

MERLIN AND MAGNUM

Truck mounted road sweepers

FAYAT



Illustrated Parts Catalogue



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ILLUSTRATED PARTS CATALOGUE

MERLIN AND MAGNUM ROAD SWEEPERS

Manual SCAZ039752

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This manual is published by the Technical Publications Department of Scarab Sweepers Limited and every effort is made to ensure that the information it contains is correct at the time of publication. Due to a policy of continuous development, however, the Company reserves the right to alter the specification and to supply when so altered without reference to illustrations and descriptions in this manual.

Parts depicted or mentioned in this manual may or may not be fitted to your particular road sweeper due to various options that may or may not have been selected and does not therefore infer that the part should be fitted to your particular road sweeper or is missing. If in doubt then please contact the Scarab Parts Department for clarification.

This manual may show pneumatic cylinders with bellows fitted. Bellows are no longer required and are now not fitted.

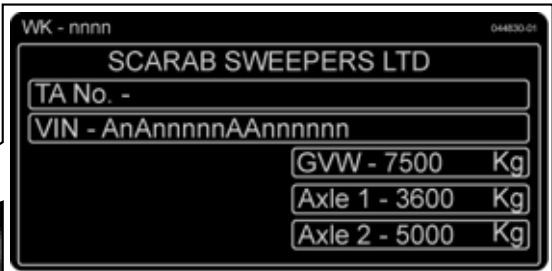
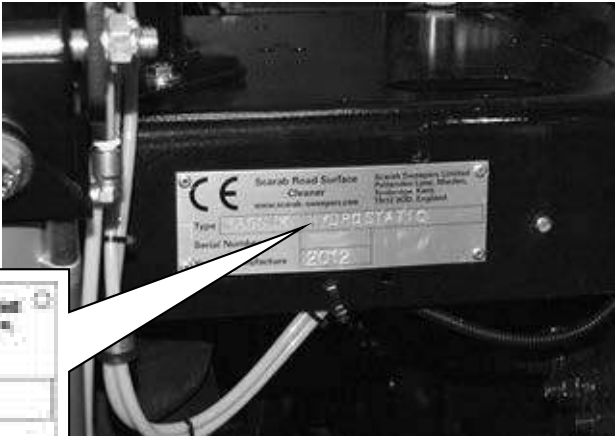
This manual does not attempt to cover every variation in assemblies such as exhaust gantries or sub-frames made necessary by differing customer requirements and also as a result of changes introduced by the chassis manufacturers.

It is imperative that the correct model is FULLY identified when procuring replacement parts for your Scarab Sweeper. To avoid unnecessary confusion and delays caused by incorrectly ordered parts, please refer to the Vehicle Serial Number (CE) Plate and take note of the vehicle's number.

 The Serial Number Plate is located on the left hand side of the subframe, on the rear face of the suction spigot mounting and inboard of the suction nozzle lifting ram.

The example shown here is for guidance only.

If the vehicle has an IVA (Individual Vehicle Approval) a Scarab VIN plate (label) will be attached to the chassis as well.



Scarab VIN plate (label), location may differ. IVA vehicles only.

This information should accompany every parts order to try and ensure that the correct parts are supplied.

How To Use This Illustrated Parts Catalogue

Introduction

This Illustrated Parts Catalogue has been organised to facilitate ease of use when identifying and procuring replacement parts for the Scarab Sweeper.

The information content has been arranged in a logical manner by creating a number of separate sections, each dealing with a specific aspect or sub-system of the machine, complete with its own table of contents. Where relevant, cross-references from one section to another have been included to enable the user to quickly navigate to the information that gives the required level of detail.

Using The Parts Lists

The breakdown structure within each parts list reflects the inter-relationship of the various components in an assembly. The order of information (L to R) is: Item/Part No./Quantity/Description.

The first item on a parts list, is the description of the main assembly in question, is shown in bold, thus:

Description of Main Assembly

The succeeding parts generally fall into two categories, namely attaching parts i.e. bolts, screws, nuts, washers etc. or breakdown parts i.e. assemblies/sub assemblies and/or piece parts.

<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
			Description of Main Assembly
1	064321	1	Sub-Assembly 1 of Main Assembly
	012356	2	. Set screw, M6 x 30mm
2	045678	1	. Sub-Sub-Assembly 1 of Sub-Assembly 1
3	032145	1	. . Piece part 1 of Sub-Sub-Assembly 1
	012356	2	. . . Set screw, M6 x 30mm
NI	032187	1	. . Piece part 2 of Sub-Sub-Assembly 1
4	045678	1	. Sub-Sub-Assembly 2 of Sub-Assembly 1
5	032142	1	. . Piece part 1 of Sub-Sub-Assembly 2
	090909	AR	. . . Hose. rubber, 1 bore
6	064321	1	Sub-Assembly 2 of Main Assembly

Item Numbers

Item numbers are used to cross-refer items from the parts lists to their associated illustrations and vice-versa, except for, attaching parts.

If the illustration of an item is superfluous, then the item number will be listed as not illustrated:- **NI**.

Part Numbers

Not every item will have a part number associated with it because it might be an assembly that is broken down into its components elsewhere or there might be different versions of that item described elsewhere.

Quantities

When a parts quantity has been marked with **AR** then this means **as required**, for example hose lengths may differ slightly due to the route taken, or you may have one or more of a given part then the quantity will be **as required** due to the quantity of said part that is fitted to a particular sweeper configuration.

PDF Version

The PDF version of this manual has been created to open like you would the real manual with two pages per view, so do not click the one page per view button otherwise it makes it harder to read. It will include bookmarks to each chapter and links to other sections from components that are also referenced elsewhere to make navigation throughout the manual easier.

Warranty Statement

1. Scarab Sweepers Limited (hereinafter referred to as the Company) warrants that (subject to the other provisions of the published Terms and Conditions of Sale - available upon request) upon delivery and for a period of 12 months from the date of actual delivery, or 2,000 running hours from the date of actual delivery whichever is sooner, the Goods correspond with their specification at the time of delivery, and will be free from defects in materials and workmanship.
 2. The Company does not warrant the condition or quality of any used Goods supplied to the Customer, or other truck manufacturers' chassis cab content or to any other component not manufactured by the Company and any such warranty claims must be submitted to the manufacturer of that component, or their locally appointed agent.
 3. The Company shall not be liable for a breach of any of the warranties in condition 1 unless the Customer gives written notice of the defect to the Company, and (if the defect is as a result of damage in transit) to the carrier, within 7 days of the time when the Customer discovers or ought to have discovered the defect.
 4. The Company shall not be liable for a breach of any of the warranties in condition 1 if the Customer makes any further use of such Goods after giving such notice, the defect arises because the Customer failed to follow the Company's oral or written instructions as to the storage, installation, commissioning, use or maintenance of the Goods or (if there are none) good trade practice, or the Customer alters or repairs such Goods without the written consent of the Company, or uses non genuine parts to effect a repair.
 5. The following consumable items listed are excluded from the Company warranty:
 - all fuel oils,
 - antifreeze,
 - all brush link pivots and bushes,
 - wander hoses, suction nozzles,
 - body inlet ducts, wearing plates,
 - high pressure water pump piston seals and valves,
 - door seals,
 - inlet seals,
 - batteries,
 - tyres,
 - all brushes,
 - lift cables,
 - rubber skirts,
 - suction nozzle wheels,
 - flap trunking,
 - deflectors,
 - screens flaps or blanking plates,
 - water pump diaphragm valves and water jets,
 - all filter strainers and elements,
 - windows,
 - glass mirrors,
 - light bulbs,
 - fuses,
 - brake lining pads,
 - auxiliary drive belts and any other part normally regarded as consumable.
 6. Any parts replaced under the terms of this warranty will be covered by the unexpired portion of this warranty.
 7. Subject to conditions 3 and 4, if any of the Goods do not conform with any of the warranties in condition 1 the Company shall at its option repair or replace such Goods (or the defective part) or refund the price of such Goods at the pro rata Contract rate provided that, if the Company so requests, the Customer shall, at the Customer's expense, remove the defective Goods or part of such Goods and return the Goods or the part of such Goods which is defective to the Company. Parts replaced under warranty will be delivered by the Company FOB port of exportation.
 8. If the Company complies with the terms contained in this statement it shall have no further liability for a breach of any of the warranties in condition 1 in respect of such Goods.
 9. No representative or agent of Scarab Sweepers Limited has the authority to add or to vary these Warranty Conditions except with the Company's official confirmation in writing from Scarab Sweepers Limited, head office in Marden Kent, England.
- For further information, please refer to the Company's Terms & Conditions of Sale. In the event of conflict between this Warranty Statement and the Company's Terms & Conditions of Sale the latter will prevail.

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Sweeping

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Side brush arrangement, left hand, without brush tilt

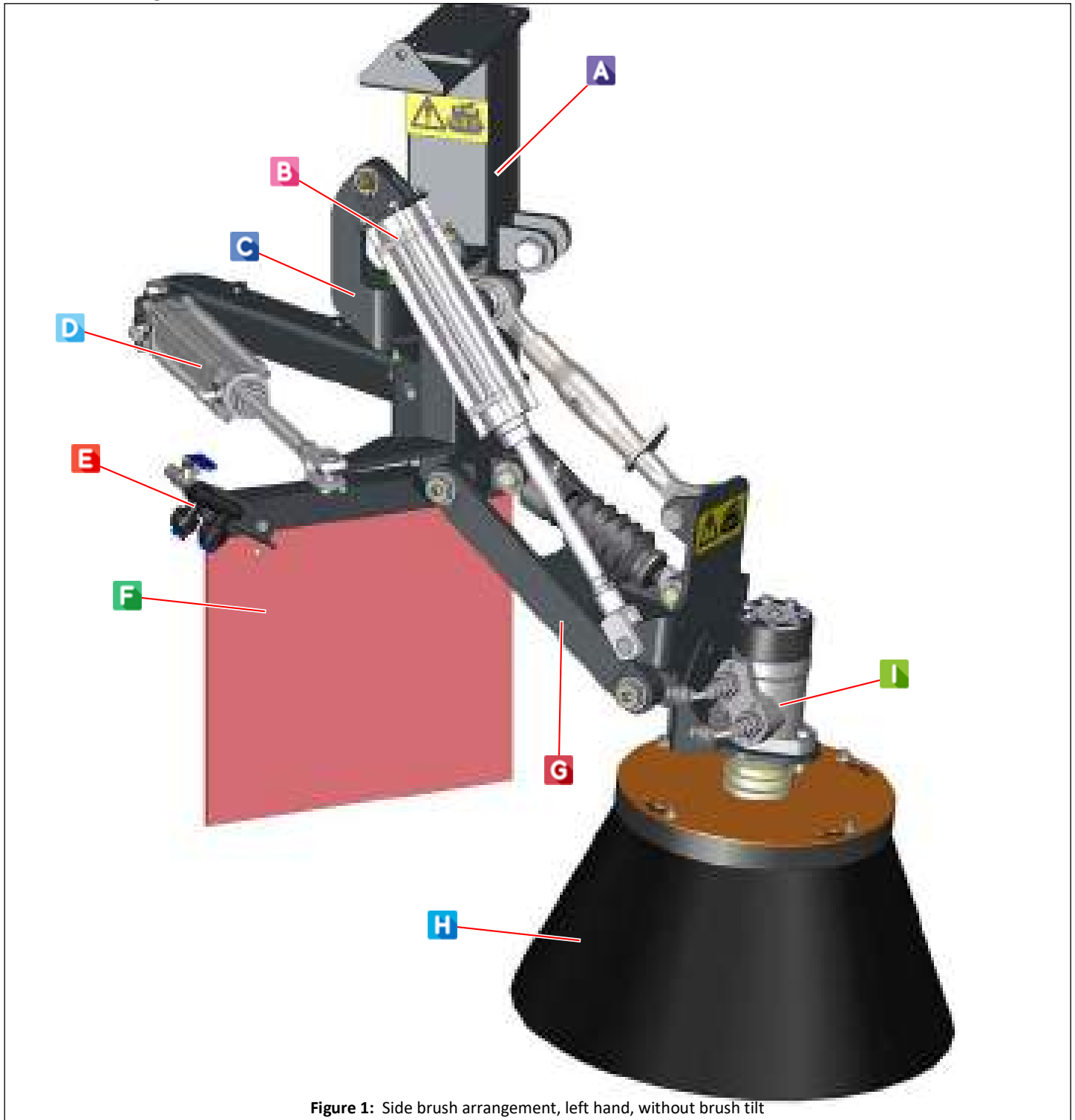


Figure 1: Side brush arrangement, left hand, without brush tilt

Item	Description	
A	Subframe leg, left hand	21, 22
B	Side brush pressure, left hand	27
C	King post, left hand	23
D	Side brush sing in/out, left hand	24
E	Side brush water spray, left hand	29
F	Side brush skirt, left hand	28
G	Side brush raise/lower, left hand	30,31
H	Side brush	61
I	Side brush drive motor, left hand	38

Side brush arrangement, left hand, with brush tilt

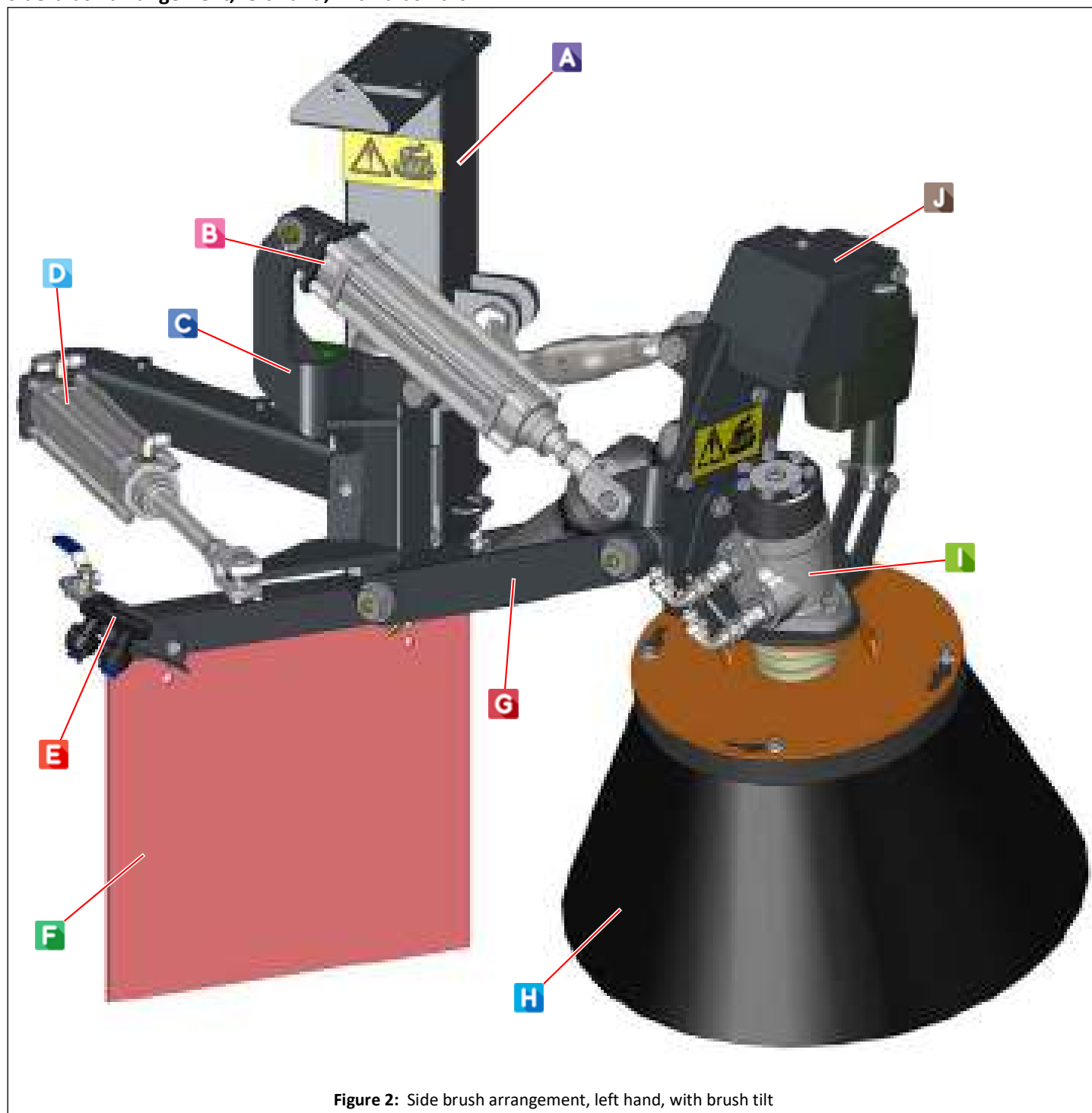
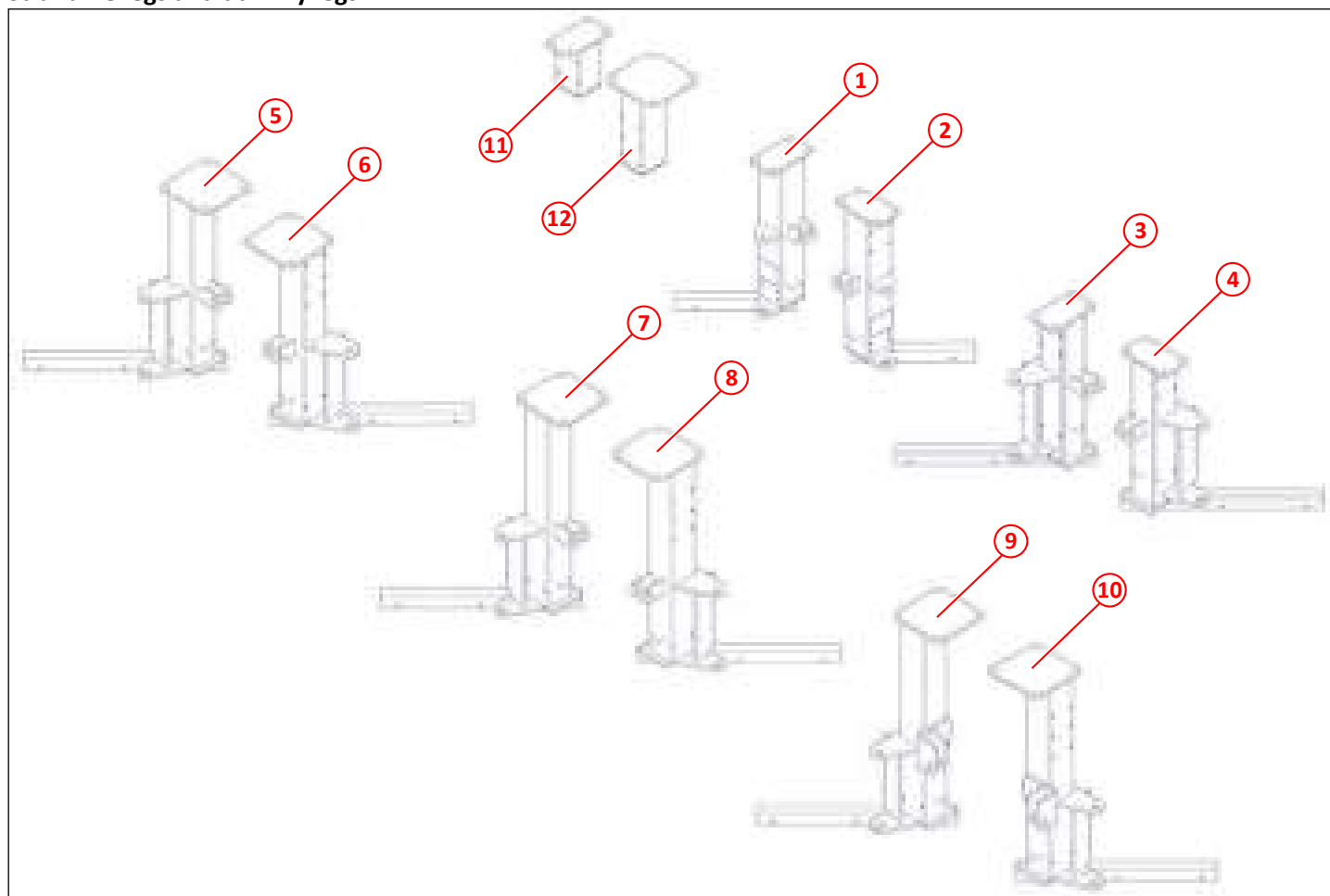


Figure 2: Side brush arrangement, left hand, with brush tilt

Item	Description	
A	Subframe leg, left hand	21, 22
B	Side brush pressure, left hand	27
C	King post, left hand	23
D	Side brush swing in/out, left hand	24
E	Side brush water spray, left hand	29
F	Side brush skirt, left hand	28
G	Side brush raise/lower, left hand	30,31
H	Side brush	61
I	Side brush drive motor, left hand	38
J	Brush tilt mechanism, left hand	34,36,37,40

Subframe legs and dummy legs

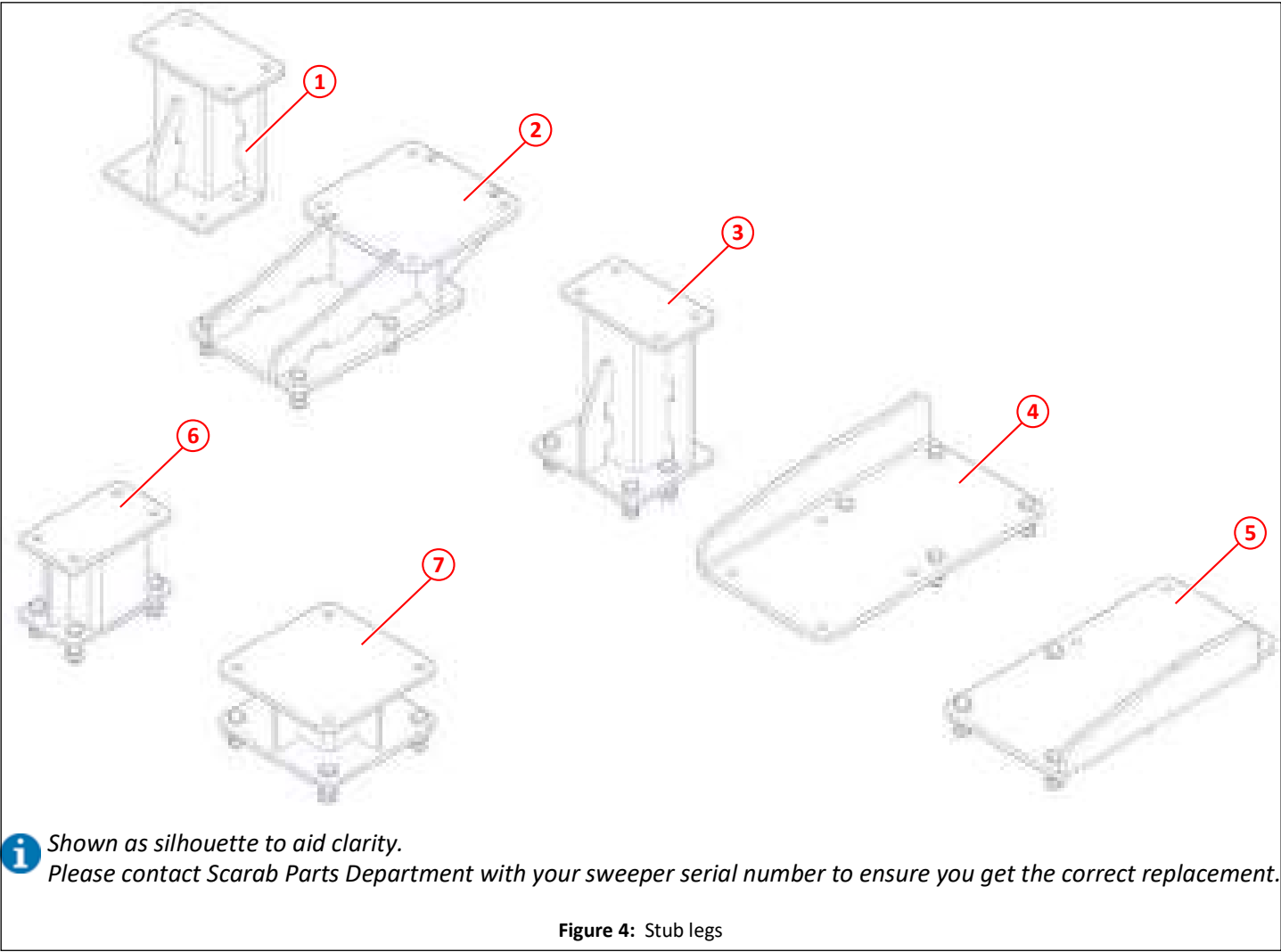


i Shown as silhouette to aid clarity.
Please contact Scarab Parts Department with your sweeper serial number to ensure you get the correct replacement.

Figure 3: Subframe legs and dummy legs

Item	Part No	Qty	Description	
1	SCA027132	1	Subframe leg, standard, left hand - Merlin	
2	SCA027133	1	Subframe leg, standard, right hand - Merlin	
3	SCA030050	1	Subframe leg, large brush, left hand - Merlin	
4	SCA030049	1	Subframe leg, large brush, right hand - Merlin	
5	SCA024247	1	Subframe leg, universal, left hand - Magnum	
6	SCA024248	1	Subframe leg, universal, right hand - Magnum	
7	SCA030152	1	Subframe leg, +95 mm, left hand - Magnum	
8	SCA030153	1	Subframe leg, +95 mm, right hand - Magnum	
9	SCA030154	1	Subframe leg, left hand - Magnum Plus	
10	SCA030155	1	Subframe leg, right hand - Magnum Plus	
11	SCA038501	1	Dummy leg - Merlin	
12	SCA038500	1	Dummy leg - Magnum	

Stub legs



Item	Part No	Qty	Description	
1	SCA047777	1	Stub leg 180 mm, long 50 mm offset	
2	SCA036826	1	Stub leg 95 mm long, 200 mm offset	
3	SCA037920	1	Stub leg 220 mm long, 50 mm offset	
4	SCA038811	1	Stub leg 10 mm, 200 mm offset, right hand	
5	SCA039384	1	Stub leg 10 mm, 200 mm offset, left hand	
6	SCA031355	1	Stub leg 120mm long	
7	SCA031415	1	Stub leg 95mm long	

King post, left hand, side brush

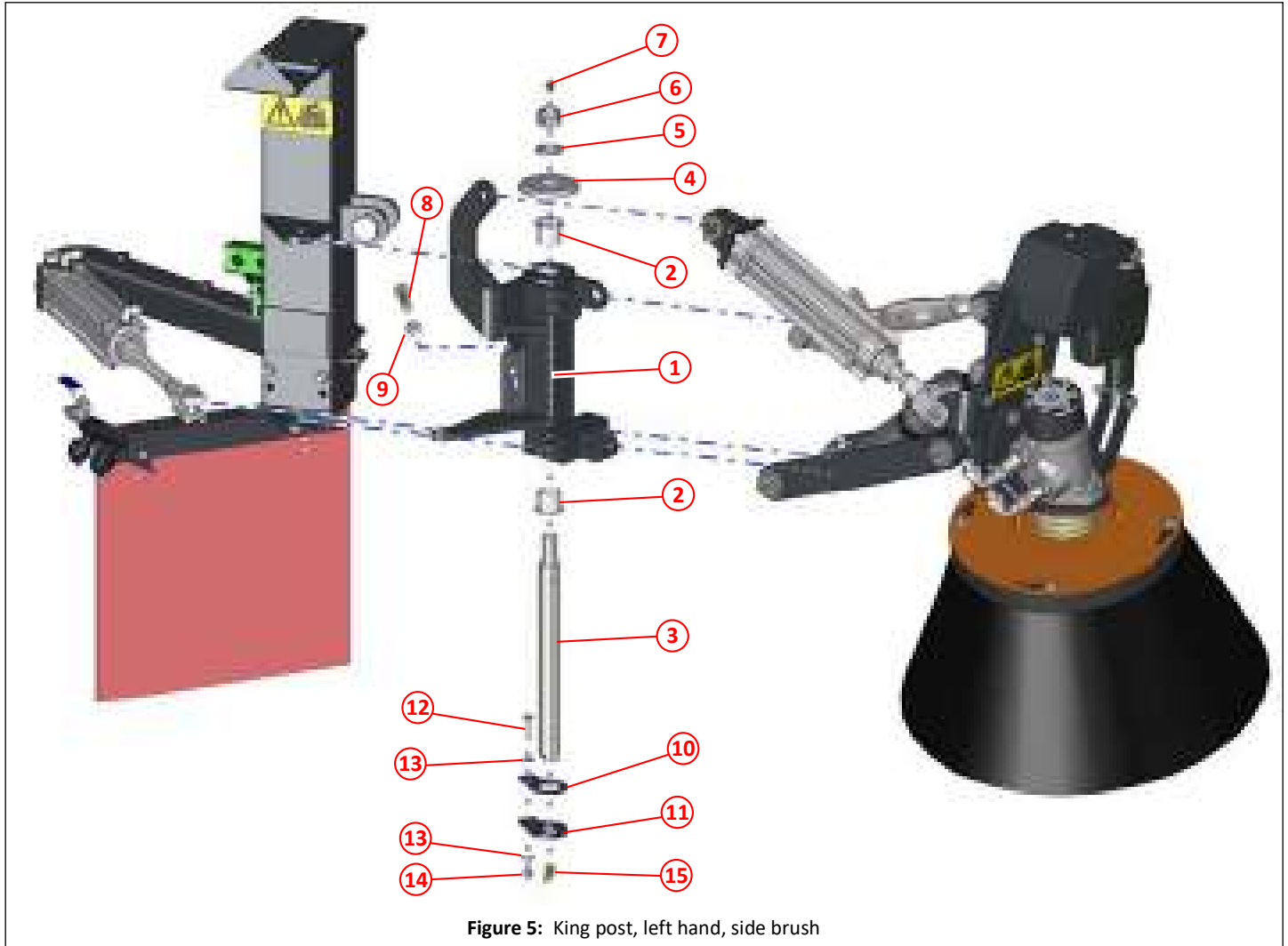


Figure 5: King post, left hand, side brush

Item	Part No	Qty	Description
1	SCA023120	1	King Post, left hand side brush
2	SCA013012	2	Bush
3	SCA013007	1	King pin
4	SCA013013	1	Dirt shield
5	SCA011102	1	Plain washer M20
6	SCA011082	1	Nyloc nut M20
7	SCA010903	1	Grease nipple, 1/8" BSP, straight
8	SCA000521	1	Setscrew M12 x 70 BZP
9	SCA011076	1	Full nut M12
10	SCA048997	1	King pin locking plate, thin
11	SCA048998	1	King pin locking plate, thick
12	SCA000020	1	Setscrew M6 x 30
13	SCA000254	2	Plain washer M6, stainless steel
14	SCA000253	1	Nyloc nut M6, stainless steel
15	SCA010901	1	Grease nipple, 1/8", 135°

Swing in/out, left hand, side brush

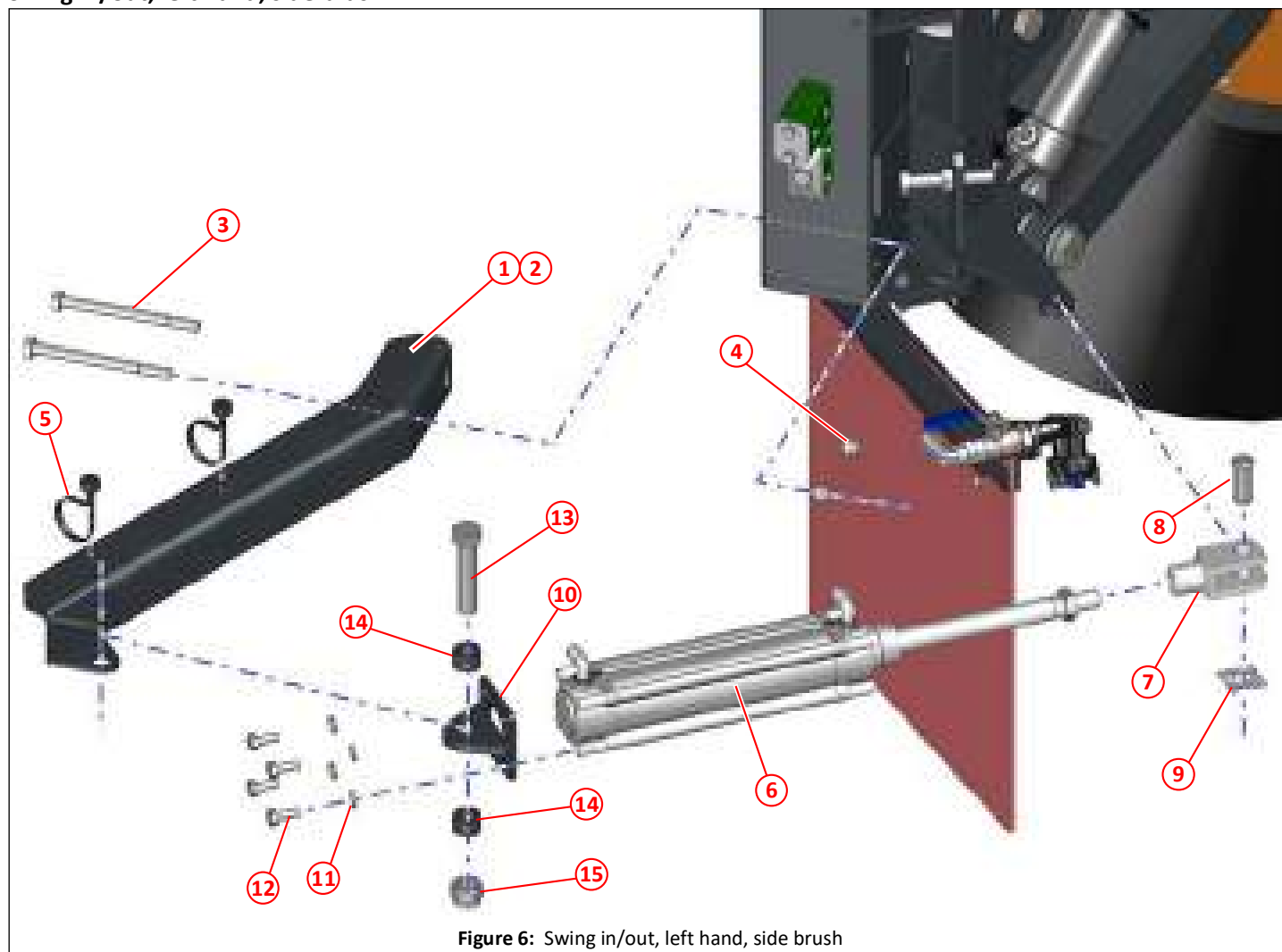


Figure 6: Swing in/out, left hand, side brush

Item	Part No	Qty	Description
1	SCA021519	1	Arm, air cylinder, left hand - <i>Merlin</i>
2	SCA021721		Arm, air cylinder, left hand - <i>Magnum</i>
3	SCA011407	2	Bolt HT M10 x120
4	SCA011075	2	Nyloc nut M10
5	SCA005061	2	Cable tie, round head
6	SCA020298	1	Pneumatic cylinder 50 x 160
7	SCA020299	1	Clevis pneumatic M16 x 1.5
8	SCA022673	1	Clevis pin
9	SCA022674	1	Clip, retaining M16
10	SCA020534	1	Ram end
11	SCA011093	4	Spring washer M8
12	SCA011010	4	Setscrew HT M8 x 20
13	SCA011260	1	Bolt HT M16 x 70
14	SCA011000	2	Hose 5/8", fuel SAE100R6 - (Cut to 15mm)
15	SCA011060	1	Nyloc nut M16

Hydraulic hose tidy, left hand - *Merlin*

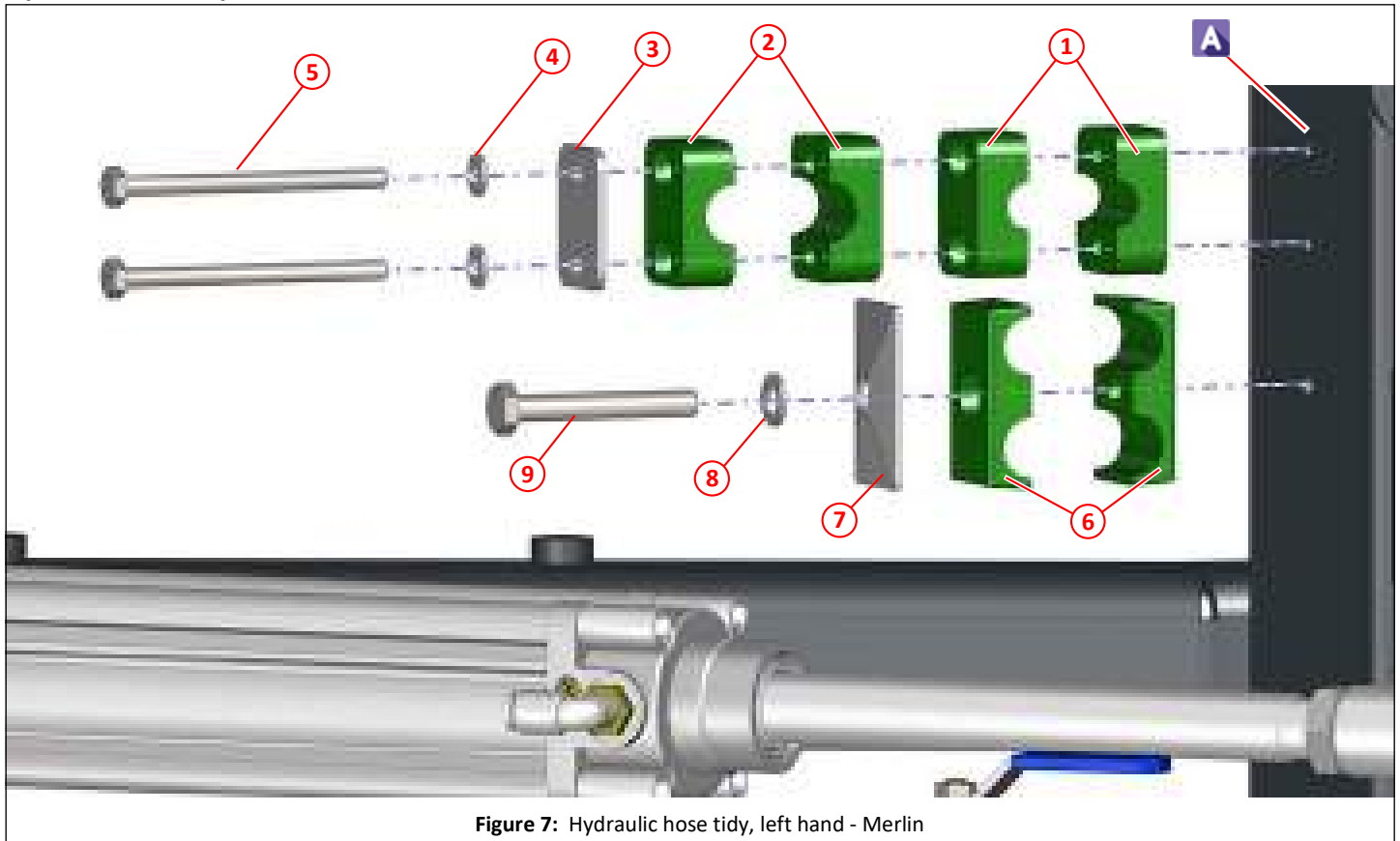


Figure 7: Hydraulic hose tidy, left hand - Merlin

Item	Part No	Qty	Description	
A			Subframe leg, left hand	21
1	SCA031316	2	Pipe clamp block 1/4" hose, single	
2	SCA002163	2	Pipe clamp block ø17.2, single	
3	SCA031317	1	Clamp plate flat	
4	SCA011091	2	Spring washer M6	
5	SCA000221	2	Bolt HT M6 x 80	
6	SCA031318	2	Pipe clamp block 3/8" hose, twin	
7	SCA031319	1	Clamp plate flat	
8	SCA011093	1	Spring washer M8	
9	SCA000009	1	Bolt HT M8 x 55	

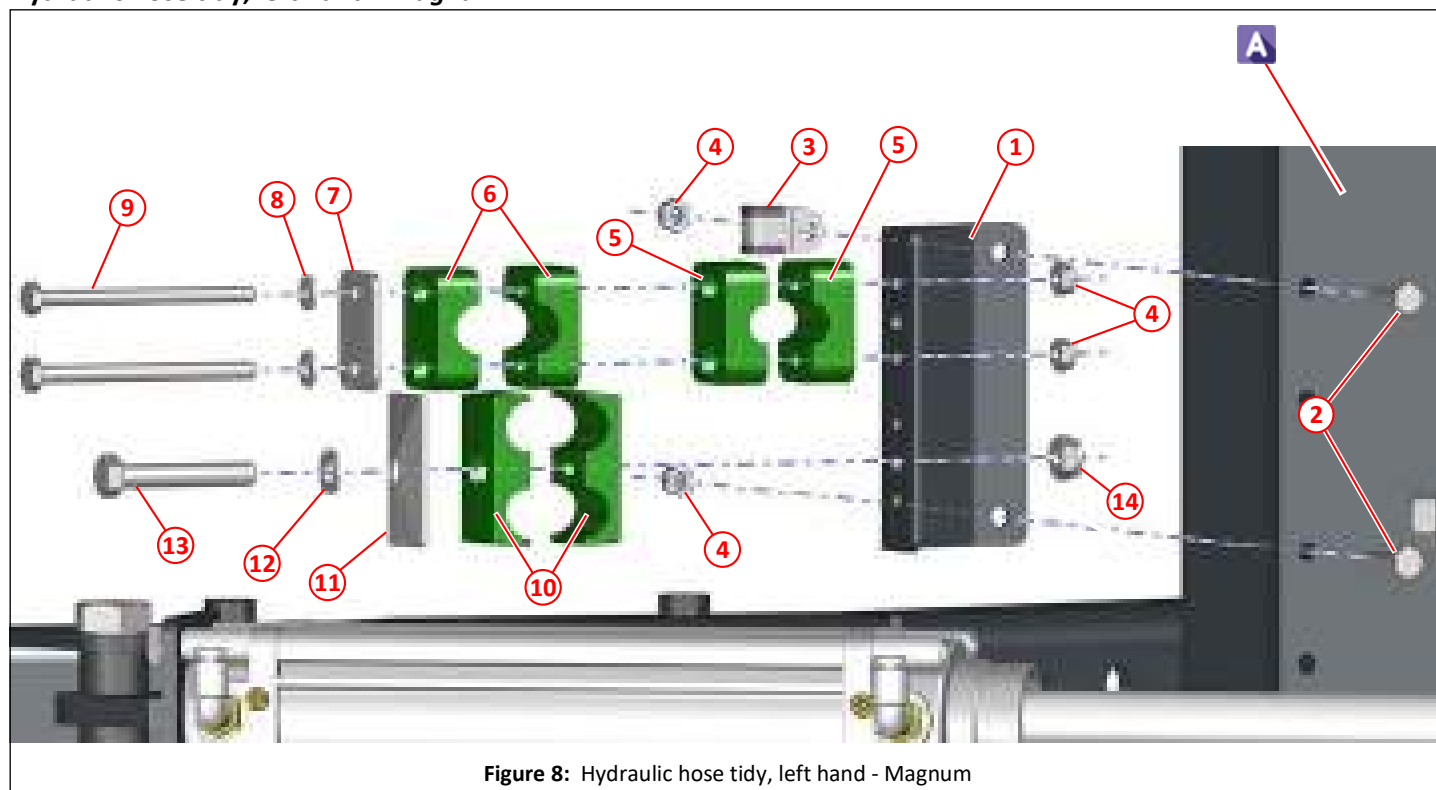
Hydraulic hose tidy, left hand - *Magnum*

Figure 8: Hydraulic hose tidy, left hand - Magnum

Item	Part No	Qty	Description	
A			Subframe leg, left hand	21
1	SCA031306	1	Clamp support	
2	SCA011087	2	Setscrew HT M6 x 25	
3	SCA021914	1	Clip ø12, rubber, sealed	
4	SCA011071	4	Nyloc nut M6	
5	SCA031316	2	Pipe clamp block 1/4" hose, single	
6	SCA002163	2	Pipe clamp block ø17.2, single	
7	SCA031317	1	Clamp plate flat	
8	SCA011091	2	Spring washer M6	
9	SCA000221	2	Bolt HT M6 x 80	
10	SCA031318	2	Pipe clamp block 3/8" hose, twin	
11	SCA031319	1	Clamp plate flat	
12	SCA011093	1	Spring washer M8	
13	SCA000009	1	Bolt HT M8 x 55	
14	SCA011073	1	Nyloc nut M8	

Side brush pressure, left hand

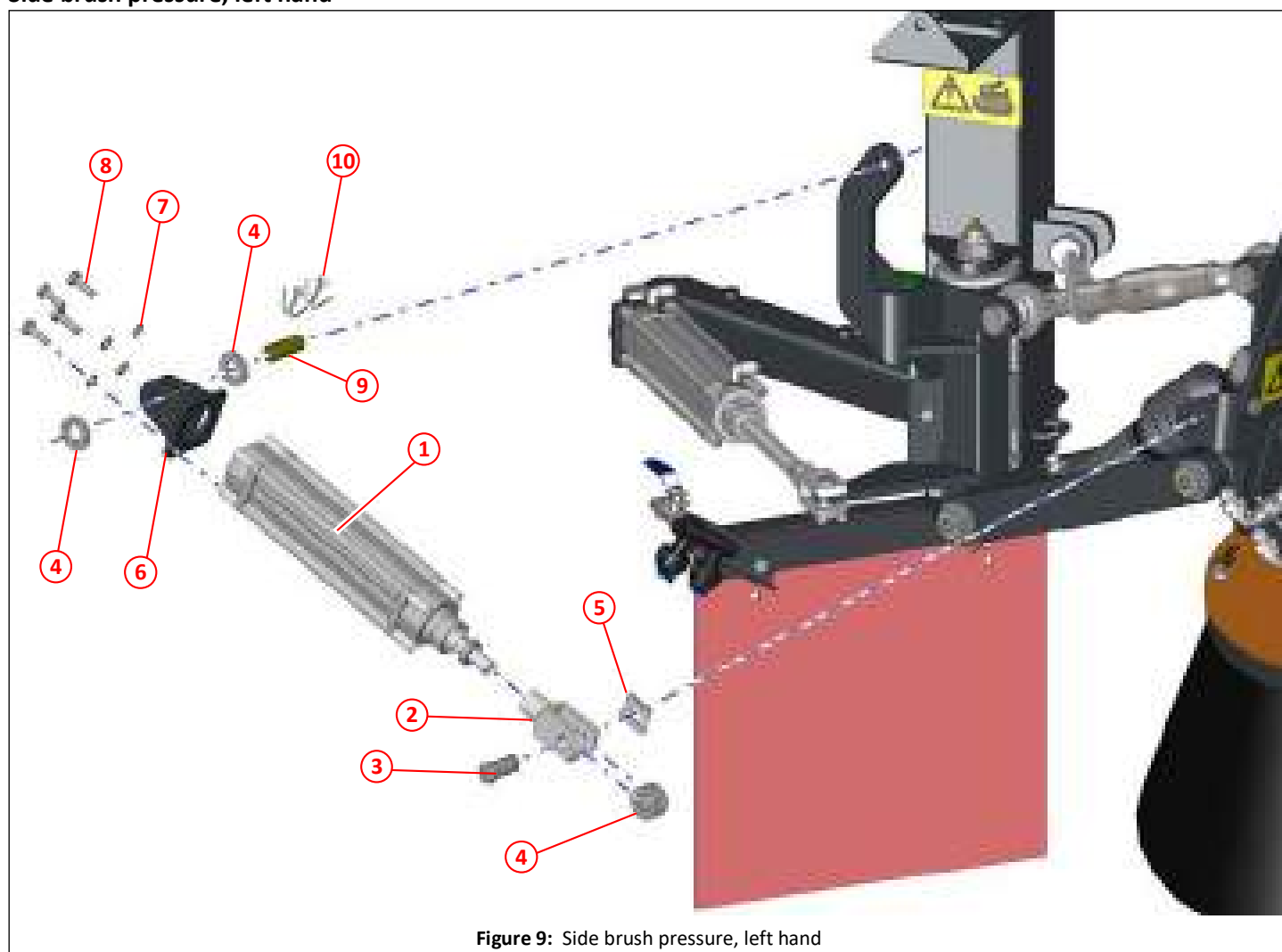


Figure 9: Side brush pressure, left hand

Item	Part No	Qty	Description	
1	SCA020298	1	Pneumatic cylinder 50 x 160	
2	SCA020299	1	Clevis pneumatic M16 x 1.5	
3	SCA022673	1	Clevis pin	
4	SCA011135	4	Plain washer M16	
5	SCA022674	1	Clip, retaining M16	
6	SCA023122	1	Pivot, pneumatic cylinder ø50	
7	SCA011093	4	Spring washer M8	
8	SCA011011	4	Setscrew HT M8x25	
9	SCA023123	1	Pin ø16 x 46	
10	SCA011122	2	Split pin 3/16" x 1 1/2"	

Skirt, side brush, left hand

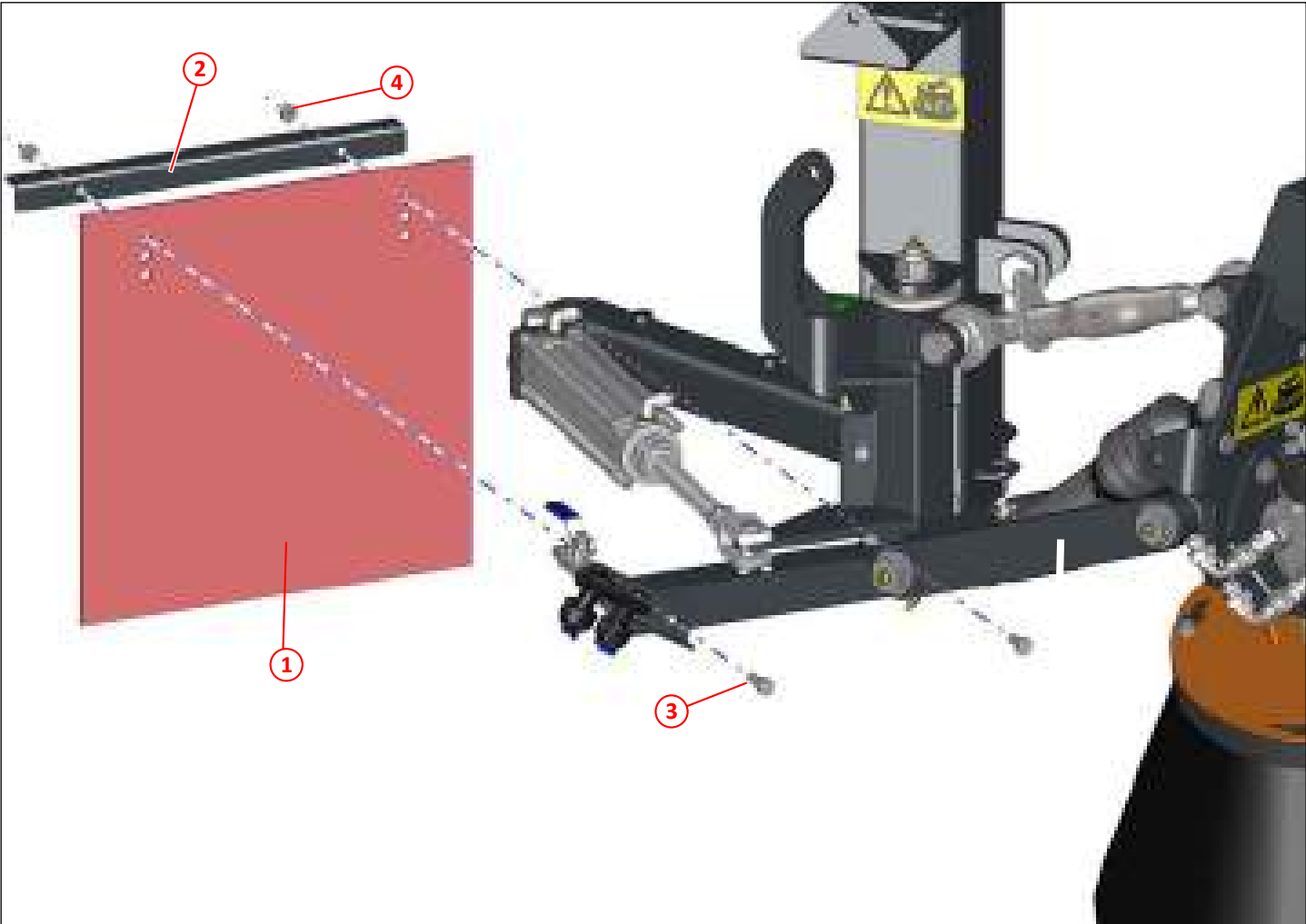


Figure 10: Skirt, side brush, left hand

Item	Part No	Qty	Description	
1	SCA012216	1	Skirt, side brush - 2 pitch, heavy duty	
2	SCA012217	1	Skirt clamp	
3	SCA011011	2	Setscrew HT M8 x 25	
4	SCA011073	2	Nyloc nut M8	

Water spray, side brush, left hand

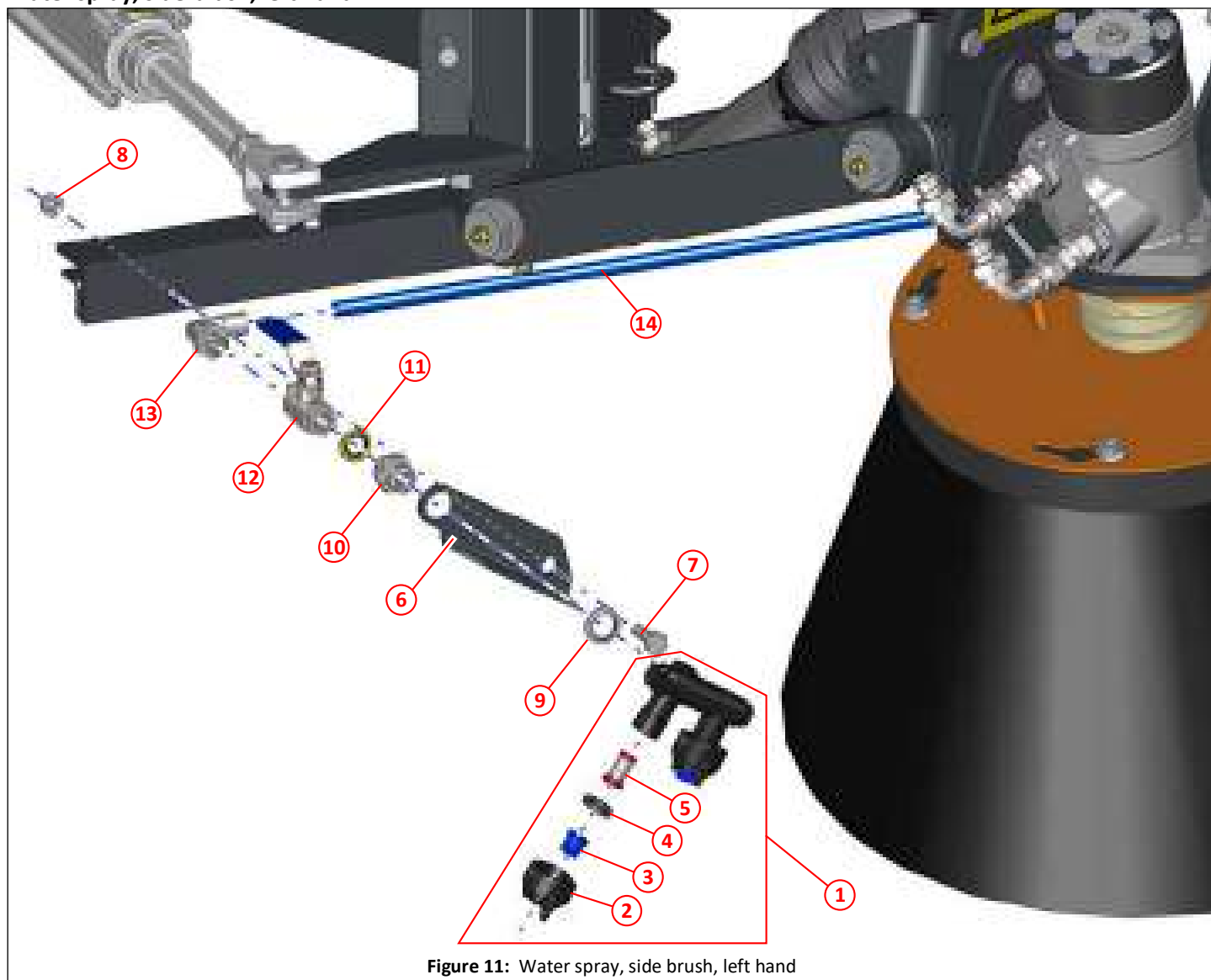


Figure 11: Water spray, side brush, left hand

Item	Part No	Qty	Description
1	SCA036044	1	Double swivel nozzle holder assembly
2	SCA030746	2	Cone nozzle cap
3	SCA030748	2	Jet (blue)
4	SCA030636	2	Rubber washer
5	SCA030633	2	Filter, 100 mesh
6	SCA036042	1	Nozzle bracket
7	SCA011011	1	Setscrew HT M8 x 25
8	SCA011073	1	Nyloc nut M8
9	SCA011153	1	Dowty seal 3/8" BSP
10	SCA011199	1	Adapter 3/8" x 1/4" BSP
11	SCA011152	1	Dowty seal 1/4" BSP
12	SCA011743	1	Valve 1/4" ball
13	SCA047602	1	Elbow, push-in 10mm x 1/4" BSP
14	SCA041031	1	ø10mm nylon pipe, blue

Brush link, left hand

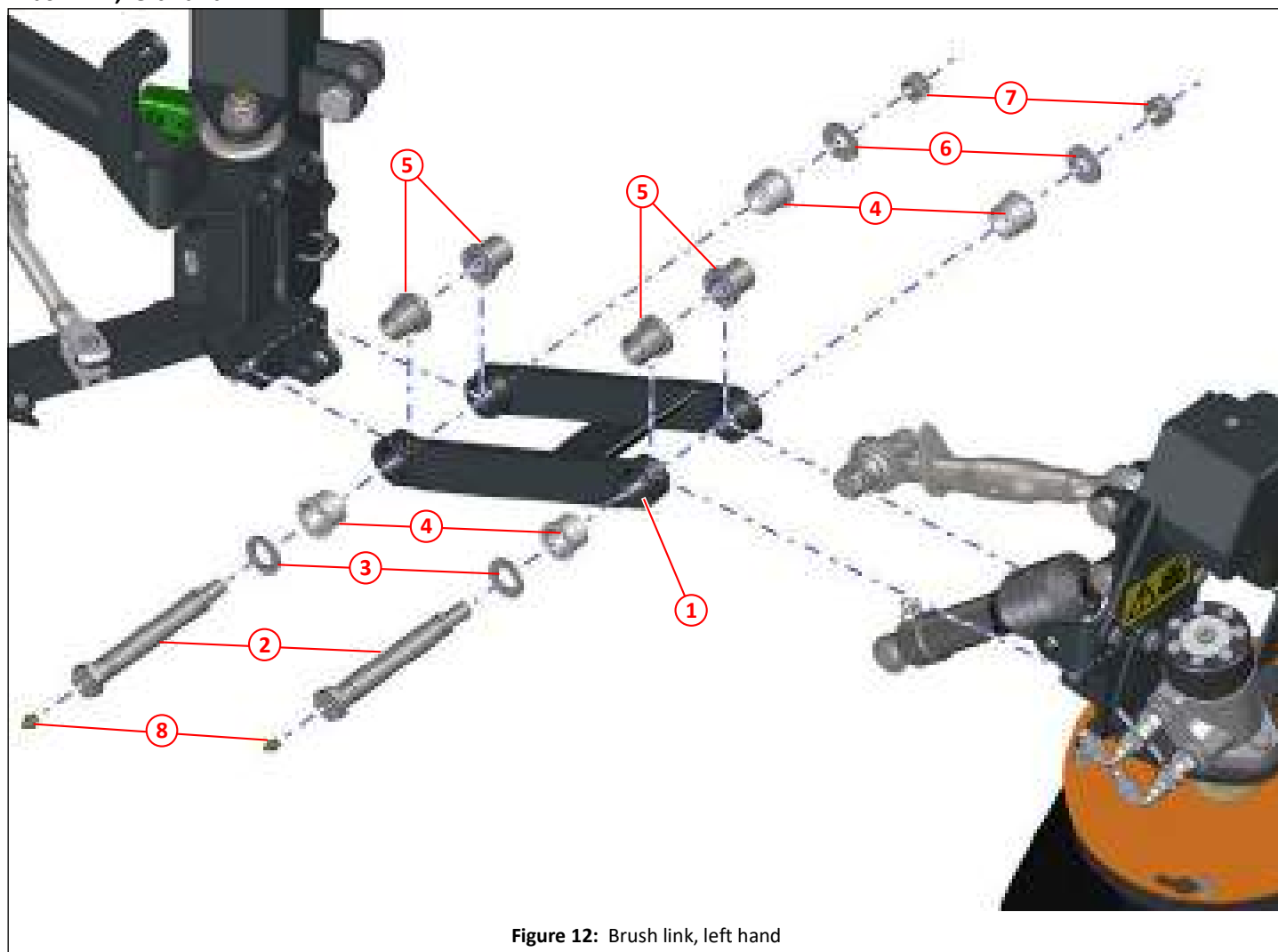
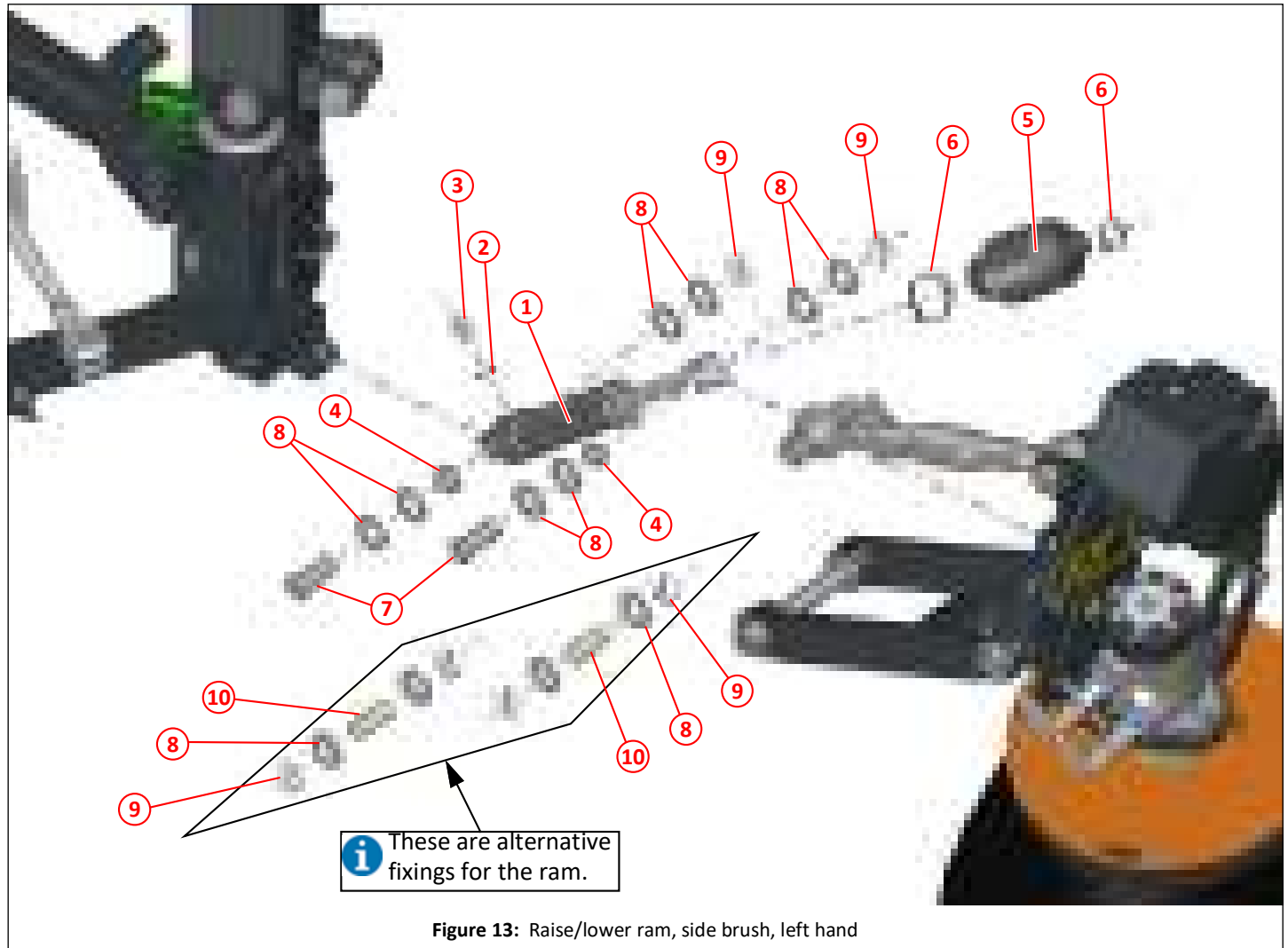


Figure 12: Brush link, left hand

Item	Part No	Qty	Description	
1	SCA014801	1	Brush link, side brush	
2	SCA014796	2	Pivot bolt, side brush	
3	SCA014798	2	Washer $\varnothing 24 \times \varnothing 40 \times 3$	
4	SCA013012	4	Bush	
5	SCA014799	4	Spacer sleeve, side brush	
6	SCA014797	2	Washer $\varnothing 17 \times \varnothing 40 \times 3$	
7	SCA011060	2	Nyloc nut M16	
8	SCA010903	2	Grease nipple, 1/8" BSP, straight	

Raise/lower ram, side brush, left hand



Item	Part No	Qty	Description
1	SCA010009	1	Ram 240/340
2	SCA011152	1	Dowty seal 3/8" BSP
3	SCA012539	1	Adapter, restrictor No 5, 1/4" x 1/4" BSP, 1/32" white
4	SCA024682	2	Bush $\phi 25 \times \phi 20 \times 10$
5	SCA014473	1	Bellows, ram
6	SCA005018	2	Cable tie, black, X80R
7	SCA046750	2	Clevis pin, $\phi 20 \times 50$
8	SCA011102	12	Plain washer M20
9	SCA011122	6	Split pin 3/16" x 1 1/2"
10	SCA010067	2	Pin, $\phi 20 \times 50$

i Please note the quantities required for items 7, 8, 9, and 10 will be dependant on which of the fixings are used. The quantities shown here are the totals shown and will differ from what is required.

Top link, side brush, left hand

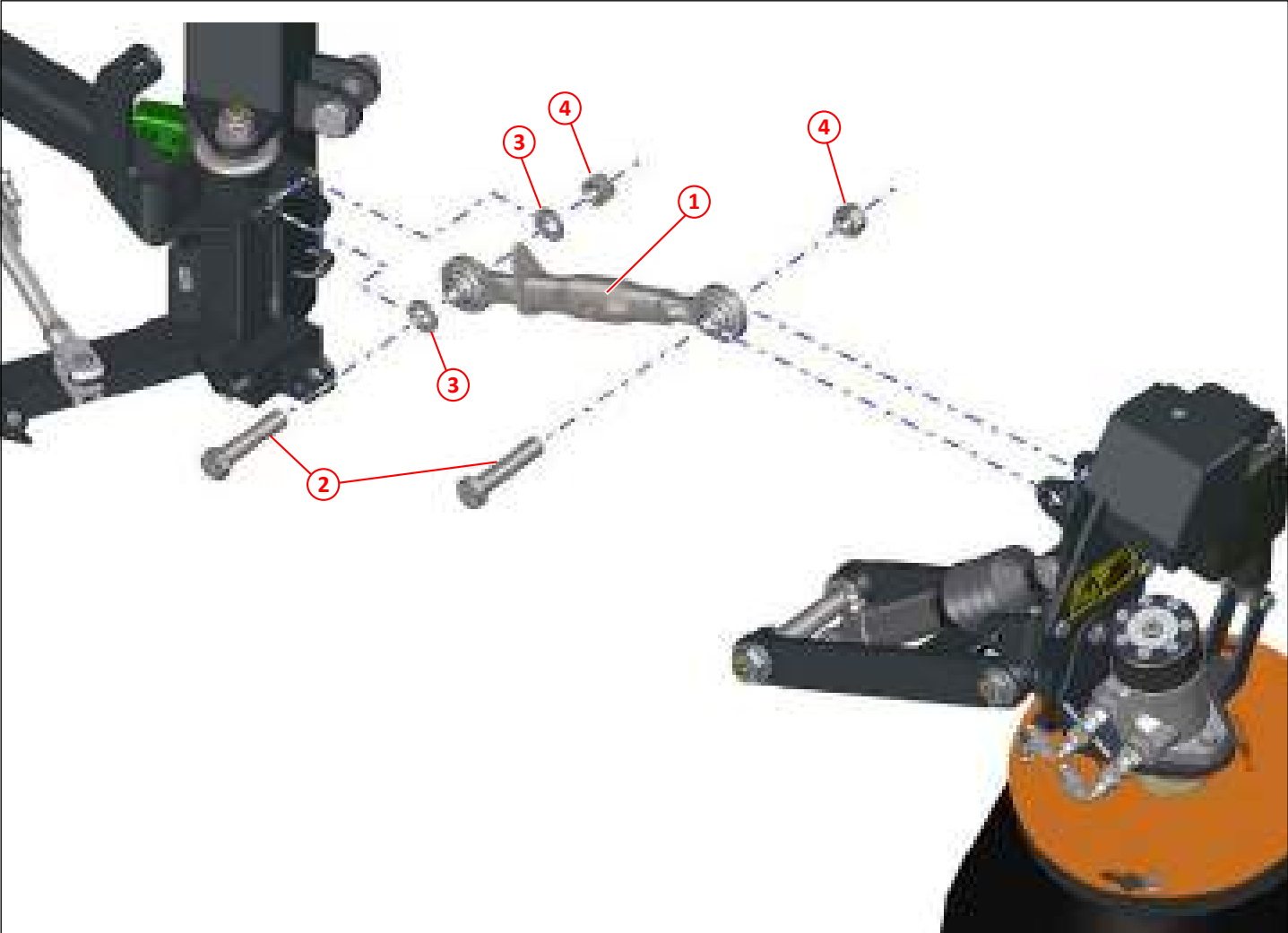


Figure 14: Top link, side brush, left hand

Item	Part No	Qty	Description	
1	SCA013011	1	Top link	
2	SCA011140	2	Bolt HT M18 x 90	
3	SCA011138	2	Plain washer M18	
4	SCA011139	2	Nyloc nut M18	

Swivel plate, side brush, left hand

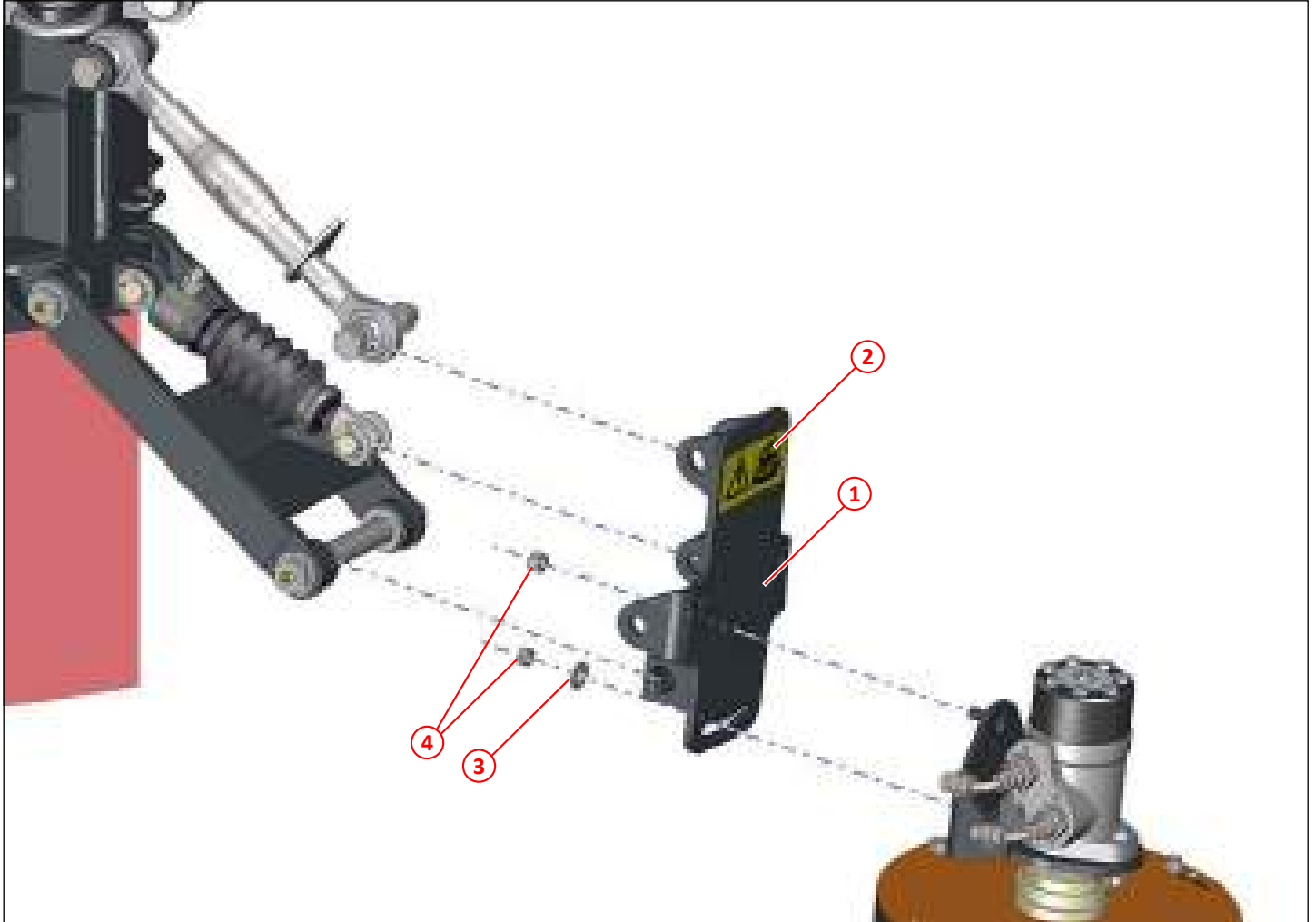


Figure 15: Swivel plate, side brush, left hand

Item	Part No	Qty	Description	
1	SCA023121	1	Swivel plate side brush	
2	SCA022383	1	Label-Brush warning	
3	SCA011094	1	Plain washer M10	
4	SCA011075	2	Nyloc nut M10	

Swivel plate, side brush with brush tilt, left hand

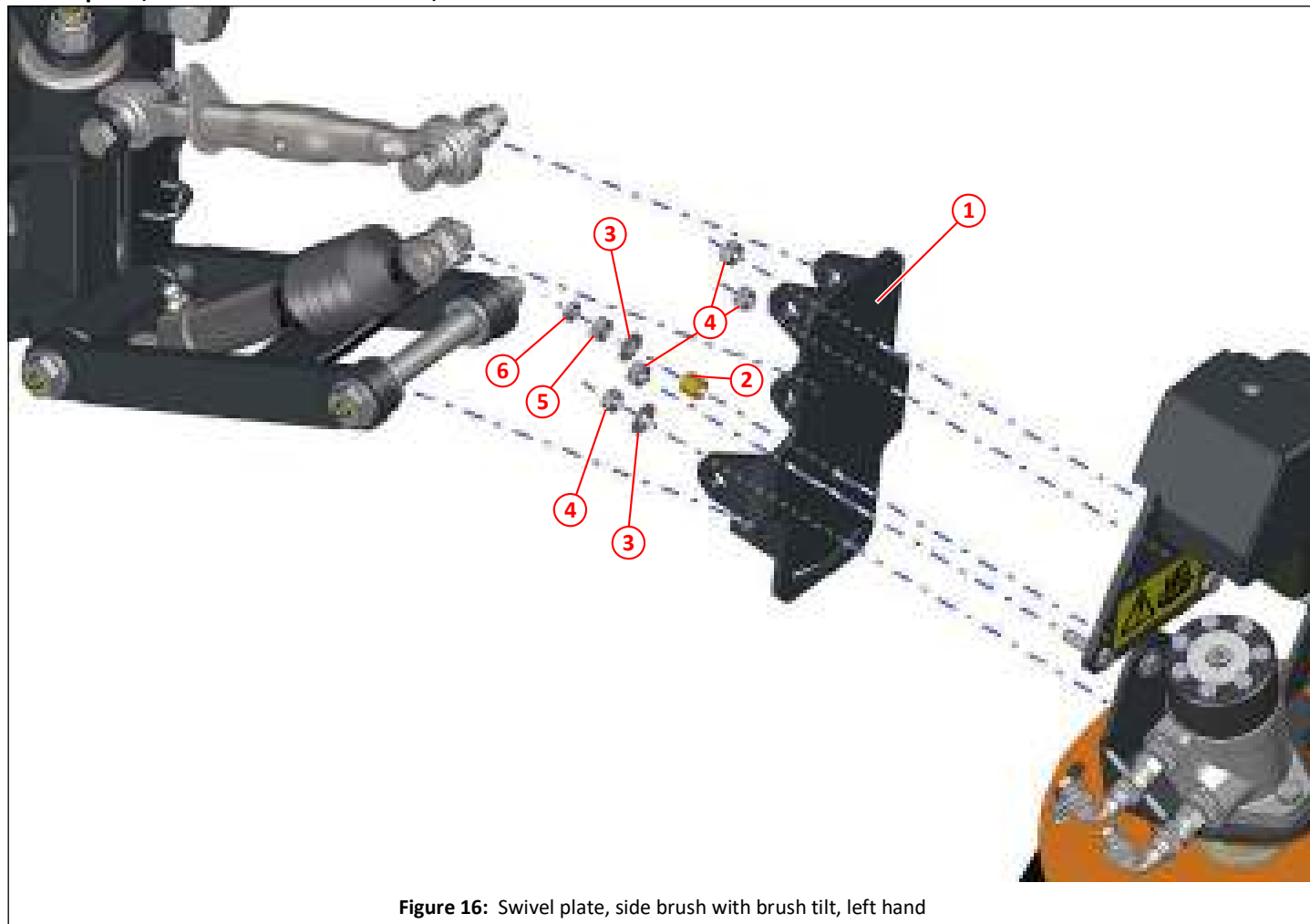


Figure 16: Swivel plate, side brush with brush tilt, left hand

Item	Part No	Qty	Description	
1	SCA046284	1	Swivel plate side brush with brush tilt	
2	SCA046282	1	Bush $\varnothing 16 \times \varnothing 10.5 \times 15$	
3	SCA011094	2	Plain washer M10	
4	SCA011075	4	Nyloc nut M10	
5	SCA011074	1	Full nut M10	
6	SCA000506	1	Half nut M10	

Motor mounting, side brush, left hand

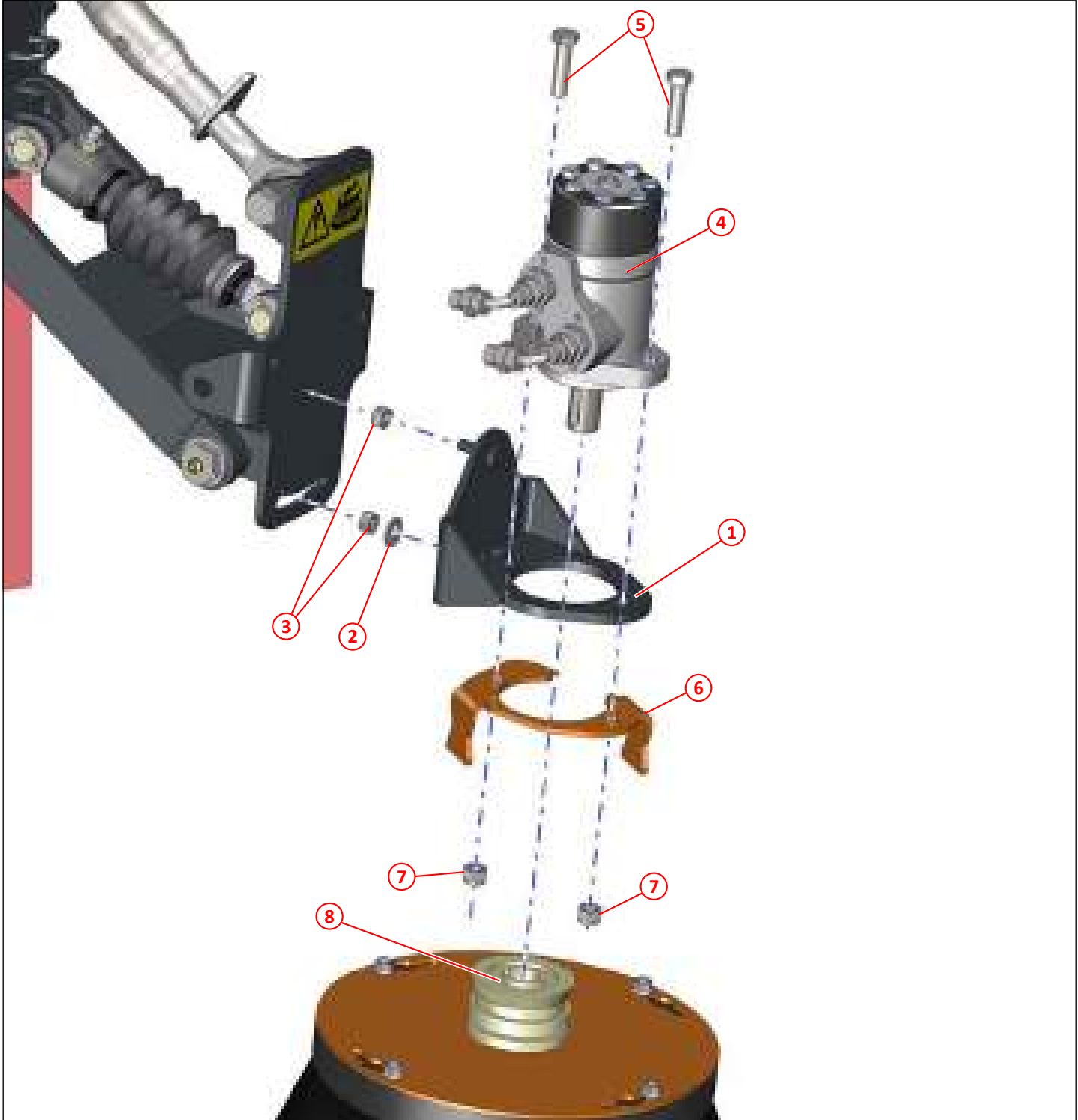


Figure 17: Motor mounting, side brush, left hand

Item	Part No	Qty	Description	
1	SCA047485	1	Motor bracket, side brush, bolt hub	
2	SCA011094	1	Plain washer M10	
3	SCA011075	2	Nyloc nut M10	
4	SCA010749	1	Motor 3597 200cc	38
5	SCA011054	2	Setscrew HT M12 x45	
6	SCA048816	1	Tape cutter left hand	
7	SCA011077	2	Nyloc nut M12	
8	SCA047482	1	Plate hub	61

Side brush tilt plate, left hand

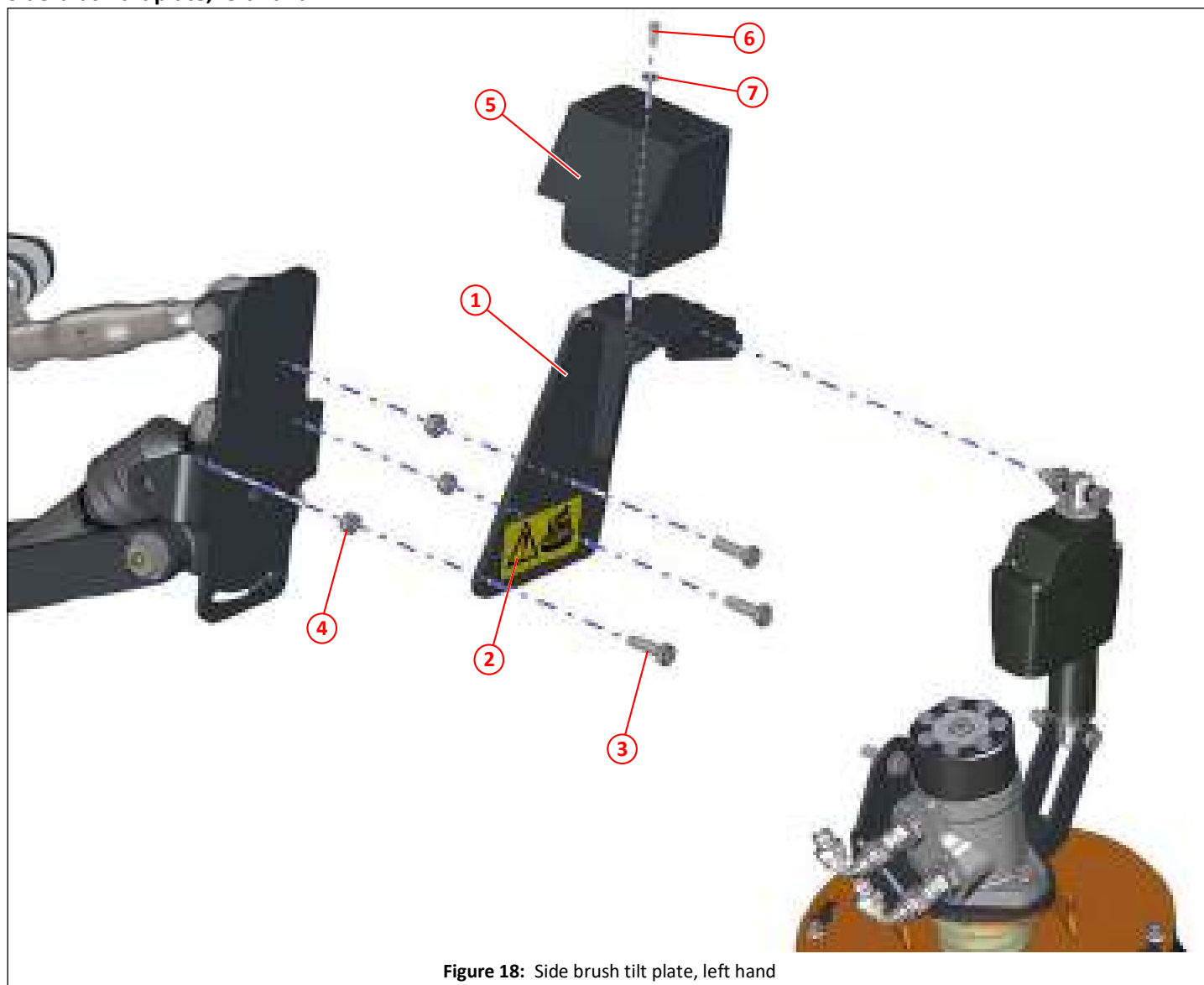


Figure 18: Side brush tilt plate, left hand

Item	Part No	Qty	Description	
1	SCA046279	1	Brush tilt plate, left hand	
2	SCA022383	1	Label, Brush warning	
3	SCA011033	3	Setscrew HT M10 x 35	
4	SCA011075	3	Nyloc nut M10	
5	SCA046491	1	Actuator cover, brush tilt, left hand	
6	SCA000373	1	Socket dome head screw M6 x 16, stainless steel	
7	SCA000254	1	Plain washer M6, stainless steel	

Motor mount, side brush with brush tilt, left hand

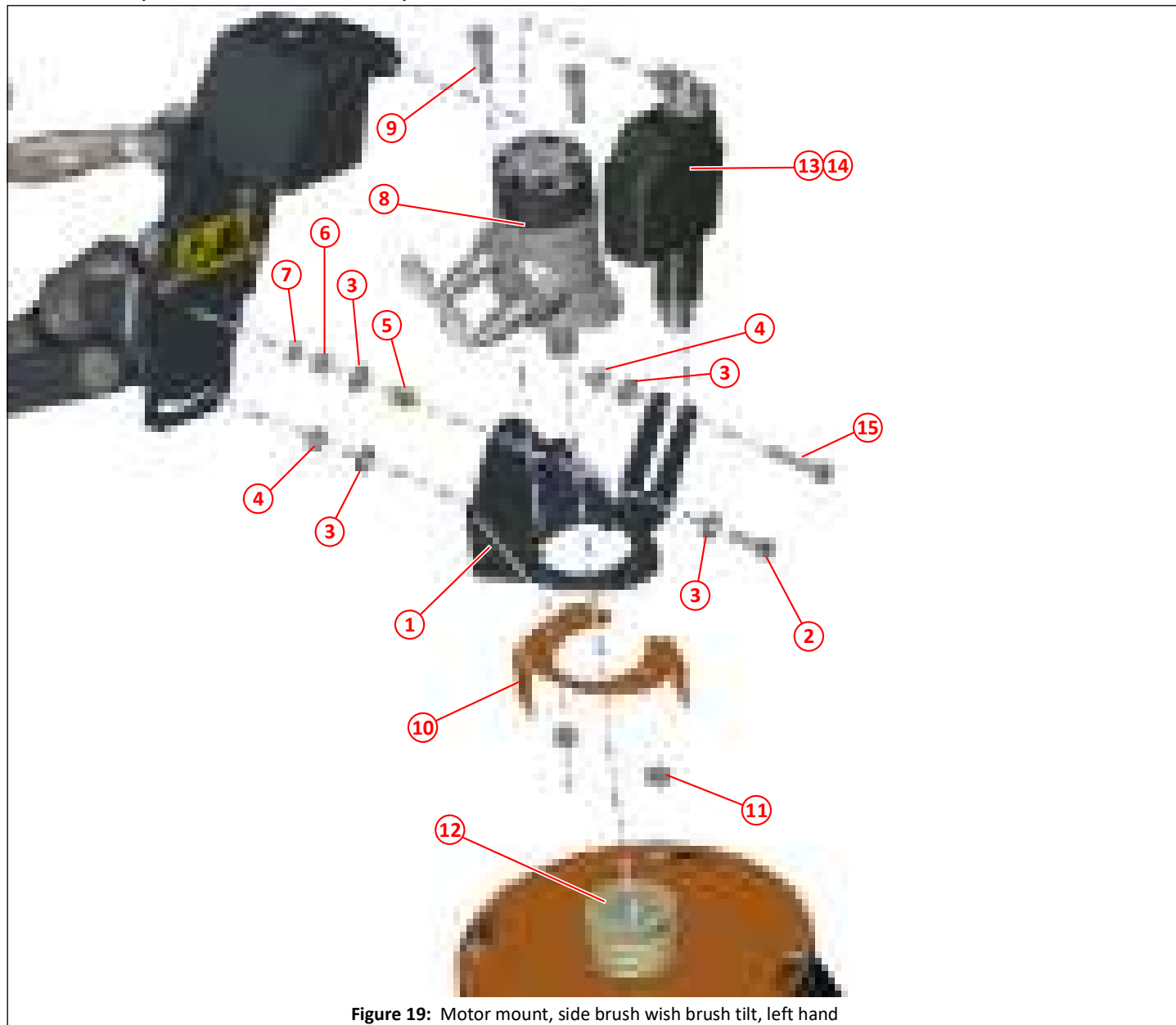


Figure 19: Motor mount, side brush wish brush tilt, left hand

Item	Part No	Qty	Description	
1	SCA047553	1	Motor bracket tilting side brush, bolt hub, left hand	
2	SCA011033	1	Setscrew HT M10 x35	
3	SCA011094	4	Plain washer M10	
4	SCA011075	2	Nyloc nut M10	
5	SCA046282	1	Bush ø16 x ø10.5 x 15	
6	SCA011074	1	Full nut M10	
7	SCA000506	1	Half nut M10	
8	SCA010749	1	Motor 3597 200cc	38
9	SCA011054	2	Setscrew HT M12 x 45	
10	SCA048816	1	Tape cutter left hand	
11	SCA011077	2	Nyloc nut M12	
12	SCA047482	1	Plate hub	61
13	SCA047660	1	Brush tilt actuator (24V)	
14	SCA046270	1	Brush tilt actuator (12V)	
15	SCA011036	1	Bolt HT M10 x 60	

Motor, side brush, left hand

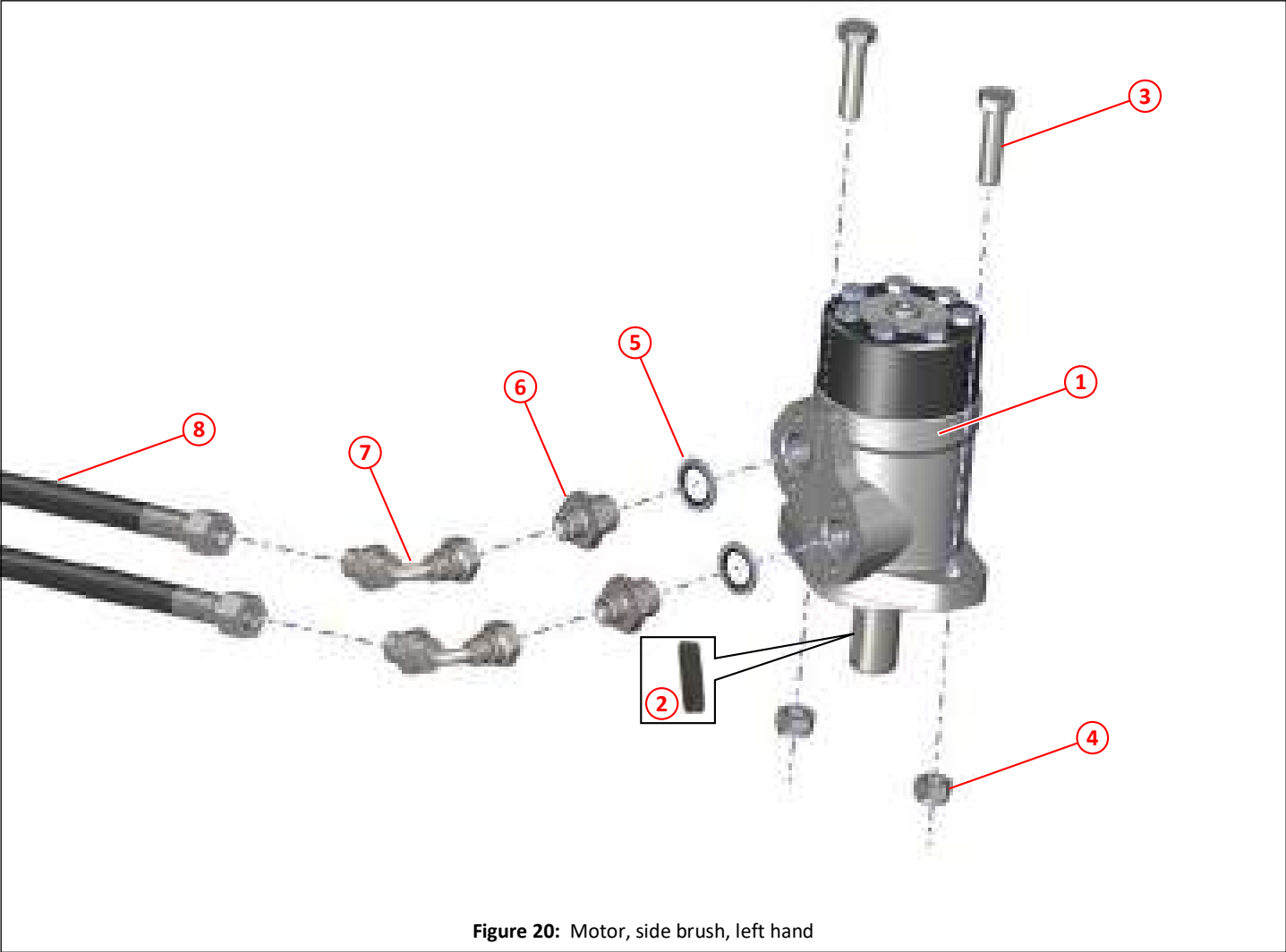


Figure 20: Motor, side brush, left hand

Item	Part No	Qty	Description	
1	SCA010749	1	Motor 3597 200cc	
2	SCA011515	1	Key for item 1	
3	SCA011054	2	Setscrew HT M12 x 45	
4	SCA011077	2	Nyloc nut M12	
5	SCA011154	2	Dowty seal 1/2" BSP	
6	SCA011167	2	Adapter 1/2" x 3/8" BSP	
7	SCA011221	2	Swept elbow ³ / ₈ " BSP	
8	SCA011307	2	Hose 3/8" x 1300 long, 3/8" BSP straight connectors	

Motor, side brush with brush tilt, left hand

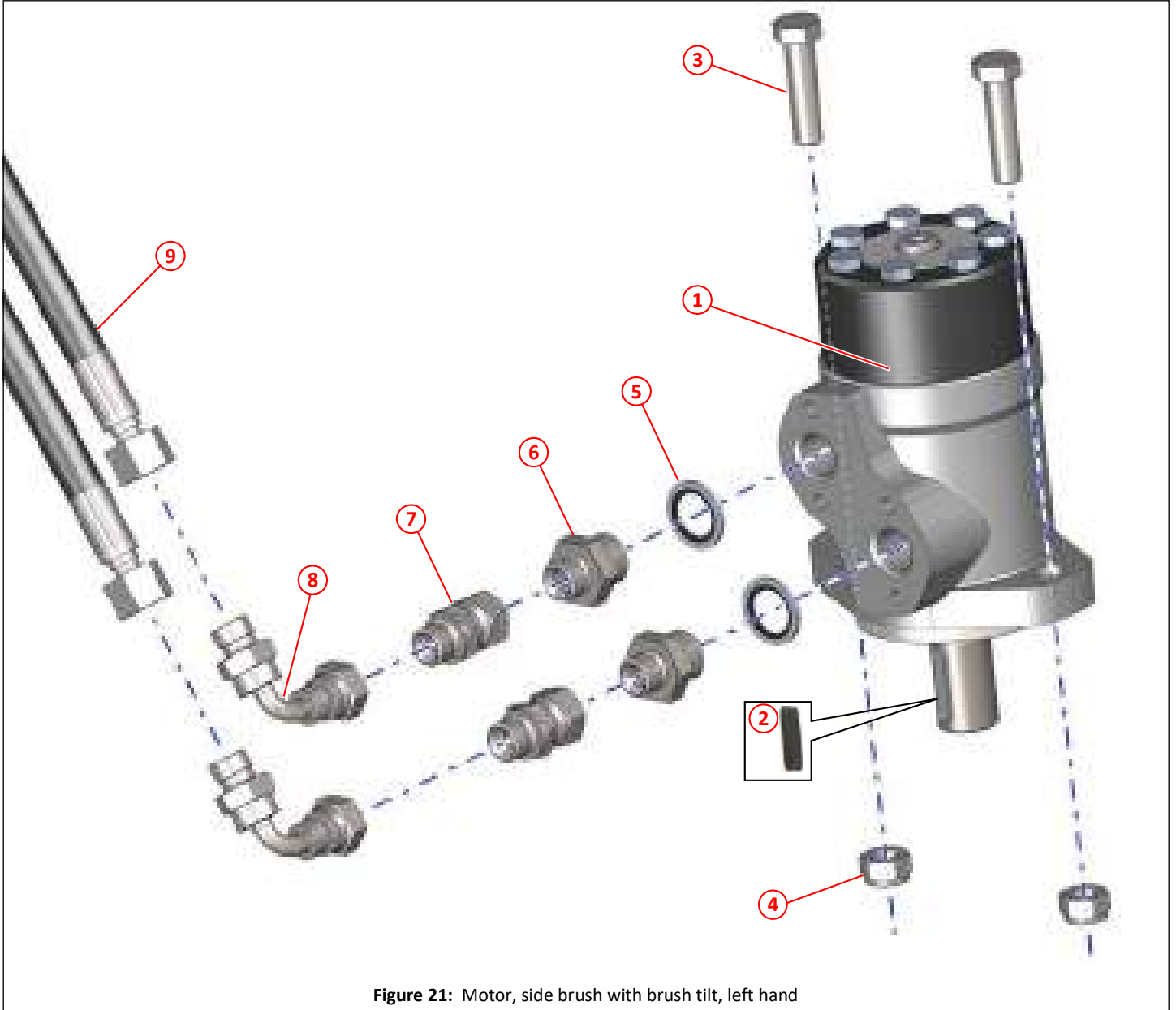


Figure 21: Motor, side brush with brush tilt, left hand

Item	Part No	Qty	Description	
1	SCA010749	1	Motor 3597 200cc	
2	SCA011515	1	Key for item 1	
3	SCA011054	2	Setscrew HT M12 x 45	
4	SCA011077	2	Nyloc nut M12	
5	SCA011154	2	Dowty seal 1/2" BSP	
6	SCA011167	2	Adapter 1/2" x 3/8" BSP	
7	SCA002144	2	Straight connector, M/F 3/8" BSP	
8	SCA011221	2	Swept elbow $\frac{3}{8}$ " BSP	
9	SCA011307	2	Hose 3/8" x 1300 long, 3/8" BSP straight connectors	

Brush tilt actuator, side brush left hand

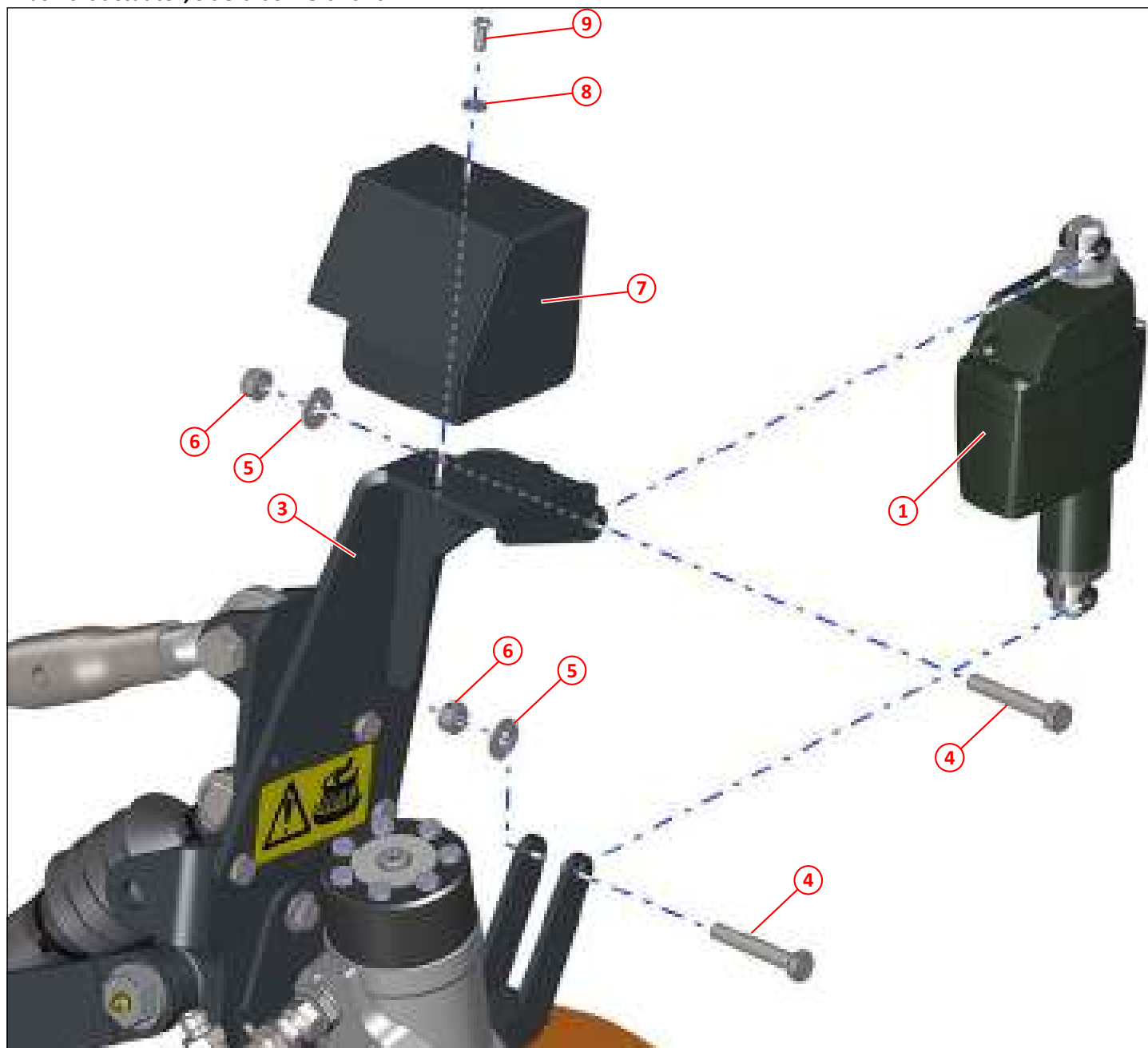


Figure 22: Brush tilt actuator, side brush left hand

Item	Part No	Qty	Description	
1	SCA047660	1	Brush tilt actuator (24V)	
2	SCA046270	1	Brush tilt actuator (12V)	
3	SCA046279	1	Brush tilt plate, left hand	
4	SCA011036	2	Bolt HT M10 x 60	
5	SCA011094	2	Plain washer M10	
6	SCA011075	2	Nyloc nut M10	
7	SCA046491	1	Actuator cover, brush tilt, left hand	
8	SCA000373	1	Socket dome head screw M6 x 16, stainless steel	
9	SCA000254	1	Plain washer M6, stainless steel	

Side brush arrangement, right hand, without brush tilt

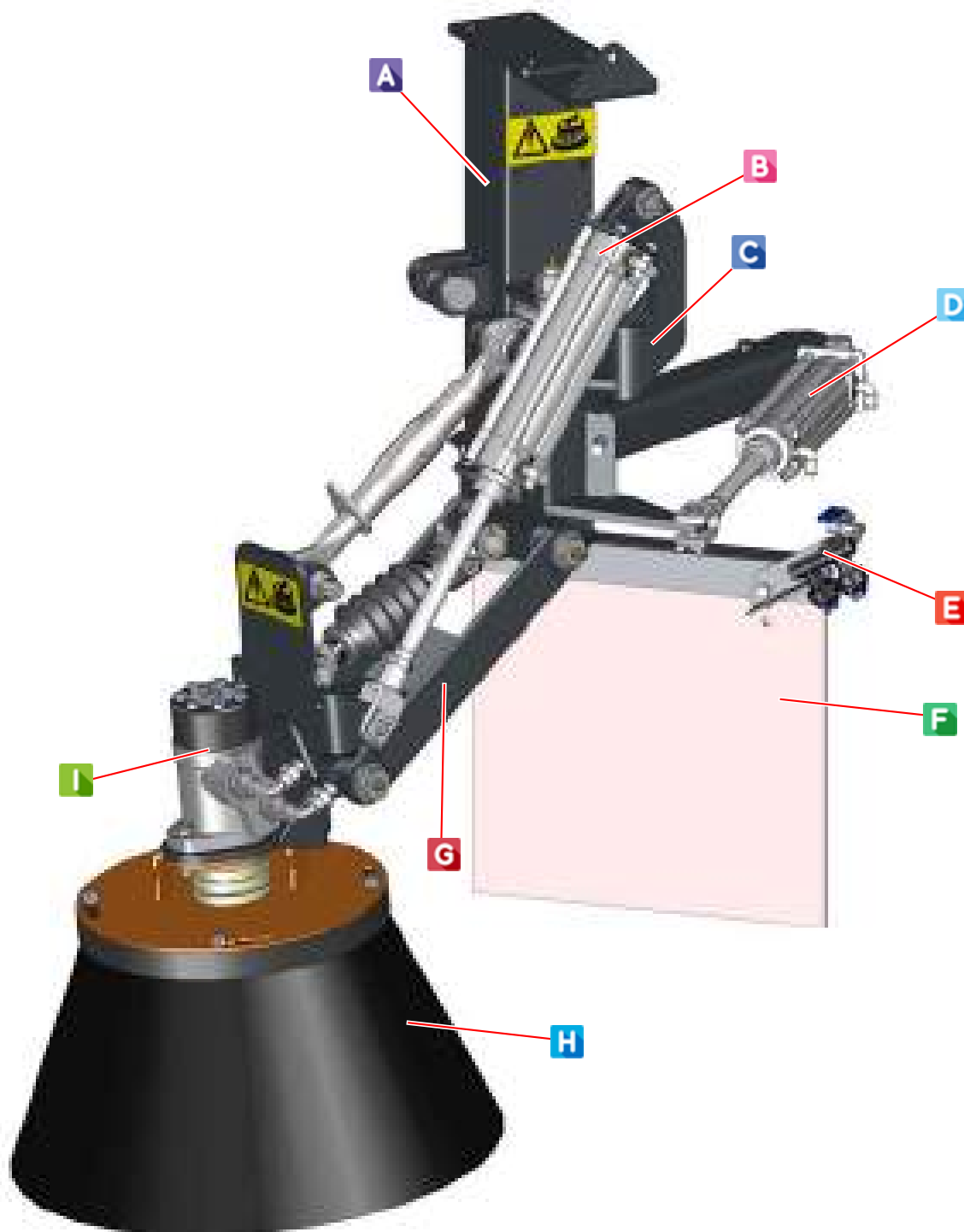


Figure 23: Side brush arrangement, right hand, without brush tilt

Item	Description	
A	Subframe leg, right hand	21
B	Side brush pressure, right hand	
C	King post, right hand	
D	Side brush swing in/out, right hand	
E	Side brush water spray, right hand	
F	Side brush skirt, right hand	
G	Side brush raise/lower, right hand	
H	Side brush	
I	Side brush drive motor, right hand	

Side brush arrangement, right hand, with brush tilt

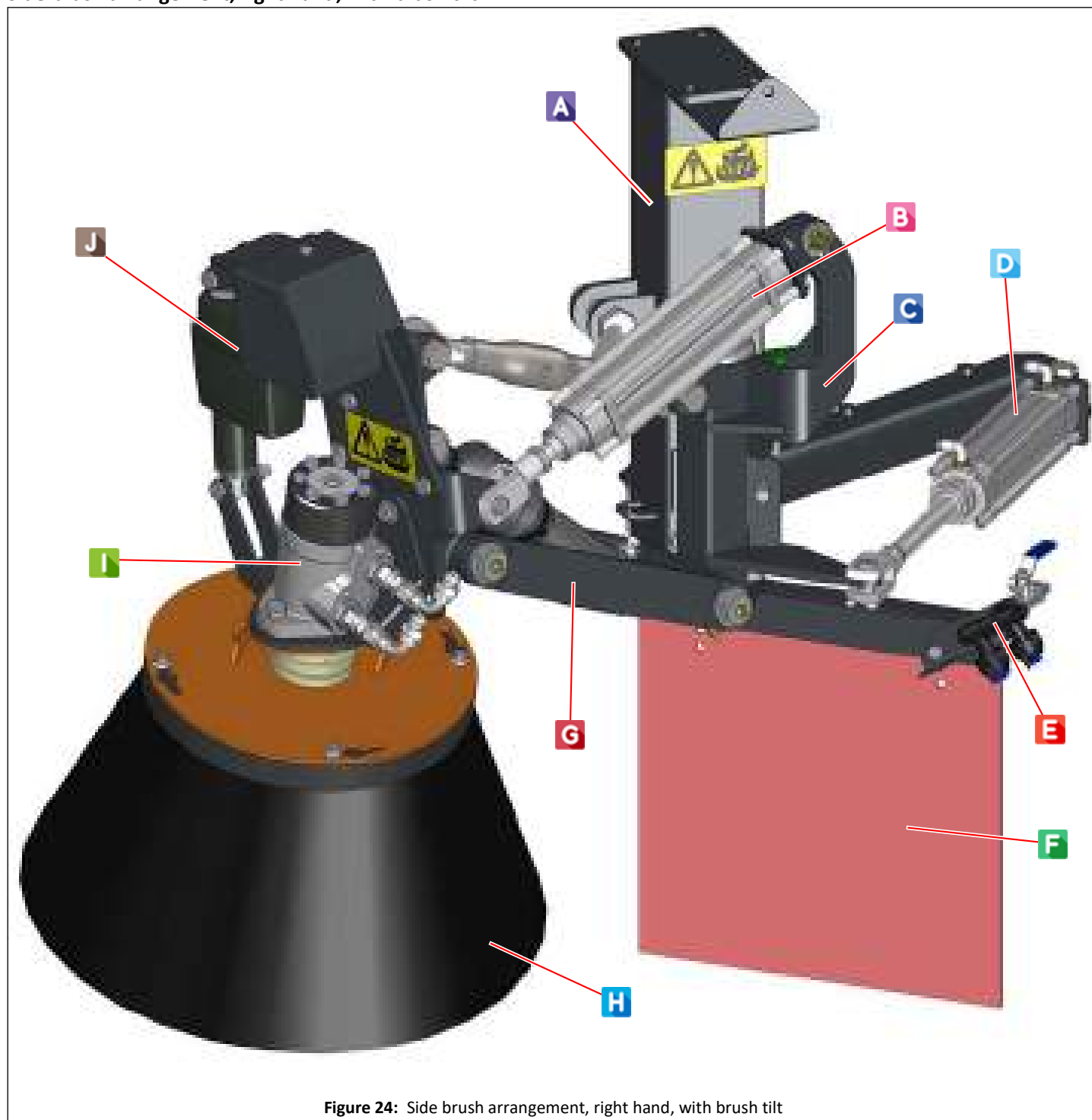


Figure 24: Side brush arrangement, right hand, with brush tilt

Item	Description	
A	Subframe leg, right hand	21
B	Side brush pressure, right hand	47
C	King post, right hand	43
D	Side brush swing in/out, right hand	44
E	Side brush water spray, right hand	49
F	Side brush skirt, right hand	48
G	Side brush raise/lower, right hand	
H	Side brush	
I	Side brush drive motor, right hand	
J	Brush tilt mechanism, right hand	

King post, right hand, side brush

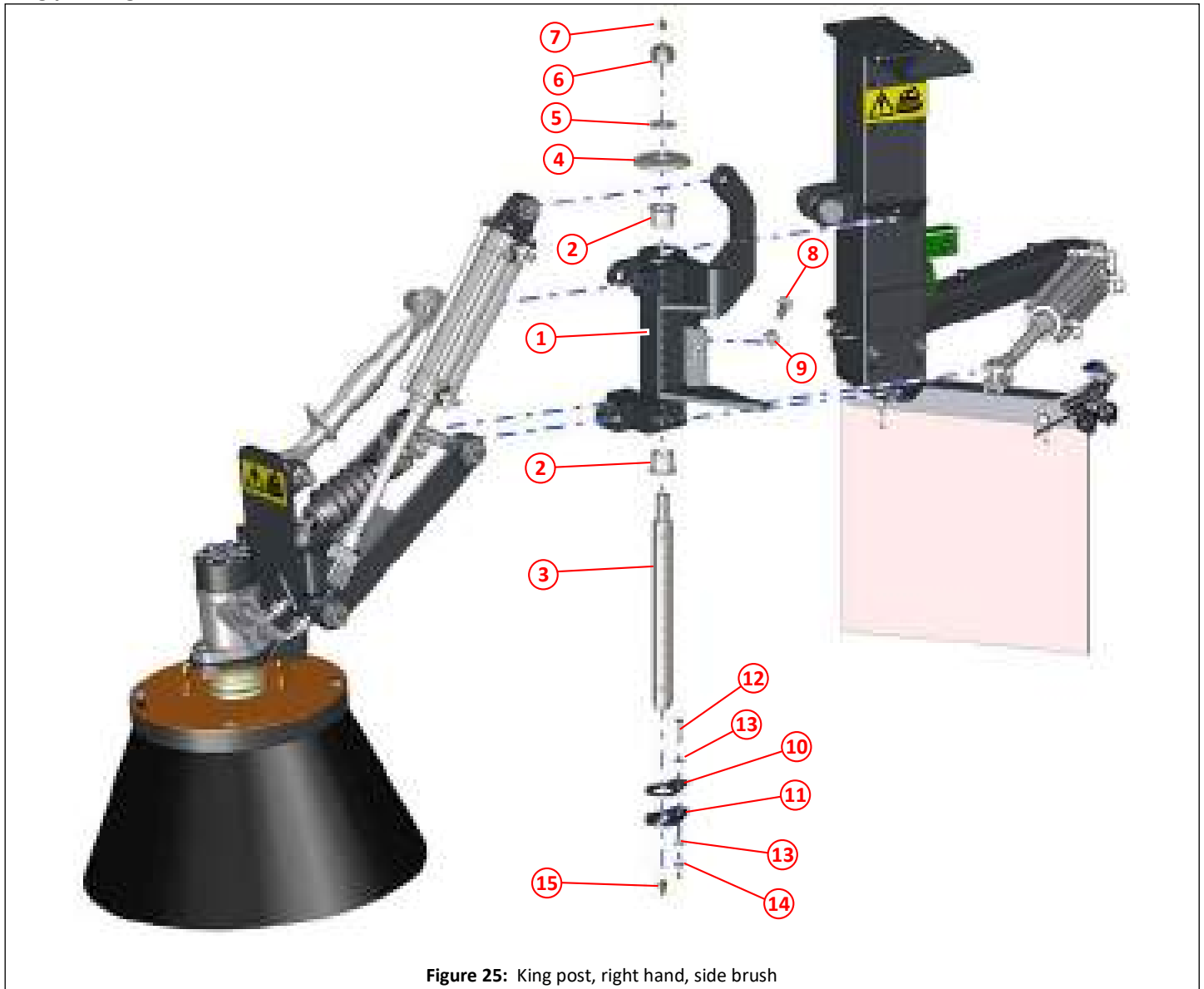


Figure 25: King post, right hand, side brush

Item	Part No	Qty	Description	
1	SCA023124	1	King Post, right hand side brush	
2	SCA013012	2	Bush	
3	SCA013007	1	King pin	
4	SCA013013	1	Dirt shield	
5	SCA011102	1	Plain washer M20	
6	SCA011082	1	Nyloc nut M20	
7	SCA010903	1	Grease nipple, 1/8" BSP, straight	
8	SCA000521	1	Setscrew M12 x 70 BZP	
9	SCA011076	1	Full nut M12	
10	SCA048997	1	King pin locking plate, thin	
11	SCA048998	1	King pin locking plate, thick	
12	SCA000020	1	Setscrew M6 x 30	
13	SCA000254	2	Plain washer M6, stainless steel	
14	SCA000253	1	Nyloc nut M6, stainless steel	
15	SCA010901	1	Grease nipple, 1/8" BSP, 135°	

Swing in/out, right hand, side brush

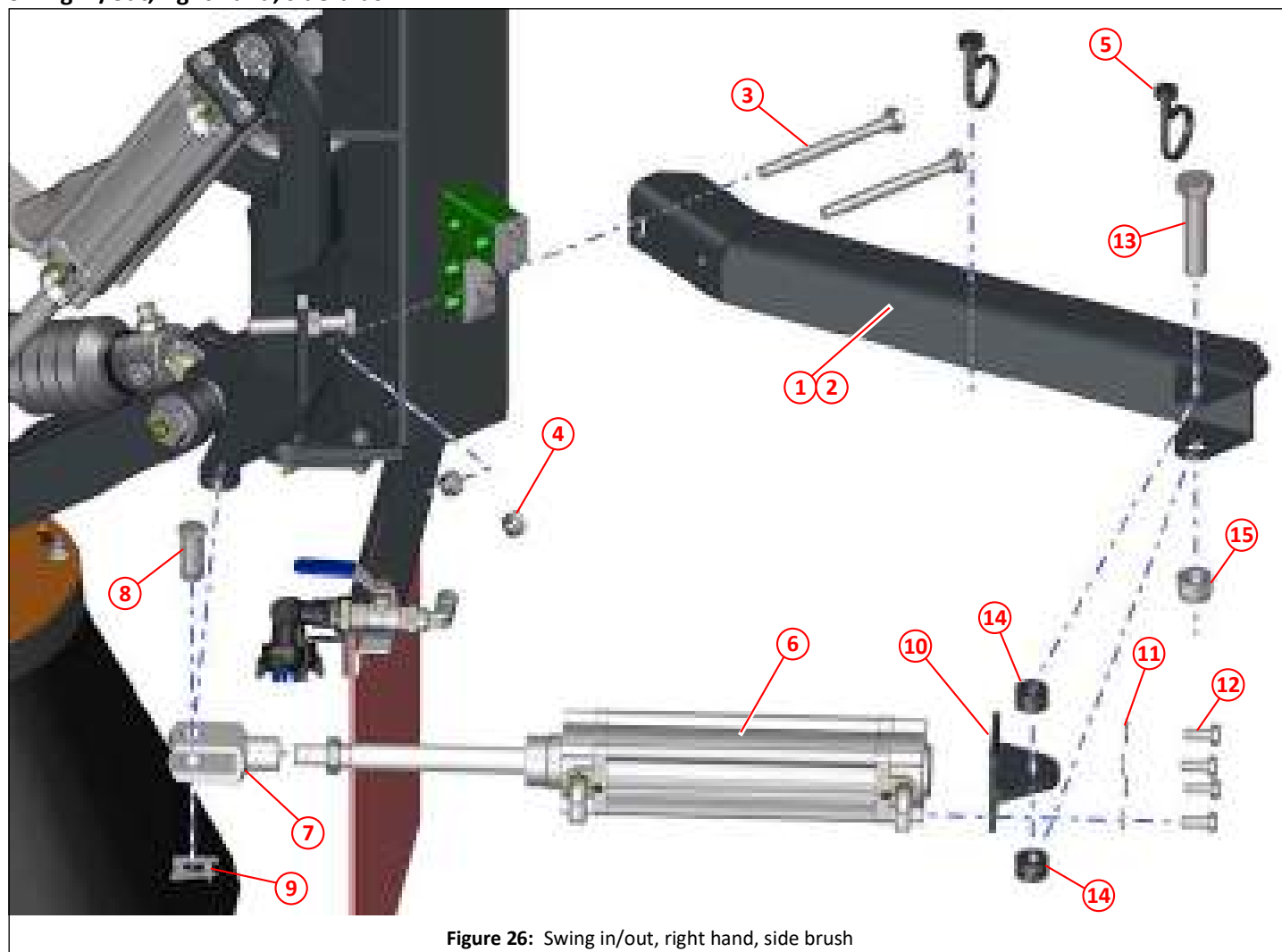


Figure 26: Swing in/out, right hand, side brush

Item	Part No	Qty	Description	
1	SCA021520	1	Arm, air cylinder, right hand - Merlin	
2	SCA021722	1	Arm, air cylinder, right hand - Magnum	
3	SCA011407	2	Bolt HT M10 x120	
4	SCA011075	2	Nyloc nut M10	
5	SCA005061	2	Cable tie, round head	
6	SCA020298	1	Pneumatic cylinder 50 x 160	
7	SCA020299	1	Clevis pneumatic M16 x 1.5	
8	SCA022673	1	Clevis pin	
9	SCA022674	1	Clip, retaining M16	
10	SCA020534	1	Ram end	
11	SCA011093	4	Spring washer M8	
12	SCA011010	4	Setscrew HT M8 x 20	
13	SCA011260	1	Bolt HT M16 x 70	
14	SCA011000	2	Hose 5/8", fuel SAE100R6 - (Cut to 15mm)	
15	SCA011060	1	Nyloc nut M16	

Hydraulic hose tidy, right hand - Merlin

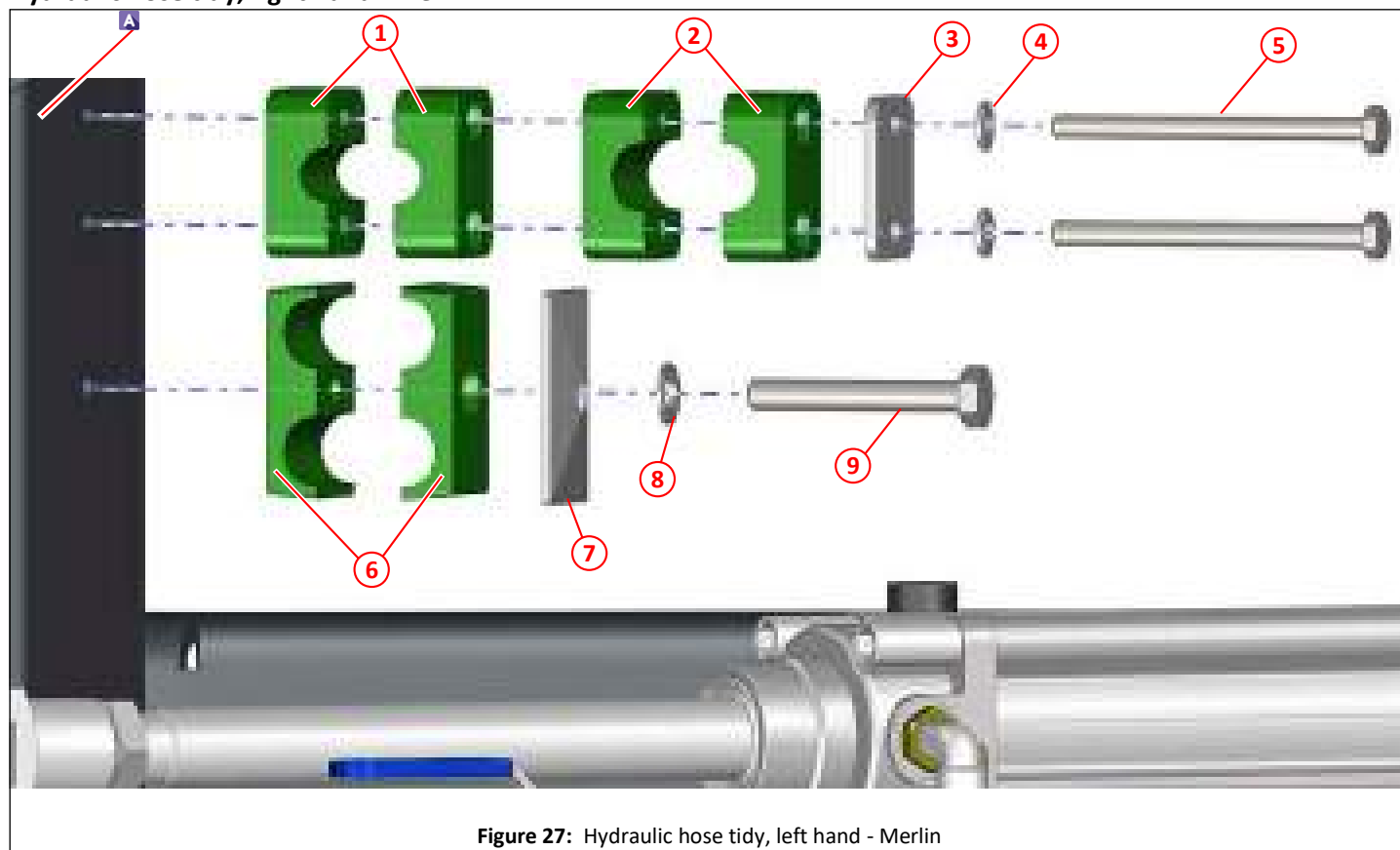


Figure 27: Hydraulic hose tidy, left hand - Merlin

Item	Part No	Qty	Description	
A			Subframe leg, left hand	21
1	SCA031316	2	Pipe clamp block 1/4" hose, single	
2	SCA002163	2	Pipe clamp block ø17.2, single	
3	SCA031317	1	Clamp plate flat	
4	SCA011091	2	Spring washer M6	
5	SCA000221	2	Bolt HT M6 x 80	
6	SCA031318	2	Pipe clamp block 3/8" hose, twin	
7	SCA031319	1	Clamp plate flat	
8	SCA011093	1	Spring washer M8	
9	SCA000009	1	Bolt HT M8 x 55	

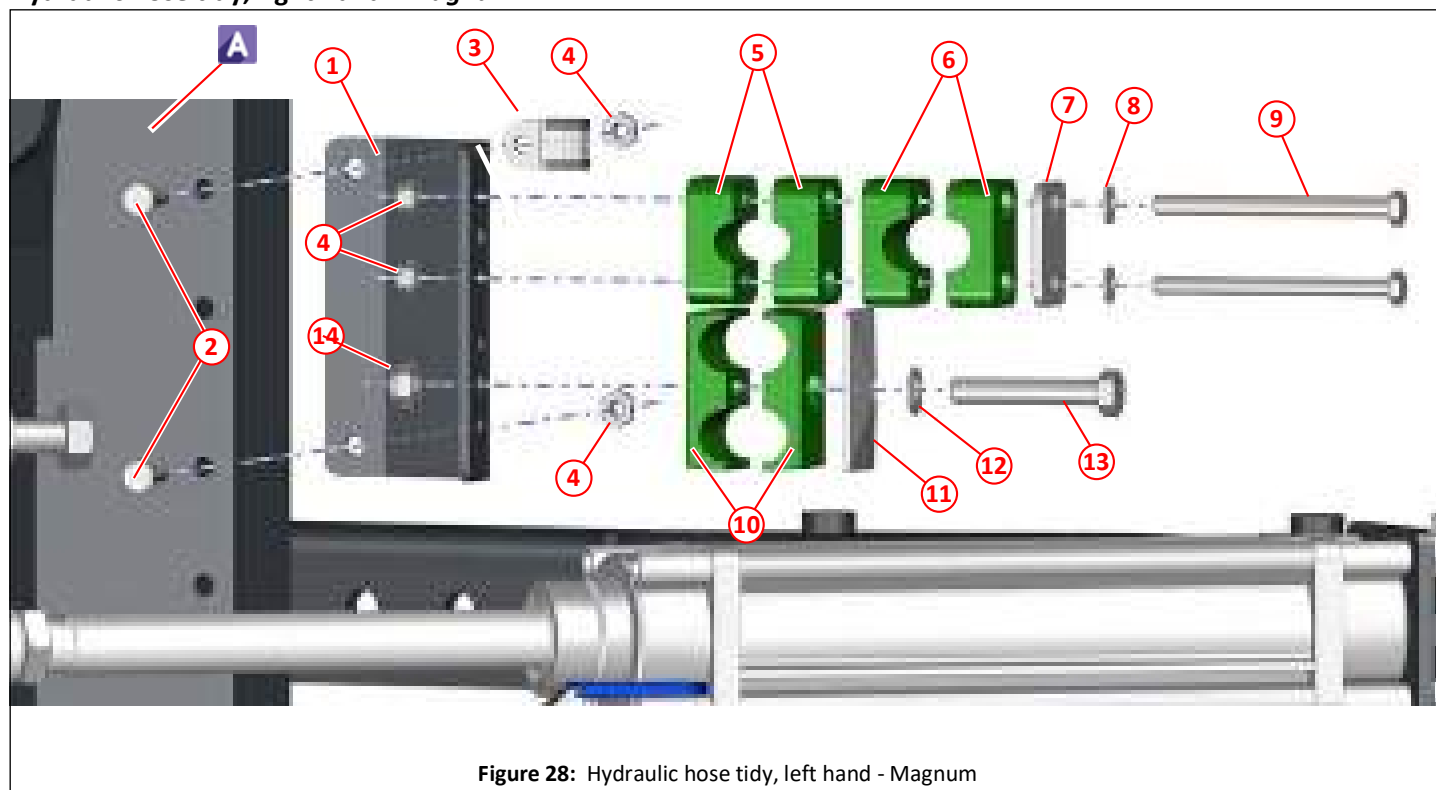
Hydraulic hose tidy, right hand - *Magnum*

Figure 28: Hydraulic hose tidy, left hand - Magnum

Item	Part No	Qty	Description	
A			Subframe leg, left hand	21
1	SCA031306	1	Clamp support	
2	SCA011087	2	Setscrew HT M6 x 25	
3	SCA021914	1	Clip ø12, rubber, sealed	
4	SCA011071	4	Nyloc nut M6	
5	SCA031316	2	Pipe clamp block 1/4" hose, single	
6	SCA002163	2	Pipe clamp block ø17.2, single	
7	SCA031317	1	Clamp plate flat	
8	SCA011091	2	Spring washer M6	
9	SCA000221	2	Bolt HT M6 x 80	
10	SCA031318	2	Pipe clamp block 3/8" hose, twin	
11	SCA031319	1	Clamp plate flat	
12	SCA011093	1	Spring washer M8	
13	SCA000009	1	Bolt HT M8 x 55	
15	SCA011073	1	Nyloc nut M8	

Side brush pressure, right hand

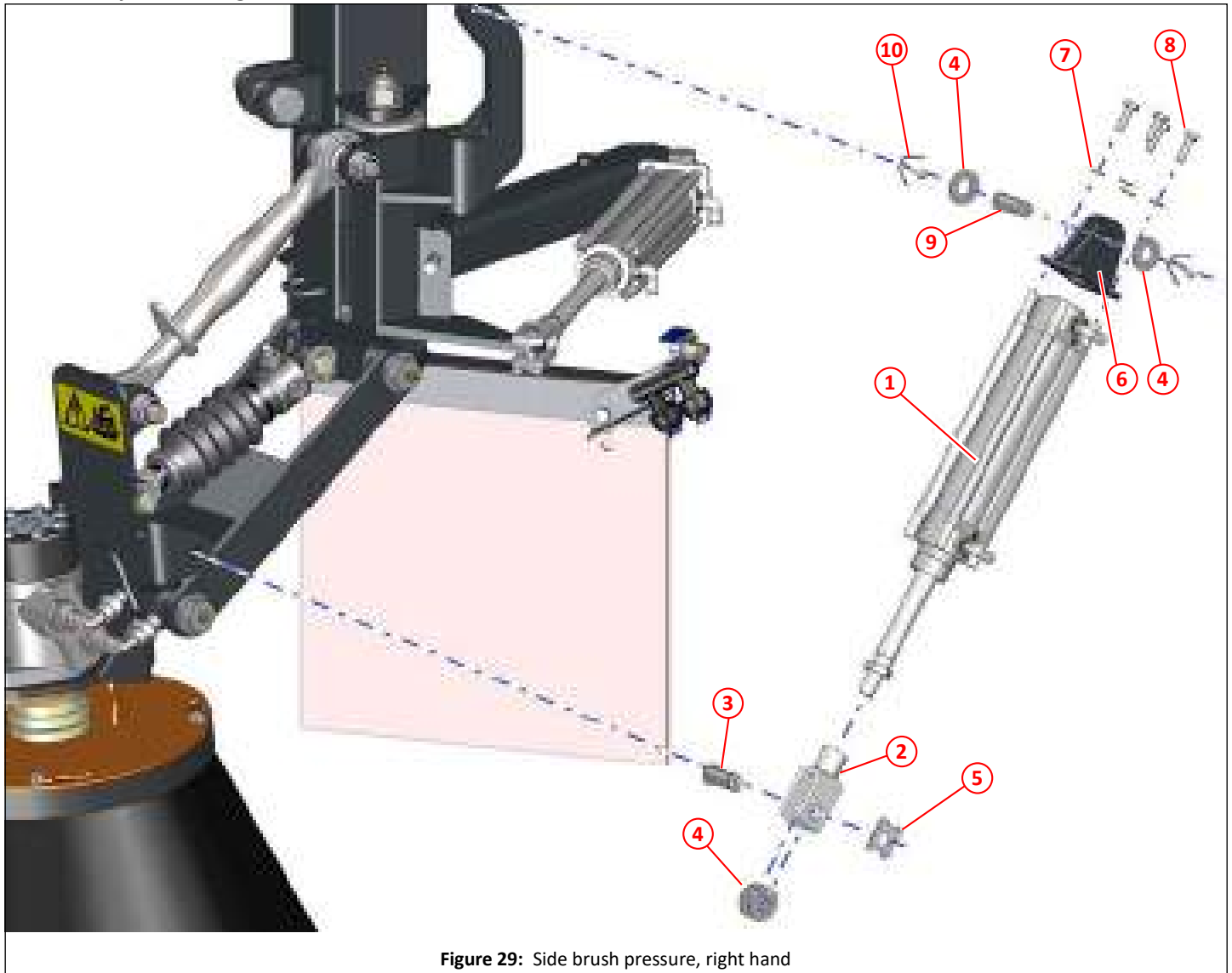
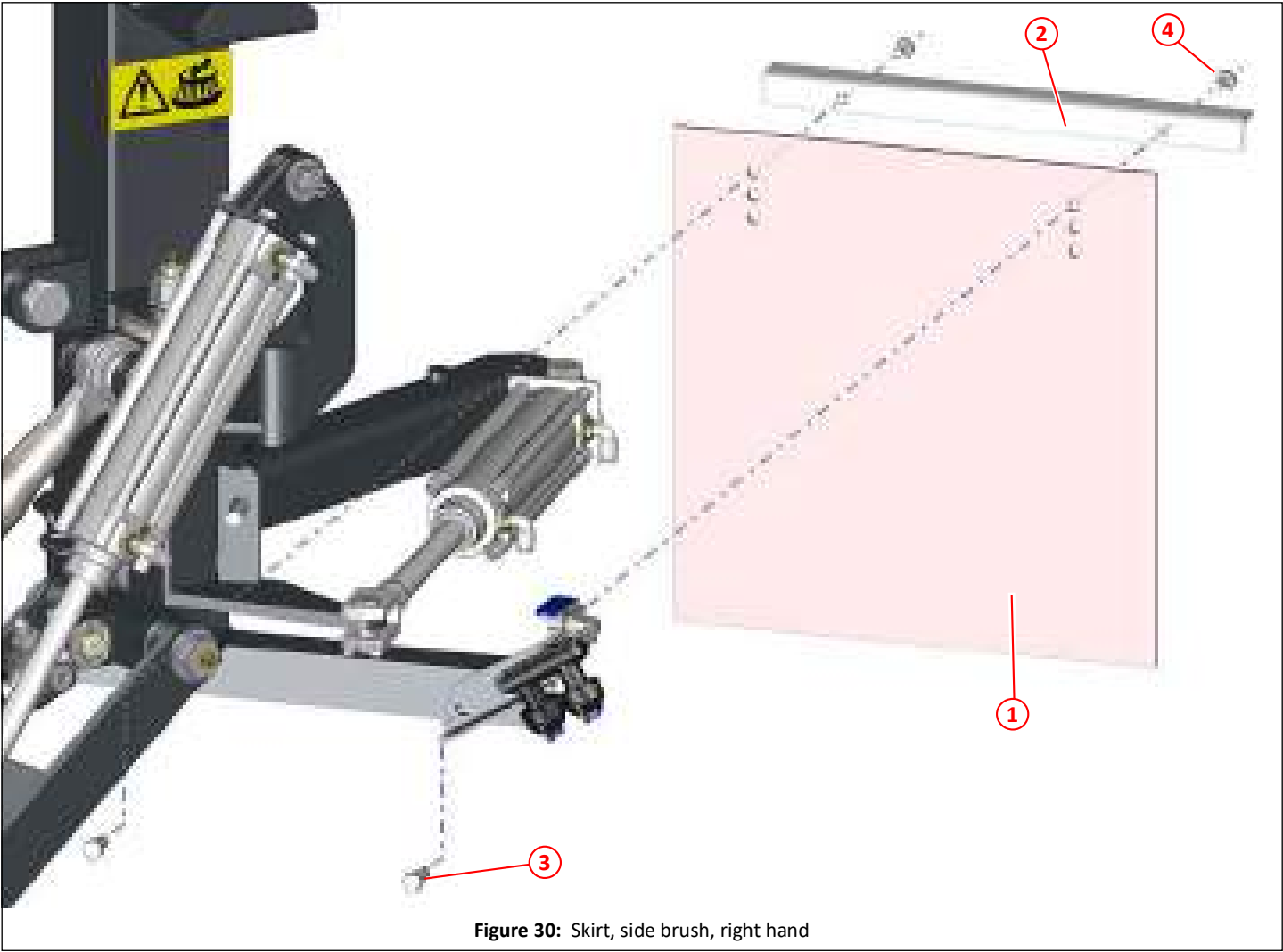


Figure 29: Side brush pressure, right hand

Item	Part No	Qty	Description	
1	SCA020298	1	Pneumatic cylinder 50 x 160	
2	SCA020299	1	Clevis pneumatic M16 x 1.5	
3	SCA022673	1	Clevis pin	
4	SCA011135	4	Plain washer M16	
5	SCA022674	1	Clip, retaining M16	
6	SCA023122	1	Pivot, pneumatic cylinder ø50	
7	SCA011093	4	Spring washer M8	
8	SCA011011	4	Setscrew HT M8x25	
9	SCA023123	1	Pin ø16 x 46	
10	SCA011122	2	Split pin 3/16" x 1 1/2"	

Skirt, side brush, right hand



Item	Part No	Qty	Description	
1	SCA012216	1	Skirt, side brush - 2 pitch, heavy duty	
2	SCA012217	1	Skirt clamp	
3	SCA011011	2	Setscrew HT M8 x 25	
4	SCA011073	2	Nyloc nut M8	

Water spray, side brush, right hand

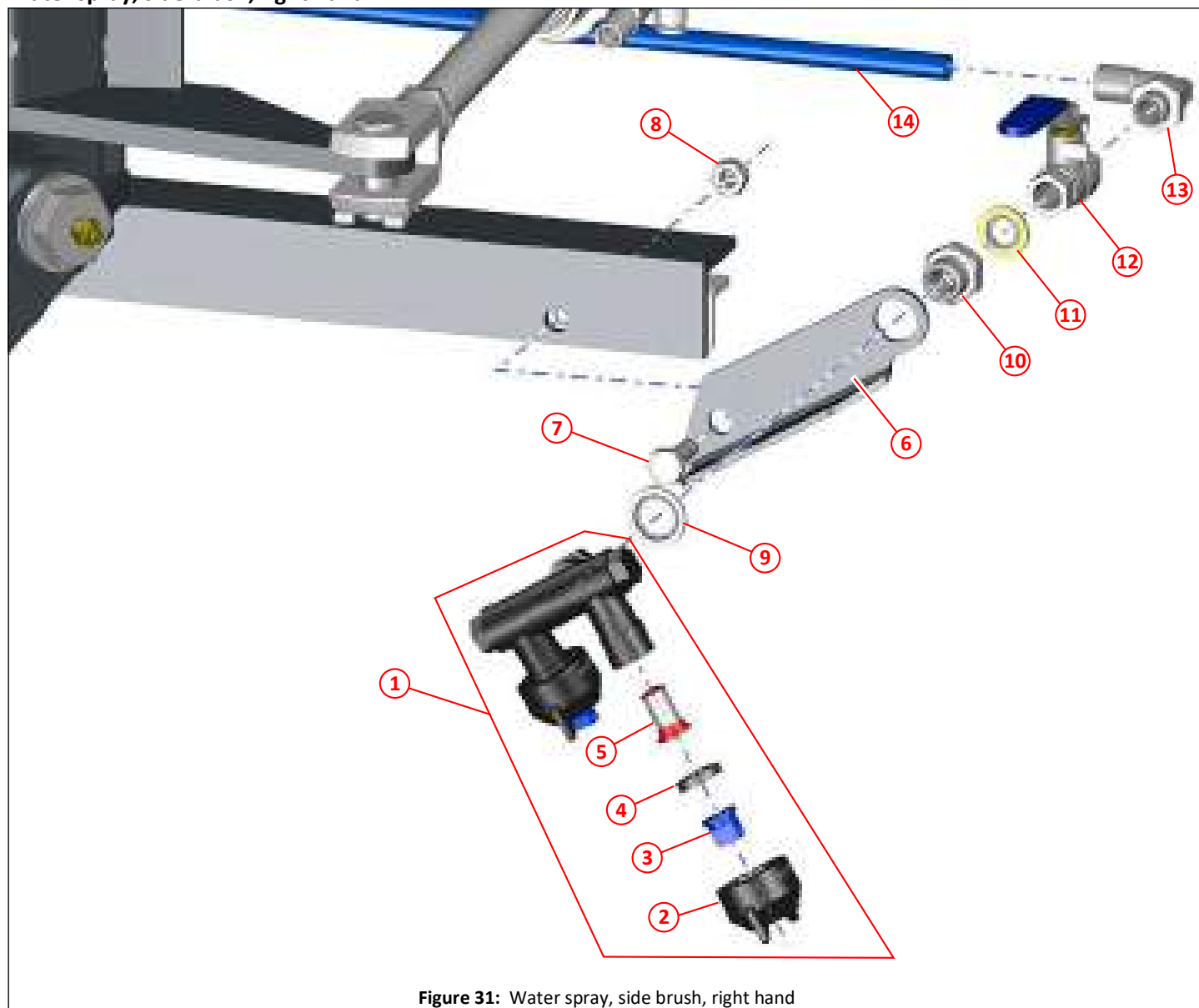


Figure 31: Water spray, side brush, right hand

Item	Part No	Qty	Description	
1	SCA036044	1	Double swivel nozzle holder assembly	
2	SCA030746	2	Cone nozzle cap	
3	SCA030748	2	Jet (blue)	
4	SCA030636	2	Rubber washer	
5	SCA030633	2	Filter, 100 mesh	
6	SCA036042	1	Nozzle bracket	
7	SCA011011	1	Setscrew HT M8 x 25	
8	SCA011073	1	Nyloc nut M8	
9	SCA011153	1	Dowty seal 3/8" BSP	
10	SCA011199	1	Adapter 3/8" x 1/4" BSP	
11	SCA011152	1	Dowty seal 1/4" BSP	
12	SCA011743	1	Valve 1/4" ball	
13	SCA047602	1	Elbow, push-in 10mm x 1/4" BSP	
14	SCA041031	1	ø10mm nylon pipe, blue	

Brush link, right hand

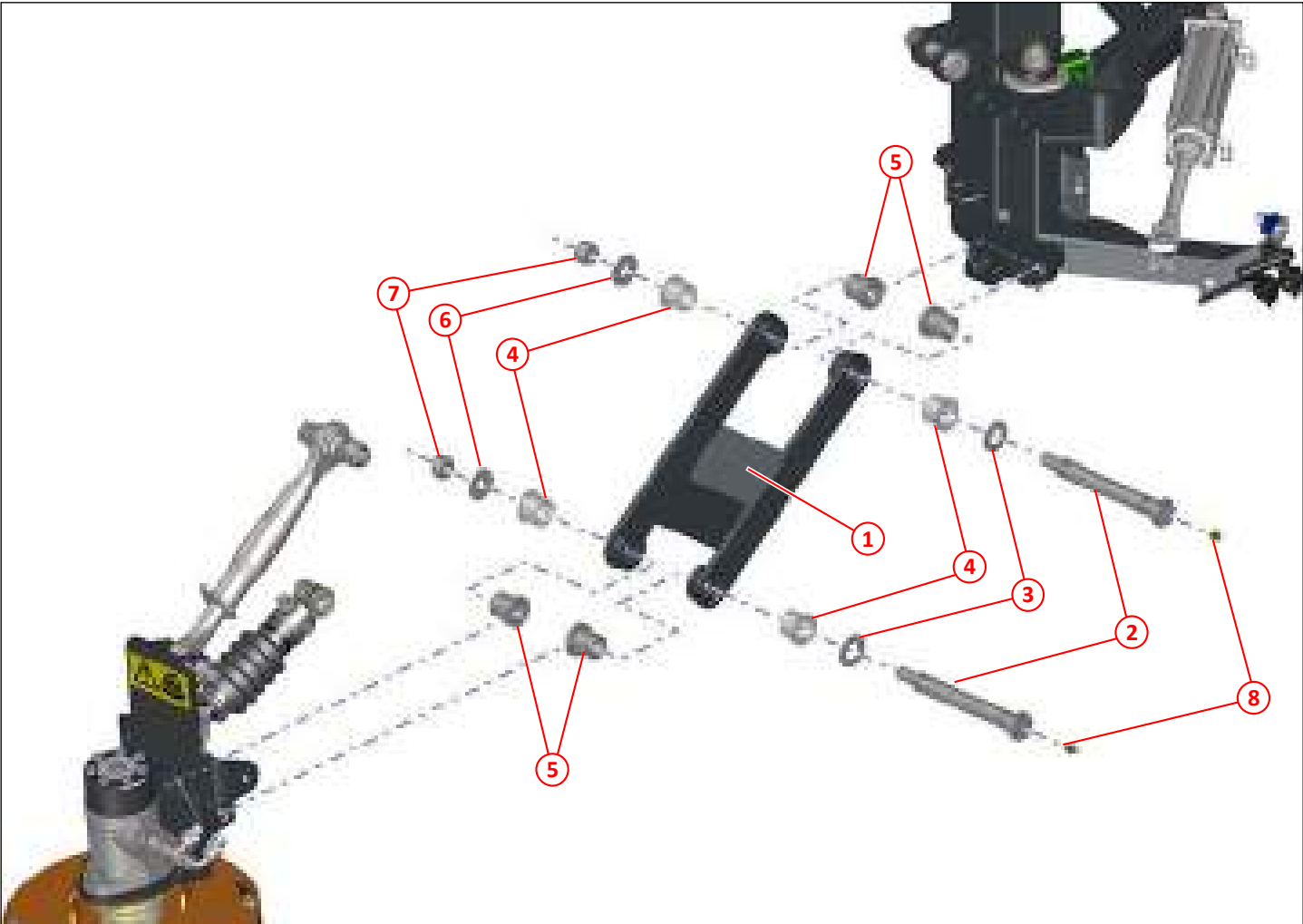
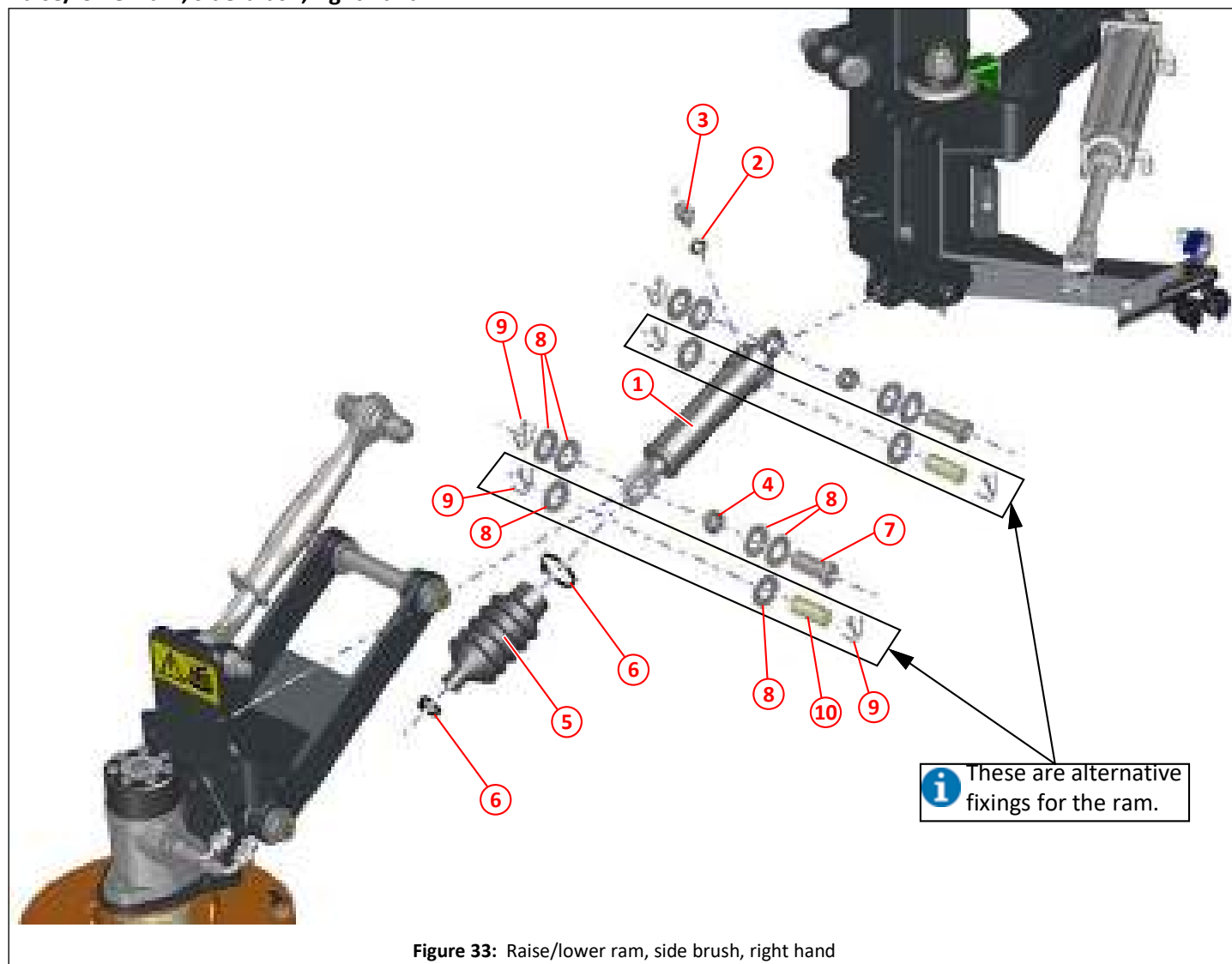


Figure 32: Brush link, right hand

Item	Part No	Qty	Description	
1	SCA014801	1	Brush link, side brush	
2	SCA014796	2	Pivot bolt, side brush	
3	SCA014798	2	Washer $\varnothing 24 \times \varnothing 40 \times 3$	
4	SCA013012	4	Bush	
5	SCA014799	4	Spacer sleeve, side brush	
6	SCA014797	2	Washer $\varnothing 17 \times \varnothing 40 \times 3$	
7	SCA011060	2	Nyloc nut M16	
8	SCA010903	2	Grease nipple, 1/8" BSP, straight	

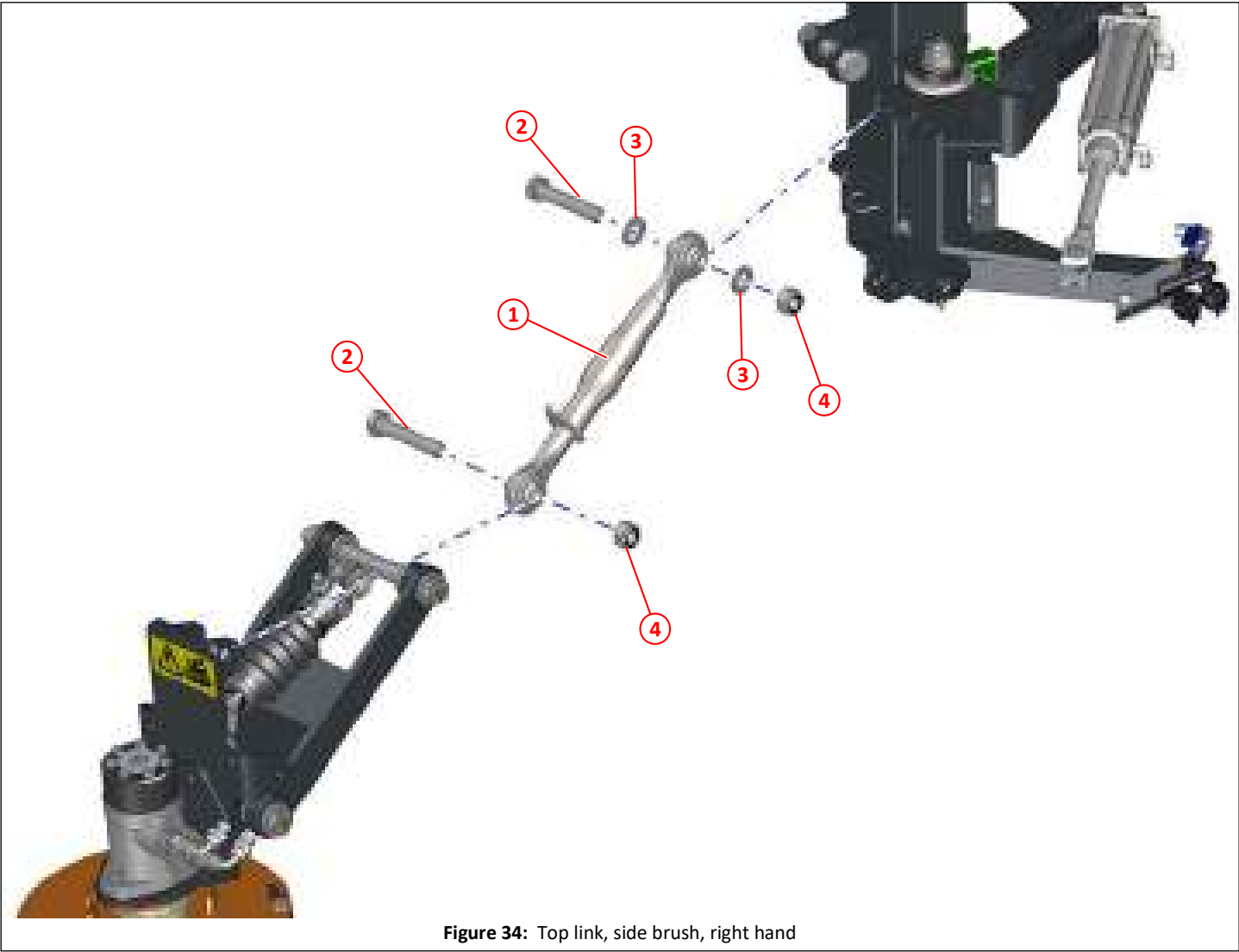
Raise/lower ram, side brush, right hand



Item	Part No	Qty	Description
1	SCA010009	1	Ram 240/340
2	SCA011152	1	Dowty seal 3/8" BSP
3	SCA012539	1	Adapter, restrictor No 5, 1/4" x 1/4" BSP, 1/32"white
4	SCA024682	2	Bush $\varnothing 25 \times \varnothing 20 \times 10$
5	SCA014473	1	Bellows, ram
6	SCA005018	2	Cable tie, black, X80R
7	SCA010067	2	Clevis pin $\varnothing 20 \times 50$
8	SCA011102	12	Plain washer M20
9	SCA011122	6	Split pin 3/16" x 1 1/2"
10	SCA010067	2	Pin, $\varnothing 20 \times 50$

i Please note the quantities required for items 7, 8, 9, and 10 will be dependant on which of the fixings are used. The quantities shown here are the totals shown and will differ from what is required.

Top link, side brush, right hand



Item	Part No	Qty	Description	
1	SCA013011	1	Top link	
2	SCA011140	2	Bolt HT M18 x 90	
3	SCA011138	2	Plain washer M18	
4	SCA011139	2	Nyloc nut M18	

Swivel plate, side brush, right hand

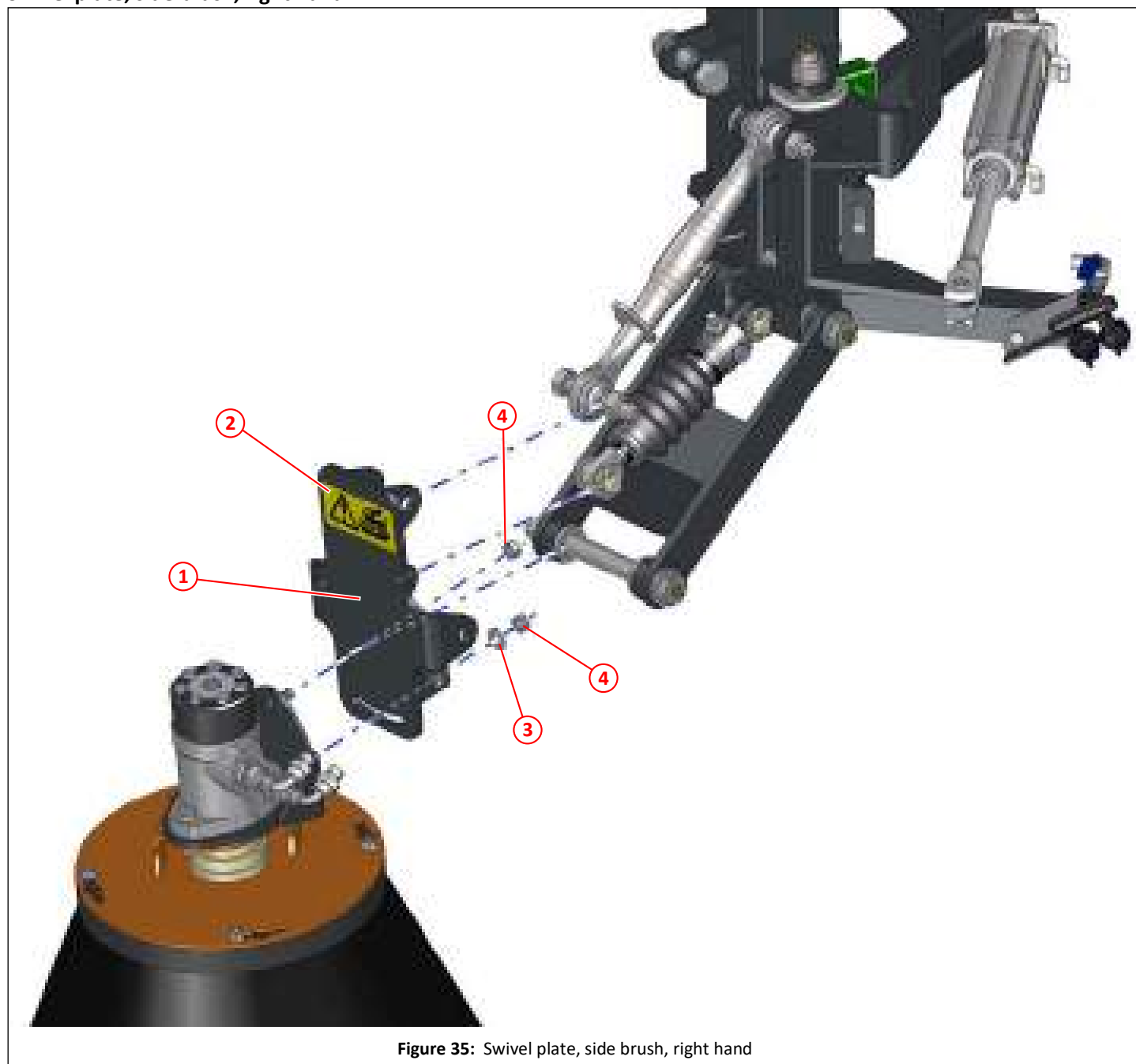


Figure 35: Swivel plate, side brush, right hand

Item	Part No	Qty	Description	
1	SCA023121	1	Swivel plate side brush	
2	SCA022383	1	Label-Brush warning	
3	SCA011094	1	Plain washer M10	
4	SCA011075	2	Nyloc nut M10	

Swivel plate, side brush with brush tilt, right hand

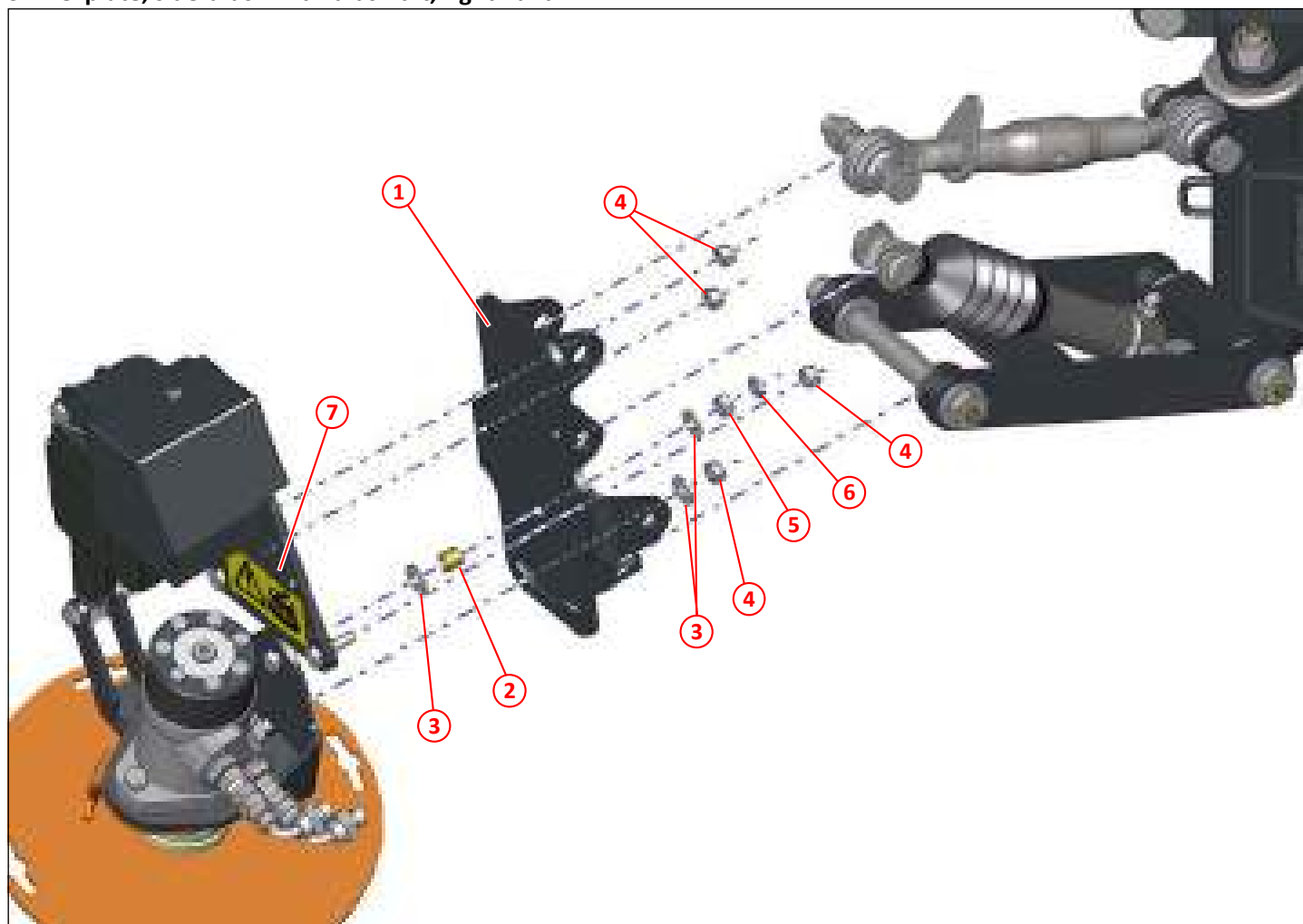


Figure 36: Swivel plate, side brush with brush tilt, right hand

Item	Part No	Qty	Description	
1	SCA046284	1	Swivel plate side brush with brush tilt	
2	SCA046282	1	Bush $\varnothing 16 \times \varnothing 10.5 \times 15$	
3	SCA011094	3	Plain washer M10	
4	SCA011075	4	Nyloc nut M10	
5	SCA011074	1	Full nut M10	
6	SCA000506	1	Half nut M10	
7	SCA046281	1	Brush tilt plate, right hand	

Motor mounting, side brush, right hand

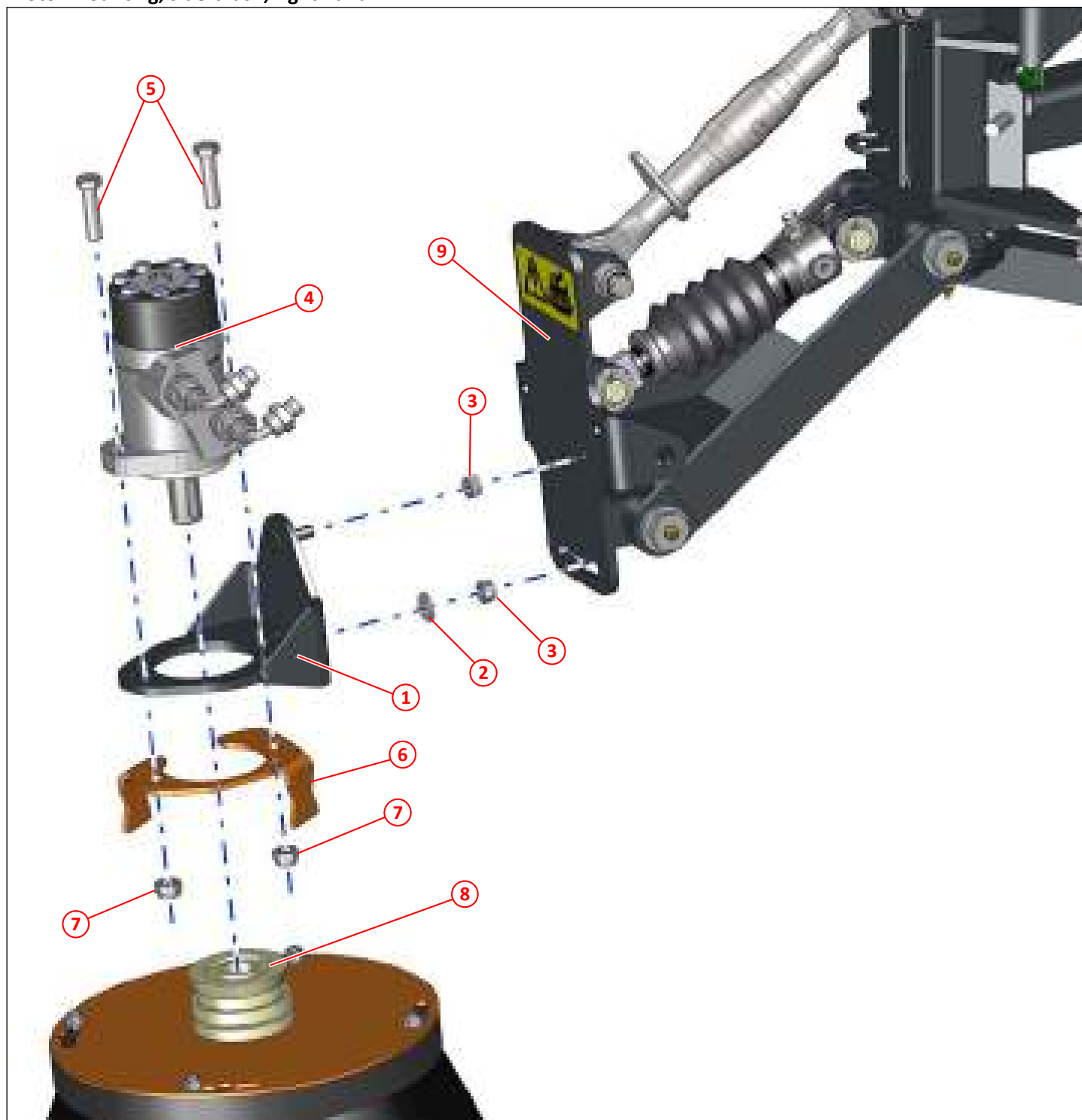


Figure 37: Motor mounting, side brush, right hand

Item	Part No	Qty	Description	
1	SCA047485	1	Motor bracket, side brush, bolt hub	
2	SCA011094	1	Plain washer M10	
3	SCA011075	2	Nyloc nut M10	
4	SCA010749	1	Motor 3597 200cc	
5	SCA011054	2	Setscrew HT M12 x 45	
6	SCA049582	1	Tape cutter right hand	
7	SCA011077	2	Nyloc nut M12	
8	SCA047482	1	Plate hub	
9	SCA023121	1	Swivel plate side brush	53

Side brush tilt plate, right hand

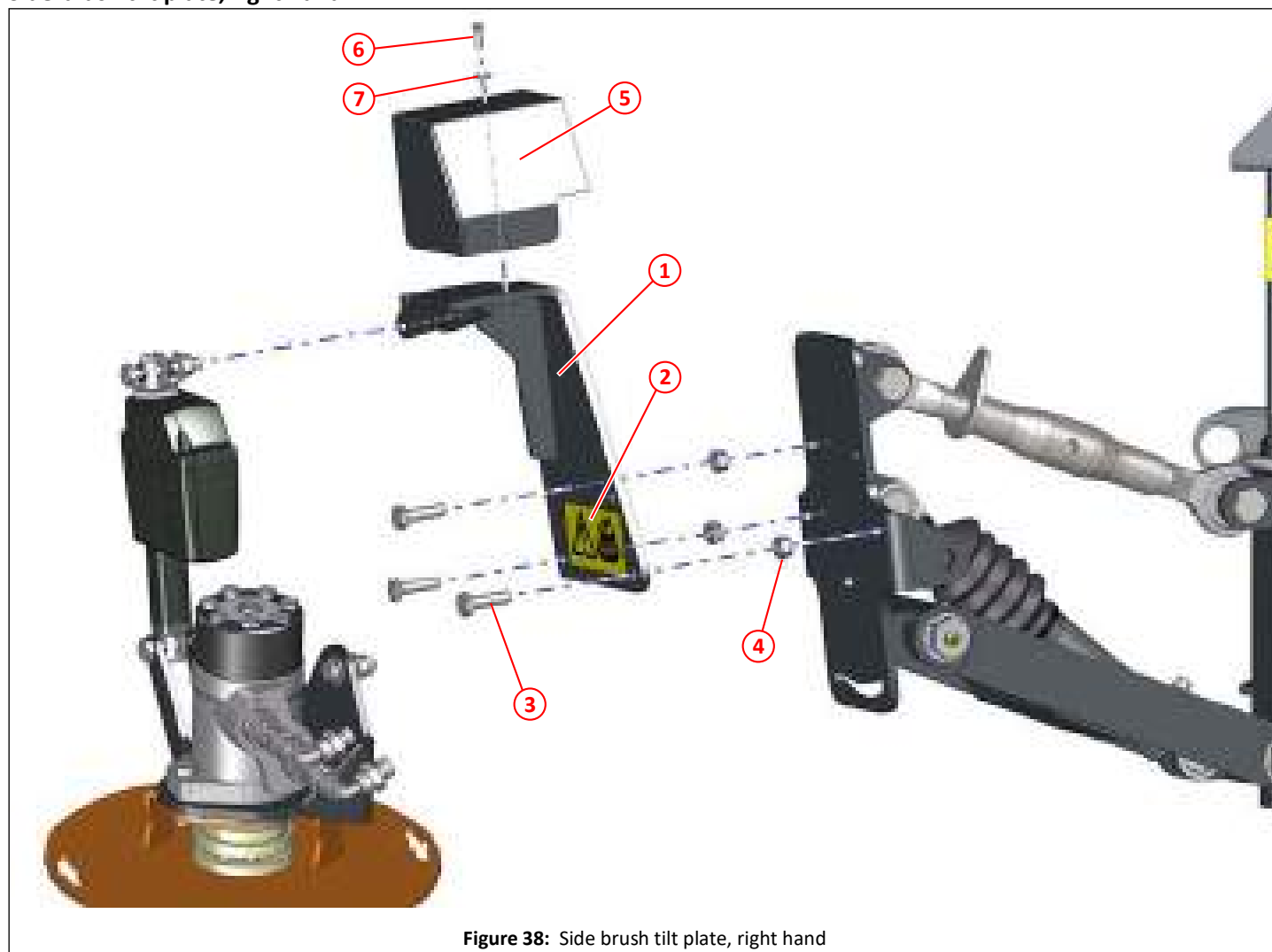


Figure 38: Side brush tilt plate, right hand

Item	Part No	Qty	Description	
1	SCA046279	1	Brush tilt plate, right hand	
2	SCA022383	1	Label, Brush warning	
3	SCA011033	3	Setscrew HT M10 x 35	
4	SCA011075	3	Nyloc nut M10	
5	SCA046492	1	Actuator cover, brush tilt, right hand	
6	SCA000373	1	Socket dome head screw M6 x 16, stainless steel	
7	SCA000254	1	Plain washer M6, stainless steel	

Motor mount, side brush with brush tilt, right hand

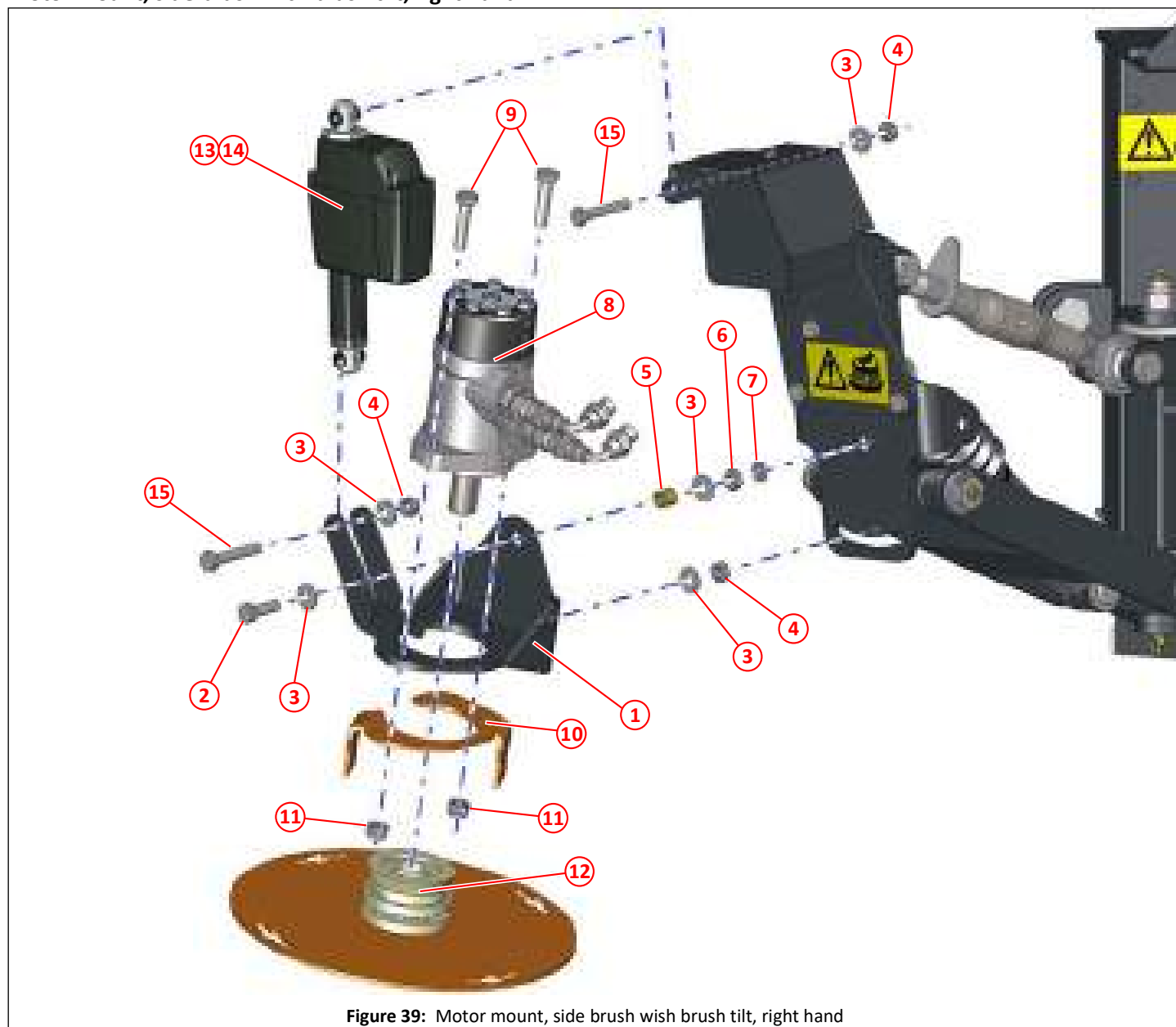


Figure 39: Motor mount, side brush wish brush tilt, right hand

Item	Part No	Qty	Description	
1	SCA047579	1	Motor bracket tilting side brush, bolt hub, right hand	
2	SCA011033	1	Setscrew HT M10 x35	
3	SCA011094	5	Plain washer M10	
4	SCA011075	3	Nyloc nut M10	
5	SCA046282	1	Bush ø16 x ø10.5 x 15	
6	SCA011074	1	Full nut M10	
7	SCA000506	1	Half nut M10	
8	SCA010749	1	Motor 3597 200cc	38
9	SCA011054	2	Setscrew HT M12 x 45	
10	SCA049582	1	Tape cutter right hand	
11	SCA011077	2	Nyloc nut M12	
12	SCA047482	1	Plate hub	61
13	SCA047660	1	Brush tilt actuator (24V)	
14	SCA046270	1	Brush tilt actuator (12V)	
15	SCA011036	2	Bolt HT M10 x 60	

Motor, side brush, right hand

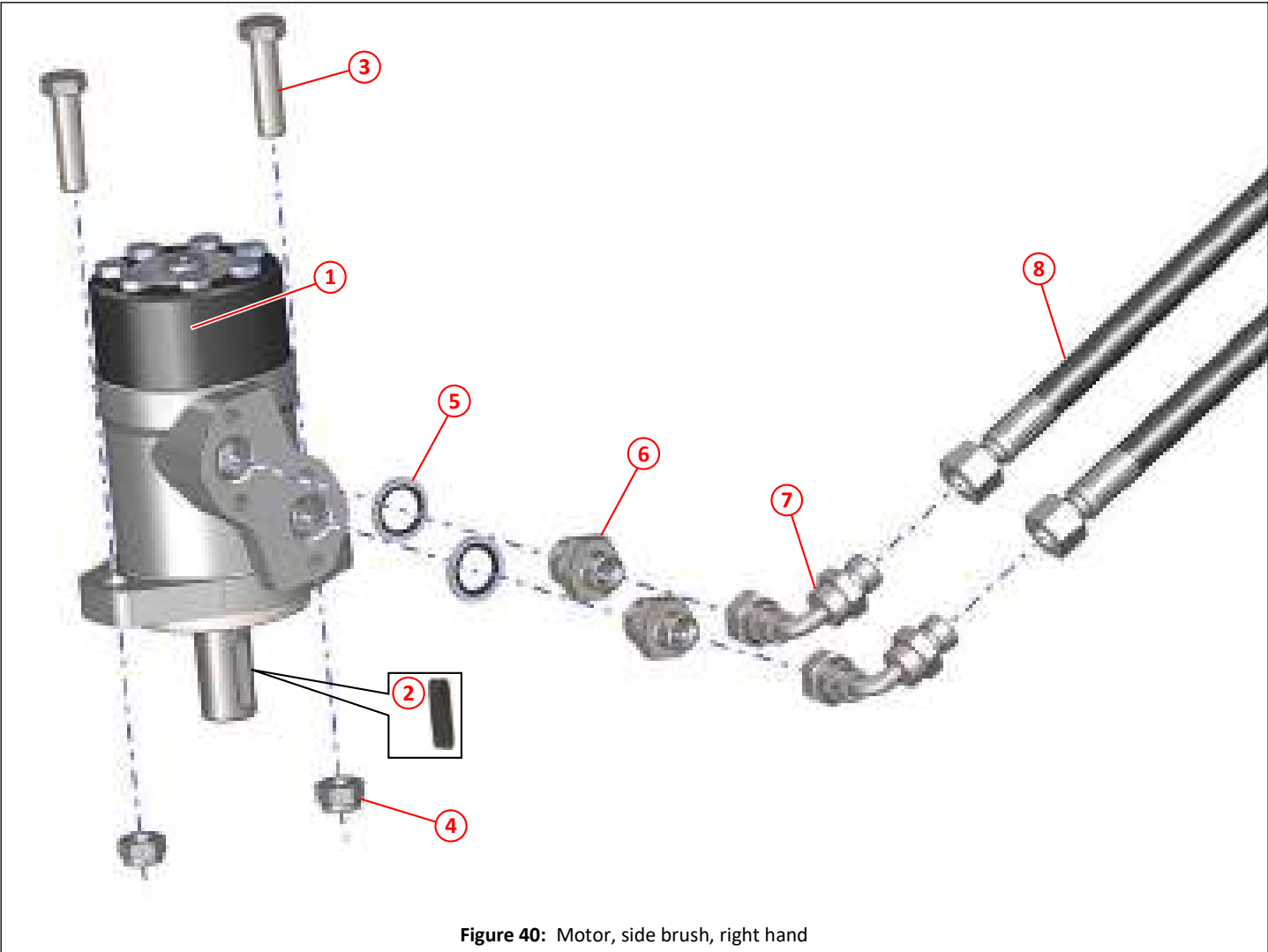


Figure 40: Motor, side brush, right hand

Item	Part No	Qty	Description	
1	SCA010749	1	Motor 3597 200cc	
2	SCA011515	1	Key for item 1	
3	SCA011054	2	Setscrew HT M12 x 45	
4	SCA011077	2	Nyloc nut M12	
5	SCA011154	2	Dowty seal 1/2" BSP	
6	SCA011167	2	Adapter 1/2" x 3/8" BSP	
7	SCA011221	2	Swept elbow $\frac{3}{8}$ " BSP	
8	SCA011307	2	Hose 3/8" x 1300 long, 3/8" BSP straight connectors	

Motor, side brush with brush tilt, right hand

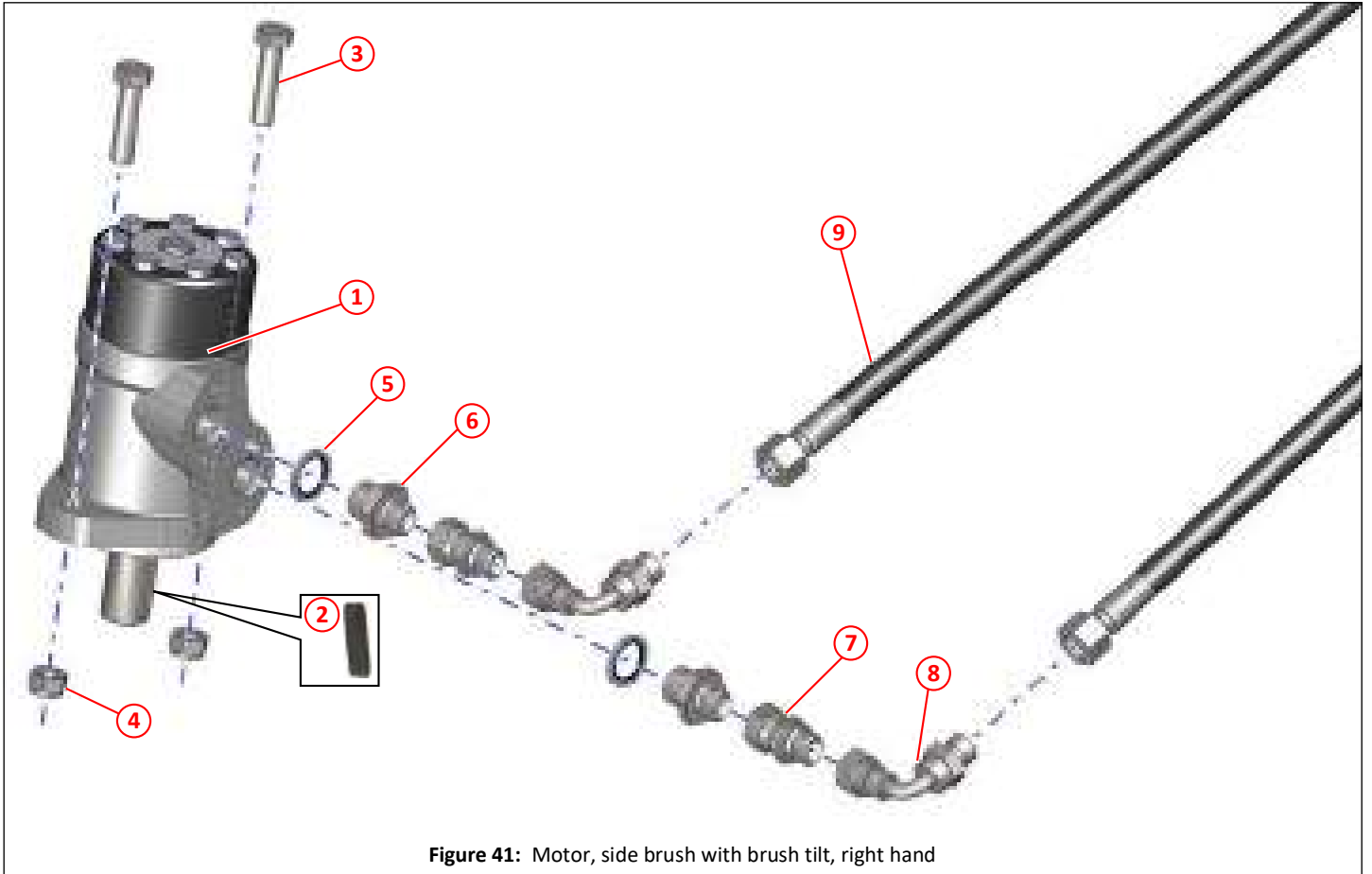
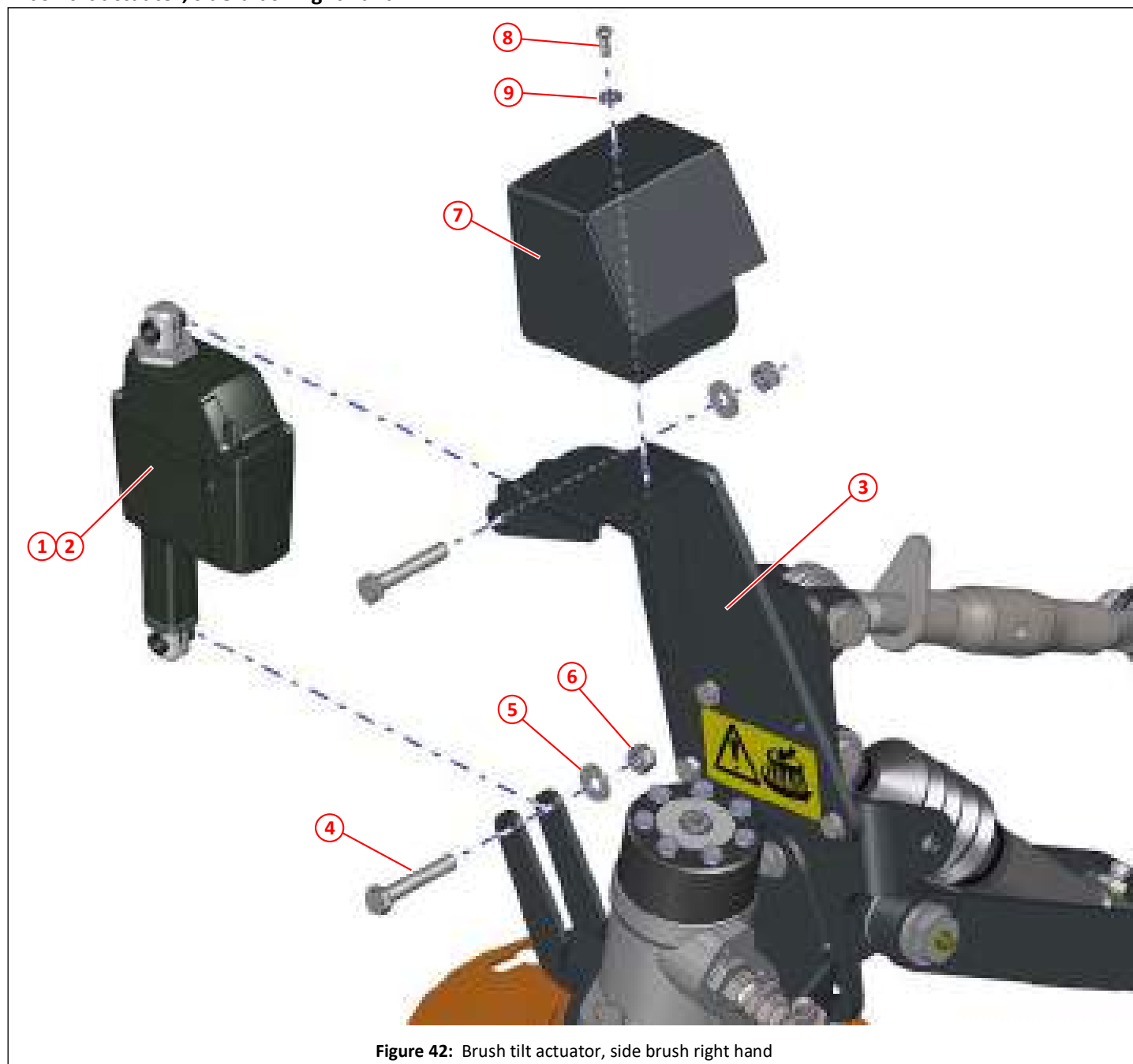


Figure 41: Motor, side brush with brush tilt, right hand

Item	Part No	Qty	Description	
1	SCA010749	1	Motor 3597 200cc	
2	SCA011515	1	Key for item 1	
3	SCA011054	2	Setscrew HT M12 x 45	
4	SCA011077	2	Nyloc nut M12	
5	SCA011154	2	Dowty seal 1/2" BSP	
6	SCA011167	2	Adapter 1/2" x 3/8" BSP	
7	SCA002144	2	Straight connector, M/F 3/8" BSP	
8	SCA011221	2	Swept elbow $\frac{3}{8}$ " BSP	
9	SCA011307	2	Hose 3/8" x 1300 long, 3/8" BSP straight connectors	

Brush tilt actuator, side brush right hand



Item	Part No	Qty	Description	
1	SCA047660	1	Brush tilt actuator (24V)	
2	SCA046270	1	Brush tilt actuator (12V)	
3	SCA046281	1	Brush tilt bracket right hand	
4	SCA011036	2	Bolt HT M10 x 60	
5	SCA011094	2	Plain washer M10	
6	SCA011075	2	Nyloc nut M10	
7	SCA046492	1	Actuator cover, brush tilt, right hand	
8	SCA000373	1	Socket dome head screw M6 x 16, stainless steel	
9	SCA000254	1	Plain washer M6, stainless steel	

Bolt hub, brush hubs and brushes

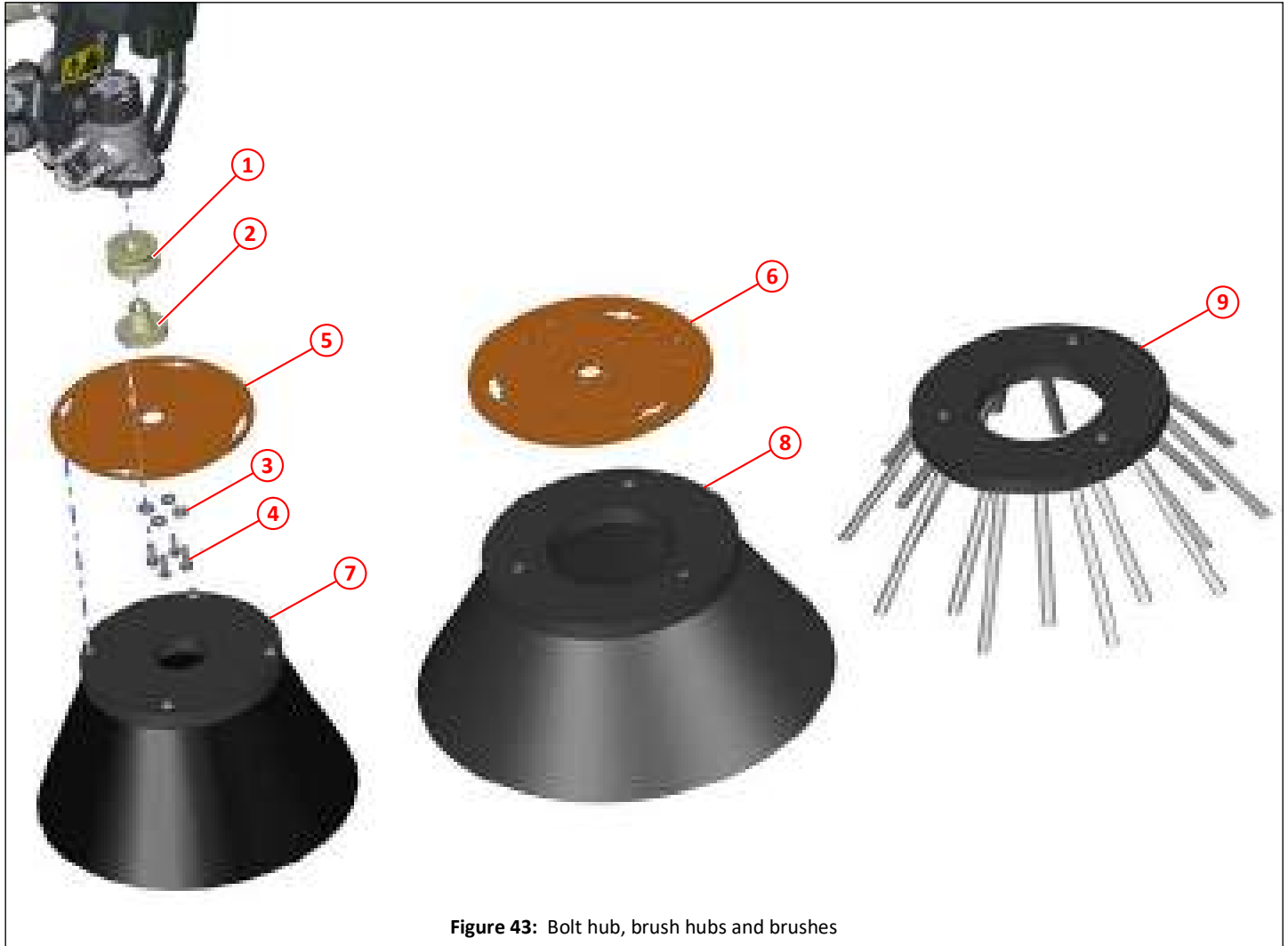


Figure 43: Bolt hub, brush hubs and brushes

Item	Part No	Qty	Description	
1	SCA047482	1	Plate hub	
2	SCA047481	1	Sprung hub	
3	SCA000270	4	Plain washer M10, stainless steel	
4	SCA000462	4	Setscrew HT M10 x35, stainless steel	
5	SCA048096	1	Brush hub 3000, side brush, bolt hub)	
6	SCA047484	1	Brush hub 7000, side brush, bolt hub	
7	SCA023470	1	Brush side 315-500, steel	
8	SCA023473	1	Brush side 400-650, steel	
9	SCA020921	1	Brush side 7000, weed ripper	

Central brush (wide sweep) arrangement

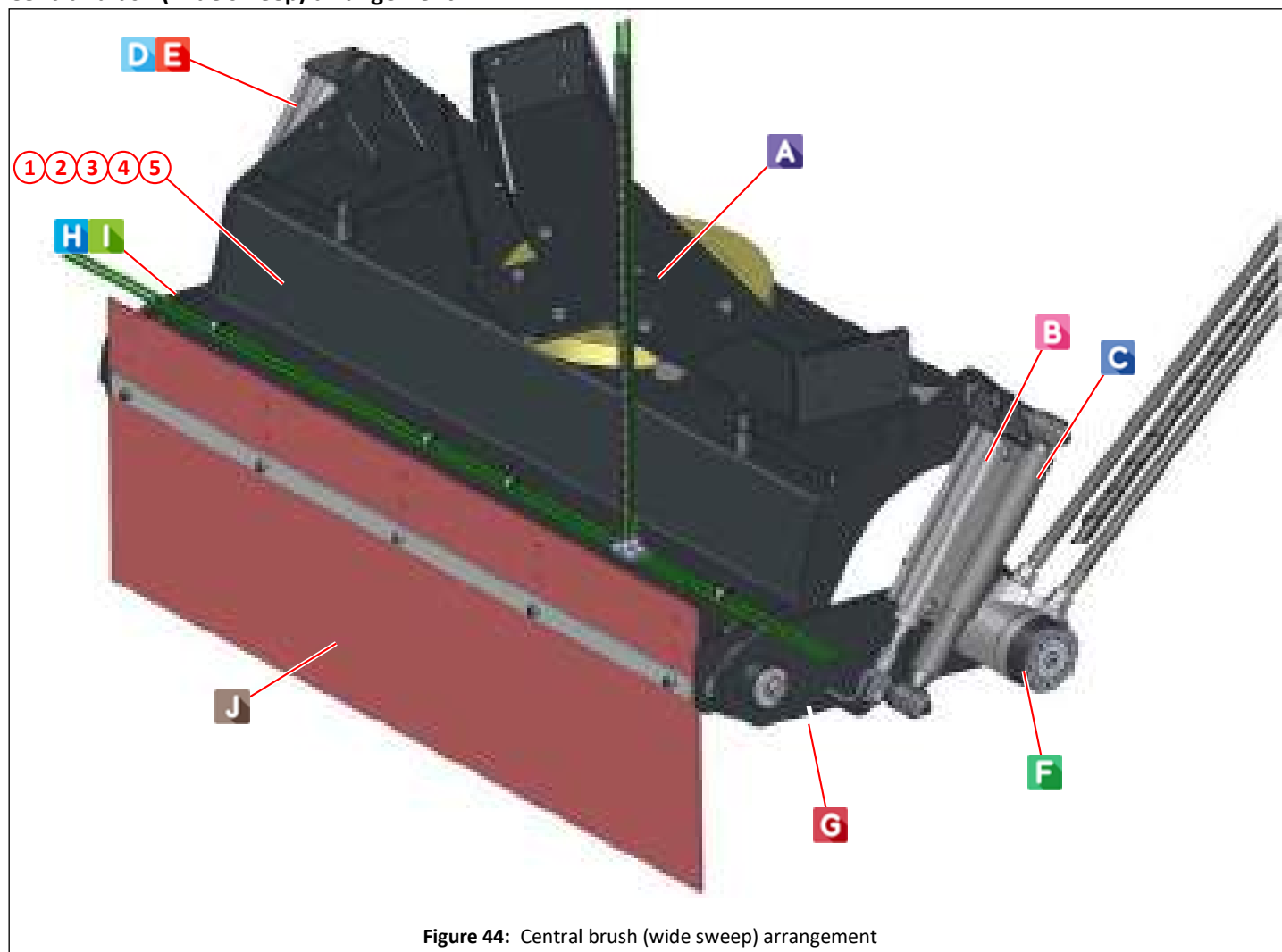


Figure 44: Central brush (wide sweep) arrangement

Item	Part No	Qty	Description	
1	SCA049069		Central brush (wide sweep) assembly left hand fixed slew	
2	SCA049070		Central brush (wide sweep) assembly right hand fixed slew	
3	SCA048987		Central brush (wide sweep) assembly slewing	
4	SCA049071		Central brush (wide sweep) assembly right hand fixed slew, extended +200mm	
5	SCA049072		Central brush (wide sweep) assembly slewing, extended +200mm	
A			Fixed slew arrangement	65
B			Pneumatic lift cylinder left hand	69
C			Shock absorber left hand	70
D			Pneumatic lift cylinder right hand	74
E			Shock absorber right hand	75
F			Motor	71
G			Motor mounting plate	72
H			Brush bearing	78
I			Brush bearing mounting plate	76
J			Wide sweep skirt	63

Skirt, central brush (wide sweep)

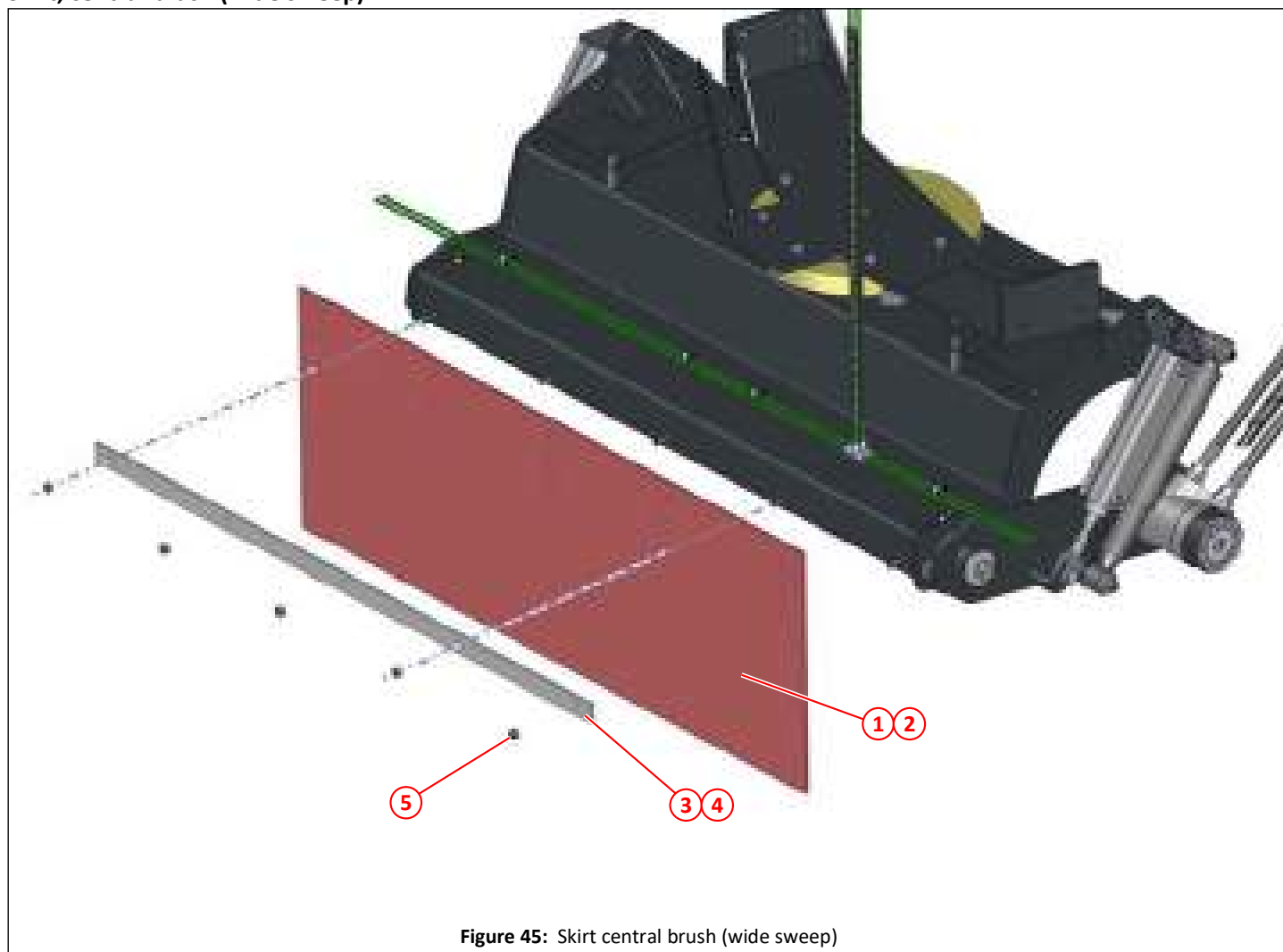


Figure 45: Skirt central brush (wide sweep)

Item	Part No	Qty	Description	
1	SCA022516	1	Skirt, central brush (wide sweep)	
2	SCA026026	1	Skirt, central brush (wide sweep), extended +200mm	
3	SCA022517	1	Clamp bar, skirt, central brush (wide sweep)	
4	SCA026025	1	Clamp bar, skirt, central brush (wide sweep), extended +200mm	
5	SCA011073	5	Nyloc nuts, M8	

Hoses and pipes, central brush (wide sweep)

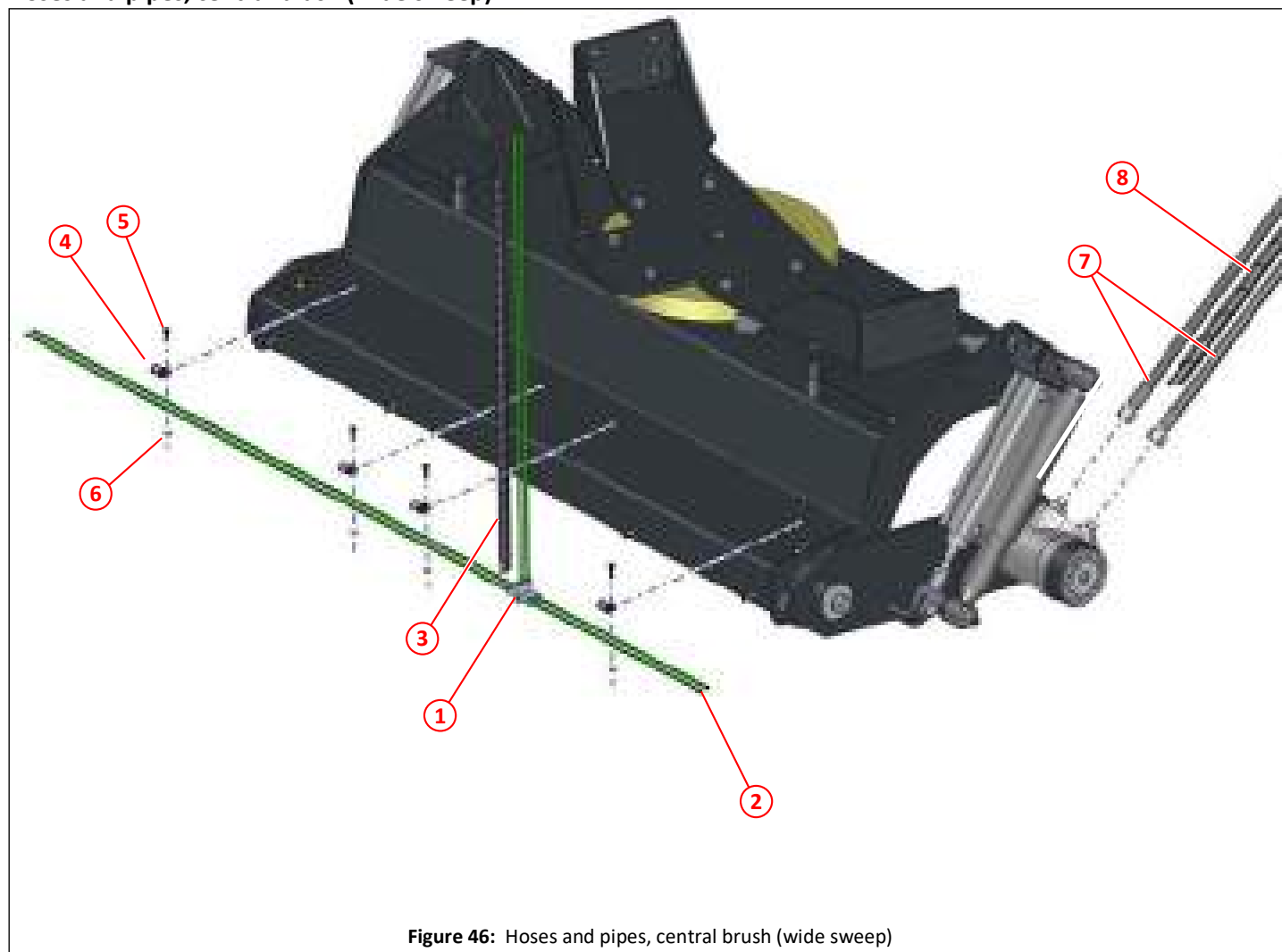


Figure 46: Hoses and pipes, central brush (wide sweep)

Item	Part No	Qty	Description	
1	SCA024647	2	Tee, grey, 6mm	
2	SCA024650	6	Air pipe, 6mm green, cut to length required	
3	SCA004161	1	Flex cable conduit (split) ø15.7 OD, cut to length required	
4	SCA021914	4	Clip, ø12, rubber sealed	
5	SCA000234	4	Pan head, Pozidriv, set screw M5 x16, black	
6	SCA000155	4	Nyloc nut, M5	
7	SCA001254	2	Hose, 3/8" x 1500, straight and 90° connectors	
8	SCA004210	1	Flex cable conduit (split) ø21 OD, cut to length required	

Fixed slew, central brush (wide sweep)

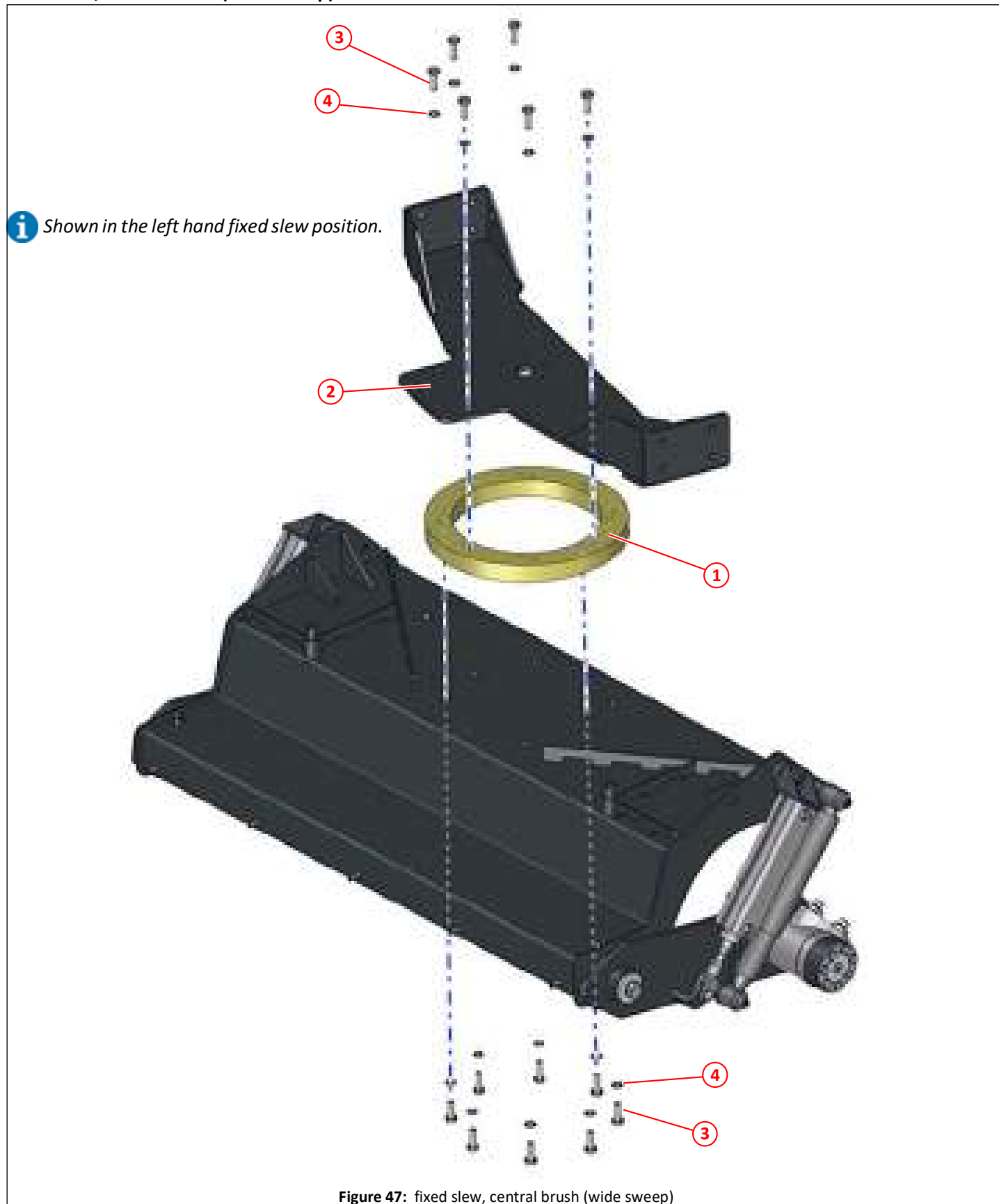


Figure 47: fixed slew, central brush (wide sweep)

Item	Part No	Qty	Description	
1	SCA020919	1	Adapter ring, fixed slew, central brush (wide sweep)	
2	SCA024155	1	Support mounting, central brush (wide sweep)	
3	SCA011032	14	Set screw HT M10 x30	
4	SCA011095	14	Spring washer M10	

Slew bearing arrangement, central brush (wide sweep)

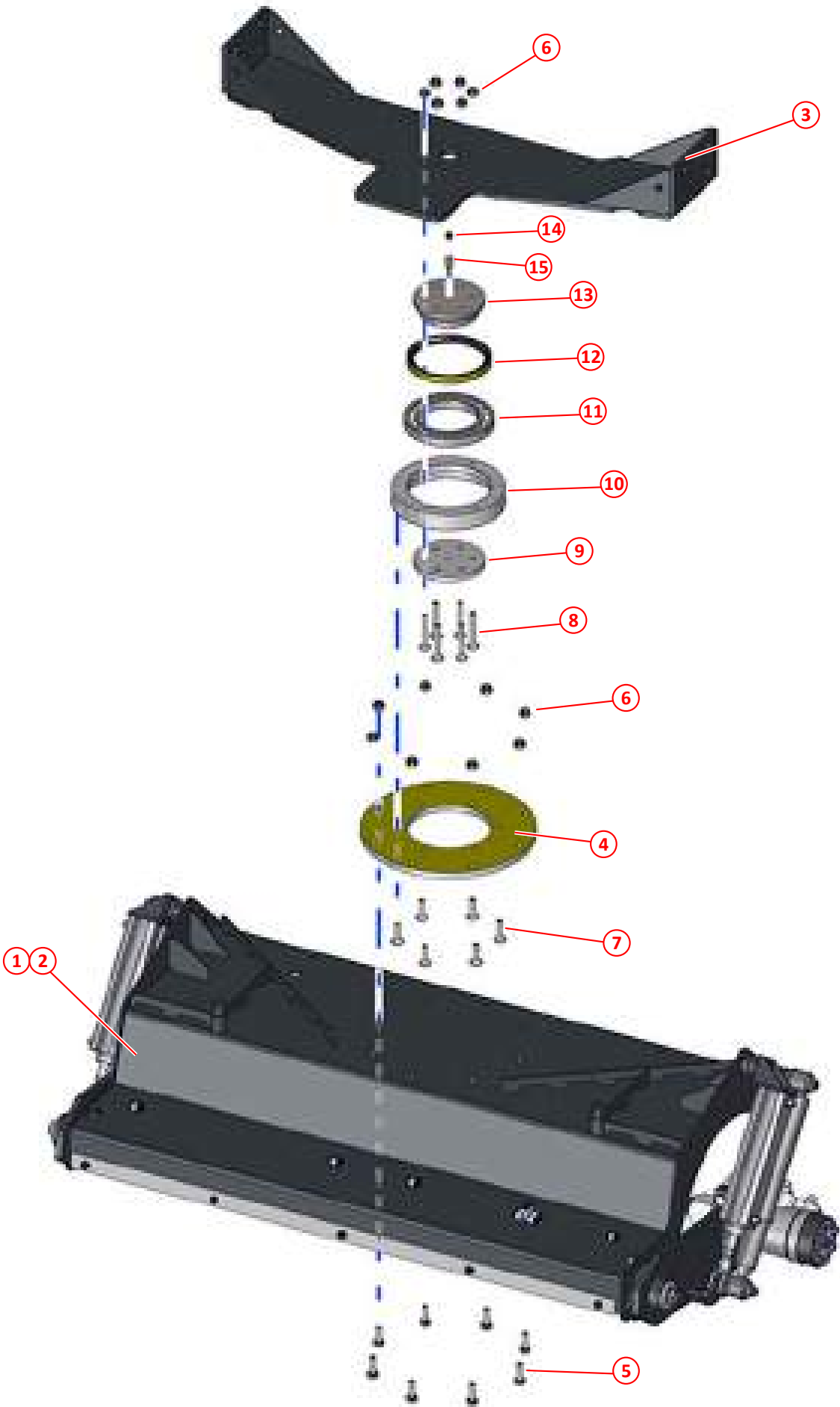


Figure 48: Slew bearing arrangement, central brush (wide sweep)

Item	Part No	Qty	Description	
1	SCA036216	1	Cover, central brush (wide sweep)	
2	SCA037173	1	Cover, central brush (wide sweep), extended +200mm	
3	SCA024155	1	Support bracket, central brush (wide sweep)	
4	SCA024154	1	Clamp ring, central brush (wide sweep)	
5	SCA011032	8	Setscrew HT M10 x 30	
6	SCA011075	14	Nyloc nut M10	
7	SCA000546	6	Countersunk socket screw M10 x 35	
8	SCA000183	6	Countersunk socket screw M10 x65	
9	SCA024151	1	Clamp plate, central brush (wide sweep)	
10	SCA024152	1	Bearing housing, central brush (wide sweep)	
11	SCA024149	1	Bearing, ball, 100*150*16 (16020)	
12	SCA024148	1	Oil seal 120*140*13	
13	SCA024150	1	Spigot, central brush (wide sweep)	
14	SCA010903	1	Grease nipple 1/8" BSP STR	
15	SCA040301	1	Grease nipple extension 1/8" BSP	

Slew rams, central brush (wide sweep)

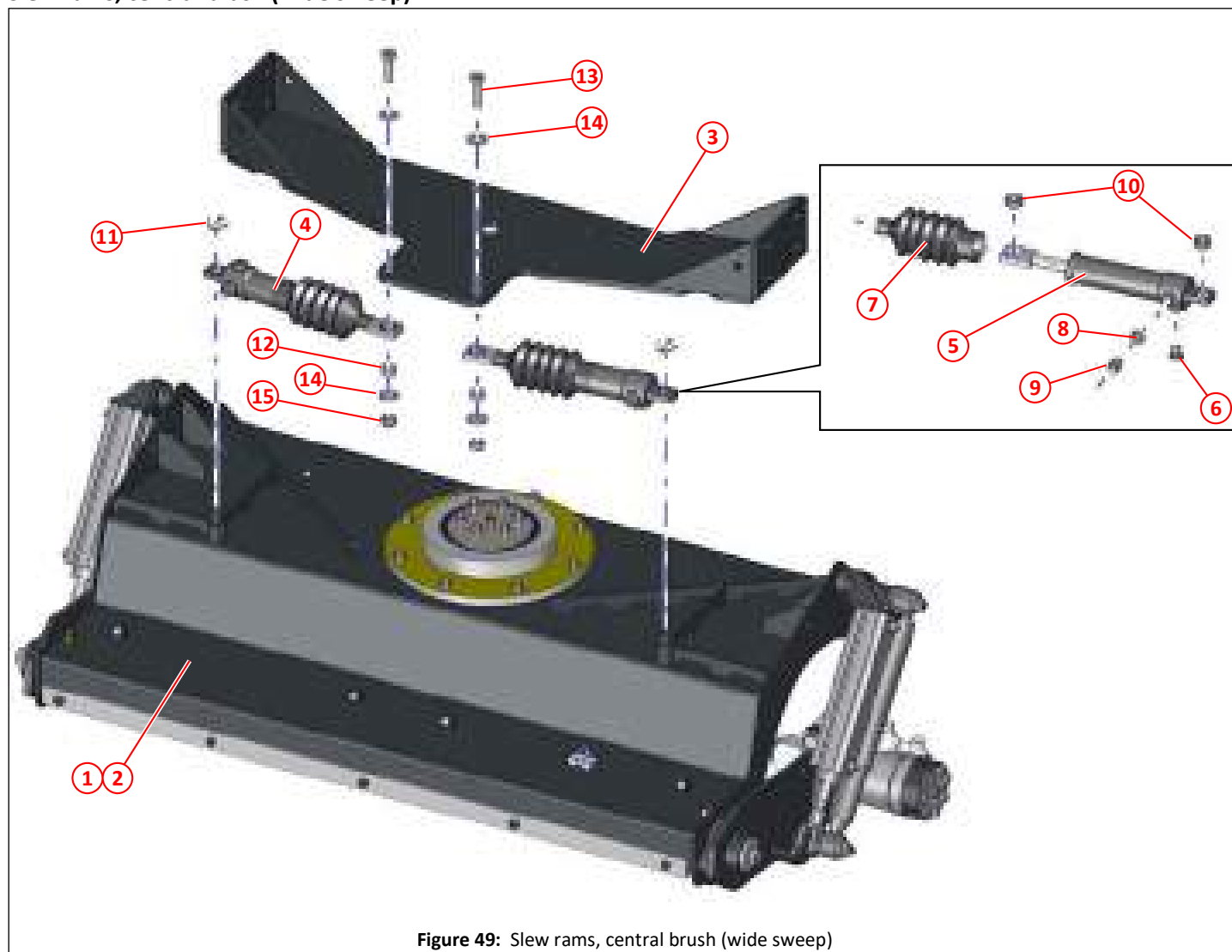


Figure 49: Slew rams, central brush (wide sweep)

Item	Part No	Qty	Description	
1	SCA036216	1	Cover, central brush (wide sweep)	
2	SCA037173	1	Cover, central brush (wide sweep), extended +200mm	
3	SCA024155	1	Support bracket, central brush (wide sweep)	
4	SCA024539	2	Ram No. 12 240/340	
5	SCA010009	1	Ram 240/340	
6	SCA002016	1	Plug, hex socket 1/4" BSP	
7	SCA014473	1	Ram bellows	
8	SCA011152	1	Dowty seal 1/4" BSP	
9	SCA012539	1	Restrictor No. 5 1/4" x 1/4" BSP 1/32" WHITE	
10	SCA024682	2	Bush 25 x 20 x 10	
11	SCA011122	2	Split pin 3/16" x 1 1/2"	
12	SCA011724	2	Spacer 20 x 12.5 x 11	
13	SCA011069	2	Bolt M12 x 40	
14	SCA011096	4	Washer M12	
15	SCA011077	2	Nyloc nut M12	

Pneumatic cylinder left hand, central brush (wide sweep)

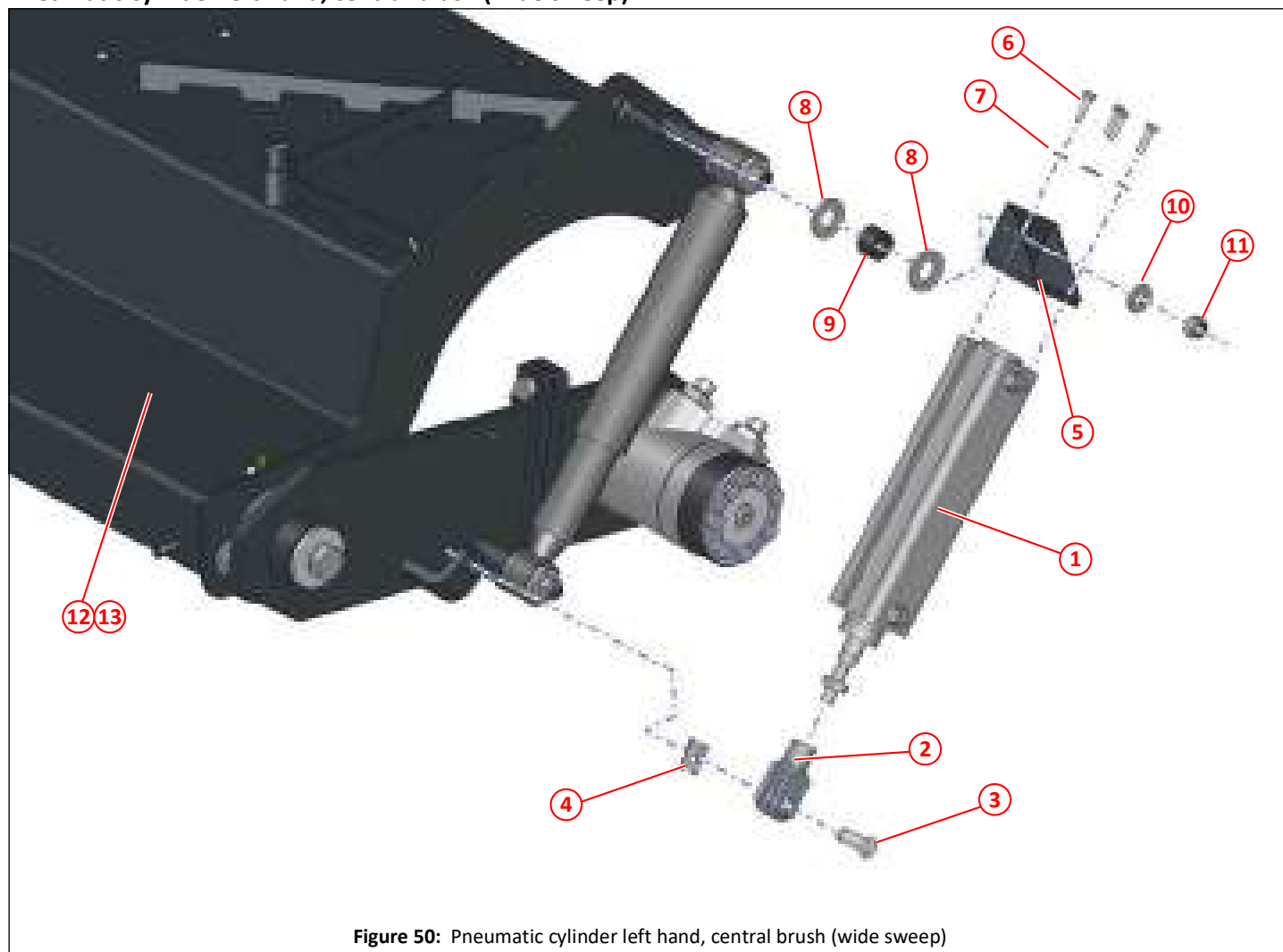


Figure 50: Pneumatic cylinder left hand, central brush (wide sweep)

Item	Part No	Qty	Description	
1	SCA020602	1	Pneumatic cylinder 40 x125, includes locknut	
2	SCA014469	1	Clevis, air cylinder, M12	
3	SCA023270	1	Clevis pin ø12	
4	SCA023269	1	Safety fastener ø12	
5	SCA030532	1	Air ram mounting bracket, central brush (wide sweep)	
6	SCA011067	4	Set screw HT M6 x20	
7	SCA011091	4	Spring washer M6	
8	SCA011135	2	Plain washer M16	
9	SCA011000	1	Spacer, buffer - Hose, $\frac{5}{8}$ fuel SAE100R6, cut to 16mm	
10	SCA011094	1	Plain washer M10	
11	SCA011075	1	Nyloc nut, M10	
12	SCA036216	1	Cover, central brush (wide sweep)	
13	SCA037173	1	Cover, central brush (wide sweep), extended +200mm	

Shock absorber, left hand, central brush (wide sweep)

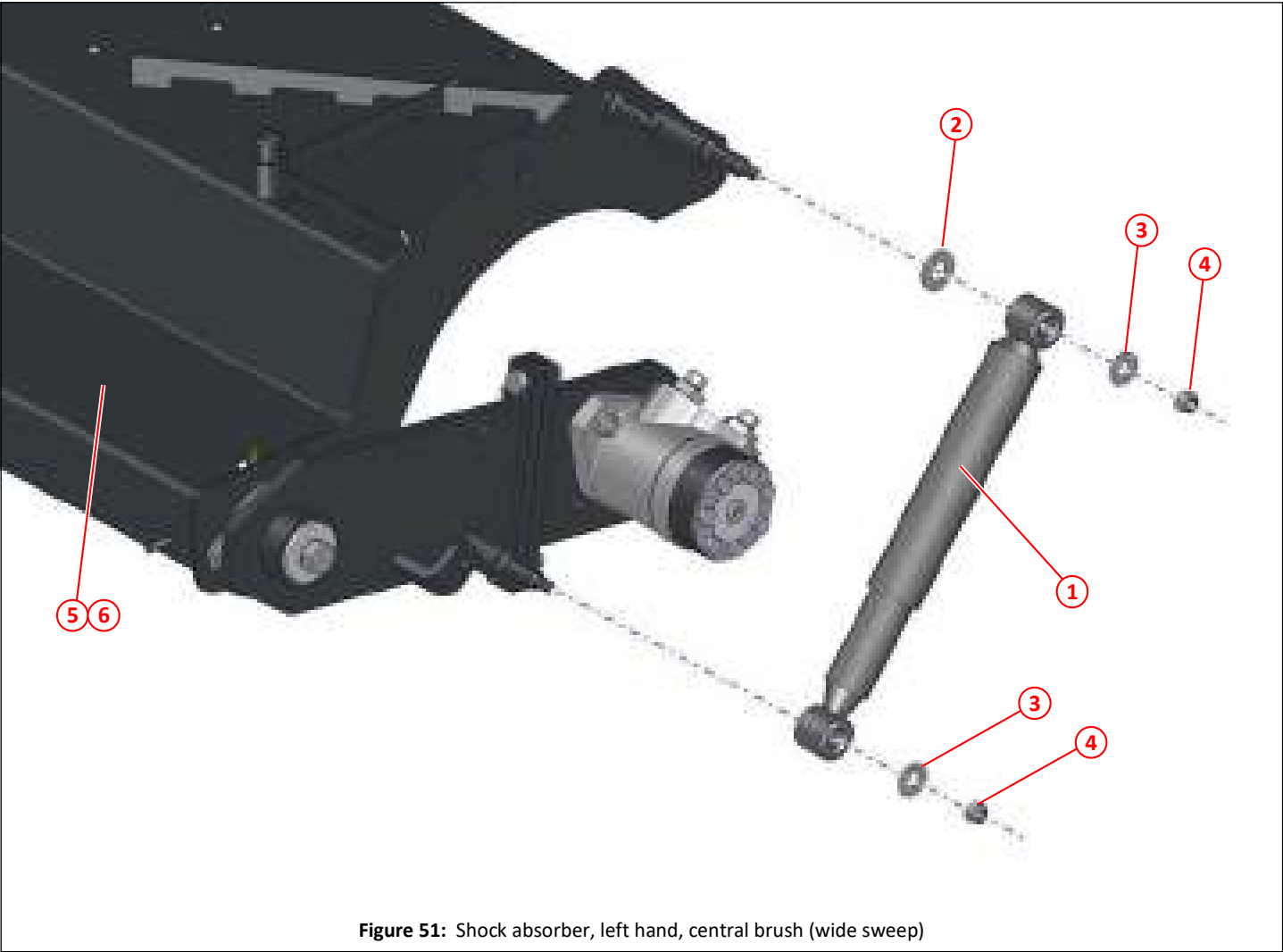


Figure 51: Shock absorber, left hand, central brush (wide sweep)

Item	Part No	Qty	Description	
1	SCA014063	1	Shock absorber 320/500	
2	SCA011135	1	Plain washer M16	
3	SCA011096	2	Plain washer M12	
4	SCA011075	2	Nyloc nut M10	
5	SCA036216	1	Cover, central brush (wide sweep)	
6	SCA037173	1	Cover, central brush (wide sweep), extended +200mm	

Motor mounting, left hand, central brush (wide sweep)

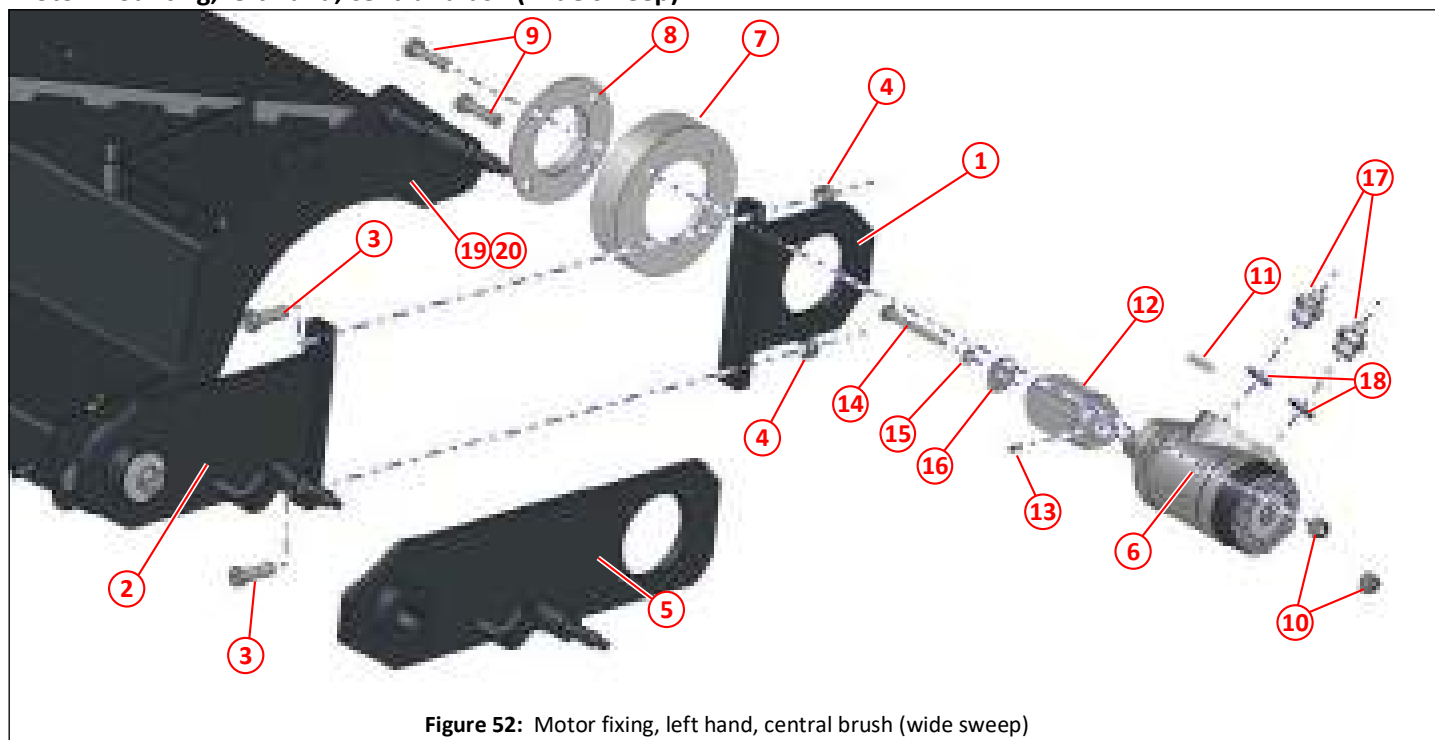


Figure 52: Motor fixing, left hand, central brush (wide sweep)

Item	Part No	Qty	Description
1	SCA048978	1	Motor fixing plate
2	SCA048977	1	Motor plate left hand
3	SCA011069	2	Bolt M12 x 40
4	SCA011077	2	Nyloc nut M12
5	SCA023077	1	Motor plate left hand (old Type)
6	SCA010566	1	Motor 3596 (OMP 100)
7	SCA049483	1	Motor guard bracket
8	SCA046472	1	Motor guard
9	SCA011054	2	Set screw HT M12 x45
10	SCA011077	2	Nyloc nut M12
11	SCA011515	1	Key - Parallel, square 1/4" x 1 1/4", round ends
12	SCA024535	1	Drive shaft
13	SCA011112	1	Socket set screw M6 x 12
14	SCA011415	1	Bolt M8 x 80
15	SCA011093	1	Spring washer M8
16	SCA024538	1	Cone washer
17	SCA011167	2	Adapter 1/2" x 3/8" BSP
18	SCA011154	2	Dowty seal 1/2" BSP
19	SCA036216	1	Cover, central brush (wide sweep)
10	SCA037173	1	Cover, central brush (wide sweep), extended +200mm

i Please identify which motor plate style you have before ordering. If in doubt contact the Scarab Parts Department.

i If you have item 5 this has been replaced with a new assembly, please order **SCA023077RETROFIT** which contains items 1, 2, 3, 4, 7, and 8. This will ensure you get all the required parts to replace item 1.

Motor plate, left hand, central brush (wide sweep)

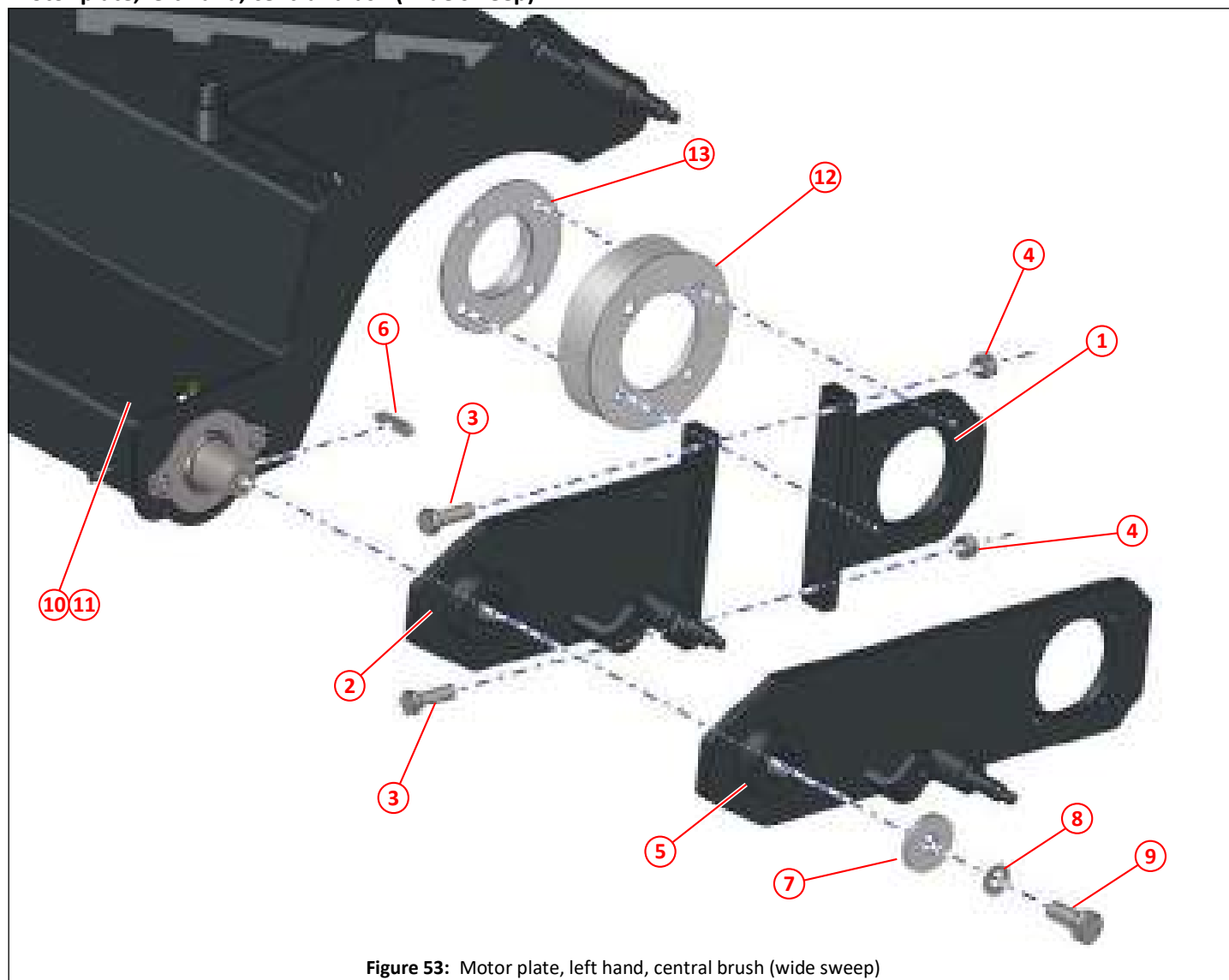


Figure 53: Motor plate, left hand, central brush (wide sweep)

Item	Part No	Qty	Description	
1	048978	1	Motor fixing plate	
2	048977	1	Motor plate left hand	
3	011069	2	Bolt M12 x 40	
4	011077	2	Nyloc nut M12	
5	023077	1	Motor plate left hand (old type)	
6	013292	1	Key - Parallel, rectangular, 8 x 7 x 40, round ends	
7	013439	1	Washer, $\phi 50 \times \phi 16.5 \times 5$	
8	011142	1	Spring washer M61	
9	011141	1	Bolt M16 x 35	
10	036216	1	Cover, central brush (wide sweep)	
11	037173	1	Cover, central brush (wide sweep), extended +200mm	
12	049483	1	Motor guard bracket	
13	046472	1	Motor guard	

i Please identify which motor plate style you have before ordering. If in doubt contact the Scarab Parts Department.

i If you have item 5 this has been replaced with a new assembly, please order **SCA023077RETROFIT** which contains items 1, 2, 3, 4, 12, and 13. This will ensure you get all the required parts to replace item 5.

Spherical bearing, left hand, central brush (wide sweep)

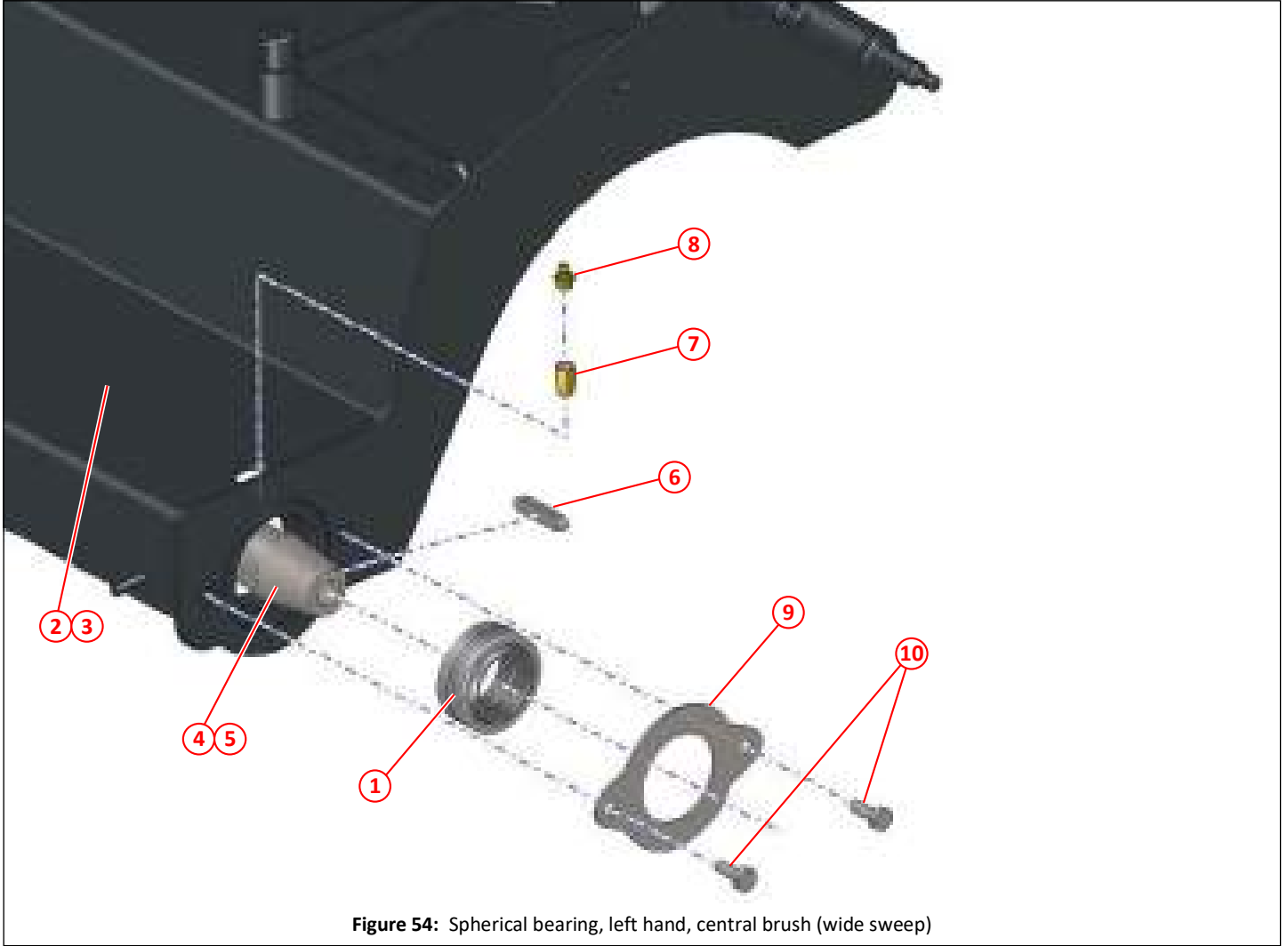


Figure 54: Spherical bearing, left hand, central brush (wide sweep)

Item	Part No	Qty	Description	
1	SCA036789	1	Spherical bearing, central brush (wide sweep)	
2	SCA036216	1	Cover, central brush (wide sweep)	
3	SCA037173	1	Cover, central brush (wide sweep), extended +200mm	
4	SCA023080	1	Shaft, taper, central brush (wide sweep)	
5	SCA025632	1	Shaft, taper, central brush (wide sweep), extended +200mm	
6	SCA013292	1	Key - Parallel, rectangular, 8 x 7 x 40, round ends	
7	SCA040301	1	Grease nipple extension 1/8" BSP	
8	SCA010903	1	Grease nipple 1/8" BSP, straight	
9	SCA037172	1	Retainer plate, spherical bearing, central brush (wide sweep)	
10	SCA011010	2	Set screw HT M8 x 20	

Pneumatic cylinder, right hand, central brush (wide sweep)

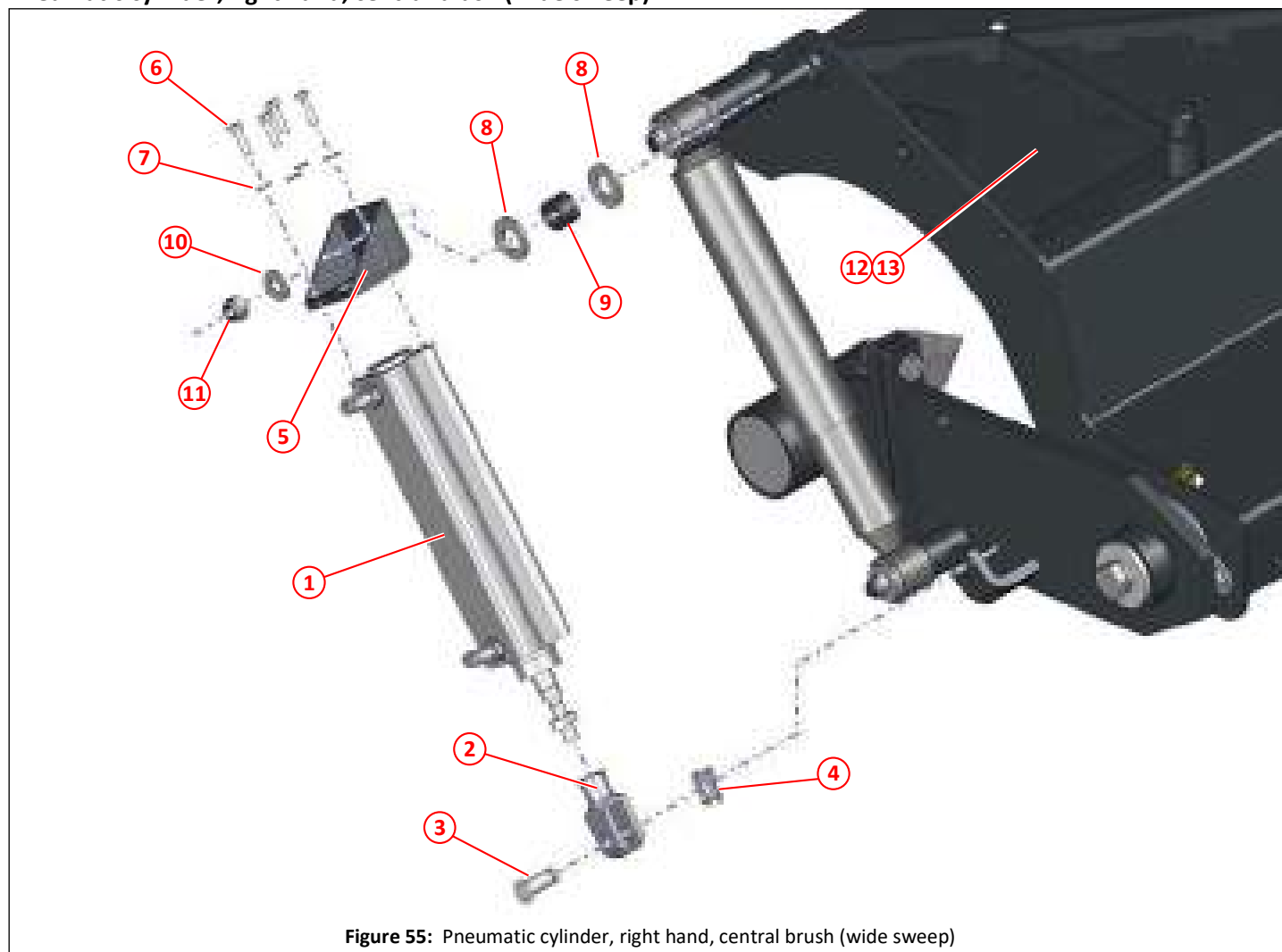


Figure 55: Pneumatic cylinder, right hand, central brush (wide sweep)

Item	Part No	Qty	Description	
1	SCA020602	1	Pneumatic cylinder 40 x125, includes locknut	
2	SCA014469	1	Clevis, air cylinder, M12	
3	SCA023270	1	Clevis pin ø12	
4	SCA023269	1	Safety fastener ø12	
5	SCA030532	1	Air ram mounting bracket, central brush (wide sweep)	
6	SCA011067	4	Set screw HT M6 x20	
7	SCA011091	4	Spring washer M6	
8	SCA011135	2	Plain washer M16	
9	SCA011000	1	Spacer, buffer - Hose, 5/8" fuel SAE100R6, cut to 16mm	
10	SCA011094	1	Plain washer M10	
11	SCA011075	1	Nyloc nut, M10	
12	SCA036216	1	Cover, central brush (wide sweep)	
13	SCA037173	1	Cover, central brush (wide sweep), extended +200mm	

Shock absorber, right hand, central brush (wide sweep)

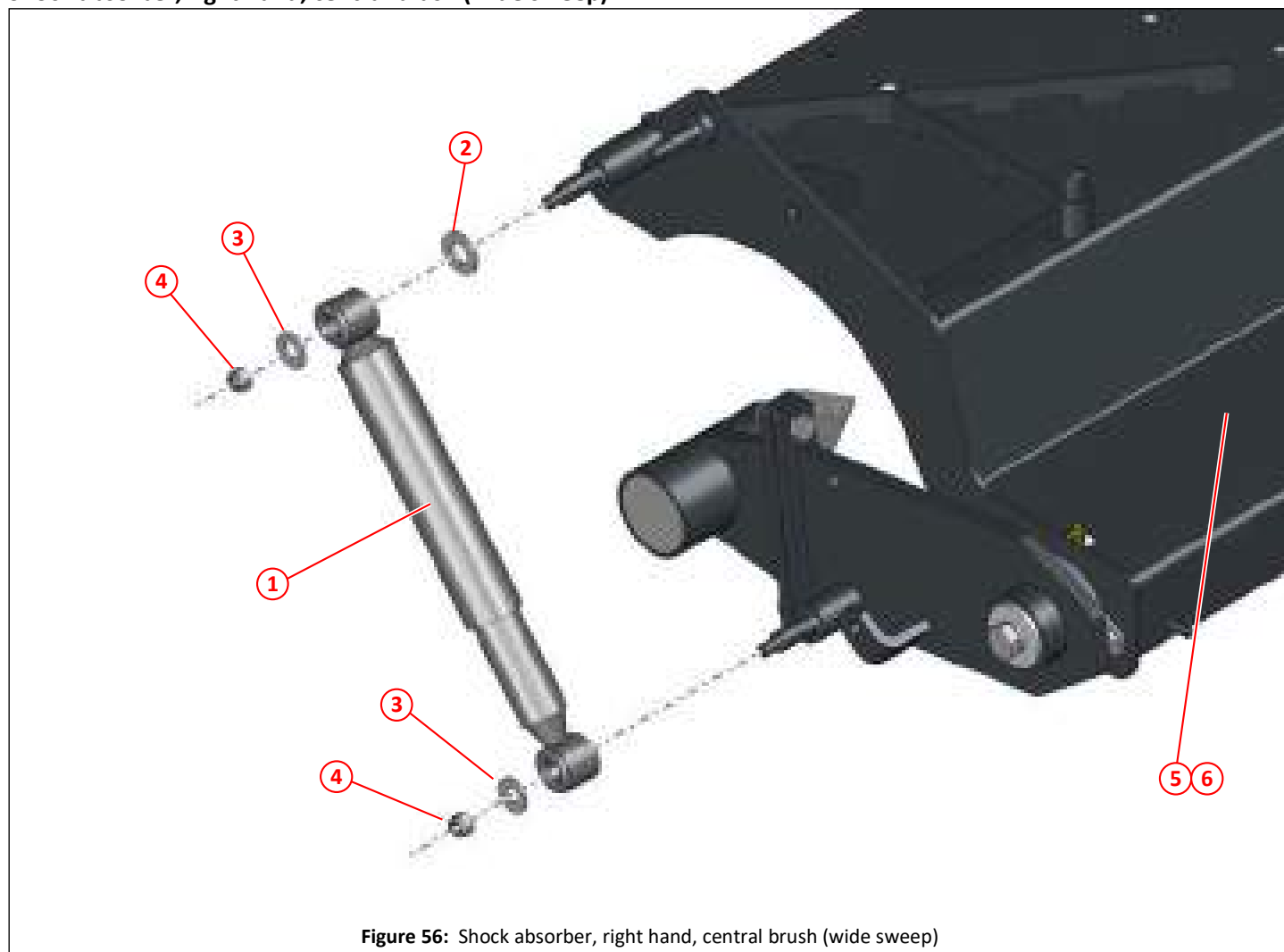


Figure 56: Shock absorber, right hand, central brush (wide sweep)

Item	Part No	Qty	Description	
1	SCA014063	1	Shock absorber 320/500	
2	SCA011135	1	Plain washer M16	
3	SCA011096	2	Plain washer M12	
4	SCA011075	2	Nyloc nut M10	
5	SCA036216	1	Cover, central brush (wide sweep)	
6	SCA037173	1	Cover, central brush (wide sweep), extended +200mm	

Brush bearing mounting, right hand, central brush (wide sweep)

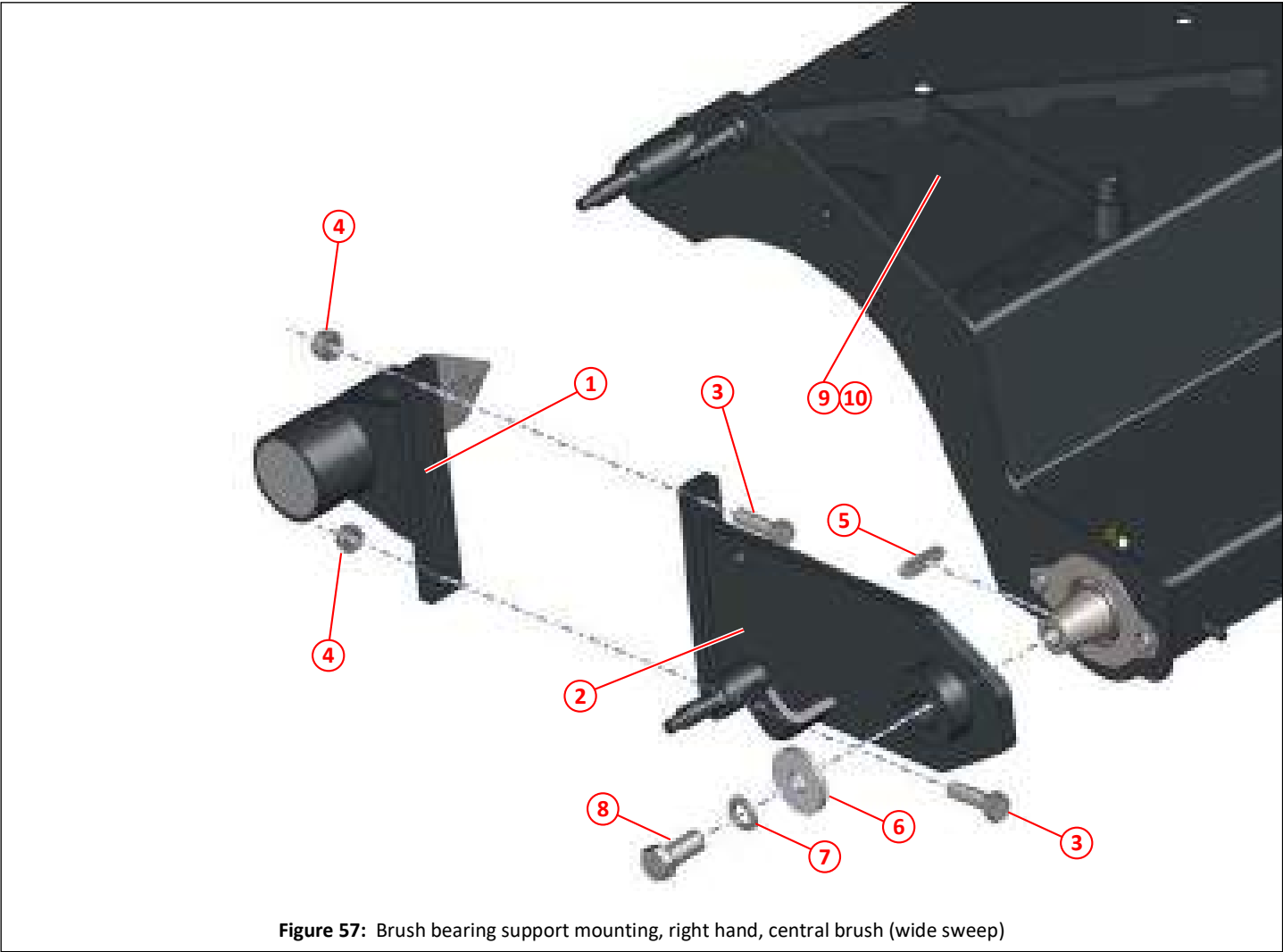


Figure 57: Brush bearing support mounting, right hand, central brush (wide sweep)

Item	Part No	Qty	Description	
1	SCA024224	1	Brush bearing support assembly, central brush (wide sweep)	78
2	SCA023078	1	Motor plate right hand	
3	SCA011069	2	Bolt M12 x 40	
4	SCA011077	2	Nyloc nut M12	
5	SCA013292	1	Key - Parallel, rectangular, 8 x 7 x 40, round ends	
6	SCA013439	1	Washer, ø50 x ø16.5 x 5	
7	SCA011142	1	Spring washer M61	
8	SCA011141	1	Bolt M16 x 35	
9	SCA036216	1	Cover, central brush (wide sweep)	
10	SCA037173	1	Cover, central brush (wide sweep), extended +200mm	

Spherical bearing, right hand, central brush (wide sweep)

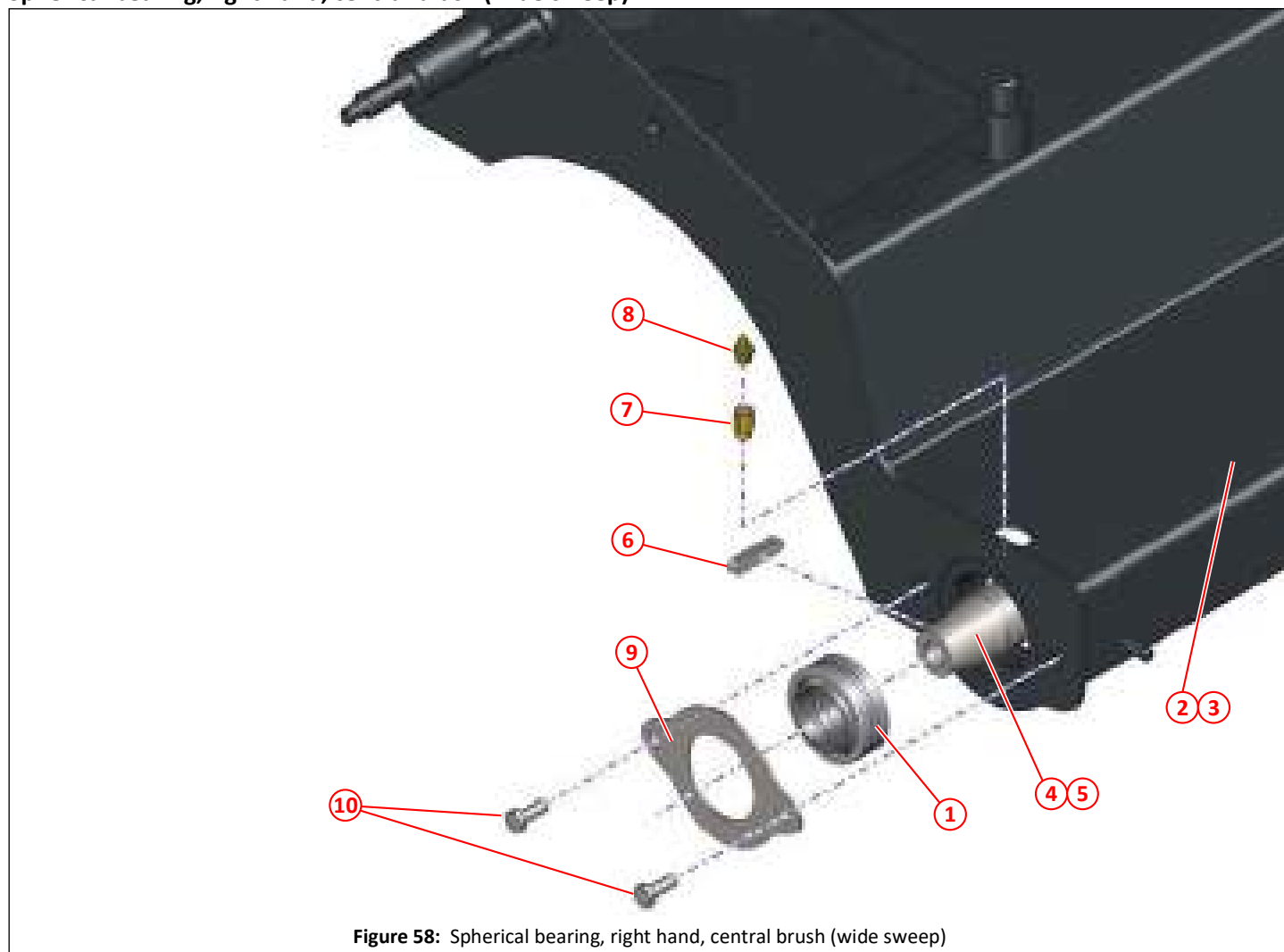
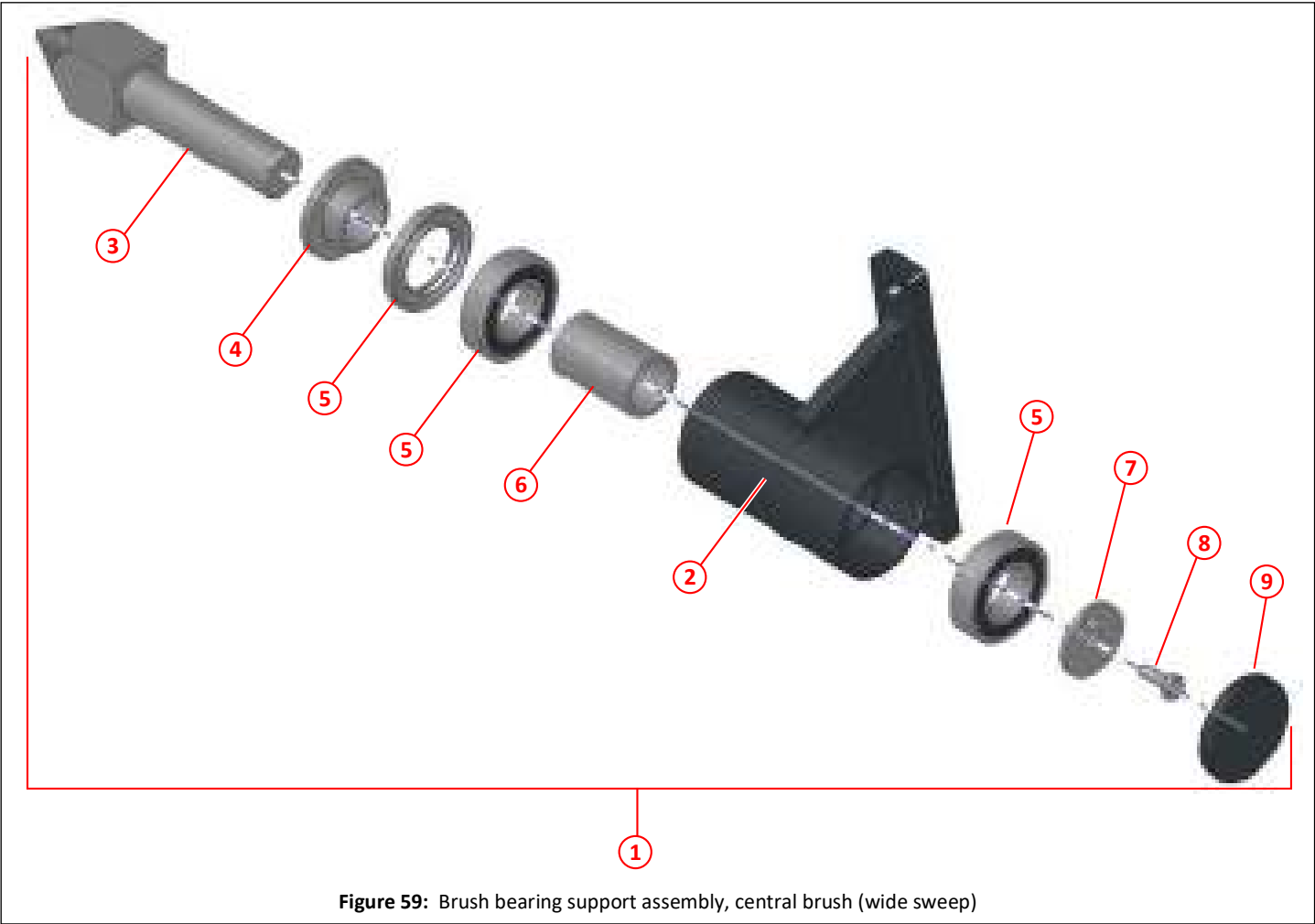


Figure 58: Spherical bearing, right hand, central brush (wide sweep)

Item	Part No	Qty	Description	
1	SCA036789	1	Spherical bearing, central brush (wide sweep)	
2	SCA036216	1	Cover, central brush (wide sweep)	
3	SCA037173	1	Cover, central brush (wide sweep), extended +200mm	
4	SCA023080	1	Shaft, taper, central brush (wide sweep)	
5	SCA025632	1	Shaft, taper, central brush (wide sweep), extended +200mm	
6	SCA013292	1	Key - Parallel, rectangular, 8 x 7 x 40, round ends	
7	SCA040301	1	Grease nipple extension $\frac{1}{8}$ " BSP	
8	SCA010903	1	Grease nipple 1/8"BSP, straight	
9	SCA037172	1	Retainer plate, spherical bearing, central brush (wide sweep)	
10	SCA011010	2	Set screw HT M8 x 20	

Brush bearing support assembly, central brush (wide sweep)



Item	Part No	Qty	Description	
1	SCA024224	1	Bearing assembly, central brush (wide sweep)	
2	SCA024219	1	Bearing housing, central brush (wide sweep)	
3	SCA024223	1	Shaft, bearing, central brush (wide sweep)	
4	SCA024221	1	Spacer ø60 x ø30 x 20	
5	SCA010578	2	Bearing, ball, 6206 2Z	
6	SCA024531	1	Spacer ø38 x ø31 x 58	
7	SCA010004	1	Washer ø45 x ø9 x 4	
8	SCA011010	1	Setscrew M8 x 20	
9	SCA024222	1	Bearing cap	

Brush assembly, central brush (wide sweep), standard, 320mm dia x 1035mm long

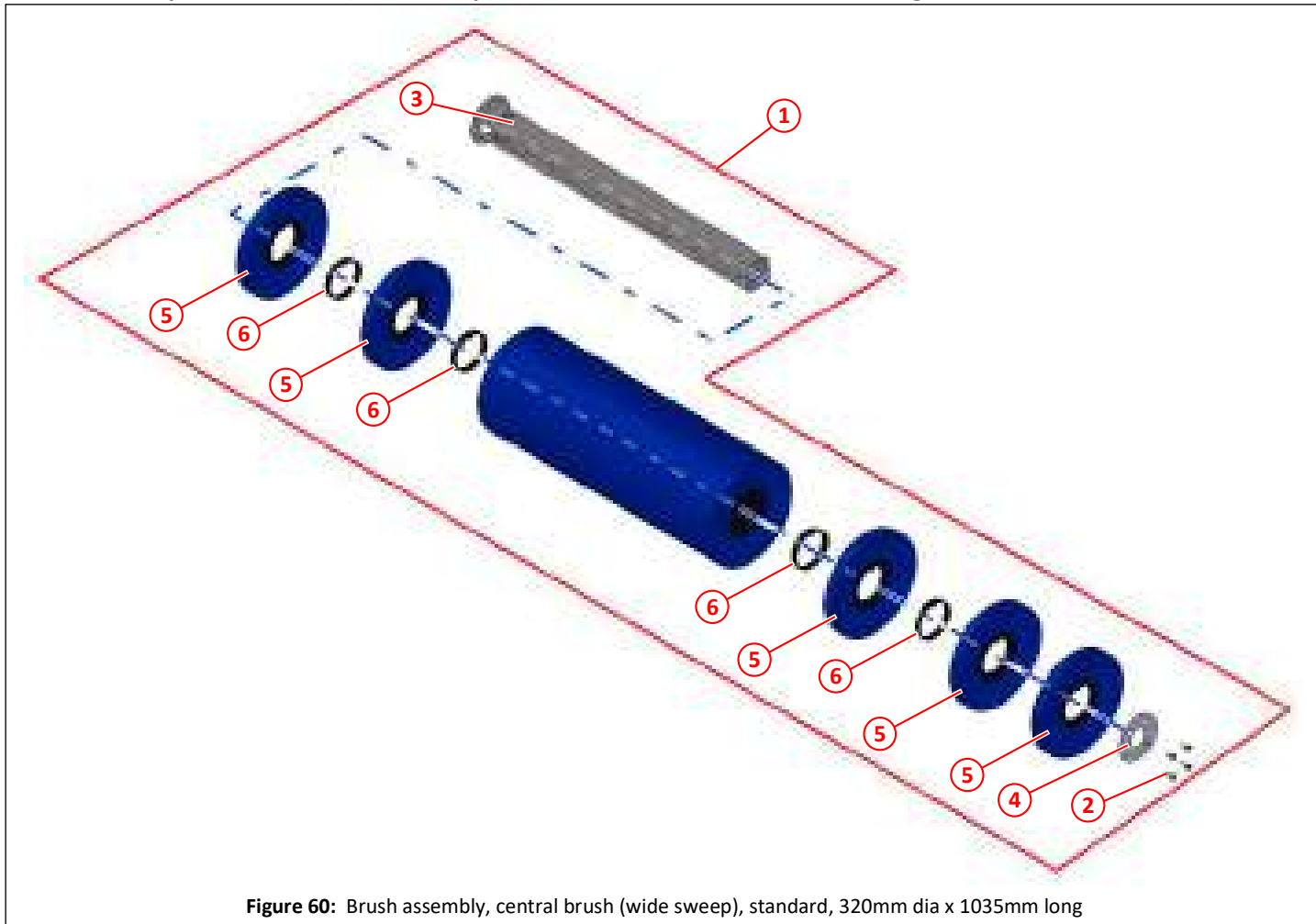


Figure 60: Brush assembly, central brush (wide sweep), standard, 320mm dia x 1035mm long

Item	Part No	Qty	Description	
1	SCA023168	1	Assembly, brush core large 3/5/6000	
2	SCA011417	4	Screw socket cap 3/8 UNC x 1"	
3	SCA013646	1	Brush core widesweep Majors	
4	SCA013649	1	End plate, brush core	
5	SCA023471	31	Brush fill 320 poly	
6	SCA023472	29	Brush spacer, widesweep	

Brush assembly, central brush (wide sweep), standard, 400mm dia x 1035mm long

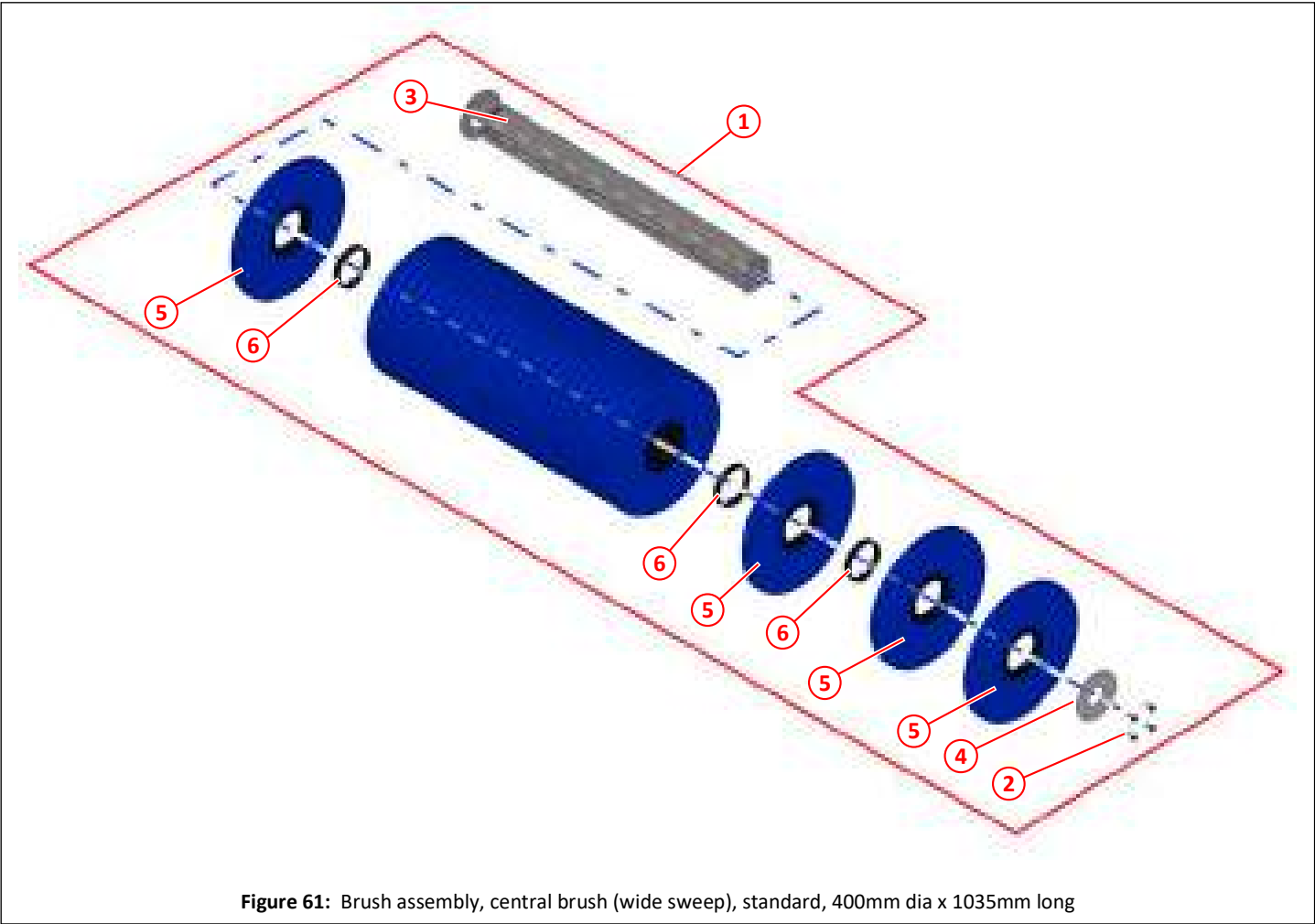


Figure 61: Brush assembly, central brush (wide sweep), standard, 400mm dia x 1035mm long

Item	Part No	Qty	Description	
1	SCA023169	1	Assembly, brush core large 7000	
2	SCA011417	4	Screw socket cap 3/8 UNC x 1"	
3	SCA013646	1	Brush core widesweep Majors	
4	SCA013649	1	End plate, brush core	
5	SCA023471	31	Brush fill 320 poly	
6	SCA023474	29	Brush spacer, widesweep	

Brush assembly, central brush (wide sweep), extended, 400mm dia x 1300mm long

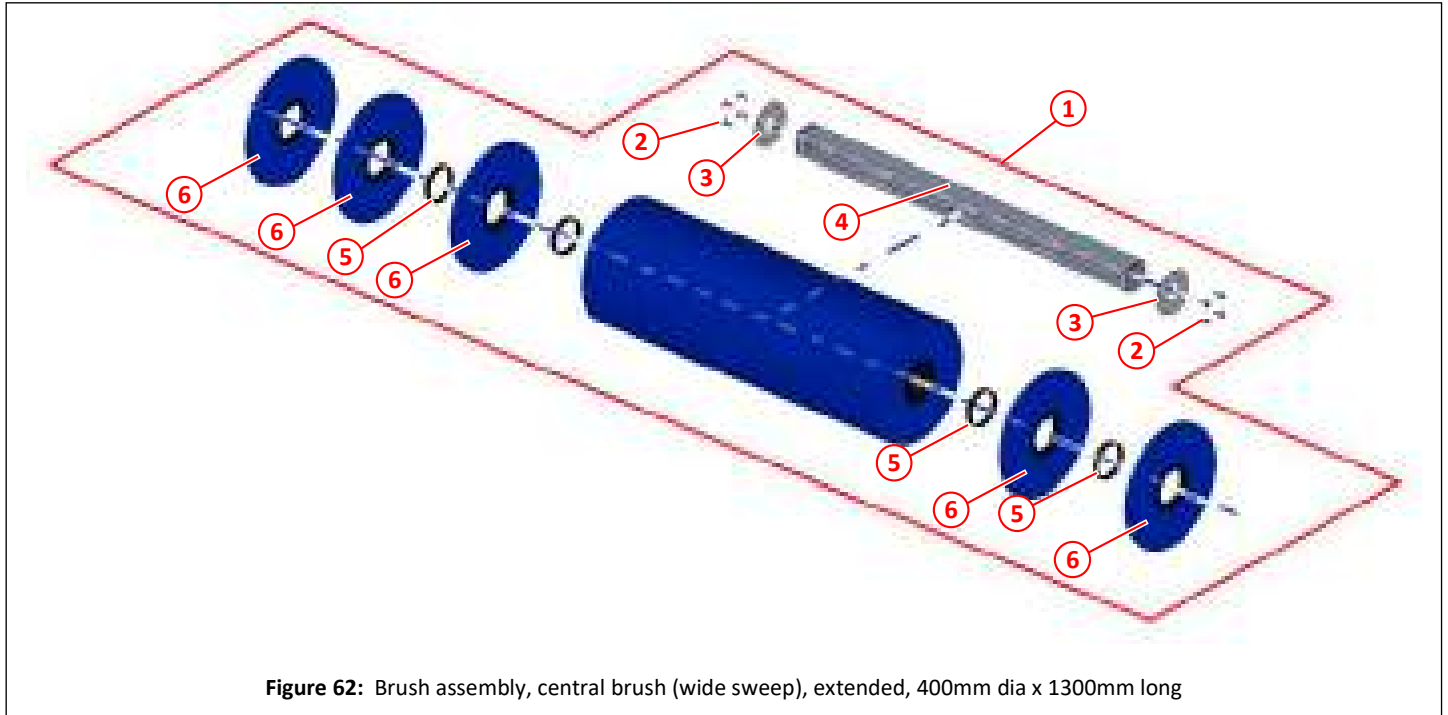


Figure 62: Brush assembly, central brush (wide sweep), extended, 400mm dia x 1300mm long

Item	Part No	Qty	Description	
1	SCA024553	1	Assembly, brush core 1300 large widesweep	
2	SCA011417	8	Screw socket cap 3/8 UNC x 1"	
3	SCA013649	2	End plate, brush core	
4	SCA021295	1	Brush core extended widesweep	
5	SCA023472	38	Brush spacer, widesweep	
6	SCA023474	40	Brush fill 400 dia poly	

Brush assembly, central brush (wide sweep), standard+200mm, 400mm dia x 1235mm long

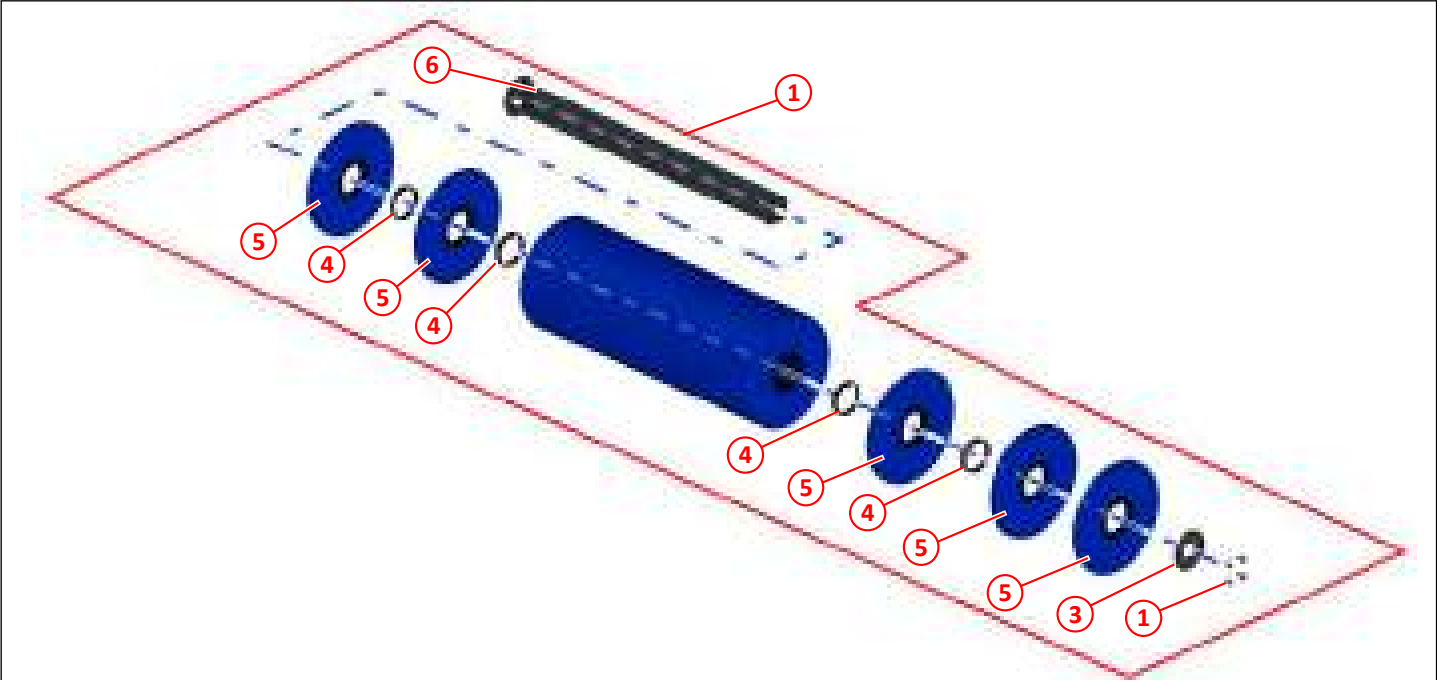


Figure 63: Brush assembly, central brush (wide sweep), standard+200mm, 400mm dia x 1235mm long

Item	Part No	Qty	Description	
1	SCA025662	1	Assembly, brush core large 80/85	
2	SCA011417	4	Screw socket cap 3/8 UNC x 1"	
3	SCA013649	1	End plate, brush core	
4	SCA023472	35	Brush spacer, widesweep	
5	SCA023474	37	Brush fill 400 dia poly	
6	SCA025642	1	Brush core extended widesweep	

Brush assembly, central brush (wide sweep), standard, dual poly, 400mm dia x 1035mm long

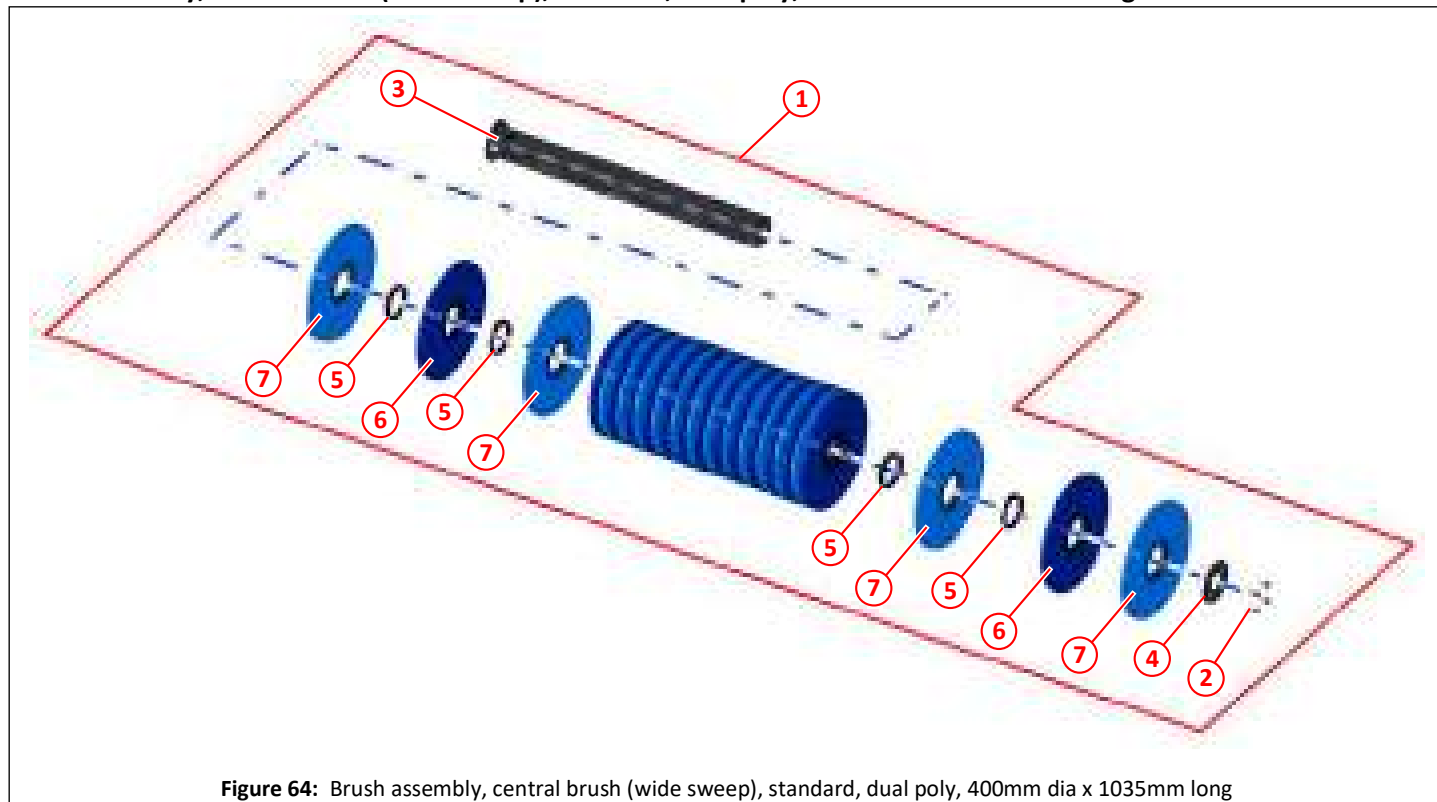


Figure 64: Brush assembly, central brush (wide sweep), standard, dual poly, 400mm dia x 1035mm long

Item	Part No	Qty	Description	
1	SCA035995	1	Assembly, widesweep core poly/poly fill 16"	
2	SCA011417	4	Screw socket cap 3/8 UNC x 1"	
3	SCA013646	1	Brush core widesweep Majors	
4	SCA013649	1	End plate, brush core	
5	SCA023472	38	Brush spacer, widesweep	
6	SCA023474	40	Brush fill 400 dia poly	
7	SCA035994	16	Widesweep refill 16" polyester	

Auxiliary brush, left hand, general arrangement

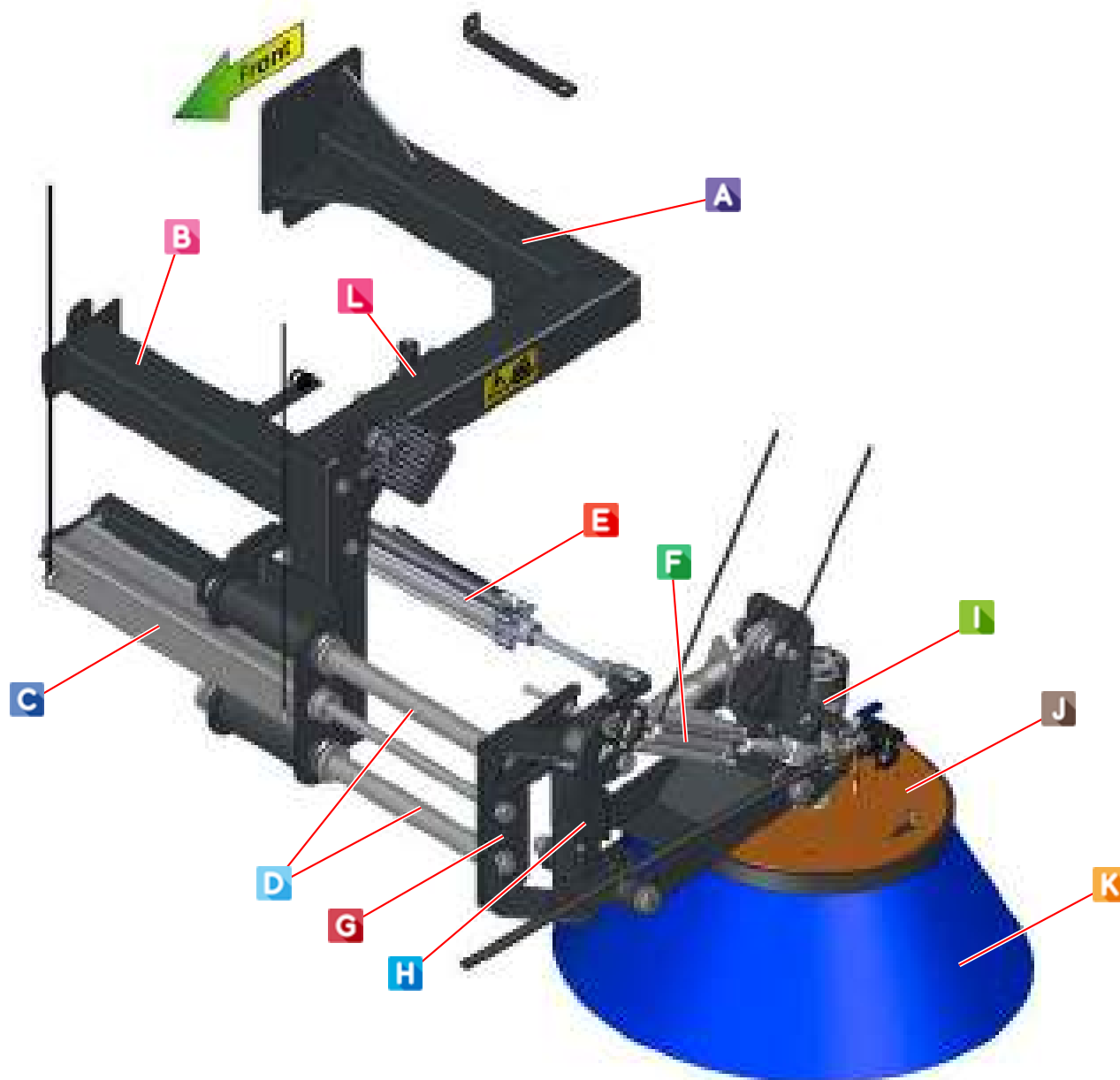


Figure 65: Auxiliary brush, left hand, general arrangement

Item	Description	
A	Brush carrier, auxiliary brush, left hand	100
B	Brush carrier support, auxiliary brush, left hand	100
C	Extend and retract pneumatic cylinder, auxiliary brush	96
D	Thrust bar, extend and retract, auxiliary brush	97
E	Swing in and out pneumatic cylinder, auxiliary brush	94
F	Raise and lower pneumatic cylinder, auxiliary brush	86
G	King post support, auxiliary brush, left hand	95
H	King post, auxiliary brush, left hand	85
I	Brush motor	90
J	Brush hub	91
K	Brush steel	91
L	Brush speed control valve	98

King post, auxiliary brush, left hand

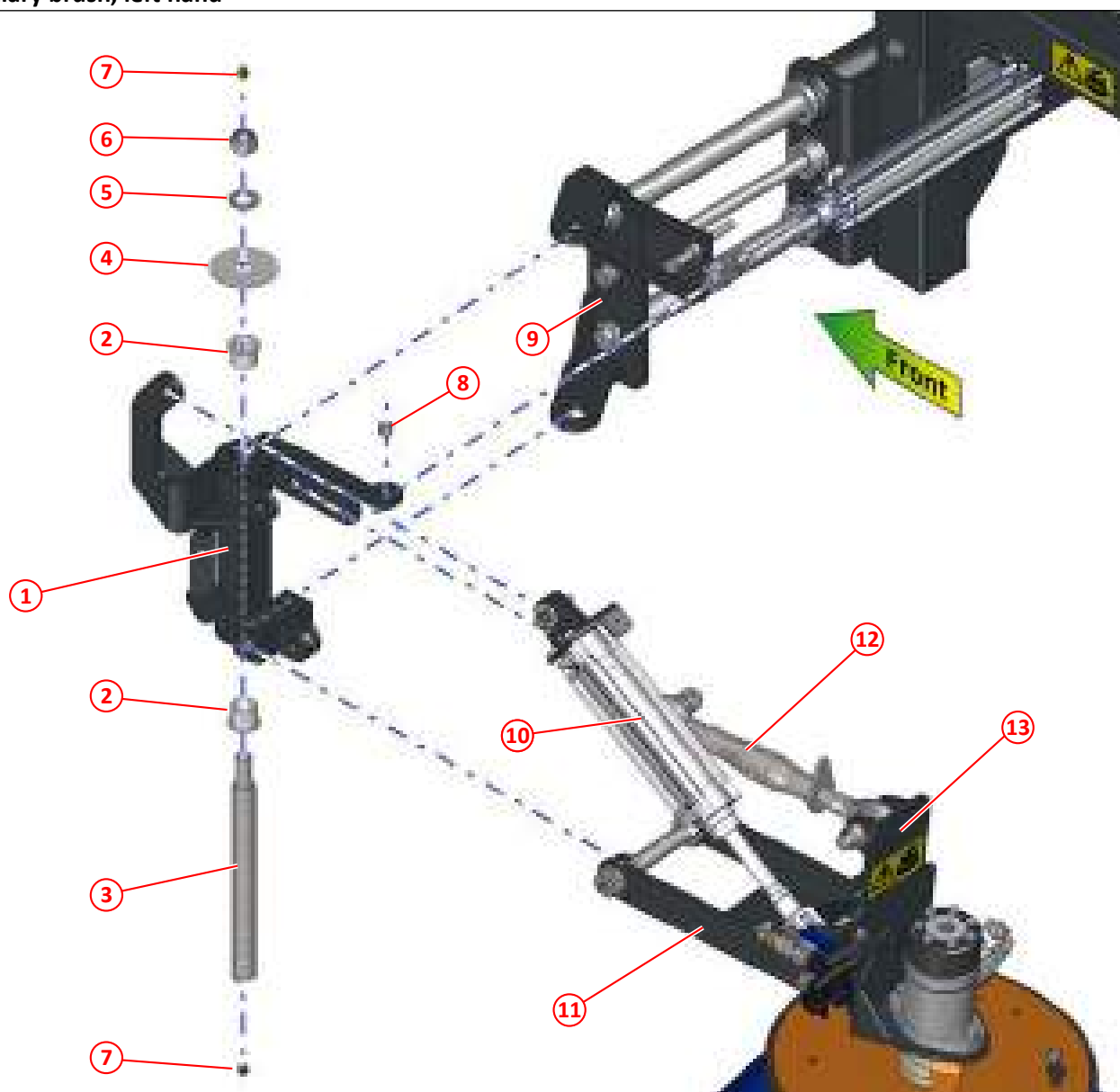


Figure 66: King post, auxiliary brush, left hand

Item	Part No	Qty	Description	
1	SCA037915	1	King post, auxiliary brush, left hand	
2	SCA013012	2	Bush	
3	SCA013007	1	King pin	
4	SCA045915	1	Dirt shield, auxiliary brush	
5	SCA011102	1	Washer M20	
6	SCA011082	1	Nyloc nut M20	
7	SCA010903	2	Grease nipple 1/8" BSP, straight	
8	SCA049696	1	Spring bush 16 x 12 x 12	
9	SCA037916	1	King post support, auxiliary brush, left hand	
10	SCA020298	1	Pneumatic cylinder 50 x160	86
11	SCA014801	1	Brush link, side brush	87
12	SCA013011	1	Top link	88
13	SCA023121	1	Swivel plate, side brush, pneumatic lift	89

Brush lift pneumatic cylinder, auxiliary brush, left hand

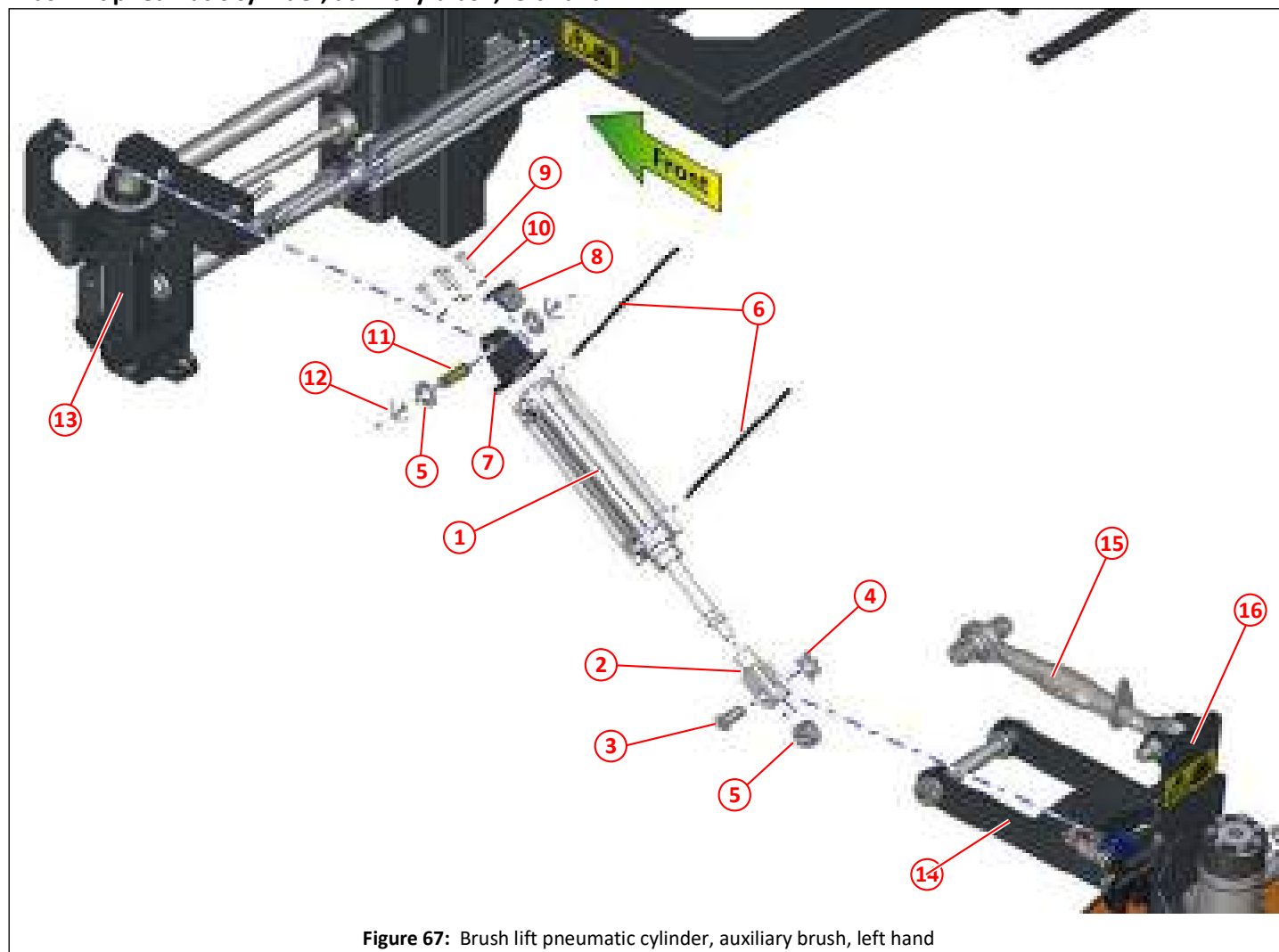


Figure 67: Brush lift pneumatic cylinder, auxiliary brush, left hand

Item	Part No	Qty	Description	
1	SCA020298	1	Pneumatic cylinder 50 x160	
2	SCA020299	1	Clevis, pneumatic M16 x1.5	
3	SCA022673	1	Clevis pin (turned)	
4	SCA022674	1	Clip, retaining M16	
5	SCA011135	4	Washer M16	
6	SCA014572	2	6mm OD x 1mm WT black air pipe	
7	SCA023122	1	Pivot, pneumatic cylinder (50 dia)	
8	SCA043191	1	Bracket, pipe retaining, auxiliary side brush	
9	SCA011011	4	Setscrew HT M8 x25	
10	SCA011093	4	Spring washer M8	
11	SCA023123	1	Pin 16 dia x 46 long	
12	SCA011122	2	Split pin 3/16" x 1 1/2"	
13	SCA037915	1	King post, auxiliary brush, left hand	85
14	SCA014801	1	Brush link, side brush	87
15	SCA013011	1	Top link	88
16	SCA023121	1	Swivel plate side brush, pneumatic lift	89

Brush link, auxiliary brush, left hand

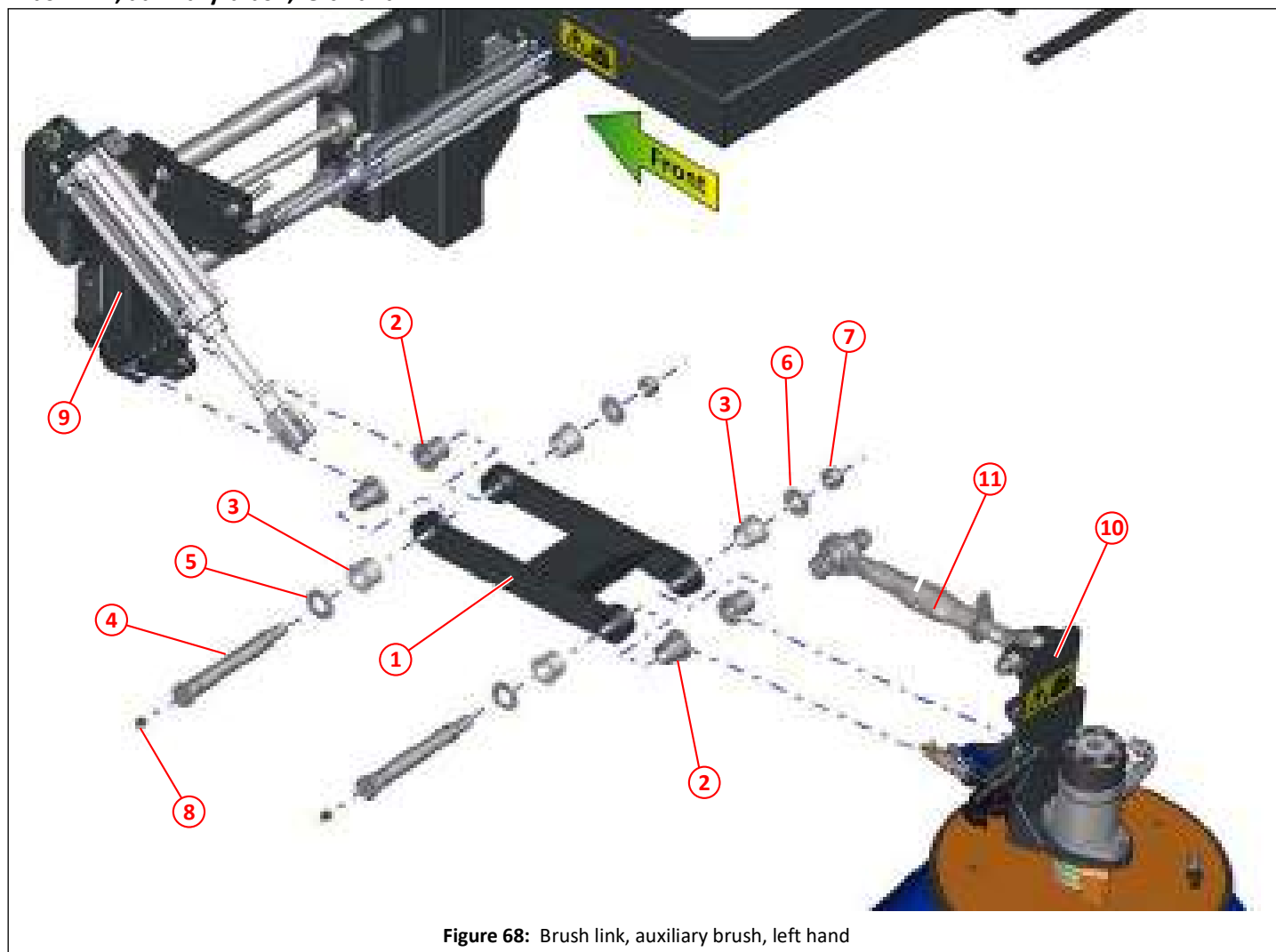


Figure 68: Brush link, auxiliary brush, left hand

Item	Part No	Qty	Description	
1	SCA014801	1	Brush link, side brush	
2	SCA014799	4	Spacer sleeve, side brush	
3	SCA013012	4	Bush	
4	SCA014796	2	Pivot bolt, side brush	
5	SCA014798	2	Washer 24 x 40 x 3	
6	SCA014797	2	Washer 17 x 40 x 3	
7	SCA011060	2	Nyloc nut M16	
8	SCA010903	2	Grease nipple 1/8" BSP, straight	
9	SCA037915	1	King post, auxiliary brush, left hand	85
10	SCA023121	1	Swivel plate side brush, pneumatic lift	89
11	SCA013011	1	Top link	88

Top link, auxiliary brush, left hand

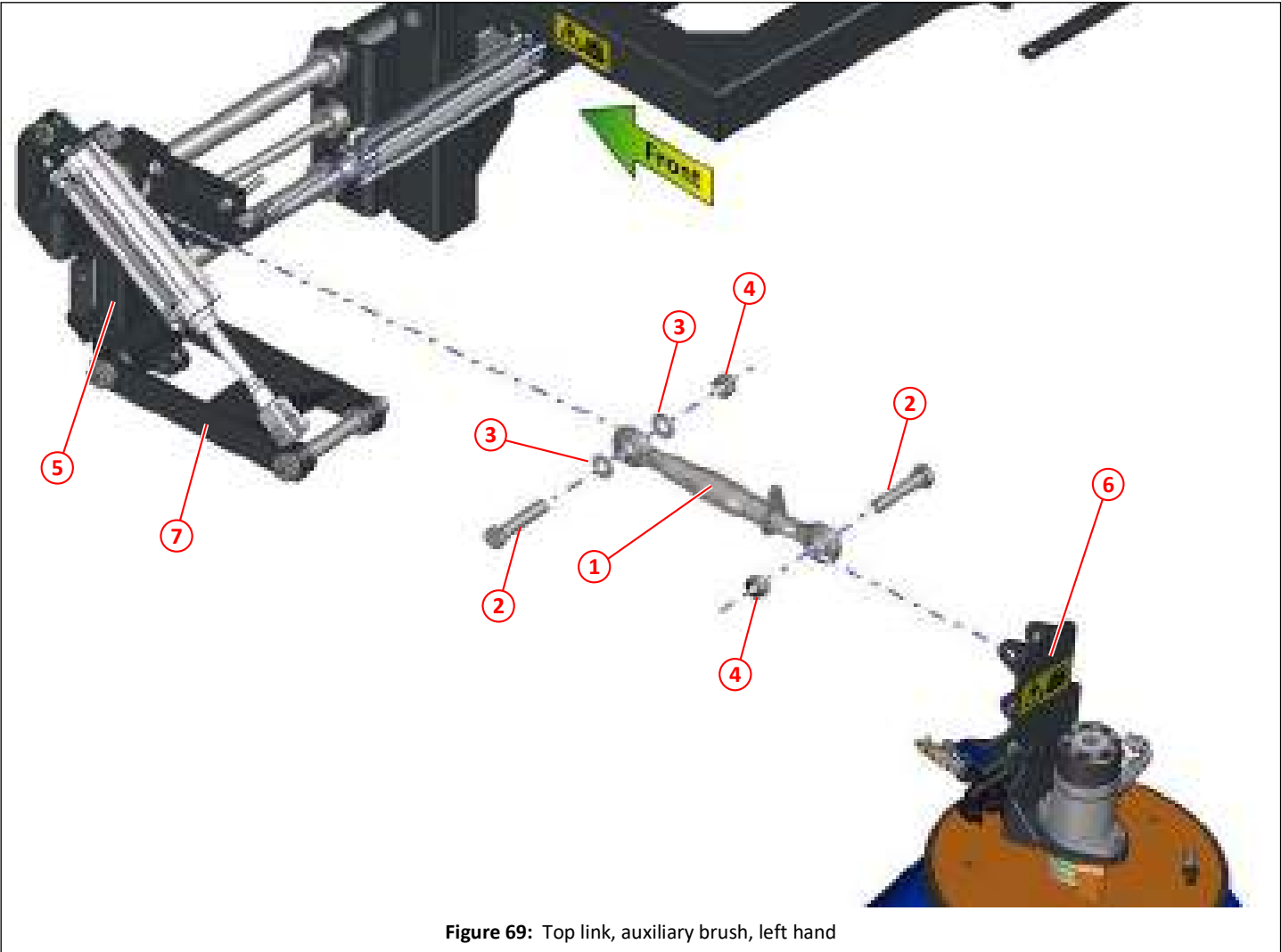


Figure 69: Top link, auxiliary brush, left hand

Item	Part No	Qty	Description	
1	SCA013011	1	Top link	
2	SCA011140	2	Bolt HT M18 X 90	
3	SCA011138	2	Washer M18	
4	SCA011139	2	Nyloc nut M18	
5	SCA037915	1	King post, auxiliary brush, left hand	85
6	SCA023121	1	Swivel plate side brush, pneumatic lift	89
7	SCA014801	1	Brush link, side brush	87

Swivel plate, auxiliary brush, left hand

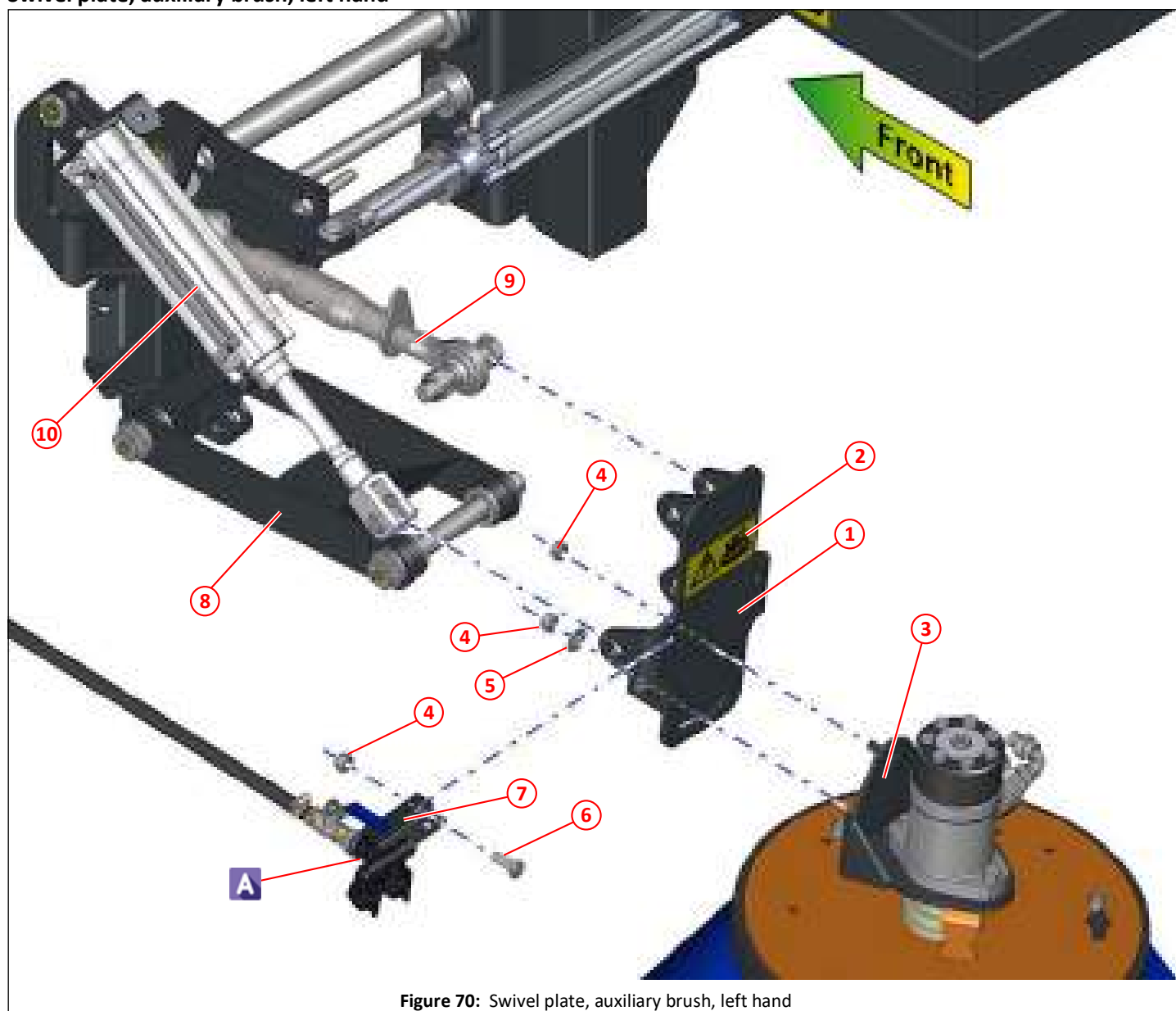


Figure 70: Swivel plate, auxiliary brush, left hand

Item	Part No	Qty	Description	
1	SCA023121	1	Swivel plate, side brush, pneumatic lift	
2	SCA022383	1	Label - Brush warning	
3	SCA047485	1	Motor bracket, side brush (bolt hub)	90
4	SCA011075	3	Nyloc nut M10	
5	SCA011094	1	Washer M10	
6	SCA011031	1	Setscrew HT M10 x 25	
7	SCA036042	1	Bracket, water spray RH, twin nozzle (for left hand side)	
8	SCA014801	1	Brush link, side brush	87
9	SCA013011	1	Top link	88
10	SCA020298	1	Pneumatic cylinder 50 x160	86
A			Water spray LH, auxiliary side brush	92

Motor, auxiliary brush, left hand

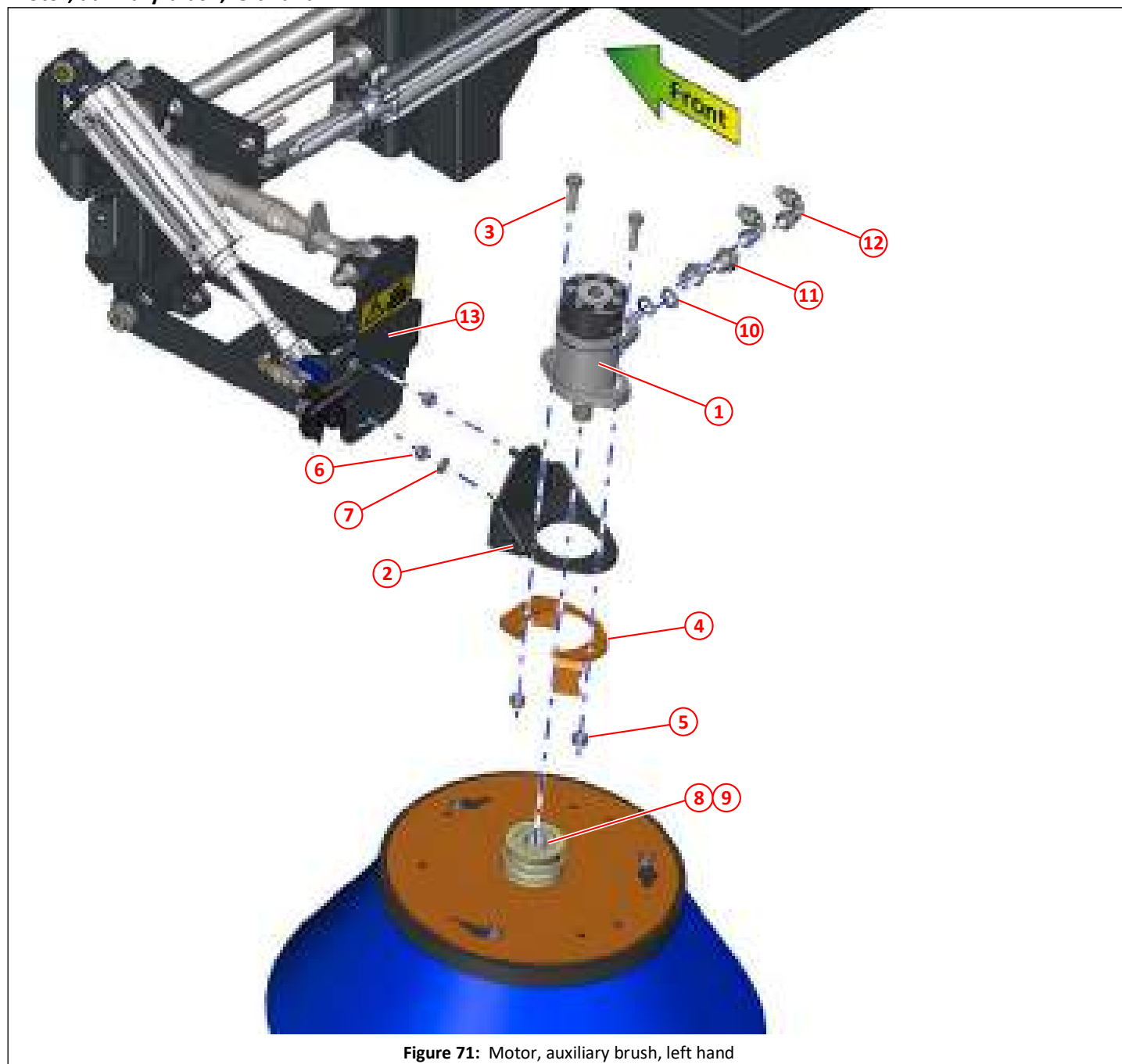


Figure 71: Motor, auxiliary brush, left hand

Item	Part No	Qty	Description	
1	SCA010749	1	Motor 3597 (OMP200)	
2	SCA047485	1	Motor bracket, side brush (bolt hub)	
3	SCA011054	2	Setscrew HT M12 x 45	
4	SCA049582	1	Tape cutter RH (for left hand auxiliary brush)	
5	SCA011077	2	Nyloc nut M12	
6	SCA011075	3	Nyloc nut M10	
7	SCA011094	1	Washer M10	
8	SCA047481	1	Sprung hub	
9	SCA047482	1	Plate hub	
10	SCA011154	2	Dowty seal 1/2" BSP	
11	SCA011167	2	Adapter 1/2" x 3/8" BSP	
12	SCA011221	2	Swept elbow 3/8" BSP	
13	SCA023121	1	Swivel plate, side brush, pneumatic lift	89

Brush and brush hub, auxiliary brush, left hand

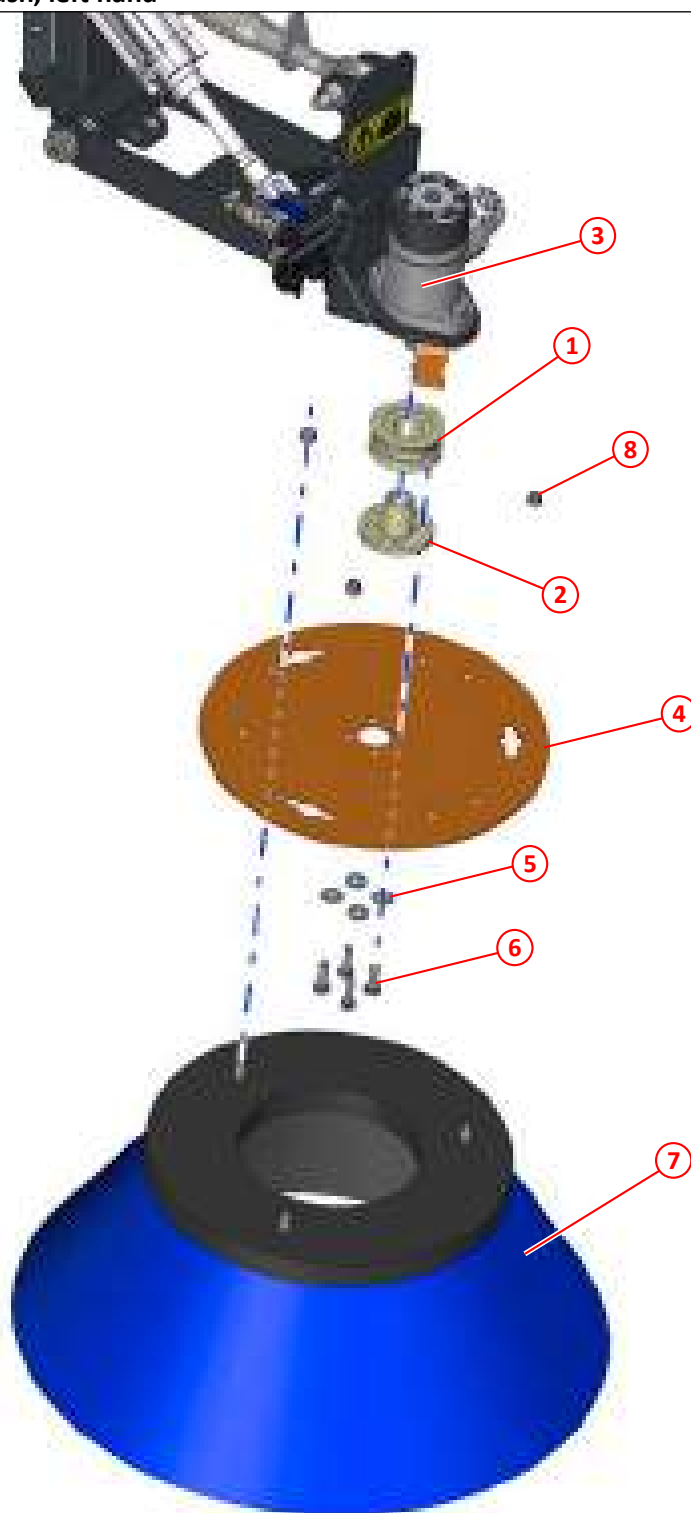


Figure 72: Brush and brush hub, auxiliary brush, left hand

Item	Part No	Qty	Description	
1	SCA047482	1	Plate hub	
2	SCA047481	1	Sprung hub	
3	SCA010749	1	Motor 3597 (OMP200)	90
4	SCA047484	1	Brush hub 7000 (bolt hub)	
5	SCA000270	4	Washer M10, stainless steel	
6	SCA000462	4	Setscrew HT M10 x 35, stainless steel	
7	SCA023473	1	Brush 400-650 dia, steel	
8	SCA011075	3	Nyloc nut M10	

Double water nozzle, auxiliary brush, left hand

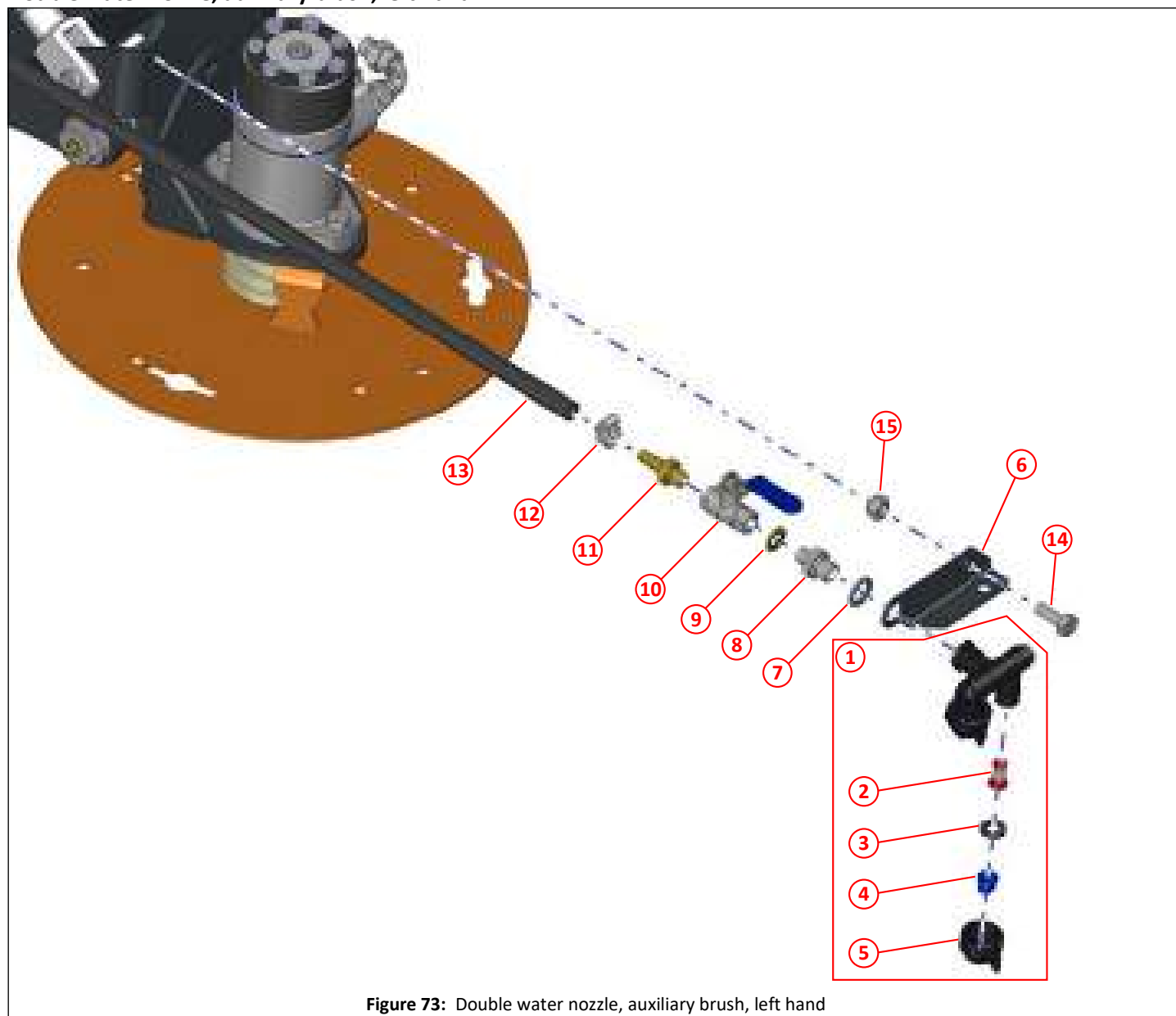


Figure 73: Double water nozzle, auxiliary brush, left hand

Item	Part No	Qty	Description	
1	SCA036044	1	Double swivel nozzle holder assembly	
2	SCA030633	2	Filter, 100 mesh	
3	SCA030636	2	Rubber washer	
4	SCA030748	2	Jet, blue	
5	SCA030746	2	Cone nozzle cap	
6	SCA036042	1	Nozzle bracket	
7	SCA011153	1	Dowty seal 3/8" BSP	
8	SCA011199	1	Adapter 3/8" x 1/4" BSP	
9	SCA011152	1	Dowty seal SEAL 1/4" BSP	
10	SCA011743	1	Valve, ball, 1/4" BSP	
11	SCA010922	1	Adapter 1/4" BSP x 3/8" hosetail	
12	SCA010516	1	Jubilee clip No MOO [11mm - 16mm]	
13	SCA010950	1	Hose 3/8" black braided PVC	
14	SCA011031	1	Setscrew HT M10 x 25	
15	SCA011075	1	Nyloc nut M10	

Support bracket and work light, auxiliary brush, left hand

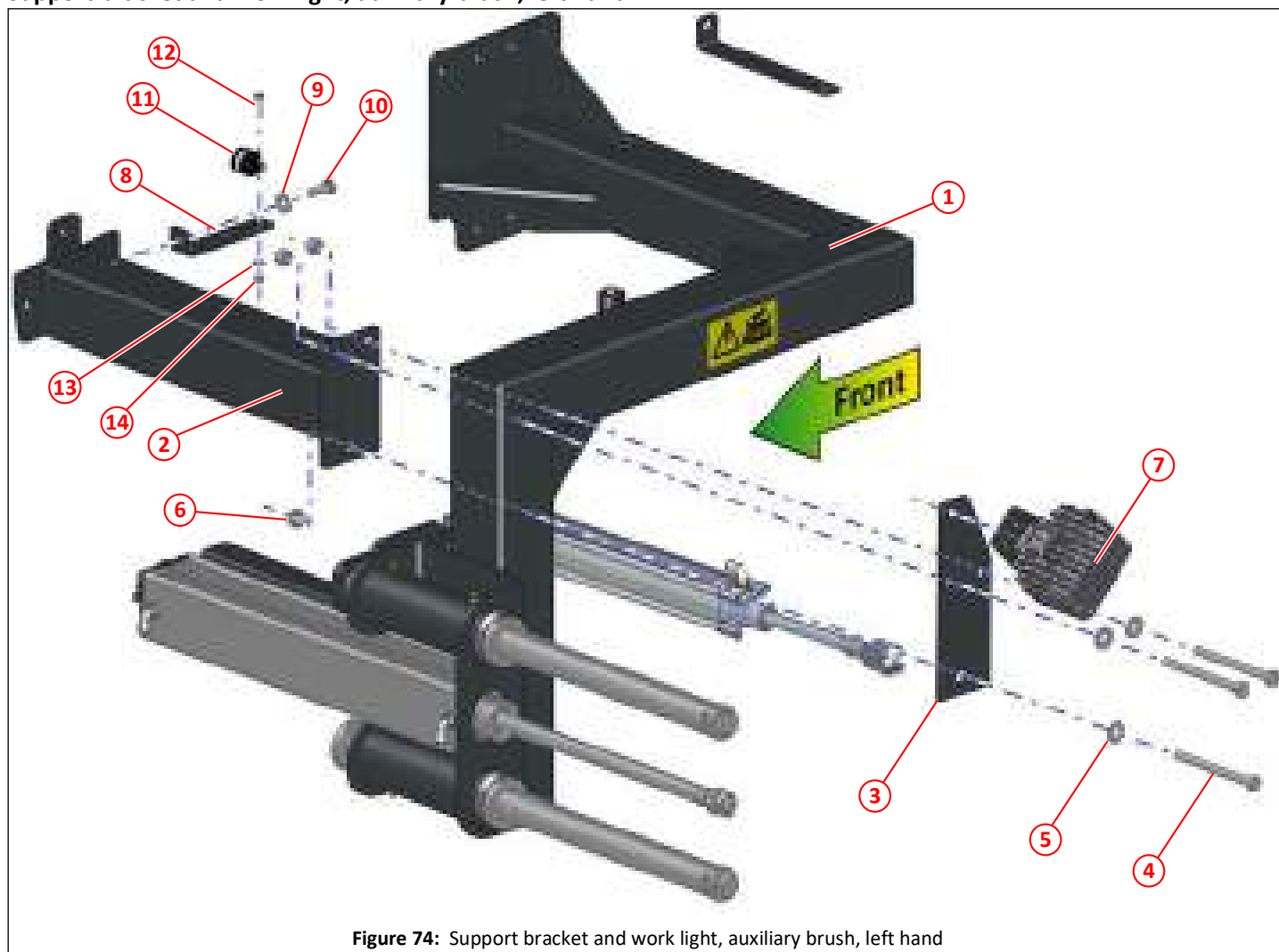


Figure 74: Support bracket and work light, auxiliary brush, left hand

Item	Part No	Qty	Description	
1	SCA042197	1	Brush carrier, auxiliary brush, left hand - DAF LF55 E6 3550 WB	100
2	SCA042198	1	Support bracket, auxiliary brush, left hand - DAF LF55 E6 3550 WB	100
3	SCA045705	1	Work lamp mounting bracket, auxiliary brush - DAF 55	100
4	SCA011042	3	Bolt HT M10 x 110	
5	SCA011094	3	Washer M10	
6	SCA011075	3	Nyloc nut M10	
7	SCA047757	1	HELLA 18W work lamp 10-32V	
8	SCA031921	1	Bracket	
9	SCA011092	1	Washer M8	
10	SCA011011	1	Setscrew HT M8 x25	
11	SCA005059	1	Clip ID 25mm	
12	SCA011067	1	Setscrew HT M6xX 20	
13	SCA011090	1	Washer M6	
14	SCA011071	1	Nyloc nut M6	

Pneumatic cylinder, swing in/out, auxiliary brush, left hand

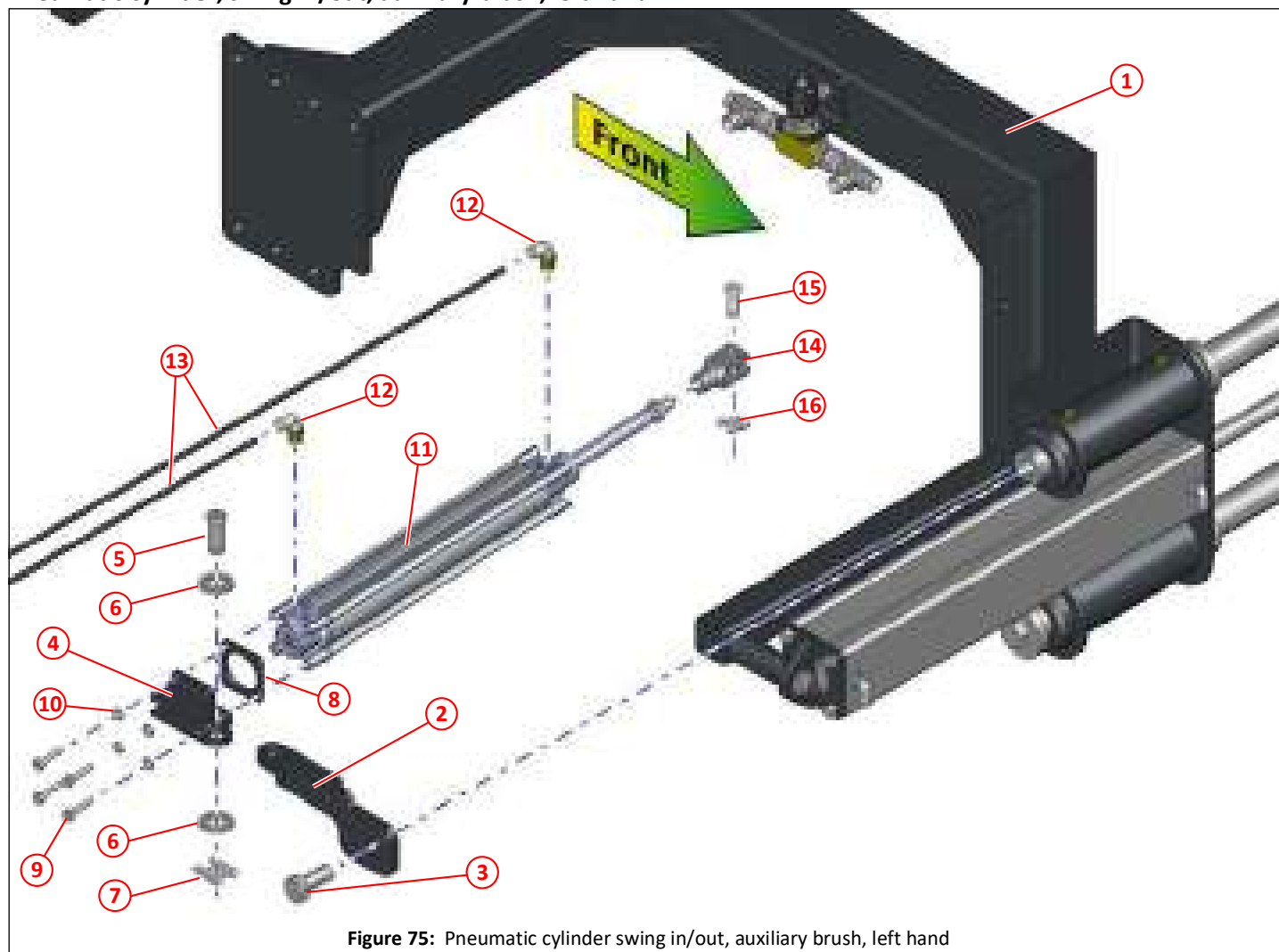


Figure 75: Pneumatic cylinder swing in/out, auxiliary brush, left hand

Item	Part No	Qty	Description	
1	SCA042197	1	Brush carrier, auxiliary brush, left hand - DAF LF55 E6 3550 WB	100
2	SCA042207	1	Push link, auxiliary brush, left hand - DAF LF55 E6 3550 WB	100
3	SCA011141	1	Bolt M16 x 35	
4	SCA049575	1	Pivot, 40 bore pneumatic cylinder	
5	SCA022673	1	Clevis pin, turned	
6	SCA011135	2	Washer M16	
7	SCA022674	1	Clip, retaining M16	
8	SCA045502	1	Spacer, pneumatic cylinder	
9	SCA000020	4	Setscrew HT M6 x 30	
10	SCA011091	4	Spring washer M6	
11	SCA049695	1	Pneumatic cylinder 40 x 250	
12	SCA024646	2	6mm elbow x 1/4" BSP, grey	
13	SCA014572	2	6mm OD x 1mm WT black air pipe	
14	SCA014469	1	Clevis, air cylinder M12	
15	SCA023270	1	Clevis pin 12	
16	SCA023269	1	Safety fastener 12	

King post support, auxiliary brush, left hand

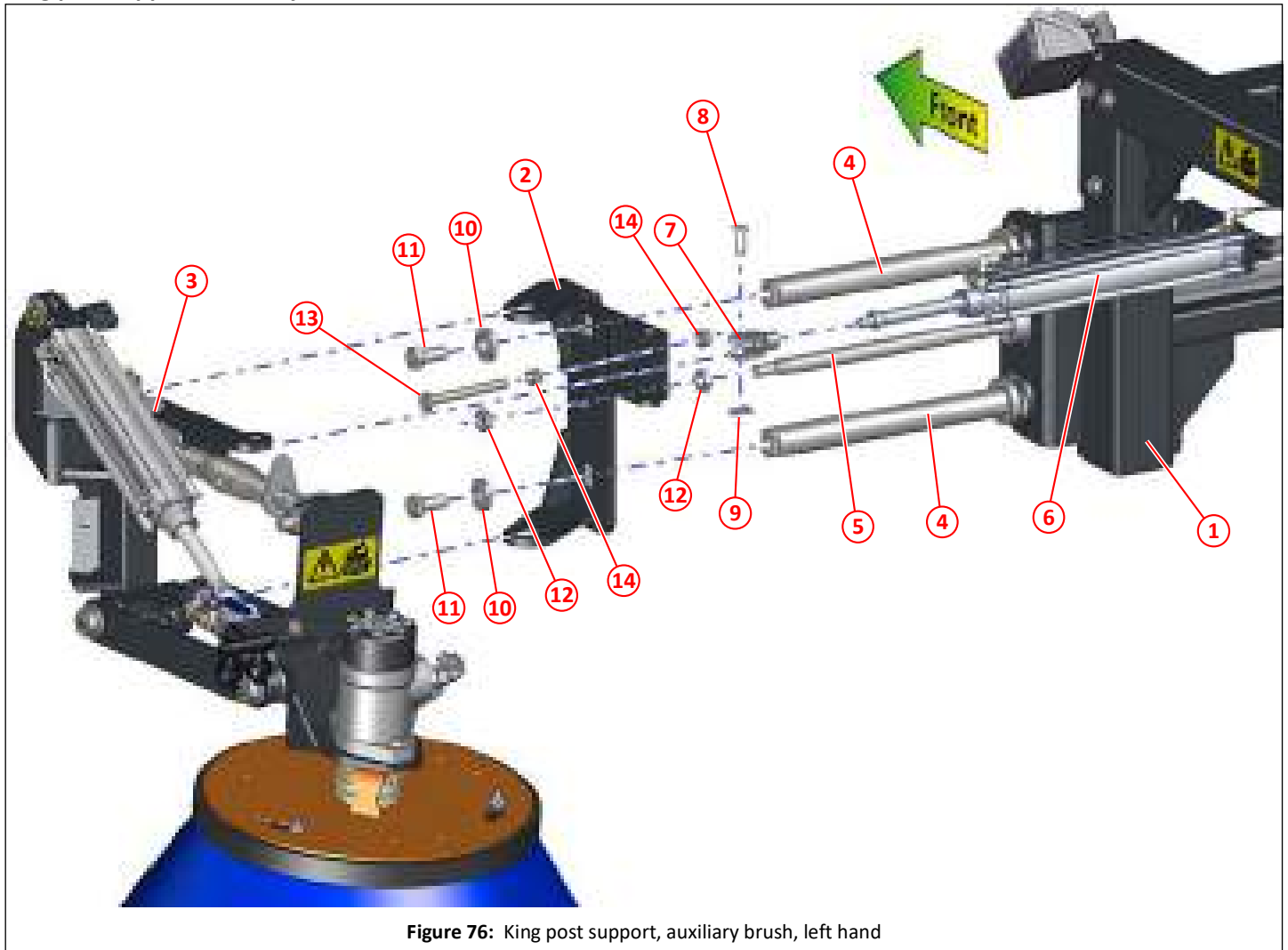


Figure 76: King post support, auxiliary brush, left hand

Item	Part No	Qty	Description	
1	SCA042197	1	Brush carrier, auxiliary brush, left hand - DAF LF55 E6 3550 WB	100
2	SCA037916	1	King post support, auxiliary brush, left hand	100
3	SCA037915	1	King post, auxiliary brush, left hand	85
4	SCA030856	2	Thrust bar, auxiliary brush	
5	SCA026396	1	Pneumatic cylinder 63 x 320	
6	SCA049695	1	Pneumatic cylinder 40 x 250	
7	SCA014469	1	Clevis, air cylinder M12	
8	SCA023270	1	Clevis pin 12	
9	SCA023269	1	Safety fastener 12	
10	SCA030862	2	Small washer, auxiliary brush	
11	SCA011141	2	Bolt M16 x 35	
12	SCA000138	2	Nut M16 x 1.5, lock nut	
13	SCA011064	1	Bolt HT M12 x 110	
14	SCA011076	2	Full Nut M12	

Pneumatic cylinder, extend/retract, auxiliary brush, left hand

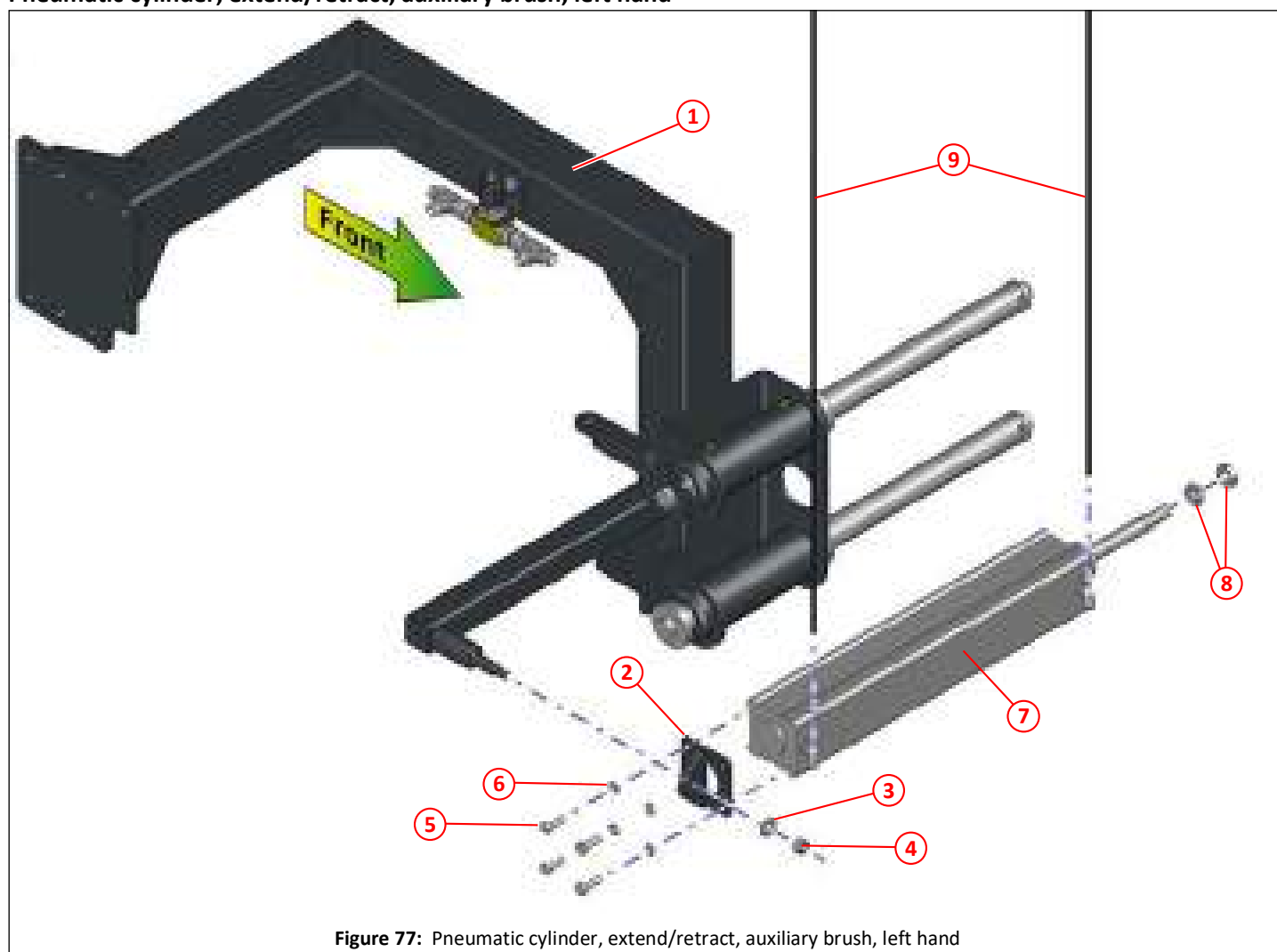


Figure 77: Pneumatic cylinder, extend/retract, auxiliary brush, left hand

Item	Part No	Qty	Description	
1	SCA042197	1	Brush carrier, auxiliary brush, left hand - DAF LF55 E6 3550 WB	100
2	SCA030859	1	Pivot, pneumatic cylinder, large	
3	SCA011094	1	Washer M10	
4	SCA011075	1	Nyloc nut M10	
5	SCA011011	4	Setscrew HT M8 x 25	
6	SCA011093	4	Spring washer M8	
7	SCA026396	1	Pneumatic cylinder 63 x 320	
8	SCA000138	2	Nut M16 x 1.5, lock nut	
9	SCA014572	2	6mm OD x 1mm WT black air pipe	

Thrust bars, extend/retract, auxiliary brush, left hand

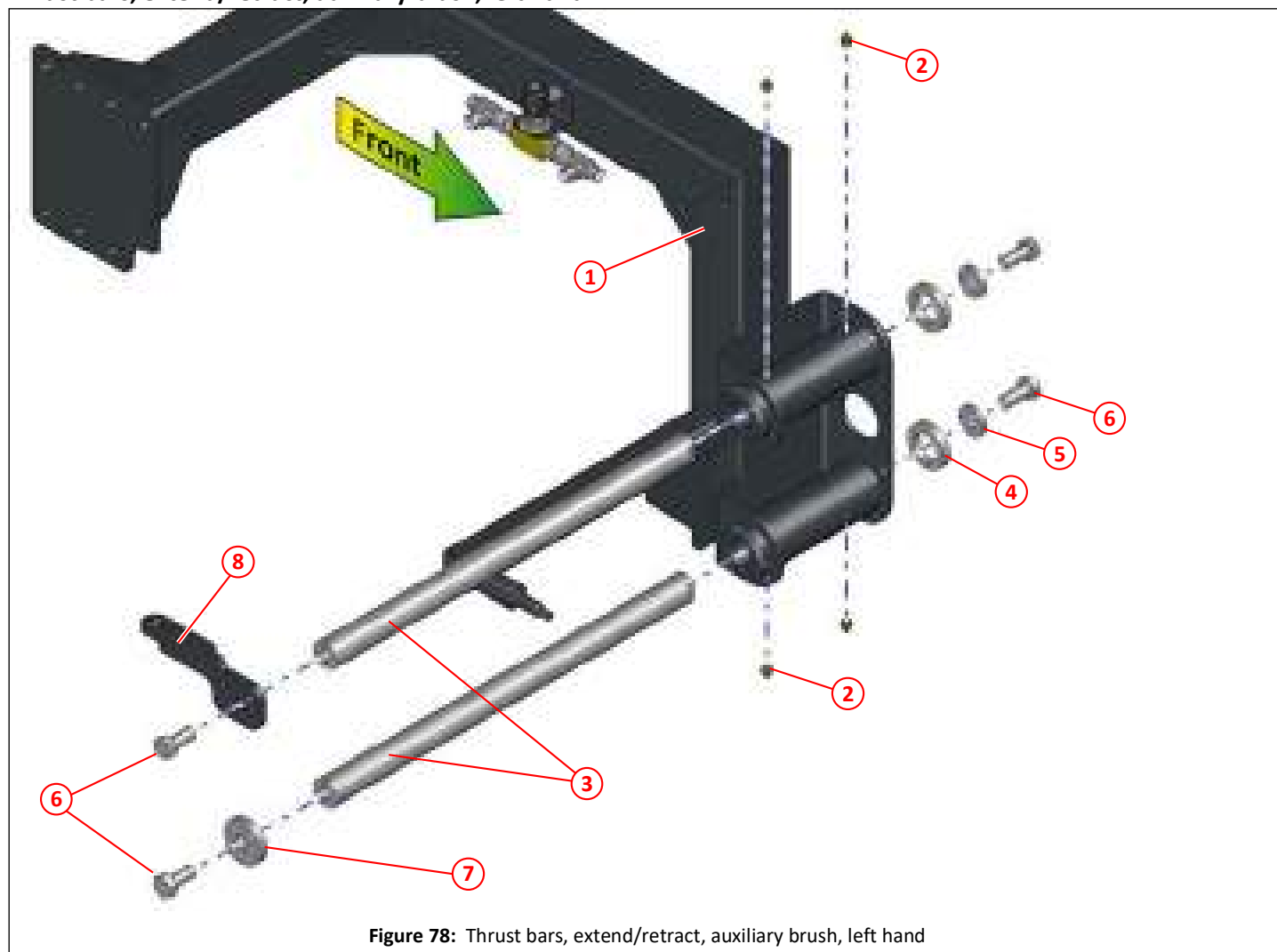


Figure 78: Thrust bars, extend/retract, auxiliary brush, left hand

Item	Part No	Qty	Description	
1	SCA042197	1	Brush carrier, auxiliary brush, left hand - DAF LF55 E6 3550 WB	100
2	SCA010903	4	Grease nipple 1/8" BSP, straight	
3	SCA030856	2	Thrust bar, auxiliary brush	
4	SCA039838	2	Spacer, thrust bar, auxiliary brush	
5	SCA030862	2	Small washer, auxiliary brush	
6	SCA011141	4	Bolt M16 x 35	
7	SC A030861	1	Large washer, auxiliary brush	
8	SCA042207	1	Push link, auxiliary brush, left hand - DAF LF55 E6 3550 WB	100

Brush speed control valve, auxiliary brush, left hand

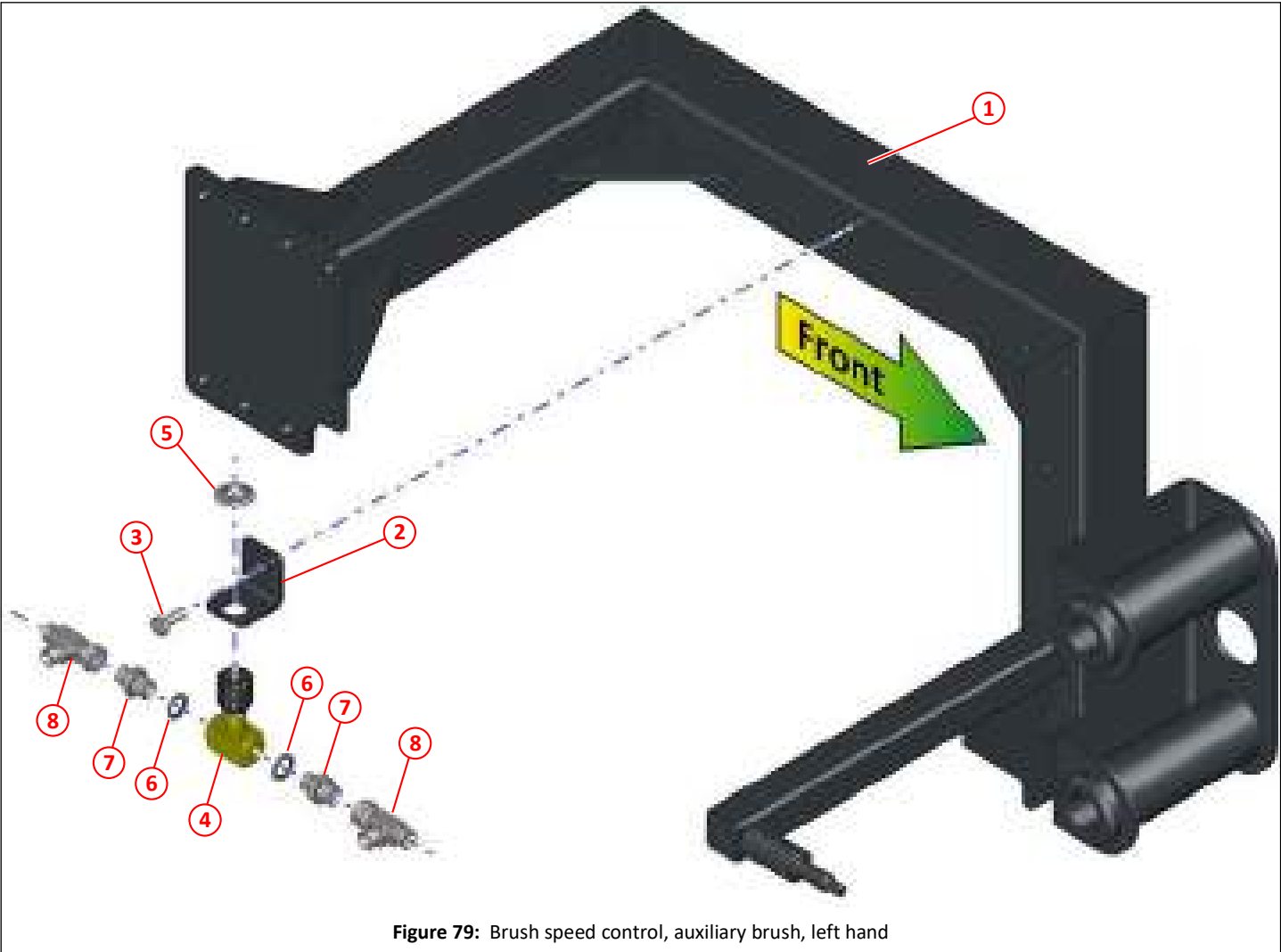


Figure 79: Brush speed control, auxiliary brush, left hand

Item	Part No	Qty	Description	
1	SCA042197	1	Brush carrier, auxiliary brush, left hand - DAF LF55 E6 3550 WB	100
2	SCA025007	1	Angle bracket	
3	SCA011031	1	Setscrew HT M10 x 25	
4	SCA022341	1	Valve shut off, 3/8" BSP	
5	SCA038976	1	Panel mounting kit, valve shut off	
6	SCA011153	2	Dowty seal 3/8" BSP	
7	SCA011159	2	Adapter 3/8" BSP	
8	SCA011223	2	Tee 3/8" BSP, nut on run	

Carrier and support mounting bolts, auxiliary brush, left hand

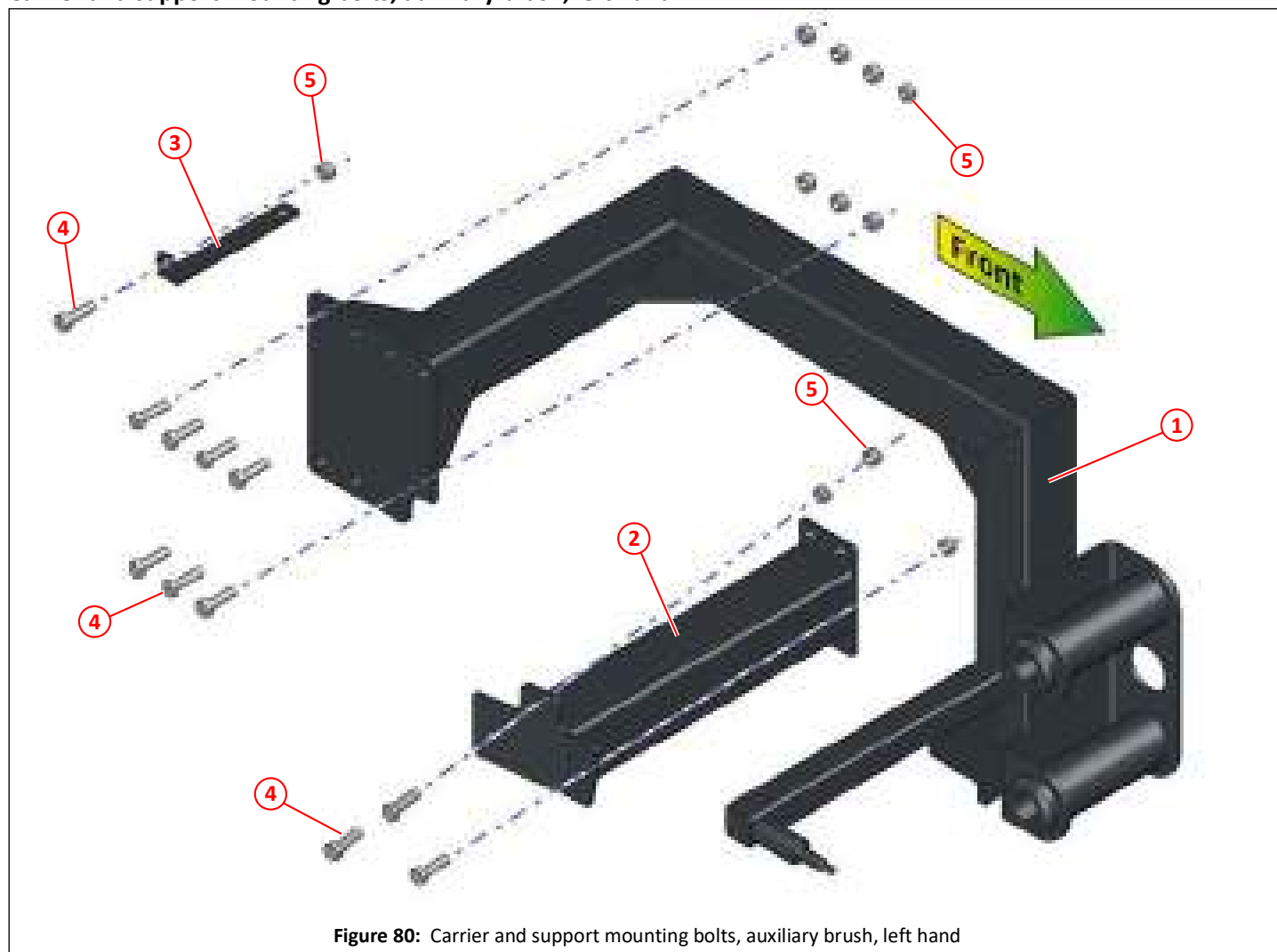


Figure 80: Carrier and support mounting bolts, auxiliary brush, left hand

Item	Part No	Qty	Description	
1	SCA042197	1	Brush carrier, auxiliary brush, left hand - DAF LF55 E6 3550 WB	100
2	SCA042198	1	Support bracket, auxiliary brush, left hand - DAF LF55 E6 3550 WB	100
3	SCA013192	1	Bracket	
4	SCA011069	11	Bolt M12 x 40	
5	SCA011077	11	Nyloc nut M12	

Carriers and support brackets for various chassis, auxiliary brush, left hand

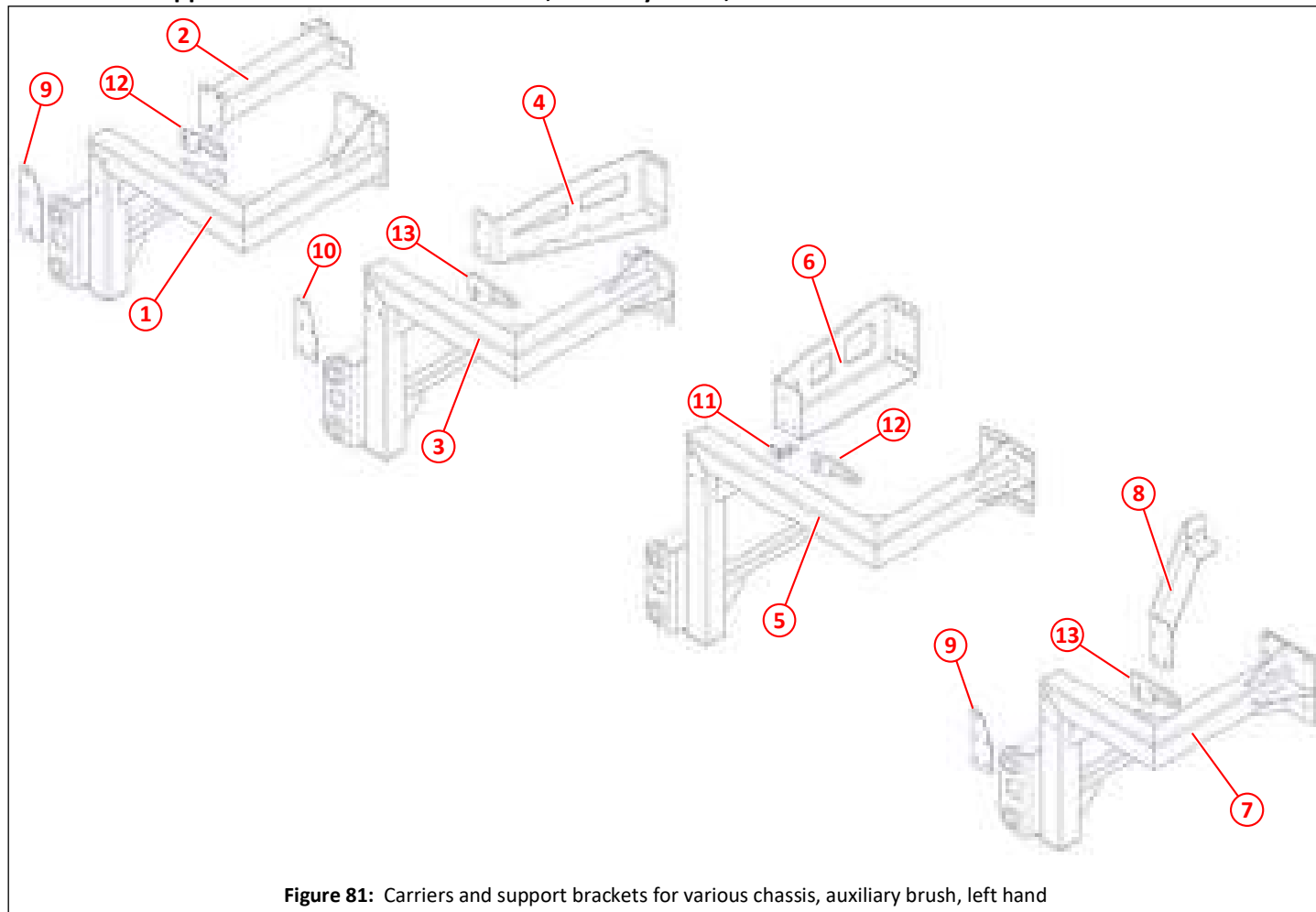


Figure 81: Carriers and support brackets for various chassis, auxiliary brush, left hand

Item	Part No	Qty	Description	
1	SCA042197	1	Brush carrier, auxiliary brush, left hand - DAF LF55 E6 3550 WB	
2	SCA042198	1	Support bracket, auxiliary brush, left hand - DAF LF55 E6 3550 WB	
3	SCA044814	1	Brush carrier, auxiliary brush, left hand - MAN TGM 18.250 E6 3875	
4	SCA044815	1	Support bracket, auxiliary brush, left hand - MAN TGM 18.250 E6 3875	
5	SCA044825	1	Brush carrier, auxiliary brush, left hand - MERC AROCS E6 4500	
6	SCA044826	1	Support bracket, auxiliary brush, left hand - MERC AROCS E6 4500	
7	SCA046727	1	Brush carrier, auxiliary brush, left hand - SCANIA G360 3600 E6	
8	SCA046717	1	Support bracket, auxiliary brush, left hand - SCANIA P360 3600 E6	
9	SCA045705	1	Work lamp mounting bracket, auxiliary brush	
10	SCA044545	1	Work lamp mounting bracket, auxiliary brush	
11	SCA026196	1	Anti vibration bracket	
12	SCA042207	1	Push link, auxiliary brush, LH	
13	SCA037919	1	Push link, auxiliary brush, LH	

i Note 1:- these are examples of carriers and support brackets for the auxiliary brush. If your chassis is not listed here then please contact your Scarab Dealer, with your sweepers Works Number and chassis information.

i Note 2:- Unless explicitly stated the majority of the other parts listed in the previous pages regarding the auxiliary brush are applicable across all machines and chassis. For clarification, please contact your Scarab Dealer to confirm parts for your sweeper, with your sweepers Works Number and chassis information.

Auxiliary brush, right hand, general arrangement

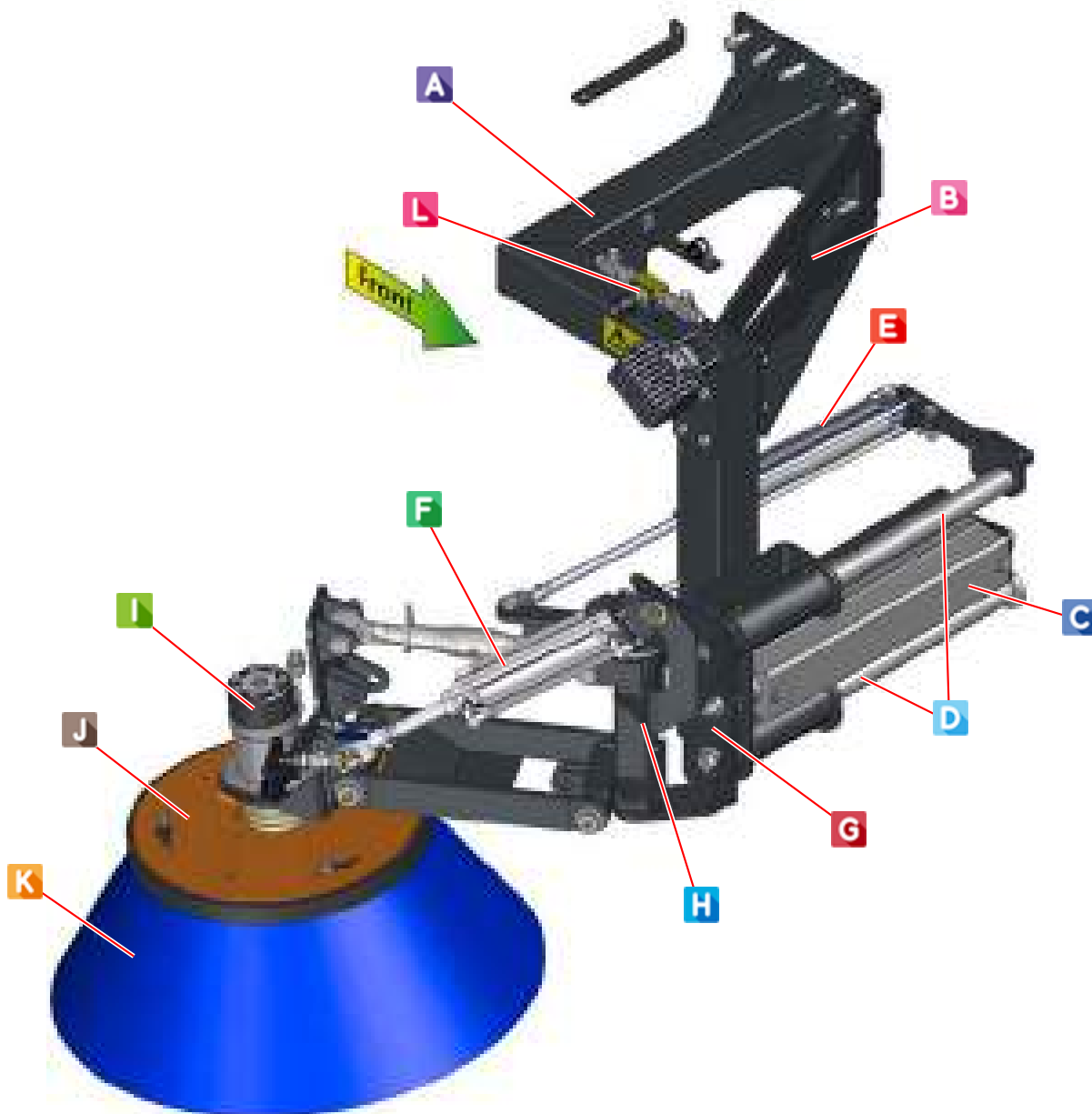


Figure 82: Auxiliary brush, right hand, general arrangement

Item	Description	
A	Brush carrier, auxiliary brush, right hand	117
B	Support bracket, auxiliary brush, right hand	110,117
C	Extend and retract pneumatic cylinder, auxiliary brush	113
D	Thrust bar, extend and retract, auxiliary brush	114
E	Swing in and out pneumatic cylinder, auxiliary brush	111
F	Raise and lower pneumatic cylinder, auxiliary brush	103
G	King post support, auxiliary brush, right hand	112
H	King post, auxiliary brush, right hand	102
I	Brush motor	107
J	Brush hub	108
K	Brush steel	108
L	Brush speed control valve	115

King post, auxiliary brush, right hand

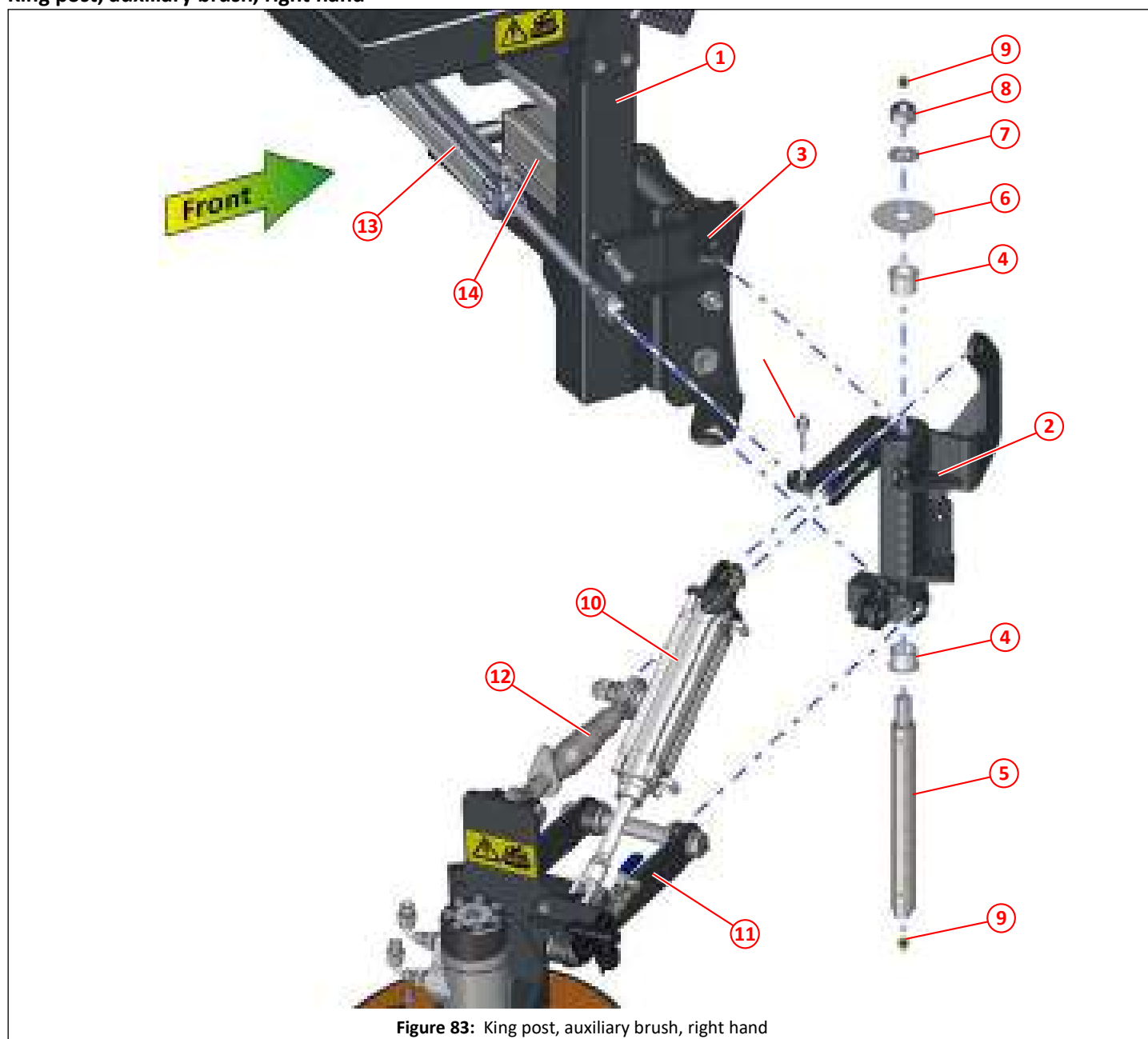


Figure 83: King post, auxiliary brush, right hand

Item	Part No	Qty	Description	
1	SCA046164	1	Brush carrier, auxiliary brush, RH - VOLVO FM 4600 E6 2500	
2	SCA030857	1	King post, auxiliary brush, RH	
3	SCA030858	1	King post support bracket, auxiliary brush, RH	
4	SCA013012	2	Bush, king post	
5	SCA013007	1	King pin	
6	SCA045915	1	Dirt shield, auxiliary brush	
7	SCA011102	1	Washer M20	
8	SCA011082	1	Nyloc nut M20	
9	SCA010903	2	Grease nipple 1/8" BSP, straight	
10	SCA020298	1	Pneumatic cylinder 50 x 160	103
11	SCA014801	1	Brush link, side brush	104
12	SCA013011	1	Top link	105
13	SCA049695	1	Pneumatic cylinder 40 x 250	103
14	SCA026396	1	Pneumatic cylinder 63 x 320	

Brush lift pneumatic cylinder, auxiliary brush, right hand

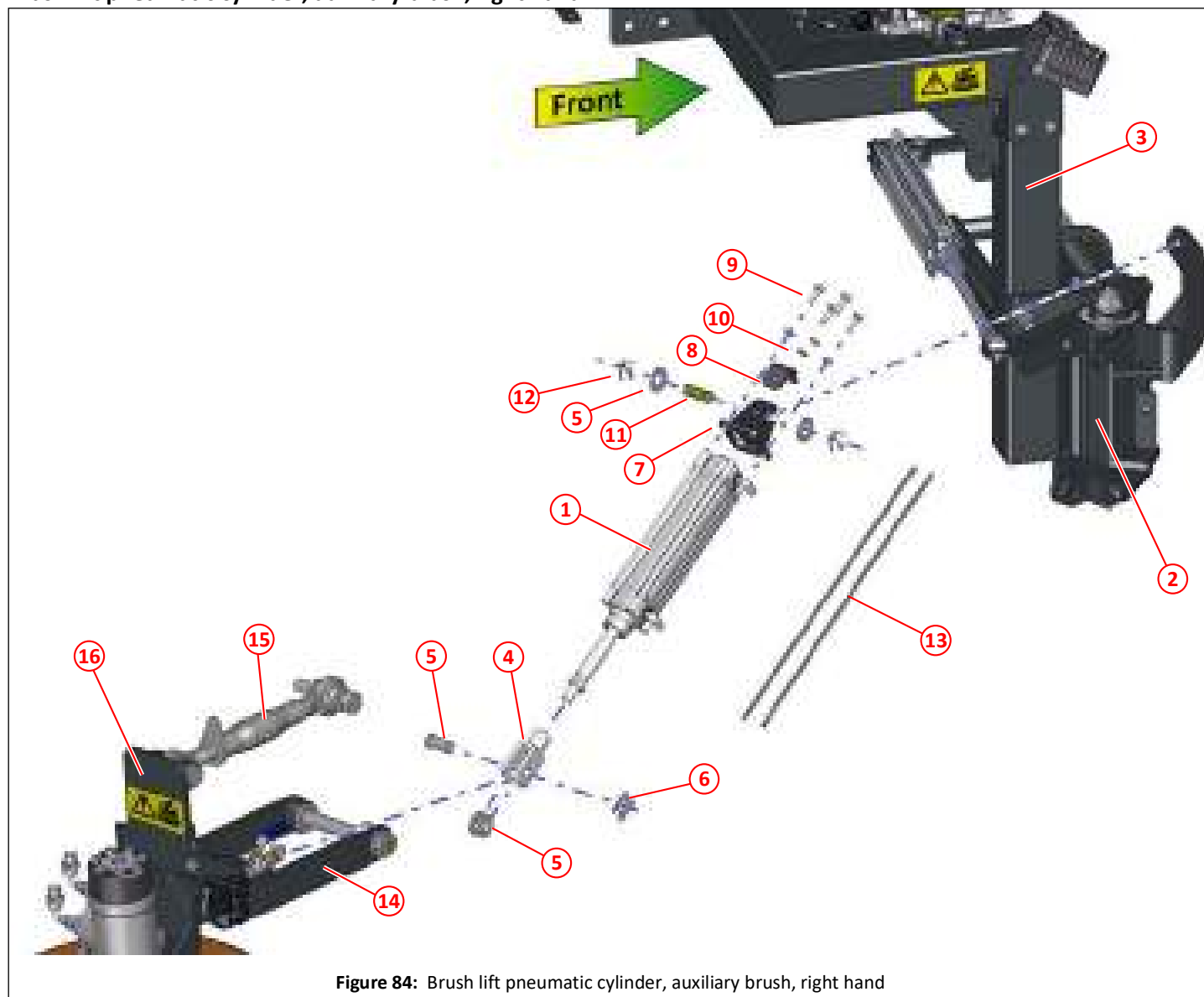


Figure 84: Brush lift pneumatic cylinder, auxiliary brush, right hand

Item	Part No	Qty	Description	
1	SCA020298	1	Pneumatic cylinder 50 x 160	103
2	SCA030857	1	King post, auxiliary brush, RH	102
3	SCA046164	1	Brush carrier, auxiliary brush, RH - VOLVO FM 4600 E6 2500	
4	SCA020299	1	Clevis pneumatic M16 x 1.5	
5	SCA022673	1	Clevis pin (turned)	
6	SCA011135	4	Washer M16	
7	SCA023122	1	Pivot, pneumatic cylinder (50 dia)	
8	SCA043191	1	Bracket, pipe retaining, auxiliary brush	
9	SCA011011	4	Setscrew HT M8 x 25	
10	SCA011093	4	Spring washer M8	
11	SCA023123	1	Pin, dia16 x 46 LG	
12	SCA011122	2	Split pin 3/16" x 1 1/2"	
13	SCA014572	2	6mm OD x 1mm WT, black air pipe	
14	SCA014801	1	Brush link, side brush	104
15	SCA013011	1	Top link	105
16	SCA023121	1	Swivel plate, side brush, pneumatic lift	106

Brush link, auxiliary brush, right hand

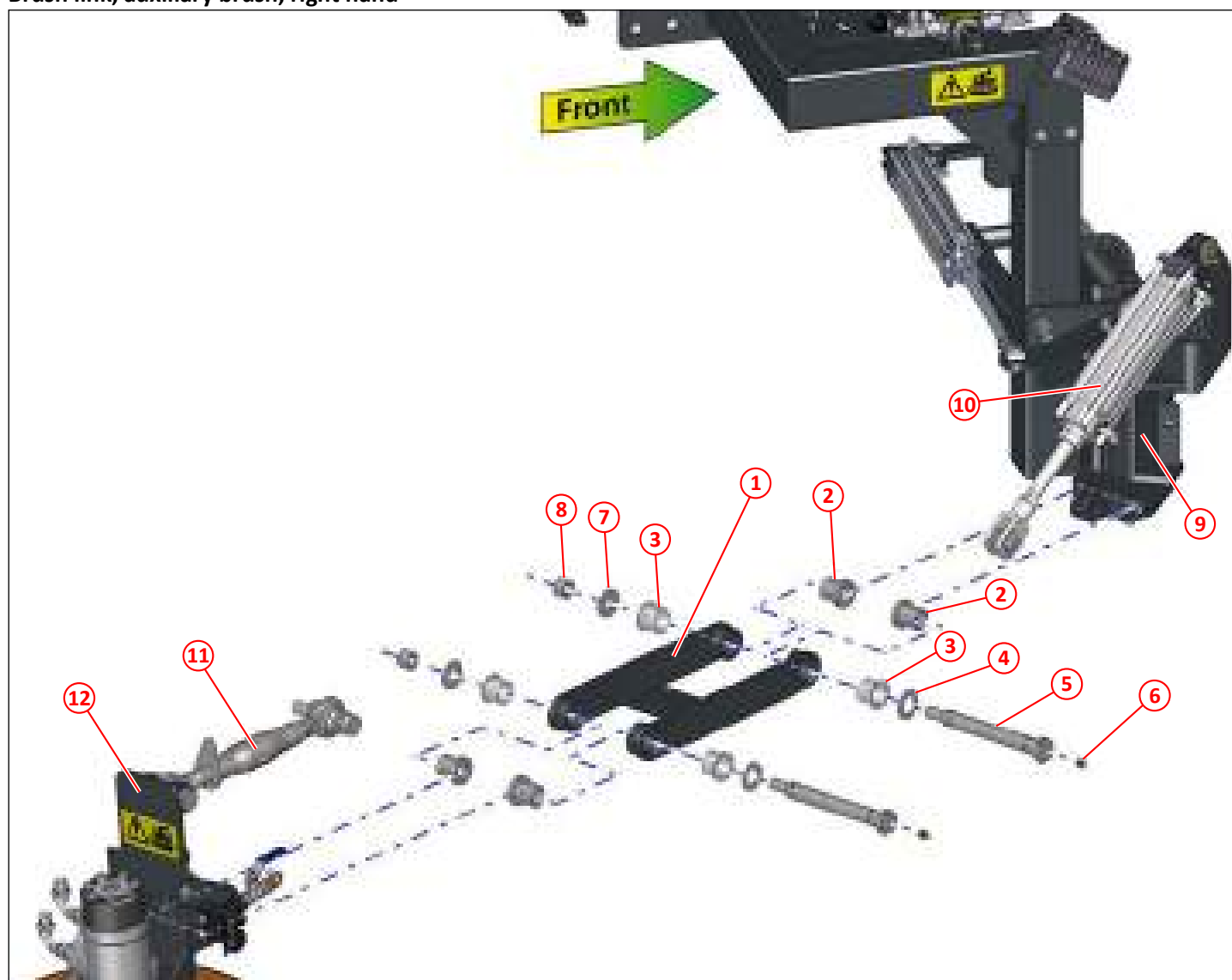


Figure 85: Brush link, auxiliary brush, right hand

Item	Part No	Qty	Description	
1	SCA014801	1	Brush link, side brush	
2	SCA014799	4	Spacer sleeve, side brush	
3	SCA013012	4	Bush	
4	SCA014798	2	Washer 24 x 40 x 3	
5	SCA014796	2	Pivot bolt, side brush	
6	SCA010903	2	Grease nipple 1/8" BSP, straight	
7	SCA014797	2	Washer 17 x 40 x 3	
8	SCA011060	2	Nyloc nut M16	
9	SCA030857	1	King post, auxiliary brush, RH	102
10	SCA020298	1	Pneumatic cylinder 50 x 160	103
11	SCA013011	1	Top link	105
12	SCA023121	1	Swivel plate, side brush, pneumatic lift	106

Top link, auxiliary brush, right hand

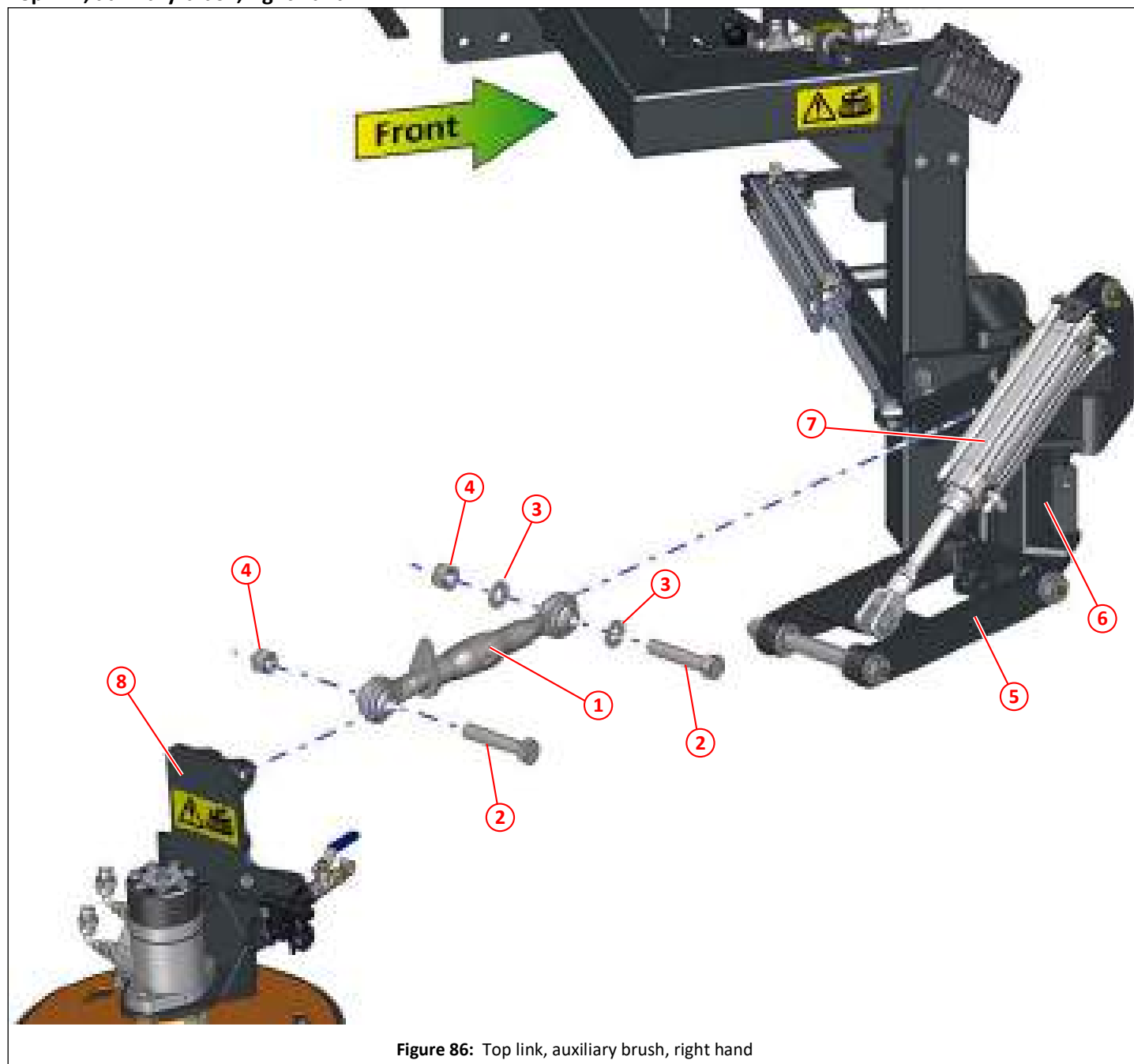


Figure 86: Top link, auxiliary brush, right hand

Item	Part No	Qty	Description	
1	SCA013011	1	Top link	
2	SCA011140	2	Bolt HT M18 x 90	
3	SCA011138	2	Washer M18	
4	SCA011139	2	Nyloc nut M18	
5	SCA014801	1	Brush link, side brush	104
6	SCA030857	1	King post, auxiliary brush, RH	102
7	SCA020298	1	Pneumatic cylinder 50 x 160	103
8	SCA023121	1	Swivel plate, side brush, pneumatic lift	106

Swivel plate, auxiliary brush, right hand

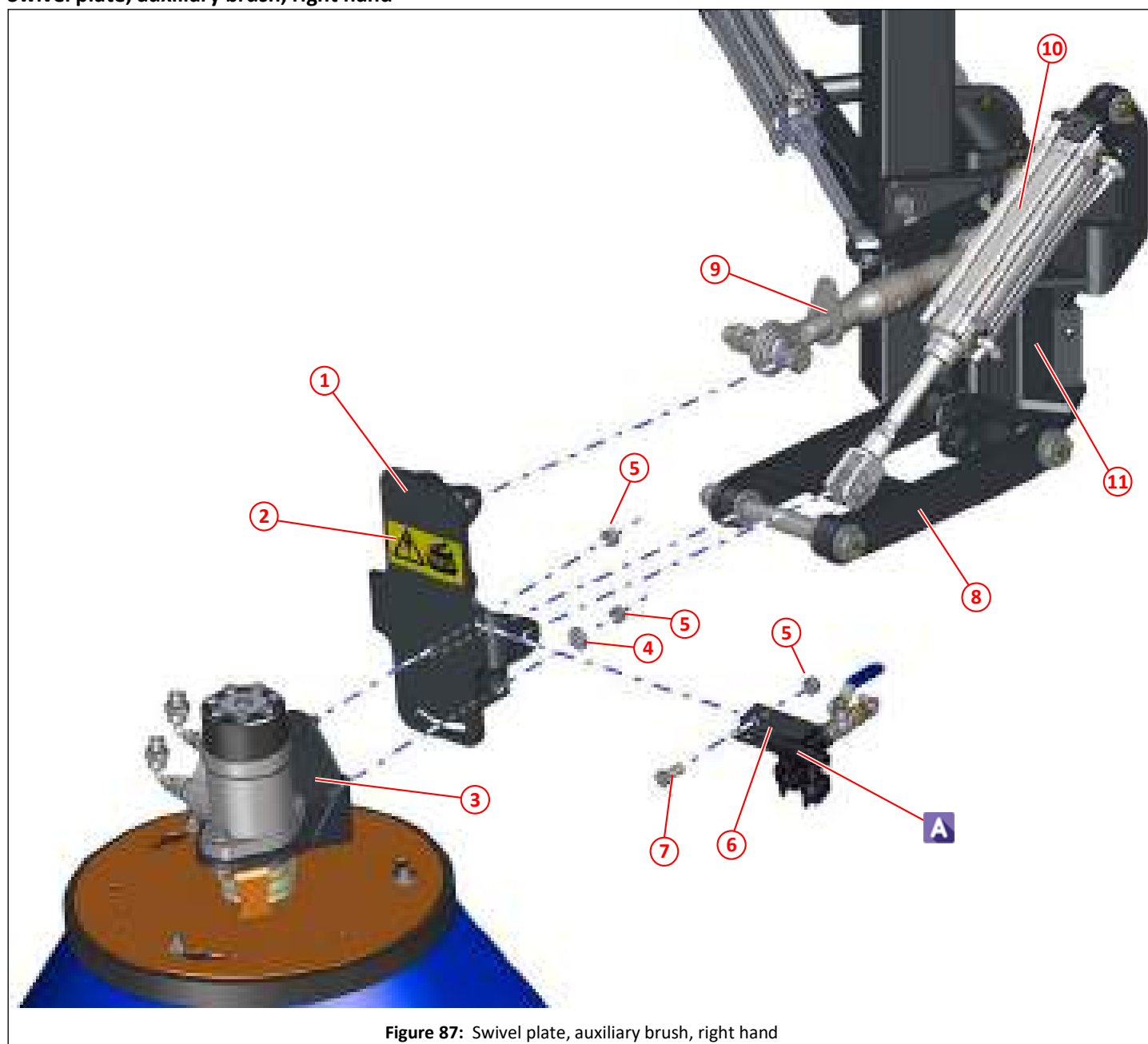


Figure 87: Swivel plate, auxiliary brush, right hand

Item	Part No	Qty	Description	
1	SCA023121	1	Swivel plate, side brush, pneumatic lift	
2	SCA022383	1	Label - Brush warning	
3	SCA047485	1	Motor bracket, side brush (bolt hub)	107
4	SCA011094	1	Washer M10	
5	SCA011075	3	Nyloc nut M10	
6	SCA036043	1	Nozzle bracket	
7	SCA011031	1	Setscrew HT M10 x 25	
8	SCA014801	1	Brush link, side brush	104
9	SCA013011	1	Top link	105
10	SCA020298	1	Pneumatic cylinder 50 x 160	103
11	SCA030857	1	King post, auxiliary brush, RH	102
A			Water spray RH, auxiliary side brush	

Motor, auxiliary brush, right hand

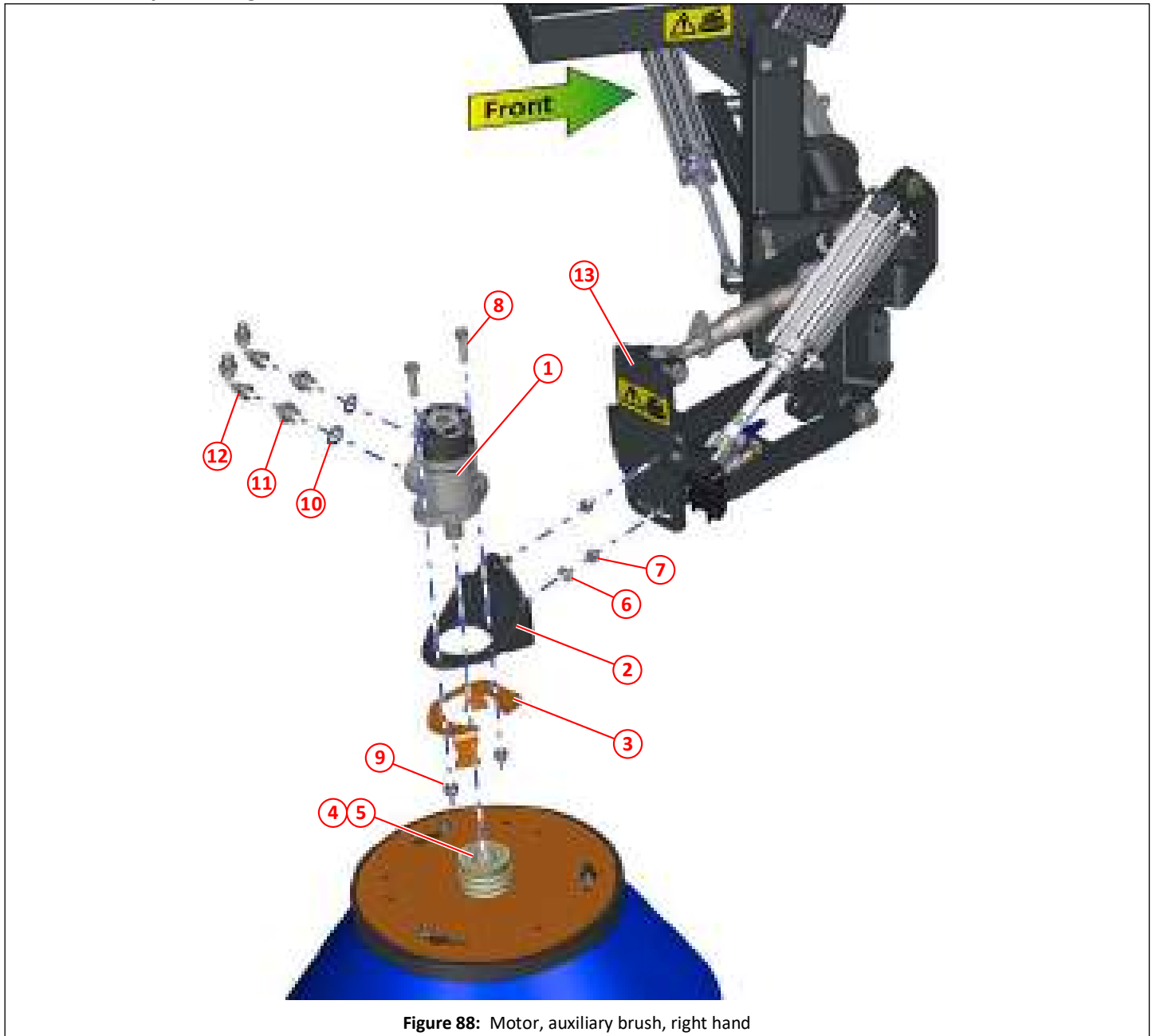


Figure 88: Motor, auxiliary brush, right hand

Item	Part No	Qty	Description	
1	SCA010749	1	Motor 3597 (OMP 200)	
2	SCA047485	1	Motor bracket, side brush (bolt hub)	
3	SCA048816	1	Tape cutter	
4	SCA047481	1	Sprung hub	
5	SCA047482	1	Plate hub	
6	SCA011094	1	Washer M10	
7	SCA011075	2	Nyloc nut M10	
8	SCA011054	2	Setscrew HT M12 x 45	
9	SCA011077	2	Nyloc nut M12	
10	SCA011154	2	Dowty seal 1/2" BSP	
11	SCA011167	2	Adapter 1/2" x 3/8" BSP	
12	SCA011221	2	Swept elbow 3/8" BSP	
13	SCA023121	1	Swivel plate, side brush, pneumatic lift	106

Brush and brush hub, auxiliary brush, right hand

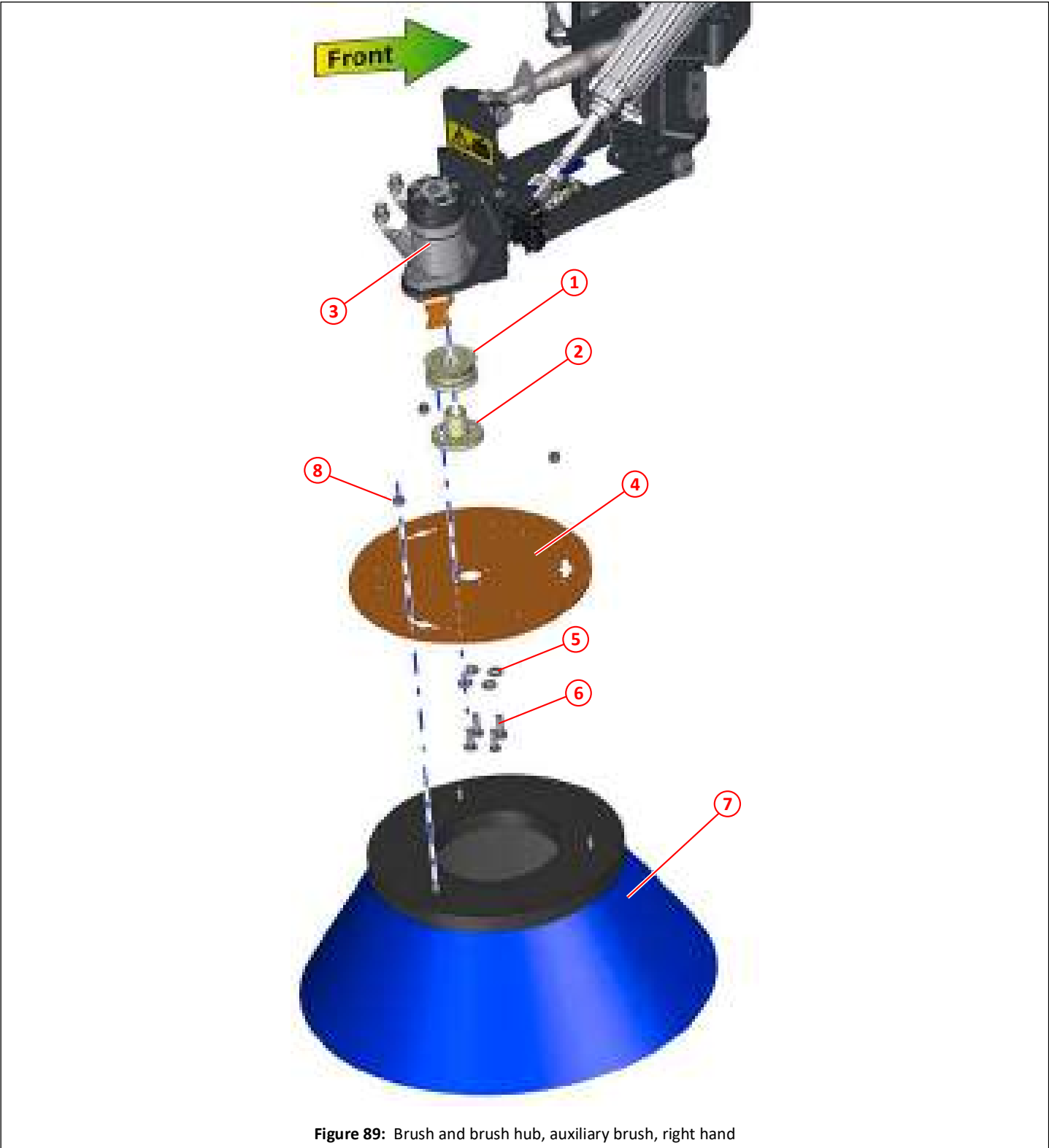


Figure 89: Brush and brush hub, auxiliary brush, right hand

Item	Part No	Qty	Description	
1	SCA047482	1	Plate hub	
2	SCA047481	1	Sprung hub	
3	SCA010749	1	Motor 3597 (OMP200)	
4	SCA047484	1	Brush hub 7000 (bolt hub)	
5	SCA000270	4	Washer M10, stainless steel	
6	SCA000462	4	Setscrew HT M10 x 35, stainless steel	
7	SCA023473	1	Brush 400-650 dia, steel	
8	SCA011075	3	Nyloc nut M10	

Double water nozzle, auxiliary brush, right hand

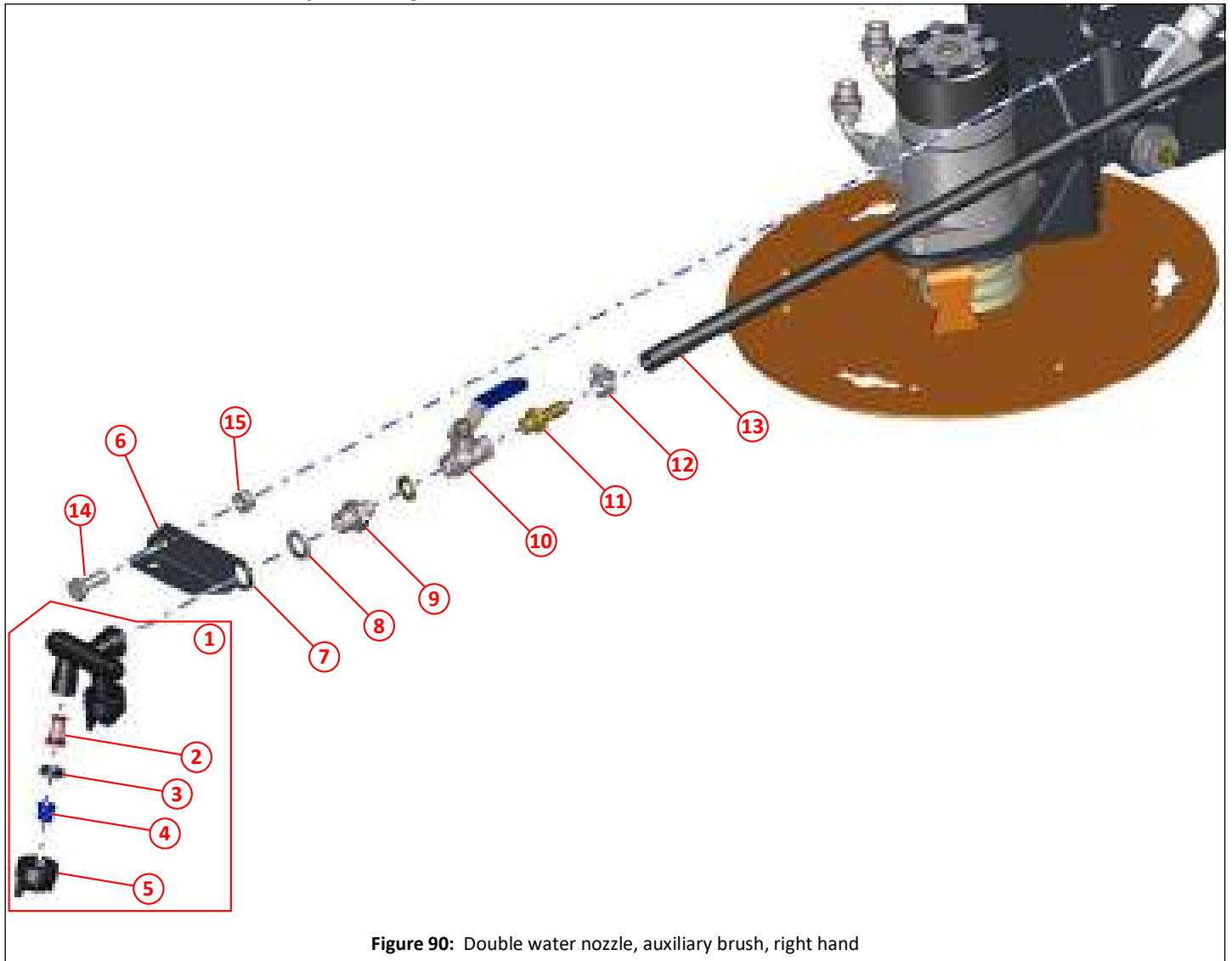


Figure 90: Double water nozzle, auxiliary brush, right hand

Item	Part No	Qty	Description	
1	SCA036044	1	Double swivel nozzle holder assembly	
2	SCA030633	2	Filter, 100 mesh	
3	SCA030636	2	Rubber washer	
4	SCA030748	2	Jet, blue	
5	SCA030746	2	Cone nozzle cap	
6	SCA036042	1	Nozzle bracket	
7	SCA011153	1	Dowty seal 3/8" BSP	
8	SCA011199	1	Adapter 3/8" x 1/4" BSP	
9	SCA011152	1	Dowty seal 1/4" BSP	
10	SCA011743	1	Valve, ball, 1/4" BSP	
11	SCA010922	1	Adapter 1/4" BSP x 3/8" hosetail	
12	SCA010516	1	Jubilee clip No MOO [11mm - 16mm]	
13	SCA010950	1	Hose 3/8" black braided PVC	
14	SCA011031	1	Setscrew HT M10 x 25	
15	SCA011075	1	Nyloc nut M10	

Support bracket and work light, auxiliary brush, right hand

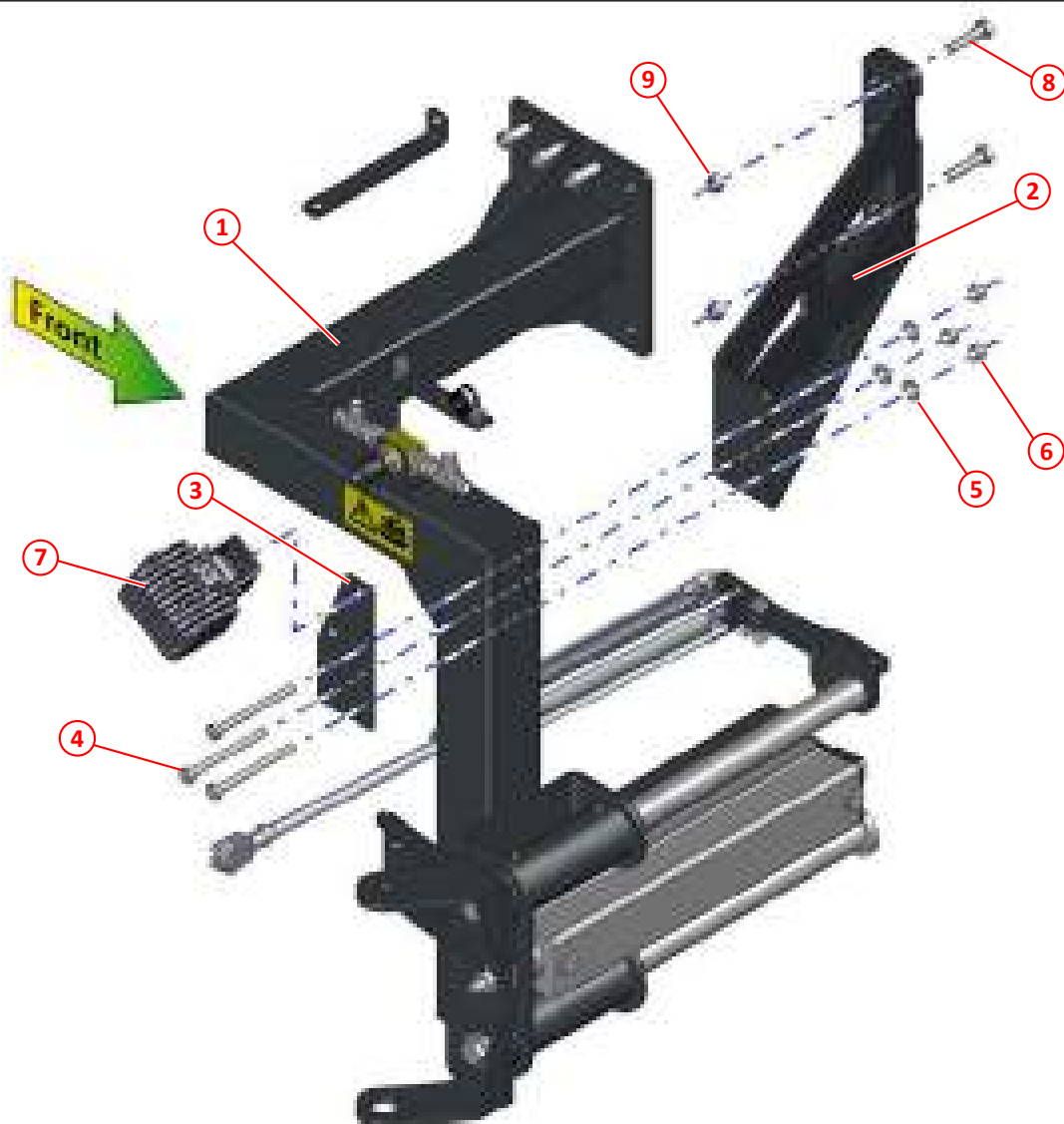


Figure 91: Support bracket and work light, auxiliary brush, right hand

Item	Part No	Qty	Description	
1	SCA046164	1	Brush carrier, auxiliary brush, right hand, Volvo FM 4600 E6 2500	117
2	SCA042918	1	Support bracket, auxiliary brush, right hand, Mercedes 1524 LKO E6	117
3	SCA044545	1	Work lamp mounting bracket, auxiliary brush	117
4	SCA011042	3	Bolt HT M10 x 110	
5	SCA011094	3	Washer M10	
6	SCA011075	3	Nyloc nut M10	
7	SCA047757	1	HELLA 18W work lamp 10-32V	
8	SCA000390	2	Set screw M12 x 1.25 x 50, plated	
9	SCA011086	2	Nyloc nut M12 X 1.25 fine	

i Note: - Parts stated for a particular manufacturer's chassis could also be used on a different manufacturer's chassis, if the design is compatible.

When wanting to purchase parts for auxiliary brush assemblies please supply your chassis details to ensure correct parts are supplied.

Pneumatic cylinder, swing in/out, auxiliary brush, right hand

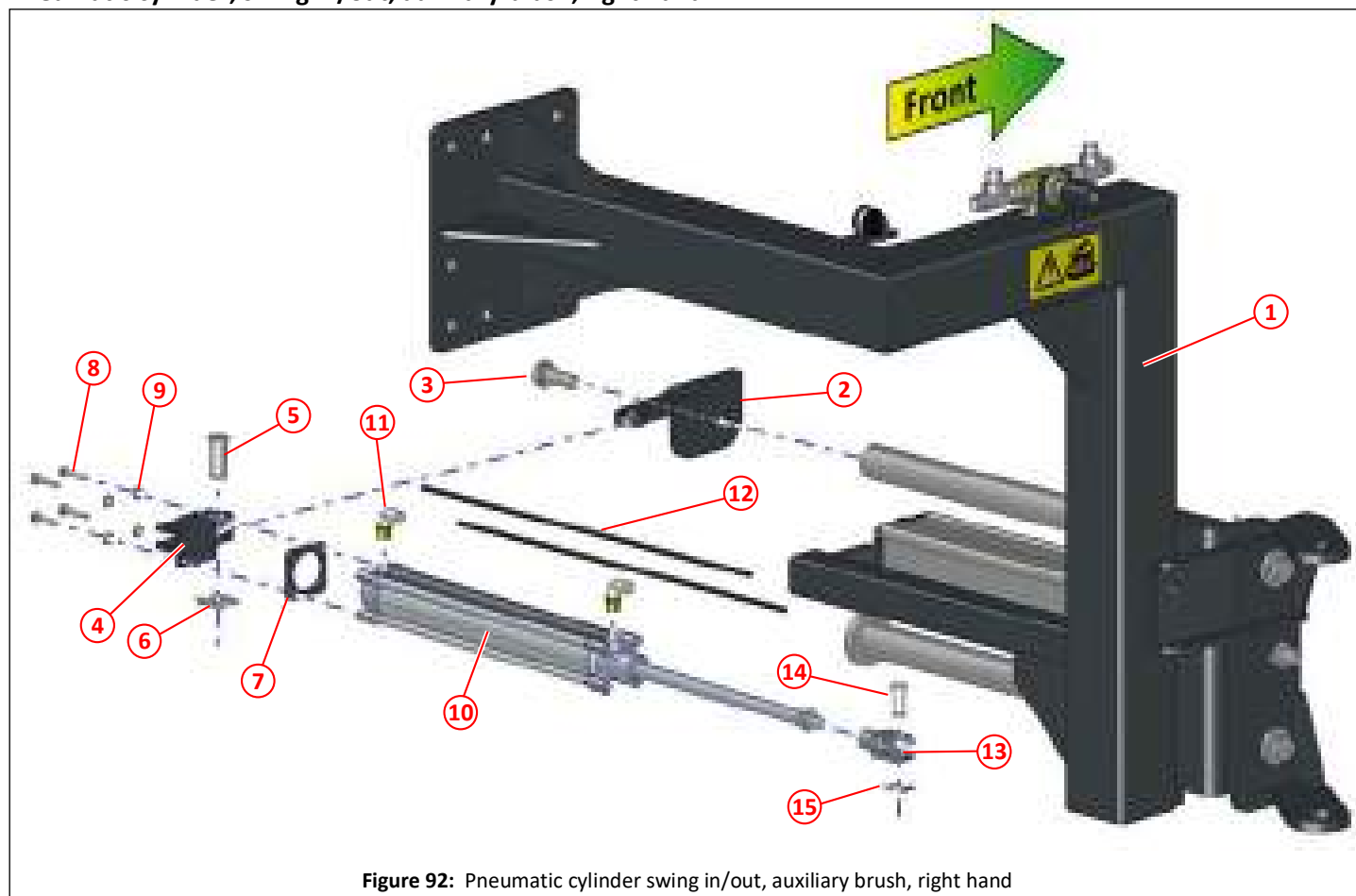


Figure 92: Pneumatic cylinder swing in/out, auxiliary brush, right hand

Item	Part No	Qty	Description	
1	SCA046164	1	Brush carrier, auxiliary brush, right hand, Volvo FM 4600 E6 2500	117
2	SCA030863	1	Push link, auxiliary brush, right hand	117
3	SCA011141	1	Bolt M16 x 35	
4	SCA049575	1	Pivot, 40 bore pneumatic cylinder	
5	SCA022673	1	Clevis pin, turned	
6	SCA022674	1	Clip, retaining M16	
7	SCA045502	1	Spacer, pneumatic cylinder	
8	SCA000020	4	Setscrew HT M6 x 30	
9	SCA011091	4	Spring washer M6	
10	SCA049695	1	Pneumatic cylinder 40 x 250	
11	SCA024646	2	6mm elbow x 1/4" BSP, grey	
12	SCA014572	2	6mm OD x 1mm WT black air pipe	
13	SCA014469	1	Clevis, air cylinder M12	
14	SCA023270	1	Clevis pin 12	
15	SCA023269	1	Safety fastener 12	

King post support, auxiliary brush, right hand

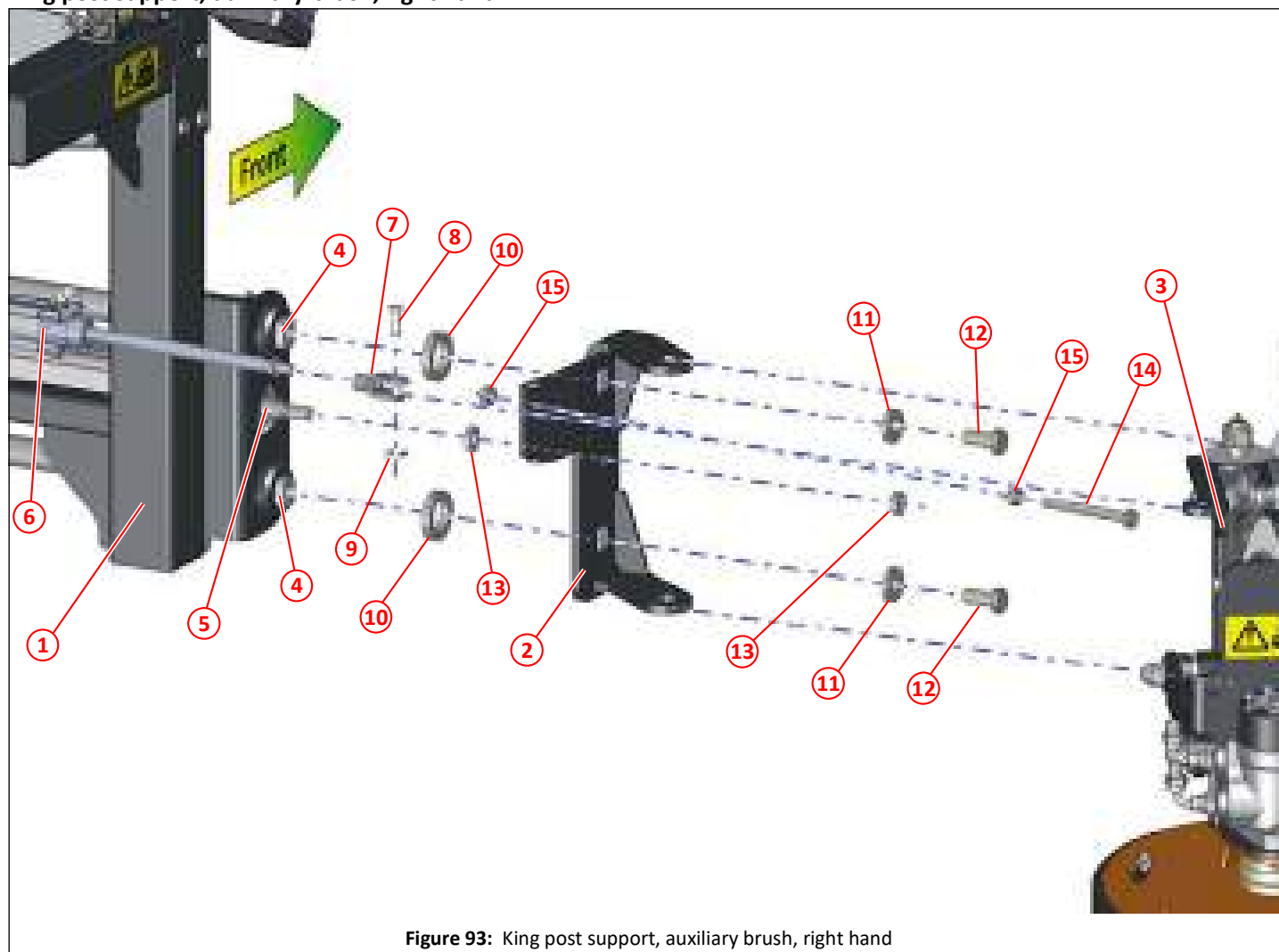


Figure 93: King post support, auxiliary brush, right hand

Item	Part No	Qty	Description	
1	SCA046164	1	Brush carrier, auxiliary brush, right hand, Volvo FM 4600 E6 2500	117
2	SCA030858	1	King post support, auxiliary brush, right hand	
3	SCA030857	1	King post, auxiliary brush, right hand	102
4	SCA030856	2	Thrust bar, auxiliary brush	
5	SCA026396	1	Pneumatic cylinder 63 x 320	
6	SCA049695	1	Pneumatic cylinder 40 x 250	
7	SCA014469	1	Clevis, air cylinder M12	
8	SCA023270	1	Clevis pin 12	
9	SCA023269	1	Safety fastener 12	
10	SCA039838	2	Spacer, thrust bar, auxiliary brush	
11	SCA030862	2	Small washer, auxiliary brush	
12	SCA011141	2	Bolt M16 x 35	
13	SCA000138	2	Nut M16 x 1.5, lock nut	
14	SCA011064	1	Bolt HT M12 x 110	
15	SCA011076	2	Full Nut M12	

Pneumatic cylinder, extend/retract, auxiliary brush, right hand

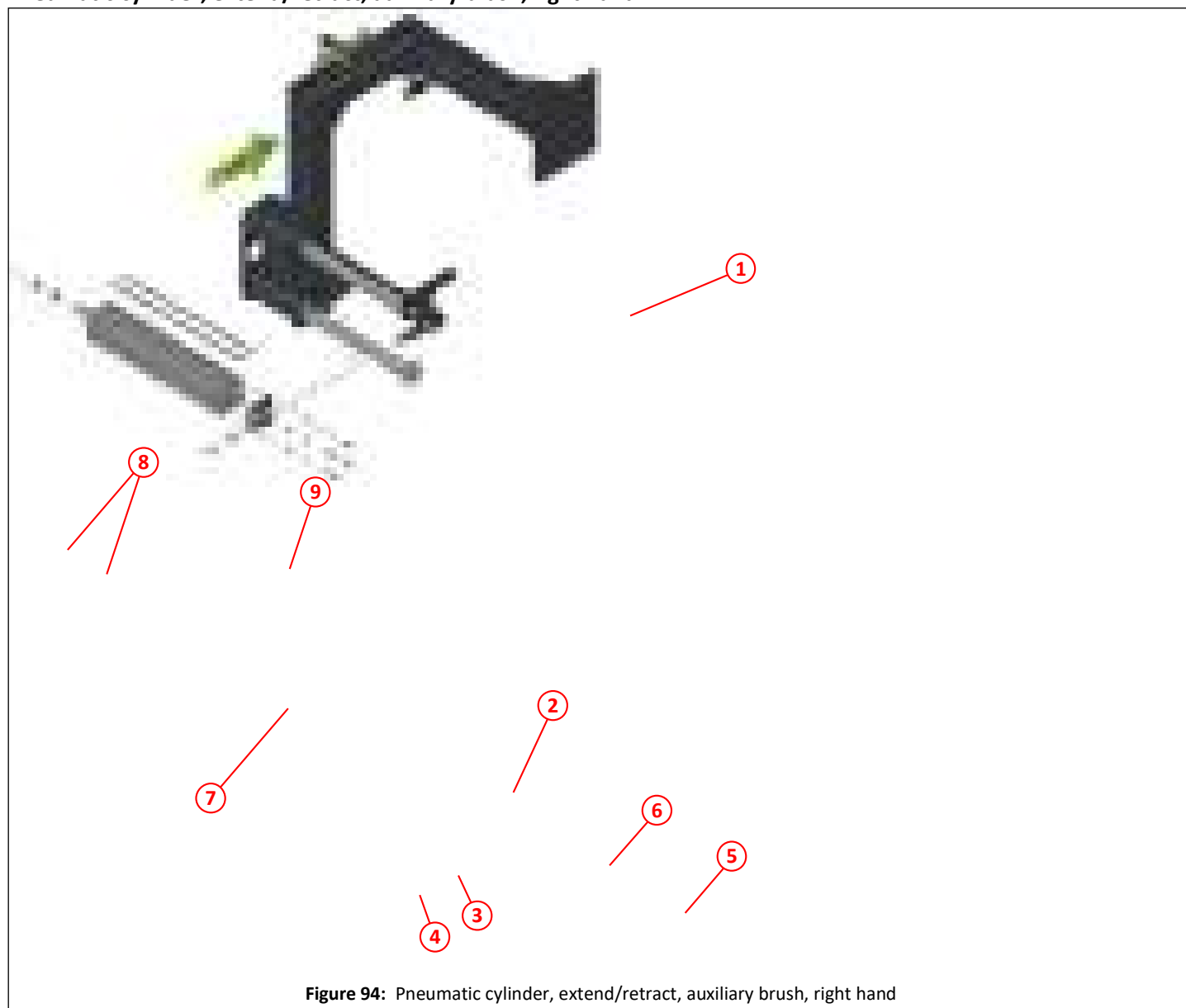


Figure 94: Pneumatic cylinder, extend/retract, auxiliary brush, right hand

Item	Part No	Qty	Description	
1	SCA046164	1	Brush carrier, auxiliary brush, right hand, Volvo FM 4600 E6 2500	117
2	SCA030859	1	Pivot, pneumatic cylinder, large	
3	SCA011094	1	Washer M10	
4	SCA011075	1	Nyloc nut M10	
5	SCA011011	4	Setscrew HT M8 x 25	
6	SCA011093	4	Spring washer M8	
7	SCA026396	1	Pneumatic cylinder 63 x 320	
8	SCA000138	2	Nut M16 x 1.5, lock nut	
9	SCA014572	2	6mm OD x 1mm WT black air pipe	

Thrust bars, extend/retract, auxiliary brush, right hand

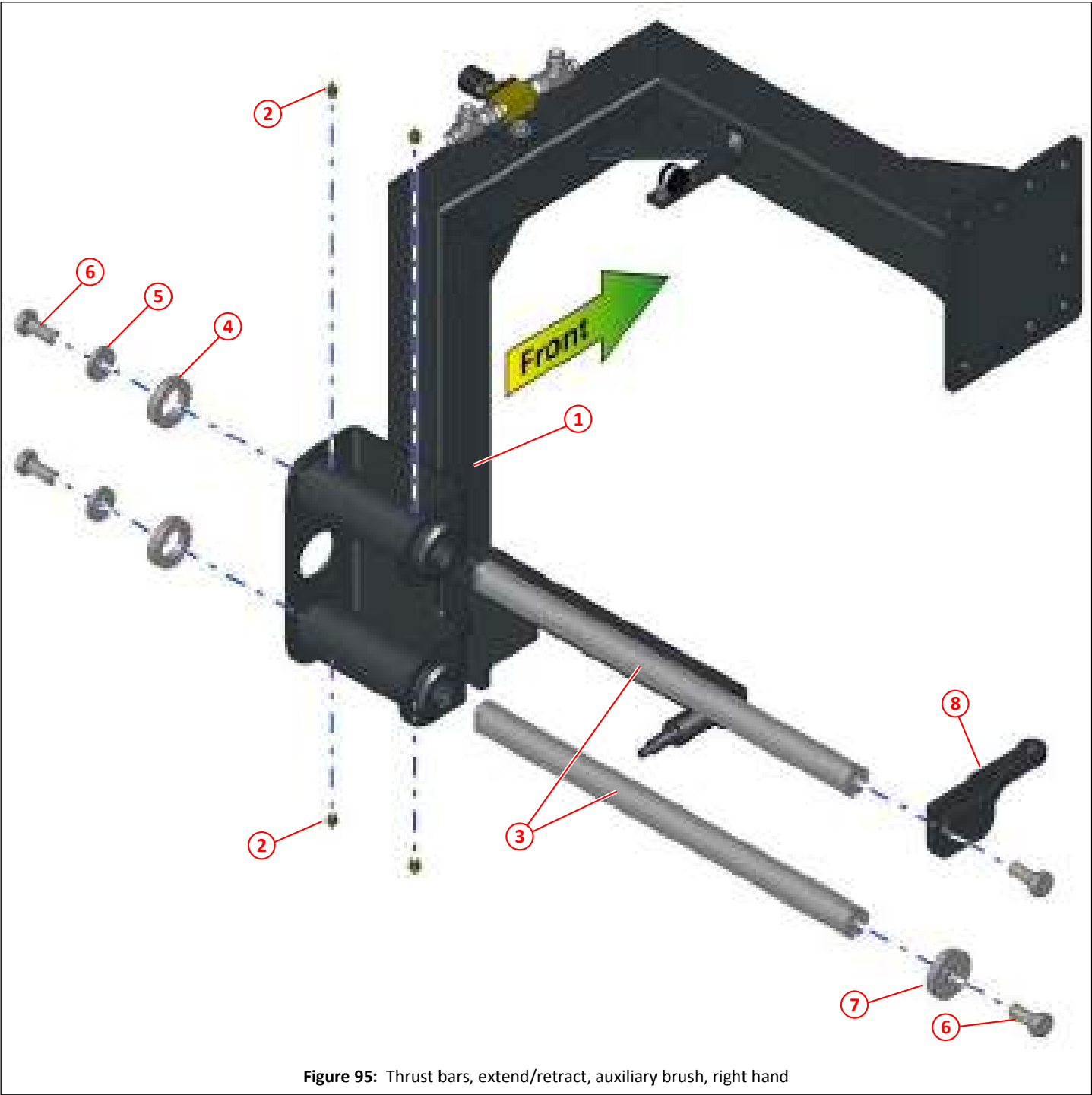


Figure 95: Thrust bars, extend/retract, auxiliary brush, right hand

Item	Part No	Qty	Description	
1	SCA046164	1	Brush carrier, auxiliary brush, right hand, Volvo FM 4600 E6 2500	117
2	SCA010903	4	Grease nipple 1/8" BSP, straight	
3	SCA030856	2	Thrust bar, auxiliary brush	
4	SCA039838	2	Spacer, thrust bar, auxiliary brush	
5	SCA030862	2	Small washer, auxiliary brush	
6	SCA011141	4	Bolt M16 x 35	
7	SC A030861	1	Large washer, auxiliary brush	
8	SCA030863	1	Push link, auxiliary brush, right hand	

Brush speed control valve, auxiliary brush, right hand

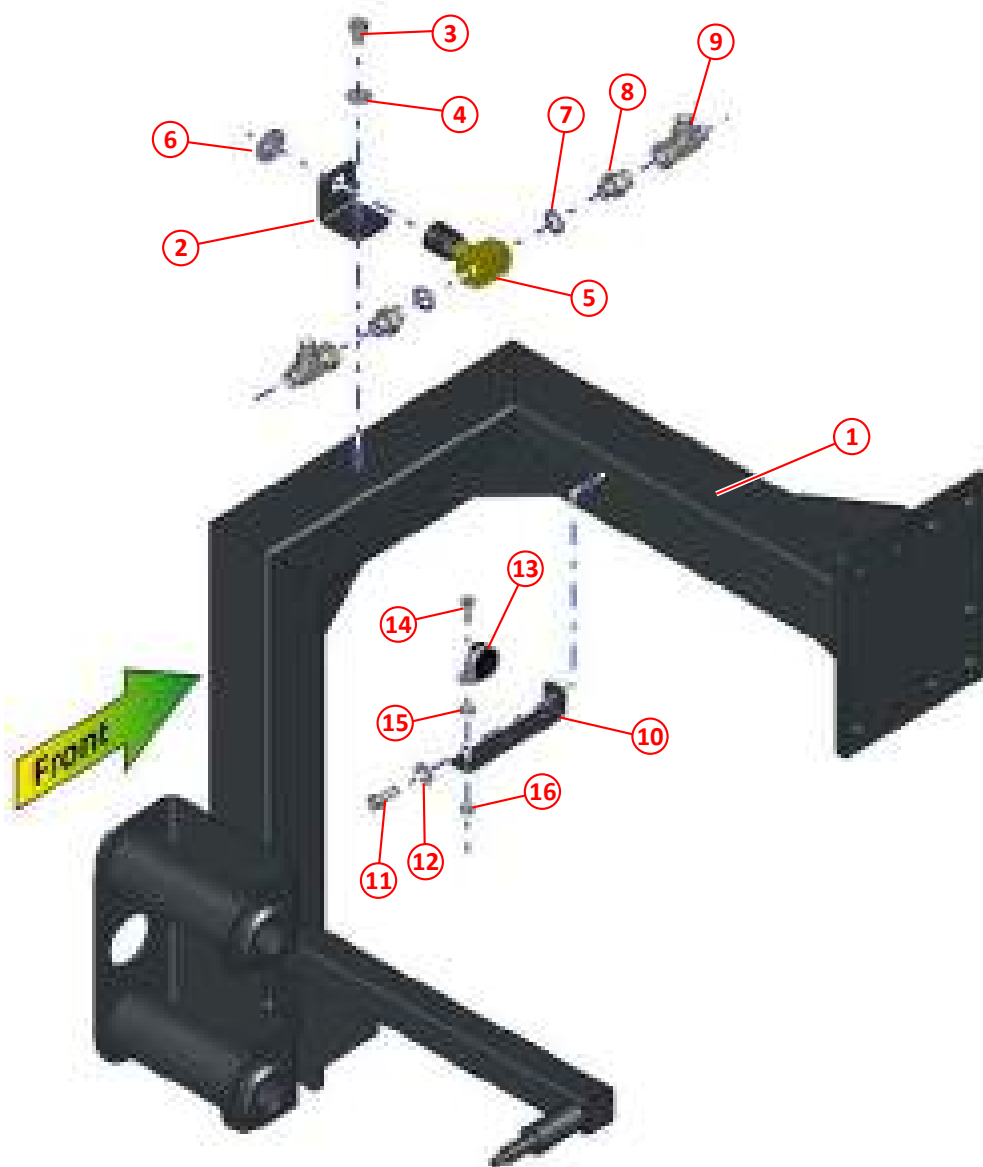


Figure 96: Brush speed control, auxiliary brush, right hand

Item	Part No	Qty	Description	
1	SCA046164	1	Brush carrier, auxiliary brush, right hand, Volvo FM 4600 E6 2500	117
2	SCA025007	1	Angle bracket	
3	SCA011031	1	Setscrew HT M10 x 25	
4	SCA011094	1	Washer M10	
5	SCA022341	1	Valve shut off, 3/8" BSP	
6	SCA038976	1	Panel mounting kit, valve shut off	
7	SCA011153	2	Dowty seal 3/8" BSP	
8	SCA011159	2	Adapter 3/8" BSP	
9	SCA011223	2	Tee 3/8" BSP, nut on run	
10	SCA031921	1	Bracket	
11	SCA011011	1	Setscrew HT M8 x 25	
12	SCA011092	1	Washer M8	
13	SCA005059	1	Clip, ID 25mm	
14	SCA011067	1	Setscrew HT M6 x 20	
15	SCA011090	1	Washer M6	
16	SCA011071	1	Nyloc nut M6	

Carrier and support mounting bolts, auxiliary brush, right hand

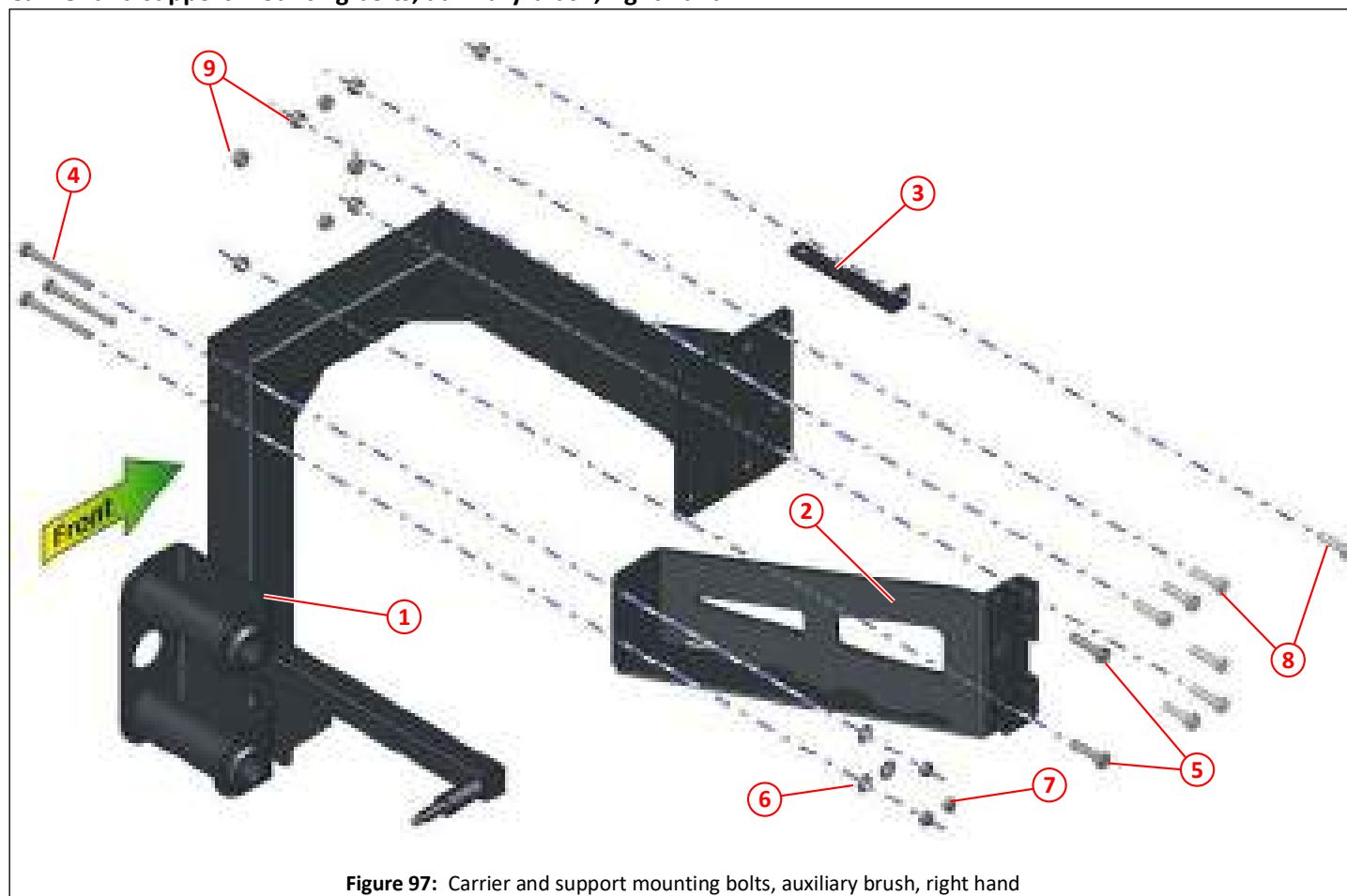


Figure 97: Carrier and support mounting bolts, auxiliary brush, right hand

Item	Part No	Qty	Description	
1	SCA046164	1	Brush carrier, auxiliary brush, right hand, Volvo FM 4600 E6 2500	117
2	SCA042918	1	Support bracket, auxiliary brush, right hand, Mercedes 1524 LKO E6	117
3	SCA013192	1	Bracket	
4	SCA011042	3	Bolt HT M10 x 110	
5	SCA000390	2	Setscrew M12 x 1.25 x 50, plated	
6	SCA000270	3	SS P/WASHER M10 FORM C	
7	SCA011075	3	Nyloc nut M10	
8	SCA000128	7	Setscrew M12 x 1.25 FINE x 45	
9	SCA011086	9	Nyloc nut M12 x1.25 FINE	

i Note: - Parts stated for a particular manufacturer's chassis could also be used on a different manufacturer's chassis, if the design is compatible.

When wanting to purchase parts for auxiliary brush assemblies please supply your chassis details to ensure correct parts are supplied.

Carriers and support brackets for various chassis, auxiliary brush, right hand

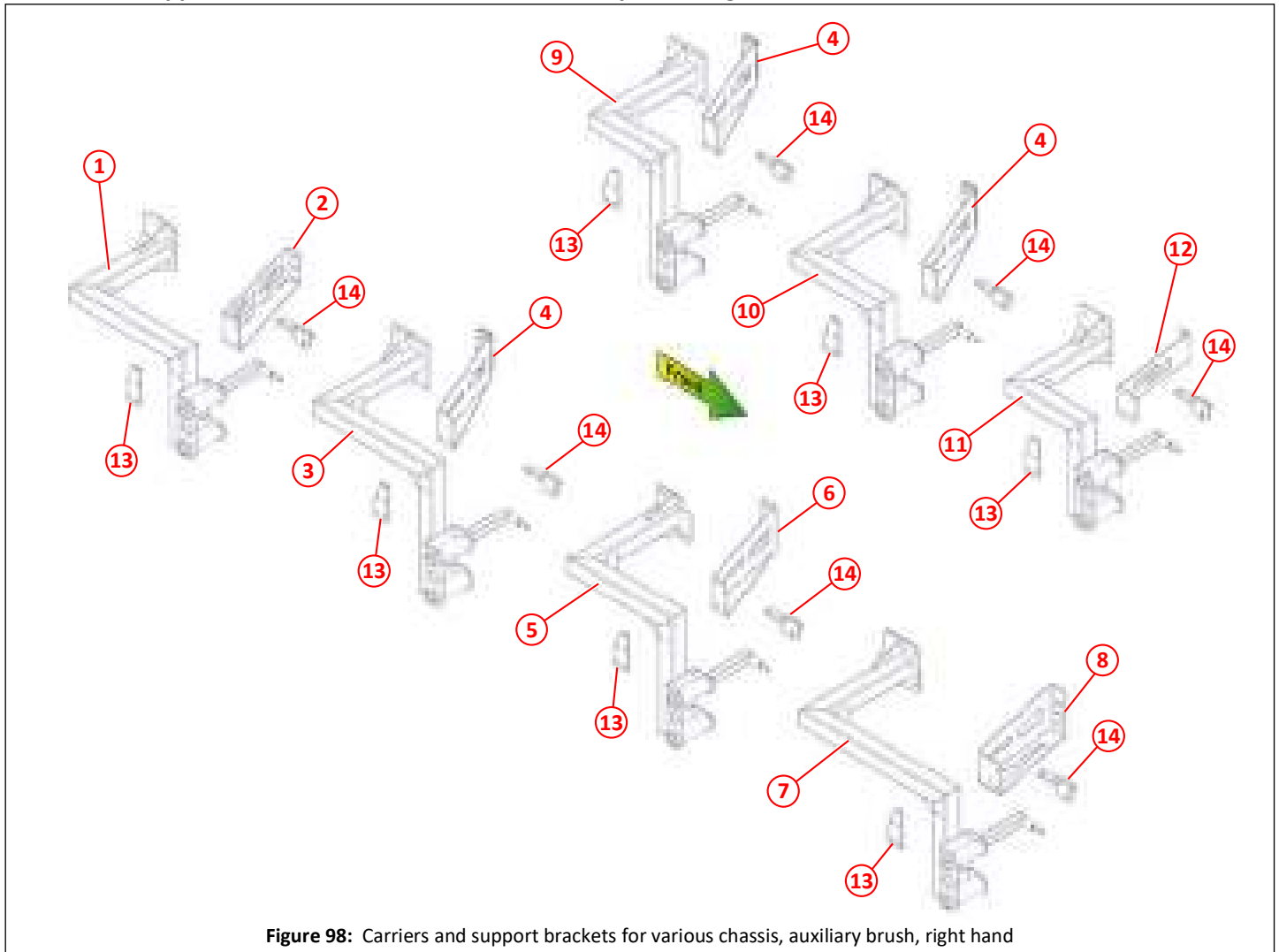


Figure 98: Carriers and support brackets for various chassis, auxiliary brush, right hand

Item	Part No	Qty	Description
1	SCA044796	1	Brush carrier, auxiliary brush, right hand - REN D16 3600 E6
2	SCA044797	1	Support bracket, auxiliary brush, right hand - REN D16 3600 E6
3	SCA044361	1	Brush carrier, auxiliary brush, right hand - VOLVO FM 370 4600 E6
4	SCA042918	1	Support bracket, auxiliary brush, RH - MERCEDES 1524 LKO E6
5	SCA044245	1	Brush carrier, auxiliary brush, right hand - MAN TGM 18.290 E6
6	SCA044246	1	Support bracket, auxiliary brush, right hand - MAN TGM 18.290 E6
7	SCA044664	1	Brush carrier, auxiliary brush, right hand - SCANIA G360 4500 E6
8	SCA044242	1	Support bracket, auxiliary brush, right hand - SCANIA G360 E6
9	SCA046164	1	Brush carrier, auxiliary brush, right hand - VOL FM 4600 E6 2500
10	SCA042917	1	Brush carrier, auxiliary brush, right hand - MERCEDES 1524 LKO E6
11	SCA049630	1	Brush carrier, auxiliary brush, right hand - VOLVO FL16 3350WB
12	SCA049631	1	Brush carrier, auxiliary brush, right hand - VOLVO FL16 3350WB
13	SCA044545		Work lamp mounting bracket, auxiliary brush
14	SCA030863		Push link, auxiliary brush, right hand

Note 1:- these are examples of carriers and their associated support brackets for the auxiliary brush. If your chassis is not listed here then please contact your Scarab Dealer, with your sweepers Works Number and chassis information.

Note 2:- Unless explicitly stated the majority of the other parts listed in the previous pages regarding the auxiliary brush are applicable across all machines and chassis. For clarification, please contact your Scarab Dealer to confirm parts for your sweeper, with your sweepers Works Number and chassis information.

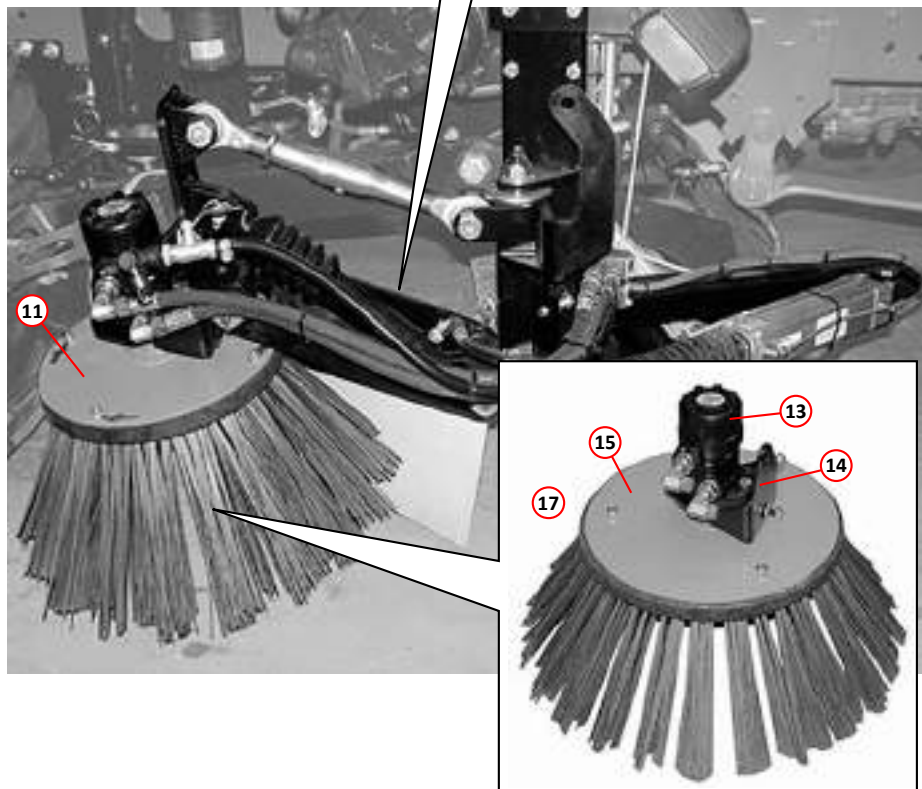
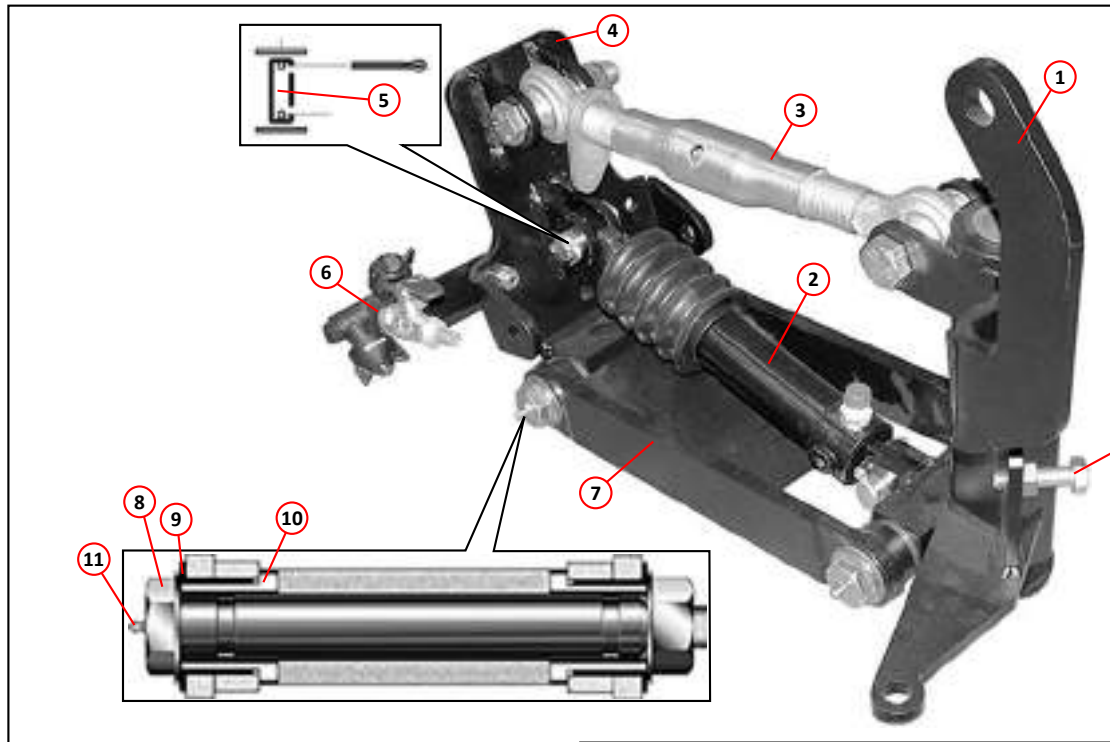
Legacy sweeping components

Item	Part Number	Quantity	Description
Side Brush Arrangement (legacy)			
1	023124	1	King post, RH
NI	023120	1	King post, LH
2	024539	1	. Ram, hydraulic (raise/lower) Page 512
3	013011	1	. Link, top (turn-buckle)
	011140	2	. . Bolt, M18 x 90mm
	011138	2	. . Washer, M18
	011139	2	. . Nut, M18, Nyloc
4	023121	1	. Plate, Swivel
5	010067	2	. . Pin, Ram Pivot, ø20mm x 50mm
	011103	2	. . . Washer, M20
	011122	2	. . . Pin, split, $\frac{3}{16}$ " x $1\frac{1}{2}$ "
6		1	. Brush spray nozzle assembly Page 420
7	014801	1	. Link, lower
8	014796 *	2	. . Bolt, pivot, M16 (special with grease point)
	014798 *	2	. . Washer, 24 x 40 x 3
	014797 *	2	. . Washer, 17 x 40 x 3
	011060 *	2	. . Nut, M16, Nyloc
9	013012 *	2	. . . Bush, plastic
10	014799 *	4	. . Sleeve, spacer
11	010903	2	. . Grease point, straight, $\frac{1}{8}$ " BSP
12	011055	1	. . Bolt, M12 x 60mm (Merlin/XP)
12	000110	1	. . Bolt, M12 x 80mm (Magnum)
	011076	1	. . Nut, M12
13	010749	1	. . Motor, brush drive, hydraulic Page 510
14		1	. . Plate, motor swivel
	011075	2	. . . Nut, M10, Nyloc
15	014067	1	. . Hub, side brush, 3 holes
16	011688	1	. . Hub, side brush, 4 holes
NI	040058 **	1	 Spacer, brush hub
	040197	1	 Washer, safety, Schnorr
	011012	1	 Screw, M8 x 30mm
17	023470	1	Side brush, ø315mm, 4 stud (steel)
17	023473	1	Side brush, ø400mm, 3 stud (steel)
17	020921	1	Side brush, ø400mm, 3 stud (weed ripping)
17	025744	1	Side brush, ø400mm, 4 stud (poly)

Notes:-

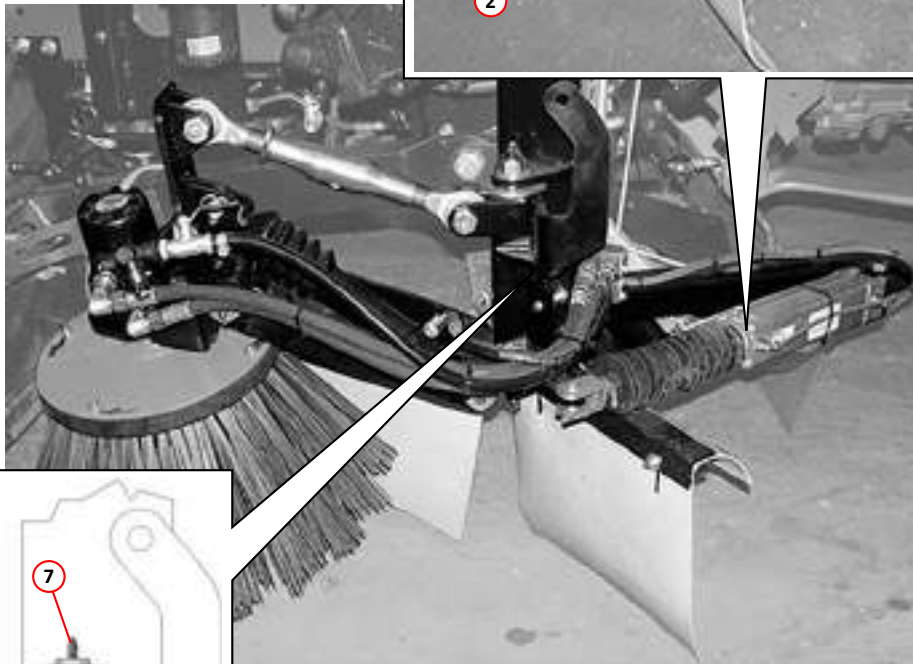
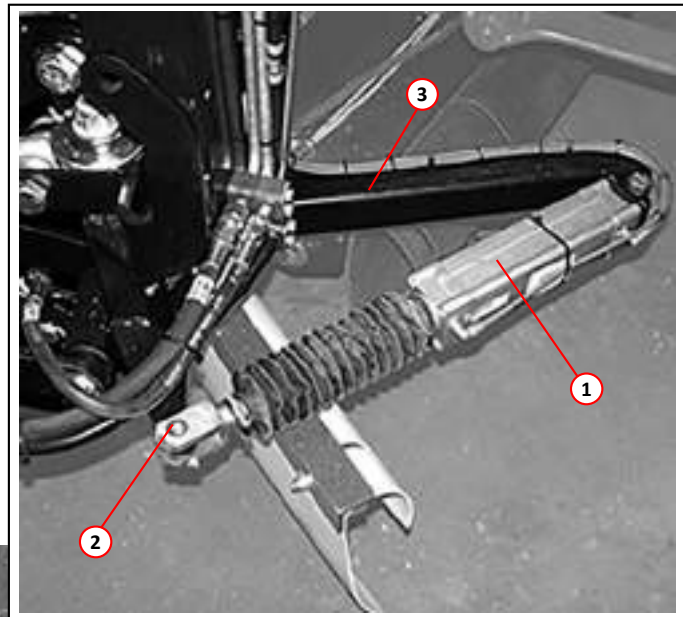
* These Items comprise the lower link bush kit 024611.

** This part is required if the drive motor is manufactured by Eaton, please contact Scarab Parts Department.

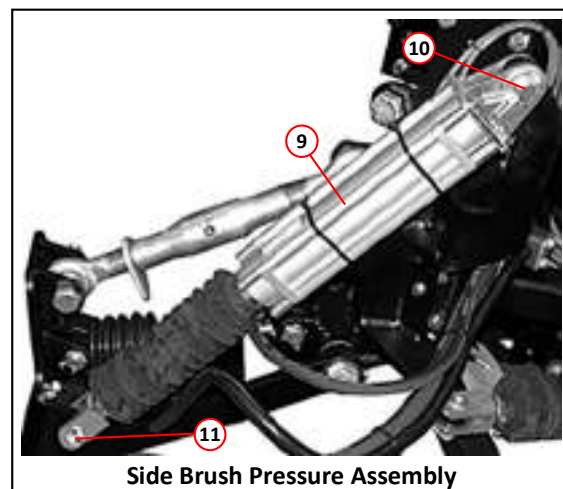
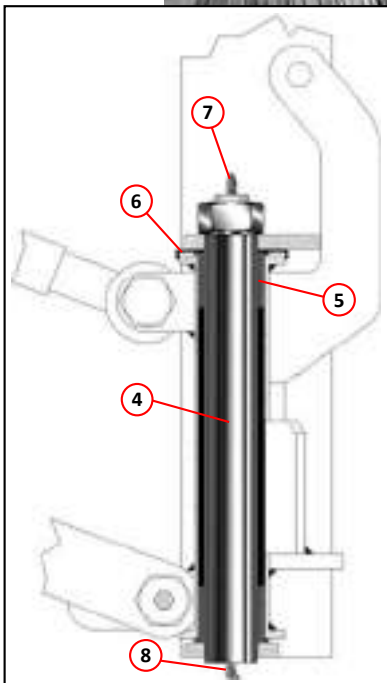


Side Brush Arrangement (Hydraulic Lift)

Item	Part Number	Quantity	Description
Side Brush Swing Out & Brush Pressure Arrangement (legacy)			
1	020298	1	Cylinder, pneumatic, swing-out Page 544
	011260	1	. Bolt, M16 x 70mm
	011060	1	. Nut, M16, Nyloc
2	022673	1	. Pin, clevis
	022674	1	. Pin, clevis, retainer
3	021520	1	Bracket, swing-out cylinder, RH (Merlin)
NI	021519	1	Bracket, swing-out cylinder, LH (Merlin)
NI	021722	1	Bracket, swing-out cylinder, RH (Magnum)
NI	021721	1	Bracket, swing-out cylinder, LH (Magnum)
	011407	2	. Bolt, M10 x 120mm
	011077	2	. Nut, M10, Nyloc
4	013007	1	Kingpin
	011102	1	. Washer, M20
	011082	1	. Nut, M20, Nyloc
5	013012	2	. Bush, plastic
6	013013	1	. Cap
7	010903	3	. Grease point, straight, $\frac{1}{8}$ " BSP
NI	020241	3	. Grease, straight connector (auto-lube only)
	020243	3	. Cone (auto-lube only)
	020242	3	. Nut (auto-lube only)
8	010901	1	. Grease point, 45°, $\frac{1}{8}$ " BSP
NI	020240	1	. Grease, elbow connector (auto-lube only)
	020243	3	. Cone (auto-lube only)
	020242	3	. Nut (auto-lube only)
9	020298	1	Cylinder, pneumatic, brush pressure (option) Page 544
10	023123	1	. Pin, cylinder retaining
	011135	2	. Washer, M16
	011122	2	. Pin, split $\phi \frac{3}{16}$ x $1\frac{1}{2}$ "
11	022673	1	. Pin, clevis



Side Brush Swing Out Arrangement



Side Brush Pressure Assembly

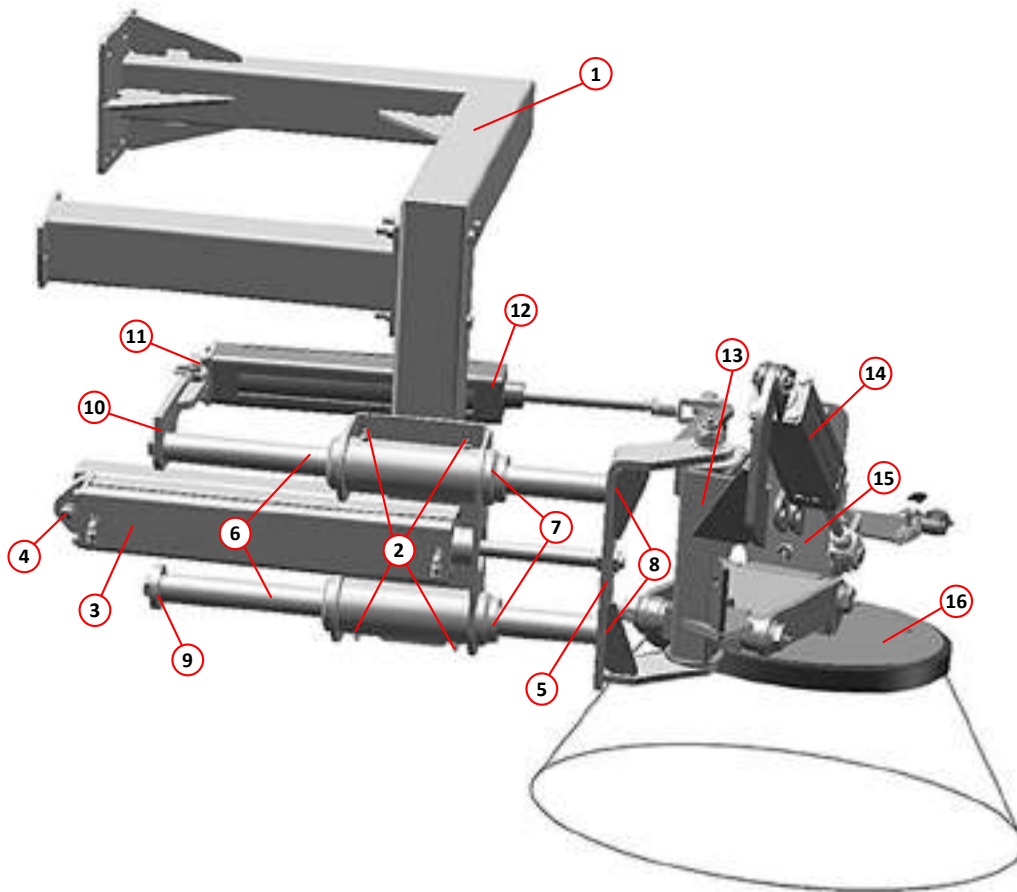
i Please note that pneumatic cylinders are no longer fitted with bellows.

Item	Part Number	Quantity	Description
Auxiliary Side Brush (legacy) - (Option)			
1	*	1	Main support frame
2	010903	4	. Grease point, straight, $\frac{1}{8}$ " BSP
3		1	. Pneumatic cylinder, brush (extend/retract) Page 546
4	030859	1	. Bracket, extend/retract ram, pivot
5	030858	1	. Bracket, kingpost support
6	030856	2	. Thrust bar
7	039838	2	. . Spacer
8	030862	2	. . Washer, special, small
	000079	2	. . . Bolt, M16 x 55mm
9	030861	1	. . Washer, special, large
	000079	1	. . . Bolt, M16 x 55mm
10	030863	1	. . Push Link
	000079	1	. . . Bolt, M16 x 55mm
11	030860	1	. . Bracket, brush swing in/out, ram pivot
12		1	. . . Pneumatic cylinder, brush (swing in/out) Page 548
13	030857 **	1	. . Kingpost pivot
14		1	. Pneumatic cylinder, brush (raise/lower) Page 540
15	**	1	Brush arrangement Page 118
16		1	Brush assembly Page 118

Notes:-

* Item is chassis specific and/or subject to optional configurations. Before ordering replacement parts, please contact the Scarab Parts Department, quoting your model type and serial number.

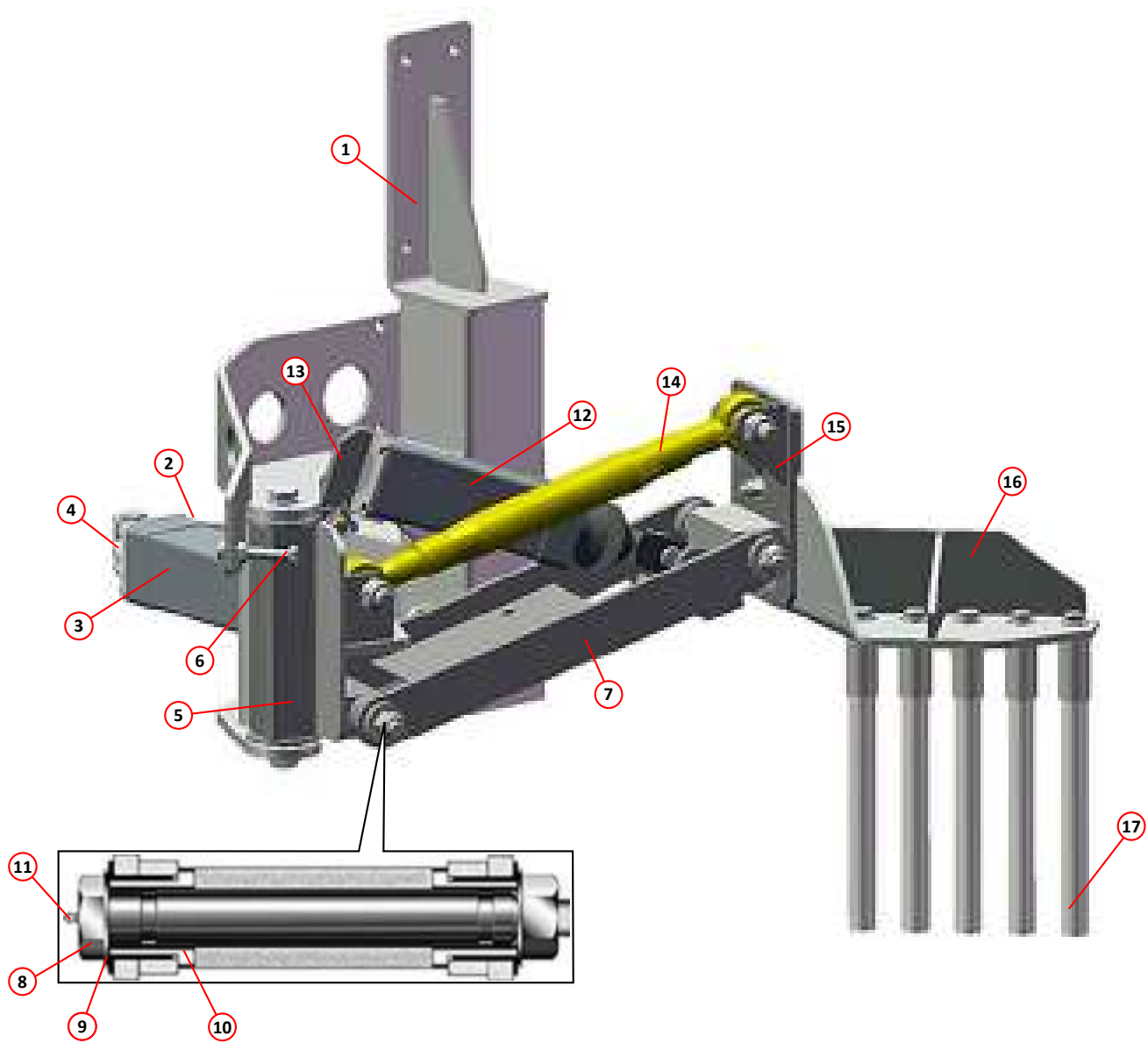
** Components used for the brush arrangement are similar as described on Page 118 except for the modified kingpost and the use of a pneumatic lift ram instead of the hydraulic lift ram.



i Left hand sweep version illustrated.
Design of main support frame is just an example, please contact Scarab Parts Department.

A Typical Auxiliary Side Brush Arrangement

Item	Part Number	Quantity	Description
Auxiliary Side Brush Scraper (legacy) - (Option)			
1	042277	1	Main support frame LH
NI		1	Main support frame RH
2	034026	1	. Arm swing in/out pneumatic cylinder
	011032	2	. . HT set screw, M10 x 30
	011075	2	. . Nut, M10, Nyloc
3	021026	1	. Pneumatic cylinder, swing in/out, 63 x 100
NI	021510	1	. . Bellows 50 x 160
NI	020299	1	. . Clevis
NI	022673	1	. . Clevis pin
NI	022674	1	. . Retaining clip
4	021032	1	. . Pivot bracket, swing in/out cylinder
	011010	4	. . . HT set screw, M8 x 20
	011260	1	. . . HT set screw, M16 x 70
	011060	1	. . . Nut, M16, Nyloc
5	020763	1	. Swivel post LH
NI	010903	2	. . Grease point, straight, $\frac{1}{8}$ " BSP
NI	020765	1	. . King pin
NI	013012	2	. . Bush swivel post
	011135	2	. . Washer M16
	011141	2	. . Bolt M16 x 35mm
NI	010903	1	. . Grease point, $\frac{1}{8}$ " BSP, straight
6	011043	1	. . Stop bolt M10 x 70
	011075	1	. . . Nut, M10, Nyloc
		1	. . . Nut, M10
7	020764	1	. Brush link
8	014796	2	. . Pivot bolt, M16, special
	014798	2	. . Washer 40 x 24 x 3
9	013012	2	. . Bush, plastic
10	014799	4	. . Sleeve, spacer
	014797	2	. . Washer 40 x 17 x 3
	011060	2	. . Nut, M16, Nyloc
11	010903	2	. . Grease point, straight, $\frac{1}{8}$ " BSP
12	021026	1	. . Pneumatic cylinder, raise/lower, 63 x 100
NI	021510	1	. . . Bellows 50 x 160
NI	020299	2	. . . Clevis
NI	022673	2	. . . Clevis pin
NI	022674	2	. . . Retaining clip
13	021031	1	. . . Pivot bracket, raise/lower cylinder
	011010	4	. . . HT set screw, M8 x 20
NI	022673	2	. . . Clevis pin
NI	022674	2	. . . Retaining clip
14	020685	1	. . Top link
	011140	2	. . . Set screw, M18 x 90
	000140	2	. . . Nut, M18, Nyloc
15	020769	1	. . Swivel plate
16	042287	1	. . Scraper element holder
	011033	2	. . . HT set screw, M10 x 35
	011094	4	. . . Washer, M10
	011075	2	. . . Nut, M10, Nyloc
17	020499	5	. . . Scraper element, wire
	011050	5	 Set screw, M12 x 20
	011096	5	 Washer, M12



 Left hand sweep version illustrated.

Auxiliary Side Brush Scraper Arrangement

Suction

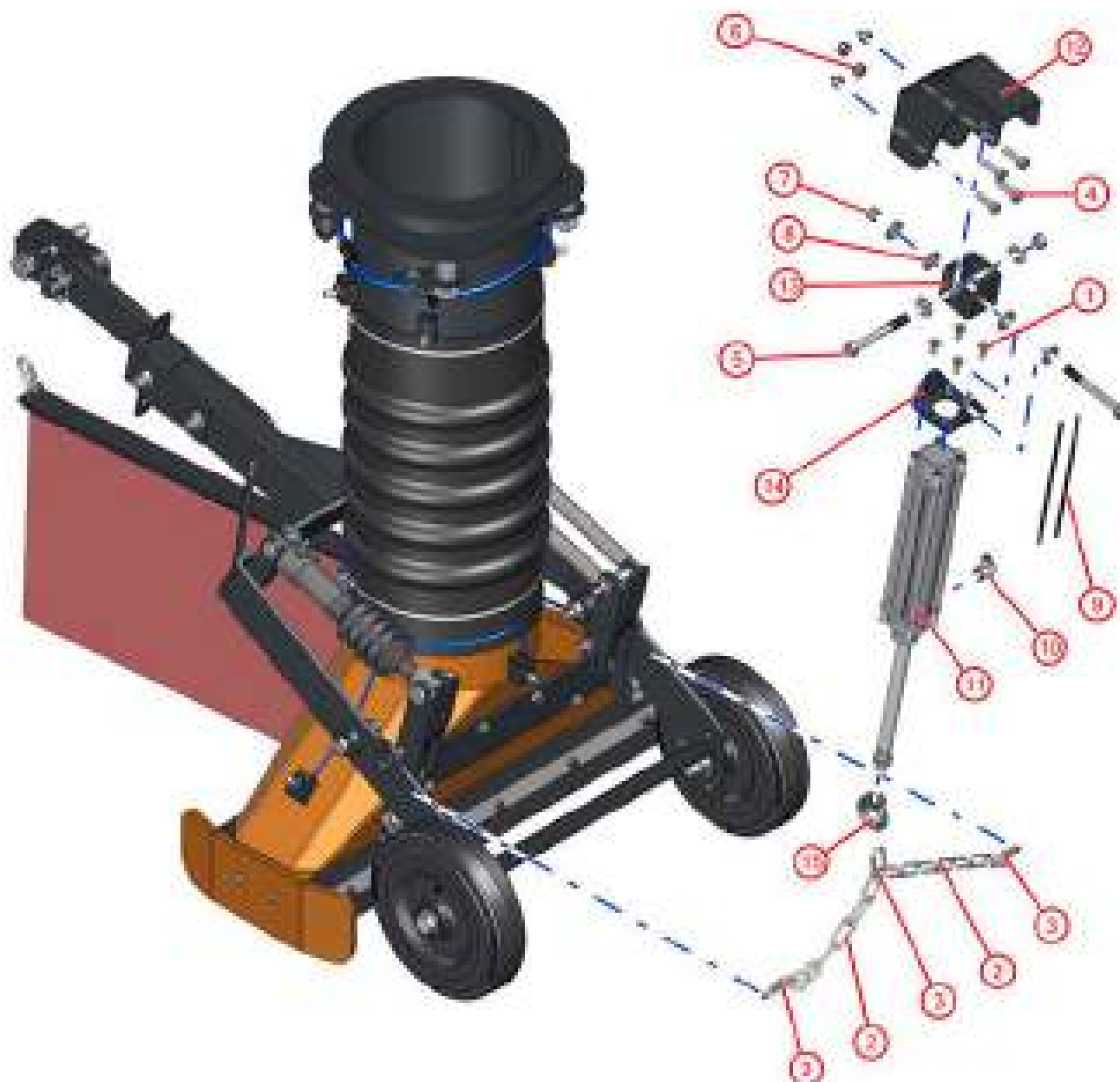
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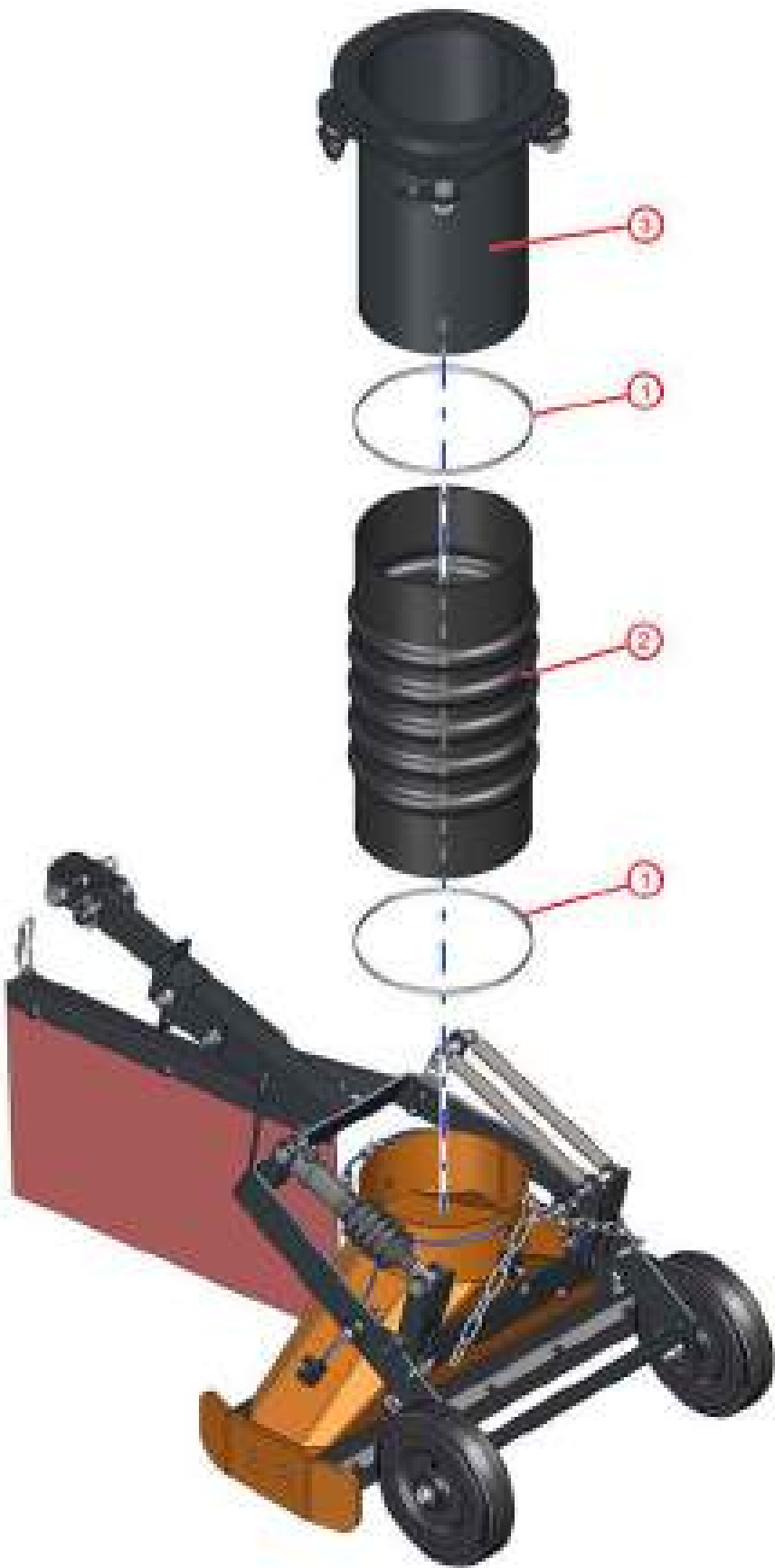
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Suction nozzle - lift cylinder - left hand



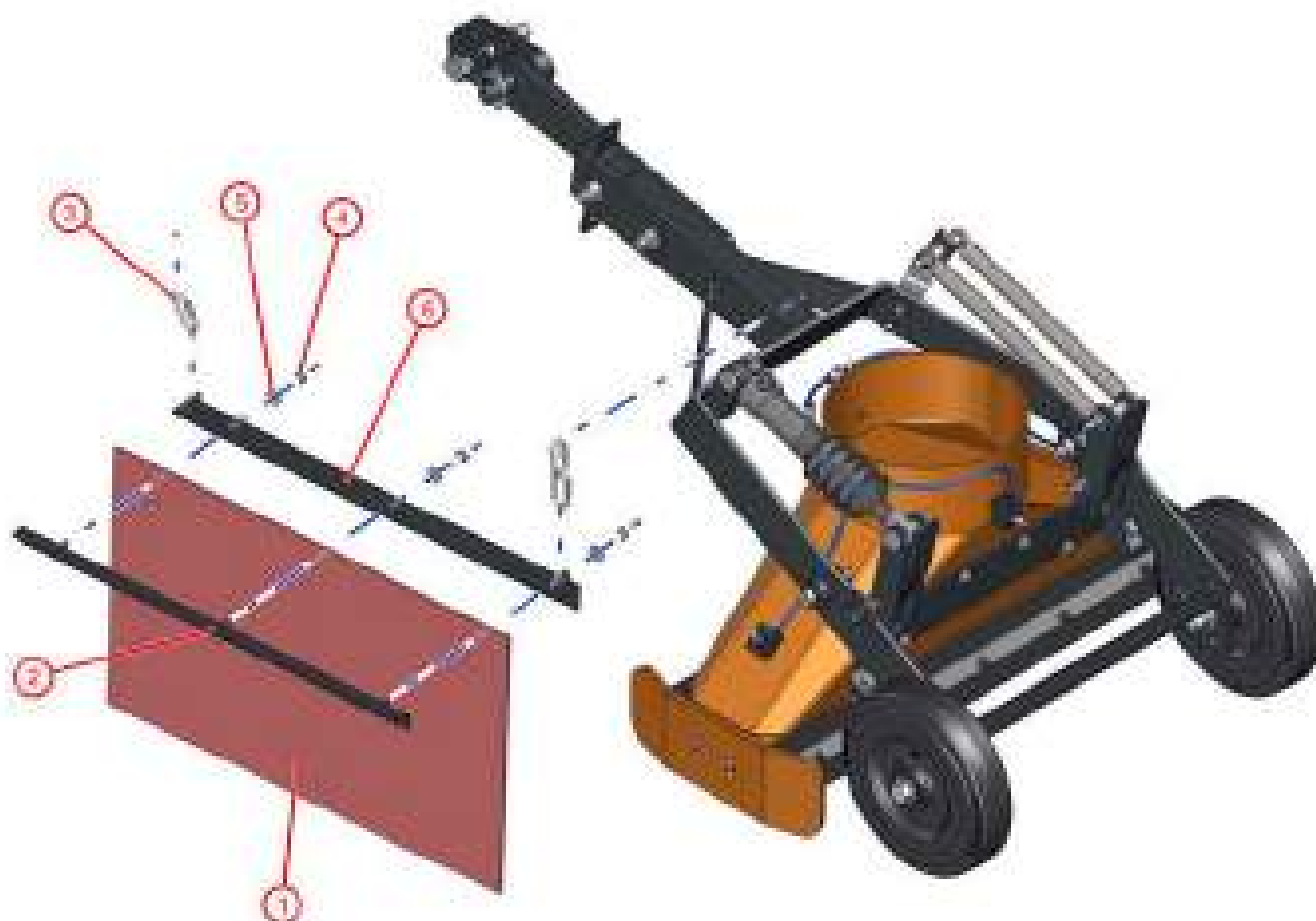
BOM ID	Part No.	Qty	Description
1	SCA000003	4	F.M8 X 20 CSK SKT PLATED SCREW
2	SCA010525	13	CHAIN LARGE LINK
3	SCA010506	3	CARABINER
4	SCA011032	4	F.HEX HT SETSCREW M10 X 30
5	SCA011067	2	F.HEX BOLT M12 X 100
6	SCA011075	4	F.M10 T NYLOC NUT
7	SCA011077	2	F.M12 T NYLOC NUT
8	SCA011086	6	F.PIWASHER M12 FORM C
9	SCA014572	2	P.6MM OD X 1MM WT BLACK AIR PIPE
10	SCA021156	1	P.PNEUMATIC FLOW REGULATOR
11	SCA030772	1	P.PNEUMATIC CYLINDER 50 X 200
12	SCA030775	1	CYLINDER MOUNT BRKT NOZZLE LIFT ASSY
13	SCA030776	1	CYLINDER PIVOT BLOCK NOZZLE LIFT ASSY
14	SCA030777	1	CYLINDER PIVOT. NOZZLE LIFT ASSY
15	SCA032293	1	M16 X 1.5 RING NUT MAJOR VERTICAL LIFT

Suction nozzle - hose and spigot - left hand



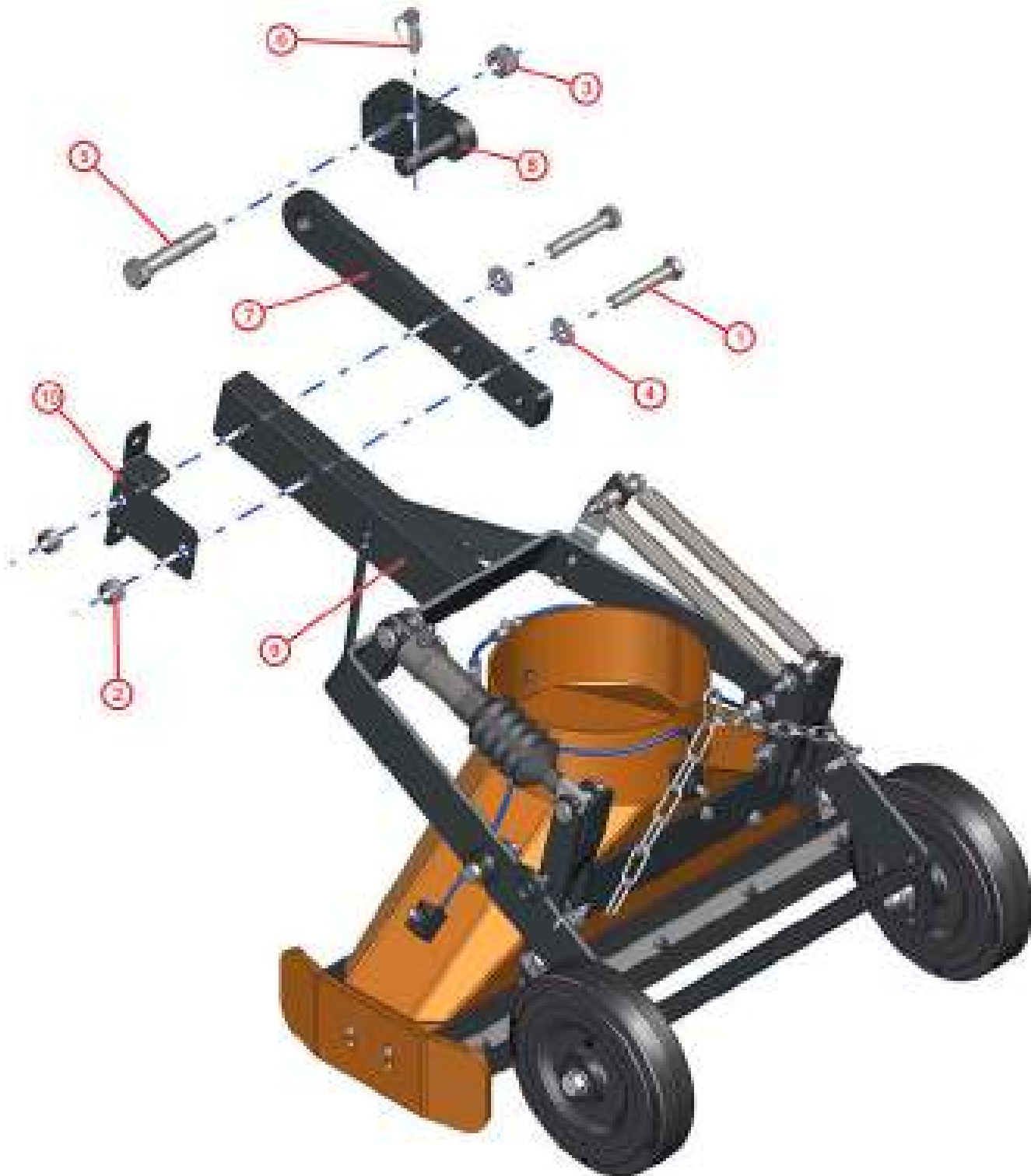
BOM ID	Part No.	Qty	Description
1	SCA012933	2	JUBILEE CLIP No 10.50 (235 - 297)
2	SCA013028	1	HOSE SUCTION MAJOR
3	SCA049299	1	SUCTION SPIGOT 410 LG (SPRUNG)

Suction nozzle - skirt - left hand



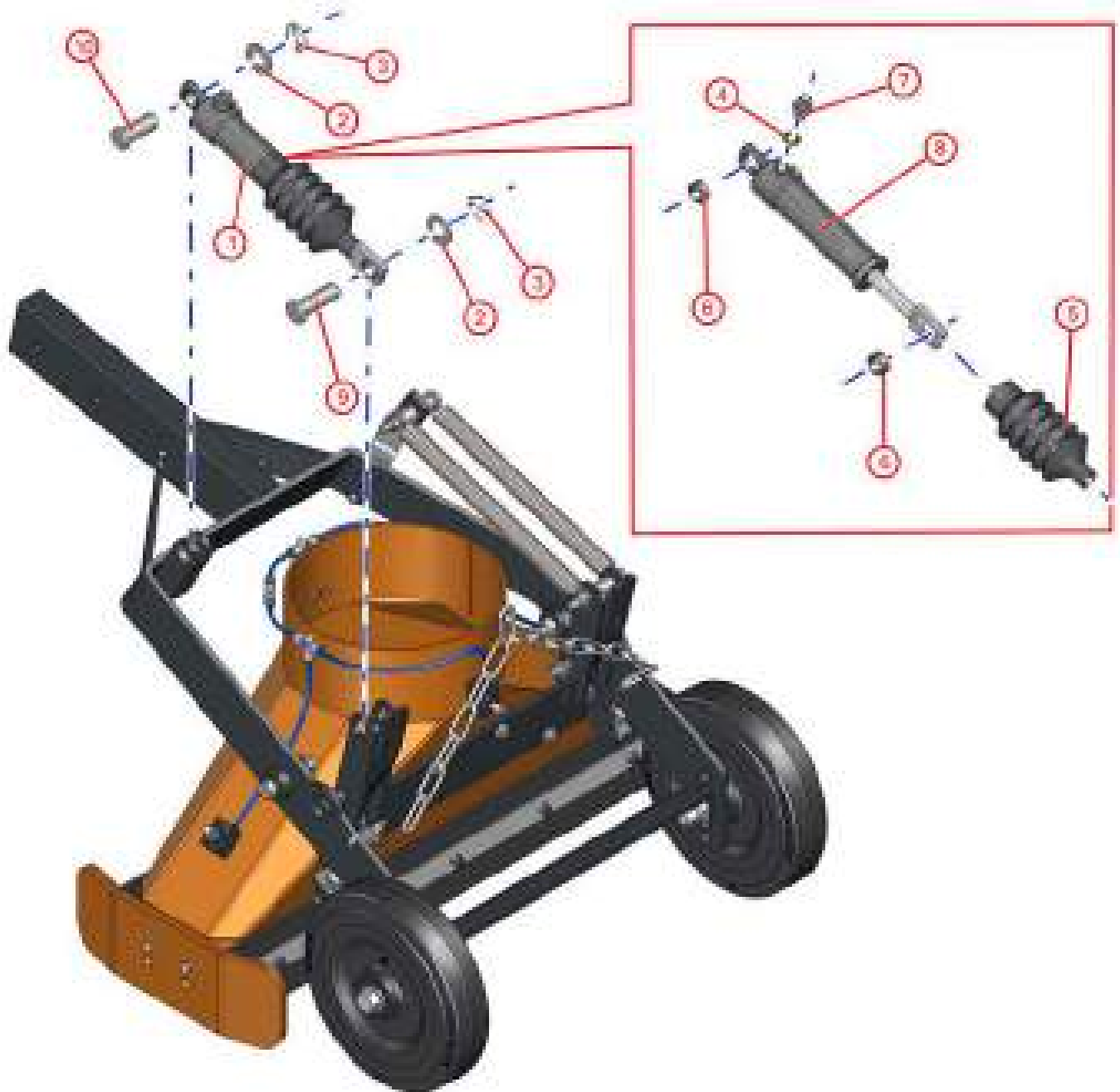
BOM ID	Part No.	Qty	Description
1	SCA010247	1	SIDE BRUSH SKIRT 3-PITCH HEAVY DUTY
2	SCA010275	1	SKIRT CLAMP
3	SCA010006	3	CARABINER
4	SCA011073	3	F M8 T NYLOC NUT
5	SCA011092	3	F PWASHER M8 FORM C
6	SCA013145	1	SKIRT ANGLE

Suction nozzle - tow point - left hand



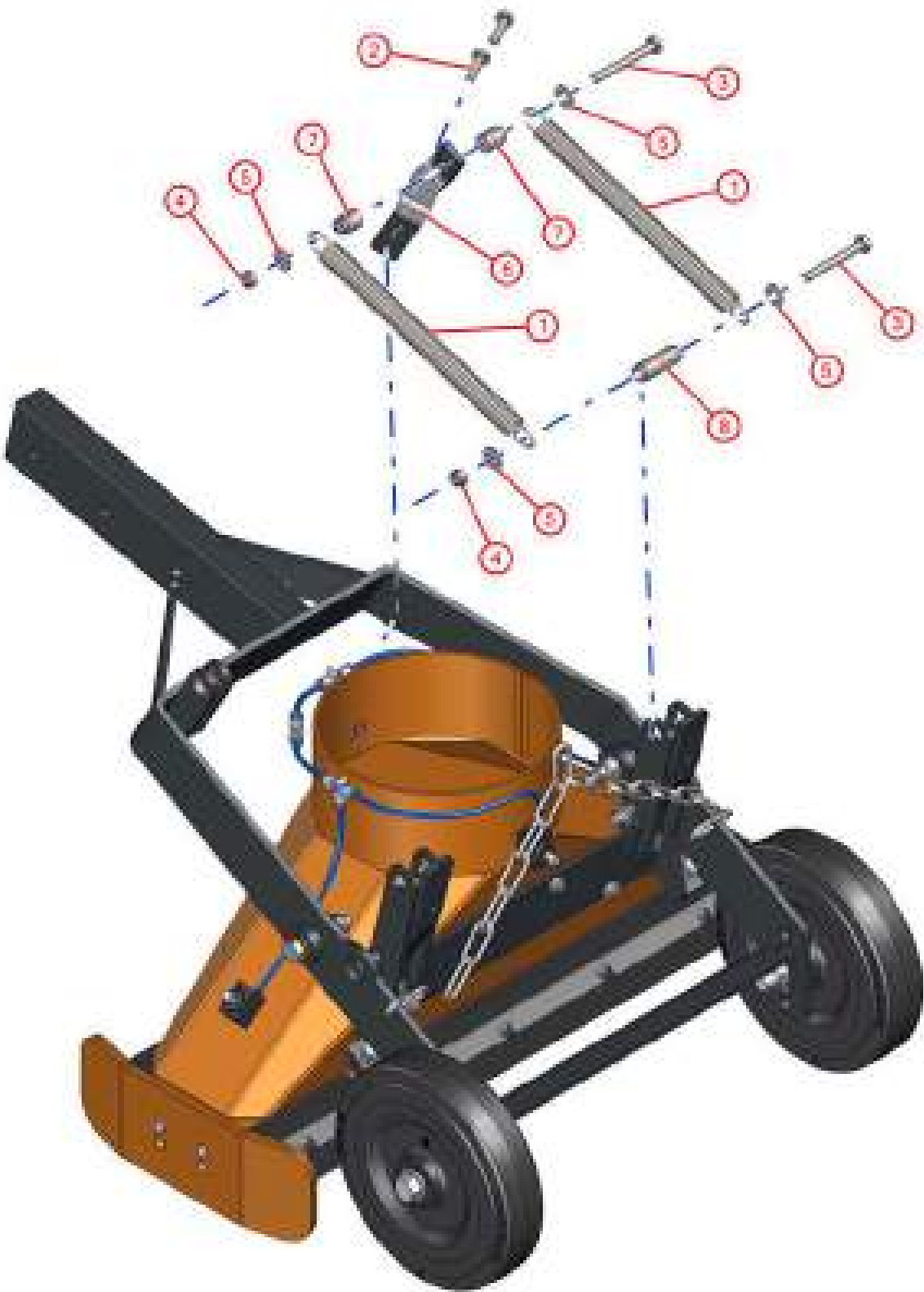
BOM ID	Part No.	Qty	Description
1	SCA000043	2	F. HEX BOLT M16 x 90
2	SCA011065	2	F. M16 T. NYLOC NUT
3	SCA011082	1	M20 NYLOC NUT
4	SCA011135	2	F. P/ WASHER M16 FORM C
5	SCA011422	1	F. HEX HT BOLT M20 X 110
6	SCA013053	1	LYNCH PIN
7	SCA045484	1	NOZZLE TOW HITCH
8	SCA045463	1	NOZZLE TOW PIN
9	SCA047128	1	NOZZLE FRAME LH - M65TX
10	SCA048835	1	BRKT HP NOZZLE BOOST BAR TAP

Suction nozzle - tilt ram - left hand



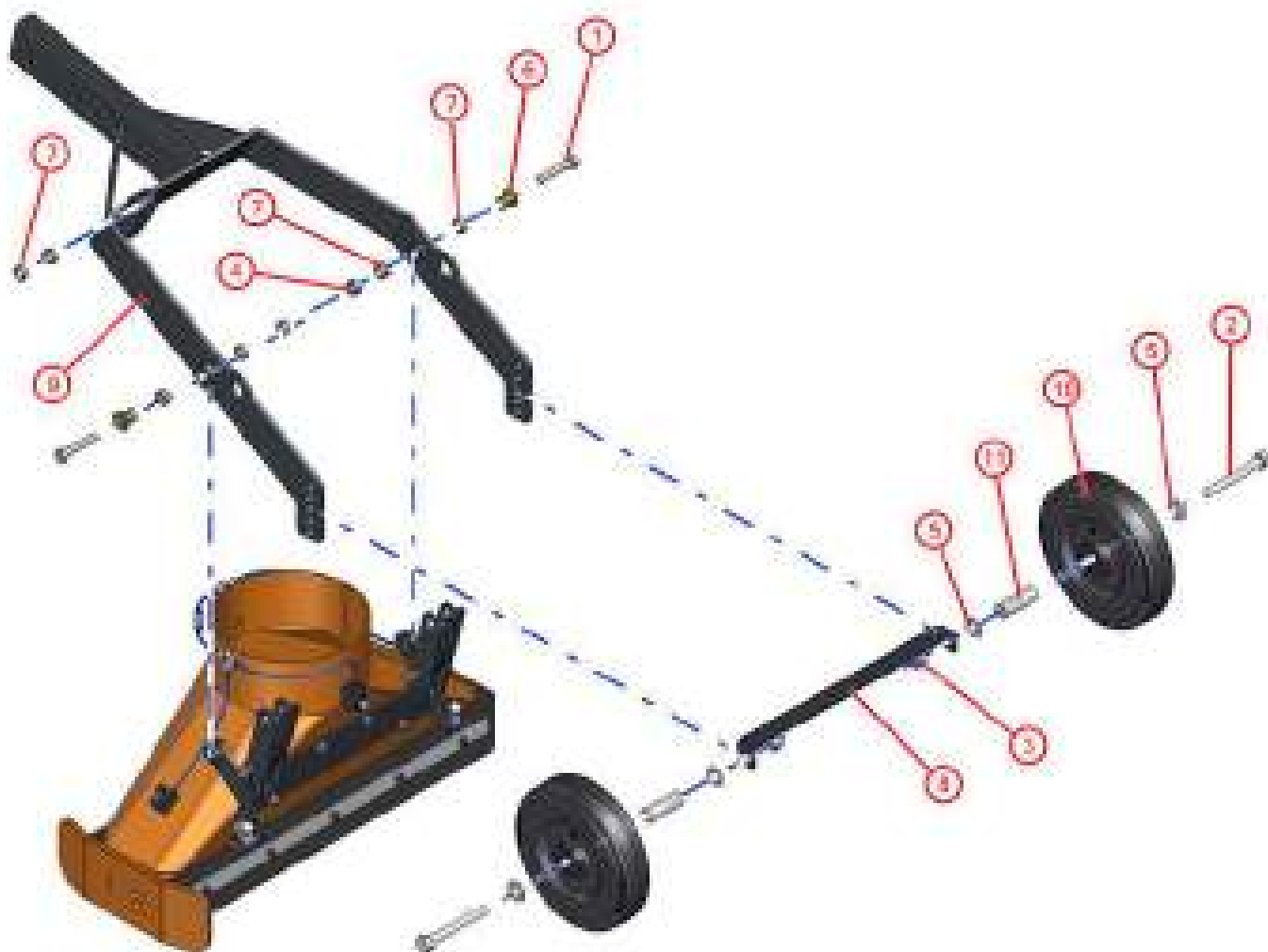
BOM ID	Part No.	Qty	Description
1	SCA041855	1	ASSY HYD GOBBLER RAM
2	SCA011102	2	F PWASHER M20 FORM C
3	SCA011122	2	F SPLIT PIN 3/16" x 1 1/2"
4	SCA011152	1	H DOWTY SEAL 1/4" BSP
5	SCA014473	1	BELLOWS RAM
6	SCA024682	2	BUSH 25 X 20 X 10
7	SCA027188	1	H RESTRICTOR 0.6MM 1/4" BSP
8	SCA041954	1	ASSY RAM NO 13 240/340
9	SCA046749	1	CLEVIS PIN 20 DIA 60 LG
10	SCA046750	1	CLEVIS PIN 20 DIA 50 LG

Suction nozzle - tilt return springs - left hand



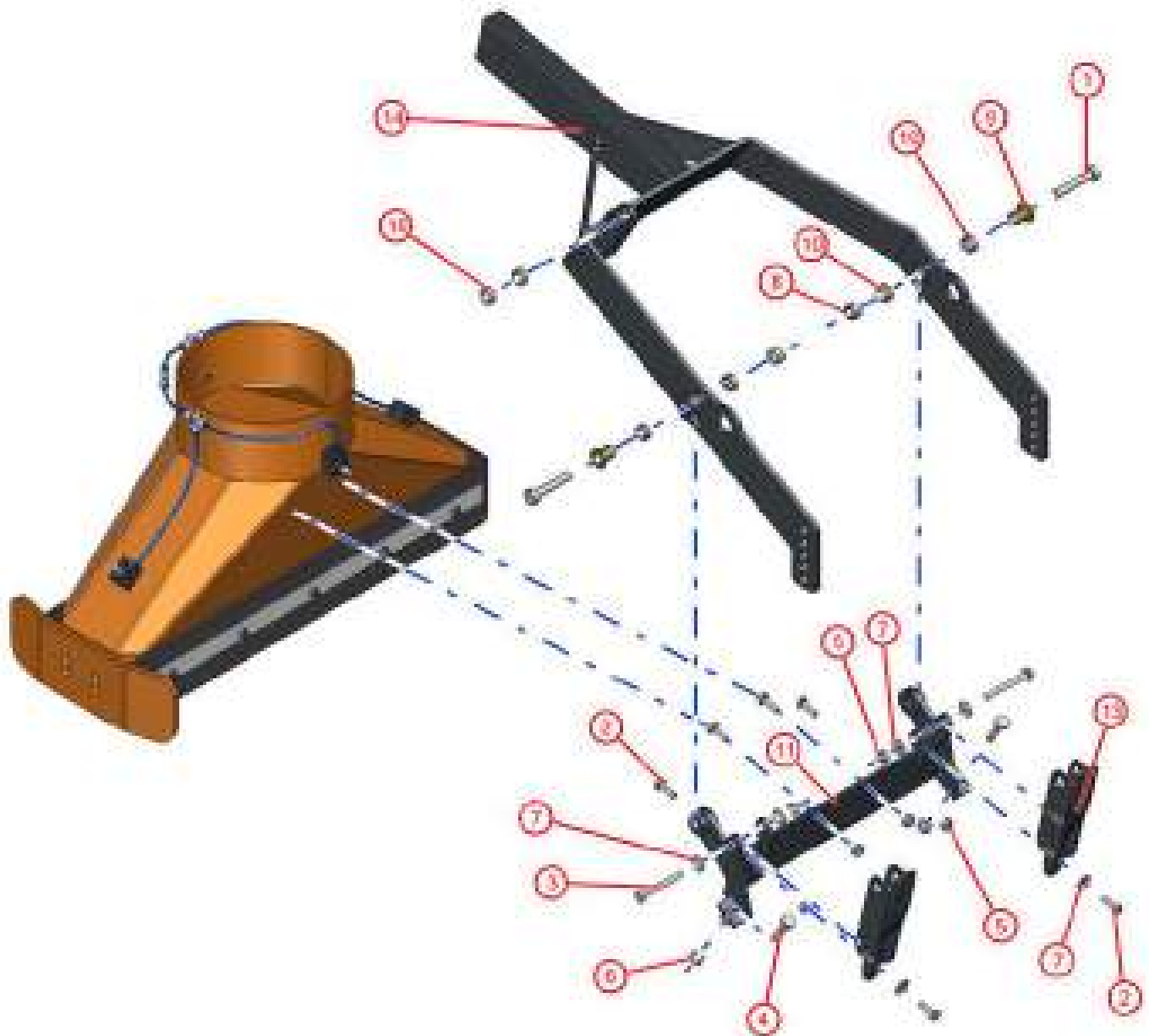
BOM ID	Part No.	Qty	Description
1	SCA010017	2	SPRING BUG
2	SCA011032	2	F. HEX HT SETSCREW M10 X 30
3	SCA011038	2	F. HEX HT BOLT M10 X 80
4	SCA011075	2	F. M10 T NYLOC NUT
5	SCA011084	4	F. PWASHER M10 FORM C
6	SCA047126	1	LH SUCTION NOZZLE SPRING BRKT
7	SCA047135	2	SPRING BOSS 10.5x23.6 STEPPED
8	SCA047136	1	SPRING BOSS 10.5x23.6 DOUBLE STEPPED

Suction nozzle - frame and wheels - left hand



BOM ID	Part No.	Qty	Description
1	SCA000351	2	F.HEX HT SETSCREW M14 X 70
2	SCA000581	2	F.HEX HT BOLT M16 x 2 x 120 8.8 SS
3	SCA011060	2	F.M16 T NYLOC NUT
4	SCA011127	2	F.M14 T NYLOC NUT
5	SCA011135	4	F.P/WASHER M16 FORM C
6	SCA021416	2	SLEEVE SUCTION NOZZLE
7	SCA024682	6	BUSH 25 X 20 X 10
8	SCA031833	1	NOZZLE AXLE ANGLE
9	SCA047128	1	NOZZLE FRAME LH - M15TX
10	SCA048505	2	NOZZLE WHEEL 250 DIA (GREASED)
11	SCA048506	2	SPACER 250D x 16.5ID - 70LG

Suction nozzle - frame and pivot - left hand

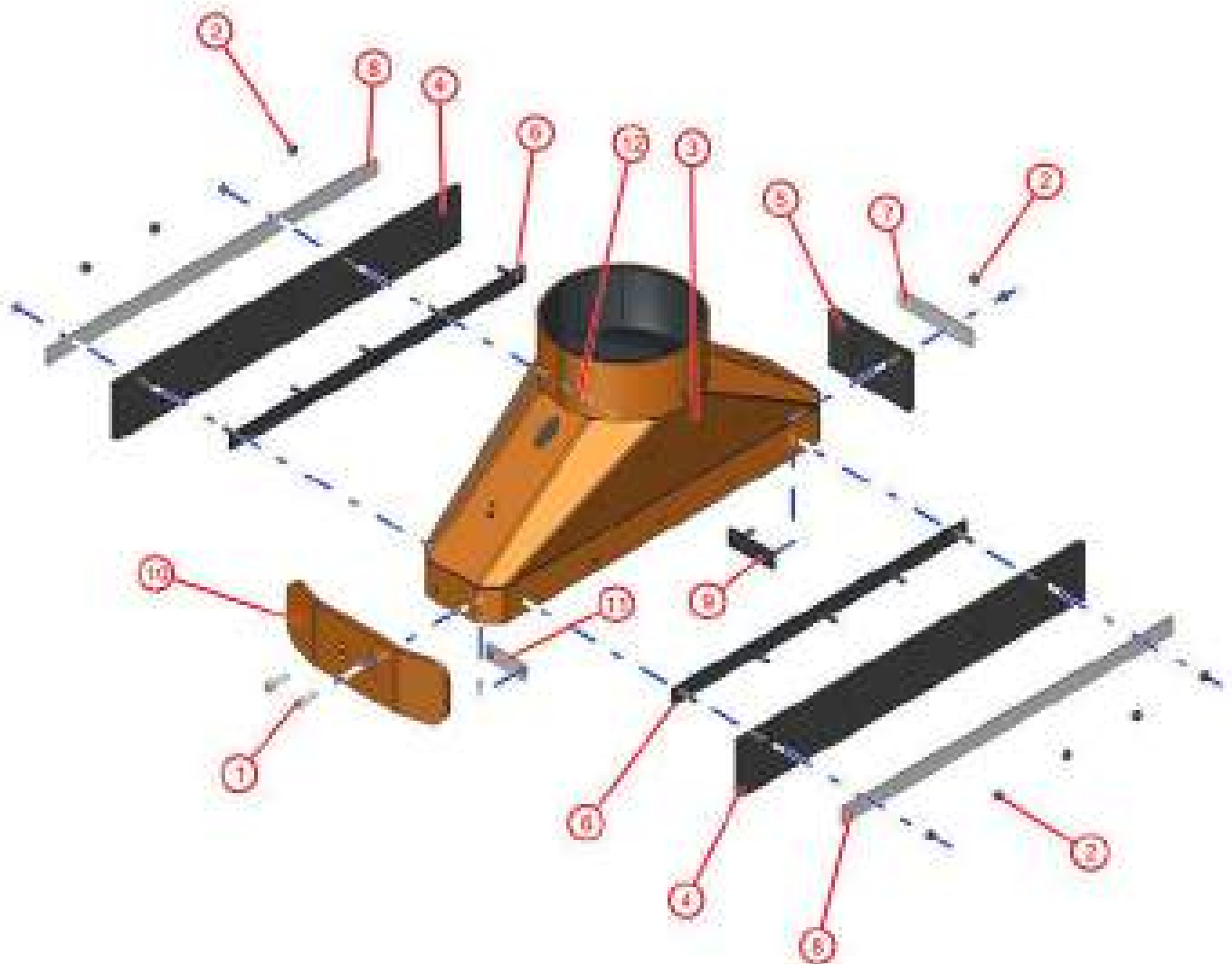


BOM ID	Part No.	Qty	Description
1	SCA000351	2	F.HEX HT SETSCREW M14 X 70
2	SCA011031	5	F.HEX HT SETSCREW M10 X 25
3	SCA011038	2	F.HEX HT BOLT M10 X 80
4	SCA011054	2	F.HEX HT SETSCREW M12 X 45
5	SCA011075	5	F.M10 T NYLOC NUT
6	SCA011076	2	F.HEX FULL NUT M12
7	SCA011094	5	F.WASHER M10 FORM C
8	SCA011127	2	F.M14 T NYLOC NUT
9	SCA021416	2	SLEEVE SUCTION NOZZLE
10	SCA024682	5	BUSH 25 X 20 X 10
11	SCA047114	1	NOZZLE PIVOT - M65TX
13	SCA047116	2	SPRING/RAM MTO BRKT NOZZLE
14	SCA047128	1	NOZZLE FRAME LH - M65TX

Suction nozzle - water jets - left hand

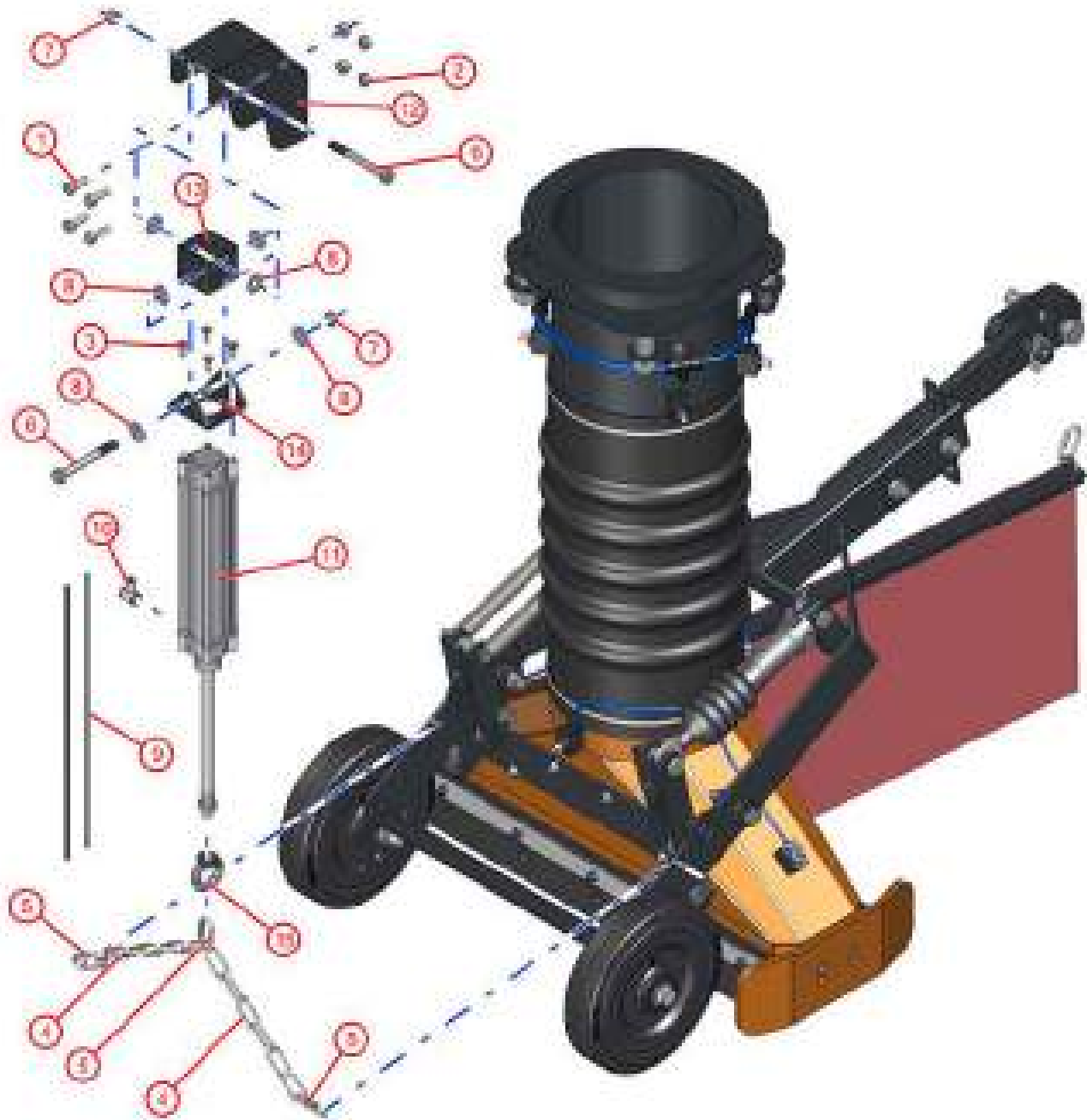


Suction nozzle - box and flaps - right hand



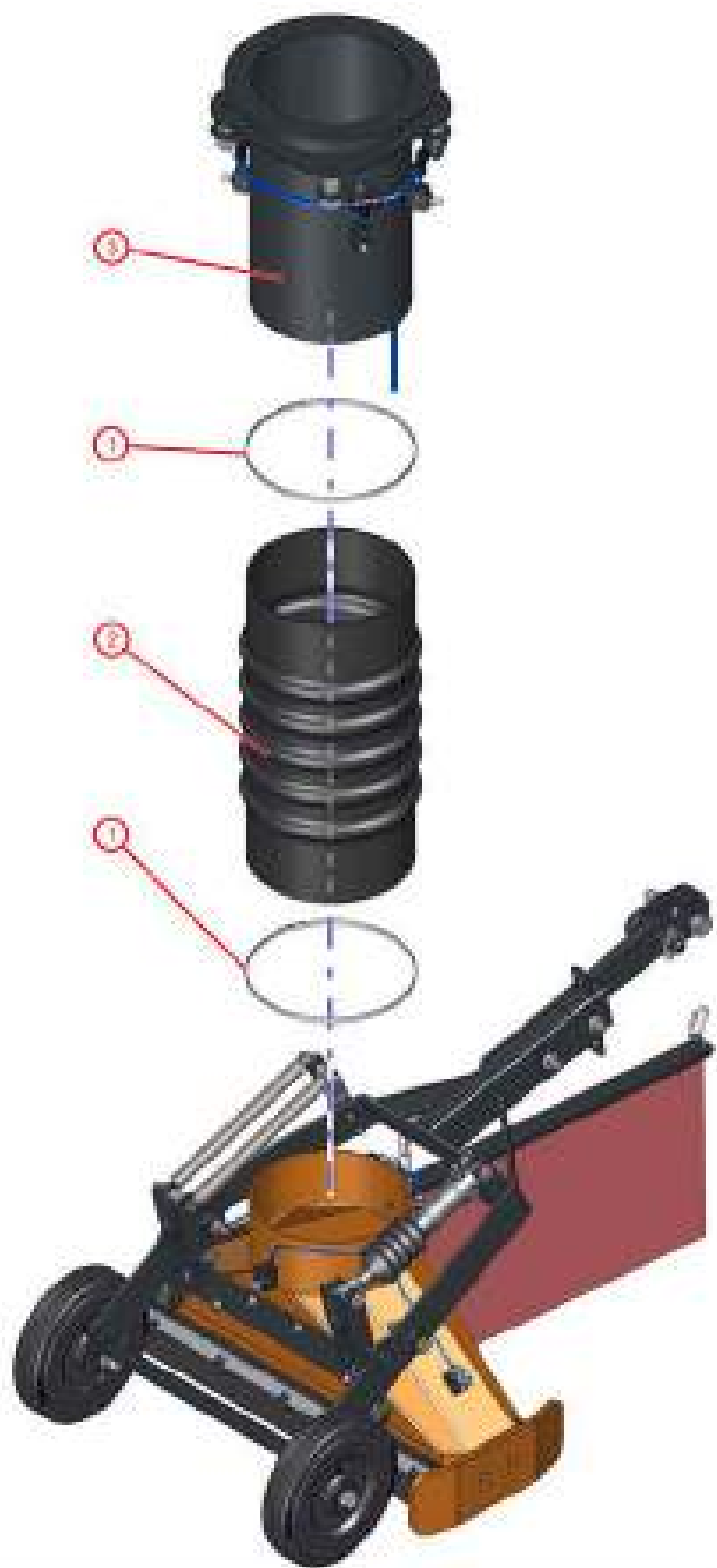
BOM ID	Part No.	Qty	Description
1	SCA000567	2	F. SKT CAP HD M8 x 1.25 x 30 8.8 SS
2	SCA011073	12	F.M8 T NYLOC NUT
3	SCA047107	1	SUCTION NOZZLE
4	SCA047108	2	FLAP (LONG)
5	SCA047109	1	FLAP (SHORT)
6	SCA047110	2	FLAP CLAMP (LONG)
7	SCA047111	1	FLAP CLAMP STRIP (SHORT)
8	SCA047112	2	FLAP CLAMP STRIP (LONG)
9	SCA047113	1	FLAP CLAMP (SHORT)
10	SCA047115	1	SKID PLATE
11	SCA047323	1	SKID PLATE CLAMP STRIP - M65TX
12	SCA047888	1	ASSY Suction NOZZLE PU LINED - M65TX

Suction nozzle - lift cylinder - right hand



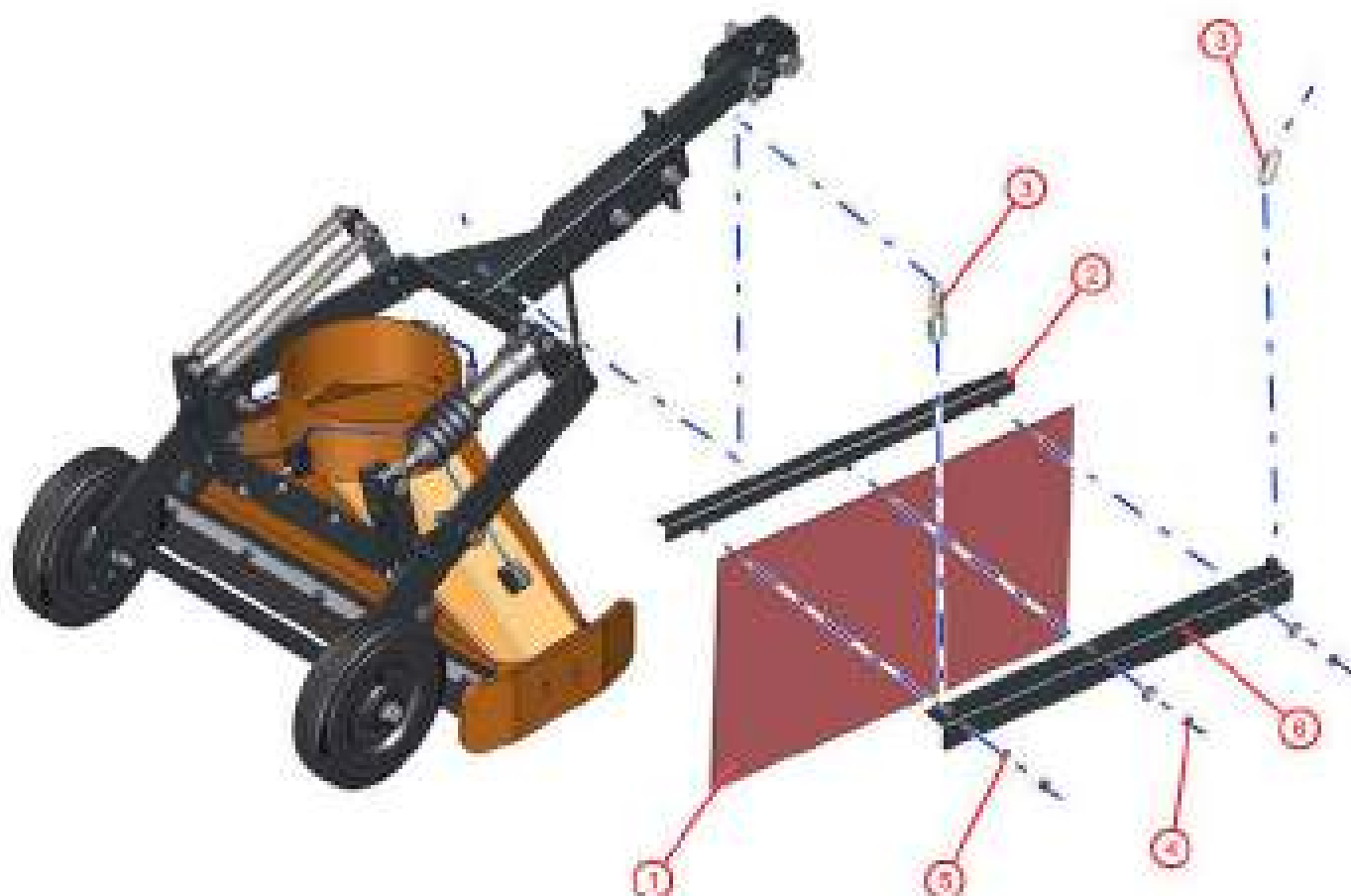
BOM ID	Part No.	Qty	Description
1	SCA011032	4	F. HEX HT SETSCREW M10 X 30
2	SCA011075	4	F. M10 T NYLOC NUT
3	SCA000003	4	F. M8 X 20 CSK SKT PLATED SCREW
4	SCA010525	13	CHAIN LARGE LINK
5	SCA010606	3	CARABINER
6	SCA011057	2	F. HEX BOLT M12 X 100
7	SCA011077	2	F. M12 T NYLOC NUT
8	SCA011086	6	F. PIWASHER M12 FORM C
9	SCA014572	2	P. 6MM OD X 1MM WT BLACK AIR PIPE
10	SCA021158	1	P. PNEUMATIC FLOW REGULATOR
11	SCA030772	1	P. PNEUMATIC CYLINDER 50 X 200
12	SCA030775	1	CYLINDER MOUNT BRKT NOZZLE LIFT ASSY
13	SCA030776	1	CYLINDER PIVOT BLOCK NOZZLE LIFT ASSY
14	SCA030777	1	CYLINDER PIVOT. NOZZLE LIFT ASSY
15	SCA032293	1	M16 X 1.5 RING NUT MAJOR VERTICAL LIFT

Suction nozzle - hose and spigot - right hand



BOM ID	Part No.	Qty	Description
1	SCA012933	2	JUBILEE CLIP No 10.50 (235 - 257)
2	SCA013028	1	HOSE SUCTION MAJOR
3	SCA049299	1	SUCTION SPIGOT 410 LG (SPRUNG)

Suction nozzle - skirt - right hand



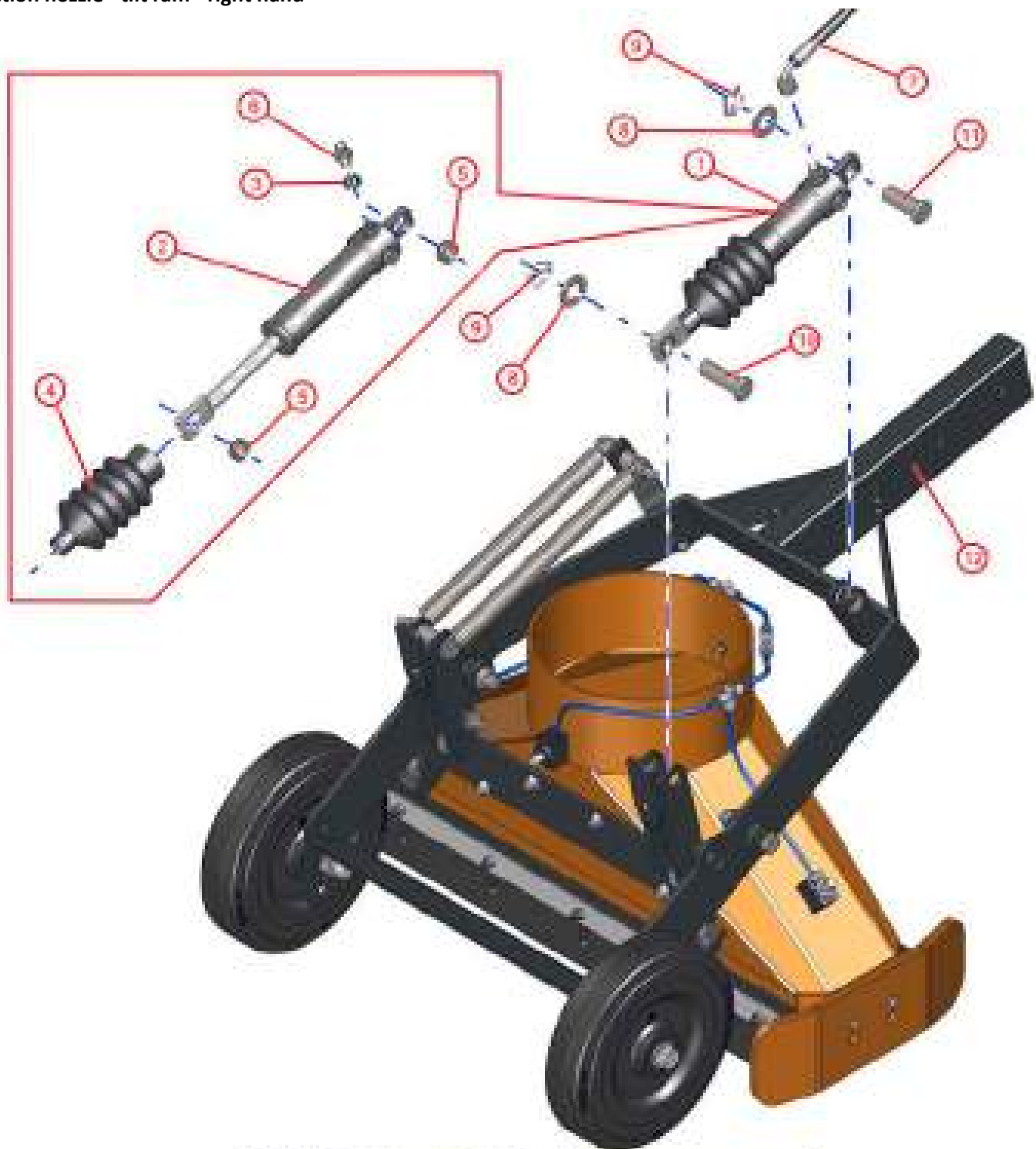
BOM ID	Part No.	Qty	Description
1	SCA010247	1	SIDE BRUSH SKIRT 3-PITCH HEAVY DUTY
2	SCA010275	1	SKIRT CLAMP
3	SCA010606	3	CARABINER
4	SCA011073	3	F.M8 T NYLOC NUT
5	SCA011052	3	F.PWASHER M8 FORM C
6	SCA013145	1	SKIRT ANGLE

Suction nozzle - tow point - right hand



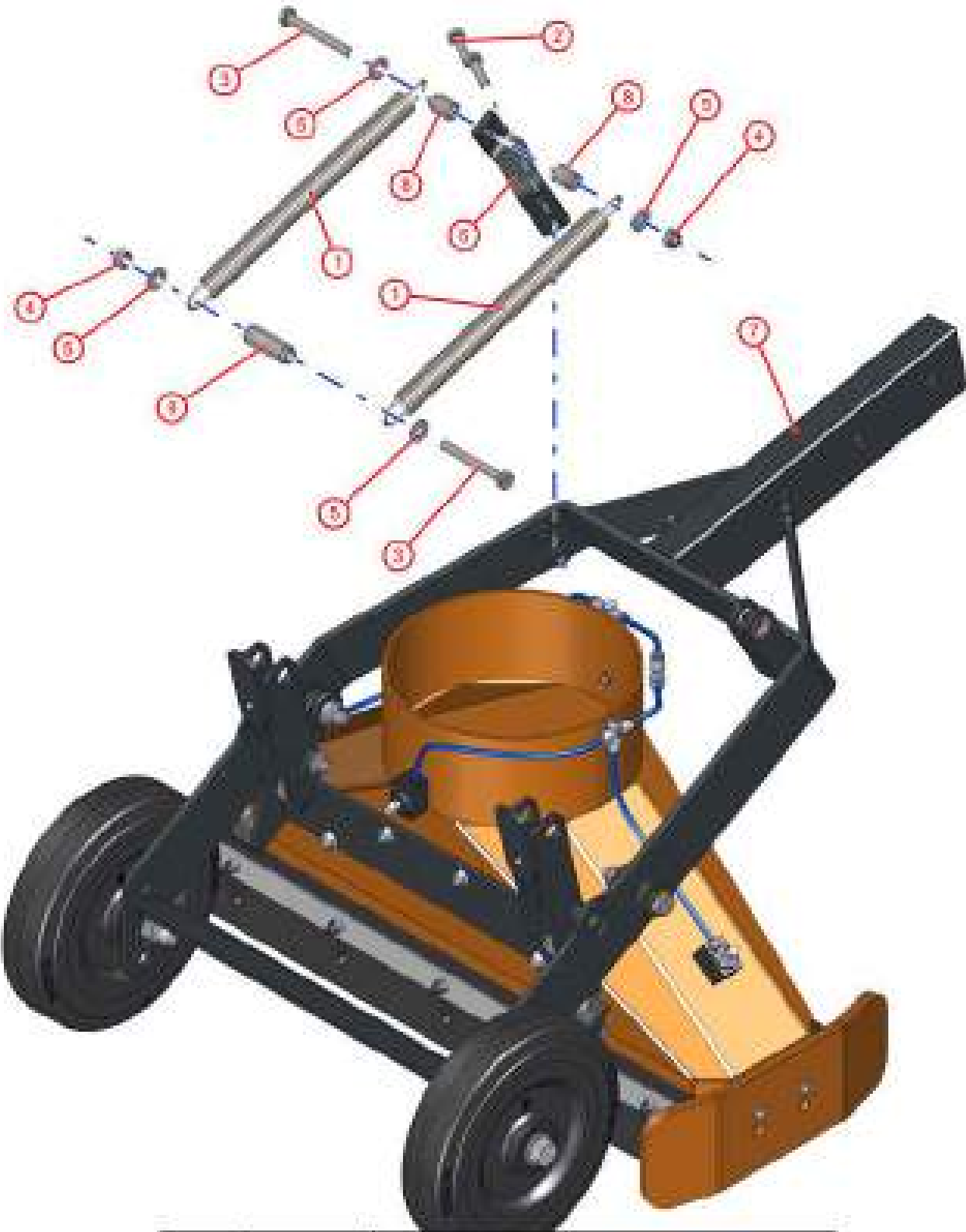
BOM ID	Part No.	Qty	Description
1	SCA000043	2	F.HEX BOLT M16 x 90
2	SCA011069	2	F.M16 T. NYLOC NUT
3	SCA011082	1	M20 NYLOC NUT
4	SCA011135	2	F.P. WASHER M16 FORM C
5	SCA011427	1	F.HEX HT. BOLT M20 X 110
6	SCA013053	1	LYNCH PIN
7	SCA045464	1	NOZZLE TOW HITCH
8	SCA045465	1	NOZZLE TOW PIN
9	SCA047129	1	NOZZLE FRAME RH - M05TX
10	SCA049835	1	BRKT HP NOZZLE BOOST BAR TAP

Suction nozzle - tilt ram - right hand



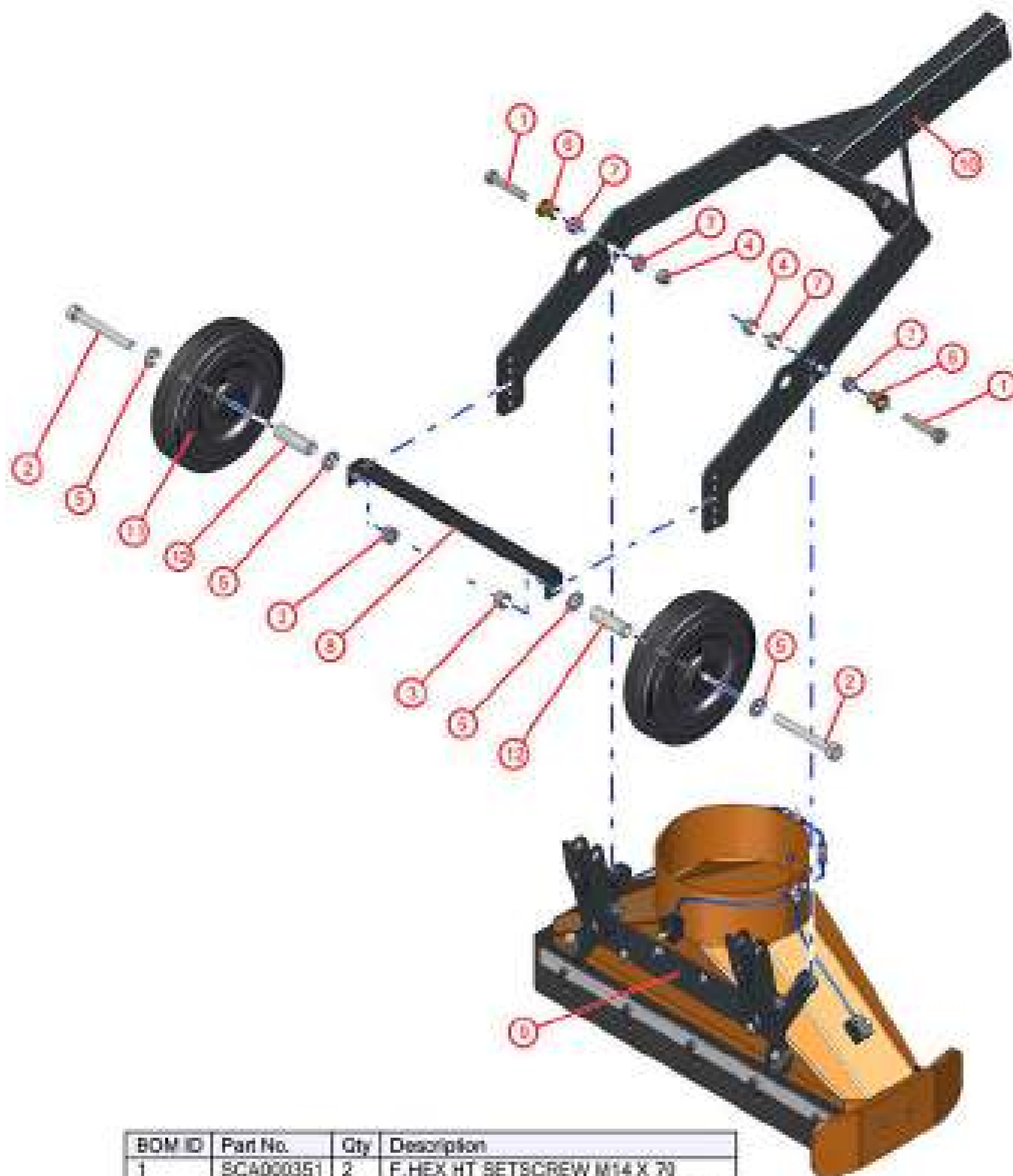
BOM ID	Part No.	Qty	Description
1	SCA041855	1	ASSY HYD GOBBLER RAM
2	SCA041954	1	HYD GOBBLER RAM
3	SCA011152	1	H.DOWTY SEAL 1/4" BSP
4	SCA014473	1	BELLOWS RAM
5	SCA024682	2	BUSH 25 X 20 X 10
6	SCA027188	1	H.RESTRICTOR 0.6MM 1/4" BSP
7	SCA001101	1	HOSE 1/4"X .1125 LG (ST90)
8	SCA011102	2	F.P.WASHER M20 FORM C
9	SCA011122	2	F.SPLIT PIN 3/16" x 1 1/2"
10	SCA046749	1	CLEVIS PIN 20 DIA 60 LG
11	SCA046750	1	CLEVIS PIN 20 DIA 50 LG
12	SCA047129	1	NOZZLE FRAME RH - M03TX

Suction nozzle - tilt return springs - right hand



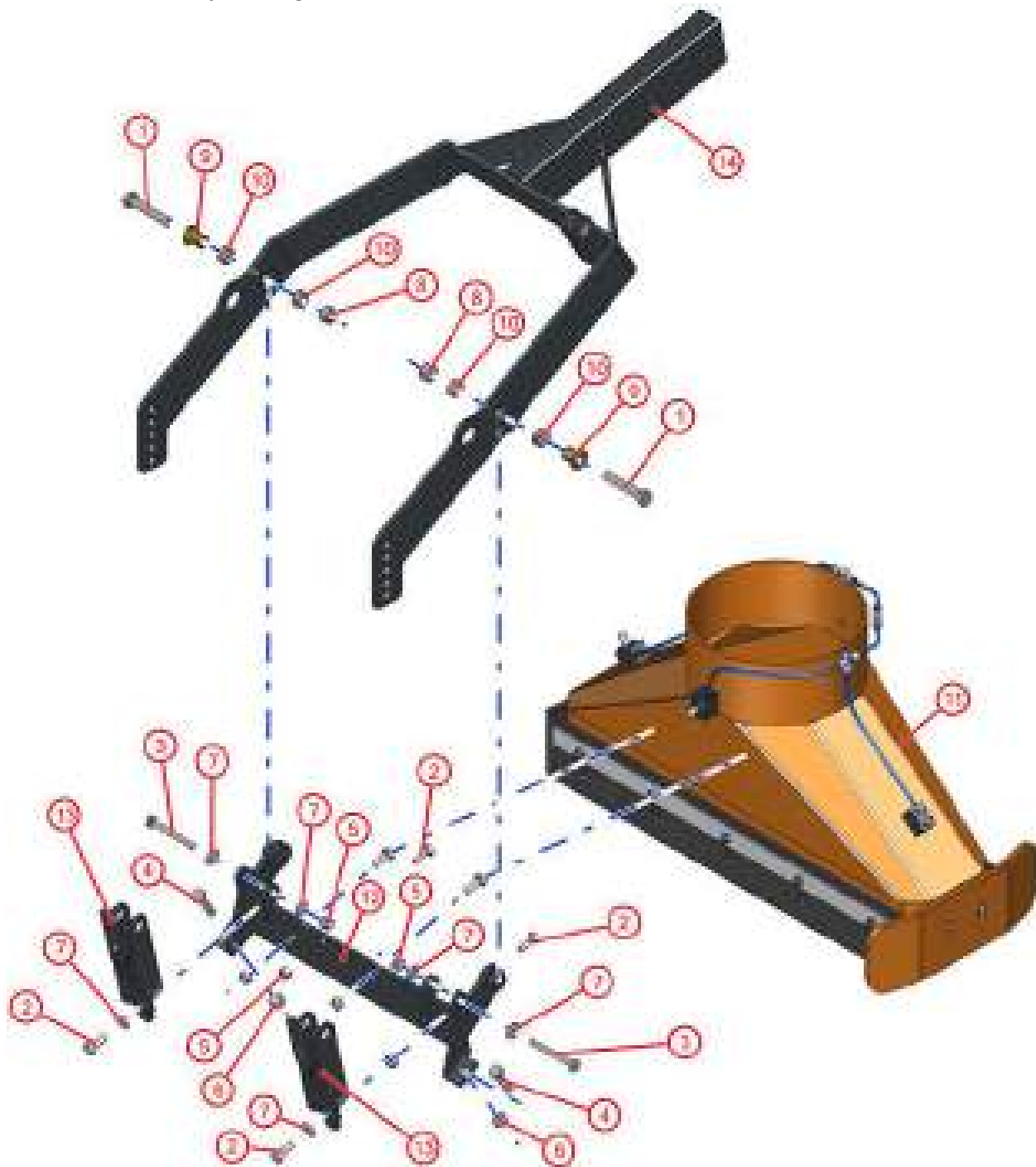
BOM ID	Part No.	Qty	Description
1	SCA010017	2	SPRING BLG
2	SCA011032	2	F.HEX HT SETSCREW M10 X 30
3	SCA011038	2	F.HEX HT BOLT M10 X 80
4	SCA011075	2	F.M10 T NYLOC NUT
5	SCA011084	4	F.WASHER M10 FORM C
6	SCA047127	1	RH SUCTION NOZZLE SPRING BRKT
7	SCA047129	1	NOZZLE FRAME RH - M65TX
8	SCA047136	2	SPRING BOSS 10.5x23.5 STEPPED
9	SCA047136	1	SPRING BOSS 10.5x55 DOUBLE STEPPED

Suction nozzle - frame and wheels - right hand



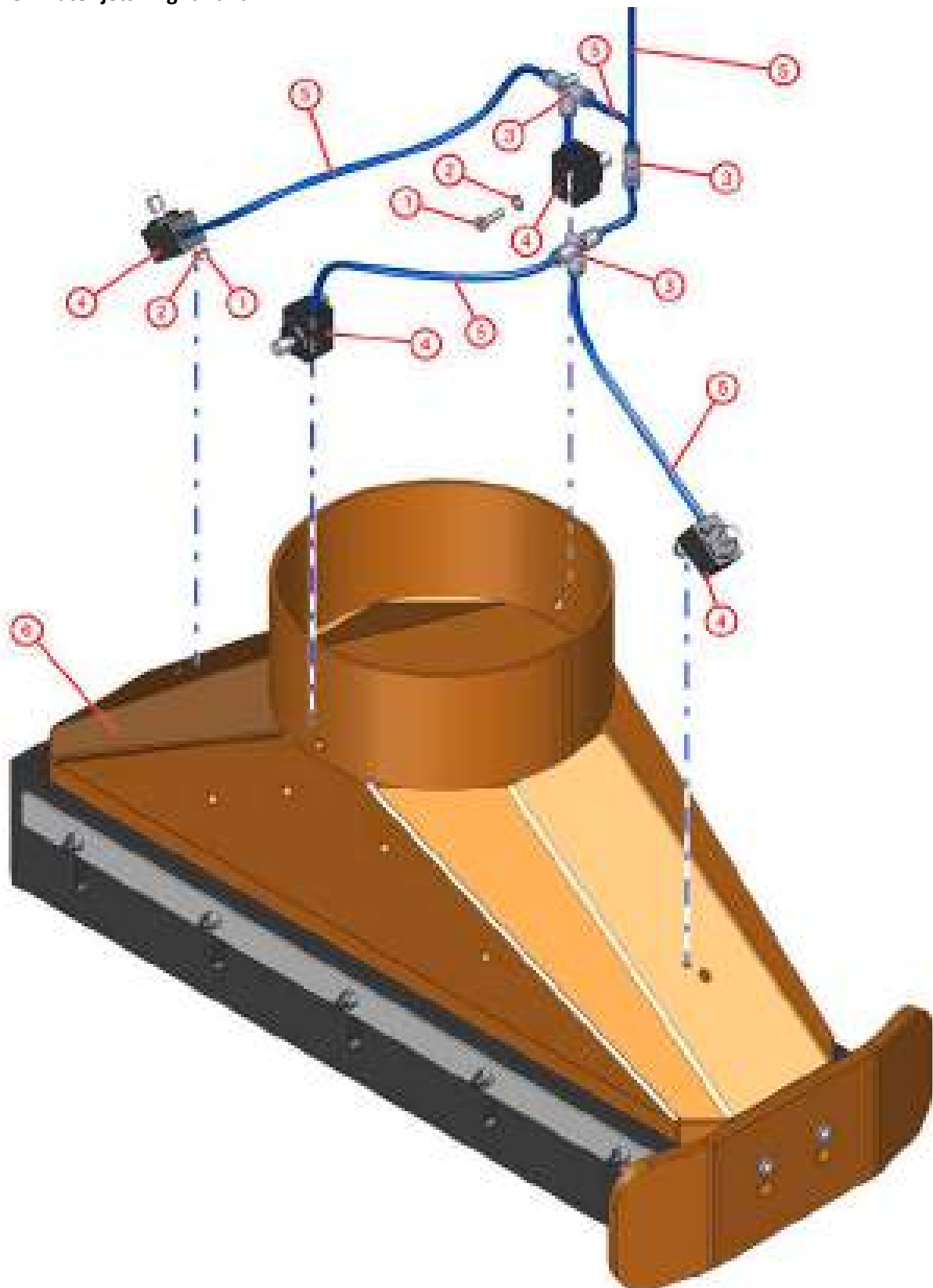
BOM ID	Part No.	Qty	Description
1	SCA000351	2	F, HEX HT SETSCREW M14 X 70
2	SCA000581	2	F, HEX HT BOLT M16 x 1 x 120 8.8 SS
3	SCA011060	2	F, M16 T NYLOC NUT
4	SCA011127	2	F, M14 T NYLOC NUT
5	SCA011135	4	F, FLWASHER M16 FORM C
6	SCA021416	2	SLEEVE SUCTION NOZZLE
7	SCA024602	4	BUSH 25 X 20 X 10
8	SCA031833	1	NOZZLE AXLE ANGLE
9	SCA047114	1	NOZZLE PIVOT - M85TX
10	SCA047129	1	NOZZLE FRAME RH - M85TX
11	SCA049505	2	NOZZLE WHEEL 250 DIA (GREASED)
12	SCA049508	2	SPACER 250D x 18.5ID - 70LC

Suction nozzle - frame and pivot - right hand



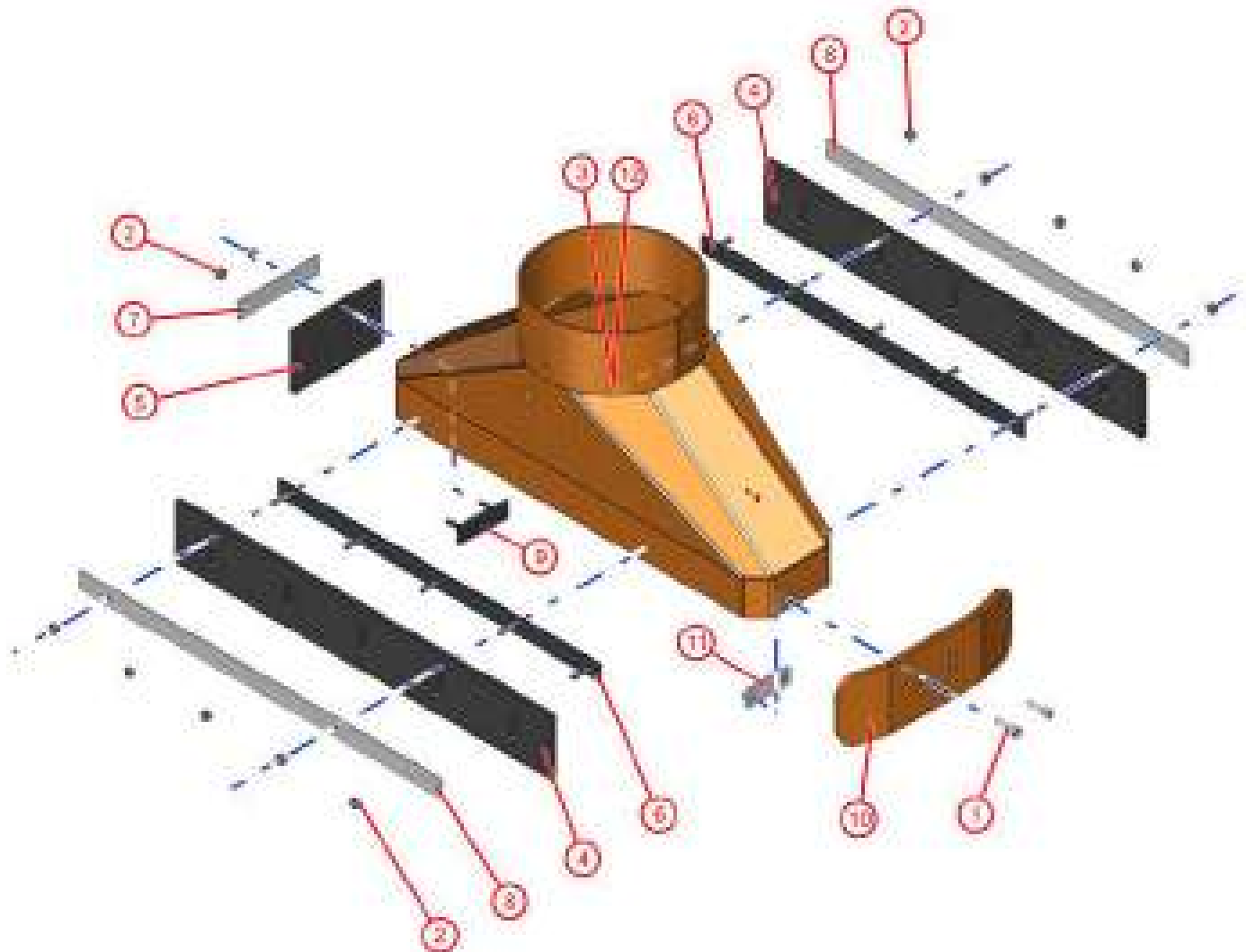
BOM ID	Part No.	Qty	Description
1	SCA000351	2	F.HEX HT SETSCREW M14 X 70
2	SCA011031	6	F.HEX HT SETSCREW M10 X 25
3	SCA011038	2	F.HEX HT BOLT M10 X 60
4	SCA011054	2	F.HEX HT SETSCREW M12 X 45
5	SCA011075	6	F.M10 T NYLOC NUT
6	SCA011076	2	F.HEX FULL NUT M12
7	SCA011094	6	F.FWASHER M10 FORM C
8	SCA011127	2	F.M14 T NYLOC NUT
9	SCA021416	2	SLEEVE SUCTION NOZZLE
10	SCA024662	4	BUSH 25 X 20 X 10
11	SCA047107	1	SUCTION NOZZLE
12	SCA047114	1	NOZZLE PIVOT - M55TX
13	SCA047116	2	SPRINGRAM MTG BRKT NOZZLE
14	SCA047129	1	NOZZLE FRAME RH - M55TX

Suction nozzle - water jets - right hand



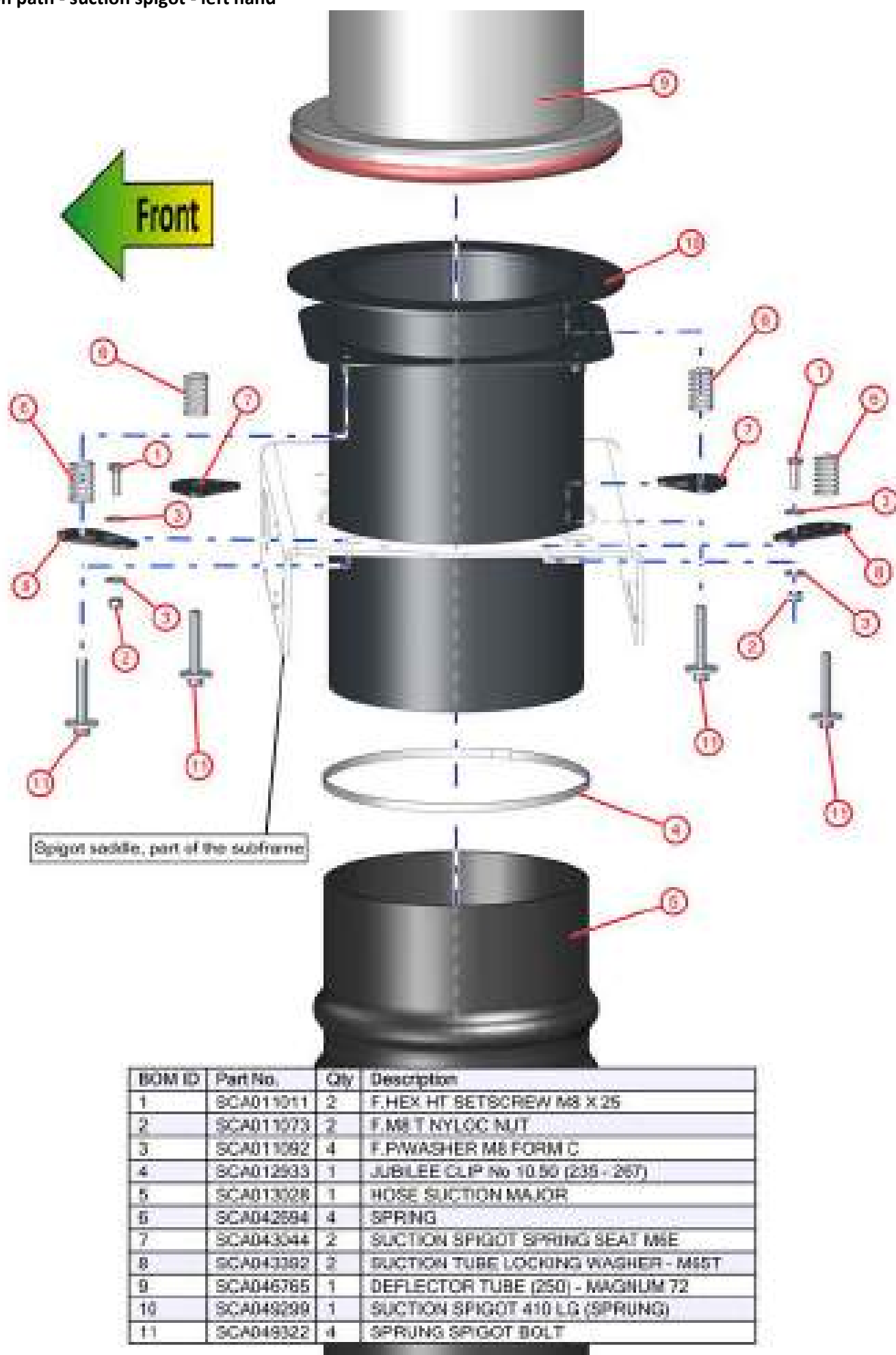
BCM ID	Part No.	Qty	Description
1	SCA011067	4	F. HEX. HT SETSCREW M8 X 20
2	SCA011091	4	F. SPRING WASHER M6 RECT SECT. SCOL
3	SCA024647	3	P.5mm TEE GREY
4	SCA034342	4	LP WATER NOZZLE
5	SCA035733	5	P.6 DIA BLUE FLEXIBLE NYLON TUBING
6	SCA047107	1	SUCTION NOZZLE

Suction nozzle - box and flaps - right hand

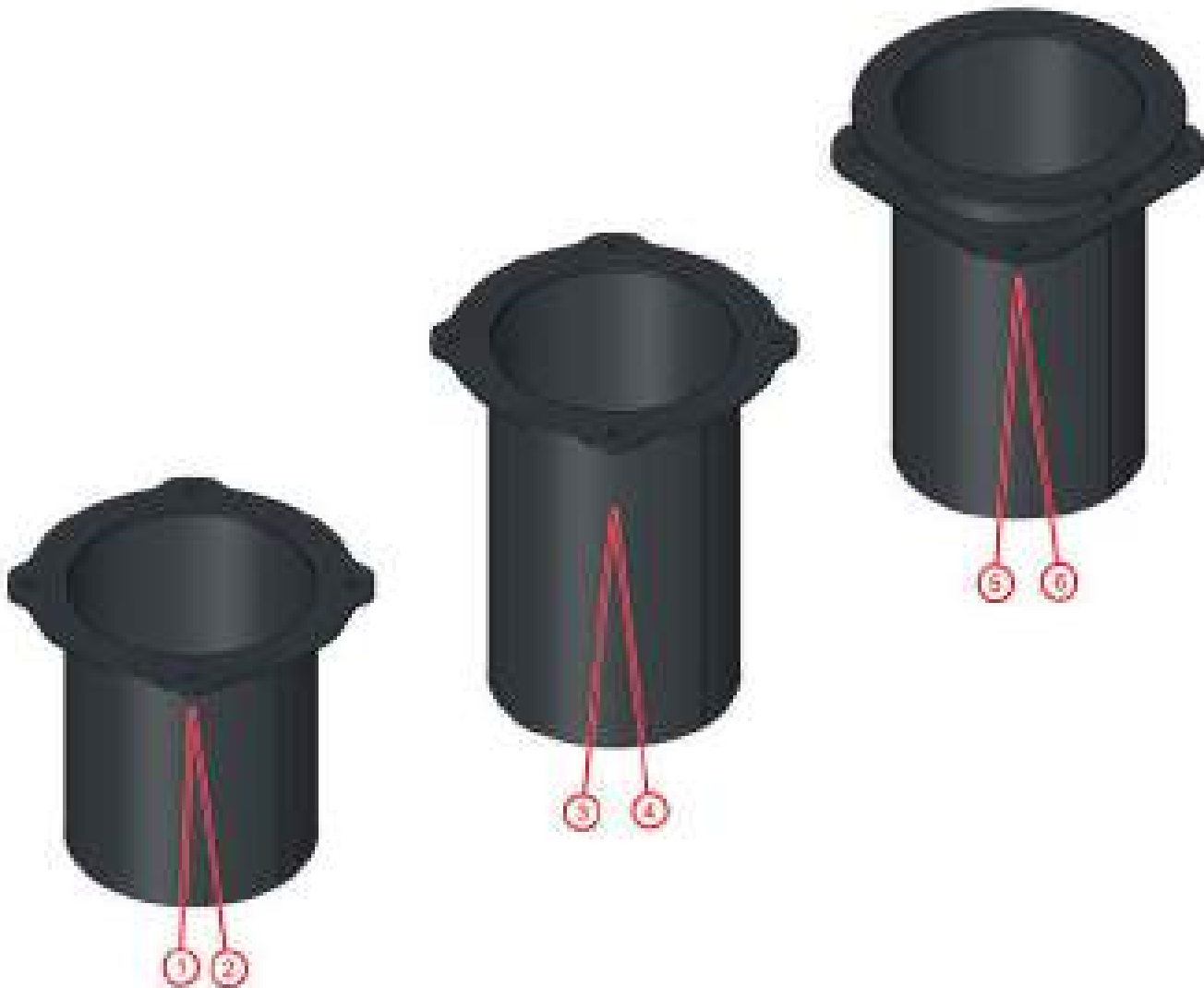


BOM ID	Part No.	Qty	Description
1	SCA006667	2	F. SKT CAP HD M8 x 1.25 x 30 8.8 SS
2	SCA011073	12	F.M.B.T NYLOC NUT
3	SCA047107	1	SUCTION NOZZLE
4	SCA047108	2	FLAP (LONG)
5	SCA047109	1	FLAP (SHORT)
6	SCA047110	2	FLAP CLAMP (LONG)
7	SCA047111	1	FLAP CLAMP STRIP (SHORT)
8	SCA047112	2	FLAP CLAMP STRIP (LONG)
9	SCA047113	1	FLAP CLAMP (SHORT)
10	SCA047115	1	SKID PLATE
11	SCA047323	1	SKID PLATE CLAMP STRIP - M65TX
12	SCA047068	1	ASSY: SUCTION NOZZLE PU LINED - M65TX

Suction path - suction spigot - left hand

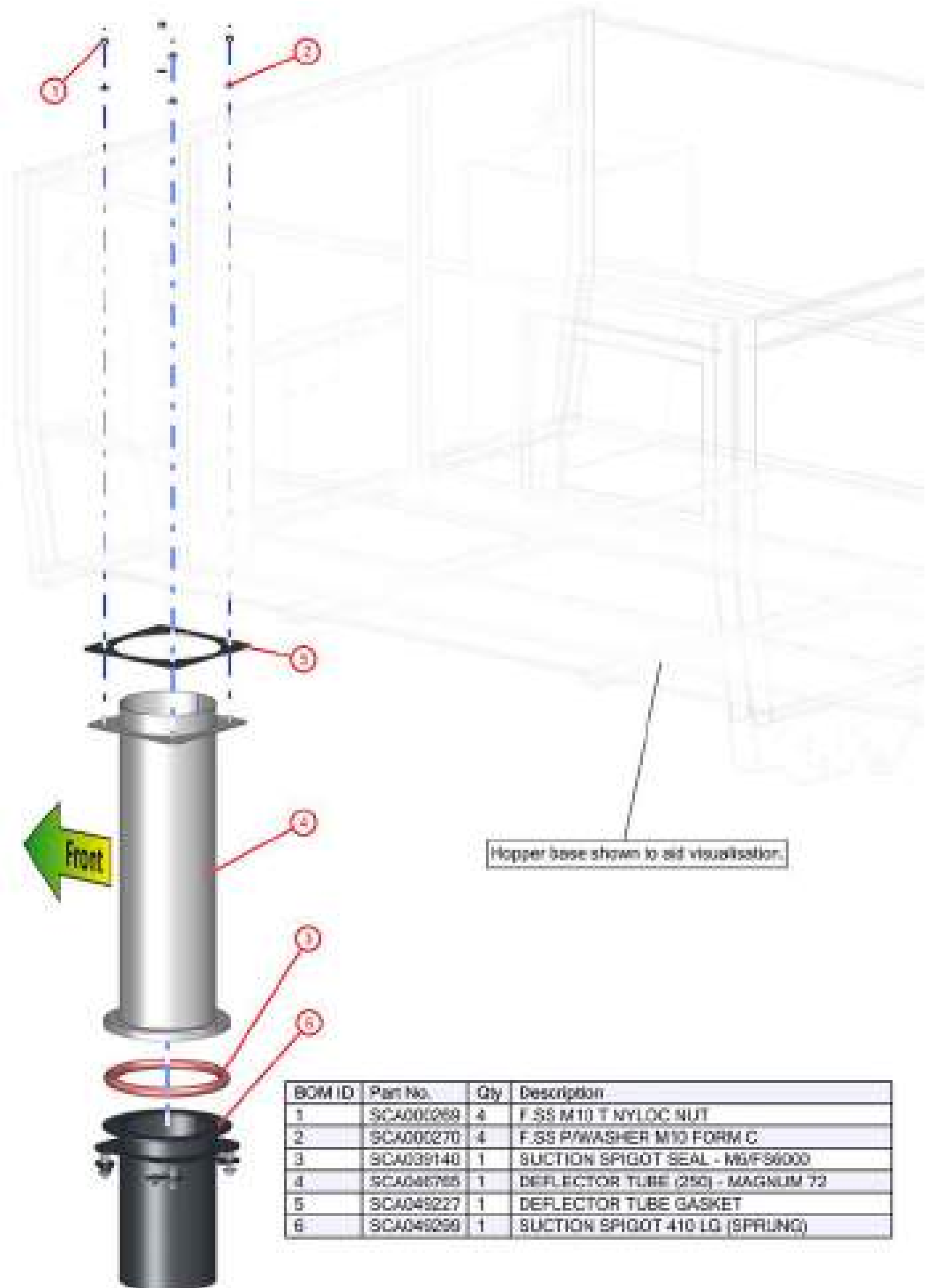


Suction path - suction spigots

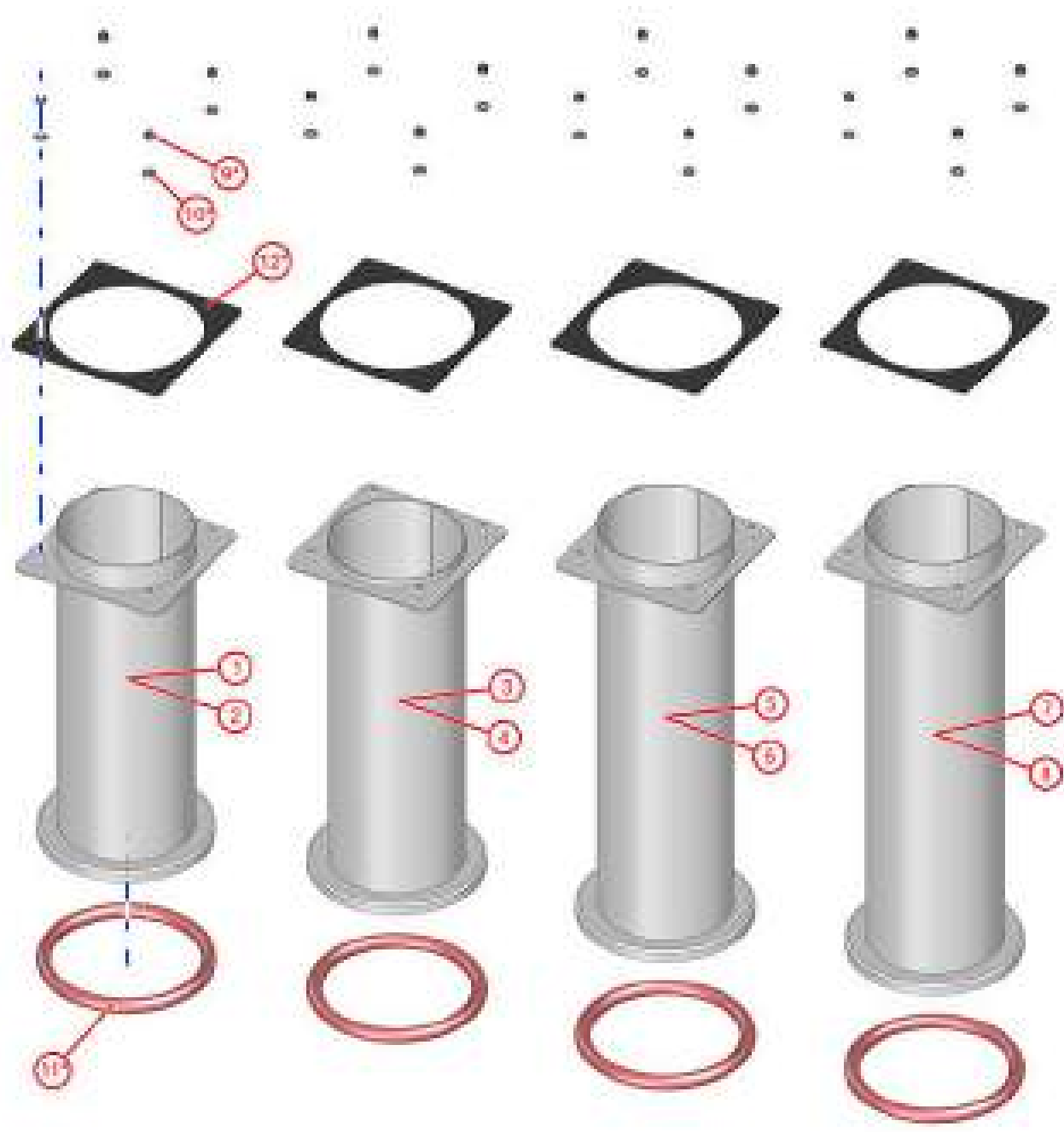


BCM ID	Part No.	Qty	Description
1	SCA047156	1	SUCTION SPIGOT 300 LG (SPRUNG) PU
2	SCA049296	1	SUCTION SPIGOT 300 LG (SPRUNG)
3	SCA049290	1	SUCTION SPIGOT 405LG (SPRUNG) PU
4	SCA049359	1	SUCTION SPIGOT 405 LG (SPRUNG)
5	SCA049360	1	SUCTION SPIGOT 410 LG (SPRUNG) PU
6	SCA049361	1	SUCTION SPIGOT 410 LG (SPRUNG)

Suction path - deflector tube - left hand

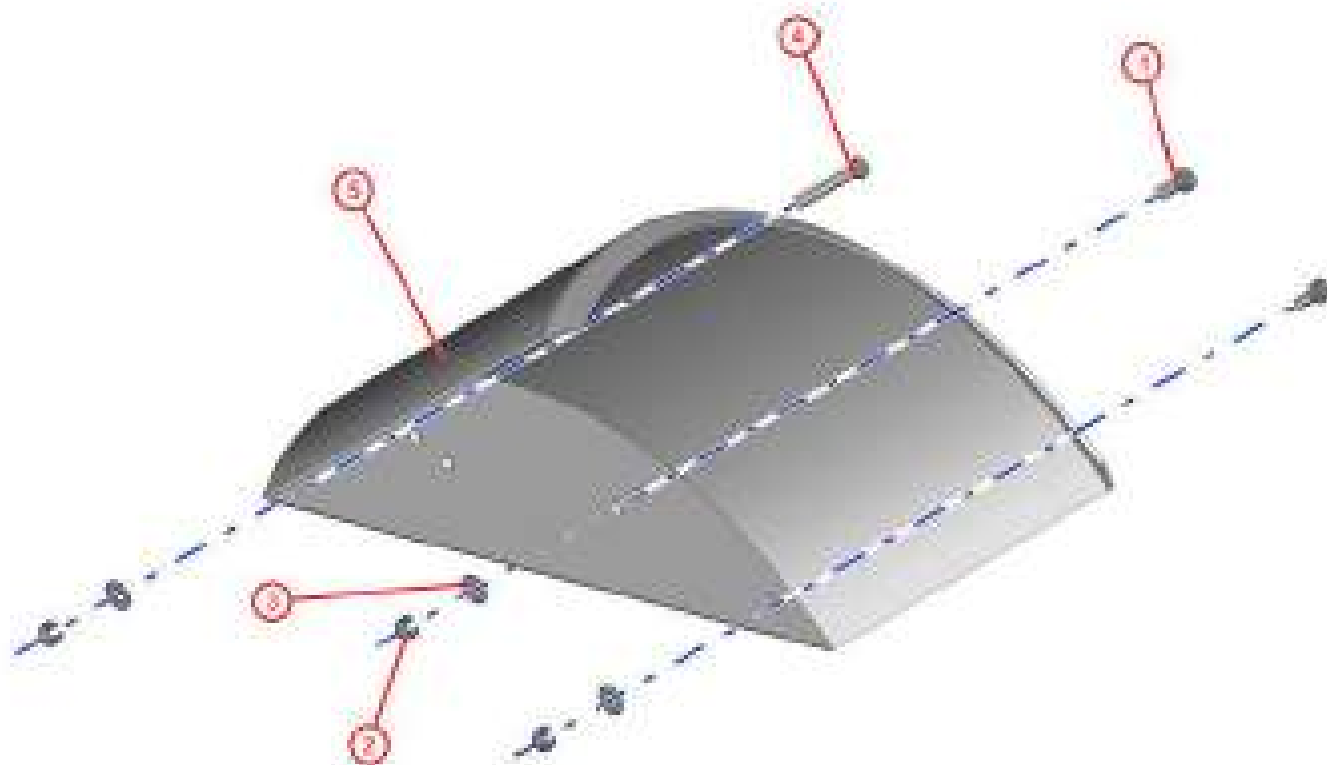


Suction path - deflector tubes



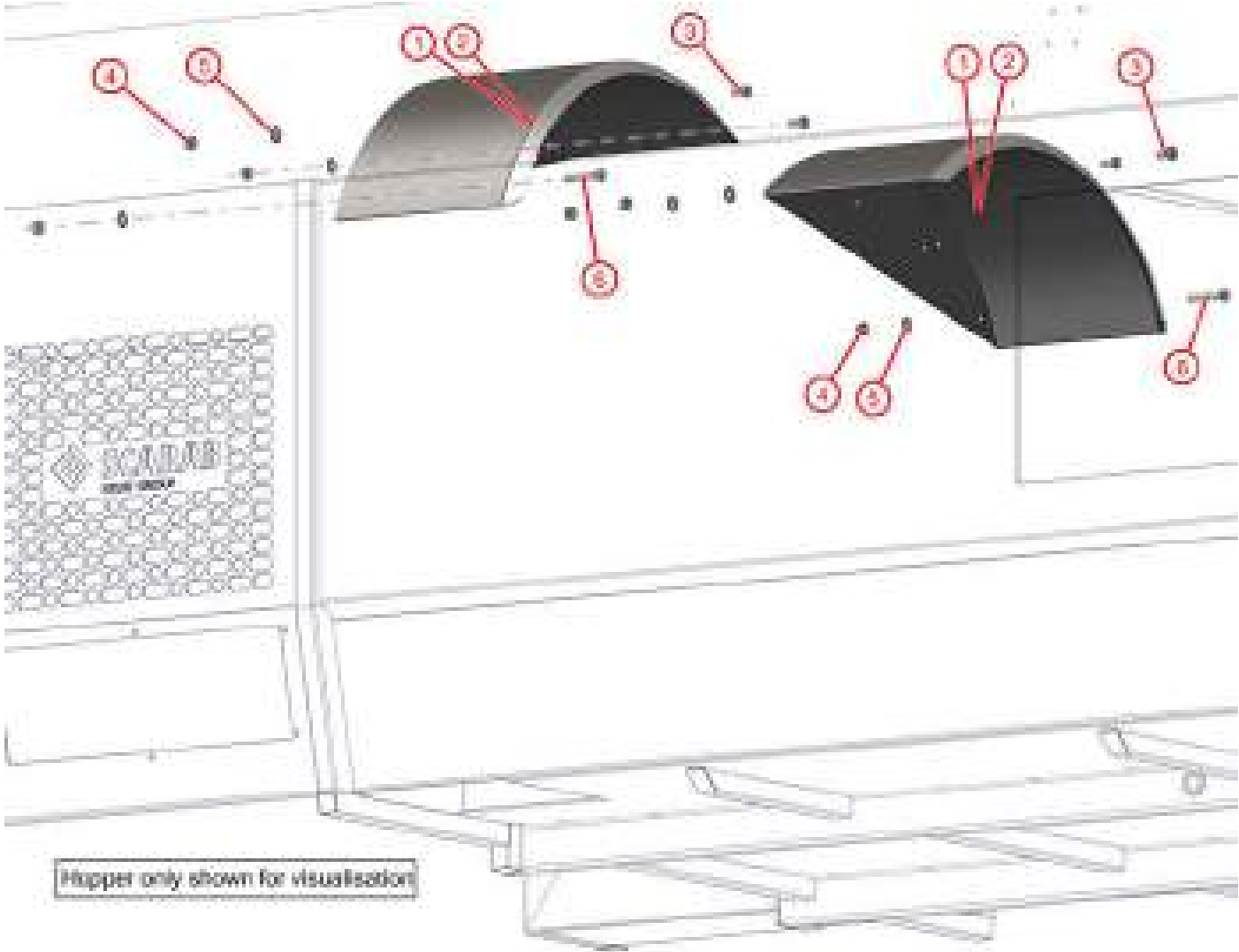
BOM ID	Part No.	Qty	Description
1	SCA049351	1	DEFLECTOR TUBE (250) PU - MERLIN 55
2	SCA049352	1	DEFLECTOR TUBE (250) - MERLIN 55
3	SCA049353	1	DEFLECTOR TUBE (250) PU - MERMIST
4	SCA049354	1	DEFLECTOR TUBE (250) - MERMIST
5	SCA04765	1	DEFLECTOR TUBE (250) PU - MAGNUM 72
6	SCA047155	1	DEFLECTOR TUBE (250) - MAGNUM 72
7	SCA047464	1	DEFLECTOR TUBE (250) PU - MAGNUM 82
8	SCA049296	1	DEFLECTOR TUBE (250) - MAGNUM 82
9*	SCA000369	4	F.SS M10 T NYLOC NUT
10*	SCA000270	4	F.SS PWASHER M10 FORM C
11*	SCA039140	1	SUCTION SPIGOT SEAL - M5/FSG000
12*	SCA049227	1	DEFLECTOR TUBE GASKET
* = Per deflector tube			

Suction path - deflector - left hand



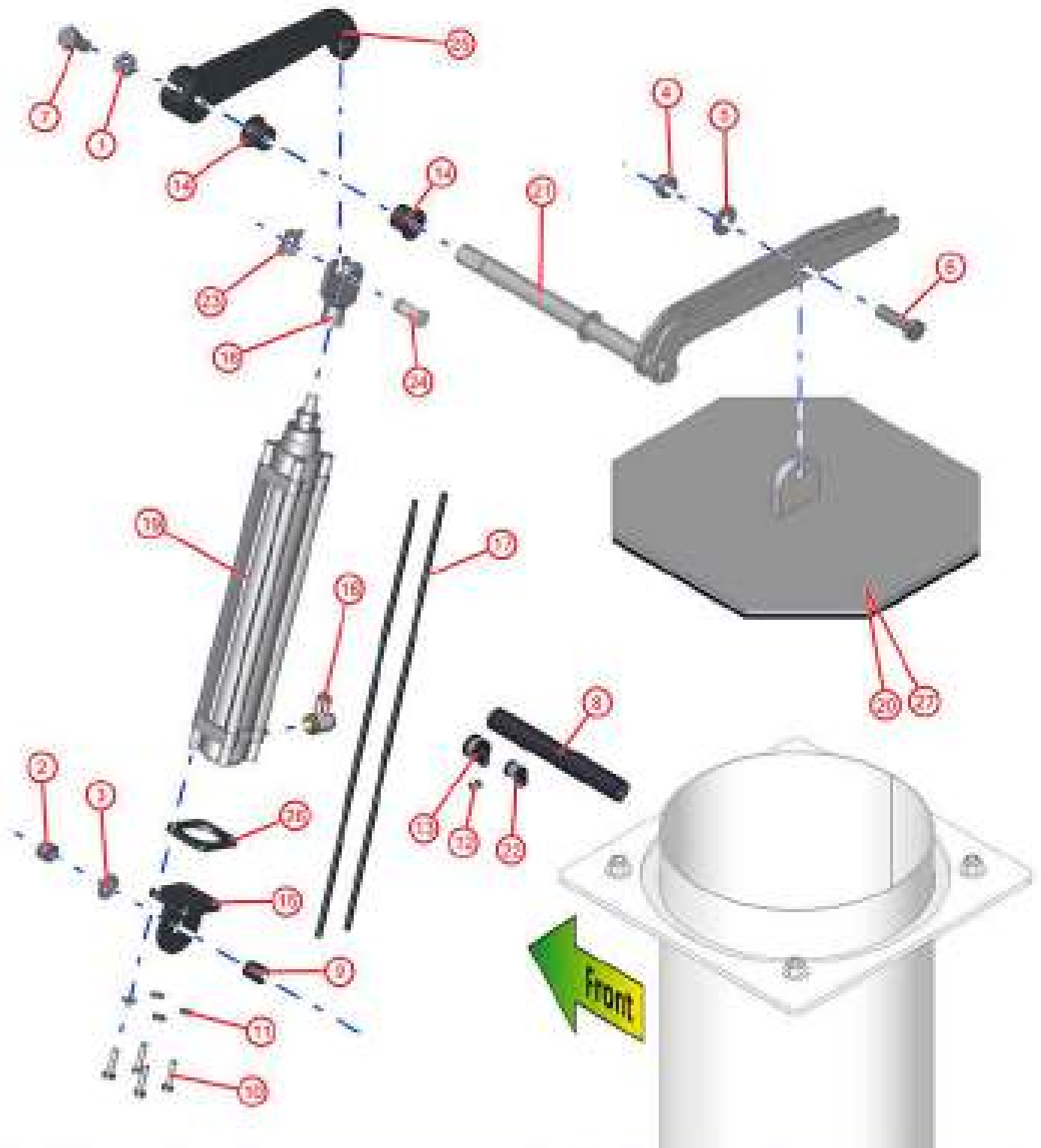
BOM ID	Part No.	Qty	Description
1	SCA000273	2	F SS HEX SETSCREW M12 X 25
2	SCA000275	3	F SS M12 T NYLOC NUT
3	SCA000277	3	F SS NYLOC WASHER M12 FORM C
4	SCA011056	1	F HEX HT BOLT M12 X 70
5	SCA002644	1	DEFLECTOR MAJOR NEW

Suction path - deflectors



BOM ID	Part No.	Qty	Description
1	SCA050823	2	ASSY DEFLECTOR MAJOR PU LINED
2	SCA022644	2	DEFLECTOR MAJOR NEW
3	SCA000273	4	F.SS HEX SETSCREW M12 X 25
4	SCA000275	6	F.SS M12 T NYLOC NUT
5	SCA000277	6	F.SS PWASHER M12 FORM C
6	SCA011056	2	F. HEX HT BOLT M12 X 70

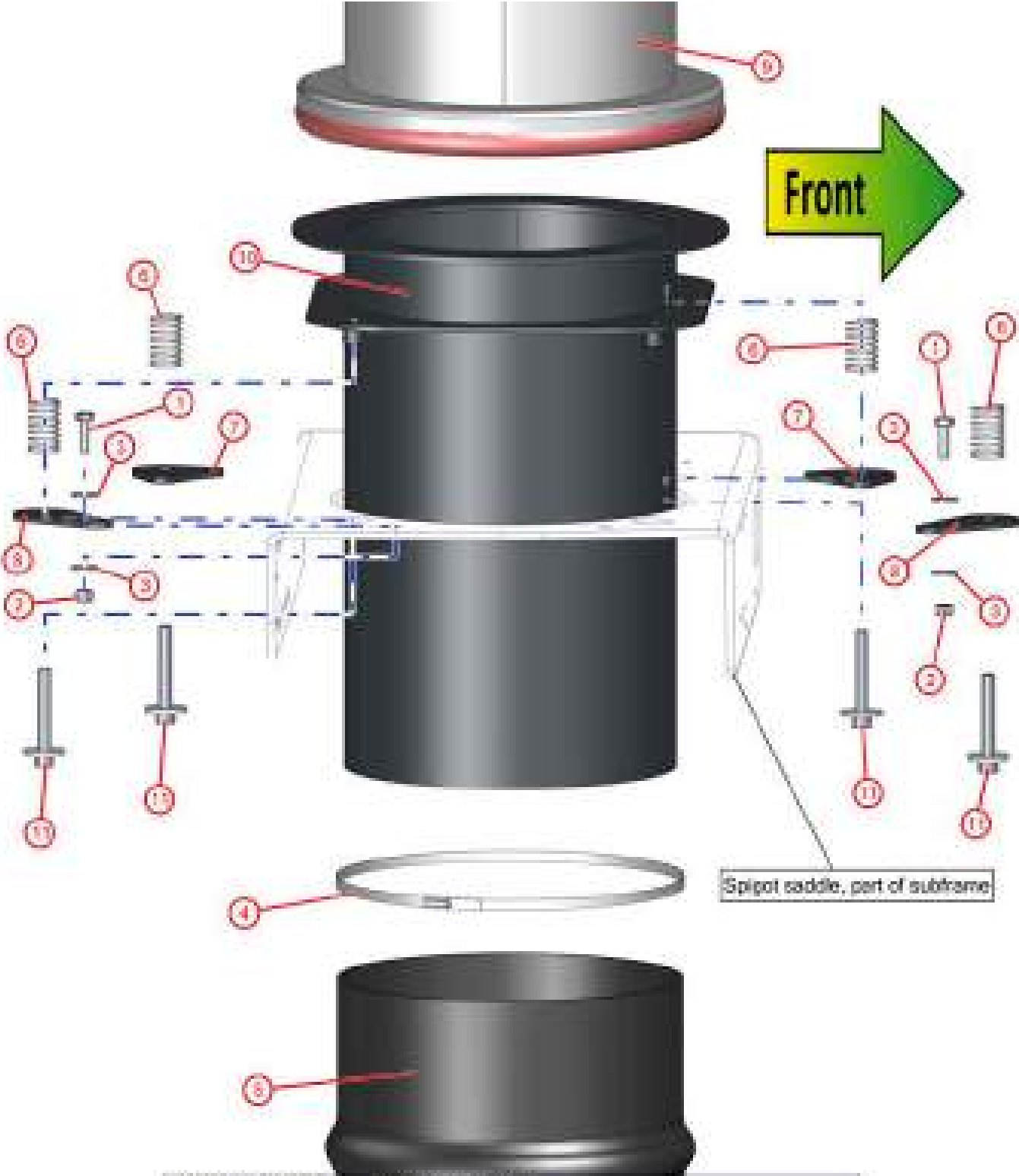
Suction path - auto blanking - left hand



Item ID	Part No.	Qty	Description
1	SCA000011	1	F M12 X 1.25 PITCH LOCK NUT
2	SCA000009	1	F SS M12 TAYLOR NUT
3	SCA000029	1	F SS BRASSER M12 FORM C
4	SCA000029	1	F SS M12 TAYLOR NUT
5	SCA000027	1	F SS BRASSER M12 FORM C
6	SCA000028	1	F SS HEX SET SCREW M12 X 45
7	SCA000063	1	F SS HEX SET SCREW M12 X 1.25
8	SCA000020	1	FLUX DRAIN CONDUIT (OUTLET) 25MM OD
9	SCA010060	1	HOSE 38 BLACK BRAIDED PVC
10	SCA010087	4	F HEX HT SET SCREW M6 X 20
11	SCA010081	8	F SPRING WASHER M6XCT SHCT 300N
12	SCA011031	1	F BRASS BLIND RIVET 4.8x12
13	SCA010293	1	CLIP PIPE 18MM
14	SCA010486	1	BUSH

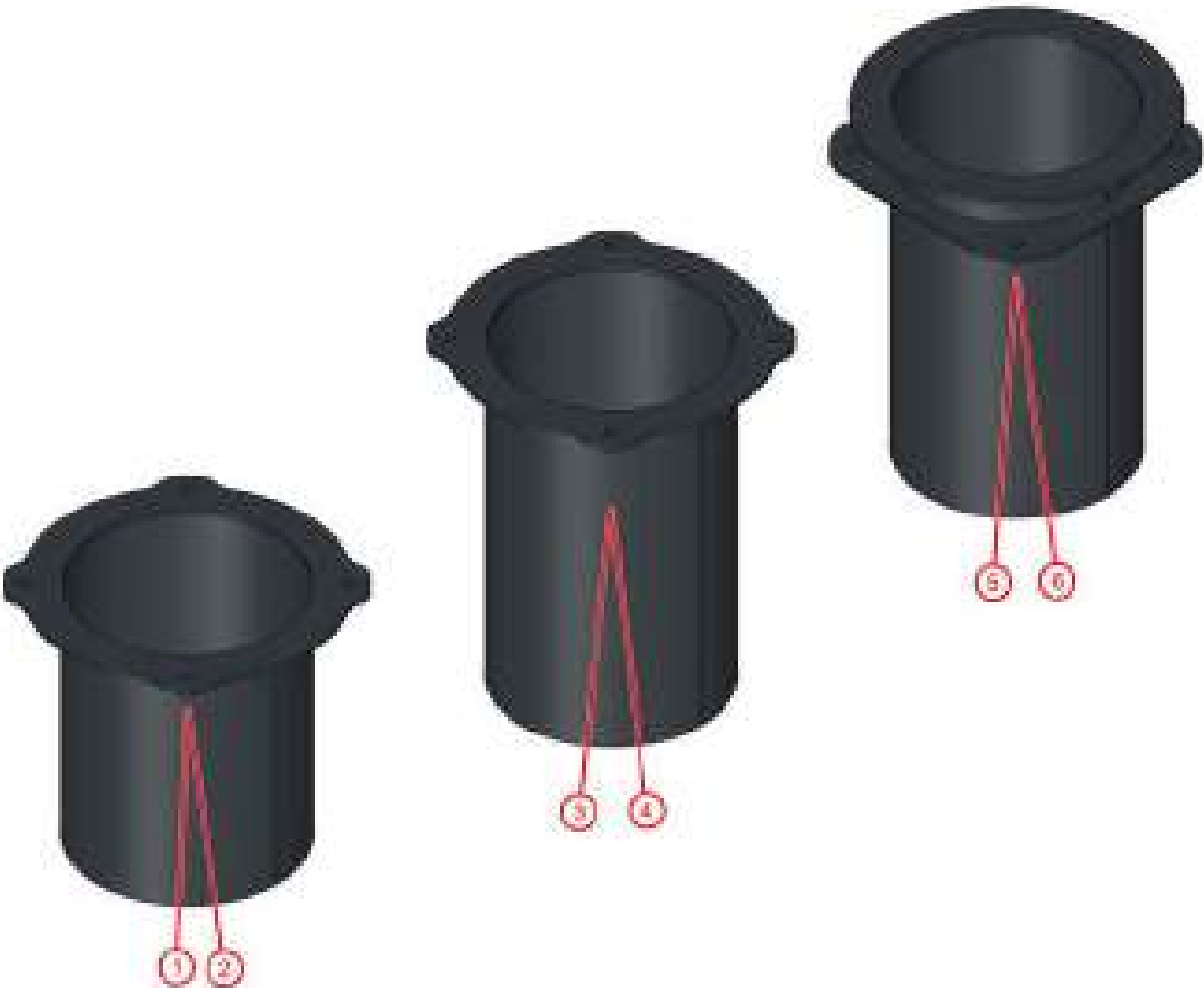
Item ID	Part No.	Qty	Description
15	SCA010467	1	BLW WELSPRT CYLINDER MOUNT
16	SCA010468	1	CLIPPS AIR CYLINDER M12
17	SCA010472	2	F RAN OD X 18MM WT BLACK AIR PIPE
18	SCA001058	1	F PNEUMATIC FLOW REGULATOR
19	SCA001467	1	F PNEUMATIC CYLINDER 48 X 200
20	SCA001514	1	FLAP LID
21	SCA001517	1	FLAP ARM LH
22	SCA001814	1	F CLIP 12 DIA BLIND BRASS
23	SCA001068	1	SAFETY FASTENER 13
24	SCA000078	1	CLAMP PPS 12
25	SCA000072	1	FLAP LEVER 800
26	SCA000002	1	BRACKET - AUTO BLANKING PUMP
27	SCA000013	1	WEEVE FLAP LID PULVER

Suction path - suction spigot - right hand



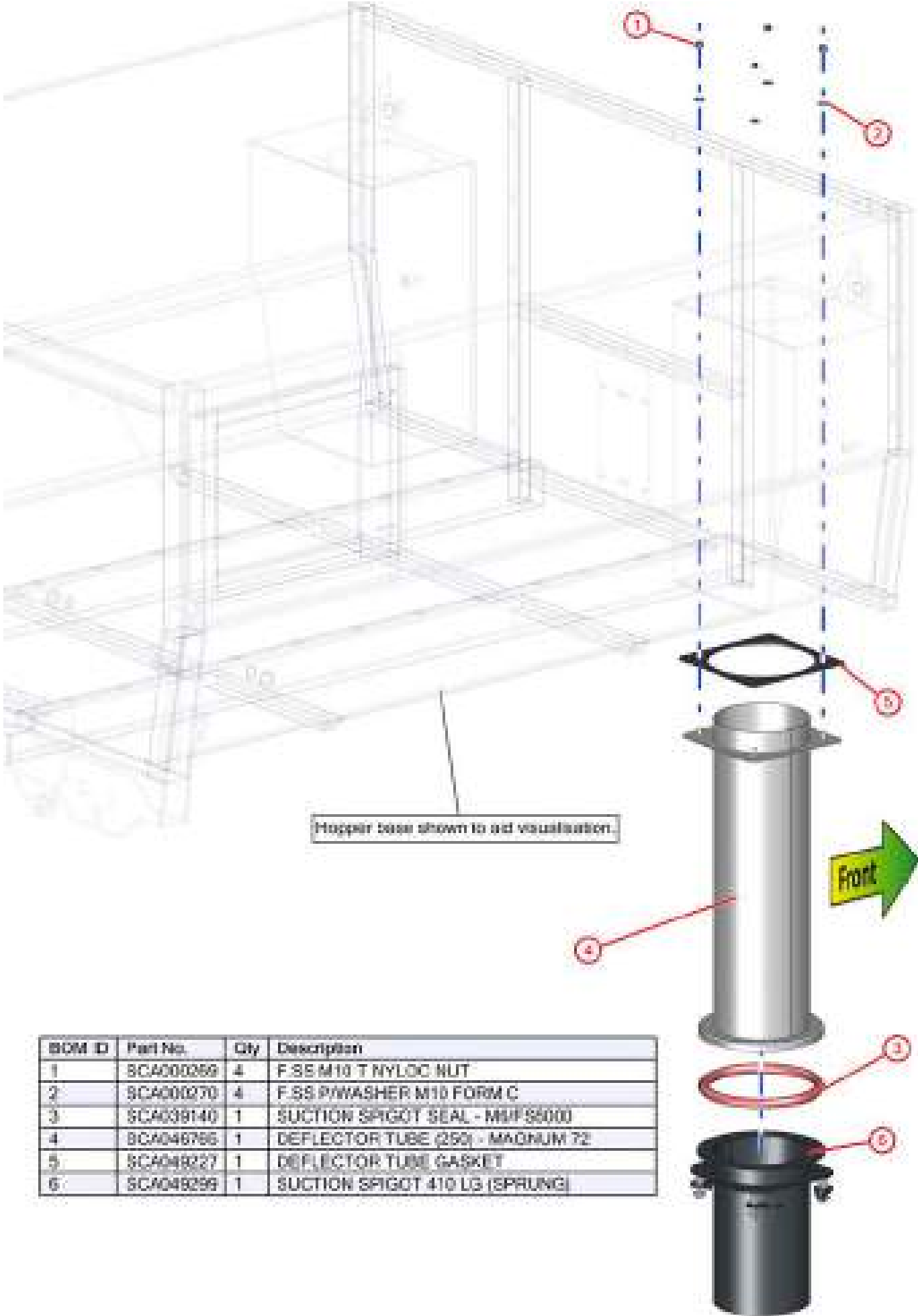
BOM ID	Part No.	Qty	Description
1	SCA011011	2	F.HEX HT SETSCREW M8 X 25
2	SCA011073	2	F.M8 T NYLOC NUT
3	SCA011082	4	F.PWASHER M8 FORM C
4	SCA012933	1	JUBILEE CLIP No 10.50 (235 - 267)
5	SCA013028	1	HOSE SUCTION MAJOR
6	SCA042694	4	SPRING
7	SCA043044	2	SUCTION SPIGOT SPRING SEAT M8E
8	SCA043382	2	SUCTION TUBE LOCKING WASHER - M85T
9	SCA046765	1	DEFLECTOR TUBE (250) - MAGNUM 72
10	SCA048299	1	SUCTION SPIGOT 410 LG (SPRUNG)
11	SCA048322	4	SPRUNG SPIGOT BOLT

Suction path - suction spigots



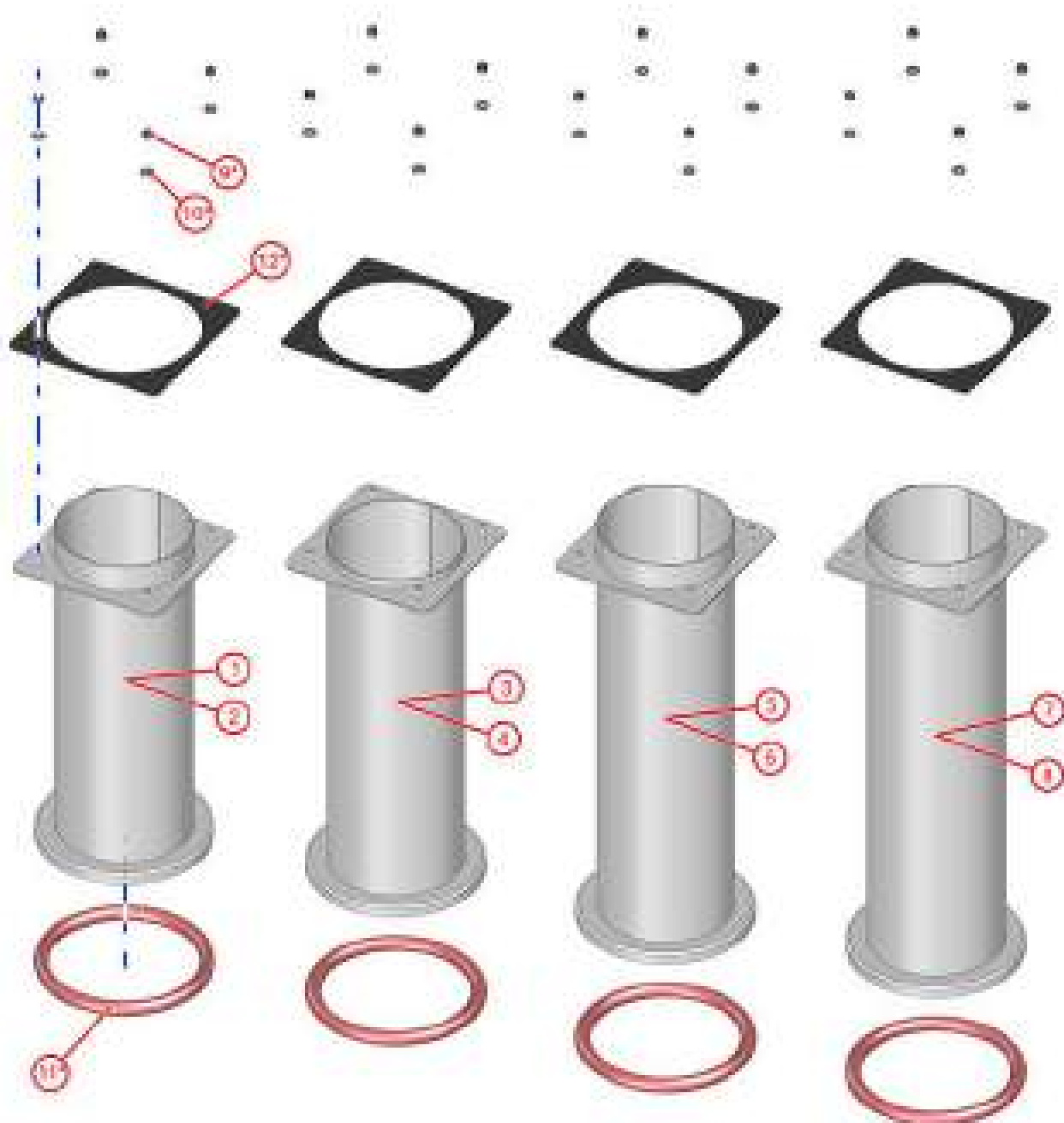
BCM ID	Part No.	Qty	Description
1	SCA047156	1	SUCTION SPIGOT 300 LG (SPRUNG) PU
2	SCA049296	1	SUCTION SPIGOT 300 LG (SPRUNG)
3	SCA049290	1	SUCTION SPIGOT 405LG (SPRUNG) PU
4	SCA049359	1	SUCTION SPIGOT 405 LG (SPRUNG)
5	SCA049360	1	SUCTION SPIGOT 410 LG (SPRUNG) PU
6	SCA049361	1	SUCTION SPIGOT 410 LG (SPRUNG)

Suction path - deflector tube - right hand



BOM ID	Part No.	Qty	Description
1	SCA000259	4	F.SS M10 T NYLOC NUT
2	SCA000270	4	F.SS P/WASHER M10 FORM C
3	SCA039140	1	SUCTION SPIGOT SEAL - MSF S6000
4	SCA046786	1	DEFLECTOR TUBE (250) - MAGNUM 72
5	SCA048227	1	DEFLECTOR TUBE GASKET
6	SCA048299	1	SUCTION SPIGOT 410 LG (SPRUNG)

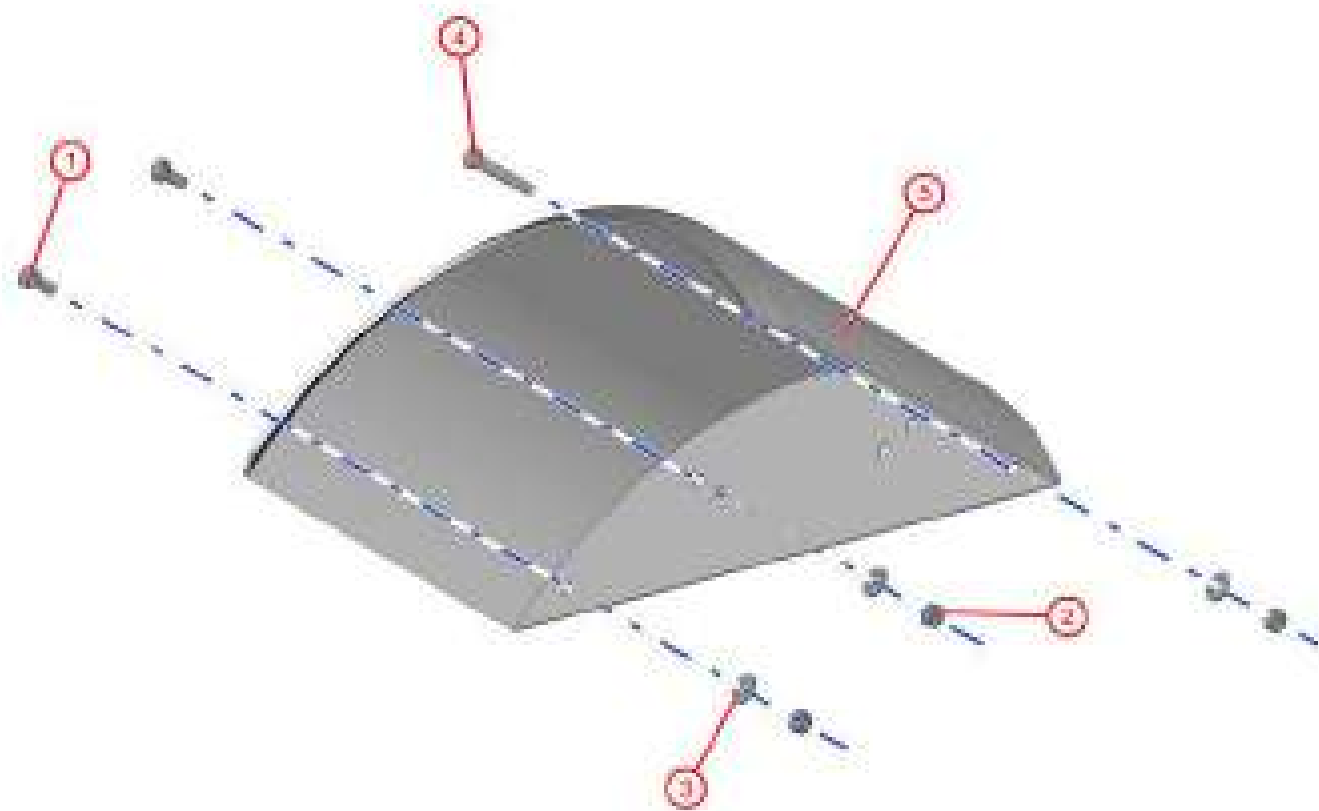
Suction path - deflector tubes



BOM ID	Part No.	Qty	Description
1	SCA049351	1	DEFLECTOR TUBE (250) PU - MERLIN 55
2	SCA049352	1	DEFLECTOR TUBE (250) - MERLIN 55
3	SCA049353	1	DEFLECTOR TUBE (250) PU - MERLIN 72
4	SCA049354	1	DEFLECTOR TUBE (250) - MERLIN 72
5	SCA047665	1	DEFLECTOR TUBE (250) PU - MAGNUM 82
6	SCA047155	1	DEFLECTOR TUBE (250) - MAGNUM 82
7	SCA047464	1	DEFLECTOR TUBE (250) PU - MAGNUM 82
8	SCA049296	1	DEFLECTOR TUBE (250) - MAGNUM 82
9*	SCA000369	4	F.SS M10 T NYLOC NUT
10*	SCA000270	4	F.SS PWASHER M10 FORM C
11*	SCA039140	1	SUCTION SPIGOT SEAL - M5/F56000
12*	SCA049227	1	DEFLECTOR TUBE GASKET

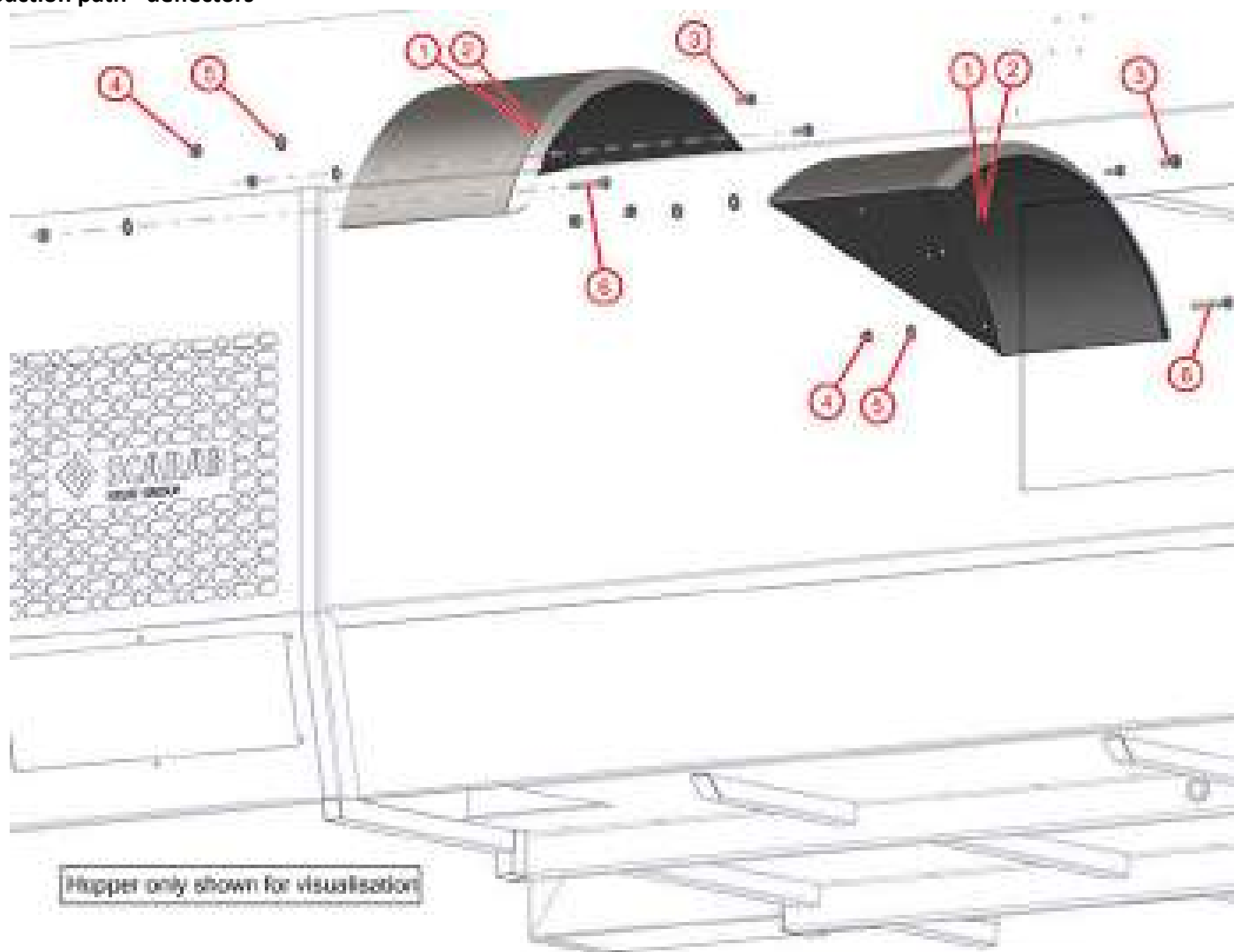
* = Per deflector tube

Suction path - deflector - right hand



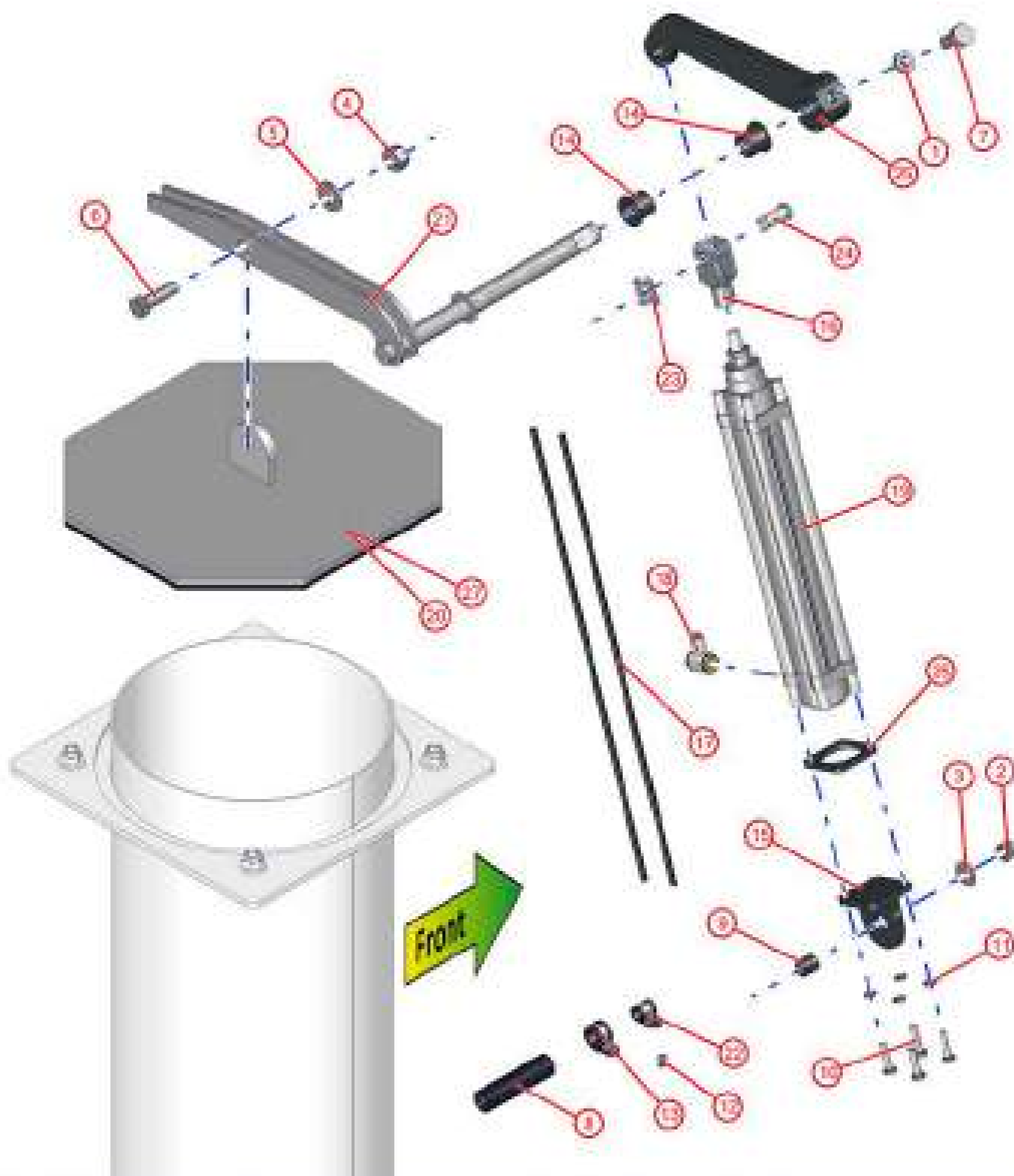
BOM ID	Part No.	Qty	Description
1	SCA000273	2	F.SS HEX. SETSCREW M12 X 25
2	SCA000275	3	F.SS M12 T NYLOC NUT
3	SCA000277	3	F.SS PWASHER M12 FORM C
4	SCA011056	1	F.HEX HT BOLT M12 X 70
5	SCA023644	1	DEFLECTOR MAJOR NEW

Suction path - deflectors



BOM ID	Part No.	Qty	Description
1	SCA050823	2	ASSY DEFLECTOR MAJOR PU LINED
2	SCA022644	2	DEFLECTOR MAJOR NEW
3	SCA000273	4	F.SS HEX SETSCREW M12 X 25
4	SCA000275	6	F.SS M12 T NYLOC NUT
5	SCA000277	6	F.SS WASHER M12 FORM C
6	SCA011056	2	F. HEX HT BOLT M12 X 70

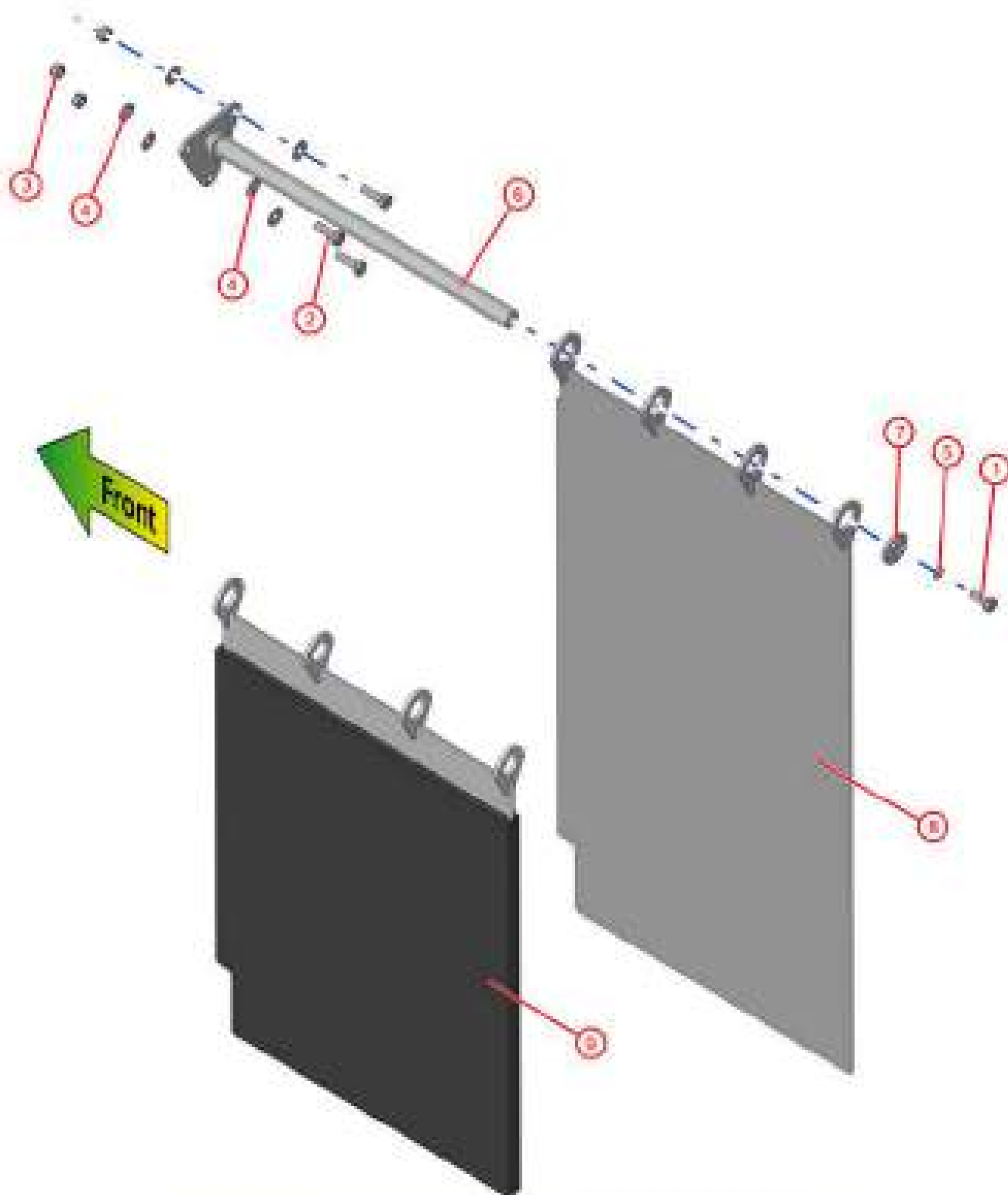
Suction path - auto blanking - right hand



ITEM ID	Part No.	Qty	Description
1	SCA000011	1	F M12 X 1.25 PITCH LOCKNUT
2	SCA000089	1	F SS M12 TAYLOR NUT
3	SCA000079	1	F SS BRASSER M12 FORM C
4	SCA000075	1	F SS M12 TAYLOR NUT
5	SCA000077	1	F SS BRASSER M12 FORM C
6	SCA000078	1	F SS HEX SETSCREW M12 X 45
7	SCA000083	1	F SS HEX SETSCREW M12 X 1.25
8	SCA000070	1	SEAL CONDUIT 20mm - BLACK NYLON
9	SCA010060	1	HOSE 38 BLACK BRAIDED PVC
10	SCA011087	4	F HEX HT SETSCREW M6 X 20
11	SCA011081	8	F SPRING WASHER M6XCT SHCT 300N
12	SCA011131	1	F BRASS BLIND NUT M12 X 1.25
13	SCA011293	1	CLIP PIPE 18MM
14	SCA013486	1	BUSH

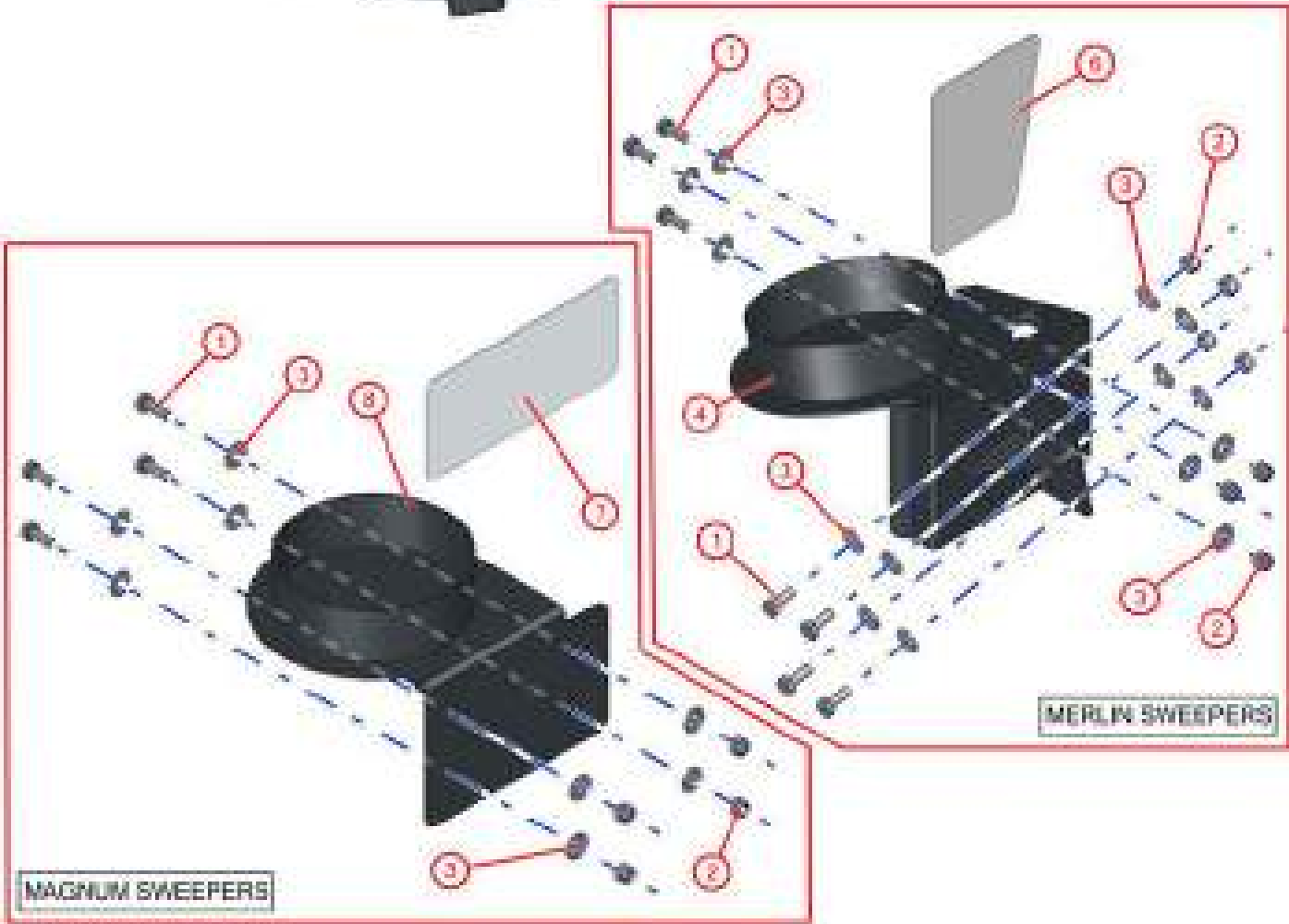
ITEM ID	Part No.	Qty	Description
15	SCA000467	1	BLW W/BRKT CYLINDER MOUNT
16	SCA000468	1	CLIP W/ AIR CYLINDER M12
17	SCA0004072	2	F 3MM OD X 18MM WT BLACK AIR PIPE
18	SCA001158	1	F PNEUMATIC FLOW REGULATOR
19	SCA001467	1	F PNEUMATIC CYLINDER 40 X 200
20	SCA001514	1	FLAP LID
21	SCA001518	1	FLAP ARM RH
22	SCA001814	1	F CLIP 12 DIA HERRING-BEADED
23	SCA000068	1	SAFETY FASTENER 13
24	SCA000076	1	CLIP W/ P12
25	SCA000772	1	FLAP LEVER 4000
26	SCA000002	1	BRACKET - AUTO BLANKING RAM
27	SCA000013	1	WEAVE FLAP LID PULVERED

Suction path - swing plate



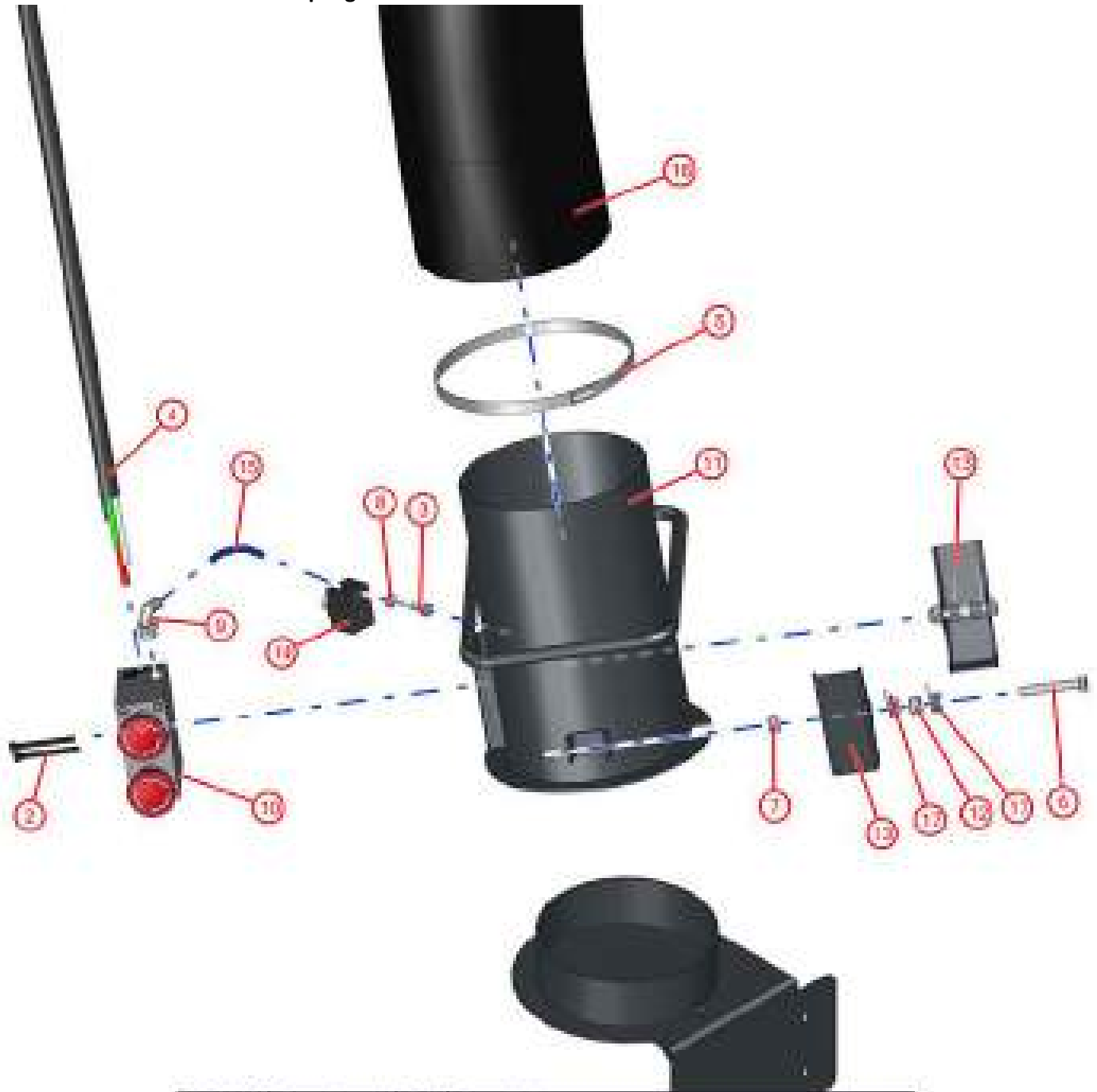
BOM ID	Part No.	Qty	Description
1	SCA011001	1	F HEX HT SETSCREW M10 X 25
2	SCA011002	3	F HEX HT SETSCREW M10 X 30
3	SCA011005	3	F M10 T NYLOC NUT
4	SCA011004	6	F RWASHER M10 FORM C
5	SCA011005	1	F SPRING WASHER M10
6	SCA030536	1	ASSY DEFLECTOR FLAP MOUNTING BAR
7	SCA030537	1	WASHER 10.5 x 40 x 5LG
8	SCA031888	1	DEFLECTOR FLAP ROSMECH
9	SCA050736	1	ASSYE DEFLECTOR FLAP PU LINED

Overhead boom - stowage bracket - left hand



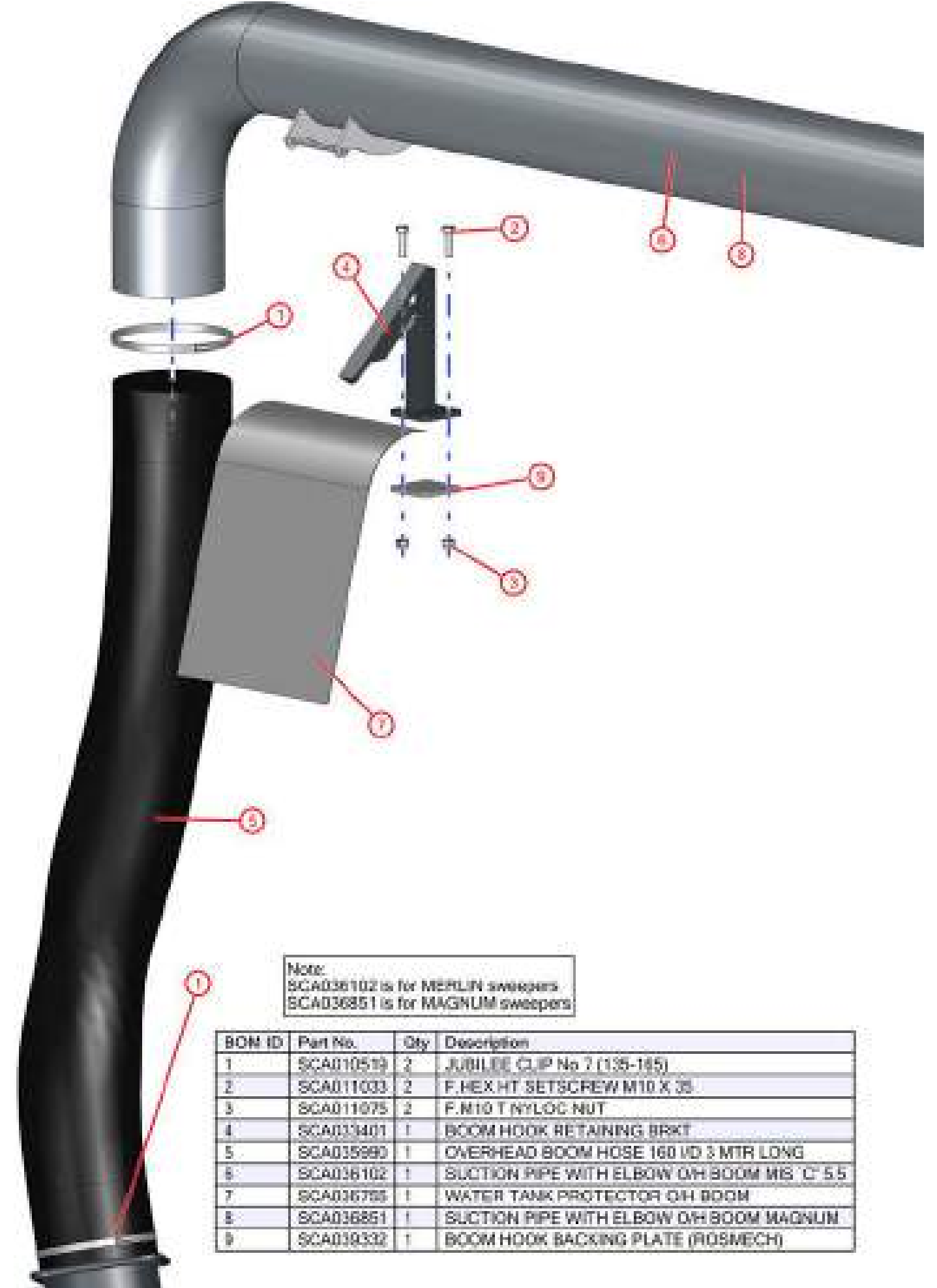
BOM ID	Part No.	Qty	Description
1	SCA000356	11	F.SS HEX SETSCREW M8 X 20
2	SCA000263	11	F.SS M8 T NYLOC NUT
3	SCA000264	22	F.SS PWASHER M8 FORM C
4	SCA033400	1	BOOM HOSE COUPLING STOWAGE BRKT LH
5	SCA033402	1	HOSE COUPLING OVERHEAD BOOM
6	SCA033999	1	RH OH BOOM HOPPER PROTECTOR PLATE
7	SCA034384	1	CAB PROTECTOR PLT OH BOOM MAGNUM
8	SCA049540	1	BOOM HOSE STOWAGE BRKT MAGNUM 72 LH

Overhead boom - controls and coupling - left hand



BOM ID	Part No.	Qty	Description
2	SCA000137	2	F.SKT CP SC M5 X 50
3	SCA000250	1	F.SS HEX SETSCREW M6 X 16
4	SCA006540	1	P.NYLON MULTI-CORE TUBING 6MM X 4 WAY
5	SCA010519	1	JUBILEE CLIP No 7 (135-165)
6	SCA011016	2	F.HEX HT SETSCREW M8 X 50
7	SCA011073	2	F.M8 T NYLOC NUT
8	SCA011091	1	F.SPRING WASHER M6 RECT SECT S/COIL
9	SCA023203	1	P.PUSH IN ELBOW 6MM X 1/4" BSP (SWIVEL)
10	SCA033110	1	OVERHEAD BOOM CONTROL VALVE
11	SCA033402	1	HOSE COUPLING OVERHEAD BOOM
12	SCA033463	2	SPACER 15 OD X 9 ID X 10 LONG
13	SCA033536	2	CLAMP HANDLE O/H BOOM HOSE COUPLING
14	SCA034342	1	LP WATER NOZZLE
15	SCA035733	5	P.6 DIA BLUE FLEXIBLE NYLON TUBING
16	SCA035990	1	OVERHEAD BOOM HOSE 160 ID 3 MTR LONG
17	SCA050553	4	ASSY LATCH SPRING O/H BOOM HOSE CPL

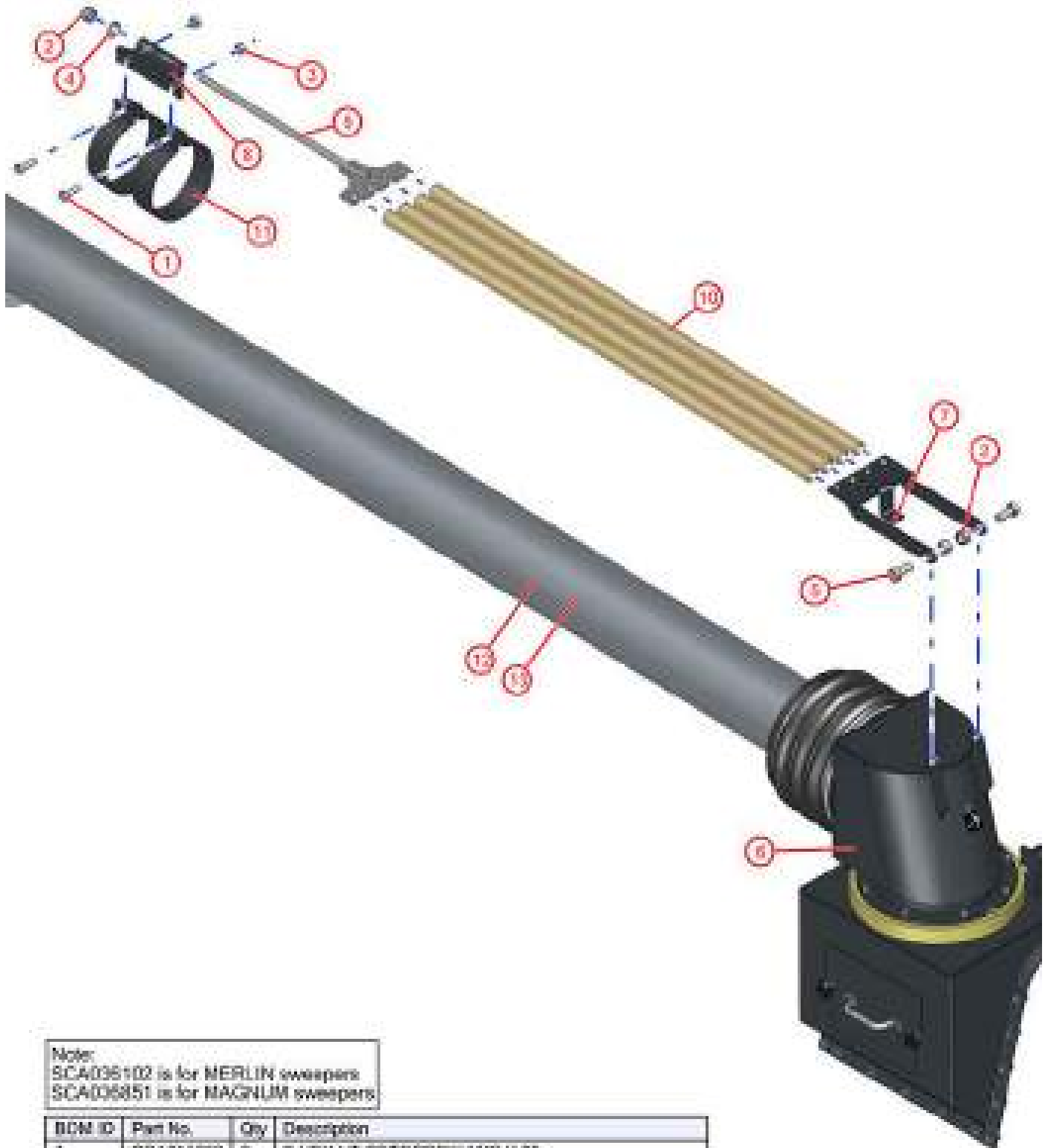
Overhead boom - hose and boom retaining bracket - left hand



Note:
SCA036102 is for MERLIN sweepers
SCA036851 is for MAGNUM sweepers

BOM ID	Part No.	Qty	Description
1	SCA010519	2	JUBILEE CLIP No 7 (135-145)
2	SCA011033	2	F.HEX HT SETSCREW M10 X 35
3	SCA011075	2	F.M10 T NYLOC NUT
4	SCA033401	1	BOOM HOOK RETAINING BRKT
5	SCA035980	1	OVERHEAD BOOM HOSE 160 ID 3 MTR LONG
6	SCA036102	1	SUCTION PIPE WITH ELBOW OH BOOM MER "C" 5.5
7	SCA036755	1	WATER TANK PROTECTOR OH BOOM
8	SCA036851	1	SUCTION PIPE WITH ELBOW OH BOOM MAGNUM
9	SCA036332	1	BOOM HOOK BACKING PLATE (ROSMECH)

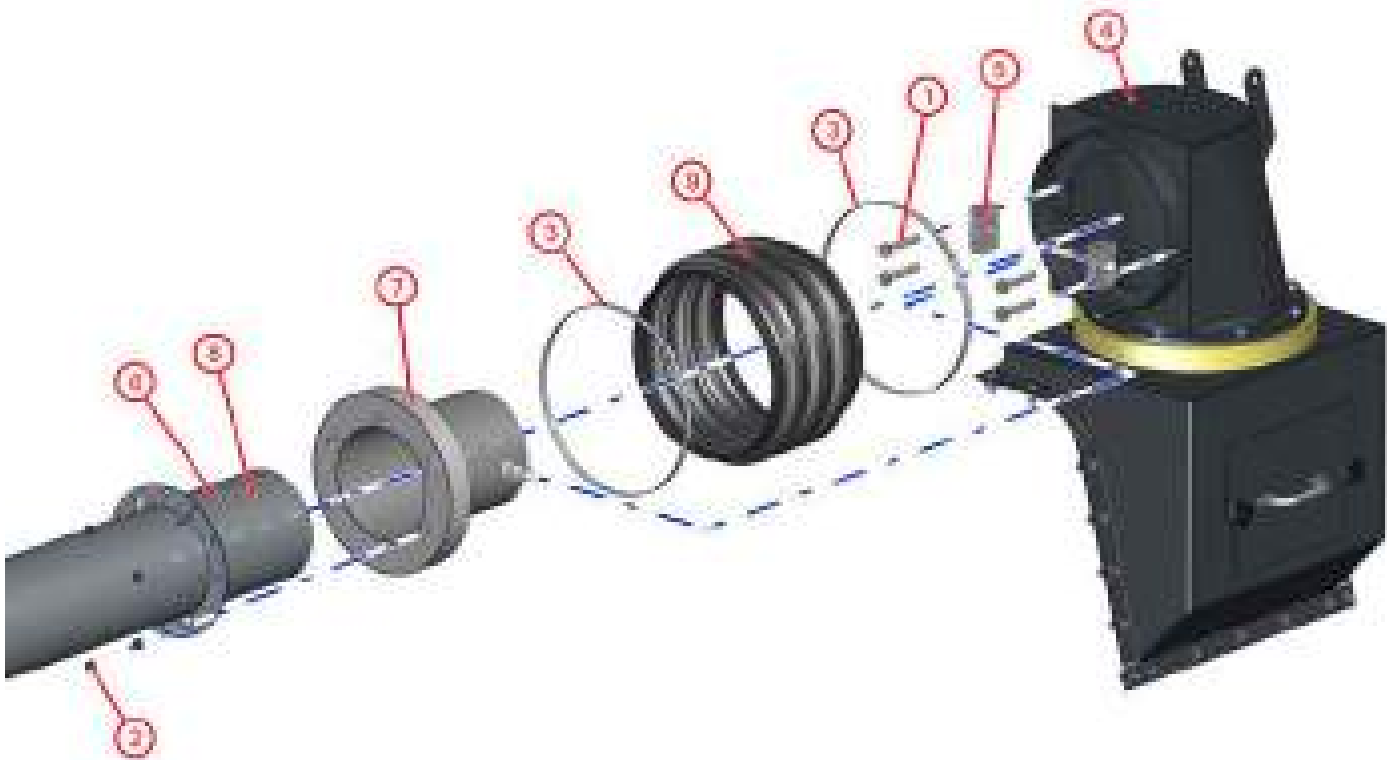
Overhead boom - tensioner - left hand



Note:
SCA036102 is for MERLIN sweepers
SCA036851 is for MAGNUM sweepers

BOB ID	Part No.	Qty	Description
1	SCA011053	2	F. HEX HT SETSCREW M12 X 35
2	SCA011060	3	F. M16 T NYLOC NUT
3	SCA011077	2	F. M12 T NYLOC NUT
4	SCA011136	1	F. P/WASHER M16 FORM C
5	SCA011141	2	F. HEX BOLT M16 X 35
6	SCA013703	1	BOOM ELBOW
7	SCA013801	1	BRKT SPRING ANCHOR
8	SCA013802	1	BRKT TENSIONER ANCHOR
9	SCA013804	1	TENSIONER - BOOM
10	SCA013806	4	SPRING 805 L/G
11	SCA036089	2	TENSIONER CLAMP O/H BOOM
12	SCA036102	1	SUCTION PIPE WITH ELBOW O/H BOOM M16 "C" 5.5
13	SCA036851	1	SUCTION PIPE WITH ELBOW O/H BOOM MAGNUM

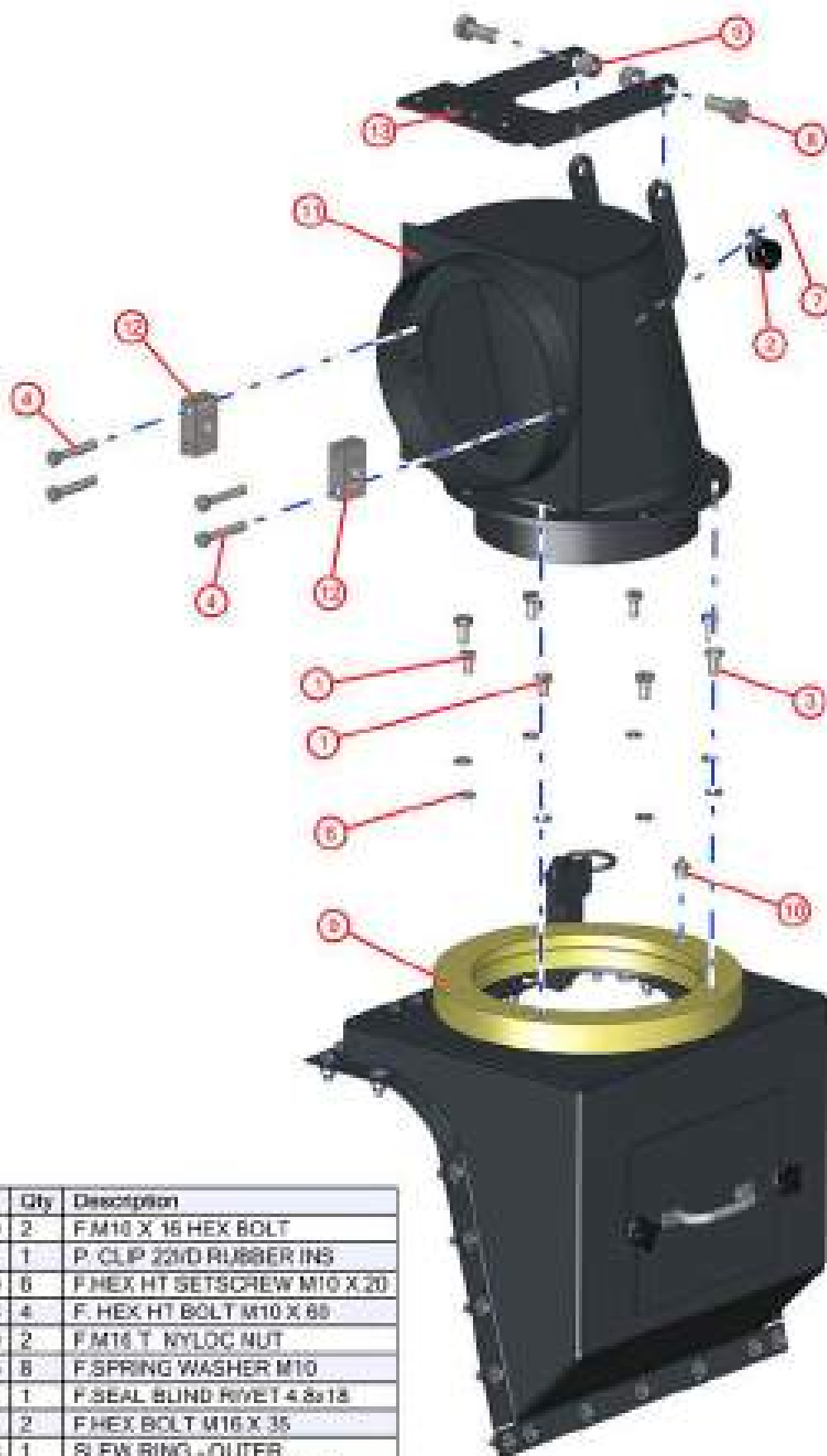
Overhead boom - flexible coupling - left hand



Note:
SCA036102 is for MERLIN sweepers
SCA036851 is for MAGNUM sweepers

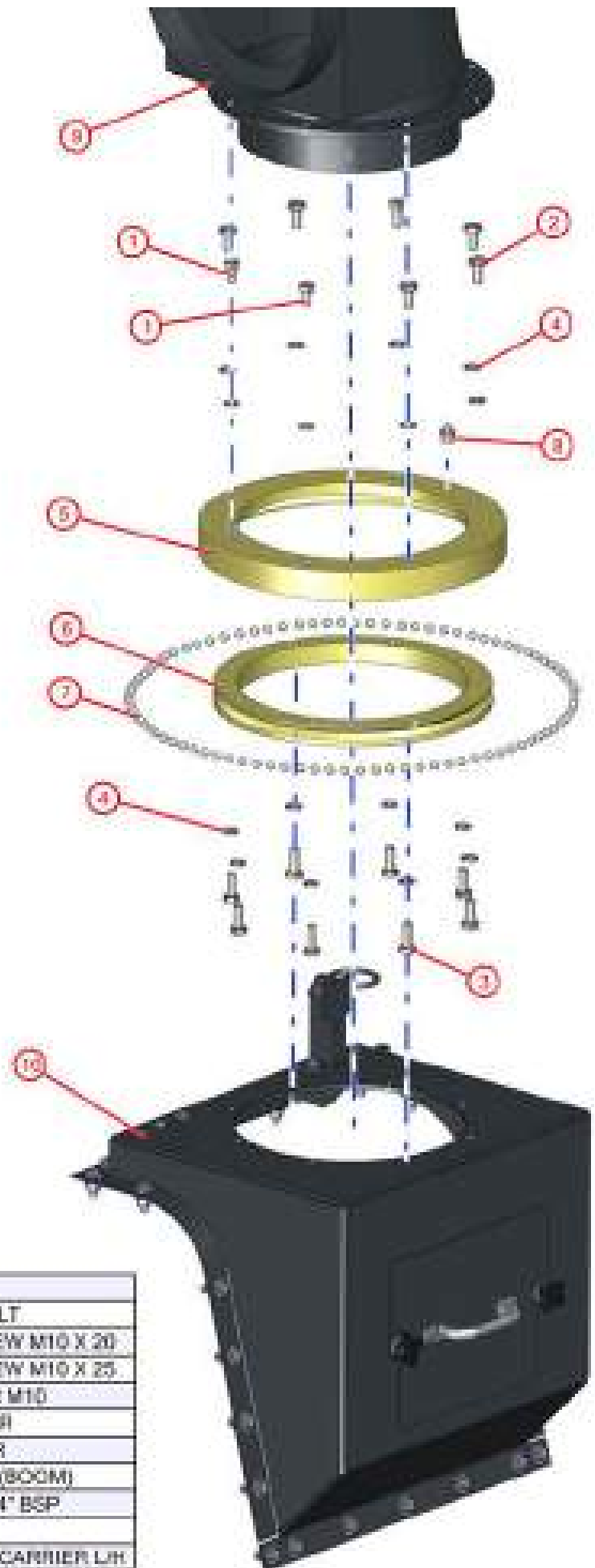
BOM ID	Part No.	Qty	Description
1	SCA011035	4	F. HEX HT BOLT M10 X 60
2	SCA011073	6	F.M8 T NYLOC NUT
3	SCA012903	2	JUBILEE CLIP No 10.50 (235 - 267)
4	SCA013793	1	BOOM ELBOW
5	SCA013798	2	PIVOT BLOCK
6	SCA036102	1	SUCTION PIPE WITH ELBOW O/H BOOM MIS 'C' 5.5
7	SCA036174	1	BOOM PIVOT O/H BOOM 2808
8	SCA036851	1	SUCTION PIPE WITH ELBOW O/H BOOM MAGNUM
9	SCA044107	1	CUFF - BOOM PIVOT

Overhead boom - elbow - left hand



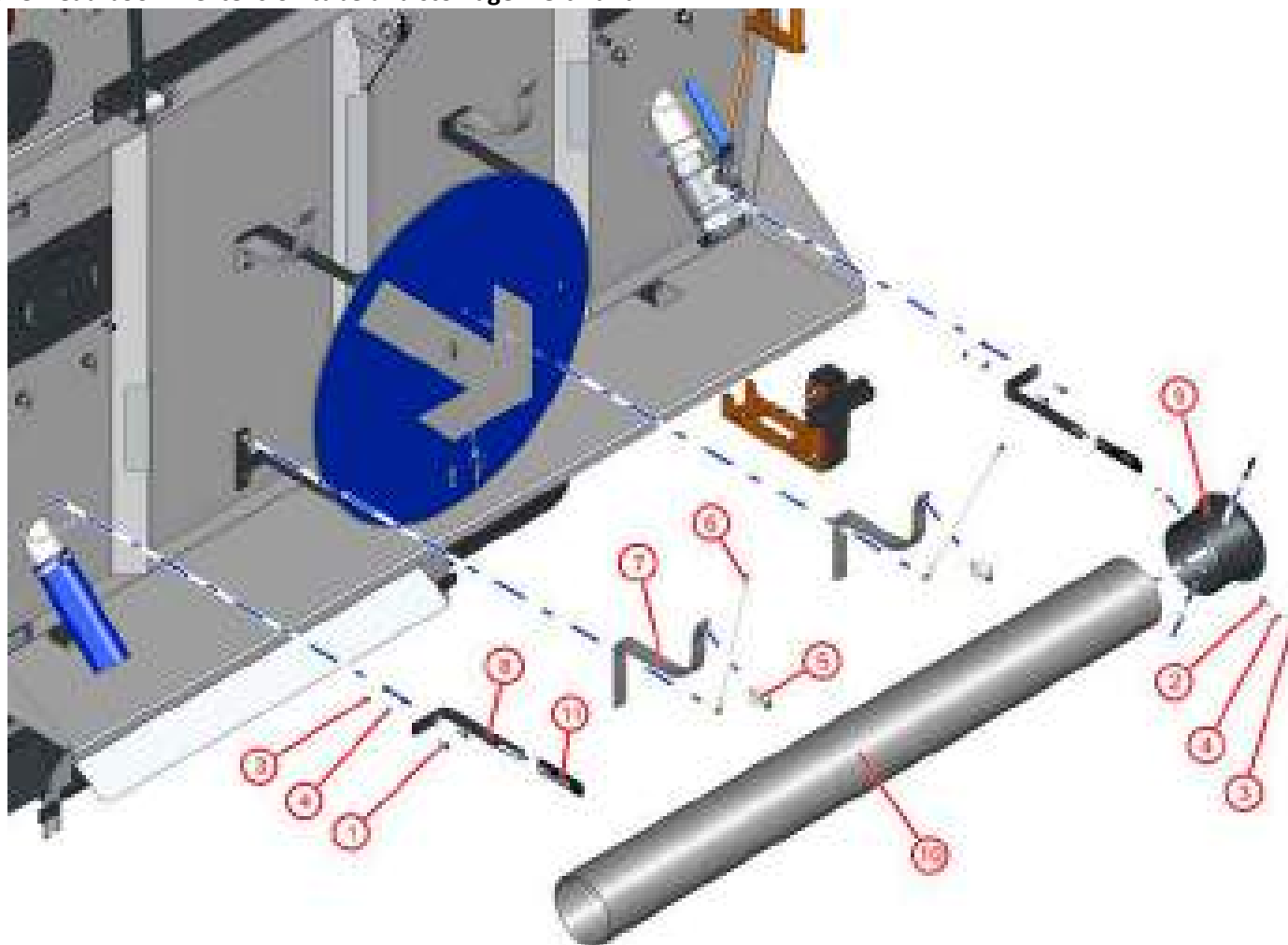
BOM ID	Part No.	Qty	Description
1	SCA000210	2	F.M10 X 15 HEX BOLT
2	SCA003001	1	P. CLIP 23/D RUBBER INS
3	SCA011030	6	F.HEX HT SETSCREW M10 X 20
4	SCA011036	4	F. HEX HT BOLT M10 X 80
5	SCA011060	2	F.M16 T. NYLOC NUT
6	SCA011096	8	F.SPRING WASHER M10
7	SCA011131	1	F.SEAL BLIND RIVET 4 & 18
8	SCA011141	2	F.HEX BOLT M16 X 35
9	SCA013788	1	SLEW RING - OUTER
10	SCA013792	1	GREASE NIPPLE 1/4" BSP
11	SCA013793	1	BOOM ELBOW
12	SCA013798	2	PIVOT BLOCK
13	SCA013801	1	BRKT SPRING ANCHOR

Overhead boom - slewing ring - left hand



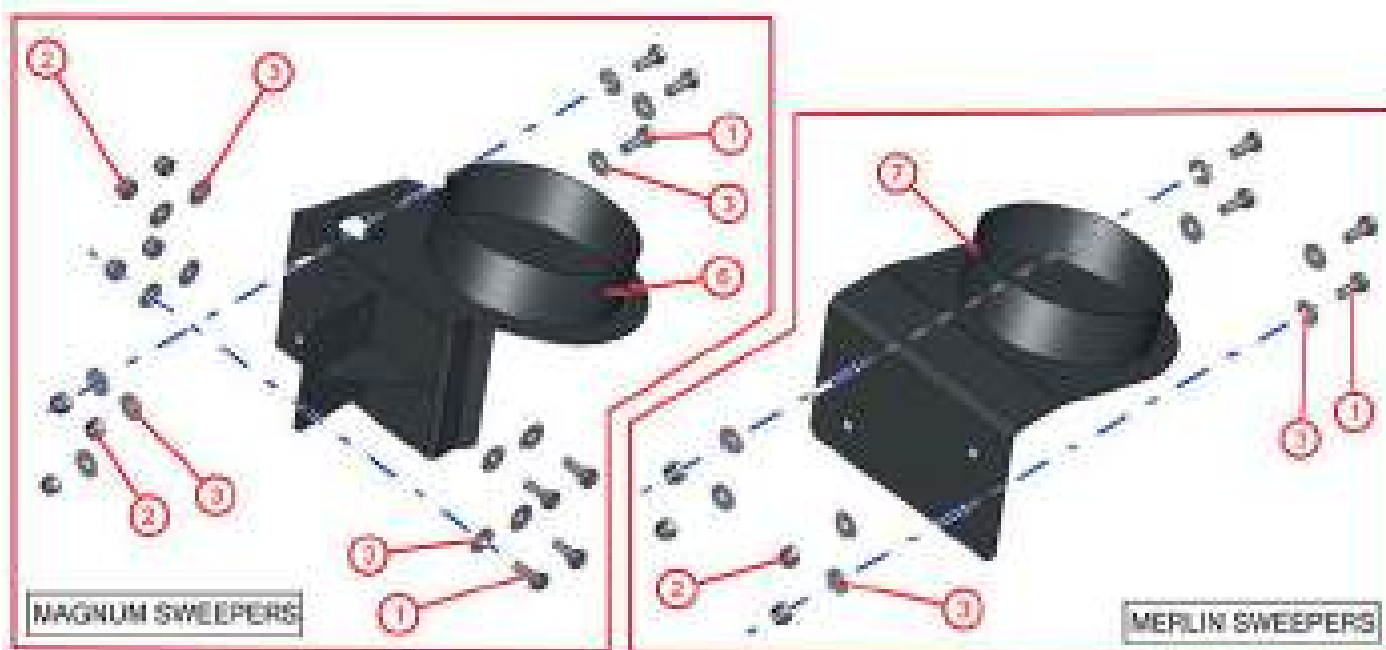
BOM ID	Part No.	Qty	Description
1	SCA000210	2	F.M10 X 15 HEX BOLT
2	SCA011030	6	F.HEX HT SETSCREW M10 X 20
3	SCA011031	8	F.HEX HT SETSCREW M10 X 25
4	SCA011095	16	F.SPRING WASHER M10
5	SCA013788	1	SLEW RING - OUTER
6	SCA013789	1	SLEW RING - INNER
7	SCA013791	92	BALL 10MM STEEL (BOOM)
8	SCA013792	1	GREASE NIPPLE 1/4" BSP
9	SCA013793	1	BOOM ELBOW
10	SCA032166	1	OVERHEAD BOOM CARRIER L/H

Overhead boom - extension tube and stowage - left hand



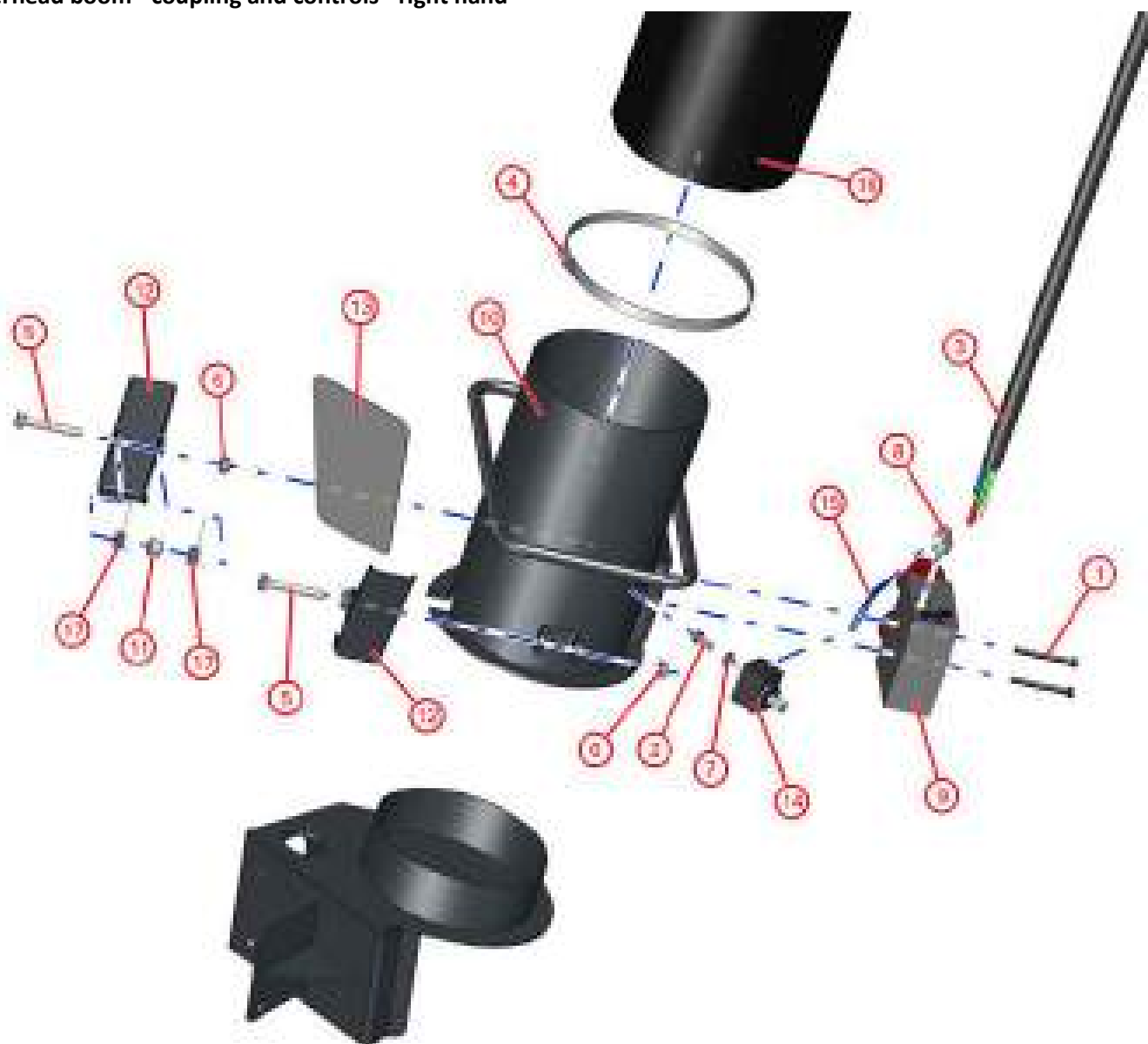
BOM ID	Part No.	Qty	Description
1	SCA000252	4	F SS HEX SETSCREW M6 X 20
2	SCA000373	4	F M6X16 SKT DOME HEAD BOREW ST ST
3	SCA011071	8	F M6 T NYLOC NUT
4	SCA011090	8	F PWASHER M6 FORM C
5	SCA013507	2	LINCH PIN & CHAIN MAINSCREEN
6	SCA020111	2	CABLE LEASH
7	SCA022747	2	WANDER PIPE HOOK
8	SCA026330	2	SUBFRAME BRKT MAG PIPE WORK
9	SCA030403	1	BOOM TUBE COUPLING
10	SCA034551	1	ALUMINIUM TUBE O/H BOOM TUBE COUPLING
11	SCA040002	2	DOOR HANDLE SLEEVE

Overhead boom - stowage bracket - right hand



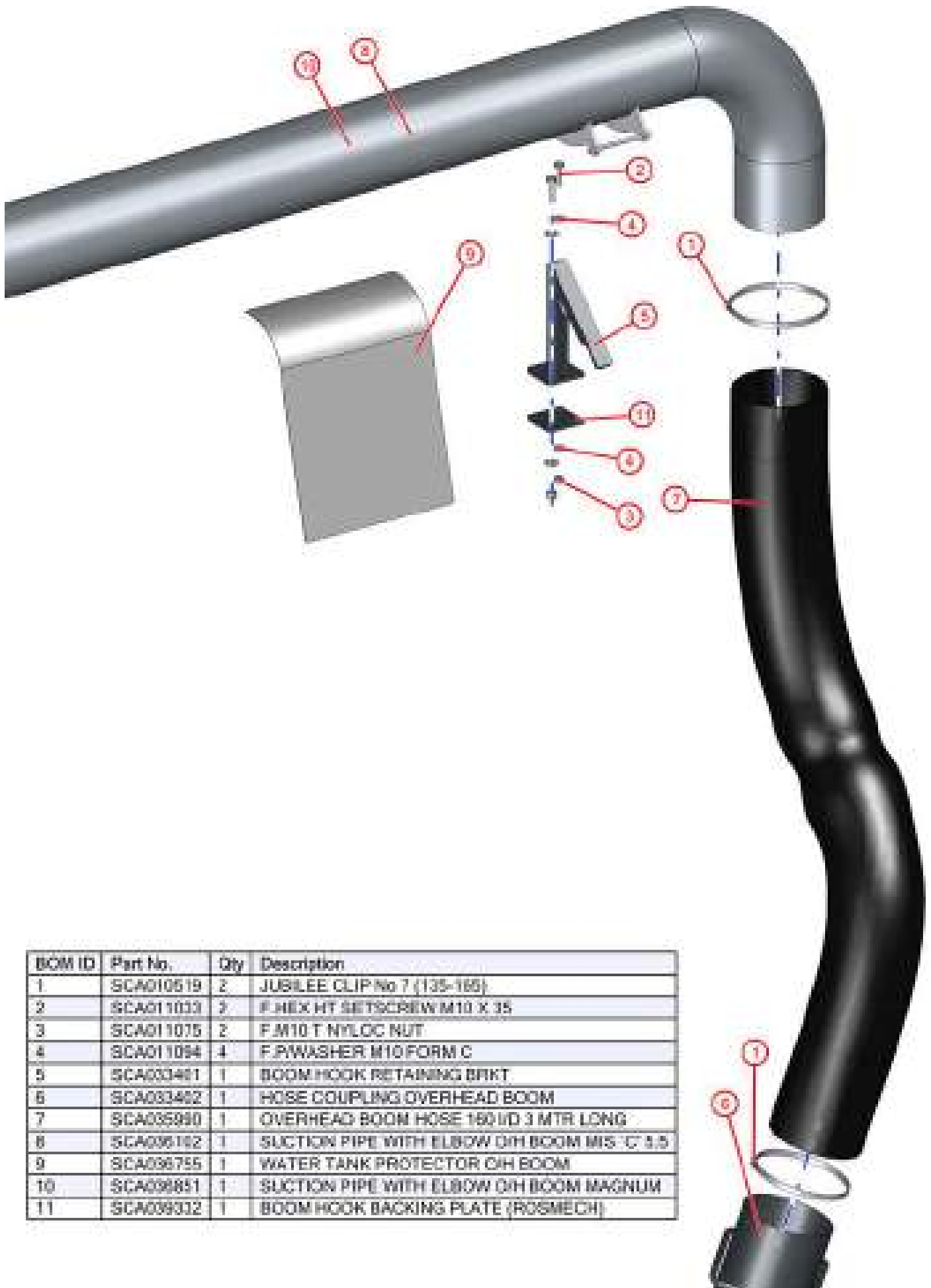
BOM ID	Part No.	Qty	Description
1	SCA000256	11	F.SS HEX SETSCREW M8 X 20
2	SCA000263	11	F.SS M8 T NYL OC NUT
3	SCA000264	22	F.SS P/WASHER M8 FORM C
4	SCA033402	1	HOSE COUPLING OVERHEAD BOOM
5	SCA033999	1	RH OH BOOM HOPPER PROTECTOR PLATE
6	SCA034067	1	BOOM HOSE COUPLING STOWAGE BRKT R/H
7	SCA034070	1	BOOM HOSE STOWAGE BRKT MERLIN R/H

Overhead boom - coupling and controls - right hand



BOM ID	Part No.	Qty	Description
1	SCA000137	2	F SKT CP SC M5 X 50
2	SCA000255	1	F SS HEX SETSCREW M5 X 16
3	SCA006040	1	P NYLON MULTI-CORE TUBING 6MM X 4 WAY
4	SCA010519	1	JUBILEE CLIP No 7 (135-165)
5	SCA011015	2	F HEX HT SETSCREW M8 X 50
6	SCA011073	2	F M8 T NYLOC NUT
7	SCA011091	1	F SPRING WASHER M6 RECT SECT 3/60L
8	SCA023203	1	P PUSH IN ELBOW 6MM X 1/4" BSP (90°VEL)
9	SCA033110	1	OVERHEAD BOOM CONTROL VALVE
10	SCA033402	1	HOSE COUPLING OVERHEAD BOOM
11	SCA033463	2	SPACER 15 O/D X 9 I/D X 10 LONG
12	SCA033536	2	CLAMP HANDLE OH BOOM HOSE COUPLING
13	SCA033999	1	R/H OH BOOM HOPPER PROTECTOR PLATE
14	SCA034342	1	LP WATER NOZZLE
15	SCA035733	1	P 6 DIA BLUE FLEXIBLE NYLON TUBING
16	SCA035990	1	OVERHEAD BOOM HOSE 160 I/D 3 MTR LONG
17	SCA050553	4	ASSY LATCH SPRING OH BOOM HOSE COUPLING

Overhead boom - hose and boom retaining bracket - right hand



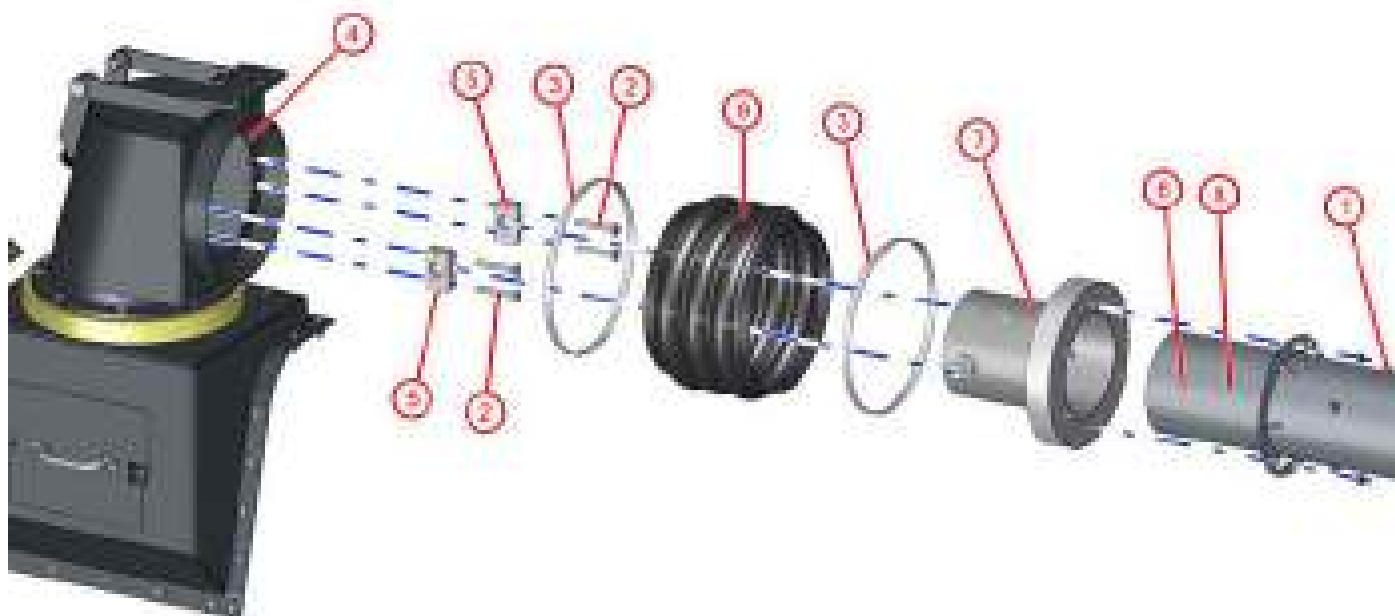
BOM ID	Part No.	Qty	Description
1	SCA010519	2	JUBILEE CLIP No 7 (135-165)
2	SCA011033	2	F HEX HT SETSCREW M10 X 35
3	SCA011015	2	F M10 T NYLOC NUT
4	SCA011054	4	F RWASHER M10 FORM C
5	SCA030401	1	BOOM HOOK RETAINING BRKT
6	SCA030402	1	HOSE COUPLING OVERHEAD BOOM
7	SCA035950	1	OVERHEAD BOOM HOSE 150 I/D 3 MTR LONG
8	SCA036162	1	SUCTION PIPE WITH ELBOW O/H BOOM MIS C 3.5
9	SCA036755	1	WATER TANK PROTECTOR O/H BOOM
10	SCA039851	1	SUCTION PIPE WITH ELBOW O/H BOOM MAGNUM
11	SCA039332	1	BOOM HOOK BACKING PLATE (ROSMECH)

Overhead boom - tensioner - right hand



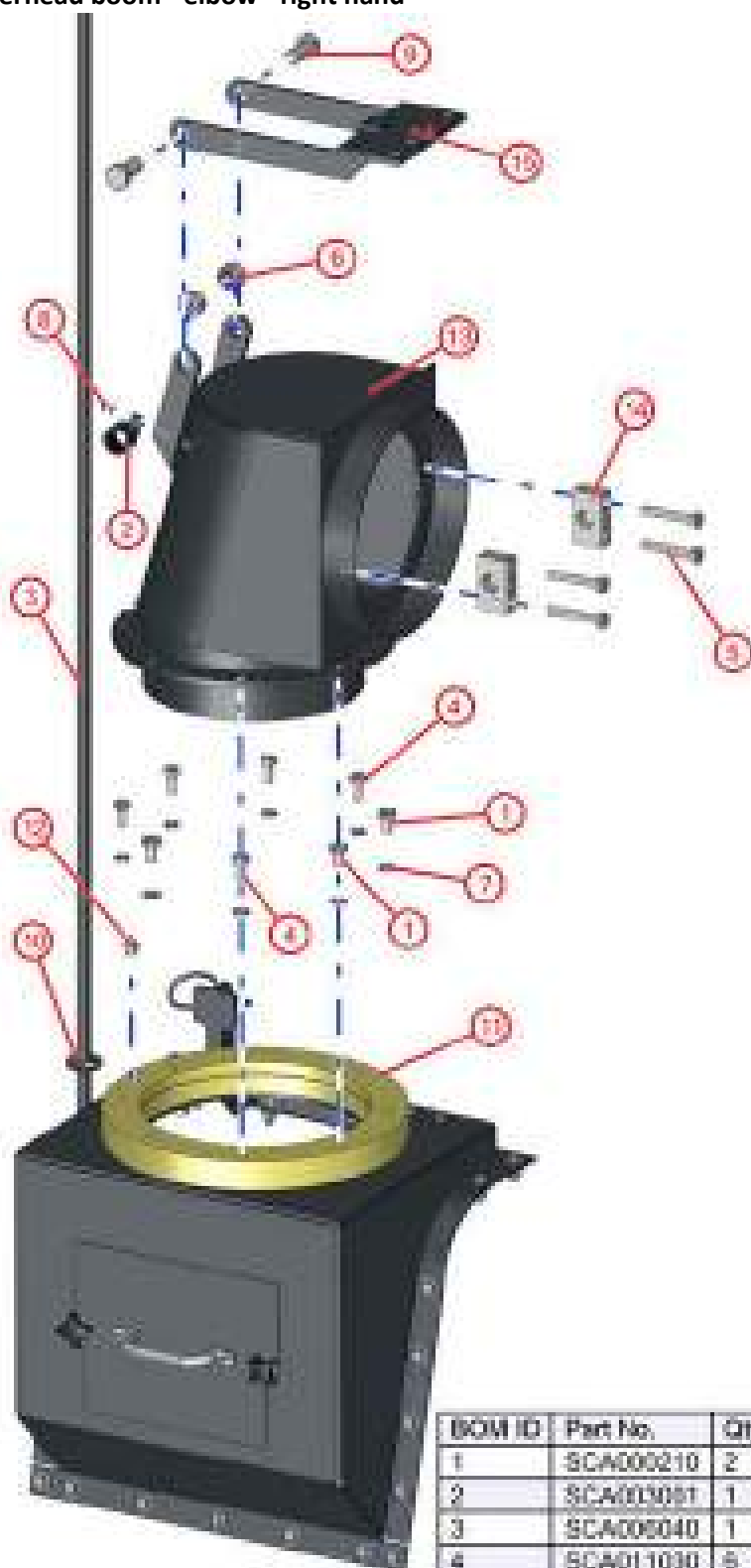
BOM ID	Part No.	Qty	Description
1	SCA011053	2	F.HEX HT SETSCREW M12 X 35
2	SCA011060	3	F.M16 T NYLOC NUT
3	SCA011077	2	F.M12 T NYLOC NUT
4	SCA011135	1	F.PL WASHER M16 FORM C
5	SCA011141	2	F.HEX BOLT M16 X 35
6	SCA013793	1	BOOM ELBOW
7	SCA013801	1	BRKT SPRING ANCHOR
8	SCA013802	1	BRKT TENSIONER ANCHOR
9	SCA013804	1	TENSIONER - BOOM
10	SCA013805	4	SPRING 800 LG
11	SCA036099	2	TENSIONER CLAMP O/H BOOM
12	SCA036102	1	SUCTION PIPE WITH ELBOW O/H BOOM M15 "C" 5.5
13	SCA036851	1	SUCTION PIPE WITH ELBOW O/H BOOM MAGNUM
14	SCA044107	1	CUFF - BOOM PIVOT

Overhead boom - flexible coupling - right hand



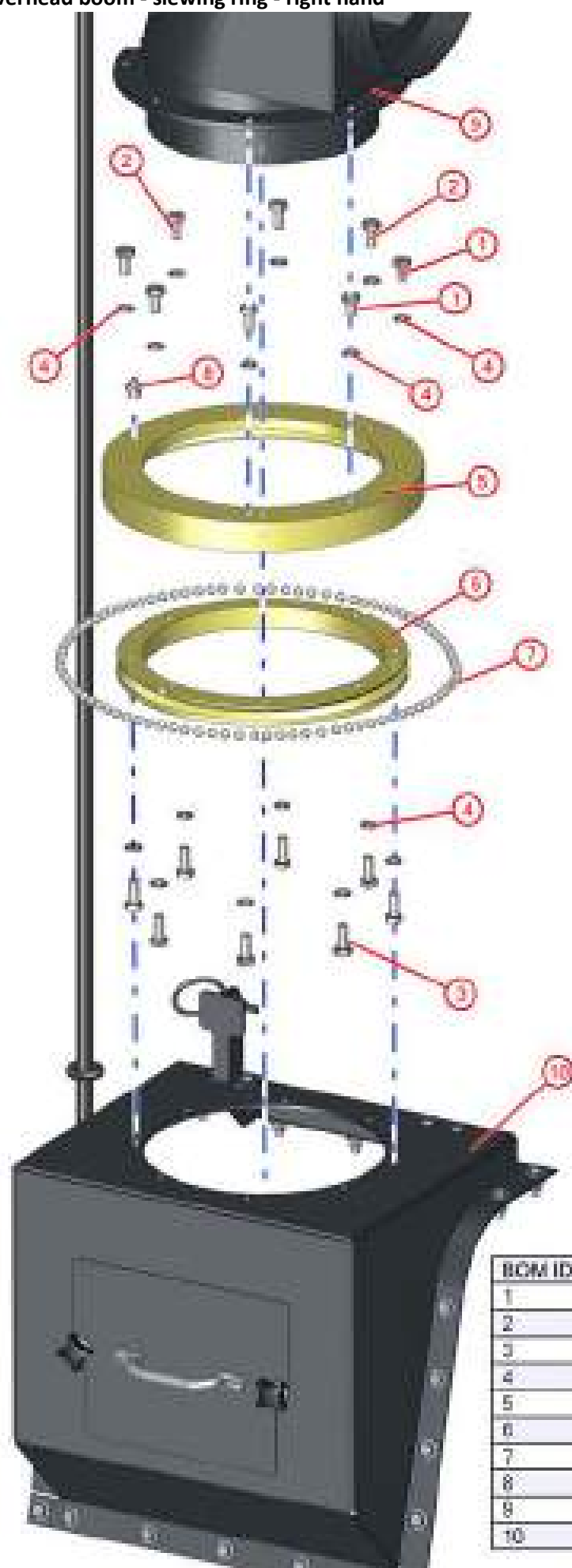
BOM ID	Part No.	Qty	Description
1	SCA000263	6	F.88 M8 T NYLOC NUT
2	SCA011035	4	F. HEX HT BOLT M10 X 60
3	SCA012933	2	JUBILEE CLIP No 10.50 (235 - 267)
4	SCA013793	1	BOOM ELBOW
5	SCA013798	2	PIVOT BLOCK
6	SCA036102	1	SUCTION PIPE WITH ELBOW O/H BOOM MIS 'C' S.S
7	SCA036174	1	BOOM PIVOT O/H BOOM 2308
8	SCA036551	1	SUCTION PIPE WITH ELBOW O/H BOOM MAGNUM
9	SCA044107	1	CUFF - BOOM PIVOT

Overhead boom - elbow - right hand



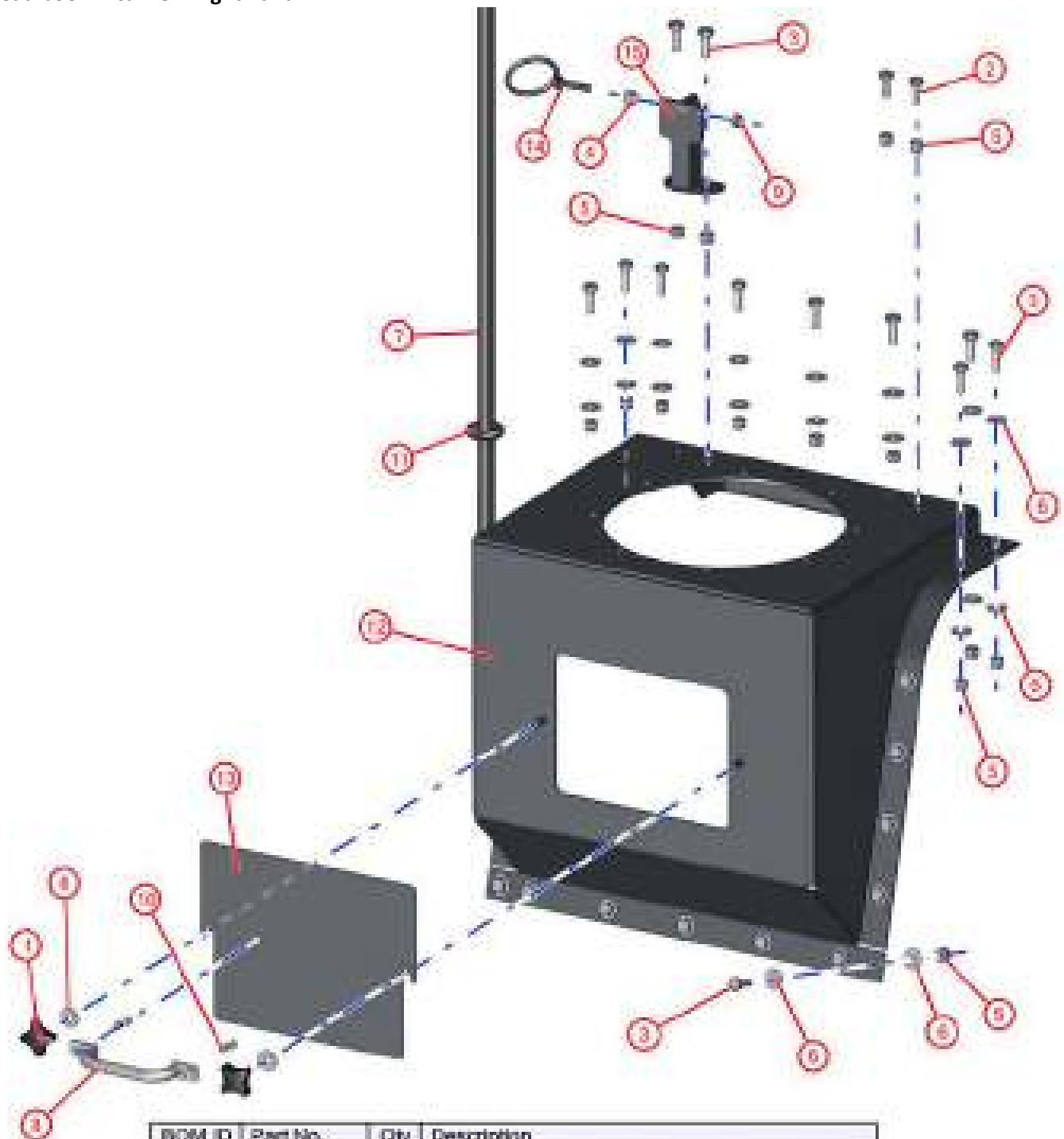
BOOM ID	Part No.	Qty	Description
1	SCA000210	2	F.M10 X 16 HEX BOLT
2	SCA003091	1	P.CLIP 22ID RUBBER INS
3	SCA005040	1	P.NYLON MULTI-CORE TUBING 6MM X 4 WAY
4	SCA011030	6	F.HEX HT SETSCREW M10 X 20
5	SCA011036	4	F. HEX HT BOLT M10 X 60
6	SCA011050	2	F.M16 T. NYLOC NUT
7	SCA011095	8	F.SPRING WASHER M10
8	SCA011131	1	F.SEAL BLIND RIVET 4.8x18
9	SCA011141	2	F.HEX BOLT M16 X 35
10	SCA012542	1	GROMMET 1"
11	SCA013788	1	SLEW RING - OUTER
12	SCA013792	1	GREASE NIPPLE 1/4" BSP
13	SCA013793	1	BOOM ELBOW
14	SCA013798	2	PIVOT BLOCK
15	SCA013891	1	BRKT SPRING ANCHOR

Overhead boom - slewing ring - right hand



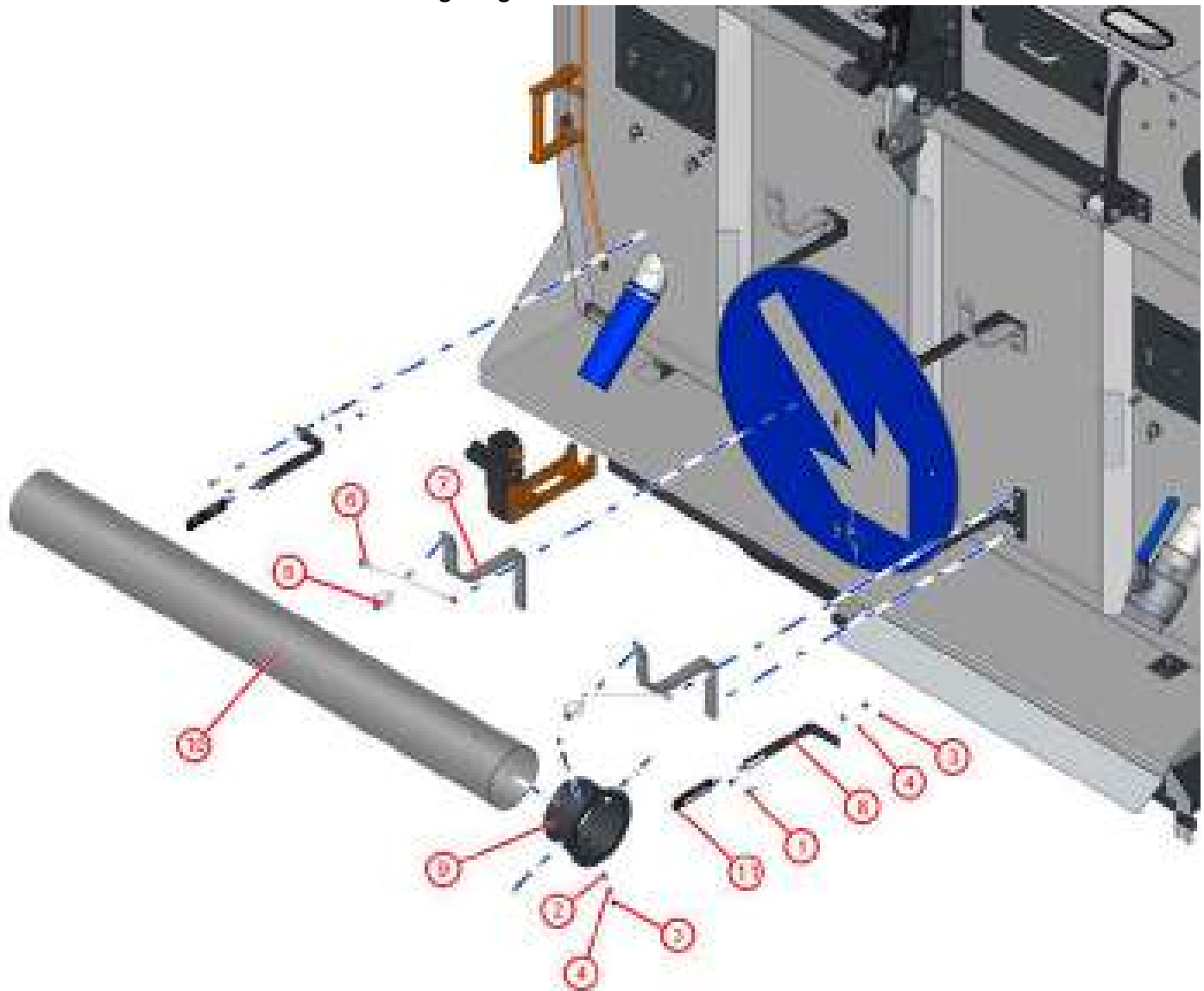
BOM ID	Part No.	Qty	Description
1	SCA000210	2	F.M10 X 16 HEX BOLT
2	SCA011030	6	F.HEX HT SETSCREW M10 X 20
3	SCA011031	8	F.HEX HT SETSCREW M10 X 25
4	SCA011096	16	F.SPRING WASHER M10
5	SCA013788	1	SLEW RING - OUTER
6	SCA013789	1	SLEW RING - INNER
7	SCA013791	62	BALL 10MM STEEL (BOOM)
8	SCA013792	1	GREASE NIPPLE 1/4\" BSP
8	SCA013793	1	BOOM ELBOW
10	SCA032160	1	OVERHEAD BOOM CARRIER

Overhead boom - carrier - right hand



BOM ID	Part No.	Qty	Description
1	SCA000248	2	F.M8 GRIP NUT WITH BRASS INSERT
2	SCA000256	2	F.SS HEX SETSCREW M8 X 20
3	SCA000257	26	F.SS HEX SETSCREW M8 X 25
4	SCA000262	1	F.SS HEX FULL NUT M8
5	SCA000263	28	F.SS M8 T NYLOC NUT
6	SCA000264	50	F.SS P/WASHER M8 FORM C
7	SCA000400	1	F.NYLON MULTI-CORE TUBING 6MM X 4 WAY
8	SCA010502	1	PULL HANDLE
9	SCA011073	1	F.M8 T NYLOC NUT
10	SCA011124	4	F.BOND RIVET 4.0MM X 10
11	SCA012542	1	ORONMET 1"
12	SCA032160	1	OVERHEAD BOOM CARRIER
13	SCA032351	1	ACCESS COVER BOOM CARRIER
14	SCA033022	1	HOSE RING FRONT BRUSH MINOR
15	SCA039737	1	DH BOOM CARRIER STOP BRKT

Overhead boom - extension tube and stowage - right hand



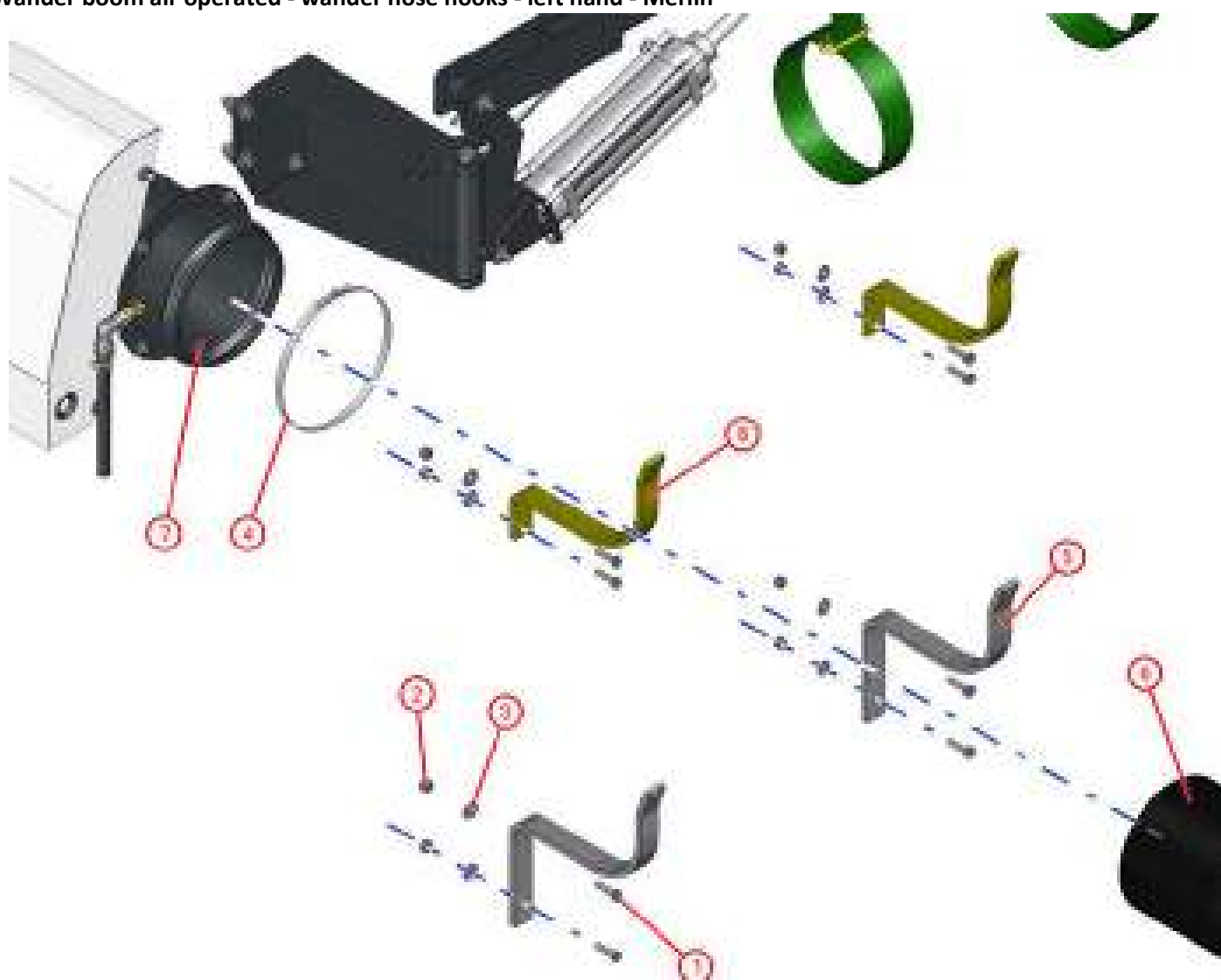
BCM ID	Part No.	Qty	Description
1	SCA000252	4	F SS HEX SETSCREW M6 X 20
2	SCA000373	4	F M6X16 SKT DOME HEAD SCREW ST-ST
3	SCA011071	8	F M6 T NYLOC NUT
4	SCA011090	8	F PWASHER M6 FORM C
5	SCA013507	2	LINCH PIN & CHAIN MAINSCREEN
6	SCA020711	2	CABLE LEASH
7	SCA022747	2	WANDER PIPE HOOK
8	SCA026239	2	SUBFRAME BRKT MAG PIPE WORK
9	SCA033403	1	BOOM TUBE COUPLING
10	SCA034551	1	ALUMINIUM TUBE OH BOOM TUBE COUPLING
11	SCA040032	2	DOOR HANDLE SLEEVE

Wander boom air operated - wander hose and tubes - left hand - Merlin



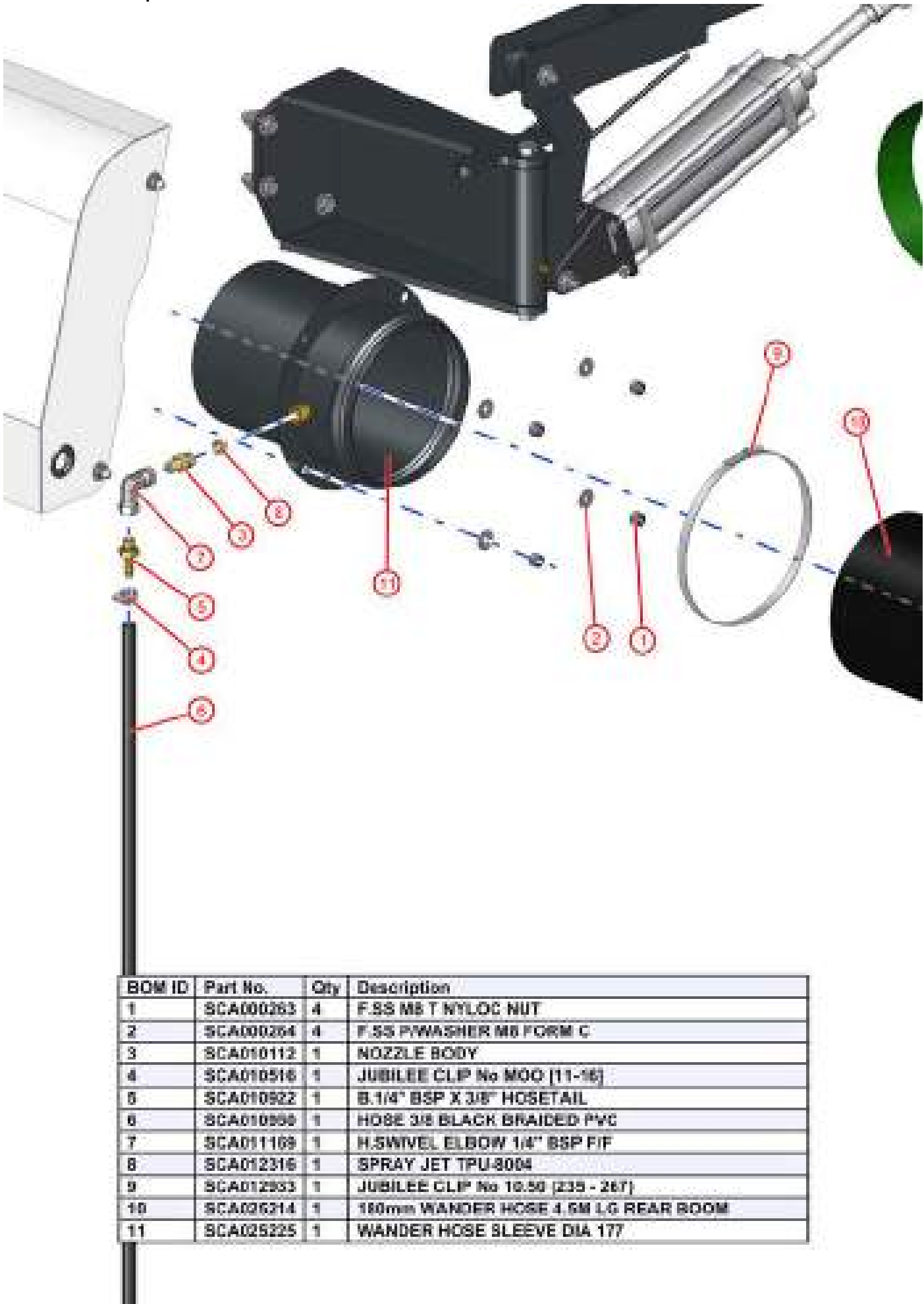
BOM ID	Part No.	Qty	Description
1	SCA000590	4	F.BUT HD SKT SCREW M6X16 PLATED
2	SCA000253	4	F.SS M6 T NYLOC NUT
3	SCA000254	4	F.SS PWASHER M6 FORM C
4	SCA012933	2	JUBILEE CLIP No 10-50 (235 - 267)
5	SCA025214	1	180mm WANDER HOSE 4.5M LG REAR BOOM
6	SCA025217	1	SUCTION TUBE 180 (7.5")
7	SCA025225	1	WANDER HOSE SLEEVE DIA 177
8	SCA026808	1	TUBE - BOOM EXTENSION KIT
9	SCA031214	1	REDUCING COLLAR - GULLEY EXT.TUBE
10	SCA040670	1	ASSY WANDER HOSE HANDLE (180 DIA)

Wander boom air operated - wander hose hooks - left hand - Merlin



BOM ID	Part No.	Qty	Description
1	SCA000258	8	F.SS HEX SETSCREWS M8 X 30
2	SCA000263	8	F.SS M8 T NYLOC NUT
3	SCA000264	8	F.SS PWASHER M8 FORM C
4	SCA012933	1	JUBILEE CLIP No 10.50 (235 - 267)
5	SCA022747	2	WANDER PIPE HOOK
6	SCA025214	1	180mm WANDER HOSE 4.5M LG REAR BOOM
7	SCA025225	1	WANDER HOSE SLEEVE DIA 177
8	SCA030808	2	WANDER BOOM EXT HOOK

Wander boom air operated - wander hose sleeve - left hand - Merlin



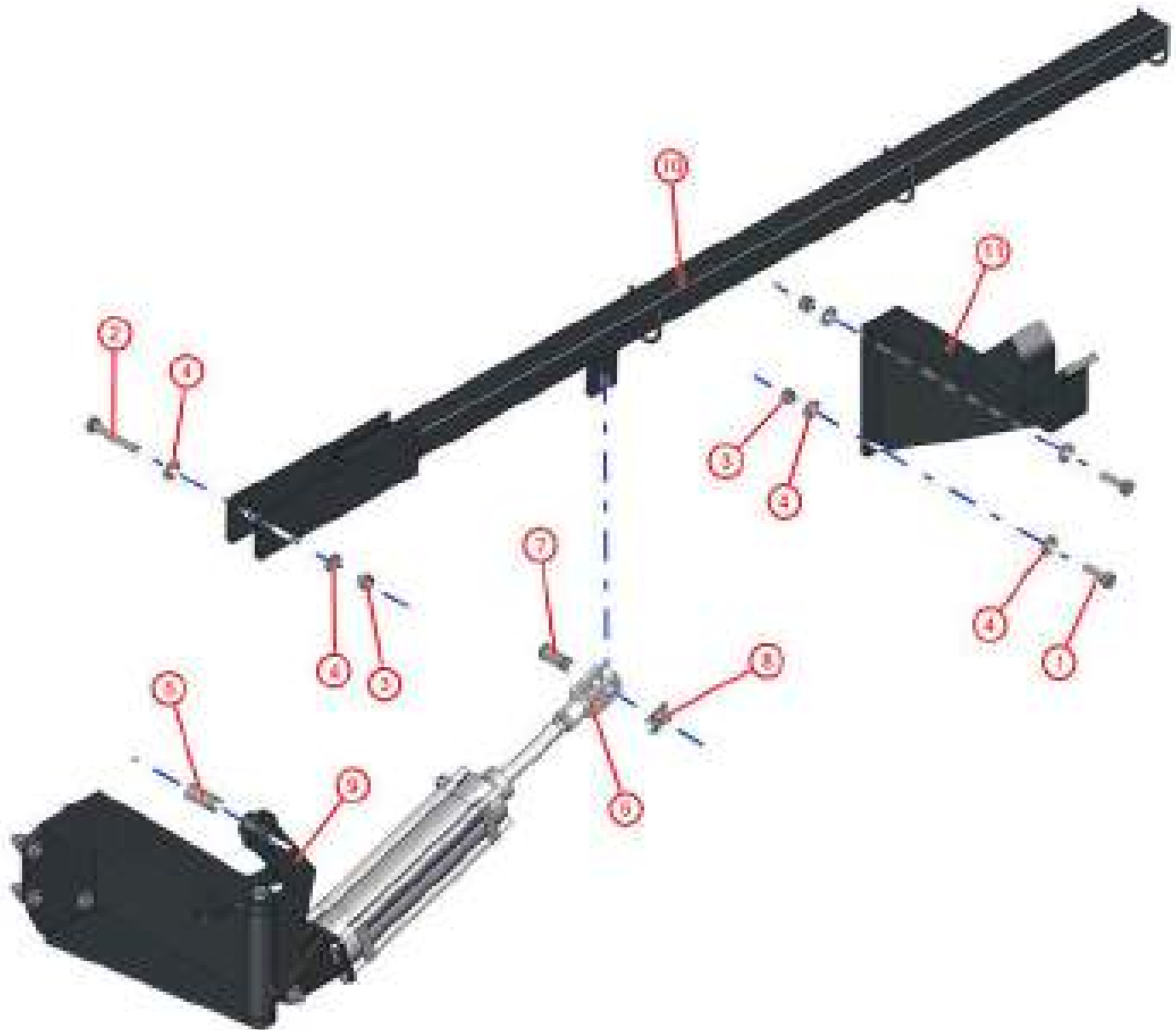
BOM ID	Part No.	Qty	Description
1	SCA000263	4	F.SS M8 T NYLOC NUT
2	SCA000264	4	F.SS PWASHER M8 FORM C
3	SCA010112	1	NOZZLE BODY
4	SCA010516	1	JUBILEE CLIP No M00 (11-16)
5	SCA010922	1	B.1/4" BSP X 3/8" HOSETAIL
6	SCA010966	1	HOSE 3/8 BLACK BRAIDED PVC
7	SCA011169	1	H.SWIVEL ELBOW 1/4" BSP F/F
8	SCA012316	1	SPRAY JET TPU-8004
9	SCA012933	1	JUBILEE CLIP No 10.50 (235 - 267)
10	SCA026214	1	180mm WANDER HOSE 4.5M LG REAR BOOM
11	SCA025225	1	WANDER HOSE SLEEVE DIA 177

Wander boom air operated - wander hose straps - left hand - Merlin



BOM ID	Part No.	Qty	Description
1	SCA010606	3	CARABINER
2	SCA025235	3	WANDER HOSE STRAP
3	SCA027926	1	HOSE SUPPORT BOOM AIR OPERATED

Wander boom air operated - wander boom and stowage - left hand - Merlin

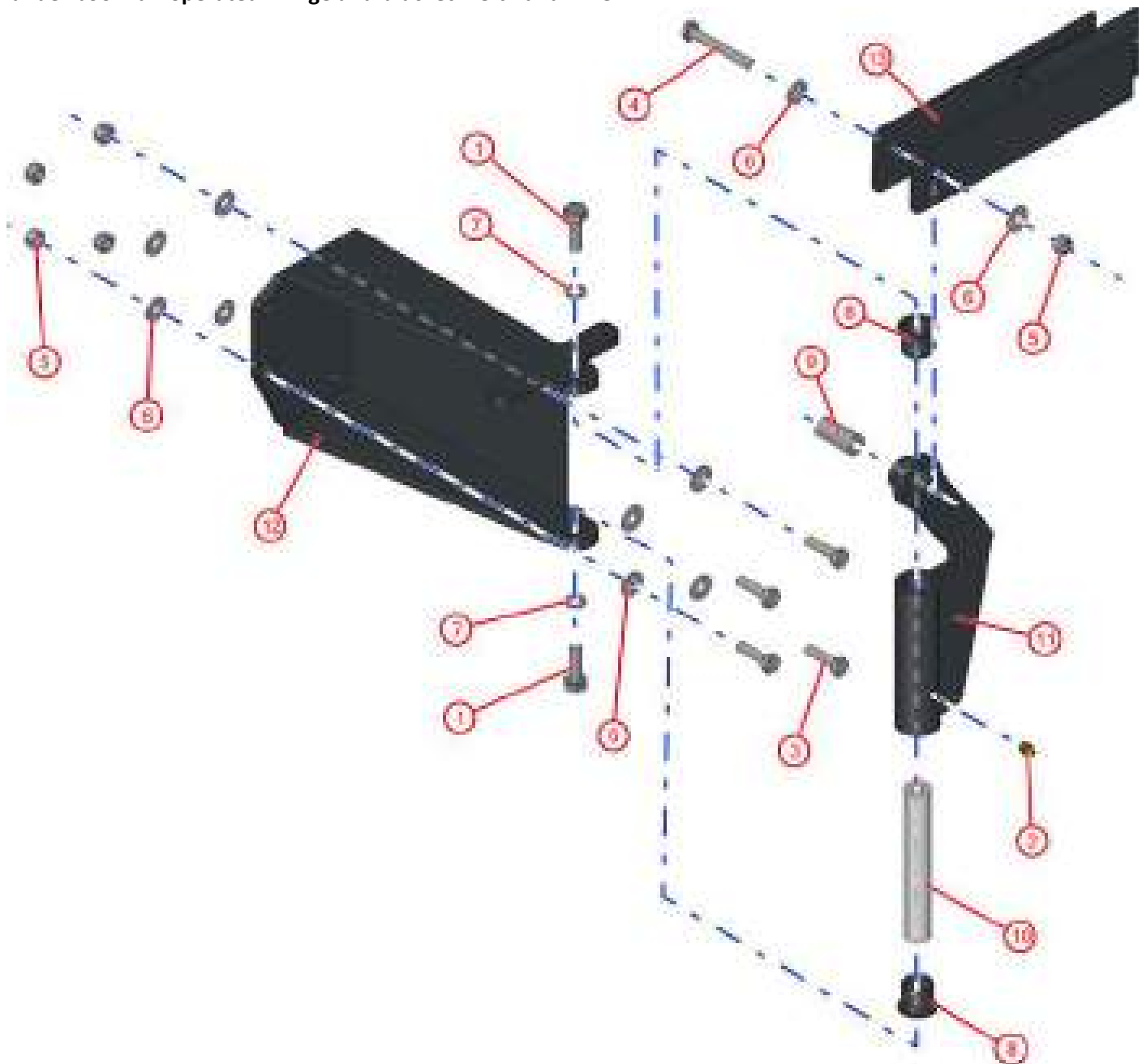


BOM ID	Part No.	Qty	Description
1	SCA011033	2	F.HEX HT SETSCREW M10 X 35
2	SCA011043	1	F.HEX HT BOLT M10 X 70
3	SCA011075	3	F.M10 T NYLOC NUT
4	SCA011094	6	F.PWASHER M10 FORM C
5	SCA014399	1	SPACER 20 X 10.5 X 41 LG
6	SCA020299	1	CLEVIS PNEUMATIC M16 X 1.5
7	SCA022673	1	CLEVIS PIN (TURNED)
8	SCA022674	1	CLIP RETAINING M16
9	SCA025219	1	WANDER HOSE HINGE
10	SCA027926	1	HOSE SUPPORT BOOM AIR OPERATED
11	SCA027929	1	STOWAGE BRKT AIR OPERATED BOOM

BOM ID	Part No.	Qty	Description
1	SCA000872	1	F. HEX HT SETSCREW
2	SCA000270	1	F. SS P/WASHER M10
3	SCA011011	4	F. HEX HT SETSCREW
4	SCA011043	1	F. HEX HT BOLT M10 X
5	SCA011075	2	F. M10 T NYLOC NUT

Suction

Wander boom air operated - hinge and bracket - left hand - Merlin



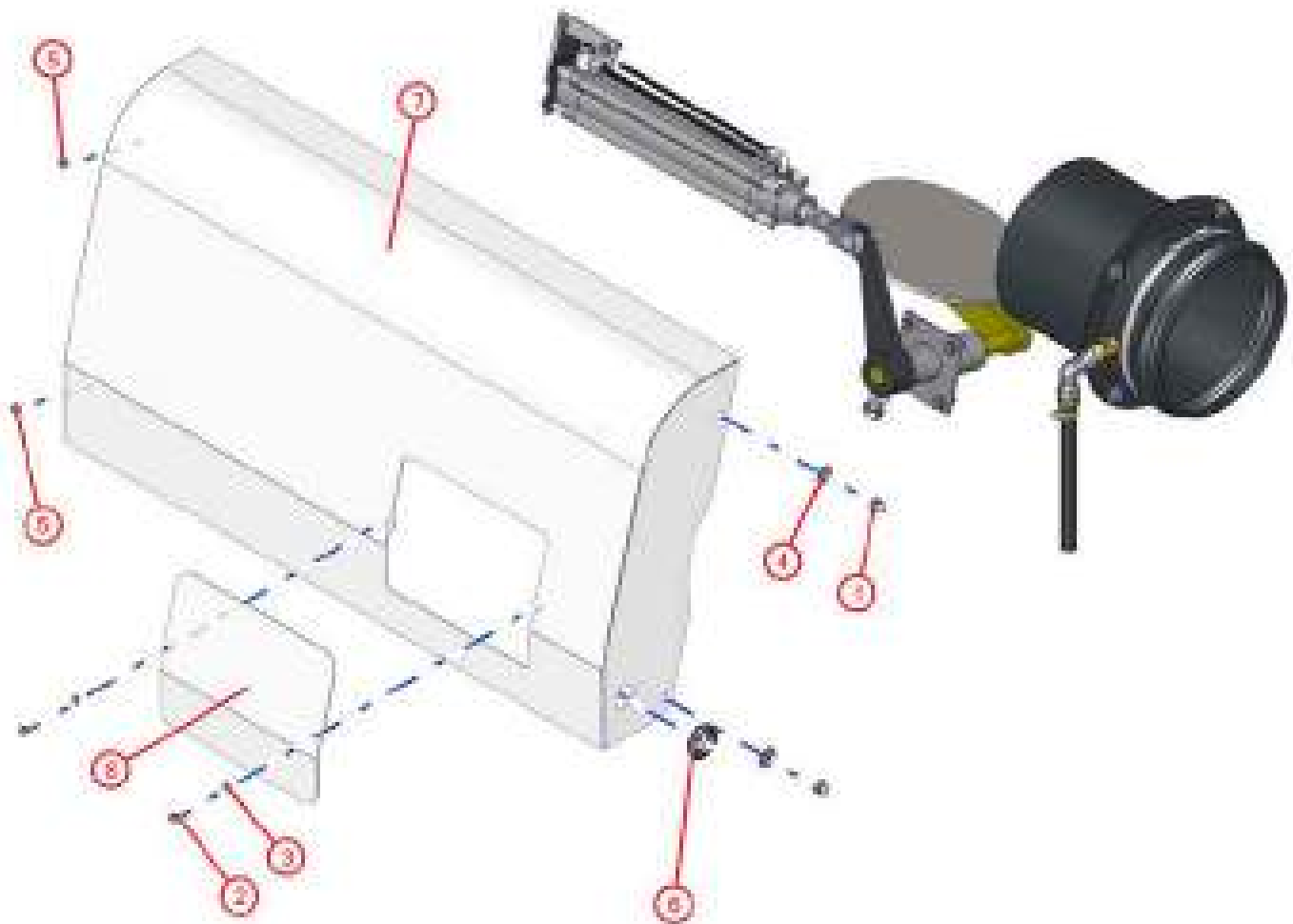
BOM ID	Part No.	Qty	Description
1	SCA000285	2	F.88 HEX SET SCREW M12 X 35
2	SCA010903	1	GREASE NIPPLE 1/8" BSP 8TR
3	SCA011033	4	F.HEX HT SETSCREW M10 X 35
4	SCA011043	1	F.HEX HT BOLT M10 X 70
5	SCA011075	5	F.M10 T NYLOC NUT
6	SCA011094	10	F.PLWASHER M10 FORM C
7	SCA011097	2	F.SPRING WASHER M12 RECT SECT 8COIL
8	SCA013663	2	BUSH BRUSH PIVOTS
9	SCA014398	1	SPACER 20 X 18.5 X 41 L3
10	SCA023498	1	HINGE SHAFT ROOM
11	SCA025219	1	WANDER HOSE HINGE
12	SCA025229	1	WANDER HOSE SUPPORT LH
13	SCA027926	1	HOSE SUPPORT ROOM AIR OPERATED

Wander boom air operated - controls - left hand - Merlin



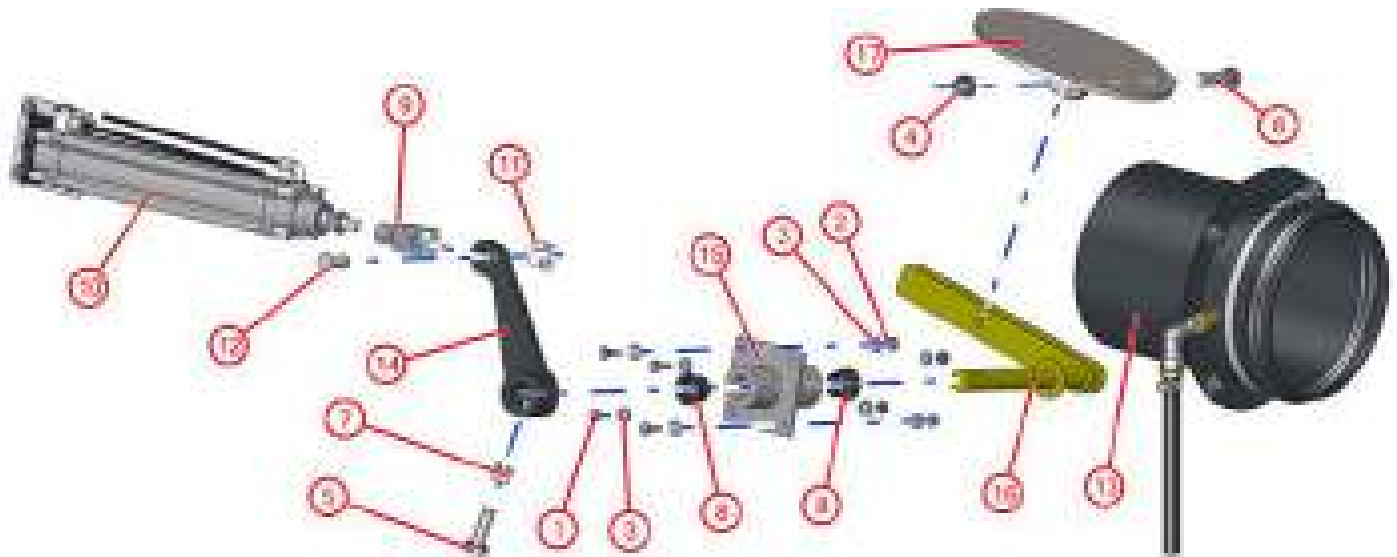
BCM ID	Part No.	Qty	Description
1	SCA011071	2	F.M6 T NYLOC NUT
2	SCA011007	3	F.HEX HT SETSCREW M6 X 25
3	SCA011000	2	F.P.WASHER M6 FORM C
4	SCA028267	1	3 BUTTON PENDANT WITH SPIRAL CABLE
5	SCA028305	1	PENDANT HOLSTER REAR AIR OPERATED BOOM
6	SCA036919	1	WIRING LOOM V3 AIR OP REAR BOOM

Wander boom air operated - blanking cover - left hand - Merlin



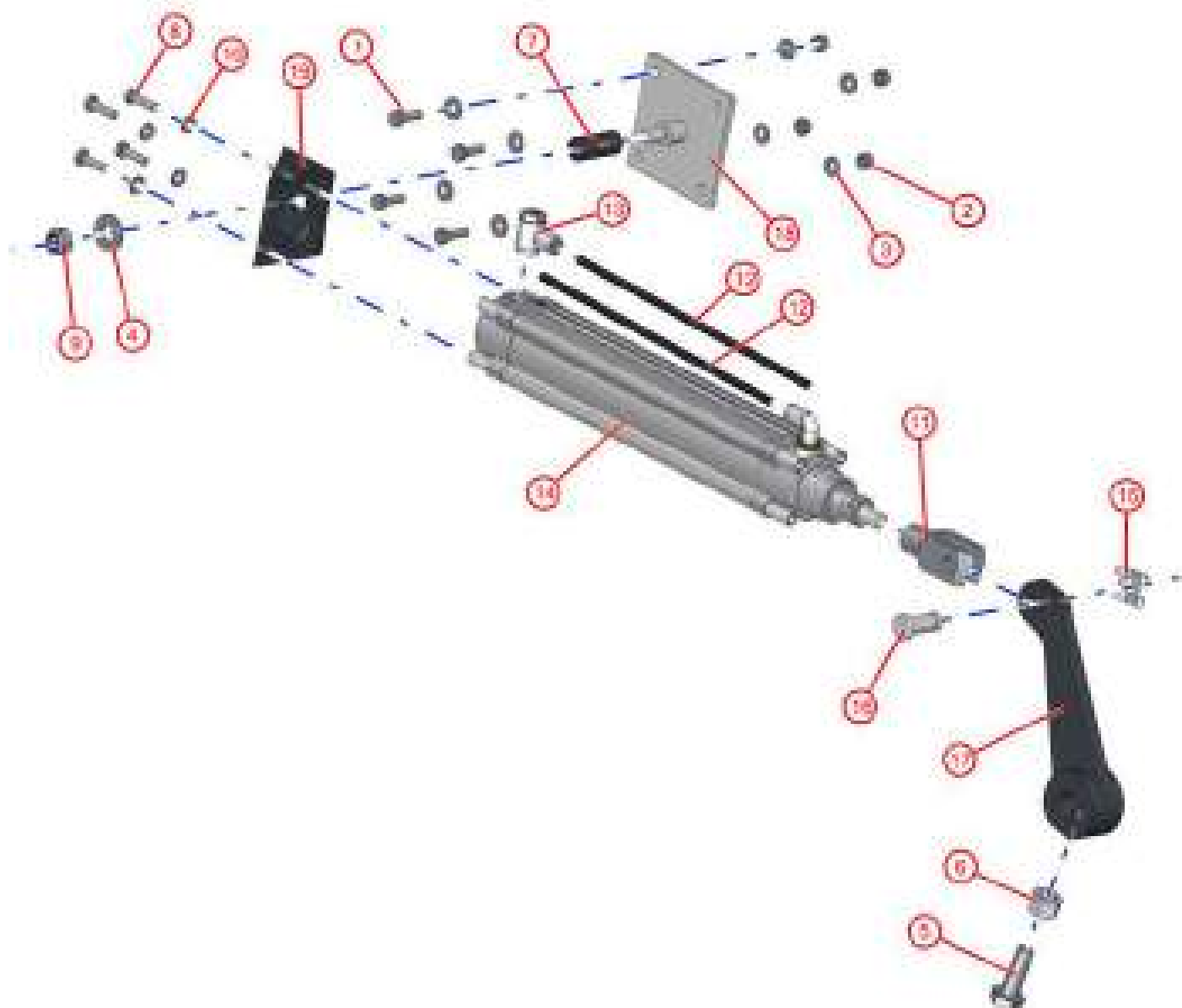
BOM ID	Part No.	Qty	Description
1	SCA000889	2	M8 DOME NUT
2	SCA000897	2	F.HEX BOLT M5 X 12
3	SCA000411	3	F.M5 S/COIL SPRING WASHER
4	SCA011092	2	F.PIWASHER M8 FORM C
5	SCA011131	2	F.SEAL BLIND RIVET 4.8x18
6	SCA012542	1	GROMMET 1"
7	SCA025885	1	COVER LH RAM W/BOOM BLANKING MERLIN
8	SCA030674	1	INSP.PLATE COVER RAM WHOSE BLANK MERLIN

Wander boom air operated - blanking flap - left hand - Merlin



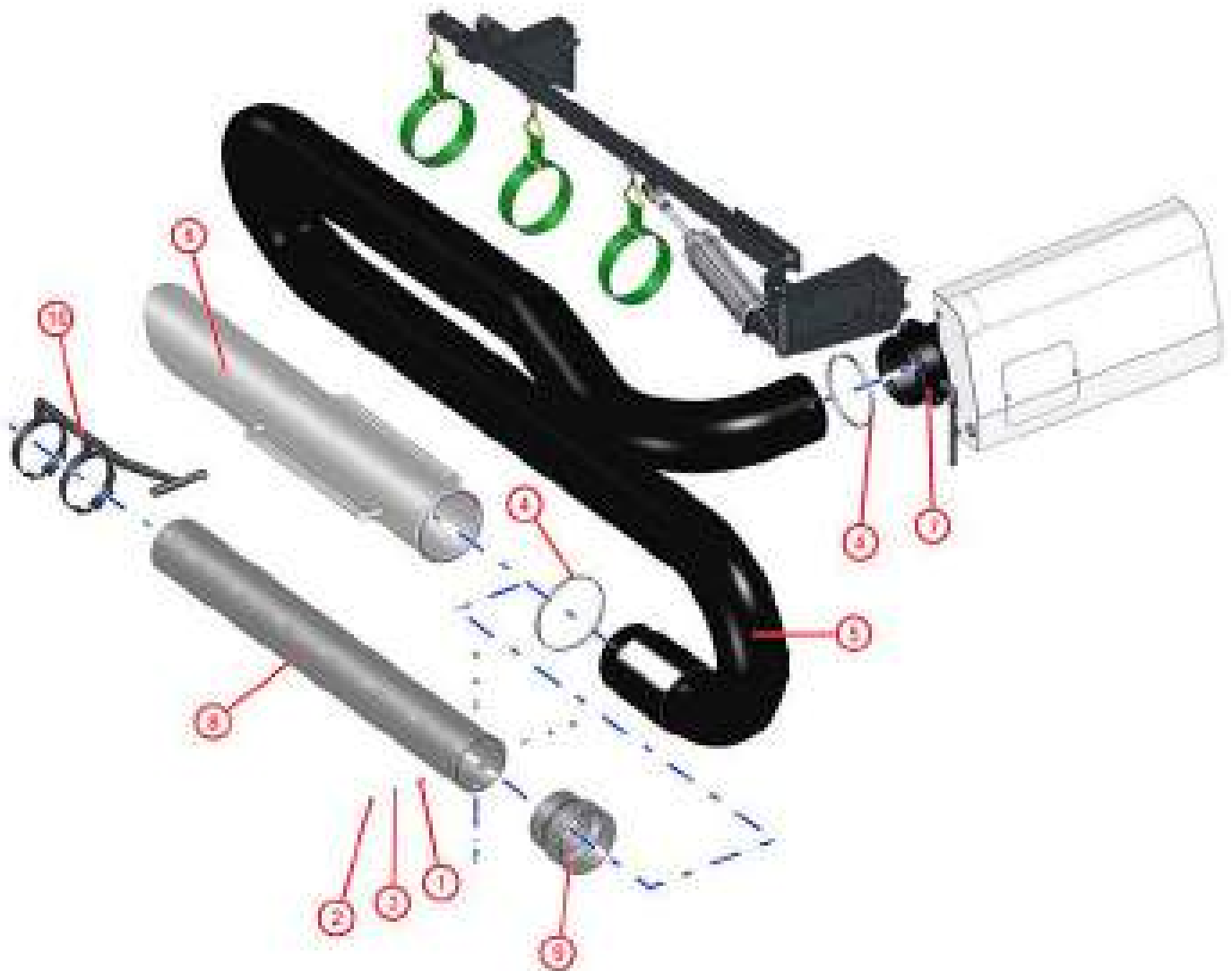
BOM ID	Part No.	Qty	Description
1	SCA000252	4	F.SS HEX SETSCREW M6 X 20
2	SCA000253	3	F.SS M6 T NYLOC NUT
3	SCA000254	8	F.SS PWASHER M6 FORM C
4	SCA000275	1	F.SS M12 T NYLOC NUT
5	SCA000276	1	F.SS HEX SETSCREW M12 X 1.25 X 35
6	SCA000276	1	F.SS HEX SETSCREW M12 X 40
7	SCA000279	1	F.SS HEX FULL NUT M12 X 1.25 FINE
8	SCA013488	2	BUSH
9	SCA014469	1	CLEVIS, AIR CYLINDER, M12.
10	SCA021467	1	P.PNEUMATIC CYLINDER 40 X 200
11	SCA023269	1	SAFTY FASTENER 12
12	SCA023270	1	CLEVIS PIN 12
13	SCA025225	1	WANDER HOSE SLEEVE DIA 177
14	SCA025254	1	FLAP LEVER WANDER HOSE
15	SCA025471	1	PIVOT TUBE WANDER HOSE FLAP
16	SCA025476	1	FLAP ARM WANDER HOSE
17	SCA025487	1	WANDER HOSE FLAP MAJOR

Wander boom air operated - blanking pneumatic ram - left hand - Merlin



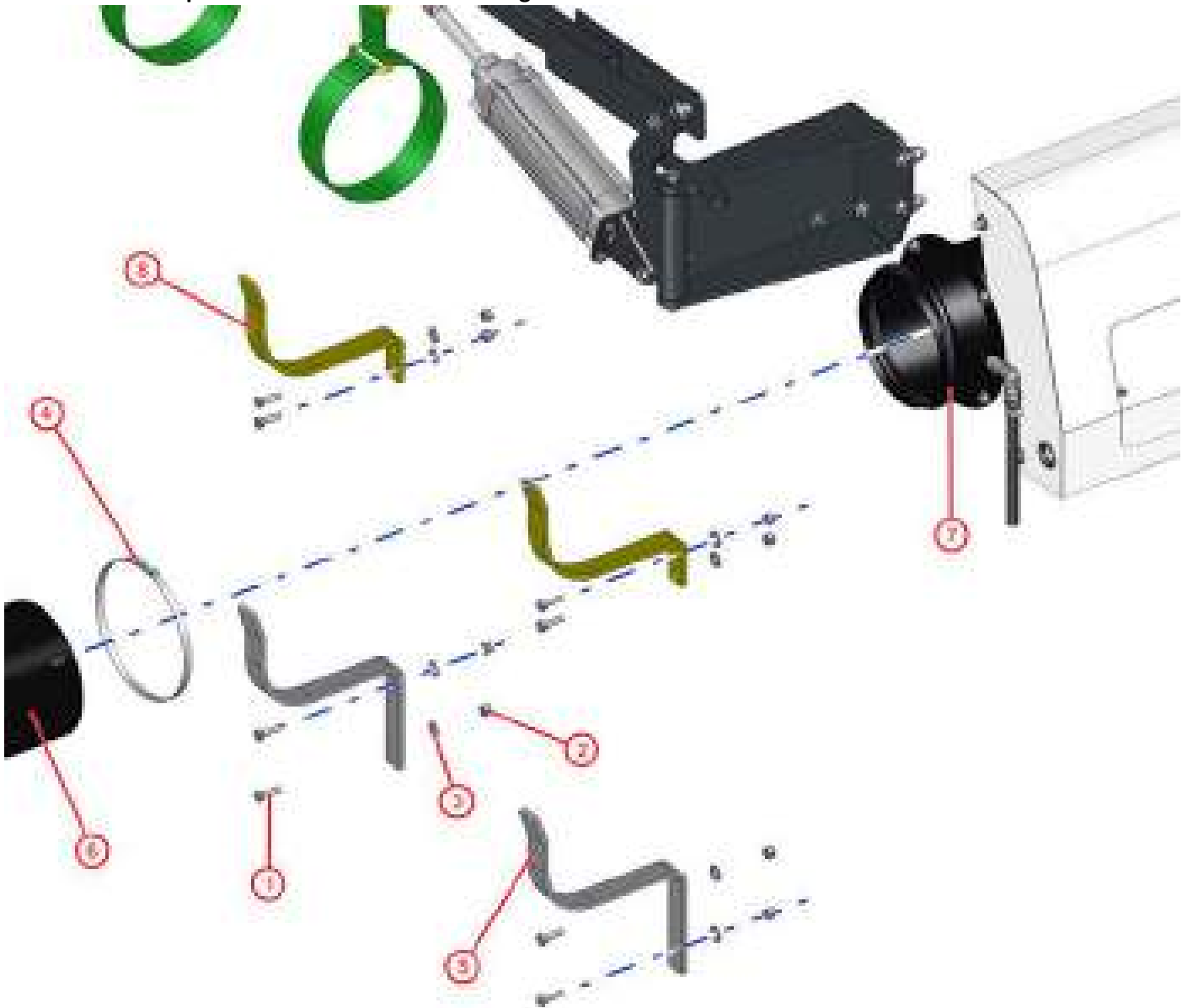
BOM ID	Part No.	Description	Qty
1	SCA000252	F SS HEX SETSCREW M6 X 20	4
2	SCA000253	F SS M6 T NYLOC NUT	4
3	SCA000254	F SS PWASHER M6 FORM C	8
4	SCA000270	F SS PWASHER M10 FORM G	1
5	SCA000276	F SS HEX SETSCREW M12 X 1.25 X 35	1
6	SCA000279	F SS HEX FULL NUT M12 X 1.25 FINE	1
7	SCA010950	HOSE 3/8 BLACK BRADED PVC	1
8	SCA011067	F HEX HT SETSCREW M6 X 20	4
9	SCA011075	F M10 T NYLOC NUT	1
10	SCA011081	F SPRING WASHER M6 RECT SECT 8/COIL	4
11	SCA014469	CLEVIS, AIR CYLINDER, M12	1
12	SCA014572	P 6MM OD X 1MM WT BLACK AIR PIPE	2
13	SCA021168	P PNEUMATIC FLOW REGULATOR	1
14	SCA021467	P PNEUMATIC CYLINDER 40 X 200	1
15	SCA023269	SAFTY FASTENER 12	1
16	SCA023270	CLEVIS PIN 12	1
17	SCA025254	FLAP LEVER WANDER HOSE	1
18	SCA025524	PIVOT (BOLT ON) RAM - WHOSE FLAP	1
19	SCA030532	AIR RAM MTG BRACKET, WIDESWEEP	1

Wander boom air operated - wander hose and tubes - right hand - Merlin



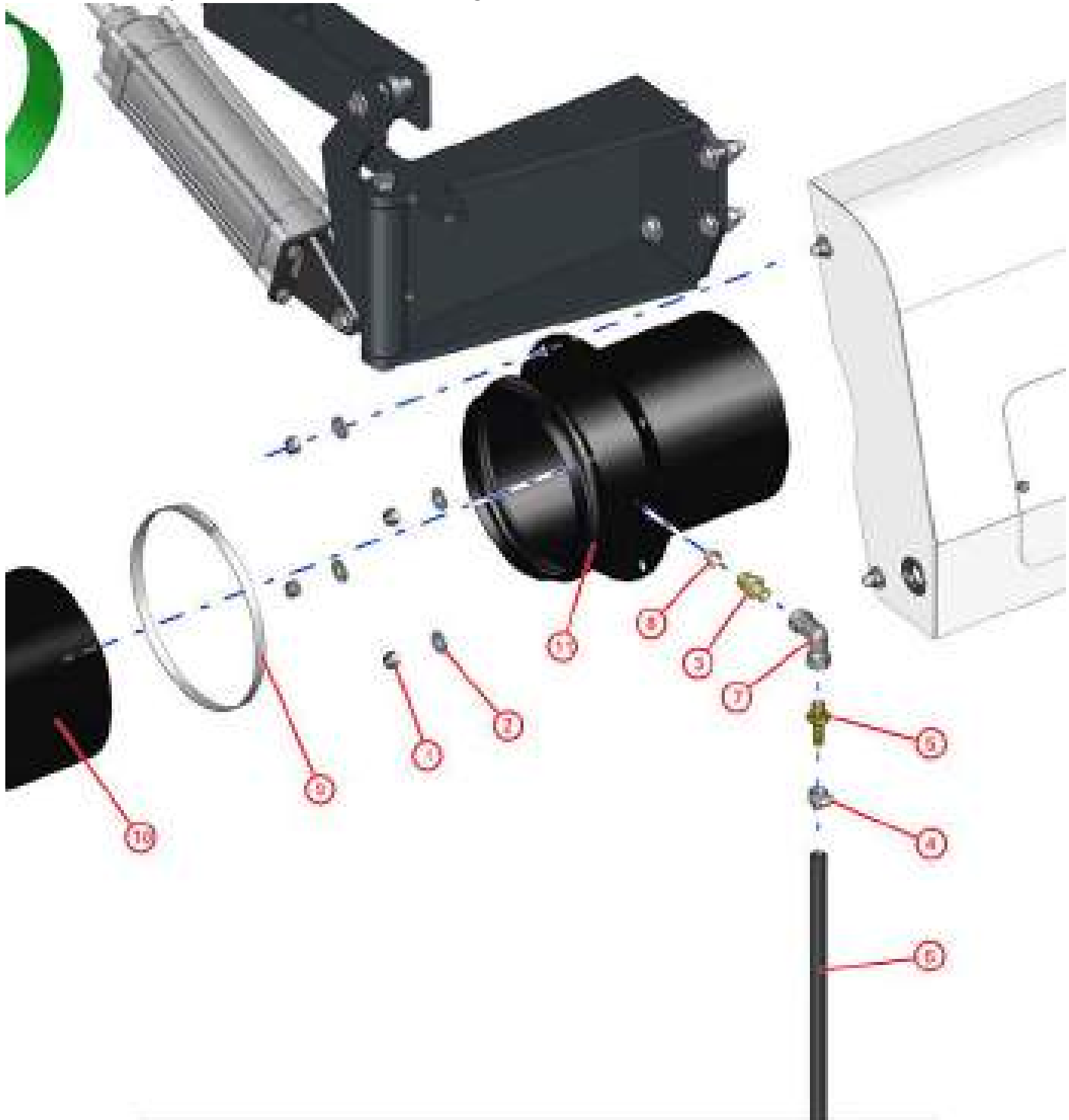
BOM ID	Part No.	Qty	Description
1	SCA000590	4	F BUT HD SKT SCREW M6X16 PLATED
2	SCA000253	4	F.SS M6 T NYLOC NUT
3	SCA000254	4	F.SS P/WASHER M6 FORM C
4	SCA012933	2	JUBILEE CLIP No 10-50 (235 - 267)
5	SCA025214	1	180mm WANDER HOSE 4.5M LG REAR BOOM
6	SCA025217	1	SUCTION TUBE 180 (7.5")
7	SCA025225	1	WANDER HOSE SLEEVE DIA 177
8	SCA026808	1	TUBE - BOOM EXTENSION KIT
9	SCA031214	1	REDUCING COLLAR - GULLEY EXT.TUBE
10	SCA040670	1	ASSY WANDER HOSE HANDLE (180 DIA)

Wander boom air operated - wander hose hooks - right hand - Merlin



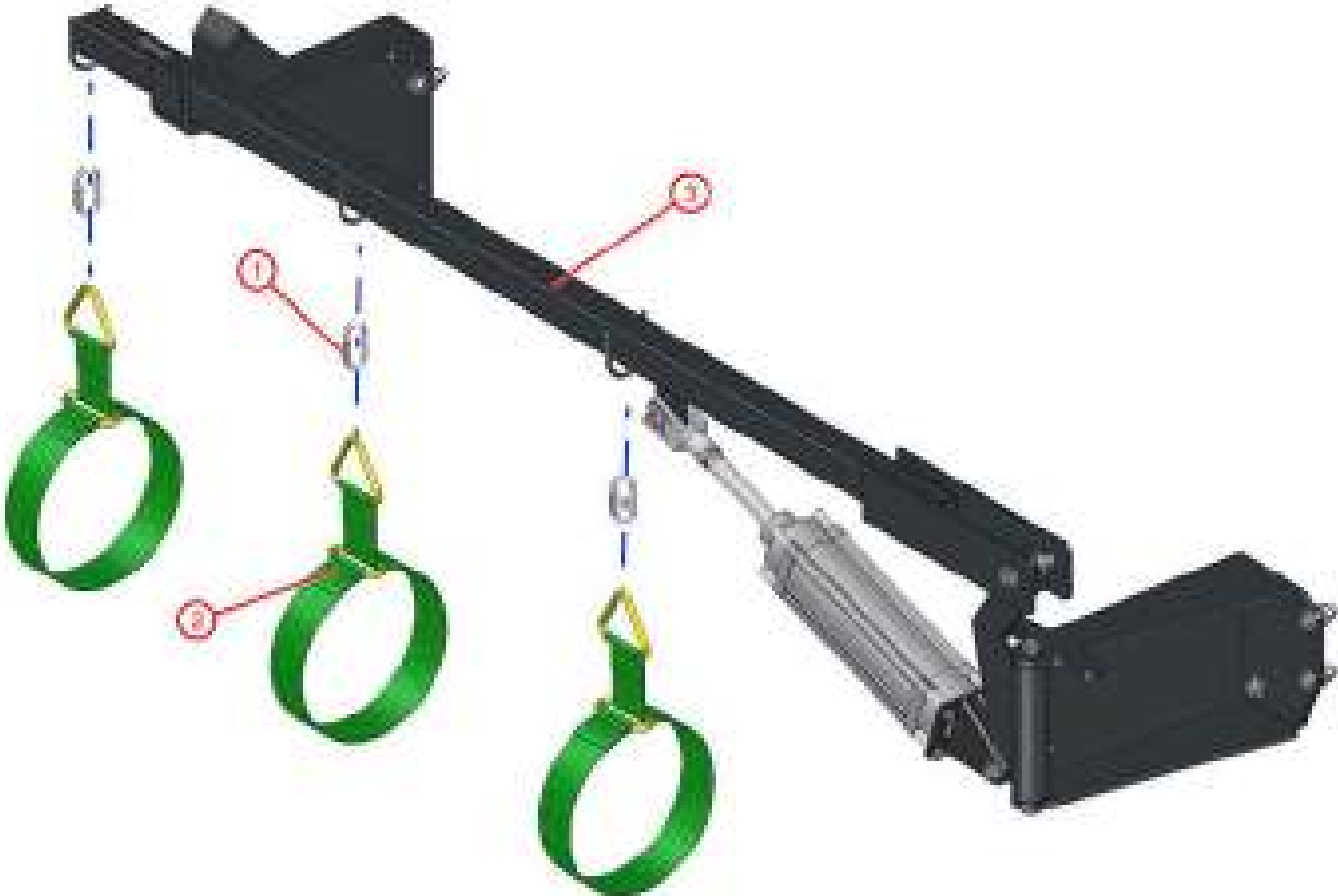
BOM ID	Part No.	Qty	Description
1	SCA000258	8	F.SS HEX SETSCREWS M8 X 30
2	SCA000263	8	F.SS M8 T NYLOC NUT
3	SCA000264	8	F.SS PWASHER M8 FORM C
4	SCA012933	1	JUBILEE CLIP No 10.50 (235 - 267)
5	SCA022747	2	WANDER PIPE HOOK
6	SCA025214	1	180mm WANDER HOSE 4.5M LG REAR BOOM
7	SCA025225	1	WANDER HOSE SLEEVE DIA 177
8	SCA030808	2	WANDER BOOM EXT HOOK

Wander boom air operated - wander hose sleeve - right hand - Merlin



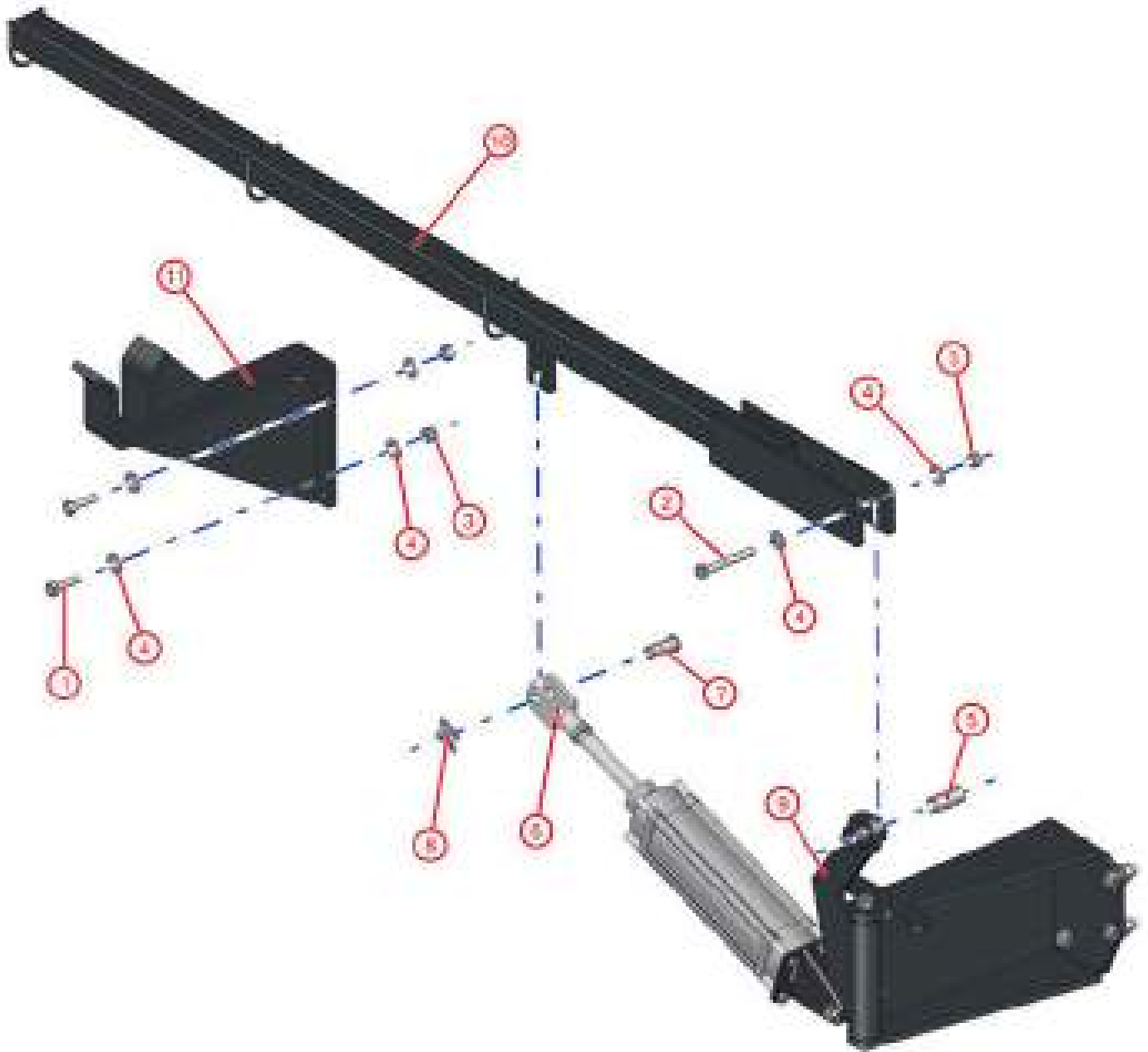
BOM ID	Part No.	Qty	Description
1	SCA000263	4	F.55 M8 T NYLOC NUT
2	SCA000264	4	F.55 PWASHER M8 FORM C
3	SCA010112	1	NOZZLE BODY
4	SCA010516	1	JUBILEE CLIP No M00 (11-16)
5	SCA010922	1	B.1/4" BSP X 3/8" HOSETAIL
6	SCA010966	1	HOSE 3/8 BLACK BRAIDED PVC
7	SCA011169	1	H.5WIVEL ELBOW 1/4" BSP F/F
8	SCA012316	1	SPRAY JET TPU-8004
9	SCA012933	1	JUBILEE CLIP No 10.50 (235 - 267)
10	SCA026214	1	180mm WANDER HOSE 4.5M LG REAR BOOM
11	SCA025225	1	WANDER HOSE SLEEVE DIA 177

Wander boom air operated - wander hose straps - right hand - Merlin



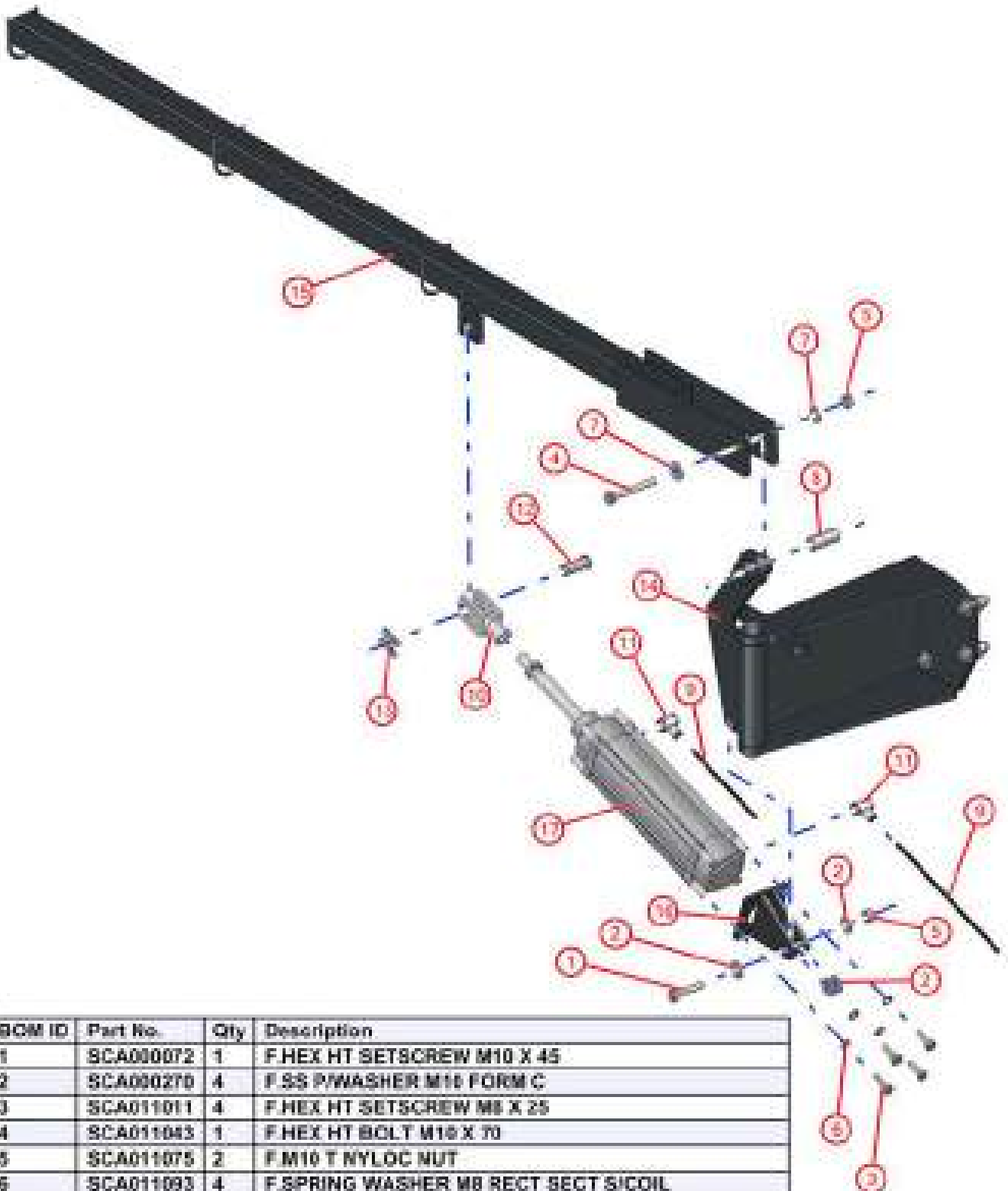
BOM ID	Part No.	Qty	Description
1	SCA010606	3	CARABINER
2	SCA025235	3	WANDER HOSE STRAP
3	SCA027926	1	HOSE SUPPORT BOOM AIR OPERATED

Wander boom air operated - wander boom and stowage - right hand - Merlin



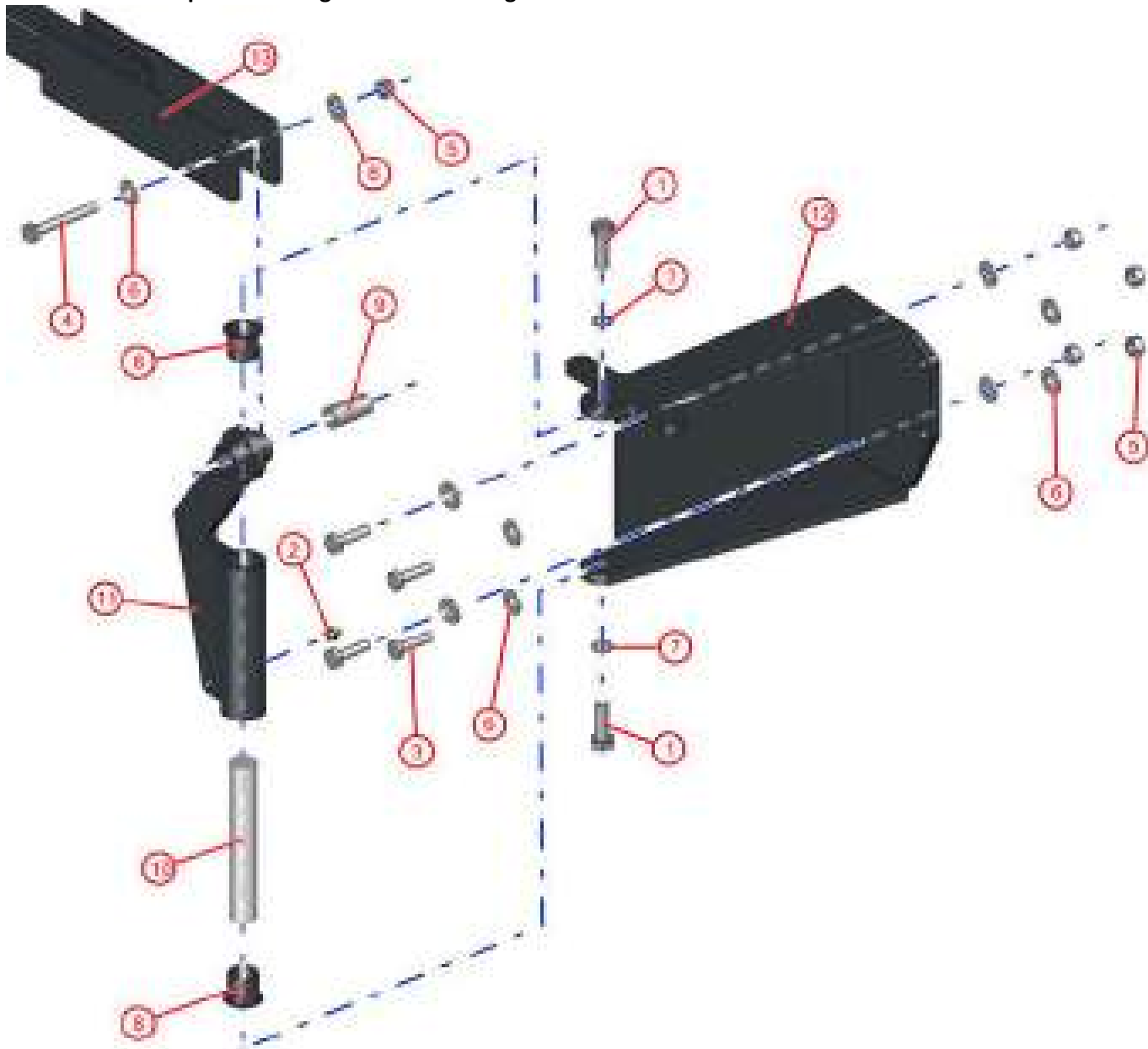
BOM ID	Part No.	Qty	Description
1	SCA011633	2	F.HEX HT SETSCREW M10 X 35
2	SCA011643	1	F.HEX HT BOLT M10 X 70
3	SCA011675	3	F.M16 T NYLOC NUT
4	SCA011694	6	F.PWASHER M10 FORM C
5	SCA014399	1	SPACER 20 X 10.5 X 41 LG
6	SCA020299	1	CLEVIS PNEUMATIC M16 X 1.5
7	SCA022673	1	CLEVIS PIN (TURNED)
8	SCA022674	1	CLIP RETAINING M16
9	SCA025219	1	WANDER HOSE HINGE
10	SCA037926	1	HOSE SUPPORT BOOM AIR OPERATED
11	SCA027929	1	STOWAGE BRKT AIR OPERATED BOOM

Wander boom air operated - pneumatic lift ram - right hand - Merlin



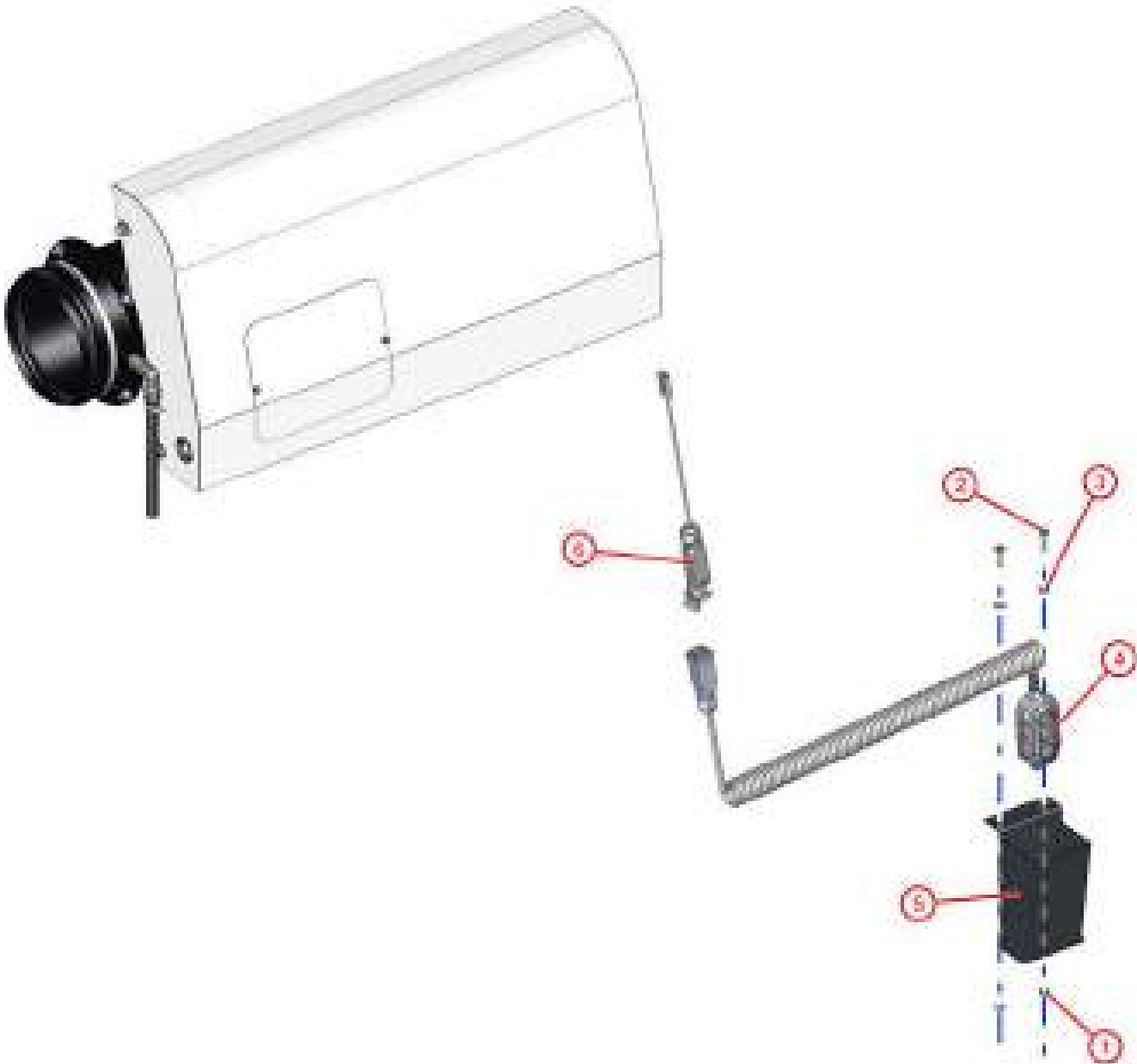
BOG ID	Part No.	Qty	Description
1	SCA000072	1	F HEX HT SETSCREW M10 X 45
2	SCA000270	4	F SS P/WASHER M16 FORM C
3	SCA011011	4	F HEX HT SETSCREW M8 X 25
4	SCA011043	1	F HEX HT BOLT M16 X 70
5	SCA011075	2	F M10 T NYLOC NUT
6	SCA011093	4	F SPRING WASHER M8 RECT SECT S/COIL
7	SCA011094	2	F P/WASHER M10 FORM C
8	SCA014399	1	SPACER 20 X 10.5 X 41 LG
9	SCA014572	2	P 6MM OD X 1MM WT BLACK AIR PIPE
10	SCA020299	1	CLEVIS PNEUMATIC M16 X 1.5
11	SCA021158	2	P PNEUMATIC FLOW REGULATOR
12	SCA022673	1	CLEVIS PIN (TURNED)
13	SCA022674	1	CLIP RETAINING M16
14	SCA025219	1	WANDER HOSE HINGE
15	SCA077926	1	HOSE SUPPORT BOOM AIR OPERATED
16	SCA028305	1	AIR RAM PIVOT BRKT
17	SCA028306	1	P PNEUMATIC CYL 63 X 180

Wander boom air operated - hinge and bracket - right hand - Merlin



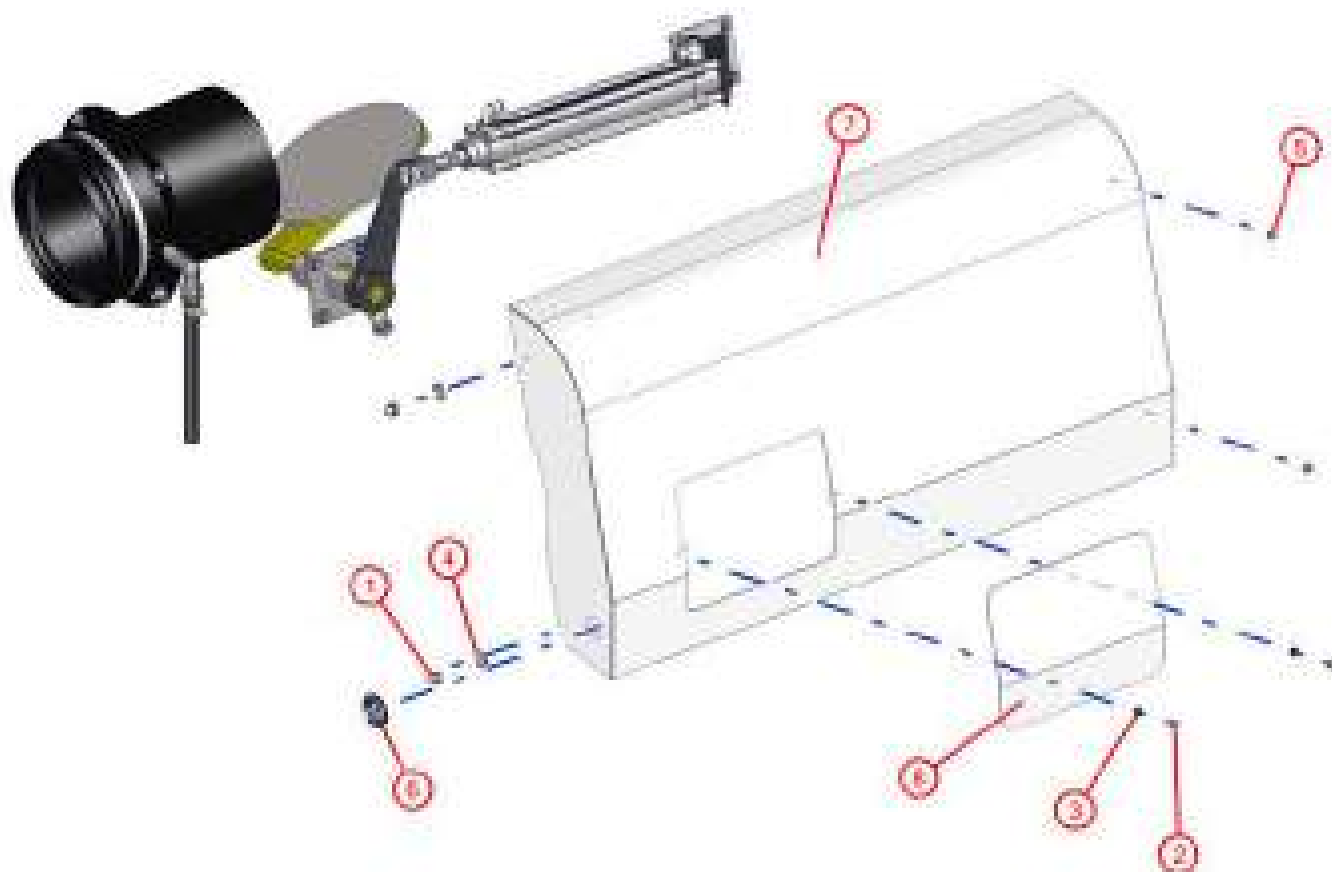
BOM ID	Part No.	Qty	Description
1	SCA000285	2	F SS HEX SET SCREW M12 X 35
2	SCA010903	1	GREASE NIPPLE 1/8" BSP STR
3	SCA011033	4	F HEX HT SETSCREW M10 X 35
4	SCA011043	1	F HEX HT BOLT M10 X 70
5	SCA011075	5	F M10 T NYLOC NUT
6	SCA011094	10	F PWASHER M10 FORM C
7	SCA011097	2	F SPRING WASHER M12 RECT SECT S/COIL
8	SCA013662	2	BUSH BRUSH PIVOTS
9	SCA014399	1	SPACER 20 X 10.5 X 41 LG
10	SCA023499	1	HINGE SHAFT BOOM
11	SCA025219	1	WANDER HOSE HINGE
12	SCA025574	1	WANDER HOSE SUPPORT RH MAJOR/MAXIM
13	SCA027926	1	HOSE SUPPORT BOOM AIR OPERATED

Wander boom air operated - controls - right hand - Merlin



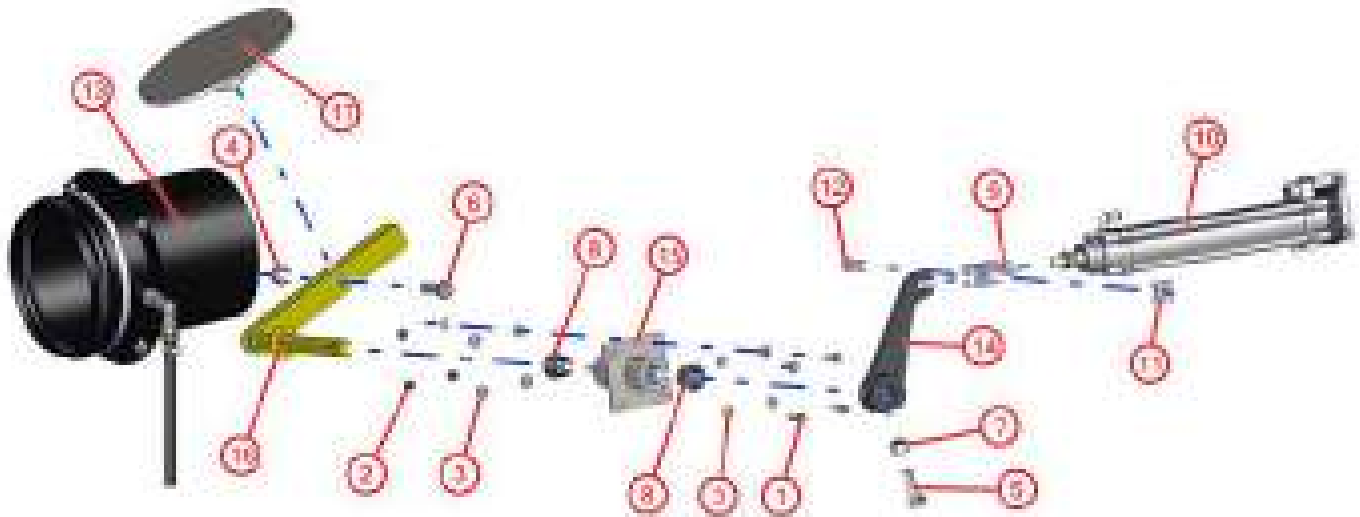
BOM ID	Part No.	Qty	Description
1	SCA011071	2	F.M6 T NYLOC NUT
2	SCA011087	2	F.HEX HT SETSCREW M6 X 25
3	SCA011090	2	F.PLWASHER M6 FORM C
4	SCA026267	1	3 BUTTON PENDANT WITH SPIRAL CABLE
5	SCA026355	1	PENDANT HOLSTER REAR AIR OPERATED BOOM
6	SCA036919	1	WIRING LOOM V3 AIR OP REAR BOOM

Wander boom air operated - blanking cover - right hand - Merlin



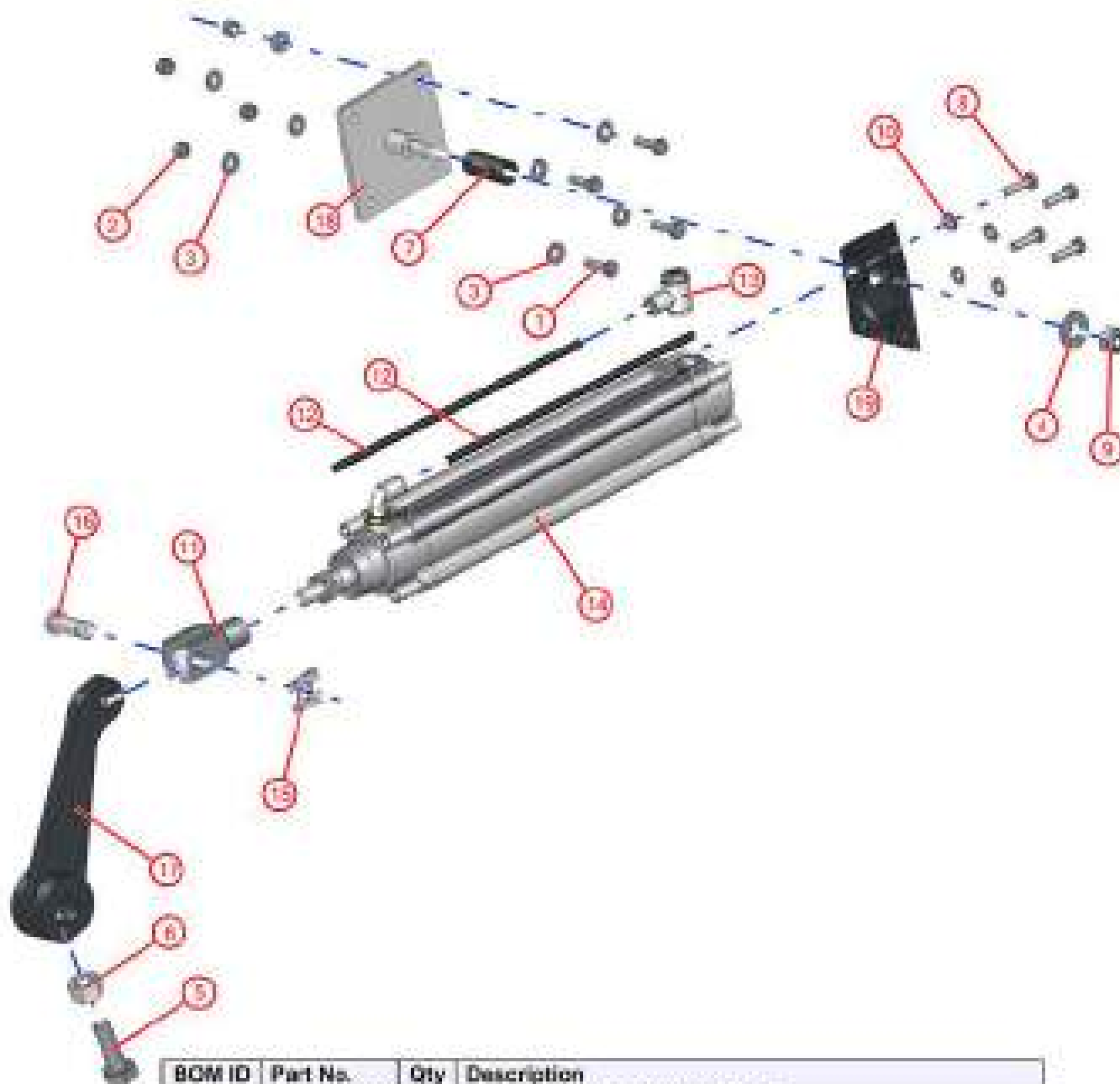
BOM ID	Part No.	Qty	Description
1	SCA00089	2	M3 DOME NUT
2	SCA00097	2	F.HEX BOLT M5 X 12
3	SCA00411	3	F.M5 S/COIL SPRING WASHER
4	SCA011092	2	F.PWASHER M8 FORM C
5	SCA011131	2	F.SEAL BLIND RIVET 4.8x18
6	SCA012542	1	GROMMET 1"
7	SCA025979	1	COVER RH RAM WHOSE BLANKING MERLIN
8	SCA030674	1	INSP.PLATE COVER RAM WHOSE BLANK MERLIN

Wander boom air operated - blanking flap - right hand - Merlin



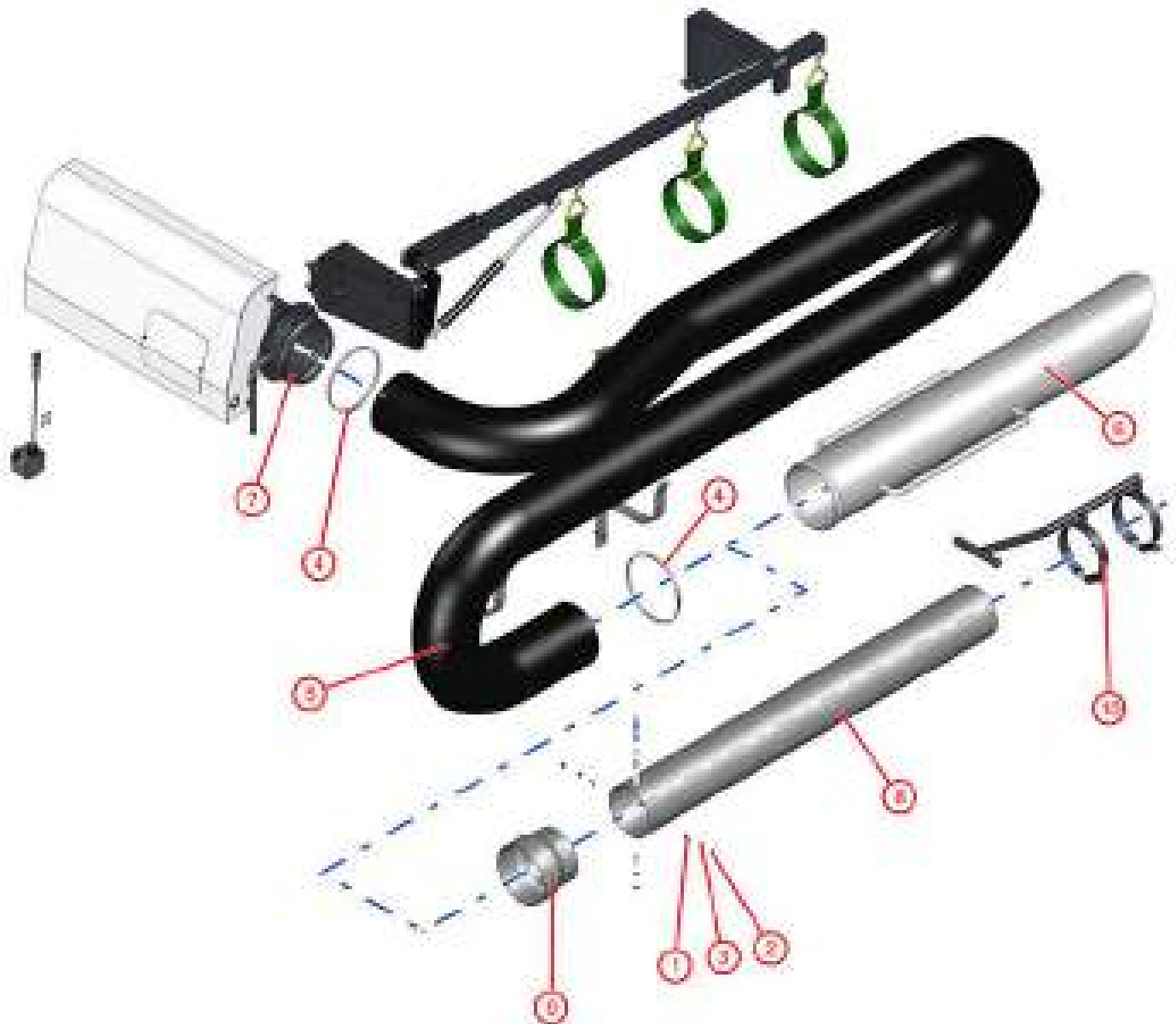
DOM ID	Part No.	Qty	Description
1	SCA000252	4	F.SS HEX SETSCREW M5 X 20
2	SCA000253	4	F.SS M6 T NYLOC NUT
3	SCA000254	8	F.SS PWASHER M6 FORM C
4	SCA000275	1	F.SS M12 T NYLOC NUT
5	SCA000276	1	F.SS HEX SETSCREW M12 X 1.25 X 35
6	SCA000278	1	F.SS HEX SETSCREW M12 X 40
7	SCA000279	1	F.SS HEX FULL NUT M12 X 1.25 FINE
8	SCA013488	2	BUSH
9	SCA014469	1	CLEVIS, AIR CYLINDER, M12.
10	SCA021467	1	P.PNEUMATIC CYLINDER 40 X 200
11	SCA023269	1	SAFTY FASTENER 12
12	SCA023270	1	CLEVIS PIN 12
13	SCA025225	1	WANDER HOSE SLEEVE DIA 177
14	SCA025264	1	FLAP LEVER WANDER HOSE
15	SCA025471	1	PNOT TUBE WANDER HOSE FLAP
16	SCA025476	1	FLAP ARM WANDER HOSE
17	SCA025467	1	WANDER HOSE FLAP MAJOR

Wander boom air operated - blanking pneumatic ram - right hand - Merlin



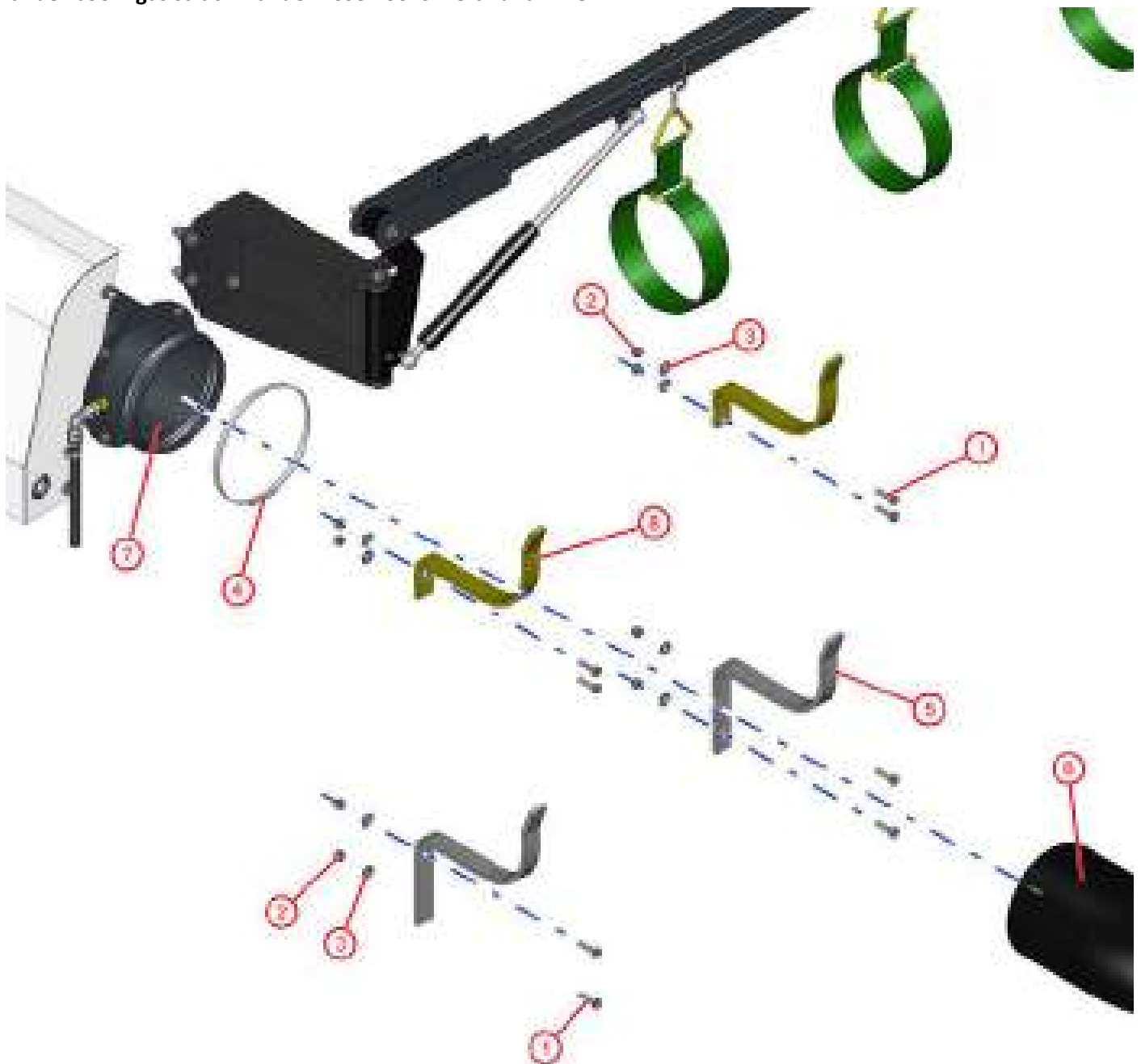
BCM ID	Part No.	Qty	Description
1	SCA000252	4	F.SS HEX SETSCREW M6 X 20
2	SCA000253	4	F.SS M6 T NYLOC NUT
3	SCA000254	8	F.SS P/WASHER M6 FORM C
4	SCA000270	1	F.SS P/WASHER M10 FORM C
5	SCA000276	1	F.SS HEX SETSCREW M12 X 1.25 X 35
6	SCA000279	1	F.SS HEX FULL NUT M12 X 1.25 FINE
7	SCA010950	1	HOSE 3/8 BLACK BRAIDED PVC
8	SCA011067	4	F.HEX HT SETSCREW M6 X 20
9	SCA011075	1	F.M10 T NYLOC NUT
10	SCA011091	4	F.SPRNG WASHER M6 RECT SECT S/COLL
11	SCA014469	1	CLEVIS, AIR CYLINDER, M12.
12	SCA014572	2	P.6MM OD X 1MM WT BLACK AIR PIPE
13	SCA021158	1	P.PNEUMATIC FLOW REGULATOR
14	SCA021467	1	P.PNEUMATIC CYLINDER 40 X 200
15	SCA023266	1	SAFETY FASTENER 12
16	SCA023270	1	CLEVIS PIN 13
17	SCA025254	1	FLAP LEVER WANDER HOSE
18	SCA025524	1	PIVOT (BOLT ON) RAM - W/HOSE FLAP
19	SCA030532	1	AIR RAM MTG BRACKET, WIDE SWEEP

Wander boom gas strut - wander hose and tubes - left hand - Merlin



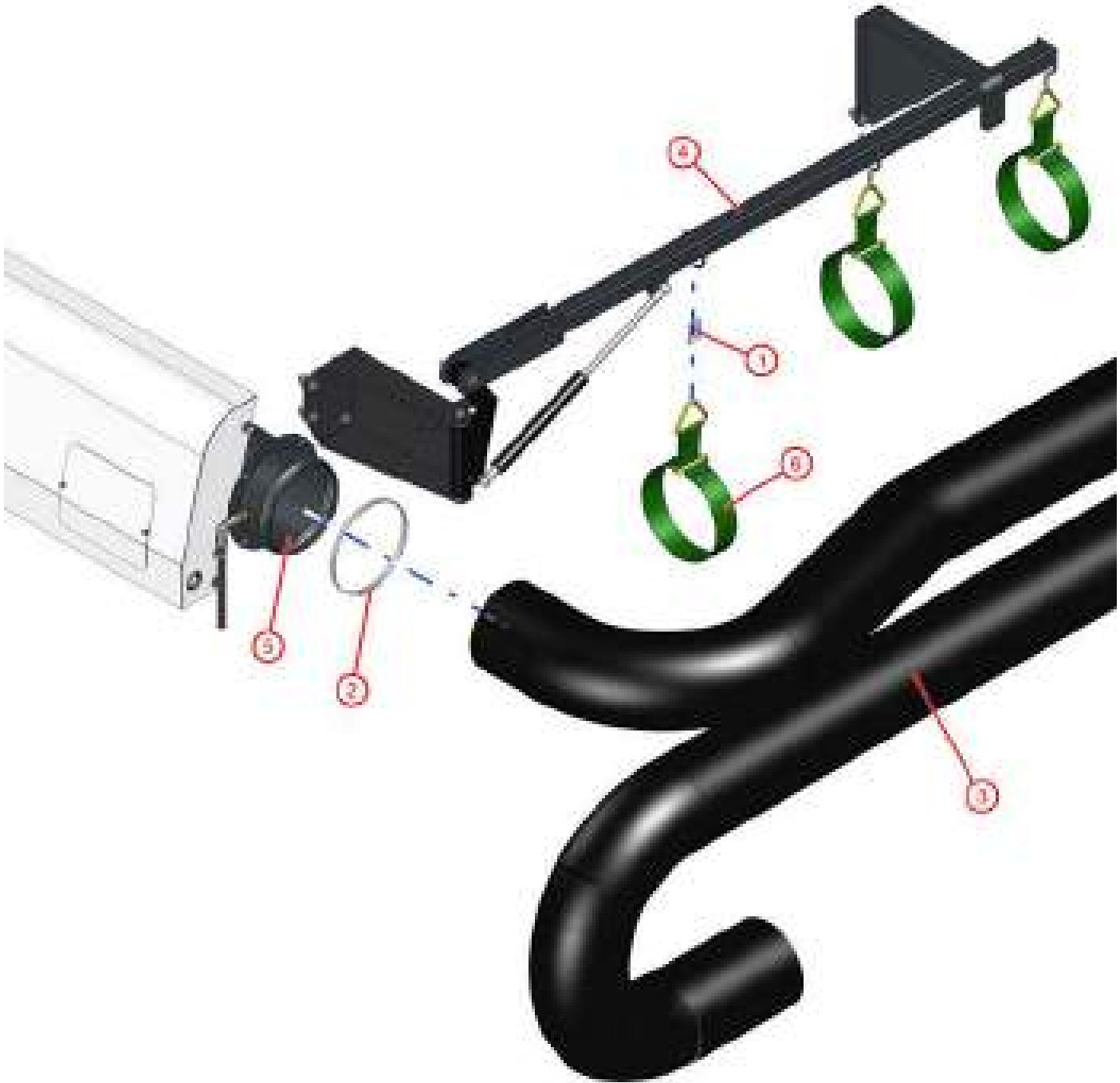
BOM ID	Part No.	Qty	Description
1	SCA000090	4	F.BUT HD SKT SCREW M5X16 PLATED
2	SCA000253	4	F.88 M5 T NYLOC NUT
3	SCA000254	4	F.55 P/WASHER M5 FORM C
4	SCA012933	2	JUBILEE CLIP No 10.50 (235 - 267)
5	SCA025214	1	180mm WANDER HOSE 4.5M LG REAR BOOM
6	SCA025217	1	SUCTION TUBE 180 (7.5")
7	SCA025225	1	WANDER HOSE SLEEVE DIA 177
8	SCA026808	1	TUBE - BOOM EXTENSION KIT
9	SCA031214	1	REDUCING COLLAR - GULLEY EXT.TUBE
10	SCA040678	1	ASSY WANDER HOSE HANDLE (150 DIA)

Wander boom gas strut - wander hose hooks - left hand - Merlin



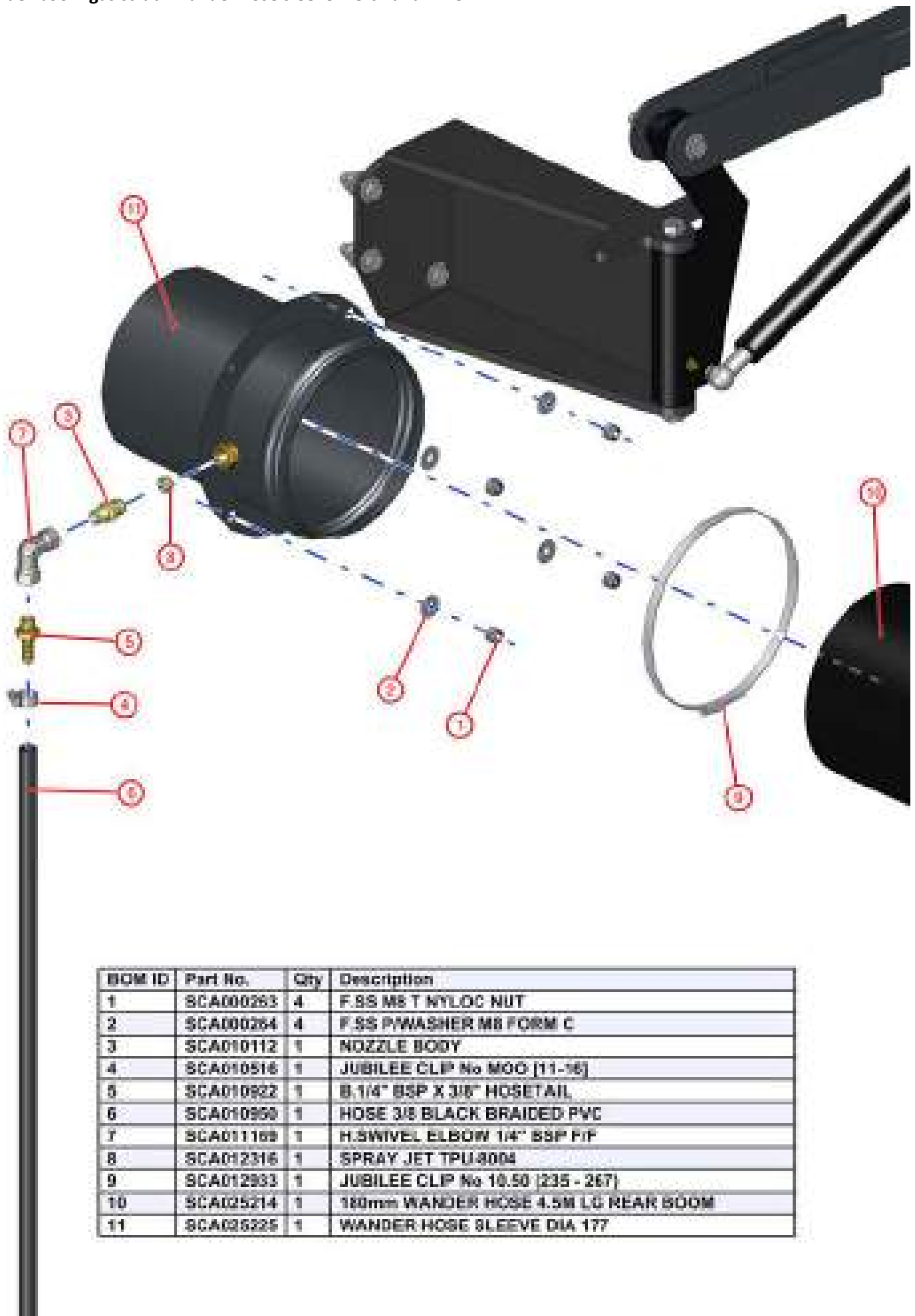
BOM ID	Part No.	Qty	Description
1	SCA000258	8	F.8S HEX SETSCREWS M8 X 36
2	SCA000263	8	F.8S M8 T NYLOC NUT
3	SCA000264	8	F.8S PWASHER M8 FORM C
4	SCA012933	1	JUBILEE CLIP No 10.50 (235 - 267)
5	SCA022747	2	WANDER PIPE HOOK
6	SCA025214	1	180mm WANDER HOSE 4.5M LG REAR BOOM
7	SCA025225	1	WANDER HOSE SLEEVE DIA 177
8	SCA030808	2	WANDER BOOM EXT HOOK

Wander boom gas strut - wander hose straps - left hand - Merlin



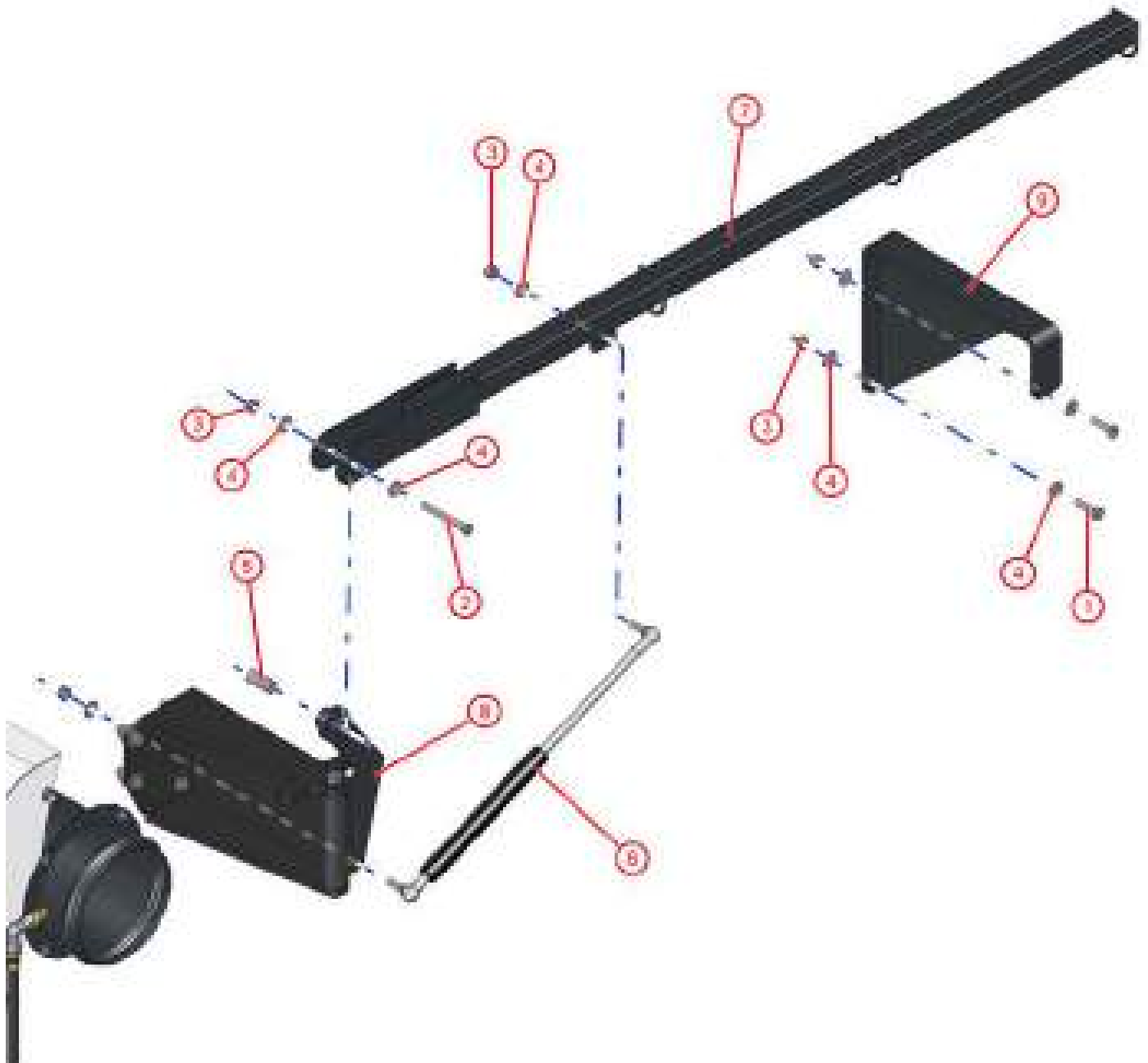
BOM ID	Part No.	Qty	Description
1	SCA010606	3	CARABINER
2	SCA012933	1	JUBILEE CLIP No 10.50 (235 - 267)
3	SCA025214	1	180mm WANDER HOSE 4.5M LG REAR BOOM
4	SCA025218	1	WANDER HOSE SUPPORT BOOM
5	SCA025225	1	WANDER HOSE SLEEVE DIA 177
6	SCA025235	3	WANDER HOSE STRAP

Wander boom gas strut - wander hose sleeve - left hand - Merlin



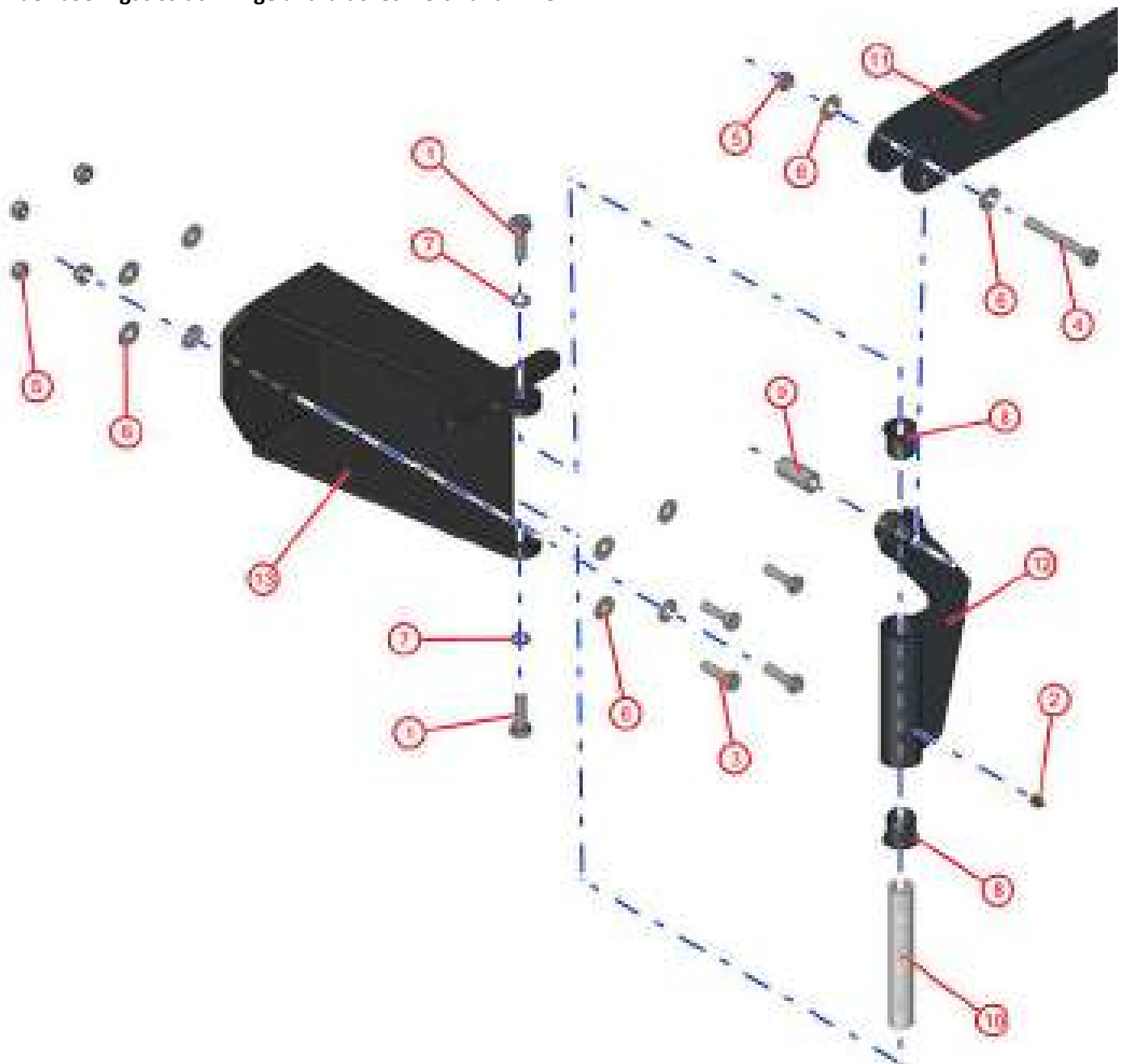
BOM ID	Part No.	Qty	Description
1	SCA000283	4	F.SS M8 T NYLOC NUT
2	SCA000284	4	F.SS PWASHER M8 FORM C
3	SCA010112	1	NOZZLE BODY
4	SCA010516	1	JUBILEE CLIP No M00 (11-16)
5	SCA010922	1	B-1/4" BSP X 3/8" HOSETAIL
6	SCA010950	1	HOSE 3/8 BLACK BRAIDED PVC
7	SCA011169	1	H.SWIVEL ELBOW 1/4" BSP FxP
8	SCA012316	1	SPRAY JET TPU-8004
9	SCA012933	1	JUBILEE CLIP No 10.50 (235 - 267)
10	SCA025214	1	180mm WANDER HOSE 4.5M LG REAR BOOM
11	SCA025225	1	WANDER HOSE SLEEVE DIA 177

Wander boom gas strut - wander boom, stowage and gas strut - left hand - Merlin



BOM ID	Part No.	Qty	Description
1	SCA011033	2	F.HEX HT SETSCREW M10 X 35
2	SCA011038	1	F.HEX HT BOLT M10 X 80
3	SCA011075	5	F.M10 T NYLOC NUT
4	SCA011094	8	F.P.WASHER M10 FORM C
5	SCA014389	1	SPACER 20 X 10.5 X 41 LG
6	SCA021993	1	GAS STRUT CAB TILT (1996-)
7	SCA025218	1	WANDER HOSE SUPPORT BOOM
8	SCA025219	1	WANDER HOSE HINGE
9	SCA025268	1	STOWAGE BRACKET WANDER HOSE

Wander boom gas strut - hinge and bracket - left hand - Merlin



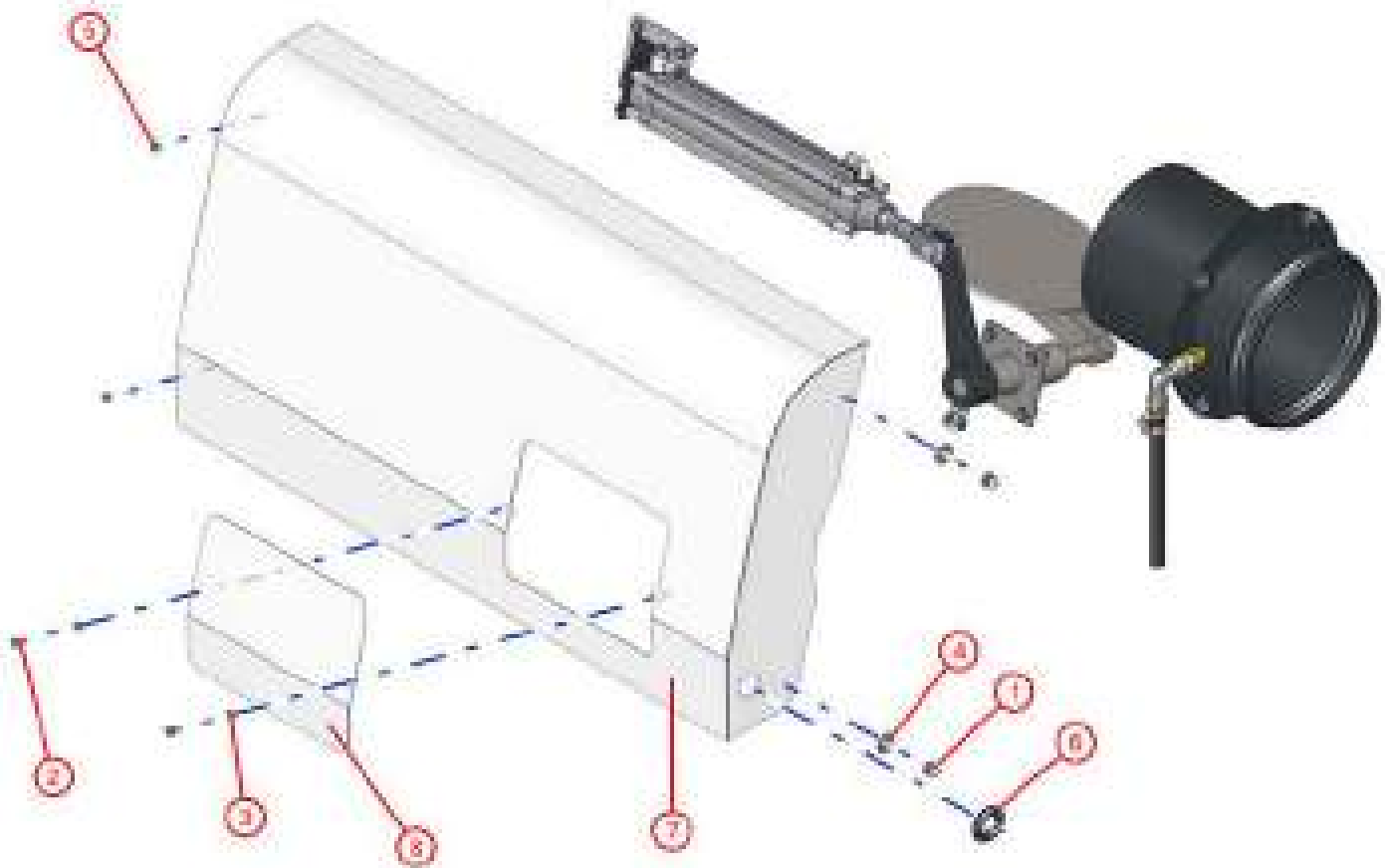
BOW ID	Part No.	Qty	Description
1	SCA000285	2	F.SS HEX SET SCREW M12 X 35
2	SCA010903	1	GREASE NIPPLE 1/8" BSP STR
3	SCA011033	4	F.HEX HT SETSCREW M10 X 35
4	SCA011038	1	F.HEX HT BOLT M10 X 60
5	SCA011075	5	F.M10 T NYLOC NUT
6	SCA011094	10	F.PIWASHER M10 FORM C
7	SCA011097	2	F.SPRING WASHER M12 RECT SECT 8/COL
8	SCA013662	2	BUSH BRUSH PIVOTS
9	SCA014399	1	SPACER 20 X 10.5 X 41 LG
10	SCA023490	1	HINGE SHAFT BOOM
11	SCA025218	1	WANDER HOSE SUPPORT BOOM
12	SCA025219	1	WANDER HOSE HINGE
13	SCA025220	1	WANDER HOSE SUPPORT LH

Wander boom gas strut - controls - left hand - Merlin



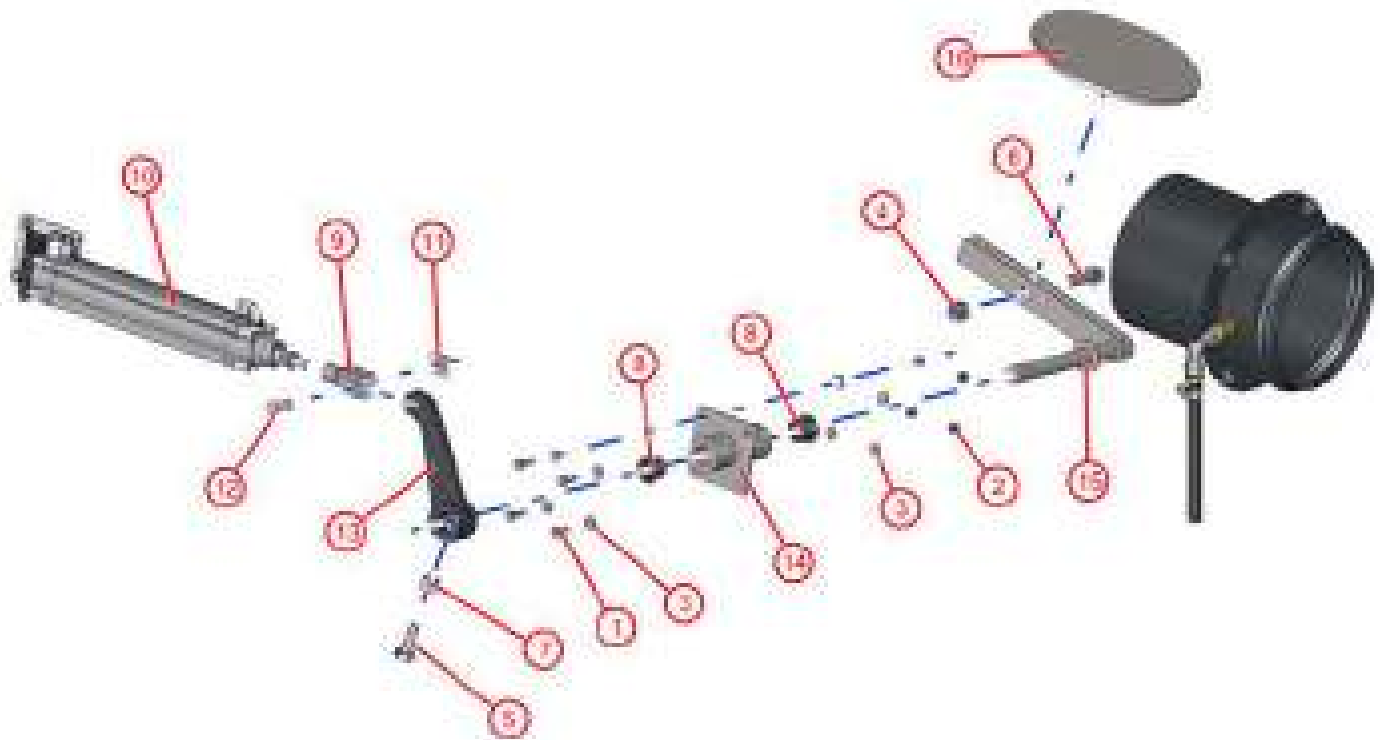
BOB ID	Part No.	Qty	Description
1	SCA000155	2	F.NYLOC NUT M5
2	SCA000402	2	F.M5X20 PAN POZI HEAD SCREW
3	SCA036808	1	WIRING LOOM VS REAR BOOM SWITCH
4	SCA039548	2	REAR BOOM STICKER

Wander boom gas strut - blanking cover - left hand - Merlin



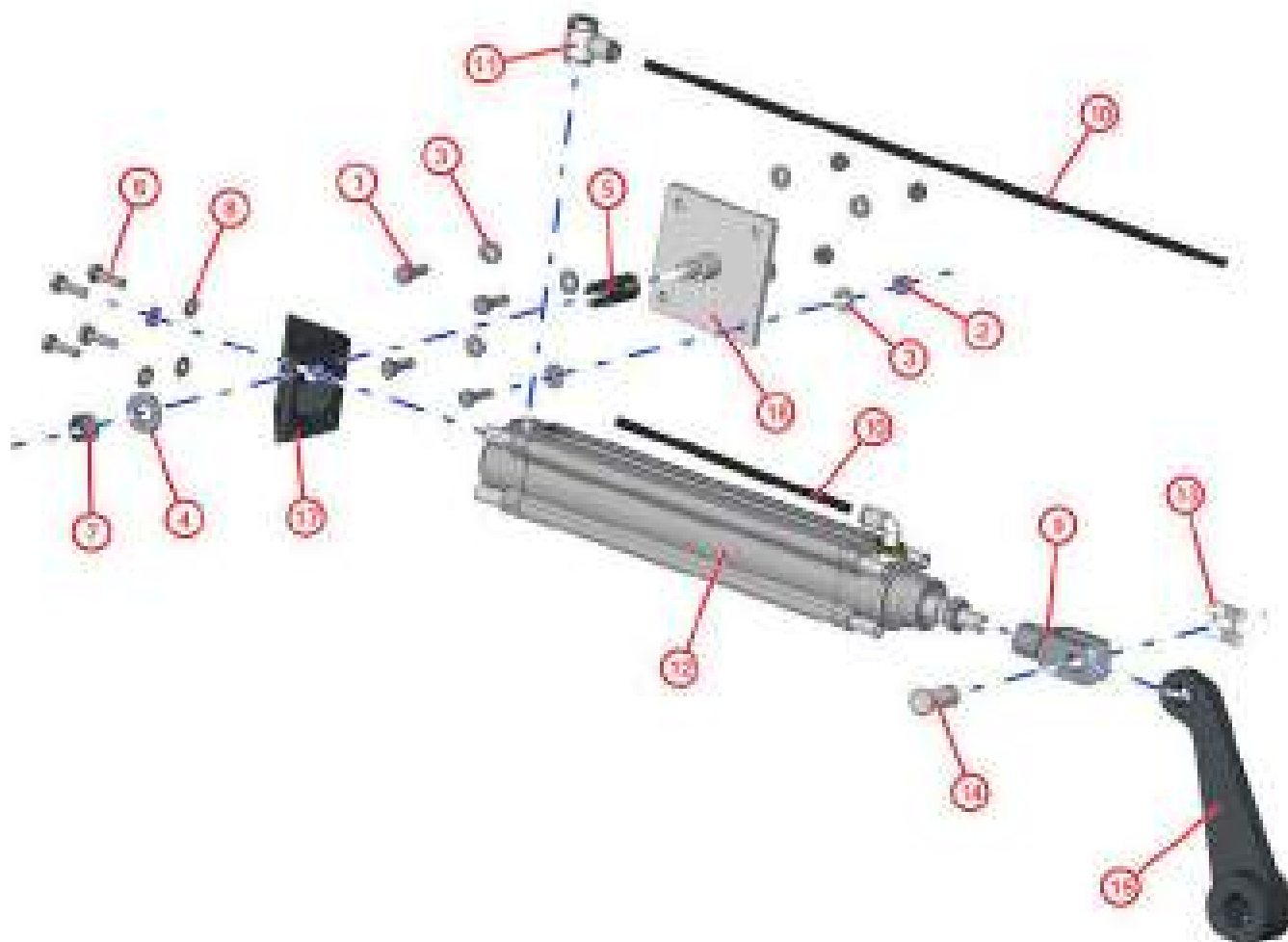
BOM ID	Part No.	Qty	Description
1	SCA000069	2	M3 DOME NUT
2	SCA000097	2	F.HEX BOLT M5 X 12
3	SCA000411	2	F.M5 SICOIL SPRING WASHER
4	SCA011092	2	F.P.WASHER M5 FORM C
5	SCA011131	2	F.SEAL BLIND RIVET 4.8x18
6	SCA012542	1	GROMMET 1"
7	SCA025969	1	COVER LH RAM W/BOOM BLANKING MERLIN
8	SCA030674	1	INSP.PLATE COVER RAM W/HOSE BLANK MERLIN

Wander boom gas strut - blanking flap - left hand - Merlin



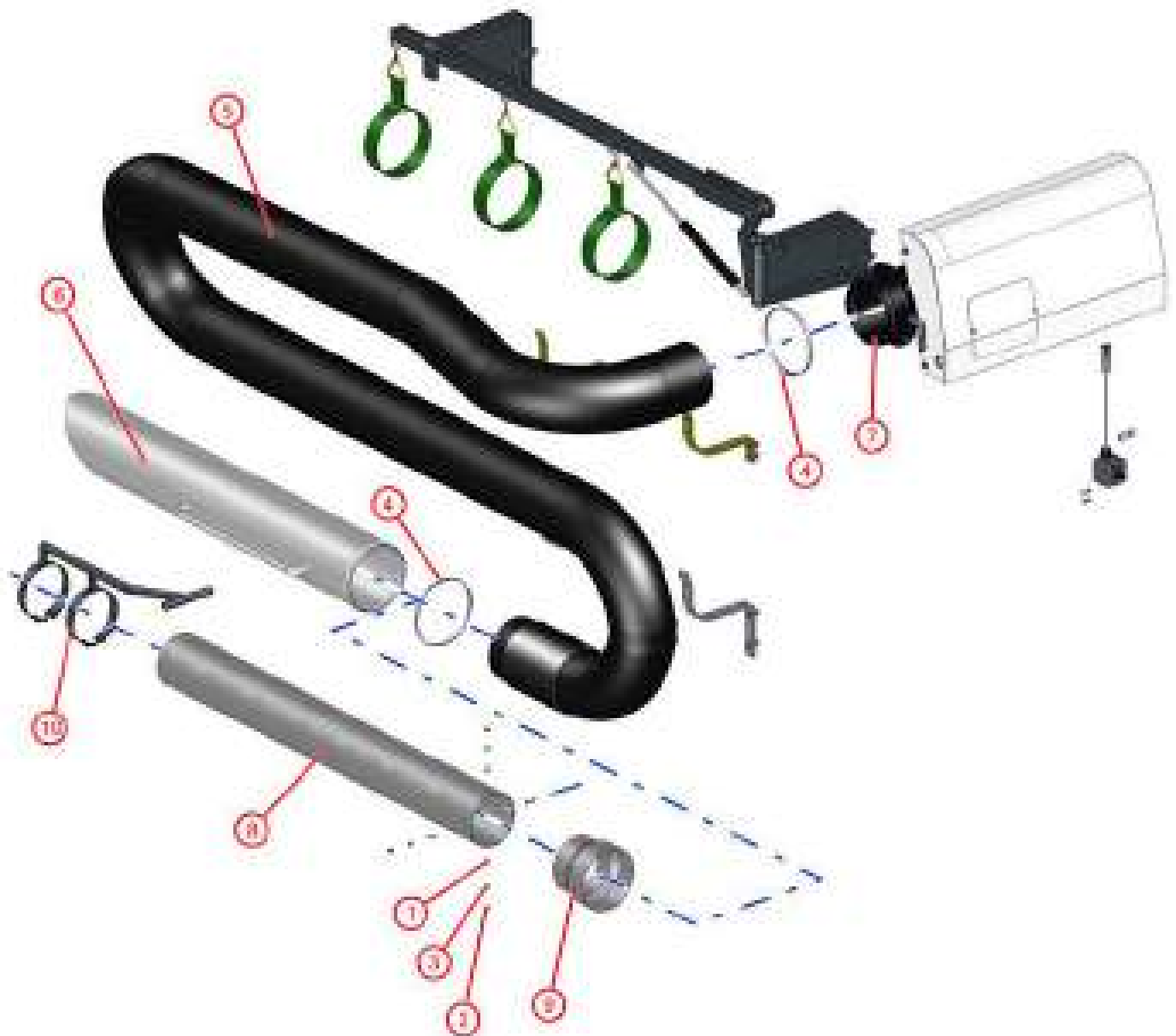
BOM ID	Part No.	Qty	Description
1	SCA000252	4	F.SS HEX SETSCREW M6 X 20
2	SCA000253	4	F.SS M6 T NYLOC NUT
3	SCA000254	8	F.SS PWASHER M6 FORM C
4	SCA000275	1	F.SS M12 T NYLOC NUT
5	SCA000276	1	F.SS HEX SETSCREW M12 X 1.25 X 35
6	SCA000278	1	F.SS HEX SETSCREW M12 X 40
7	SCA000279	1	F.SS HEX FULL NUT M12 X 1.25 FINE
8	SCA013488	2	BUSH
9	SCA014489	1	CLEVIS, AIR CYLINDER, M12.
10	SCA021467	1	P.PNEUMATIC CYLINDER 40 X 100
11	SCA023209	1	SAFETY FASTENER 12
12	SCA023270	1	CLEVIS PIN 12
13	SCA025254	1	FLAP LEVER WANDER HOSE
14	SCA025471	1	PNOT TUBE WANDER HOSE FLAP
15	SCA025475	1	FLAP ARM WANDER HOSE
16	SCA025487	1	WANDER HOSE FLAP MAJOR

Wander boom gas strut - blanking pneumatic ram - left hand - Merlin



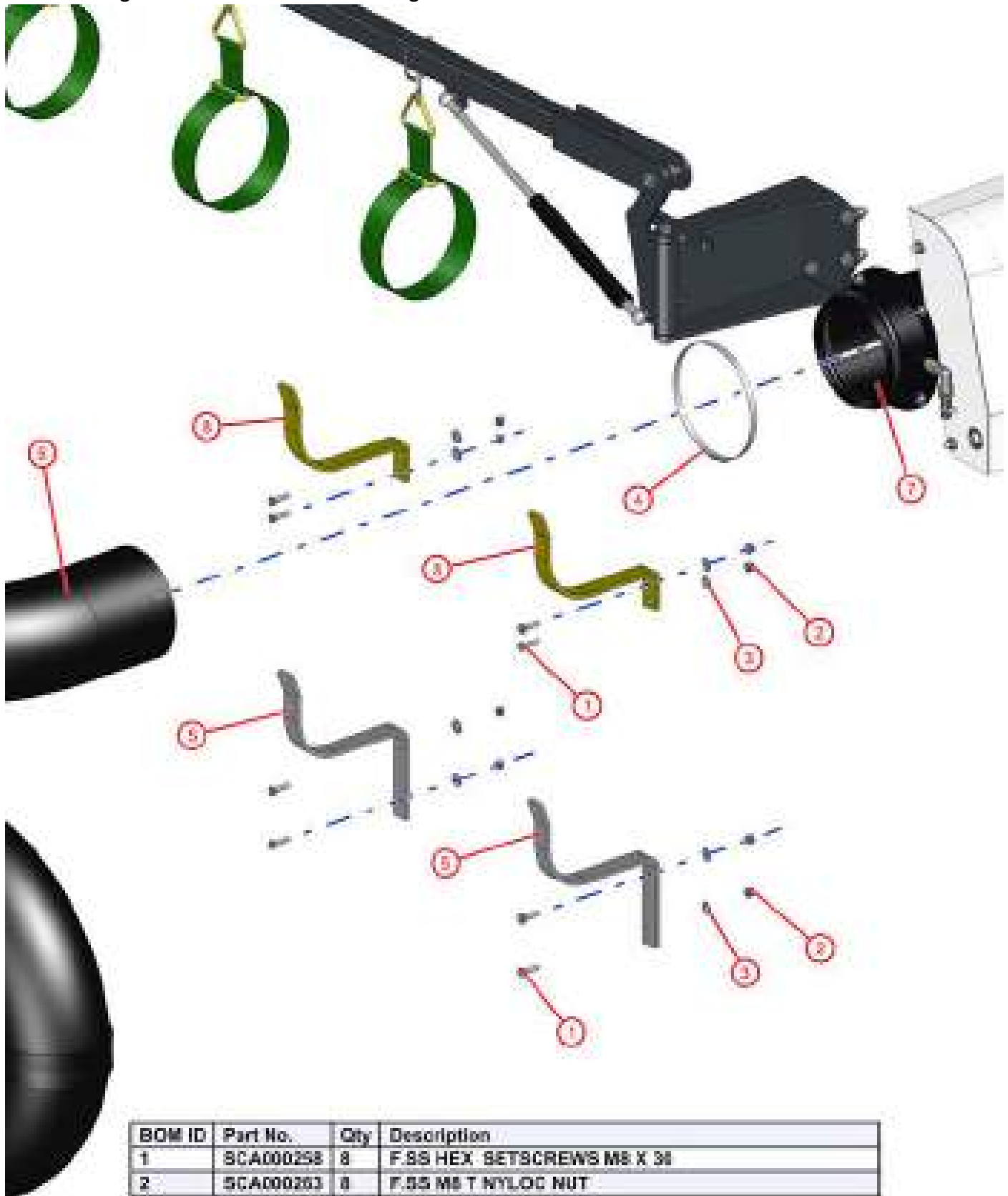
BOM ID	Part No.	Qty	Description
1	SCA000252	4	F.SS HEX SETSCREW M5 X 20
2	SCA000253	4	F.SS M6 T NYLOC NUT
3	SCA000254	8	F.SS PWASHER M6 FORM C
4	SCA000278	1	F.SS PWASHER M18 FORM C
5	SCA010950	1	HOSE 3/8 BLACK BRAIDED PVC
6	SCA011067	4	F.HEX HT SETSCREW M5 X 20
7	SCA011075	1	F.M16 T NYLOC NUT
8	SCA011091	4	F.SPRING WASHER M6 RECT SECT S&COIL
9	SCA014469	1	CLEVIS, AIR CYLINDER, M12
10	SCA014572	2	P.6MM OD X 1MM WT BLACK AIR PIPE
11	SCA021158	1	P.PNEUMATIC FLOW REGULATOR
12	SCA021467	1	P.PNEUMATIC CYLINDER 40 X 200
13	SCA023269	1	SAFETY FASTENER 12
14	SCA023279	1	CLEVIS PIN 12
15	SCA025254	1	FLAP LEVER WANDER HOSE
16	SCA025524	1	PNUT [BOLT ON] RAM - WHOSE FLAP
17	SCA030532	1	AIR RAM MTO BRACKET, WIDESWEEP

Wander boom gas strut - wander hose and tubes - right hand - Merlin



BOM ID	Part No.	Qty	Description
1	SCA000090	4	F.BUT HD SKT SCREW M5X16 PLATED
2	SCA000253	4	F.88 M5 T NYLOC NUT
3	SCA000254	4	F.55 P.WASHER M5 FORM C
4	SCA012933	2	JUBILEE CLIP No 10.50 (235 - 267)
5	SCA025214	1	180mm WANDER HOSE 4.5M LG REAR BOOM
6	SCA025217	1	SUCTION TUBE 180 (7.5")
7	SCA025225	1	WANDER HOSE SLEEVE DIA 177
8	SCA026808	1	TUBE - BOOM EXTENSION KIT
9	SCA031214	1	REDUCING COLLAR - GULLEY EXT.TUBE
10	SCA040679	1	ASSY WANDER HOSE HANDLE (150 DIA)

Wander boom gas strut - wander hose hooks - right hand - Merlin



BOM ID	Part No.	Qty	Description
1	SCA000258	8	F.8S HEX SETSCREWS M8 X 36
2	SCA000263	8	F.8S M8 T NYLOC NUT
3	SCA000264	8	F.8S PWASHER M8 FORM C
4	SCA012933	1	JUBILEE CLIP No 10.50 (235 - 267)
5	SCA022747	2	WANDER PIPE HOOK
6	SCA025214	1	180mm WANDER HOSE 4.5M LG REAR BOOM
7	SCA025225	1	WANDER HOSE SLEEVE DIA 177
8	SCA030808	2	WANDER BOOM EXT HOOK

Wander boom gas strut - wander hose straps - right hand - Merlin



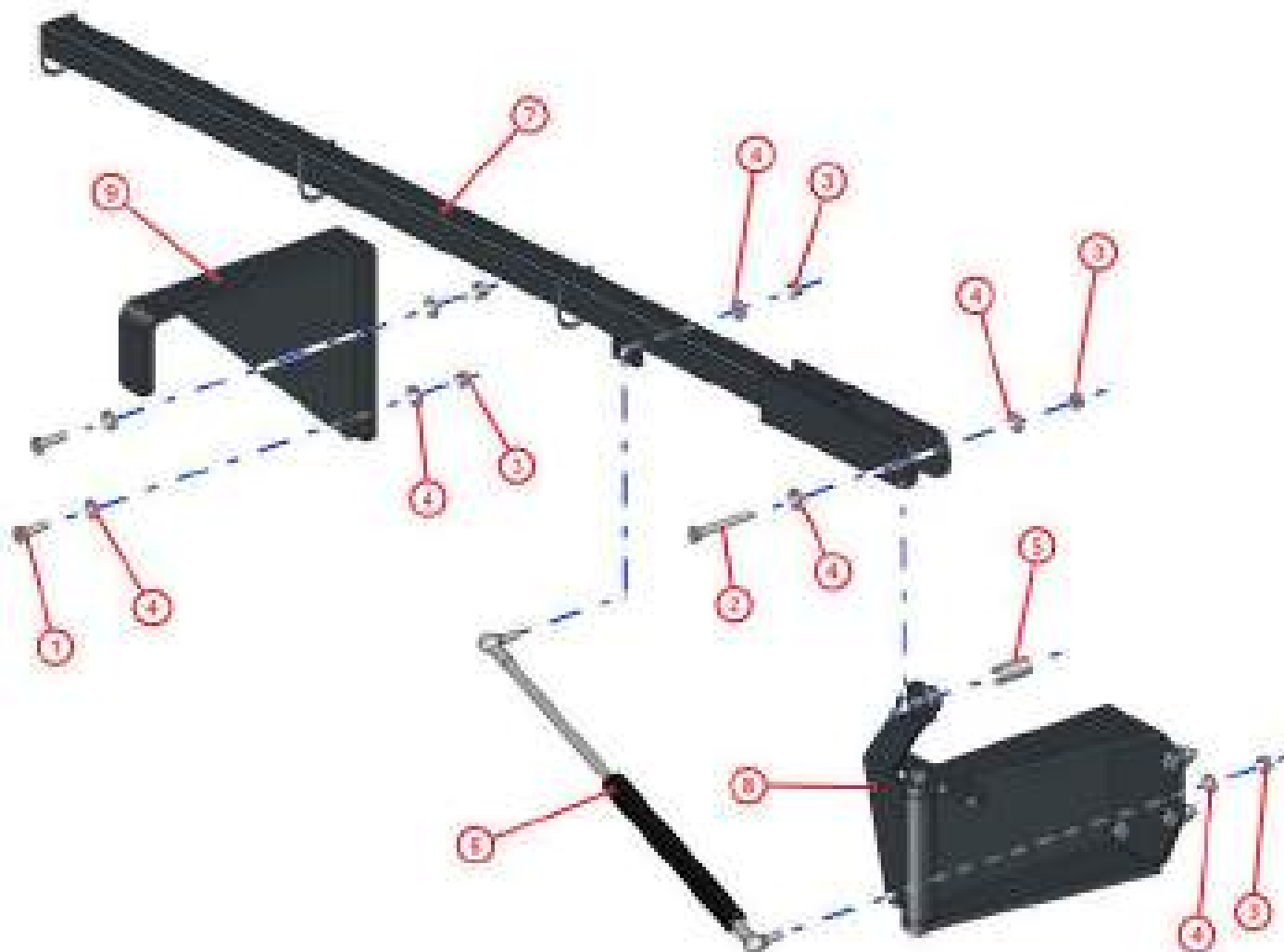
BOM ID	Part No.	Qty	Description
1	SCA010606	3	CARABINER
2	SCA012933	1	JUBILEE CLIP No 10.50 (235 - 267)
3	SCA025214	1	180mm WANDER HOSE 4.5M LG REAR BOOM
4	SCA025218	1	WANDER HOSE SUPPORT BOOM
5	SCA025225	1	WANDER HOSE SLEEVE DIA 177
6	SCA025235	3	WANDER HOSE STRAP

Wander boom gas strut - wander hose sleeve - right hand - Merlin



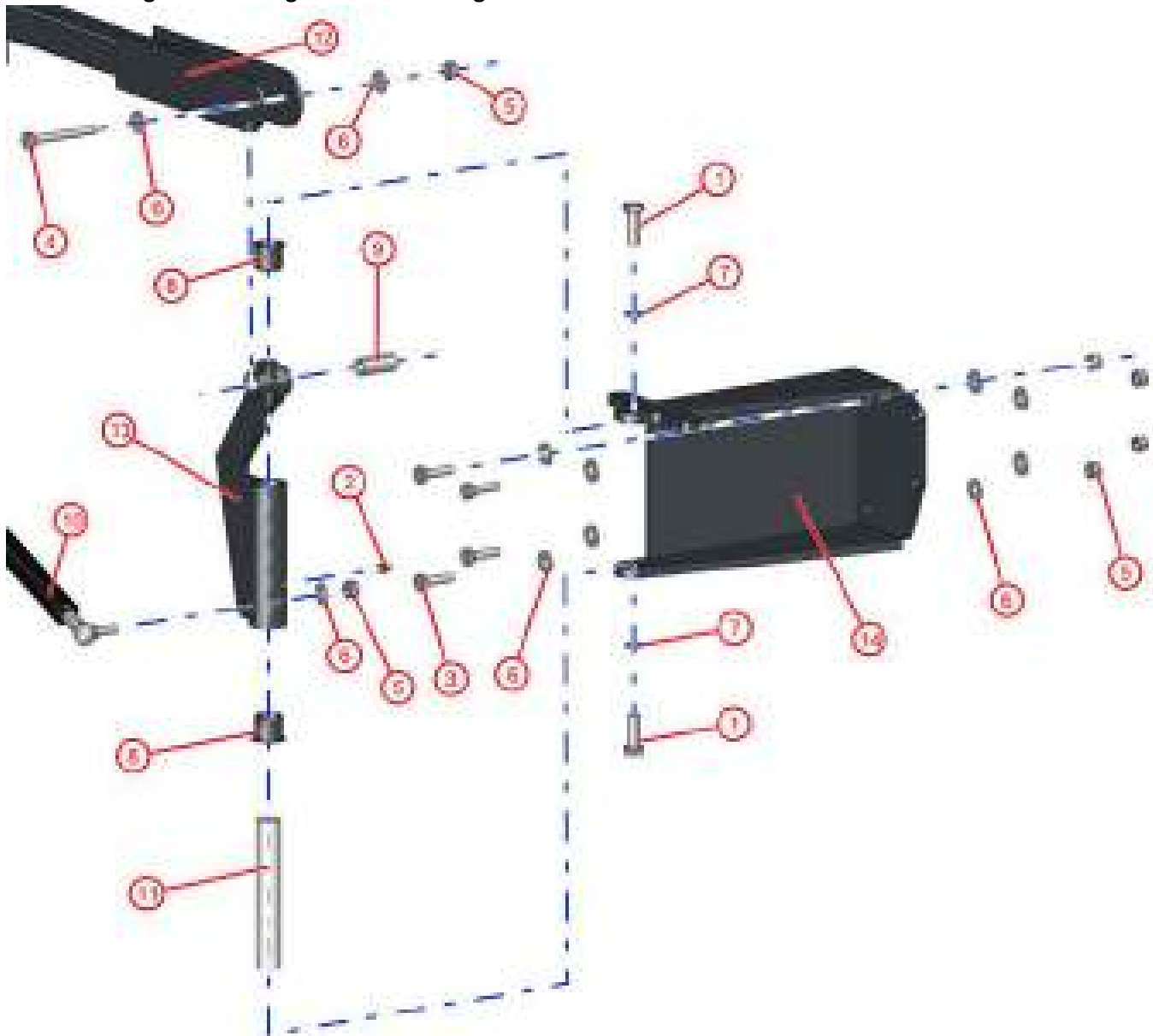
BOM ID	Part No.	Qty	Description
1	SCA000263	4	F.55 M8 T NYLOC NUT
2	SCA000264	4	F.88 PWASHER M8 FORM C
3	SCA010112	1	NOZZLE BODY
4	SCA010516	1	JUBILEE CLIP No M00 [11-16]
5	SCA010522	1	8.1/4" BSP X 3/8" HOSETAIL
6	SCA010569	1	HOSE 3/8 BLACK BRAIDED PVC
7	SCA011169	1	H.5WVEL ELBOW 1/4" BSP F/F
8	SCA012316	1	SPRAY JET TPU-3004
9	SCA012603	1	JUBILEE CLIP No 10.50 [235 - 267]
10	SCA025214	1	180mm WANDER HOSE 4.5M LG REAR BOOM
11	SCA025325	1	WANDER HOSE SLEEVE DIA 177

Wander boom gas strut - wander boom, stowage and gas strut - right hand - Merlin



BOM ID	Part No.	Qty	Description
1	SCA011033	2	F.HEX HT SETSCREW M10 X 35
2	SCA011038	1	F.HEX HT BOLT M10 X 80
3	SCA011075	5	F.M10 T NYLOC NUT
4	SCA011094	8	F.P.WASHER M10 FORM C
5	SCA014389	1	SPACER 20 X 10.5 X 41 LG
6	SCA021993	1	GAS STRUT CAB TILT
7	SCA025218	1	WANDER HOSE SUPPORT BOOM
8	SCA025219	1	WANDER HOSE HINGE
9	SCA025268	1	STOWAGE BRACKET WANDER HOSE

Wander boom gas strut - hinge and bracket - right hand - Merlin



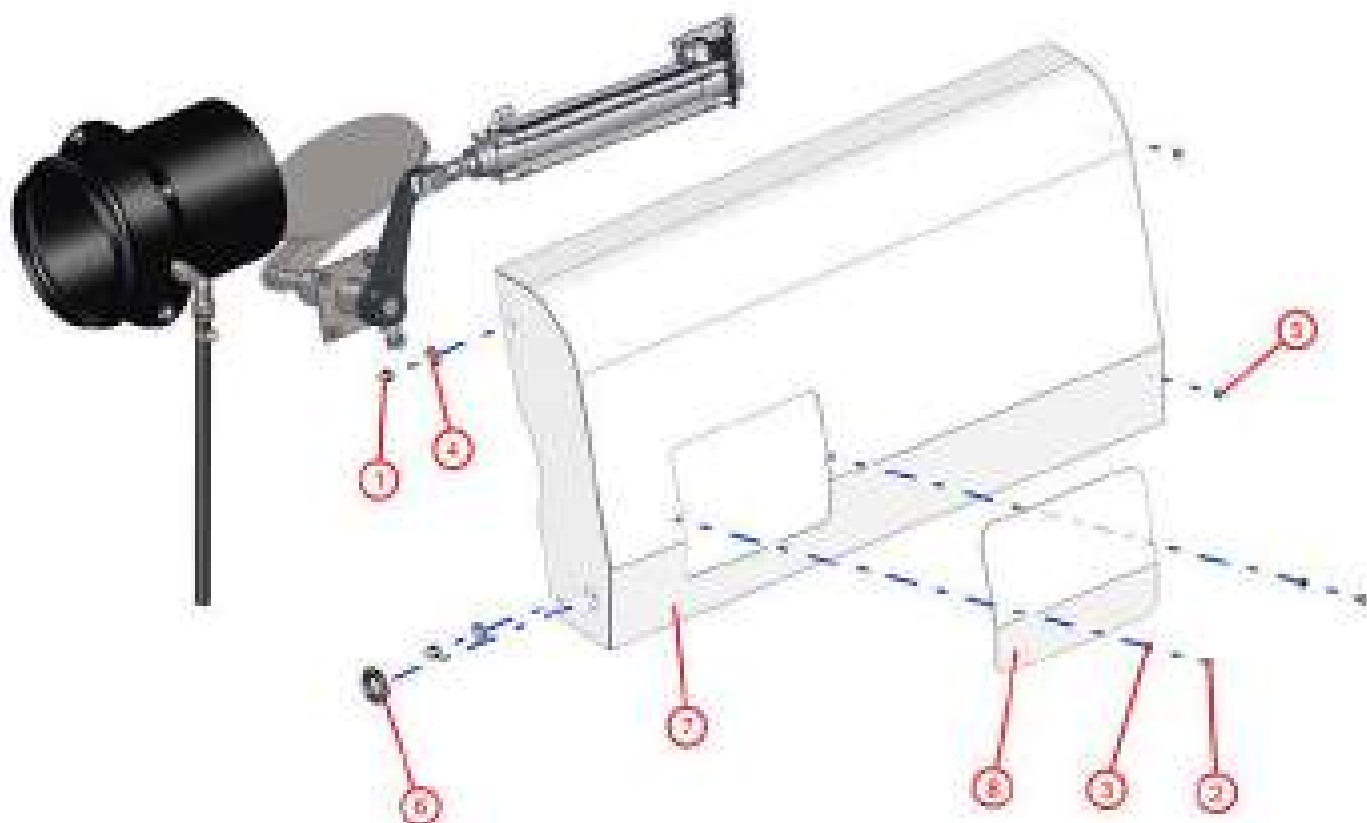
BOM ID	Part No.	Qty	Description
1	SCA000285	2	F.SS HEX SET SCREW M12 X 35
2	SCA010903	1	GREASE NIPPLE 1/8" BSP STR
3	SCA011033	4	F.HEX HT SETSCREW M10 X 35
4	SCA011038	1	F.HEX HT BOLT M10 X 80
5	SCA011075	6	F.M10 T NYLOC NUT
6	SCA011094	11	F.PIWASHER M10 FORM C
7	SCA011097	2	F.SPRING WASHER M12 RECT SECT S/COL.
8	SCA013682	2	BUSH BRUSH PIVOTS
9	SCA014399	1	SPACER 20 X 10.5 X 41 LG
10	SCA021993	1	GAS STRUT CAB TILT
11	SCA023490	1	HINGE SHAFT BOOM
12	SCA025218	1	WANDER HOSE SUPPORT BOOM
13	SCA025219	1	WANDER HOSE HINGE
14	SCA025574	1	WANDER HOSE SUPPORT RH MAJOR/MAXIM

Wander boom gas strut - controls - right hand - Merlin



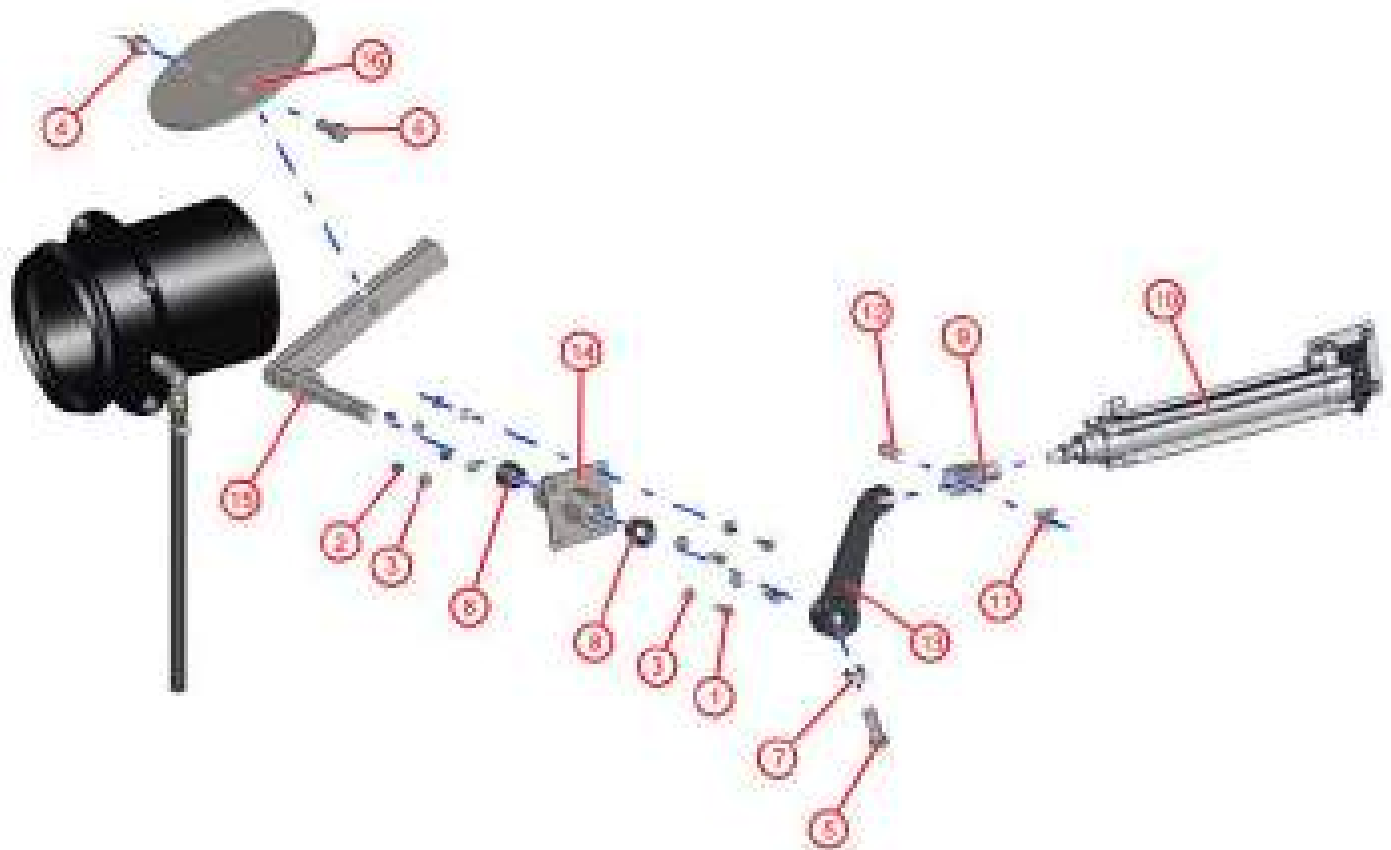
BOM ID	Part No.	Qty	Description
1	SCA000155	2	F.NYLOC NUT M5
2	SCA000402	2	F.M5X20 PAN POZI HEAD SCREW
3	SCA036908	1	WIRING LOOM V3 REAR BOOM SWITCH
4	SCA039548	2	REAR BOOM STICKER

Wander boom gas strut - blanking cover - right hand - Merlin



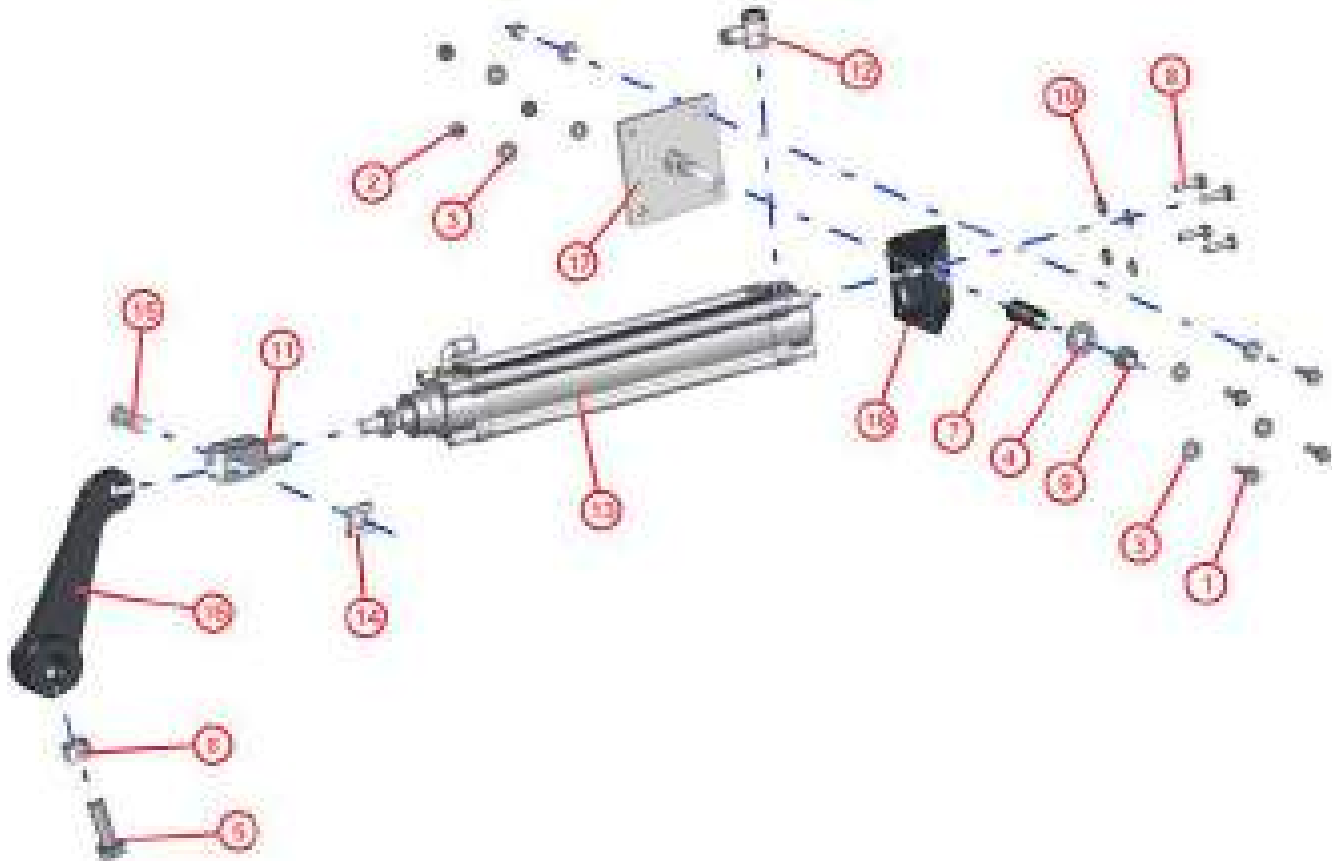
BOM ID	Part No.	Qty	Description
1	SCA000089	2	M8 DOME NUT
2	SCA000097	2	F HEX BOLT M6 X 12
3	SCA000411	2	F M5 S/COIL SPRING WASHER
4	SCA011092	2	F PYWASHER M8 FORM C
5	SCA011131	2	F SEAL BLIND RIVET 4.8x18
6	SCA012542	1	GROMMET 1"
7	SCA025879	1	COVER RH RAM WHOSE BLANKING MERLIN
8	SCA030674	1	INSP.PLATE COVER RAM WHOSE BLANK MERLIN

Wander boom gas strut - blanking flap - right hand - Merlin



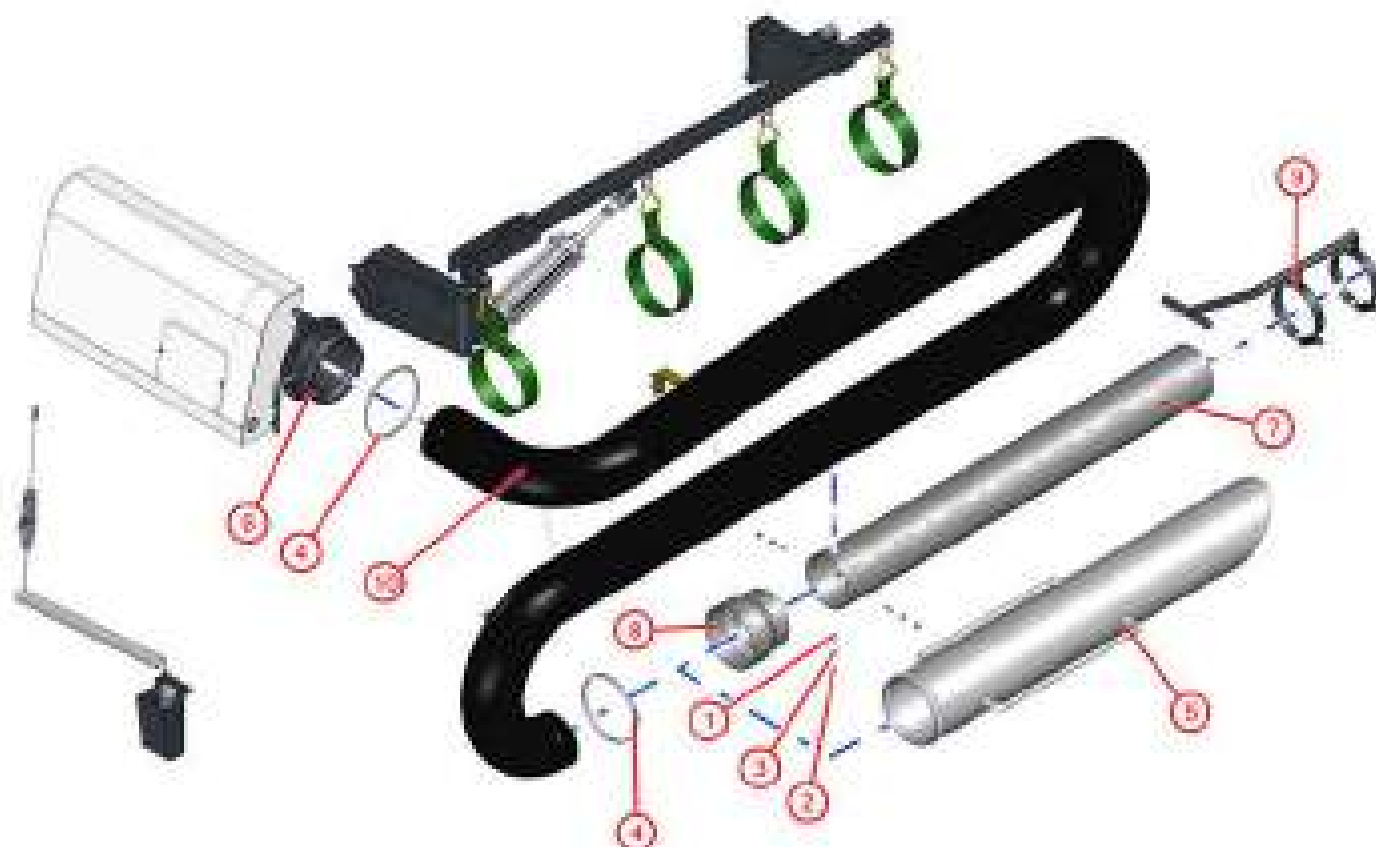
BOM ID	Part No.	Qty	Description
1	SCA000252	4	F.SS HEX SETSCREW M6 X 20
2	SCA000253	4	F.SS M6 T NYLOC NUT
3	SCA000254	8	F.SS PWASHER M6 FORM C
4	SCA000275	1	F.SS M12 T NYLOC NUT
5	SCA000276	1	F.SS HEX SETSCREW M12 X 1.25 X 35
6	SCA000278	1	F.SS HEX SETSCREW M12 X 40
7	SCA000279	1	F.SS HEX FULL NUT M12 X 1.25 FINE
8	SCA013488	2	BUSH
9	SCA014489	1	CLEVIS, AIR CYLINDER, M12.
10	SCA021467	1	P.PNEUMATIC CYLINDER 40 X 100
11	SCA023209	1	SAFETY FASTENER 12
12	SCA023270	1	CLEVIS PIN 12
13	SCA025254	1	FLAP LEVER WANDER HOSE
14	SCA025471	1	PNOT TUBE WANDER HOSE FLAP
15	SCA025475	1	FLAP ARM WANDER HOSE
16	SCA025487	1	WANDER HOSE FLAP MAJOR

Wander boom gas strut - blanking pneumatic ram - right hand - Merlin



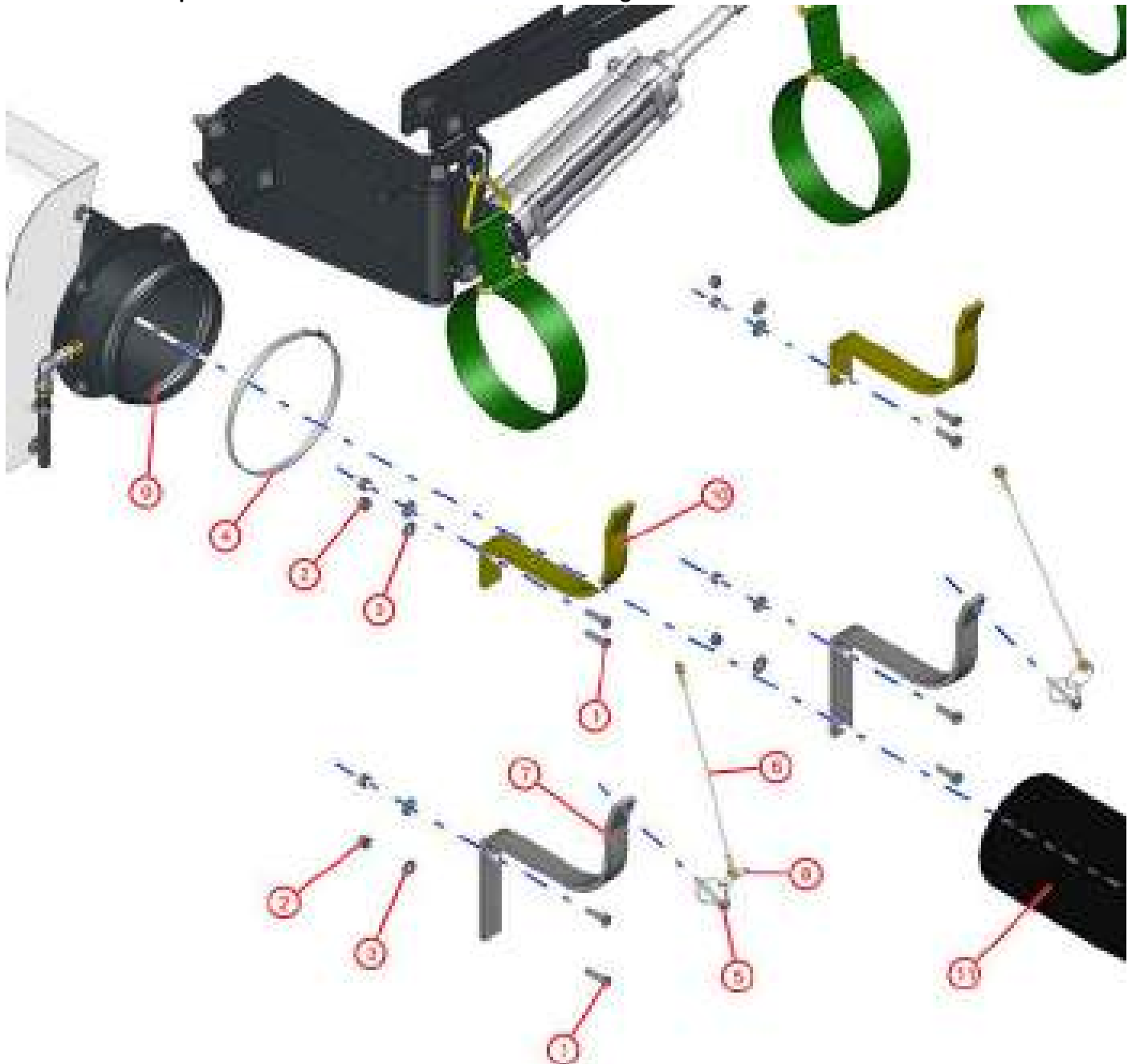
BOM ID	Part No.	Qty	Description
1	SCA000252	4	F.SS HEX SETSCREW M8 X 20
2	SCA000253	4	F.SS M6 T NYLOC NUT
3	SCA000254	8	F.SS P/WASHER M6 FORM C
4	SCA000270	1	F.SS P/WASHER M10 FORM C
5	SCA000275	1	F.SS HEX SETSCREW M12 X 1.25 X 35
6	SCA000279	1	F.SS HEX FULL NUT M12 X 1.25 FINE
7	SCA010950	1	HOSE 3/8 BLACK BRAIDED PVC
8	SCA011067	4	F.HEX HT SETSCREW M6 X 20
9	SCA011075	1	F.M10 T NYLOC NUT
10	SCA011091	4	F.SPRING WASHER M6 RECT SECT S/COIL
11	SCA014409	1	CLEVIS. AIR CYLINDER. M12.
12	SCA021158	1	P.PNEUMATIC FLOW REGULATOR
13	SCA021467	1	P.PNEUMATIC CYLINDER 40 X 100
14	SCA023209	1	SAFETY FASTENER 12
15	SCA023270	1	CLEVIS PIN 12
16	SCA025254	1	FLAP LEVER WANDER HOSE
17	SCA025524	1	P.WOT [BOLT ON] RAM - WHOSE FLAP
18	SCA030532	1	AIR RAM MTS BRACKET, WIDESWEEP

Wander boom air operated - wander hose and tubes - left hand - Magnum



BOM ID	Part No.	Qty	Description
1	SCA000690	4	F.BUT HD SKT SCREW M6X16 PLATED
2	SCA000263	4	F.SS M6 T NYLOC NUT
3	SCA000254	4	F.SS PWASHER M6 FORM C
4	SCA012933	2	JUBILEE CLIP No 16.50 (235 - 267)
5	SCA025217	1	SUCTION TUBE 180 (7.5')
6	SCA025225	1	WANDER HOSE SLEEVE DIA 177
7	SCA026808	1	TUBE - BOOM EXTENSION KIT
8	SCA031214	1	REDUCING COLLAR - GULLEY EXT.TUBE
9	SCA040870	1	ASSY WANDER HOSE HANDLE (158 DIA)
10	SCA042531	1	180MM WANDER HOSE 7M LG REAR BOOM

Wander boom air operated - wander hose hooks - left hand - Magnum



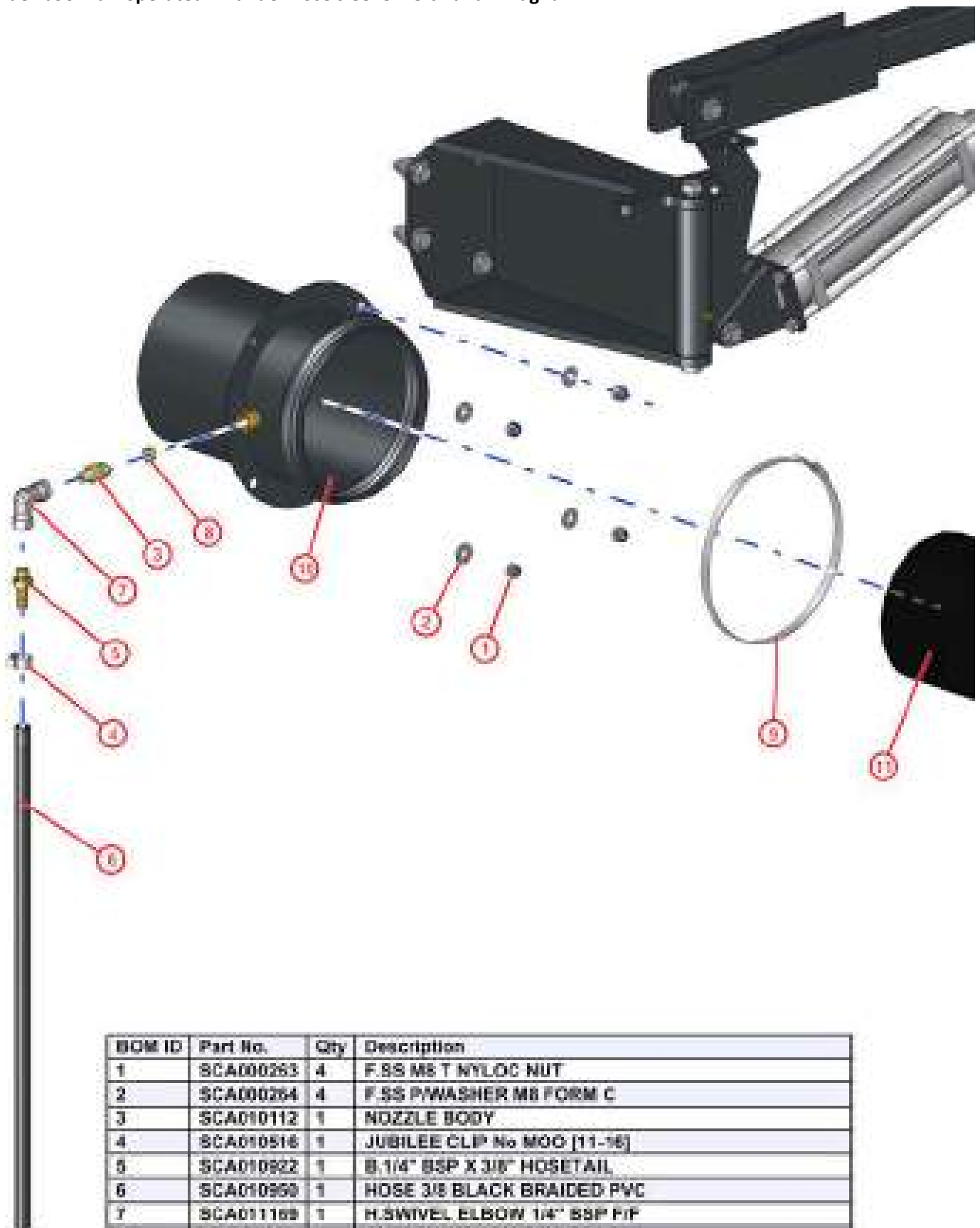
BOM ID	Part No.	Qty	Description
1	SCA000258	8	F.SS HEX SETSCREWS M8 X 30
2	SCA000263	8	F.SS M8 T NYLOC NUT
3	SCA000264	8	F.SS PWASHER M8 FORM C
4	SCA012933	1	JUBILEE CLIP No 10.50 (235 - 267)
5	SCA013507	2	LINCH PIN
6	SCA020711	2	CABLE LEASH
7	SCA022747	2	WANDER PIPE HOOK
8	SCA023599	2	RING PULL WANDERBOOM LATCH
9	SCA025225	1	WANDER HOSE SLEEVE DIA 177
10	SCA030808	2	WANDER BOOM EXT HOOK
11	SCA042531	1	180MM WANDER HOSE 7M LG REAR BOOM

Wander boom air operated - wander hose straps - left hand - Magnum



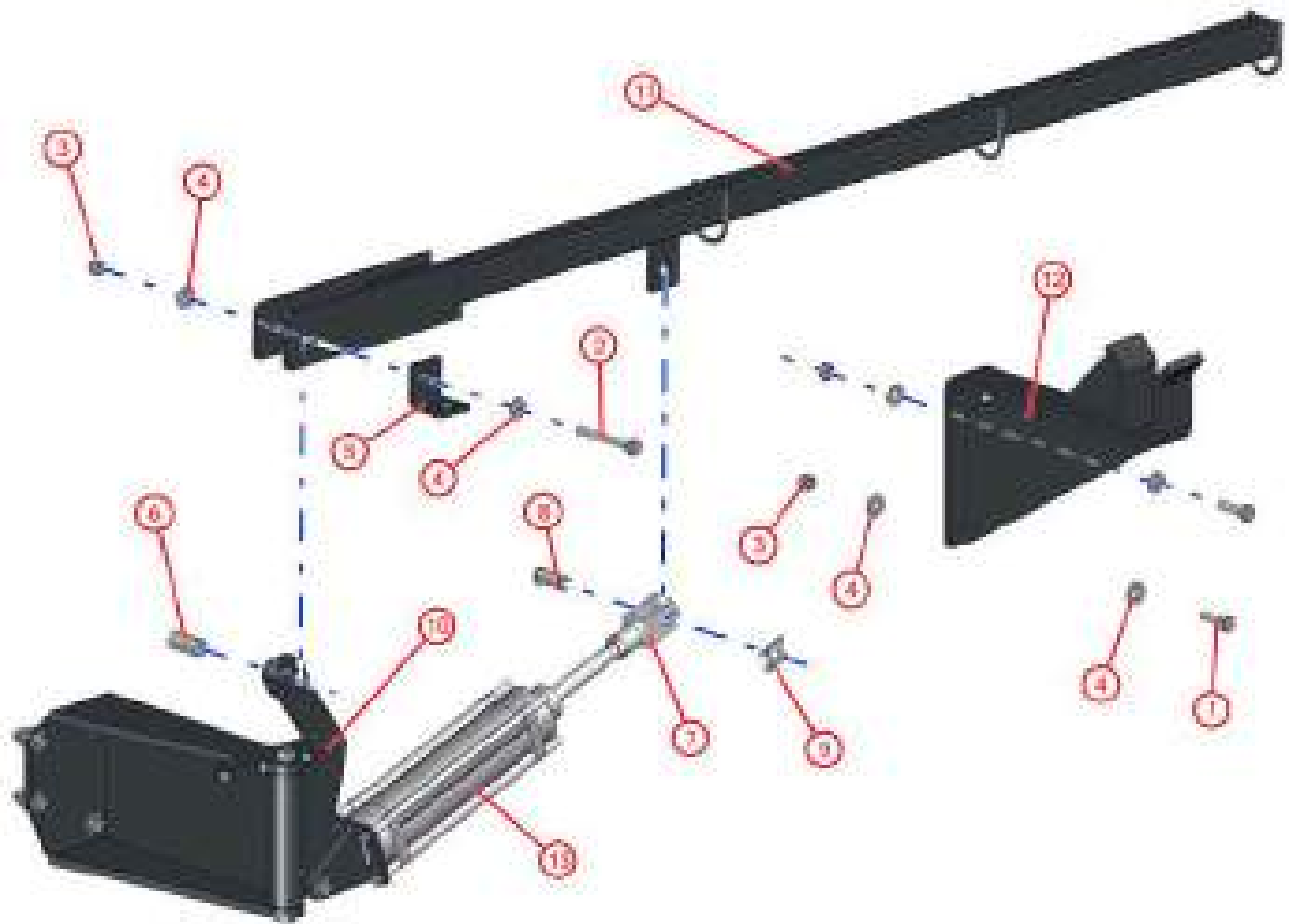
BOM ID	Part No.	Qty	Description
1	SCA010606	4	CARABINER
2	SCA012933	1	JUBILEE CLIP No 10.50 (235 - 267)
3	SCA025225	1	WANDER HOSE SLEEVE DIA 177
4	SCA025235	4	WANDER HOSE STRAP
5	SCA027928	1	HOSE SUPPORT BOOM AIR OPERATED
6	SCA042531	1	180MM WANDER HOSE 7M LG REAR BOOM

Wander boom air operated - wander hose sleeve - left hand - Magnum



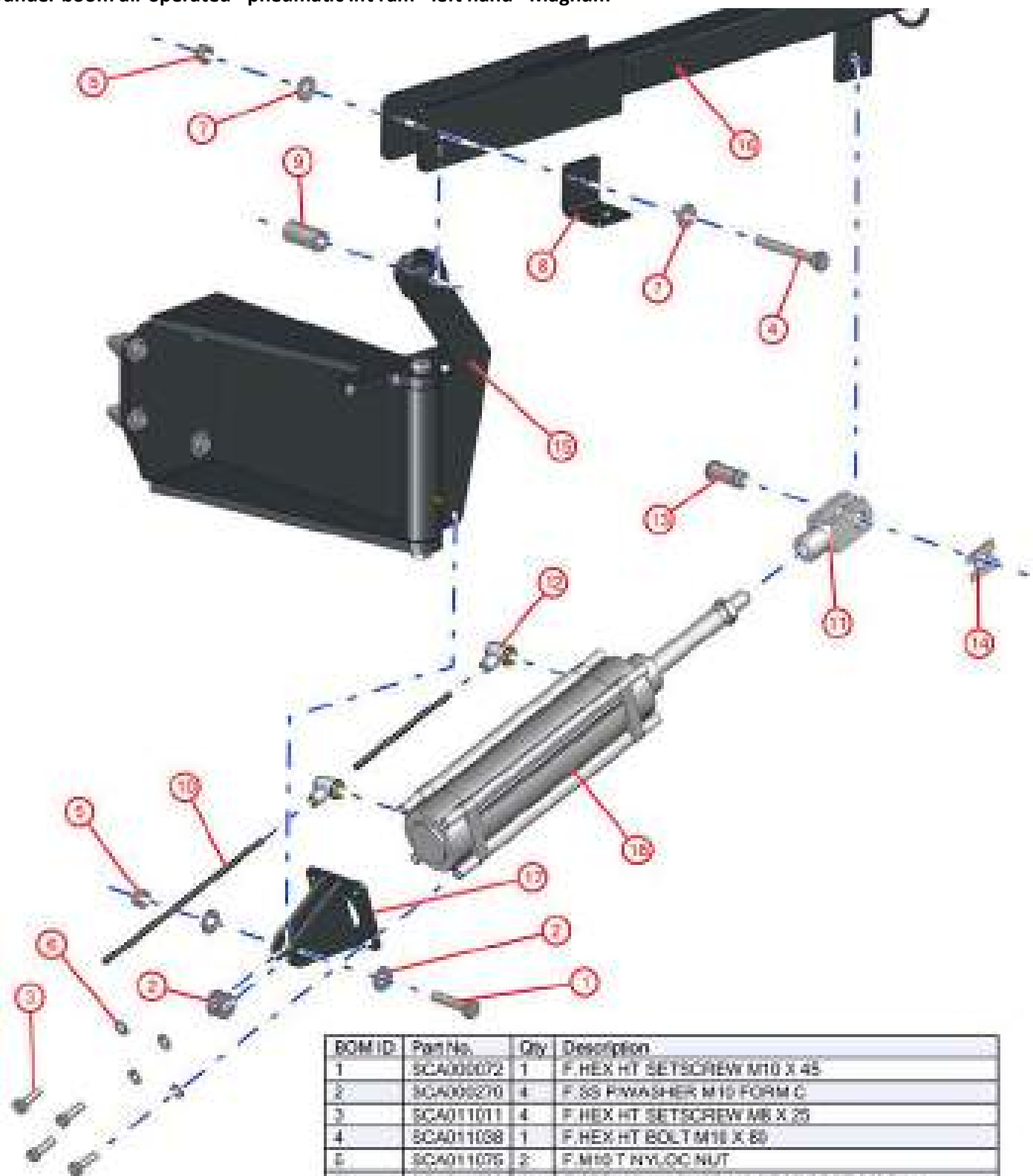
BOM ID	Part No.	Qty	Description
1	SCA000263	4	F.SS M8 T NYLOC NUT
2	SCA000264	4	F.SS PWASHER M8 FORM C
3	SCA010112	1	NOZZLE BODY
4	SCA010516	1	JUBILEE CLIP No M00 (11-16)
5	SCA010922	1	B-1/4" BSP X 3/8" HOSETAIL
6	SCA010960	1	HOSE 3/8 BLACK BRAIDED PVC
7	SCA011169	1	H.SWIVEL ELBOW 1/4" BSP FxP
8	SCA012316	1	SPRAY JET TPU-8004
9	SCA012933	1	JUBILEE CLIP No 10.50 (235 - 267)
10	SCA025225	1	WANDER HOSE SLEEVE DIA 177
11	SCA042531	1	160MM WANDER HOSE 7M LG REAR BOOM

Wander boom air operated - wander boom and stowage - left hand - Magnum



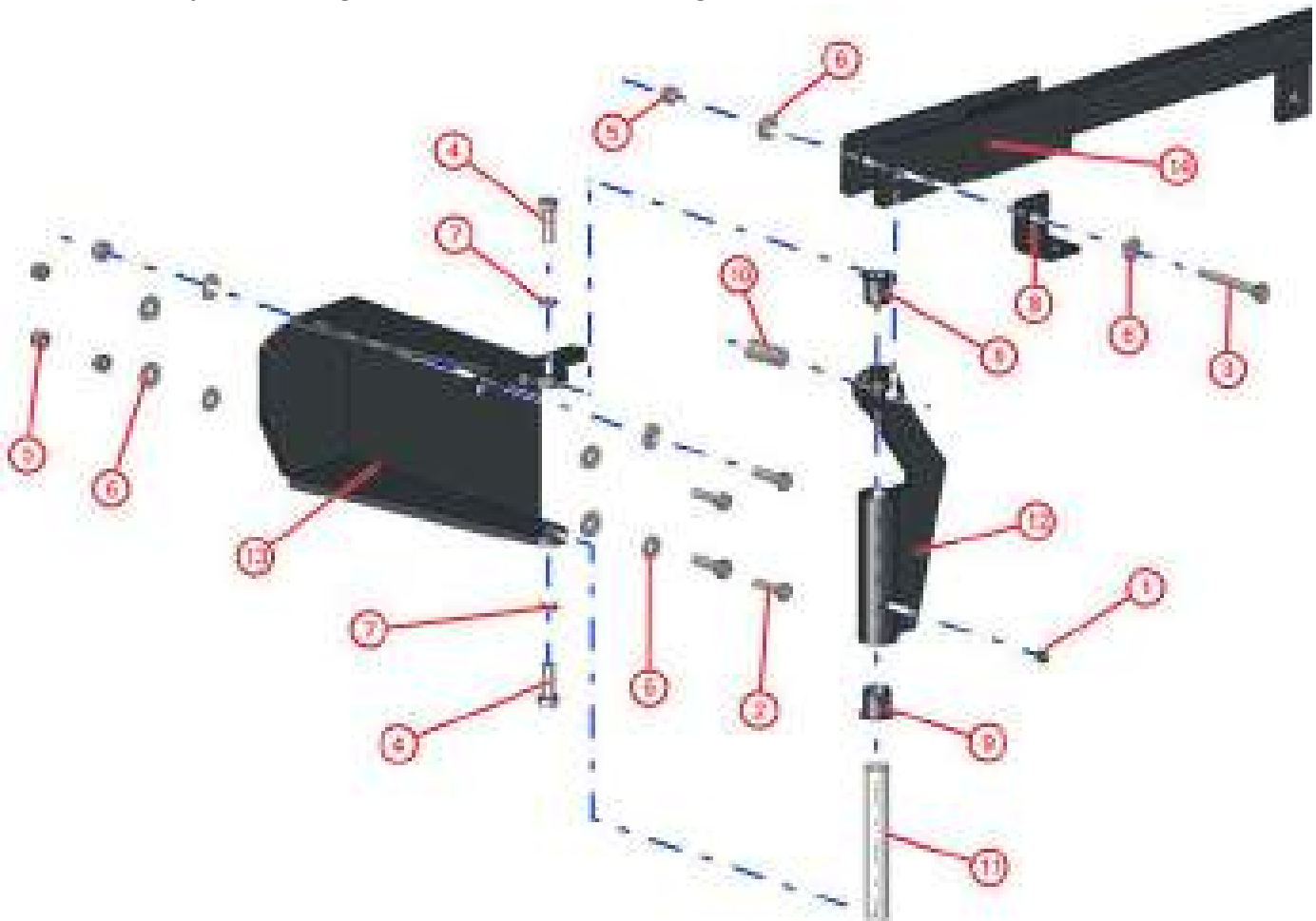
BOM ID	Part No.	Qty	Description
1	SCA011633	2	F.HEX HT SETSCREW M10 X 35
2	SCA011638	1	F.HEX HT BOLT M10 X 80
3	SCA011675	3	F.M16 T NYLOC NUT
4	SCA011694	6	F.PWASHER M10 FORM C
5	SCA012548	1	ANGLE BRACKET
6	SCA014399	1	SPACER 20 X 10.5 X 41 LG
7	SCA020299	1	CLEVIS PNEUMATIC M16 X 1.5
8	SCA022673	1	CLEVIS PIN (TURNED)
9	SCA022674	1	CLIP RETAINING M16
10	SCA025219	1	WANDER HOSE HINGE
11	SCA027926	1	HOSE SUPPORT BOOM AIR OPERATED
12	SCA027929	1	STOWAGE BRKT AIR OPERATED BOOM
13	SCA028306	1	P.PNEUMATIC CYL 63 X 160

Wander boom air operated - pneumatic lift ram - left hand - Magnum



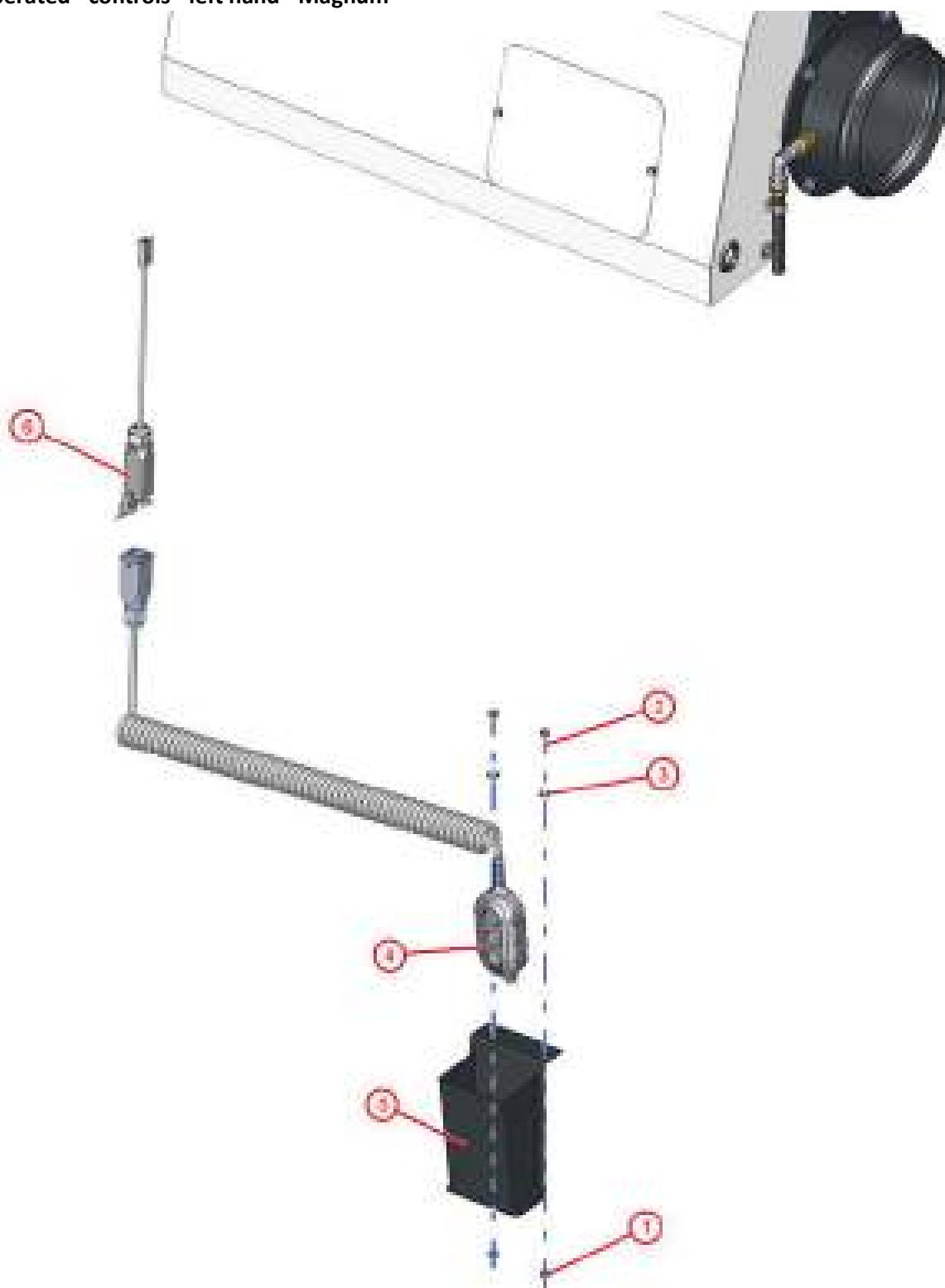
BOM ID	Part No.	Qty	Description
1	SCA000072	1	F. HEX HT SETSCREW M10 X 45
2	SCA000270	4	F. SS F.WASHER M16 FORM C
3	SCA011011	4	F. HEX HT SETSCREW M8 X 25
4	SCA011038	1	F. HEX HT BOLT M10 X 85
5	SCA011075	2	F. M16 T NYLON NUT
6	SCA011080	4	F. SPRING WASHER M8 RECT SECT 300IL
7	SCA011094	2	F. F.WASHER M16 FORM C
8	SCA012548	1	ANGLE BRACKET
9	SCA014399	1	SPACER 20 X 10.5 X 41 LG
10	SCA014572	2	P. 6MM OD X 1MM WT BLACK AIR PIPE
11	SCA020099	1	CLEVIS PNEUMATIC M16 X 1.5
12	SCA021158	2	P. PNEUMATIC FLOW REGULATOR
13	SCA022673	1	CLEVIS PIN (TURNED)
14	SCA023674	1	CLIP RETAINING M16
15	SCA025219	1	WANDER HOSE HINGE
16	SCA027526	1	HOSE SUPPORT BOOM AIR OPERATED
17	SCA028325	1	AIR RAM PIVOT BRKT
18	SCA028306	1	P. PNEUMATIC CYL 53 X 160

Wander boom air operated - hinge and bracket - left hand - Magnum



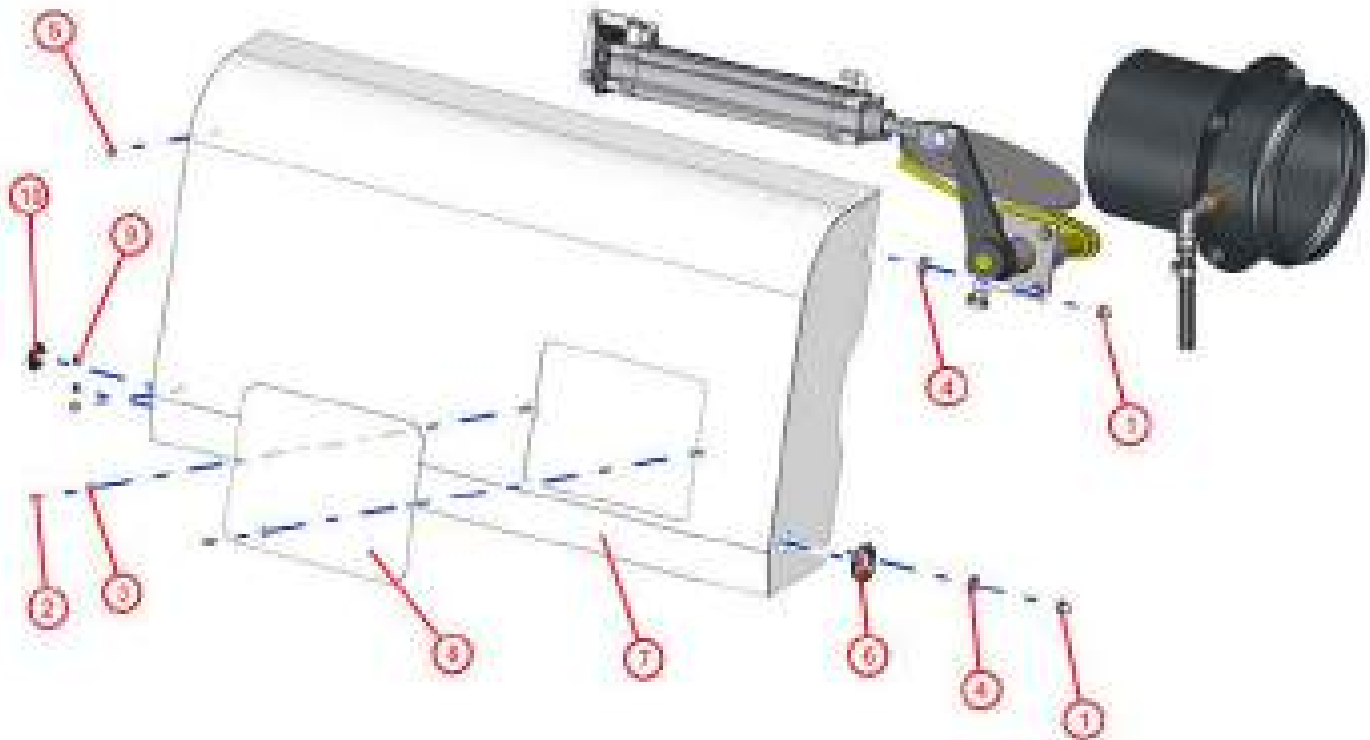
BOM ID	Part No.	Qty	Description
1	SCA010903	1	GREASE NIPPLE 1/8" BSP STR
2	SCA011033	4	F. HEX HT SETSCREW M10 X 35
3	SCA011038	1	F. HEX HT BOLT M10 X 80
4	SCA011063	2	F. HEX HT SETSCREW M12 X 35
5	SCA011075	5	F. M10 T NYLOC NUT
6	SCA011094	10	F. PWASHER M10 FORM C
7	SCA011097	2	F. SPRING WASHER M12 RECT SECT. 500IL
8	SCA012548	1	ANGLE BRACKET
9	SCA013682	2	BUSH BRUSH PIVOTS
10	SCA014389	1	SPACER 20 X 10.5 X 41 LG
11	SCA023490	1	HINGE SHAFT BOOM
12	SCA026219	1	WANDER HOSE HINGE
13	SCA026220	1	WANDER HOSE SUPPORT LH
14	SCA027926	1	HOSE SUPPORT BOOM AIR OPERATED

Wander boom air operated - controls - left hand - Magnum



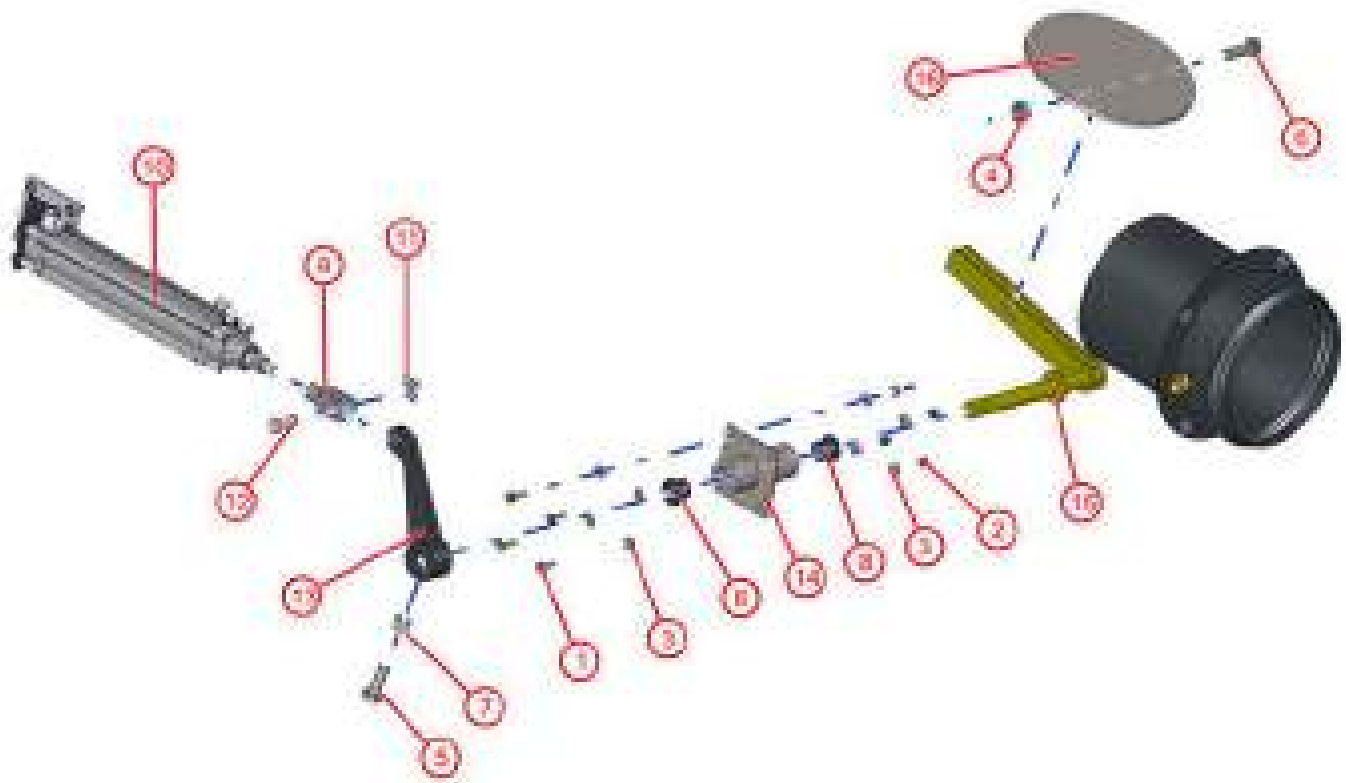
BOM ID	Part No.	Qty	Description
1	SCA011071	2	F M6 T NYLOC NUT
2	SCA011087	2	F HEX HT SETSCREW M6 X 25
3	SCA011090	2	F PWASHER M6 FORM C
4	SCA028267	1	3 BUTTON PENDANT WITH SPIRAL CABLE
5	SCA028355	1	PENDANT HOLSTER REAR AIR OPERATED BOOM
6	SCA030915	1	WIRING LOOM V3 AIR OP REAR BOOM

Wander boom air operated - blanking cover - left hand - Magnum



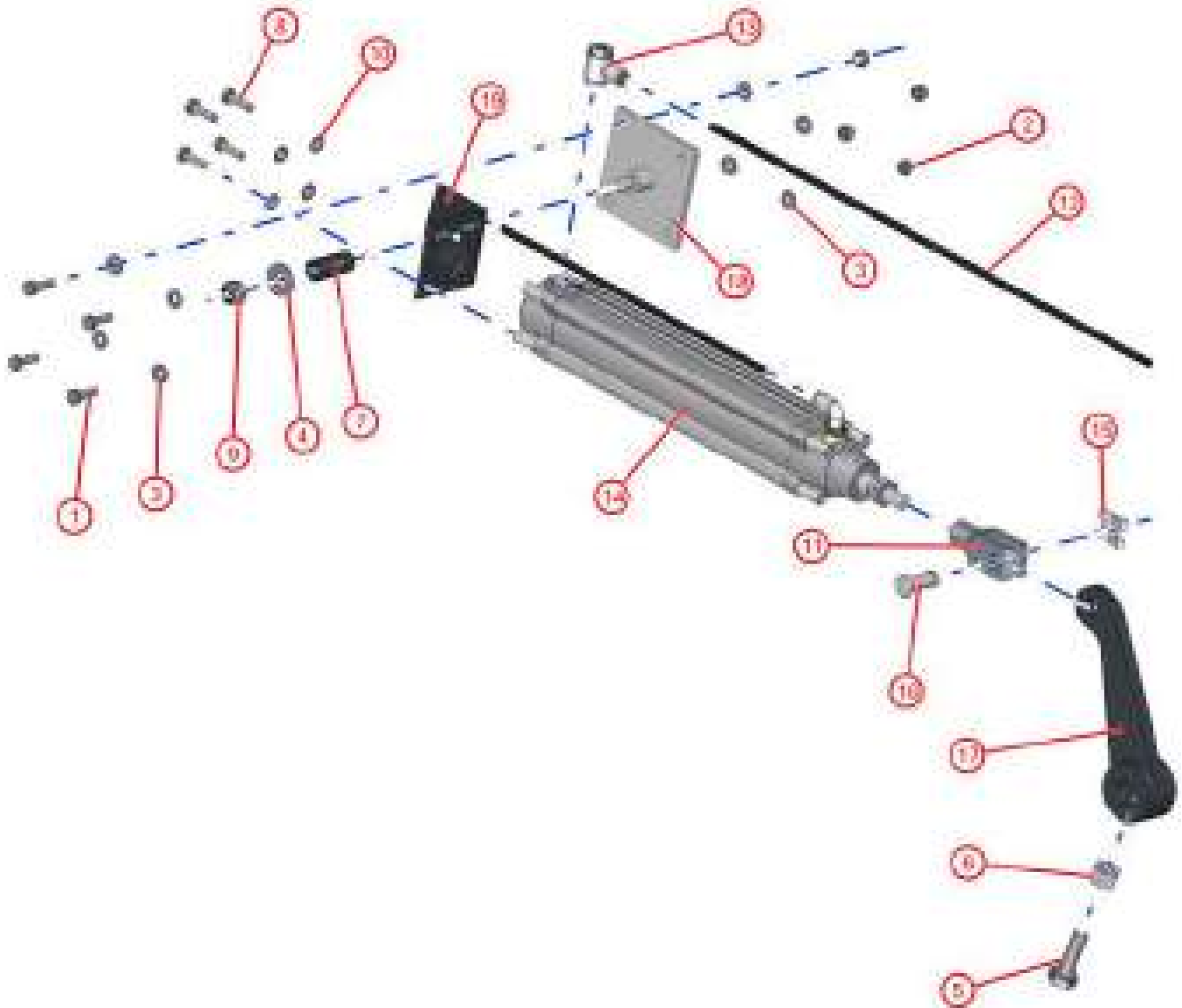
BOM ID	Part No.	Qty	Description
1	SCA000089	2	M6 DOME NUT
2	SCA000097	2	F HEX BOLT M5 X 12
3	SCA000411	2	F M5 S/COIL SPRING WASHER
4	SCA011092	2	F PIN WASHER M6 FORM C
5	SCA011131	2	F SEAL BLIND RIVET 4.8x18
6	SCA012542	1	GROMMET 1"
7	SCA026104	1	COVER LH RAM WANDERHOSE BLANKING MAGNUM
8	SCA030675	1	INSPECTION PLATE COVER RAM WHOSE BLANK MAG
9	SCA044263	2	GROMMET BLANKING 5.0 DIA
10	SCA048222	1	BLANKING GROMMET 25.4MM (1.6MM PLATE)

Wander boom air operated - blanking flap - left hand - Magnum



BOM ID	Part No.	Qty	Description
1	SCA000252	4	F.SS HEX SETSCREW M6 X 20
2	SCA000253	4	F.SS M6 T NYLOC NUT
3	SCA000254	8	F.SS PWASHER M6 FORM C
4	SCA000275	1	F.SS M12 T NYLOC NUT
5	SCA000276	1	F.SS HEX SETSCREW M12 X 1.25 X 35
6	SCA000278	1	F.SS HEX SETSCREW M12 X 40
7	SCA000279	1	F.SS HEX FULL NUT M12 X 1.25 FINE
8	SCA013488	2	BUSH
9	SCA014489	1	CLEVIS, AIR CYLINDER M12
10	SCA021487	1	P PNEUMATIC CYLINDER 40 X 200
11	SCA023269	1	SAFETY FASTENER 12
12	SCA023270	1	CLEVIS PIN 12
13	SCA025254	1	FLAP LEVER WANDER HOSE
14	SCA025471	1	PIVOT TUBE WANDER HOSE FLAP
15	SCA025475	1	FLAP ARM WANDER HOSE
16	SCA025487	1	WANDER HOSE FLAP MAJOR

Wander boom air operated - blanking pneumatic ram - left hand - Magnum



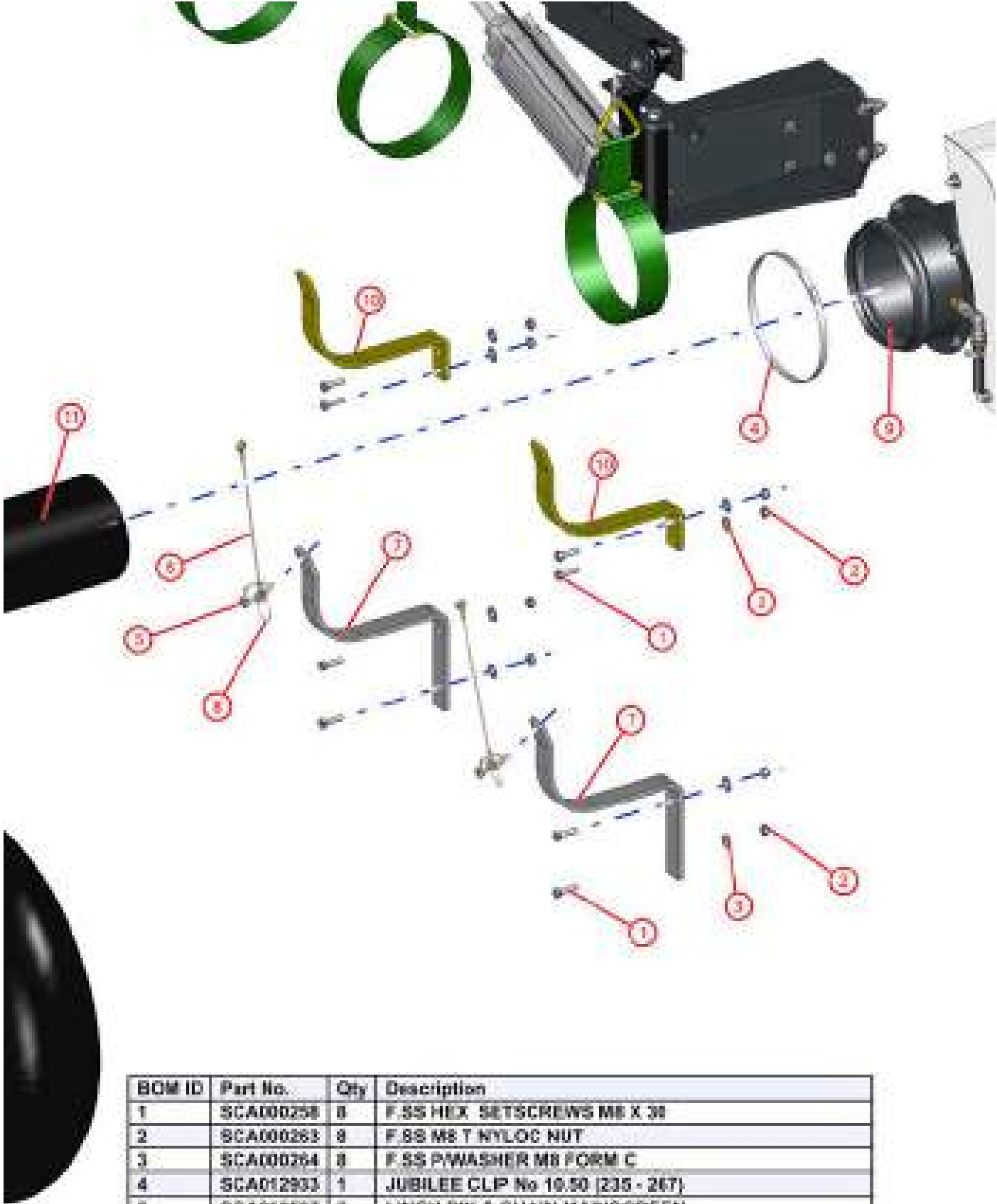
BOM ID	Part No.	Qty	Description
1	SCA000252	4	F SS HEX SETSCREW M6 X 20
2	SCA000253	4	F SS M6 T NYLOC NUT
3	SCA000254	8	F SS PWASHER M6 FORM C
4	SCA000270	1	F SS PWASHER M10 FORM C
5	SCA000276	1	F SS HEX SETSCREW M12 X 1.25 X 30
6	SCA000270	1	F SS HEX FULL NUT M12 X 1.25 FINE
7	SCA010950	1	HOSE 3/8 BLACK BRAIDED PVC
8	SCA011067	4	F HEX HT SETSCREW M6 X 20
9	SCA011075	1	F M16 T NYLOC NUT
10	SCA011091	4	F SPRING WASHER M6 RECT SECT S/COLL
11	SCA014469	1	CLEVIS, AIR CYLINDER M12
12	SCA014572	2	P 8MM OD X 1MM WT BLACK AIR PIPE
13	SCA021158	1	P PNEUMATIC FLOW REGULATOR
14	SCA021467	1	P PNEUMATIC CYLINDER 40 X 200
15	SCA022069	1	SAFTY FASTENER 12
16	SCA023270	1	CLEVIS PIN 12
17	SCA025254	1	FLAP LEVER WANDER HOSE
18	SCA025524	1	PIVOT [BOLT ON] RAM - WHOSE FLAP
19	SCA030532	1	AIR RAM MTS BRACKET, WIDESWEEP

Wander boom air operated - wander hose and tubes - right hand - Magnum



BOM ID	Part No.	Qty	Description
1	SCA000090	4	F BUT HD SKT SCREW M6X16 PLATED
2	SCA000253	4	F.55 M6 T NYLOC NUT
3	SCA000254	4	F.55 P/WASHER M6 FORM C
4	SCA012933	2	JUBILEE CLIP No 10.50 (235 - 267)
5	SCA025217	1	SUCTION TUBE 180 (7.5")
6	SCA025225	1	WANDER HOSE SLEEVE DIA 177
7	SCA026608	1	TUBE - BOOM EXTENSION KIT
8	SCA031214	1	REDUCING COLLAR - GULLEY EXT.TUBE
9	SCA040676	1	ASSY WANDER HOSE HANDLE (180 DIA)
10	SCA042531	1	100MM WANDER HOSE 7M LG REAR BOOM

Wander boom air operated - wander hose hooks - right hand - Magnum



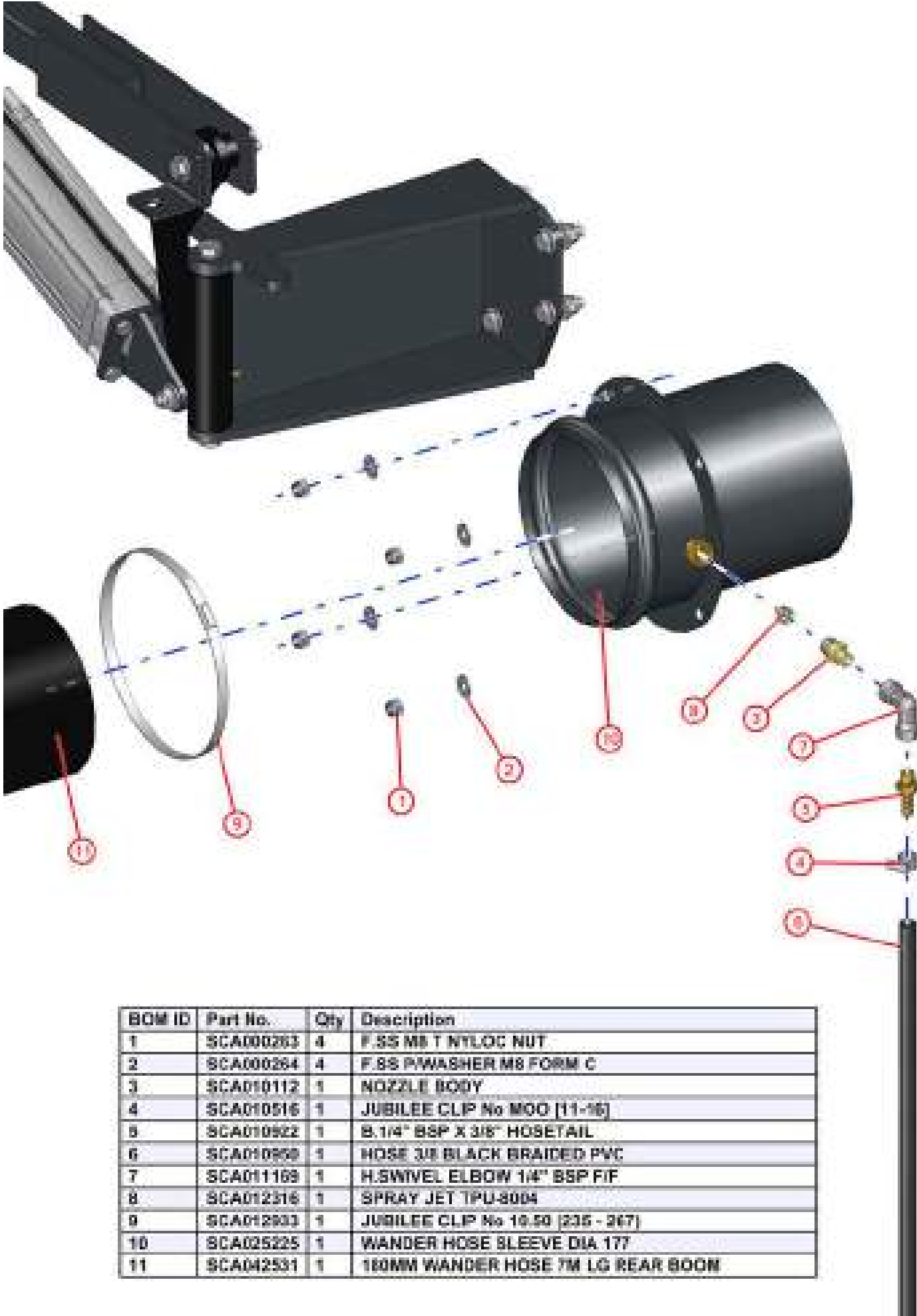
BOM ID	Part No.	Qty	Description
1	SCA000258	8	F.55 HEX SETSCREWS M8 X 30
2	SCA000263	8	F.88 M8 T NYLOC NUT
3	SCA000264	8	F.55 PWASHER M8 FORM C
4	SCA012903	1	JUBILEE CLIP No 10.50 (235 - 267)
5	SCA013507	2	LINCH PIN & CHAIN MAINSCREEN
6	SCA020711	2	CABLE LEASH
7	SCA022747	2	WANDER PIPE HOOK
8	SCA023509	2	RING PULL WANDERBOOM LATCH
9	SCA025225	1	WANDER HOSE SLEEVE DIA 177
10	SCA030808	2	WANDER BOOM EXT HOOK
11	SCA042531	1	180MM WANDER HOSE 7M LG REAR BOOM

Wander boom air operated - wander hose straps - right hand - Magnum



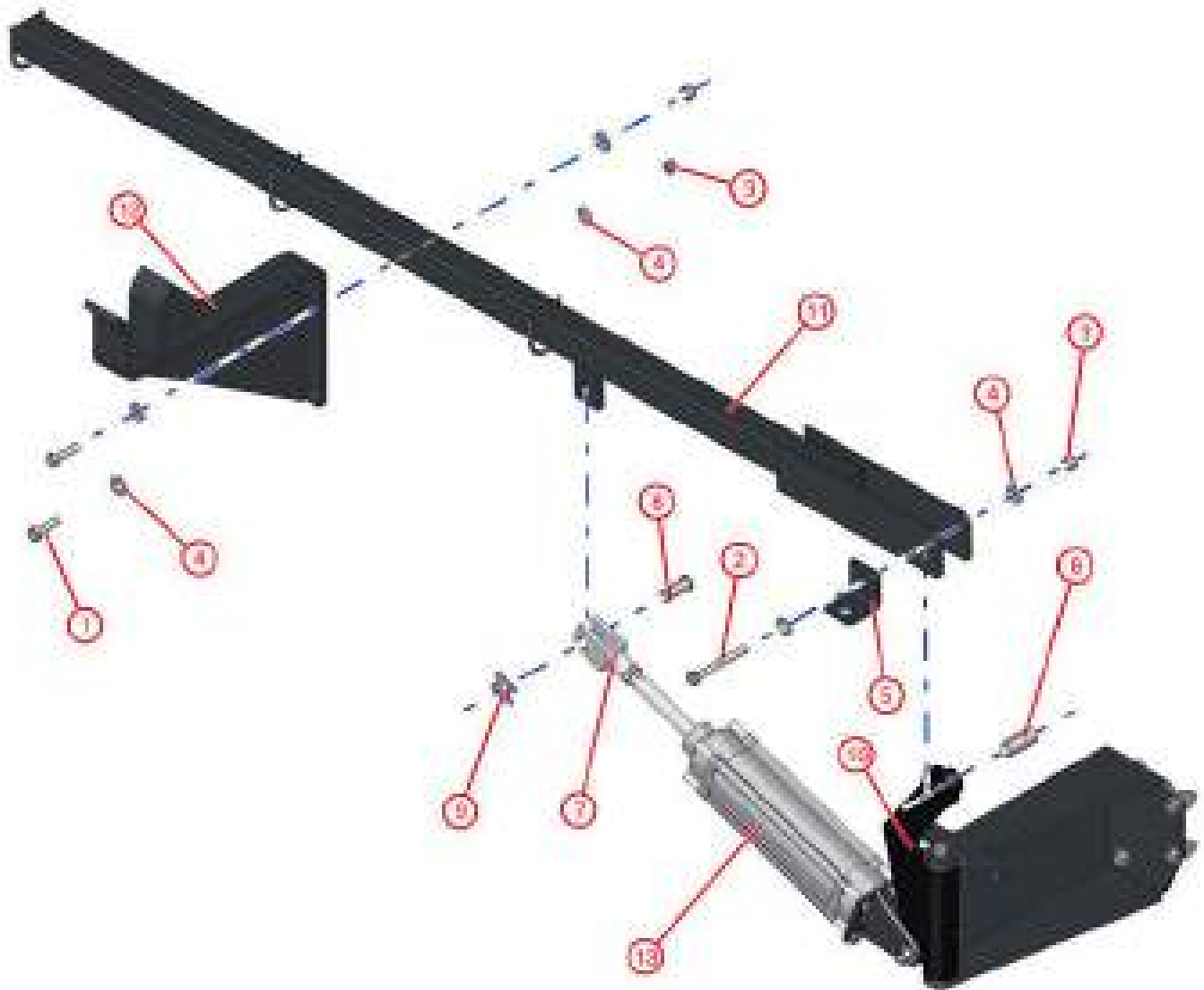
BOM ID	Part No.	Qty	Description
1	SCA010606	4	CARABINER
2	SCA012548	1	ANGLE BRACKET
3	SCA012933	1	JUBILEE CLIP No 10.50 (235 - 267)
4	SCA025225	1	WANDER HOSE SLEEVE DIA 177
5	SCA025235	4	WANDER HOSE STRAP
6	SCA027926	1	HOSE SUPPORT BOOM AIR OPERATED
7	SCA042531	1	180MM WANDER HOSE 7M LG REAR BOOM

Wander boom air operated - wander hose sleeve - right hand - Magnum



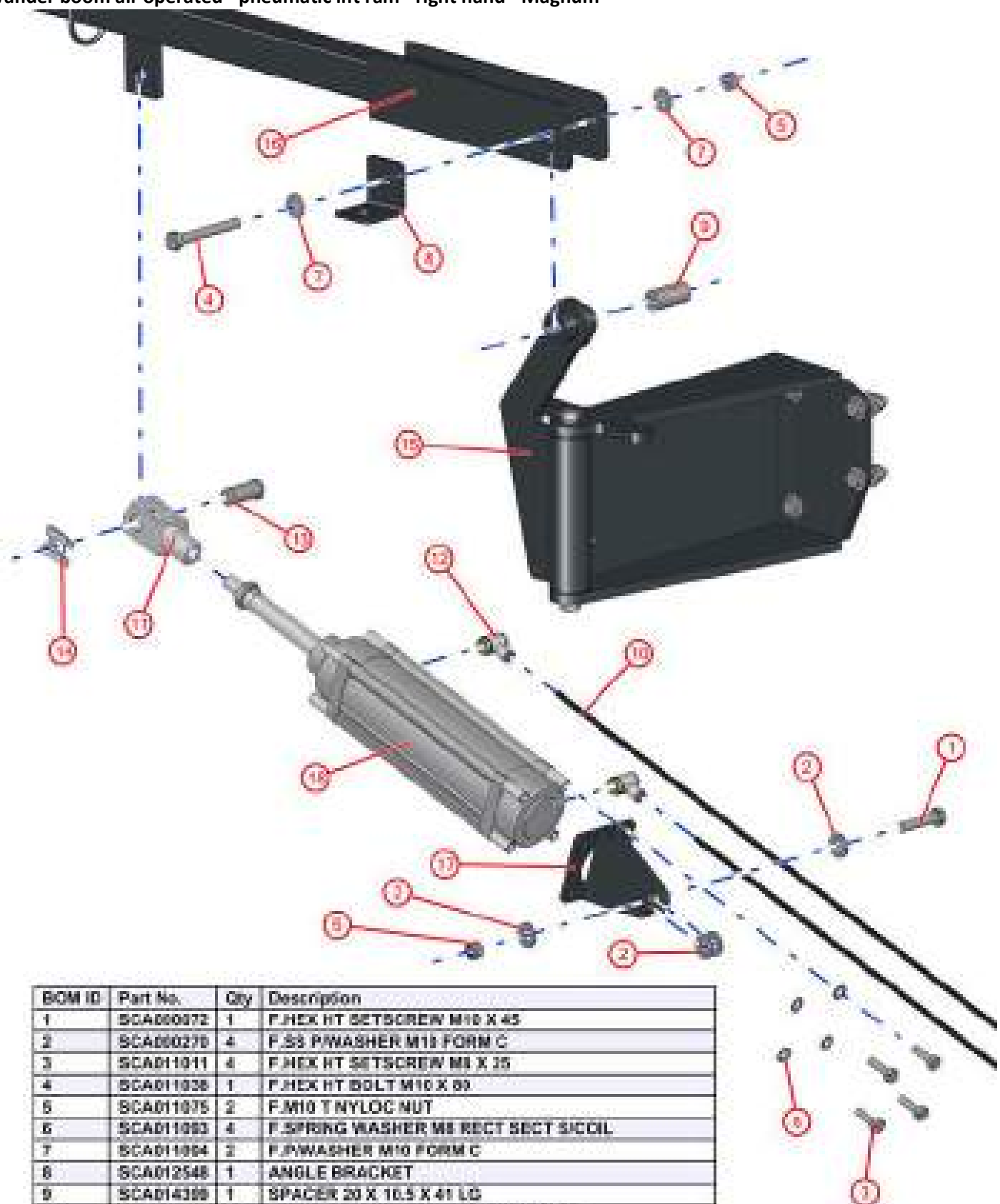
BOM ID	Part No.	Qty	Description
1	SCA000263	4	F.55 M8 T NYLOC NUT
2	SCA000264	4	F.88 PWASHER M8 FORM C
3	SCA010112	1	NOZZLE BODY
4	SCA010516	1	JUBILEE CLIP No M00 [11-16]
5	SCA010522	1	B.1/4" BSP X 3/8" HOSETAIL
6	SCA010569	1	HOSE 3/8 BLACK BRAIDED PVC
7	SCA011169	1	H.5WIVEL ELBOW 1/4" BSP F/F
8	SCA012316	1	SPRAY JET TPU-8004
9	SCA012633	1	JUBILEE CLIP No 10.50 [235 - 267]
10	SCA025225	1	WANDER HOSE SLEEVE DIA 177
11	SCA042531	1	180MM WANDER HOSE 7M LG REAR BOOM

Wander boom air operated - wander boom and stowage - right hand - Magnum



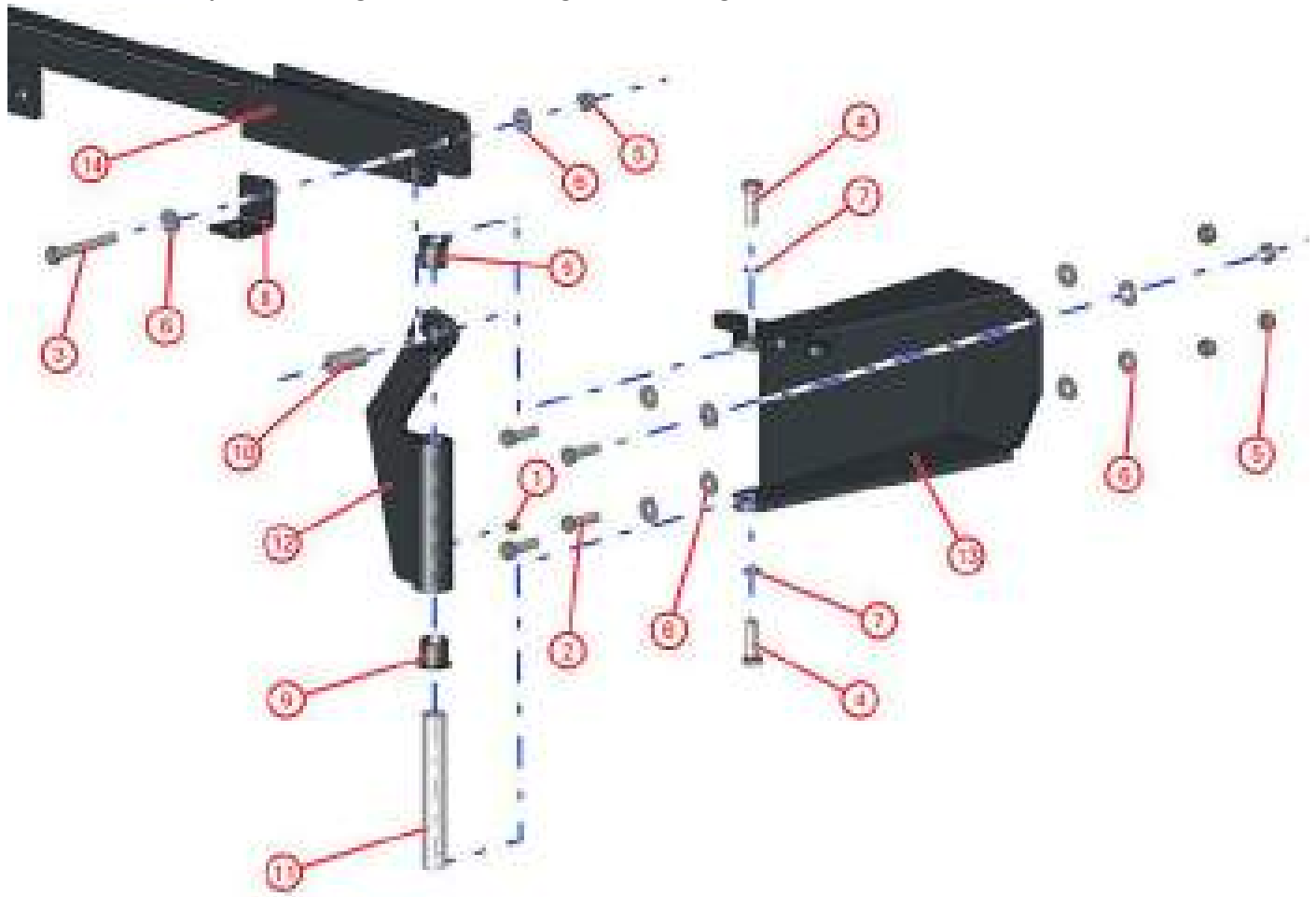
BOM ID	Part No.	Qty	Description
1	SCA011033	2	F.HEX HT SETSCREW M10 X 35
2	SCA011038	1	F.HEX HT BOLT M10 X 60
3	SCA011075	3	F.M16 T NYLOC NUT
4	SCA011094	6	F.P.WASHER M10 FORM C
5	SCA012548	1	ANGLE BRACKET
6	SCA014399	1	SPACER 20 X 10.5 X 41 LG
7	SCA020799	1	CLEVIS PNEUMATIC M16 X 1.5
8	SCA022673	1	CLEVIS FIN (TURNED)
9	SCA022674	1	CLIP RETAINING M16
10	SCA035219	1	WANDER HOSE HINGE
11	SCA027928	1	HOSE SUPPORT BOOM AIR OPERATED
12	SCA027929	1	STOWAGE BRKT AIR OPERATED BOOM
13	SCA030306	1	P.PNEUMATIC CYL 63 X 160

Wander boom air operated - pneumatic lift ram - right hand - Magnum



BOM ID	Part No.	Qty	Description
1	SCA000072	1	F.HEX HT SETSCREW M10 X 45
2	SCA000270	4	F.S3 P/WASHER M10 FORM C
3	SCA011011	4	F.HEX HT SETSCREW M8 X 35
4	SCA011038	1	F.HEX HT BOLT M10 X 80
5	SCA011075	2	F.M10 TNYLOC NUT
6	SCA011083	4	F.SPRNG WASHER M8 RECT SECT SICIL
7	SCA011094	2	F.P/WASHER M10 FORM C
8	SCA012548	1	ANGLE BRACKET
9	SCA014309	1	SPACER 20 X 10.5 X 41 LG
10	SCA014573	2	P.6MM OD X 1MM WT BLACK AIR PIPE
11	SCA020286	1	CLEVIS PNEUMATIC M16 X 1.5
12	SCA021158	2	P.PNEUMATIC FLOW REGULATOR
13	SCA022673	1	CLEVIS PIN (TURNED)
14	SCA022674	1	CLIP RETAINING M10
15	SCA023219	1	WANDER HOSE HINGE
16	SCA027926	1	HOSE SUPPORT BOOM AIR OPERATED
17	SCA028305	1	AIR RAM PIVOT BRKT
18	SCA030306	1	P.PNEUMATIC CYL 63 X 100

Wander boom air operated - hinge and bracket - right hand - Magnum



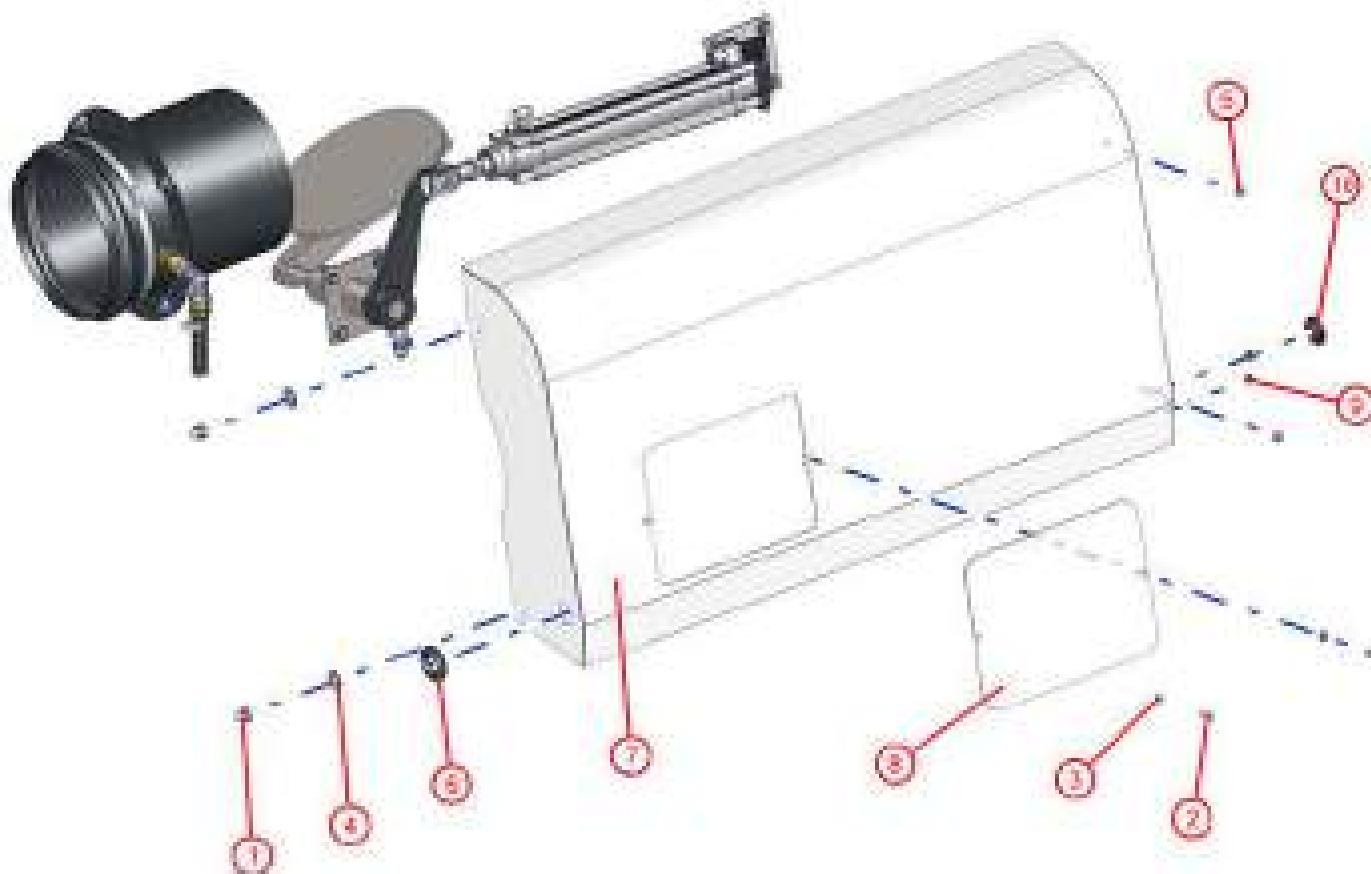
BOM ID	Part No.	Qty	Description
1	SCA010903	1	GREASE NIPPLE 1/8" B&P 8TR
2	SCA011033	4	F.HEX HT SETSCREW M10 X 35
3	SCA011038	1	F.HEX HT BOLT M10 X 80
4	SCA011093	2	F.HEX HT SETSCREW M12 X 35
5	SCA011075	5	F.M10 T NYLOC NUT
6	SCA011094	10	F.PIWASHER M10 FORM C
7	SCA011097	2	F.SPRING WASHER M12 RECT SECT S/COL
8	SCA012548	1	ANGLE BRACKET
9	SCA013662	2	BUSH BRUSH PIVOTS
10	SCA014399	1	SPACER 20 X 10.5 X 41 LG
11	SCA023490	1	HINGE SHAFT BOOM
12	SCA025219	1	WANDER HOSE HINGE
13	SCA025574	1	WANDER HOSE SUPPORT RH MAJOR/MAXIM
14	SCA027926	1	HOSE SUPPORT BOOM AIR OPERATED

Wander boom air operated - controls - right hand - Magnum



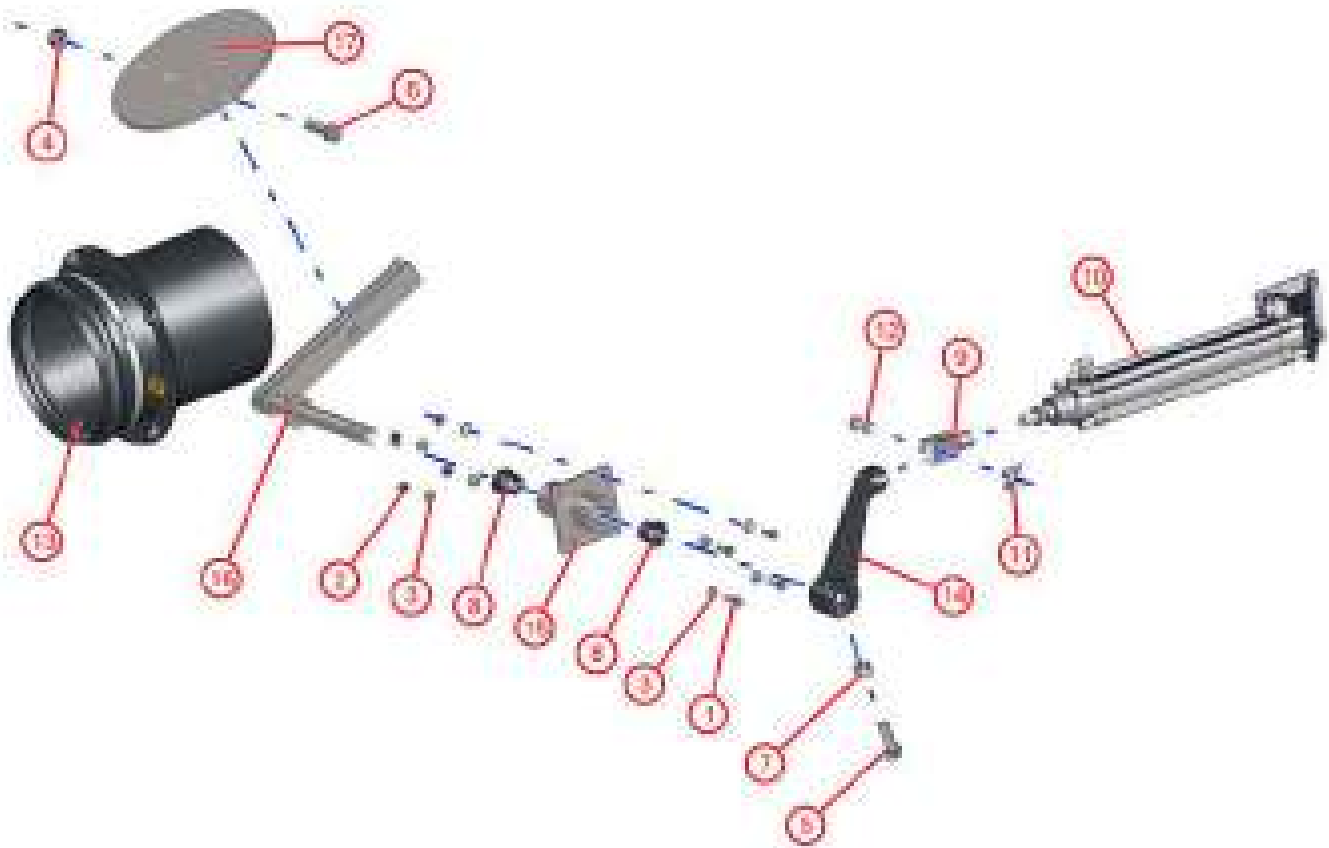
BOM ID	Part No.	Qty	Description
1	SCA011071	2	F.M6 T NYLOC NUT
2	SCA011087	2	F.HEX HT SETSCREW M6 X 25
3	SCA011090	2	F.PIWASHER M6 FORM C
4	SCA028267	1	3 BUTTON PENDANT WITH SPIRAL CABLE
5	SCA028355	1	PENDANT HOLSTER REAR AIR OPERATED BOOM
6	SCA036919	1	WIRING LOOM V3 AIR OP REAR BOOM

Wander boom air operated - blanking cover - right hand - Magnum



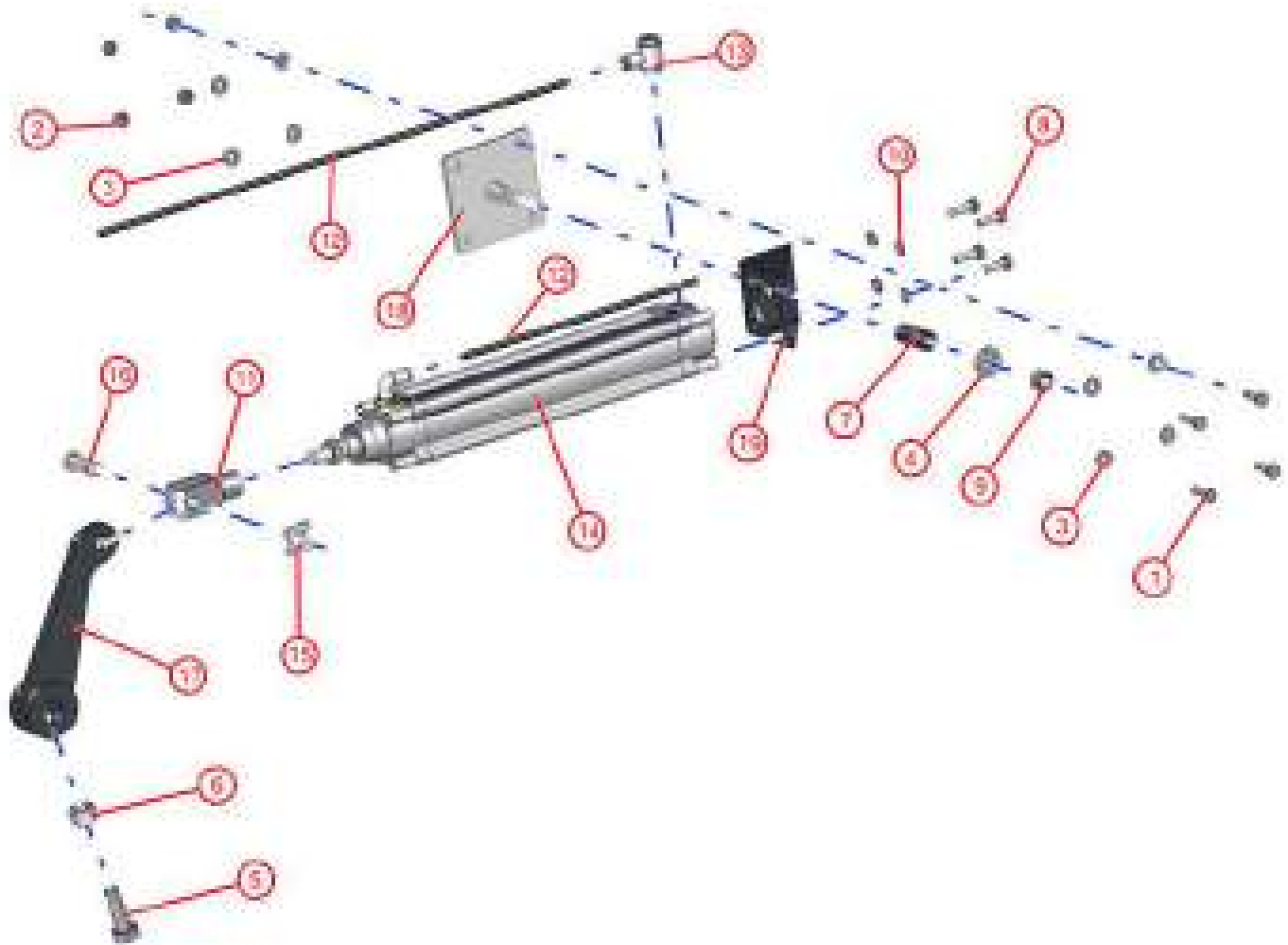
BOM ID	Part No.	Qty	Description
1	SCA000089	2	M8 DOME NUT
2	SCA000097	2	F. HEX BOLT M5 X 12
3	SCA000411	2	F. M5 S/COIL SPRING WASHER
4	SCA011092	2	F. P/WASHER M8 FORM C
5	SCA011131	2	F. SEAL BLIND RIVET 4.8x18
6	SCA013542	1	GROMMET 1"
7	SCA026185	1	COVER RH RAM WANDERHOSE BLANKING MAGNUM
8	SCA030675	1	INSPECTION PLATE COVER RAM WHOSE BLANK MAG
9	SCA044263	2	GROMMET BLANKING 5.8 DIA
10	SCA048222	1	BLANKING GROMMET 25.4MM (1.8MM PLATE)

Wander boom air operated - blanking flap - right hand - Magnum



BOM ID	Part No.	Qty	Description
1	SCA000252	4	F.SS HEX SETSCREW M6 X 20
2	SCA000253	4	F.SS M6 T NYLOC NUT
3	SCA000254	8	F.SS PWASHER M6 FORM C
4	SCA000275	1	F.SS M12 T NYLOC NUT
5	SCA000276	1	F.SS HEX SETSCREW M12 X 1.25 X 35
6	SCA000278	1	F.SS HEX SETSCREW M12 X 40
7	SCA000279	1	F.SS HEX FULL NUT M12 X 1.25 FINE
8	SCA013488	2	BUSH
9	SCA014469	1	CLEVIS, AIR CYLINDER, M12.
10	SCA021487	1	P.PNEUMATIC CYLINDER 40 X 100
11	SCA023269	1	SAFETY FASTENER 12
12	SCA023270	1	CLEVIS PIN 12
13	SCA025225	1	WANDER HOSE SLEEVE DIA 177
14	SCA025254	1	FLAP LEVER WANDER HOSE
15	SCA025471	1	PNOT TUBE WANDER HOSE FLAP
16	SCA025476	1	FLAP ARM WANDER HOSE
17	SCA025487	1	WANDER HOSE FLAP MAJOR

Wander boom air operated - blanking pneumatic ram - right hand - Magnum



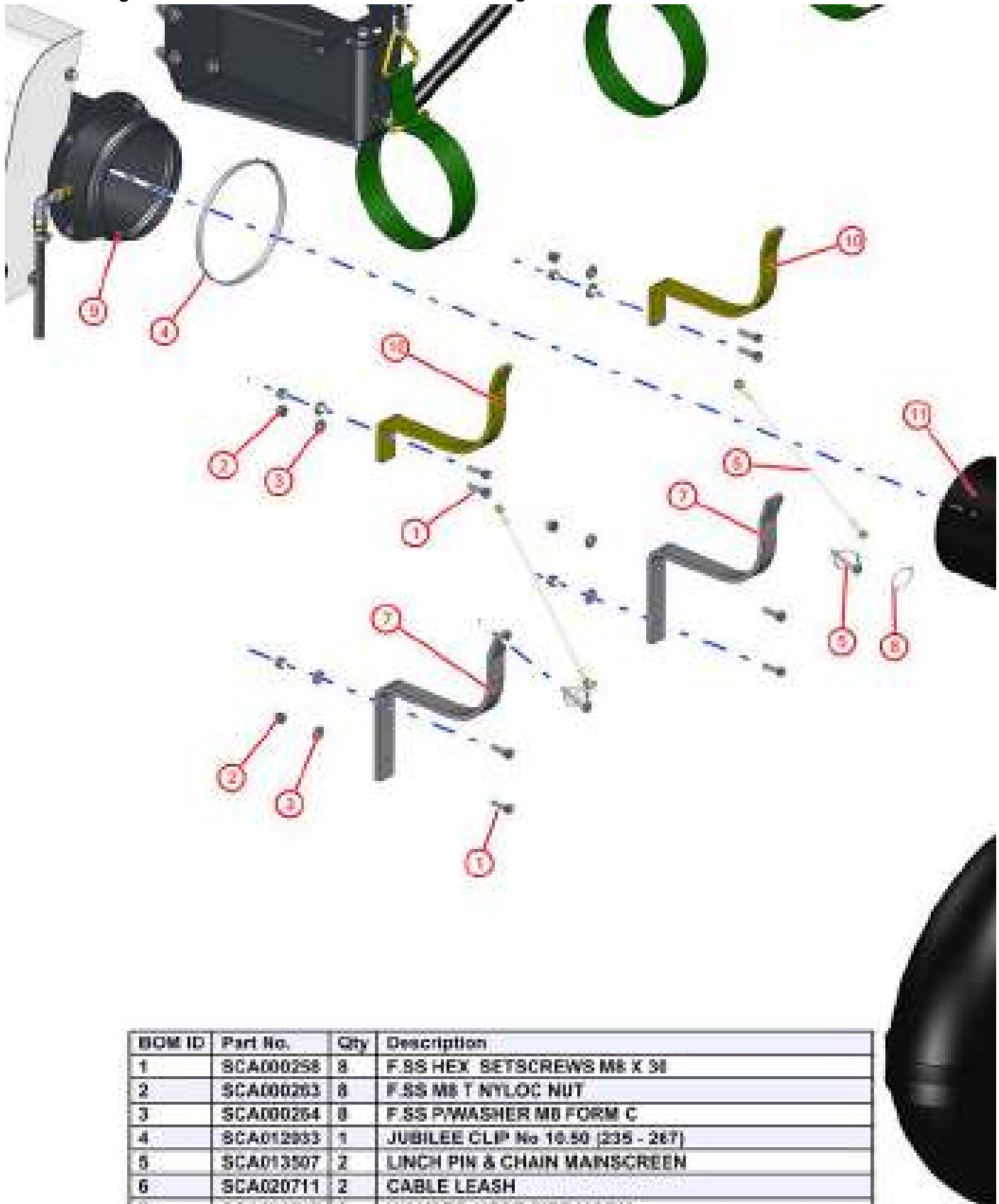
BOM ID	Part No.	Qty	Description
1	SCA000252	4	F.SS HEX SETSCREW M6 X 20
2	SCA000253	4	F.SS M6 T NYLOC NUT
3	SCA000254	8	F.SS PWASHER M6 FORM C
4	SCA000270	1	F.SS PWASHER M10 FORM C
5	SCA000276	1	F.SS HEX SETSCREW M12 X 1.25 X 35
6	SCA000279	1	F.SS HEX FULL NUT M12 X 1.25 FINE
7	SCA010950	1	HOSE 3/8 BLACK BRAIDED PVC
8	SCA011067	4	F.HEX HT SETSCREW M6 X 20
9	SCA011075	1	F.M10 T NYLOC NUT
10	SCA011091	4	F.SPRING WASHER M6 RECT SECT S&COIL
11	SCA014469	1	CLEVIS, AIR CYLINDER, M12.
12	SCA014572	2	P.6MM OD X 1MM WT BLACK AIR PIPE
13	SCA021158	1	P.PNEUMATIC FLOW REGULATOR
14	SCA021467	1	P.PNEUMATIC CYLINDER 40 X 300
15	SCA023269	1	SAFETY FASTENER 12
16	SCA023279	1	CLEVIS PIN 12
17	SCA025264	1	FLAP LEVER WANDER HOSE
18	SCA025524	1	PNUT [BOLT ON] RAM - WHOSE FLAP
19	SCA030532	1	AIR RAM MTG BRACKET, WIDESWEEP

Wander boom gas strut - wander hose and tubes - left hand - Magnum



BOM ID	Part No.	Qty	Description
1	SCA000690	4	F.BUT HD SKT SCREW M6X16 PLATED
2	SCA000263	4	F.SS M6 T NYLOC NUT
3	SCA000254	4	F.SS P/WASHER M6 FORM C
4	SCA012933	2	JUBILEE CLIP No 16.50 (235 - 267)
5	SCA025217	1	SUCTION TUBE 180 (7.5")
6	SCA025225	1	WANDER HOSE SLEEVE DIA 177
7	SCA026808	1	TUBE - BOOM EXTENSION KIT
8	SCA031214	1	REDUCING COLLAR - GULLEY EXT.TUBE
9	SCA040870	1	ASSY WANDER HOSE HANDLE (158 DIA)
10	SCA042531	1	180MM WANDER HOSE 7M LG REAR BOOM

Wander boom gas strut - wander hose hooks - left hand - Magnum



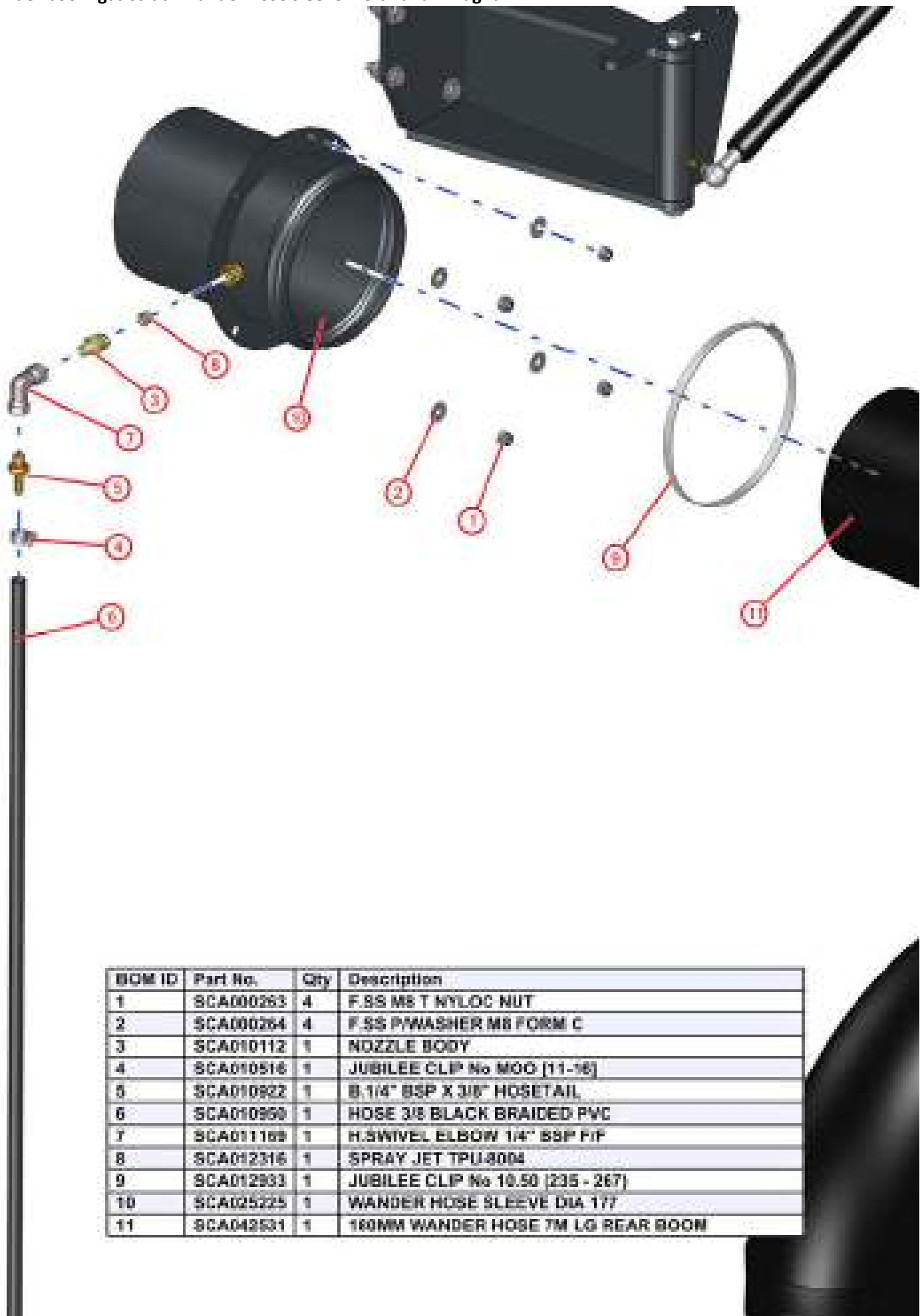
BOM ID	Part No.	Qty	Description
1	SCA000258	8	F.SS HEX SETSCREWS M8 X 30
2	SCA000263	8	F.SS M8 T NYLOC NUT
3	SCA000264	8	F.SS PWASHER M8 FORM C
4	SCA012933	1	JUBILEE CLIP No 10.50 (235 - 267)
5	SCA013507	2	LINCH PIN & CHAIN MAINSCREEN
6	SCA020711	2	CABLE LEASH
7	SCA022747	2	WANDER HOSE PIPE HOOK
8	SCA023599	2	RING PULL WANDERBOOM LATCH
9	SCA025225	1	WANDER HOSE SLEEVE DIA 177
10	SCA030808	2	WANDER BOOM EXT HOOK
11	SCA042531	1	180MM WANDER HOSE 7M LG REAR BOOM

Wander boom gas strut - wander hose straps - left hand - Magnum



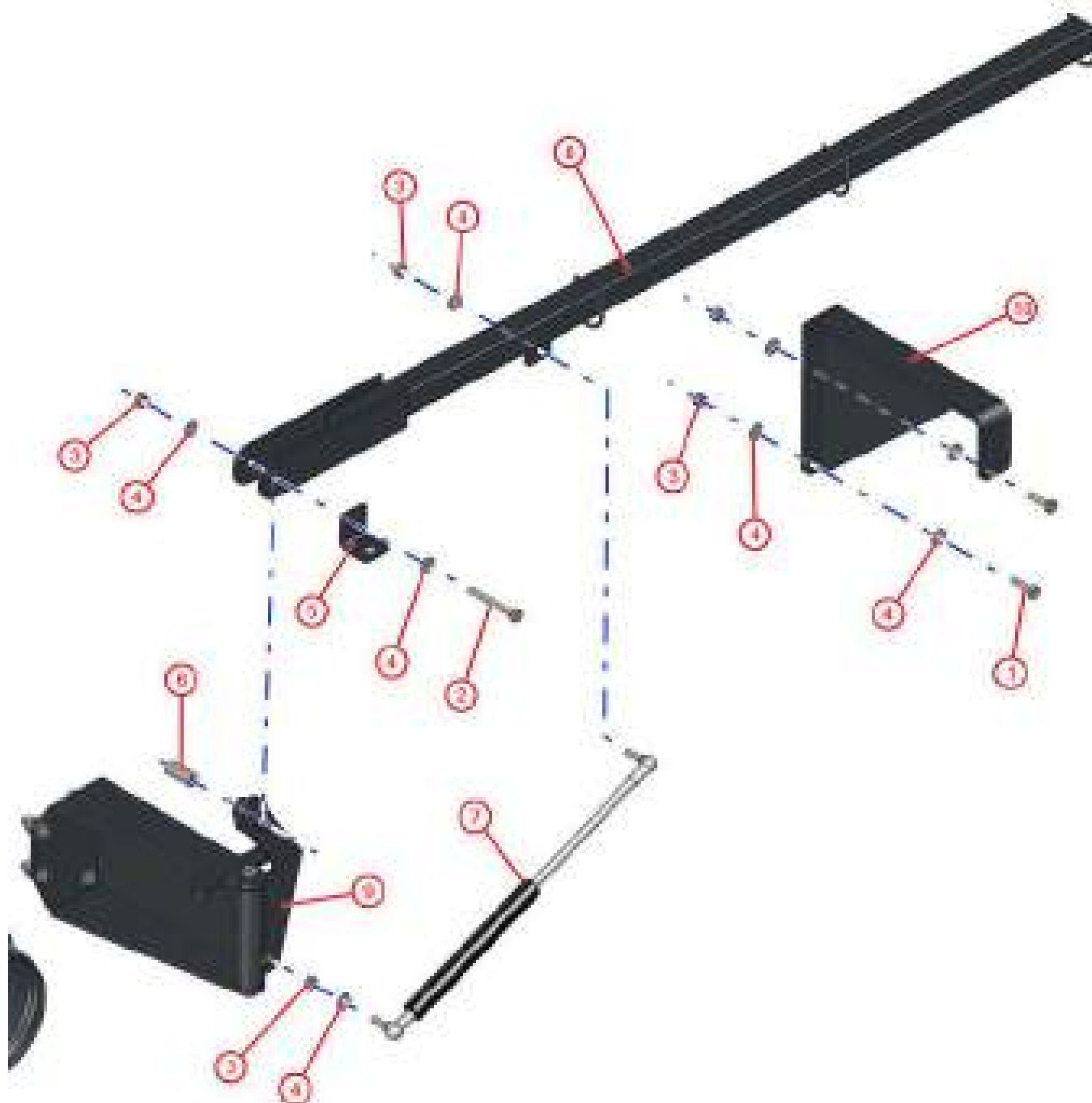
BOM ID	Part No.	Qty	Description
1	SCA010606	4	CARABINER
2	SCA012548	1	ANGLE BRACKET
3	SCA012903	1	JUBILEE CLIP No 10.50 (235 - 267)
4	SCA025218	1	WANDER HOSE SUPPORT BOOM
5	SCA025225	1	WANDER HOSE SLEEVE DIA 177
6	SCA025235	4	WANDER HOSE STRAP
7	SCA042531	1	160MM WANDER HOSE 7M LG REAR BOOM

Wander boom gas strut - wander hose sleeve - left hand - Magnum



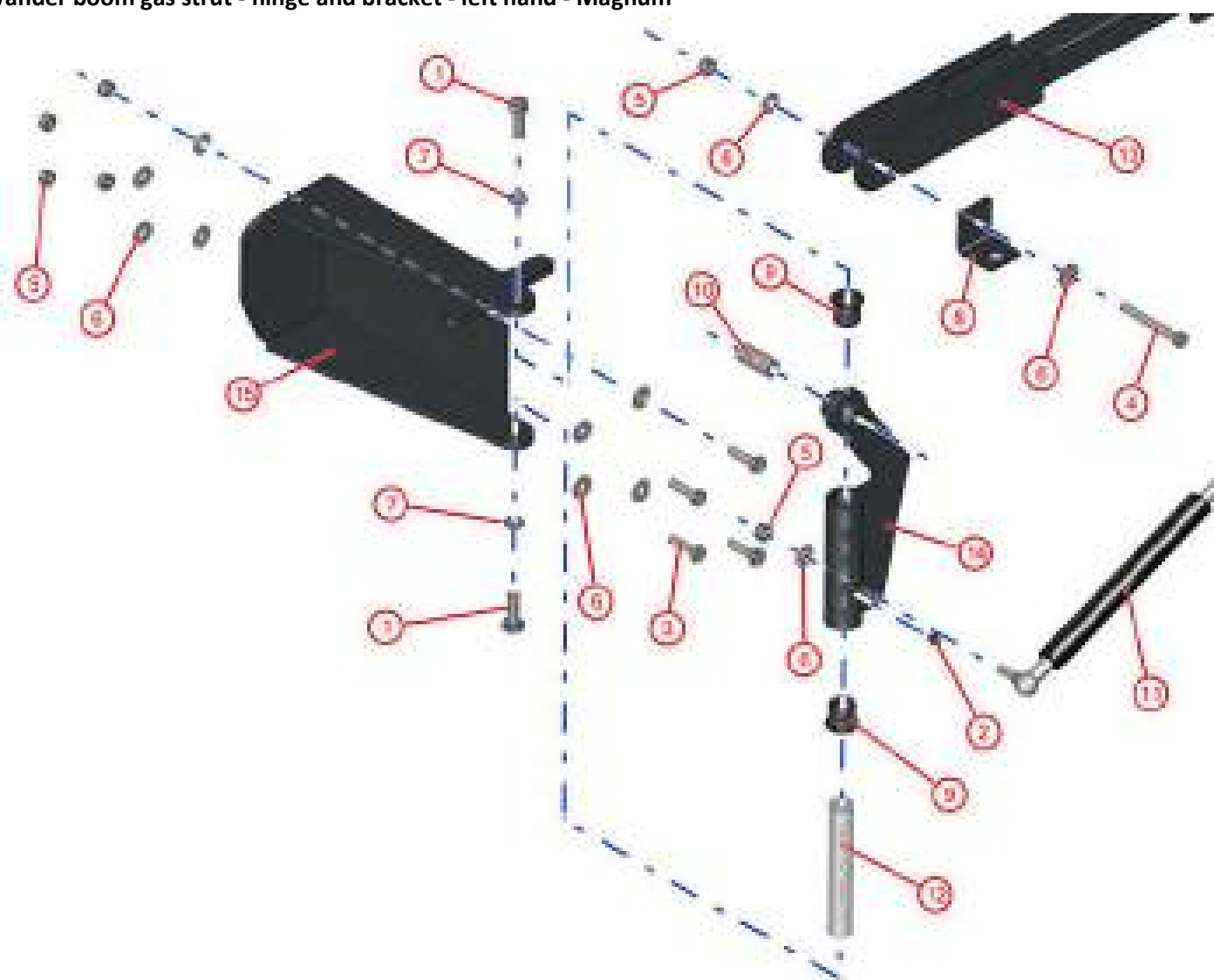
BOM ID	Part No.	Qty	Description
1	SCA000263	4	F.SS M8 T NYLOC NUT
2	SCA000264	4	F.SS PWASHER M8 FORM C
3	SCA010112	1	NOZZLE BODY
4	SCA010516	1	JUBILEE CLIP No M00 (11-16)
5	SCA010922	1	B-1/4" BSP X 3/8" HOSETAIL
6	SCA010960	1	HOSE 3/8 BLACK BRAIDED PVC
7	SCA011169	1	H.SWIVEL ELBOW 1/4" BSP FxP
8	SCA012316	1	SPRAY JET TPU-8004
9	SCA012933	1	JUBILEE CLIP No 10.50 (235 - 267)
10	SCA025225	1	WANDER HOSE SLEEVE DIA 177
11	SCA042531	1	160MM WANDER HOSE 7M LG REAR BOOM

Wander boom gas strut - wander boom, stowage and gas strut - left hand - Magnum



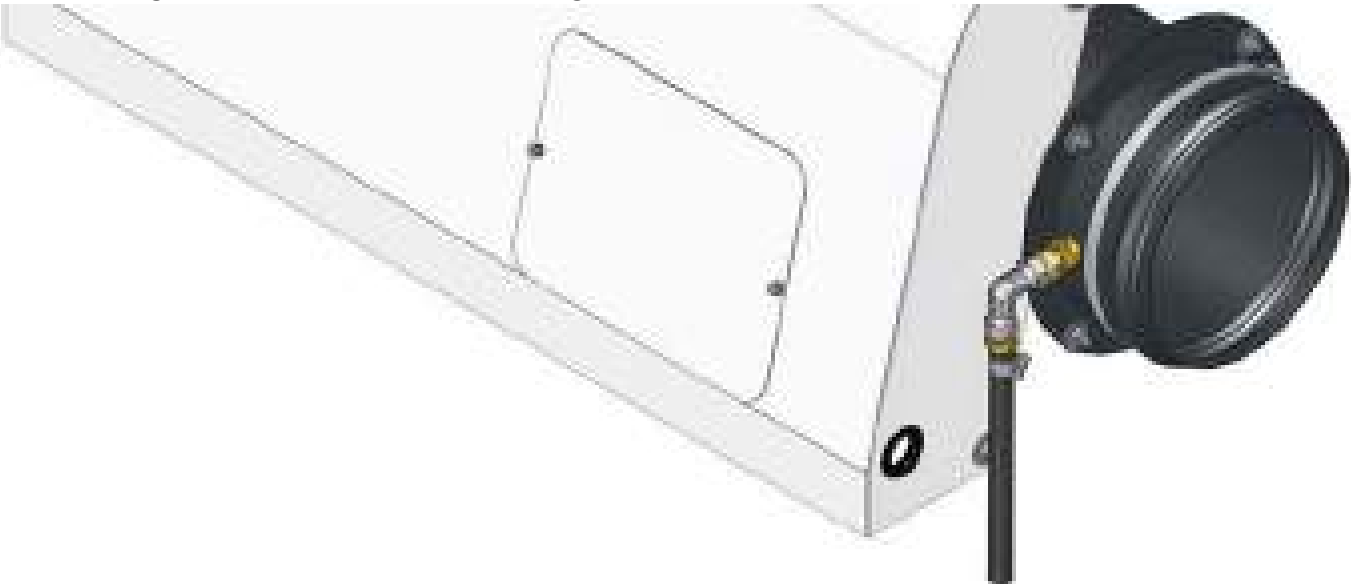
BOW ID	Part No.	Qty	Description
1	SCA011033	2	F.HEX HT SETSCREW M10 X 35
2	SCA011038	1	F.HEX HT BOLT M10 X 80
3	SCA011075	5	F.M10 T NYLOC NUT
4	SCA011094	8	F.PWASHER M10 FORM C
5	SCA012548	1	ANGLE BRACKET
6	SCA014399	1	SPACER 20 X 10.5 X 41 LG
7	SCA021993	1	GAS STRUT CAB TILT
8	SCA025218	1	WANDER HOSE SUPPORT BOOM
9	SCA025219	1	WANDER HOSE HINGE
10	SCA025268	1	STOWAGE BRACKET WANDER HOSE

Wander boom gas strut - hinge and bracket - left hand - Magnum



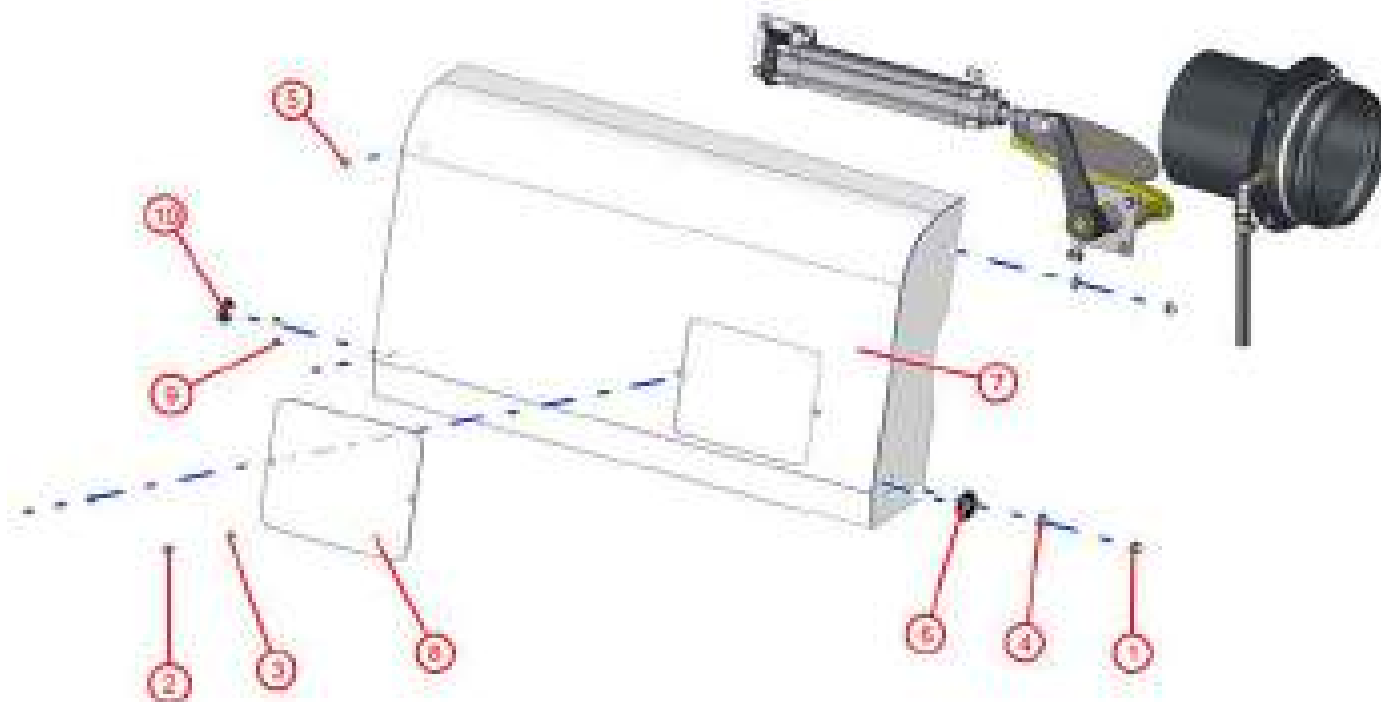
BOM ID	Part No.	Qty	Description
1	SCA000285	2	F.SS HEX SET SCREW M12 X 35
2	SCA010903	1	GREASE NIPPLE 1/8" BSP STR
3	SCA011033	4	F.HEX HT SETSCREW M10 X 35
4	SCA011038	1	F.HEX HT BOLT M10 X 80
5	SCA011075	6	F.M10 T NYLOC NUT
6	SCA011094	11	F.PYWASHER M10 FORM C
7	SCA011097	2	F.SPRING WASHER M12 RECT SECT S/COL
8	SCA012548	1	ANGLE BRACKET
9	SCA013662	2	BUSH BRUSH PIVOTS
10	SCA014399	1	SPACER 20 X 10.5 X 41 LG
11	SCA021903	1	GAS STRUT CAB TILT
12	SCA023490	1	HINGE SHAFT BOOM
13	SCA025218	1	WANDER HOSE SUPPORT BOOM
14	SCA025219	1	WANDER HOSE HINGE
15	SCA025220	1	WANDER HOSE SUPPORT LH

Wander boom gas strut - controls - left hand - Magnum



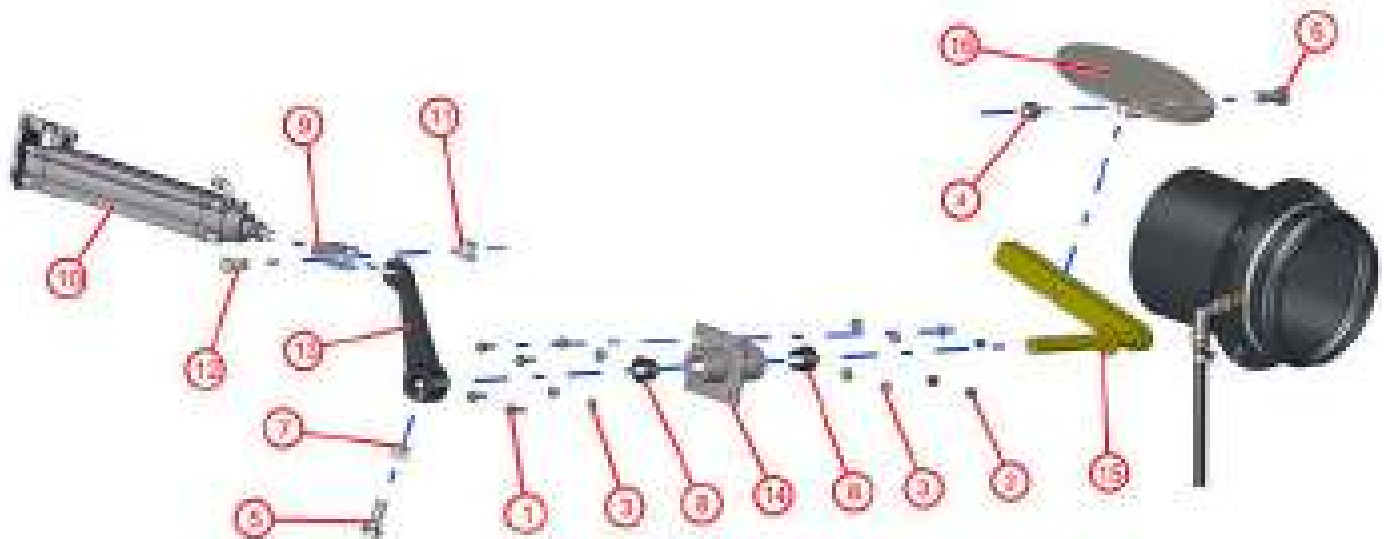
BOM ID	Part No.	Qty	Description
1	SCA000155	2	F.NYLOC NUT M5
2	SCA000402	2	F.M5X20 PAN POZI HEAD SCREW
3	SCA036908	1	WIRING LOOM V3 REAR BOOM SWITCH
4	SCA039548	2	REAR BOOM STICKER

Wander boom gas strut - blanking cover - left hand - Magnum



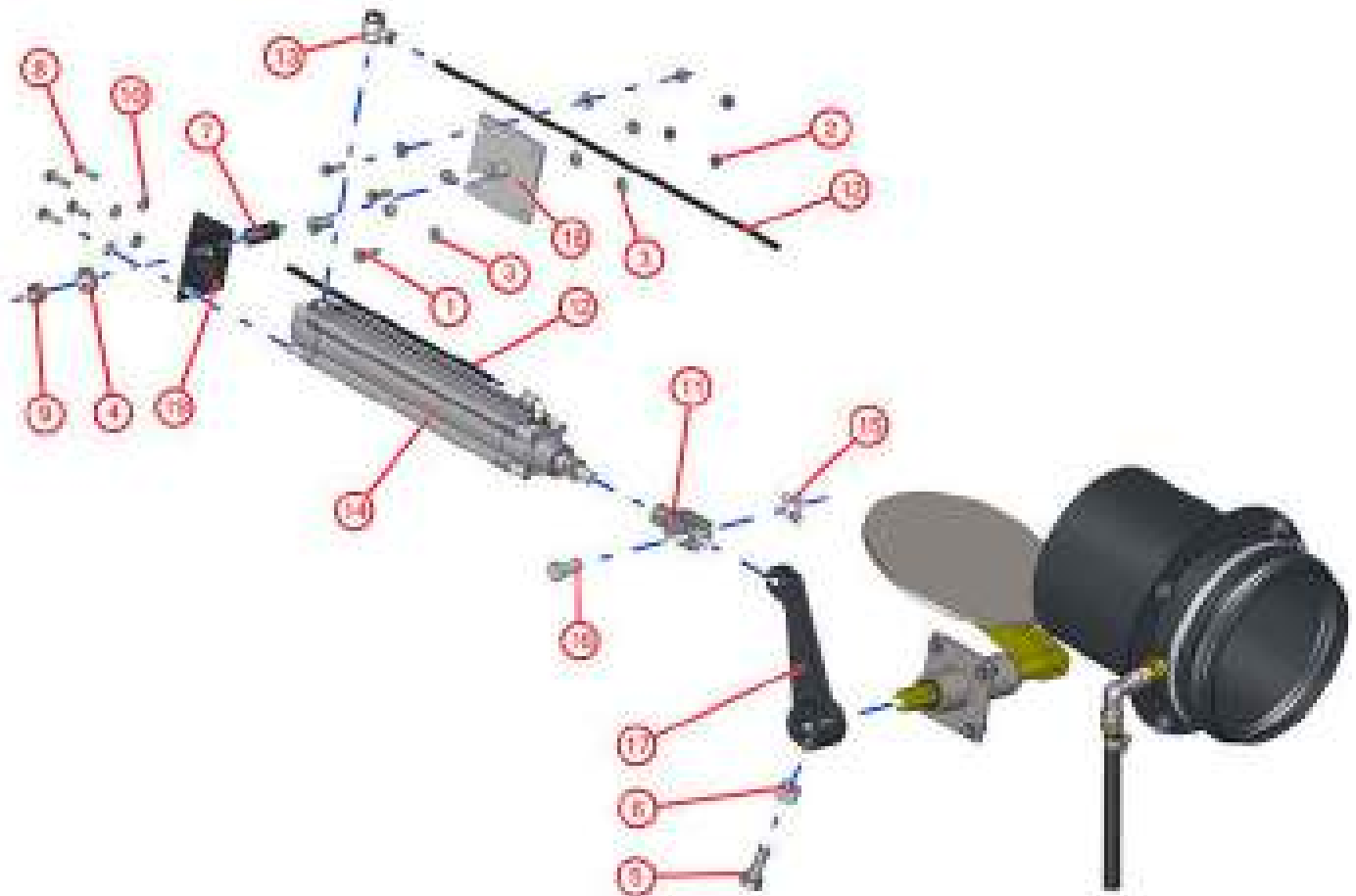
BOM ID	Part No.	Qty	Description
1	SCA000089	2	M8 DOME NUT
2	SCA000087	2	F.HEX BOLT M5 X 12
3	SCA000411	2	F.M5 S/COIL SPRING WASHER
4	SCA011082	2	F.P/WASHER M8 FORM C
5	SCA011131	2	F.SEAL BLIND RIVET 4.8x18
6	SCA012542	1	GROMMET 1"
7	SCA026184	1	COVER LH RAM WANDERHOSE BLANKING MAGNUM
8	SCA030675	1	INSPECTION PLATE COVER RAM WHOSE BLANK MAG
9	SCA044263	2	GROMMET BLANKING 5.6 DIA
10	SCA048222	1	BLANKING GROMMET 25.4MM (1.6MM PLATE)

Wander boom gas strut - blanking flap - left hand - Magnum



BOM ID	Part No.	Qty	Description
1	SCA000252	4	F.SS HEX SETSCREW M6 X 20
2	SCA000253	4	F.SS M6 T NYLOC NUT
3	SCA000254	8	F.SS PWASHER M6 FORM C
4	SCA000275	1	F.SS M12 T NYLOC NUT
5	SCA000276	1	F.SS HEX SETSCREW M12 X 1.25 X 35
6	SCA000278	1	F.SS HEX SETSCREW M12 X 40
7	SCA000279	1	F.SS HEX FULL NUT M12 X 1.25 FINE
8	SCA013488	2	BUSH
9	SCA014489	1	CLEVIS, AIR CYLINDER, M12.
10	SCA021467	1	P.PNEUMATIC CYLINDER 40 X 100
11	SCA023209	1	SAFETY FASTENER 12
12	SCA023270	1	CLEVIS PIN 12
13	SCA025254	1	FLAP LEVER WANDER HOSE
14	SCA025471	1	PNOT TUBE WANDER HOSE FLAP
15	SCA025475	1	FLAP ARM WANDER HOSE
16	SCA025487	1	WANDER HOSE FLAP MAJOR

Wander boom gas strut - blanking pneumatic ram - left hand - Magnum



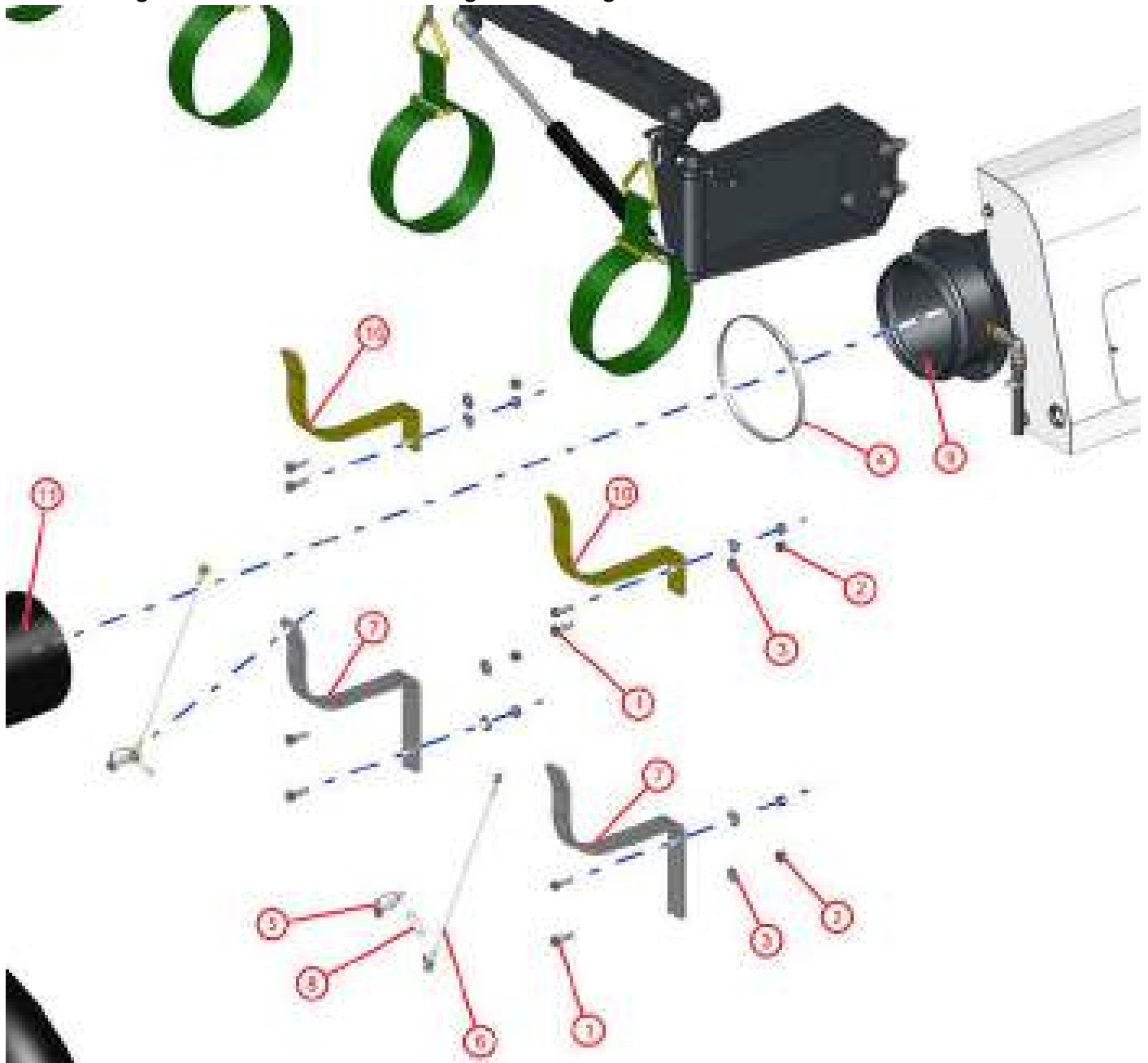
BOM ID	Part No	Qty	Description
1	SCA000252	4	F SS HEX SETSCREW M6 X 20
2	SCA000253	4	F SS M6 T NYLOC NUT
3	SCA000254	8	F SS PWASHER M6 FORM C
4	SCA000270	1	F SS PWASHER M10 FORM C
5	SCA000276	1	F SS HEX SETSCREW M12 X 1.25 X 35
6	SCA000279	1	F SS HEX FULL NUT M12 X 1.25 FINE
7	SCA010950	1	HOSE 3/8 BLACK BRAIDED PVC
8	SCA011067	4	F HEX HT SETSCREW M6 X 20
9	SCA011075	1	F M10 T NYLOC NUT
10	SCA011091	4	F SPRING WASHER M6 RECT SECT SPOOL
11	SCA014469	1	CLEVIS, AIR CYLINDER, M12
12	SCA014572	2	P 6MM OD X 1MM WT BLACK AIR PIPE
13	SCA021158	1	P PNEUMATIC FLOW REGULATOR
14	SCA021467	1	P PNEUMATIC CYLINDER 40 X 200
15	SCA023260	1	SAFETY FASTENER 12
16	SCA023270	1	CLEVIS PIN 12
17	SCA026254	1	FLAP LEVER WANDER HOSE
18	SCA026524	1	PIVOT (BOLT ON) RAM - WHOSE FLAP
19	SCA030532	1	AIR RAM MTG BRACKET, WIDESWEEP

Wander boom gas strut - wander hose and tubes - right hand - Magnum



BOM ID	Part No.	Qty	Description
1	SCA000690	4	F.BUT HD SKT SCREW M6X16 PLATED
2	SCA000263	4	F.SS M6 T NYLOC NUT
3	SCA000254	4	F.SS P/WASHER M6 FORM C
4	SCA012933	2	JUBILEE CLIP No 16.50 (235 - 267)
5	SCA025217	1	SUCTION TUBE 180 (7.5")
6	SCA025225	1	WANDER HOSE SLEEVE DIA 177
7	SCA026808	1	TUBE - BOOM EXTENSION KIT
8	SCA031214	1	REDUCING COLLAR - GULLEY EXT.TUBE
9	SCA040870	1	ASSY WANDER HOSE HANDLE (158 DIA)
10	SCA042531	1	180MM WANDER HOSE 7M LG REAR BOOM

Wander boom gas strut - wander hose hooks - right hand - Magnum



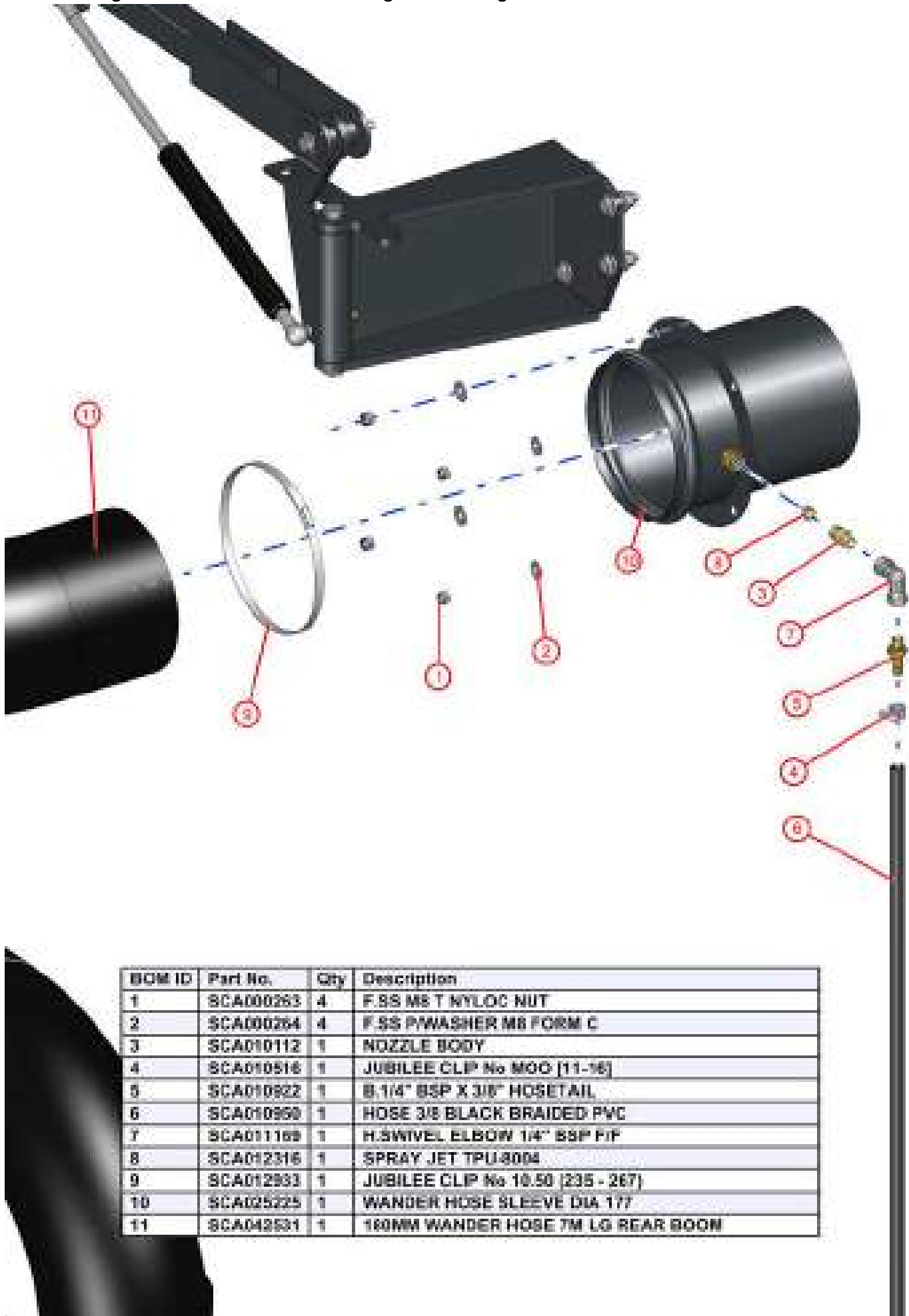
BOM ID	Part No.	Qty	Description
1	SCA000258	8	F.SS HEX SETSCREWS M8 X 30
2	SCA000263	8	F.SS M8 T NYLOC NUT
3	SCA000264	8	F.SS PINWASHER M8 FORM C
4	SCA012933	1	JUBILEE CLIP No 10.50 (235 - 267)
5	SCA013507	2	LINCH PIN & CHAIN MAINSCREEN
6	SCA020711	2	CABLE LEASH
7	SCA022747	2	WANDER HOSE PIPE HOOK
8	SCA023599	2	RING PULL WANDERBOOM LATCH
9	SCA025225	1	WANDER HOSE SLEEVE DIA 177
10	SCA030808	2	WANDER BOOM EXT HOOK
11	SCA042531	1	160MM WANDER HOSE 7M LG REAR BOOM

Wander boom gas strut - wander hose straps - right hand - Magnum



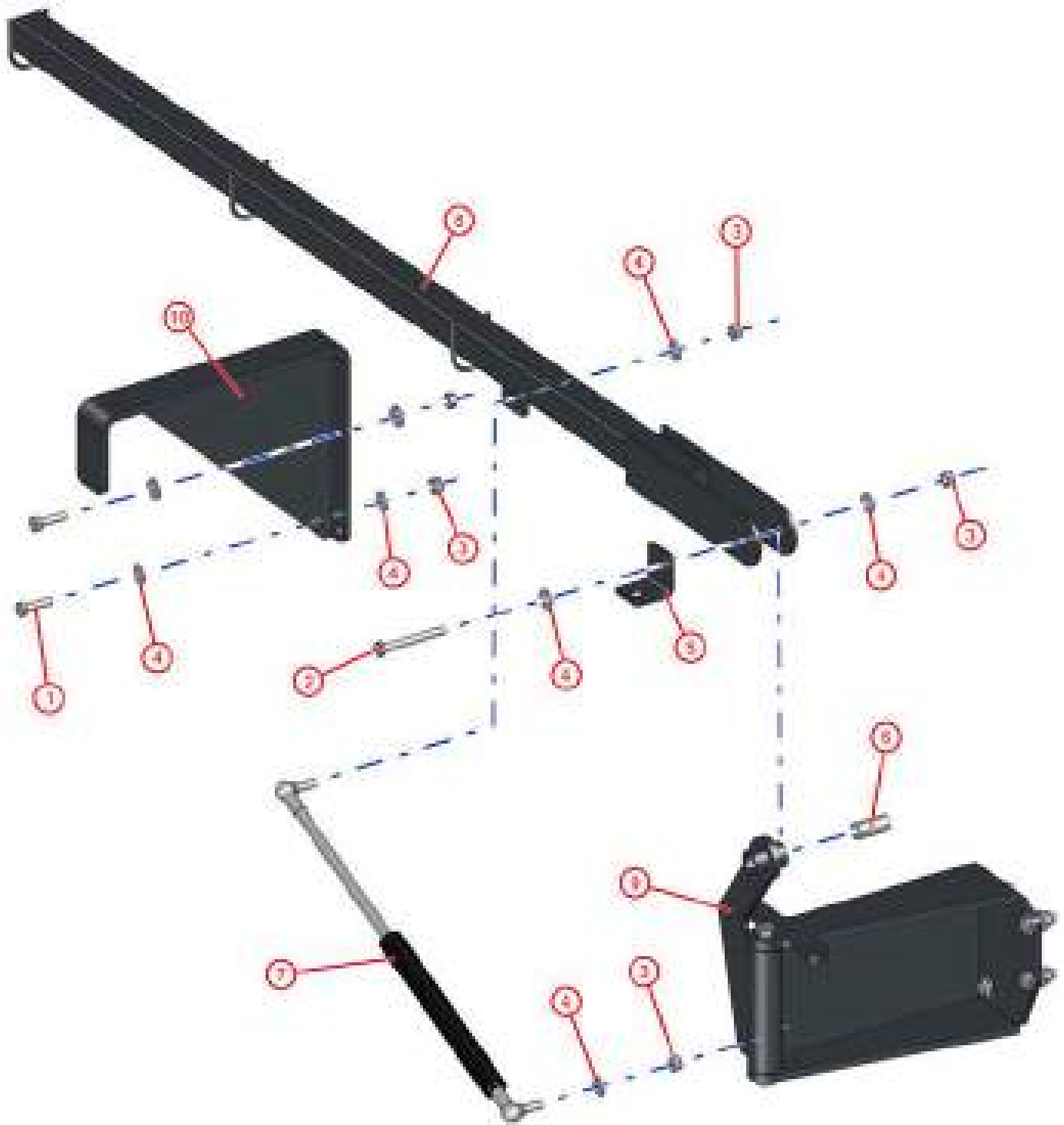
BOM ID	Part No.	Qty	Description
1	SCA010606	4	CARABINER
2	SCA012548	1	ANGLE BRACKET
3	SCA012903	1	JUBILEE CLIP No 10.50 (235 - 267)
4	SCA025218	1	WANDER HOSE SUPPORT BOOM
5	SCA025225	1	WANDER HOSE SLEEVE DIA 177
6	SCA025235	4	WANDER HOSE STRAP
7	SCA042531	1	160MM WANDER HOSE 7M LG REAR BOOM

Wander boom gas strut - wander hose sleeve - right hand - Magnum



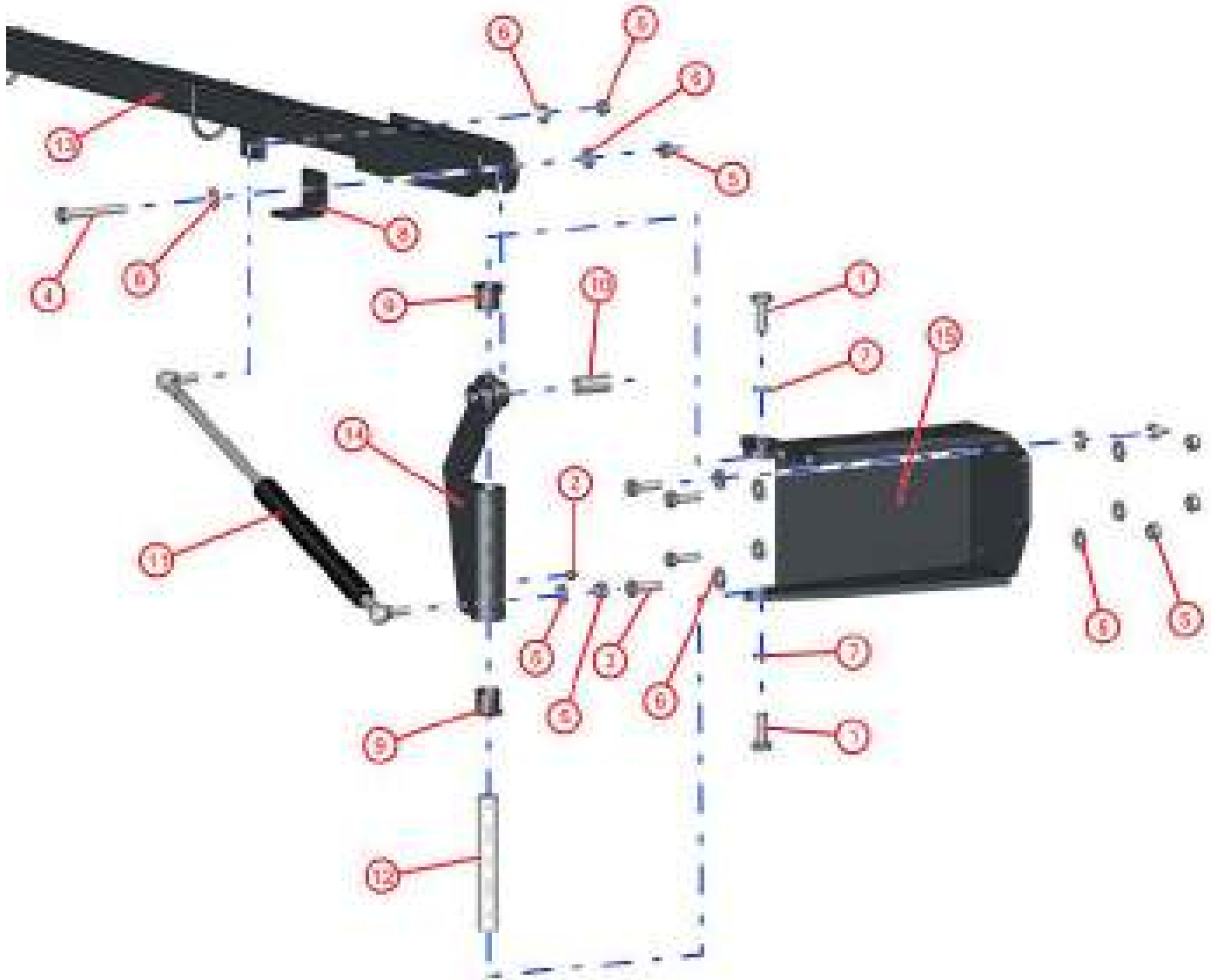
BOM ID	Part No.	Qty	Description
1	SCA000263	4	F.SS M8 T NYLOC NUT
2	SCA000264	4	F.SS PWASHER M8 FORM C
3	SCA010112	1	NOZZLE BODY
4	SCA010516	1	JUBILEE CLIP No M00 [11-16]
5	SCA010922	1	B-1/4" BSP X 3/8" HOSETAIL
6	SCA010960	1	HOSE 3/8 BLACK BRAIDED PVC
7	SCA011169	1	H.SWIVEL ELBOW 1/4" BSP FxP
8	SCA012316	1	SPRAY JET TPU-8004
9	SCA012933	1	JUBILEE CLIP No 10.50 (235 - 267)
10	SCA025225	1	WANDER HOSE SLEEVE DIA 177
11	SCA042531	1	160MM WANDER HOSE 7M LG REAR BOOM

Wander boom gas strut - wander boom, stowage and gas strut - right hand - Magnum



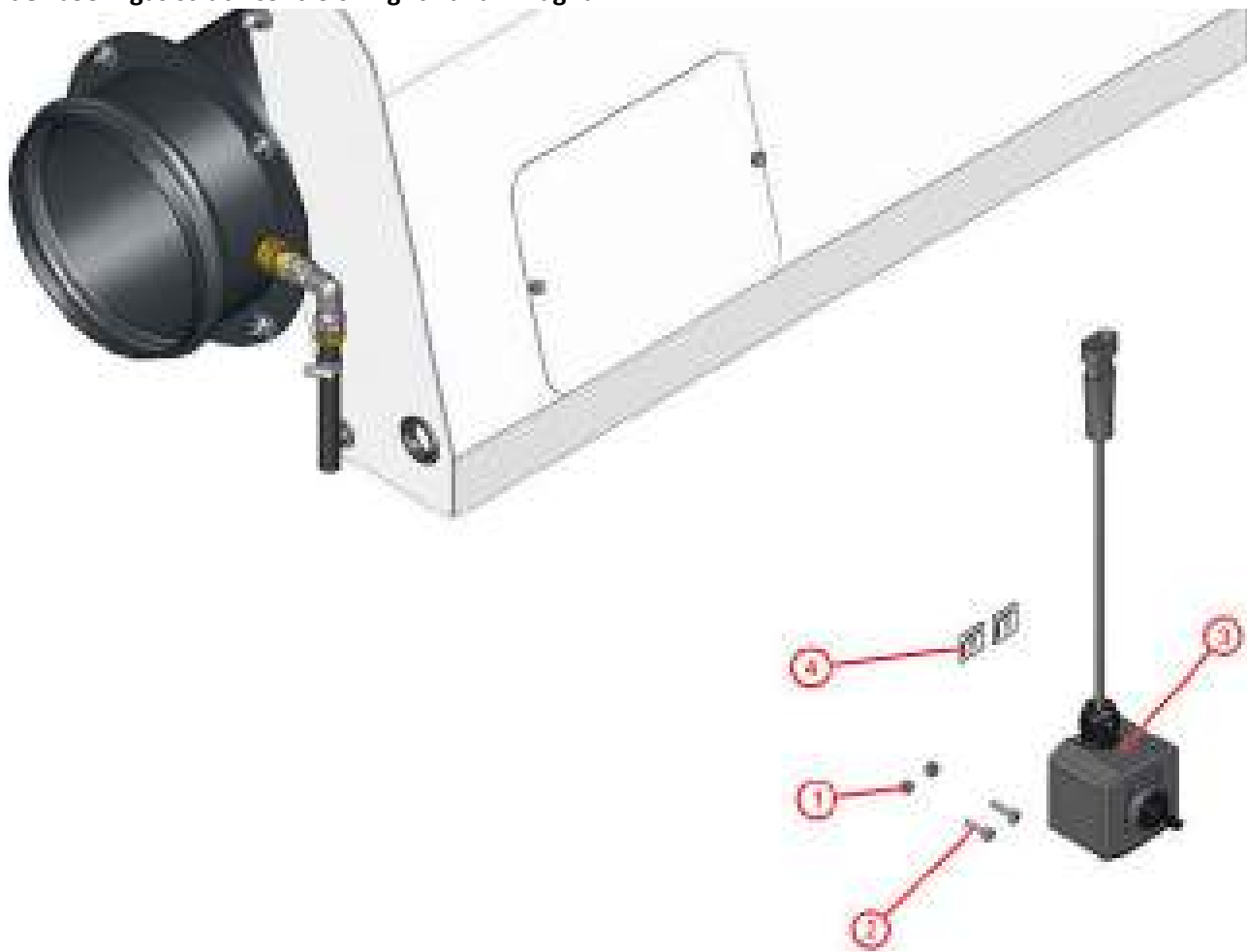
BOM ID	Part No.	Qty	Description
1	SCA011033	2	F.HEX HT SETSCREW M10 X 35
2	SCA011038	1	F.HEX HT BOLT M10 X 80
3	SCA011075	5	F.M10 T NYLOC NUT
4	SCA011094	8	F.PWASHER M10 FORM C
5	SCA012548	1	ANGLE BRACKET
6	SCA014399	1	SPACER 20 X 10.5 X 41 LG
7	SCA021903	1	GAS STRUT CAB TILT
8	SCA025218	1	WANDER HOSE SUPPORT BOOM
9	SCA025219	1	WANDER HOSE HINGE
10	SCA025268	1	STOWAGE BRACKET WANDER HOSE

Wander boom gas strut - hinge and bracket - right hand - Magnum



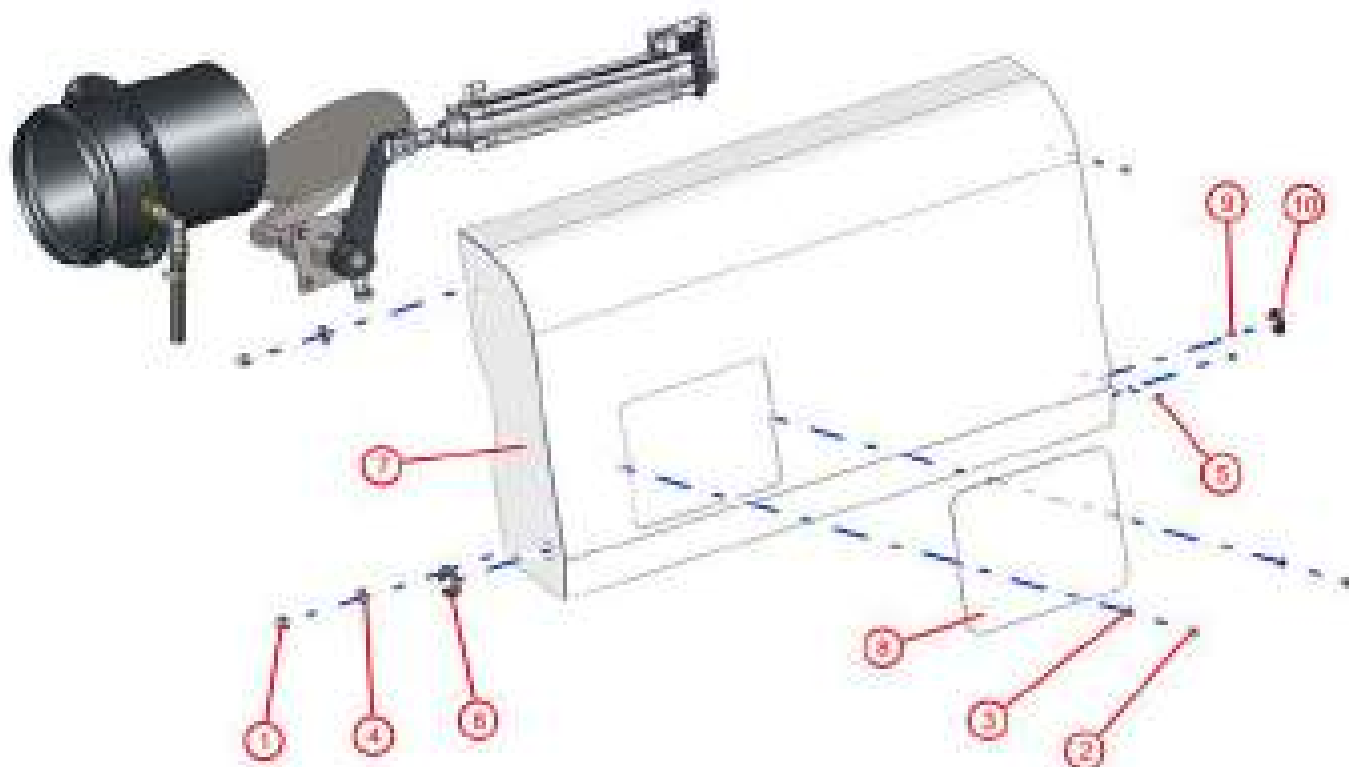
BQM ID	Part No.	Qty	Description
1	SCA000285	2	F.SS HEX SET SCREW M12 X 35
2	SCA010803	1	GREASE NIPPLE 1/8" BSP STR
3	SCA011833	4	F.HEX HT SETSCREW M10 X 35
4	SCA011838	1	F.HEX HT BOLT M10 X 80
5	SCA011875	7	F.M10 T NYLOC NUT
6	SCA011884	12	F.PYWASHER M10 FORM C
7	SCA011897	2	F.SPRING WASHER M12 RECT SECT S/COL
8	SCA012548	1	ANGLE BRACKET
9	SCA013662	2	BUSH BRUSH PIVOTS
10	SCA014389	1	SPACER 20 X 10.5 X 41 LG
11	SCA021903	1	GAS STRUT CAB TILT
12	SCA023400	1	HINGE SHAFT BOOM
13	SCA025218	1	WANDER HOSE SUPPORT BOOM
14	SCA025219	1	WANDER HOSE HINGE
15	SCA025574	1	WANDER HOSE SUPPORT RH MAJOR/MAXIM

Wander boom gas strut - controls - right hand - Magnum



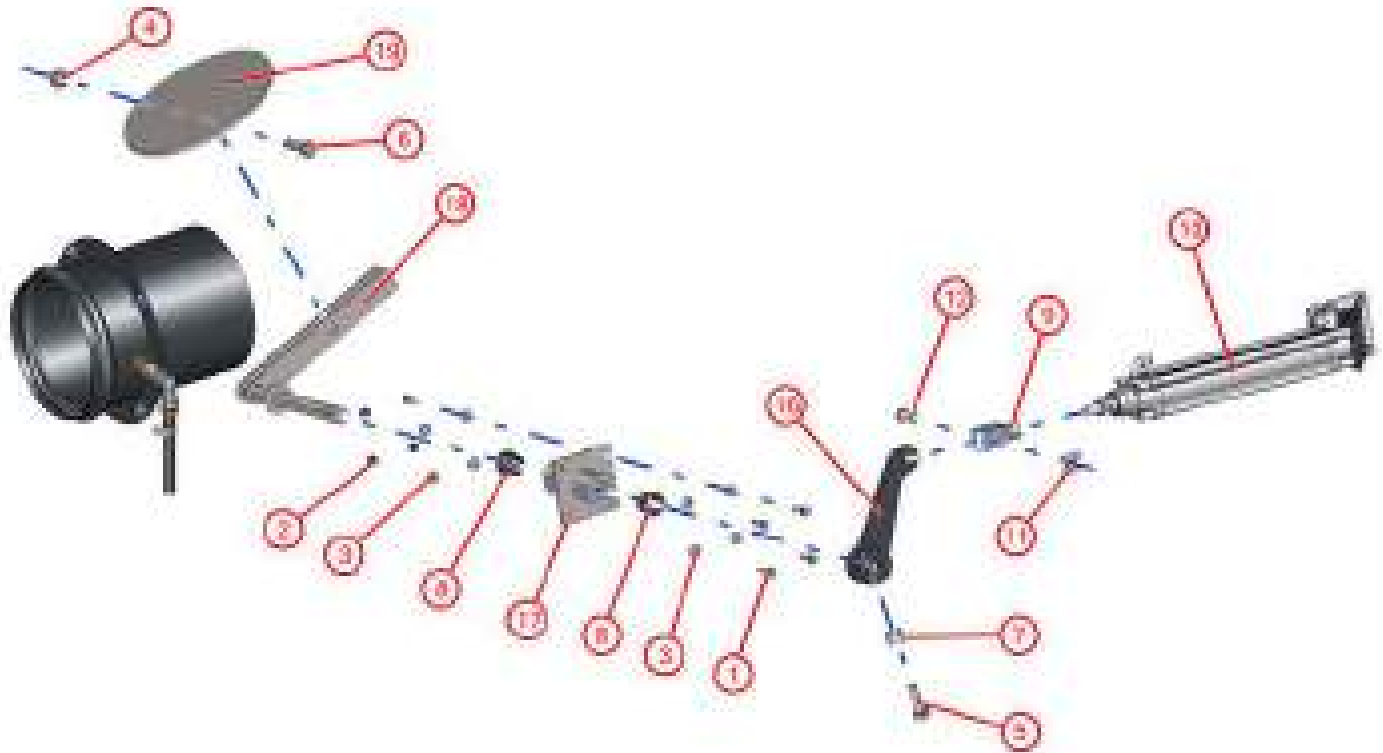
BOM ID	Part No.	Qty	Description
1	SCA000155	2	F.NYLOC NUT M5
2	SCA000402	2	F.M5X20 PAN POZI HEAD SCREW
3	SCA036908	1	WIRING LOOM V3 REAR BOOM SWITCH
4	SCA039548	2	REAR BOOM STICKER

Wander boom gas strut - blanking cover - right hand - Magnum



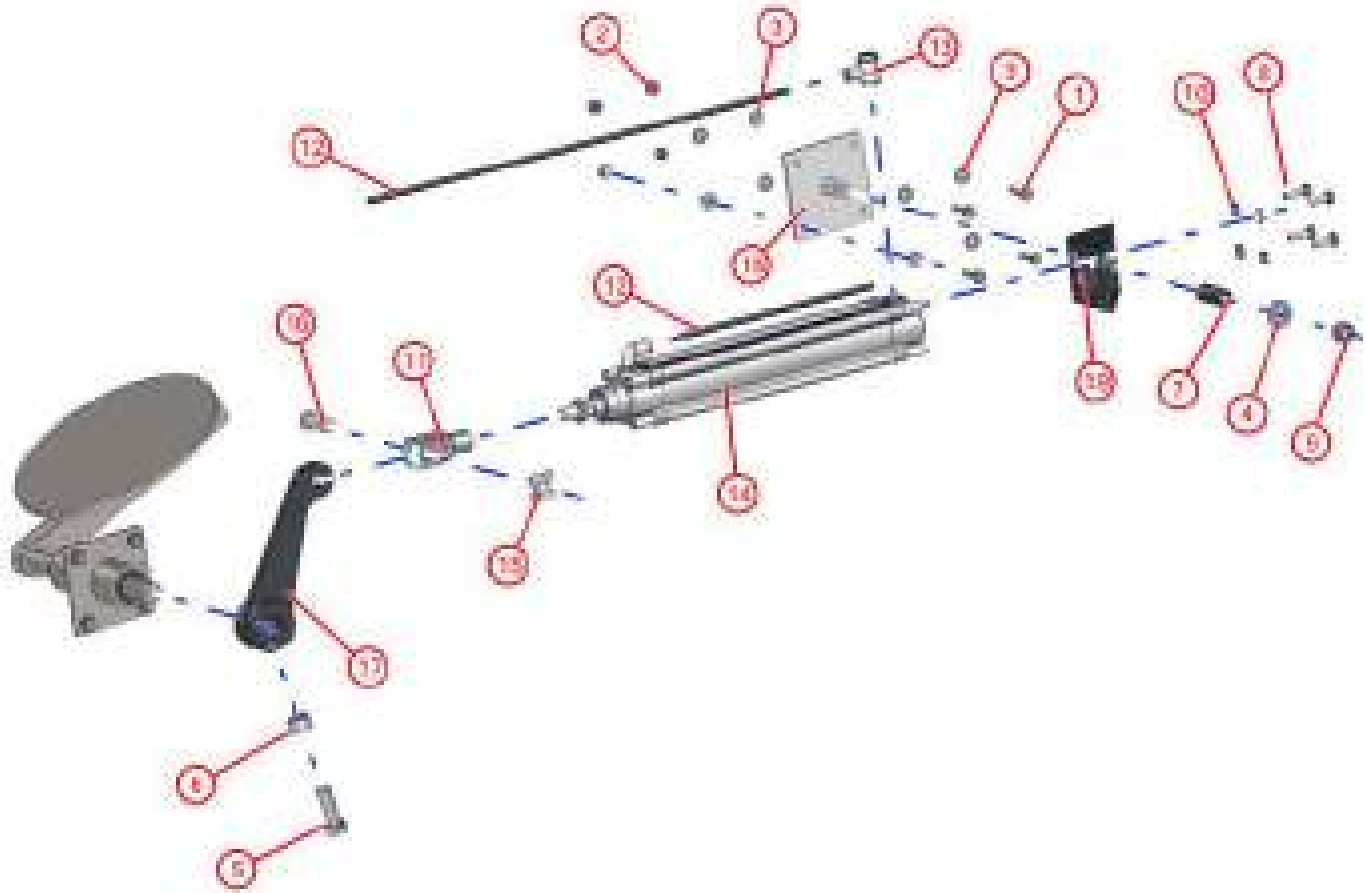
BOM ID	Part No.	Qty	Description
1	SCA000089	2	M8 DOME NUT
2	SCA000087	2	F.HEX BOLT M6 X 12
3	SCA000411	2	F.M5 S/COIL SPRING WASHER
4	SCA011082	2	F.P/WASHER M8 FORM C
5	SCA011131	2	F.SEAL BLIND RIVET 4.8x18
6	SCA012542	1	GROMMET 1"
7	SCA020185	1	COVER RH RAM WANDERHOSE BLANKING MAGNUM
8	SCA030675	1	INSPECTION PLATE COVER RAM WHOSE BLANK MAG
9	SCA044263	2	GROMMET BLANKING 5.6 DIA
10	SCA048222	1	BLANKING GROMMET 25.4MM (1.6MM PLATE)

Wander boom gas strut - blanking flap - right hand - Magnum



BOM ID	Part No.	Qty	Description
1	SCA000252	4	F.SS HEX SETSCREW M6 X 20
2	SCA000253	4	F.SS M6 T NYLOC NUT
3	SCA000254	8	F.SS PWASHER M6 FORM C
4	SCA000275	1	F.SS M12 T NYLOC NUT
5	SCA000276	1	F.SS HEX SETSCREW M12 X 1.25 X 35
6	SCA000278	1	F.SS HEX SETSCREW M12 X 40
7	SCA000279	1	F.SS HEX FULL NUT M12 X 1.25 FINE
8	SCA013488	2	BUSH
9	SCA014489	1	CLEVIS, AIR CYLINDER, M12.
10	SCA021467	1	P.PNEUMATIC CYLINDER 40 X 100
11	SCA023209	1	SAFETY FASTENER 12
12	SCA023270	1	CLEVIS PIN 12
16	SCA025254	1	FLAP LEVER WANDER HOSE
17	SCA025471	1	PNOT TUBE WANDER HOSE FLAP
18	SCA025475	1	FLAP ARM WANDER HOSE
19	SCA025487	1	WANDER HOSE FLAP MAJOR

Wander boom gas strut - blanking pneumatic ram - right hand - Magnum



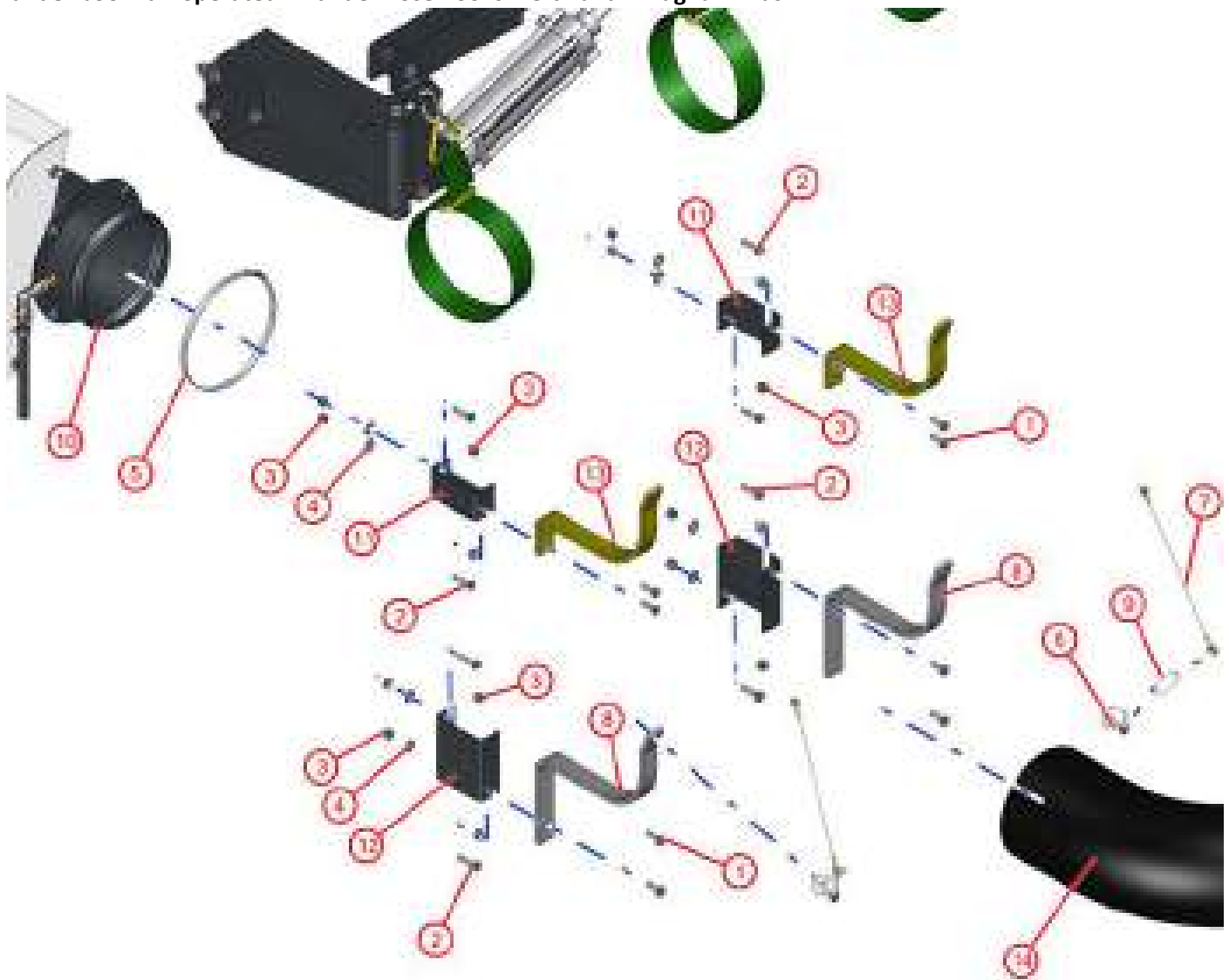
BOM ID	Part No.	Qty	Description
1	SCA000252	4	F.SS HEX SETSCREW M6 X 20
2	SCA000253	4	F.SS M6 T NYLOC NUT
3	SCA000254	8	F.SS PWASHER M6 FORM C
4	SCA000270	1	F.SS PWASHER M10 FORM C
5	SCA000276	1	F.SS HEX SETSCREW M12 X 1.25 X 35
6	SCA000279	1	F.SS HEX FULL NUT M12 X 1.25 FINE
7	SCA010950	1	HOSE 3/8 BLACK BRAIDED PVC
8	SCA011067	4	F.HEX HT SETSCREW M5 X 20
9	SCA011075	1	F.M10 T NYLOC NUT
10	SCA011091	4	F.SPRING WASHER M6 RECT SECT S&COIL
11	SCA014469	1	CLEVIS, AIR CYLINDER, M12
12	SCA014572	2	P.6MM OD X 1MM WT BLACK AIR PIPE
13	SCA021158	1	P.PNEUMATIC FLOW REGULATOR
14	SCA021467	1	P.PNEUMATIC CYLINDER 40 X 300
15	SCA023269	1	SAFETY FASTENER 12
16	SCA023279	1	CLEVIS PIN 12
17	SCA025264	1	FLAP LEVER WANDER HOSE
18	SCA025524	1	PNUT [BOLT ON] RAM - W/HOSE FLAP
19	SCA030532	1	AIR RAM MTG BRACKET, WIDESWEEP

Wander boom air operated - wander hose and tubes - left hand - Magnum Plus



BOM ID	Part No.	Description	Qty
1	SCA000690	F.BUT HD SKT SCREW M6X16 PLATED	4
2	SCA000253	F.SS M6 T NYLOC NUT	4
3	SCA000254	F.SS PWASHER M6 FORM C	4
4	SCA012933	JUBILEE CLIP No 10.50 (215 - 267)	2
5	SCA025217	SUCTION TUBE 110 (7.5")	1
6	SCA025225	WANDER HOSE SLEEVE DIA 177	1
7	SCA026808	TUBE - BOOM EXTENSION KIT	1
8	SCA031214	REDUCING COLLAR - GULLEY EXT.TUBE	1
9	SCA040870	ASSY WANDER HOSE HANDLE (150 DIA)	1
10	SCA042531	100MM WANDER HOSE 7M LG REAR BOOM	1

Wander boom air operated - wander hose hooks - left hand - Magnum Plus



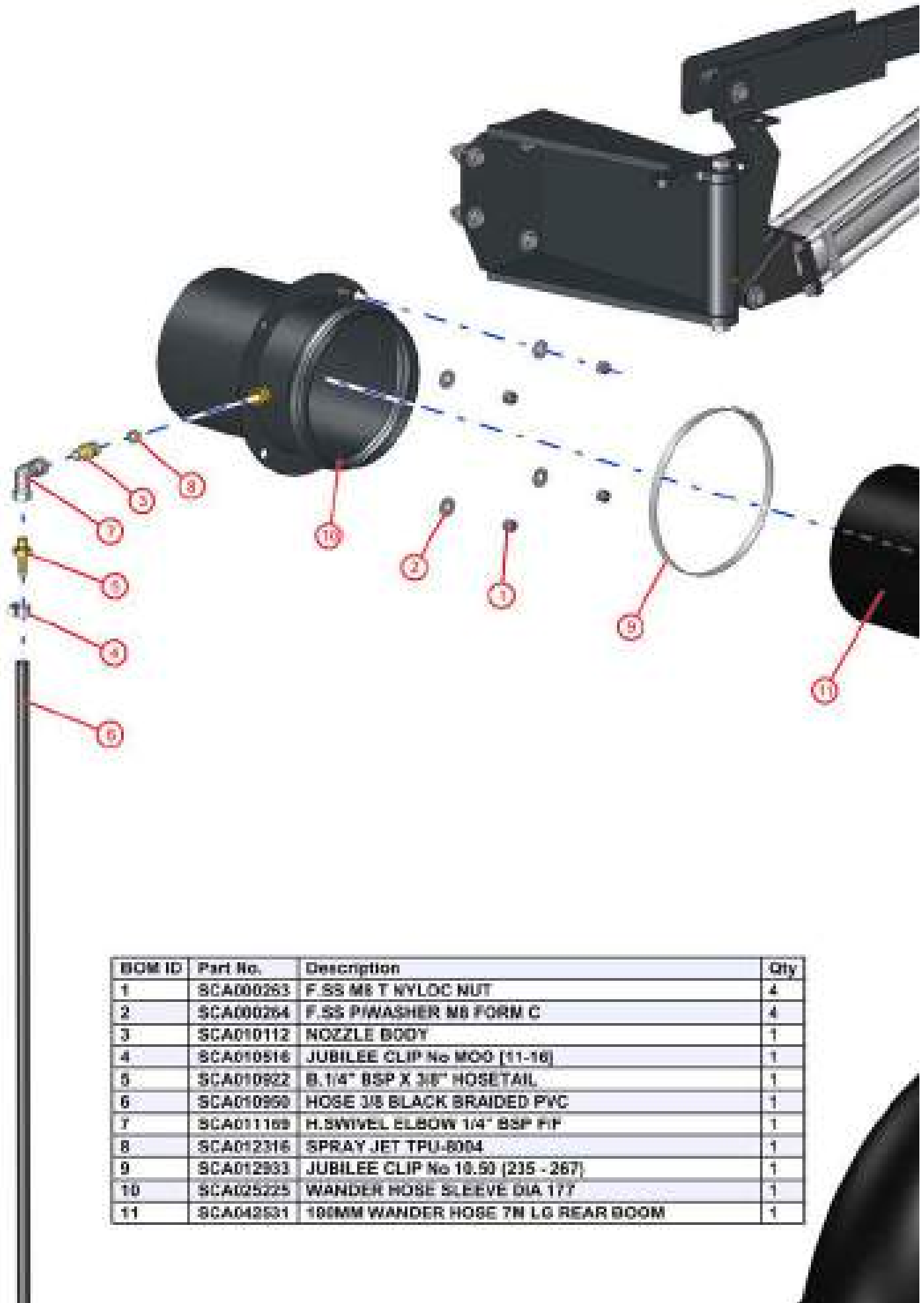
BOM ID	Part No.	Description	Qty
1	SCA000257	F.SS HEX SETSCREW M8 X 25	8
2	SCA000258	F.SS HEX SETSCREWS M8 X 30	8
3	SCA000263	F.SS M8 T NYLOC NUT	16
4	SCA000264	F.SS PWASHER M8 FORM C	8
5	SCA012933	JUBILEE CLIP No 10.50 (235 - 267)	1
6	SCA013507	LINCH PIN & CHAIN MAINSCREEN	2
7	SCA020711	CABLE LEASH	2
8	SCA022747	WANDER PIPE HOOK	2
9	SCA023599	RING PULL WANDERBOOM LATCH	2
10	SCA025225	WANDER HOSE SLEEVE DIA 177	1
11	SCA028188	BOOM SPACER SMALL W/HOSE HOOKS 8000	2
12	SCA028189	BOOM SPACER LARGE W/HOSE HOOKS 8000	2
13	SCA030808	WANDER BOOM EXT HOOK	2
14	SCA042531	180MM WANDER HOSE 7N LG REAR BOOM	1

Wander boom air operated - wander hose straps - left hand - Magnum Plus



BOM ID	Part No.	Description	Qty
1	SCA010606	CARABINER	4
2	SCA012548	ANGLE BRACKET	1
3	SCA012903	JUBILEE CLIP No 18,50 (215 - 267)	1
4	SCA025225	WANDER HOSE SLEEVE DIA 177	1
5	SCA025235	WANDER HOSE STRAP	4
6	SCA027926	HOSE SUPPORT BOOM AIR OPERATED	1
7	SCA042531	180MM WANDER HOSE 7M LG REAR BOOM	1

Wander boom air operated - wander hose sleeve - left hand - Magnum Plus



BOM ID	Part No.	Description	Qty
1	SCA000263	F.SS M6 T NYLOC NUT	4
2	SCA000264	F.SS PIWASHER M6 FORM C	4
3	SCA010112	NOZZLE BODY	1
4	SCA010516	JUBILEE CLIP No MOO (11-16)	1
5	SCA010922	B.1/4" BSP X 3/8" HOSETAIL	1
6	SCA010960	HOSE 3/8 BLACK BRAIDED PVC	1
7	SCA011169	H.SWIVEL ELBOW 1/4" BSP F/F	1
8	SCA012316	SPRAY JET TPU-8004	1
9	SCA012933	JUBILEE CLIP No 10.50 (235 - 267)	1
10	SCA025225	WANDER HOSE SLEEVE DIA 177	1
11	SCA042531	100MM WANDER HOSE 7M LG REAR BOOM	1

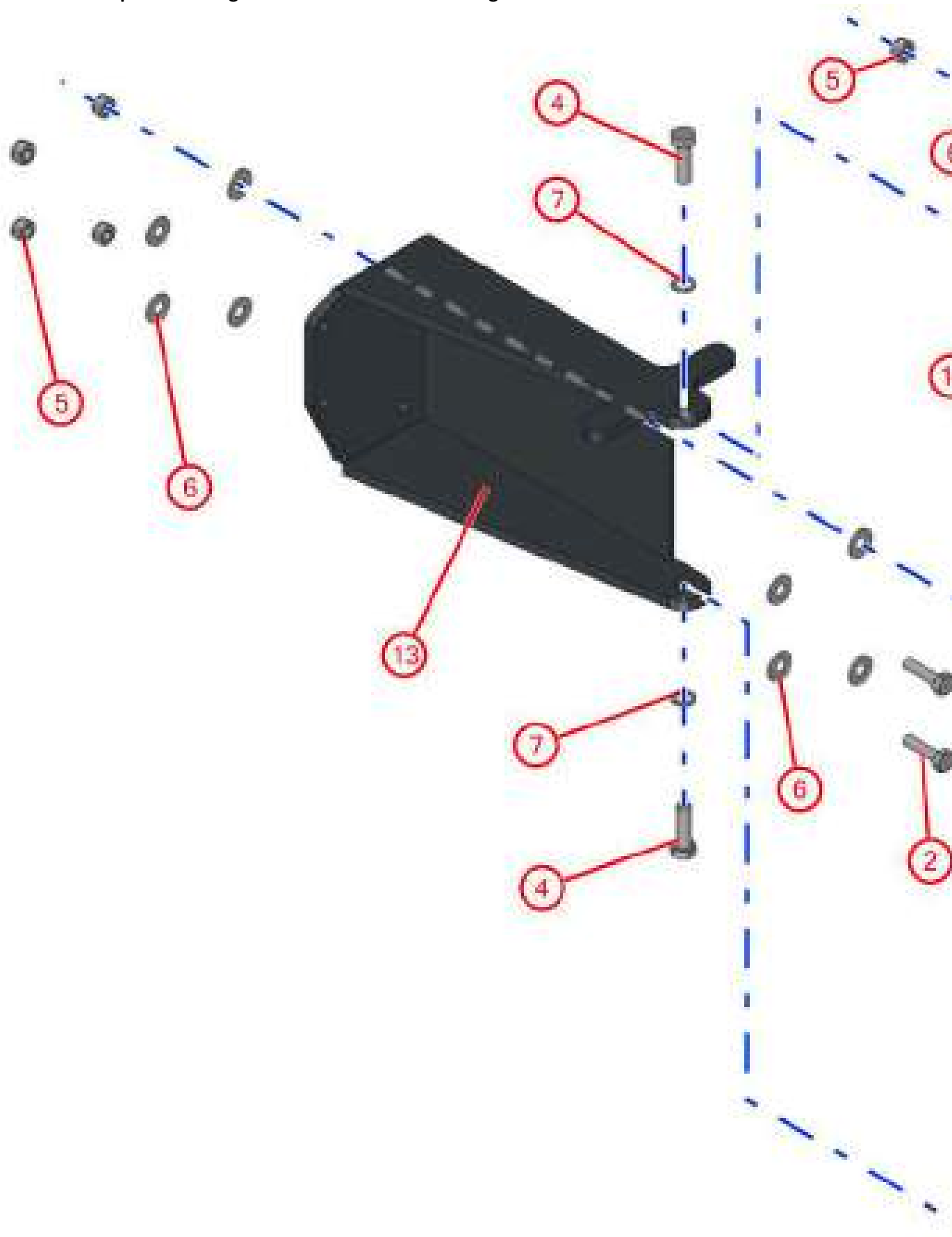
Wander boom air operated - wander boom and stowage - left hand - Magnum Plus



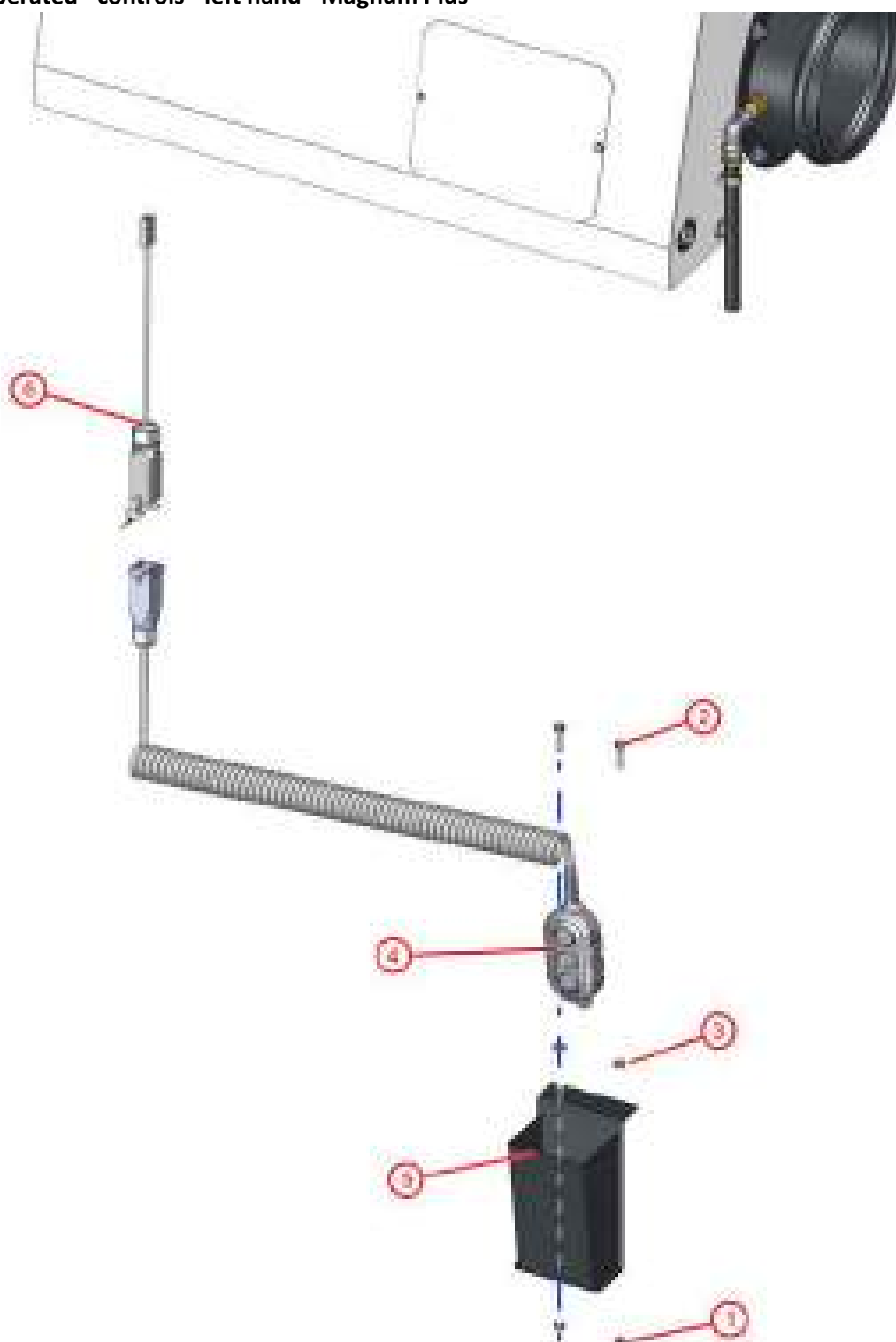
BOM ID	Part No.	Description	Qty
1	SCA011633	F.HEX HT SETSCREW M10 X 35	2
2	SCA011638	F.HEX HT BOLT M10 X 80	1
3	SCA011675	F.M10 T NYLOC NUT	3
4	SCA011694	F.PWASHER M10 FORM C	6
5	SCA012548	ANGLE BRACKET	1
6	SCA014399	SPACER 20 X 10.5 X 41 LG	1
7	SCA020299	CLEVIS PNEUMATIC M16 X 1.5	1
8	SCA022673	CLEVIS PIN (TURNED)	1
9	SCA022674	CLIP RETAINING M16	1
10	SCA025219	WANDER HOSE HNGE	1
11	SCA027936	HOSE SUPPORT BOOM AIR OPERATED	1
12	SCA027939	STOWAGE BRKT AIR OPERATED BOOM	1
13	SCA028306	P.PNEUMATIC CYL 63 X 110	1

Suction

Wander boom air operated - hinge and bracket - left hand - Magnum Plus

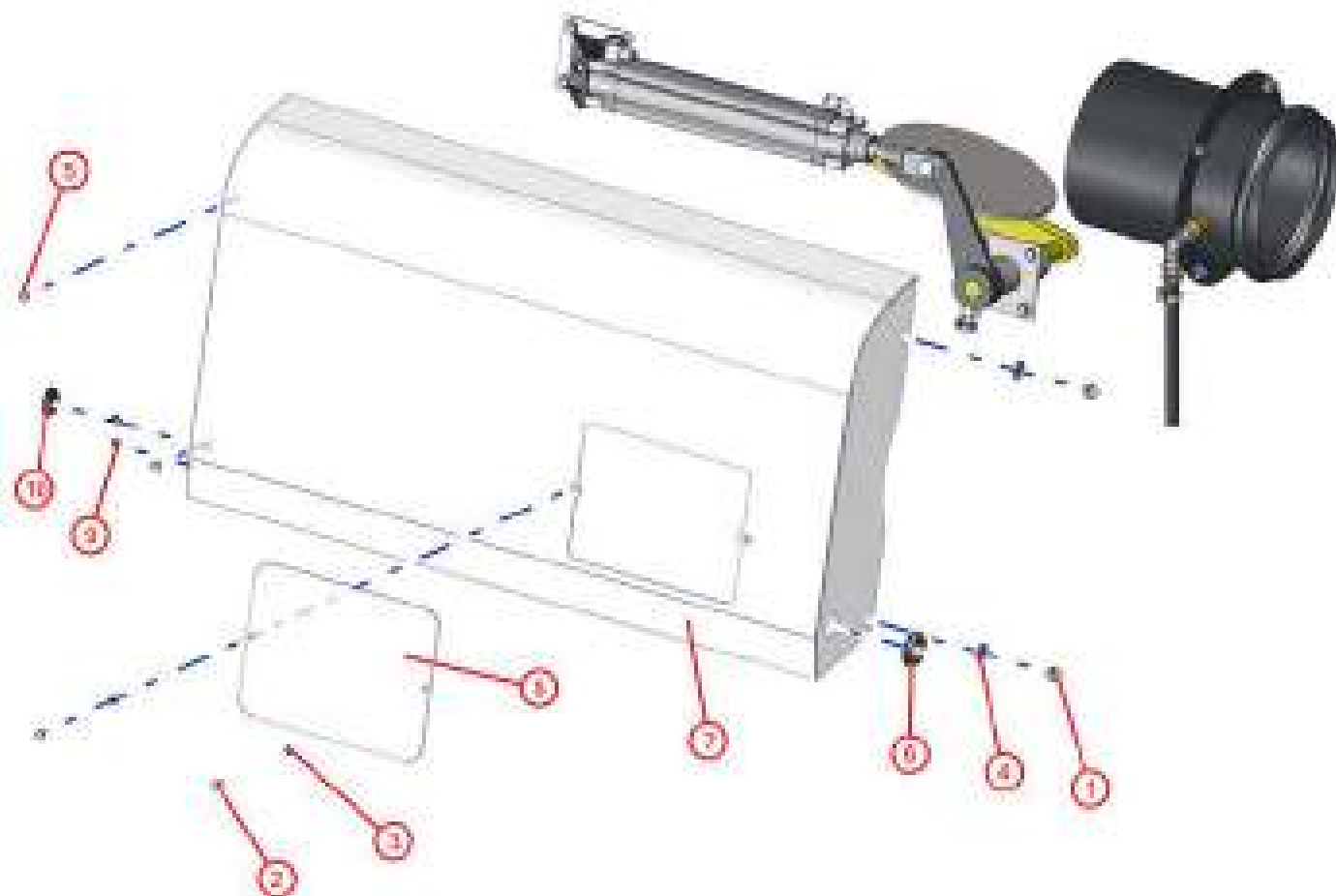


Wander boom air operated - controls - left hand - Magnum Plus



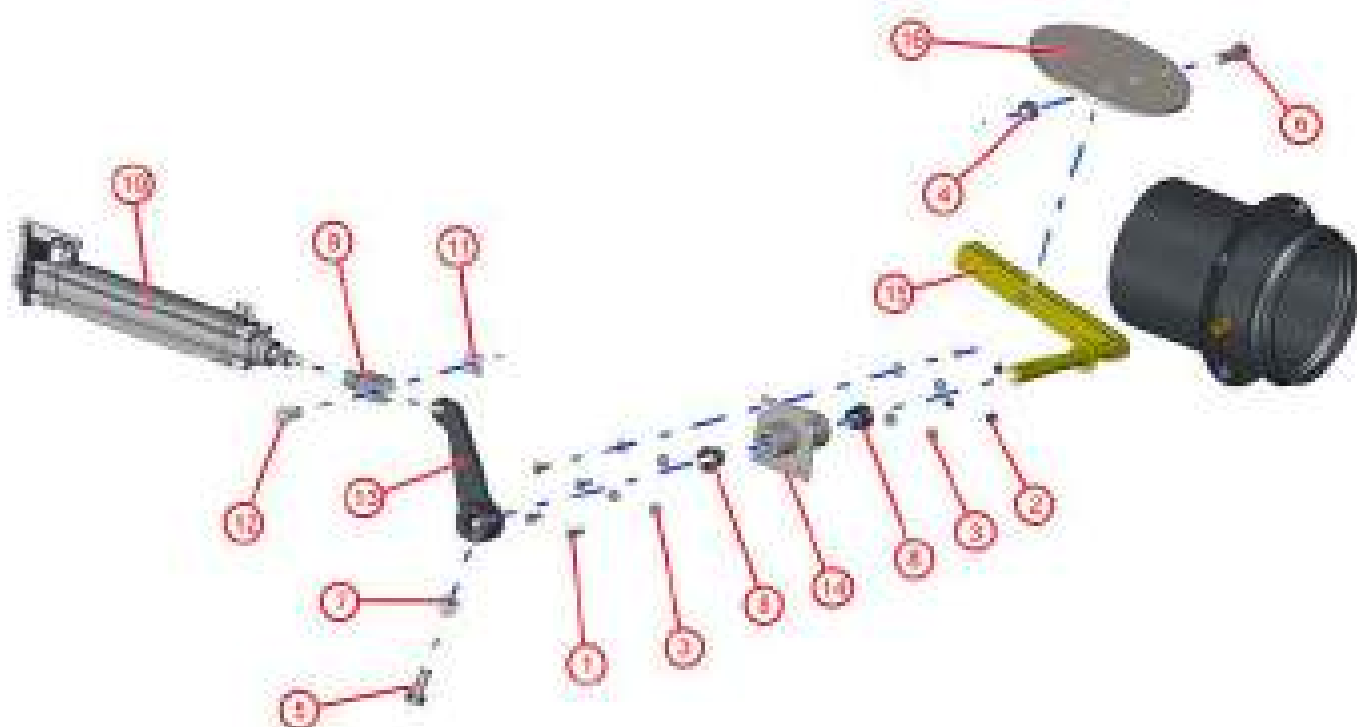
BOM ID	Part No.	Description	Qty
1	SCA011071	F.M6 T NYLOC NUT	2
2	SCA011087	F.HEX HT SETSCREW M6 X 25	2
3	SCA011090	F.P/WASHER M6 FORM C	2
4	SCA028287	3 BUTTON PENDANT WITH SPIRAL CABLE	1
5	SCA028355	PENDANT HOLSTER REAR AIR OPERATED BOOM	1
6	SCA038019	WIRING LOOM V3 AIR OP REAR BOOM	1

Wander boom air operated - blanking cover - left hand - Magnum Plus



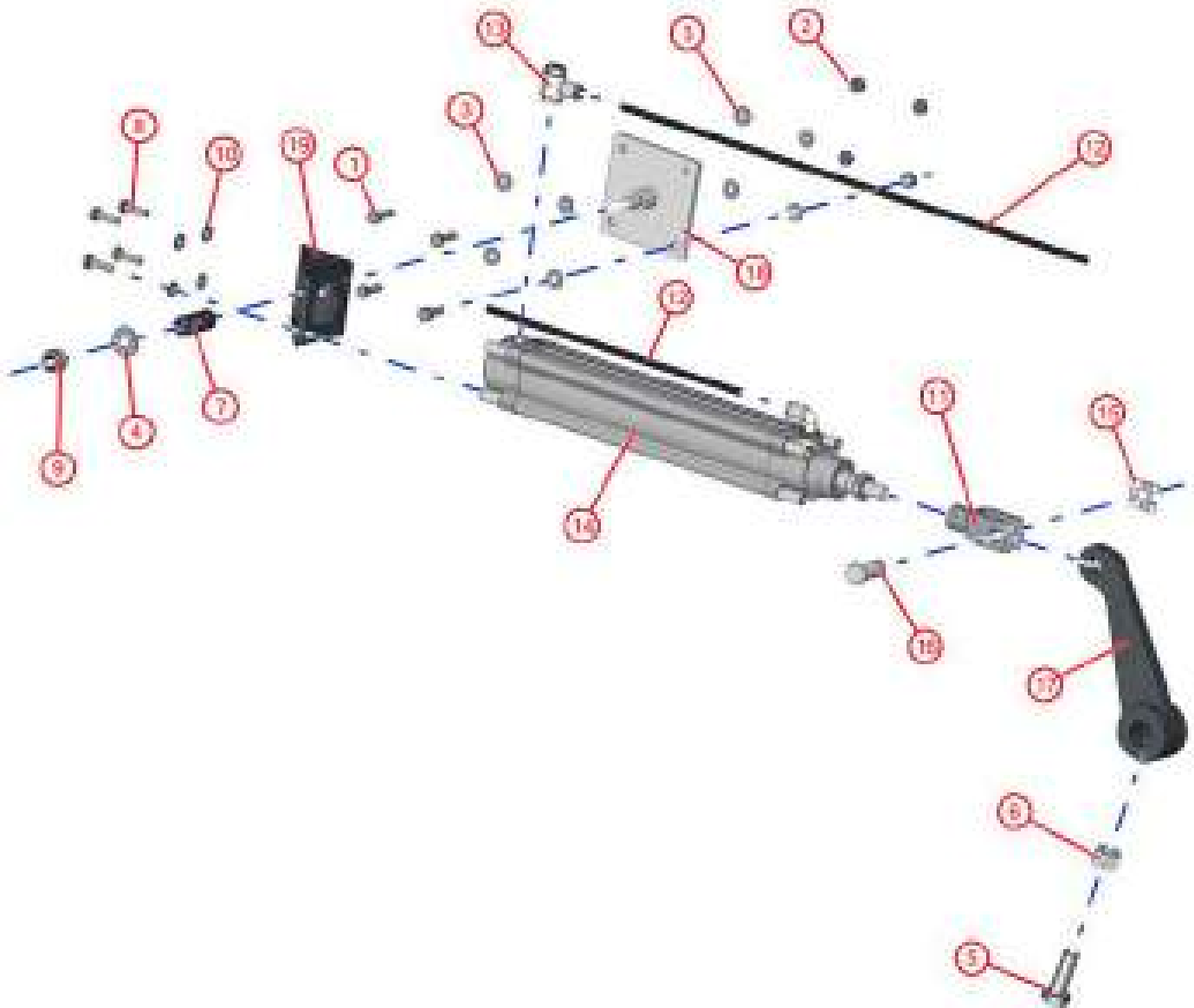
BOM ID	Part No.	Description	Qty
1	SCA000889	M8 DOME NUT	2
2	SCA000897	F. HEX BOLT M5 X 12	3
3	SCA000411	F. M5 S/COIL SPRING WASHER	2
4	SCA011692	F. P. WASHER M5 FORM C	2
5	SCA011131	F. SEAL BLIND RIVET 4.8x16	2
6	SCA012542	GROMMET 1"	1
7	SCA026104	COVER LH RAM WANDERHOSE BLANKING MAGNUM	1
8	SCA030675	INSPECTION PLATE COVER RAM WHOSE BLANK MAG	1
9	SCA044263	GROMMET BLANKING 5.6 DIA	2
10	SCA048222	BLANKING GROMMET 25.4MM (1.5MM PLATE)	1

Wander boom air operated - blanking flap - left hand - Magnum Plus



BOM ID	Part No.	Description	Qty
1	SCA000252	F.BS HEX SETSCREW M6 X 20	4
2	SCA000253	F.BS M6 T NYLOC NUT	4
3	SCA000254	F.BS PWASHER M6 FORM C	8
4	SCA000275	F.BS M12 T NYLOC NUT	1
5	SCA000276	F.BS HEX SETSCREW M12 X 1.25 X 35	1
6	SCA000278	F.BS HEX SETSCREW M12 X 40	1
7	SCA000279	F.BS HEX FULL NUT M12 X 1.25 FINE	1
8	SCA013400	BUSH	2
9	SCA014489	CLEVIS, AIR CYLINDER. M12.	1
10	SCA021487	P.PNEUMATIC CYLINDER 40 X 200	1
11	SCA023200	SAFETY FASTENER 12	1
12	SCA023270	CLEVIS PIN 12	1
13	SCA025254	FLAP LEVER WANDER HOSE	1
14	SCA025471	PIVOT TUBE WANDER HOSE FLAP	1
15	SCA025476	FLAP ARM WANDER HOSE	1
16	SCA025487	WANDER HOSE FLAP MAJOR	1

Wander boom air operated - blanking pneumatic ram - left hand - Magnum Plus



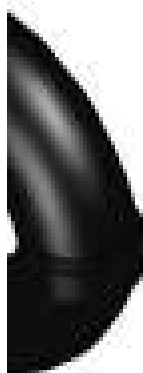
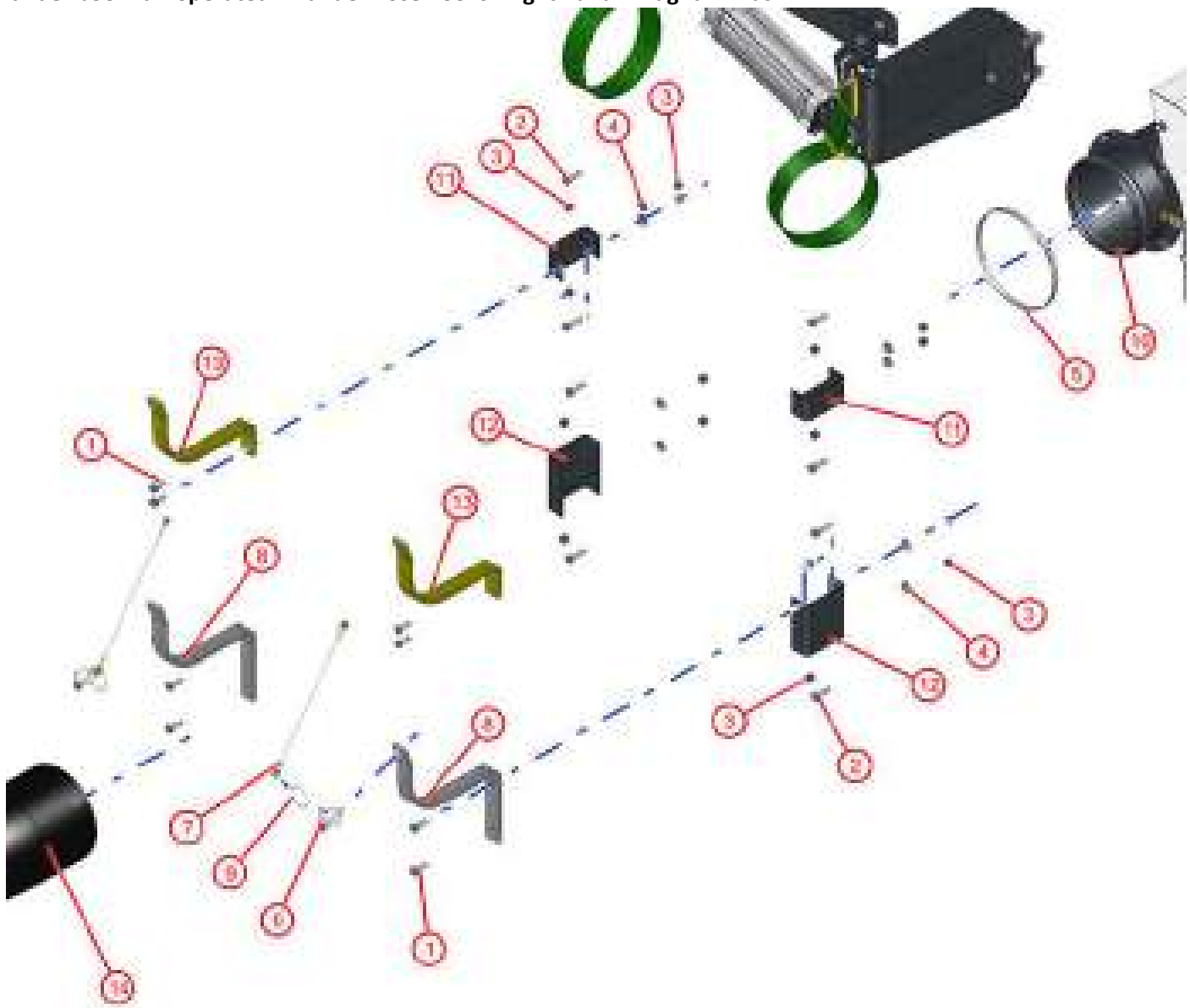
BOM ID	Part No	Description	Qty
1	SCA000252	F SS HEX SETSCREW M6 X 20	4
2	SCA000253	F SS M6 T NYLOC NUT	4
3	SCA000254	F SS PWASHER M6 FORM C	8
4	SCA000270	F SS PWASHER M10 FORM C	1
5	SCA000276	F SS HEX SETSCREW M12 X 1.25 X 35	1
6	SCA000279	F SS HEX FULL NUT M12 X 1.25 FINE	1
7	SCA010950	HOSE 3/8 BLACK BRAIDED PVC	1
8	SCA011067	F HEX HT SETSCREW M6 X 20	4
9	SCA011075	F M10 T NYLOC NUT	1
10	SCA011091	F SPRING WASHER M6 RECT SECT S/C OIL	4
11	SCA014469	CLEVIS, AIR CYLINDER, M12	1
12	SCA014572	P 6MM OD X 1MM WT BLACK AIR PIPE	2
13	SCA021158	P PNEUMATIC FLOW REGULATOR	1
14	SCA021467	P PNEUMATIC CYLINDER 40 X 200	1
15	SCA023260	SAFETY FASTENER 12	1
16	SCA023270	CLEVIS PIN 12	1
17	SCA026254	FLAP LEVER WANDER HOSE	1
18	SCA026524	PIVOT (BOLT ON) RAM - WHOSE FLAP	1
19	SCA030532	AIR RAM MTG BRACKET, WIDESWEEP	1

Wander boom air operated - wander hose and tubes - right hand - Magnum Plus



BOM ID	Part No.	Description	Qty
1	SCA000690	F.BUT HD SKT SCREW M6X16 PLATED	4
2	SCA000253	F.SS M6 T NYLOC NUT	4
3	SCA000254	F.SS PWASHER M6 FORM C	4
4	SCA012933	JUBILEE CLIP No 19.50 (215 - 267)	2
5	SCA025217	SUCTION TUBE 100 (7.5")	1
6	SCA025225	WANDER HOSE SLEEVE 130 DIA.	1
7	SCA026808	TUBE - BOOM EXTENSION KIT	1
8	SCA031214	REDUCING COLLAR - GULLEY EXT.TUBE	1
9	SCA040870	ASSY WANDER HOSE HANDLE (150 DIA)	1
10	SCA042531	100MM WANDER HOSE 7M LG REAR BOOM	1

Wander boom air operated - wander hose hooks - right hand - Magnum Plus



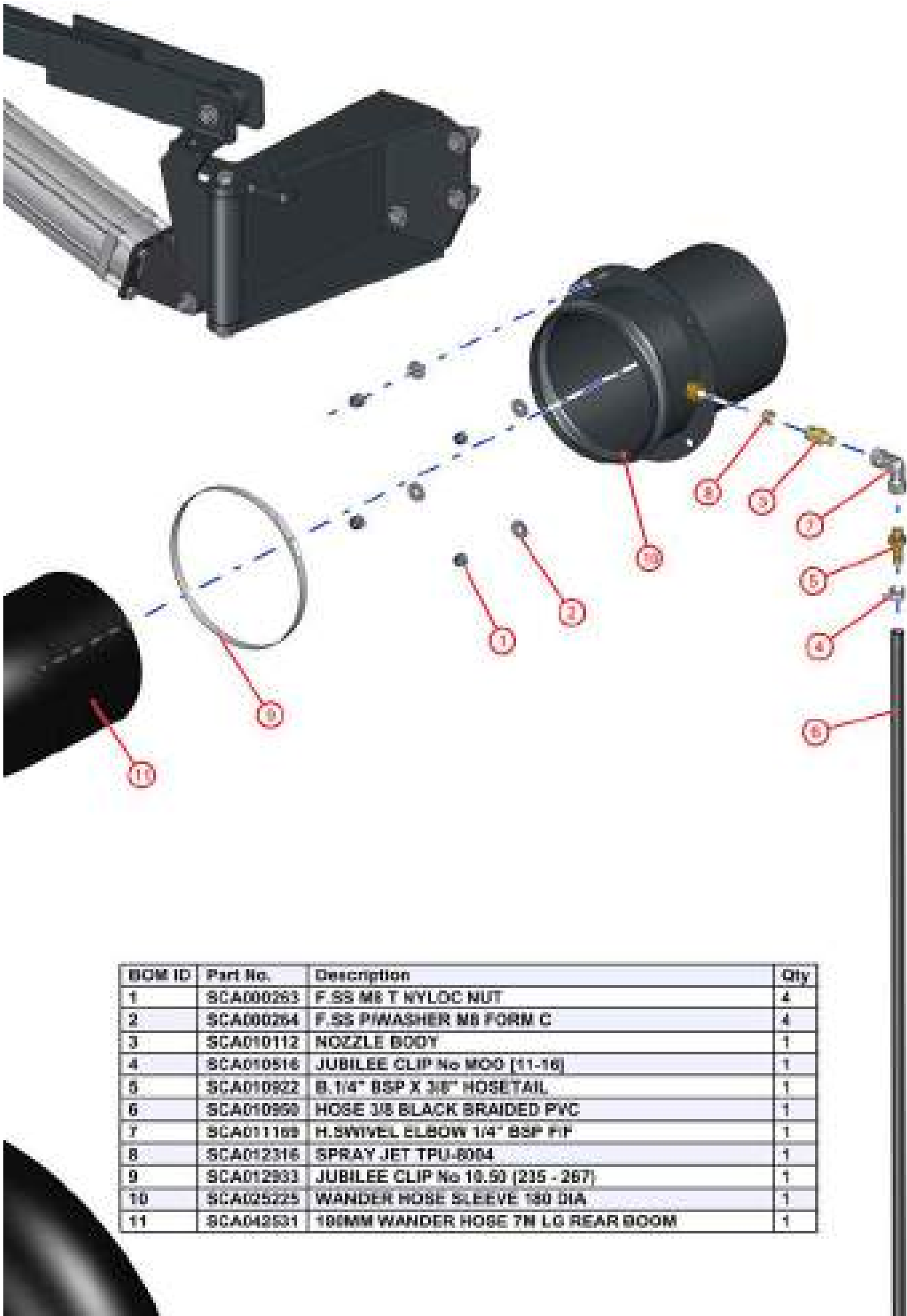
BOM ID	Part No.	Description	Qty
1	SCA000257	F.SS HEX SETSCREW M8 X 25	8
2	SCA000258	F.SS HEX SETSCREWS M8 X 30	8
3	SCA000263	F.SS M8 T NYLOC NUT	16
4	SCA000264	F.SS PWASHER M8 FORM C	8
5	SCA012933	JUBILEE CLIP No 10.50 (215 - 267)	1
6	SCA013507	LINCH PIN & CHAIN MAINSCREEN	2
7	SCA020711	CABLE LEASH	2
8	SCA022747	WANDER PIPE HOOK	2
9	SCA023599	RING PULL WANDERBOOM LATCH	2
10	SCA025225	WANDER HOSE SLEEVE 180 DIA	1
11	SCA028188	BOOM SPACER SMALL WHOSE HOOKS 8000	2
12	SCA028189	BOOM SPACER LARGE WHOSE HOOKS 8000	2
13	SCA030808	WANDER BOOM EXT HOOK	2
14	SCA042531	180MM WANDER HOSE 7M LG REAR BOOM	1

Wander boom air operated - wander hose straps - right hand - Magnum Plus



BOB ID	Part No.	Description	Qty
1	SCA010606	CARABINER	4
2	SCA012548	ANGLE BRACKET	1
3	SCA012903	JUBILEE CLIP No 18,50 (215 - 267)	1
4	SCA025225	WANDER HOSE SLEEVE 180 DIA	1
5	SCA025235	WANDER HOSE STRAP	4
6	SCA027926	HOSE SUPPORT BOOM AIR OPERATED	1
7	SCA042531	180MM WANDER HOSE 7M LG REAR BOOM	1

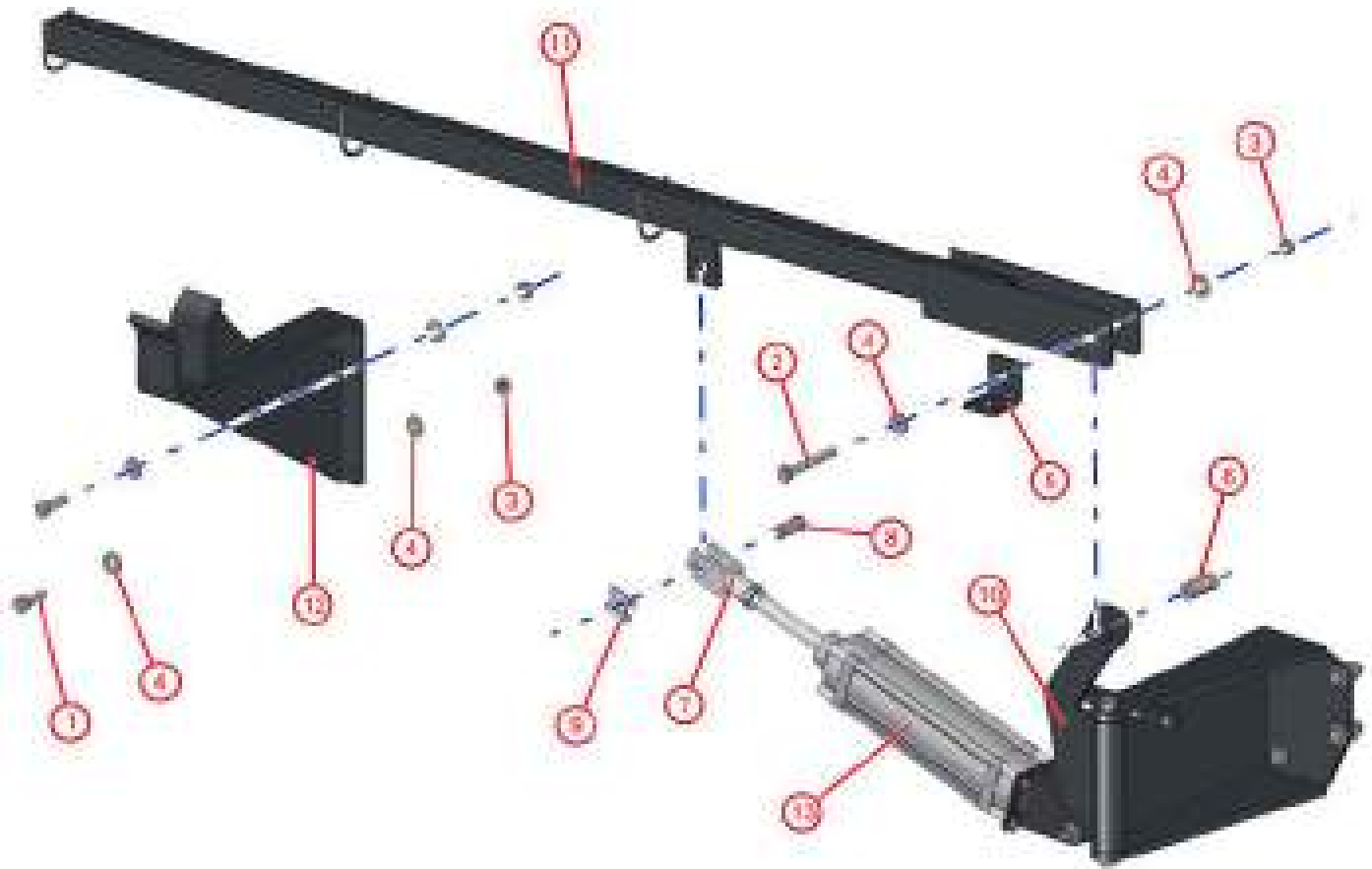
Wander boom air operated - wander hose sleeve - right hand - Magnum Plus



BOM ID	Part No.	Description	Qty
1	SCA000263	F.SS M8 T NYLOC NUT	4
2	SCA000264	F.SS PIWASHER M8 FORM C	4
3	SCA010112	NOZZLE BODY	1
4	SCA010516	JUBILEE CLIP No MOO (11-16)	1
5	SCA010922	B.1/4" BSP X 3/8" HOSETAIL	1
6	SCA010950	HOSE 3/8 BLACK BRAIDED PVC	1
7	SCA011169	H.SWIVEL ELBOW 1/4" BSP FIF	1
8	SCA012316	SPRAY JET TPU-8004	1
9	SCA012933	JUBILEE CLIP No 10.50 (235 - 267)	1
10	SCA025225	WANDER HOSE SLEEVE 130 DIA	1
11	SCA042531	100MM WANDER HOSE 7M LG REAR BOOM	1

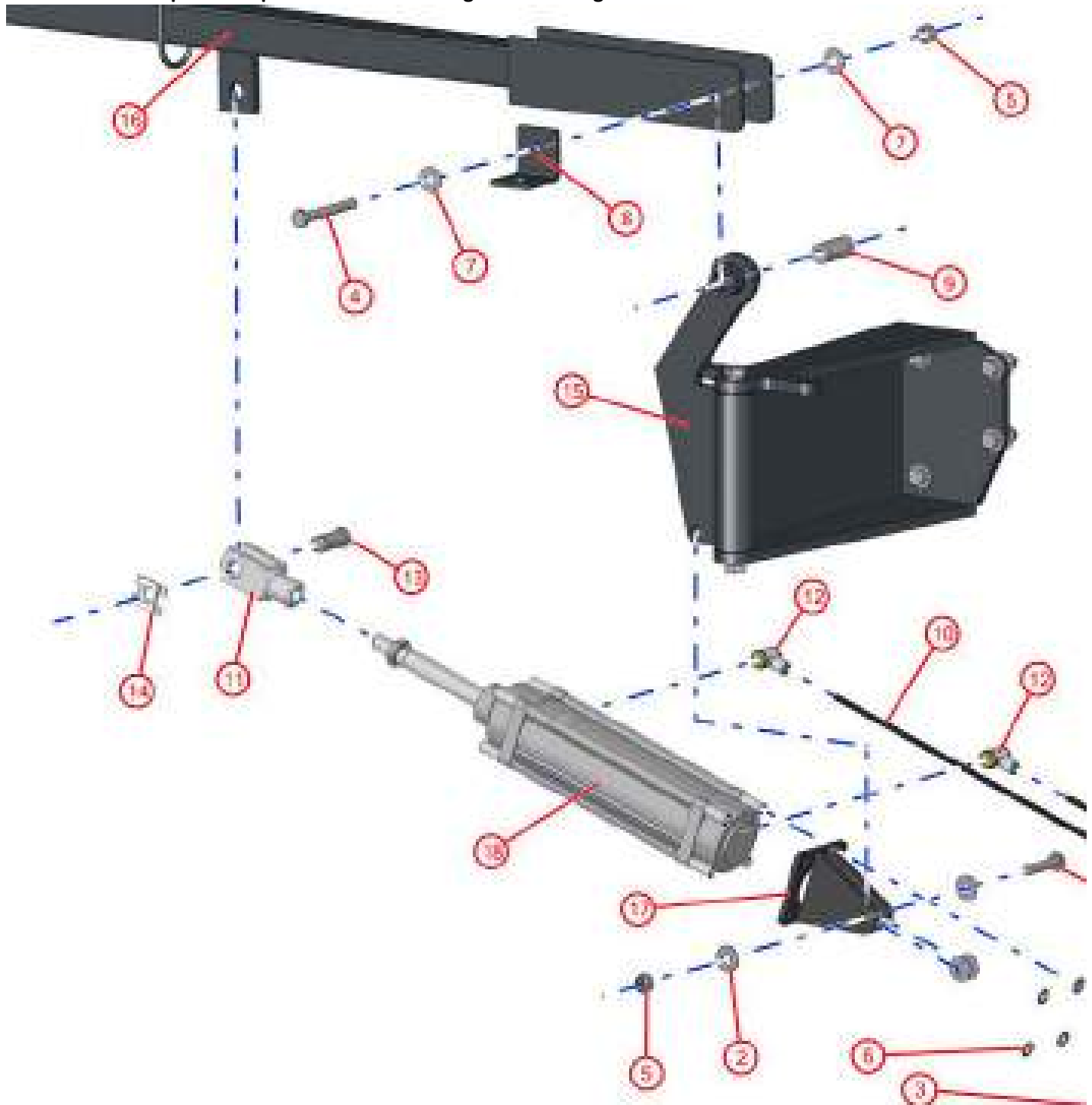
Suction

Wander boom air operated - wander boom and stowage - right hand - Magnum Plus



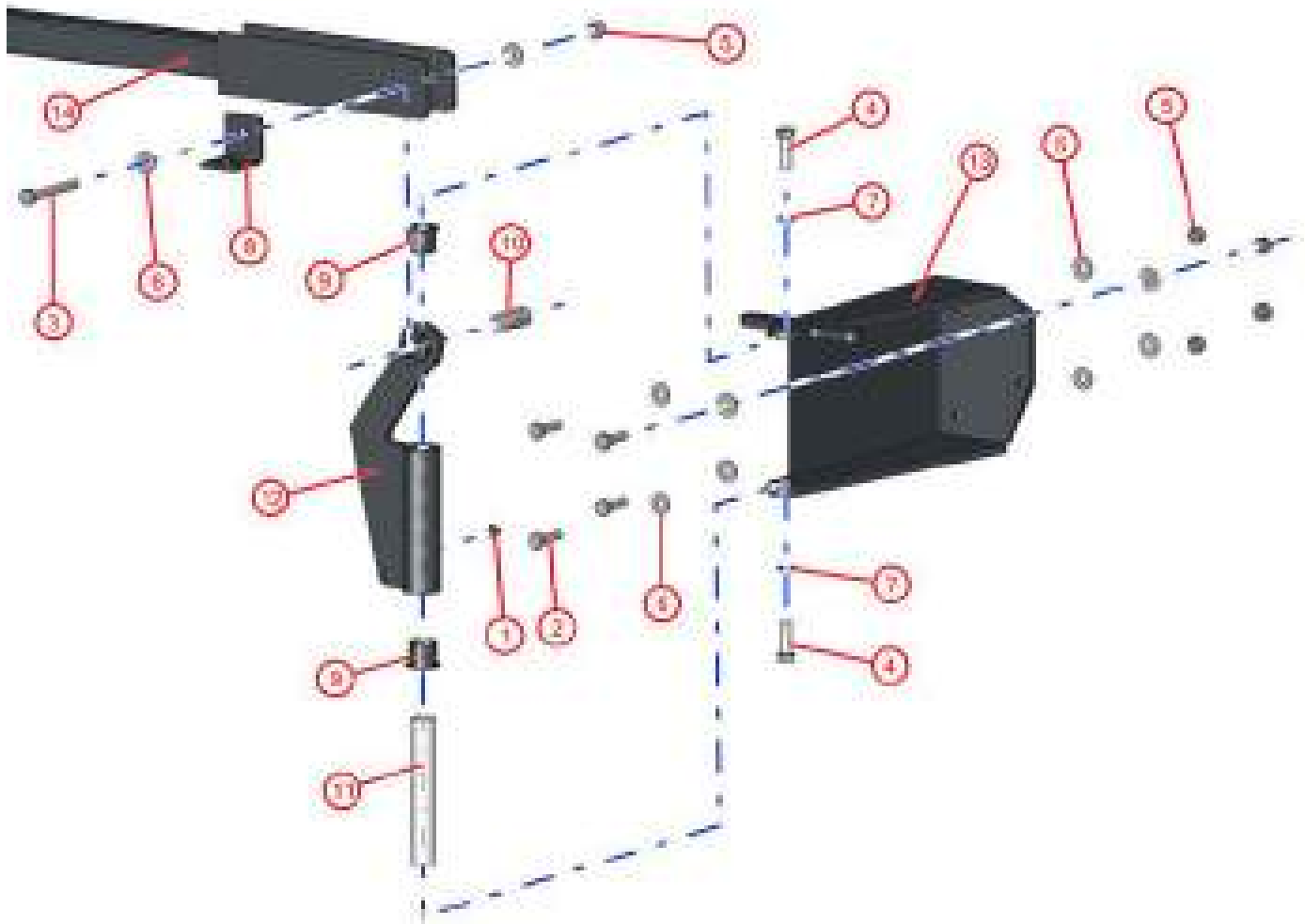
BOM ID	Part No.	Description	Qty
1	SCA011033	F.HEX HT SETSCREW M10 X 35	2
2	SCA011038	F.HEX HT BOLT M10 X 80	1
3	SCA011075	F.M10 T NYLOC NUT	3
4	SCA011094	F.PWASHER M10 FORM C	6
5	SCA012548	ANGLE BRACKET	1
6	SCA014399	SPACER 20 X 10.5 X 41 LG	1
7	SCA020299	CLEVIS PNEUMATIC M16 X 1.5	1
8	SCA022673	CLEVIS PIN (TURNED)	1
9	SCA022674	CLIP RETAINING M16	1
10	SCA025219	WANDER HOSE HNGE	1
11	SCA027906	HOSE SUPPORT BOOM AIR OPERATED	1
12	SCA027909	STOWAGE BRKT AIR OPERATED BOOM	1
13	SCA028306	P.PNEUMATIC CYL 63 X 110	1

Wander boom air operated - pneumatic lift ram - right hand - Magnum Plus



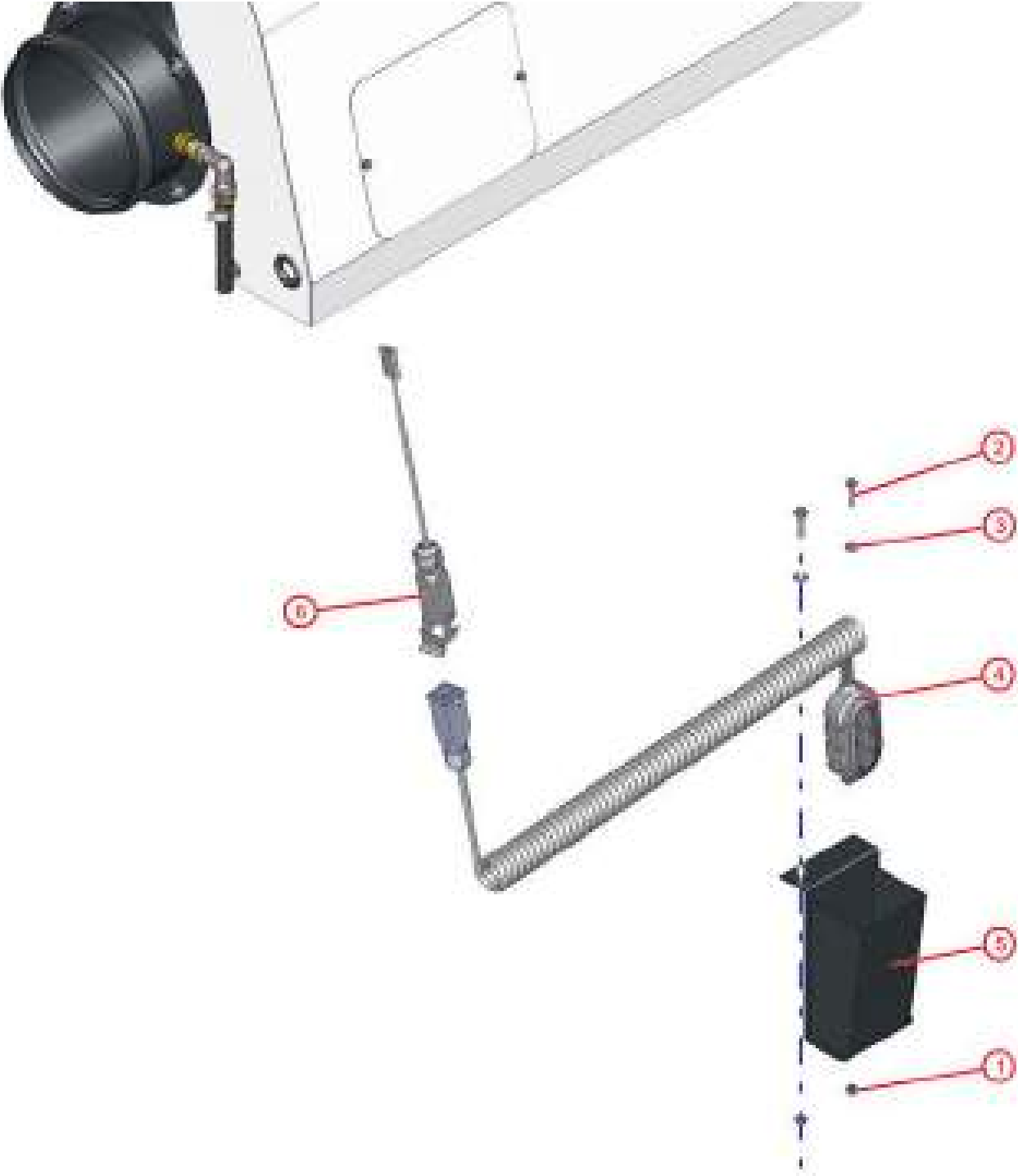
BOM ID	Part No.	Description	Qty
1	SCA000072	F.HEX HT SETSCREW M10 X 45	1
2	SCA000270	F.BS P/WASHER M10 FORM C	4
3	SCA011011	F.HEX HT SETSCREW M8 X 25	4
4	SCA011038	F.HEX HT BOLT M10 X 80	1
5	SCA011075	F.M10 T NYLOC NUT	2
6	SCA011093	F.SPRING WASHER M8 RECT SECT S/COIL	4
7	SCA011094	F.P/WASHER M10 FORM C	2
8	SCA012548	ANGLE BRACKET	1
9	SCA014399	SPACER 20 X 10.5 X 41 LG	1
10	SCA014572	P.6MM OD X 1MM WT BLACK AIR PIPE	2
11	SCA020299	CLEVIS PNEUMATIC M16 X 1.5	1
12	SCA021158	P.PNEUMATIC FLOW REGULATOR	2

Wander boom air operated - hinge and bracket - right hand - Magnum Plus



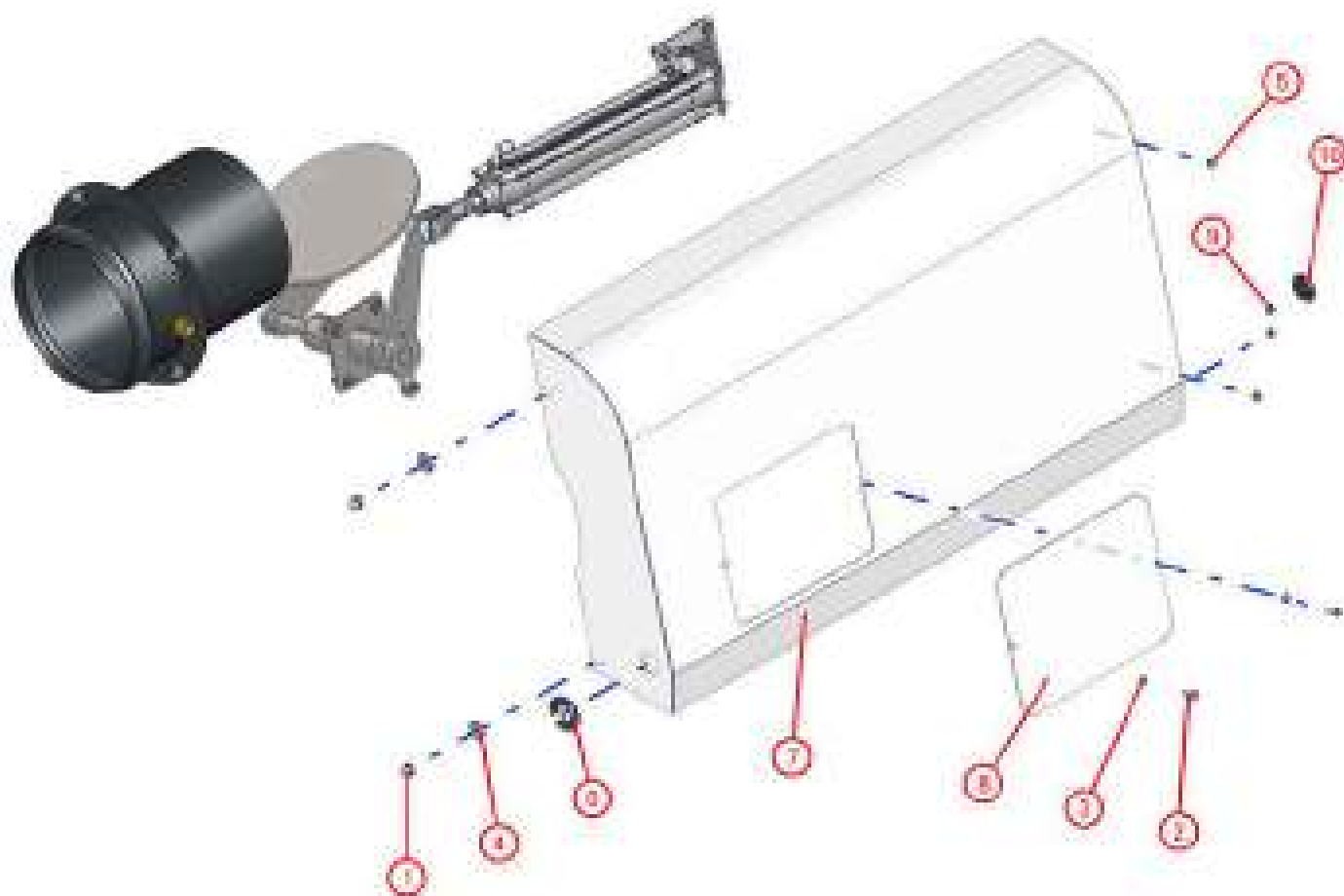
BOM ID	Part No.	Description	Qty
1	SCA010303	GREASE NIPPLE 1/8" BSP STR	1
2	SCA011003	F HEX HT SETSCREW M10 X 35	4
3	SCA011038	F HEX HT BOLT M10 X 80	1
4	SCA011053	F HEX HT SETSCREW M12 X 35	2
5	SCA011075	F M10 T NYLOC NUT	5
6	SCA011094	F PWASHER M10 FORM C	10
7	SCA011097	F SPRING WASHER M12 RECT SECT S/COIL	2
8	SCA012548	ANGLE BRACKET	1
9	SCA013662	BUSH BRUSH PNYOTS	2
10	SCA014388	SPACER 20 X 10.5 X 41 LG	1
11	SCA023490	HINGE SHAFT BOOM	1
12	SCA025216	WANDER HOSE HINGE	1
13	SCA025574	WANDER HOSE SUPPORT RH MAJOR/MAXIM	1
14	SCA027926	HOSE SUPPORT BOOM AIR OPERATED	1

Wander boom air operated - controls - right hand - Magnum Plus



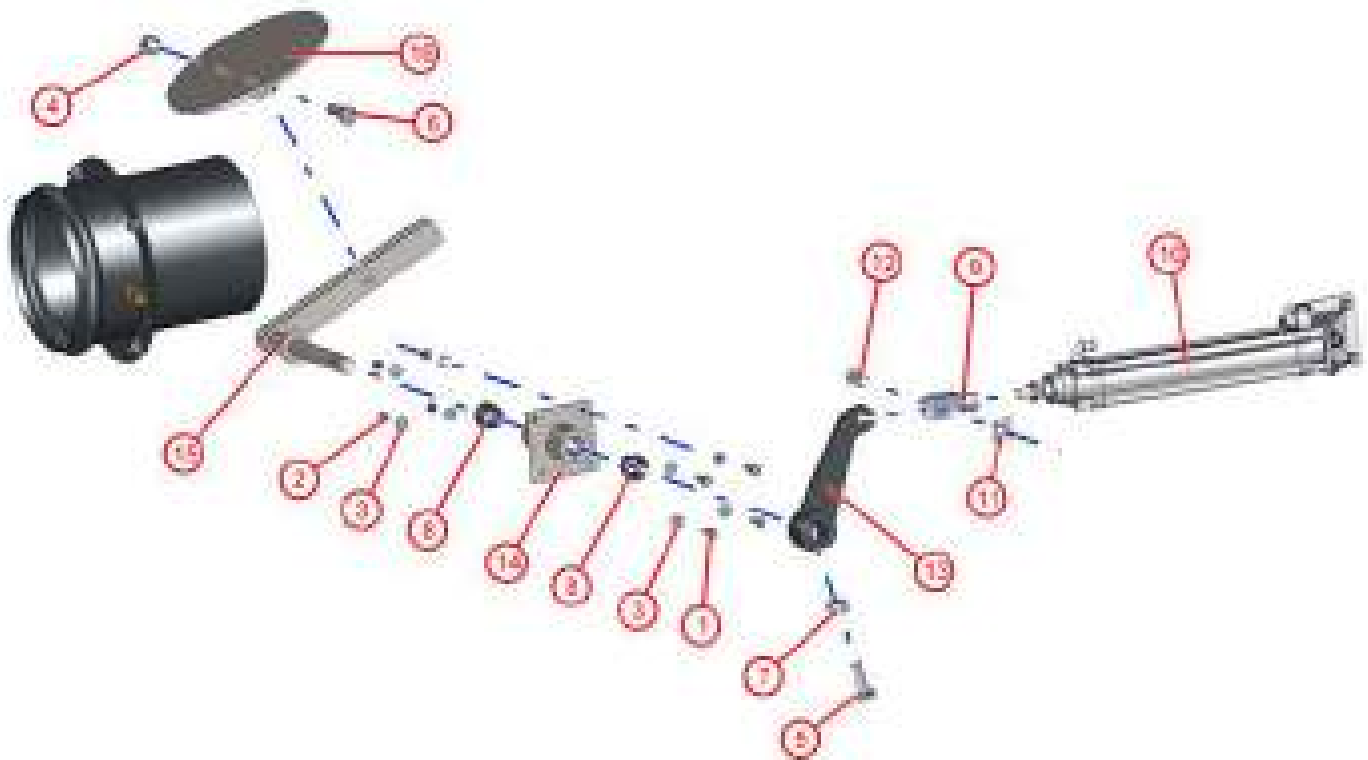
BOM ID	Part No.	Description	Qty
1	SCA011071	F.M6 T NYLOC NUT	2
2	SCA011087	F.HEX HT SETSCREW M6 X 15	2
3	SCA011090	F.PWASHER M6 FORM C	2
4	SCA028267	3 BUTTON PENDANT WITH SPIRAL CABLE	1
5	SCA028355	PENDANT HOLSTER REAR AIR OPERATED BOOM	1
6	SCA030919	WIRING LOOM V3 AIR OP REAR BOOM	1

Wander boom air operated - blanking cover - right hand - Magnum Plus



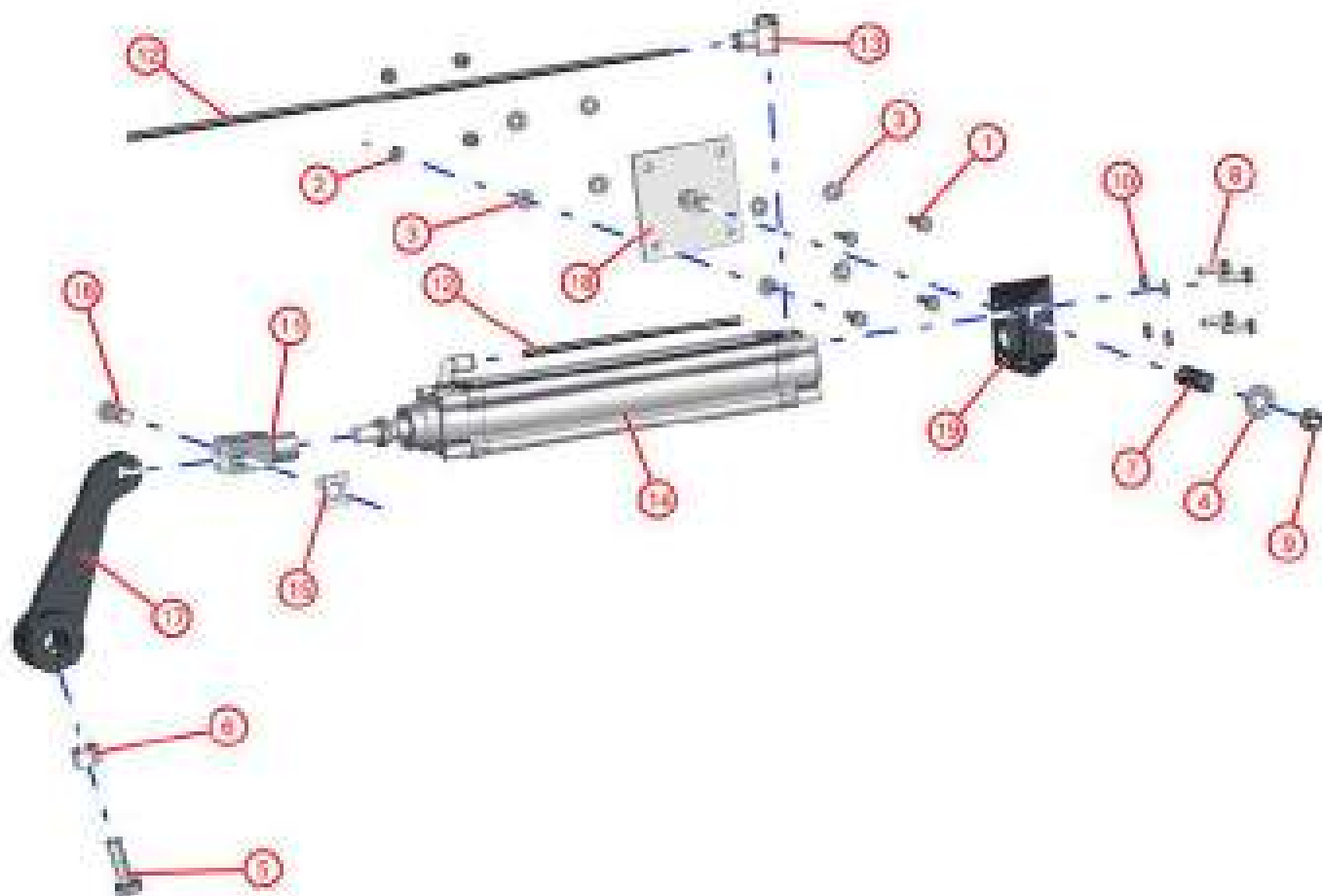
BCM ID	Part No.	Description	Qty
1	SCA000089	M8 DOME NUT	2
2	SCA000007	F HEX BOLT M5 X 12	2
3	SCA000411	F M5 STEEL SPRING WASHER	2
4	SCA011092	F PINWASHER M8 FORM C	2
5	SCA011131	F SEAL BLIND RIVET 4.8x18	2
6	SCA012542	GROMMET 1"	1
7	SCA026105	COVER RH RAM VANDERHOSE BLANKING MAGNUM	1
8	SCA030675	INSPECTION PLATE COVER RAM WHOSE BLANK MAG	1
9	SCA044263	GROMMET BLANKING 5.0 DIA	2
10	SCA048222	BLANKING GROMMET 25.4MM (1.6MM PLATE)	1

Wander boom air operated - blanking flap - right hand - Magnum Plus



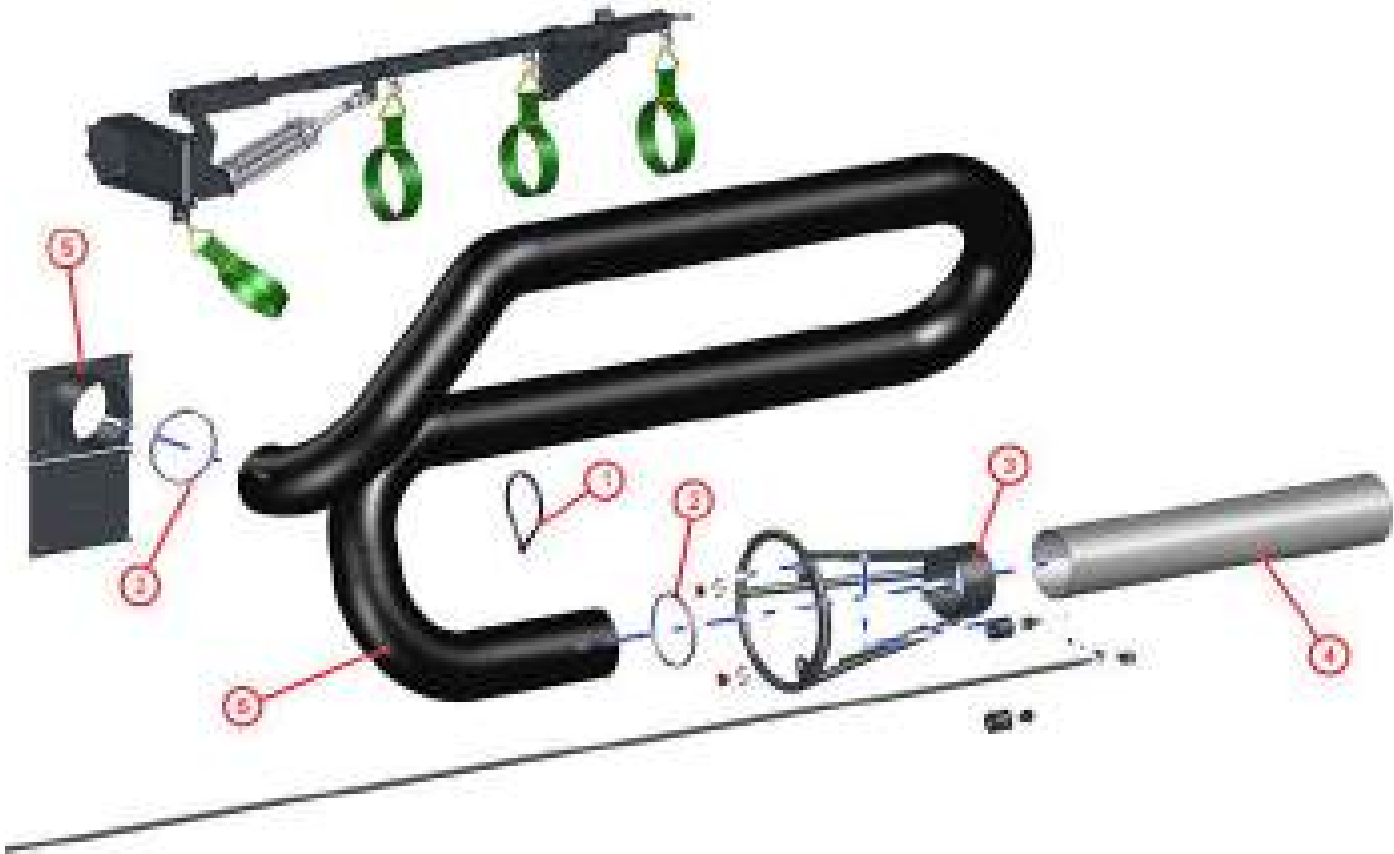
BOM ID	Part No.	Description	Qty
1	SCA000252	F SS HEX SETSCREW M6 X 20	4
2	SCA000253	F SS M6 T NYLOC NUT	4
3	SCA000254	F SS PWASHER M6 FORM C	8
4	SCA000275	F SS M12 T NYLOC NUT	1
5	SCA000276	F SS HEX SETSCREW M12 X 1.25 X 35	1
6	SCA000278	F SS HEX SETSCREW M12 X 40	1
7	SCA000279	F SS HEX FULL NUT M12 X 1.25 FINE	1
8	SCA013486	BUSH	2
9	SCA014409	CLEVIS, AIR CYLINDER, M12	1
10	SCA021467	P PNEUMATIC CYLINDER 40 X 200	1
11	SCA023269	SAFETY FASTENER 12	1
12	SCA023270	CLEVIS PIN 12	1
13	SCA025354	FLAP LEVER WANDER HOSE	1
14	SCA025471	PWOT TUBE WANDER HOSE FLAP	1
15	SCA025475	FLAP ARM WANDER HOSE	1
16	SCA025487	WANDER HOSE FLAP MAJOR	1

Wander boom air operated - blanking pneumatic ram - right hand - Magnum Plus



BOM ID	Part No	Description	Qty
1	SCA000252	F SS HEX SETSCREW M6 X 20	4
2	SCA000253	F SS M6 T NYLOC NUT	4
3	SCA000254	F SS PWASHER M6 FORM C	8
4	SCA000270	F SS PWASHER M10 FORM C	1
5	SCA000276	F SS HEX SETSCREW M12 X 1.25 X 35	1
6	SCA000279	F SS HEX FULL NUT M12 X 1.25 FINE	1
7	SCA010950	HOSE 3/8 BLACK BRAIDED PVC	1
8	SCA011067	F HEX HT SETSCREW M8 X 20	4
9	SCA011075	F M10 T NYLOC NUT	1
10	SCA011091	F SPRING WASHER M6 RECT SECT S/COIL	4
11	SCA014469	CLEVIS, AIR CYLINDER, M12	1
12	SCA014572	P 6MM OD X 1MM WT BLACK AIR PIPE	2
13	SCA021158	P PNEUMATIC FLOW REGULATOR	1
14	SCA021467	P PNEUMATIC CYLINDER 40 X 200	1
15	SCA023260	SAFETY FASTENER 12	1
16	SCA023270	CLEVIS PIN 12	1
17	SCA026254	FLAP LEVER WANDER HOSE	1
18	SCA026524	PWOT (BOLT ON) RAM - WHOSE FLAP	1
19	SCA030532	AIR RAM MTG BRACKET, WIDESWEEP	1

Wander boom door mounted air operated 180mm hose - wander hose and tube - left hand - Magnum Plus



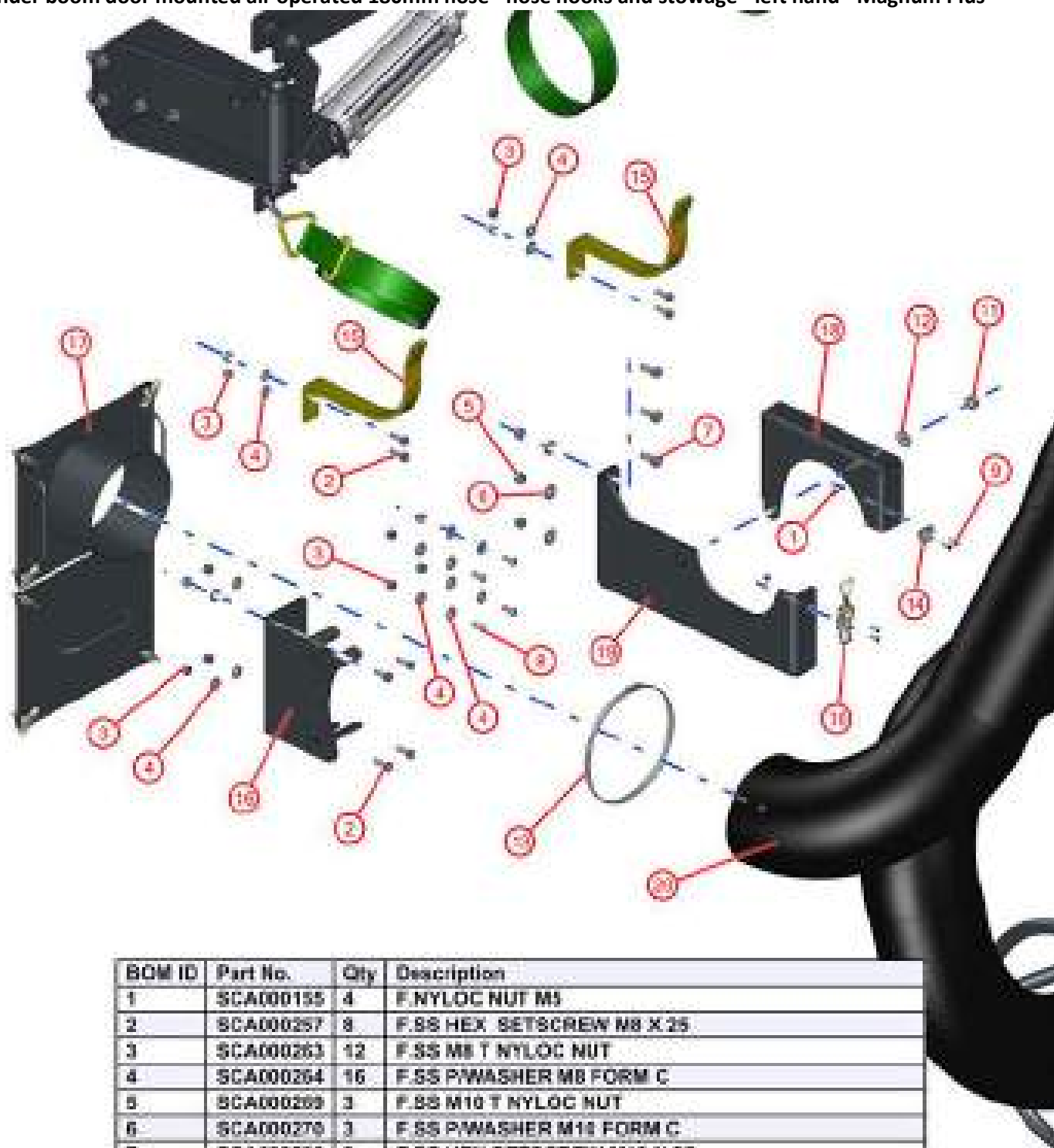
BOM ID	Part No.	Qty	Description
1	SCA005106	8	CABLE TIE BLACK T120L
2	SCA012932	2	JUBILEE CLIP NO 8.50 (184 - 214)
3	SCA035808	1	DDD REAR BOOM HANDLE 180 DIA
4	SCA035859	1	BOOM TUBE DDD TYPE 180 DIA
5	SCA035861	1	SPIGOT PLATE DDD 180 DIA REAR BOOM
6	SCA042531	1	180MM WANDER HOSE 7M LG REAR BOOM

Wander boom door mounted air operated 180mm hose - handle and controls - left hand - Magnum Plus



BOM ID	Part No.	Qty	Description
1	SCA000250	1	F.SS HEX SETSCREW M6 X 16
2	SCA000255	1	F.SS SPRING WASHER M6 RECT SECT S/COIL
3	SCA000342	8	F.M4X16 BUT HD SKT SCREW
4	SCA010516	1	JUBILEE CLIP No M60 [11-16]
5	SCA010950	1	HOSE 3/8 BLACK BRAIDED PVC
6	SCA012932	1	JUBILEE CLIP NO 8.50 [184 - 214]
7	SCA013360	1	ASSY SPRAY JET WATER SQUARE BLOCK
8	SCA035294	2	SWITCH PLATE COVER DDD REAR BOOM HANDLE
9	SCA035474	2	EL CABLE GLAND M20
10	SCA035947	2	DDD REAR BOOM SWITCH
11	SCA035958	1	DDD REAR BOOM HANDLE 180 DIA
12	SCA035959	1	BOOM TUBE DDD TYPE 180 DIA
13	SCA038598	1	WIRING LOOM V3 REAR MOUNTED BOOM DDD
14	SCA042531	1	180MM WANDER HOSE 7M LG REAR BOOM

Wander boom door mounted air operated 180mm hose - hose hooks and stowage - left hand - Magnum Plus



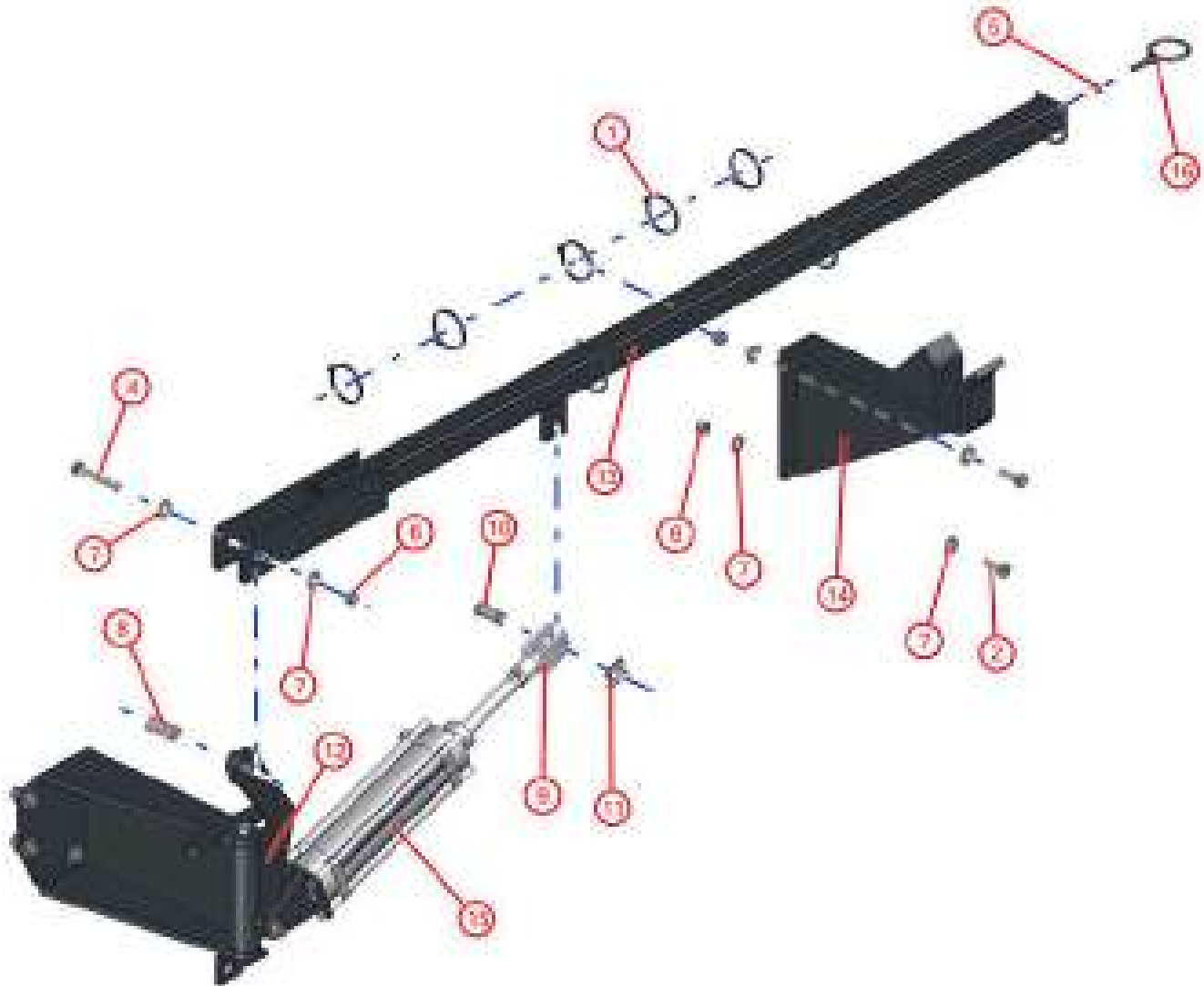
BOM ID	Part No.	Qty	Description
1	SCA000155	4	F.NYLOC NUT M5
2	SCA000257	8	F.SS HEX SETSCREW M8 X 25
3	SCA000263	12	F.SS M8 T NYLOC NUT
4	SCA000264	16	F.SS PWASHER M8 FORM C
5	SCA000269	3	F.SS M10 T NYLOC NUT
6	SCA000270	3	F.SS PWASHER M10 FORM C
7	SCA000280	3	F.SS HEX SETSCREW M10 X 25
8	SCA000329	4	F.SS HEX SETSCREW M8 X 20
9	SCA000389	4	M5X16 CSK POZI ZINC/CLEAR
10	SCA010509	1	F.OJOP FASTENER WITH HINGED TOGGLE
11	SCA011077	1	F.M12 T NYLOC NUT
12	SCA011090	1	F.PWASHER M12 FORM C
13	SCA012932	1	JUBILEE CLIP NO 8.50 (184 - 214)
14	SCA021841	1	TOGGLE CLIP HOOK
15	SCA030808	2	WANDER BOOM EXT HOOK
16	SCA034821	1	BOOM MOUNTING HOOK DDD TYPE
17	SCA035861	1	SPIGOT PLATE DDD 180 DIA REAR BOOM
18	SCA035862	1	BOOM MOUNTING LOCK DDD TYPE 180 DIA
19	SCA035863	1	BOOM MOUNTING CUP DDD TYPE 180 DIA
20	SCA042531	1	180MM WANDER HOSE 7M LG REAR BOOM

Wander boom door mounted air operated 180mm hose - hose straps - left hand - Magnum Plus



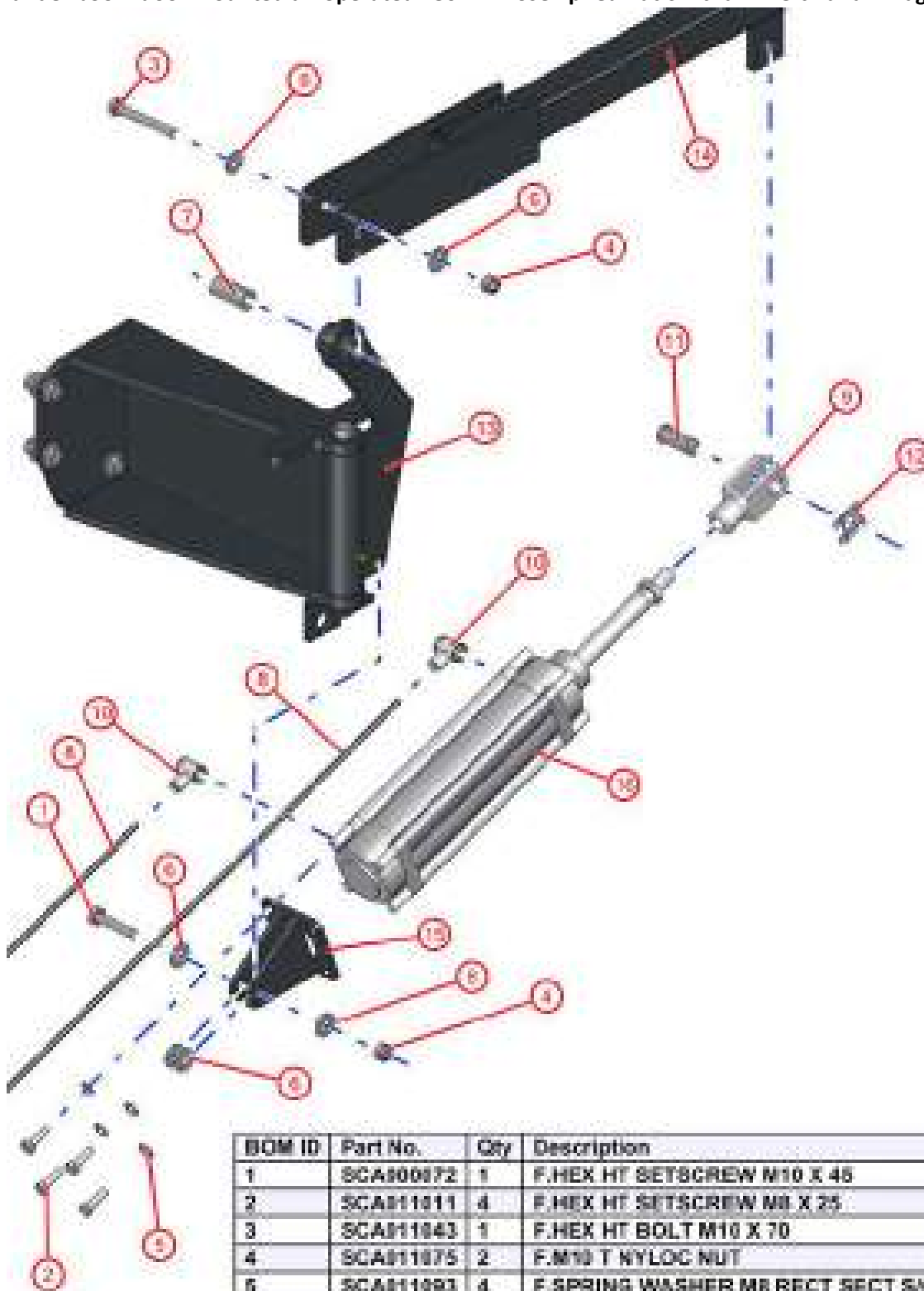
BOOM ID	Part No.	Qty	Description
1	SCA010606	4	CARABINER
2	SCA012548	1	ANGLE BRACKET
3	SCA012932	1	JUBILEE CLIP NO 8.50 (184 - 214)
4	SCA025235	4	WANDER HOSE STRAP
5	SCA027926	1	HOSE SUPPORT BOOM AIR OPERATED
6	SCA035961	1	SPIGOT PLATE ØØØ 180 DIA REAR BOOM
7	SCA042531	1	180MM WANDER HOSE 7M LG REAR BOOM

Wander boom door mounted air operated 180mm hose - boom and stowage - left hand - Magnum Plus



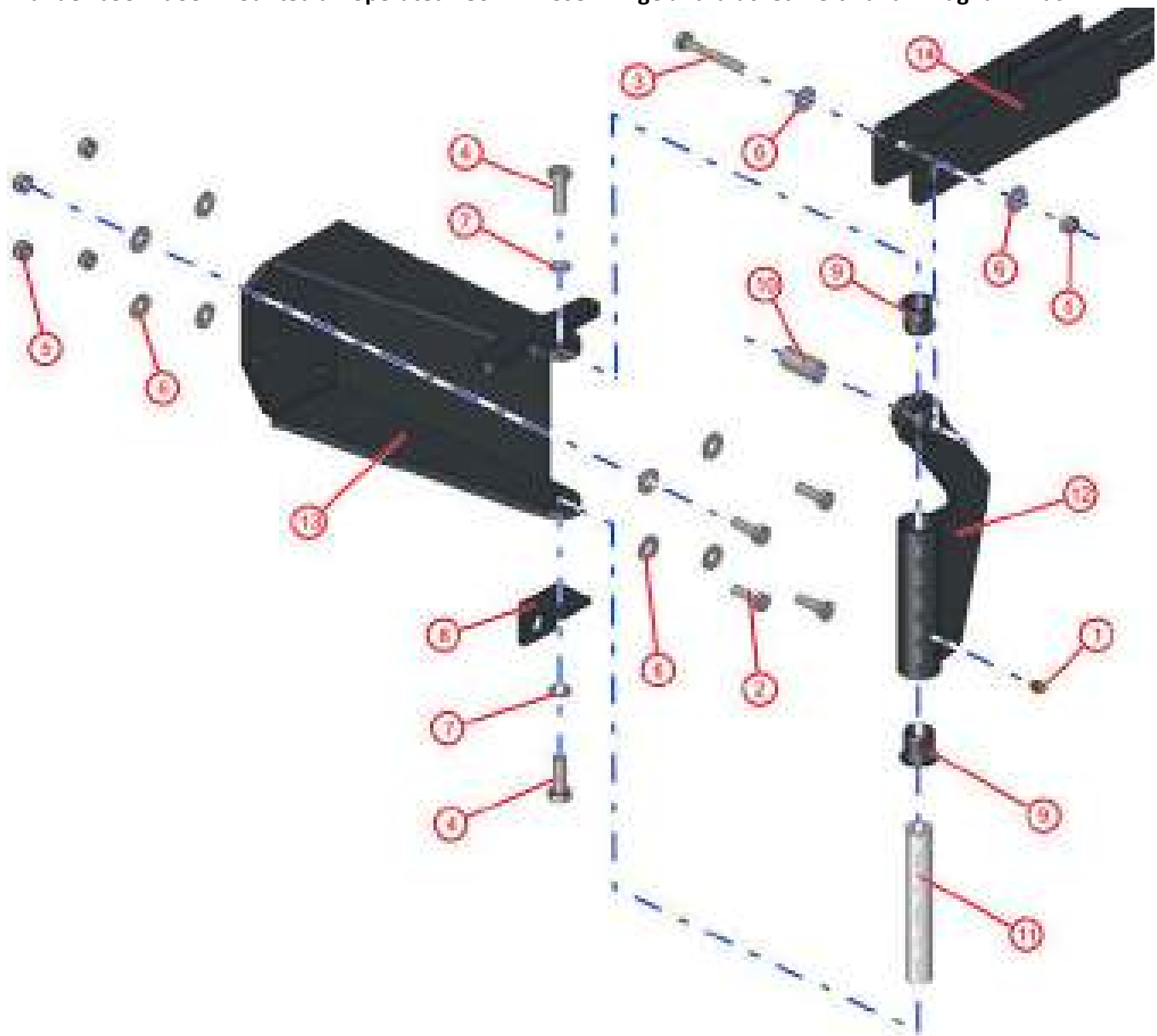
BGM ID	Part No.	Qty	Description
1	SCA005017	5	CABLE TIE BLACK X80L
2	SCA011032	2	F.HEX HT SETSCREW M10 X 30
4	SCA011043	1	F.HEX HT BOLT M10 X 70
5	SCA011072	1	F.HEX FULL NUT M8
6	SCA011075	3	F.M10 T NYLOC NUT
7	SCA011094	6	F.PWASHER M10 FORM C
8	SCA014399	1	SPACER 20 X 10.5 X 41 LG
9	SCA020299	1	CLEVIS PNEUMATIC M16 X 1.5
10	SCA022673	1	CLEVIS PIN (TURNED)
11	SCA022674	1	CLIP RETAINING M16
12	SCA025219	1	WANDER HOSE HINGE
13	SCA027906	1	HOSE SUPPORT BOOM AIR OPERATED
14	SCA027909	1	STOWAGE BRKT AIR OPERATED BOOM
15	SCA028308	1	P.PNEUMATIC CYL 63 X 180
16	SCA030022	1	HOSE RING FRONT BRUSH MINOR

Wander boom door mounted air operated 180mm hose - pneumatic lift ram - left hand - Magnum Plus



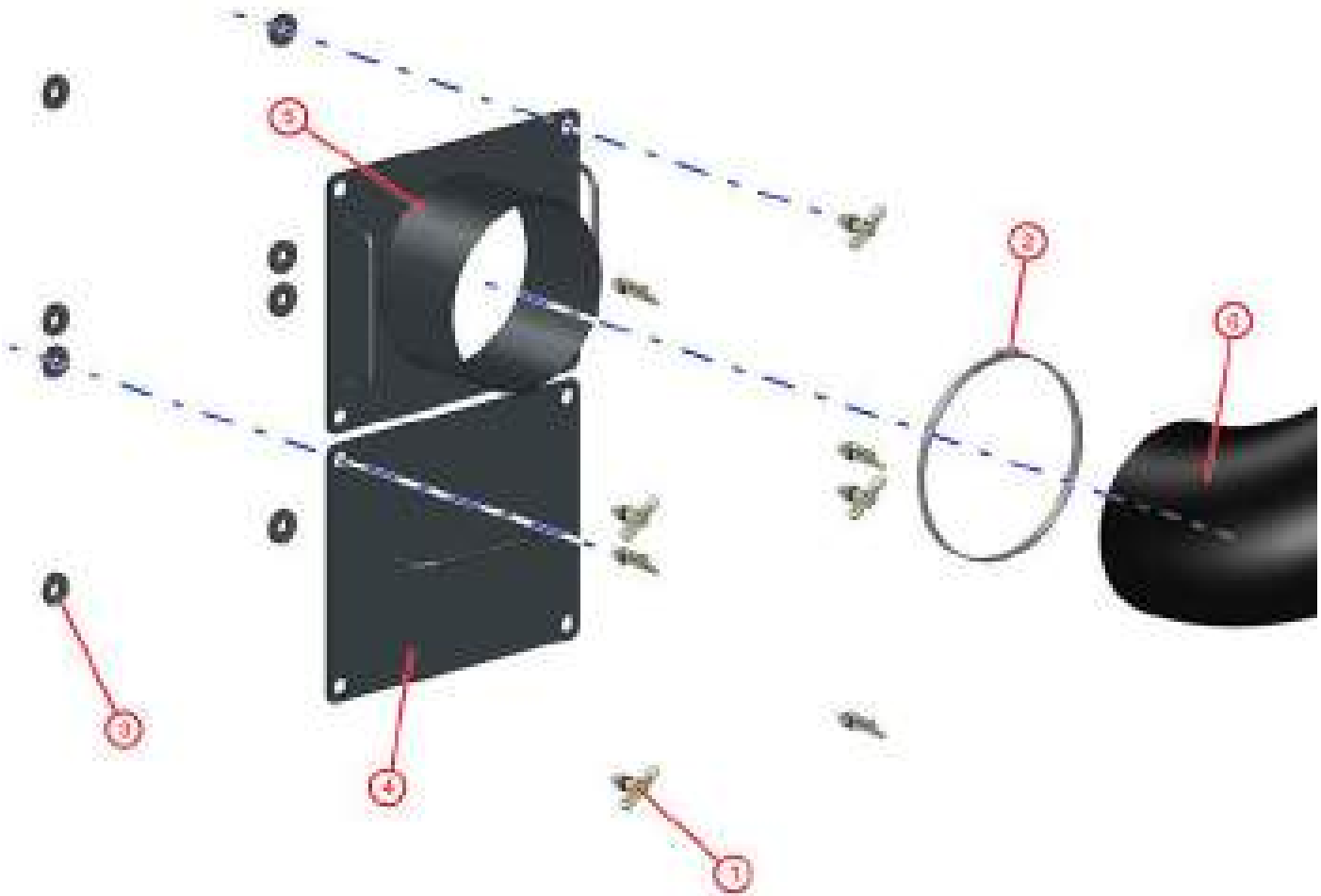
BOM ID	Part No.	Qty	Description
1	SCA00072	1	F.HEX HT SETSCREW M10 X 45
2	SCA011011	4	F.HEX HT SETSCREW M8 X 25
3	SCA011043	1	F.HEX HT BOLT M10 X 70
4	SCA011075	2	F.M10 T NYLOC NUT
5	SCA011093	4	F.SPRING WASHER M8 RECT SECT SICOIL
6	SCA011094	6	F.PWASHER M10 FORM C
7	SCA014399	1	SPACER 20 X 10.5 X 41 LG
8	SCA014572	2	P.6MM OD X 1MM WT BLACK AIR PIPE
9	SCA020299	1	CLEVIS PNEUMATIC M16 X 1.5
10	SCA021158	2	P.PNEUMATIC FLOW REGULATOR
11	SCA022673	1	CLEVIS PIN (TURNED)
12	SCA022674	1	CLIP RETAINING M16
13	SCA025219	1	WANDER HOSE HINGE
14	SCA027926	1	HOSE SUPPORT BOOM AIR OPERATED
15	SCA028305	1	AIR RAM PIVOT BRKT
16	SCA028306	1	P.PNEUMATIC CYL 63 X 160

Wander boom door mounted air operated 180mm hose - hinge and bracket - left hand - Magnum Plus



BOM ID	Part No.	Qty	Description
1	SCA010903	1	GREASE NIPPLE 1/8" BSP STR
2	SCA011032	4	F.HEX HT SETSCREW M10 X 30
3	SCA011043	1	F.HEX HT BOLT M10 X 70
4	SCA011053	2	F.HEX HT SETSCREW M12 X 35
5	SCA011075	5	F.M10 T NYLOC NUT
6	SCA011094	10	F.P/WASHER M10 FORM C
7	SCA011097	2	F.SPRING WASHER M12 RECT SECT S/COLL
8	SCA012548	1	ANGLE BRACKET
9	SCA013662	2	BUSH BRUSH PIVOTS
10	SCA014399	1	SPACER 20 X 10.5 X 41 LG
11	SCA023490	1	HINGE SHAFT BOOM
12	SCA025219	1	WANDER HOSE HINGE
13	SCA025220	1	WANDER HOSE SUPPORT LH
14	SCA027926	1	HOSE SUPPORT BOOM AIR OPERATED

Wander boom door mounted air operated 180mm hose - spigot and blanking - left hand - Magnum Plus



BOM ID	Part No.	Qty	Description
1	SCA012253	8	ANTILUCE (SMALL)
2	SCA012932	1	JUBILEE CLIP NO 8.50 (184 - 214)
3	SCA021979	8	RUBBER SEALING WASHER 30° 12° 3 THK
4	SCA035290	1	BLANKING PLATE DOD 200 DIA REAR BOOM
5	SCA035861	1	SPIGOT PLATE DOD 180 DIA REAR BOOM
6	SCA042531	1	180MM WANDER HOSE 7M LG REAR BOOM

Wander boom door mounted air operated 180mm hose - controls - left hand - Magnum Plus

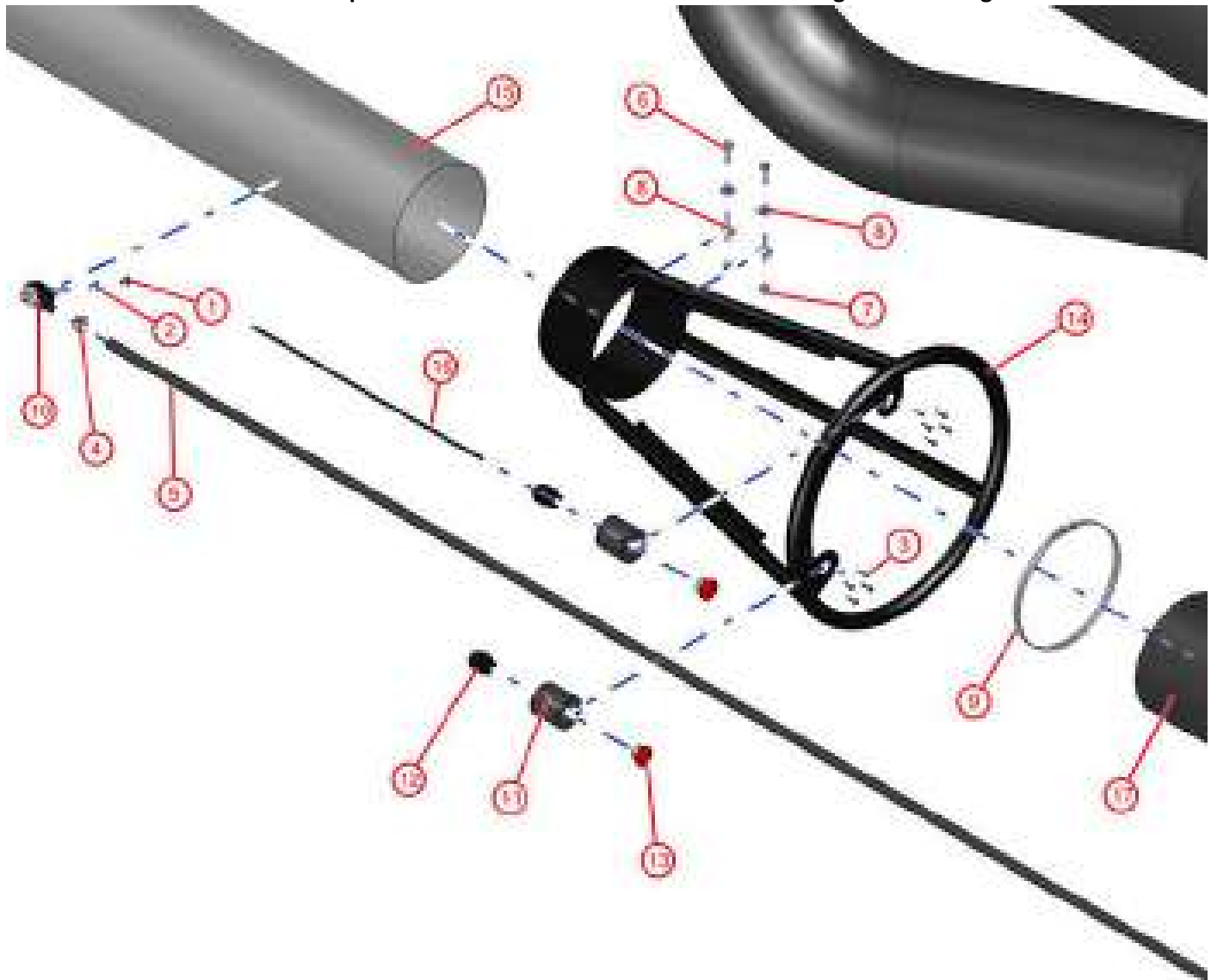


Wander boom door mounted air operated 180mm hose - wander hose and tube - right hand - Magnum Plus



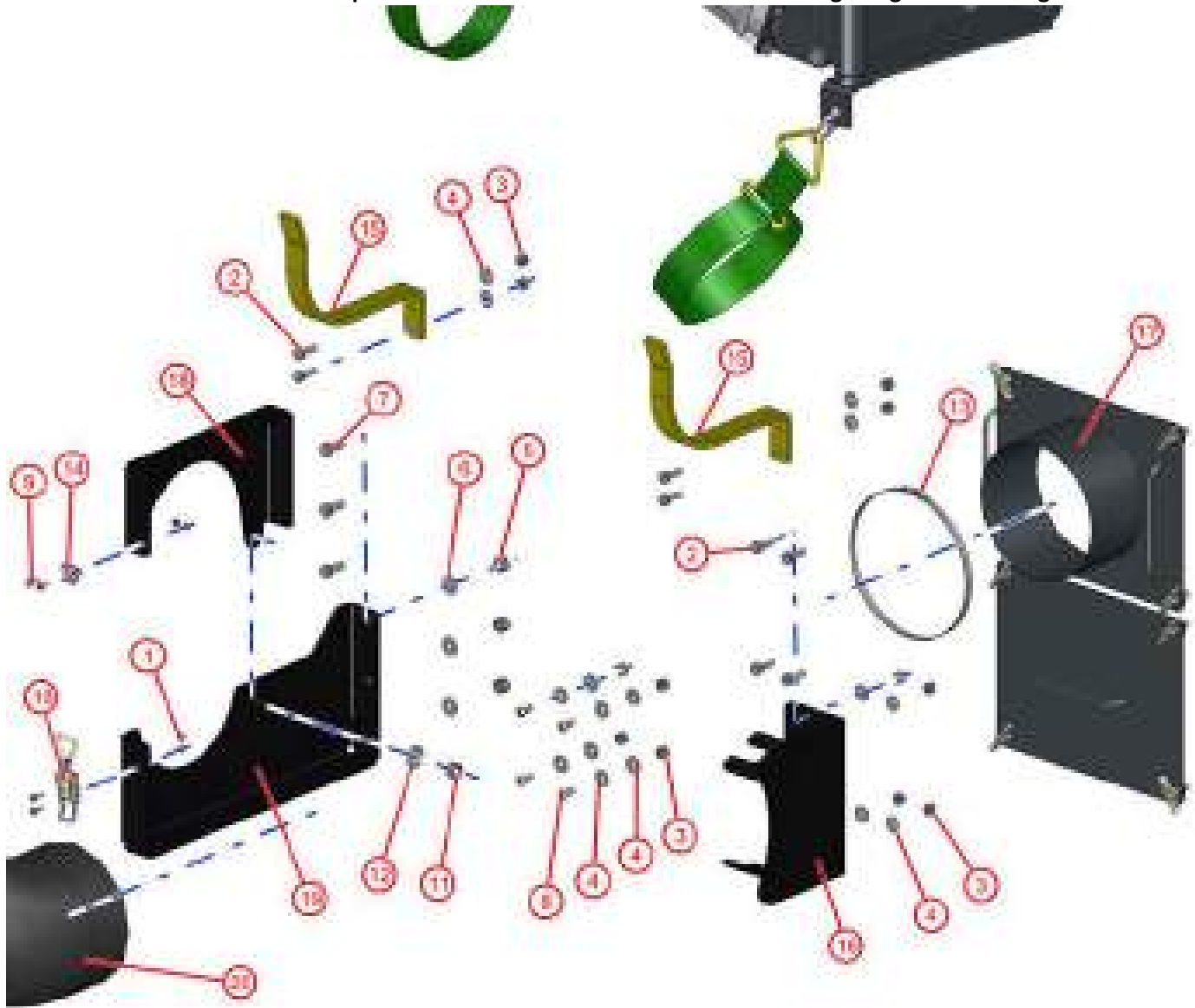
BOM ID	Part No.	Qty	Description
1	SCA005106	8	CABLE TIE BLACK T120L
2	SCA012932	2	JUBILEE CLIP NO 8.50 (184 - 214)
3	SCA035808	1	DDD REAR BOOM HANDLE 180 DIA
4	SCA035859	1	BOOM TUBE DDD TYPE 180 DIA
5	SCA035861	1	SPIGOT PLATE DDD 180 DIA REAR BOOM
6	SCA042531	1	180MM WANDER HOSE 7M LG REAR BOOM

Wander boom door mounted air operated 180mm hose - handle and controls - right hand - Magnum Plus



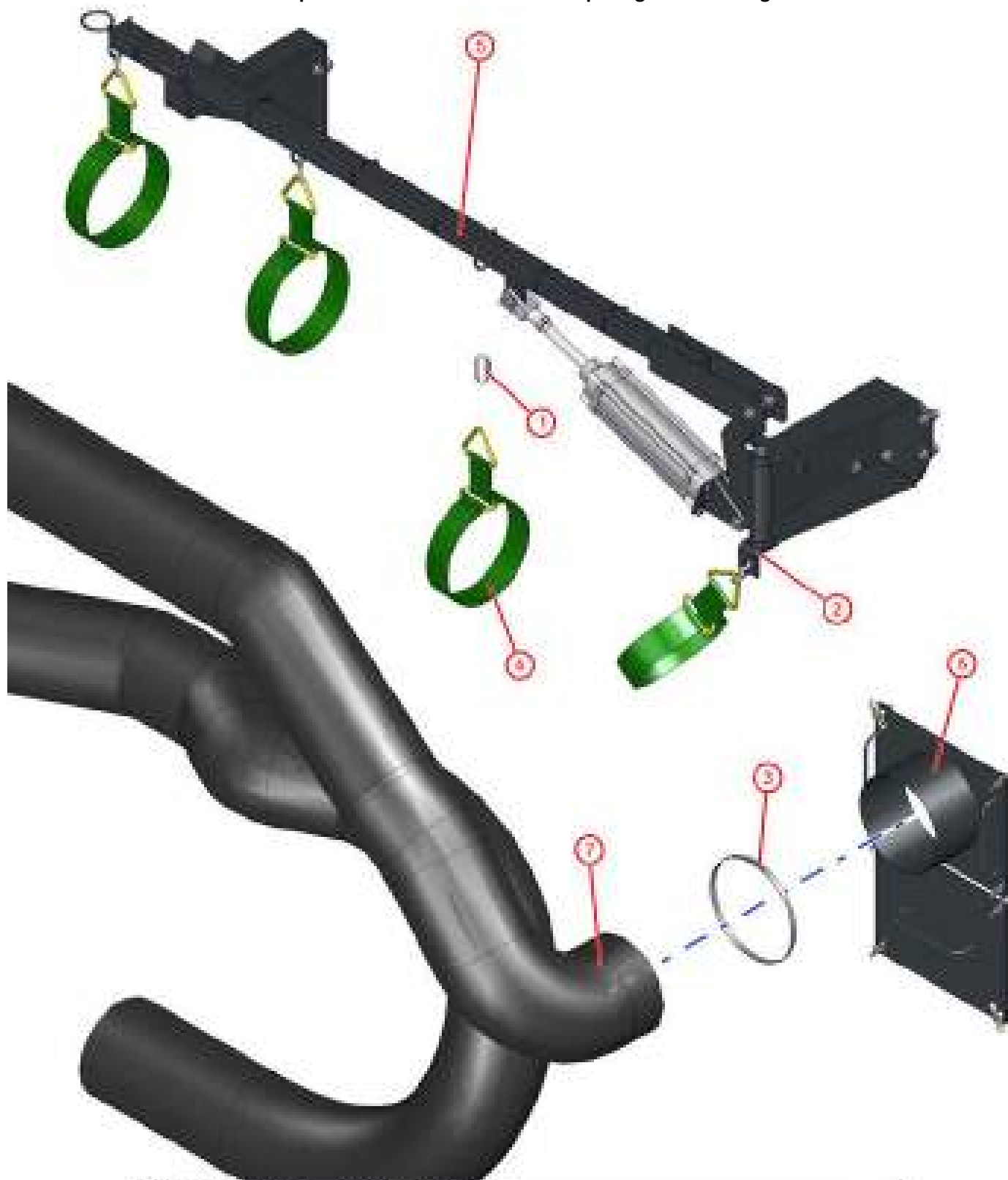
BOB ID	Part No.	Qty	Description
1	SCA000250	1	F 55 HEX SETSCREW M6 X 16
2	SCA000255	1	F 55 SPRING WASHER M6 RECT SECT S/COIL
3	SCA000342	8	F.M4X16 BUT HD SKT SCREW
4	SCA010516	1	JUBILEE CLIP No M00 [11-16]
5	SCA010950	1	HOSE 3/8 BLACK BRAIDED PVC
6	SCA011011	2	F.HEX HT SETSCREW M8 X 25
7	SCA011073	2	F.M8 T NYLOC NUT
8	SCA011092	4	F.PYWASHER M6 FORM C
9	SCA012932	1	JUBILEE CLIP NO 8.50 [184 - 216]
10	SCA013360	1	ASSY SPRAY JET WATER SQUARE BLOCK
11	SCA035294	2	SWITCH PLATE COVER DDD REAR BOOM HANDLE
12	SCA035474	2	EL CABLE GLAND M20
13	SCA035947	2	DDD REAR BOOM SWITCH
14	SCA035958	1	DDD REAR BOOM HANDLE 180 DIA
15	SCA035969	1	BOOM TUBE DDD TYPE 180 DIA
16	SCA036898	1	WIRING LOOM V3 REAR MOUNTED BOOM DDD
17	SCA042531	1	180MM WANDER HOSE 7M LG REAR BOOM

Wander boom door mounted air operated 180mm hose - hose hooks and stowage - right hand - Magnum Plus



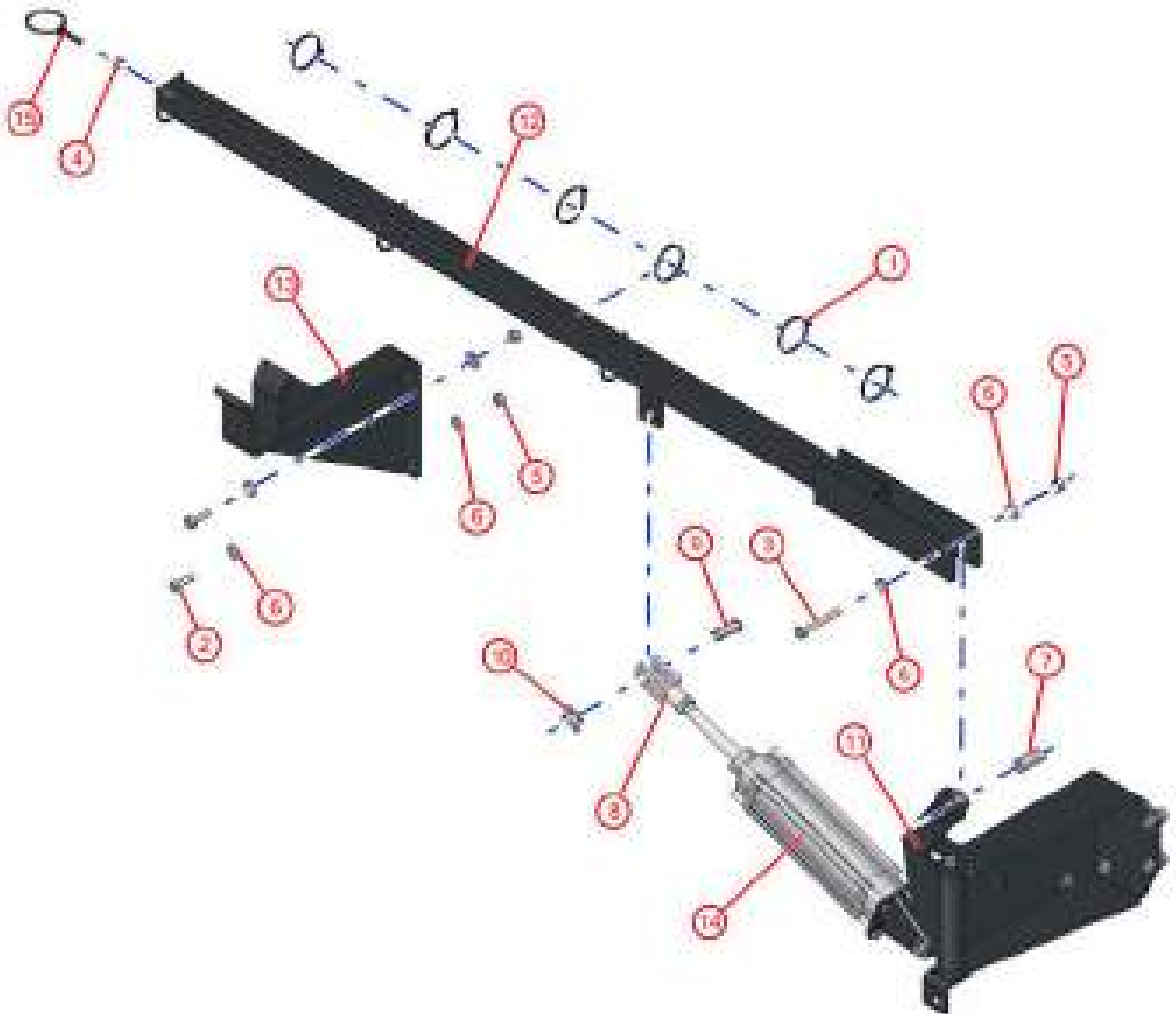
BOM ID	Part No.	Qty	Description
1	SCA000155	4	F.NYLOC NUT M5
2	SCA000257	8	F.SS HEX SETSCREW M8 X 25
3	SCA000263	12	F.SS M8 T NYLOC NUT
4	SCA000264	16	F.SS PWASHER M8 FORM C
5	SCA000269	3	F.SS M10 T NYLOC NUT
6	SCA000270	3	F.SS PWASHER M10 FORM C
7	SCA000280	3	F.SS HEX SETSCREW M10 X 25
8	SCA000329	4	F.SS HEX SETSCREW M8 X 20
9	SCA000389	4	M5X16 CSK POZI ZINC/CLEAR
10	SCA010509	1	F.OJOP FASTENER WITH HINGED TOGGLE
11	SCA011077	1	F.M12 T NYLOC NUT
12	SCA011090	1	F.PWASHER M12 FORM C
13	SCA012932	1	JUBILEE CLIP NO 8.50 (184 - 214)
14	SCA021841	1	TOGGLE CLIP HOOK
15	SCA030808	2	WANDER BOOM EXT HOOK
16	SCA034821	1	BOOM MOUNTING HOOK DDD TYPE
17	SCA035861	1	SPIGOT PLATE DDD 180 DIA REAR BOOM
18	SCA035862	1	BOOM MOUNTING LOCK DDD TYPE 180 DIA
19	SCA035863	1	BOOM MOUNTING CUP DDD TYPE 180 DIA
20	SCA042531	1	180MM WANDER HOSE 7M LG REAR BOOM

Wander boom door mounted air operated 180mm hose - hose straps - right hand - Magnum Plus



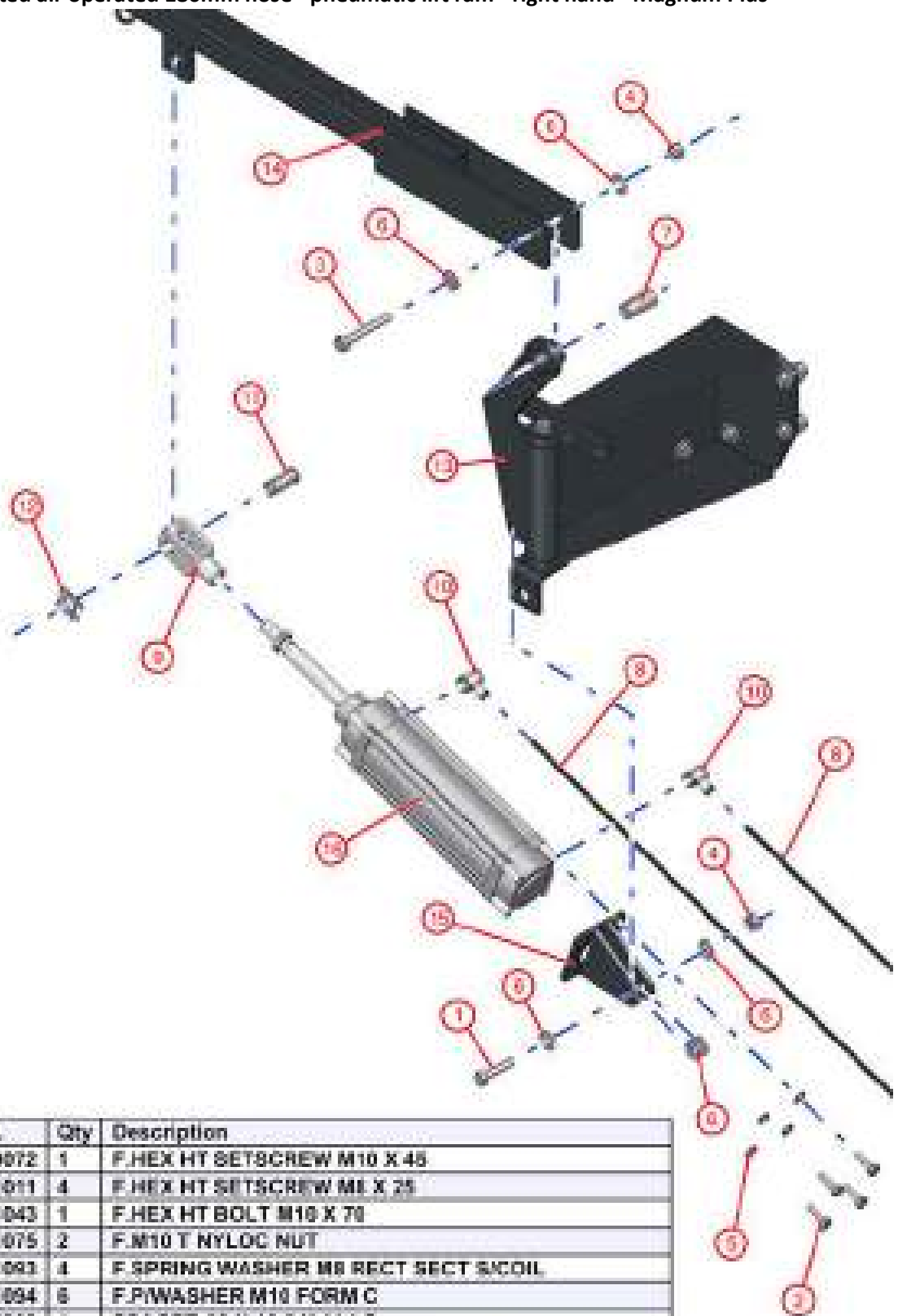
BOM ID	Part No.	Qty	Description
1	SCA010606	4	CARABINER
2	SCA012548	1	ANGLE BRACKET
3	SCA012932	1	JUBILEE CLIP NO 8.50 (184 - 216)
4	SCA025235	4	WANDER HOSE STRAP
5	SCA027926	1	HOSE SUPPORT BOOM AIR OPERATED
6	SCA035861	1	SPIGOT PLATE DDD 180 DIA REAR BOOM
7	SCA042531	1	180MM WANDER HOSE 7M LG REAR BOOM

Wander boom door mounted air operated 180mm hose - boom and stowage - right hand - Magnum Plus



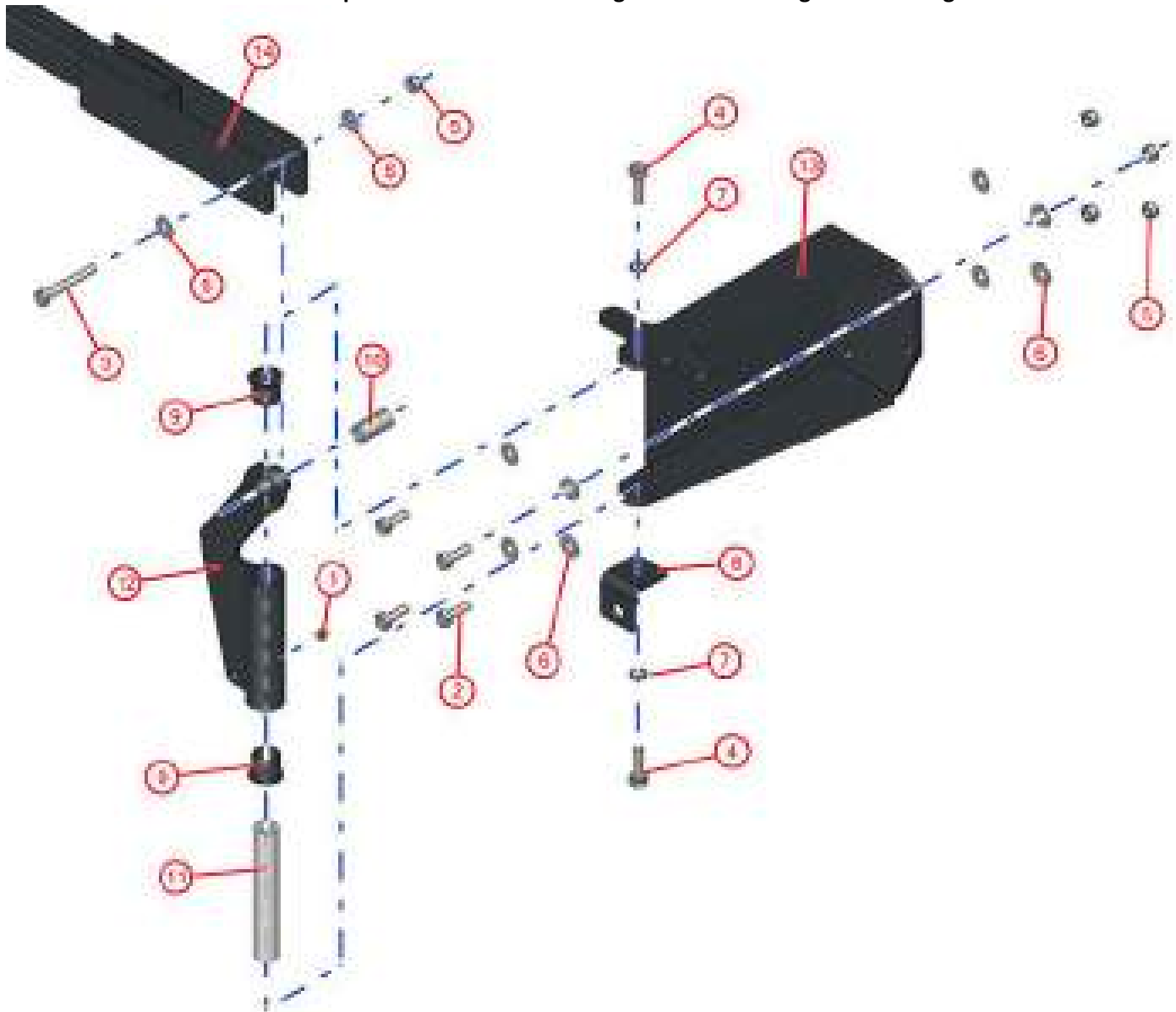
BGM ID	Part No.	Qty	Description
1	SCA005017	6	CABLE TIE BLACK X80L
2	SCA011032	2	F.HEX HT SETSCREW M10 X 30
3	SCA011043	1	F.HEX HT BOLT M10 X 70
4	SCA011072	1	F.HEX FULL NUT M8
5	SCA011075	3	F.M10 T NYLOC NUT
6	SCA011094	6	F.PWASHER M10 FORM C
7	SCA014399	1	SPACER 20 X 10.5 X 41 LG
8	SCA020299	1	CLEVIS PNEUMATIC M16 X 1.5
9	SCA022673	1	CLEVIS PIN (TURNED)
10	SCA022674	1	CLIP RETAINING M16
11	SCA025219	1	WANDER HOSE HINGE
12	SCA027906	1	HOSE SUPPORT BOOM AIR OPERATED
13	SCA027909	1	STOWAGE BRKT AIR OPERATED BOOM
14	SCA028306	1	P.PNEUMATIC CYL 63 X 160
15	SCA030022	1	HOSE RING FRONT BRUSH MINOR

Wander boom door mounted air operated 180mm hose - pneumatic lift ram - right hand - Magnum Plus



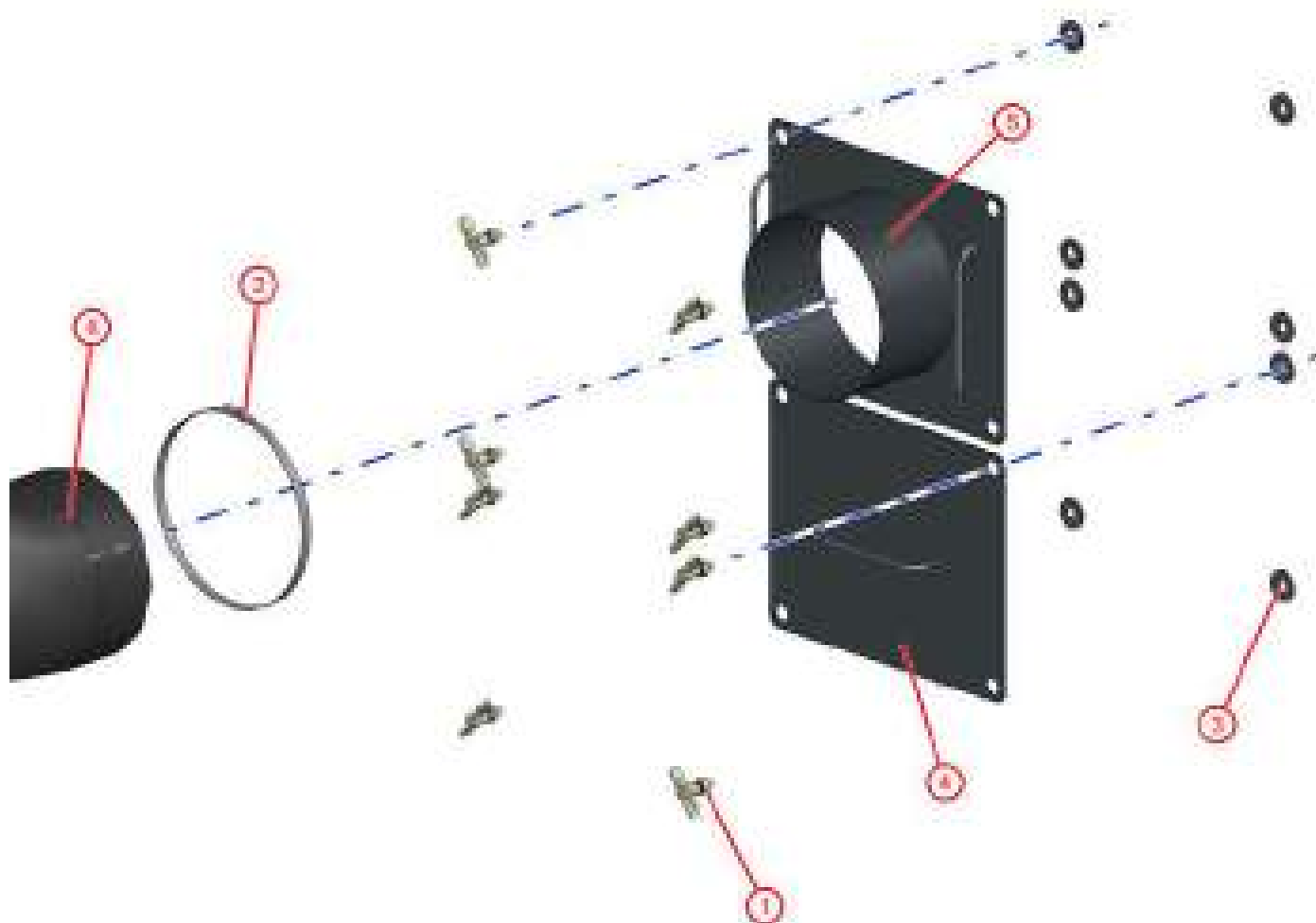
BOM ID	Part No.	Qty	Description
1	SCA010072	1	F.HEX HT SETSCREW M10 X 45
2	SCA011011	4	F.HEX HT SETSCREW M8 X 25
3	SCA011043	1	F.HEX HT BOLT M10 X 70
4	SCA011075	2	F.M10 T NYLOC NUT
5	SCA011093	4	F.SPRING WASHER M8 RECT SECT & COIL
6	SCA011094	6	F.P.WASHER M10 FORM C
7	SCA014399	1	SPACER 20 X 10.5 X 41 LG
8	SCA014572	2	P.3MM OD X 1MM WT BLACK AIR PIPE
9	SCA020299	1	CLEVIS PNEUMATIC M16 X 1.5
10	SCA021158	2	P.PNEUMATIC FLOW REGULATOR
11	SCA022673	1	CLEVIS PIN (TURNED)
12	SCA022674	1	CLIP RETAINING M16
13	SCA025219	1	WANDER HOSE HINGE
14	SCA027926	1	HOSE SUPPORT BOOM AIR OPERATED
15	SCA028305	1	AIR RAM PIVOT BRKT
16	SCA028306	1	P.PNEUMATIC CYL 63 X 160

Wander boom door mounted air operated 180mm hose - hinge and bracket - right hand - Magnum Plus



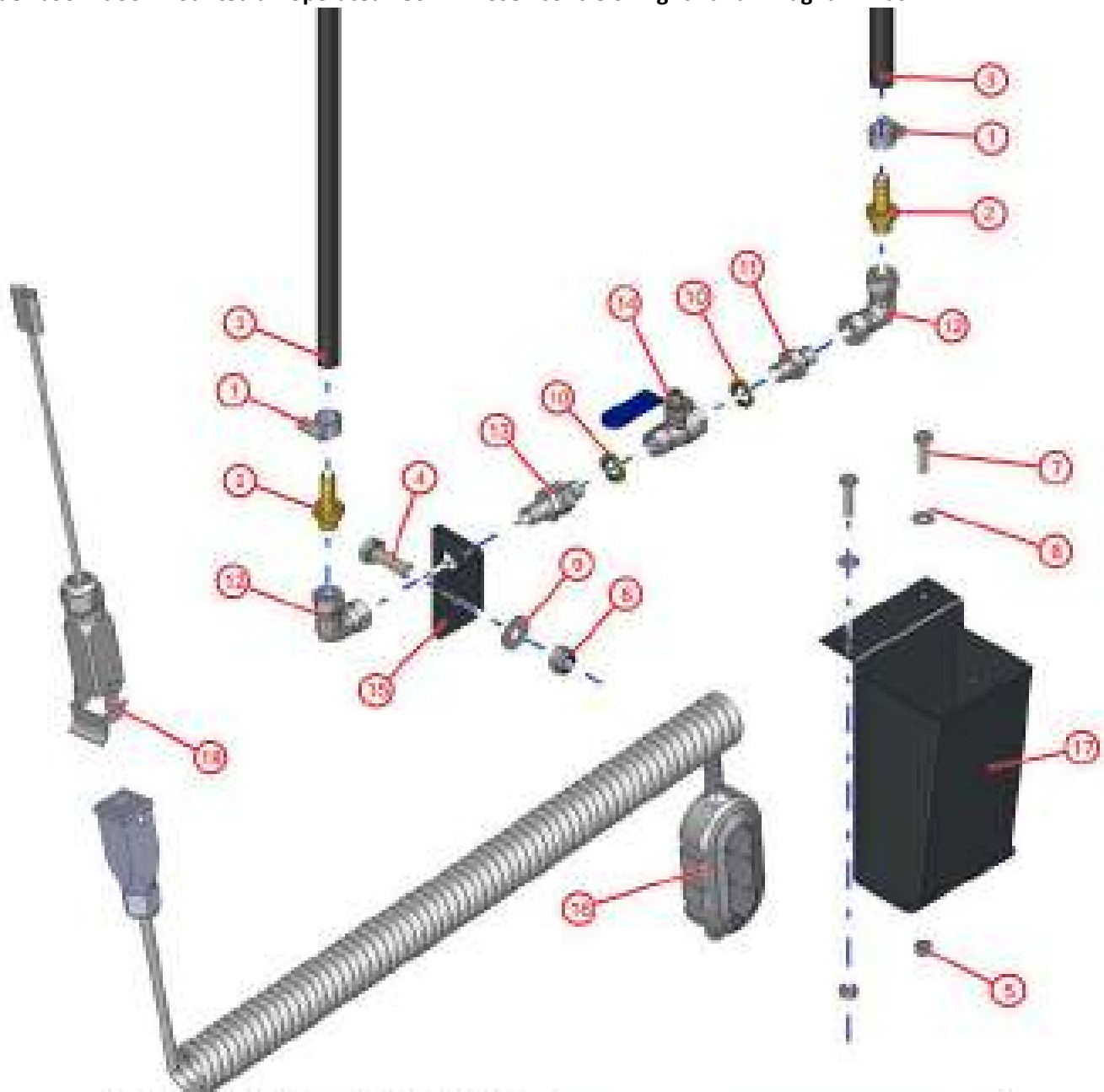
BOM ID	Part No.	Qty	Description
1	SCA010903	1	GREASE NIPPLE 1/8" BSP STR
2	SCA011032	4	F.HEX HT SETSCREW M10 X 30
3	SCA011043	1	F.HEX HT BOLT M10 X 70
4	SCA011053	2	F.HEX HT SETSCREW M12 X 35
5	SCA011075	5	F.M10 T NYLOC NUT
6	SCA011094	10	F.PWASHER M10 FORM C
7	SCA011097	2	F.SPRING WASHER M12 RECT SECT S/COL
8	SCA012548	1	ANGLE BRACKET
9	SCA013662	2	BUSH BRUSH PIVOTS
10	SCA014309	1	SPACER 20 X 10.5 X 41 LG
11	SCA033490	1	HINGE SHAFT ROOM
12	SCA025219	1	WANDER HOSE HINGE
13	SCA025574	1	WANDER HOSE SUPPORT RH MAJOR/MAXIM
14	SCA027926	1	HOSE SUPPORT BOOM AIR OPERATED

Wander boom door mounted air operated 180mm hose - spigot and blanking - right hand - Magnum Plus



BOM ID	Part No.	Qty	Description
1	SCA012353	8	ANTILUCE (SMALL)
2	SCA012932	1	JUBILEE CLIP NO 8.50 (184 - 214)
3	SCA021979	8	RUBBER SEALING WASHER 30 * 12 * 3 THK
4	SCA035290	1	BLANKING PLATE DOD 200 DIA REAR BOOM
5	SCA035981	1	SPIGOT PLATE DOD 180 DIA REAR BOOM
6	SCA042531	1	180MM WANDER HOSE 7M LG REAR BOOM

Wander boom door mounted air operated 180mm hose - controls - right hand - Magnum Plus



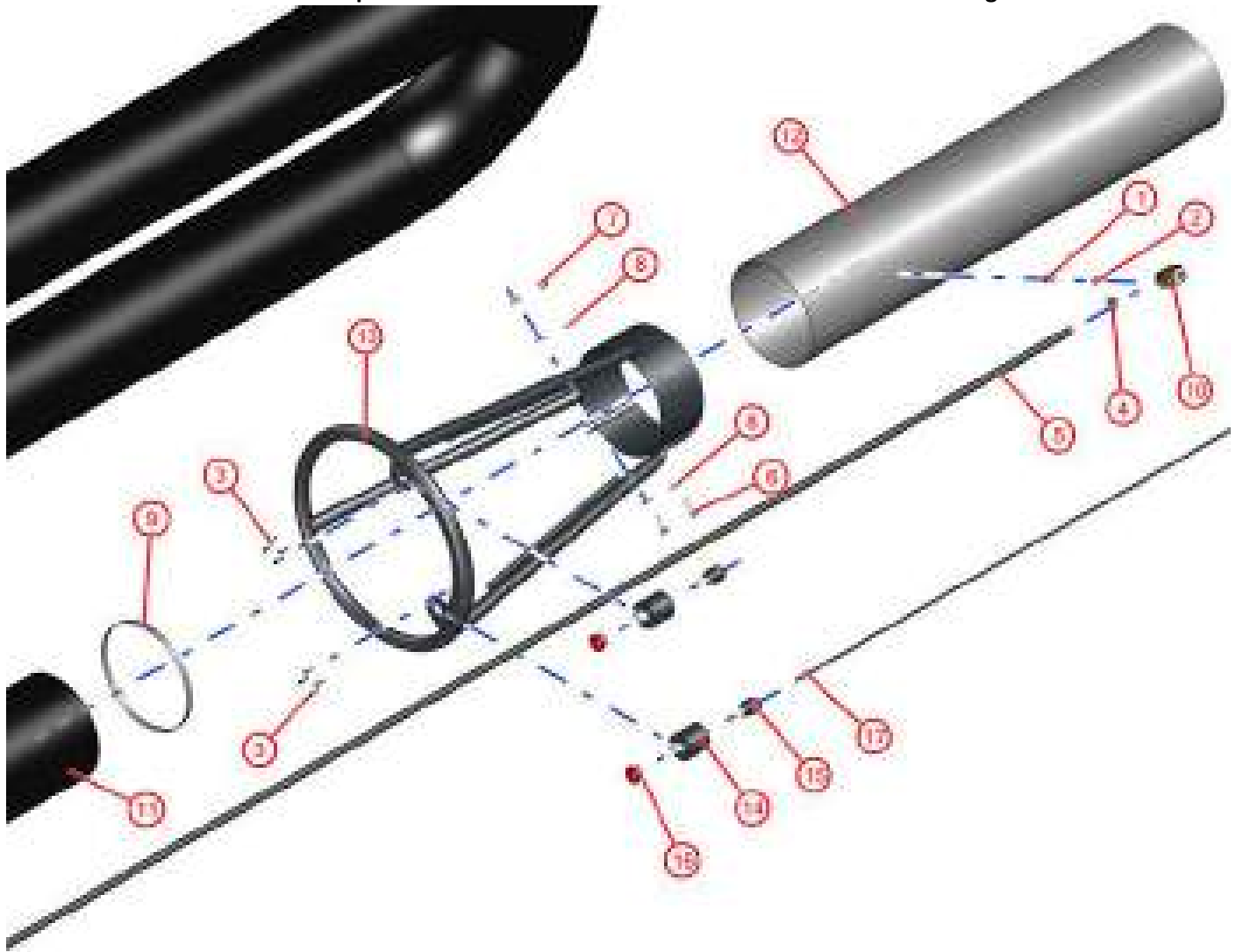
BOM ID	Part No.	Qty	Description
1	SCA010516	2	JUBILEE CLIP No MOO (11-16)
2	SCA010922	2	B.1/4" BSP X 3/8" HOSETAIL
3	SCA010960	2	HOSE 3/8 BLACK BRAIDED PVC
4	SCA011032	1	F HEX HT SETSCREW M10 X 30
5	SCA011071	2	F.M6 T NYLOC NUT
6	SCA011075	1	F.M10 T NYLOC NUT
7	SCA011087	3	F.HEX HT SETSCREW M6 X 25
8	SCA011090	2	F.PWASHER M6 FORM C
9	SCA011094	1	F.PWASHER M10 FORM C
10	SCA011152	2	H.DOWTY SEAL 1/4" BSP
11	SCA011158	1	H.ADAPTOR 1/4" BSP
12	SCA011169	2	H.SWIVEL ELBOW 1/4" BSP F/F
13	SCA011209	1	H.ADAPT BULKHEAD 1/4BSP
14	SCA011743	1	VALVE 1/4 BALL
15	SCA012548	1	ANGLE BRACKET
16	SCA028267	1	3 BUTTON PENDANT WITH SPIRAL CABLE
17	SCA028335	1	PENDANT HOLSTER REAR AIR OPERATED BOOM
18	SCA036919	1	WIRING LOOM V3 AIR OP REAR BOOM

Wander boom door mounted air operated 200mm hose - wander hose and tube - left hand - Magnum Plus



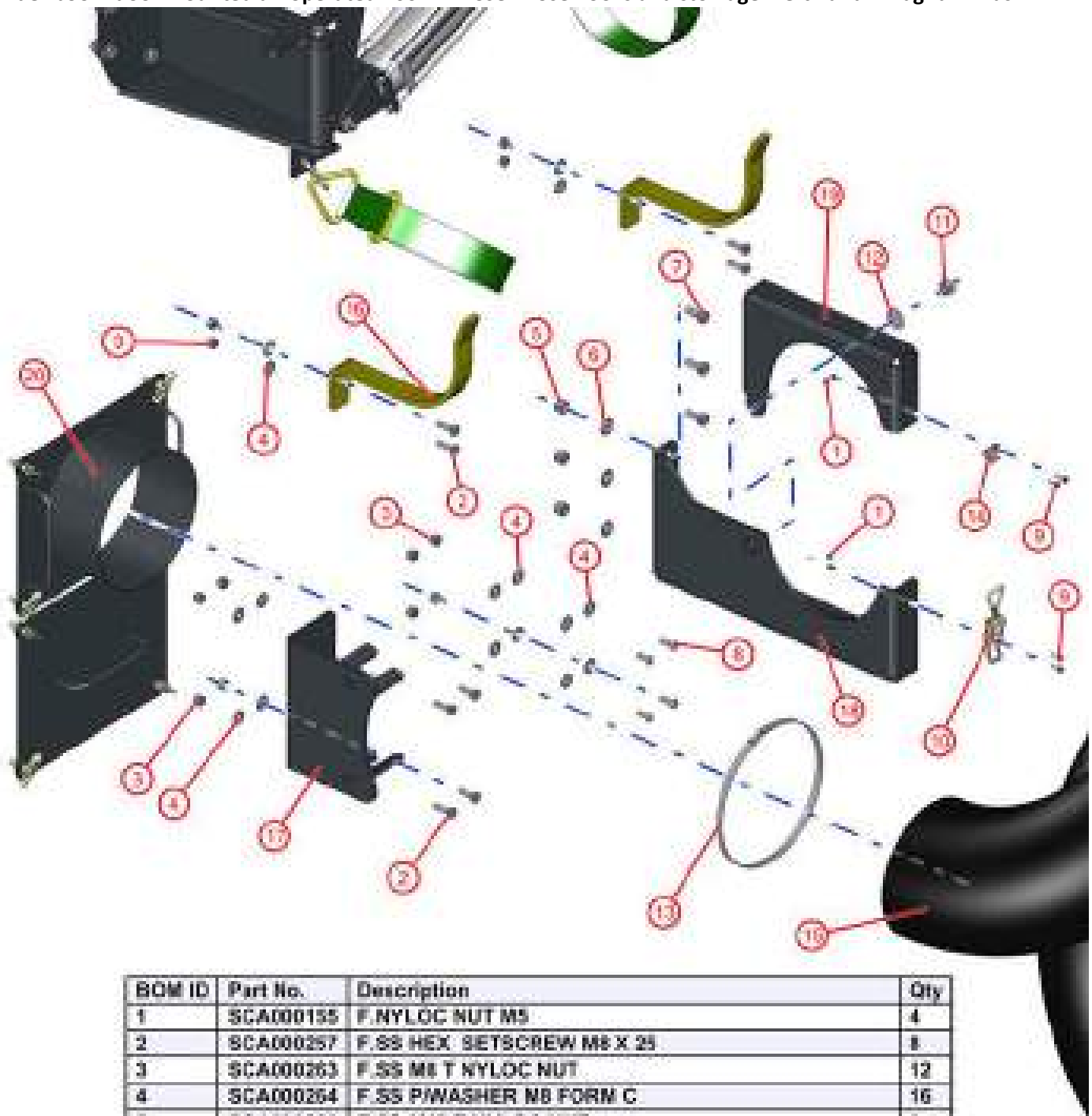
BOM ID	Part No.	Description	Qty
1	SCA005106	CABLE TIE BLACK T120L	8
2	SCA012932	JUBILEE CLIP NO 8.50 [184 - 216]	2
3	SCA026974	HOSE 8" ID REAR NOZZLES (10 METER LENGTH)	1
4	SCA034797	BOOM TUBE DDD TYPE	1
5	SCA035291	BOOM SPIGOT PLATE DDD 200 DIA REAR BOOM	1
6	SCA035293	DDD REAR BOOM HANDLE	1

Wander boom door mounted air operated 200mm hose - handle and controls - left hand - Magnum Plus



BOM ID	Part No.	Description	Qty.
1	SCA000250	F.SS HEX SETSCREW M6 X 16	1
2	SCA000255	F.SS SPRING WASHER M6 RECT SECT SICOIL	1
3	SCA000342	F.MIX16 BUT HD SKT SCREW	8
4	SCA010516	JUBILEE CLIP No M00 [11-16]	1
5	SCA010850	HOSE 3/8 BLACK BRAIDED PVC	1
6	SCA011011	F.HEX HT SETSCREW M6 X 25	2
7	SCA011073	F.M8 T NYLOC NUT	2
8	SCA011092	F.PWASHER M8 FORM C	4
9	SCA012932	JUBILEE CLIP NO 8.50 [184 - 216]	1
10	SCA013360	ASSY SPRAY JET WATER SQUARE BLOCK	1
11	SCA026874	HOSE 8" ID REAR NOZZLES (10 METER LENGTH)	1
12	SCA034797	BOOM TUBE DDD TYPE	1
13	SCA035293	DDD REAR BOOM HANDLE	1
14	SCA035294	SWITCH PLATE COVER DDD REAR BOOM HANDLE	2
15	SCA035474	CABLE GLAND M20 - FOR DDD REAR BOOM	2
16	SCA035947	DDD REAR BOOM SWITCH	2
17	SCA038898	WIRING LOOM V3-REAR MOUNTED BOOM DDD	1

Wander boom door mounted air operated 200mm hose - hose hooks and stowage - left hand - Magnum Plus

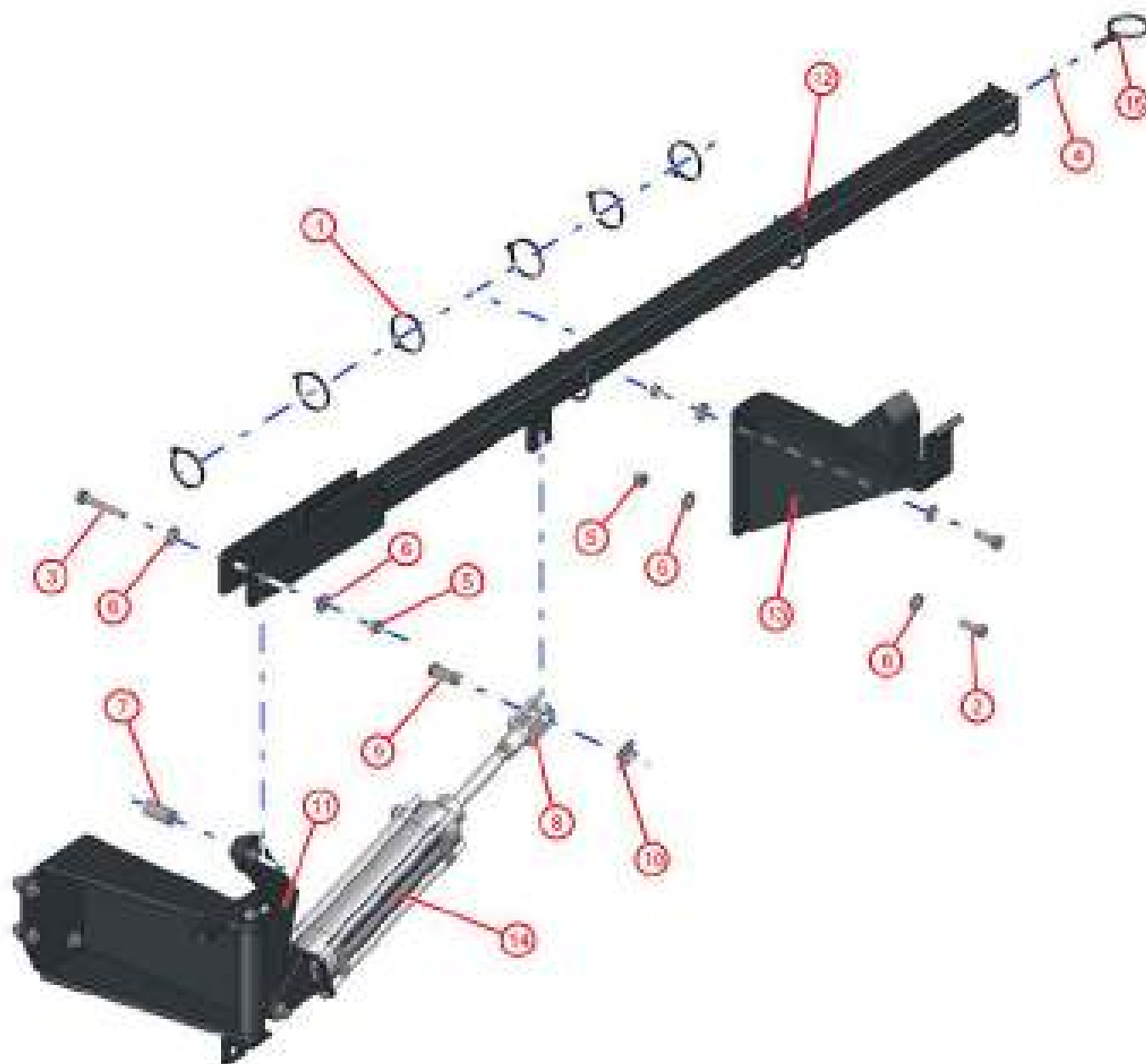


BOM ID	Part No.	Description	Qty
1	SCA000155	F.NYLOC NUT M5	4
2	SCA000257	F.SS HEX SETSCREW M8 X 25	8
3	SCA000263	F.SS M8 T NYLOC NUT	12
4	SCA000264	F.SS PWASHER M8 FORM C	16
5	SCA000269	F.SS M10 T NYLOC NUT	3
6	SCA000270	F.SS PWASHER M10 FORM C	3
7	SCA000280	F.SS HEX SETSCREW M10 X 25	3
8	SCA000329	F.SS HEX SETSCREW M8 X 20	4
9	SCA000389	M5X16 CSK POZI ZINC/CLEAR	4
10	SCA010509	F.OJOP FASTENER WITH HINGED TOGGLE	1
11	SCA011077	F.M12 T NYLOC NUT	1
12	SCA011096	F.PWASHER M12 FORM C	1
13	SCA012932	JUBILEE CLIP NO 8.50 [184 - 216]	1
14	SCA021841	TOGGLE CLIP HOOK	1
15	SCA026974	HOSE 8" ID REAR NOZZLES (10 METER LENGTH	1
16	SCA030808	WANDER BOOM EXT HOOK	2
17	SCA034821	BOOM MOUNTING HOOK DDD TYPE	1
18	SCA034822	BOOM MOUNTING CUP DDD TYPE	1
19	SCA034823	BOOM MOUNTING LOCK DDD TYPE	1
20	SCA035291	BOOM SPIGOT PLATE DDD 200 DIA REAR BOOM	1

This diagram shows an exploded view of a robotic arm assembly. The main components are labeled with red circles and numbers: 1 points to a small blue pin, 2 to a black motor, 3 to a silver ring, 4 to a black arm segment, 5 to a large black elbow joint, 6 to a green ring, and 7 to a black fan-like component. The diagram illustrates the spatial relationship and assembly sequence of these parts.

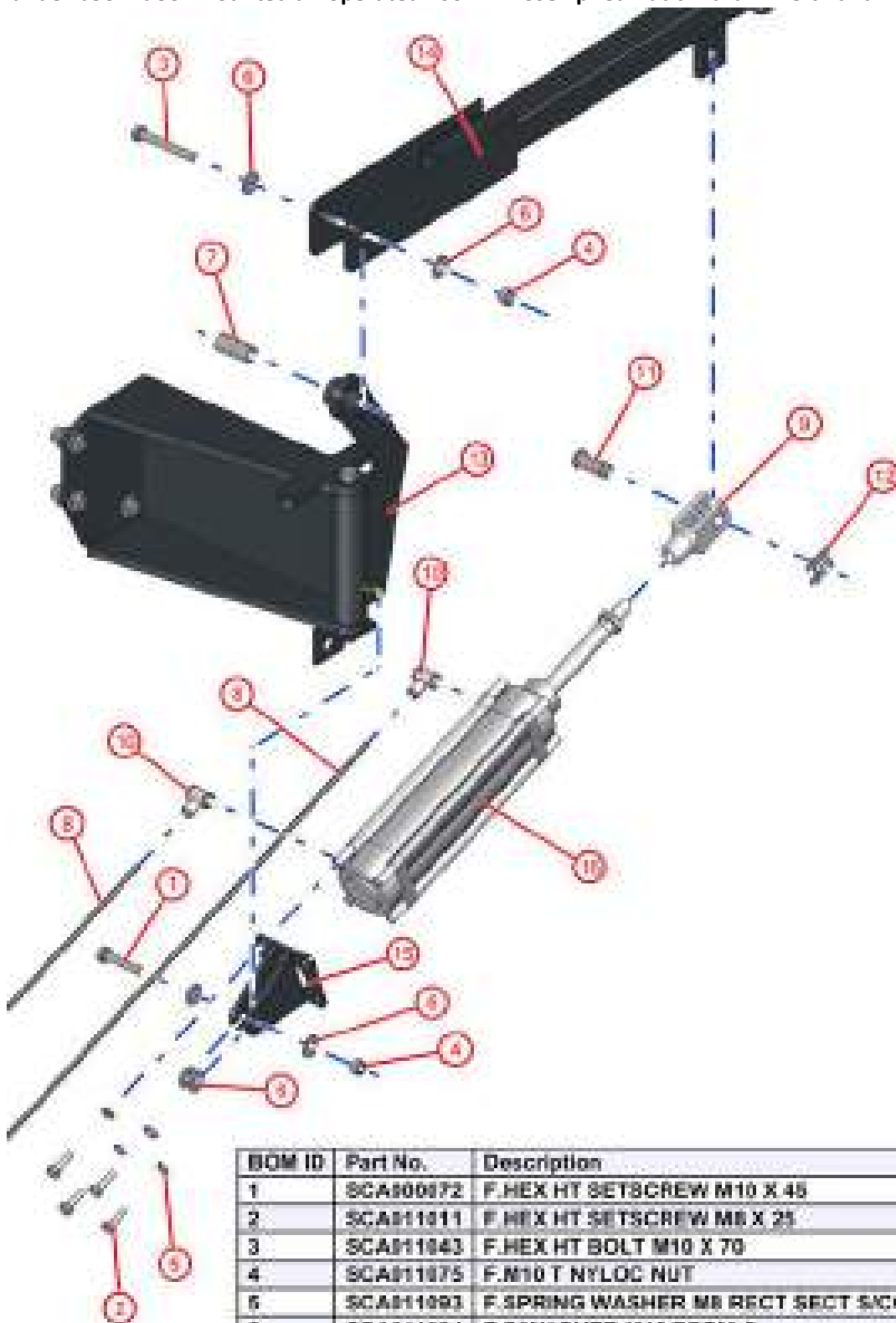
BOM ID	Part No.	Description	Qty
1	SCA010606	CARABINER	4
2	SCA012548	ANGLE BRACKET	1
3	SCA012932	JUBILEE CLIP NO 8.50 [184 - 216]	1
4	SCA025235	WANDER HOSE STRAP	4
5	SCA026974	HOSE 1" ID REAR NOZZLES (10 METER LENGTH)	1
6	SCA027926	HOSE SUPPORT BOOM AIR OPERATED	1
7	SCA035291	BOOM SPIGOT PLATE DDO 260 DIA REAR BOOM	1

Wander boom door mounted air operated 200mm hose - boom and stowage - left hand - Magnum Plus



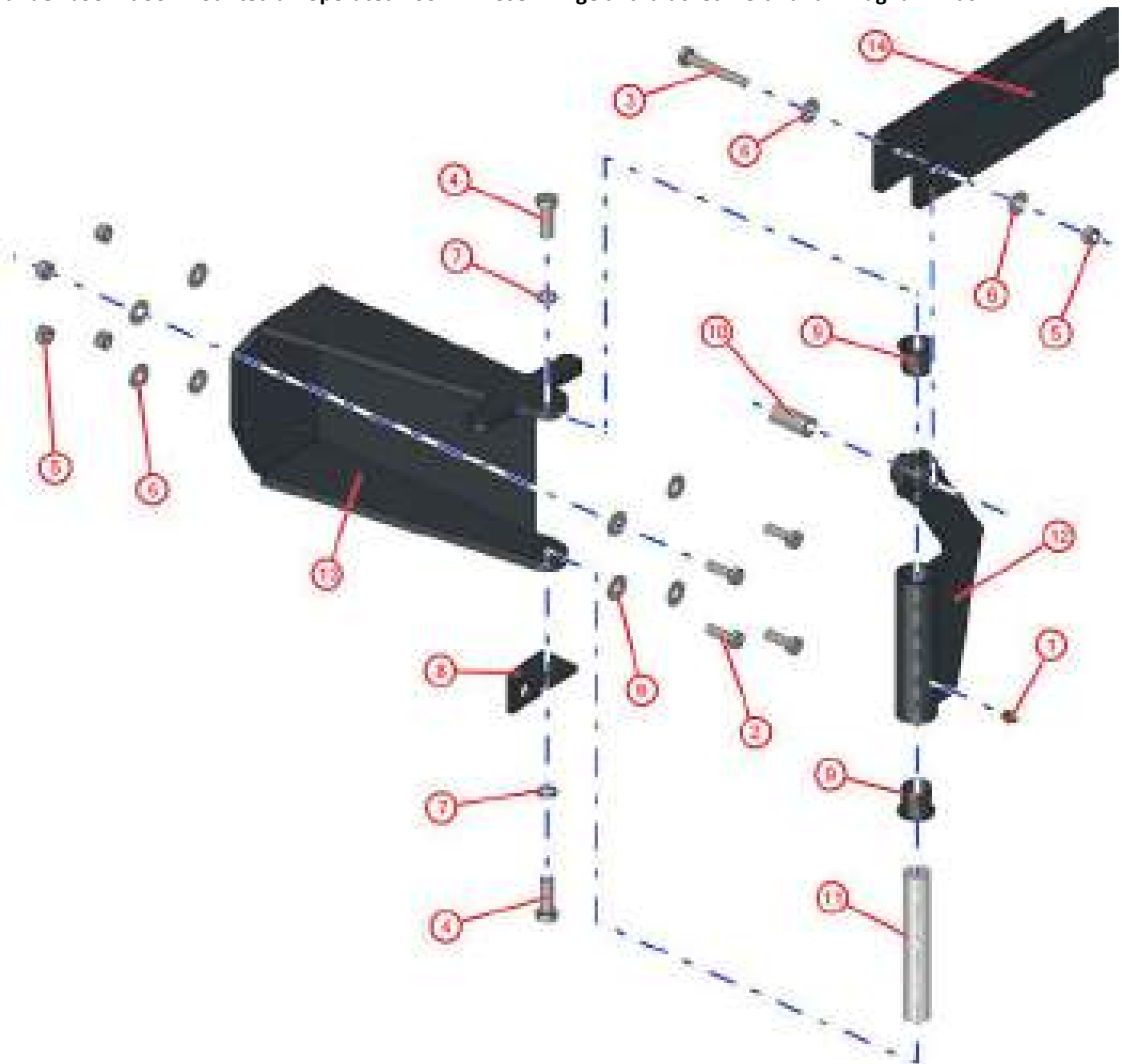
BGM ID	Part No.	Description	Qty
1	SCA005017	CABLE TIE BLACK X30L	6
2	SCA011032	F.HEX HT SETSCREW M10 X 30	2
3	SCA011043	F.HEX HT BOLT M10 X 70	1
4	SCA011072	F.HEX FULL NUT M8	1
5	SCA011075	F.M10 T NYLOC NUT	3
6	SCA011094	F.P.WASHER M16 FORM C	6
7	SCA014399	SPACER 20 X 10.5 X 41 LG	1
8	SCA020299	CLEVIS PNEUMATIC M16 X 1.5	1
9	SCA022673	CLEVIS PIN (TURNED)	1
10	SCA022674	CLIP RETAINING M16	1
11	SCA025219	WANDER HOSE HNGE	1
12	SCA027936	HOSE SUPPORT BOOM AIR OPERATED	1
13	SCA027939	STOWAGE BRKT AIR OPERATED BOOM	1
14	SCA028306	P.PNEUMATIC CYL 63 X 110	1
15	SCA033022	HOSE RING FRONT BRUSH MINOR	1

Wander boom door mounted air operated 200mm hose - pneumatic lift ram - left hand - Magnum Plus



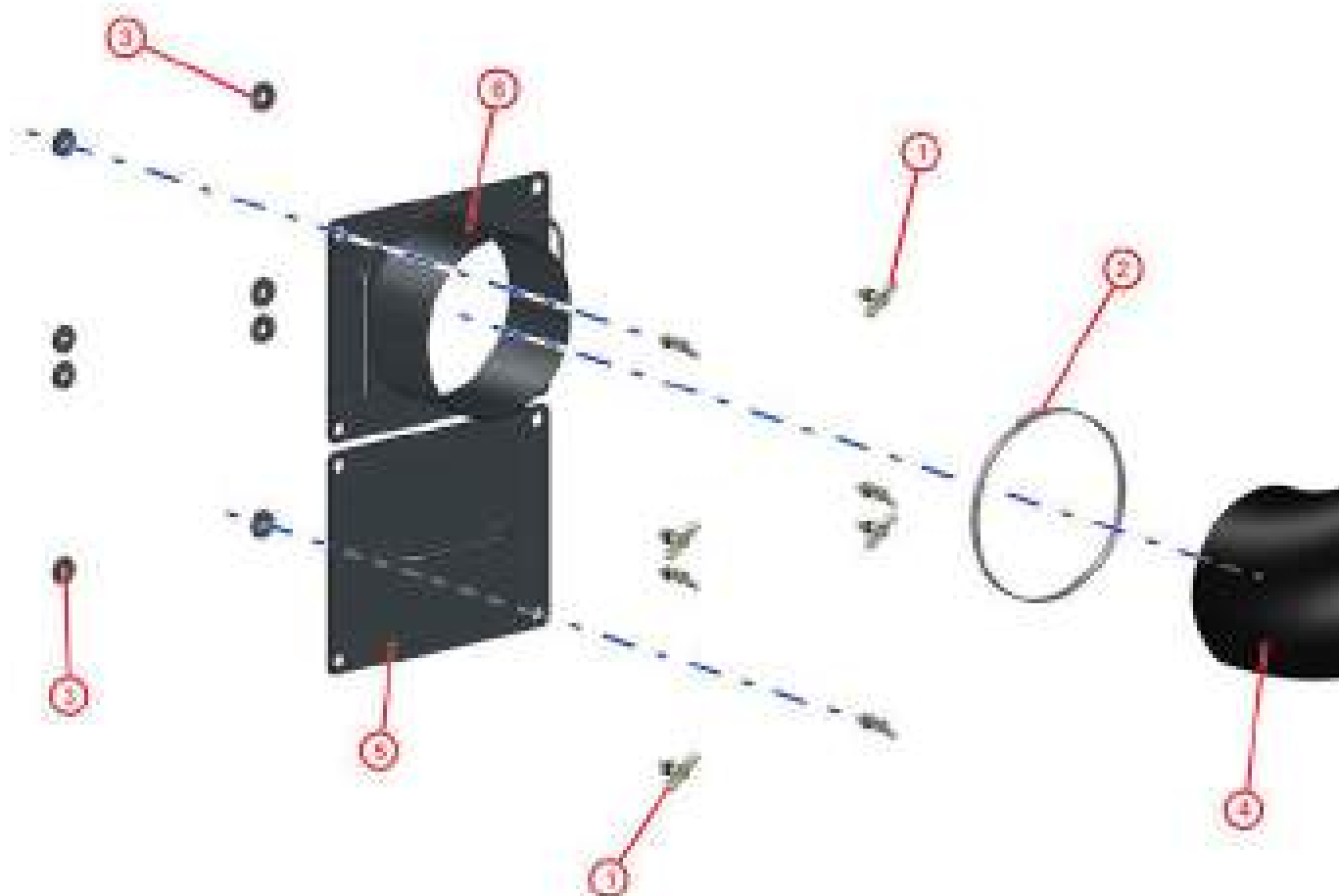
BOM ID	Part No.	Description	Qty
1	SCA00072	F.HEX HT SETSCREW M10 X 45	1
2	SCA01011	F.HEX HT SETSCREW M8 X 25	4
3	SCA01043	F.HEX HT BOLT M10 X 70	1
4	SCA01075	F.M10 T NYLOC NUT	2
5	SCA01093	F.SPRING WASHER M8 RECT SECT S/COIL	4
6	SCA01094	F.PIWASHER M10 FORM C	6
7	SCA01439	SPACER 30 X 10.5 X 41 LG	1
8	SCA01457	P.6MM OD X 1MM WT BLACK AIR PIPE	2
9	SCA02029	CLEVIS PNEUMATIC M16 X 1.5	1
10	SCA02115	P.PNEUMATIC FLOW REGULATOR	2
11	SCA02267	CLEVIS PIN (TURNED)	1
12	SCA02267	CLIP RETAINING M16	1
13	SCA02521	WANDER HOSE HNGE	1
14	SCA02792	HOSE SUPPORT BOOM AIR OPERATED	1
15	SCA02830	AIR RAM PIVOT BRKT	1
16	SCA02830	P.PNEUMATIC CYL 63 X 160	1

Wander boom door mounted air operated 200mm hose - hinge and bracket - left hand - Magnum Plus



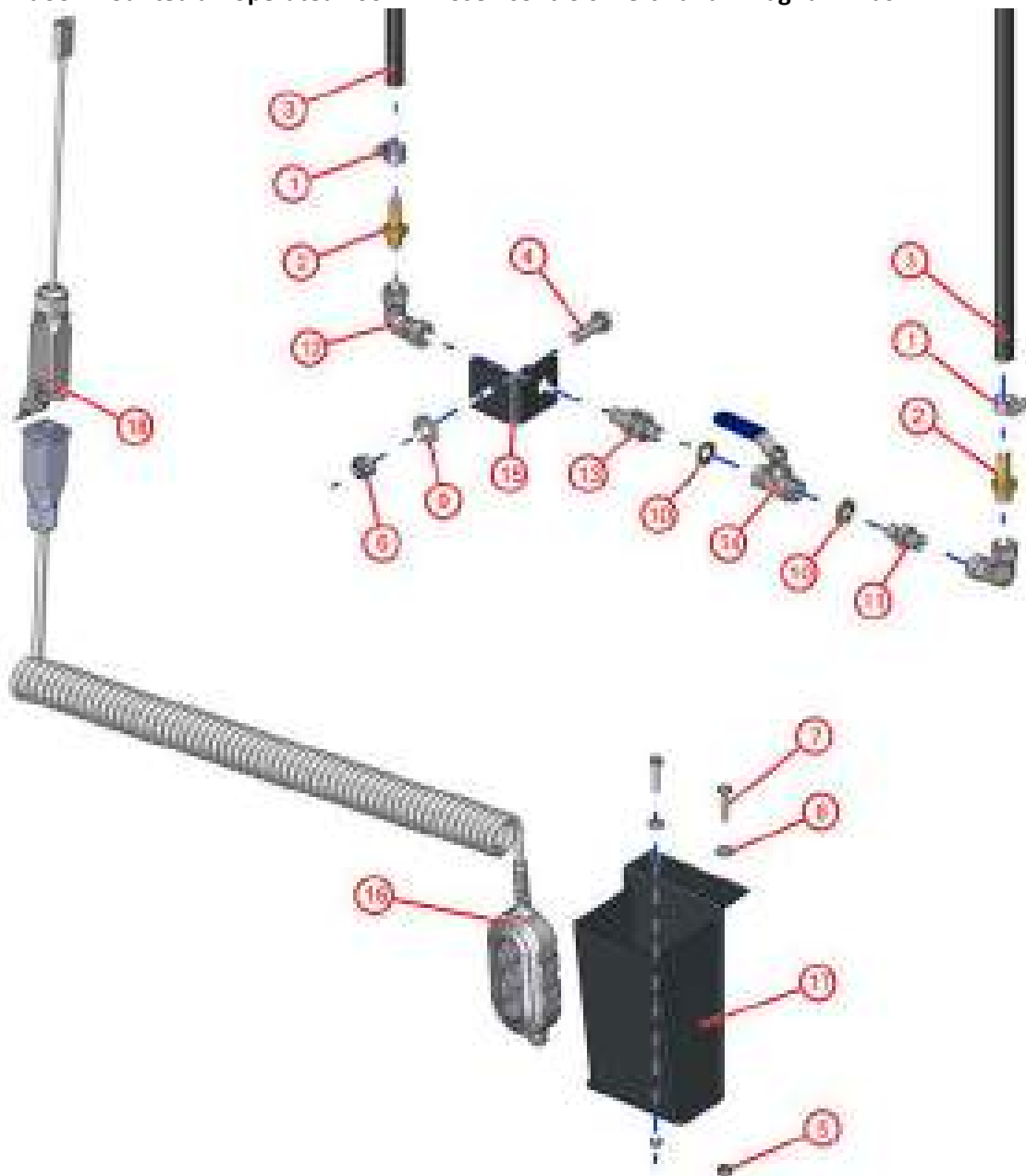
BOM ID	Part No.	Description	Qty
1	SCA010803	GREASE NIPPLE 1/8" BSP STR	1
2	SCA011032	F.HEX HT SETSCREW M10 X 30	4
3	SCA011043	F.HEX HT BOLT M10 X 70	1
4	SCA011053	F.HEX HT SETSCREW M13 X 16	2
5	SCA011075	F.M10 T NYLOC NUT	5
6	SCA011094	F.P.WASHER M10 FORM C	10
7	SCA011097	F.SPRING WASHER M12 RECT SECT S/COIL	2
8	SCA012548	ANGLE BRACKET	1
9	SCA013662	BUSH BRUSH PIVOTS	2
10	SCA014399	SPACER 20 X 10.5 X 41 LG	1
11	SCA023490	HINGE SHAFT BOOM	1
12	SCA025219	WANDER HOSE HNGE	1
13	SCA025220	WANDER HOSE SUPPORT LH	1
14	SCA027926	HOSE SUPPORT BOOM AIR OPERATED	1

Wander boom door mounted air operated 200mm hose - spigot and blanking - left hand - Magnum Plus



BOM ID	Part No.	Description	Qty
1	SCA012253	ANTILUCE (SMALL)	8
2	SCA012932	JUBILEE CLIP NO 8.50 [184 - 216]	1
3	SCA021979	RUBBER SEALING WASHER 30 " 12 " 3 THK	8
4	SCA026974	HOSE 8" ID REAR NOZZLES (10 METER LENGTH	1
5	SCA035299	BLANKING PLATE DDD 200 DIA REAR BOOM	1
6	SCA035291	BOOM SPIGOT PLATE DDD 200 DIA REAR BOOM	1

Wander boom door mounted air operated 200mm hose - controls - left hand - Magnum Plus



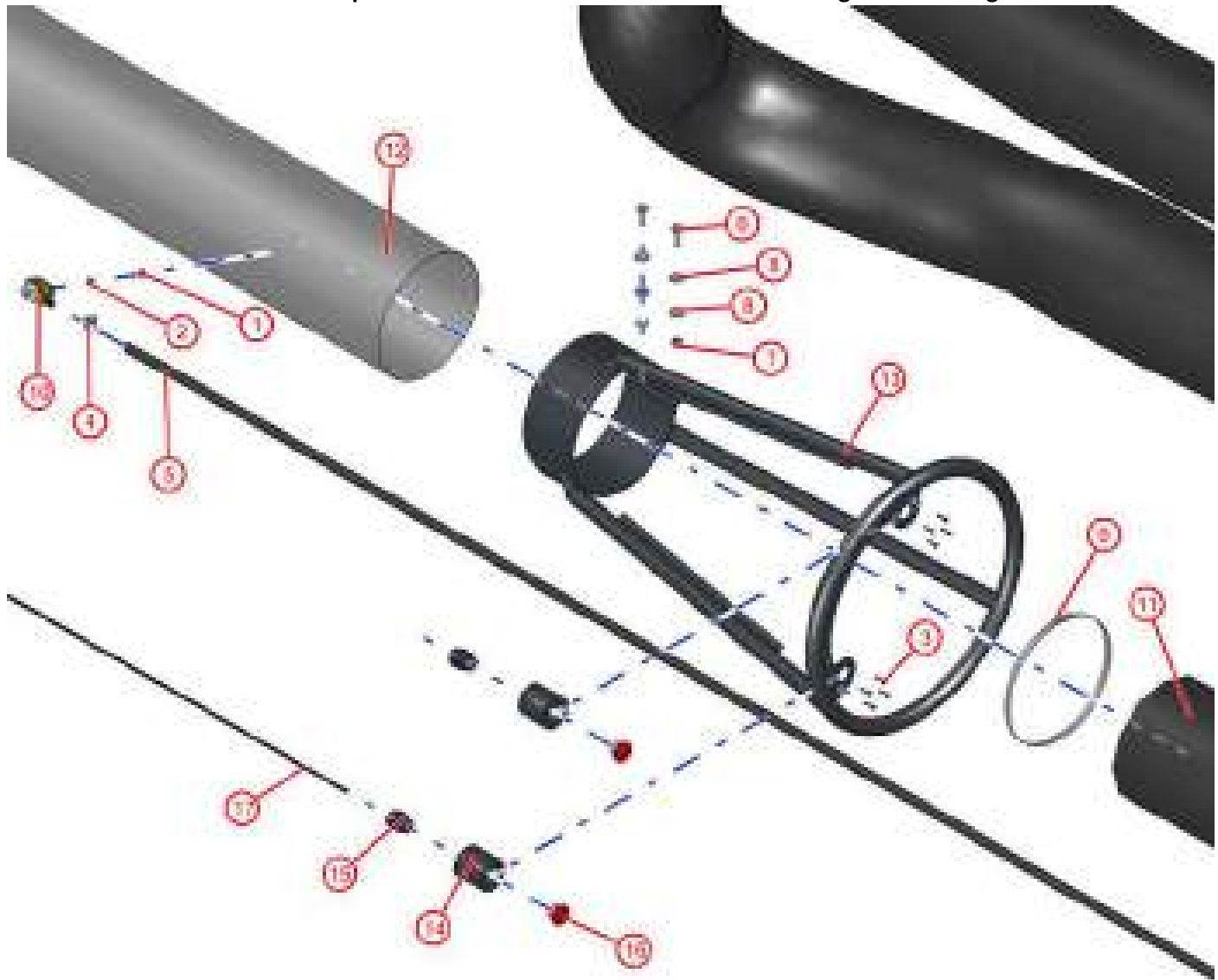
BOM ID	Part No.	Qty	Description
1	SCA010516	2	JUBILEE CLIP No MOO (11-16)
2	SCA010922	2	B. 1/4" BSP X 3/8" HOSETAIL
3	SCA010950	2	HOSE 3/8 BLACK BRAIDED PVC
4	SCA011032	1	F. HEX HT SETSCREW M10 X 30
5	SCA011071	2	F. M6 T NYLOC NUT
6	SCA011075	1	F. M10 T NYLOC NUT
7	SCA011087	2	F. HEX HT SETSCREW M6 X 25
8	SCA011090	2	F. P/WASHER M6 FORM C
9	SCA011094	1	F. P/WASHER M10 FORM C
10	SCA011152	2	H. DOWTY SEAL 1/4" BSP
11	SCA011153	1	H. ADAPTOR 1/4" BSP
12	SCA011169	2	H. SWIVEL ELBOW 1/4" BSP R/F
13	SCA011269	1	H. ADAPT BULKHEAD 1/4 BSP
14	SCA011743	1	VALVE 1/4 BALL
15	SCA012543	1	ANGLE BRACKET
16	SCA021267	1	3 BUTTON PENDANT WITH SPIRAL CABLE
17	SCA021353	1	PENDANT HOLSTER REAR AIR OPERATED BOOM
18	SCA036919	1	WIRING LOOM V3 AIR OP REAR BOOM

Wander boom door mounted air operated 200mm hose - wander hose and tube - right hand - Magnum Plus



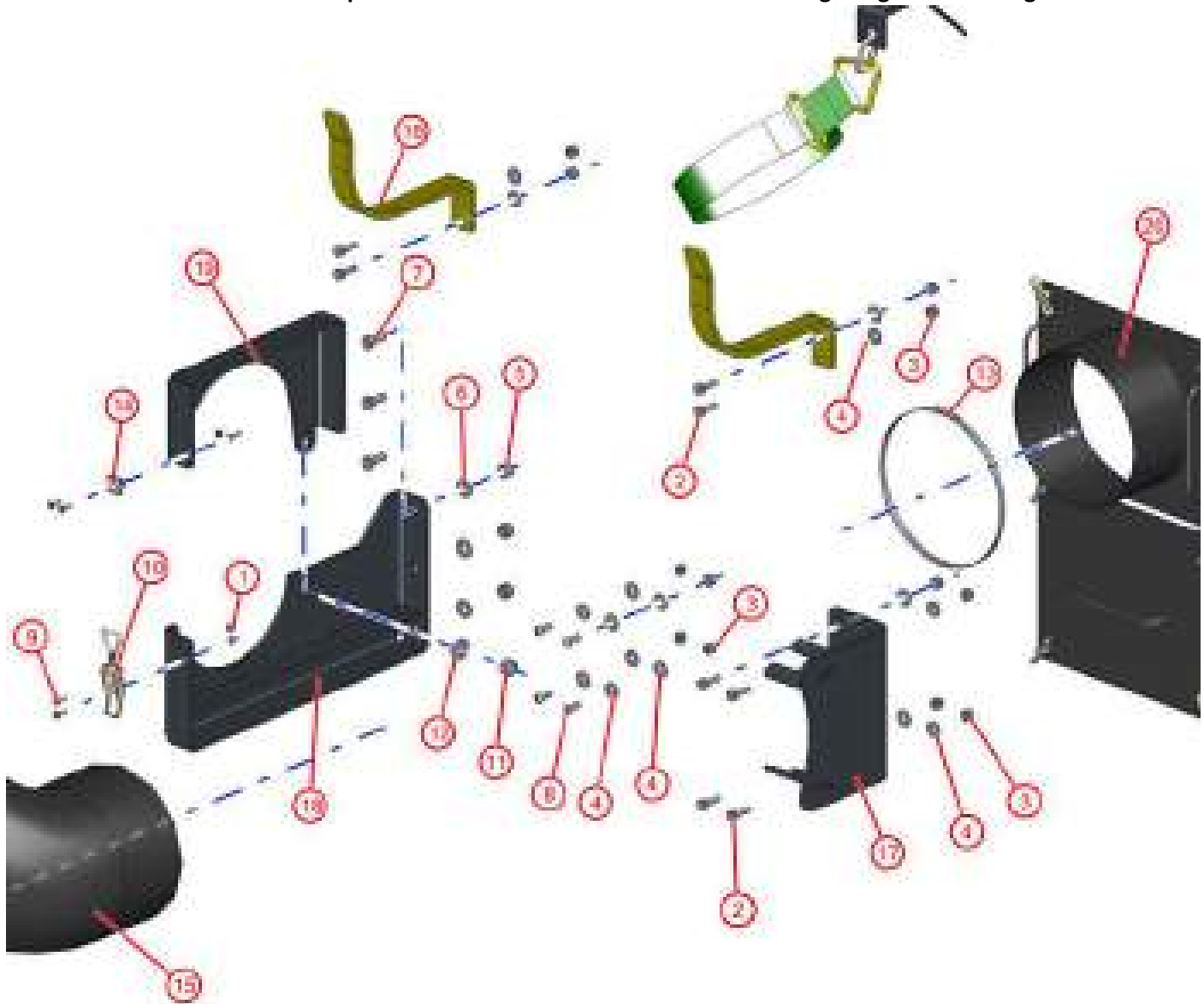
BOM ID	Part No.	Qty	Description
1	SCA005106	8	CABLE TIE BLACK T120L
2	SCA012932	2	JUBILEE CLIP NO 8.50 (184 - 218)
3	SCA026974	1	HOSE 6" ID REAR NOZZLES (10 METER LENGTH
4	SCA034797	1	BOOM TUBE DDD TYPE
5	SCA035291	1	BOOM SPIGOT PLATE DDD 200 DIA REAR BOOM
6	SCA035293	1	DDD REAR BOOM HANDLE

Wander boom door mounted air operated 200mm hose - handle and controls - right hand - Magnum Plus



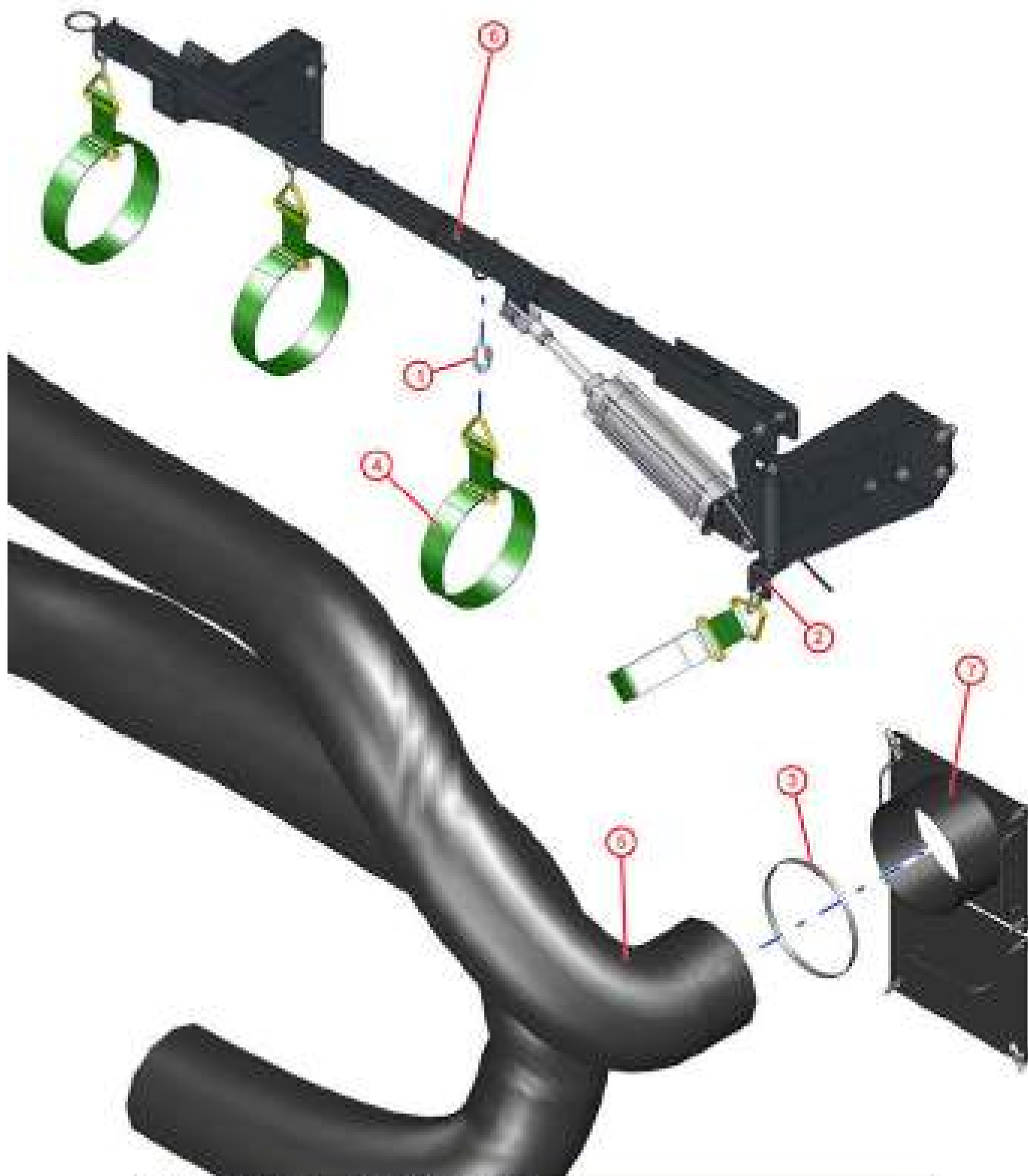
BOM ID	Part No.	Qty	Description
1	SCA000250	1	F.SS HEX SETSCREW M5 X 16
2	SCA000255	1	F.SS SPRING WASHER M6 RECT SECT S/COIL
3	SCA000342	8	F.MMX16 BUT HD SKT SCREW
4	SCA010516	1	JUBILEE CLIP No M00 [11-16]
5	SCA010850	1	HOSE 3/8 BLACK BRAIDED PVC
6	SCA011011	2	F.HEX HT SETSCREW M3 X 25
7	SCA011073	2	F.M8 T NYLOC NUT
8	SCA011092	4	F.PYWASHER M6 FORM C
9	SCA012932	1	JUBILEE CLIP NO 8.50 [184 - 216]
10	SCA013360	1	ASSY SPRAY JET WATER SQUARE BLOCK
11	SCA026874	1	HOSE 8" ID REAR NOZZLES (10 METER LENGTH)
12	SCA034797	1	BOOM TUBE DDD TYPE
13	SCA035293	1	DDD REAR BOOM HANDLE
14	SCA035294	2	SWITCH PLATE COVER DDD REAR BOOM HANDLE
15	SCA035474	2	CABLE GLAND N20 - FOR DDD REAR BOOM
16	SCA035947	2	DDD REAR BOOM SWITCH
17	SCA036898	1	WIRING LOOM V3 REAR MOUNTED BOOM DDD

Wander boom door mounted air operated 200mm hose - hose hooks and stowage - right hand - Magnum Plus



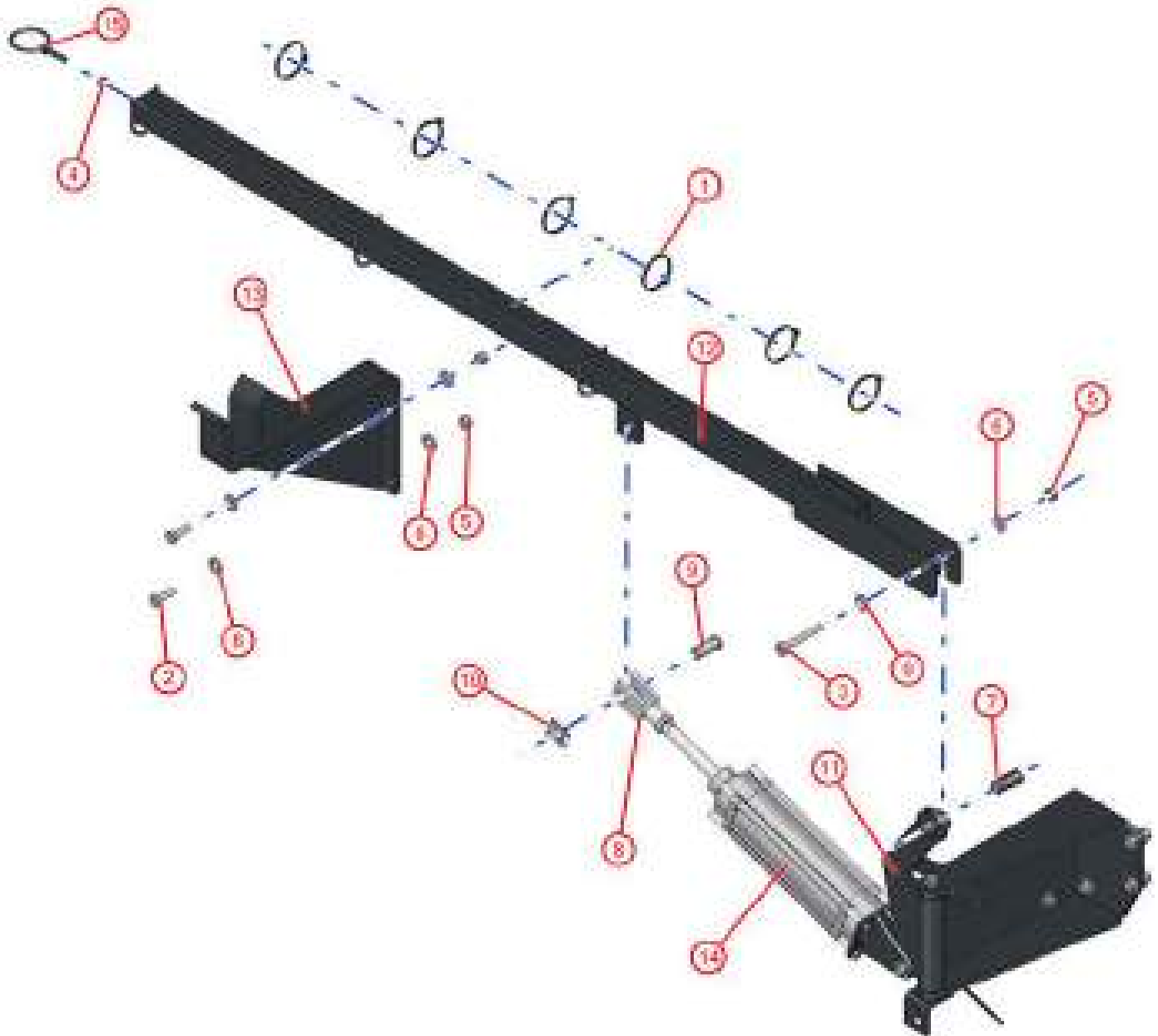
BOM ID	Part No.	Qty	Description
1	SCA000155	4	F.NYLOC NUT M5
2	SCA000257	8	F.SS HEX SETSCREW M8 X 25
3	SCA000263	12	F.SS M8 T NYLOC NUT
4	SCA000264	16	F.SS PWASHER M8 FORM C
5	SCA000269	3	F.SS M10 T NYLOC NUT
6	SCA000270	3	F.SS PWASHER M10 FORM C
7	SCA000280	2	F.SS HEX SETSCREW M10 X 25
8	SCA000329	4	F.SS HEX SETSCREW M8 X 20
9	SCA000389	4	M5X16 CSK POZI ZINC/CLEAR
10	SCA010509	1	F.OJOP FASTENER WITH HINGED TOGGLE
11	SCA011077	1	F.M12 T NYLOC NUT
12	SCA011096	1	F.PWASHER M12 FORM C
13	SCA012932	1	JUBILEE CLIP NO 8.50 (184 - 214)
14	SCA021841	1	TOGGLE CLIP HOOK
15	SCA026974	1	HOSE 8" ID REAR NOZZLES (10 METER LENGTH
16	SCA030808	2	WANDER BOOM EXT HOOK
17	SCA034821	1	BOOM MOUNTING HOOK DDD TYPE
18	SCA034822	1	BOOM MOUNTING CUP DDD TYPE
19	SCA034823	1	BOOM MOUNTING LOCK DDD TYPE
20	SCA035291	1	BOOM SPIGOT PLATE DDD 200 DIA REAR BOOM

Wander boom door mounted air operated 200mm hose - hose straps - right hand - Magnum Plus



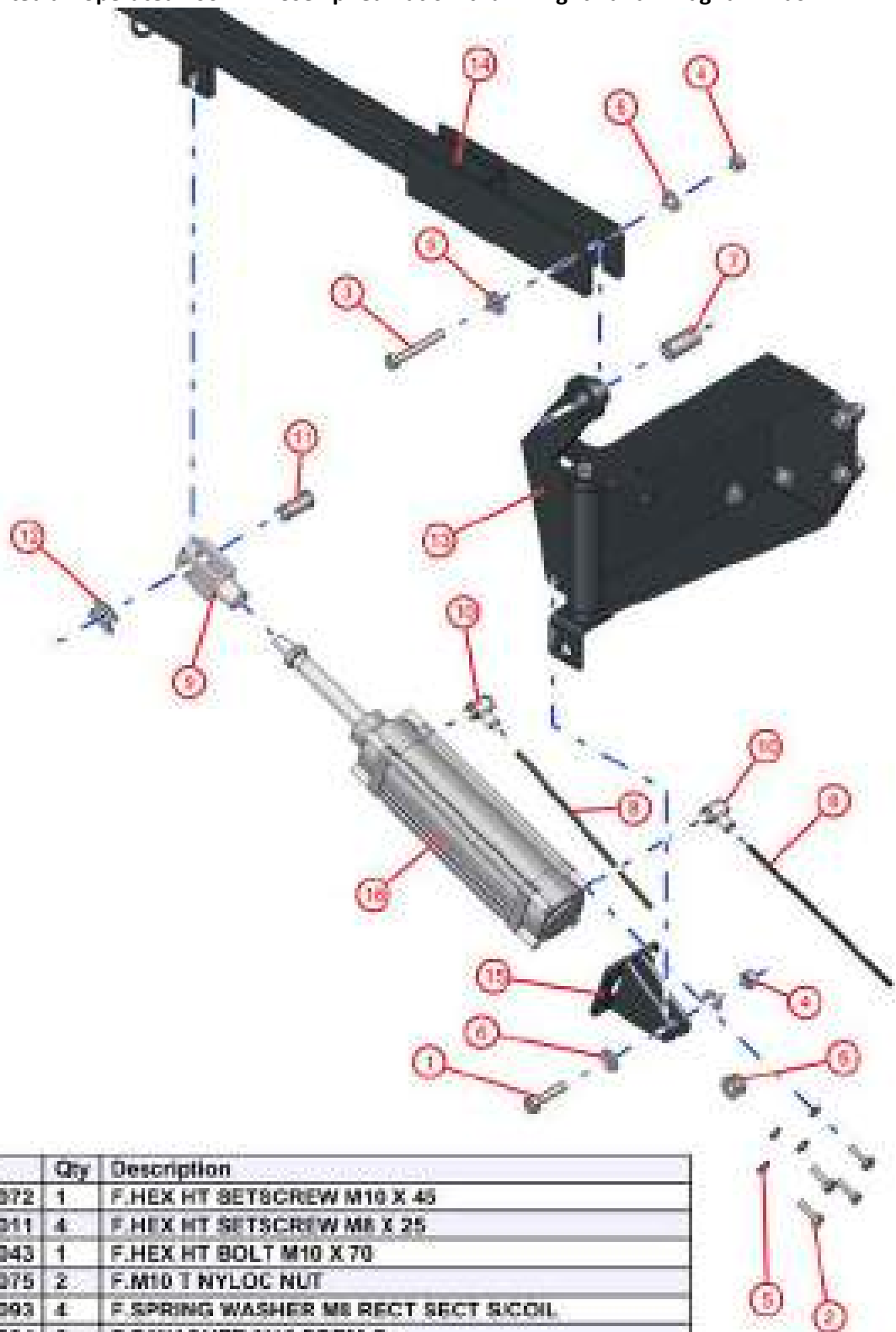
BOM ID	Part No.	Qty	Description
1	SCA010606	4	CARABINER
2	SCA012548	1	ANGLE BRACKET
3	SCA012932	1	JUBILEE CLIP NO 8.50 (184 - 214)
4	SCA025235	4	WANDER HOSE STRAP
5	SCA026974	1	HOSE 8" ID REAR NOZZLES (10 METER LENGTH
6	SCA027926	1	HOSE SUPPORT BOOM AIR OPERATED
7	SCA035291	1	BOOM SPIGOT PLATE DDD 200 DIA REAR BOOM

Wander boom door mounted air operated 200mm hose - boom and stowage - right hand - Magnum Plus



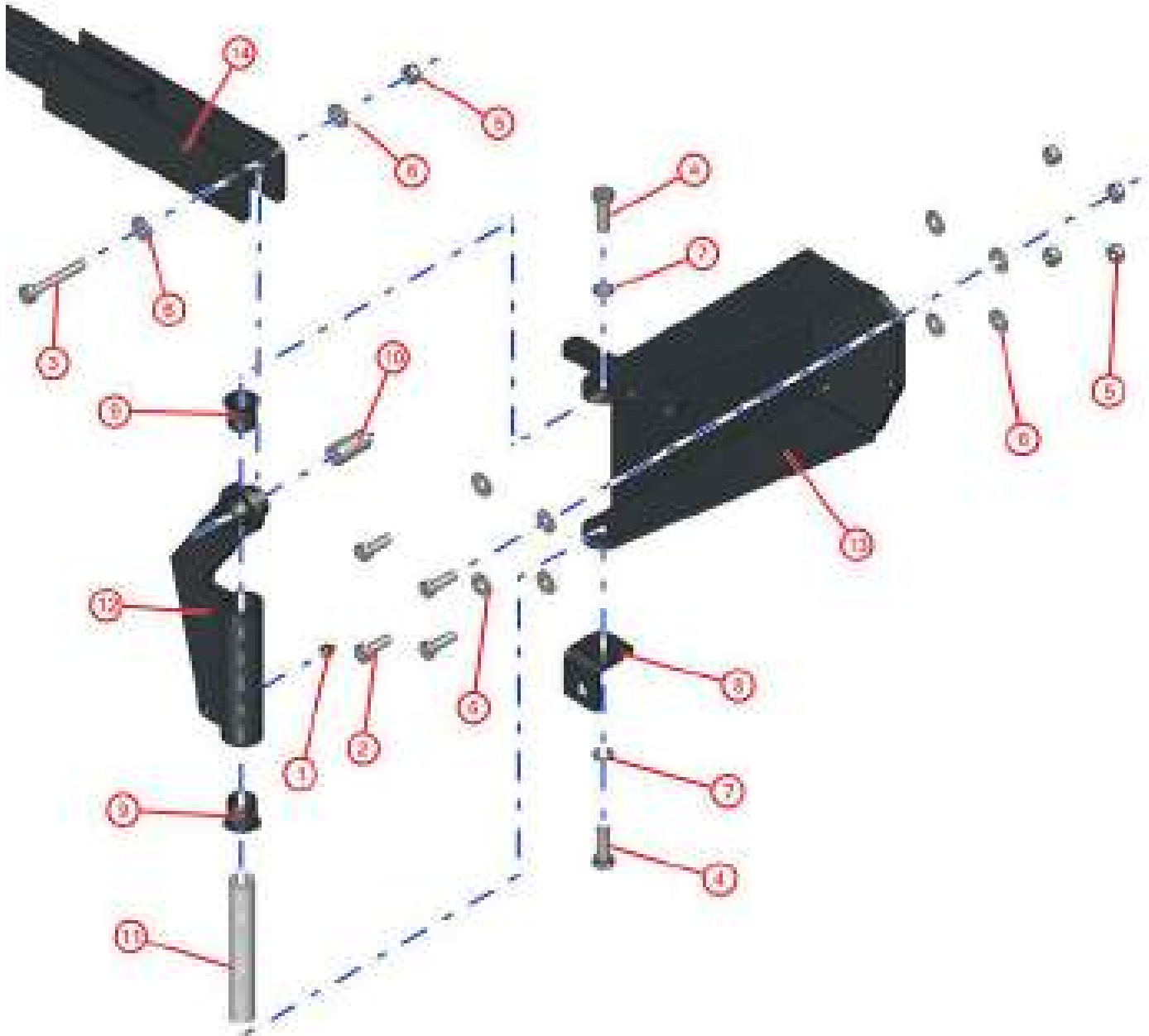
BGM ID	Part No.	Qty	Description
1	SCA005017	6	CABLE TIE BLACK X80L
2	SCA011032	2	F.HEX HT SETSCREW M10 X 30
3	SCA011043	1	F.HEX HT BOLT M10 X 70
4	SCA011072	1	F.HEX FULL NUT M8
5	SCA011075	3	F.M10 T NYLOC NUT
6	SCA011094	6	F.PWASHER M10 FORM C
7	SCA014399	1	SPACER 20 X 10.5 X 41 LG
8	SCA020299	1	CLEVIS PNEUMATIC M16 X 1.5
9	SCA022673	1	CLEVIS PIN (TURNED)
10	SCA022674	1	CLIP RETAINING M16
11	SCA025219	1	WANDER HOSE HINGE
12	SCA027906	1	HOSE SUPPORT BOOM AIR OPERATED
13	SCA027909	1	STOWAGE BRKT AIR OPERATED BOOM
14	SCA028306	1	P.PNEUMATIC CYL 63 X 160
15	SCA033022	1	HOSE RING FRONT BRUSH MINOR

Wander boom door mounted air operated 200mm hose - pneumatic lift ram - right hand - Magnum Plus



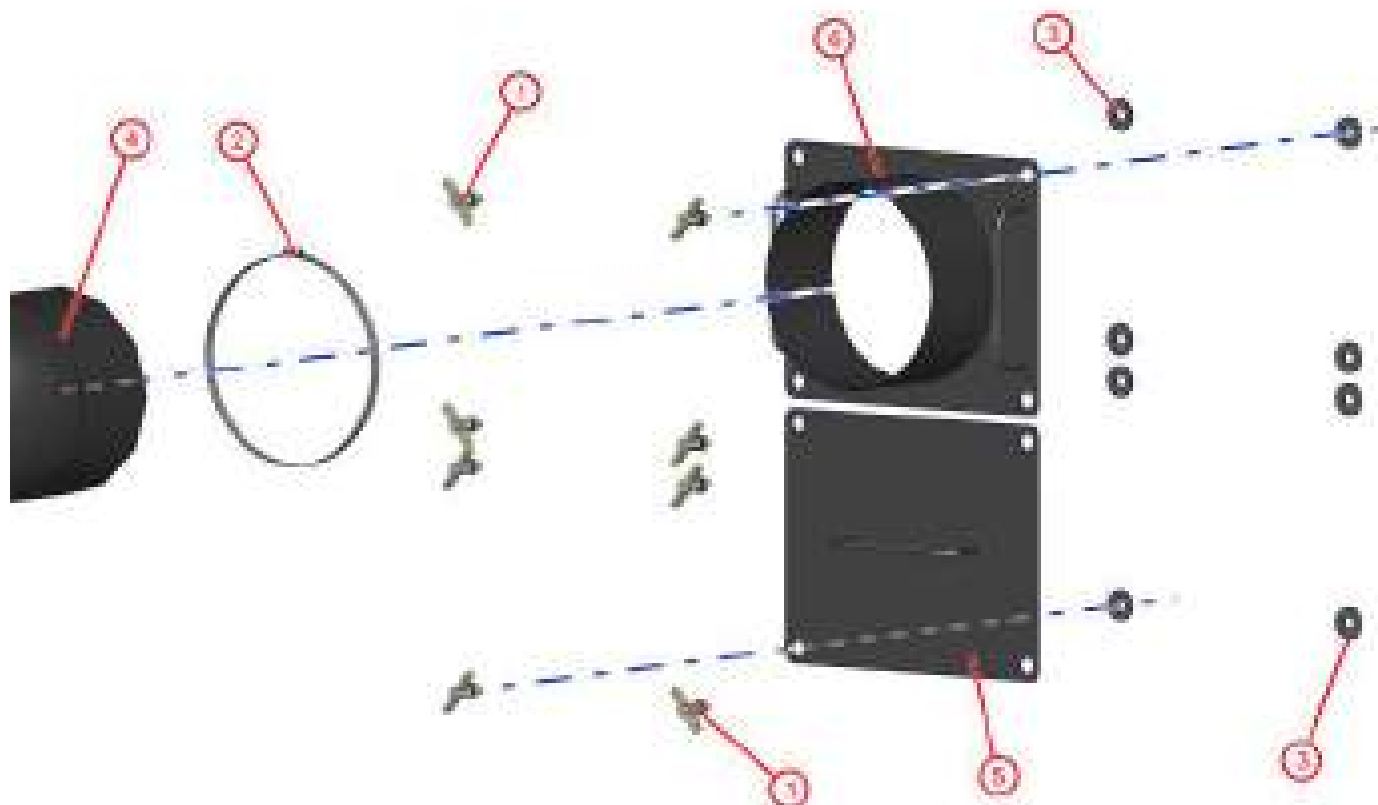
BOM ID	Part No.	Qty	Description
1	SCA000972	1	F.HEX HT SETSCREW M10 X 45
2	SCA011011	4	F.HEX HT SETSCREW M8 X 25
3	SCA011043	1	F.HEX HT BOLT M10 X 70
4	SCA011075	2	F.M10 T NYLOC NUT
5	SCA011093	4	F.SPRING WASHER M8 RECT SECT 5COIL
6	SCA011094	6	F.P.WASHER M10 FORM C
7	SCA014399	1	SPACER 20 X 10.5 X 41 LG
8	SCA014572	2	P.6MM OD X 1MM WT BLACK AIR PIPE
9	SCA020299	1	CLEVIS PNEUMATIC M18 X 1.5
10	SCA021158	2	P.PNEUMATIC FLOW REGULATOR
11	SCA022673	1	CLEVIS PIN (TURNED)
12	SCA022674	1	CLIP RETAINING M18
13	SCA025219	1	WANDER HOSE HINGE
14	SCA027926	1	HOSE SUPPORT BOOM AIR OPERATED
15	SCA028305	1	AIR RAM PIVOT BRKT
16	SCA028306	1	P.PNEUMATIC CYL 63 X 140

Wander boom door mounted air operated 200mm hose - hinge and bracket - right hand - Magnum Plus



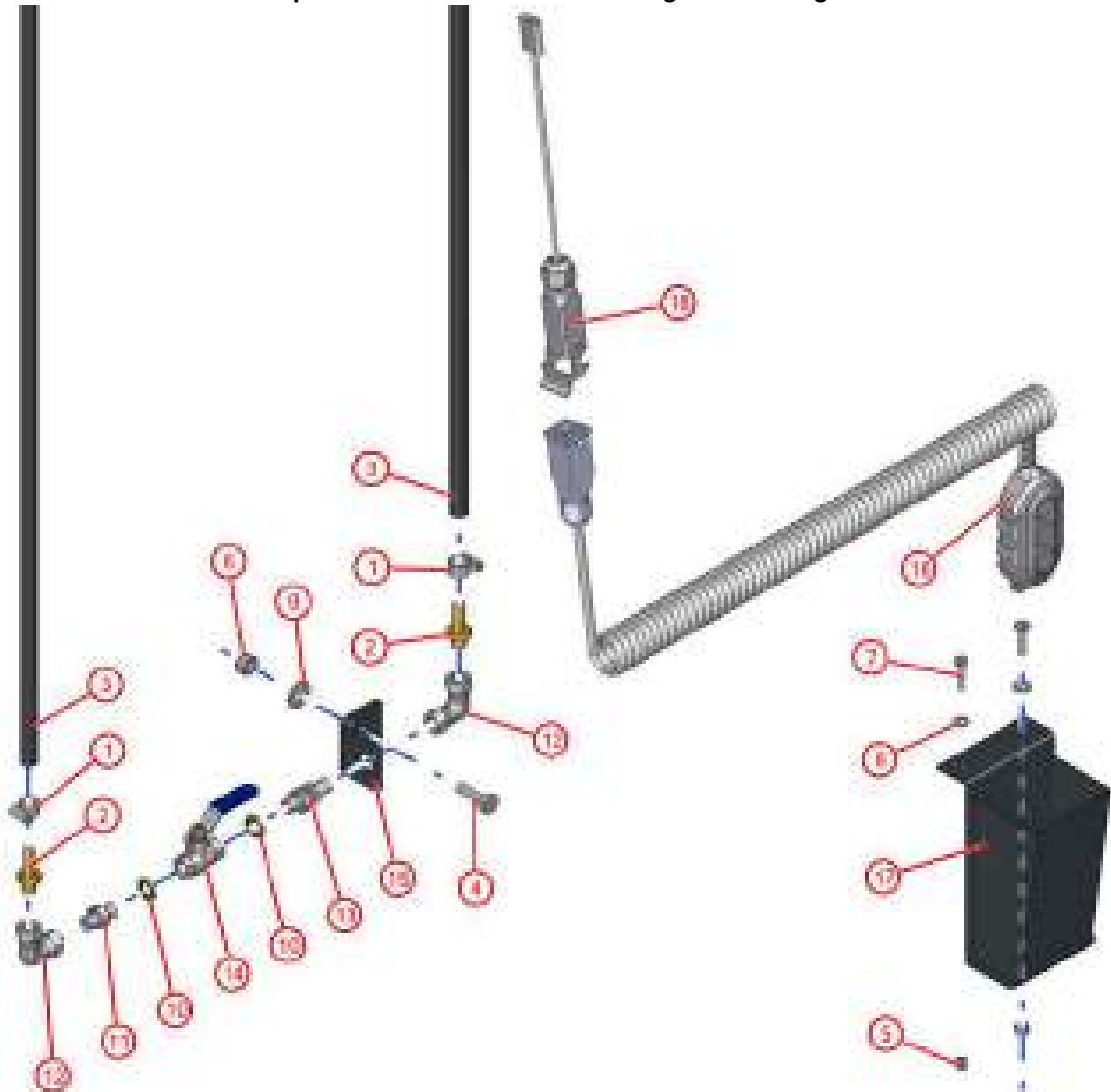
BOM ID	Part No.	Qty	Description
1	SCA010803	1	GREASE NIPPLE 1/8" NPS STR
2	SCA011032	4	F.HEX HT SETSCREW M10 X 30
3	SCA011043	1	F.HEX HT BOLT M10 X 70
4	SCA011053	2	F.HEX HT SETSCREW M12 X 35
5	SCA011075	5	F.M10 T NYLOC NUT
6	SCA011094	10	F.PWASHER M10 FORM C
7	SCA011097	2	F.SPRING WASHER M12 RECT SECT S/COL.
8	SCA012548	1	ANGLE BRACKET
9	SCA013662	2	BUSH BRUSH PIVOTS
10	SCA014399	1	SPACER 20 X 10.5 X 41 LG
11	SCA023490	1	HINGE SHAFT BOOM
12	SCA025219	1	WANDER HOSE HINGE
13	SCA025574	1	WANDER HOSE SUPPORT RH MAJOR/MAXIM
14	SCA027925	1	HOSE SUPPORT BOOM AIR OPERATED

Wander boom door mounted air operated 200mm hose - spigot and blanking - right hand - Magnum Plus



BOM ID	Part No.	Qty	Description
1	SCA012253	8	ANTILUCE (SMALL)
2	SCA012932	1	JUBILEE CLIP NO 8.50 [184 - 216]
3	SCA021979	8	RUBBER SEALING WASHER 30 * 12 * 3 THK
4	SCA026974	1	HOSE 8" ID REAR NOZZLES (10 METER LENGTH
5	SCA035290	1	BLANKING PLATE DOD 200 DIA REAR BOOM
6	SCA035291	1	BOOM SPIGOT PLATE DOD 200 DIA REAR BOOM

Wander boom door mounted air operated 200mm hose - controls - right hand - Magnum Plus



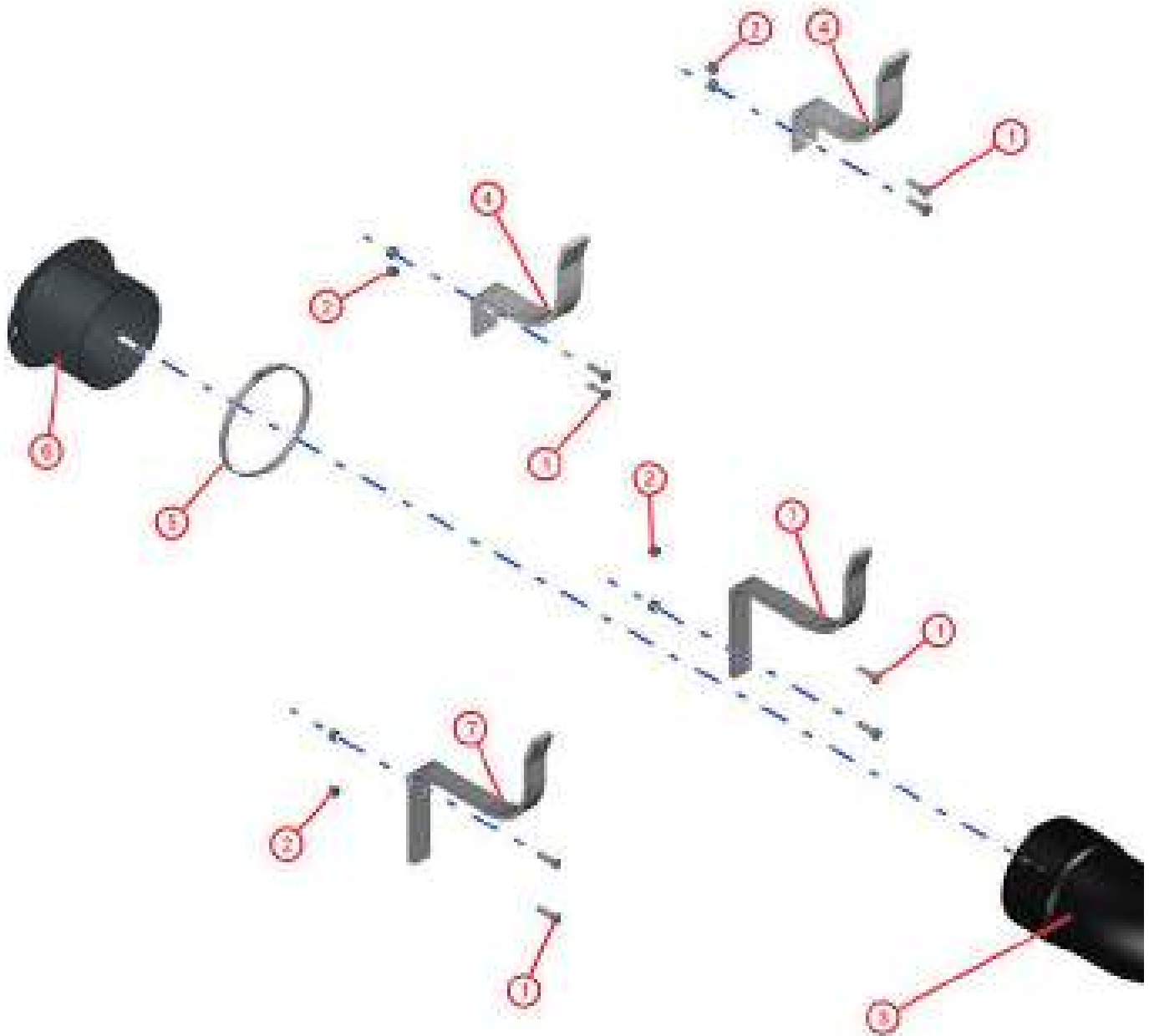
BOM ID	Part No.	Qty	Description
1	SCA010516	2	JUBILEE CLIP No MOQ (11-16)
2	SCA010922	2	B.1/4" BSP X 3/8" HOSETAIL
3	SCA010960	2	HOSE 3/8 BLACK BRAIDED PVC
4	SCA011032	1	F HEX HT SETSCREW M10 X 30
5	SCA011071	2	F.M6 T NYLOC NUT
6	SCA011075	1	F.M10 T NYLOC NUT
7	SCA011087	3	F.HEX HT SETSCREW M6 X 25
8	SCA011090	2	F.PWASHER M6 FORM C
9	SCA011094	1	F.PWASHER M10 FORM C
10	SCA011152	2	H.DOWTY SEAL 1/4" BSP
11	SCA011158	1	H.ADAPTOR 1/4" BSP
12	SCA011169	2	H.SWIVEL ELBOW 1/4" BSP F/F
13	SCA011209	1	H.ADAPT BULKHEAD 1/4BSP
14	SCA011743	1	VALVE 1/4 BALL
15	SCA012548	1	ANGLE BRACKET
16	SCA028267	1	3 BUTTON PENDANT WITH SPIRAL CABLE
17	SCA028335	1	PENDANT HOLSTER REAR AIR OPERATED BOOM
18	SCA036919	1	WIRING LOOM V3 AIR OP BOOM

Standard wander hose - left hand



BOM ID	Part No.	Qty	Description
1	010119	1	HOSE WANDER 3 MTR FLEX
2	010319	2	JUBILEE CLIP No 7 (135-165)
3	010587	1	TUBE FOR WANDERHOSE
4	012488	1	WANDER HOSE SPIGOT
5	040670	1	ASSY WANDER HOSE HANDLE (150 DIA)

Standard wander hose hooks - left hand



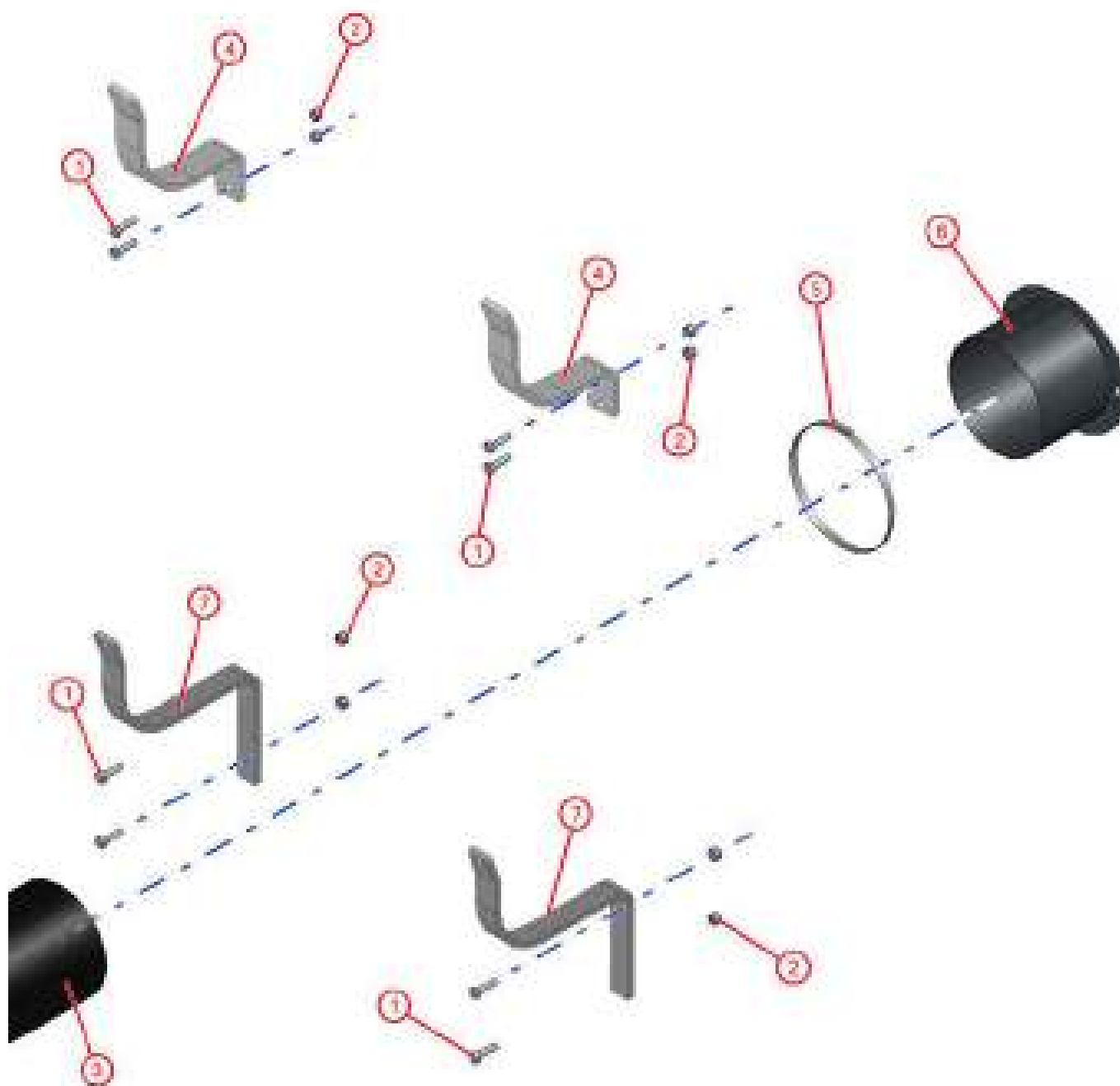
BOM ID	Part No.	Qty	Description
1	000258	8	F.SS HEX SETSCREWS M8 X 30
2	000263	8	F.SS M8 T NYLOC NUT
3	010119	1	HOSE WANDER 3 MTR FLEX
4	010245	2	HOSE HOOK W/HOSE
5	010519	1	JUBILEE CLIP No 7 (135-165)
6	012488	1	WANDER HOSE SPIGOT
7	022747	2	WANDER HOSE PIPE HOOK

Standard wander hose - right hand



BOM ID	Part No.	Qty	Description
1	010119	1	HOSE WANDER 3 MTR FLEX
2	010519	2	JUBILEE CLIP No 7 (125-165)
3	010587	1	TUBE FOR WANDERHOSE
4	012488	1	WANDER HOSE SPIGOT
5	040570	1	ASSY WANDER HOSE HANDLE (150 DIA)

Standard wander hose hooks - right hand



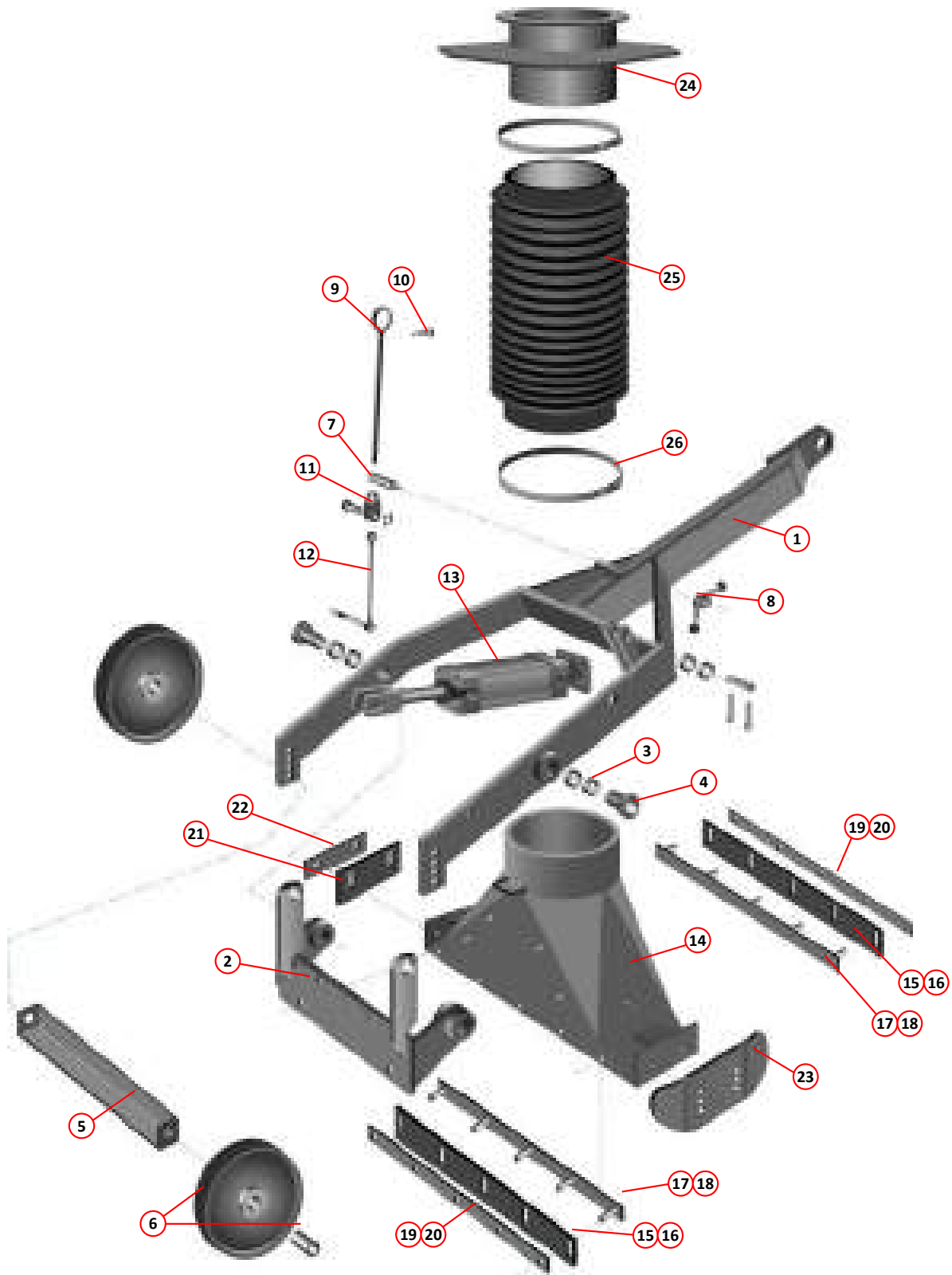
BOM ID	Part No.	Qty	Description
1	000258	8	F.SS HEX SETSCREWS M8 X 30
2	000263	8	F.SS M8 T NYLOC NUT
3	010119	1	HOSE WANDER 3 MTR FLEX
4	010245	2	HOSE HOOK W/HOSE
5	010519	1	JUBILEE CLIP No 7 (135-165)
6	012488	1	WANDER HOSE SPIGOT
7	022747	2	WANDER HOSE PIPE HOOK

Legacy suction components

Item	Part Number	Quantity	Description
Tilting Suction Nozzle Assembly - Pneumatic Tilt - (legacy)			
1	023606	1	Frame, RH
NI	023605	1	Frame, LH
2	023607	1	. . Pivot (pneumatic tilt only)
	000351	2	. . Bolt, M14 x 70mm
	011127	2	. . Nut, M14, Nyloc
3	024682	8	. . Bush, hardened
4	021416	2	. . Sleeve
5	031833	1	. Axle
6	031831	2	. . Wheel, ø250mm, complete with spacer
	011135	4	. . . Washer, M16
	011133	2	. . . Bolt, M16 x 100mm
	011060	2	. . . Nut, M16, Nyloc
7	023625	1	. Adjuster, nozzle
NI	000182	1	. . Special lock nut (adjuster nozzle)
8	024051	1	. . Turn wheel, nozzle adjust
9	023610	1	. . Rod, nozzle adjust
10	021944	1	. . Double wound grip, R clip ø3mm wire
11	020291	1	. . . Clevis, M10 x 1.25
12	025681	1	. . . Leash assembly, nozzle adjust
	039766	1	 Stud, leash cable
	011074	1	 Nut, M10
13	032119	1	. Cylinder, pneumatic, nozzle tilt, assembly Page 540
14	023604 *	1	. Nozzle (Merlin/Magnum/XP)
NI	027136 *	1	. Nozzle, left hand, (Magnum Plus)
NI	027137 *	1	. Nozzle, right hand, (Magnum Plus)
	011031	4	. . Set screw, M10 x 25mm
	011075	4	. . Nut, M10, Nyloc
15	013023	2	. . Flap, nozzle (Merlin/Magnum/XP)
16	027146	2	. . Flap, nozzle (Magnum Plus)
17	013362	2	. . . Retainer, bolt, flap (Merlin/Magnum/XP)
18	027210	2	. . . Retainer, bolt, front/rear flap (Magnum Plus)
19	013025	1	. . . Clamp strip, flap (Merlin/Magnum/XP)
20	027147	1	. . . Clamp strip, flap (Magnum Plus)
	011073	10	 Nut, M8, Nyloc
21	013283	1	. . Flap, nozzle, side
22	013024	1	. . . Clamp, retaining, side flap
	011012	2	 Set screw, M8 x 30mm
	011073	2	 Nut, M8, Nyloc
	011010	5	 Set screw, M8 x 20mm (front flap plate)
23	013277	1	. . Skid plate, nozzle
	011021	2	. . . Screw, socket cap head, M8 x 25mm
	011073	2	. . . Nut, M8, Nyloc
24		1	Suction spigot Page 338
25	013028	1	. Suction hose Page 338
26	012933	2	. . Clamp, worm drive, 235-267mm

Notes:-

* These items can also be supplied with a PU coating. Please contact the Scarab Parts Department.



Frame tow-point ball ends are welded to the frame but can be procured as replacements if required. Please contact the Scarab Parts Department for details.
Right hand shown, left hand similar.

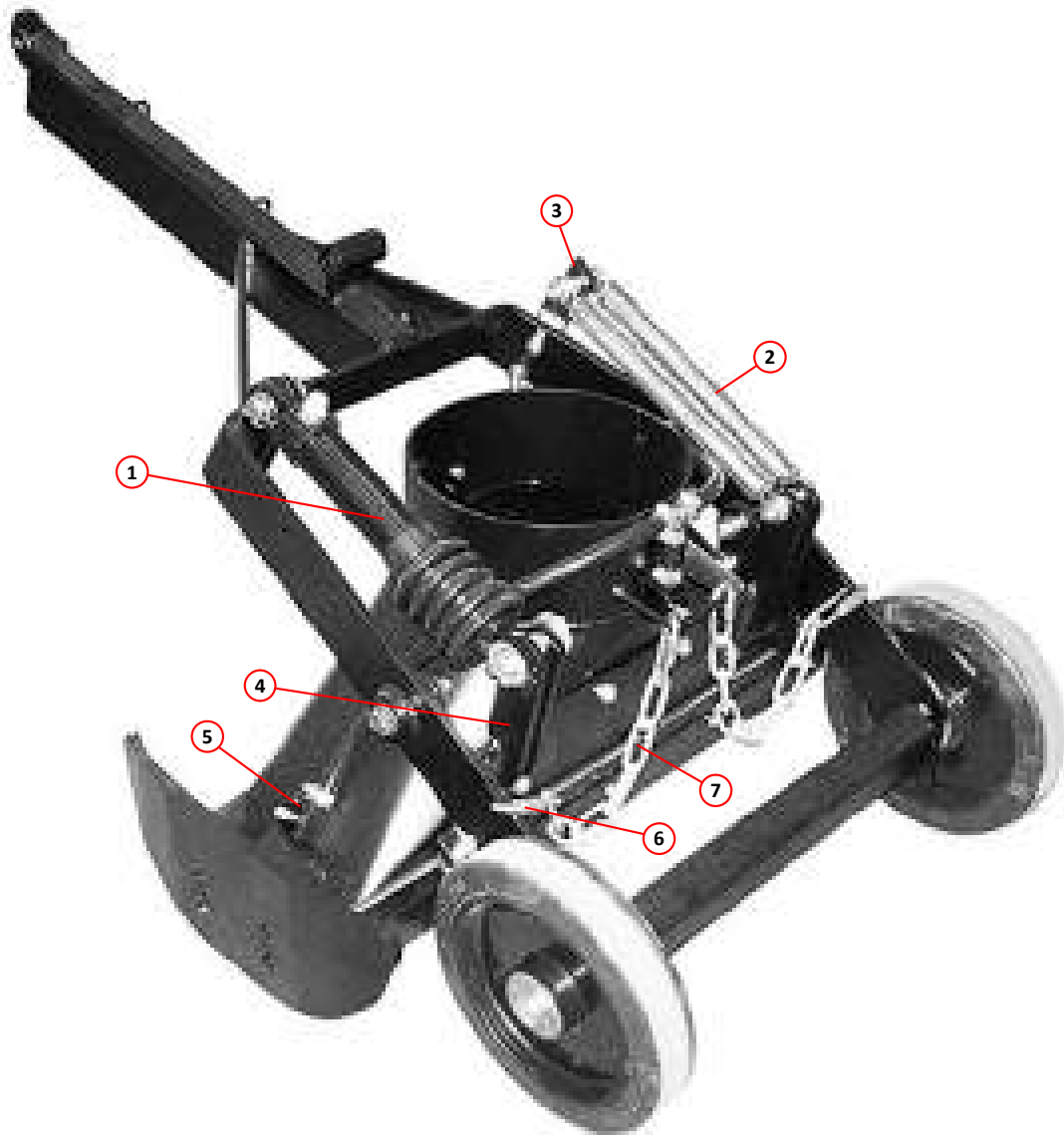
Tilting Suction Nozzle Assembly - Pneumatic Tilt

Item	Part Number	Quantity	Description
Tilting Suction Nozzle Assembly - Hydraulic Variable Tilt - (legacy) *			
1	024539 †	1	Ram, hydraulic, variable tilt (option) Page 512
2	010017 †	2	. Spring, variable tilt (option)
	011724	2	. . Spacer, ø20OD x ø12.5ID x 11mm
	013363	1	. . Spacer, ø20OD x ø10.5ID x 30mm
	011036	2	. . . Bolt, M10 x 60mm
	011074	4	. . . Washer, M10
	011075	2	. . Nut, M10 Nyloc
3	025100†	1	. . Bracket, spring support, RH
NI	025099†	1	. . Bracket, spring support, LH
	011032	2	. . . Set screw, M10 x 30mm
	011075	2	. . . Nut, M10, Nyloc
4	020328†	1	. . Pivot (hydraulic tilt only)
5		4	. Jet, water spray Page 424
6	010606	4	. Carabiner
7	010525	AR	. . Chain, large link, welded

Notes:-

* For all other components of this assembly please refer to Page 330.

† When procuring replacement parts for the ram and return springs on hydraulically operated nozzle tilt setup, please contact the Scarab Parts Department.



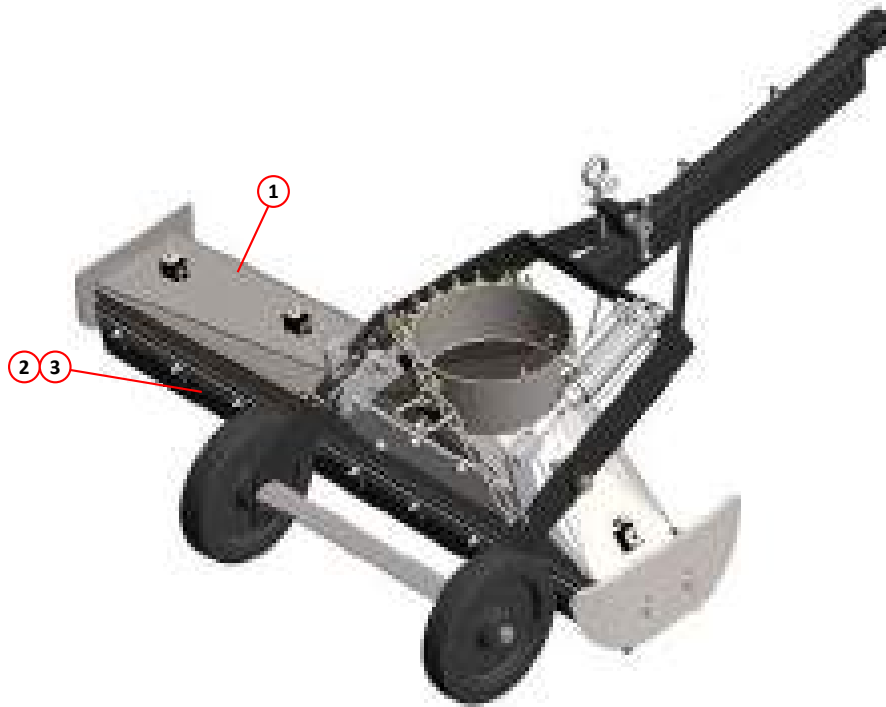
i Left hand shown, right hand similar.
For all other components of this assembly please refer to Page 330.

Tilting Suction Nozzle Assembly - Hydraulic Variable Tilt

<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Full Width Suction Nozzle Assembly (Merlin) - (legacy) - (Option)			
1	030928 *	1	Nozzle full width, RH
NI	030929 *	1	Nozzle full width, LH
2	030940	2	. Flap, front/rear
3	030939	2	. Retainer, bolt, front/rear
3	030941	2	. Clamp, front/rear
	011073	18	. . Nut, M8, Nyloc

Notes:-

* These items can also be supplied with a PU coating. Please contact the Scarab Parts Department.



Full Width Suction Nozzle Assembly (Merlin)

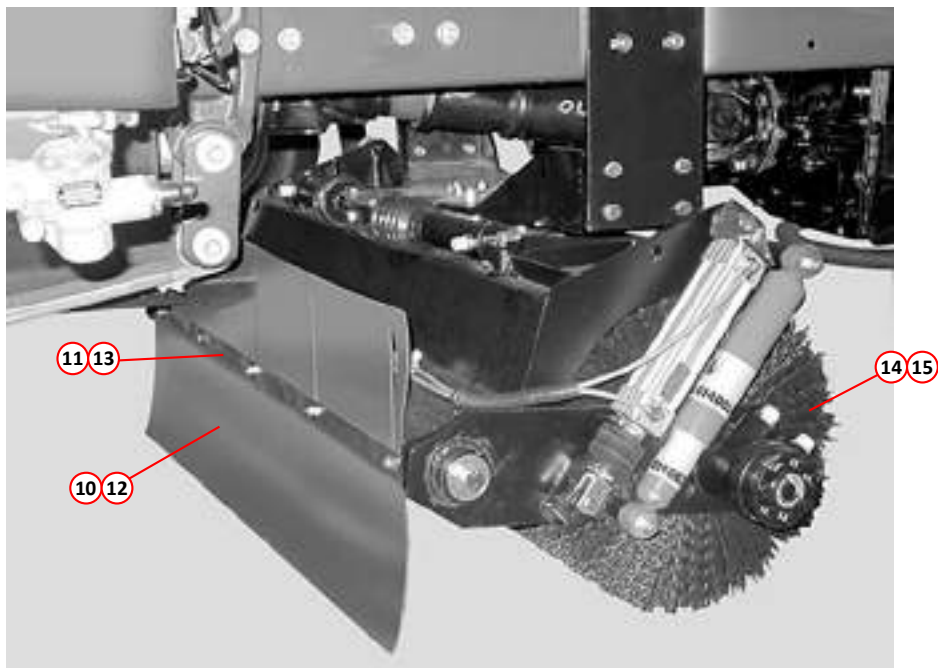
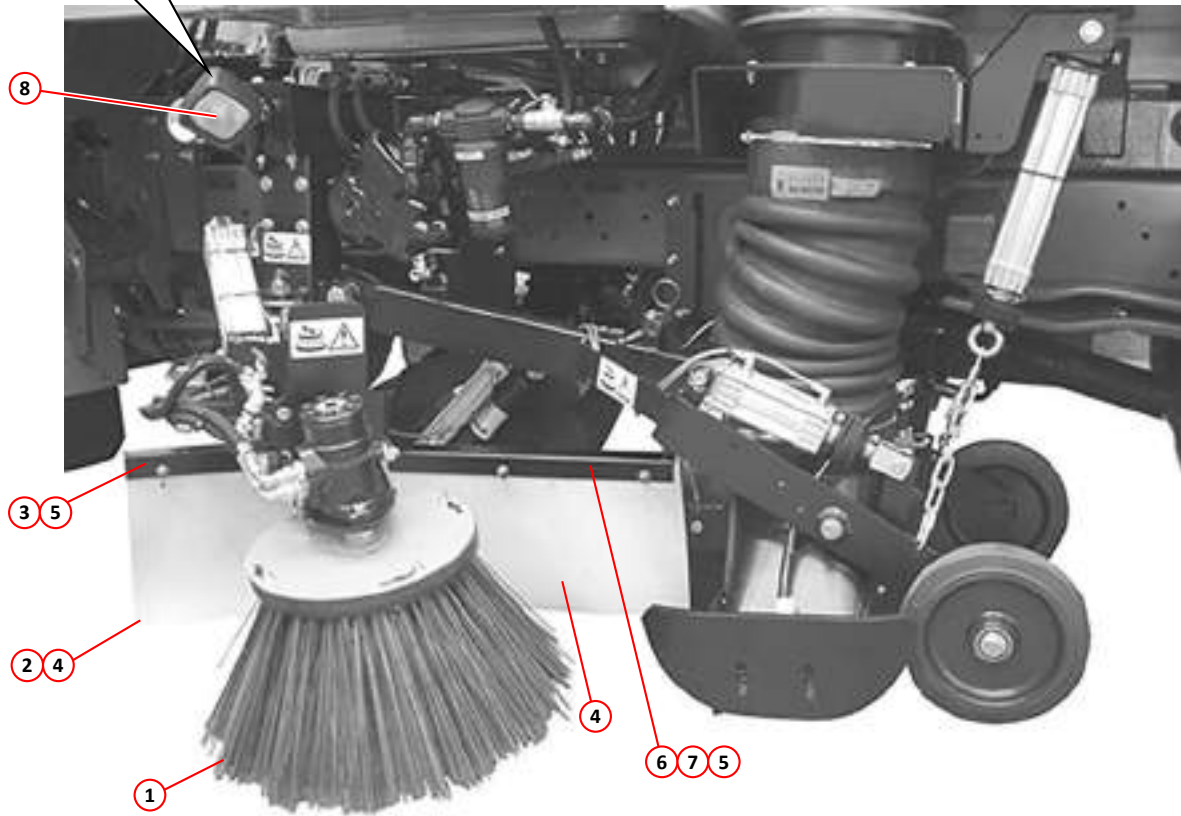
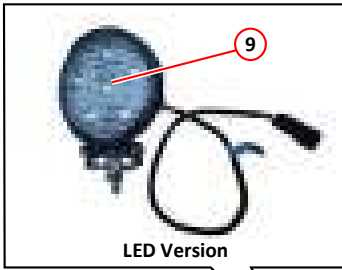
Item	Part Number	Quantity	Description
Associated Sweeping Equipment - (legacy)			
1	023470	AR	Side brush, ø315mm, 4 stud (steel)
NI	023473	AR	Side brush, ø400mm, 3 stud (steel)
NI	020921	AR	Side brush, ø400mm, 3 stud (weed ripping)
NI	025744	AR	Side brush, ø400mm, 4 stud (poly)
2	012216	AR	. Skirt, side brush, front, 2 slot
3		1	. . Clamp, skirt, 2 hole
	011011	2	. . . Set screw, M8 x 25mm
	011092	4	. Washer, M8
	011073	2	. Nut, M8 Nyloc
4	010247	AR	. Skirt, side brush, front, 3 slot
5		1	. . Clamp, skirt, 3 stud
	011092	6	. . . Washer, M8
	011073	3	. . . Nut, M8, Nyloc
6	013145	AR	. . . Clamp, angle, 3 hole
7	010606	AR	 Carabiner
8	037084	AR	Work light Page 556
9	047757	1	LED Work Light Page 342,556
10	022516	1	Skirt, wide sweep
11	022517	1	. Clamp, wide sweep
	011073	5	. . Nut, M8, Nyloc
12	026026	1	Skirt, wide sweep, extended
13	026025	1	. Clamp, wide sweep
	011073	5	. . Nut, M8, Nyloc
14	023168	AR	Brush element, ø300mm, wide sweep core
15	023169	AR	Brush element, ø400mm, wide sweep core
NI	023472	AR	. Spacer
NI	023471 *	1	Brush element, ø300mm
NI	023474 *	1	Brush element, ø400mm

Per Skirt

Per Skirt

 complete refill =
 33 brush elements + 32 spacers
Notes:-

* For extended wide sweep brush element refills add an extra 12 brushes + 12 spacers.



 Please note that pneumatic cylinders are no longer fitted with bellows.

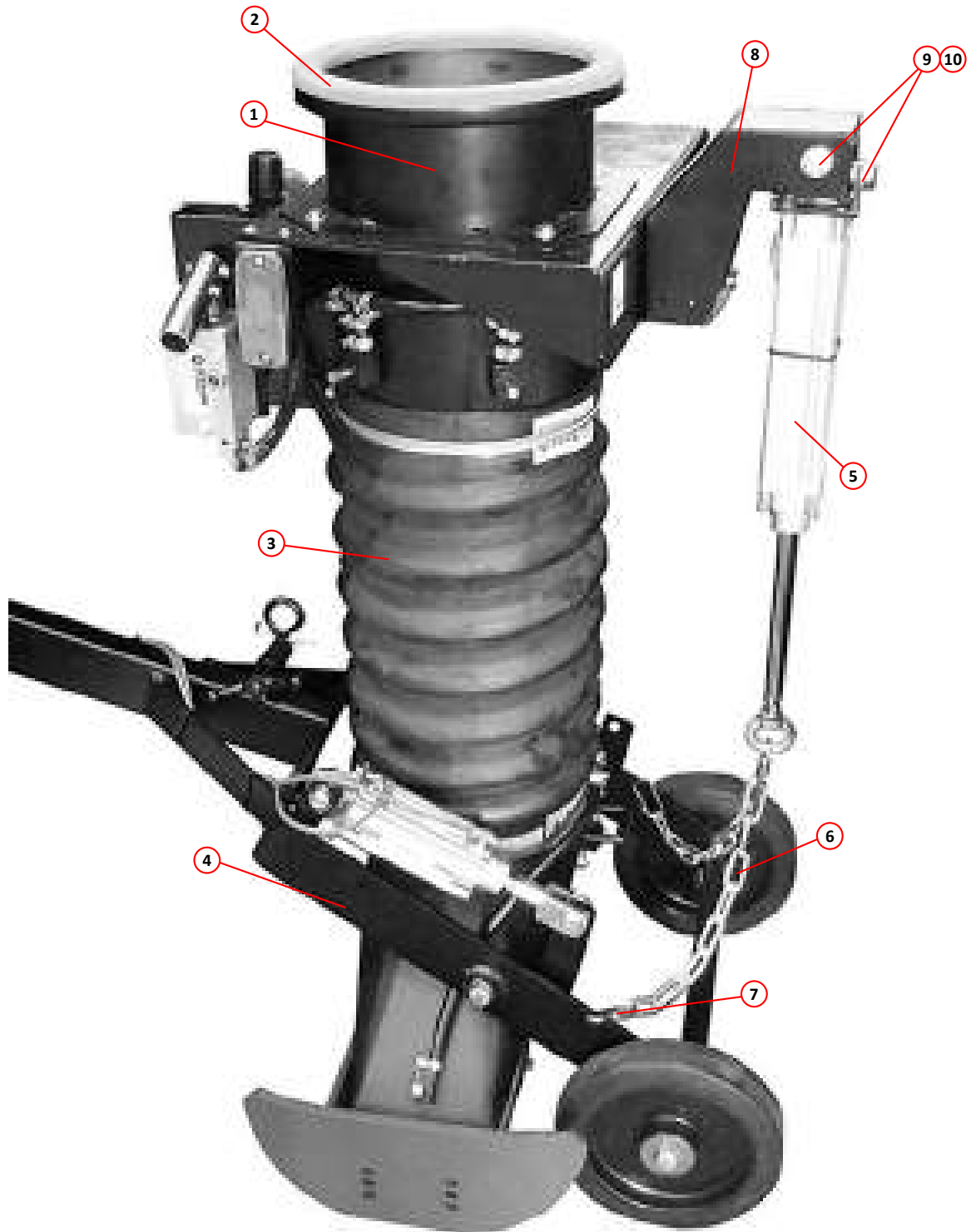
Associated Sweeping Equipment

Item	Part Number	Quantity	Description
Suction Spigot And Nozzle Lifting Arrangement - (legacy)			
1	013111 *	1	Suction spigot, 220mm long
1	023896 *	1	Suction spigot, 300mm long
1	013976 *	1	Suction spigot, 380mm long
1	024514 *	1	Suction spigot, 400mm long
1	020801 *	1	Suction spigot, 440mm long
1	024512 *	1	Suction spigot, 500mm long
1	024735 *	1	Suction spigot, 600mm long
2	013601	1	. Seal, spigot
3	013028	1	Suction hose
	012933	2	. Clamp, worm drive, 235-267mm
4			Suction nozzle assembly Page 330
5		1	. Cylinder, pneumatic, nozzle lift, assembly Page 540
6	010525	AR	. . Chain, large link, welded
7	010606	3	. . . Carabiner
8	030775	1	. . Cylinder mounting bracket
	011033	4	. . . Set screw, M10 x 35mm
	011075	4	. . . Nut M10, Nyloc
9	030776	1	. . . Cylinder pivot block
	011057	1	 Bolt, M12 x 100mm
	011077	1	 Nut, M12, Nyloc
	011096	4	 Washer, M12
10	030777	1	 Cylinder pivot
	011057	1	 Bolt, M12 x 100mm
	011077	1	 Nut, M12, Nyloc
	011096	4	 Washer, M12

Notes:-

* These items can also be supplied with a PU coating. Please contact the Scarab Parts Department.

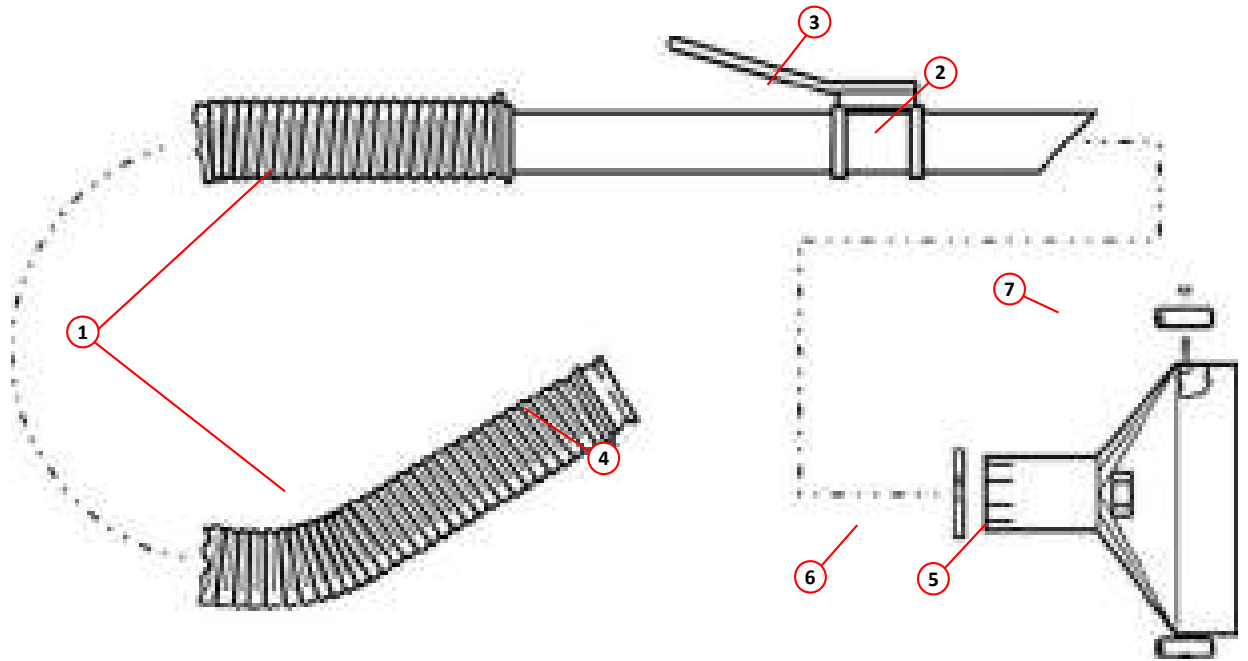
The Scarab sweeping equipment is mounted on a wide range of chassis types. The height of the chassis determines which type of suction spigot is fitted. It may be advisable to obtain either the length of spigot and/or the machine serial number and contact the Scarab Parts Department.



i Left hand with pneumatic lift version shown, right hand similar.

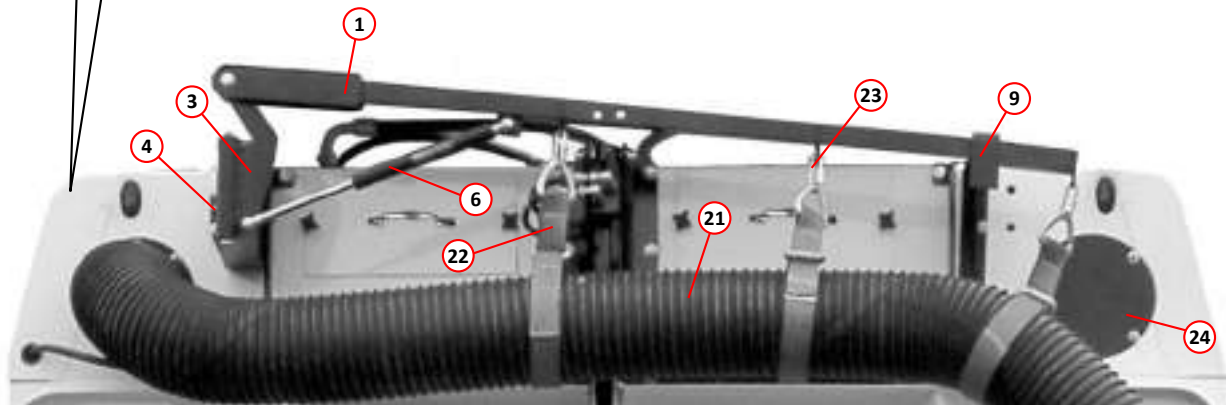
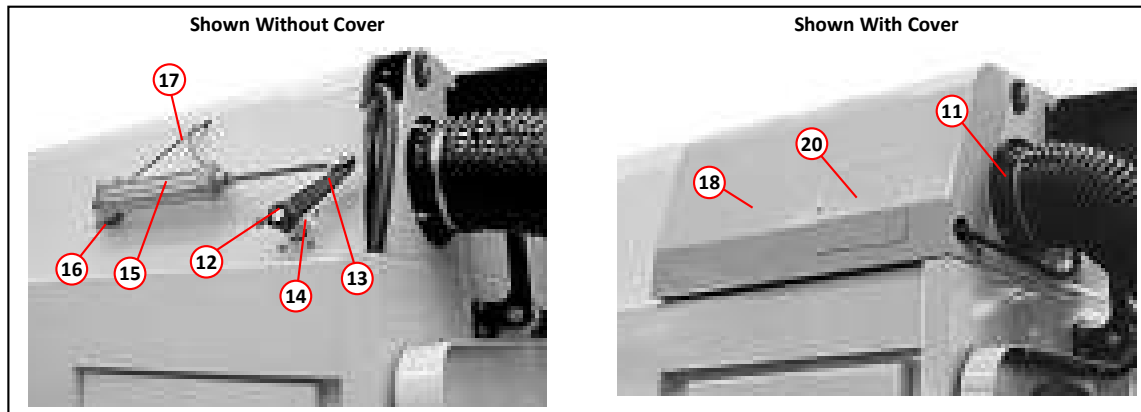
Suction Spigot and Nozzle Lifting Arrangement

<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
			Wander Hose Arrangement - (legacy)
1	010119	1	Hose/trunking, flexible, ø160mm x 3m
2	010587	1	. Pipe, nozzle
	010519	2	. . Clamp, worm drive, 135-165mm
3	040670	1	. . Handle
4	012488	1	. . Spigot
NI	013537	1	. . . Gasket
5	012873	1	. . Fishtail (option)
6	011808	1	. . . Clip, over-centre fastening
7	010508	2	. . . Wheel
	011035	1	Set screw, M10 x 50mm (axle)
	011075	1	 Nut, M10, Nyloc

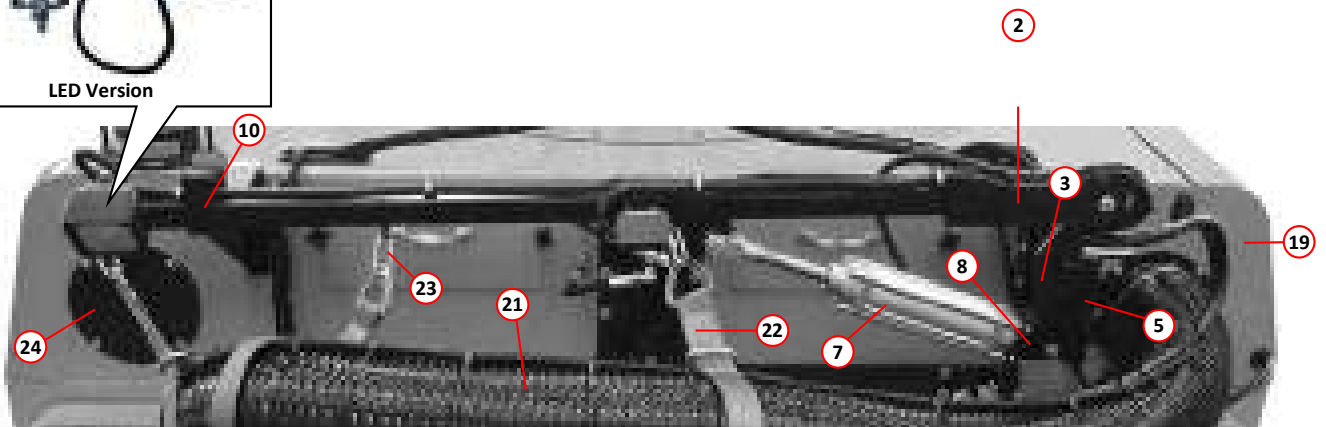
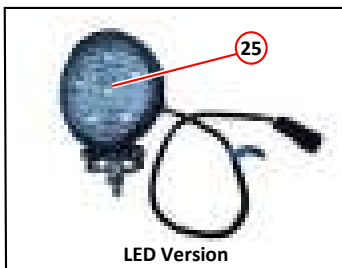


Wander Hose Arrangement
Showing Fishtail Option

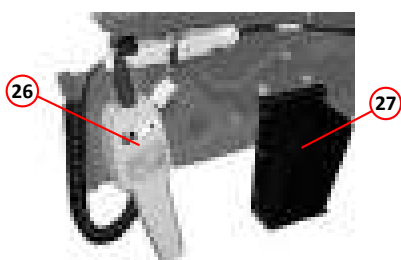
Item	Part Number	Quantity	Description
Wander Boom - Rear Mounted - With Remote Control - (legacy) -			
1	025218	1	Support boom arm, wander hose (gas strut)
2	027926	1	Support boom arm, wander hose (pneumatic)
NI	014399	1	. Spacer 20 x 10.5 x 41mm
		1	. . Bolt, M10 x 55mm, stainless steel
		2	. . Washer, M10, stainless steel
		1	. . Nut, M10, Nyloc
3	025219	1	. Hinge, support, boom, wander hose
NI	013662	2	. . Bush
NI	023490	1	. . Hinge shaft
		2	. . Bolt, M12 x 40mm, stainless steel
4	025220	1	. Support, wander hose, LH
5	025574	1	. Support, wander hose, RH
6	021993	1	. Gas strut, boom support arm (gas strut)
7	028306	1	. Cylinder, pneumatic, wander boom raise lower (pneumatic)
NI	021158	2	. . Restrictor
	011034	1	. . Set screw, M10 x 40mm
	011075	1	. . Nut, M10, Nyloc
8	028305	1	. . Pivot, cylinder
	011010	4	. . . Set screw, M8 x 20mm
	011093	4	. . . Washer, spring, M8
9	034313	1	. Bracket, stowage hook (gas strut)
10	027929	1	. Bracket, stowage (pneumatic)
11	025225	1	. Wander hose sleeve
12	025476	1	. . Flap arm, wander hose
NI	025487	1	. . . Blanking flap, wander hose
13	025254	1	. . . Flap lever
14	025471	1	 Pivot tube - wander hose flap (bolt on)
NI	013488	2	 Bush
NI	010903	1	 Grease point, straight $\frac{1}{8}$ " BSP
15	021467	1	. . Cylinder, pneumatic, wander hose blanking
16	025524	1	. . . Pivot plate, cylinder
17	024650	1	. . . Air pipe, nylon, 6mm
NI	012316	1	. . Spray jet
NI	010915	1	. . . Elbow, galvanised, $\frac{3}{8}$ " BSP
NI	010922	2	. . . Hose tail, $\frac{1}{4}$ " BSP x $\frac{3}{8}$ " hose
NI	010950	AR	. . . Hose, plastic reinforced, $\frac{3}{8}$ " bore
NI	010516	2	 Clamp, worm drive, 11-16mm
18	025980	1	. . Cover, LH, (Merlin)
NI	025979	1	. . Cover, RH, (Merlin)
NI	026104	1	. . Cover, LH, (Magnum)
19	026105	1	. . Cover, RH, (Magnum)
20	030674	1	. . . Cover, inspection, (Merlin)
NI	030675	1	. . . Cover, inspection, (Magnum)
21	025214	1	Wander hose
NI	012933	2	. Clamp, worm drive, 235-267mm
22	025235	3	. Strap, wander hose
23	010606	1	. . Carabiner
24	025486	1	. Cover plate
25	047757	1	LED work light
26	028270	1	. Remote control unit, rear boom (pneumatic)
27	028355	1	. . Holster, for remote control



Gas Strut Rear Mounted Wander Boom

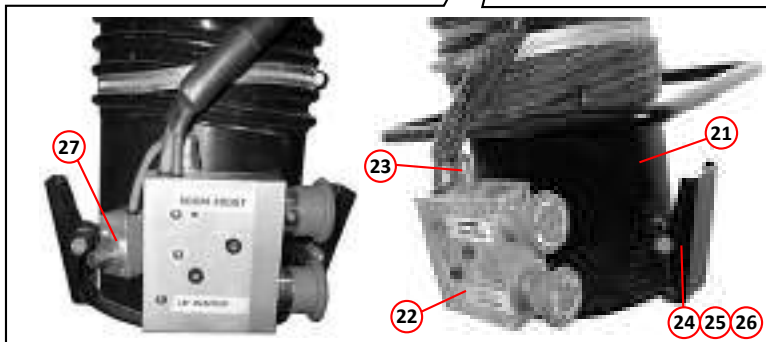
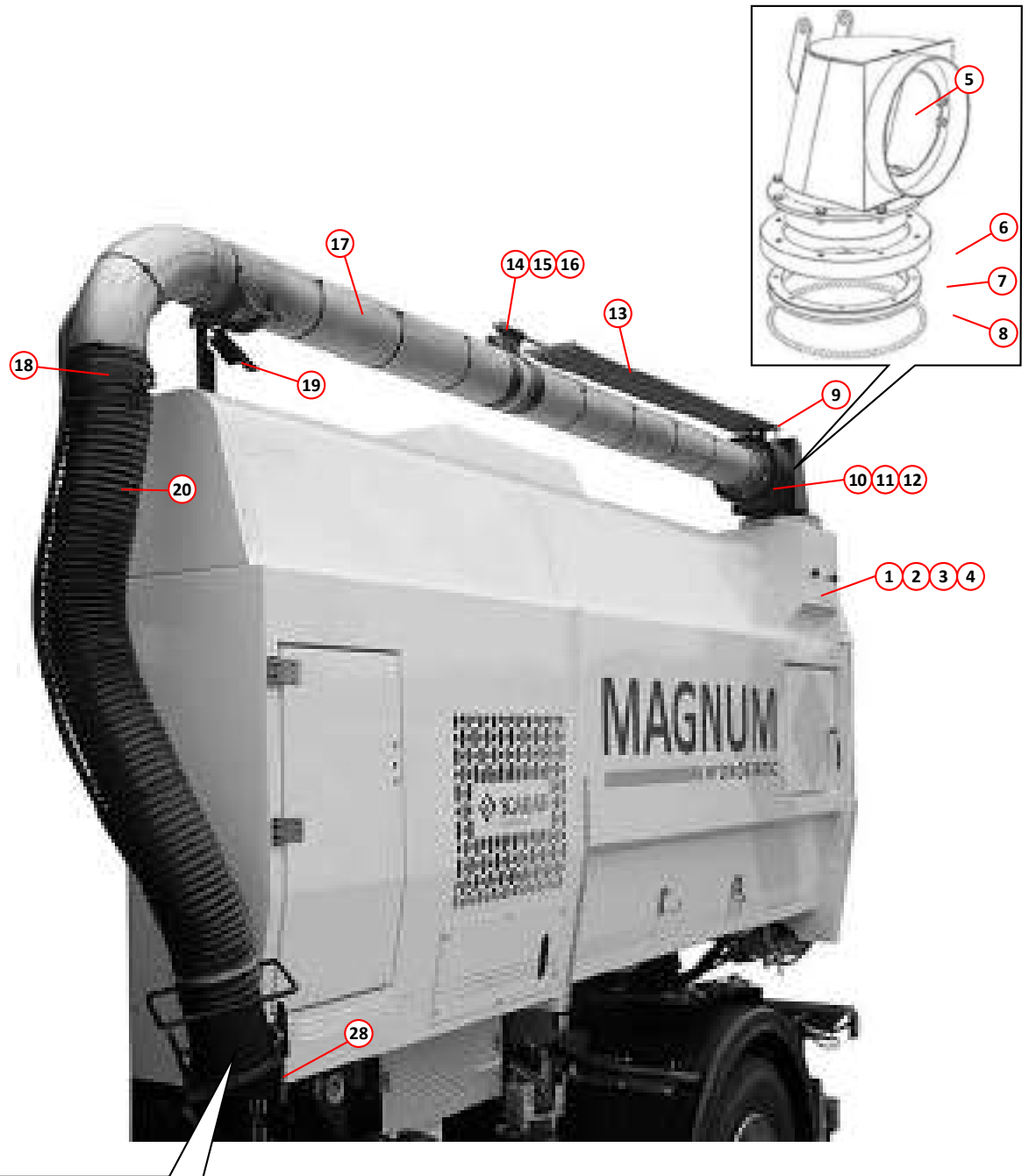


Pneumatic Rear Mounted Wander Boom
Shown With Rear View Camera and Optional Work Light



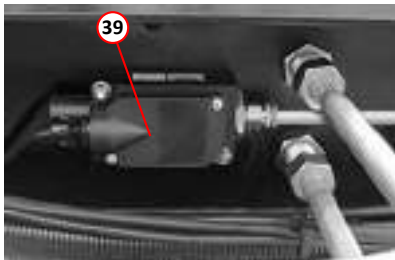
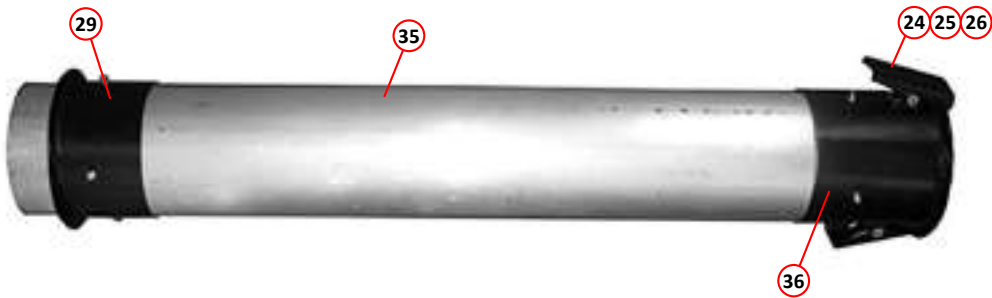
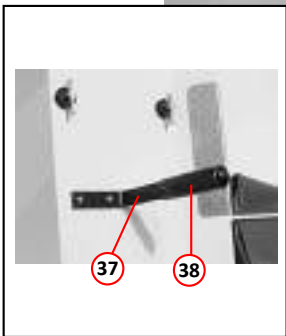
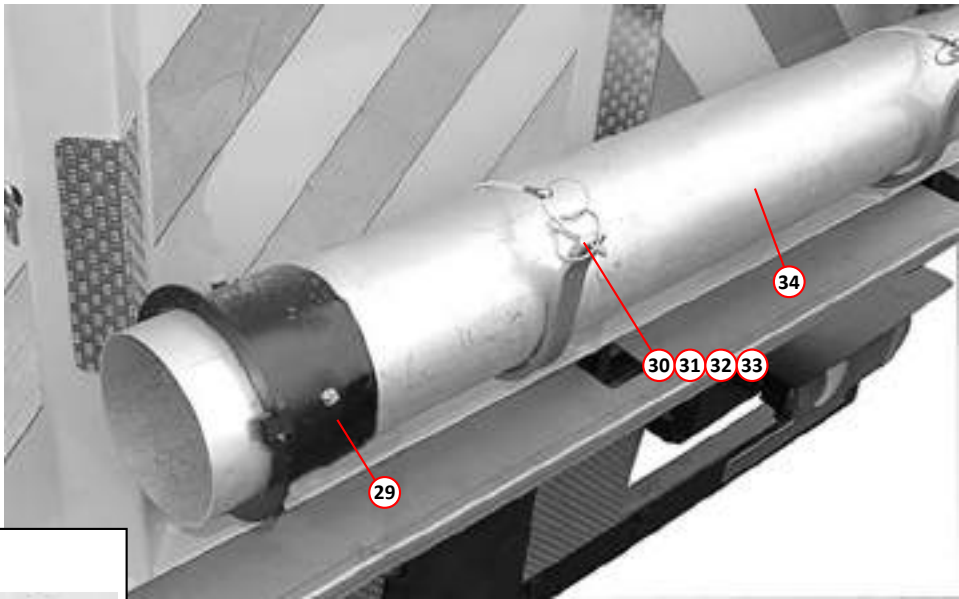
Wander Boom - Rear Mounted
With Remote Control

Item	Part Number	Quantity	Description
Overhead Boom Assembly - (legacy) - (Option)			
1	032160	1	Boom carrier, LH
NI	034068	1	Boom carrier, RH
	000257	26	. Set screw, M8 x 25mm, stainless steel
	000264	31	. Washer M8, stainless steel
	000263	31	. Nut, M8, Nyloc, stainless steel
2	032351	1	. Access cover
3	010502	1	. Handle
4	000248	2	. Locking handle M8
5	013793	1	. Boom elbow
6	013788	1	. . Outer slew ring
7	013789	1	. . Inner slew ring
8	013791	92	. . . Ball, ø10mm
NI	013792	1	. . . Grease point, straight, $\frac{1}{4}$ " BSP
	011031	22	. . Set screw, M10 x 25mm
	011095	17	. . Washer, spring, M10
9	013801	1	. Bracket, spring anchor
	011141	2	. . Set screw, M16 x 35mm
	011060	2	. . Nut, M16, Nyloc
10	014223	1	. Suction hose
11	036174	1	. Pivot boom
12	013796	2	. Pivot block
	012933	1	. . Clamp, worm drive, 235-267mm
	011036	4	. . Bolt, M10 x 60mm
13	013805	4	. Spring, 800mm long
14	013802	1	. Bracket, tensioner anchor
15	013804	1	. Bracket, tensioner
16	036099	2	. Tensioner clamp
	011053	2	. . Set screw, M12 x 35mm
	011077	5	. . Nut, M12, Nyloc
17	036851	1	. Suction tube, Magnum
18	036100	1	. Hose, clamp ring
	000257	6	. . Set screw, M8 x 25mm, stainless steel
	011073	8	. . Nut, M8, Nyloc, stainless steel
19	036354	1	. Bracket, boom hook retaining
	000280	2	. . Set screw, M10 x 25mm, stainless steel
	000270	2	. . Washer, M10, stainless steel
	011075	2	. . Nut, M10, Nyloc, stainless steel
20	035990	AR	. Wander hose ø160mm ID x 3m
	010519	2	. . Clamp, worm drive, 135-165mm
21	033402	1	. Hose coupling
22	033110	1	. Control valve
23	023203	1	. Elbow, ø6mm tube $\frac{1}{4}$ " BSP
	000137	2	. . Screw, socket cap head, M5 x 50mm
24	033536	2	. Clamp handle
25	034802	4	. Spring
26	033463	2	. Spacer
	011016	2	. . Set screw, M8 x 50mm
27	034342	1	. Low pressure water nozzle
	011087	1	. . Set screw, M6 x 25mm
28	033400	1	. Bracket, hose coupling stowage (LH shown)
NI	034067	1	. Bracket, hose coupling stowage, (RH)



Overhead Boom Assembly

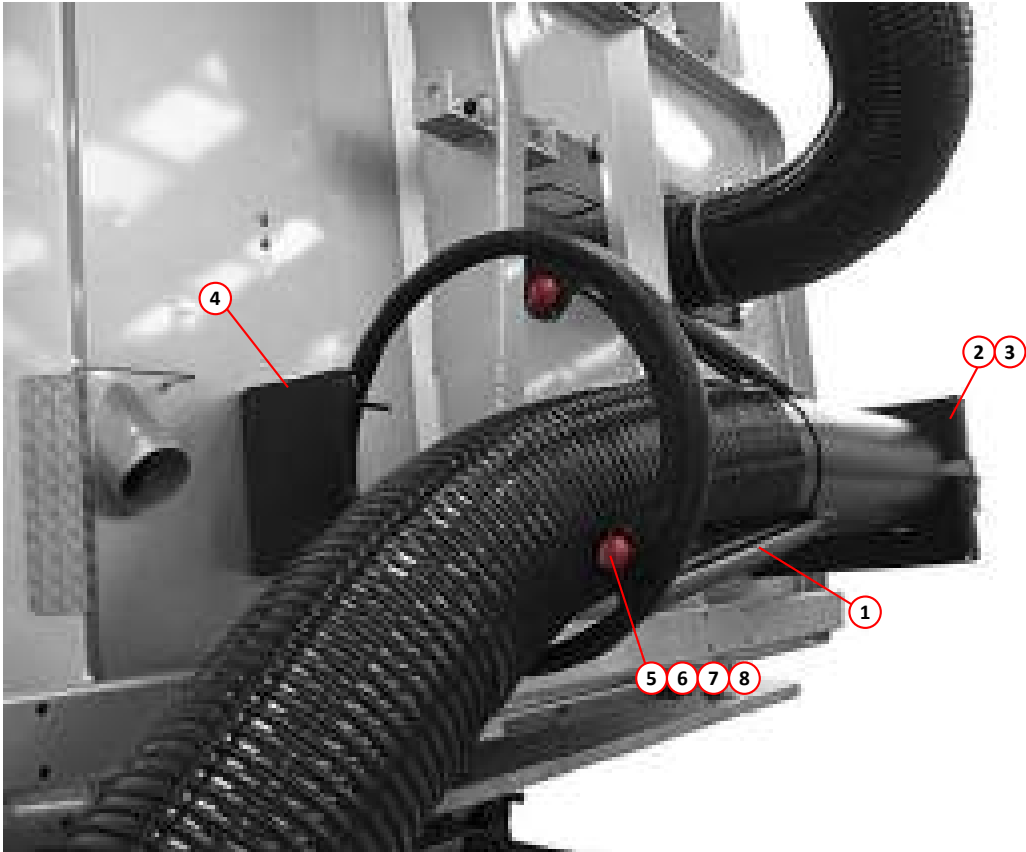
<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Overhead Boom Assembly - (legacy) - (Option) - Continued			
29	033403	1	Boom tube coupling
	000250	4	. Set screw, M6 x 20mm, stainless steel
	000253	4	. Nut, M6, stainless steel
30	013507	2	Linch pin
31	020711	2	Leash cable
32	023599	2	Pull ring
33	022747	2	Hook
34	034551	1	Lower section tube
35	034552	1	. Extension tube
36	034065	1	. . Extension tube coupling top
	000250	4	. . Set screw, M6 x 20mm, stainless steel
	000253	4	. . . Nut, M6, Nyloc, stainless steel
37	026239	2	Bracket, lower suction tube retaining
38	014997	2	. Plastic handle grip
39	028117	1	Switch, air pressure



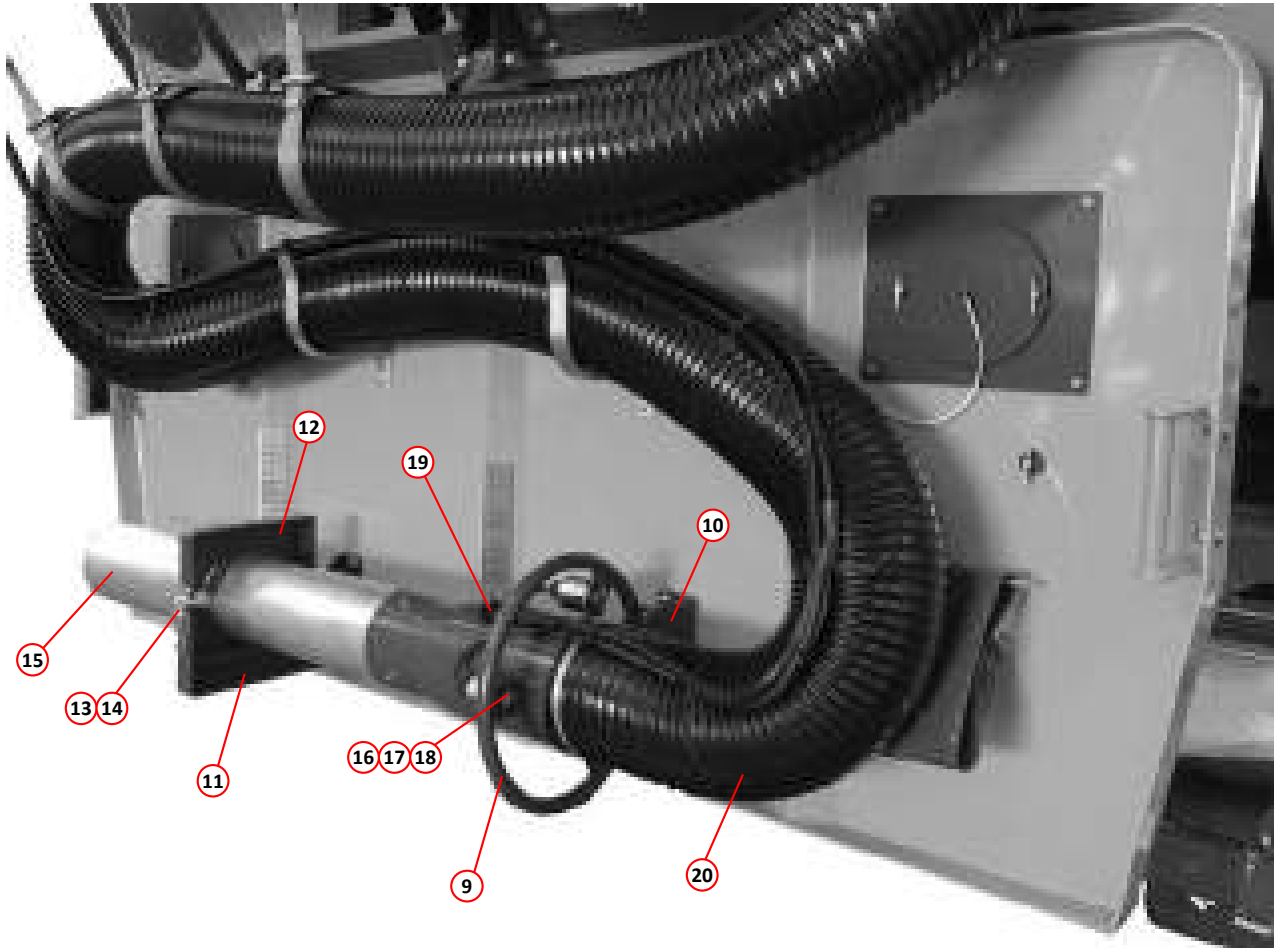
Overhead Boom Assembly

<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Suction Tube Control Yoke - (legacy) - (Option)			
1	035293	1	Rear boom handle
2	034822	1	. Boom mounting cup
3	034823	1	. . Boom mounting lock
4	034821	1	. Boom mounting hook
5	035947	2	. Switch
6	035294	2	. . Switch plate cover
7	035474	2	. . . Cable gland
8	038898	1	. . . Wiring loom

Rear Boom Reduction Handle Suction Tube Control Yoke - (legacy) - (Option)			
9	039129	1	Rear boom handle with reduction tube
10	039134	1	Boom mounting hook
11	039136	1	Boom mounting cup Ø150
12	039137	1	Boom mounting lock Ø150
13	010509	1	OJOP latch
14	021841	1	Toggle latch
15	039139	1	Aluminium suction tube Ø150
16	035947	2	Switch
17	035294	2	Switch plate cover
18	035474	2	Cable gland
19	013360	1	Water jet assembly
20	036062	1	Wander hose Ø180



Suction Tube Control Yoke



Rear Boom Reduction Handle Suction Tube Control Yoke

Suction fan

<i>Assembly/Description</i>	<i>Page</i>
Suction fan - standard speed	348
Suction fan - high speed	350
Suction fan motor	352
Suction fan inlet cone and guard	353

Suction fan - standard speed

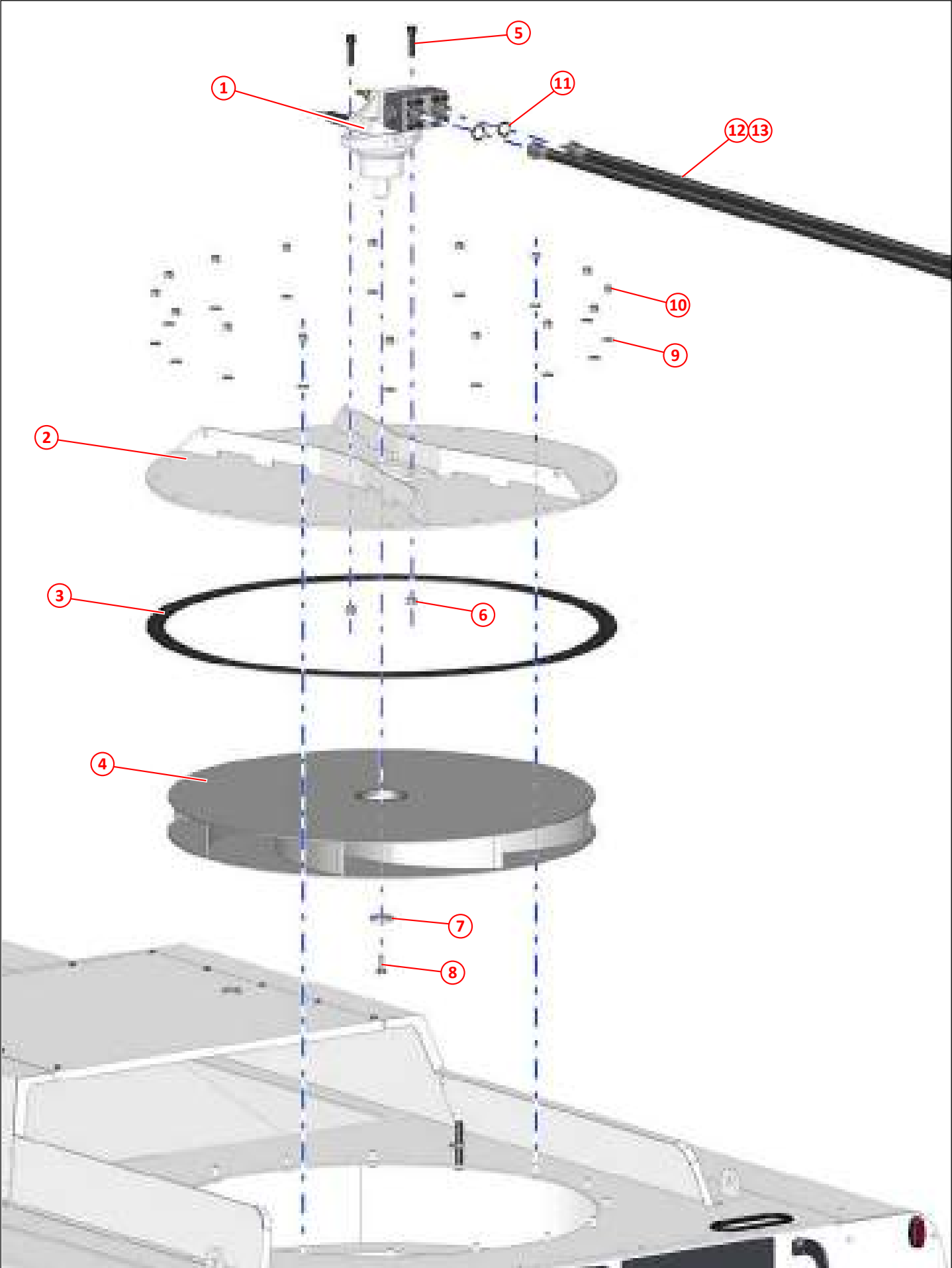


Figure 99: Suction fan - standard speed

Item	Part No	Qty	Description
①	025564	1	Fan motor assembly
②	024679	1	Fan plate
③	010546	1	Sealing strip 3 x 38
④	030651	1	Impeller
⑤	000343	2	Socket cap head bolt M14 x 50, black
⑥	011127	2	Nyloc nut T M14
⑦	044926	1	Washer ø50 x ø12.5 x 8, stainless steel
⑧	011052	1	Setscrew M12 x 30
⑨	011094	16	Washer M10
⑩	011075	16	Nyloc nut T M10
⑪	011155	2	Dowty seal, $\frac{3}{4}$ " BSP
⑫	001150	2	Hose $\frac{5}{8}$ " x 2800 with $\frac{3}{4}$ " BSP straight ends - Merlin and Magnum
⑬	001223	2	Hose $\frac{5}{8}$ " x 2500 with $\frac{3}{4}$ " BSP straight ends - Merlin XP/55

Suction fan - high speed

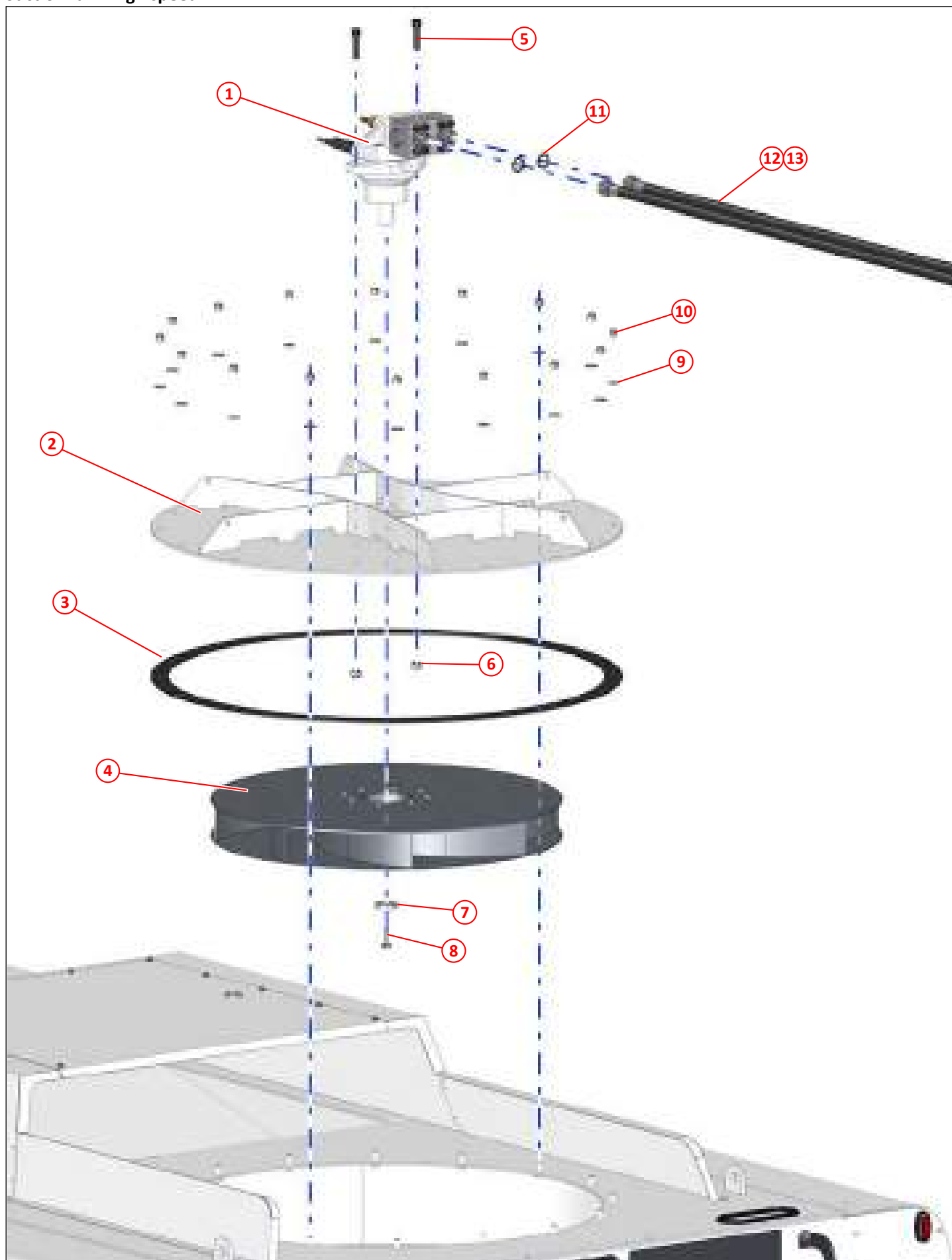
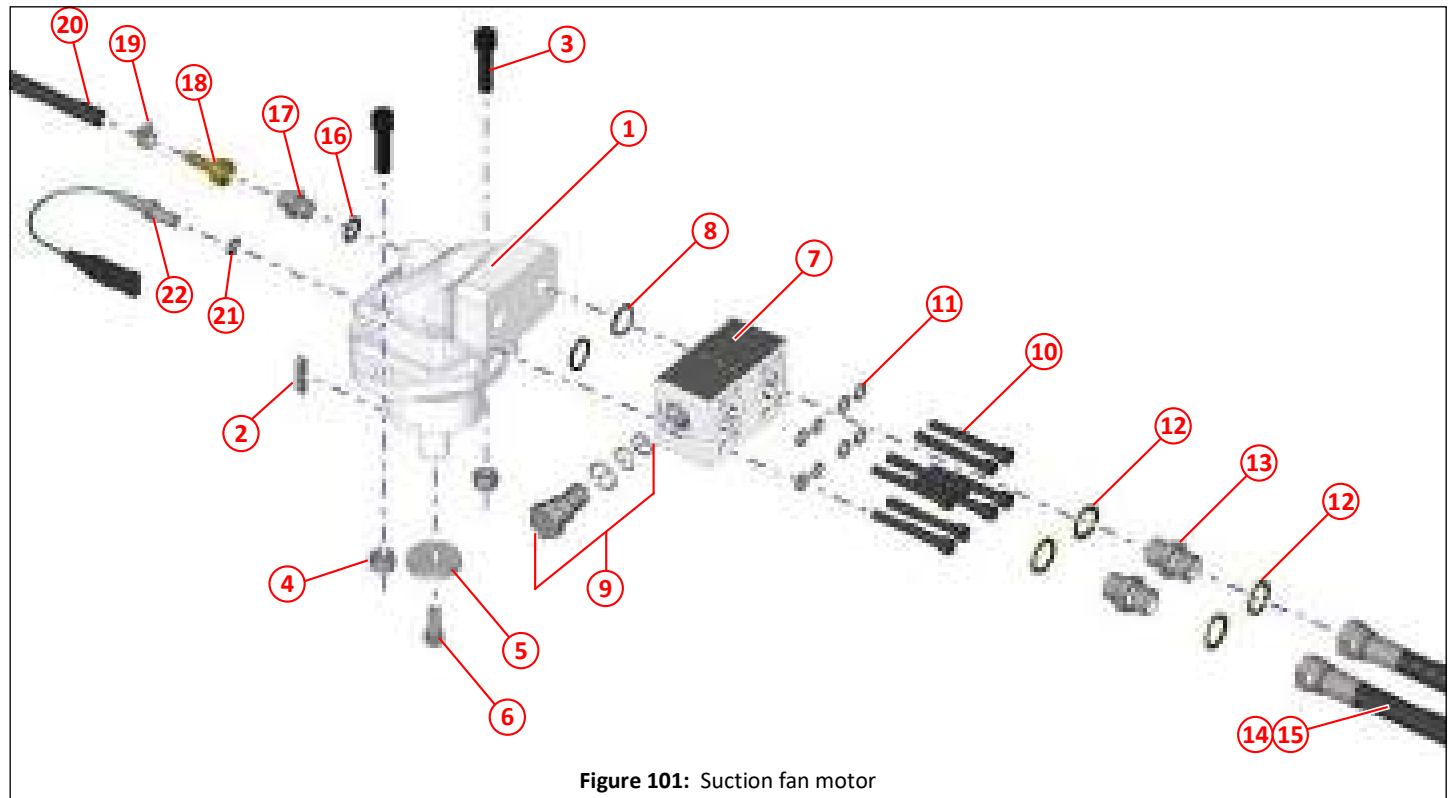


Figure 100: Suction fan - high speed

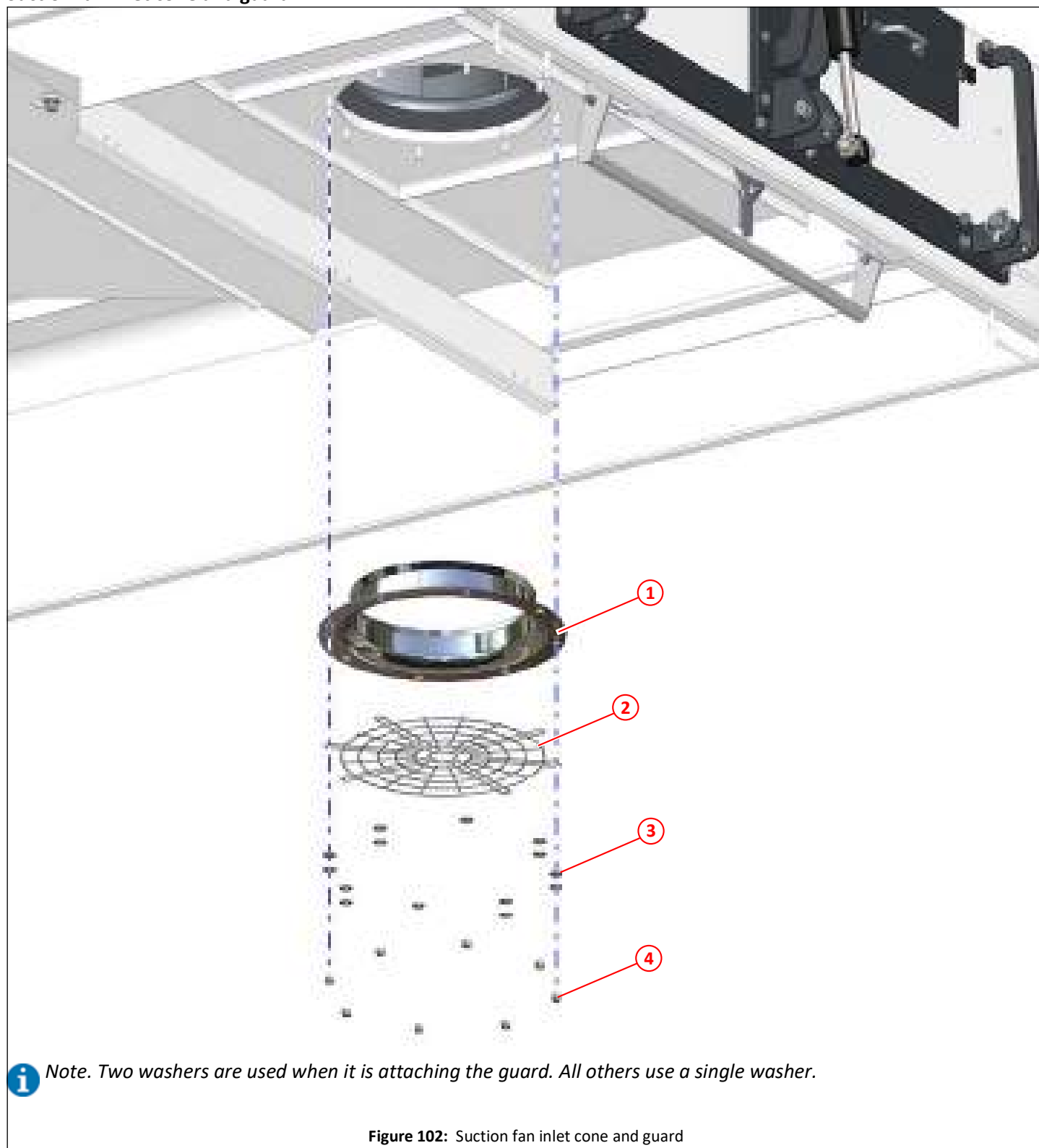
Item	Part No	Qty	Description
①	025564	1	Fan motor assembly
②	041468	1	Fan plate, heavy duty, for high speed fan
③	010546	1	Sealing strip 3 x 38
④	041456	1	Impeller, high speed
⑤	000343	2	Socket cap head bolt M14 x 50, black
⑥	011127	2	Nyloc nut T M14
⑦	044926	1	Washer $\varnothing 50 \times \varnothing 12.5 \times 8$, stainless steel
⑧	011052	1	Setscrew M12 x 30
⑨	011094	16	Washer M10
⑩	011075	16	Nyloc nut T M10
⑪	011155	2	Dowty seal, $\frac{3}{4}$ " BSP
⑫	001150	2	Hose $\frac{5}{8}$ " x 2800 with $\frac{3}{4}$ " BSP straight ends - Merlin and Magnum
⑬	001223	2	Hose $\frac{5}{8}$ " x 2500 with $\frac{3}{4}$ " BSP straight ends - Merlin XP/55

Suction fan motor



Item	Part No	Qty	Description
①	025564	1	Motor F12-030-MF-CH-K-000-000-P
②	013292	1	Key for item ①
③	000343	2	Socket cap head bolt M14 x 50, black
④	011127	2	Nyloc nut T M14
⑤	044926	1	Washer $\varnothing 50 \times \varnothing 12.5 \times 8$, stainless steel
⑥	011052	1	Setscrew M12 x 30
⑦	041673 *	1	Manifold
⑧	041634 *	2	O-ring
⑨	011094 *	1	Check valve HCV12-20, includes seals
⑩	000048	8	Socket cap head screw M10 x 80
⑪	011095	8	Washer, spring, M10
⑫	011155	4	Dowty seal, $\frac{3}{4}$ " BSP
⑬	011161	2	Adapter, $\frac{3}{4}$ " BSP
⑭	001150	2	Hose $\frac{5}{8}$ " x 2800 with $\frac{3}{4}$ " BSP straight ends - Merlin and Magnum
⑮	001223	2	Hose $\frac{5}{8}$ " x 2500 with $\frac{3}{4}$ " BSP straight ends - Merlin XP/55
⑯	011247	1	Dowty seal, M18
⑰	011248	1	Adapter, M18 x $\frac{3}{8}$ " BSP
⑱	010921	1	Adapter, $\frac{3}{8}$ " BSP x $\frac{3}{8}$ " hose, complete with nut
⑲	010516	1	Jubilee clip No MOO [11-16]
⑳	010958	1	Hose, $\frac{3}{8}$ "
㉑	011215	1	Dowty seal, M12
㉒	0254184	1	Speed sensor
	* 041564	1	Anti-cavitation valve assembly, includes items ⑦, ⑧ and ⑨

Suction fan inlet cone and guard



Item	Part No	Qty	Description	
①	032357	1	Inlet cone, stainless steel	
②	039674	1	Fan guard	
③	000264	14	Washer, M8, stainless steel	
④	000263	8	Nyloc nut, M8, stainless steel	

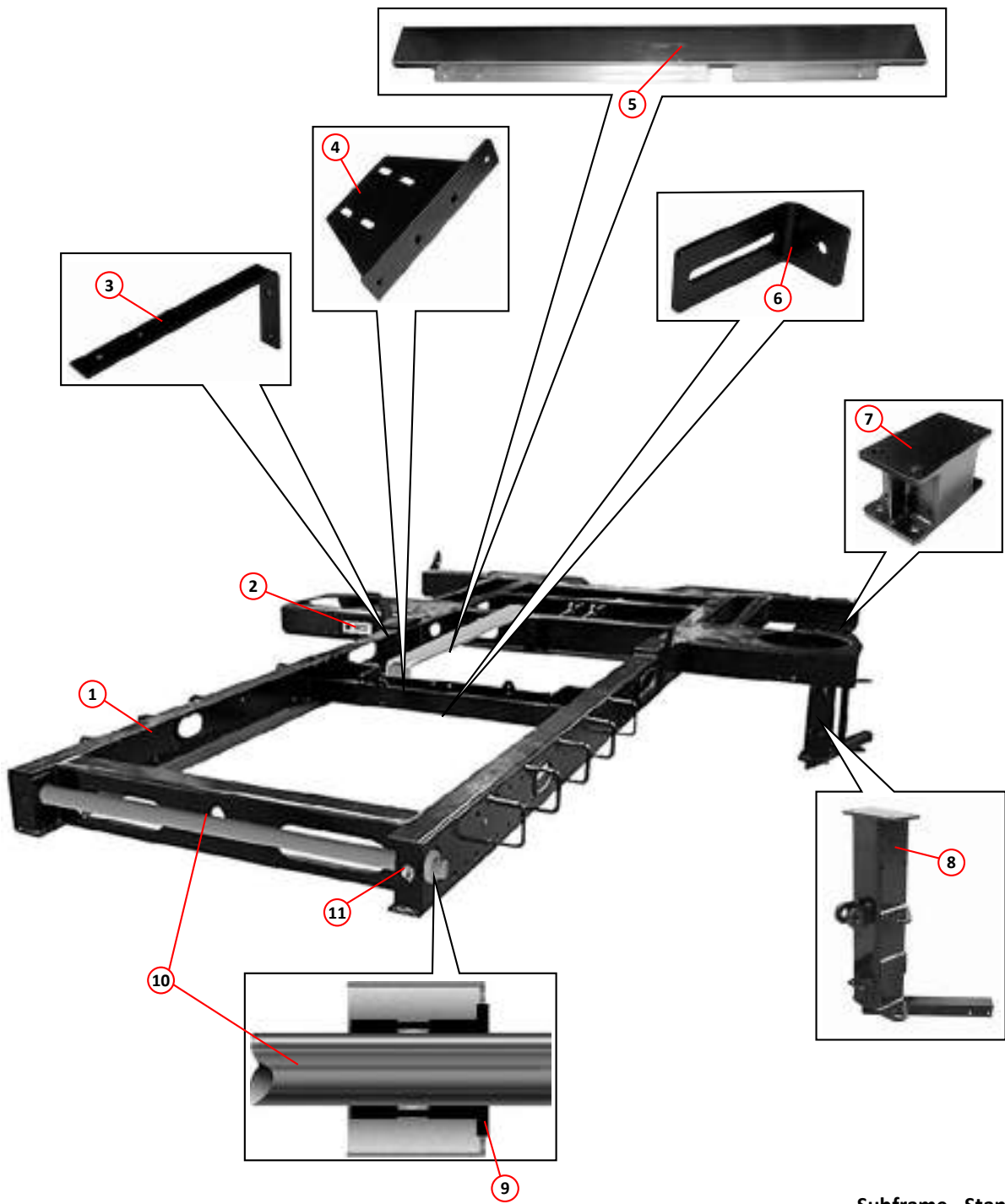
Subframe, Hopper and Related Equipment

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Item	Part Number	Quantity	Description
Subframe Standard Parts			
1	024978	1	Subframe (Merlin)
NI	024246	1	Subframe (Magnum)
NI	032224	1	Subframe (Merlin XP)
2	021716	1	. Serial number & CE mark plate
3	032979	1	. Support, pipe, front (Merlin XP)
NI	026239	1	. Support, pipe, front
	011087	2	. . Set screw, M6 x 25mm
	011090	2	. . Washer, M6
	011071	2	. . Nut, M6, Nyloc
4	028010	1	. Support, pipe cover
	011067	2	. . Set screw, M6 x 20mm
	011099	2	. . Washer, repair, $\varnothing 1 \frac{1}{4}$ ID
	011071	2	. . Nut, M6, Nyloc
5	028127	1	. Pipe cover (Merlin)
NI	028009	1	. Pipe cover (Magnum)
NI	040681	1	. Pipe cover (Magnum with ratchet hopper prop)
6	030487	1	. Support, pipe, rear
	011067	1	. . Set screw, M6 x 20mm
	011071	1	. . Washer, M6
	011071	1	. . Nut, M6, Nyloc
7	031381 *	AR	. Stub, subframe leg, 100mm long (Merlin)
NI	031355 *	AR	. Stub, subframe leg, 120mm long (Merlin)
NI	030316 *	AR	. Stub, subframe leg, 180mm long (Merlin)
NI	031693 *	AR	. Stub, subframe leg, 220mm long (Merlin)
NI	031415 *	AR	. Stub, subframe leg, 95mm long
NI	031416 *	AR	. Stub, subframe leg, 165mm long
	011052	4	. . Set screw, M12 x 30mm (Per stub)
	011077	4	. . Nut, M12, Nyloc, (Per stub)
8	027133 *	1	. Subframe leg, RH, (A) (Merlin)
NI	027132 *	1	. Subframe leg, LH, (B) (Merlin)
NI	027134 *	1	. Subframe leg, LH, (C) (Merlin)
NI	027134 *	1	. Subframe leg, RH, (D) (Merlin)
	000047	4	. . Bolt, M12 x 140mm (Per leg)
	011077	4	. . Nut, M12, Nyloc (Per leg)
NI	024247 *	1	. Subframe leg, LH, (J) (Magnum)
NI	024248 *	1	. Subframe leg, RH, (K) (Magnum)
NI	027753 *	1	. Subframe leg, LH, Hi-lift, (P) (Magnum)
NI	027754 *	1	. Subframe leg, RH, Hi-lift, (Q) (Magnum)
NI	030152 *	1	. Subframe leg, LH, (R) (Magnum)
NI	030153 *	1	. Subframe leg, RH, (S) (Magnum)
NI	030924 *	1	. Subframe leg, LH, (T) (Magnum)
NI	030925 *	1	. Subframe leg, RH, (U) (Magnum)
NI	030154 *	1	. Subframe leg, LH (Magnum) (8000/8500 only)
NI	030155 *	1	. Subframe leg, RH (Magnum) (8000/8500 only)
	011052	4	. . Set screw, M12 x 30mm (Magnum)
	011077	4	. . Nut, M12, Nyloc (Magnum)
9	020336	2	. Bush, hopper hinge pin
10	013065	1	. . Hopper hinge pin
	000096	2	. . . Screw, socket cap head, M8 x 40mm
	011073	2	. . . Nut, M8, Nyloc
11	010901	2	. Grease point, $\frac{1}{8}$ BSP x 90°

Notes:-

- * The type of the subframe/stub and leg are dependent on many factors. Please contact the Scarab Parts Department quoting your machine serial number before ordering any parts.

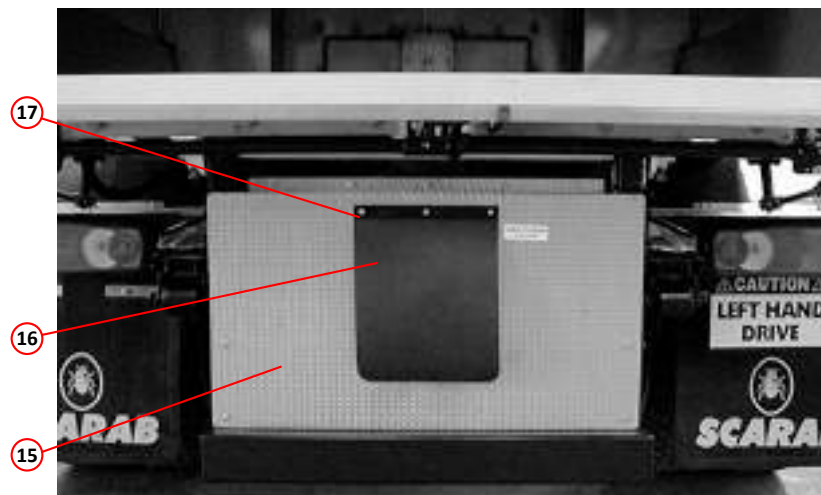
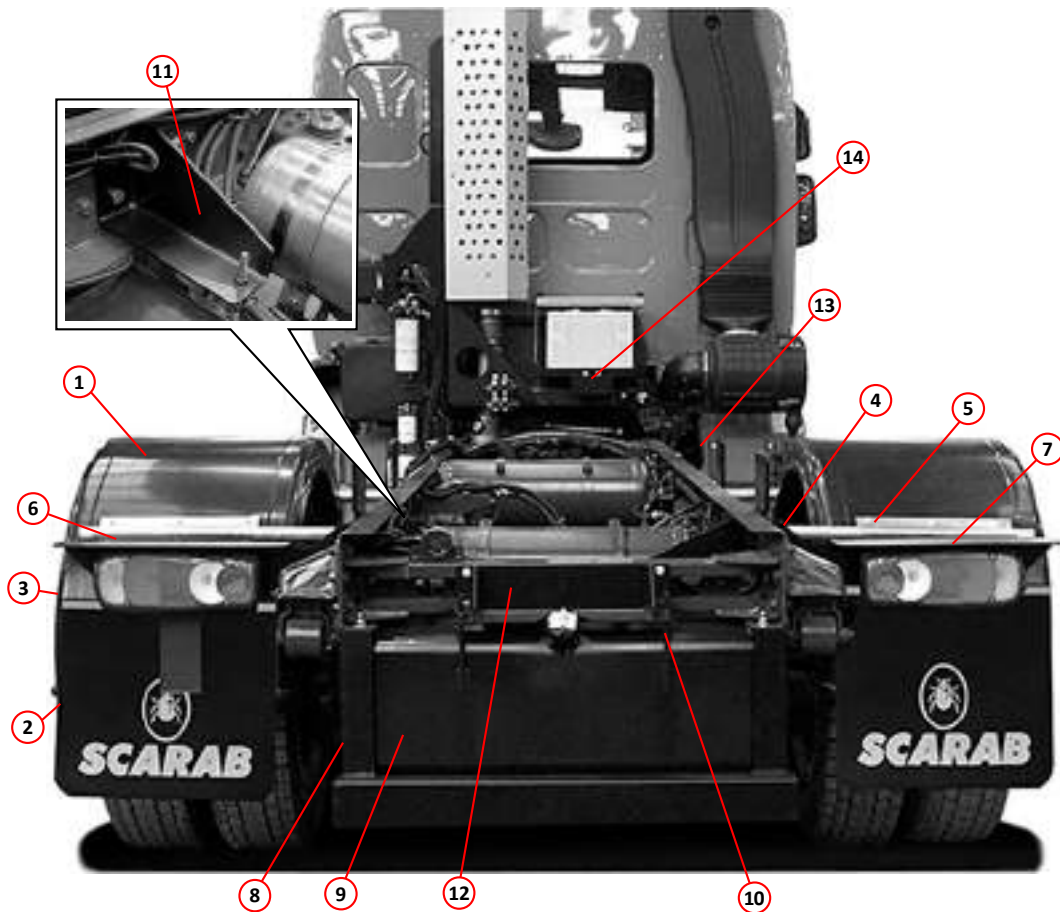


Subframe - Standard Parts

Item	Part Number	Quantity	Description
Subframe - Additional Standard Scarab Parts - Fitted to Chassis			
1	*	1	Mudguard (Per side)
2	024992	1	. Mud flap (Per side)
NI	030140	1	. Mud flap, wide (Per side)
3	024993	1	. . Clamp, mud flap (Per flap)
NI	030187	1	. . Clamp, mud flap, wide (Per flap)
	011011	5	. . . Set screw, M8 x 25mm (Per clamp)
	011073	5	. . . Nut, M8, Nyloc (Per clamp)
4	013403	2	. Bracket, mudguard, straight (Per mudguard)
NI	020836	2	. Bracket, mudguard, cranked (Per mudguard)
	011032	3	. . Set screw, M10 x 30mm (Per bracket)
	011075	3	. . Nut, M10, Nyloc (Per bracket)
5	013404	2	. . Stay, mudguard (Per mudguard)
NI	012954	2	. . Stay backing plate (Per mudguard)
	011010	6	. . . Set screw, M8 x 20mm (Per stay)
	011073	6	. . . Nut, M8, Nyloc (Per stay)
6	*	1	. Bracket, rear lights LH
7	*	1	. Bracket, rear lights RH
	011083	2	. . Set screw, M12 x 1.25 pitch x 35mm
	011086	2	. . Nut, M12 x 1.25 pitch (Per bracket)
NI	036910	1	Loom, rear lights Page 554
8	*	1	Bracket, rear under-run
9	*	1	Fuel tank
10	*	2	. Strap, fuel tank
	011075	4	. . Nut, M10, Nyloc
11	*	1	. Bracket, front, fuel tank, LH
NI	*	1	. Bracket, front, fuel tank, RH
12	*	1	. Bracket, rear, fuel tank
13	*	AR	Bracket, connecting, chassis/subframe
14	*	1	Support frame, Battery
15	*	1	Rear cover, fuel tank
16	026709	1	Cover, Rubber, fuel filler, narrow
17	014741	1	. Clamp plate, fuel filler cover, narrow
	011087	3	. . Set screw, M6 x 25mm
	011071	3	. . Nut, M6, Nyloc
NI	032484	1	Cover, Rubber, fuel filler, wide
NI	032483	1	. Clamp plate, fuel filler cover, wide
	011087	3	. . Set screw, M6 x 25mm
	011071	3	. . Nut, M6, Nyloc
NI	*	1	. Fuel tank sender
NI	*	1	. . Gasket, fuel tank sender
NI	*	1	. Fuel filler cap

Notes:-

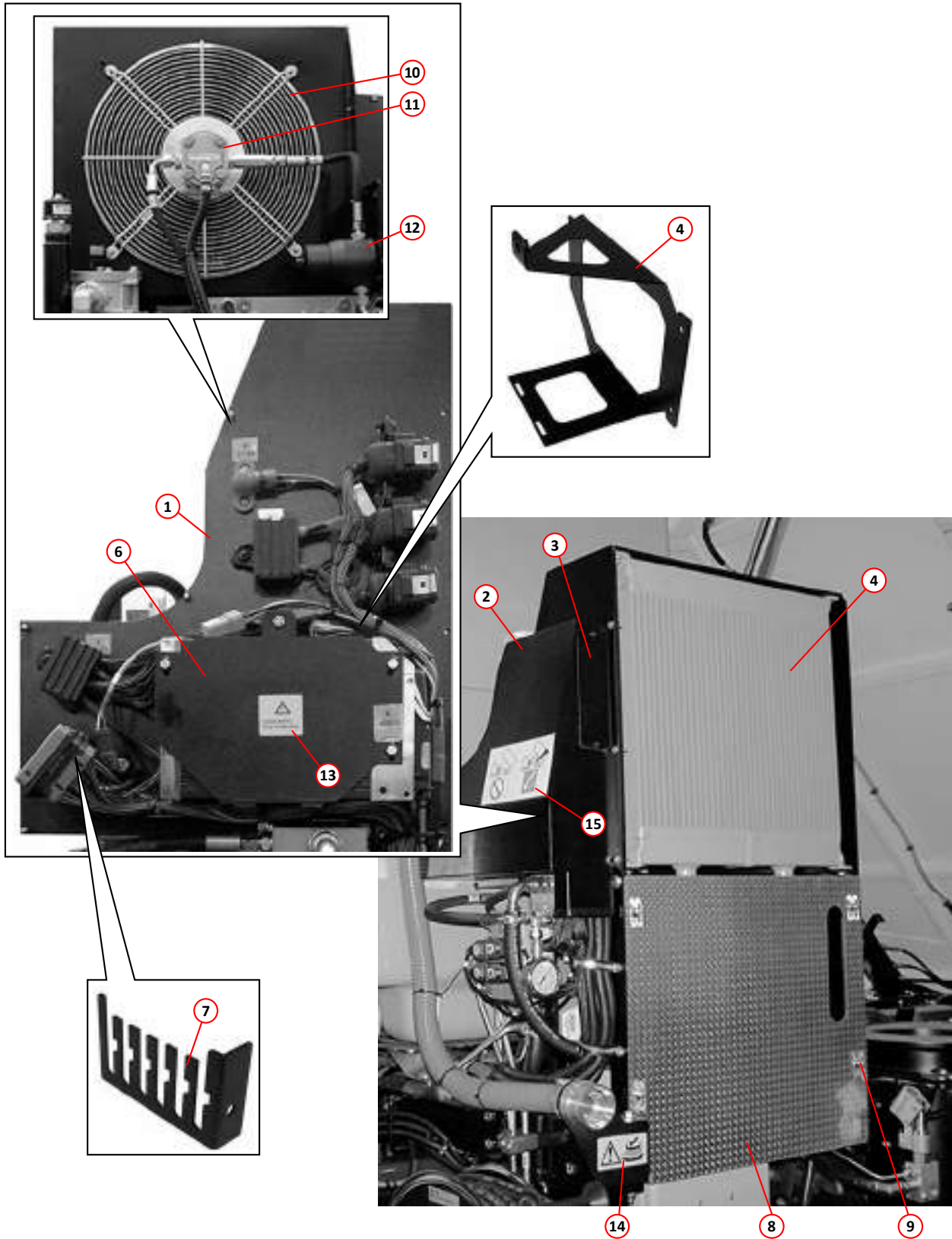
- * These items are chassis specific. When ordering, contact Scarab Parts Department, quoting machine serial number and chassis type.



i The photographs shown above are of a DAF chassis, other chassis configurations may differ.

Additional Standard Scarab Parts Fitted to Chassis

Item	Part Number	Quantity	Description
Oil Cooler and Hydraulics Gantry			
1	037086	1	Oil cooler frame Page 458
	011407	2	. . Bolt, M10 x 120mm
	011031	2	. . Set screw, M10 x 25mm
	011075	4	. . Nut, M10, Nyloc
NI	024838	1	. . Oil cooler leg
	011407	2	. . Bolt, M10 x 120mm
	011031	1	. . Set screw, M10 x 25mm
	011075	3	. . Nut, M10, Nyloc
2	037096	1	. . Node cover
	000402	7	. . Screw, Pozidrive, M5 x 20mm
	000155	7	. . Nut, M5, Nyloc
3	037097	1	. . Fuse cover
4	031732	1	. . Oil cooler Page 460
5	037203	1	. . Bracket, node carrier
	000155	3	. . Nut, M5, Nyloc
6	037204	1	. . Cover, node carrier
	000097	4	. . Set screw, M5 x 12mm
	011067	1	. . Set screw, M6 x 20mm
	011071	1	. . Nut, M6, Nyloc
7	037198	1	. . Bracket, splice saver
	011010	1	. . Set screw, M8 x 20mm
8	025383	1	. . Cover, hydraulic tank & valves
9	012253	4	. . Antiluce, Small
10	020883	1	. . Bracket, fan mounting
	000020	4	. . Set screw, M6 x 30mm
	011071	4	. . Nut, M6, Nyloc
	011099	4	. . Washer, repair, M6
	023504	4	. . Anti-vibration ring
	023505	4	. . Anti-vibration bush
11	028752	1	. . Motor, hydraulic, cooler fan Page 460
NI		1	. . Fan, oil cooler
12	025103	1	. . Filter, hydraulic, high pressure Page 502
NI	036797	2	. . Controller CR0020 Page 554
13	036170	1	. . Disconnect battery, caution label Page 664
14	022383	1	. . Brush rotating, warning label Page 664
15	022384	1	. . Hopper prop deployment, warning label Page 664

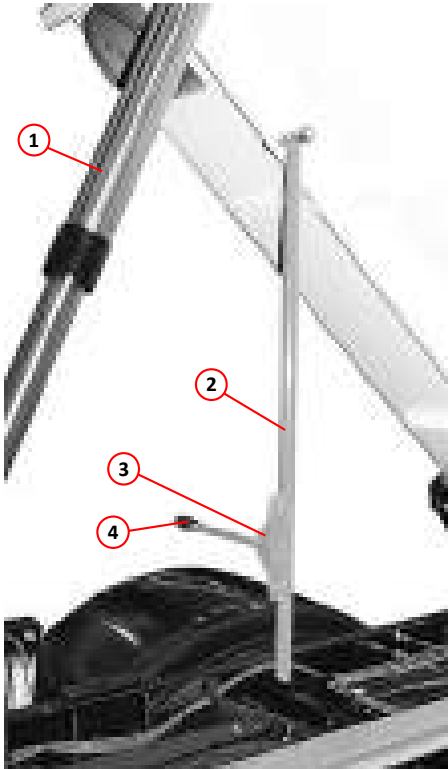


Oil Cooler and Hydraulics Gantry

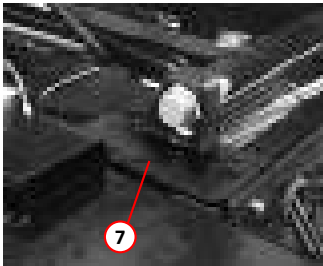
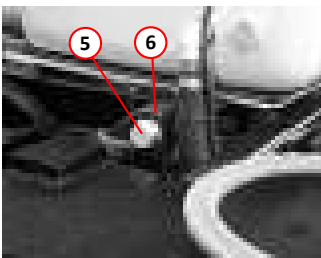
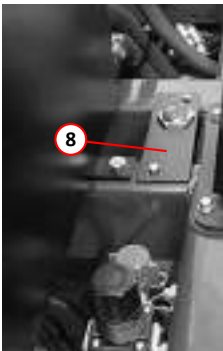
Item	Part Number	Quantity	Description
			Manual Hopper Safety Prop
1	024249	1	Hopper lift ram, dual stage Page 512
NI	039677	1	Hopper Prop, (Merlin)
2	039676	1	Hopper Prop, (Magnum)
	011083	1	. Bolt, 1 „ UNF x 6
	011062	1	. . Nut, 1 „ UNF, Nyloc
3	039675	1	. Hopper prop handle
	011032	2	. . Set screw, M10 x 30mm
	011075	2	. . . Nut, M10, Nyloc
4	039680	1	. . Hopper prop handle grip

Item	Part Number	Quantity	Description
			Hopper Raised Sensor
5	032627	1	. Sensor, 'HOPPER-RAISED' Page 556
6	039659	1	. . Bracket, hopper raised sensor (Merlin/Merlin XP)
7	039673	1	. . Bracket, hopper raised sensor (Magnum/Magnum+)
8	032908	1	. . Bracket, hopper raised sensor (vertical) (Merlin)
NI	032909	1	. . Bracket, hopper raised sensor (vertical) (Magnum)
	011067	2	. . . Set screw, M6 x 20mm
	011091	2	 Washer, spring, M6
	011071	2	 Nut, M6, Nyloc

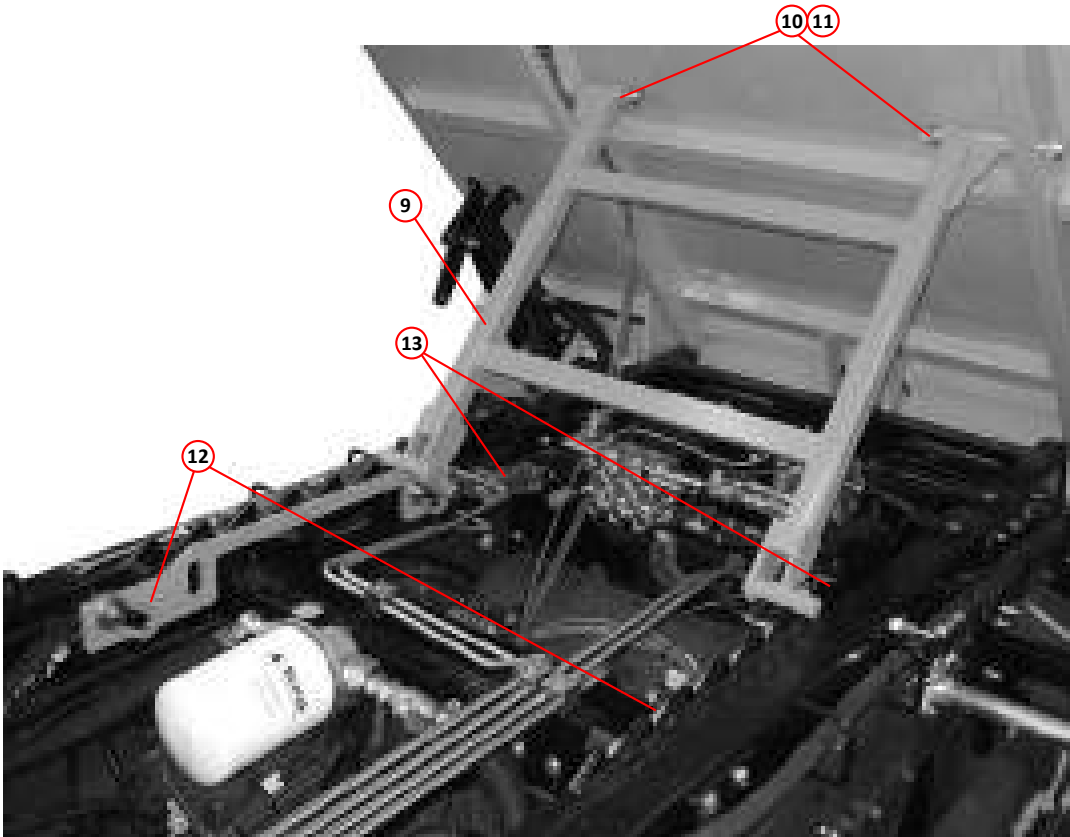
Item	Part Number	Quantity	Description
			Ratchet Hopper Prop
9	039901	1	Hopper Prop
10	040134	2	. Prop hinge pin
11	013053	2	. . Linch pin
12	039899	2	Lifting plate
	011094	4	. Washer, M10 special
	011075	2	. . Nut, M10, Nyloc
13	040456	2	Cylinder, pneumatic, 32 x 50 spring return Page 548
	011407	2	. Bolt, M10 x 120mm
	011094	2	. . Washer, M10
	011075	2	. . . Nut, M10, Nyloc



Manual Hopper Prop

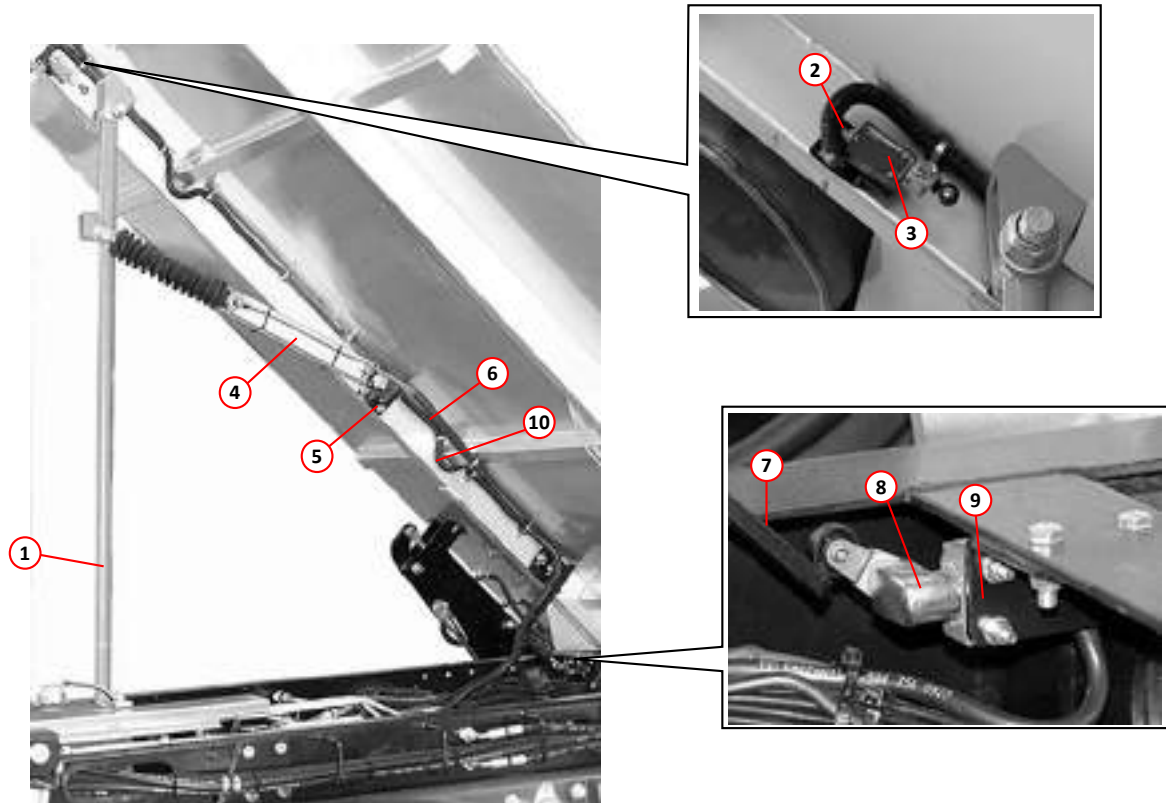


Hopper Raised Sensor



Ratchet Hopper Prop

Item	Part Number	Quantity	Description
Automatic Hopper Safety Prop Assembly - (Option)			
1	030380	1	Hopper Prop (MERLIN)
1	030099	1	Hopper Prop (MAGNUM)
	000316	1	. Bolt, 1" UNF x 7
	011062	1	. Nut, 1" UNF, Nyloc
2	030379	1	. Mounting bracket, proximity switch (MERLIN)
NI	030226	1	. Mounting, bracket, proximity switch (MAGNUM)
	000191	2	. . Screw, socket cap head, M4 x 25mm
	000134	2	. . Nut, M4, Nyloc
3	030158	1	. . Switch, proximity, upper
4	030156	1	. Cylinder, pneumatic, 40 x 250 Page 544
5	030377	1	. . Ram mounting bracket, catch pocket (MERLIN)
NI	030101	1	. . Ram mounting bracket, catch pocket (MAGNUM)
	011415	2	. . . Bolt, M8 x 80mm
	011073	2	. . . Nut, M8, Nyloc
6	024650	AR	. . Air pipe
7	030378	1	. Proximity actuator bracket (MERLIN)
NI	030174	1	. Proximity actuator bracket (MAGNUM)
	000221	2	. . Bolt, M6 x 80mm
	011071	2	. . Nut, M6, Nyloc
8	030158	1	. Switch, proximity, lower Page 556
9	030159	1	. . Mounting bracket, proximity switch
	011067	2	. . . Set screw, M6 x 20mm
	011071	2	. . . Nut, M6, Nyloc
	000191	2	. . . Screw, socket cap head, M4 x 25mm
	000134	2	. . . Nut, M4, Nyloc
10	036920	1	. Loom, hopper, auto prop Page 554



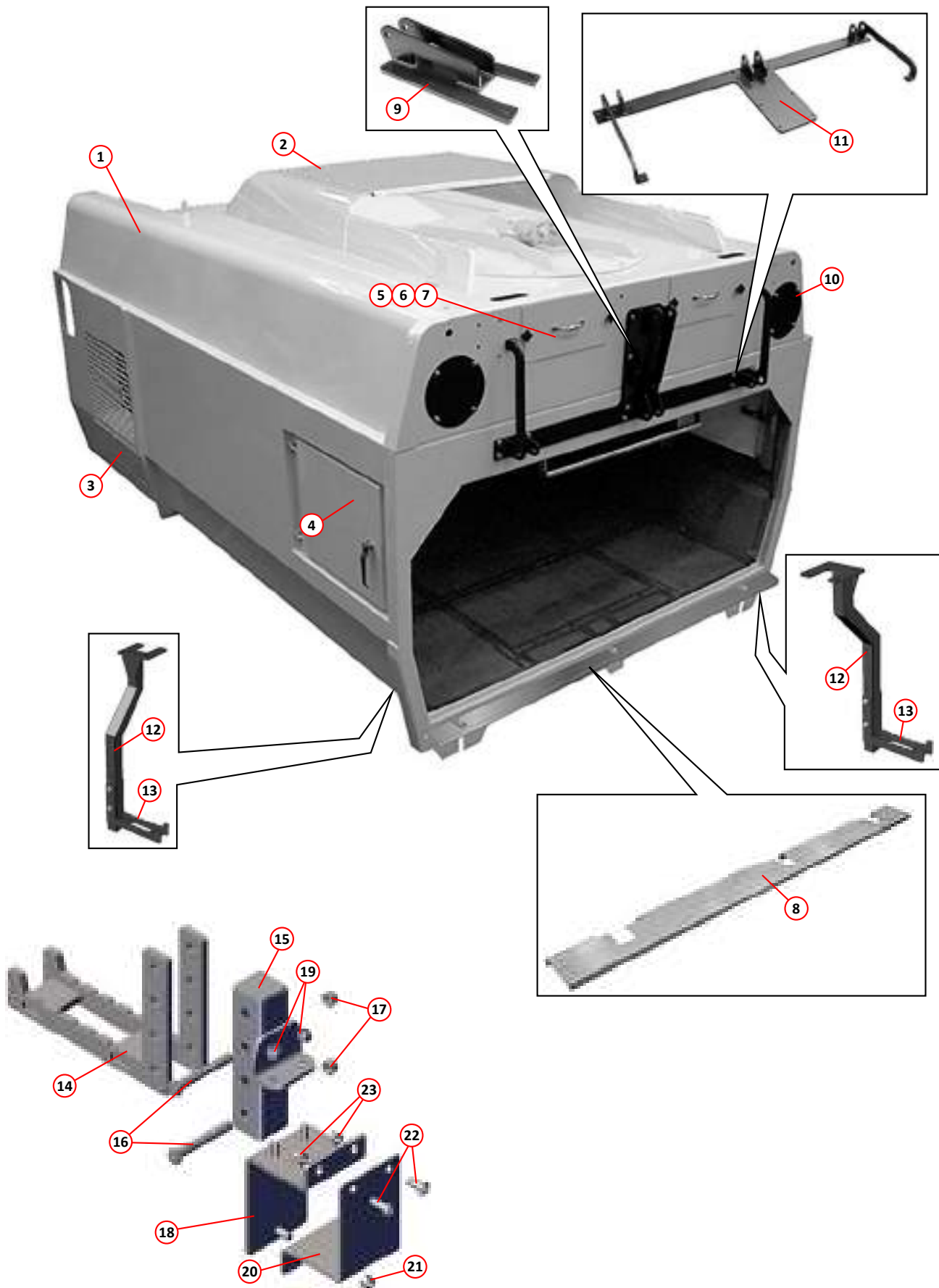
i Please note that pneumatic cylinders are no longer fitted with bellows.

Automatic Hopper Prop Assembly

Item	Part Number	Quantity	Description
Hopper External Fittings			
1		1	Hopper
2	035797	1	. Cover, hopper
	000254	13	. . Washer, M6, stainless steel
	000250	13	. . . Set screw, M6 x 16, stainless steel
3	027755	1	. Access cover, valve block
	013645	AR	. . Seal strip
	011087	6	. . Set screw, M6 x 25mm
	011091	6	. . Washer, spring, M6
4	036363	2	. Door, side-loading hatch Page 368
5	030728	2	. Cover plate, fan housing
	010546	AR	. . Seal strip
6	000248	4	. . Plastic Knob
7	010502	2	. . Handle
8	030210	1	. Chute, discharge. (Merlin)
NI	028937	1	. Chute, discharge, (Magnum/8000/8500)
	000256	8	. . Set screw, M8 x 20, stainless steel
	000263	8	. . Nut, M8 Nyloc, stainless steel
	000270	16	. . Washer, M8, stainless steel
9	024346	1	. Mounting, adjustable, rear door ram Page 382
NI	025660	1	. Mounting, adjustable, rear door ram, (8000/8500) Page 382
	011032	10	. . Set screw, M10 x 30
	011033	2	. . Set screw, M10 x 35
	011074	12	. . Washer, M10
	011075	6	. . Nut, M10, Nyloc
10	025486	2	. Cover, wander boom aperture (1 only if rear boom fitted)
	011073	4	. . Nut, M8, Nyloc
	011092	4	. . Washer, M8
11	024345	1	. Plate, hinge, rear door Page 382
NI	025661	1	. Plate, hinge, rear door, (8000/8500) Page 382
	011034	6	. . Set screw, M10 x 40
	011075	6	. . Nut, M10, Nyloc
	011074	6	. . Washer, M10
	011014	2	. . Set screw, M8 x 40
	011073	2	. . Nut, M8, Nyloc
	011092	4	. . Washer, M8
Side Loading Hatch Access Steps *			
Hopper Mounted			
12		1	. Rear step mount
13	041290	1	. . Rear access step
	000139	2	. . . Bolt, M12 x 90
	011077	2	. . . Nut, M12, Nyloc
Rear Under Run/Rear Bumper Mounted (DAF 55 SHOWN)			
14	040153	1	Rear access step
15	041290	1	Mounting bracket rear access step
16	000139	2	Bolt, M12 x 90
17	011077	2	Nut, M12, Nyloc
18	042507	1	Clamp bracket
19	011075	2	Nut, M10, Nyloc
20	042508	1	Clamp plate
21	011075	1	Nut, M10, Nyloc
22	000344	2	Socket button head, M25 x 10, stainless steel
23	011075	2	Nut, M10, Nyloc

Notes:-

* Please contact Scarab Parts Department regarding these steps due to the variety of mounting options on differing chassis.

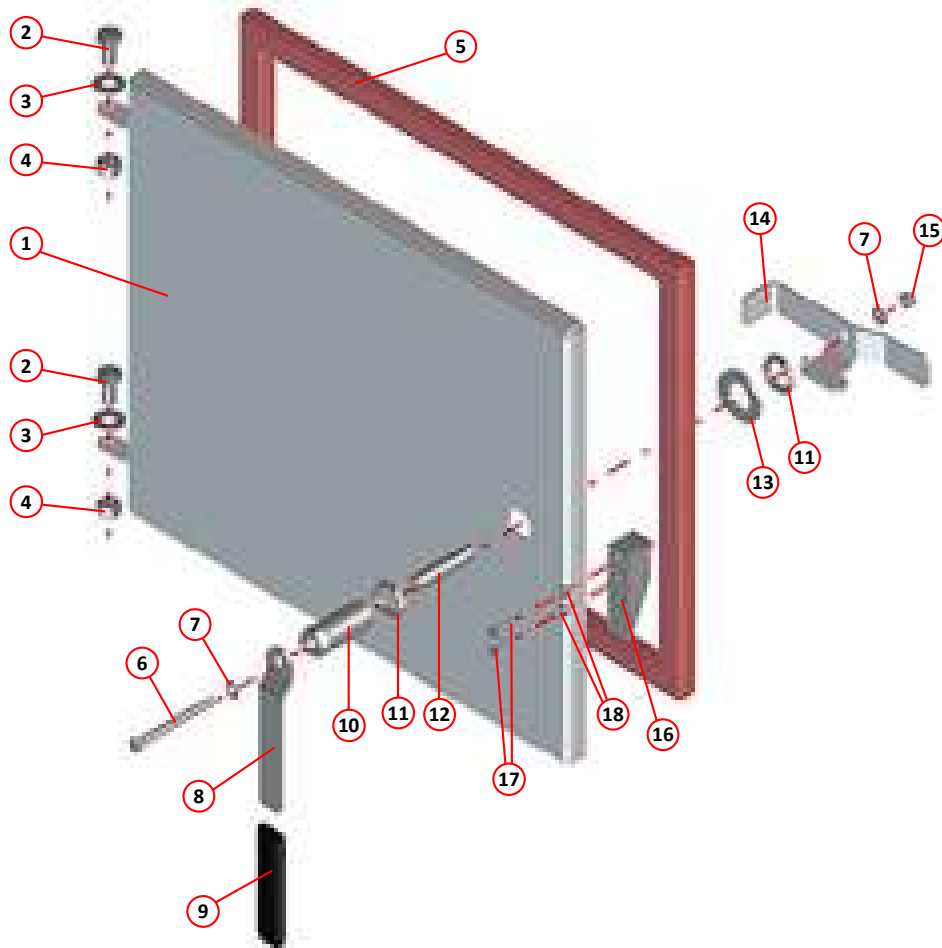


i Many variations of hopper exist therefore it is advisable to contact Scarab Parts Department, quoting the machines serial number when ordering associated replacement parts.

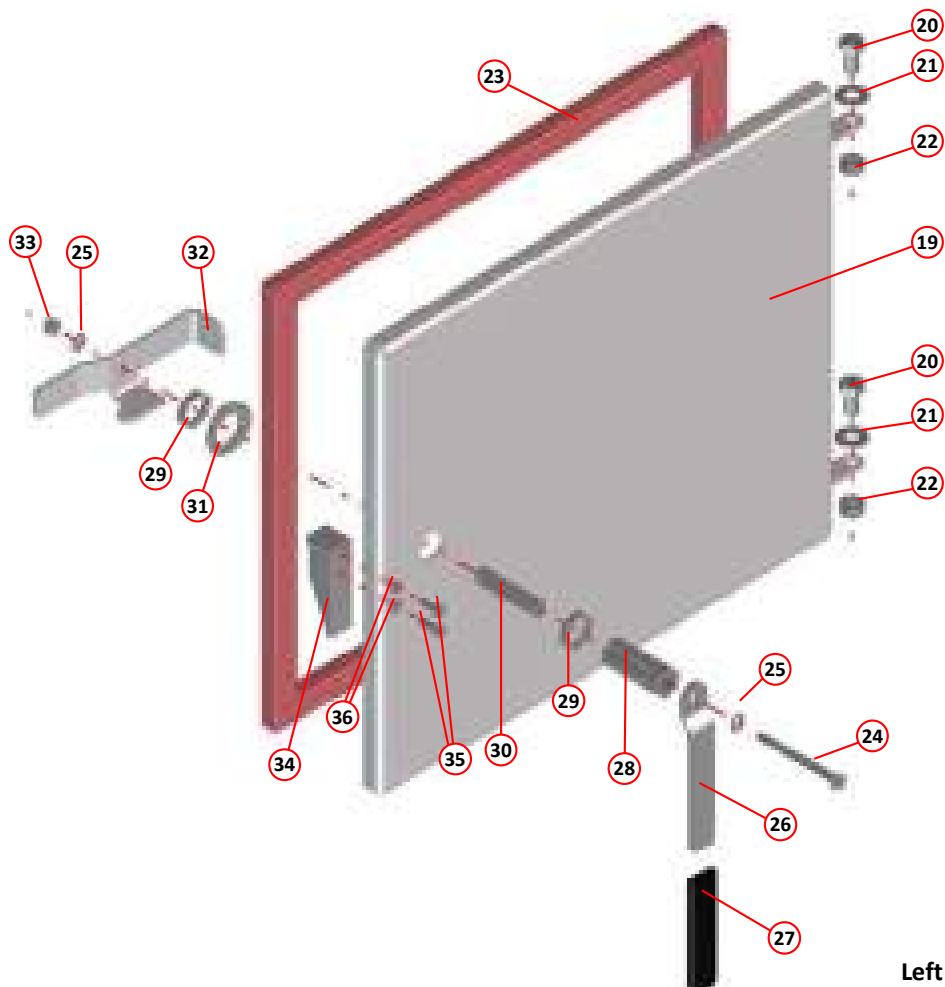
Hopper External Fittings

Item	Part Number	Quantity	Description
Hopper Left Side Loading Hatch			
1	036363	1	Side access door Page 366
2	000273	2	Set screw, M12 x 25mm, stainless steel
3	000277	2	Washer, M12, stainless steel
4	000275	2	Nut, M12, Nyloc, stainless steel
5	013599	1	Seal, side door
6	011019	1	Bolt, M8 x 90mm, stainless steel
7	011092	2	Washer, M8
8	027933	1	Handle
9	040032	1	Door handle sleeve
10	027935	1	Bearing, door catch
11	027937	2	Back nut, $\frac{3}{4}$ " BSP
12	027934	1	Spindle, door catch
13	000121	1	Washer, M27
14	040033	2	Door catch left hand
15	011073	1	Nut, M8, Nyloc
16	027932	1	Striker (located inside of hopper)
17	000252	2	Set screw, M6 x 20mm, stainless steel
18	000254	2	Washer, M6, stainless steel

Hopper Right Side Loading Hatch			
19	036363	1	Side access door Page 366
20	000273	2	Set screw, M12 x 25mm, stainless steel
21	000277	2	Washer, M12, stainless steel
22	000275	2	Nut, M12, Nyloc, stainless steel
23	013599	1	Seal, side door
24	011019	1	Bolt, M8 x 90mm, stainless steel
25	011092	2	Washer, M8
26	027933	1	Handle
27	040032	1	Door handle sleeve
28	027935	1	Bearing, door catch
29	027937	2	Back nut, $\frac{3}{4}$ " BSP
30	027934	1	Spindle, door catch
31	000121	1	Washer, M27
32	040034	2	Door catch right hand
33	011073	1	Nut, M8, Nyloc
34	027932	1	Striker (located inside of hopper)
35	000252	2	Set screw, M6 x 20mm, stainless steel
36	000254	2	Washer, M6, stainless steel



Left Side Loading Hatch

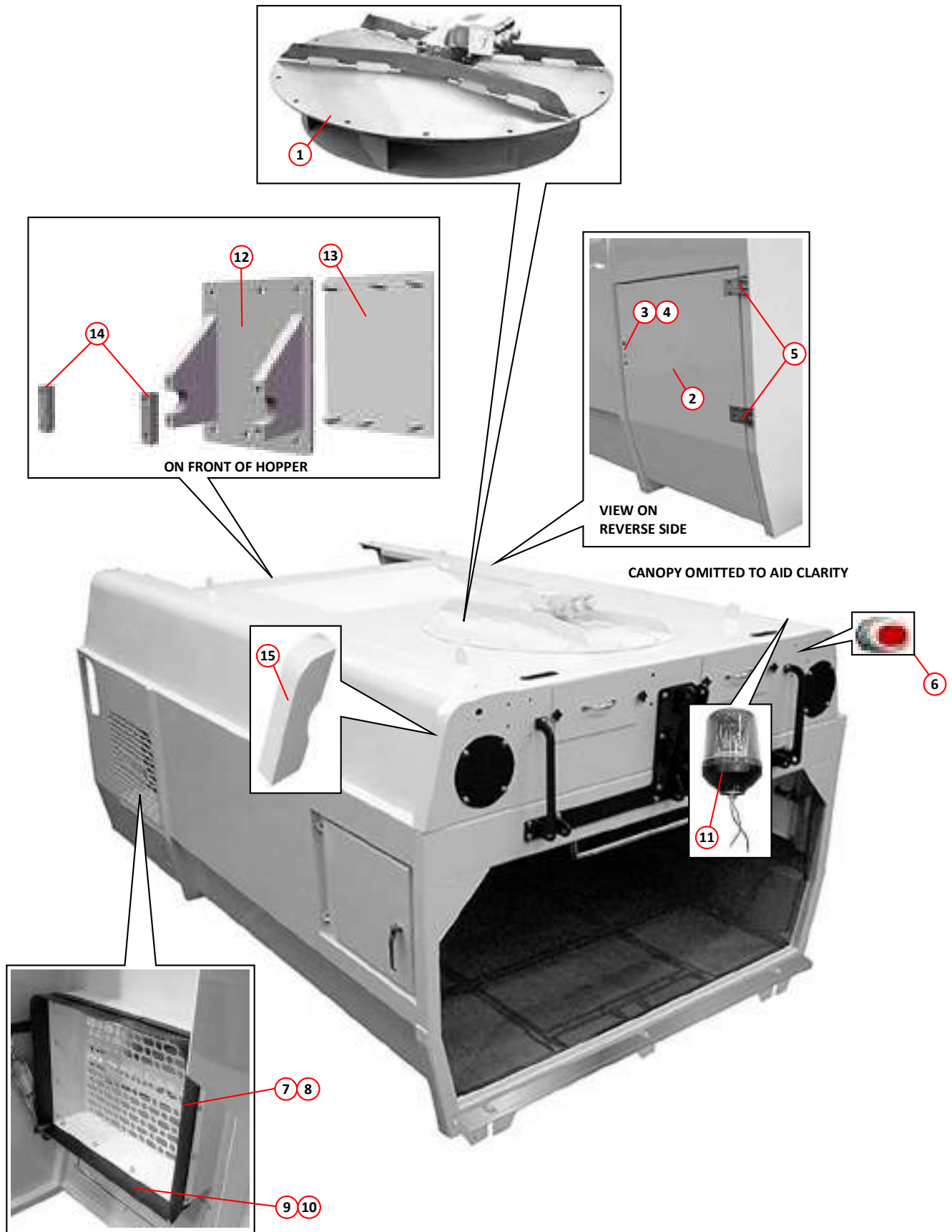


Left Side Loading Hatch

Item	Part Number	Quantity	Description	
Hopper External Fittings - Continued				
1		1	Suction fan assembly	Page 386
	011075	16	. . Nut, M10, Nyloc	
	011074	16	. . Washer, M10	
2	025828	1	Locker door (Merlin)	
NI	032228	1	Locker door (Merlin XP)	
3	013072	1	. . Door lock	
4	013073	1	. . Spacer	
	000284	2	. . Set screw, M6 x 55mm	
	011071	2	. . Nut, M6, Nyloc	
5	011654	2	. . Hinge	
	000517	2	. . Countersunk screw, M6 x 55mm	
	000250	2	. . Set screw, M6 x 16mm	
	011071	4	. . Nut, M6, Nyloc	
	011090	4	. . Washer, M6	
NI	013069	1	. . Key, locker door	
6	030773	2	Rear marker light	Page 556
	000028	4	. . Screw, slotted round head, 2BA x $\frac{1}{2}$ "	
	011078	4	. . Nut, 2BA, Nyloc	
7	024937	1	Seal, cooler, long	
8	022604	2	Clamp, long	
	011010	8	. . Set screw, M8 x 20mm	
	011073	8	. . Nut, M8, Nyloc	
	011092	8	. . Washer, M8	
9	022603	1	Seal, cooler, short	
10	024983	2	Clamp, short	
	011010	8	. . Set screw, M8 x 20mm	
	011073	8	. . Nut, M8, Nyloc	
	011092	8	. . Washer, M8	
11	014064	1	Beacon, standard fit	Page 556
NI	036911	1	Loom, hopper components	Page 554
12	010719 *	1	Pivot plate, hopper lift ram	
NI	025581 *	A/R	. . Spacer 4mm	
13	040382 *	1	. . Clamp plate (inside of hopper)	
	011075 *	6	. . Nut, M10, Nyloc	
	000270 *	6	. . Washer M10	
14	034395 *	2	. . Ram pivot bar	
	011034 *	4	. . . Bolt, M10 x 40mm	
	011095 *	4	. . . Washer, spring, rectangular, M10	
15	024784	1	. . Capping, LH. (Merlin) (Rivet)	
NI	040024	1	. . Capping, LH. (Merlin) (Screw)	
NI	025767	1	. . Capping, LH. (Magnum/8000/8500) (Rivet)	
NI	040014	1	. . Capping, LH. (Magnum/8000/8500) (Screw)	
NI	024789	1	. . Capping, RH. (Merlin) (Rivet)	
NI	040025	1	. . Capping, RH. (Merlin) (Screw)	
NI	025766	1	. . Capping, RH. (Magnum/8000/8500) (Rivet)	
NI	040013	1	. . Capping, RH. (Magnum/8000/8500) (Screw)	

Notes:-

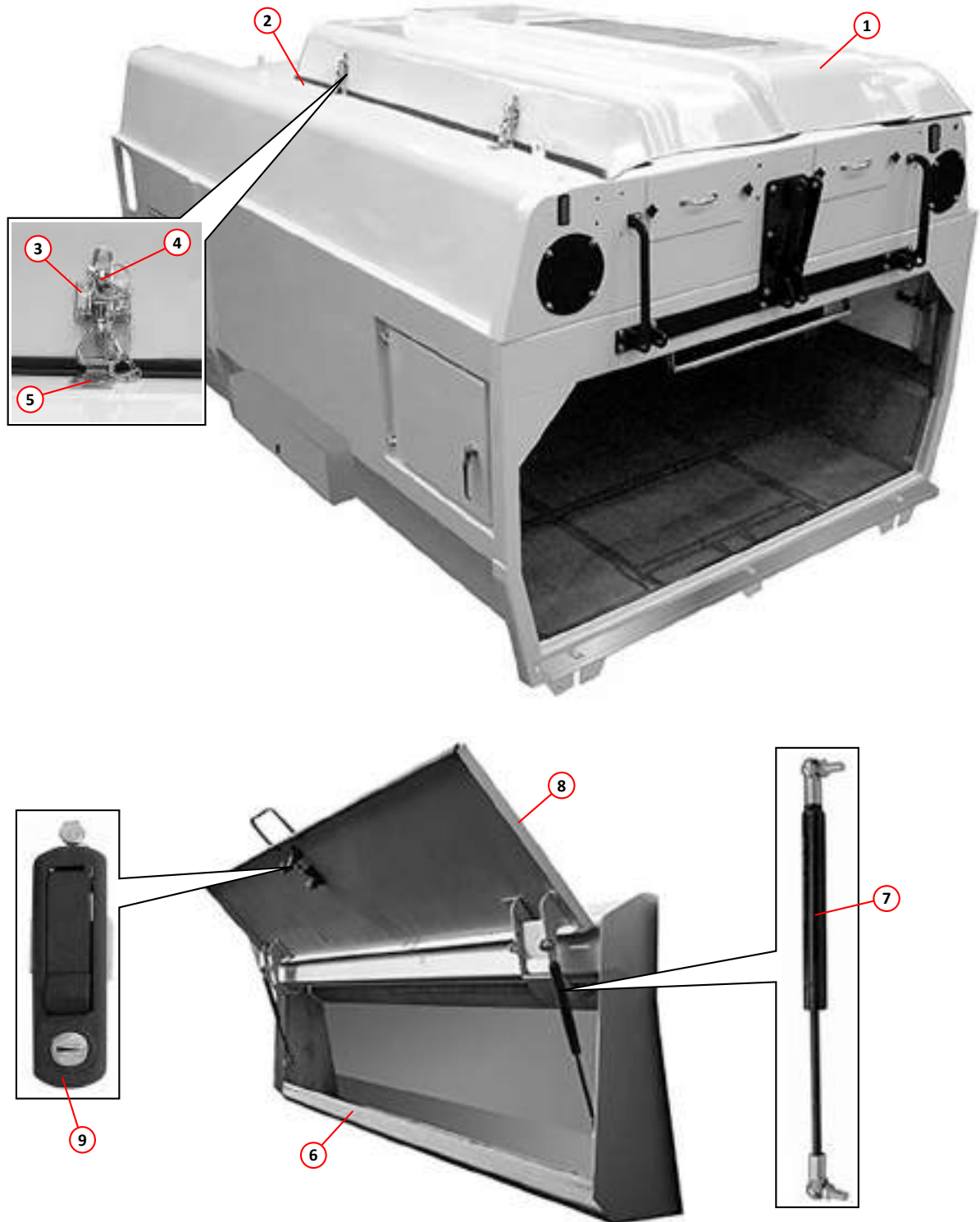
* All these parts are required to retro fit the single piece pivot plate in place of the older 2 piece design.



i Many variations of hopper exist therefore it is advisable to contact Scarab Parts Department, quoting the machines serial number when ordering associated replacement parts.

Hopper External Fittings

Item	Part Number	Quantity	Description	
Hopper External Fittings - Continued				
1	024704	1	Hopper cover, GRP (Merlin)	
2	013952	AR	. Seal strip	
	000005	15	. . Screw, slotted countersunk, 2BA x $\frac{3}{4}$ "	
	011078	15	. . Nut, 2BA, Nyloc	
3	022656	5	. Toggle clip fastener	
4	013507	5	. Linch pin, complete with chain	
5	022657	5	. Hook plate, toggle clip	
6	031487	1	Ancillary tool locker body	
	000344	4	. Screw, button socket head, M10 x 25mm stainless steel	} Option
	000269	4	. Nut, M10, Nyloc, stainless steel	
	000270	4	. Washer, M10, stainless steel	
7	033114	2	. Gas Strut	
8	031489	1	. Locker door	
	011019		. . Set screw, M8 x 90mm	
	011073		. . Nut, M8, Nyloc	
9	033115	1	. Locking latch	



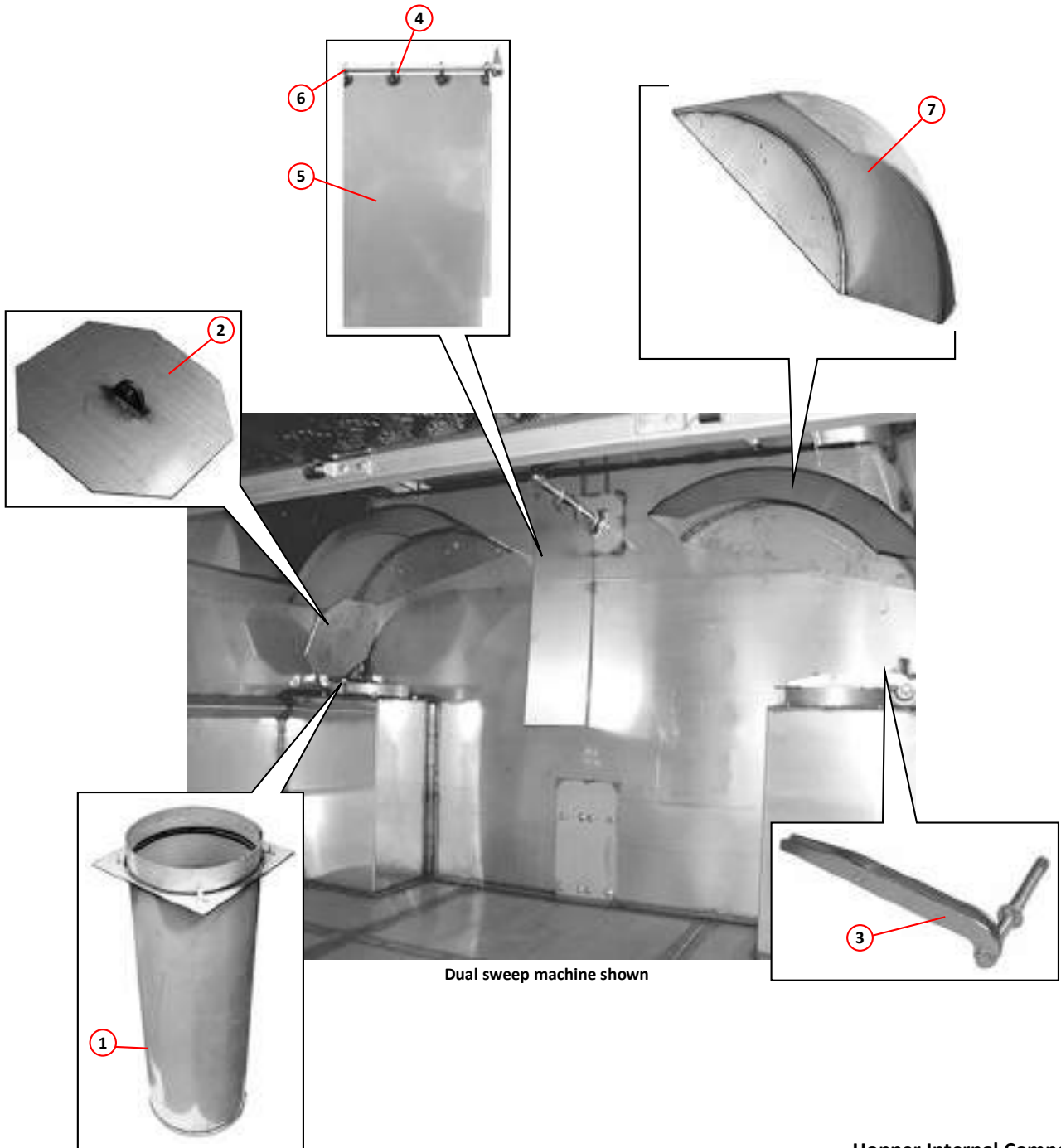
i Many variations of hopper exist therefore it is advisable to contact Scarab Parts Department, quoting the machines serial number when ordering associated replacement parts.

Hopper External Fittings

Item	Part Number	Quantity	Description
Hopper Internal Components			
1	025435 *	1	Suction tube 750mm (Merlin)
1	025401 *	1	Suction tube 850mm (Magnum)
1	025665 *	1	Suction tube 925mm (Magnum/8000/8500)
1	024732 *	1	Suction tube 600mm (Magnum/8000)
	005021	AR	. Sealing strip
	000269	4	. Nut, M10 Nyloc, stainless steel
	000270	4	. Washer, M10, stainless steel
2	021514 *	1	Cover lid, blanking Page 378
3	021518	1	. Flap arm, RH Page 378
NI	021517	1	. Flap arm, LH Page 378
4	030536	1	Mounting bar
	011032	3	. Set screw, M10 x 30mm
	011075	3	. Nut, M10, Nyloc
	011094	3	. Washer, M10
5	030535 *	1	. Deflector plate
6	030537	1	. Locking ring
	011031	1	. . Set screw, M10 x 25mm
	011095	1	. . Washer, spring, M10
7	022644 *	1	Deflector, universal
	011055	2	. Bolt, M12 x 65mm
	011051	4	. Set screw, M12 x 25mm

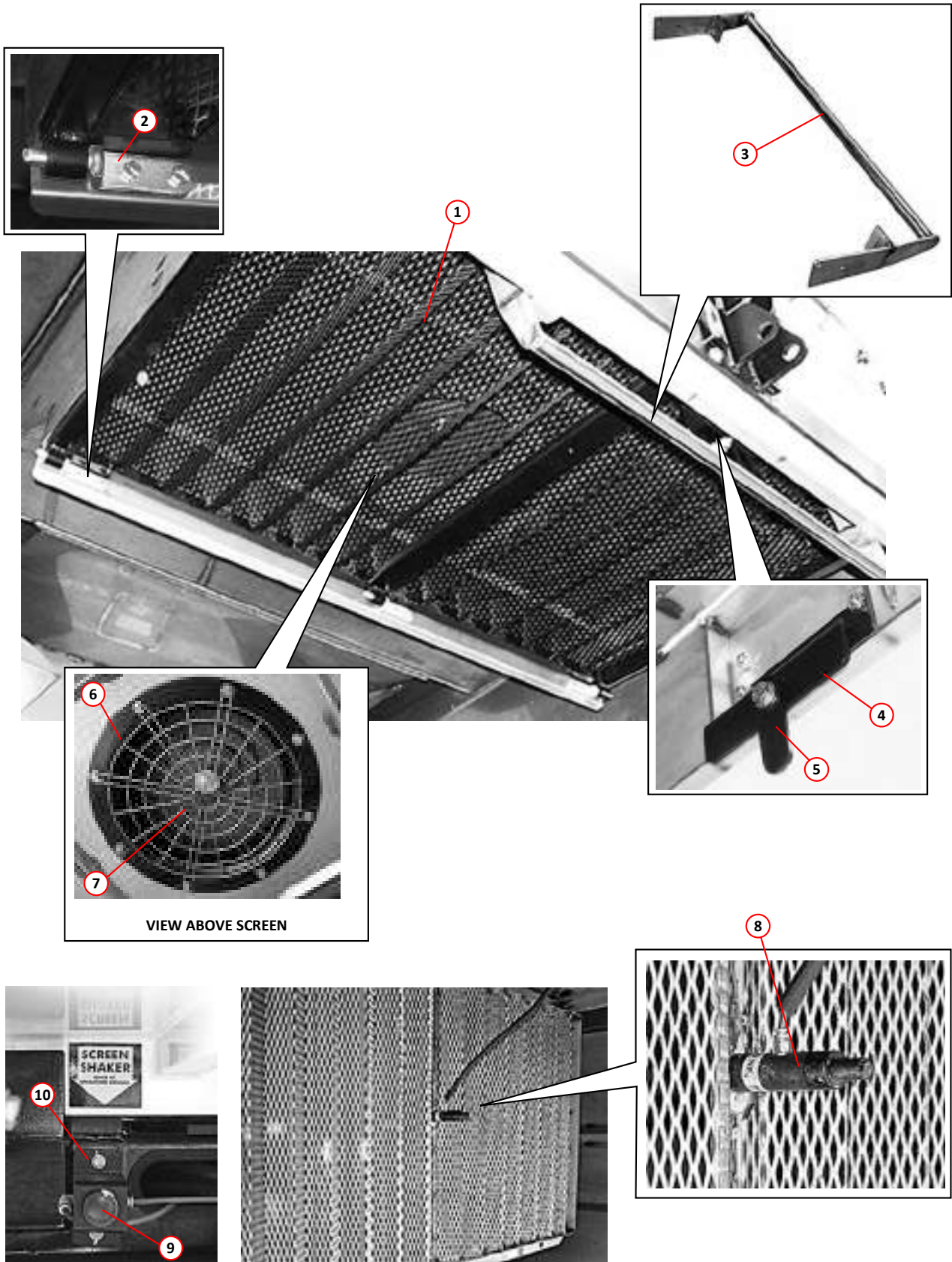
Notes:-

- * Can be supplied with PU compound, before ordering replacement parts, please contact Scarab Parts Department quoting your machine serial number.



Hopper Internal Components

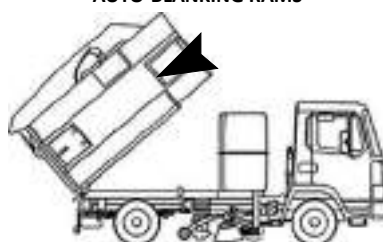
<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>	
Hopper Internal Components - Continued				
1	031883	1	Screen, filter, stainless steel	
1	024668	1	Screen, filter	
2	025245	3	. Hinge, points	
	000257	6	. . Set screw, M8 x 25mm, stainless steel	
	000263	6	. . Nut, M8, Nyloc	
3	028265	1	. Screen handle catch	
	000257	4	. . Set screw, M8 x 25mm, stainless steel	
	000263	4	. . Nut, M8, Nyloc, stainless steel	
	011092	4	. . Washer, M8	
4	028052	1	. Bracket, safety link	
5	028053	1	. . Safety link	
	000280	1	. . . Set screw, M10 x 25mm, stainless steel	
	011075	1	. . . Nut, M10, Nyloc, stainless steel	
	000270	2	. . . Washer, M10, stainless steel	
6	032357	1	Cone, inlet, suction fan, stainless steel	
6	024790	1	Cone, inlet, suction fan	
7	039674	1	. Fan guard	
NI	034091	1	. Repair ring (requires welding)	
	000263	8	. Nut, M8, Nyloc, stainless steel	
8	033618	1	Vibrator, screen shaker	} Option
9	033619	1	Screen shaker control valve	
10	033620	1	. Mount, screen shaker control valve	
	011087	2	. . Set screw, M6 x 25mm	
	011071	2	. . Nut, M6, Nyloc	



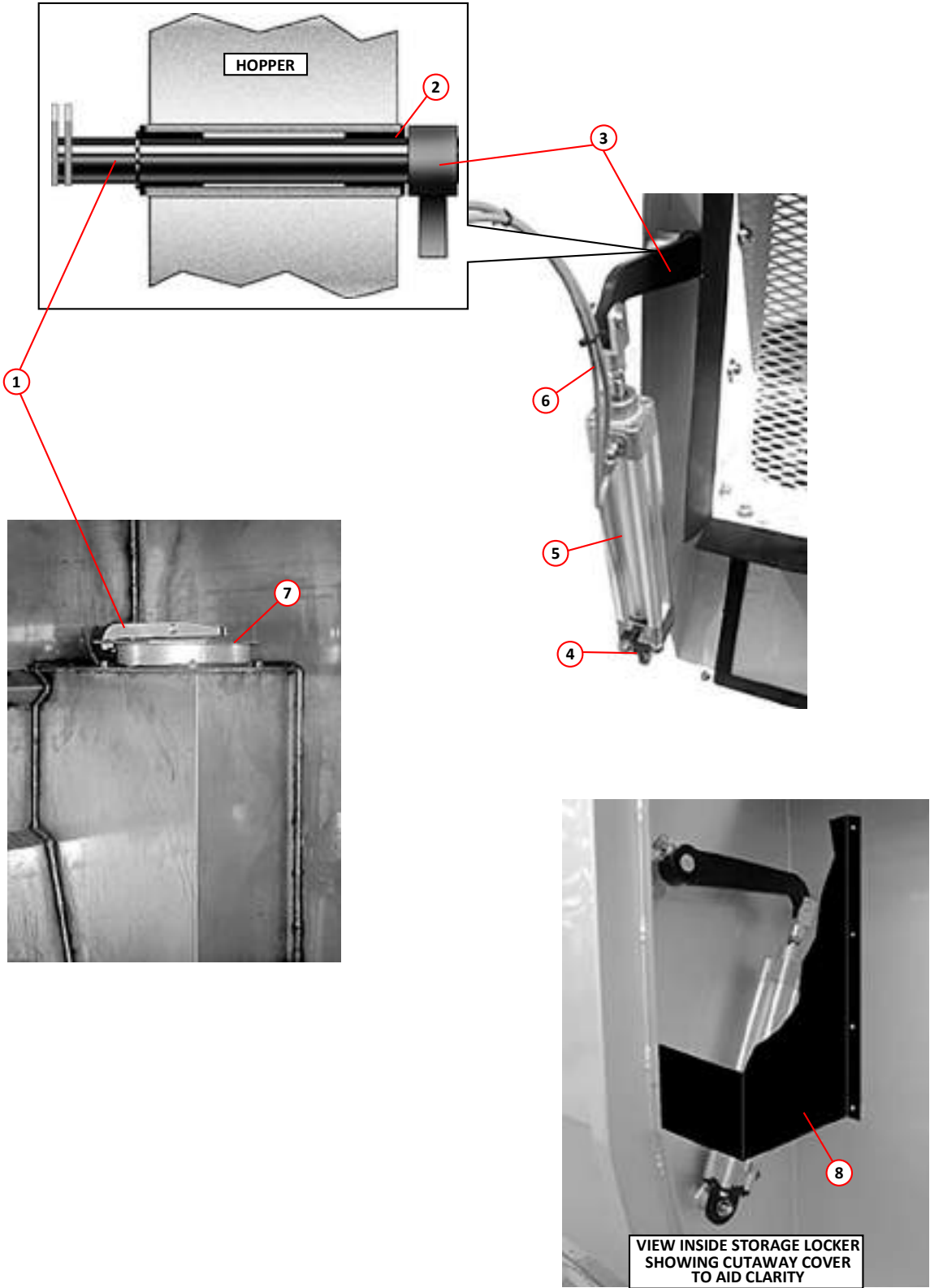
Hopper Internal Components

Item	Part Number	Quantity	Description
			Auto Blanking Arrangement *
1	021517	1	Flap arm, LH Page 374
NI	021518	1	Flap arm, RH Page 374
2	013488	2	. Bush
3	024772	1	. Flap lever
	000363	1	. . Set screw, M12 x 1.25 pitch x 25mm, stainless steel
	000279	1	. . Nut, M12 x 1.25 pitch, stainless steel
5	021467	1	Cylinder, pneumatic, 40 x 200 Page 546
	011075	1	. Nut, M10, Nyloc
6	024650	AR	. Tubing, air, flexible nylon, 6mm Superflex
7	021514 †	1	Flap lid, blanking Page 374
8	025486	1	Cover plate (Merlin)
NI	032343	1	Cover plate (XP)
NI	021547	1	Cover plate (Magnum)

AUTO-BLANKING RAMS

**Notes:-**

- * Items listed are identical for both left and right hand blanking assemblies, except for where identified specifically for one side.
- † Can be supplied with PU compound, before ordering replacement parts, please contact Scarab Parts Department quoting your machine serial number.

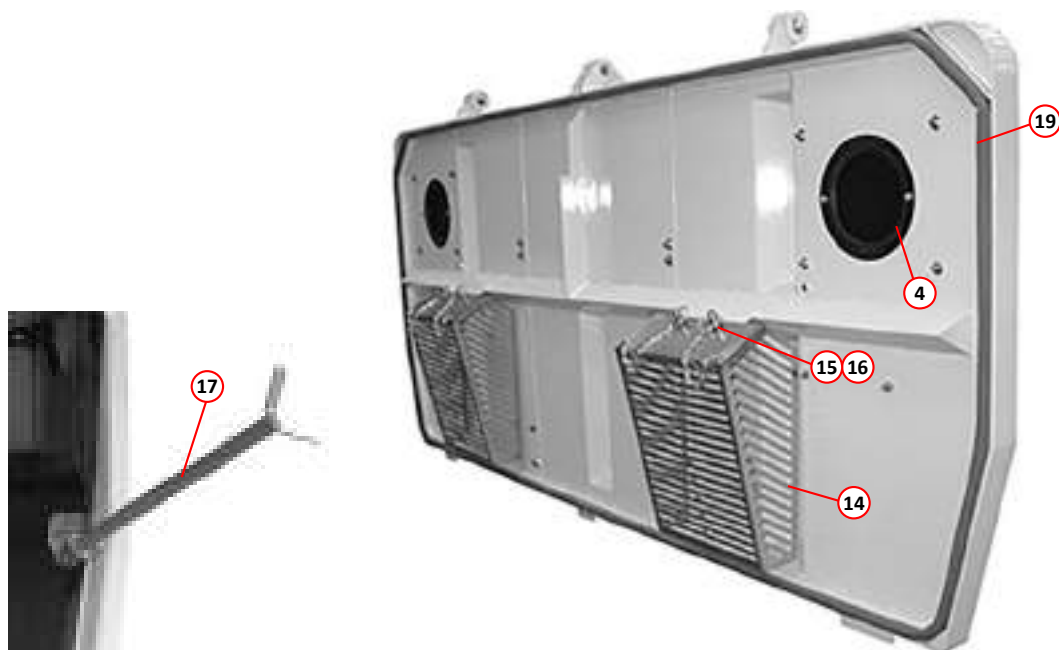
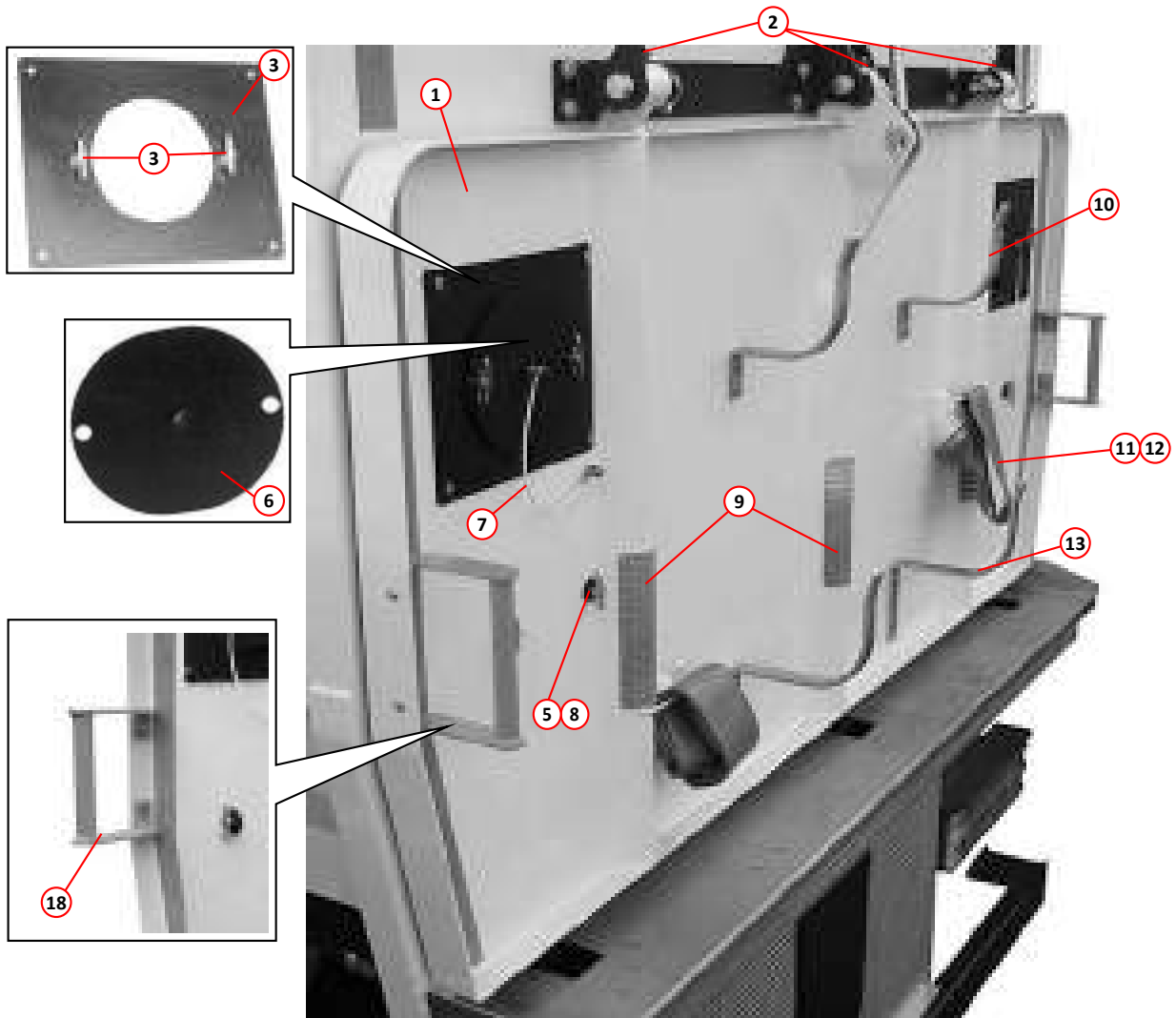


Auto Blanking - Arrangement

Item	Part Number	Quantity	Description
Rear Door Components			
1	023012 *	1	Rear door (Merlin)
NI	027902 *	1	Rear door (Magnum)
NI	032223 *	1	Rear door (XP)
2	010902	3	. Grease point, $\frac{1}{8}$ " BSP x 90°
3	023009	2	. Plate, wander hose, mounting
4	025222	AR	. . Sealing strip, Titanfast DX78
	000257	8	. . Set screw, M8 x 25mm, stainless steel
	000263	8	. . Nut, M8, Nyloc, stainless steel
5	012253	8	. Antiluce, small
6	012486	2	. Plate, blanking cap
7	020711	2	. . Leash cable
	000258	2	. . . Set screw, M8 x 30mm, stainless steel
	000262	4	. . . Nut, M8, stainless steel
	000263	4	. . . Nut, M8, Nyloc, stainless steel
8	021979	4	. . . Washer, rubber
9	031919	3	. Protector
10	010245	2	. Hook, wander hose, upper mounting
	000257	4	. . Set screw, M8 x 25mm, stainless steel
	000263	4	. . Nut, M8, Nyloc, stainless steel
11	010998	AR	. Hose, lay flat
12	012931	2	. . Clamp, worm drive, 70-90mm
13	022747	2	. Hook, wander hose, lower mounting
	000257	4	. . Set screw, M8 x 25mm, stainless steel
	000263	4	. . Nut, M8, Nyloc, stainless steel
14	022292	2	. Strainer (option)
15	013506	4	. . . Pin
16	013507	4	. . . Linch pin and chain
17	039683	1	. Safety prop, hopper rear door, usually stowed in locker
18	039593	2	. Grab handle, hopper door
	000281	4	. . Set screw, hex socket pan head, M8 x 25mm, stainless steel
	000264	4	. . . Washer, M8, stainless steel
	000263	4	. . . Nut, M8, Nyloc, stainless steel
19	030481	6.0 m	. Seal, rear door, circular section, (cut to length)

Notes:-

- * Rear doors listed are for standard hoppers. Many variations of hopper and rear door exist and therefore it is advisable to contact Scarab Parts Department, quoting machine serial number when ordering.



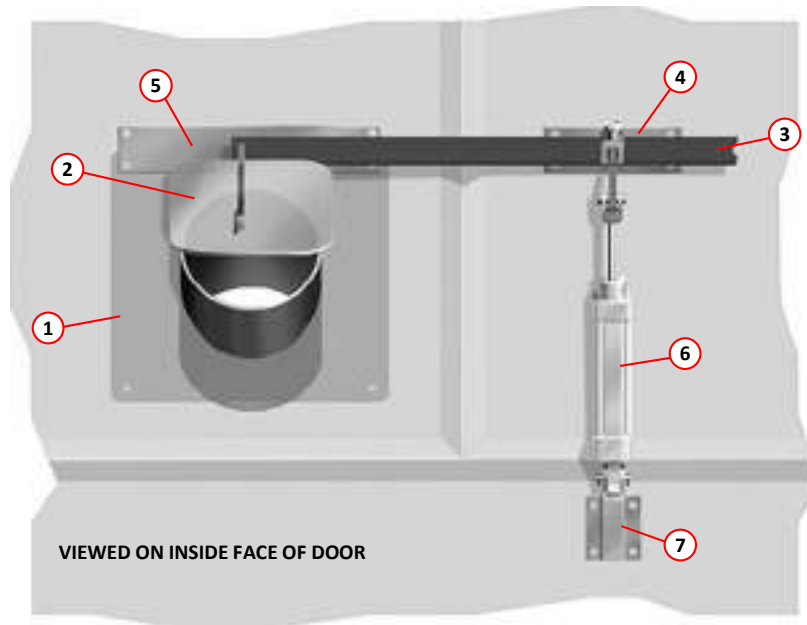
Rear Door Components

Item	Part Number	Quantity	Description
Rear Door Auto Blanking Assembly * - (Option)			
1	027674	2	Hose Spigot Plate
2	027675	2	. Flap Plate
3	027802	1	. Pivot Bar
4	027737	1	. . Adjuster bracket
5	027738	2	. . Pivot bracket
6	020602	1	Cylinder, pneumatic, 40 x 125 Page 544
7	027679	1	. Ram bracket

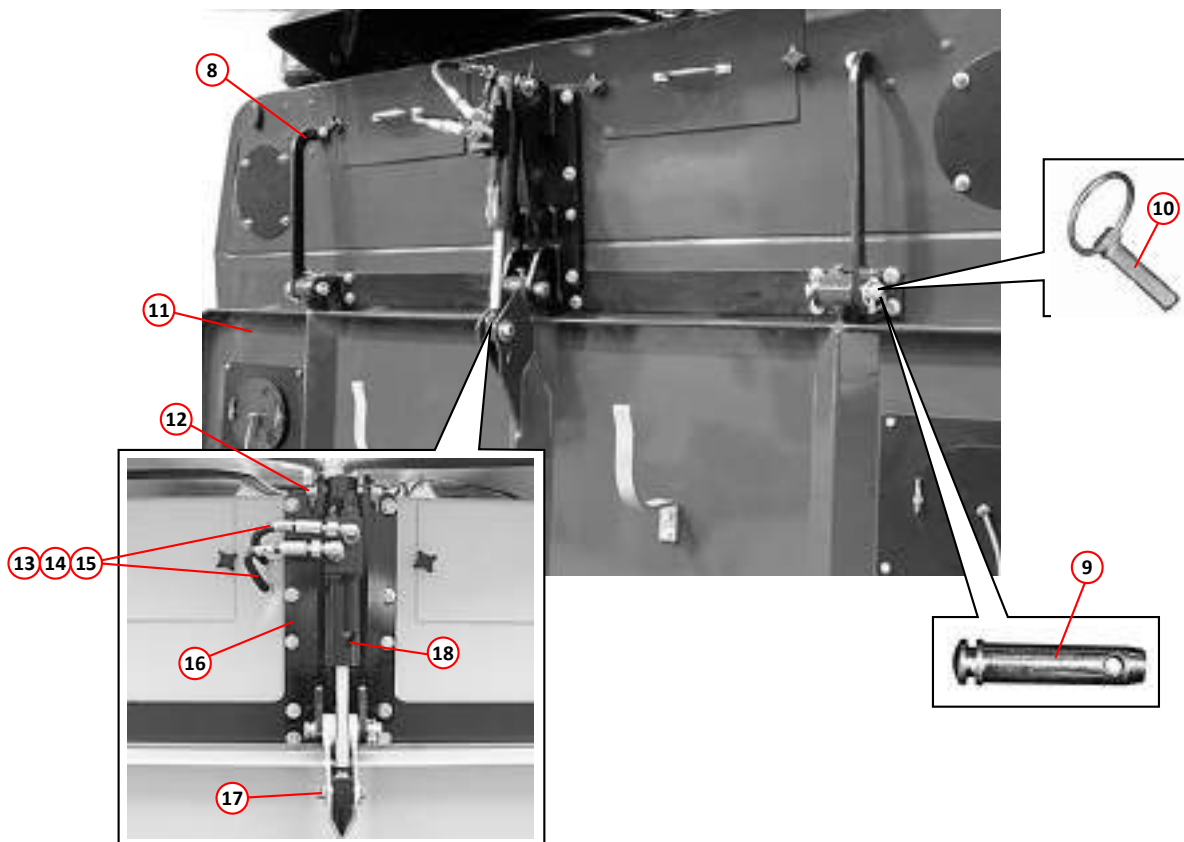
Item	Part Number	Quantity	Description
Rear Door Hinge and Ram Arrangement			
8		1	Hinge plate Page 366
9	013051	3	Hinge pin
10	013053	3	. Linch pin
11		1	Rear door assembly Page 380
12	022558	1	Pin, upper
	011102	4	. Washer, M20
	011122	2	. Split pin, $\frac{3}{16}$ " x $1\frac{1}{2}$ "
13	011317	2	Hose, rubber, $\frac{1}{4}$ " BSP x 295mm, straight ends
14	011269	2	Adaptor, bulkhead, M/M, $\frac{1}{4}$ " BSP
15	011171	2	Elbow, swivel, $\frac{1}{4}$ " BSP, M/F
16		1	Mounting plate, ram Page 366
17	014038	1	. Pin, lower
	011102	4	. Washer, M20
	011122	2	. Split pin, $\frac{3}{16}$ " x $1\frac{1}{2}$ "
18	022511	1	Ram assembly Page 512

Notes:-

- * The rear door auto-blanking option is only fitted when the vehicle is equipped with a rear mounted suction nozzle assembly.

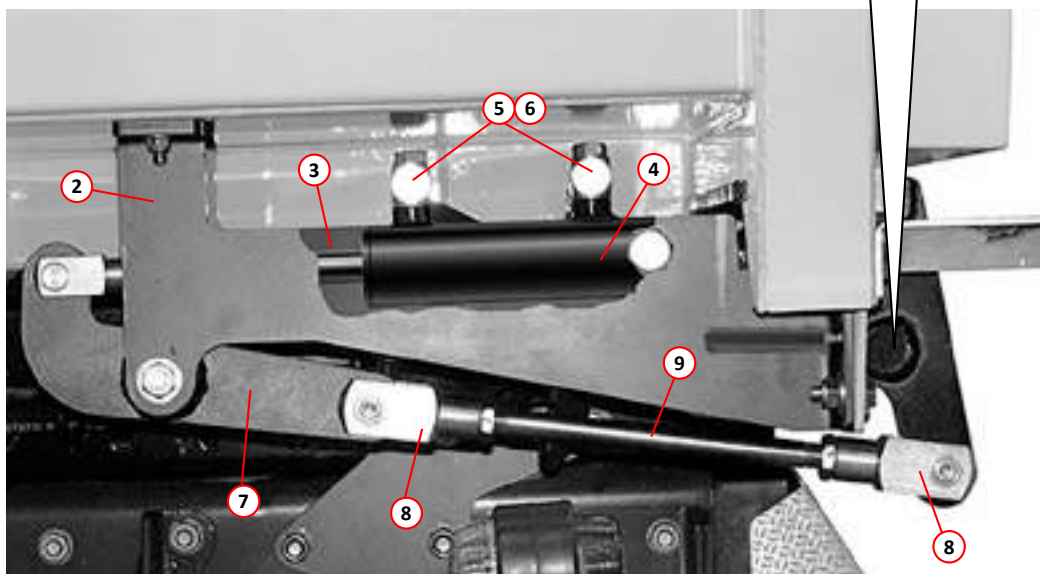
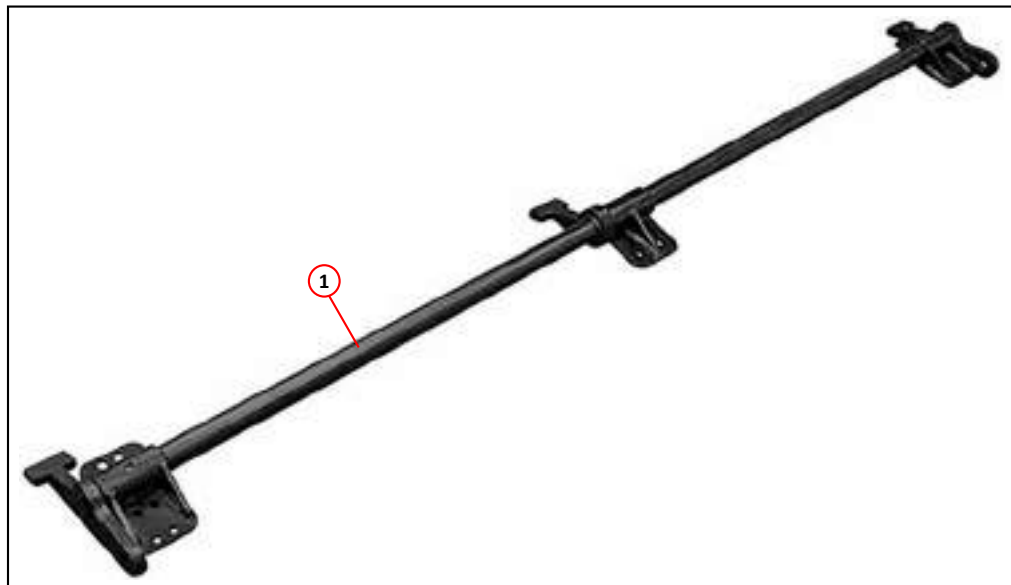


Rear Door Auto Blanking Assembly



Rear Door Hinge and Ram Arrangement

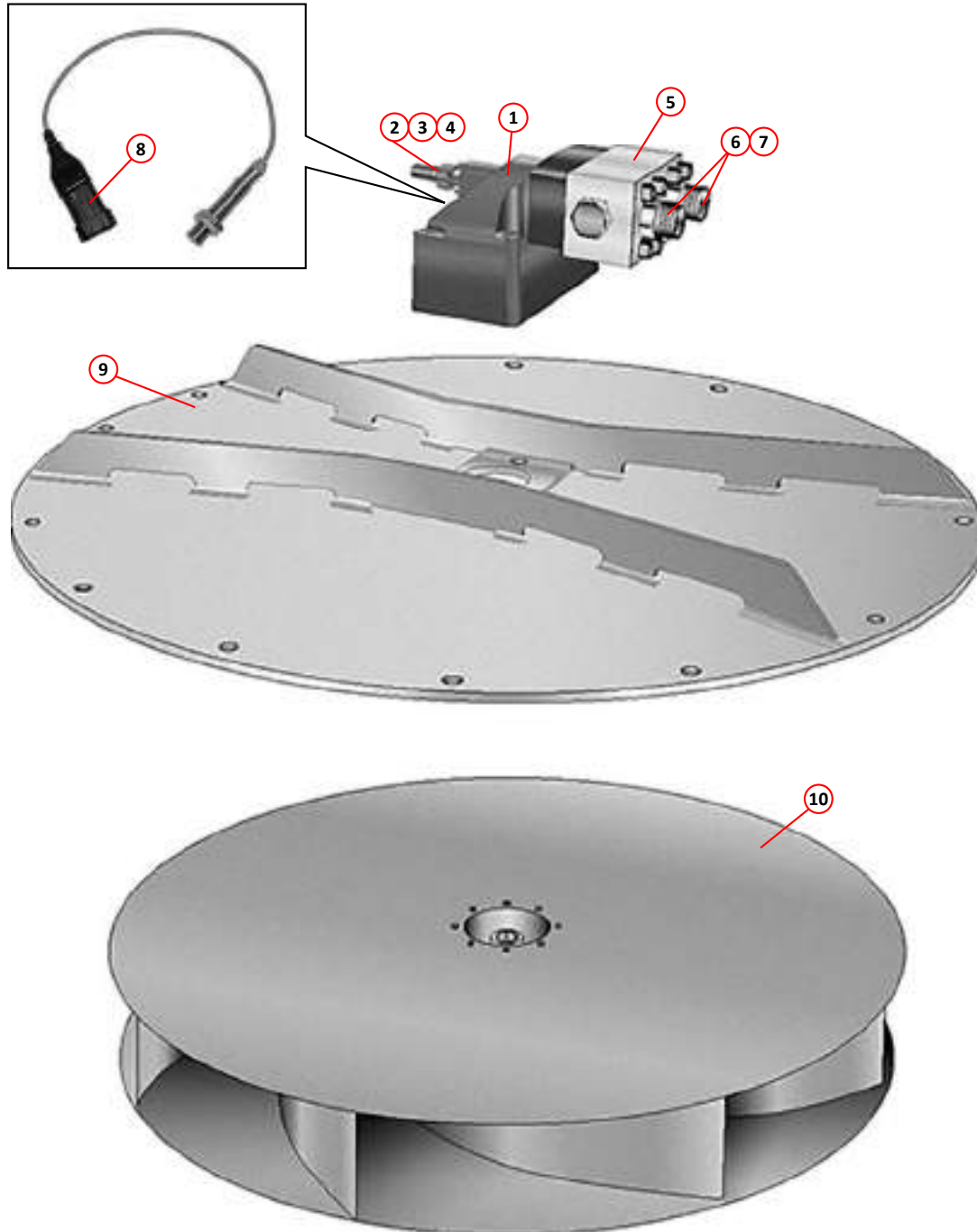
Item	Part Number	Quantity	Description
Rear Door Locking Arrangement			
1	030985	1	Locking bar assembly (Merlin/Merlin XP)
NI	027908	1	Locking bar assembly (Magnum)
NI	028089	1	Locking bar assembly (8000/8500)
	011032	8	. Set screw, M10 x 30mm
	011074	16	. Washer, M10
	011075	8	. Nut, M10, Nyloc
2	030984	1	Side plate, outer, rear door clamp, RH (Merlin)
3	030982	1	Side plate, inner, rear door clamp, RH (Merlin)
NI	030983	1	Side plate, outer, rear door clamp, LH (Merlin)
NI	030981	1	Side plate, inner, rear door clamp, LH (Merlin)
NI	028278	1	Side plate, outer, rear door clamp, RH (Magnum/8000/8500)
NI	028278	1	Side plate, inner, rear door clamp, RH (Magnum/8000/8500)
NI	028277	1	Side plate, outer, rear door clamp, LH (Magnum/8000/8500)
NI	027903	1	Side plate, inner, rear door clamp, LH (Magnum/8000/8500)
	000329	4	. Screw, socket button head, M8 x 20mm, stainless steel
	000270	4	. Washer, M8, stainless steel
	000263	4	. Nut, M8, Nyloc, stainless steel
	011031	4	. Set screw, M10 x 25mm
	011074	8	. Washer, M10
	011075	4	. Nut, M10, Nyloc
4	022350	2	. Ram, hydraulic Page 512
	011133	2	. . Bolt, M16 x 100mm
	011060	2	. . Nut, M16, Nyloc
5	002017	4	. . Adaptor, banjo, elbow, M/M, $\frac{1}{4}$ " BSP
6	011152	8	. . Seal, Dowty, $\frac{1}{4}$ " BSP
7	024999	2	. Lever, ram operating
NI	013488	4	. . Bush
NI	022451	2	. . Spacer
	000139	2	. . . Bolt, M12 x 90mm
	011077	2	. . . Nut, M12, Nyloc
8	020299	4	. . Clevis, M16
NI	022673	4	. . Pin, clevis fixing
NI	022674	4	. . Clip, clevis pin
9	022347	2	. . Connecting rod
	000138	4	. . . Nut, M16 x 1.5 pitch



CUT-AWAY TO SHOW HIDDEN DETAIL

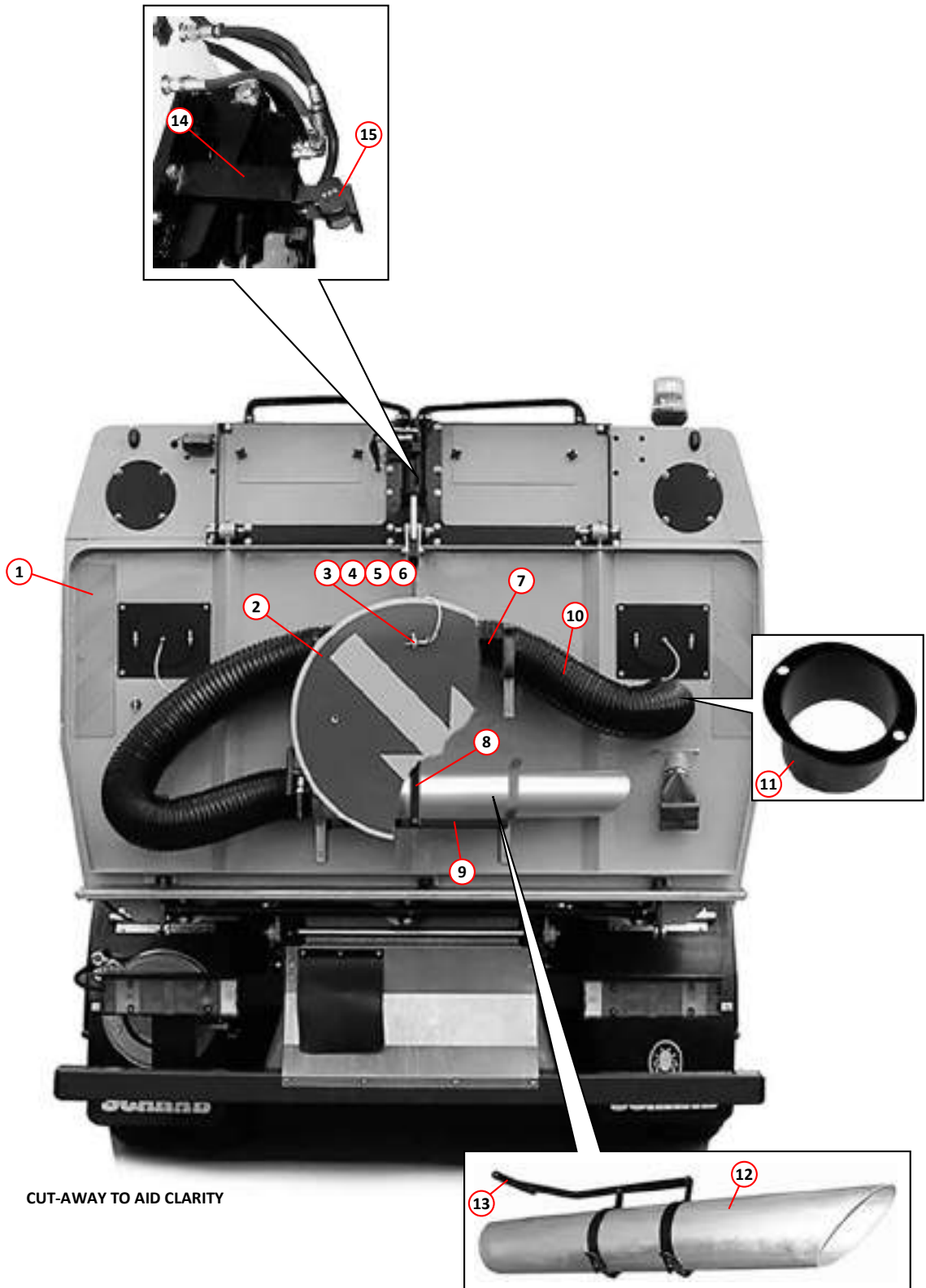
Rear Door Locking Arrangement

Item	Part Number	Quantity	Description
Suction Fan Arrangement			
1	024641	1	Motor, hydraulic, VOAC F12-030-MF-CH-K Page 506
2	011248	1	. Adaptor, M/M, M18 x $\frac{3}{8}$ " BSP
3	011247	1	. Seal, Dowty, M18
4	010921	1	. Hose tail, $\frac{3}{8}$ " BSP female x $\frac{3}{8}$ " hose
NI	027237	1	. Seal kit, for 024641 VOAC Fan Motor
5	035967	1	. Valve block
	000048	8	. . Screw, socket cap head, M10 x 80mm
	011095	8	. , Washer, spring, M10
6	011161	2	. . Adaptor, M/M, $\frac{3}{4}$ " BSP
7	011155	2	. . Seal, Dowty, $\frac{3}{4}$ " BSP
8	025184	1	. Speed sensor (green lead) Page 556
9	024679	1	Fan Plate
	011424	16	. Washer, M10
	011075	16	. Nut, M10, Nyloc
10	025241	1	Impeller
NI	030651	1	Impeller (stainless steel)
NI	041456	1	Impeller, high speed (stainless steel)
	011052	1	. Set screw, M12 x 30mm
	024791	1	. Cap Washer, VOAC Motor



Suction Fan Arrangement

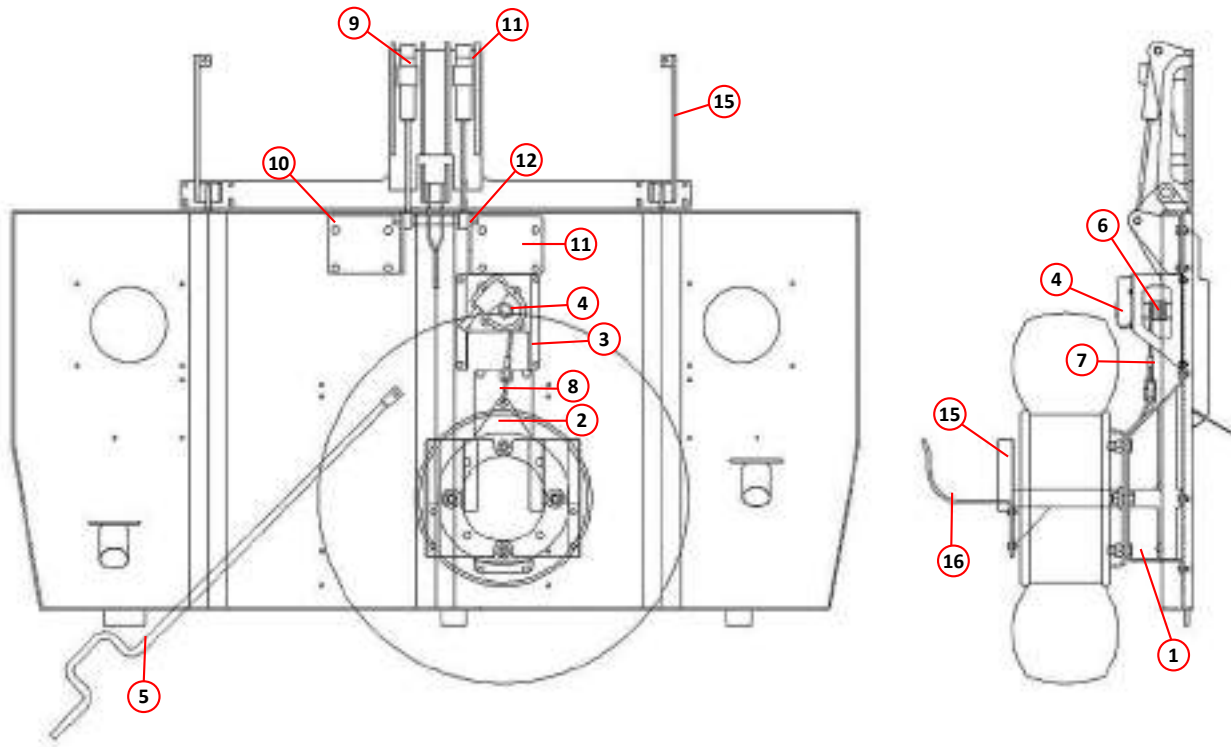
Item	Part Number	Quantity	Description
Additional Hopper/Rear Door Components			
1	022389	2	. Marker plates
2	026694	1	. Directional arrow, ø750mm
3	012253	2	. . Antiluce, small
	012969	2	. . . Washer, rubber, ø40 x 12 bore x 6mm thick
4	020711	1	. . Leash cable
5	021944	1	. . . R-clip
6	023599	1	. . . Key pull
7	031976	1	. . . Upper support bar, directional arrow
8	031978	1	. . . Centre support bar, directional arrow
	000003	2	 Screw, socket countersunk, M8 x 20mm
	011073	2	 Nut, M8, Nyloc
	011092	2	 Washer, M8
9	031977	1	. . . Lower support bar, directional arrow
10	010119	1	. Wander hose, ø160mm x 3 metre
11	012488	1	. . Coupling
NI	010519	2	. . . Clamp, worm drive, size 135-165mm
12	010587	1	. . Tube
13	040670	1	. . Handle
14	036437	1	Bracket, rear camera
15	040354	1	. Rear camera Page 556
NI	040353	1	Loom, power supply, rear camera Page 658,552,554
NI	040355	1	Loom, rear camera Page 658,552,554



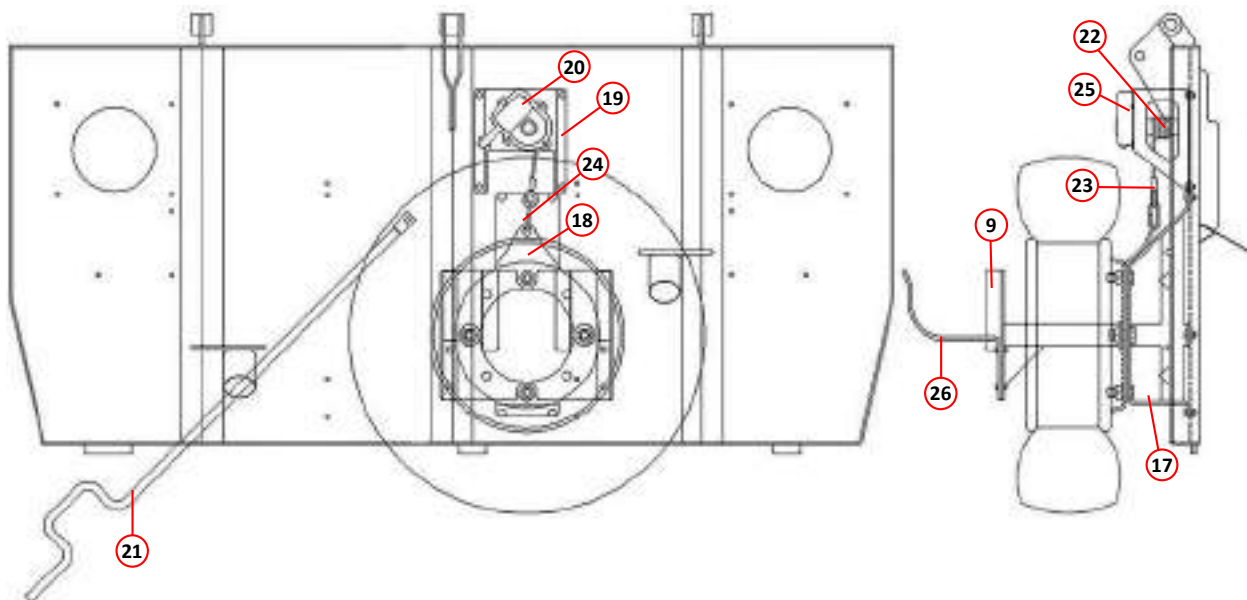
Additional Hopper/Rear Door Parts

<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Rear Door - Spare Wheel Carrier - Magnum - (Option)			
1	026777	1	Bracket, spare wheel
	011082	4	. Nut, M20, Nyloc
2	026778	1	Lift plate
3	026779	1	Bracket, Winch
4	028406	1	Winch, modified
5	028407	1	Winch handle
6	028645	1	Cable, winch
7	014107	2	Cable grip 6mm
8	010606	1	Carabiner
9	022511	1	Ram
10	028523	1	Ram pivot LH
11	028524	1	Ram pivot RH
12	028525	1	Ram pin
13	025661	1	Ram mount, adjustable
14	025660	1	Hinge plate, adjustable
15	028684	1	Rear boom carrier
16	022747	2	Hose hook large

<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Rear Door - Spare Wheel Carrier - Merlin - (Option)			
17	026777	1	Bracket, spare wheel
	011082	4	. Nut, M20, Nyloc
18	026778	1	Lift plate
19	026779	1	Bracket, winch
20	028406	1	Winch, modified
21	028407	1	Winch handle
22	028645	1	Winch cable
23	014107	2	Cable grip 6mm
24	010606	1	Carabiner
25	028684	1	Rear boom carrier
26	022747	2	Hose hook large



Spare Wheel Carrier - Magnum

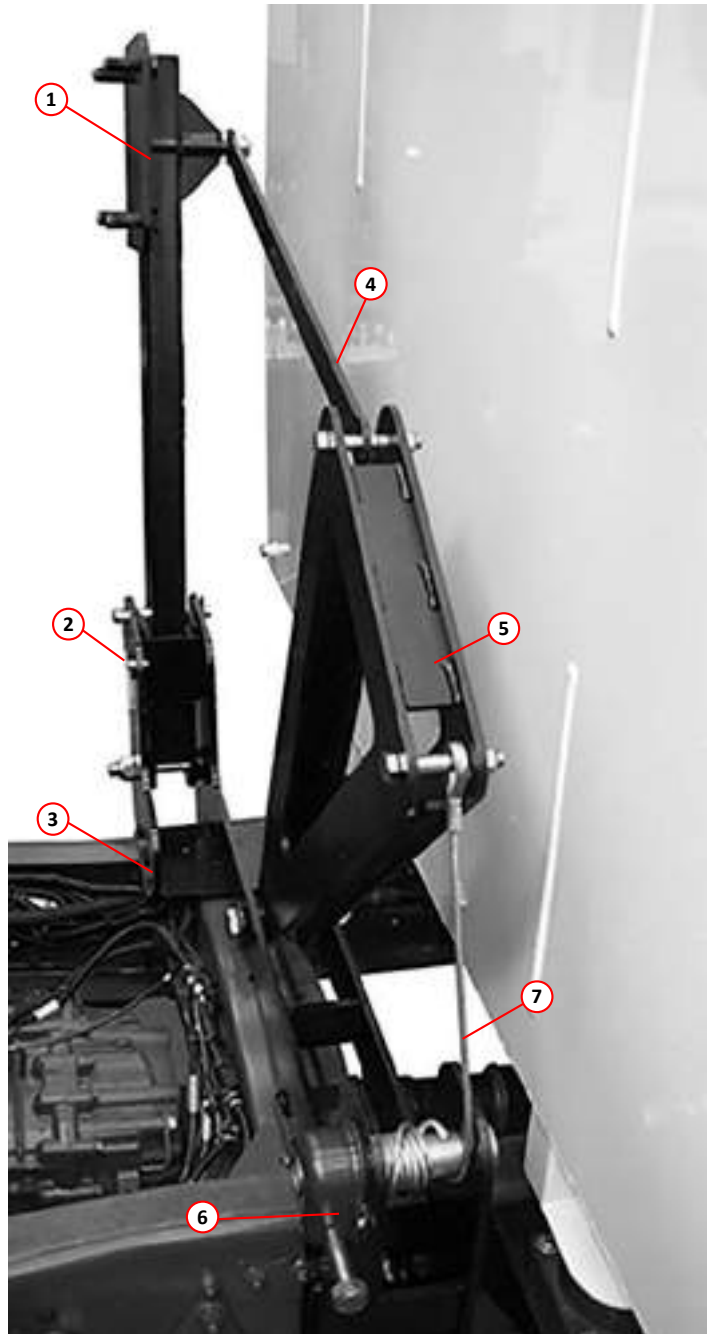


Spare Wheel Carrier - Merlin

<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
			Chassis Mounted - Spare Wheel Carrier - (Option)
1	*	1	Main arm & wheel mounting
	011086	1	. Nut, M16, Nyloc
	000241	2	. Bolt, M24 x 130mm
	000008	2	. Nut, M24, Nyloc
	032587	1	. Lock pin
NI	020711	1	. . Leash cable
NI	023599	1	. . Pull ring
NI	021944	1	. . D-clip
3	*	1	. Mounting bracket
	011052	6	. . Set screw, M12 x 30mm
	011086	6	. . Nut, M12, Nyloc
4	*	1	. Link arm
	000043	2	. . Bolt, M16 x 90mm
	011060	2	. . Nut, M16, Nyloc
5	032586	1	. 'V' Bracket
6	028406	1	. Winch
7	028645	1	Winch cable

Notes:-

* Before ordering these items please contact the Scarab Parts Department quoting machine serial number and model.



Spare wheel omitted to aid clarity

Spare Wheel Carrier

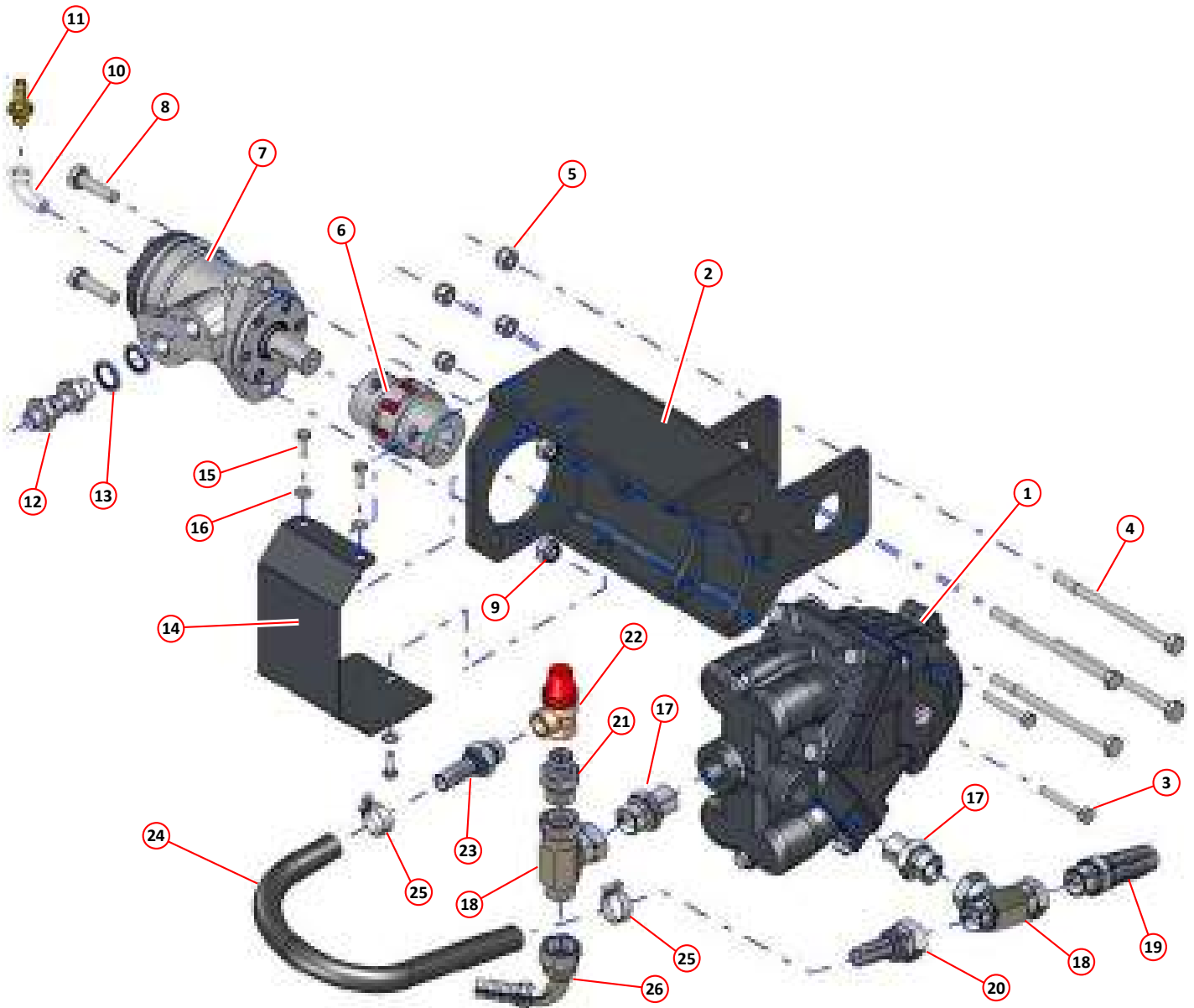
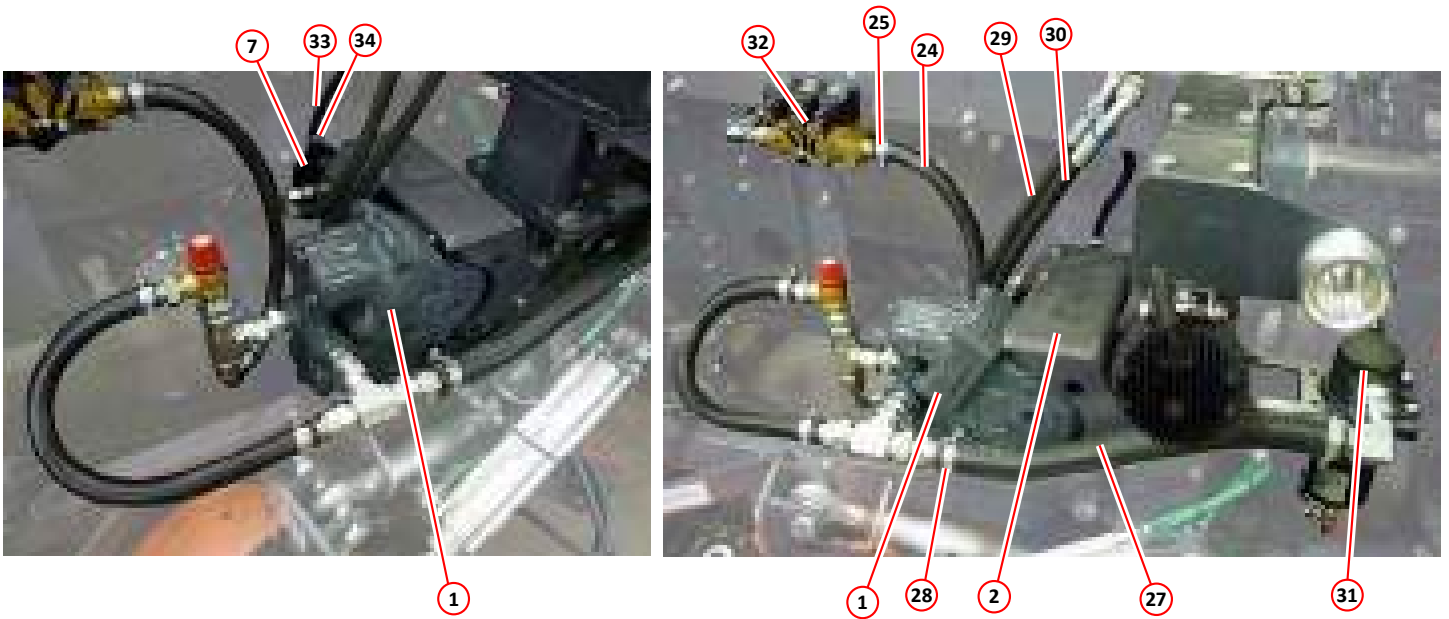
Washing and Dust Suppression

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High Pressure Water Pump - 75 litres/minute - Arrangement	450
High Pressure Water Pump - 75 litres/minute - Components	452
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Item	Part Number	Quantity	Description
Low Pressure Water Pump - Twin Diaphragm - Arrangement (From 2016)			
1	010208 *	1	Pump, twin diaphragm, assembly Page 398
2	045029	1	Mounting bracket, pump
3	011016	2	Set screw, M8 x 50
4	000041	4	Bolt, M10 x 140
5	011075	4	Nyloc Nut, M10
6	043779	1	Coupling
7	043778	1	Motor, hydraulic 40cc
8	011069	2	Bolt, M12 x 40
9	011077	2	Nyloc nut, M12
10	010910	1	Elbow, M/F, $\frac{1}{4}$ " BSP
11	010922	1	Adapter, $\frac{1}{4}$ " x BSP $\frac{3}{8}$ " hose tail
12	011167	2	Adapter, $\frac{1}{2}$ " x $\frac{3}{8}$ " BSP
13	011154	2	Dowty seal, $\frac{1}{2}$ " BSP
14	044186	1	Cover, coupling
15	011067	3	Set screw, M6 x 20
16	011090	3	Plain washer, M6
17	002245	2	Adapter, $\frac{3}{4}$ " BSPP x $\frac{3}{4}$ " BSP
18	002233	2	Tee, M/F/F, $\frac{3}{4}$ " BSP, nut on branch
19	002252	1	Adapter, $\frac{3}{4}$ " BSP x 1" hose tail
20	001144	1	Adapter, female $\frac{3}{4}$ " BSP x $\frac{5}{8}$ " hose tail
21	011166	1	Adapter, $\frac{3}{4}$ " x $\frac{1}{2}$ " BSP
22	030741	1	Pressure relief valve
23	002159	1	Adapter, $\frac{1}{2}$ " BSPP x $\frac{5}{8}$ " hose tail
24	011000	As Req	Hose, $\frac{5}{8}$ " bore
25	010517	4	Clamp, worm drive, 18-25mm
26	001145	1	Adapter, female x $\frac{5}{8}$ " hose tail
27	010959	As Req	Hose, 1" bore
28	010518	2	Clamp, worm drive, 1X [30-40mm]
29	001220	1	Hose, $\frac{3}{8}$ " BSP x 410mm, straight/90° ends
30	001294	1	Hose, $\frac{3}{8}$ " BSP x 500mm, straight/90° ends
31		1	Water filter, low pressure, assembly Page 400
32		1	Water valves, low pressure, assembly Page 410

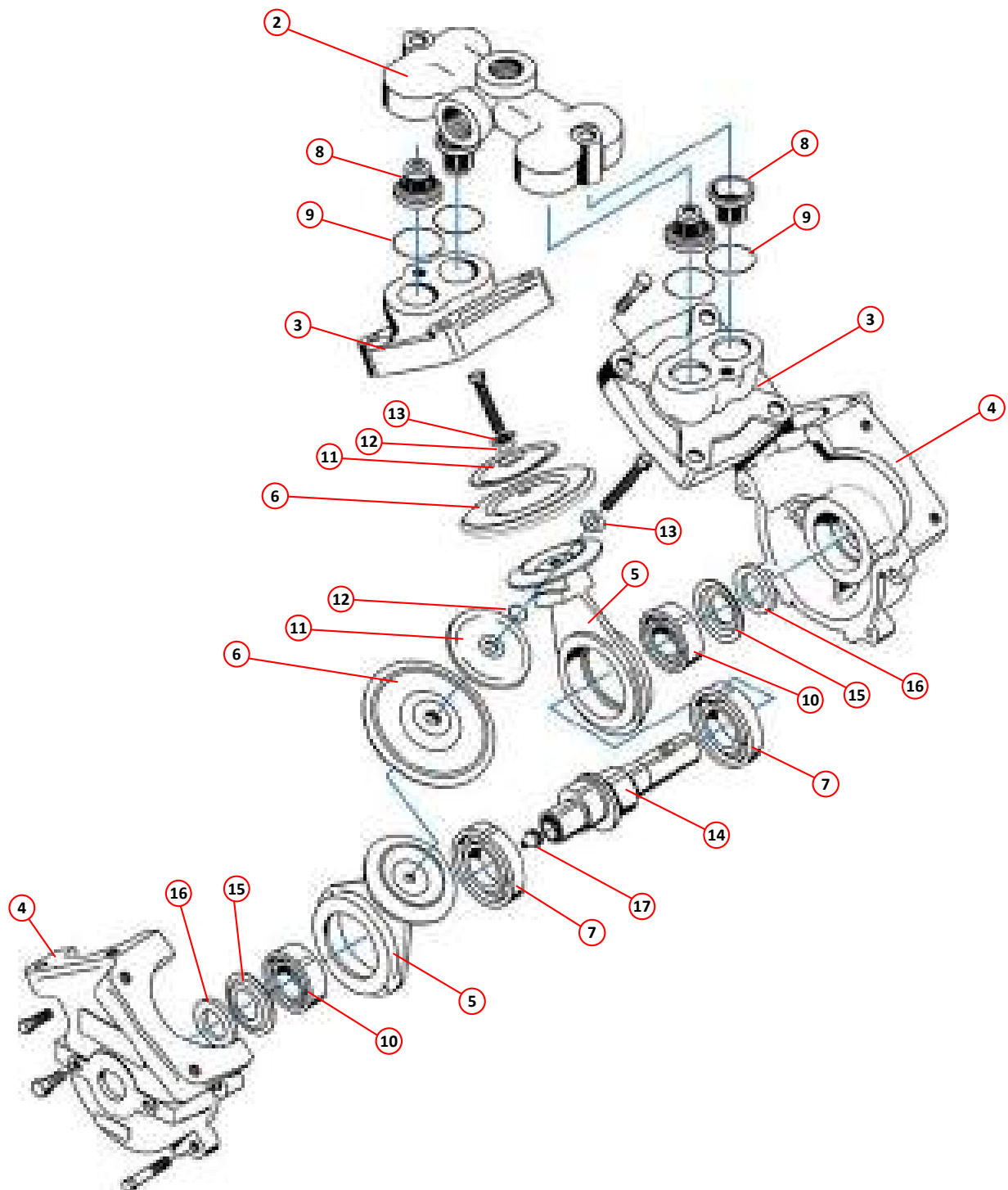
Notes:-

* A service exchange unit is available, please contact Scarab Parts Department.



Low Pressure Water Pump - Twin Diaphragm (From 2016)

<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Low Pressure Water Pump - Twin Diaphragm - Components (From 2016)			
1	010208	1	Pump, twin diaphragm, low pressure, assembly 396
2	020460	1	Pump bridge, valve chamber
3	020463	1	Pump head, diaphragm cover
4	020461	1	Pump crankcase
5	014682	2	Connecting rod
6	013629	2	Diaphragm
7	013522	2	Bearing, ball
8	013627	4	Poppet valve
9	013628	4	Sealing ring
10	022726	1	Bearing, ball
11	014882	2	Diaphragm upper
12	031560	2	Seal
13	031561	2	Washer
14	048004	1	Pump eccentric
15	014881	1	Retainer
16	014879	1	Felt washer
17	010903	1	Grease point, $\frac{1}{8}$ " straight

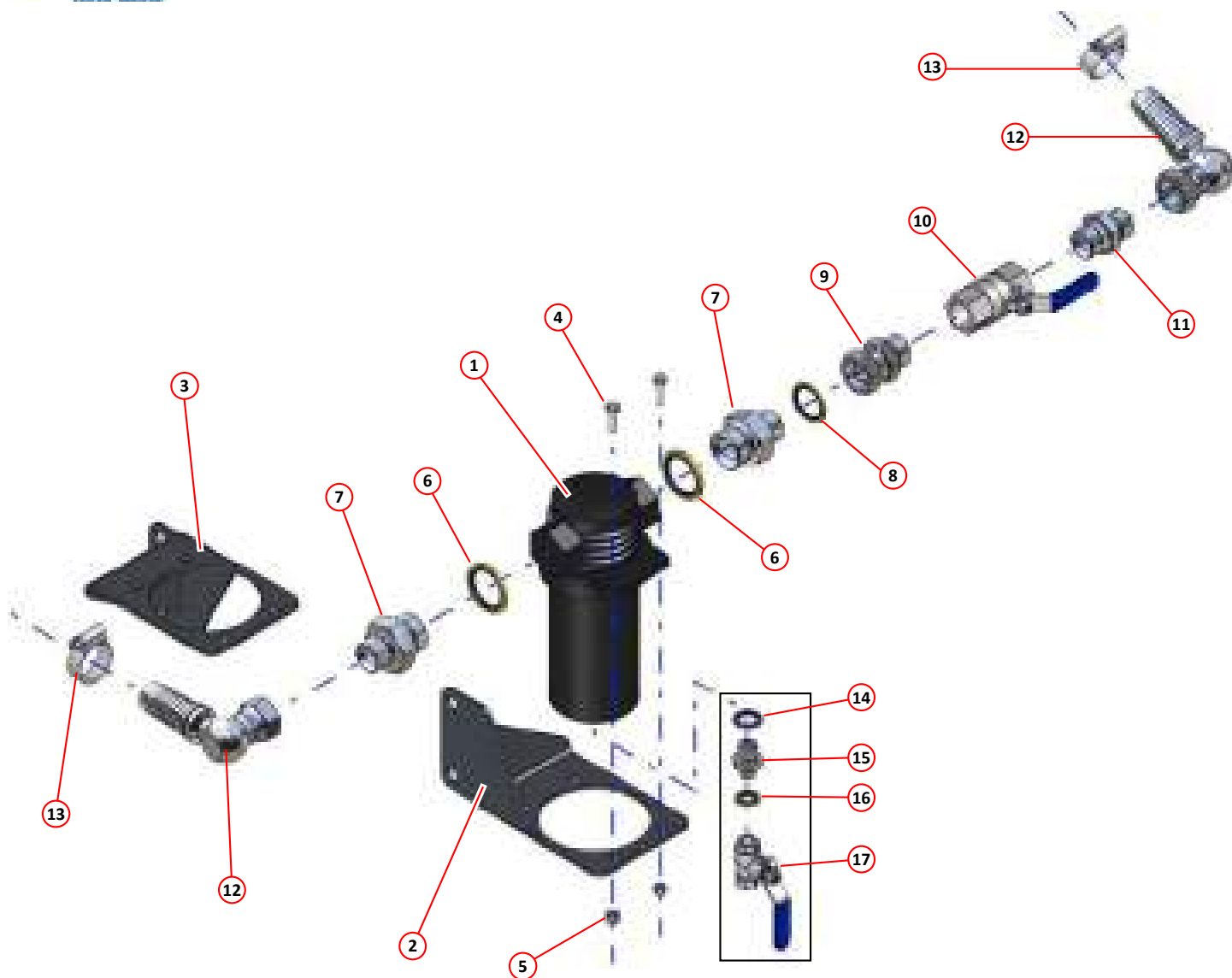


Low Pressure Water Pump - Twin Diaphragm - Components (From 2016)

Item	Part Number	Quantity	Description
Low Pressure Water Filter (From 2016)			
1	023862	1	Water strainer
2	043863	1	Bracket, water strainer, Merlin and Merlin XP
3	043863	1	Bracket, water strainer, Magnum
4	011067	2	Set screw M6 x 20
5	011071	2	Nyloc nut, M6
6	011156	2	Dowty seal, 1" BSP
7	011193	2	Adapter, 1" x $\frac{3}{4}$ " BSP
8	011155	1	Dowty seal, $\frac{3}{4}$ " BSP
9	012228	1	Adapter, swivel, M/F, $\frac{3}{4}$ " x $\frac{3}{4}$ " BSP
10	013757	1	Valve, ball, $\frac{3}{4}$ " BSP
11	011161	1	Adapter, $\frac{3}{4}$ " BSP
12	002203	2	Adapter, $\frac{3}{4}$ " BSPP x 1" hose tail
13	010518	2	Clamp, worm drive, 1X [30-40mm]
NI	010959	As Req	Hose, 1" bore
14	011153 *	1	Dowty seal, $\frac{3}{8}$ " BSP
15	011199 *	1	Adapter, $\frac{3}{8}$ " x $\frac{1}{4}$ " BSP
16	011152 *	1	Dowty seal, $\frac{1}{4}$ " BSP
17	011743 *	1	Valve, ball, $\frac{1}{4}$ " BSP

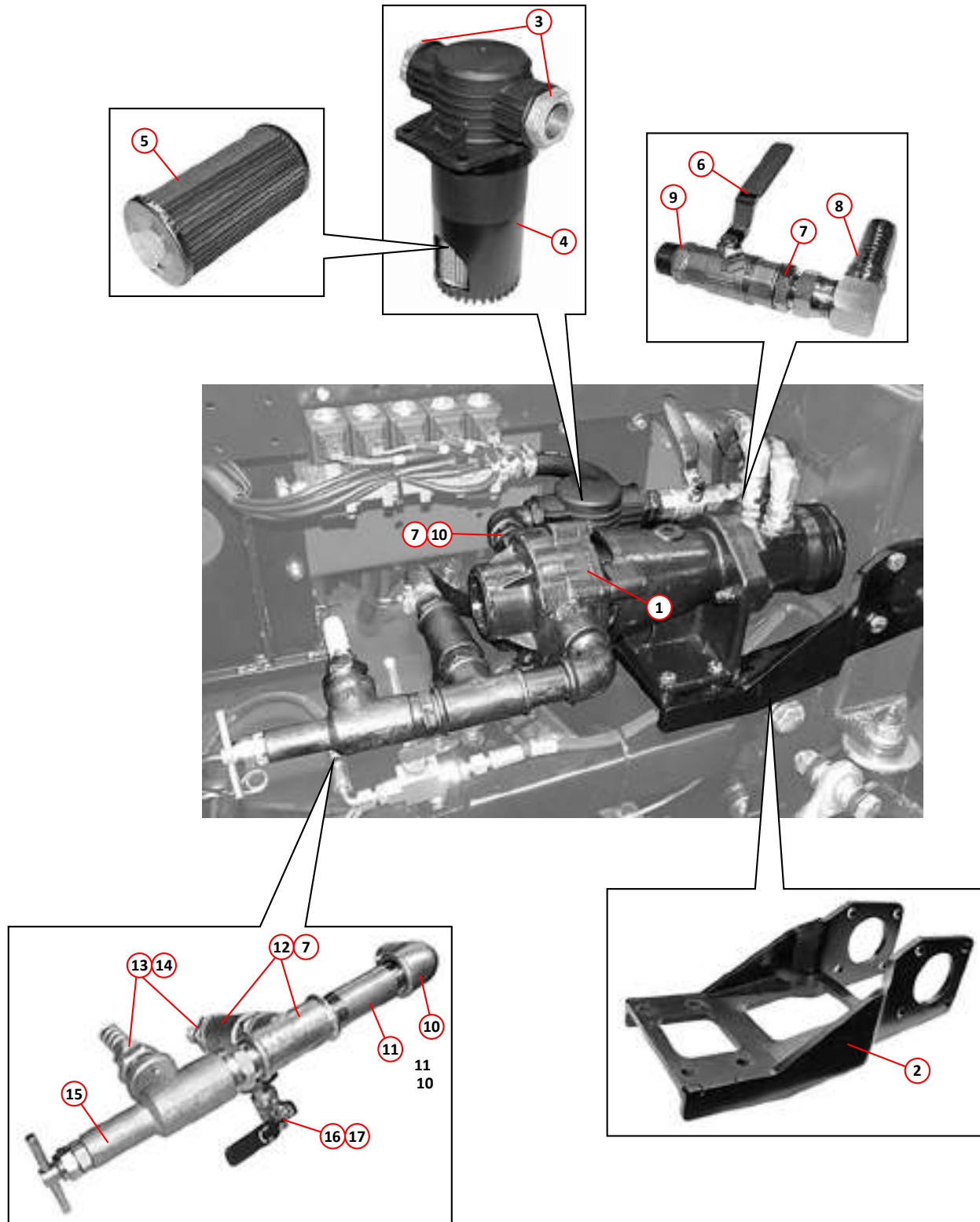
Notes:-

* Only only water purge systems



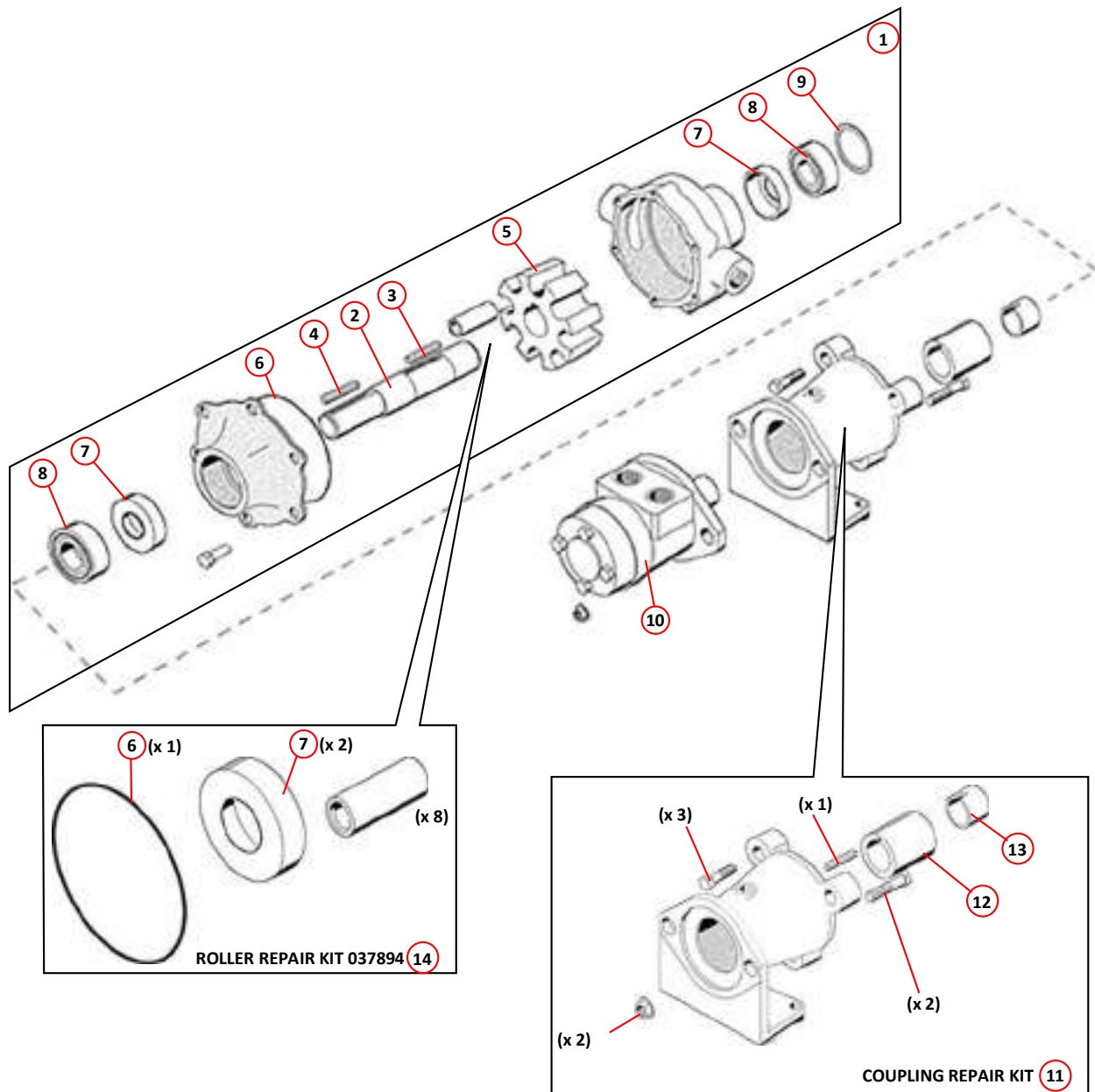
Low Pressure Water Filter (From 2016)

Item	Part Number	Quantity	Description
Low Pressure Water Pump - Roller - Arrangement			
1	037812	1	Water pump, low pressure (roller type) Page 404
	011013	4	. Set screw, M8 x 35mm
	011073	4	. Nut, M8, Nyloc
2	037813	1	. Bracket, pump support
	011407	4	. . Bolt, M10 x 120mm
	011075	4	. . Nut, M10, Nyloc
3	000154	2	. Adaptor, galvanised, M/F, 1" x $\frac{3}{4}$ " BSP
4	023862	1	. Filter (complete)
5	023863	1	. . Filter, element
6	013757	1	Valve, ball, $\frac{3}{4}$ " BSP
7	011161	1	. Adaptor, M/M, $\frac{3}{4}$ " BSP
	011155	1	. Seal, Dowty, $\frac{3}{4}$ " BSP
8	011210	1	. Elbow, hose tail, $\frac{3}{4}$ " BSP x 1" hose
9	010916	2	. Adaptor, galvanised, M/M, $\frac{3}{4}$ " BSP
10	010917	1	. Elbow, galvanised, M/F, $\frac{3}{4}$ " BSP
11	010933	1	. Connector, M/M, $\frac{3}{4}$ " BSP
12	010919	2	. Tee, galvanised, F/F/F, $\frac{3}{4}$ " BSP
13	010946	2	. Adaptor, galvanised, M/F, $\frac{3}{4}$ " x $\frac{3}{8}$ " BSP
14	010930	2	. Hose tail, $\frac{3}{8}$ " BSP x $\frac{5}{8}$ " hose
15	010101	1	. Valve, flow control, $\frac{3}{4}$ " BSP
16	011164	1	. Adaptor, M/M, $\frac{3}{4}$ " x $\frac{1}{4}$ " BSP
17	011743	1	. Valve, ball, $\frac{1}{4}$ " BSP



Low Pressure Water Pump - Roller - Arrangement

<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Low Pressure Water Pump - Roller - Components			
1	037893	1	Pump, body, complete
2	045203	1	. Shaft, drive
3	045531	1	. Key, drive
4	045346	1	. Key, drive
5	046660	1	. Rota
6	045299	1	. . O-ring
7	045300	2	. . Seal (Viton)
8	045301	2	. . Bearing
9	045204	1	. . . Cover, bearing
10	040906	1	. Motor, hydraulic
11	040905	1	Repair kit, coupling
12	045530	1	Coupler, large
13	045529	1	Spacer, small
14	037894	1	Repair kit, roller

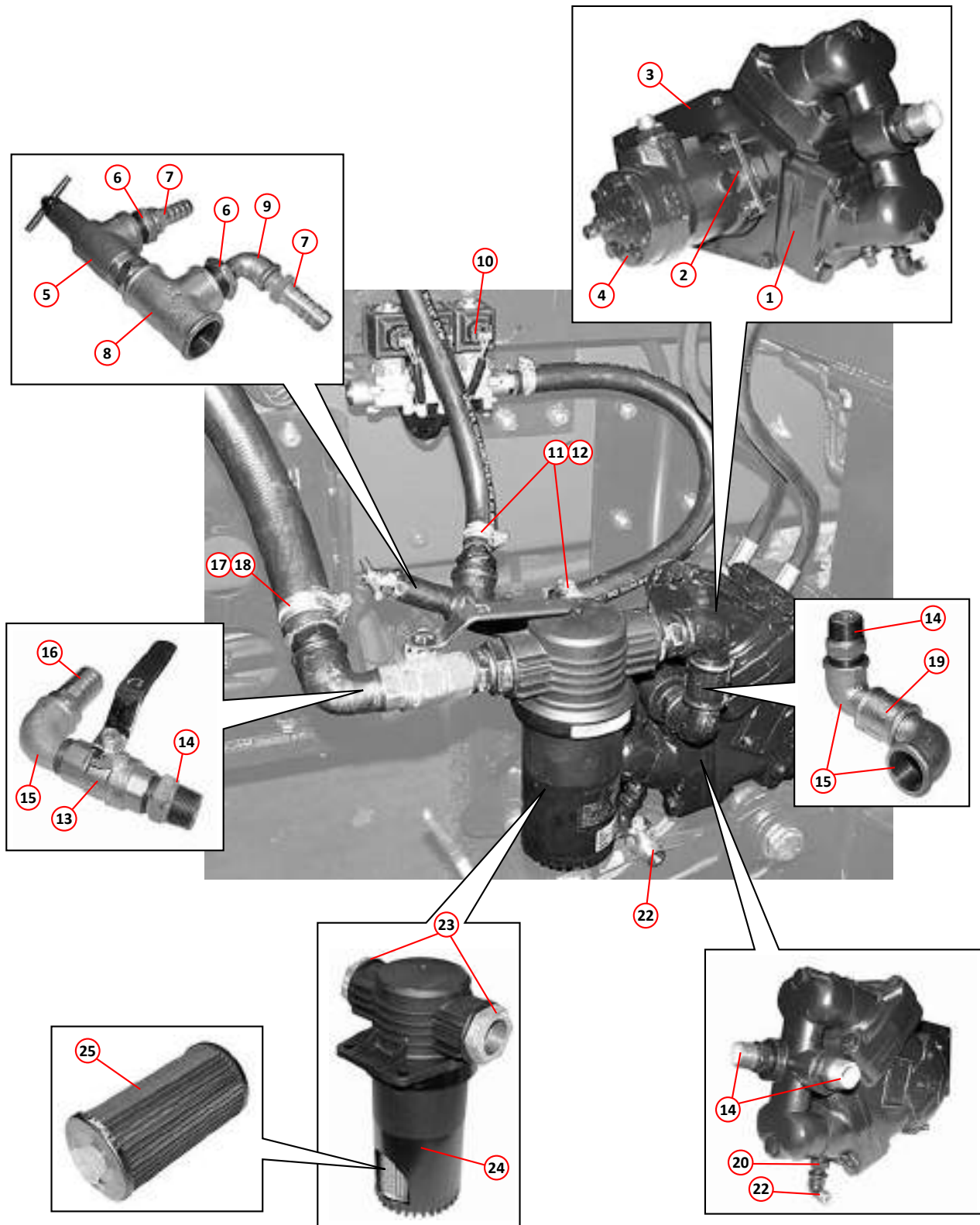


Low Pressure Water Pump - Roller - Components

Item	Part Number	Quantity	Description
Low Pressure Water Pump - Twin Diaphragm - Arrangement - Pre 2016			
1	024385 *	1	Pump, twin diaphragm, assembly
NI	010903	1	. Greasing point, straight, $\frac{1}{8}$ " BSP
NI	024241	1	. Locating ring
2	024245	2	. Clamp, pump
3	024243	1	. Plate, pump mounting
NI	014873	4	. Spacer 37 x 20 x 11
	011018	4	. . Bolt, M8 x 90mm
	011073	4	. . Nut, M8, Nyloc
NI	024908	4	. . Stud
	011073	4	. . . Nut, M8, Nyloc
4	013527	1	. Motor, hydraulic Page 508
5	010101	1	. Valve, pressure relief, $\frac{3}{4}$ " BSP
6	010946	2	. . Adaptor, galvanised, M/F, $\frac{3}{4}$ " x $\frac{3}{8}$ " BSP
7	010930	2	. . Hose tail, $\frac{3}{8}$ " BSP x $\frac{5}{8}$ " hose
8	010919	1	. . Tee, galvanised, F/F/F, $\frac{3}{4}$ " BSP
9	010913	1	. . Elbow, galvanised, M/F, $\frac{3}{8}$ " BSP
10		1	. Water valve assembly Page 410
11	010517	4	. . Clamp, worm drive, 18-25mm
12	011000	AR	. . . Tube, rubber, $\frac{5}{8}$ " bore
13	013757	1	. Valve, ball, $\frac{3}{4}$ " BSP
14	010916	2	. . Adaptor, galvanised, M/M, $\frac{3}{4}$ " BSP
15	010917	3	. . Elbow, galvanised, M/F, $\frac{3}{4}$ " BSP
16	010931	1	. . Hose Tail, $\frac{3}{4}$ " BSP x 1" hose
17	010518	2	. . Clamp, worm drive, 30-40mm
18	010959	AR	. . . Tube, rubber, 1" bore
19	010934	1	. . Socket, galvanised, F/F, $\frac{3}{4}$ " BSP
20	010944	1	. Adaptor, galvanised, M/M, $\frac{1}{4}$ " BSP
21	010910	1	. Elbow, galvanised
22	011743	1	. . Valve, Ball, $\frac{1}{4}$ " BSP
23	000154	2	. . Adaptor, galvanised, M/F, 1" x $\frac{3}{4}$ " BSP
24	023862	1	. Filter (complete)
25	023863	1	. . Filter, element
NI	023897	1	. . O-ring

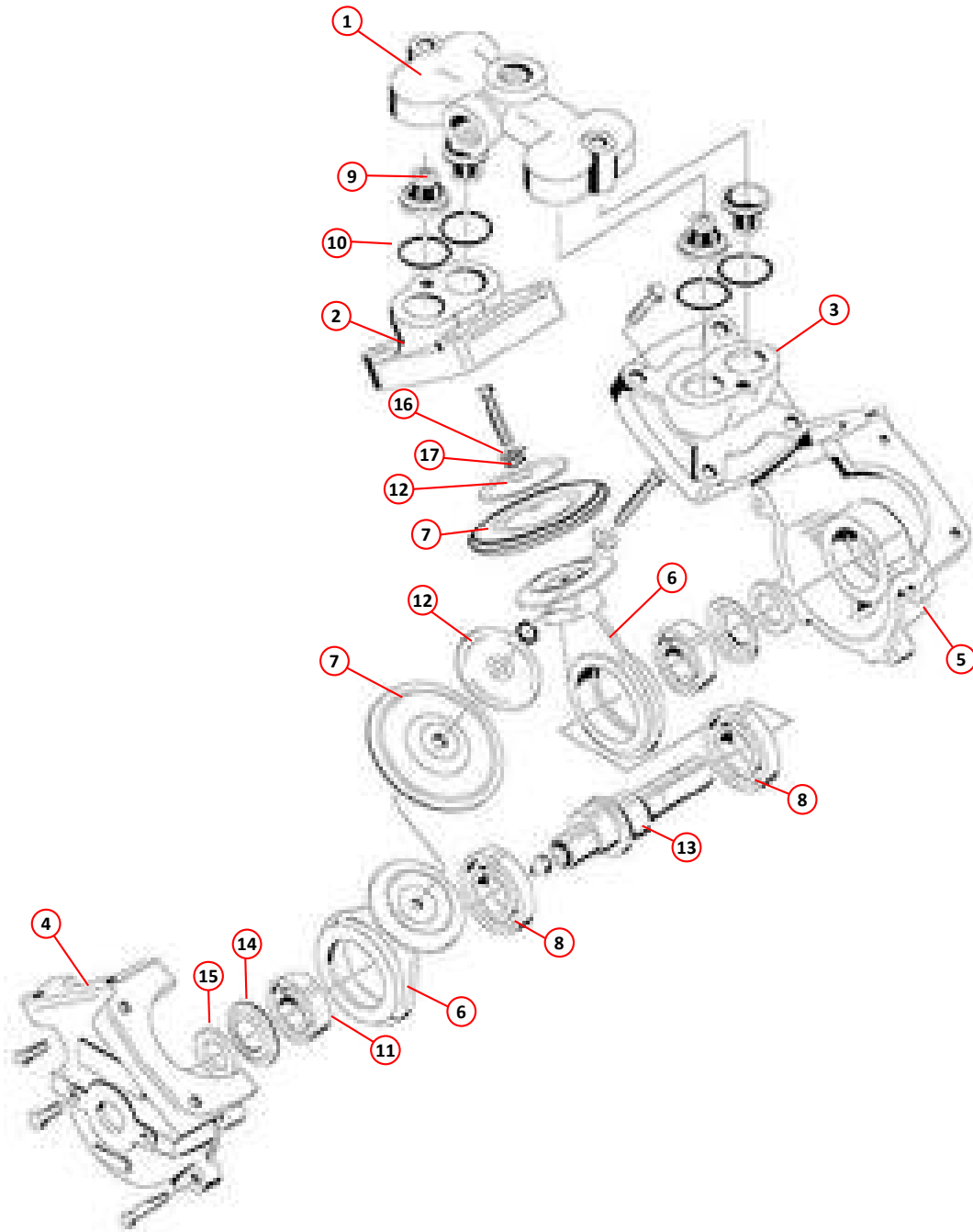
Notes:-

* A service exchange unit is available by ordering part number 024385SE.



Low Pressure Water Pump - Twin Diaphragm

<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Low Pressure Water Pump - Twin Diaphragm - Components			
1	020460	1	Pump bridge
2	020464	1	Pump head (mod)
3	020463	1	Pump head
4	020461	1	Pump crankcase
5	020462	1	Pump crankcase (mod)
6	014682	2	. Conrod
7	013629	2	. Diaphragm
8	013522	2	. Bearing, ball 6007
9	013627	4	. Poppet valve
10	013628	1	. . Sealing ring
11	022726	1	. Bearing ball 6205
12	014882	2	. Pump backing plate
13	014869	1	. Pump eccentric
14	014881	1	. Retainer
15	014879	1	. . Felt washer
16	031560	2	. Seal
17	031561	2	. Washer



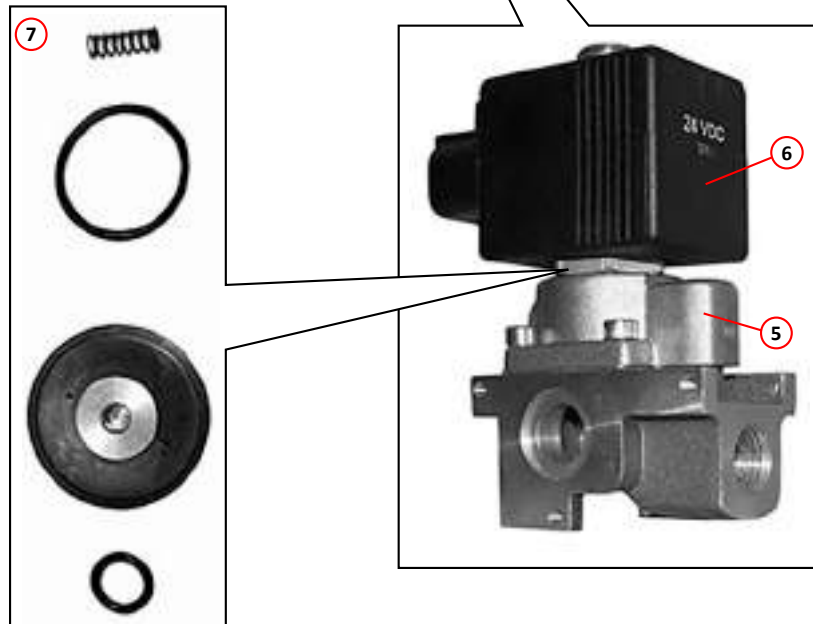
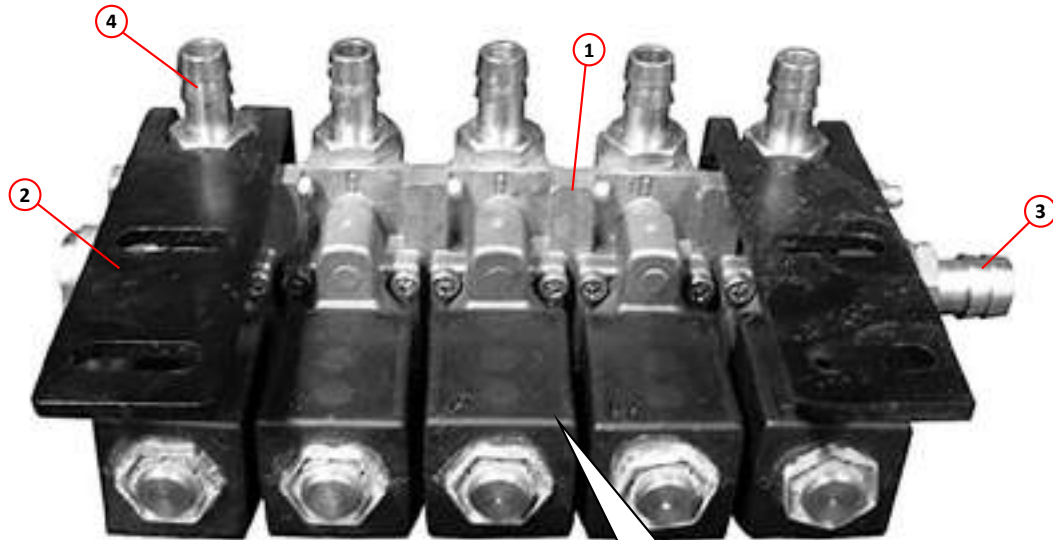
Low Pressure Water Pump - Twin Diaphragm - Components

Item	Part Number	Quantity	Description
			Water Valve Assembly *
1	037033	1	Water valve, 2 way assembly, complete
1	037034	1	Water valve, 3 way assembly, complete
1	037035	1	Water valve, 4 way assembly, complete
1	037036	1	Water valve, 5 way assembly, complete (shown)
1	037037	1	Water valve, 6 way assembly, complete
1	037038	1	Water valve, 7 way assembly, complete
2	034616	2	. Mounting bracket
3	010930	AR	. Hose tail, $\frac{3}{8}$ " BSP X $\frac{5}{8}$ " hose
NI	010517	1	. . Clamp, worm drive, 18-25mm
4	010922	AR	. Hose tail, $\frac{1}{4}$ " BSP x $\frac{3}{8}$ " hose
NI	010516	AR	. . Clamp, worm drive, 11-18mm
NI	010950	AR	. . Hose, plastic reinforced, $\frac{3}{8}$ " bore
5	037969	AR	. . Solenoid, complete body assembly, BSV122NC24D
6	037059	AR	. . Coil, 24 Volt, 8 Watt, BVC24D
7	034624	AR	. . Repair kit, BSVRK
8	037995	1	. Water splash cover
NI	038070	1	. Water splash cover (Merlin XP)
	011012	2	. . Set screw, M8 x 30mm
	011092	2	. . Washer, M8
	011072	2	. . Nut, M8
NI	000248	2	. . Plastic knob

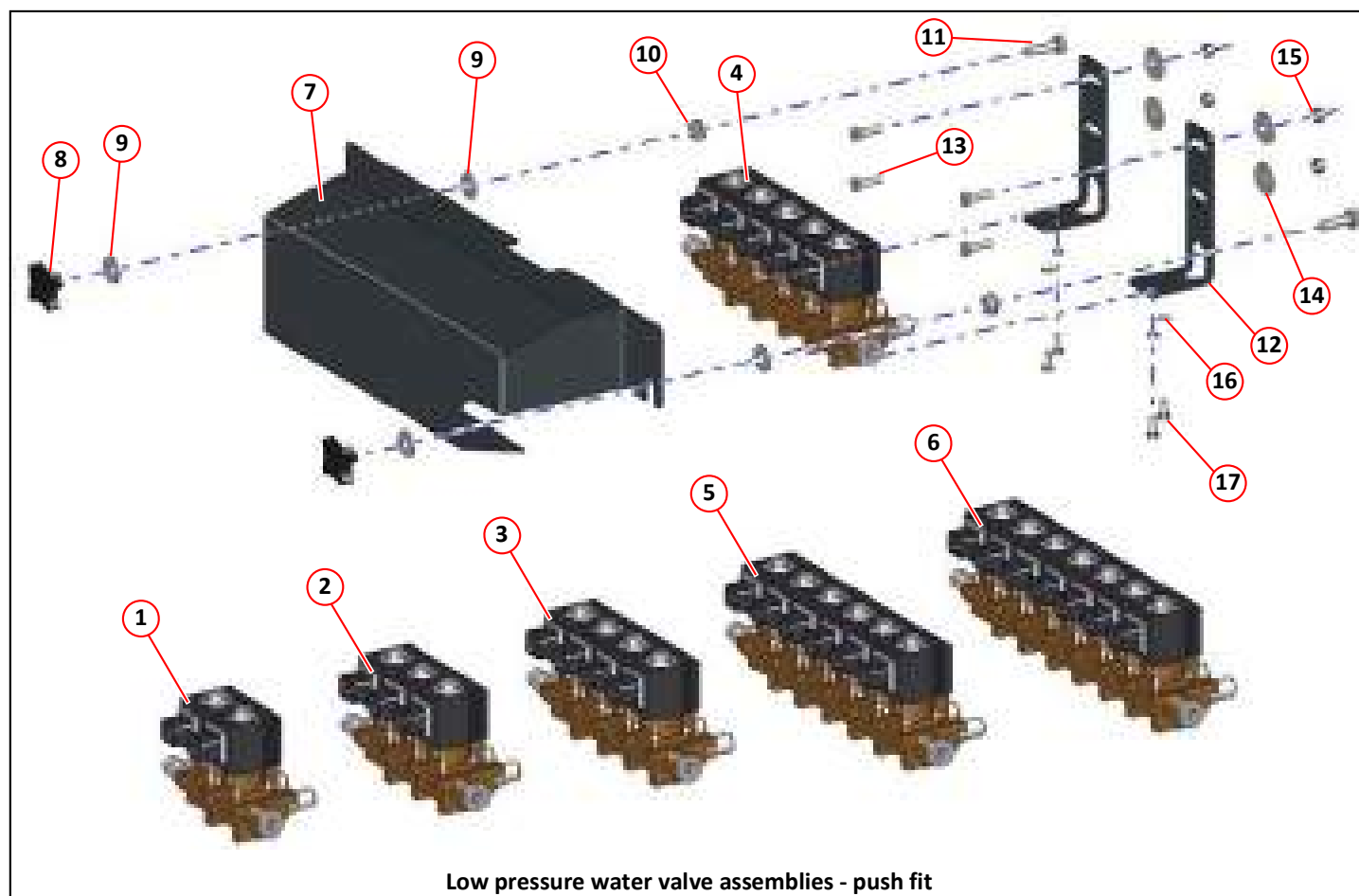
Notes:-

- * The number of valves and related fittings, is dependent on chassis/options fitted, and therefore, which version of Item 1 has been installed.

View on Opposite Face

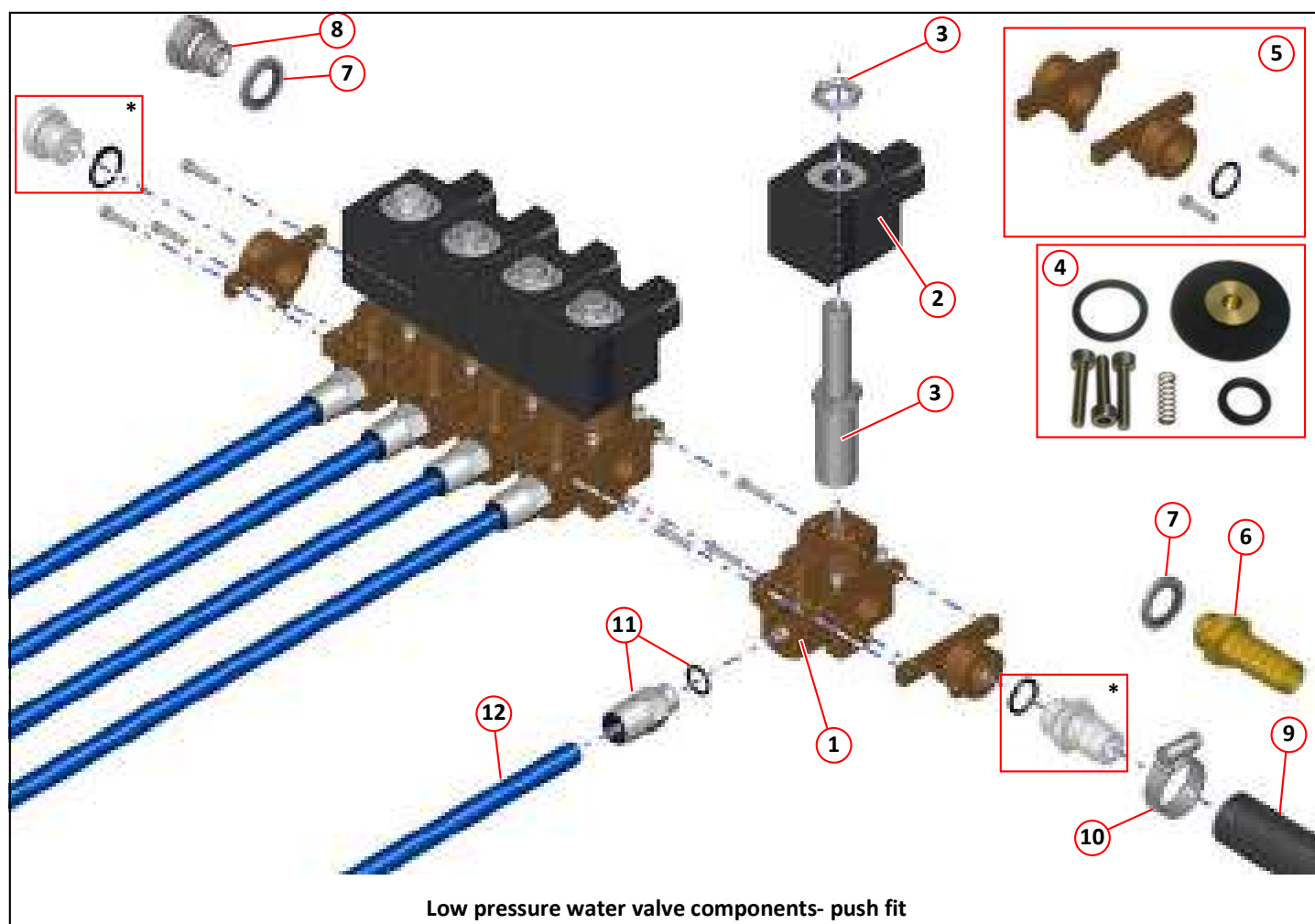


Water Valve Assembly



Item	Part Number	Qty	Description
Low pressure water valve assemblies - push fit			
1	SCA047691	1	Water valve assembly push fit - 2 valves
2	SCA047693	1	Water valve assembly push fit - 3 valves
3	SCA047695	1	Water valve assembly push fit - 4 valves
4	SCA047697	1	Water valve assembly push fit - 5 valves
5	SCA047699	1	Water valve assembly push fit - 6 valves
6	SCA047701	1	Water valve assembly push fit - 7 valves
7	SCA037995	1	Water valve splash cover
8	SCA000248	2	Grip nut M8
9	SCA011092	4	Washer M8
10	SCA000185	2	Nut M8, plain faced flange, plated
11	SCA011011	2	Setscrew HT M8 x 25
12	SCA034616	2	Water valve mounting bracket
13	SCA011067	4	Setscrew HT M6 x 20
14	SCA011099	4	Washer, repair, $\frac{1}{4}$ " X 1" OD
15	SCA011071	4	Nyloc nut M6
16	SCA000410	4	Washer M5
17	SCA000097	4	Bolt M5 x12

i If using the 7 valve assembly then an extra bracket ⑫ and associated fittings are used.



Low pressure water valve components- push fit

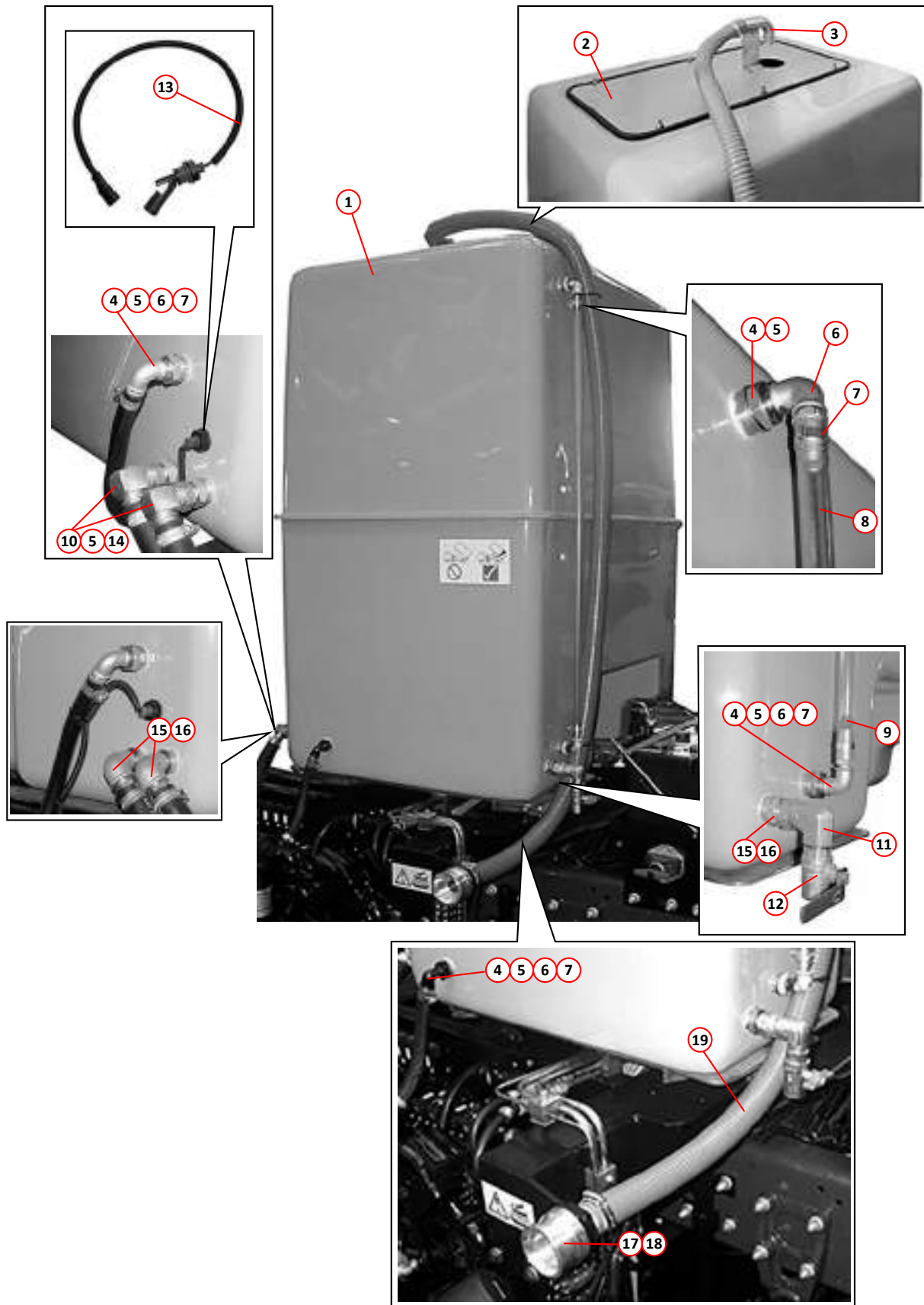
Item	Part Number	Qty	Description
Low pressure water valve components - push fit			
1	SCA037969	1	Water valve, includes items ② and ③
2	SCA037059	1	Coil 24V/8W, Deutsch connector
3	SCA034625	1	Solenoid valve, include nut
4	SCA034624	1	Service repair kit, water valve
5	SCA045753	1	Service kit, water valve
6	SCA010930	1	Adapter $\frac{3}{8}$ BSP $\frac{5}{8}$ hose tail
7	SCA011153	2	Dowty seal $\frac{3}{8}$ BSP
8	SCA011242	1	Plug $\frac{3}{8}$ BSP
9	SCA011000	1	Hose, $\frac{5}{8}$, fuel SAE100R6, cut to length required, from water pump
10	SCA010517	1	Jubilee clip, No OX [Ø18 - Ø25]
11	SCA047715	1	Connector, push in Ø10mm x $\frac{1}{4}$ BSP male
12	SCA041031	1	Blue flexible nylon tubing, Ø10mm, cut to length as required

 * These are original fitment parts. See items ⑥, ⑦ and ⑧ for replacements.

Item	Part Number	Quantity	Description
GRP Water Tank Assembly - 900 litre and 1250 litre			
1	026324	1	Water tank, 900 litres
1	026325	1	Water tank, 1250 litres
	012969	14	. Washer, rubber, $\varnothing 40 \times 12 \times 6$
	011096	7	. Washer M12
	011077	7	. Nut, Nyloc, M12
2	025271 *	1	. Lid, water tank
	013951	AR	. . Lid seal
NI	025893	1	. Tank base (900 litre)
NI	028338	1	. Tank base (1250 litre)
	011051	5	. . Set screw, M12 x 25mm
	011096	10	. . Washer, M12
	011077	5	. . Nut, M12, Nyloc
3	024586 *	1	. Hydrant filler pipe
	011010	2	. . Set screw, M8 x 20mm
	011072	8	. . Nut, M8, Nyloc
	011092	6	. . Washer, M8
4	011224	4	. Adaptor, M/M, $\frac{3}{4}'' \times \frac{3}{8}''$ BSP
5	011155	1	. . Seal, Dowty, $\frac{3}{4}''$ BSP
6	010915	4	. Elbow, galvanised, F/F, $\frac{3}{8}''$ BSP
7	010930	4	. Hose tail, $\frac{3}{8}''$ BSP x $\frac{5}{8}''$ hose
8	001046	AR	. Hose $\frac{5}{8}''$ clear
9	025335	1	. . Ball, plastic, $\varnothing \frac{1}{2}''$
	000202	2	. . O-Clip $\frac{7}{8}''$
10	011161	3	. Adaptor, M/M, $\frac{3}{4}''$ BSP
11	011174	1	. Elbow, swivel, M/F, $\frac{3}{4}''$ BSP
12	013757	1	. . Ball valve $\frac{3}{4}''$ BSP
13	036871	1	. Switch, water level Page 556
14	002079	2	. Elbow, swivel, hose tail, $\frac{3}{4}''$ BSP x 1" hose (900 litre tanks)
15	010918	2	. Elbow, galvanised, M/F, $\frac{3}{4}''$ BSP, (1250 litre tanks)
16	010931	1	. . Hose tail, $\frac{3}{4}'' \times 1$ tube, (1250 litre tanks only)
17	013169 *	1	. Hydrant adaptor
18	003026 *	1	. . Back-nut, $1\frac{1}{2}''$ BSP
19	001045 *	AR	. . Hose, green, medium duty $1\frac{1}{2}''$

Notes:-

* Reversed position on opposite side, on LH drive vehicles.

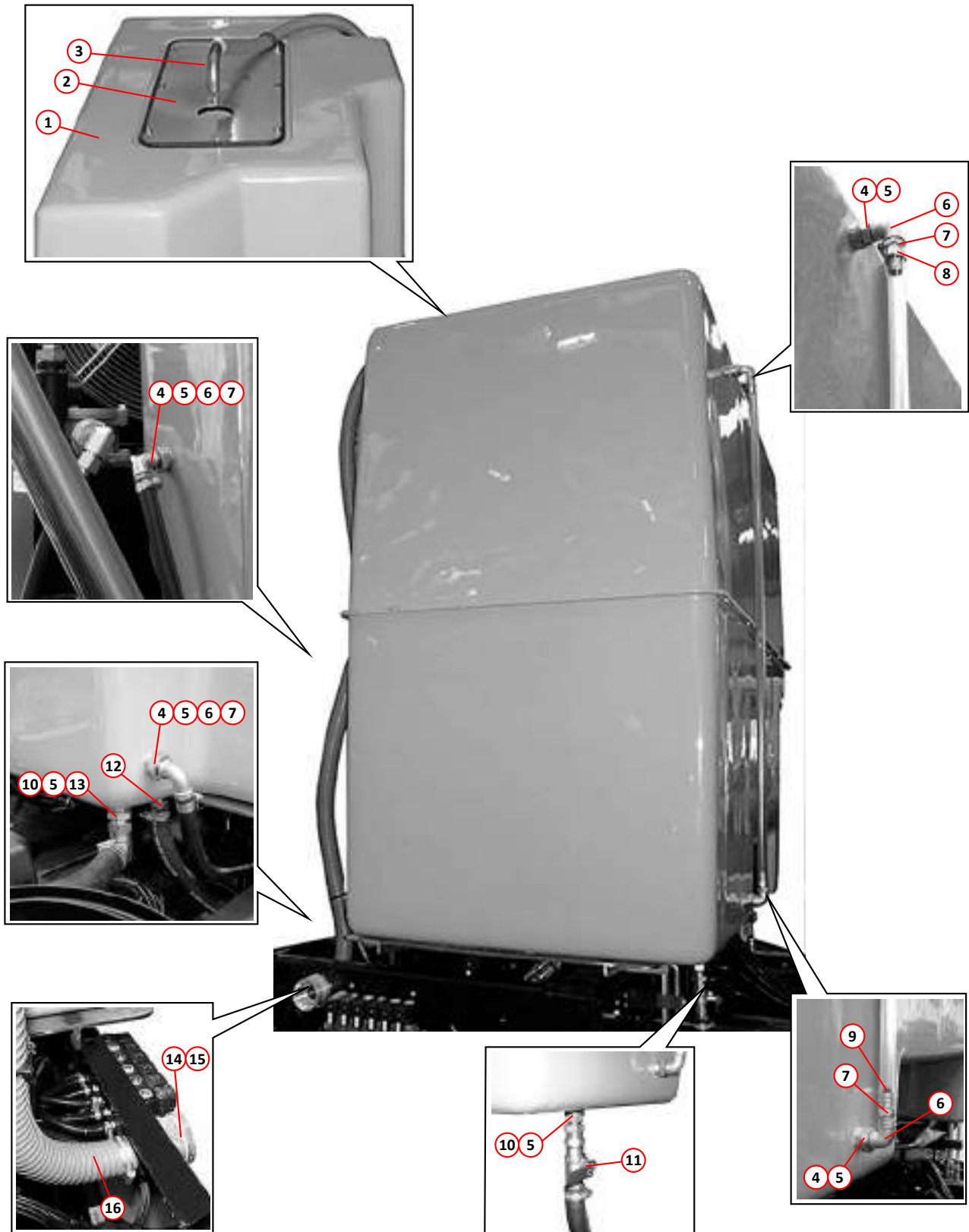


GRP Water Tank 900 and 1250 litre
Right Hand Drive Vehicle Shown

Item	Part Number	Quantity	Description
GRP Water Tank Assembly - 1800 litre			
1	026326	1	Water tank (GRP), 1800 litre
	012969	7	. Washer, rubber, $\varnothing 40 \times 12 \times 6$
	011096	7	. Washer M12
	011077	7	. Nut, M12, Nyloc
NI	014743	1	. Support mat, rubber
2	025271 *	1	. Lid, water tank
	013951	AR	. . Lid seal
NI	024984	1	. Tank base
	011051	6	. . Set screw, M12 x 25mm
	011096	12	. . Washer, M12
	011077	6	. . Nut, M12, Nyloc
3	024586 *	1	. Hydrant filler pipe
	011010	2	. . Set screw, M8 x 20mm
	011072	8	. . Nut, M8, Nyloc
	011092	6	. . Washer, M8
4	011224	4	. Adaptor, M/M, $\frac{3}{4}$ " x $\frac{3}{8}$ " BSP
5	011155	6	. . Seal, Dowty, $\frac{3}{4}$ " BSP
6	010915	4	. Elbow, galvanised, F/F, $\frac{3}{8}$ " BSP
7	010930	4	. Hose tail, $\frac{3}{8}$ " BSP x $\frac{5}{8}$ " hose
8	001046	AR	. Hose $\frac{5}{8}$ " clear
9	025335	1	. . Ball, plastic, $\varnothing \frac{1}{2}$ "
	000202	2	. . O-Clip $\frac{7}{8}$ "
10	011161	3	. Adaptor, M/M, $\frac{3}{4}$ " BSP
11	013757	1	. Ball valve $\frac{3}{4}$ " BSP
12	010931	2	. Hose Tail, $\frac{3}{4}$ " x 1" tube
13	002079	2	. Elbow, swivel, hose tail, $\frac{3}{4}$ " BSP x 1" hose
14	013169 *	1	. Hydrant adaptor
15	003026 *	1	. . Back-nut, $1\frac{1}{2}$ " BSP
16	001045 *	AR	. . Hose, green, medium duty $1\frac{1}{2}$ "
NI	036871	1	. Switch, water level Page 556

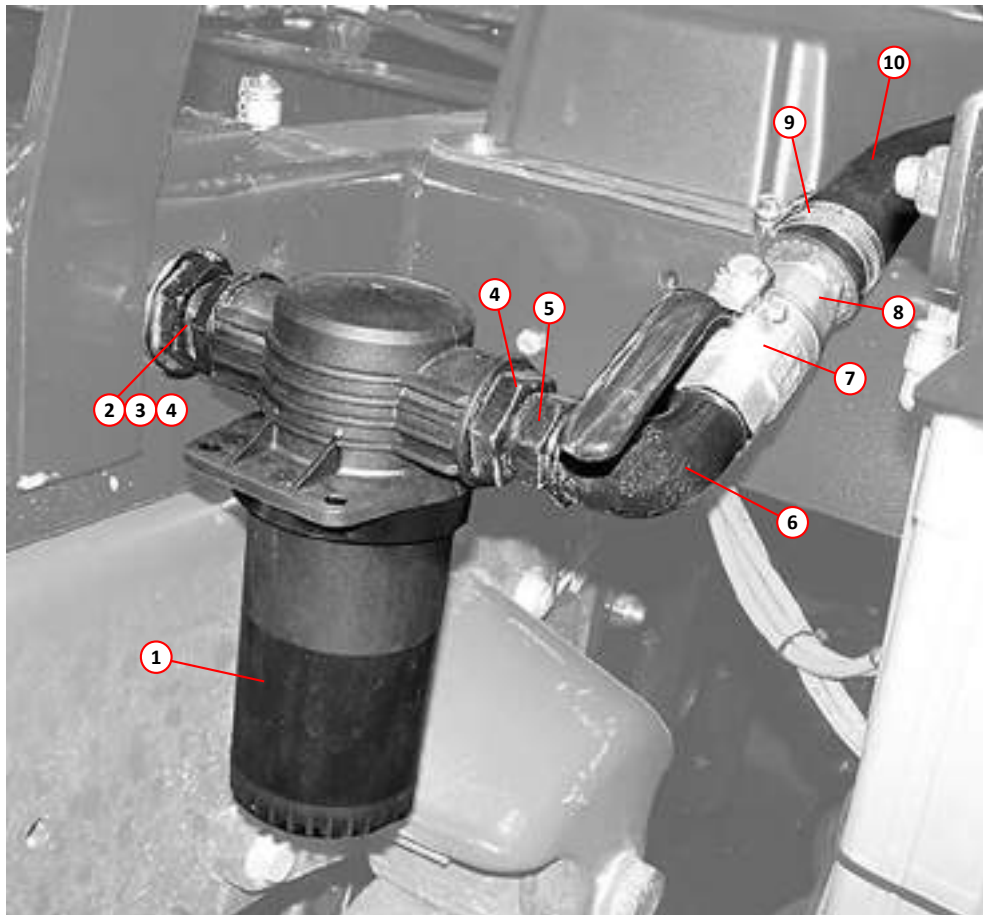
Notes:-

* Reversed position on opposite side, on LH drive vehicles.



GRP Water Tank 1800 litre
Right Hand Drive Vehicle Shown

<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Water Filter Assembly - High-Pressure Pump			
1	023862	1	Filter, water
NI	023863	1	. Element, gauze
NI	023897	1	. O-Ring
2	024924	1	. Hose tail, galvanised, $\frac{3}{4}$ " BSP
3	010935	2	. Back nut, galvanised, $\frac{3}{4}$ " BSP
4	000154	2	. Adaptor, galvanised, M/M, 1" x $\frac{3}{4}$ " BSP
5	010916	1	. Adaptor, galvanised, M/M, $\frac{3}{4}$ " BSP
6	010917	1	. Elbow, galvanised, M/F, $\frac{3}{4}$ " BSP
7	013757	1	. . Ball valve $\frac{3}{4}$ " BSP
8	010931	1	. . Hose tail, 1" x $\frac{3}{4}$ " BSP
9	010518	2	. . . Clamp, worm drive, 30-40mm
10	010959	AR	. . . Hose, rubber, 1" bore



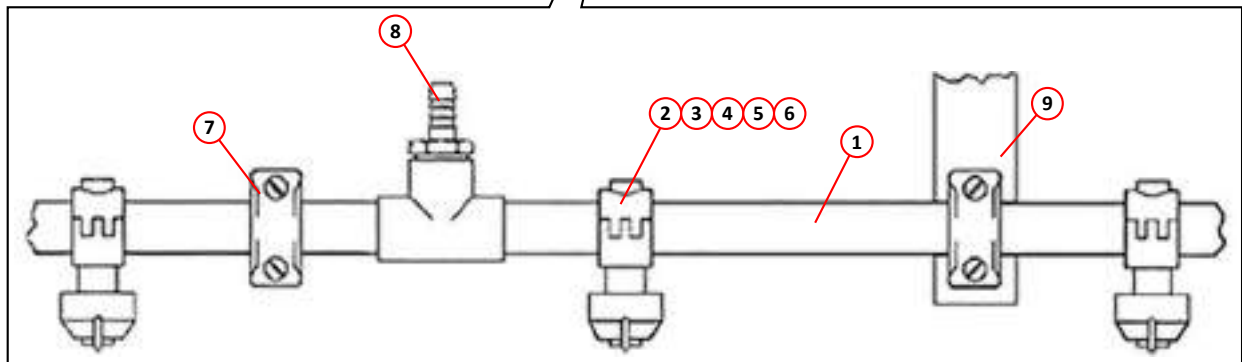
Water Filter Assembly - High Pressure Pump

Item	Part Number	Quantity	Description
Low Pressure Front Spray Bar - Plastic			
1	030323	1	Low pressure spray bar
2	030632	7	. Jet
3	030634	7	. Nozzle holder
4	030635	7	. Cap jet
5	030633	7	. Filter
6	030636	7	. Washer, rubber
7	031338	2	Clamp
8	031339	1	Hose tail
9	*	3	Bracket

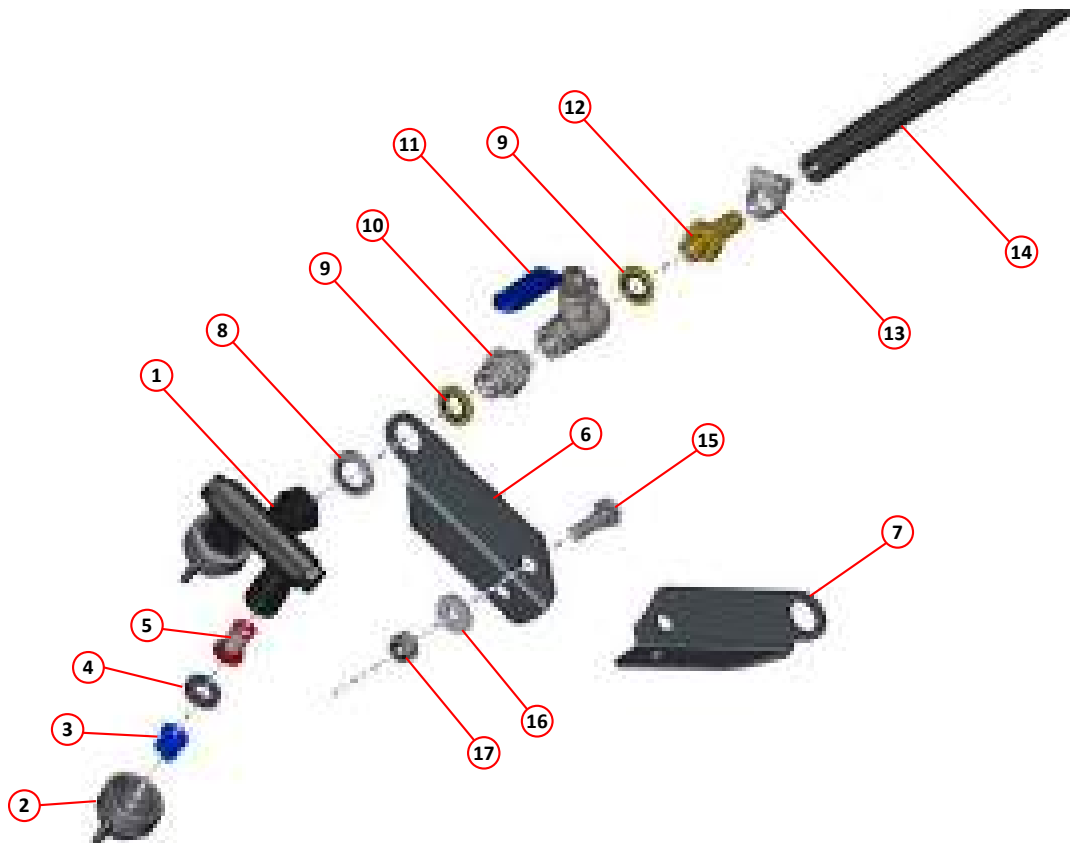
Item	Part Number	Quantity	Description
Low Pressure Side Brush Spray Nozzle			
1	036044	1	Spray jet assembly complete, includes items 2,3,4,5,6
2	030635	2	Spray body cap
3	030748	2	Spray jet
4	030636	2	Washer, rubber
5	030633	2	Filter
6	036042	1	Bracket, double spray jet, RH
7	036043	1	Bracket, double spray jet, LH
8	011153	1	Dowty seal $\frac{3}{8}$ " BSP
9	011152	2	Dowty seal $\frac{1}{4}$ " BSP
10	011199	1	Adaptor, M/M, $\frac{3}{8}$ " x $\frac{1}{4}$ " BSP
11	011743	1	Valve, ball, $\frac{1}{4}$ " BSP
12	010922	1	Hose tail
13	010516	1	Clamp, worm drive, 11-16mm
14	010950	AR	Hose, water
15	011031	1	Setscrew, M8 x 25mm, stainless steel
16	011092	1	Washer, M8
17	011073	1	Nut, M8, Nyloc

Notes:-

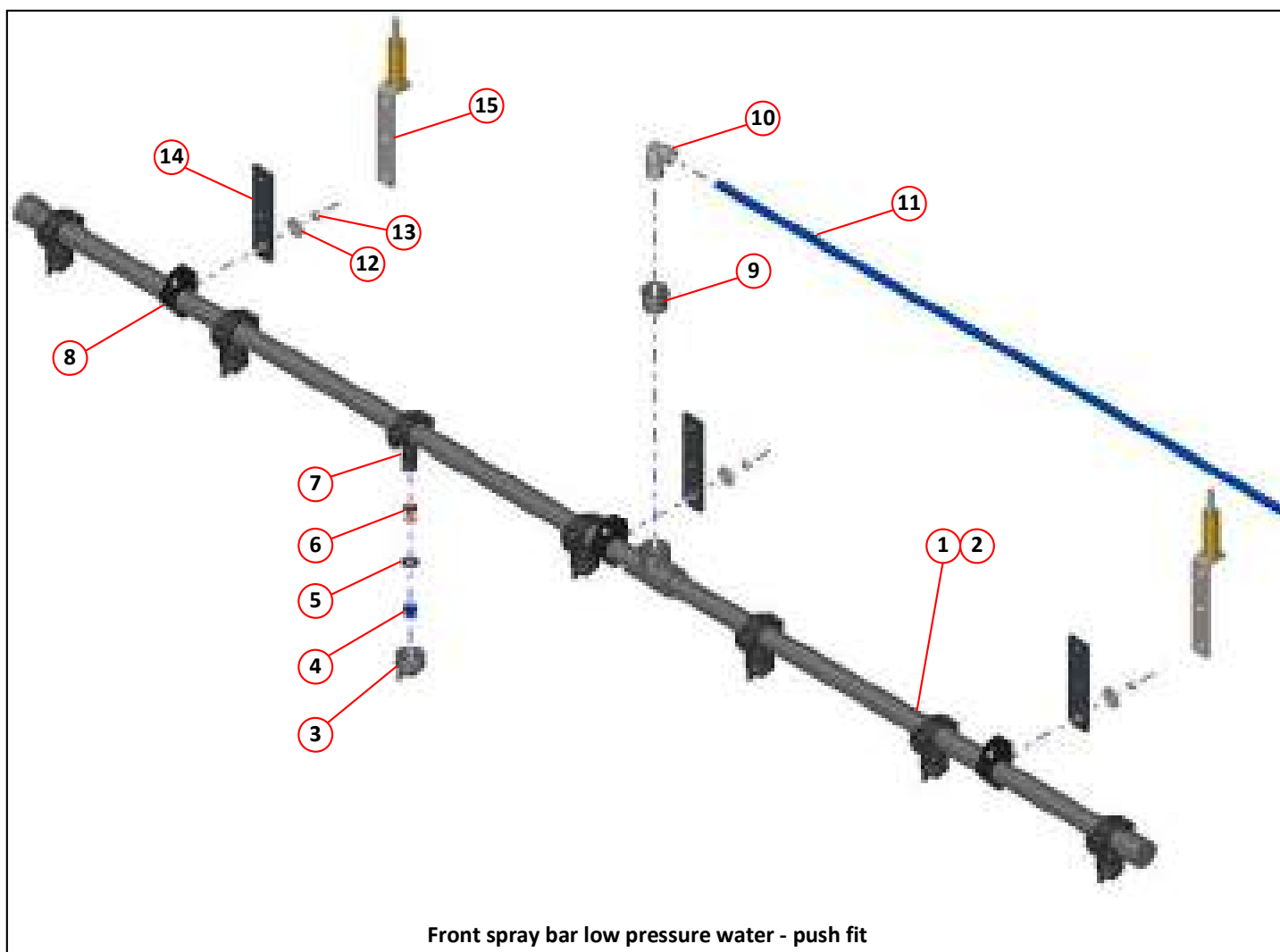
* This item is chassis specific, please contact Scarab Parts Department.



Low Pressure Spray Bar



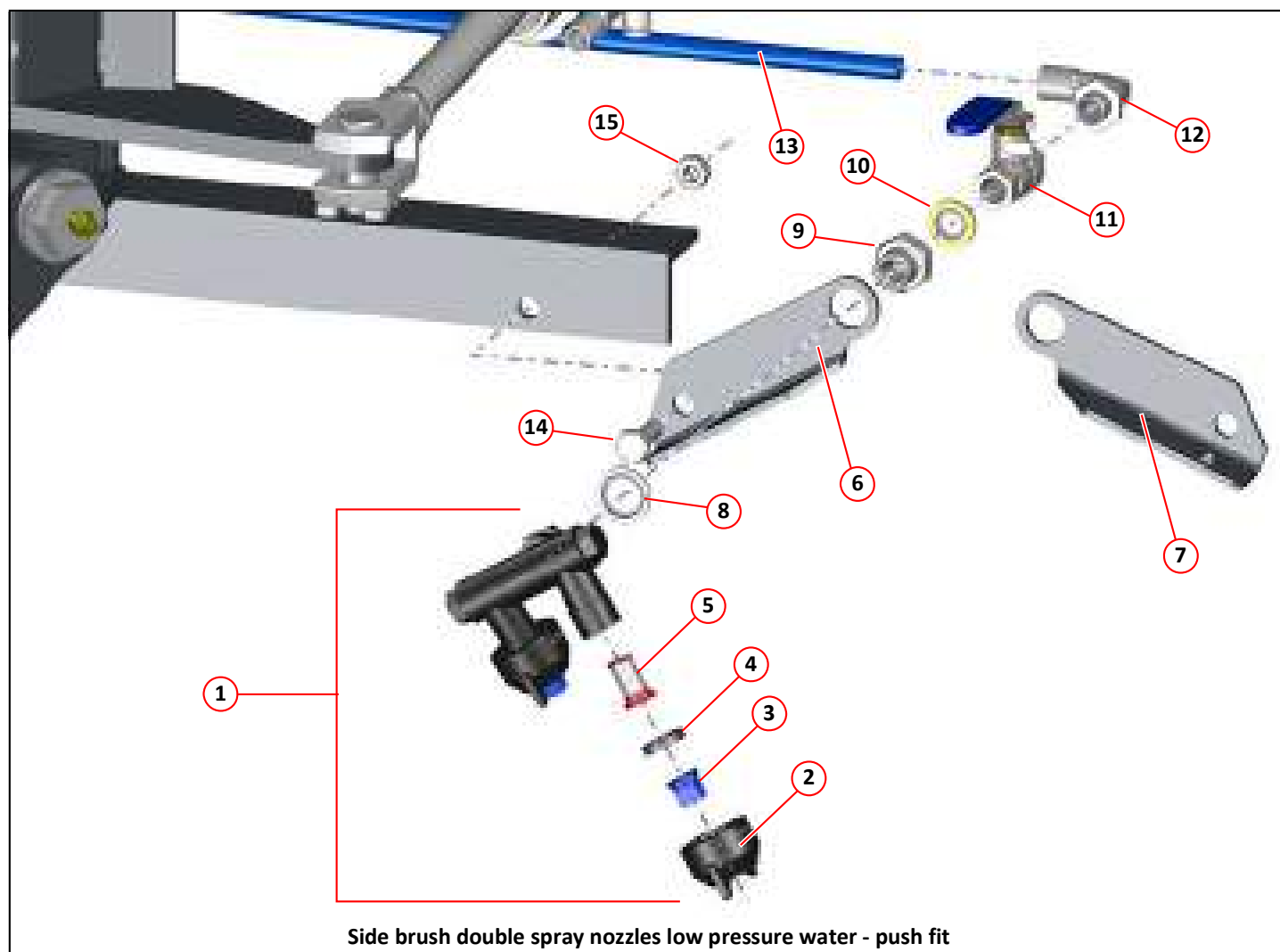
Side Brush Low Pressure Spray Nozzle



Item	Part Number	Qty	Description
Font spray bar low pressure water - push fit			
1	SCA047716	1	Front spray bar, low pressure, includes items ③, ④, ⑤, ⑥, ⑦, and ⑧
2	SCA047718	1	Front spray bar assembly, low pressure, includes items ①, ⑨, and ⑩
3	SCA030635	1	Nozzle cap, flat fan, per nozzle
4	SCA030748	1	Jet, blue, per nozzle
5	SCA030636	1	Rubber washer, per nozzle
6	SCA030633	1	Filter, 100 mesh, per nozzle
7	SCA030634	1	Nozzle holder, per nozzle
8	SCA031338	1	Clamp, per nozzle
9	SCA047717	1	Reducing bush, $\frac{3}{4}$ " to $\frac{1}{2}$ ", plastic
10	SCA006070	1	Elbow, swivel, $\varnothing 10\text{mm}$ push fit to $\frac{1}{2}$ "
11	SCA041031	1	Blue flexible nylon tubing, $\varnothing 10\text{mm}$
12	SCA011099	1	Repair washer, $\varnothing \frac{1}{4}$ " x 1", per bracket
13	SCA011071	1	Nyloc nut M6, per bracket
14	SCA030392*	1	Bracket, spray bar
15	SCA031921*	1	Bracket, spray bar

Notes:-

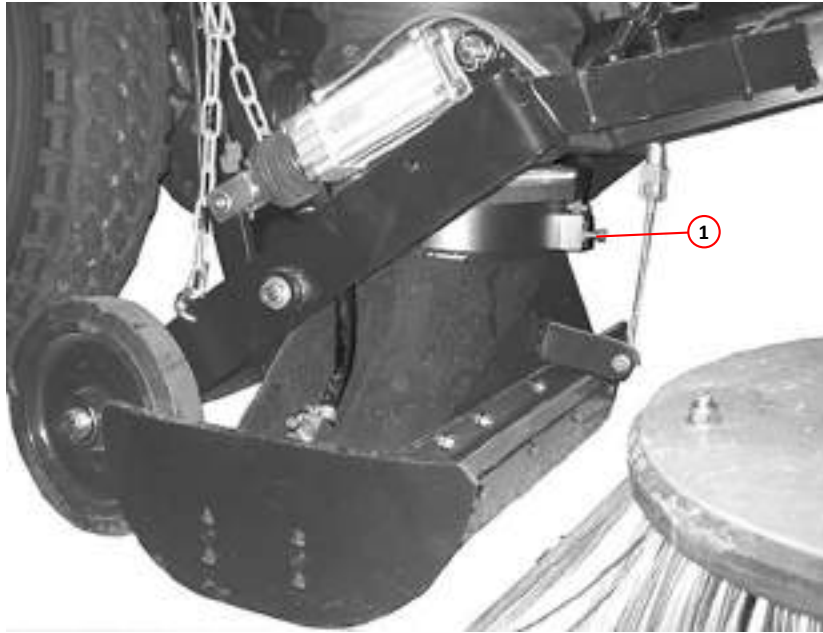
* Examples of spray bar mounting brackets, contact Parts Department with chassis information.



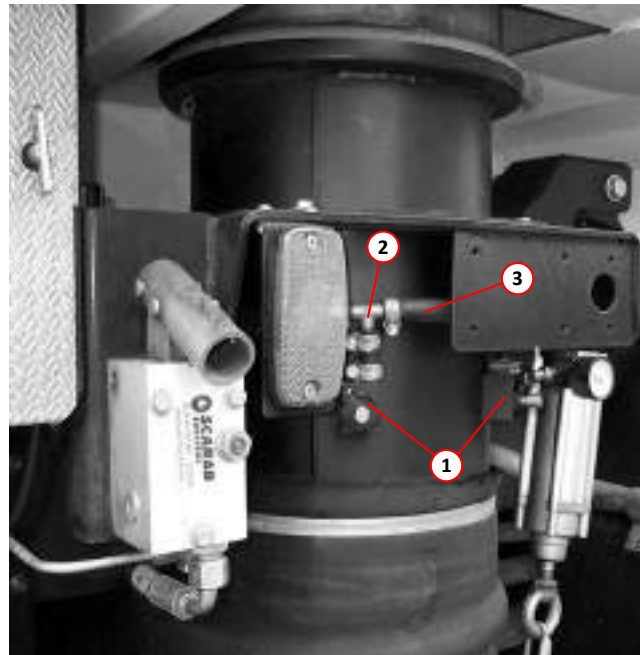
Item	Part Number	Qty	Description
Side brush double spray nozzles low pressure water - push fit			
1	SCA036044	1	Double swivel nozzle assembly
2	SCA030746	1	Nozzle cap, cone, per nozzle
3	SCA030748	1	Jet, blue, per nozzle
4	SCA030636	1	Rubber washer, per nozzle
5	SCA030633	1	Filter, 100 mesh, per nozzle
6	SCA036043	1	Nozzle bracket, L/H, for right hand side
7	SCA036042	1	Nozzle bracket, R/H, for left hand side
8	SCA011153	1	Dowty seal $\frac{3}{8}$ " BSP
9	SCA011199	1	Adapter $\frac{3}{8}$ " x $\frac{1}{4}$ " BSP
10	SCA011152	1	Dowty seal $\frac{1}{4}$ " BSP
11	SCA011743	1	Valve, ball, $\frac{1}{4}$ " BSP
12	SCA047602	1	Elbow, push in $\varnothing 10\text{mm}$ x $\frac{1}{4}$ " BSP
13	SCA041031	1	Blue flexible nylon tubing, $\varnothing 10\text{mm}$
14	SCA011011	1	Setscrew HT M8 x 25
15	SCA011073	1	Nyloc nut M8

<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Suction Box Dust Suppression			
1	013360	4	Jet assembly
	011001	4	. Bolt, M6 x 16mm
NI	003000	3	. Tee
NI	010950	AR	. . Hose, plastic reinforced, $\frac{3}{8}$ " bore
NI	010516	11	. . . Clamp, worm drive, 11-16mm

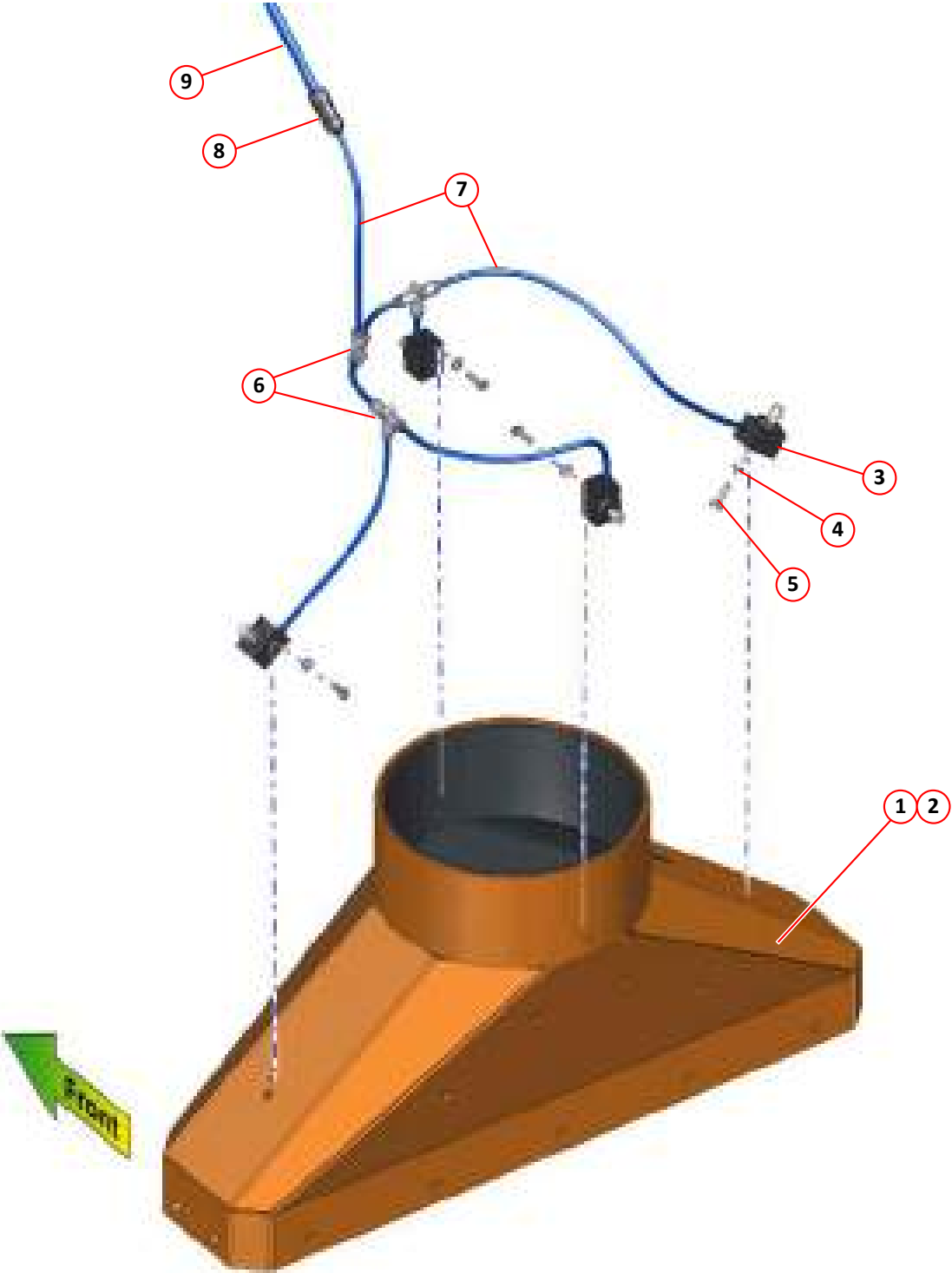
<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Suction Tube Dust Suppression			
1	013360	4	Jet assembly
	011001	4	. Bolt, M6 x 16mm
2	003000	5	. Tee
3	010950	AR	. . Hose, plastic reinforced, $\frac{3}{8}$ " bore
	010516	18	. . . Clamp, worm drive, 11-16mm



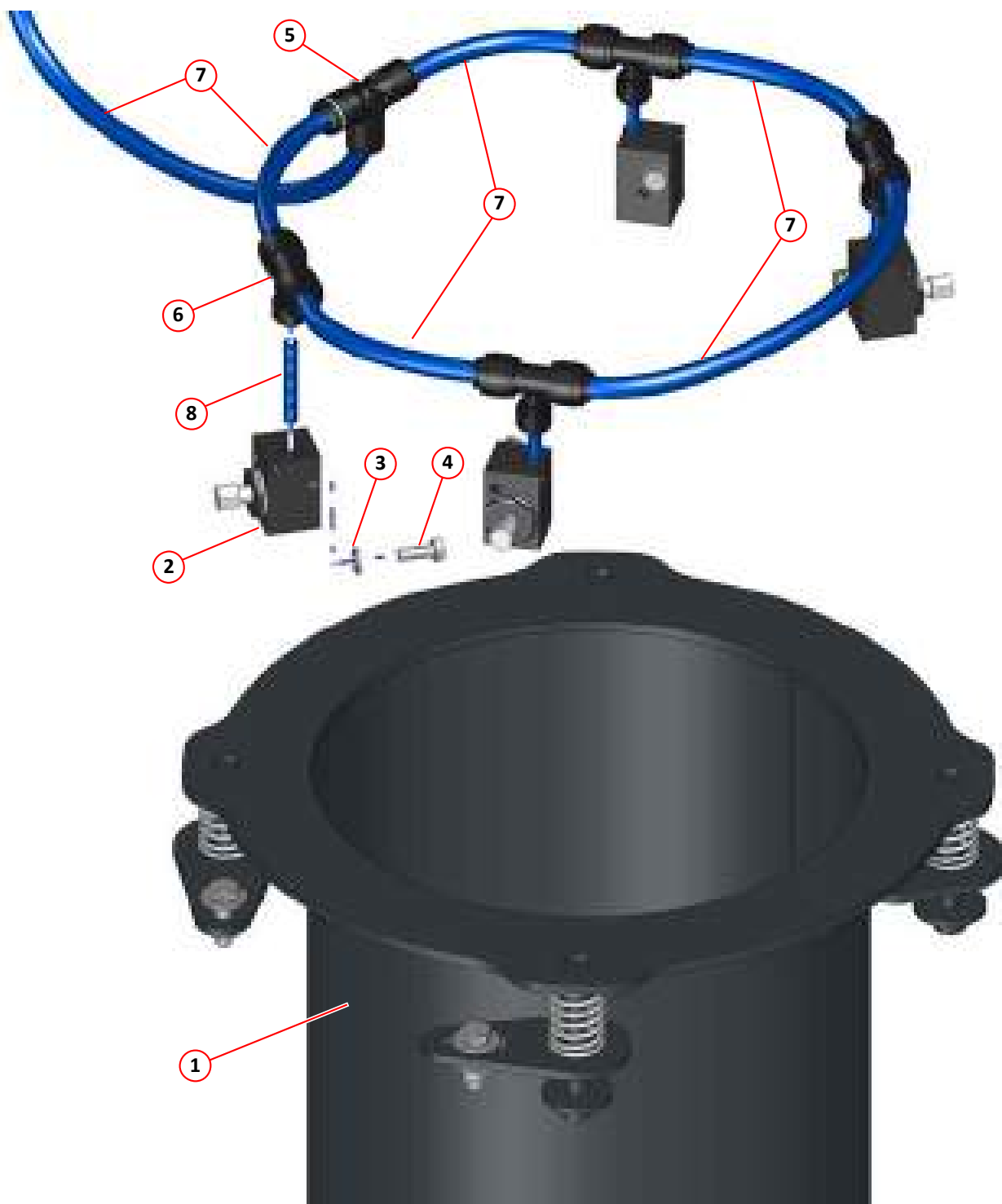
Suction Box Dust Suppression



Suction Tube Dust Suppression



Item	Part Number	Qty	Description
Suction nozzle low pressure water - push fit			
1	SCA047107	1	Suction nozzle
2	SCA047988	1	Suction nozzle, PU lined
3	SCA034342	4	Water nozzle, low pressure
4	SCA011091	4	Spring washer M6
5	SCA011067	4	Setscrew M6 x 20
6	SCA024647	3	6mm Tee, grey
7	SCA035733	6	Blue flexible nylon tubing, ø6mm
8	SCA041029	1	Push in adapter, ø10 to ø6mm
9	SCA041031	1	Blue flexible nylon tubing, ø10mm

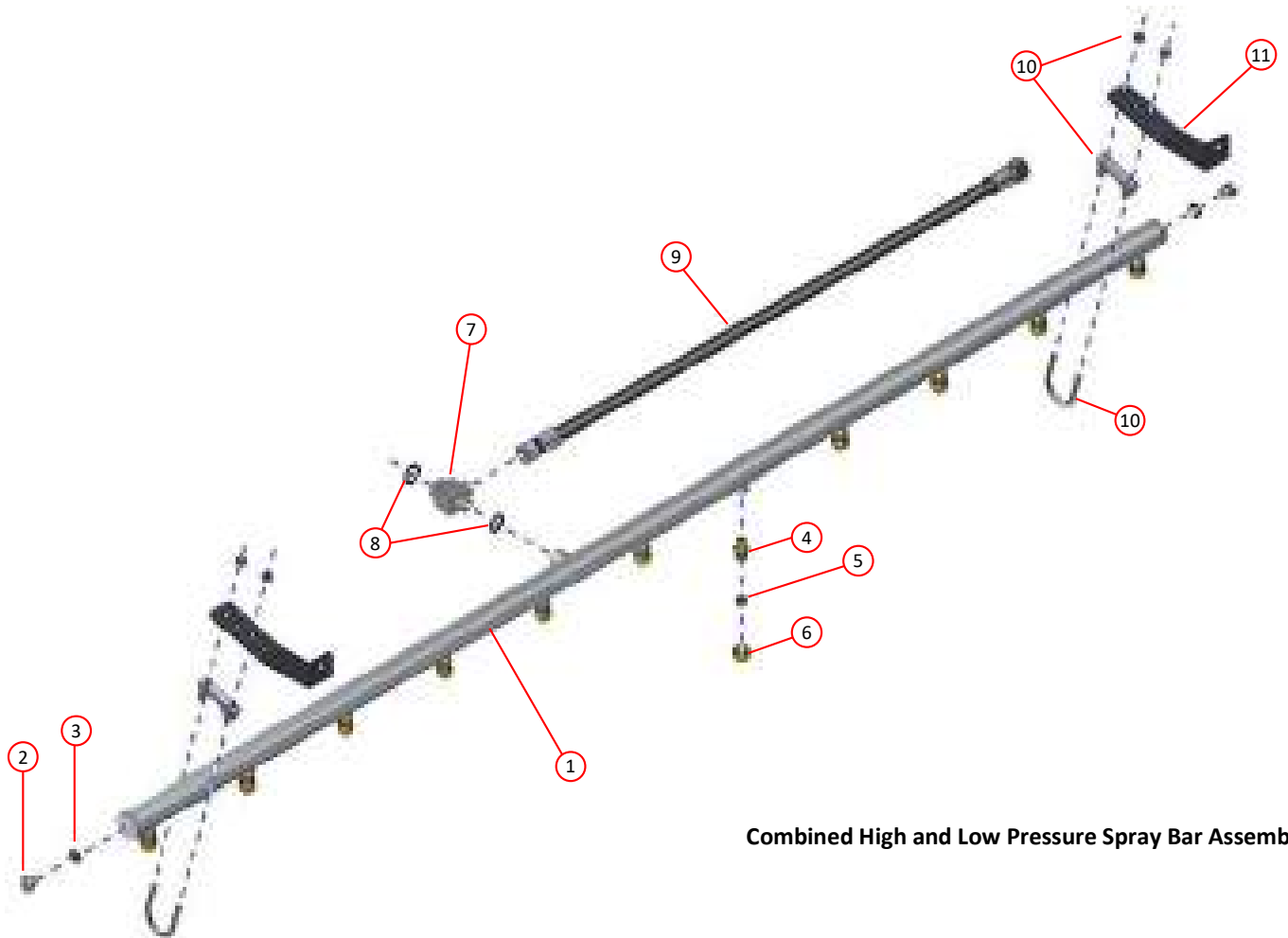


Item	Part Number	Qty	Description
1		1	Suction spigot water halo - push fit Suction spigot, sprung type
2	SCA034342	4	Water nozzle, low pressure
3	SCA011091	4	Spring washer M6
4	SCA011001	4	Setscrew M6 x 16
5	SCA041030	1	Push in tee, equal ø10mm
6	SCA047778	4	Push in tee, ø10mm x ø10mm ø6mm, reducer on branch
7	SCA041031	6	Blue flexible nylon tubing, ø10mm
8	SCA035733	4	Blue flexible nylon tubing, ø6mm

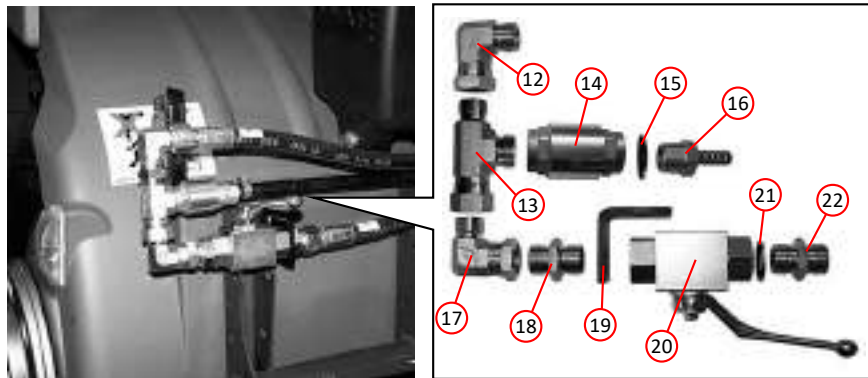
Item	Part Number	Quantity	Description
Combined High and Low Pressure Spray Bar - (Option)			
1	020405	1	Spray bar, stainless steel
2	011241	2	Plug $\frac{1}{4}$ " BSP
3	011152	2	Dowty seal $\frac{1}{4}$ " BSP
4	010112	11	Nozzle body
5	023377	11	Jet
6	030951	11	Nozzle cap
7	011188	1	Banjo elbow, $\frac{1}{2}$ " BSP (complete)
8	011154	2	Seal, Dowty, $\frac{1}{2}$ " BSP
9	001067	1	Hose, 4500mm long, straight ends, $\frac{1}{2}$ " BSP
10	014983	AR	U-Clamp
11	*	2	Bracket, spray bar
12	011173	2	Elbow, swivel, M/F, $\frac{1}{2}$ " BSP
13	011182	1	Tee, swivel, M/M/F, $\frac{1}{2}$ " BSP
14	003033	1	Valve, non-return, $\frac{1}{2}$ " BSP
15	011154	4	Seal, Dowty, $\frac{1}{2}$ " BSP
16	003034	1	Hose tail, $\frac{1}{2}$ " BSP x $\frac{3}{8}$ " hose
NI	010958	AR	Hose, plastic re-enforced, $\frac{3}{8}$ " bore (from water valve)
NI	010516	1	Clamp, hose, worm drive, 11-16mm
17	011173	2	Elbow, swivel, M/F, $\frac{1}{2}$ " BSP
18	011160	1	Adaptor, M/M, $\frac{1}{2}$ " BSP
19	025007	1	Bracket, angle, valve support
20	023176	1	Valve, ball, F/F, $\frac{1}{2}$ " BSP
21	011154	4	Seal, Dowty, $\frac{1}{2}$ " BSP
22	011160	1	Adaptor, M/M, $\frac{1}{2}$ " BSP
NI	001068	1	Hose, 4000mm long, straight ends, $\frac{1}{2}$ " BSP (from H-P pump)
23	023176	1	. Ball valve
24	025007	1	. . Bracket, valve support
25	011159	2	. . Adaptor, M/M, $\frac{3}{8}$ " BSP
26	011153	1	. . . Seal, Dowty, $\frac{3}{8}$ " BSP
27	011172	2	. . Elbow, swivel, M/F, $\frac{3}{8}$ " BSP
28	002110 †	1	. . Tee, M/F/M, $\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{3}{8}$ " BSP
29	011172 †	AR	. . Elbow, swivel, M/F, $\frac{3}{8}$ " BSP

Notes:-

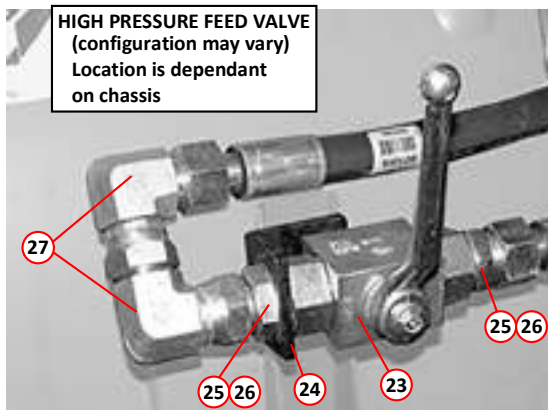
- * Mounting brackets for the spray bar are dependant on the vehicle being fitted to. Please contact your local Scarab Dealer or the Scarab Parts Department regarding these parts.
- † Required when the high-pressure hose reel has been fitted.



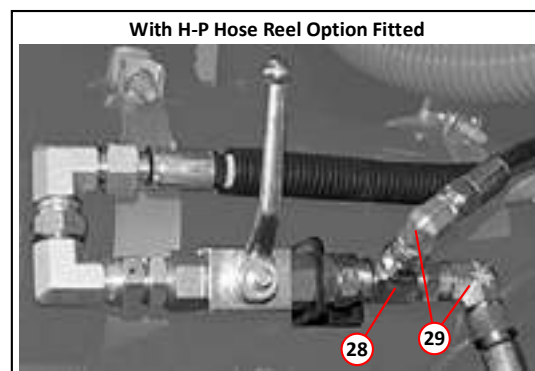
Combined High and Low Pressure Spray Bar Assembly



Combined High and Low Pressure Feed Valves



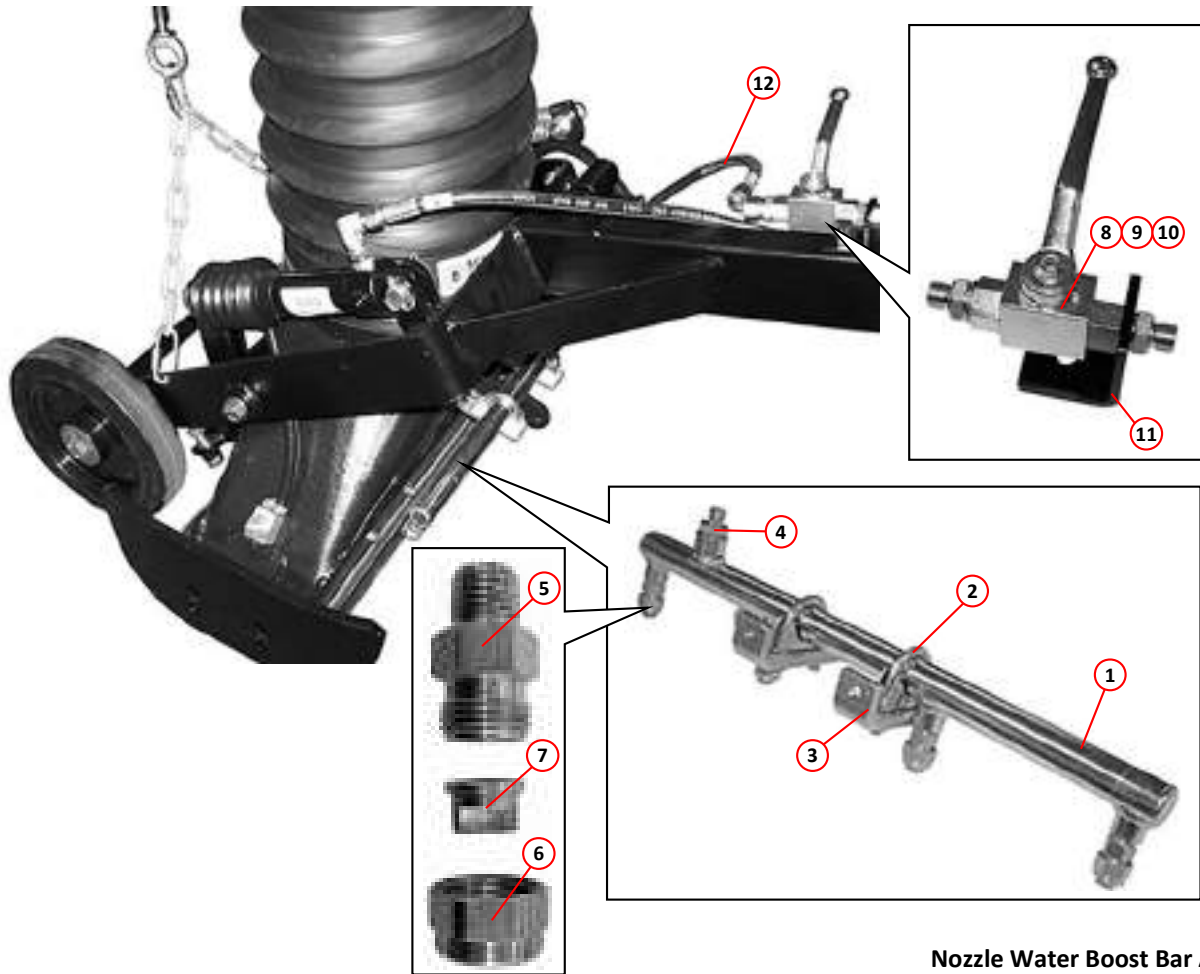
High Pressure Only Feed Valves



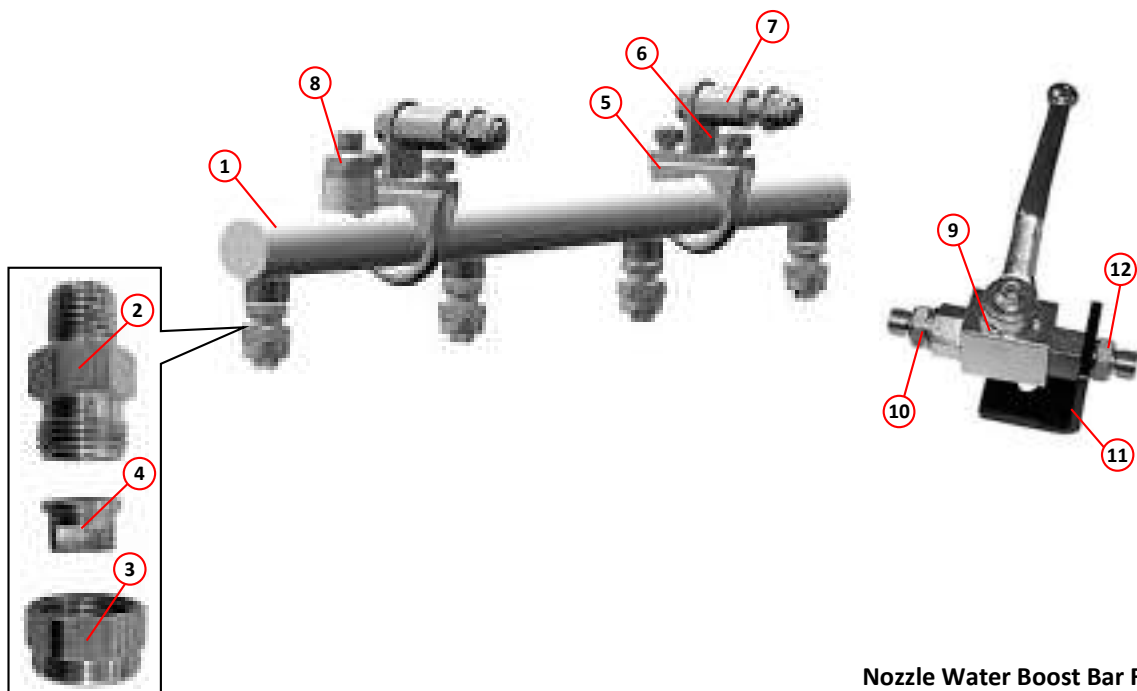
Item	Part Number	Quantity	Description
High and Low Pressure Nozzle Water Boost - (Option)			
1	020589	1	Spray bar - boost
1	028616	1	Spray bar - boost (high pressure)
2	020774	2	. Clamp
3	020590	1	. Bracket
	011051	2	. . Set screw, M10 x 25mm
	011075	2	. . Nut, M10, Nyloc
4	011199	1	. Adaptor, M/M, $\frac{3}{8}$ " x $\frac{1}{4}$ " BSP, (high pressure)
NI	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
NI	010923	1	. Hose tail, $\frac{3}{8}$ " BSP x $\frac{3}{8}$ " hose (low pressure)
NI	010950	AR	. . Hose, plastic reinforced, $\frac{3}{8}$ " bore (low pressure)
NI	010516	1	. . . Clamp, worm drive, 11-16 (low pressure)
5	010112	4	. Nozzle body
6	030951	11	. Nozzle cap
7	012316	AR	. Spray jet LF4-80
7	030251	AR	. Spray jet 4004
8	011257	1	. Ball valve, high pressure, $\frac{1}{4}$ " BSP
9	011158	2	. . Adaptor, M/M, $\frac{1}{4}$ " BSP
10	011152	1	. . . Seal, Dowty, $\frac{1}{4}$ " BSP
11	025007	1	. . Bracket, valve mounting
	011030	1	. . . Set screw, M10 x 20mm
12	001100	1	. Hose, rubber, $\frac{1}{4}$ " BSP x 460mm, straight/90° ends (H/P supply)

} High pressure

Item	Part Number	Quantity	Description
Nozzle Water Boost Bar Rear Mounted High Pressure - (Option)			
1	020589	1	Spray bar - boost
2	010112	4	. Nozzle body
3	030951	4	. Nozzle cap
4	012316	4	. Spray jet LF4-80
5	020744	2	. Clamp, 'U'
6	041466	2	. Bracket
	011036	2	. . Bolt, M10 x 60mm
7	012981	2	. . Spacer
	011094	4	. . Washer, M10
	011075	2	. . Nut, M10, Nyloc
8	011199	1	. Adaptor, M/M, $\frac{3}{8}$ " x $\frac{1}{4}$ " BSP, (high pressure)
	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
NI	001104	1	. Hose, rubber, $\frac{1}{4}$ " BSP x 900mm, straight/90° ends
9	011257	1	. Ball valve, high pressure, $\frac{1}{4}$ " BSP
10	011158	1	. . Adaptor, M/M, $\frac{1}{4}$ " BSP
	011152	1	. . . Seal, Dowty, $\frac{1}{4}$ " BSP
11	012548	1	. . Bracket, valve mounting
12	011269	1	. . Adaptor, bulkhead, M/M, $\frac{1}{4}$ " BSP
	011030	1	. . . Set screw, M10 x 20mm
	011095	1	. . . Washer, spring, M10



Nozzle Water Boost Bar Assembly



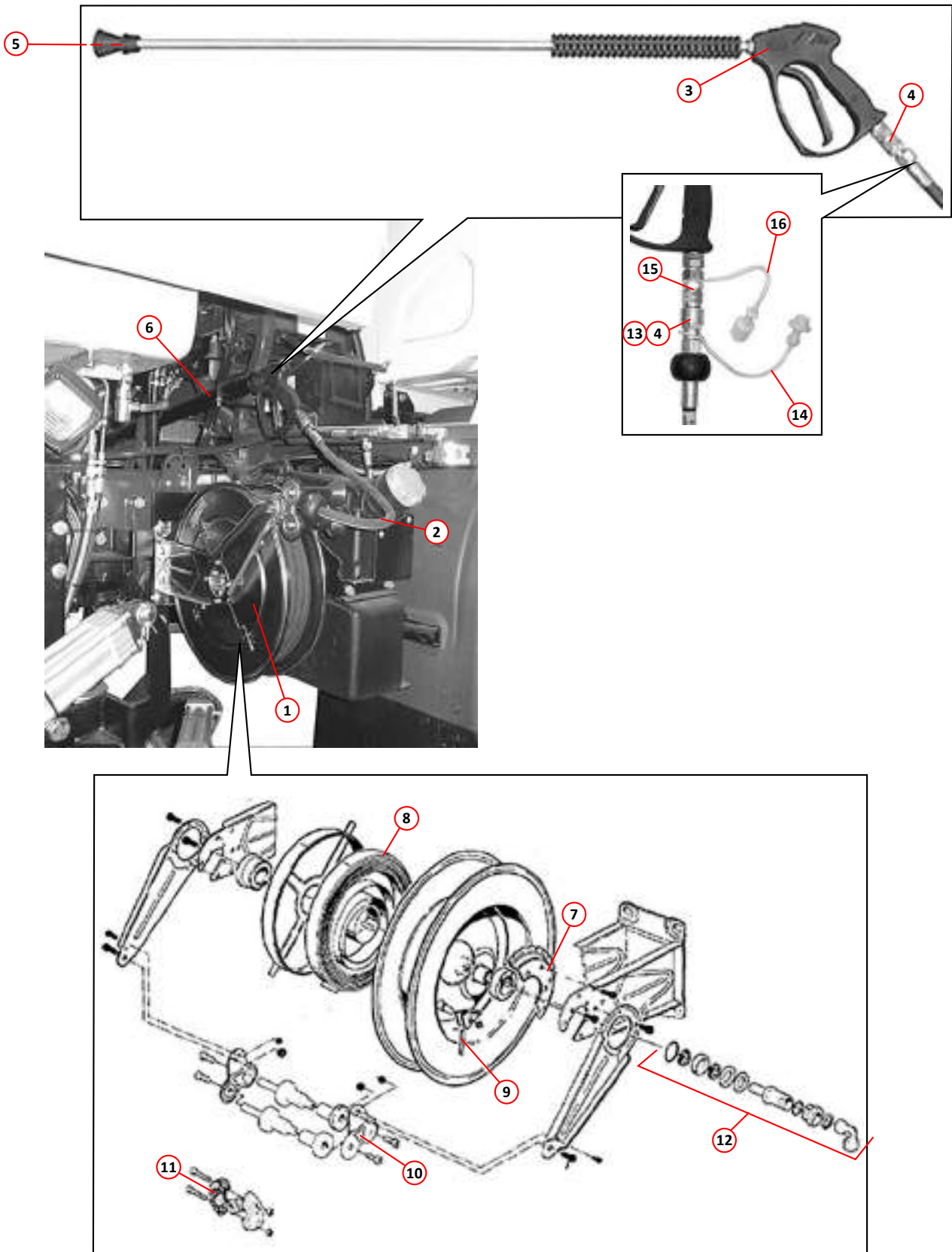
Nozzle Water Boost Bar Rear Mounted

Item	Part Number	Quantity	Description
Hose Reel and Lance *- (Option)			
1	020451	1	Automatic hose-reel complete (less hose)
NI	026996	1	Automatic hose-reel (for use with 250 bar Pratissoli pump)
2	010601 †	1	. Hose, rubber, $\frac{3}{8}$ " BSP x 13 metres, straight ends
3	010748	1	. Hand-lance
NI	030120	1	. Hand-lance (for use with 250 bar Pratissoli pump)
4	011159	1	. . Adaptor, M/M, $\frac{3}{8}$ " BSP
NI	002204	1	. . Adaptor, M/M, $\frac{1}{2}$ " BSP x $\frac{3}{8}$ " NPT (connection between hose and hose reel)
5	030252	1	. . Jet
6	025473	1	. . Lance stowage
NI	005055	2	. . . Clip 50mm I/D
7	030570	1	. Ratchet
8	026753	1	. . Rewind torsion spring
9	026754	1	. . Tension spring, ratchet pawl
10	025238	1	. Roller assembly, hose feed
11	026217	1	. Clamp (hose feed stop)
12	024230	1	. Swivel elbow assembly (water supply)
NI	024463	1	. . Swivel joint
13	023360	1	. . Coupling, quick release, female
14	014999	1	. . . Coupling plug
15	023359	1	. . Coupling, quick release, male
16	114998	1	. . . Coupling cap

Used when lance
stowage not fitted

Notes:-

- * Position of hose reel and lance are determined by chassis make and model.
- † When Ordering a replacement hose for H-P systems using the Pratissoli pump, please contact the Scarab Parts Department, stating your model and serial number.



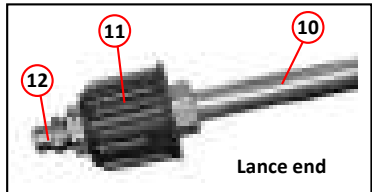
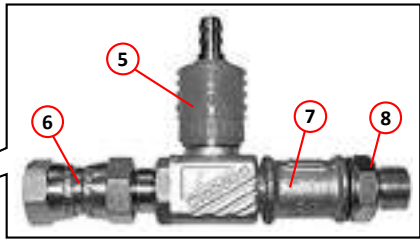
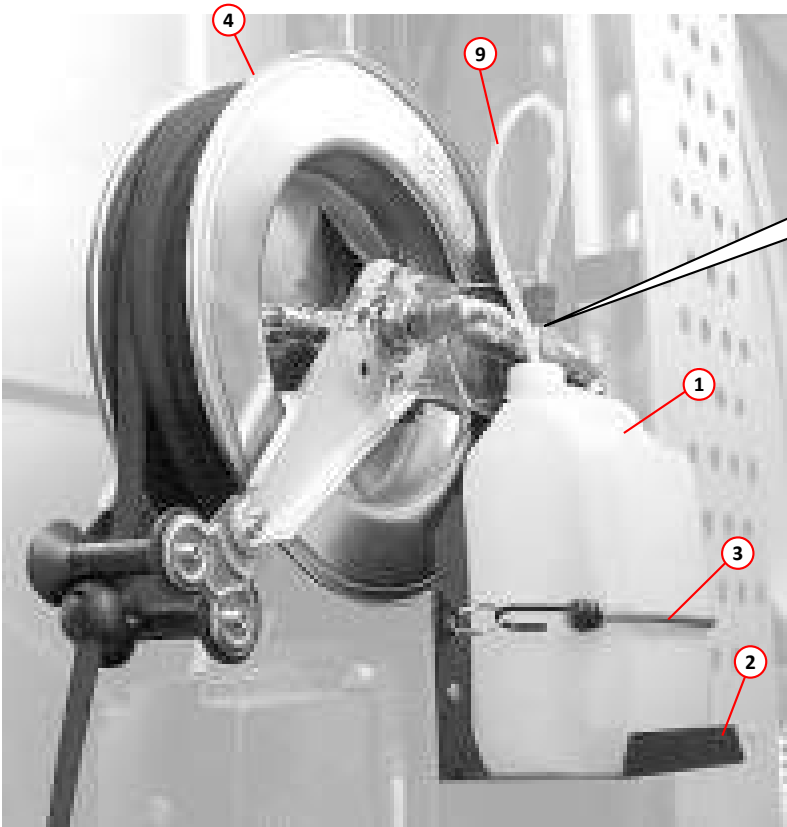
Automatic Hose Reel

Item	Part Number	Quantity	Description
Hand Lance Detergent Kit - (Option)			
1	013553	1	. Bottle
9	010393	1	. . Bracket, bottle mounting
3	013602	1	. . Bungee cord, hook ends
4		1	Hose reel Page 432
5	013573	1	. Detergent Injector
6	011214	1	. . Adaptor, F/F, $\frac{3}{8}$ " BSP
7	010940	1	. . Adaptor, galvanised, F/F, $\frac{3}{8}$ " BSP
8	011159	1	. . . Adaptor, M/M, $\frac{3}{8}$ " BSP
9	013575	AR	. Tubing, silicon rubber
10		1	Hand lance Page 432
11	013574	1	. Detergent nozzle
12	030252	1	. . Jet, detergent nozzle

Item	Part Number	Quantity	Description
Hand Wash Basin - (Option)			
1	028228	1	Teal hand basin - Electric 24 Volt
NI	*	2	. Support Leg
	011011	2	. . Set screw, M8 x 25mm
	011073	2	. . Nut, M8, Nyloc
2	033274	1	. Frame
	000003	2	. . Screw, socket countersunk, M8 x 20mm
	011071	4	. . Nut, M6, Nyloc
NI	032532	2	. Wiring loom

Notes:-

- * Teal hand basin support legs vary according to chassis manufacture, when ordering please contact your nearest Scarab Distributor or Scarab Parts Department.



Hand Lance Detergent Kit - Option

Shown in the open position

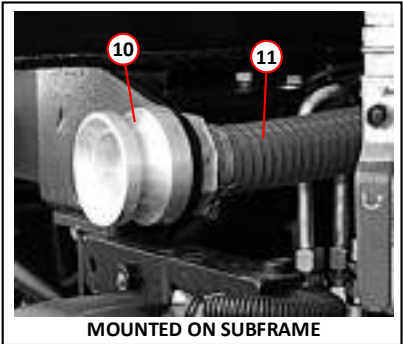
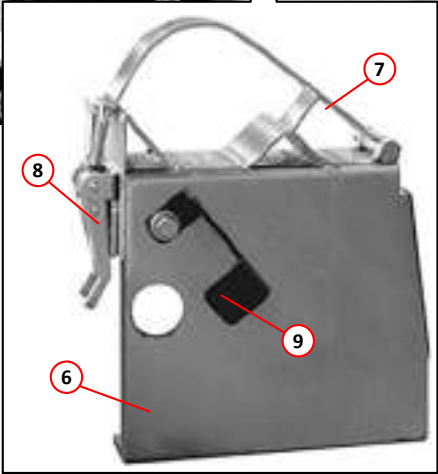
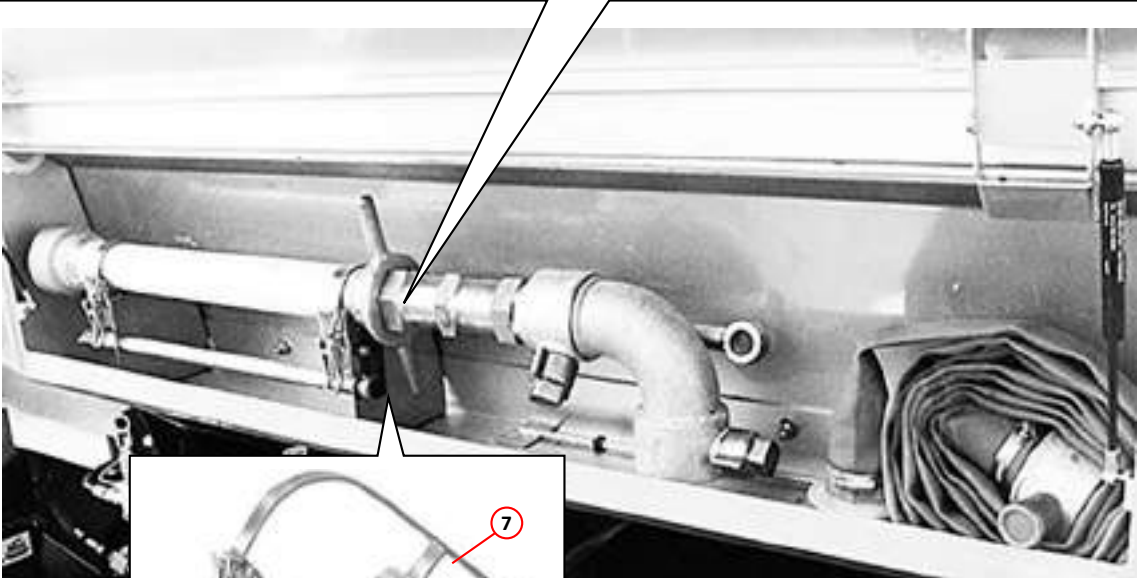
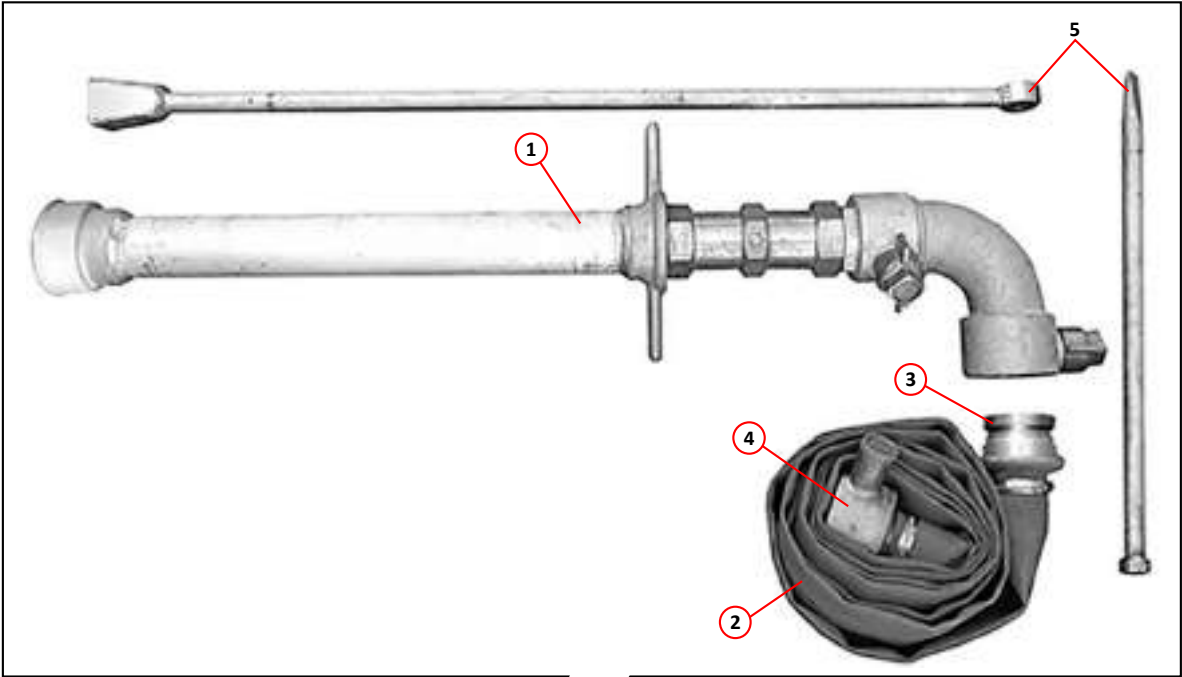


Teal Wash Basin

Item	Part Number	Quantity	Description
Locker Mounted Water Hydrant Kit * - (Option)			
1	014544	1	Standpipe
2	014547	1	. Hose, lay flat, 4 m long
3	014546	1	. Hydrant instantaneous coupling, 2½" male x 2" hose tail
4	013171	1	. Hydrant coupling, 2½" female x 2" hose tail
NI	012927	2	. . Hose clamp, worm drive, 40-55mm
5	014545	1	. Hydrant key and bar
6	020484	2	. Bracket, standpipe mounting
7	020483	2	. . Strap, standpipe mounting
8	010509	2	. . Fastener with hinged toggle
	000021	2	. . . Set screw, M6 x 40mm
	011002	4	. . . Screw, countersunk slot head, M6 x 16mm
	011071	6	. . . Nut, M6, Nyloc
	011010	4	. . . Set screw, M8 x 20mm
	011073	4	. . . Nut, M8, Nyloc
9	031504	1	. . . Hydrant bar stop (auxiliary tool locker only)
	011010	1	 Set screw, M8 x 20mm
	011073	1	 Nut, M8, Nyloc
10	025140	1	. Adaptor, male (with back nut)
11	001045	AR	. . Hose, green, medium duty 1½" bore
	003007	2	. . . Hose clamp, worm drive, 35-50mm

Notes:-

* Hydrant kits are located in the hopper locker (**Merlin/XP**) or, the auxiliary tool locker (**Magnum**).



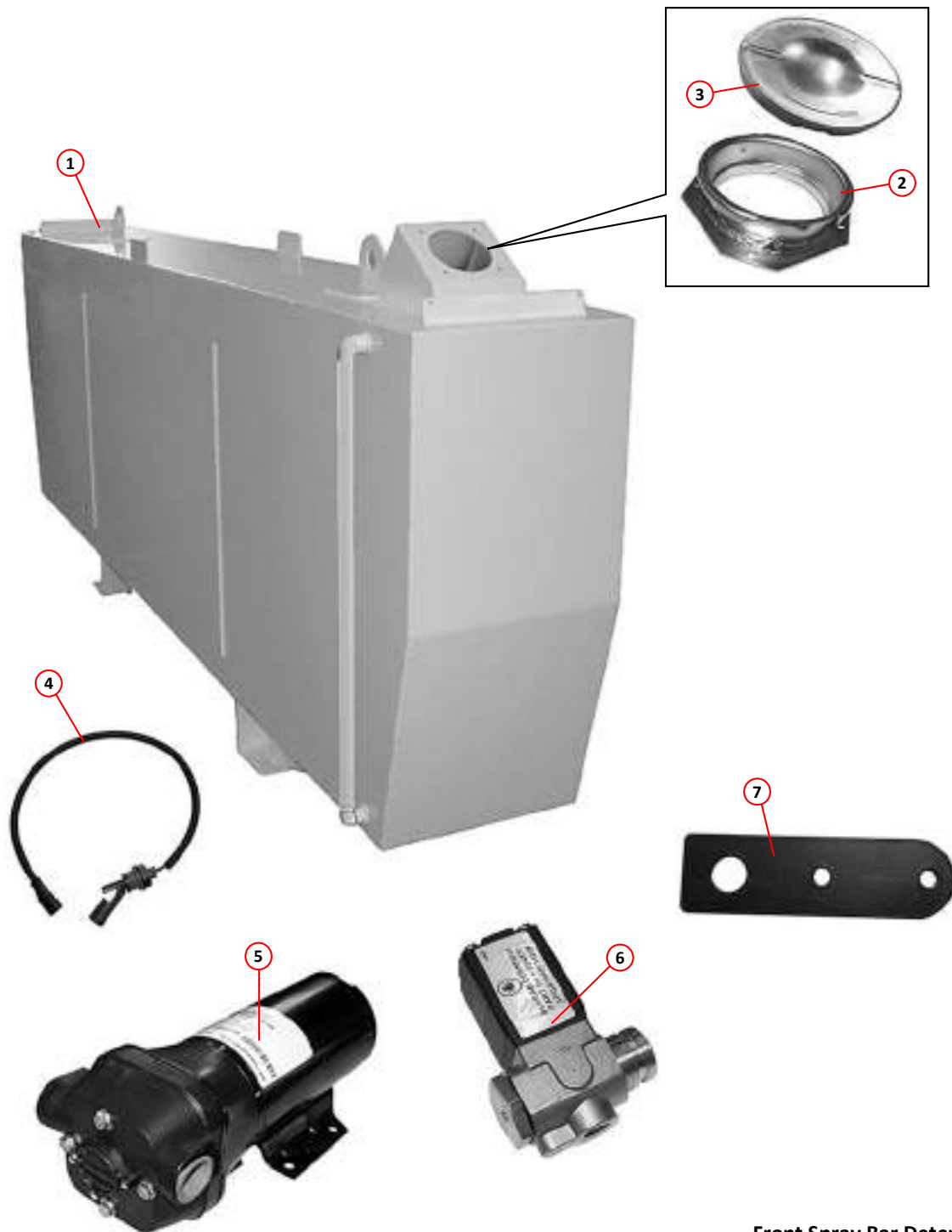
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Locker Mounted Hydrant Kit

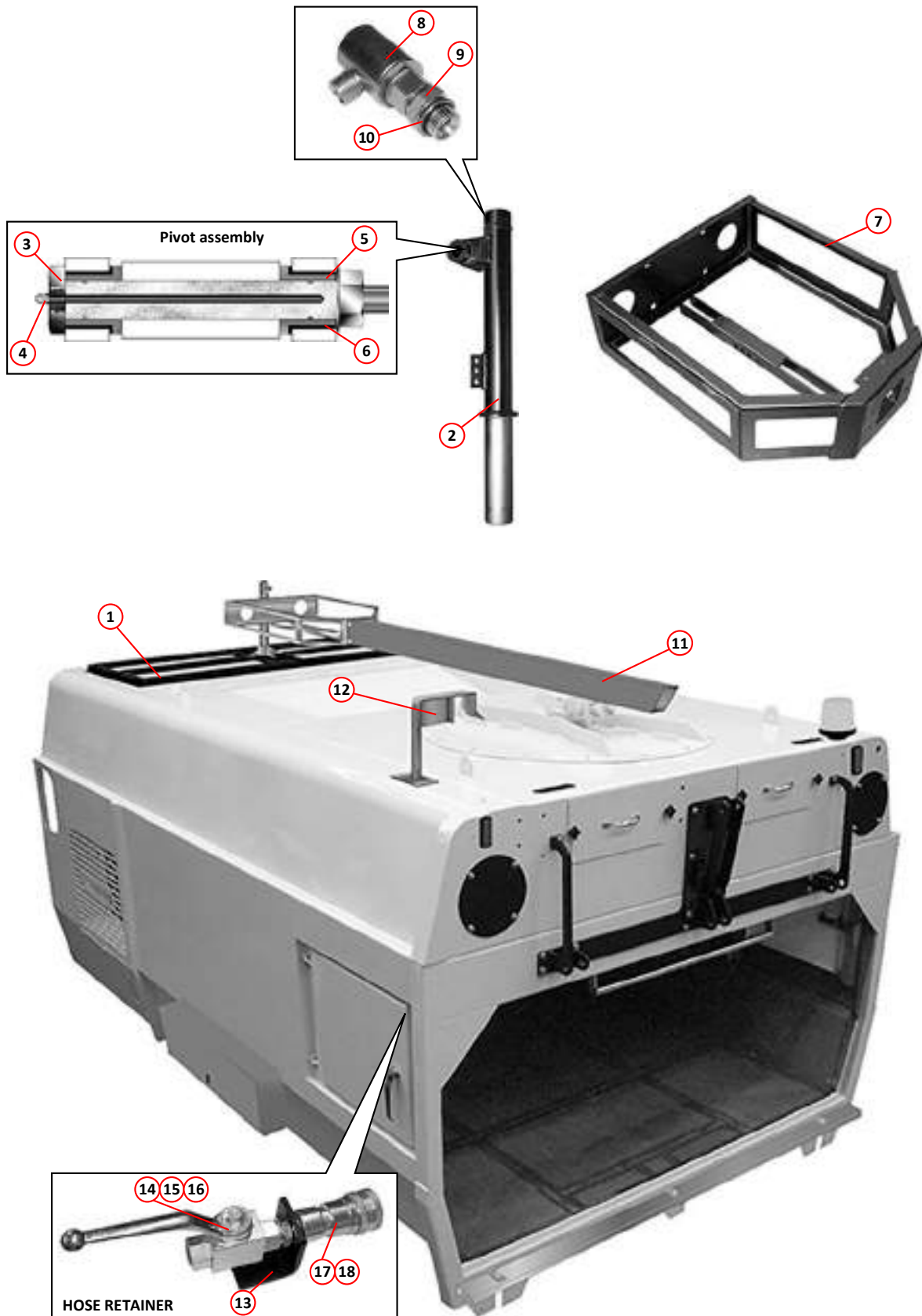
Item	Part Number	Quantity	Description
Front Spray Bar Detergent Tank Kit - (Option)			
1	*	1	Detergent tank
NI	*	1	. Base, detergent tank
2	014040	1	. Filler assembly
	000252	4	. . Set screw, M6 x 20mm, stainless steel
	000254	4	. . Washer, M6, stainless steel
	000253	4	. . Nut, M6, Nyloc, stainless steel
3	013661	1	. . Filler cap
4	036871	1	. Float switch Page 556
5	032718	1	. Detergent pump
6	024832	1	. Water valve
7	024835	1	. . Bracket, mounting, water valve
NI	030323	1	Spray bar Page 420

Notes:-

- * The detergent tank and its base unit are chassis/model specific items. If a replacement tank is required, please contact the Scarab Parts Department stating your model and serial number.

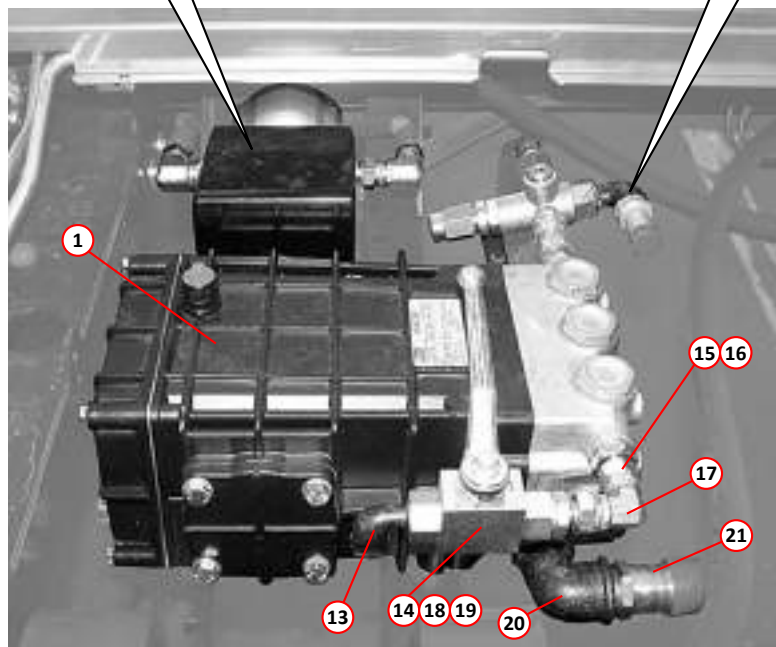
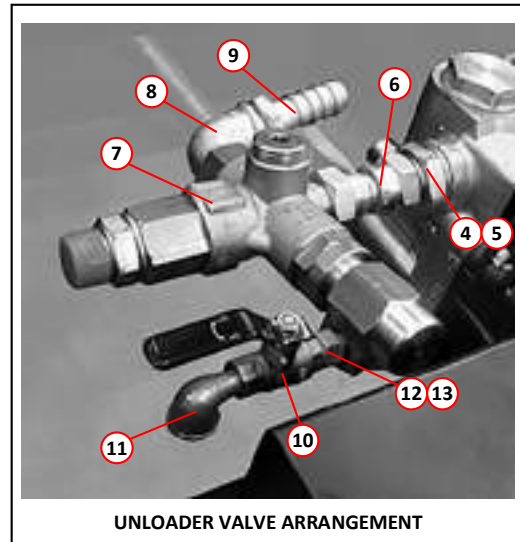
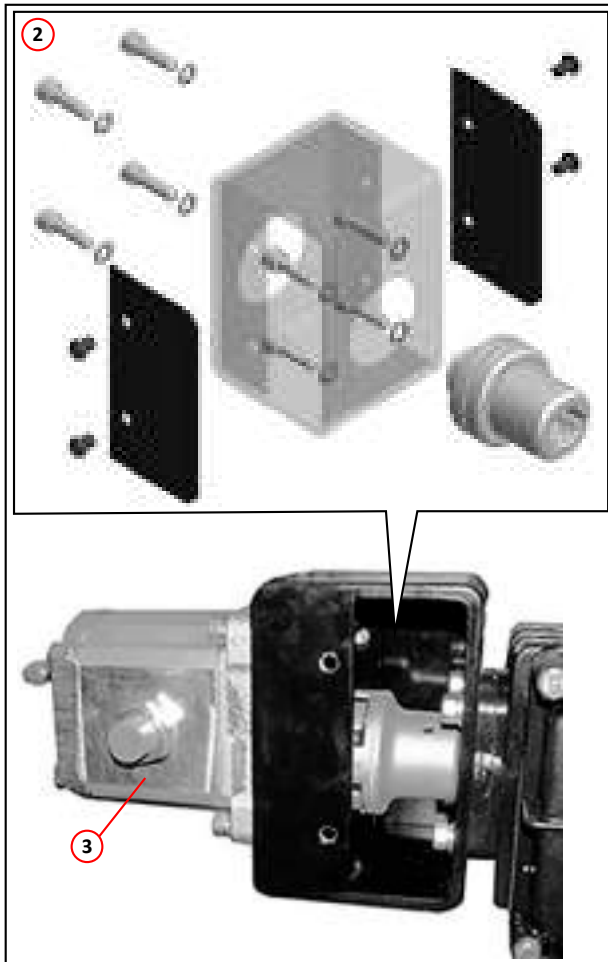
**Front Spray Bar Detergent Tank Kit**

Item	Part Number	Quantity	Description
Water Boom Assembly - Merlin and Magnum - (Option)			
1	028613	1	Support bracket (Merlin)
	011031	13	. Set screw, M10 x 25mm
	011074	13	. Washer, M10
	011075	13	. Nut, M10, Nyloc
NI	030522	1	Support bracket (Magnum)
	011031	8	. Set screw, M10 x 25mm
	011074	8	. Washer, M10
	011075	8	. Nut, M10, Nyloc
2	027945	1	Universal joint
3	014796	1	. Pivot bolt
4	010903	1	. Grease point $\frac{1}{8}$ " BSP
	011060	1	. Nut, M16, Nyloc
	011135	1	. Washer, M16
5	014799	2	. Spacer sleeve
6	013012	2	. Bush, king pin
7	027952	1	Hose-reel carrier
	000205	4	. Set screw, M14 x 25mm
	011127	4	. Nut, M14, Nyloc
NI	013486	2	. Gas strut
8	010422	2	. Rotating joint, M/F, $\frac{1}{2}$ " BSP
9	011160	2	. . Adaptor, M/M, $\frac{1}{2}$ " BSP
10	011154	2	. . Seal, Dowty, $\frac{1}{2}$ " BSP
11	027949	1	Hose support bar (Merlin)
NI	030523	1	Hose support bar (Magnum)
	011051	4	. Set screw, M12 x 25mm
	011077	4	. Nut, M12, Nyloc
NI	014799	3	. Spacer, $\varnothing 20 \times 41 \times 10.5$ bore
	011055	3	. Bolt, M12 x 65mm
12	028614	1	Stowage hook
	011031	2	. Set screw, M10 x 25mm
	011074	2	. Washer, M10
13	028155	1	Bracket, hose retainer
14	011257	1	. Ball valve $\frac{1}{4}$ " BSP
15	011199	1	. Adaptor, M/M, $\frac{3}{8}$ " x $\frac{1}{4}$ " BSP
16	011152	1	. . Seal, Dowty, $\frac{1}{4}$ " BSP
17	023360	1	. Quick-release coupling, female $\frac{3}{8}$ " BSP
18	011153	2	. . Seal, Dowty, $\frac{3}{8}$ " BSP
NI	035627	2	Side spacer bracket, hose-reel carrier. (1250 water tank)
NI	035628	1	Front spacer bracket, hose-reel carrier. (1250 water tank)
NI	023538	1	Hose reel assembly Page 432
NI	010970	1	. Hose, rubber, $\frac{1}{2}$ " BSP x 460mm, straight ends

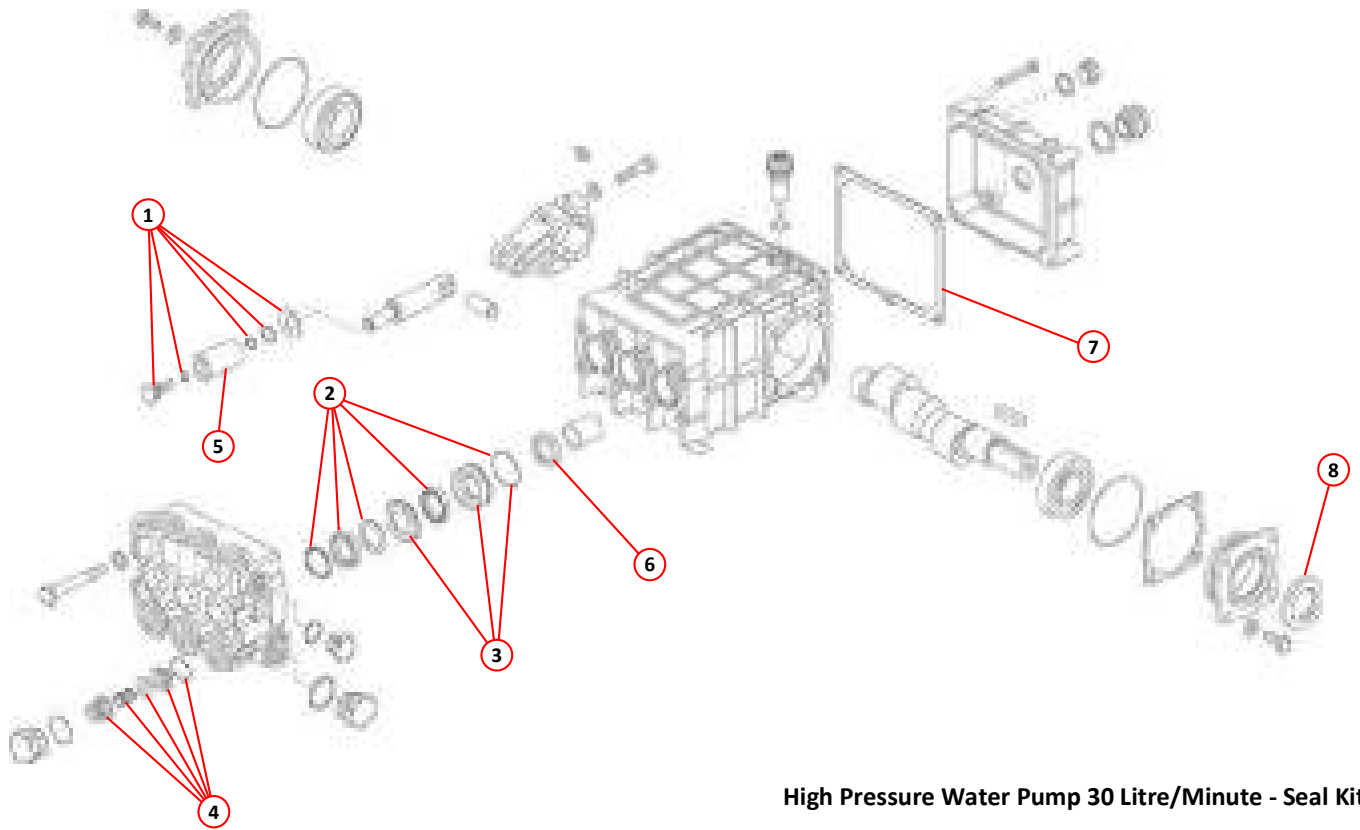


Water Boom Assembly - Merlin and Magnum

Item	Part Number	Quantity	Description
High Pressure Water Pump - 30 litres/minute - Arrangement - (Option)			
1	039940	1	Pump, High-Pressure, 30 litres/minute - 160 bar
	011031	4	. Set screw, M10 x 25mm
	011095	4	. Spring washer, M10
2	036654	1	. Drive box kit (with cover plates)
	000017	4	. . Screw, socket cap head, M8 x 30mm
	011093	4	. . Spring washer, M8
3	025373	1	. Motor, hydraulic, 19cc, (Reversible) Page 508
	000017	4	. . Screw, socket cap head, M8 x 30mm
	011093	4	. . Spring washer, M8
4	011159	1	. . Adaptor, M/M, $\frac{3}{8}$ " BSP
5	011153	1	. . . Seal, Dowty, $\frac{3}{8}$ " BSP
6	011214	1	. . Adaptor, F/F, $\frac{3}{8}$ " BSP
7	010599	1	Valve unloader (160 bar pump only)
8	010913	1	. Elbow, galvanised, M/F, $\frac{3}{8}$ " BSP
9	010930	1	. , Hose tail, $\frac{3}{8}$ " BSP x $\frac{5}{8}$ " hose
10	011743	1	. Valve, ball $\frac{1}{4}$ " BSP, pump low pressure drain
11	010910	2	. . Elbow, galvanised, M/F, $\frac{1}{4}$ " BSP
12	003006	1	. Adaptor, galvanised, M/F, $\frac{3}{4}$ " x $\frac{1}{4}$ " BSP
13	010944	1	. Adaptor, galvanised, M/M, $\frac{1}{4}$ " BSP
14	011257	1	. Ball valve, $\frac{1}{4}$ " BSP, pump high pressure drain
15	011199	1	. . Adaptor, M/M, $\frac{3}{8}$ " x $\frac{1}{4}$ " BSP
16	011153	1	. . . Seal, Dowty, $\frac{3}{8}$ " BSP
17	011171	1	. . Elbow, swivel, F/F, $\frac{1}{4}$ " BSP
18	011152	1	. . Seal, Dowty, $\frac{1}{4}$ " BSP
19	011158	1	. . Adaptor, M/M, $\frac{1}{4}$ " BSP
20	010917	1	. Elbow, galvanised, M/F, $\frac{3}{4}$ " BSP
21	010931	1	. . Hose tail, $\frac{3}{4}$ " BSP x 1" hose



<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
			High Pressure Water Pump - 30 litres/minute - Kit Parts- (Option)
1	045356	1	. Piston Bolt Repair (Kit 6), PUCP 606106
2	045357	1	. Water Seal (Kit 11), PUWS 606111
3	045358	1	. Brass Insert (Kit 18), PUPB
4	045359	1	. Valve (Kit 3), PUVA 606103
5	045360	1	. Ceramic Piston, PUCP 120533
6	045361	1	. Piston Oil Seal, PUOS 000743
7	045362	1	. Crankcase Cover Gasket, PUGA 060275
8	045363	1	. Shaft Oil Seal, PUOS 000738

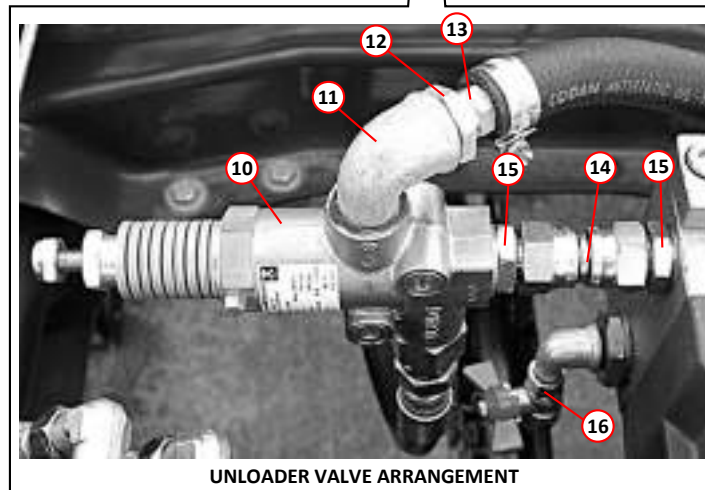
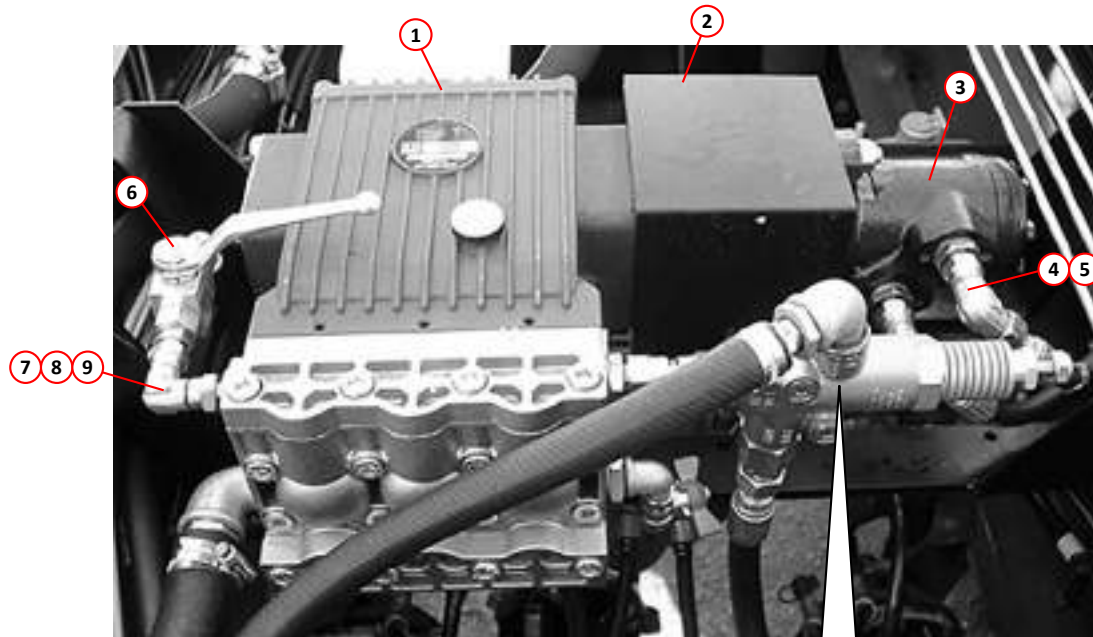


High Pressure Water Pump 30 Litre/Minute - Seal Kits

Item	Part Number	Quantity	Description
			High Pressure Water Pump - 42 litres/minute - Arrangement - (Option)
1	020308 *	1	Pump, high-pressure, 42 litres/minute
NI	020311	1	. Coupling half, 1 bore
NI	020309	1	. Coupling half, 35 bore
NI	020312	1	. Sleeve, coupling
2	020643	1	. . Guard, coupling
3	013527	1	Motor, hydraulic Page 508
4	011167	2	. Adaptor, $\frac{1}{2}$ " BSP x $\frac{3}{8}$ " BSP
NI	011154	1	. . Seal, Dowty, $\frac{1}{2}$ "
5	011172	2	. Elbow, swivel, M/F, $\frac{3}{8}$ " BSP
NI	020347	1	. Mounting bracket, motor
6	011257	1	Ball valve $\frac{1}{4}$ " BSP, pump high pressure drain
NI	010910	1	. Elbow, $\frac{1}{4}$ " BSP
7	011158	1	. Adaptor, $\frac{1}{4}$ " BSP x $\frac{1}{4}$ " BSP
NI	011152	1	. . Seal, Dowty, $\frac{1}{4}$ " BSP
8	011169	1	. Elbow, swivel, F/F, $\frac{1}{4}$ " BSP
9	011199	1	. . Adaptor, $\frac{3}{8}$ " BSP x $\frac{1}{4}$ " BSP
NI	011153	1	. . . Seal, Dowty, $\frac{3}{8}$ "
10	022739	1	Valve, unloader, ($\frac{1}{2}$ " BSP ports)
11	010942	1	. Elbow, M/F, $\frac{1}{2}$ " BSP
12	010914	1	. . Bush, reducing, $\frac{1}{2}$ " BSP x $\frac{3}{8}$ " BSP
13	010930	1	. . Hose tail $\frac{3}{8}$ " BSP x $\frac{5}{8}$ " BSP
14	011178	1	. Adaptor, F/F, $\frac{1}{2}$ " BSP 16/8/8
15	011160	2	. . Adaptor, $\frac{1}{2}$ " x $\frac{1}{2}$ "
NI	011154	1	. . . Seal, Dowty, $\frac{1}{2}$ " BSP
16	011743	1	Valve, ball $\frac{1}{4}$ " BSP, pump low pressure drain

Notes:-

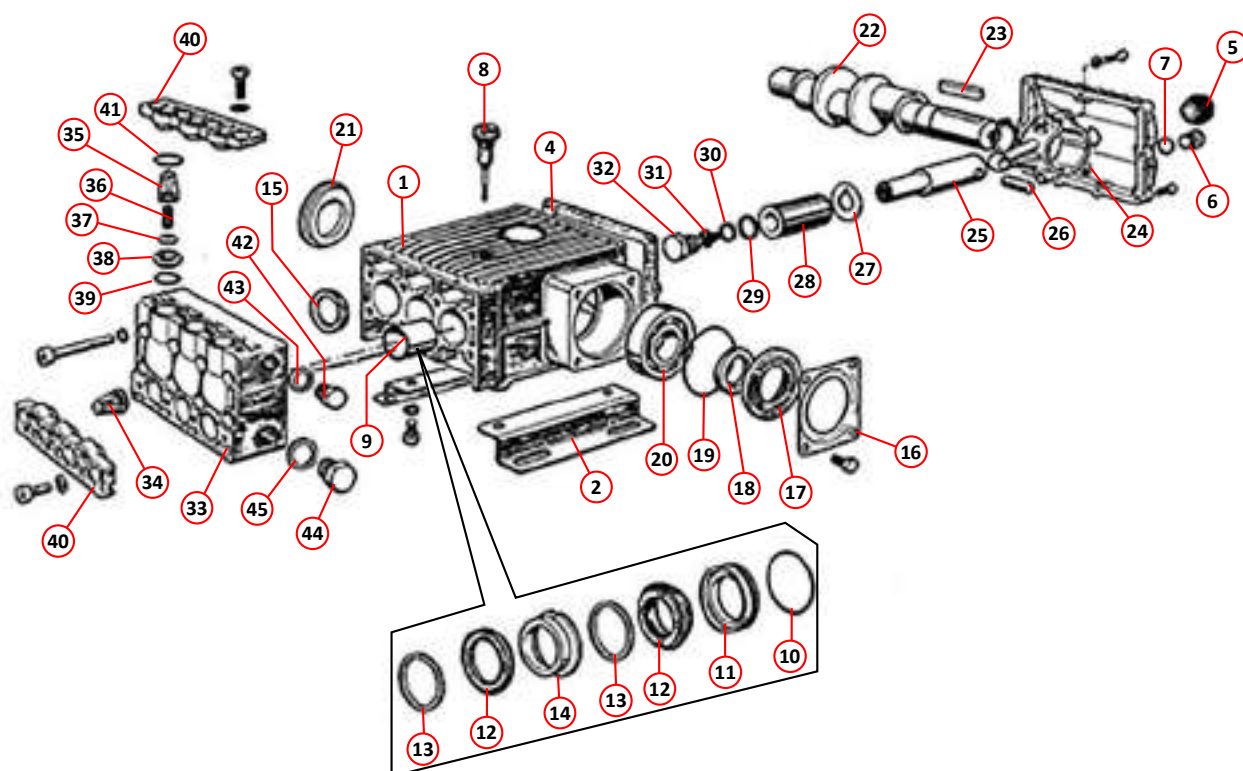
* For pump components see Page 448.



UNLOADER VALVE ARRANGEMENT

High Pressure Water Pump 42 Litres/Minute - Arrangement

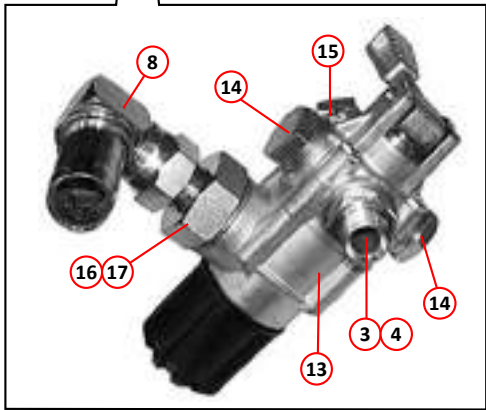
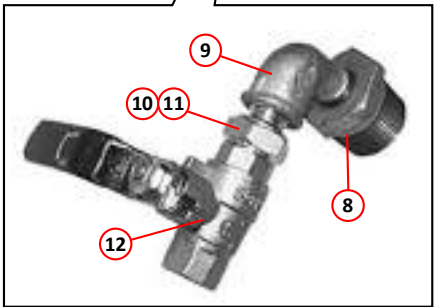
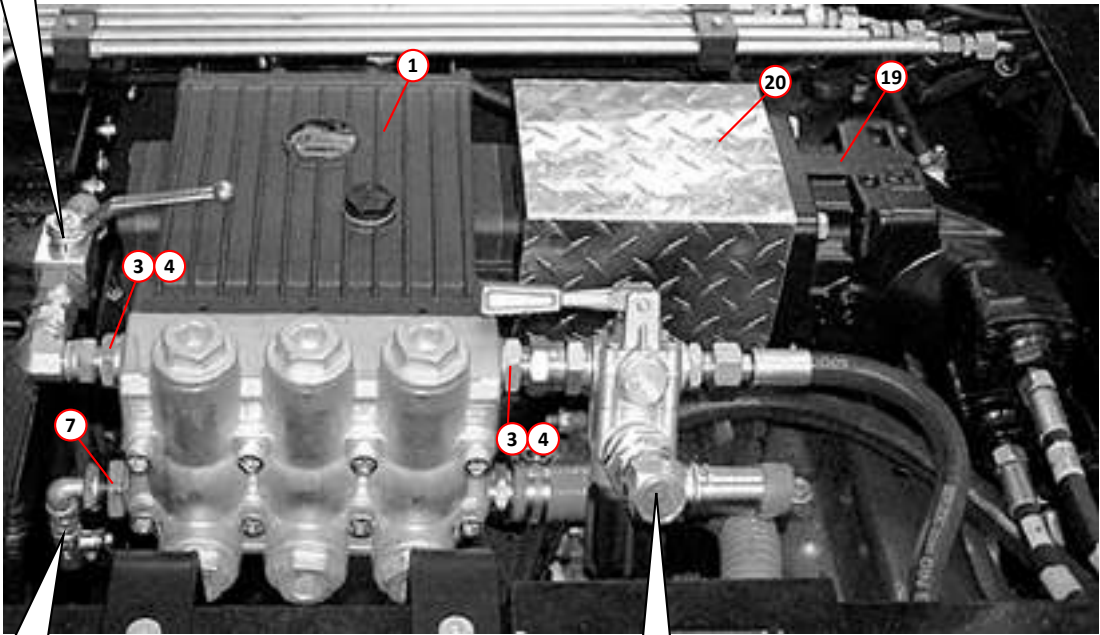
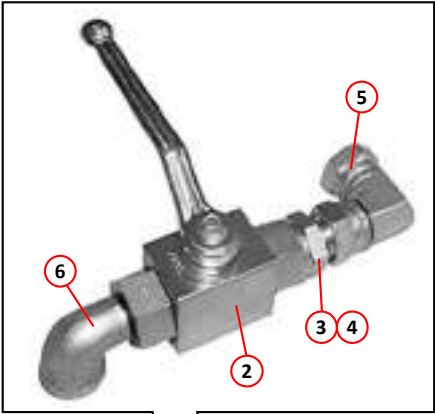
Item	Part Number	Quantity	Description
High Pressure Water Pump - 42 litres/minute - Components - (Option)			
1	022110	1	CRANKCASE
2	022136	2	. Foot
	022139	4	. . Bolt
	022138	4	. . Washer
3	022119	1	. Rear cover
	022126	9	. . Bolt
4	022112	1	. . Gasket, rear cover
5	022124	1	. . Oil sight glass
6	022125	1	. . Plug $\frac{3}{8}$ " BSPM x 13mm
7	022123	1	. . . O-Ring
8	022111	1	. Dipstick
9	022137	3	. Cylinder guide
10	022144	3	. O-Ring
11	022145	3	. Oil seal
12	022146	6	. Oil seal
13	022147	6	. Oil seal
14	022148	3	. Collar
15	022109	3	. Oil seal
16	022131	2	. Crankcase cover, bearing assembly
	022130	8	. . Bolt
17	022132	1	. Spacer
18	022133	1	. Seal
19	022134	2	. O-Ring
20	022135	2	. Bearing
21	022151	1	. Spacer
22	022118	1	CRANKSHAFT
23	022149	1	. Key
	022150	1	. Circlip
24	022120	3	. Connecting rod
25	022128	3	. . Piston guide
26	022127	3	. . . Pin
27	022129	3	. . . Washer
28	022117	3	. . . Piston
29	022116	3	. . . Washer
30	022115	3	. . . Washer
31	022114	3	. . . O-Ring
32	022113	3	 Piston bolt
33	022143	1	HEAD
	022098	8	. Bolt, M10 x 80mm
	022099	8	. Washer
34	022105	6	. Valve, complete
35	022104	6	. . Valve
36	022103	6	. . Spring
37	022102	6	. . Valve ring
38	022101	6	. . Valve seat
39	022100	6	. . O-Ring
40	022107	2	. Cover
	022108	4	. . Bolt
	022099	4	. . Washer
41	022106	6	. . O-Ring
42	022125	2	. Plug $\frac{3}{8}$ " BSPM x 13mm
43	022142	1	. . Washer
44	022140	1	. Plug
45	022141	1	. . Washer



High Pressure Water Pump, 42 Litres/Minute - Components

Item	Part Number	Quantity	Description
High Pressure Water Pump - 42 litres/minute - Kit Parts			
NI	022152	1	Kit No 32, Comprising 2 x Item 18
NI	022153	1	Kit No 37, Comprising 3 x Item 15
NI	022154	1	Kit No 38, Comprising 3 x Item 12
NI	022155	1	Kit No 39, Comprising Items 10, 11, 12, 13 & 14
NI	022156	1	Kit No 40, Comprising 3 x Items 10 & 11
NI	022157	1	Kit No 41, Comprising 6 x Item 13
NI	022158	1	Kit No 42, Comprising 6 x Item 14
NI	022159	1	Kit No 62, Comprising 6 x Items 35, 36, 37, 38 & 39
NI	022160	1	Kit No 74, Comprising 3 x Items 29, 30, 31 & 32

Item	Part Number	Quantity	Description
High Pressure Water Pump - 75 litres/minute - Arrangement - (Option)			
1	027862	1	Pump, high pressure, 75 litres/minute
2	023176	1	. Ball valve, drain, high pressure, $\frac{1}{2}$ " BSP
3	011160	1	. . Adaptor, M/M, $\frac{1}{2}$ " BSP
4	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
5	011173	1	. . Elbow, swivel, F/F, $\frac{1}{2}$ " BSP
6	010942	1	. . Elbow, galvanised, M/F, $\frac{1}{2}$ " BSP
7	000154	1	. Adaptor, galvanised, M/F, $1\frac{1}{4}$ " x $\frac{3}{4}$ " BSP
8	003006	1	. Adaptor, galvanised, M/F, $\frac{3}{4}$ " x $\frac{1}{4}$ " BSP
9	010910	1	. Elbow, galvanised, M/F, $\frac{1}{4}$ " BSP
10	011158	1	. Adaptor, M/M, $\frac{1}{4}$ " BSP
11	011152	1	. . Seal, Dowty, $\frac{1}{4}$ " BSP
12	017743	1	. Ball valve, $\frac{1}{4}$ " BSP
13	020307	1	. Valve, unloader
14	011243	2	. . Plug, $\frac{1}{2}$ " BSP
15	022277	1	. . Adaptor, M/F, $\frac{1}{2}$ " BSP
16	011193	1	. . Adaptor, M/M, $1\frac{1}{4}$ " x $\frac{3}{4}$ " BSP
17	011156	1	. . . Seal, Dowty, 1" BSP
18	011210	1	. . Hose tail, swivel elbow, $\frac{3}{4}$ " BSP x 1" hose
NI	003029	1	. Hose tail, 1" BSP x $1\frac{1}{4}$ " hose
19	027866	1	. Motor, hydraulic, pump drive Page 508
NI	021465	1	. . Bracket, motor mounting
	011034	4	. . Set screw, M10 x 40mm
	011095	4	. . Spring washer, M10
	011054	4	. . Set screw, M12 x 45mm
	011077	4	. . Nut, M12
NI	027863	1	. Coupling, pump drive
20	027931	1	. Cover, drive coupling
	011001	4	. . Set screw, M6 x 16mm
	011091	4	. . Spring washer, M6
	011090	4	. . Washer, M6

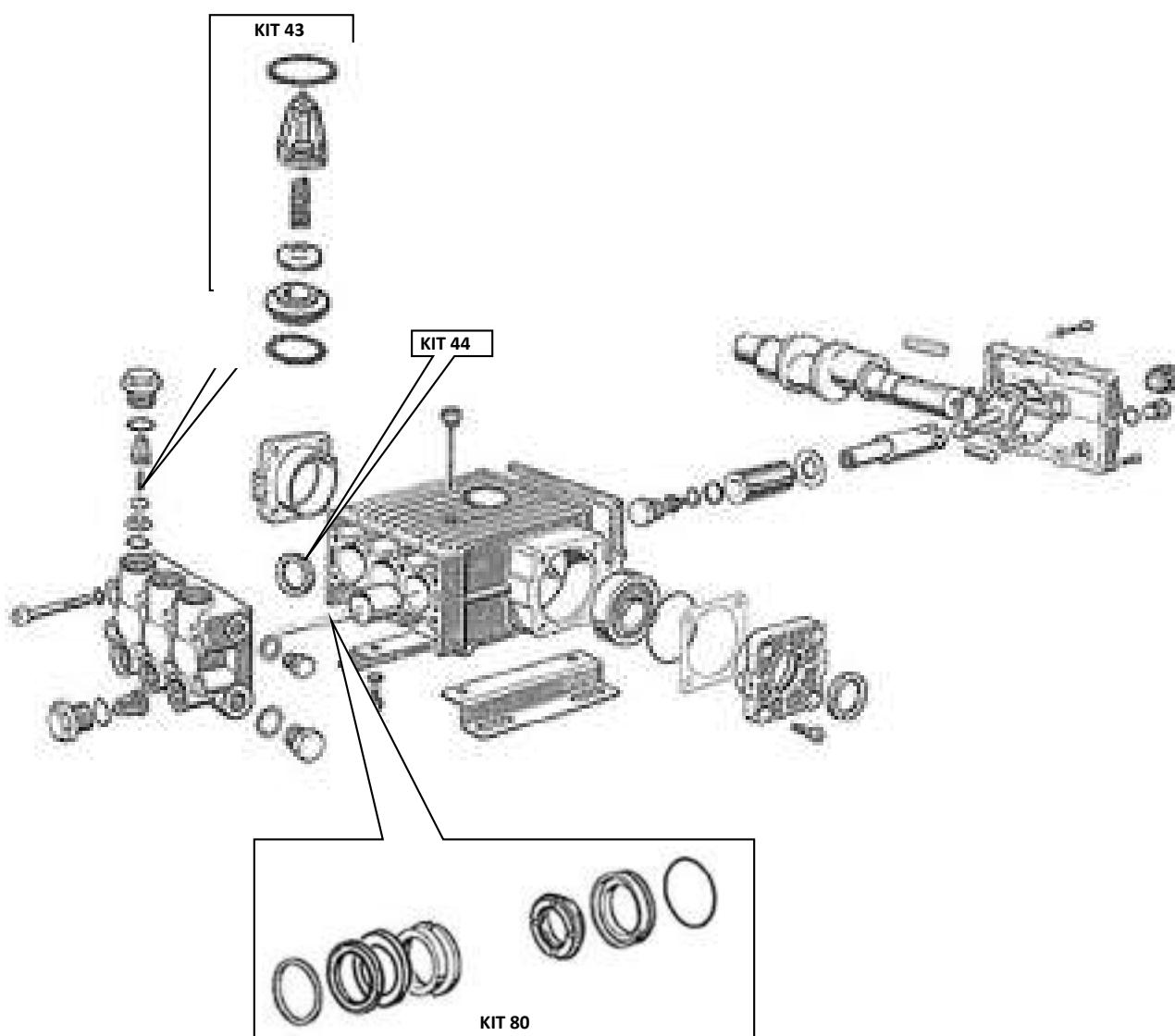


High Pressure Water Pump 75 Litres/Minute - Arrangement

<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
*			High Pressure Water Pump - 75 litres/minute - Components - (Option)

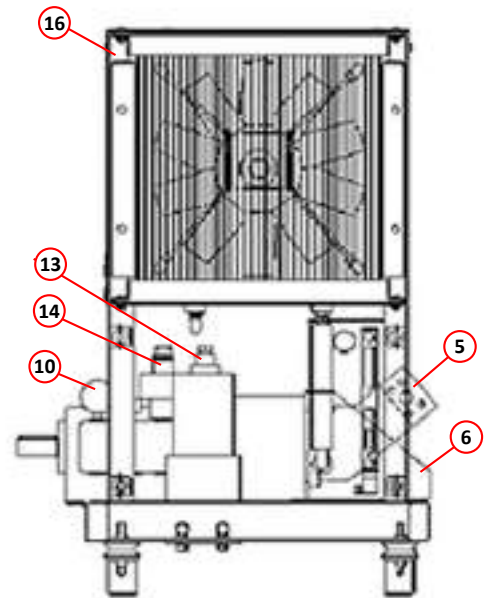
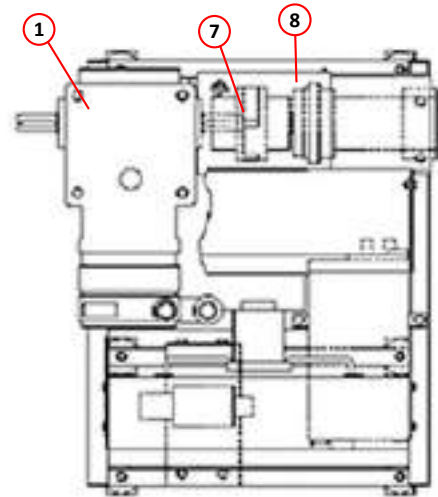
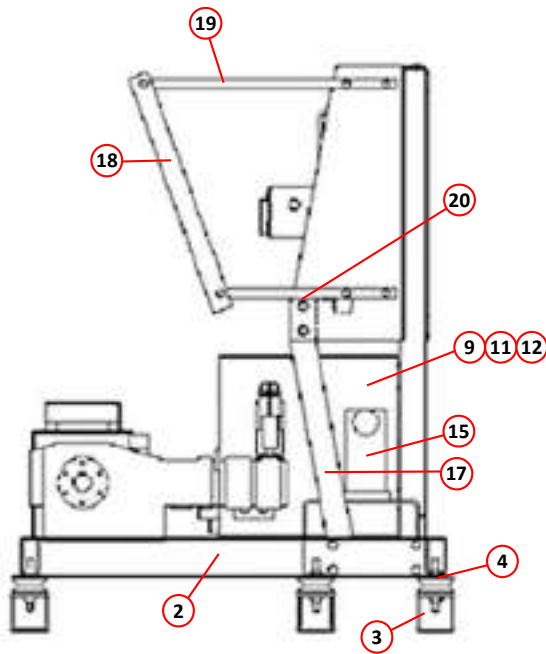
Notes:-

* Please contact Scarab Parts Department for all internal components of this pump.



High Pressure Water Pump 75 Litres/Minute - Components

Item	Part Number	Quantity	Description
High Pressure Water Pump - Pratissoli 59 litres/minute - (Option)			
1	026992	1	Water pump, Pratissoli, 250 bar
2	026987	1	. Frame, water pump
3	026990	6	. . Mounting pad
4	026999	6	. . . A/V mount AVM 2314S
5	026993	1	. . Motor hydraulic A2FM90/61W-VBB
6	026988	1	. . . Mounting hydraulic motor
7	026884	1	. . Coupling 250 bar high-volume pump
8	026989	1	. . . Coupling cover
9	022616	1	Oil tank assembly
10	002105	1	. Pressure gauge 0-400 bar
11	025623	1	. Float switch
12	023515	1	. Temp switch N/O $\frac{3}{8}$ " BSP
13	026994	1	. Regulator valve
14	026995	1	. Safety valve (250 bar)
15	026998	1	. Manifold, control
NI	028595	1	. . Manifold mounting bracket
16	025374	1	Oil cooler assembly
17	026991	1	. Leg, cooler frame
18	027001	2	. Deflector, oil cooler
19	027013	4	. Top support, oil cooler
20	027014	4	. Bottom support, oil cooler
NI	003027	1	Tee 1" galvanised
NI	003028	1	Elbow 1" galvanised
NI	001091	1	Hose $\frac{3}{8}$ " x 2800mm, stainless steel
NI	001120	1	Hose $\frac{3}{4}$ " x 1000mm, stainless steel
NI	001122	1	Hose $\frac{3}{4}$ " x 1000mm, stainless steel
NI	001123	1	Hose $\frac{3}{4}$ " x 1300mm, stainless steel



Pratissoli 59 Litres/Minute 250 Bar High Pressure Pump

Hydraulic System and Gantry

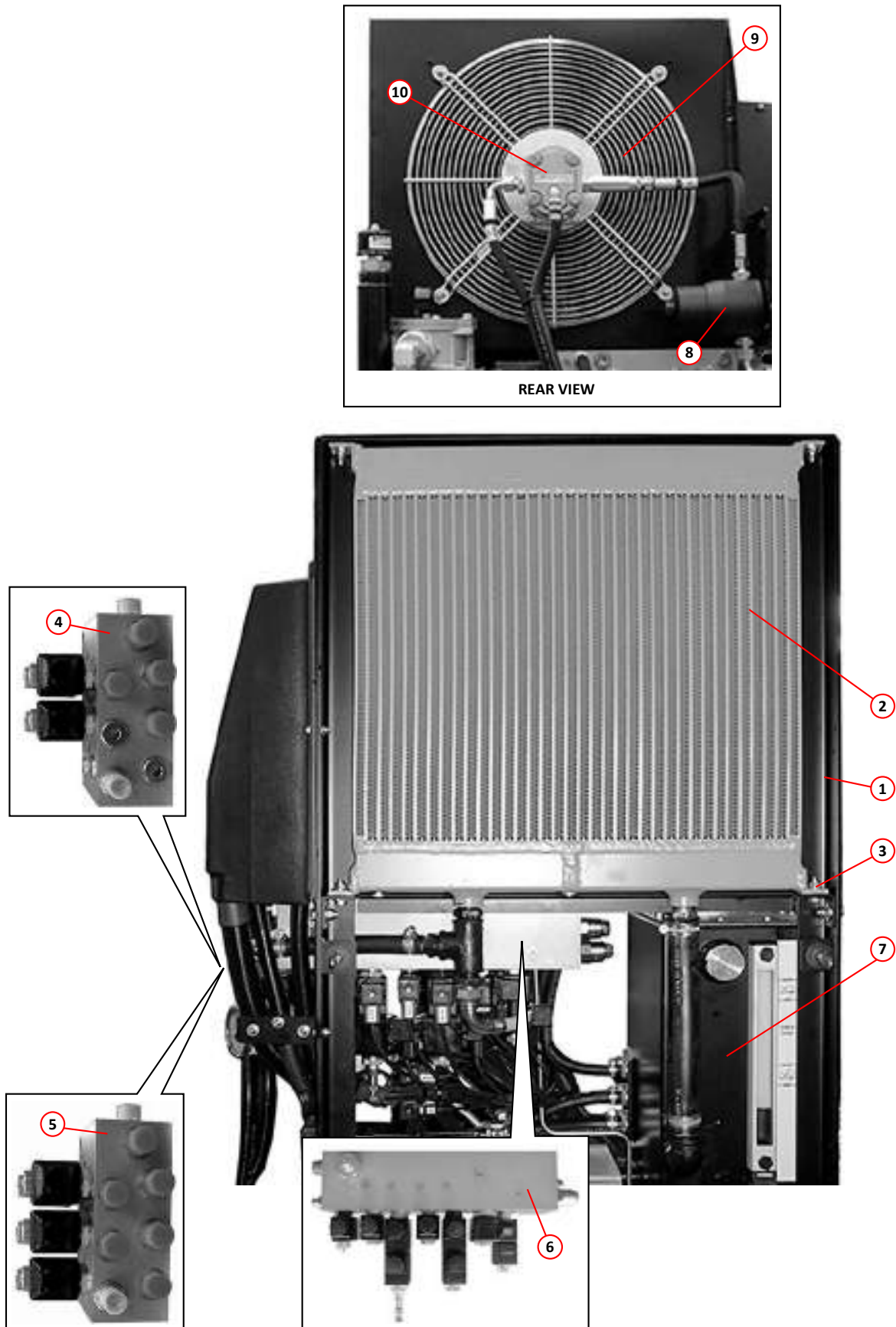
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Item	Part Number	Quantity	Description
Gantry General Arrangement			
1	037086	1	Oil cooler frame Page 360
2	031732	1	. Oil cooler Page 460
3	030487	2	. . Bracket, oil cooler
	011011	6	. . . Set screw, M8 x 25mm
	011073	6	. . . Nut, M8, Nyloc
	011092	12	. . . Washer, M8
	028646	AR	. . . Washer, packing, rubber
4	*	1	. Valve block, options Page 476
	011143	1	. . Set screw, M6 x 70mm
	011071	1	. . Nut, M6, Nyloc
	011010	1	. . Set screw, M8 x 20mm
	011073	1	. . Nut, M8, Nyloc
5	*	1	. Valve block, brushes Page 476
	011143	1	. . Set screw, M6 x 70mm
	011071	1	. . Nut, M6, Nyloc
	011010	1	. . Set screw, M8 x 20mm
	011073	1	. . Nut, M8, Nyloc
6	*	1	. Valve block, main control Page 468, 472
7	022616	1	. Hydraulic oil tank, assembly, HYDROSTATIC Page 462
NI	023743	1	. Hydraulic oil tank, assembly, UNIDRIVE Page 464
8	025103	1	. Filter, high pressure Page 502
9	031734	1	. Cooler fan assembly Page 460
	023504	4	. . Anti vibration mounting
	023505	4	. . Anti vibration mounting
	011092	4	. . Washer, M8
	011013	4	. . Set screw, M8 x 35mm
	011073	4	. . Nut, M8 Nyloc
10	028752	1	. Motor. hydraulic, 16cc Page 510

Notes:-

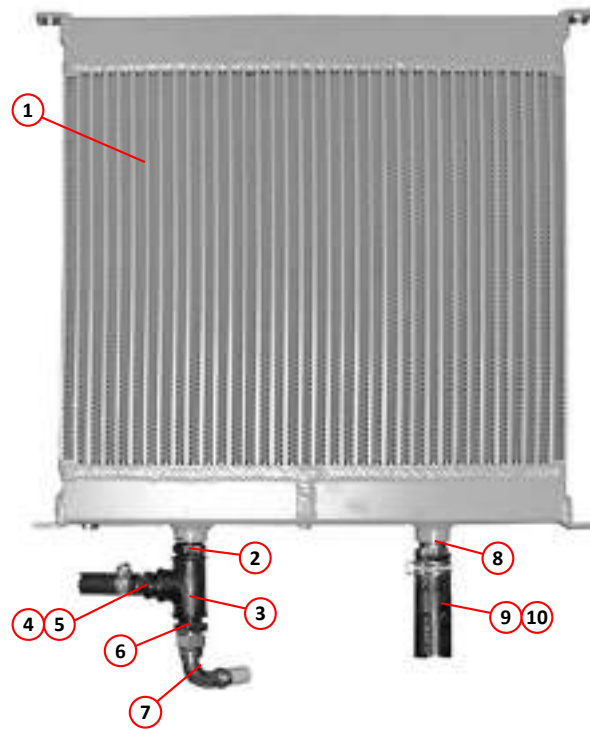
* Please contact your nearest Scarab Distributor or the Scarab Parts Department if you require to purchase these items.



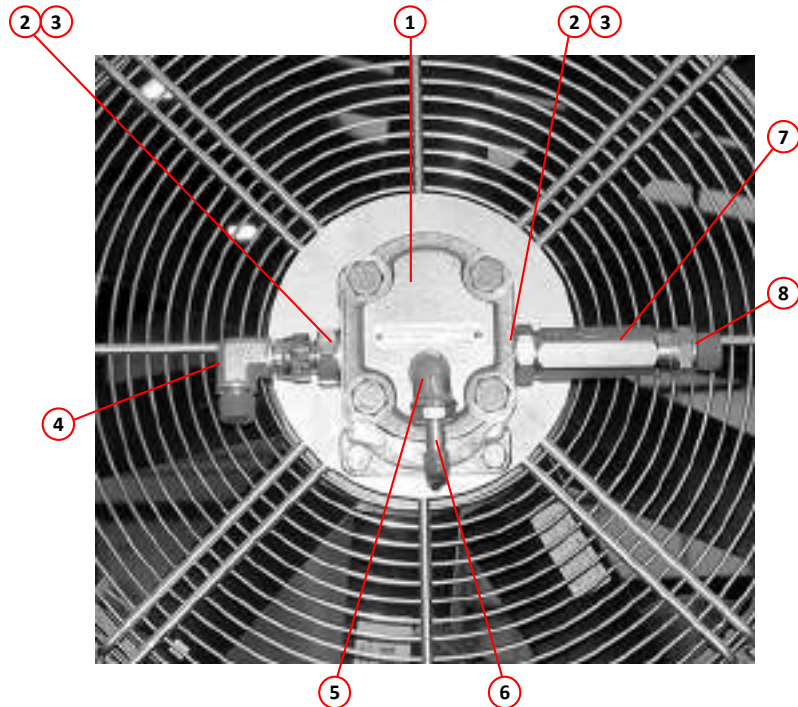
Gantry General Arrangement

Item	Part Number	Quantity	Description
Oil Cooler - Components			
1	031732	1	Oil cooler Page 458
2	010916	1	Adaptor, galvanised, M/M, $\frac{3}{4}$ " BSP
3	010919	1	Tee, galvanised, M/M, $\frac{3}{4}$ " BSP
4	010946	1	Adaptor, galvanised, M/F, $\frac{3}{4}$ " x $\frac{3}{8}$ " BSP
5	010930	1	Hose tail, $\frac{3}{8}$ " BSP x $\frac{5}{8}$ " hose
6	011166	1	Adaptor, $\frac{3}{4}$ " BSP x $\frac{5}{8}$ " hose
7	011234	1	Elbow, hose tail, $\frac{1}{2}$ " BSP x $\frac{5}{8}$ " hose
8	010931	1	Hose tail, $\frac{3}{4}$ " BSP x 1" hose
9	011000	1	Pipe, rubber, 1" bore x 200mm
10	010518	1	Clamp, worm drive, 30-40mm

Item	Part Number	Quantity	Description
Cooler Fan Motor - Assembly			
1	028752	1	Motor, hydraulic, 16cc Page 360
	020883	1	Bracket, fan mounting
2	011166	2	Adaptor, M/M, $\frac{1}{2}$ " x $\frac{3}{8}$ " BSP
3	011152	2	Seal, Dowty, $\frac{1}{2}$ " BSP
4	011172	1	Elbow, swivel, M/F, $\frac{3}{8}$ " BSP
5	010910	1	Elbow, galvanised, M/M, $\frac{1}{4}$ " BSP
6	010922	1	Hose Tail $\frac{1}{4}$ " x $\frac{3}{8}$ " hose
7	011729	1	Valve, non return, M/M, $\frac{1}{4}$ " BSP
8	011167	1	Adaptor, M/M, $\frac{3}{8}$ " BSP



Oil Cooler

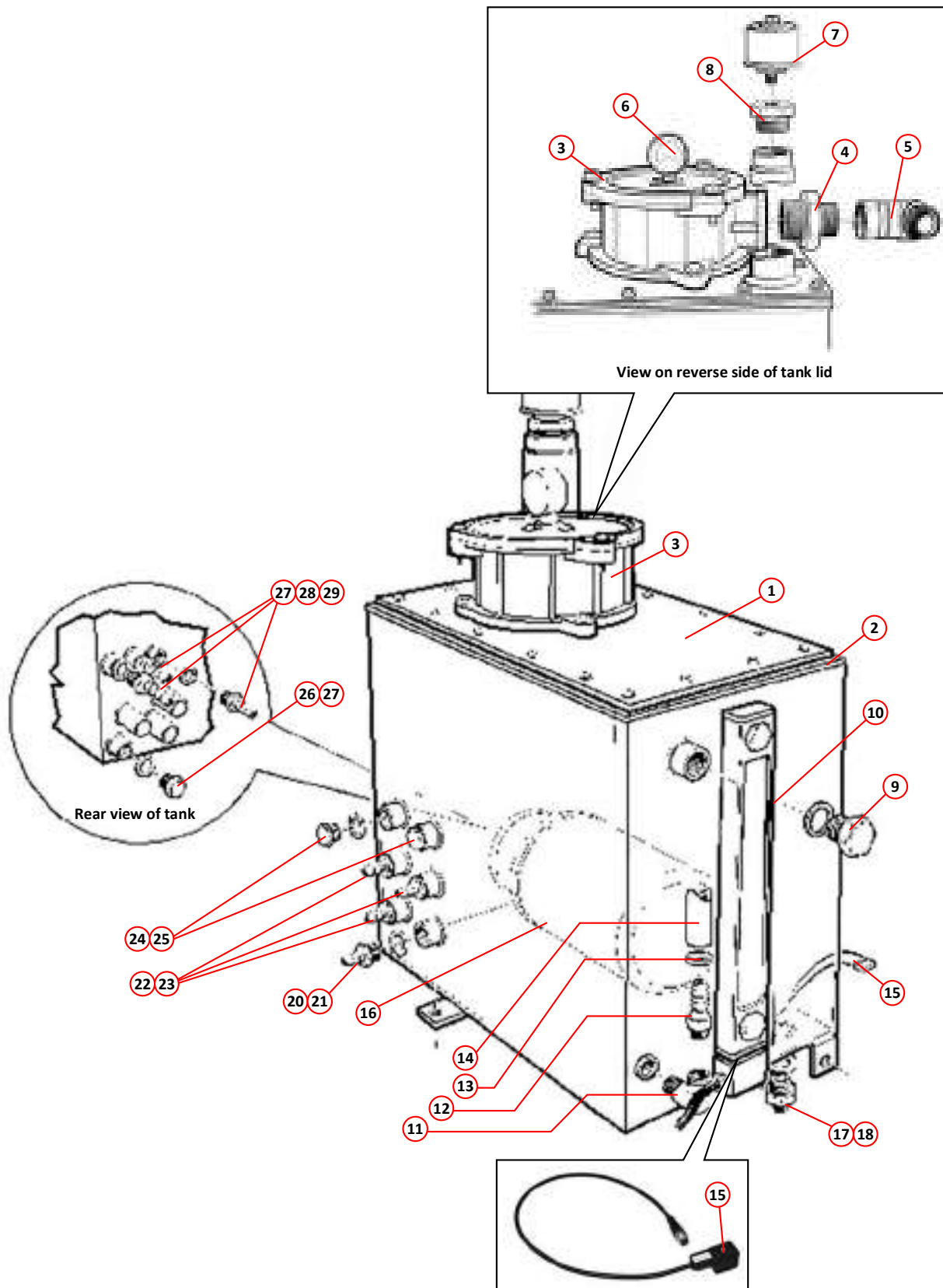


Cooler Fan Motor - Assembly

Item	Part Number	Quantity	Description
Hydraulic Tank Arrangement - Hydrostatic Machines			
1	022410	1	Tank, hydraulic oil, c/w lid Page 458
	011031	3	. Set screw, M10 x 25mm (tank to sub frame)
	011094	6	. Washer, M10
	011075	3	. Nut, M10, Nyloc
	011111	16	. Screw, 10-32 x $\frac{1}{2}$ " (tank lid)
2	022478	1	. Gasket, tank lid
3	013123	1	. Filter, return
NI	024405	1	. . O-Ring kit for 013123
	011032	3	. . Set screw, M10 x 30mm
	011075	3	. . Nut, M10, Nyloc
NI	013125	1	. . Element, return filter
4	011184	1	. . Adaptor, M/M, $\frac{1}{4}$ " x $\frac{3}{4}$ " BSP
NI	011150	1	. . . Seal, Dowty, $\frac{1}{4}$ " BSP
5	011175	1	. . Elbow, swivel, M/F, $\frac{3}{4}$ " BSP
6	021719 *	1	. Gauge
7	020688	1	. Cap, filler/breather
NI	011156	1	. . Seal, Dowty, 1" BSP
8	020689	1	. . Plug, filler
9	011136	1	. Plug, blanking, $\frac{1}{4}$ " BSP
NI	011156	1	. . Seal, Dowty, 1" BSP
10	024039	1	. Gauge, fluid level Page 556
NI	021979	2	. . Washer, sealing, rubber
11	011234	1	. Elbow, galvanised, M/F, $\frac{3}{4}$ " BSP
12	010959	1	. . Hose tail, $\frac{3}{4}$ " BSP x 1" hose
13	010518	2	. . Clamp, worm drive, 30-40mm
14	011000	AR	. . Hose, Rubber 1" bore
15	010305	1	. Magnet
16	020687	1	. Element, suction filter
17	011224	1	. Adaptor, M/M, $\frac{3}{4}$ " x $\frac{3}{8}$ " BSP
18	011124	1	. . Seal, Dowty, $\frac{3}{4}$ " BSP
19	036842	1	. Plug with cable and connector Page 554
20	010923	1	. Hose tail, $\frac{3}{8}$ " BSP x $\frac{5}{8}$ " hose
21	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
22	010923	4	. Hose tail, $\frac{3}{8}$ " BSP x $\frac{3}{8}$ " hose
23	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
24	011242	2	. Plug, blanking, $\frac{3}{8}$ " BSP
25	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
26	011124	1	. Plug, blanking, $\frac{3}{4}$ " BSP (single hydraulic pump)
27	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
27	010931	1	. Hose tail, $\frac{3}{4}$ " BSP x 1" hose (double hydraulic pump)
NI	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
28	011235	3	. Hose tail, $\frac{1}{2}$ " BSP x $\frac{5}{8}$ " hose
29	011154	1	. . Seal, Dowty, $\frac{1}{2}$ " BSP

Notes:-

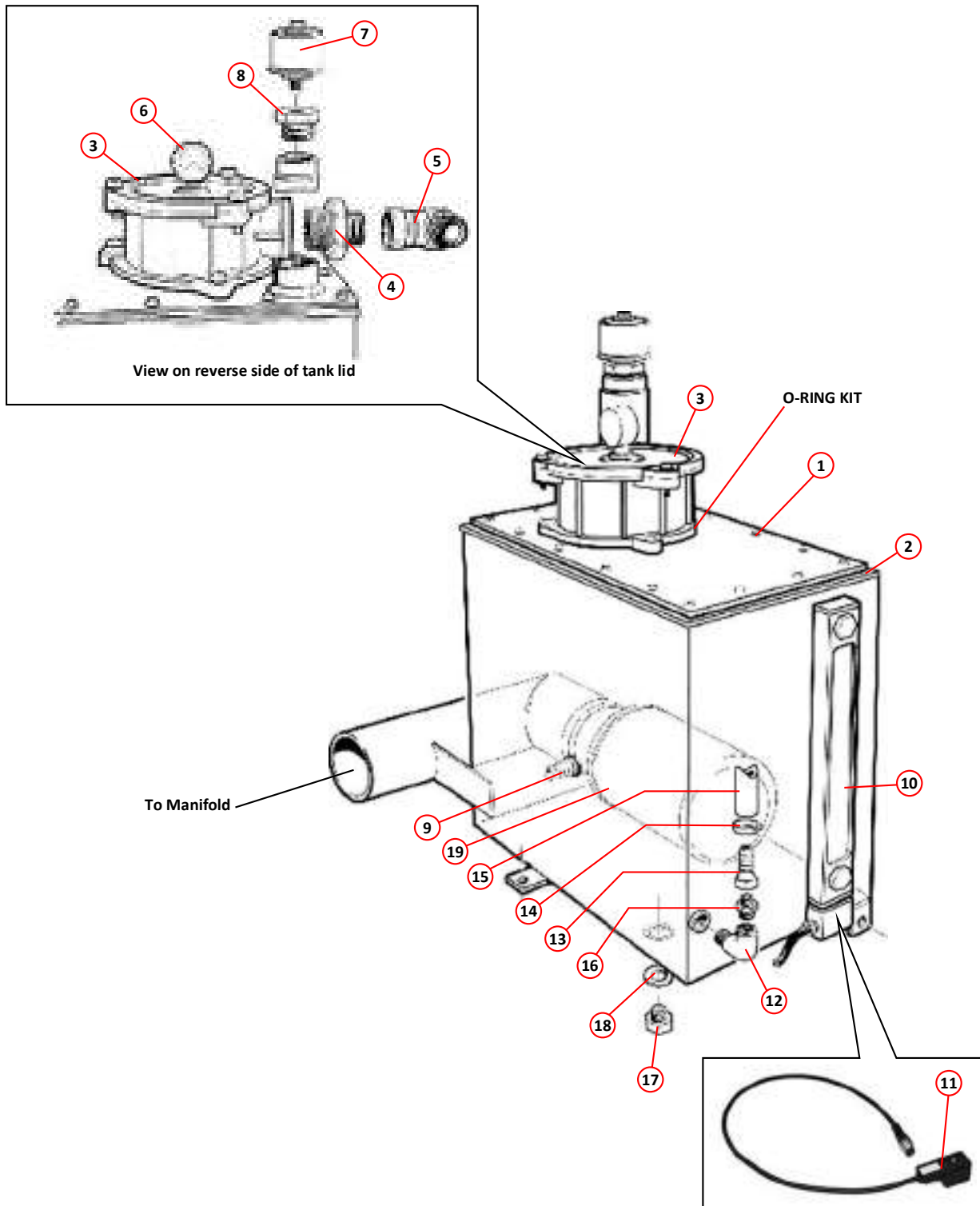
* Gauge not fitted after December 2014.



Item	Part Number	Quantity	Description
Hydraulic Tank Arrangement - UniDrive Machines			
1	023742	1	Tank, hydraulic oil, c/w lid Page 458
	011031	3	. Set screw, M10 x 25mm (tank to sub frames)
	011094	6	. Washer, M10
	011075	3	. Nut, M10, Nyloc
	011111	16	. Screw, 10-32 x $\frac{1}{2}$ " (tank lid)
2	022478	1	. Gasket, tank lid
3	013123	1	. Filter, return
NI	024405	1	. . O-Ring kit for 013123
NI	013125	1	. . Element, return filter
	011032	3	. . . Set screw, M10 x 30mm
	011075	3	. . . Nut, M10, Nyloc
4	011252	1	. . Adaptor, M/M, $\frac{1}{4}$ " x $\frac{3}{4}$ " BSP
NI	011150	1	. . . Seal, Dowty, $\frac{1}{4}$ " BSP
5	011175	1	. . Elbow, swivel, M/F, $\frac{3}{4}$ " BSP
6	021719 *	1	. . Gauge
7	020688	1	. Cap, filler/breather
NI	011156	1	. . Seal, Dowty, 1" BSP
8	020689	1	. . Plug, filler
9	011235	1	. Hose tail, $\frac{3}{8}$ " BSP x $\frac{5}{8}$ " hose
NI	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
10	024039	1	. Gauge, fluid level (c/w screws - max torque = 10 Nm)
NI	021979	2	. . Washer, sealing, rubber
11	036842	1	. . Plug with cable and connector Page 554
12	011234	1	. Elbow, galvanised, M/F, $\frac{3}{4}$ " BSP
13	011160	1	. . Hose tail, $\frac{3}{4}$ " BSP x 1" hose
14	010517	2	. . Clamp, worm drive, 18-25mm
15	010959	AR	. . Hose, rubber $\frac{1}{4}$ " bore
16	011224	1	. Adaptor, $\frac{3}{4}$ " x $\frac{3}{8}$ " BSP
17	011244	1	. Plug, blanking, $\frac{3}{4}$ " BSP
18	011155	1	. Seal, Dowty, $\frac{3}{4}$ " BSP
19	020687	1	. Element, suction filter
NI	010305	1	. Magnet

Notes:-

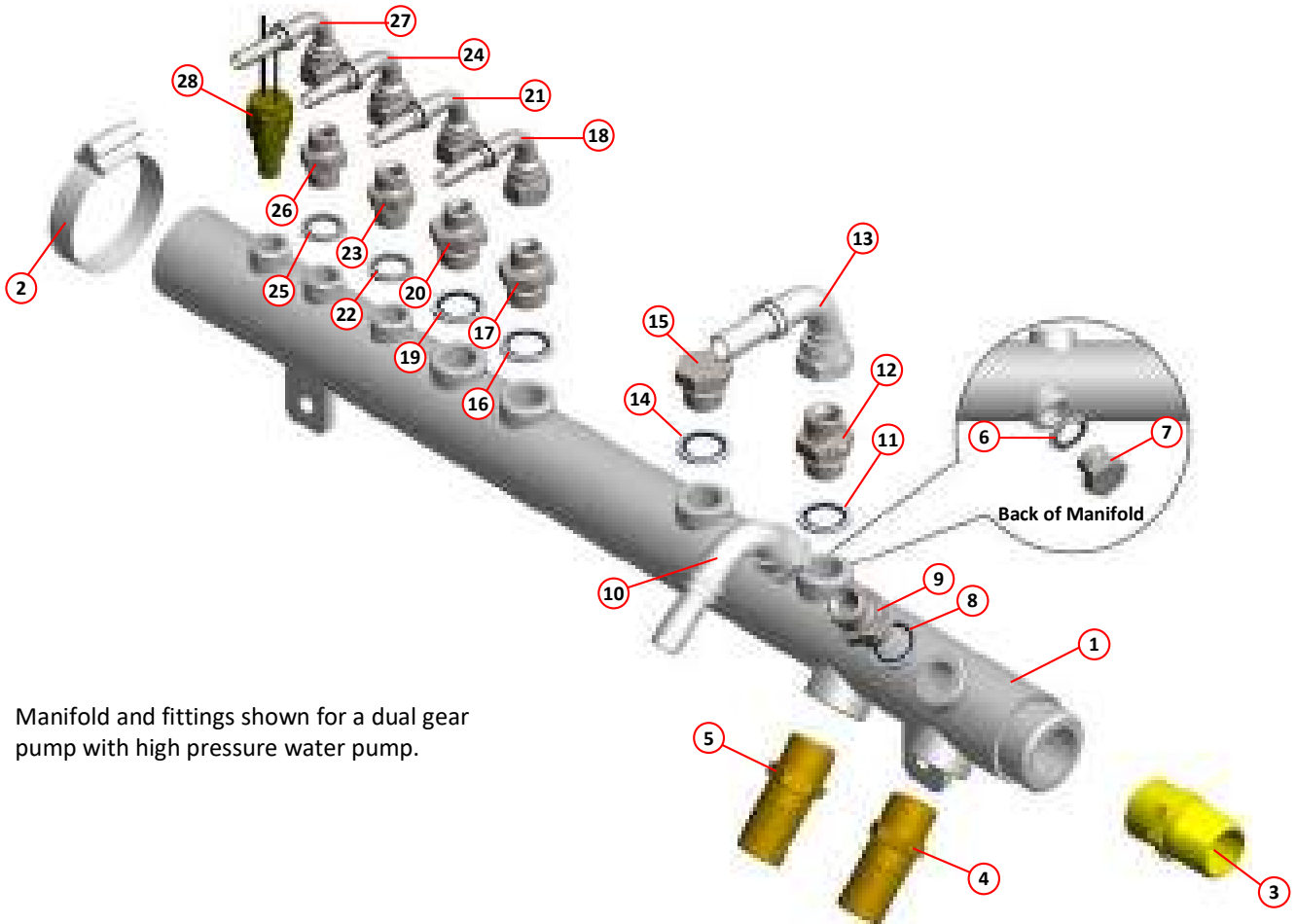
* Gauge not fitted after December 2014.



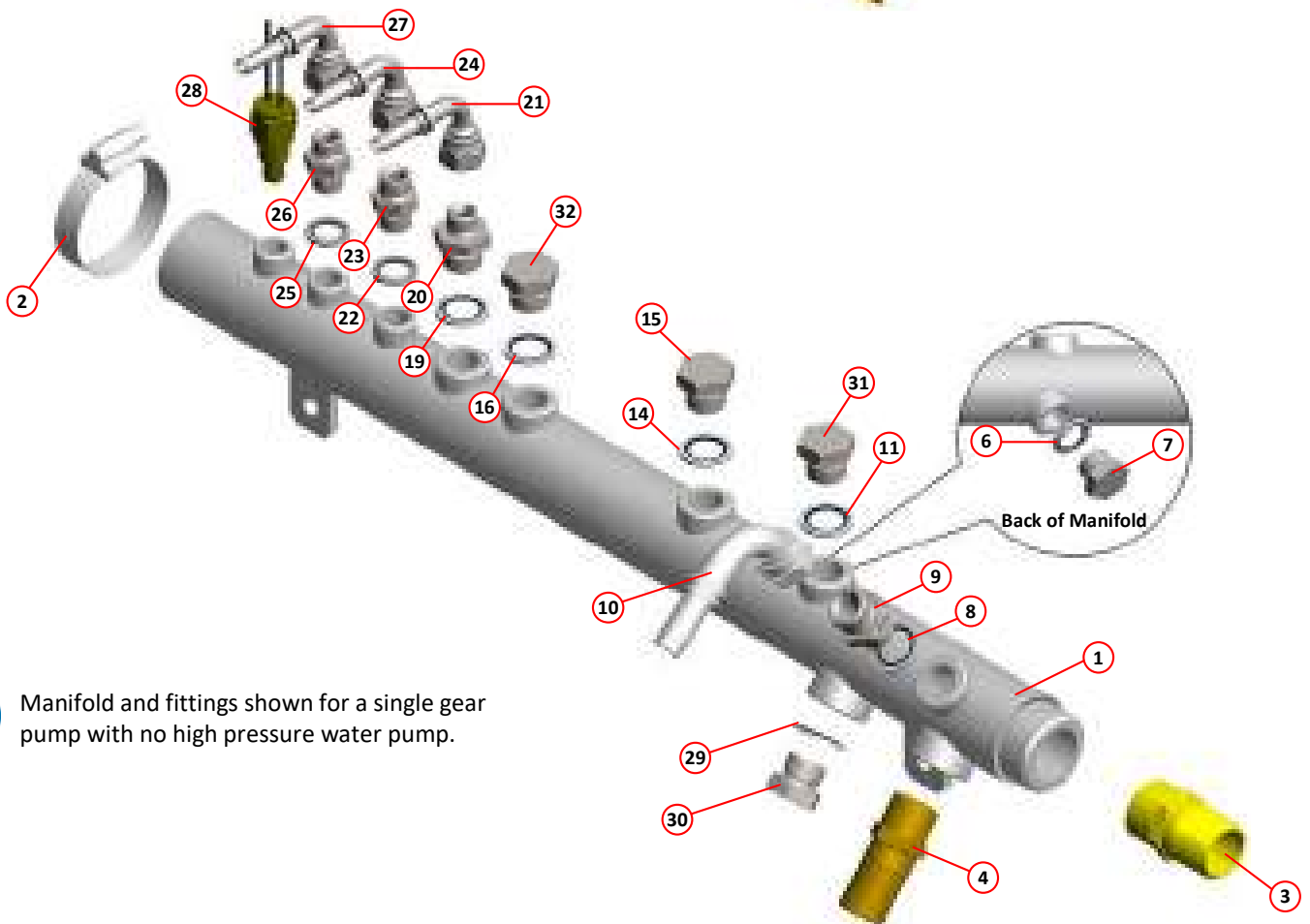
Item	Part Number	Quantity	Description
			Hydraulic Manifold - UniDrive Machines *
1	026701	1	Manifold, Merlin/Magnum Unidrive
NI	022762	1	Hose, rubber, 2" bore x 250mm
2	028778	2	Clamp, worm drive, hi-torque, size 70mm
3	003029	1	Hose tail, $\frac{1}{4}$ " BSP x $\frac{1}{2}$ " hose
4	010931	1	Hose tail, $\frac{3}{4}$ " BSP x $\frac{1}{2}$ " hose
5	010931	1	Hose tail, $\frac{3}{4}$ " BSP x $\frac{1}{2}$ " hose (Dual gear pump)
6	011154	1	Seal, Dowty, $\frac{1}{2}$ " BSP
7	011243	1	Plug, $\frac{1}{2}$ " BSP
8	011154	1	Seal, Dowty, $\frac{1}{2}$ " BSP
9	011160	1	Adaptor, M/M, $\frac{1}{2}$ " BSP
10	011234	1	Elbow, swivel, swept, $\frac{1}{2}$ " BSP x $\frac{5}{8}$ " hose
11	011154	1	Seal, Dowty, $\frac{1}{2}$ " BSP
12	011160	1	Adaptor, M/M, $\frac{1}{2}$ " BSP
13	011234	1	Elbow, swivel, swept, $\frac{1}{2}$ " BSP x $\frac{5}{8}$ " hose
14	011154	1	Seal, Dowty, $\frac{1}{2}$ " BSP
15	011243	1	Plug, $\frac{1}{2}$ " BSP
16	011154	1	Seal, Dowty, $\frac{1}{2}$ " BSP
17	011167	1	Adaptor, M/M, $\frac{1}{2}$ " x $\frac{3}{8}$ " BSP
18	002048	1	Elbow, swivel, swept, $\frac{3}{8}$ " BSP x $\frac{3}{8}$ " hose
19	011154	1	Seal, Dowty, $\frac{1}{2}$ " BSP
20	011167	1	Adaptor, M/M, $\frac{1}{2}$ " x $\frac{3}{8}$ " BSP
21	002048	1	Elbow, swivel, swept, $\frac{3}{8}$ " BSP x $\frac{3}{8}$ " hose
22	011153	1	Seal, Dowty, $\frac{3}{8}$ " BSP
23	011159	1	Adaptor, M/M, $\frac{3}{8}$ " BSP
24	002048	1	Elbow, swivel, swept, $\frac{3}{8}$ " BSP x $\frac{3}{8}$ " hose
25	011153	1	Seal, Dowty, $\frac{3}{8}$ " BSP
26	011159	1	Adaptor, M/M, $\frac{3}{8}$ " BSP
27	002048	1	Elbow, swivel, swept, $\frac{3}{8}$ " BSP x $\frac{3}{8}$ " hose
28	023515	1	. Switch, temperature operated (90° C), $\frac{3}{8}$ " BSP Page 556
29	011155	1	. Seal, Dowty, $\frac{3}{4}$ " BSP
30	011244	1	. Plug, $\frac{3}{4}$ " BSP
31	011243	1	. Plug, $\frac{1}{2}$ " BSP
32	011243	1	. Plug, $\frac{1}{2}$ " BSP (No high pressure water pump)
NI	011787	1	. Support bracket, front
NI	028537	1	. Support bracket, rear
NI	034014	1	. Support bracket, front, (XP)
NI	034015	1	. Support bracket, rear (XP)

Notes:-

* The hydraulic fittings are determined by the amount of options. Please contact the Scarab Parts Department quoting your machine's model and serial number, to ensure you procure the correct items.



i Manifold and fittings shown for a dual gear pump with high pressure water pump.

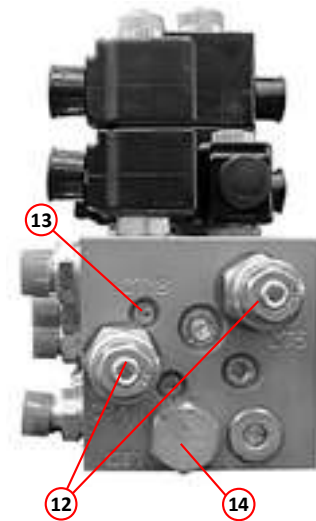
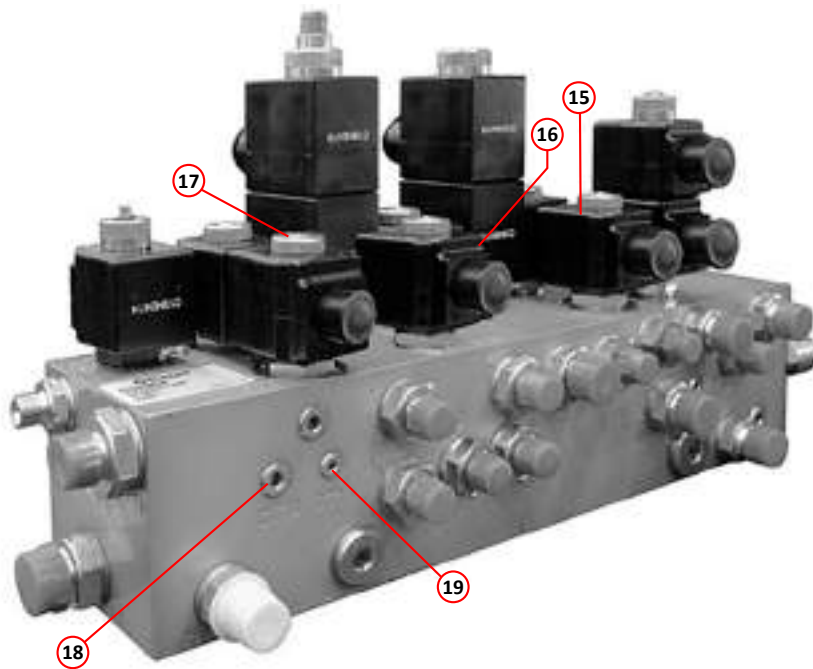
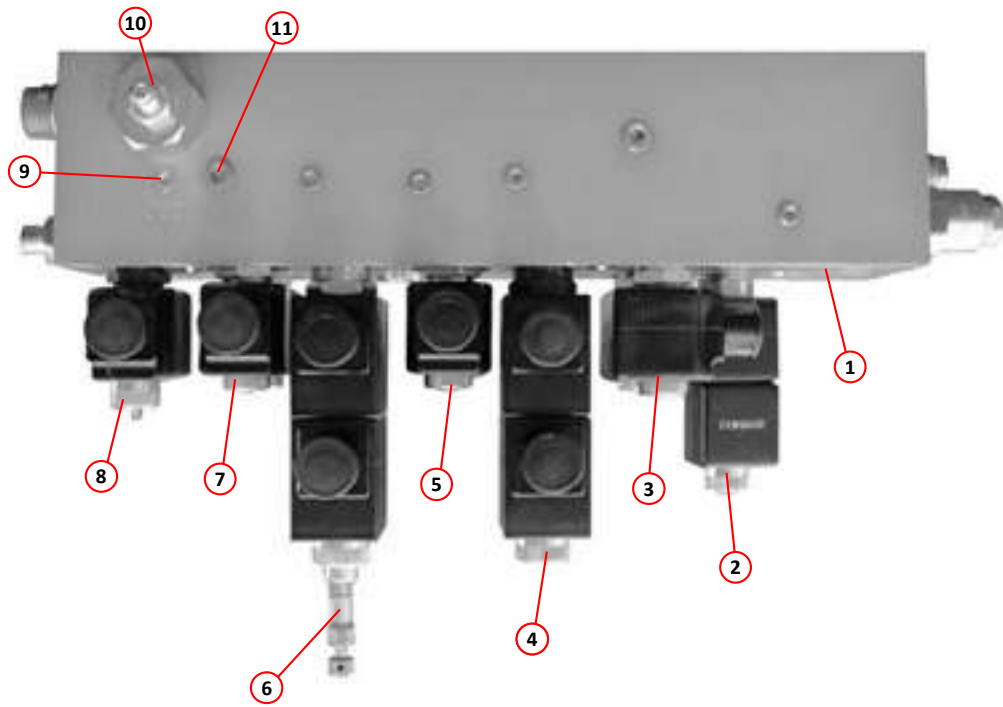


i Manifold and fittings shown for a single gear pump with no high pressure water pump.

Item	Part Number	Quantity	Description
Valve Block Assembly - Main Control			
1	*	1	Valve block, main control, assembly Page 458
2	034994	1	. Valve, solenoid, S271N (CT3)
	036922	2	. . Coil, 24 V, C13DM24/22 UN-D
	034996	1	. . . Seal kit, SK974
3	034982	1	. Valve, solenoid, S202N (CT9)
	036924	1	. . Coil, 24 V, C13DM24/14 UN-D
	034984	1	. . . Seal kit, SK1043
4	034992	1	. Valve, solenoid, S570N (CT2)
	036921	2	. . Coil, 24 V, C16DM24/19 UN-D
	034993	1	. . . Seal kit, SK1034
5	035210	1	. Valve, solenoid, S242N (CT7)
	036922	1	. . Coil, 24 V, C13DM24/22 UN-D
	034996	1	. . . Seal kit, SK974
6	035218	1	. Valve, solenoid, S571N-5 (CT19)
	036921	2	. . Coil, 24 V, C16DM24/19 UN-D
	034984	1	. . . Seal kit, SK1043
7	034982	1	. Valve, solenoid, S202N (CT12) complete with fly lead
	034986	1	. . Coil, 24 V, AXP25115
	034984	1	. . . Seal kit, SK1043
8	034999	1	. Valve, solenoid, S201N-3 (CT10)
	036924	1	. . Coil, 24 V, C13DM24/14 UN-D
	034984	1	. . . Seal kit, SK1043
9	035216	1	. Jet, M6 (ø0.7 orifice), AXP 14067 - 070 (CT17)
10	035212	1	. Valve, relief, 1VR100P20SA8TMUP (CT13)
11	036217	1	. Jet, M6 (ø2.0 orifice), AXP 6645 - 200 (CT15)
12	034997	2	. Valve, sequence, 1PSC30 - F - 20S (CT4/5)
	034998	2	. . Seal kit, SK395
13	035217	1	. Jet, M6 (ø1.0 orifice), AXP 14067 - 100 (CT18)
14	034990	1	. Valve, check, 4CK30 - 1S - 3 (CT1)
	034991	1	. . Seal kit, SK430
15	034982	1	. Valve, solenoid, S202N (CT8)
	036924	1	. . Coil, 24 V, C13DM24/14 UN-D
	034984	1	. . . Seal kit, SK1043
16	035241	1	. Cavity plug, AXP8444 -10T (CT6)
17	034982	1	. Valve, solenoid, S202N (CT11) complete with fly-lead
	034986	1	. . Coil, 24 V, AXP25115
	034984	1	. . . Seal kit, SK1043
18	035214	1	. Jet, M6 (ø2.8 orifice), AXP 6645 - 280 (CT14)
19	036218	1	. Jet, M6 (ø1.6 orifice), AXP 14067 - 160 (CT16)
NI	035241	AR	. Cavity plug, AXP8444-10T

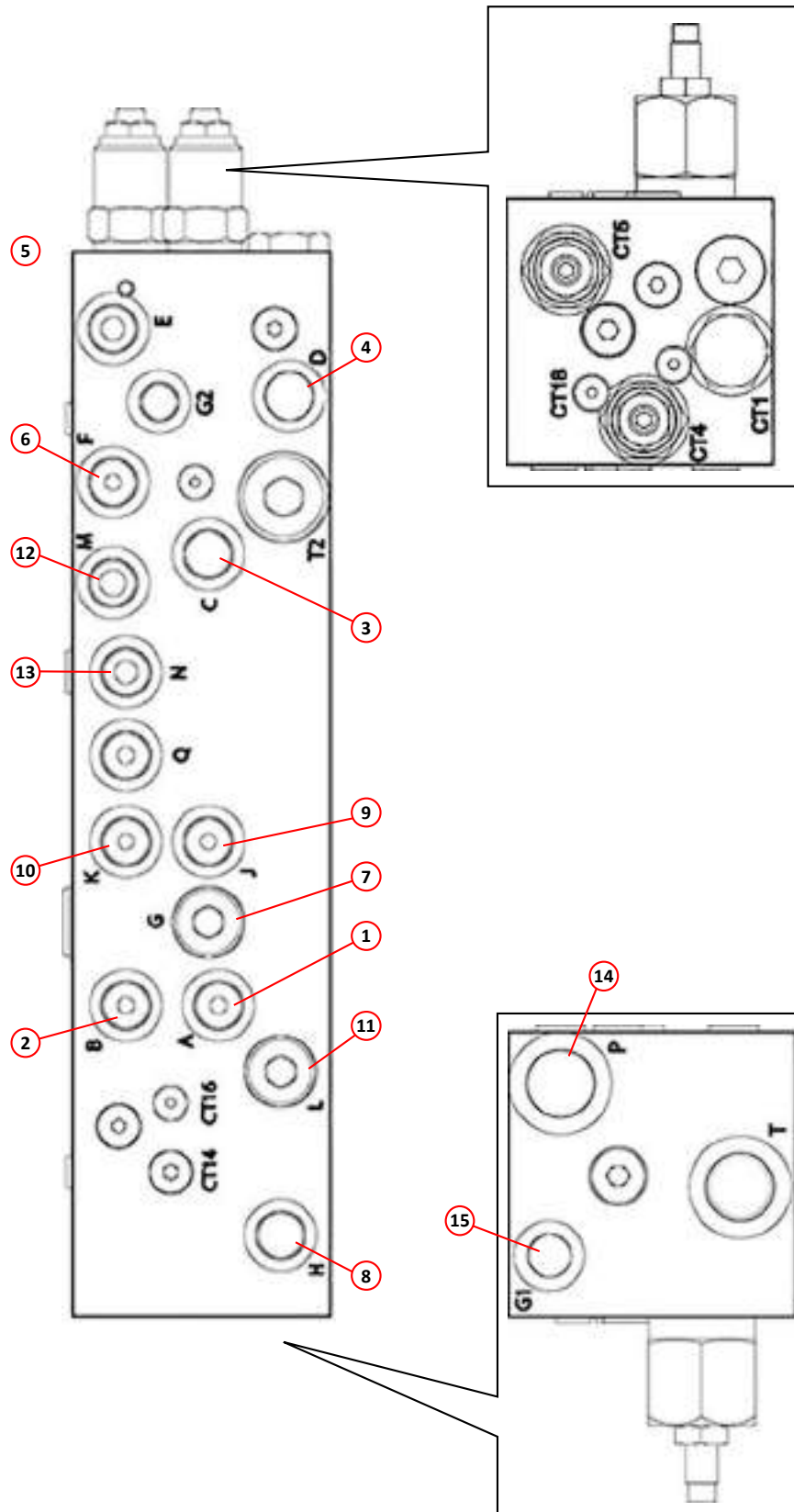
Notes:-

* Please contact the Scarab Parts Department quoting your machine's serial number and model.



Main Control Value Block

Item	Part Number	Quantity	Description
Valve Block Assembly - Main Control, Fittings			
1	011199	1	. Adaptor, M/M, $\frac{3}{8}$ " x $\frac{1}{4}$ " BSP (PORT A)
	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
2	011199	1	. Adaptor, M/M, $\frac{3}{8}$ " x $\frac{1}{4}$ " BSP (PORT B)
	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
3	011159	1	. Adaptor, M/M, $\frac{3}{8}$ " BSP (PORT C)
	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
4	011159	1	. Adaptor, M/M, $\frac{3}{8}$ " BSP (PORT D)
	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
5	011159	1	. Adaptor, M/M, $\frac{3}{8}$ " BSP (PORT E)
	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
6	011159	1	. Adaptor, M/M, $\frac{3}{8}$ " BSP (PORT F)
	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
7	011199	1	. Adaptor, M/M, $\frac{3}{8}$ " x $\frac{1}{4}$ " BSP (PORT G)
	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
8	020903	1	. Stud, male, $\frac{3}{8}$ " BSP x 12mm pipe (PORT H)
	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
9	011199	1	. Adaptor, M/M, $\frac{3}{8}$ " x $\frac{1}{4}$ " BSP (PORT J)
	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
10	011199	1	. Adaptor, M/M, $\frac{3}{8}$ " x $\frac{1}{4}$ " BSP (PORT K)
	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
11	035242	1	. Plug, $\frac{3}{8}$ " BSP (PORT L)
12	025160	1	. Stud, male, $\frac{3}{8}$ " BSP x 6mm pipe, (PORT M)
	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
13	025160	1	. Stud, male, $\frac{3}{8}$ " BSP x 6mm Pipe, (PORT N)
	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
14	011167	1	. Adaptor, M/M, $\frac{1}{2}$ " x $\frac{3}{8}$ " BSP (PORT P)
	011154	1	. . Seal, Dowty, $\frac{1}{4}$ " BSP
	011205	1	. . . Elbow, swivel, $\frac{1}{4}$ " M/F, $\frac{1}{4}$ " BSP
15	011158	1	. Adaptor, M/M, $\frac{1}{4}$ " BSP (PORT G1)
	011152	1	. . Seal, Dowty, $\frac{1}{4}$ " BSP

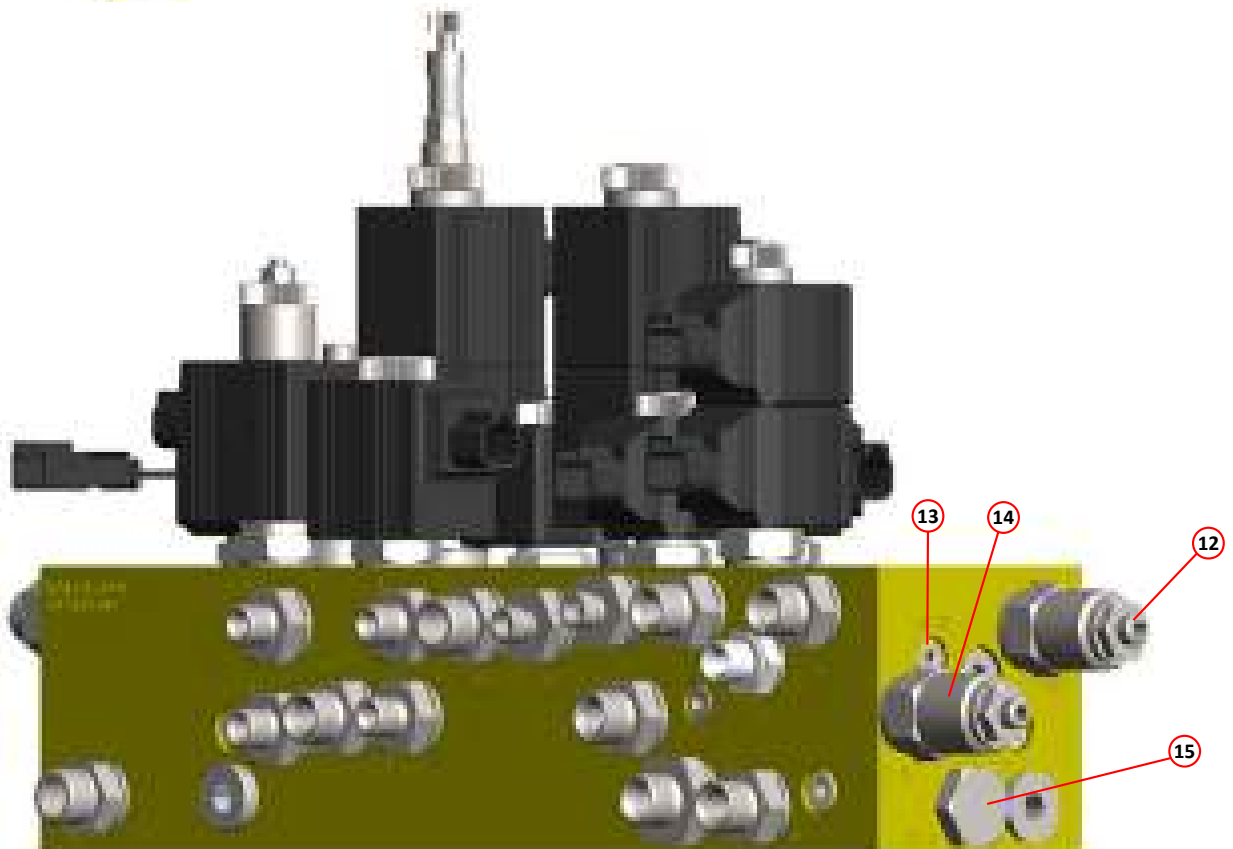
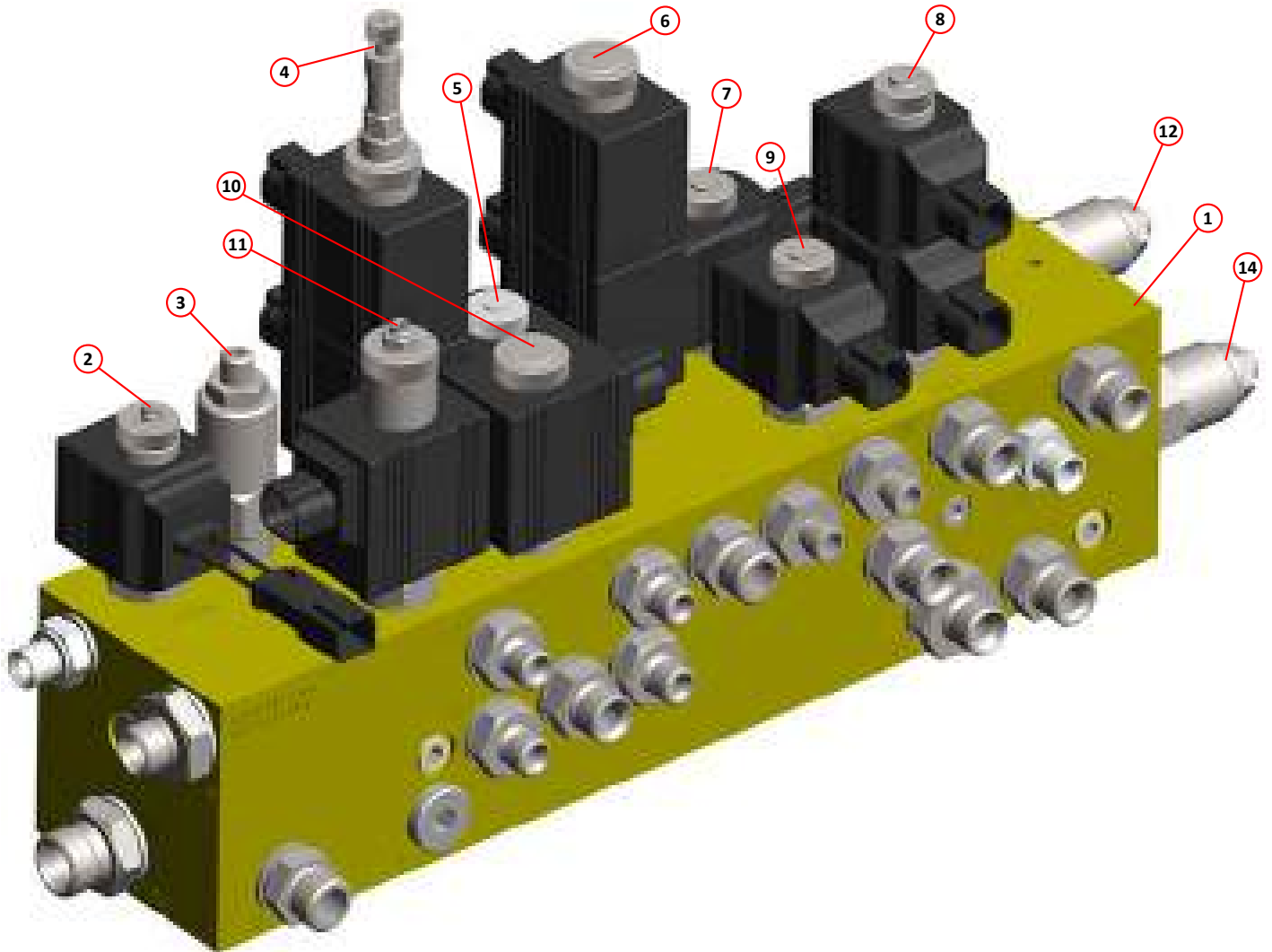


Main Valve Block Fittings

Item	Part Number	Quantity	Description
Valve Block - Main Control, Variable Brush Speed, Assembly			
1	*	1	Valve block, main control with variable brush speed, assembly Page 458
2	034999	1	. Solenoid valve, S201N-3 (CT10)
	034986	1	. . Coil, 24V/14W UN-D
	034993	1	. . . Seal kit, SK1034
3	039315	1	. Relief valve, 1DR30-P-40S (CT11)
4	035218	1	. Solenoid valve, 571N-4 (CT19)
	036921	2	. . Coil, C16DM24/21 UN-D
	034993	1	. . . Seal kit, SK1034
5	035210	1	. Solenoid valve, S242HN (CT7)
	036922	1	. . Coil, C16DM24/22 UN-D
	034996	1	. . . Seal kit, SK974
6	034992	1	. Solenoid valve, 570N (CT2)
	036921	2	. . Coil, C16DM24/21 UN-D
	034993	1	. . . Seal kit, SK1034
7	034982	1	. Solenoid valve, S202N (CT9)
	036924	1	. . Coil, C13DM24/14 UN-D
	034993	1	. . . Seal kit, SK1034
8	034994	1	. Solenoid valve, S271N (CT3)
	036922	1	. . Coil, C16DM24/22 UN-D
	034996	1	. . . Seal kit, SK974
9	034982	1	. Solenoid valve, S202N (CT9)
	036924	1	. . Coil, C13DM24/14 UN-D
	034993	1	. . . Seal kit, SK1034
10	034979	1	. Solenoid valve, S502N (CT6)
	036921	2	. . Coil, C16DM24/21 UN-D
	034993	1	. . . Seal kit, SK1034
11	039316	1	. Solenoid valve, proportional, PFR2-4AN (CT12)
	036921	2	. . Coil, C16DM24/21 UN-D
	034993	1	. . . Seal kit, SK1034
12	034997	1	. Sequence valve, 1PSC30-F-20S (CT8)
13	035217	1	. M6 Jet (1.0 Orifice) AXP14067-100 (CT18)
14	034997	1	. Sequence valve, 1PSC30-F-20S (CT4)
15	034990	1	. Check valve, 4CK30-1S-3 (CT1)

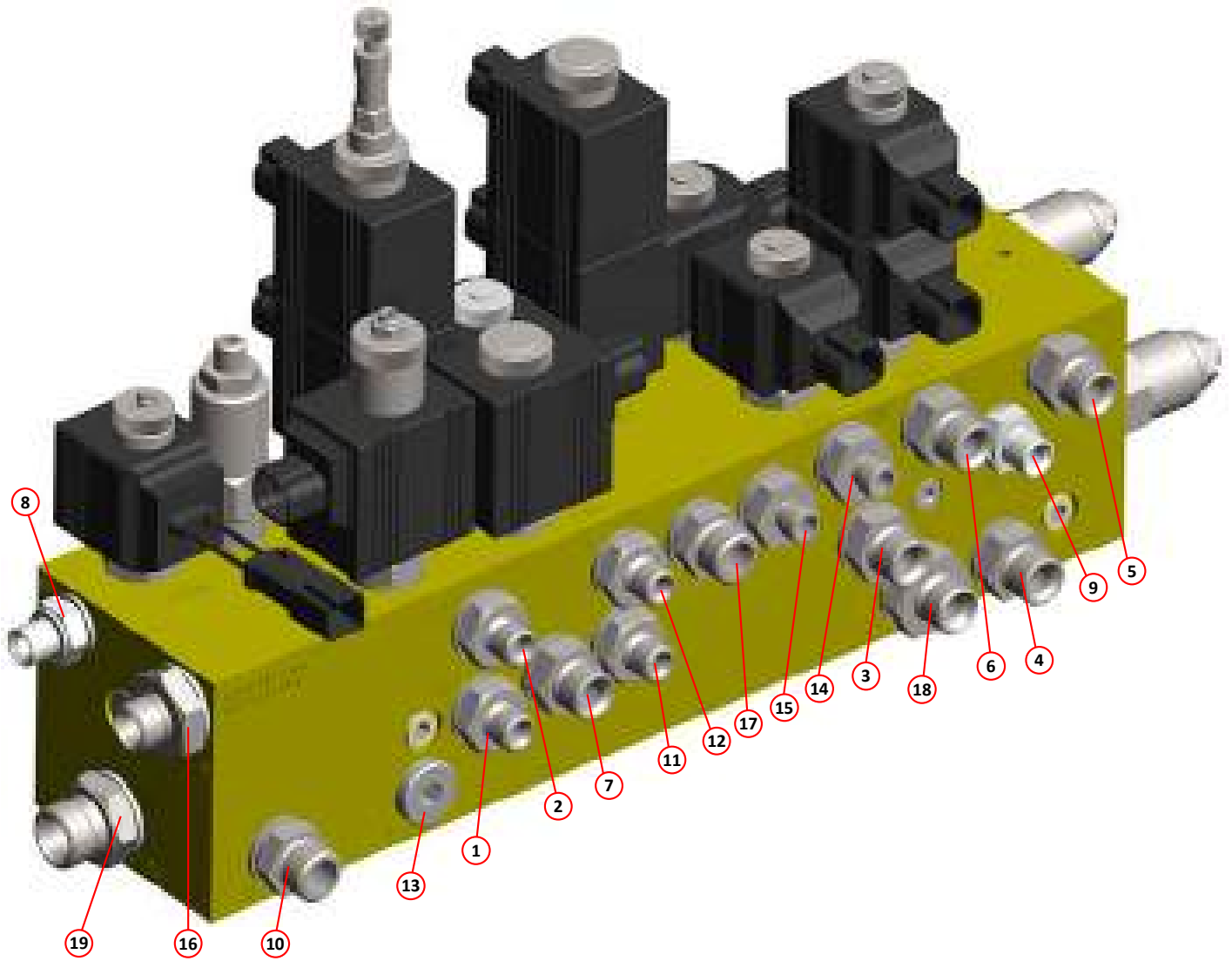
Notes:-

- * This is a fully populated valve block. Please contact the Scarab Parts Department quoting your machine's serial number and model for variations of this block depending on the options fitted to your sweeper.



Main Control Value Block with Variable Brush Speed

Item	Part Number	Quantity	Description
Valve Block - Main Control, Variable Brush Speed, Fittings			
1	011199	1	. Adaptor, M/M, $\frac{3}{8}$ " x $\frac{1}{4}$ " BSP (PORT A)
	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
2	011199	1	. Adaptor, M/M, $\frac{3}{8}$ " x $\frac{1}{4}$ " BSP (PORT B)
	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
3	011159	1	. Adaptor, M/M, $\frac{3}{8}$ " BSP (PORT C)
	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
4	011159	1	. Adaptor, M/M, $\frac{3}{8}$ " BSP (PORT D)
	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
5	011159	1	. Adaptor, M/M, $\frac{3}{8}$ " BSP (PORT E)
	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
6	011159	1	. Adaptor, M/M, $\frac{3}{8}$ " BSP (PORT F)
	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
7	011159	1	. Adaptor, M/M, $\frac{3}{8}$ " BSP (PORT G)
	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
8	011158	1	. . Adaptor, M/M, $\frac{1}{4}$ " BSP (PORT G1)
	011152	1	. . Seal, Dowty, $\frac{1}{4}$ " BSP
	011169	1	. . . Elbow, swivel, F/F, $\frac{1}{4}$ " BSP
	002014	1	 Adaptor, M/F, $\frac{1}{4}$ " BSP
	002104	1	 Gauge, pressure, 0-250 Bar
9	020902	1	. Stud, male, 6L x $\frac{1}{4}$ " BSP (PORT G2)
	011152	1	. . Seal, Dowty, $\frac{1}{4}$ " BSP
10	011159	1	. Adaptor, M/M, $\frac{3}{8}$ " BSP (PORT H)
	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
11	011199	1	. Adaptor, M/M, $\frac{3}{8}$ " x $\frac{1}{4}$ " BSP (PORT J)
	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
12	011199	1	. Adaptor, M/M, $\frac{3}{8}$ " x $\frac{1}{4}$ " BSP (PORT K)
	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
13	035242	1	. Plug, VSR, $\frac{3}{8}$ " BSP (870VSR13) (PORT L)
14	025160	1	. Stud, male, $\frac{3}{8}$ " BSP x 6mm pipe (PORT M)
	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
15	025160	1	. Stud, male, $\frac{3}{8}$ " BSP x 6mm Pipe (PORT N)
	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
16	011167	1	. Adaptor, M/M, $\frac{1}{2}$ " x $\frac{3}{8}$ " BSP (PORT P)
	011154	1	. . Seal, Dowty, $\frac{1}{2}$ " BSP
17	020903	1	. Stud, male, 12 x $\frac{3}{8}$ " BSP (PORT Q)
	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
18	011167	1	. Adaptor, M/M, $\frac{1}{2}$ " x $\frac{3}{8}$ " BSP (PORT T)
	011154	1	. . Seal, Dowty, $\frac{1}{2}$ " BSP
19	011160	1	. Adaptor, M/M, $\frac{1}{2}$ " BSP (PORT T1)
	011154	1	. . Seal, Dowty, $\frac{1}{2}$ " BSP
	011234	1	. . . Elbow, $\frac{1}{2}$ " BSP to $\frac{5}{8}$ " Hose



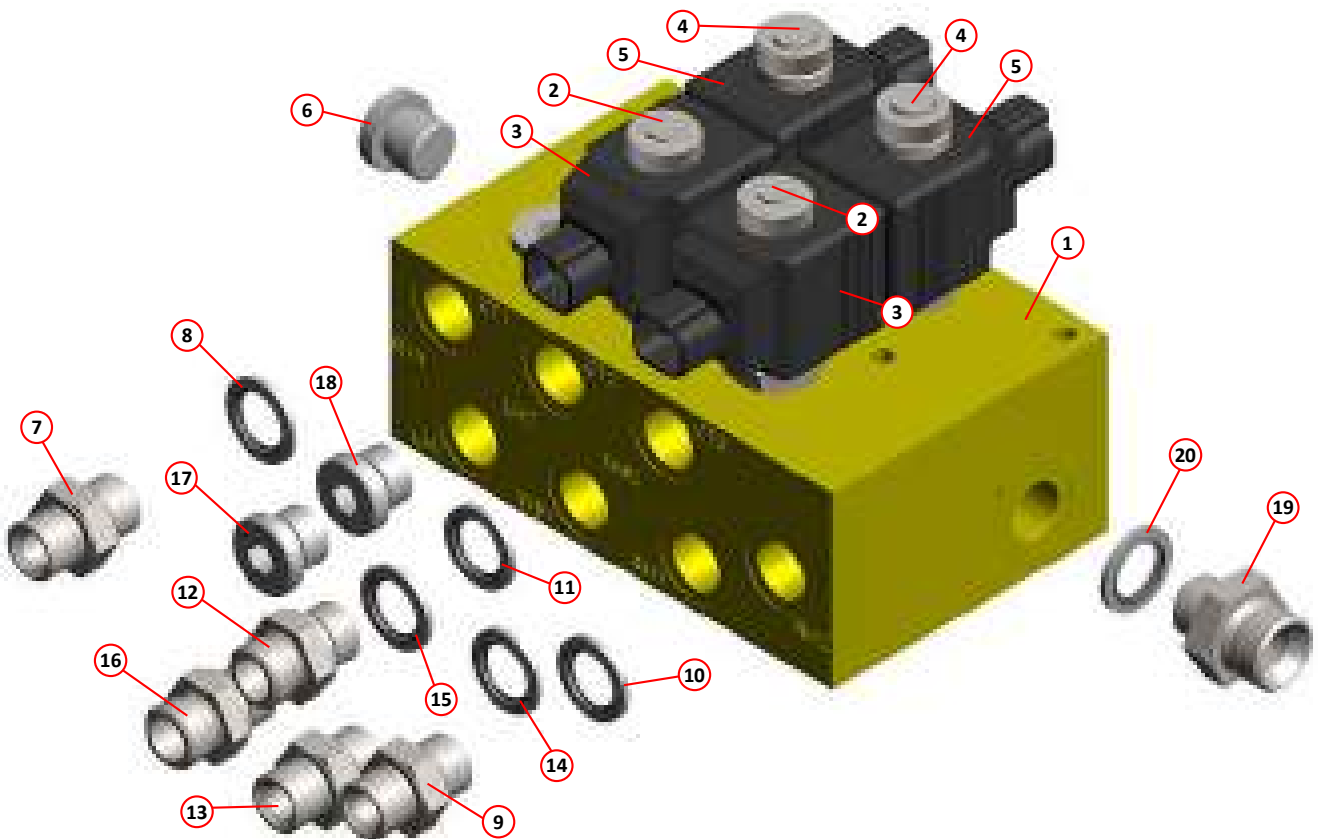
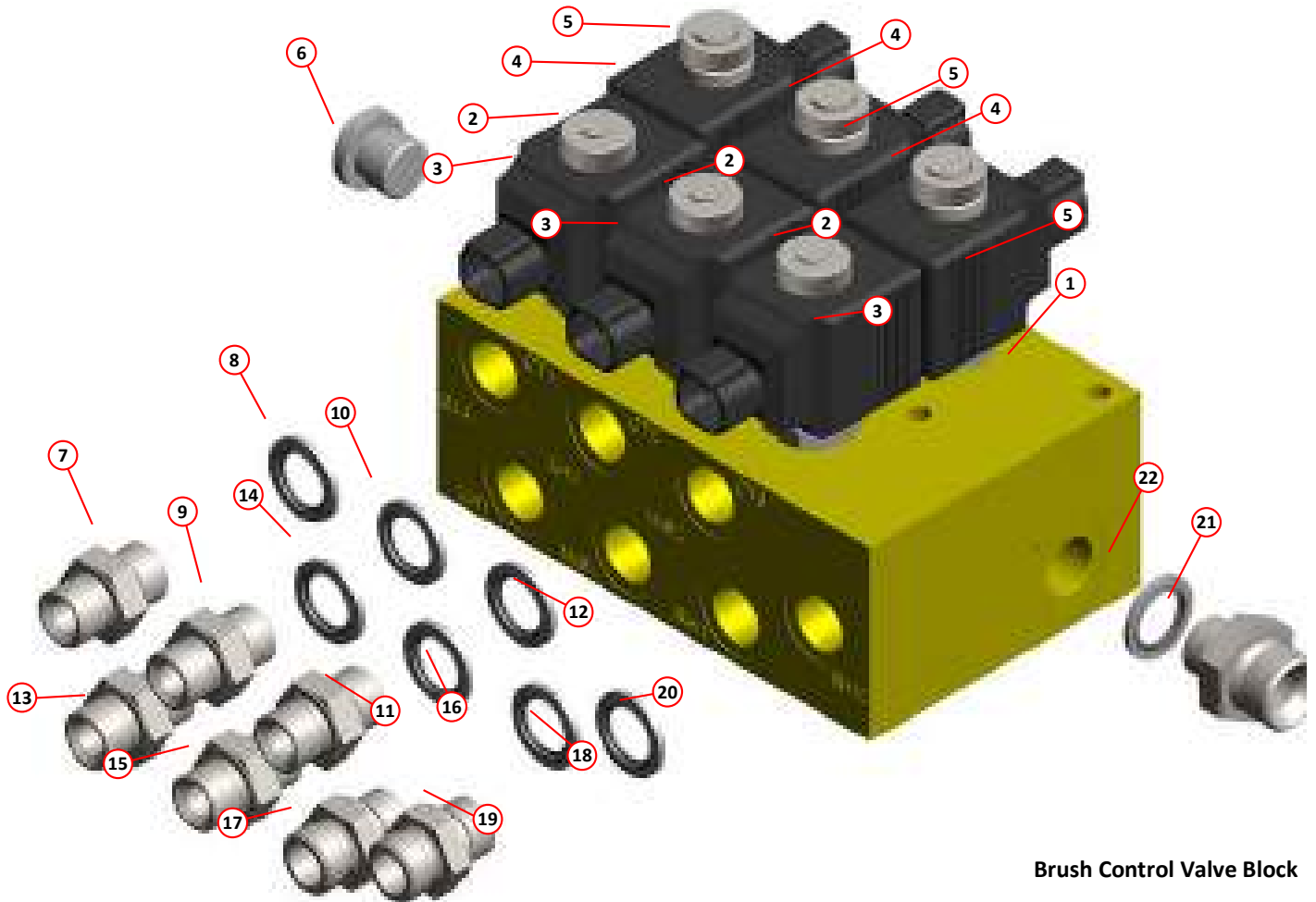
Main Control Valve Block - Variable Control - Fittings

Item	Part Number	Quantity	Description
Valve Block Assembly - Brush Control			
1	*	1	Valve block Page 458
2	034982	3	Valve, solenoid, S202N
3	036924	3	Coil, 24 V, C13DM24/14 UN-D
NI	034984	3	Seal kit, SK1043
4	034985	3	Valve, solenoid, S203N
5	036924	3	Coil, 24 V, C13DM24/14 UN-D
NI	034984	3	Seal kit, SK1043
6	035242	1	Plug, $\frac{3}{8}$ " BSP (PORT Q1B)
7	020903	1	Stud, male, $\frac{3}{8}$ " BSP x 12mm pipe (PORT Q1A)
8	011153	1	Seal, Dowty, $\frac{3}{8}$ " BSP
9	020903	1	Stud, male, $\frac{3}{8}$ " BSP x 12mm pipe (PORT LH2)
10	011153	1	Seal, Dowty, $\frac{3}{8}$ " BSP
11	020903	1	Stud, male, $\frac{3}{8}$ " BSP x 12mm pipe (PORT WS2)
12	011153	1	Seal, Dowty, $\frac{3}{8}$ " BSP
13	020903	1	Stud, male, $\frac{3}{8}$ " BSP x 12mm pipe (PORT LH1)
14	011153	1	Seal, Dowty, $\frac{3}{8}$ " BSP
15	020903	1	Stud, male, $\frac{3}{8}$ " BSP x 12mm pipe (PORT WS1)
16	011153	1	Seal, Dowty, $\frac{3}{8}$ " BSP
17	020903	1	Stud, male, $\frac{3}{8}$ " BSP x 12mm pipe (PORT RH1)
18	011153	1	Seal, Dowty, $\frac{3}{8}$ " BSP
19	020903	1	Stud, male, $\frac{3}{8}$ " BSP x 12mm pipe (PORT RH2)
20	011153	1	Seal, Dowty, $\frac{3}{8}$ " BSP
21	020903	1	Stud, male, $\frac{3}{8}$ " BSP x 12mm pipe (PORT T)
22	011153	1	Seal, Dowty, $\frac{3}{8}$ " BSP

Item	Part Number	Quantity	Description
Valve Block Assembly - Options			
1	*	1	Valve block Page 458
2	034982	2	. Valve, solenoid, S202N
3	036924	2	. . Coil, 24 V, C13DM24/14 UN-D
NI	034984	2	. Seal kit, SK1043
4	034985	2	. Valve, solenoid, S203N
5	036924	2	. Coil, 24 V, C13DM24/14 UN-D
NI	034984	2	. . Seal kit, SK1043
6	035242	1	. Plug, $\frac{3}{8}$ " BSP (PORT Q1B)
7	020903	1	. Stud, male, $\frac{3}{8}$ " BSP x 12mm pipe (PORT Q1A)
8	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
9	020903	1	. Stud, male, $\frac{3}{8}$ " BSP x 12mm pipe (PORT RH2)
10	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
11	020903	1	. Stud, male, $\frac{3}{8}$ " BSP x 12mm pipe (PORT WS2)
12	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
13	020903	1	. Stud, male, $\frac{3}{8}$ " BSP x 12mm pipe (PORT RH1)
14	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
15	020903	1	. Stud, male, $\frac{3}{8}$ " BSP x 12mm pipe (PORT WS1)
16	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
17	020903	1	. Plug, $\frac{3}{8}$ " BSP (PORT LH1)
18	020903	1	. Plug, $\frac{3}{8}$ " BSP (PORT LH2)
19	020903	1	. Stud, male, $\frac{3}{8}$ " BSP x 12mm pipe (PORT T)
20	011153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP

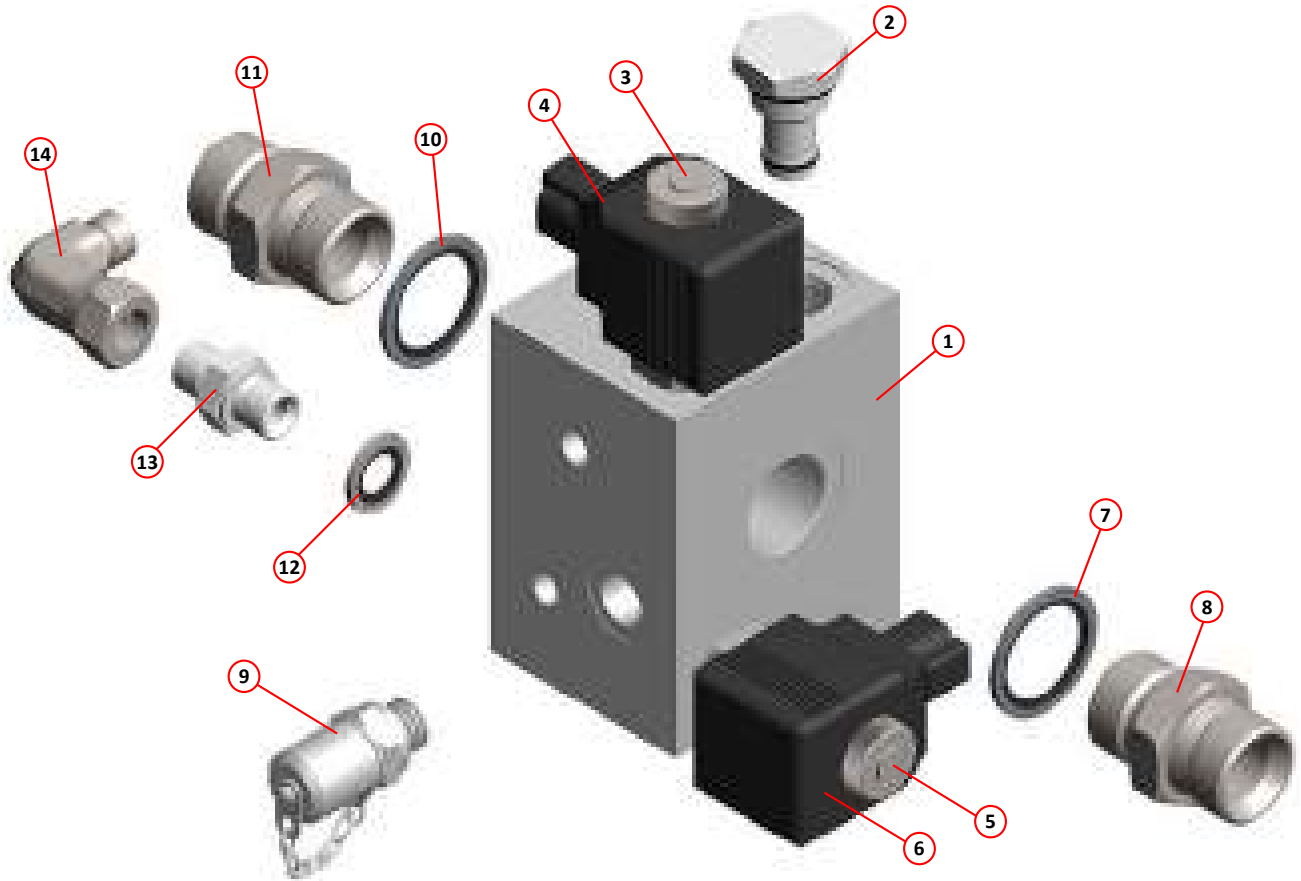
Notes:-

* Please contact the Scarab Parts Department if you require to order these items.

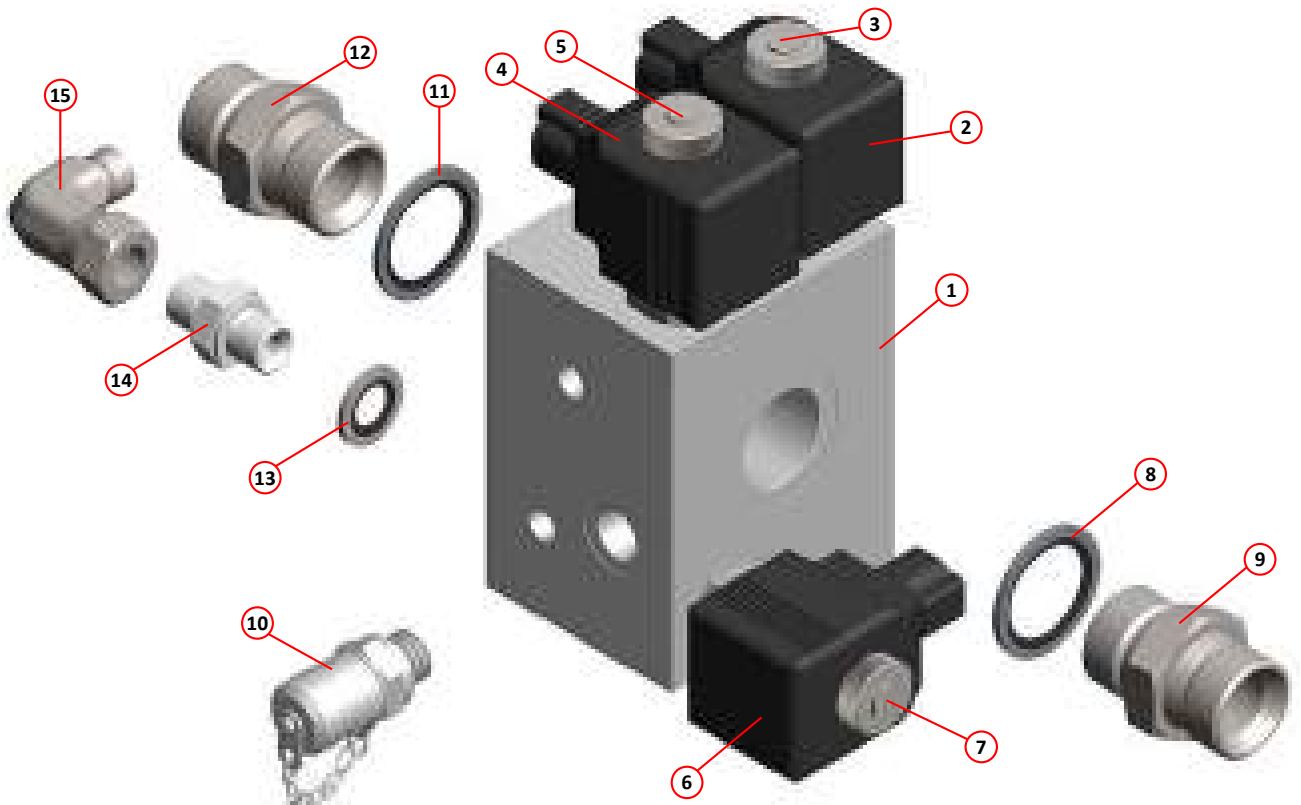


Item	Part Number	Quantity	Description
Valve Block Assembly - Two Speed Suction Fan Boost			
1	036972	1	Valve Block. MR45183 (complete with items, 2,3,4,5,6)
2	035948	1	Plug
3	034982	1	Valve, solenoid, S202N
4	036924	1	Coil, 24 V, C13DM24/14 UN-D
NI	034984	1	Seal kit, SK1043
5	034982	1	Valve, solenoid, S202N
6	036924	1	Coil, 24 V, C13DM24/14 UN-D
NI	034984	1	Seal kit, SK1043
7	011155	1	Seal, Dowty, $\frac{3}{4}$ " BSP
8	011161	1	Adaptor, M/M, $\frac{3}{4}$ " BSP
9	013036	1	Test point, $\frac{1}{4}$ " BSP
10	011155	1	Seal, Dowty, $\frac{3}{4}$ " BSP
11	011161	1	Adaptor, M/M, $\frac{3}{4}$ " BSP
12	011152	1	Seal, Dowty, $\frac{1}{4}$ "
13	011158	1	Adaptor, M/M, $\frac{1}{4}$ " BSP
14	011171	1	Elbow, swivel, M/F, $\frac{1}{4}$ " BSP

Item	Part Number	Quantity	Description
Valve Block Assembly - Three Speed Suction Fan Boost			
1	036974	1	Valve Block. MR45183 (complete with items, 2,3,4,5,6,7)
2	034982	1	Valve, solenoid, S202N
3	036924	1	Coil, 24 V, C13DM24/14 UN-D
NI	034984	1	Seal kit, SK1043
4	034982	1	Valve, solenoid, S202N
5	036924	1	Coil, 24 V, C13DM24/14 UN-D
NI	034984	1	Seal kit, SK1043
6	034982	1	Valve, solenoid, S202N
7	036924	1	Coil, 24 V, C13DM24/14 UN-D
NI	034984	1	Seal kit, SK1043
8	011155	1	Seal, Dowty, $\frac{3}{4}$ " BSP
9	011161	1	Adaptor, M/M, $\frac{3}{4}$ " BSP
10	013036	1	Test point, $\frac{1}{4}$ " BSP
11	011155	1	Seal, Dowty, $\frac{3}{4}$ " BSP
12	011161	1	Adaptor, M/M, $\frac{3}{4}$ " BSP
13	011152	1	Seal, Dowty, $\frac{1}{4}$ " BSP
14	011158	1	Adaptor, M/M, $\frac{1}{4}$ " BSP
15	011171	1	Elbow, swivel, M/F, $\frac{1}{4}$ " BSP



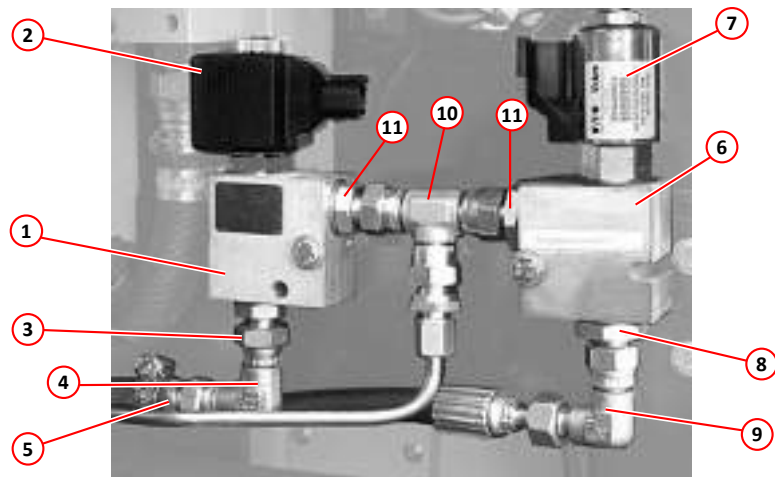
Valve Block - 2 Speed Suction Fan Boost



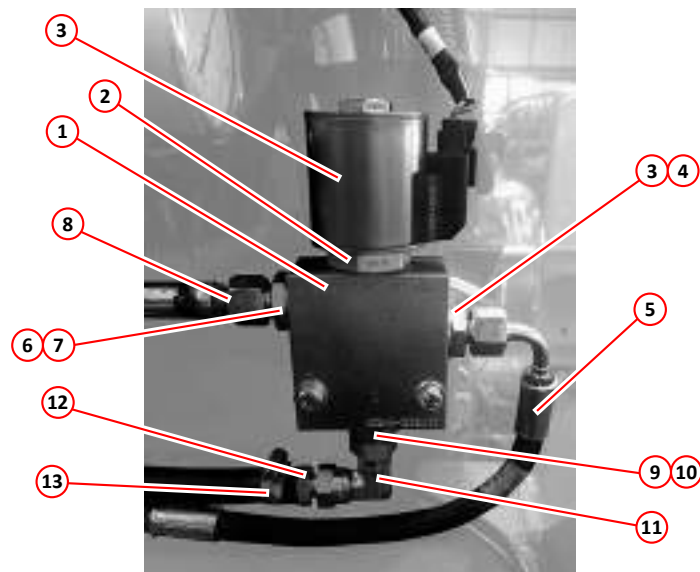
Valve Block - 3 Speed Suction Fan Boost

Item	Part Number	Quantity	Description
Valve Block Assembly - Variable Tilt Suction Nozzle			
1	037461	1	Valve block, solenoid, N/C
NI	034982	1	. Valve spool, solenoid
2	036924	1	. . Coil, 24V
3	011158	1	. . Adaptor, M/M, $\frac{1}{4}$ " BSP
NI	011150	3	. . . Seal, Dowty, $\frac{1}{4}$ " BSP
4	011169	1	. . . Elbow, swivel, F/F, $\frac{1}{4}$ " BSP
5	010922	1	. . . Hose tail, $\frac{1}{4}$ " BSP x $\frac{3}{8}$ " hose
6	037464	1	Valve block, solenoid
NI	037670	1	. Valve spool, solenoid
7	037680	1	. . Coil, 24 Volt
8	011199	1	. . Adaptor, $\frac{3}{8}$ " BSP x $\frac{1}{4}$ " BSP
NI	011153	1	. . . Seal, Dowty, $\frac{3}{8}$ " BSP
9	011171	1	. . . Elbow, swivel, M/F, $\frac{1}{4}$ " BSP
10	002005	1	Tee, swivel, F/F/F, $\frac{1}{4}$ " BSP
11	011158	1	. Adaptor, M/M, $\frac{1}{4}$ " BSP
NI	036917	2	Loom

Item	Part Number	Quantity	Description
Valve Block Assembly - Standard Tilt Suction Nozzle			
1	041953	1	Valve block, with solenoid N/C and coil
2	044499	1	Valve spool, solenoid
3	044048	1	Coil, 24V
3	011199	1	Adaptor, M/M, $\frac{3}{8}$ " BSP x $\frac{1}{4}$ " BSP
4	011153	1	Seal, Dowty, $\frac{3}{8}$ " BSP
5	001103	1	Hose, $\frac{1}{4}$ " x 265, $\frac{1}{4}$ " BSP straight and 90° ends
6	011199	1	Adaptor, M/M, $\frac{3}{8}$ " BSP x $\frac{1}{4}$ " BSP
7	011153	1	Seal, Dowty, $\frac{3}{8}$ " BSP
8	011326	1	Hose, $\frac{1}{4}$ " x 2440, $\frac{1}{4}$ " BSP straight ends
9	011199	1	Adaptor, M/M, $\frac{3}{8}$ " BSP x $\frac{1}{4}$ " BSP
10	011153	1	Seal, Dowty, $\frac{3}{8}$ " BSP
11	011169	1	Elbow, swivel, F/F, $\frac{1}{4}$ " BSP
12	011171	1	Adapter, $\frac{1}{4}$ " BSP x $\frac{3}{8}$ " hose tail
13	003004	1	Clamp, worm drive, size 00 (13-20mm)

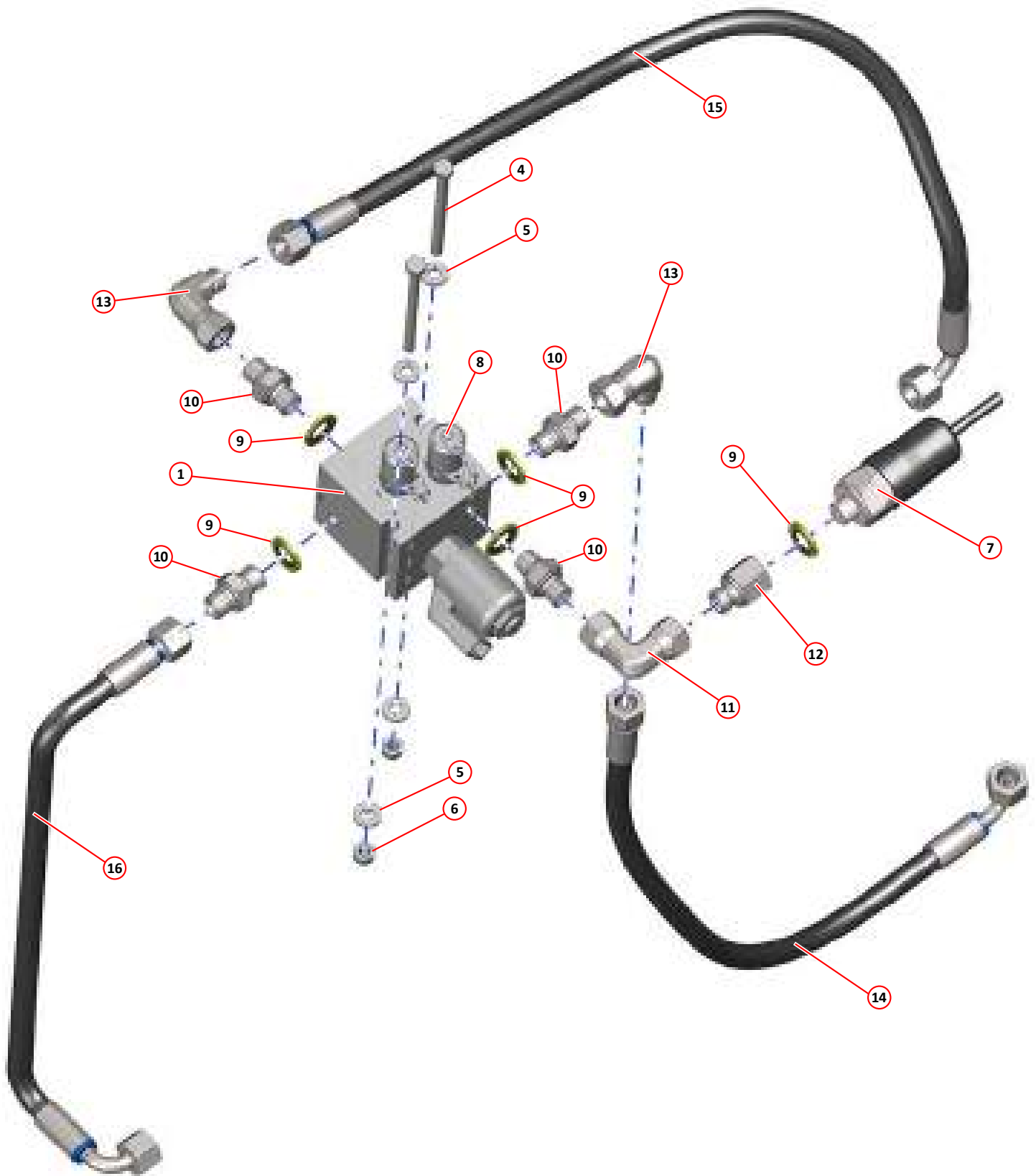


Valve Block - Variable Tilt Suction Nozzle



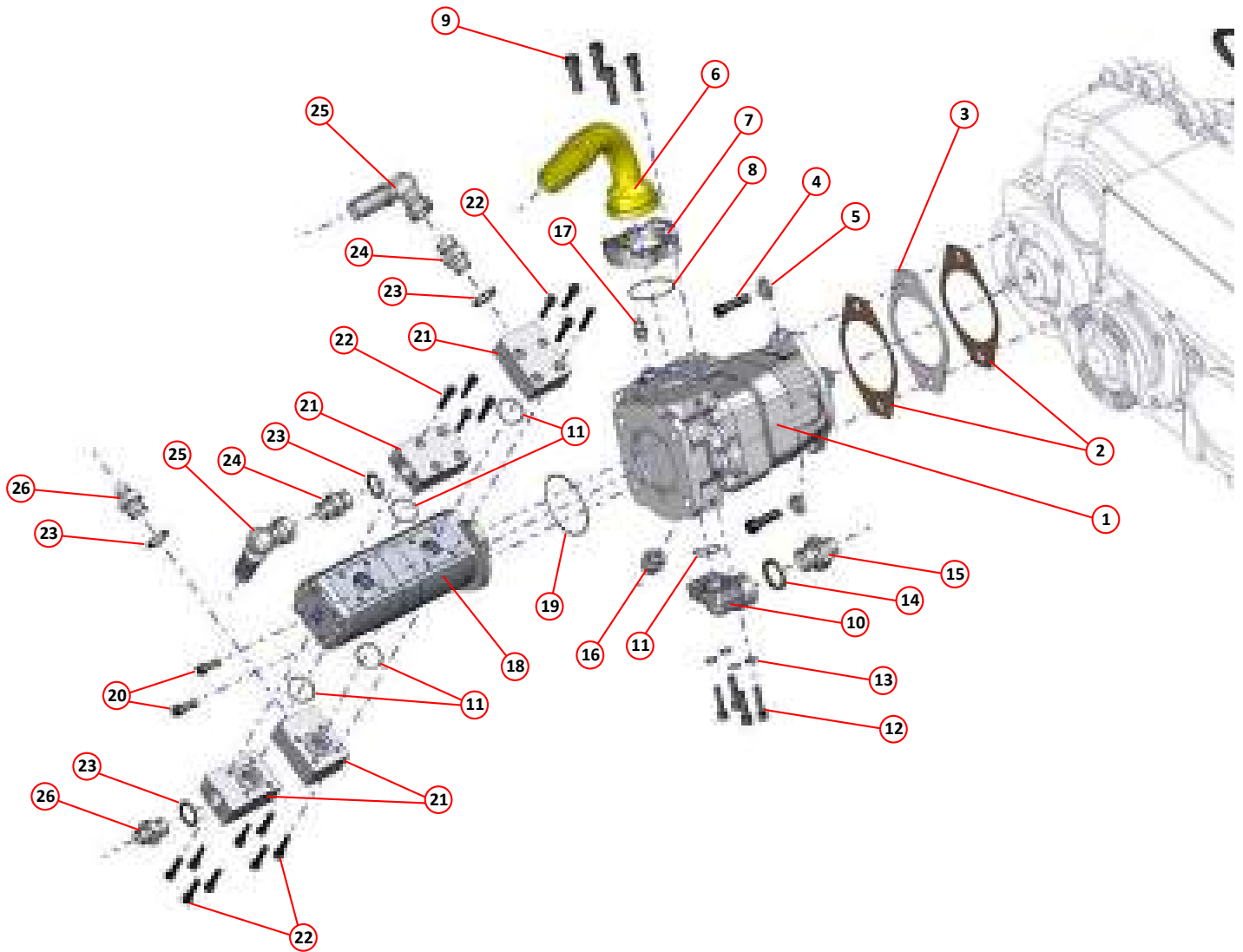
Valve Block - Standard Tilt Suction Nozzle

Item	Part Number	Quantity	Description
Valve Block Assembly - Transmission			
1	036905	1	Valve block (includes items 2, 3, solenoid valve and coil)
2	037679	1	Valve, SV11-8-3-0-00, (Port CT1)
3	037680	1	Coil 24V
4	000221	2	Bolt M6 x 80
5	011090	4	Plain washer M6
6	011071	2	Nut, M6 Nyloc
7	036872	1	Pressure switch, (Port P5) Page 556
8	013036	2	Test point $\frac{1}{4}$ " BSP, (Ports B1,2)
9	011152	5	Dowty seal, $\frac{1}{4}$ " BSP
10	011158	4	Adaptor, M/M, $\frac{3}{8}$ " x $\frac{1}{4}$ " BSP (Ports 1A,3A,3B, P5)
11	011169	1	Elbow, swivel, F/F, $\frac{1}{4}$ " BSP
12	002014	1	Adapter, fixed, M/F, $\frac{1}{4}$ " BSP
13	011171	2	Elbow, swivel, M/F, $\frac{1}{4}$ " BSP
14	001100	1	Hose, $\frac{1}{4}$ " x 460, ST/90
15	001251	1	Hose, $\frac{1}{4}$ " x 600, ST/90
16	001286	1	Hose, $\frac{1}{4}$ " x 500, ST/90

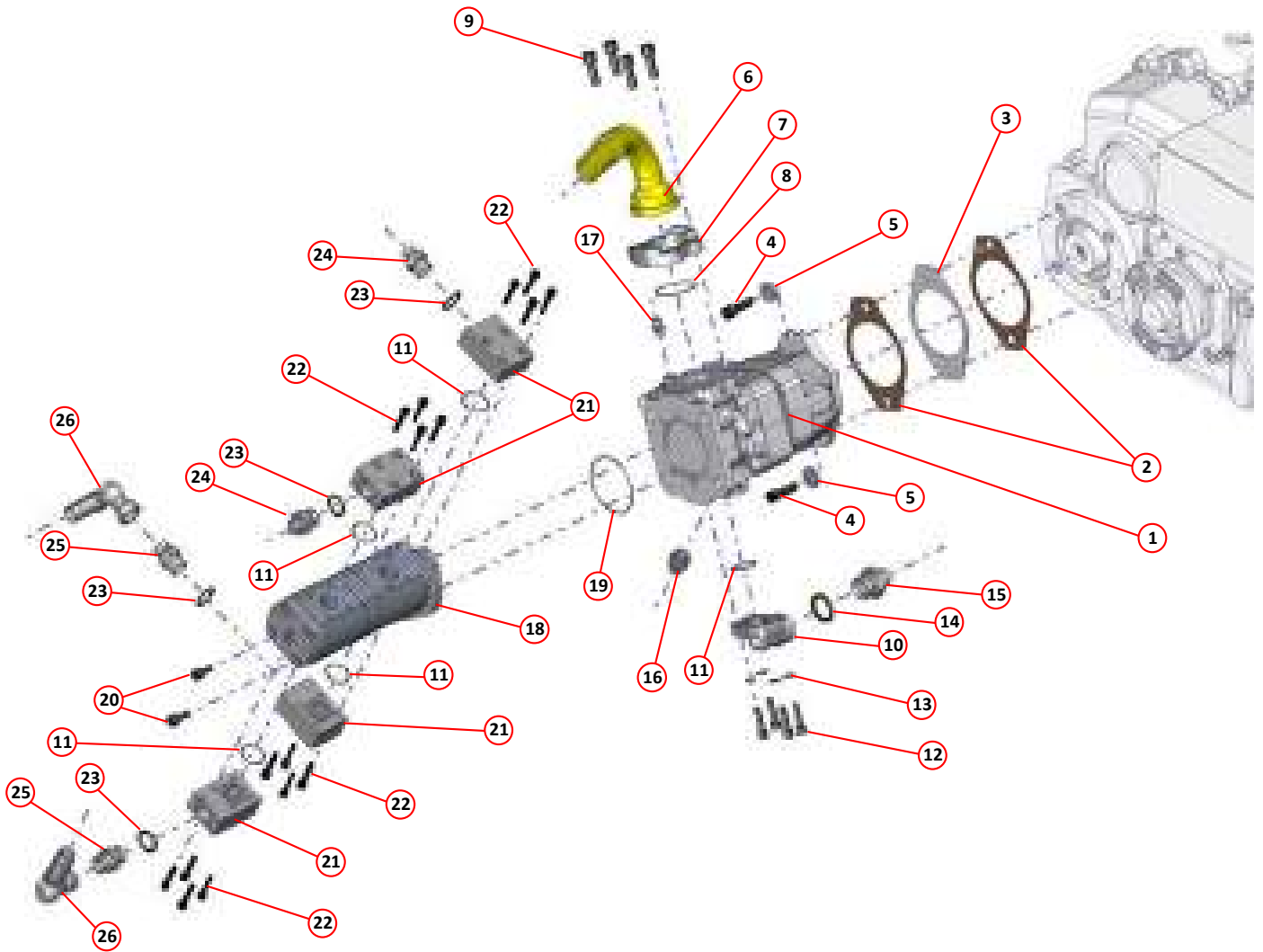


Valve Block - Transmission

Item	Part Number	Quantity	Description
Fan Pump 60cc and Gear Pumps 23cc/23cc, Rögelberg			
1	035885	1	Fan pump, HP A10V060, reverse rotation
2	025804	2	Gasket, cork, fan pump
3	038984	1	Shim, fan pump
4	011412	2	Socket cap screw, M12 x 40
5	039036	2	Spacer, 13.1 x 28 x $\frac{1}{4}$
6	002262	1	Elbow, 2" SAE to 1 $\frac{1}{2}$ " hose
7	002263	1	Flange, 2" SAE, split kit, 3000 PSI
8	002264	5	O-ring, 2" SAE
9	011108	4	Socket cap screw, $\frac{1}{2}$ " UNC x 1 $\frac{1}{2}$ "
10	014104	1	Flange elbow, 1" SAE standard pressure to 1" BSP
11	013517	5	O-ring, 1" SAE BS 219, nitrile 90 shore
12	000045	4	Socket cap screw, $\frac{3}{8}$ " UNC x 1 $\frac{1}{2}$ "
13	011406	4	Spring washer, $\frac{3}{8}$ " high pressure
14	011156	1	Seal, dowty, 1" BSP
15	011193	1	Adapter, 1 $\frac{1}{4}$ " x $\frac{3}{4}$ " BSP
16	011226	1	Adapter, $\frac{8}{16}$ " SAE x $\frac{1}{2}$ " BSP, complete with O-ring
17	011227	1	Adapter, $\frac{7}{16}$ " SAE x $\frac{1}{4}$ " BSP, complete with O-ring
18	044619	1	Gear pump, 23CC LH double, reverse rotation
19	022294	1	O-ring, gear pump
20	011028	2	Socket cap screw, M10 x 25
21	026335	4	Adapter block, gear pump
22	000096	16	Socket cap screw, M8 x 40
23	011155	4	Seal, dowty, $\frac{3}{4}$ " BSP
24	011161	2	Adapter, $\frac{3}{4}$ " BSP x $\frac{3}{4}$ " BSP
25	002203	2	Elbow, $\frac{3}{4}$ " BSP to 1" hose
26	011166	2	Adapter, $\frac{3}{4}$ " BSP x $\frac{1}{2}$ " BSP

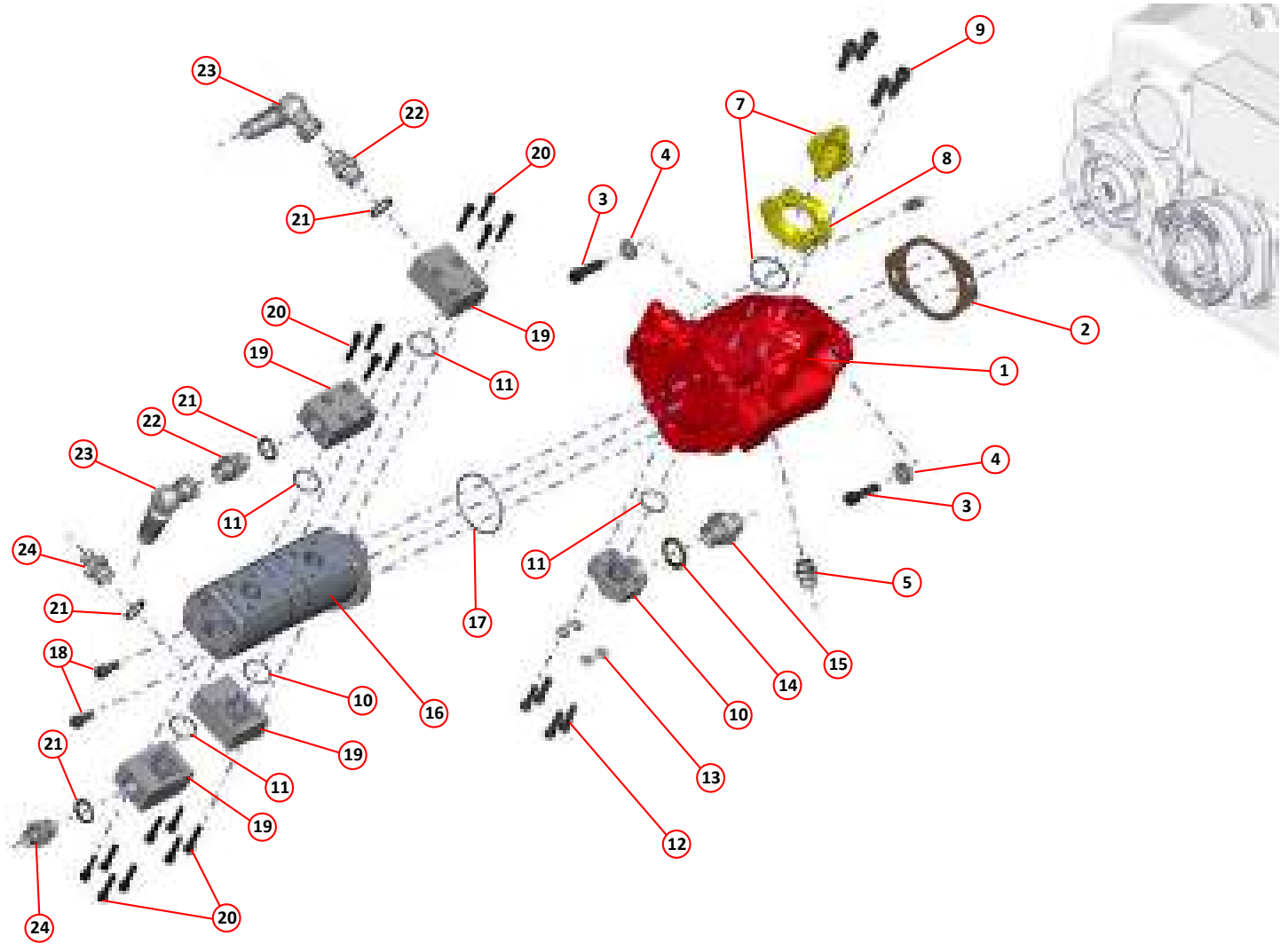


Item	Part Number	Quantity	Description
Fan Pump 60cc and Gear Pumps 23cc/27cc, Rögelberg			
1	035885	1	Fan pump, HP A10V060, reverse rotation
2	025804	2	Gasket, cork, fan pump
3	038984	1	Shim, fan pump
4	011412	2	Socket cap screw, M12 x 40
5	039036	2	Spacer, 13.1 x 28 x $\frac{1}{4}$
6	002262	1	Elbow, 2" SAE to 1 $\frac{1}{2}$ " hose
7	002263	1	Flange, 2" SAE, split kit, 3000 PSI
8	002264	5	O-ring, 2" SAE
9	011108	4	Socket cap screw, $\frac{1}{2}$ " UNC x 1 $\frac{1}{2}$ "
10	014104	1	Flange elbow, 1" SAE standard pressure to 1" BSP
11	013517	5	O-ring, 1" SAE BS 219, nitrile 90 shore
12	000045	4	Socket cap screw, $\frac{3}{8}$ " UNC x 1 $\frac{1}{2}$ "
13	011406	4	Spring washer, $\frac{3}{8}$ " high pressure
14	011156	1	Seal, dowty, 1" BSP
15	011193	1	Adapter, 1 $\frac{1}{4}$ " x $\frac{3}{4}$ " BSP
16	011226	1	Adapter, $\frac{8}{16}$ " SAE x $\frac{1}{2}$ " BSP, complete with O-ring
17	011227	1	Adapter, $\frac{7}{16}$ " SAE x $\frac{1}{4}$ " BSP, complete with O-ring
18	035860	1	Gear pump, 23cc /27cc LH double, reverse rotation
19	022294	1	O-ring, gear pump
20	011028	2	Socket cap screw, M10 x 25
21	026335	4	Adapter block, gear pump
22	000096	16	Socket cap screw, M8 x 40
23	011155	4	Seal, dowty, $\frac{3}{4}$ " BSP
24	011166	2	Adapter, $\frac{3}{4}$ " BSP x $\frac{1}{2}$ " BSP
25	011161	2	Adapter, $\frac{3}{4}$ " BSP x $\frac{3}{4}$ " BSP
26	002203	2	Elbow, $\frac{3}{4}$ " BSPP to 1" hose



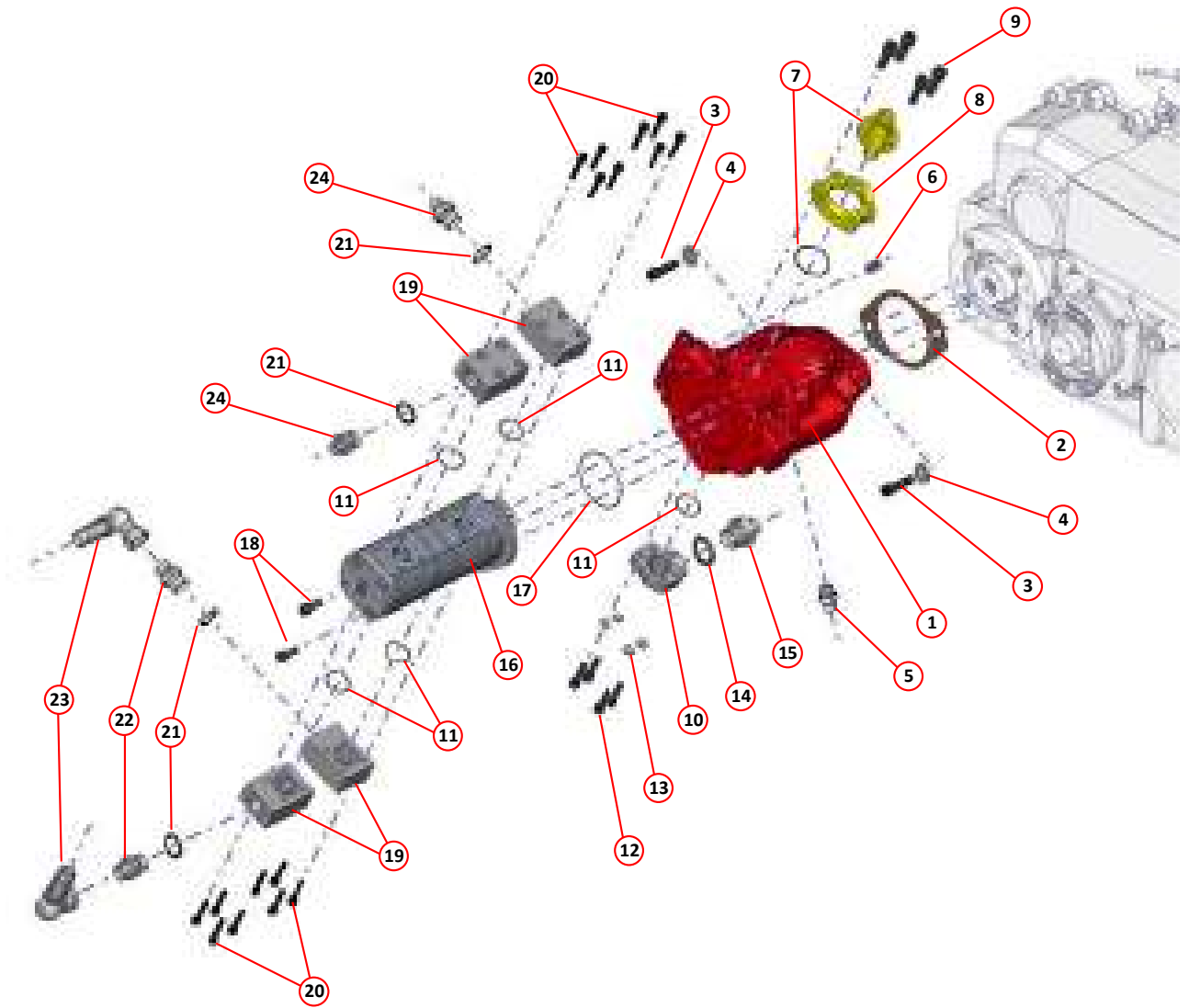
Fan Pump 60cc and Gear Pumps 23cc/27cc Arrangement
Rögelberg

Item	Part Number	Quantity	Description
Fan Pump 45cc and Gear Pumps 23cc/23cc, Rögelberg			
1	045423	1	Fan pump, HP A10V045, reverse rotation
2	025804	1	Gasket, cork, fan pump
3	011412	2	Socket cap screw, M12 x 40
4	039036	2	Spacer, 13,1 x 28 x 4
5	011226	1	Adapter, $\frac{7}{8}$ " SAE x $\frac{1}{2}$ " BSP, complete with O-ring
6	011227	1	Adapter, $\frac{7}{16}$ " SAE x $\frac{1}{4}$ " BSP, complete with O-ring
7	011231	1	Elbow, $1\frac{1}{2}$ " SAE to 1" hose, complete with O-ring
8	011230	1	Flange, $1\frac{1}{2}$ " SAE, pair, standard pressure
9	011108	4	Socket cap screw, $\frac{1}{2}$ " UNC x $1\frac{1}{2}$ "
10	014104	1	Flange elbow, 1" SAE standard pressure to 1" BSP
11	013517	5	O-ring, 1" SAE BS 219, nitrile 90 shore
12	000045	4	Socket cap screw, $\frac{3}{8}$ " UNC x $1\frac{1}{2}$ "
13	011406	4	Spring washer, $\frac{3}{8}$ " high pressure
14	011156	1	Seal, dowty, $1\frac{3}{4}$ " BSP
15	011193	1	Adapter, 1" x $\frac{3}{4}$ " BSP
16	044619	1	Gear pump, 23cc /23cc LH double, reverse rotation
17	022294	1	O-ring, gear pump
18	011028	2	Socket cap screw, M10 x 25
19	026335	4	Adapter block, gear pump
20	000096	16	Socket cap screw, M8 x 40
21	011155	4	Seal, dowty, $\frac{3}{4}$ " BSP
22	011161	2	Adapter, $\frac{3}{4}$ " BSP x $\frac{3}{4}$ " BSP
23	002203	2	Elbow, $\frac{3}{4}$ " BSP to 1" hose
24	011166	2	Adapter, $\frac{3}{4}$ " BSP x $\frac{1}{2}$ " BSP



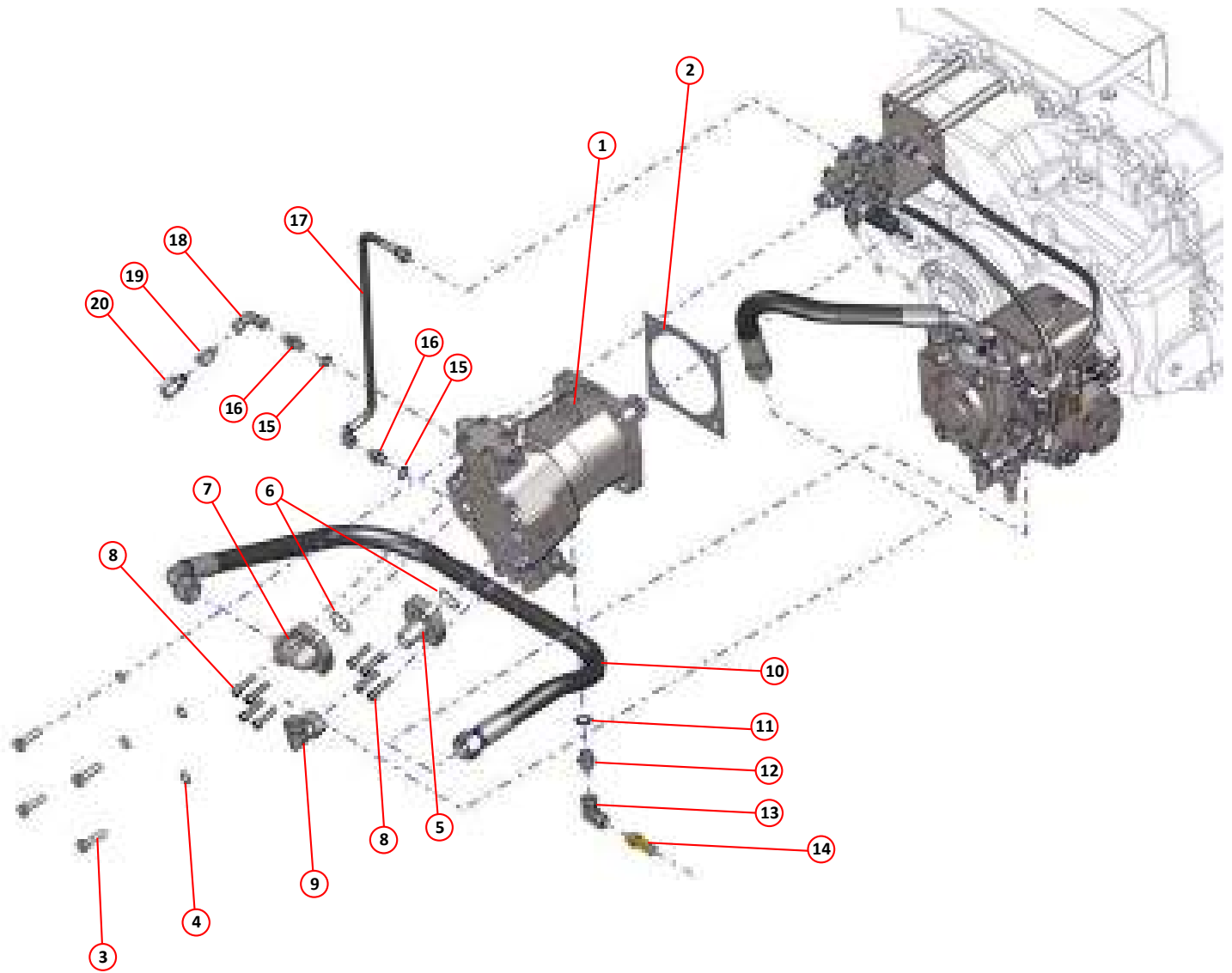
Fan Pump 45cc and Gear Pumps 23cc/23cc Arrangement
Rögelberg

Item	Part Number	Quantity	Description
Fan Pump 45cc and Gear Pumps 23cc/27cc, Rögelberg			
1	045423	1	Fan pump, HP A10V045, reverse rotation
2	025804	1	Gasket, cork, fan pump
3	011412	2	Socket cap screw, M12 x 40
4	039036	2	Spacer, 13,1 x 28 x 4
5	011226	1	Adapter, $\frac{7}{8}$ " SAE x $\frac{1}{2}$ " BSP, complete with O-ring
6	011227	1	Adapter, $\frac{7}{16}$ " SAE x $\frac{1}{4}$ " BSP, complete with O-ring
7	011231	1	Elbow, $1\frac{1}{2}$ " SAE to 1" hose, complete with O-ring
8	011230	1	Flange, $1\frac{1}{2}$ " SAE, pair, standard pressure
9	011108	4	Socket cap screw, $\frac{1}{2}$ " UNC x $1\frac{1}{2}$ "
10	014104	1	Flange elbow, 1" SAE standard pressure to 1" BSP
11	013517	5	O-ring, 1" SAE BS 219, nitrile 90 shore
12	000045	4	Socket cap screw, $\frac{3}{8}$ " UNC x $1\frac{1}{2}$ "
13	011406	4	Spring washer, $\frac{3}{8}$ " high pressure
14	011156	1	Seal, dowty, 1" BSP
15	011193	1	Adapter, 1" x $\frac{3}{4}$ " BSP
16	035860	1	Gear pump, 23cc /27cc LH double, reverse rotation
17	022294	1	O-ring, gear pump
18	011028	2	Socket cap screw, M10 x 25
19	026335	4	Adapter block, gear pump
20	000096	16	Socket cap screw, M8 x 40
21	011155	4	Seal, dowty, $\frac{3}{4}$ " BSP
22	011161	2	Adapter, $\frac{3}{4}$ " BSP x $\frac{3}{4}$ " BSP
23	002203	2	Elbow, $\frac{3}{4}$ " BSP to 1" hose
24	011166	2	Adapter, $\frac{3}{4}$ " BSP x $\frac{1}{2}$ " BSP



Fan Pump 45cc and Gear Pumps 23cc/27cc Arrangement
Rögelberg

Item	Part Number	Quantity	Description
Transmission Motor, Rögelberg			
1	040705	1	Motor, transmission, A6VM80, preset
2	021414	1	Gasket
3	011069	4	Bolt, M12 x 40
4	011097	4	Spring washer, M12
5	031482	1	Flange, 1" 6000 SAE. includes O-ring
6	013517	2	O-ring, 1" SAE BS 219, nitrile 90 shore
7	030932	1	Flange elbow, 1" SAE x 1" BSP, standard pressure
8	011029	8	Socket cap screw, M10 x35
9	030933	1	20S adjustable elbow
10	031479	1	Hose, bottom, hydrostatic transmission, 420 bar
11	011247	1	Seal, Dowty, M18
12	011248	1	Adapter, M18 x $\frac{3}{8}$ " BSP
13	011205	1	Elbow, swivel. female/female, $\frac{3}{8}$ " BSP
14	010930	1	Adapter, $\frac{3}{8}$ " BSP x $\frac{5}{8}$ " hose tail
15	011216	2	Seal, Dowty, M14
16	012474	2	Adapter, M14 x $\frac{1}{4}$ " BSP
17	001286	1	Hose, $\frac{1}{4}$ " BSP x 500 (straight/90°)
18	011169	1	Elbow, swivel, female/female, $\frac{1}{4}$ " BSP
19	002104	1	Adapter, fixed, male/female, $\frac{1}{4}$ " BSP
20	013036	1	Test point, $\frac{1}{4}$ " BSP



Item	Part Number	Quantity	Description
Transmission Pump, Rögelberg			
1	044620	1	Pump, transmission, A4VG56 24V RH rotation
2	000030	2	Socket cap head screw, M16 x 45
3	022695	2	Washer, 16.5 x 31.7 x 6
4	045966	1	Hose, top, hydrostatic transmission, 420 bar, complete with O-ring
5	013523	2	O-ring 25 O/D x ø3.5 section
6	002000	1	Flange $\frac{3}{4}$ " SAE, split kit, 6000 PSI
7	011029	7	Socket cap head screw, M10 x35
8	011033	1	Set screw, M10 x35
9	011095	1	Spring washer, M10
10	031483	1	Flange, $\frac{3}{4}$ " SAE, 6000 PSI
11	030933	1	20S adjustable elbow
12	031479	1	Hose, bottom, hydrostatic transmission, 420 bar
13	022706	1	Adapter, M33 x $\frac{3}{4}$ " BSP
14	01156	1	Seal, Dowty, 1" BSP
15	011216	1	Seal, Dowty, M14
16	012474	1	Adapter, M14 x $\frac{1}{4}$ " BSP
17	011169	1	Elbow, swivel, female/female, $\frac{1}{4}$ " BSP
18	002104	1	Adapter, fixed, male/female, $\frac{1}{4}$ " BSP
19	013036	1	Test point, $\frac{1}{4}$ " BSP
20	011215	2	Seal, Dowty, M12
21	011935	1	Adapter, M12 x $\frac{1}{4}$ " BSP
22	001286	2	Hose, $\frac{1}{4}$ " BSP x 500 (straight/90°)
23	025041	1	Restrictor, No. 13, M12 x $\frac{1}{4}$ " BSP x $\frac{1}{32}$ "
24	011218	1	Seal, dowty, M18
25	012472	1	Adapter, M22 x $\frac{3}{8}$ " BSP
26	011205	1	Elbow, swivel, female/female, $\frac{3}{8}$ " BSP
27	010930	1	Adapter, $\frac{3}{8}$ " BSP x $\frac{5}{8}$ " hose tail

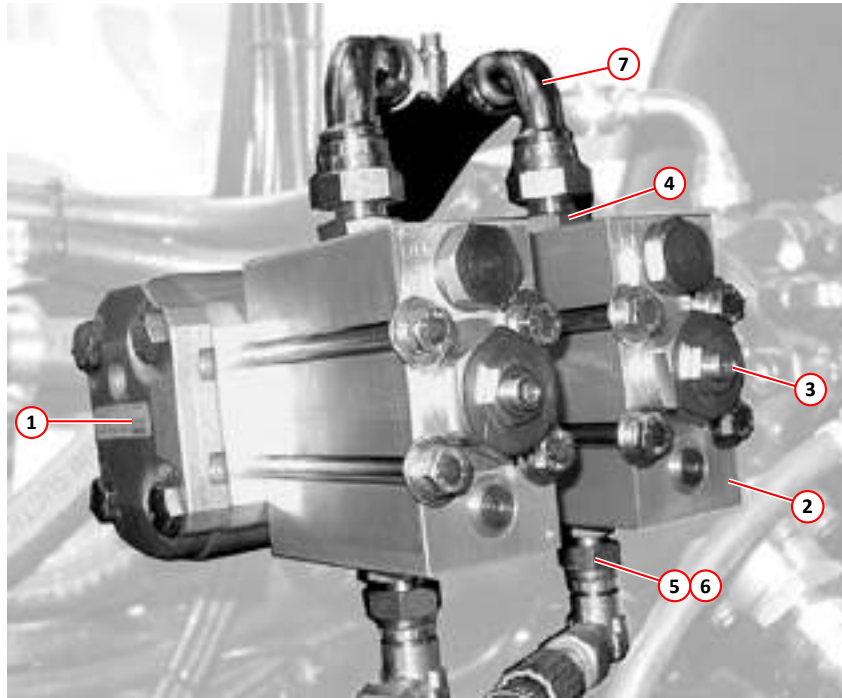


Item	Part Number	Quantity	Description
Gear Pump Arrangements			
1	024590	1	Double gear pump - complete assembly
NI	024592	1	. Gear pump 23cc (double)
NI	027865 *	1	. Gear pump 27cc/23cc, double
NI	030629	1	. . Seal kit, gear pump 23cc, double
NI	024589	1	Single gear pump - complete assembly
NI	024593	1	. Gear pump 23cc (single)
NI	028496 *	1	. Gear pump 27cc, single
NI	030628	1	. . Seal kit, gear pump 23cc, single
2	024537 †	1	. Valve, flow control
	000227	4	. . Bolt, M8 x 110mm
	000056	4	. . Bolt, M8 x 120mm
	011093	4	. . Spring washer, M8
NI	002127	1	. . O-Ring kit for 024537
3	031531	1	. . Valve, pressure relief
4	011160	2	. . Adaptor, M/M _{1/2} " BSP
NI	011154	1	. . . Seal, Dowty $\frac{1}{2}$ " BSP
5	011160	2	. . Adaptor, M/M _{1/2} " BSP
NI	011154	1	. . . Seal, Dowty $\frac{1}{2}$ " BSP
6	011172	2	. . Elbow, Swivel, M/F, $\frac{3}{8}$ " BSP
7	011234	2	. . Hose tail, swept 90° $\frac{3}{8}$ " BSP x $\frac{5}{8}$ " hose
NI	024591	2	Hose tail 1" BSP
NI	013518	2	O-Ring 31 ID x 3.5
NI	011012	8	Bolt, M8 x 30mm
NI	030132 †	1	Remote flow regulator kit (single)
NI	030133 †	1	Remote flow regulator kit (double)

Notes:-

* Used when a 75lpm high pressure water pump is fitted.

† On some chassis the flow control is remotely mounted. Not the same as described on Page 498.



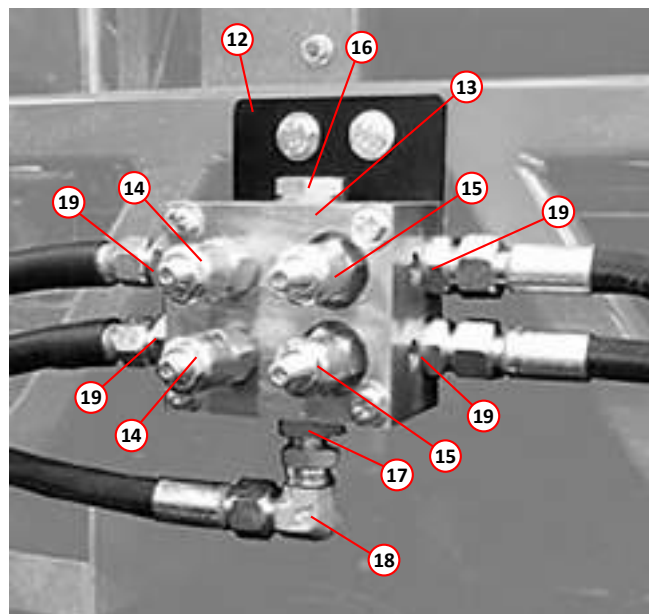
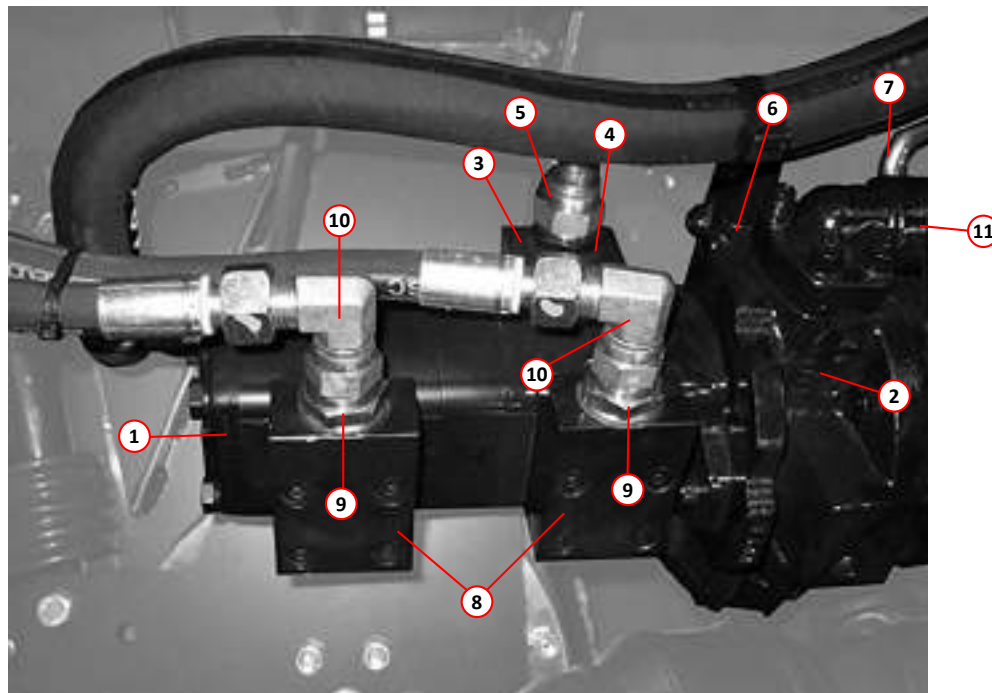
Gear Pump Arrangement
(Double Gear Pump Shown)

Item	Part Number	Quantity	Description
Gear Pump Arrangements with Remote Mounted Flow Control			
1	024590	1	Double gear pump - complete assembly (shown)
	031970	1	. Gear pump 23cc/23cc, double
NI	027865 *	1	. Gear pump 27cc/23cc, double
NI	030629	1	. . Seal kit, gear pump 23cc, double
1	024589	1	Single gear pump - complete assembly
NI	031971	1	Gear pump 23cc, single
NI	028496 *	1	Gear pump 27cc, single
NI	030628	1	. Seal kit, gear pump 23cc, single
2	023620	1	Pump, suction fan, A10V045 Page 506
3	026335 †	AR	Adaptor block
NI	013517	AR	. Seal, O-Ring
	000096	AR	. . Screw, cap head, M8 x 40mm
4	011151	AR	. Adaptor, M/M, $\frac{3}{4}$ " BSP
NI	011155	AR	. . Seal, Dowty, $\frac{3}{4}$ " BSP
5	002079	AR	. . Elbow, $\frac{3}{4}$ " BSP x 1" hose
6	014217	1	DFR valve
7	011234	1	Elbow, $\frac{1}{2}$ " BSP x $\frac{5}{8}$ " hose
NI	011160	1	. Adaptor, M/M, $\frac{1}{2}$ " BSP
NI	011154	AR	. . Seal, Dowty, $\frac{1}{2}$ " BSP
NI	010518	1	. . Clamp, worm drive, $\varnothing$ 18mm-25mm
8	026335 †	AR	Adaptor block
NI	013517	AR	. Seal, O-Ring
	000096	AR	. . Screw, cap head, M8 x 40mm
9	011166	AR	. Adaptor, M/M, $\frac{3}{4}$ " BSP x $\frac{1}{2}$ " BSP
NI	011155	AR	. . Seal, Dowty, $\frac{3}{4}$ " BSP
10	011173	AR	. . . Elbow, M/F, $\frac{1}{2}$ " BSP
11	011196	1	Elbow, M/F, $\frac{3}{4}$ " BSP
12	039953	1	Mounting bracket
	011038	2	. Set screw, M10 x 80mm
	011094	4	. . Washer, M10
	011075	2	. . . Nut, M10, Nyloc
NI	038512	1	. Flow control block (single), includes flow regulator and relief valve
13	038513	1	. Flow control block (double), includes flow regulators and relief valves
NI	039061	2	. . Plug, hollow, $\frac{1}{4}$ " SAE
	011020	4	. . Bolt, M8 x 100mm
	011092	8	. . . Washer, M8
	011073	4	 Nut, M8, Nyloc
14	040288	AR	. . Flow regulator
15	039063	AR	. . Relief valve
16	011244	1	. . Plug, $\frac{3}{4}$ " BSP
NI	011155	1	. . . Seal, Dowty, $\frac{3}{4}$ " BSP
17	011166	1	. . Adaptor, M/M, $\frac{3}{4}$ " BSP x $\frac{1}{2}$ " BSP
NI	011155	1	. . . Seal, Dowty, $\frac{3}{4}$ " BSP
18	011173	AR	 Elbow, M/F, $\frac{1}{2}$ " BSP
19	011160	AR	. . Adaptor, M/M, $\frac{1}{2}$ " BSP
NI	011154	AR	. . . Seal, Dowty, $\frac{1}{2}$ " BSP

Notes:-

* Used when a 75lpm high pressure water pump is fitted.

† Depending on chassis configuration these blocks could be rotated and different fittings attached.

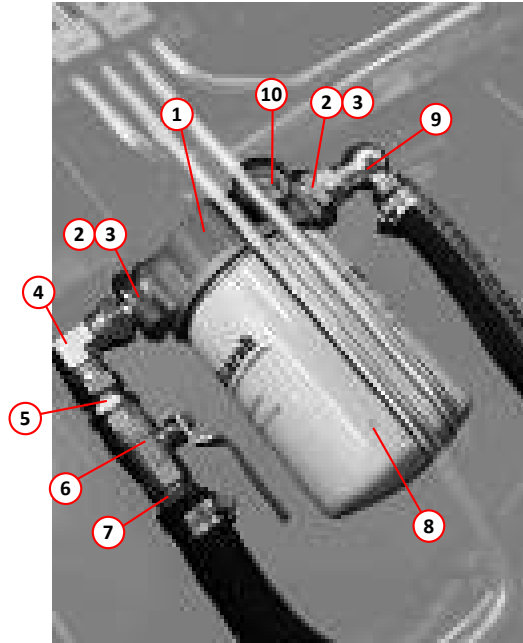


Remote Mounted Flow Control

Gear pump Arrangement with Remote Mounted Flow Control

Item	Part Number	Quantity	Description
Suction Filter Assembly			
1	013122	1	Filter, suction - complete with filter head
2	011184	2	. Adapter, M/M, $1\frac{1}{4}$ " x $\frac{3}{4}$ " BSP
3	011150	2	. . Seal, Dowty, $1\frac{1}{4}$ " BSP
4	011174	1	. . Elbow, swivel, F/F, $\frac{3}{4}$ " BSP
5	011161	1	. . Adapter, M/F, $\frac{3}{4}$ " BSP
6	013757	1	. . Valve, ball, $\frac{3}{4}$ " BSP
7	010931	1	. . Hose tail, $\frac{3}{4}$ " BSP x 1" hose
8	013124	1	. Element, suction filter Page 520
9	002203	2	. Elbow, swivel, hose tail, $\frac{3}{4}$ " BSP x 1" hose
10	021720	1	. Gauge
NI	026247	1	. Bracket, filter body
	011010	2	. . Set screw, M8 x 20mm
	011093	2	. . Spring washer, M8

Part Number	Quantity	Description
Hydraulic Service Kits - (Not Illustrated)		
030352	1	100 HOUR SERVICE KIT - HYDROSTATIC MACHINES
013124	1	. Filter, suction element
013125	2	. Filter, return element
030353	1	1800 HOUR SERVICE KIT - HYDROSTATIC MACHINES
013124	1	. Filter, suction element
013125	1	. Filter, return element
025104	1	. Filter, high-pressure
020687	1	. Filter, suction element
030357	1	100 HOUR SERVICE KIT - UNIDRIVE MACHINES
013125	1	. Filter, return element
005046	1	. Lubricant, 50ml bottle
020687	1	. Filter, suction element
030358	1	1800 HOUR SERVICE KIT - UNIDRIVE MACHINES
013125	1	. Filter, return element
025104	1	. Filter, high-pressure
020687	1	. Filter, suction element



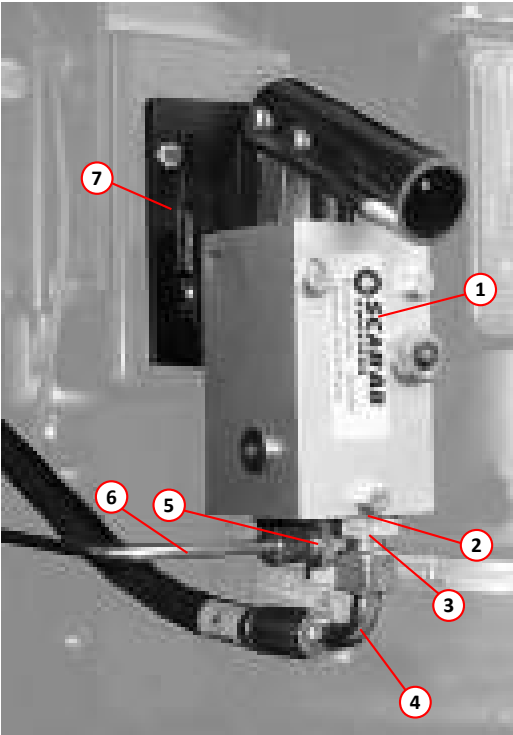
Suction Filter Assembly

Item	Part Number	Quantity	Description
Auxiliary Hand Pump			
1	023006	1	Hand pump
	011143	3	. Bolt, M6 x 70mm
	011071	3	. Nut, M6, Nyloc
NI	030103	1	. Handle
2	011153	3	. Seal, Dowty, $\frac{3}{8}$ " BSP
3	011199	1	. . Adaptor, M/M, $\frac{3}{8}$ " BSP x $\frac{1}{4}$ " BSP
4	001255	1	. . . Hose, rubber, $\frac{1}{4}$ " BSP x 475mm, straight+90° ends
5	002190	1	. Banjo, $\frac{3}{8}$ " BSP x 6mm pipe
6	025129	1	. . . Pipe, steel, 6mm (Magnum)
6	025194	1	. . . Pipe, steel, 6mm (Merlin)
7	038254	1	. Plate, pump mounting
	011001	3	. . Bolt, M6 x 16mm
	011071	3	. . . Nut, M6, Nyloc

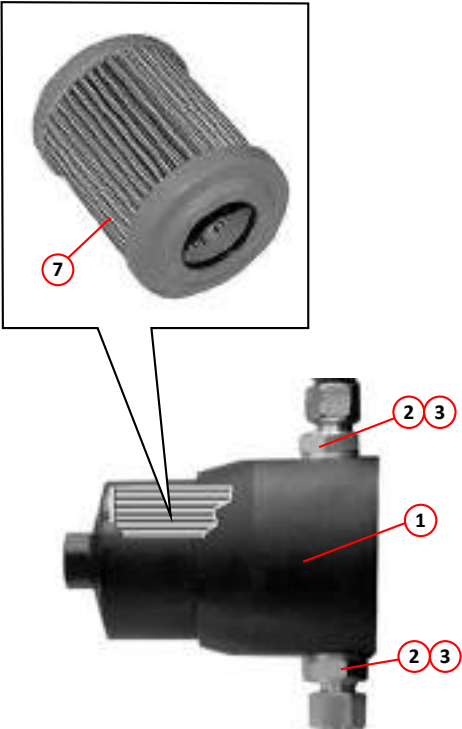
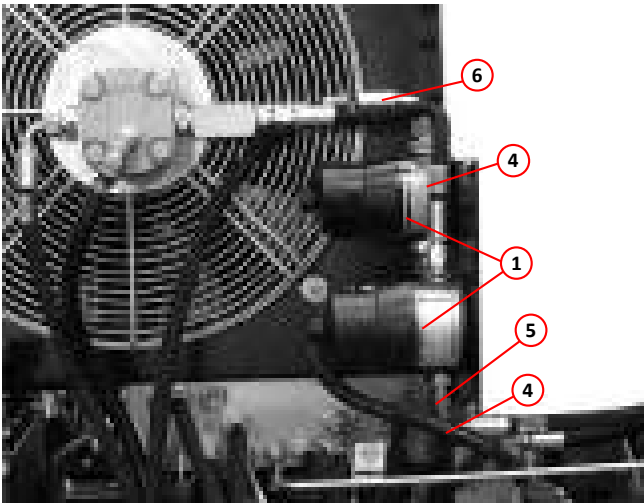
Item	Part Number	Quantity	Description
Filter(s), High Pressure - Components			
1	025103 *	2	. Filter, high pressure, with element
2	011167	4	. . Adaptor, M/M, $\frac{1}{2}$ " x $\frac{3}{8}$ " BSP
3	011154	4	. . . Seal, Dowty, $\frac{1}{2}$ " BSP
4	011310	1	. . . Hose, rubber, $\frac{3}{8}$ " BSP x 300mm, straight ends
5	001255	2	. . . Hose, rubber, $\frac{3}{8}$ " BSP x 475mm, straight+90° ends
6	001084	1	. . . Hose, rubber, $\frac{3}{8}$ " BSP x 2300mm, straight+90° ends
7	025104	2	. . Element, filter

Notes:-

- * May not have a second filter and its fittings, which is attached to the brush and LP water valve block, then item 6 connects direct into the brush and LP water valve block.



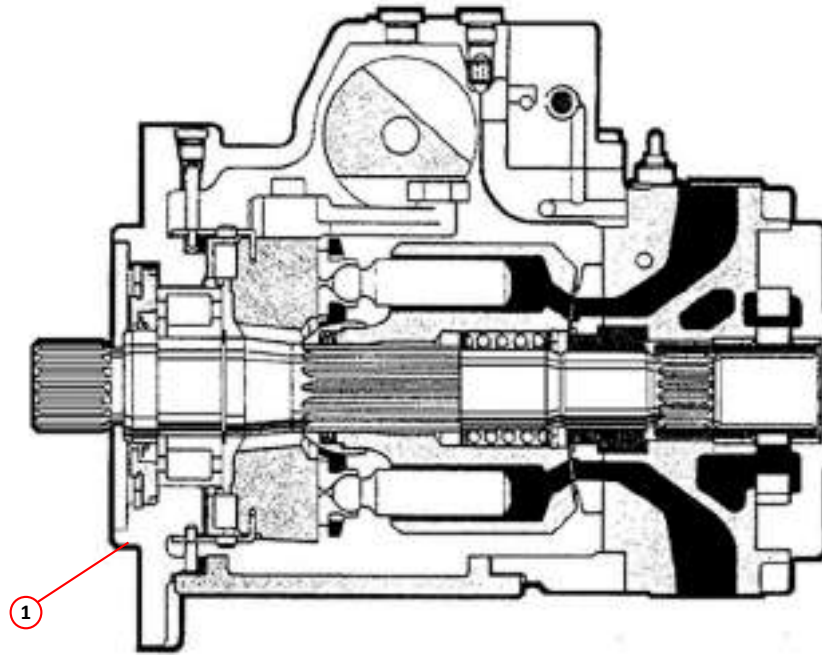
Auxiliary Hand Pump



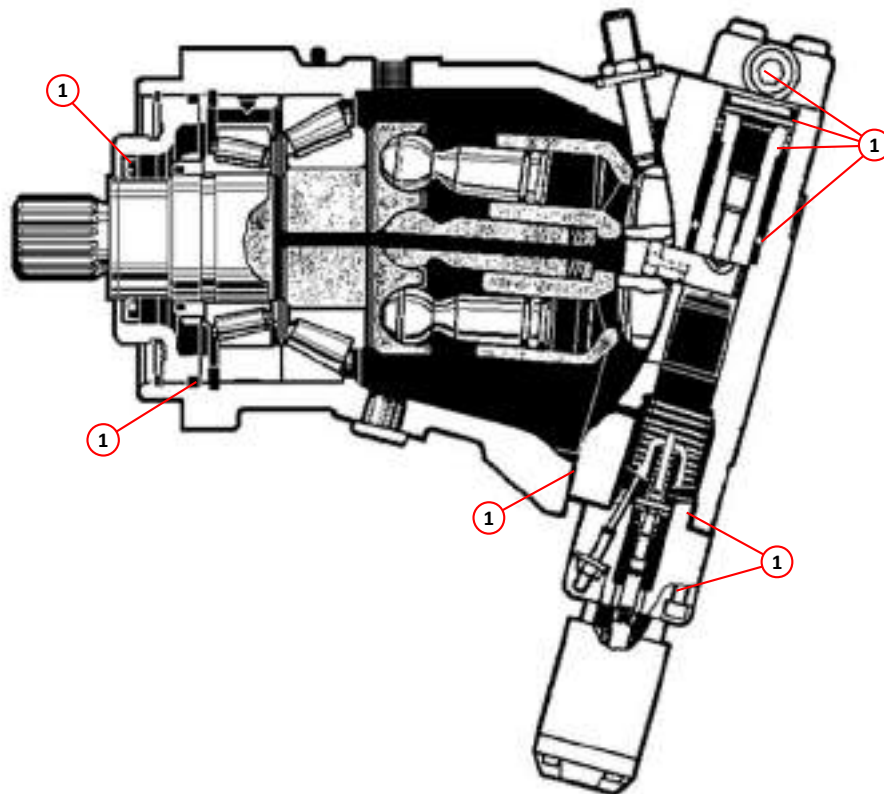
High Pressure Filter(s)

<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>	
			Hydrostatic Drive Pump	
1	037015	1	Hydrostatic drive pump	Page 606
NI	037080	2	. Coil, Forward/Reverse	
NI	031480	1	. Pipe, top, transmission (metal)	
NI	031481	1	. Pipe, bottom, transmission (metal)	

<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>	
			Hydrostatic Drive Motor	
	040705	1	Hydrostatic drive motor	Page 606
	011069	4	. Set screw, M12 x 40mm	
	011097	4	. Spring washer, M12	
1	023224	1	. Seal Kit	
NI	027887	1	. Change-over block	
NI	000037	4	. . Set screw, M6 x 40mm	
NI	028175	4	. Break-off pins	
NI	028049	1	. Piston	
NI	028047	1	. . Spring, large	
NI	028050	1	. Cap	
NI	028048	1	. . Spring, small	
NI	024946	1	. O-Ring kit, bottom change-over block (has the following)	
NI	024893	2	. . O-Ring, 5.28 x 1.78	
NI	024894	3	. . O-Ring, 7.65 x 1.78	
NI	024895	2	. . O-Ring, 9.25 x 1.78	
NI	024896	1	. . O-Ring, 29.87 x 1.78	
NI	024731	1	. Blanking plug	



Hydrostatic Drive Pump



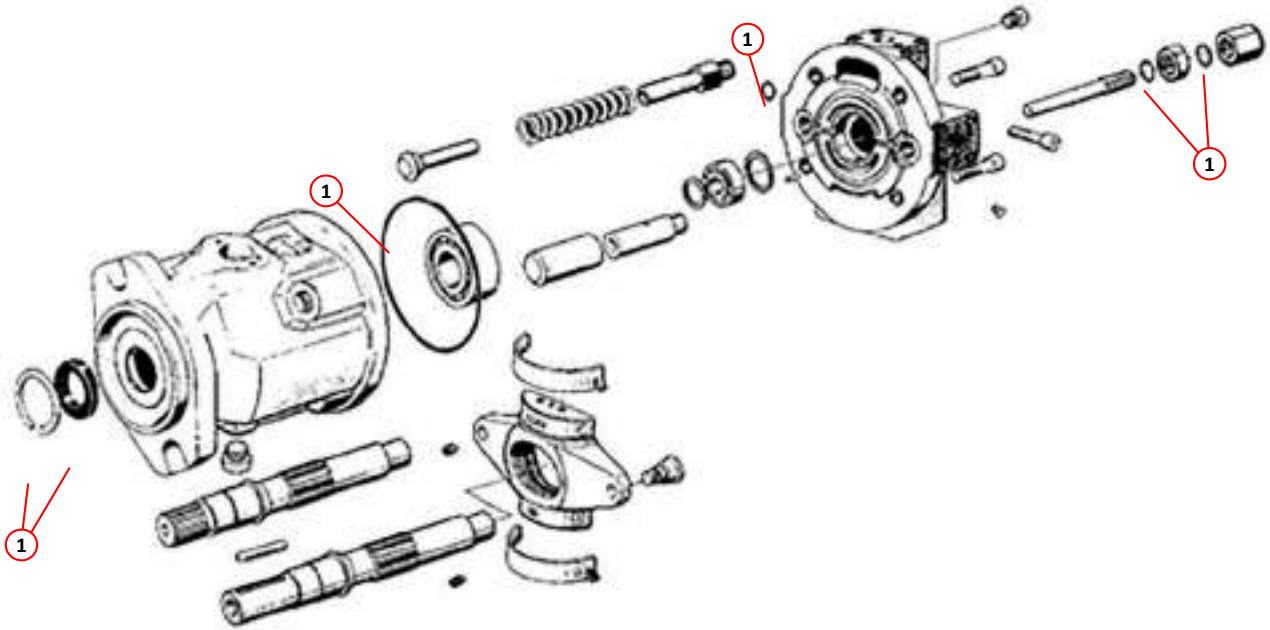
Hydrostatic Drive Motor

Item	Part Number	Quantity	Description
Suction Fan Pump and Related Spares			
	023620	1	Fan pump, A10V045
	026235	1	Fan pump, A10V060 high output (Magnum Unidrive)
	024770	1	Fan pump, A10V045 SAE B-B (French option)
	011053	2	. . Set screw, M12 x 35mm
	011097	4	. . Spring washer, M12
1	014552 *	1	. Seal kit, for pump (023620 Fan pump A10V045 only)
1	030561	1	. Seal kit, for pump (026235 Fan pump A10V060 only)
		1	. . O-Ring, $\varnothing 167\text{mm}$
		4	. . O-Ring, $\varnothing 15\text{mm}$
		3	. . O-Ring, $\varnothing 7.65\text{mm}$
		1	. . O-Ring, $\varnothing 9.25\text{mm}$
		2	. . O-Ring, $\varnothing 14\text{mm}$
		1	. . O-Ring, $\varnothing 31.47\text{mm}$
		1	. . Shaft seal (V-Ring)
		1	. . Circlip
		6	. . Seal, Dowty
NI	025804	1	. Gasket, fan pump to engine PTO (Unidrive installations only)
NI	024715	1	Splined adaptor (used on Mercedes chassis)
NI	014217	1	Flow-control valve

Item	Part Number	Quantity	Description
Suction Fan Motor			
1	024641	1	Motor, hydraulic, fan, VOAC F12-030-MF-CH-K Page 386
NI	000343	2	. Bolt, socket cap, M14 x 50mm
NI	011127	2	. . Nut, M14, Nyloc
2	011052	1	. Fan mounting bolt, M12 x 30mm
3	024791	1	. . Cap washer VOAC motor
4	035967	1	. Valve block assembly
5	013523	2	. . O-ring, $\varnothing 25\text{mm}$ ID
6	000048	8	. . Screw, socket cap head, M10 x 80mm
7	011095	8	. . . Spring washer, M10
8	011151	2	. . Adaptor, M/M $\frac{3}{4}$ " BSP
9	011155	2	. . . Seal, Dowty, $\frac{3}{4}$ " BSP
10	011248	1	. . Adaptor, M18 x $\frac{3}{8}$ " BSP
11	011247	1	. . . Seal, Dowty, M18
12	010921	1	. . . Hose tail, $\frac{3}{8}$ " BSP nut x $\frac{3}{8}$ " hose
NI	025184	1	. . Speed sensor

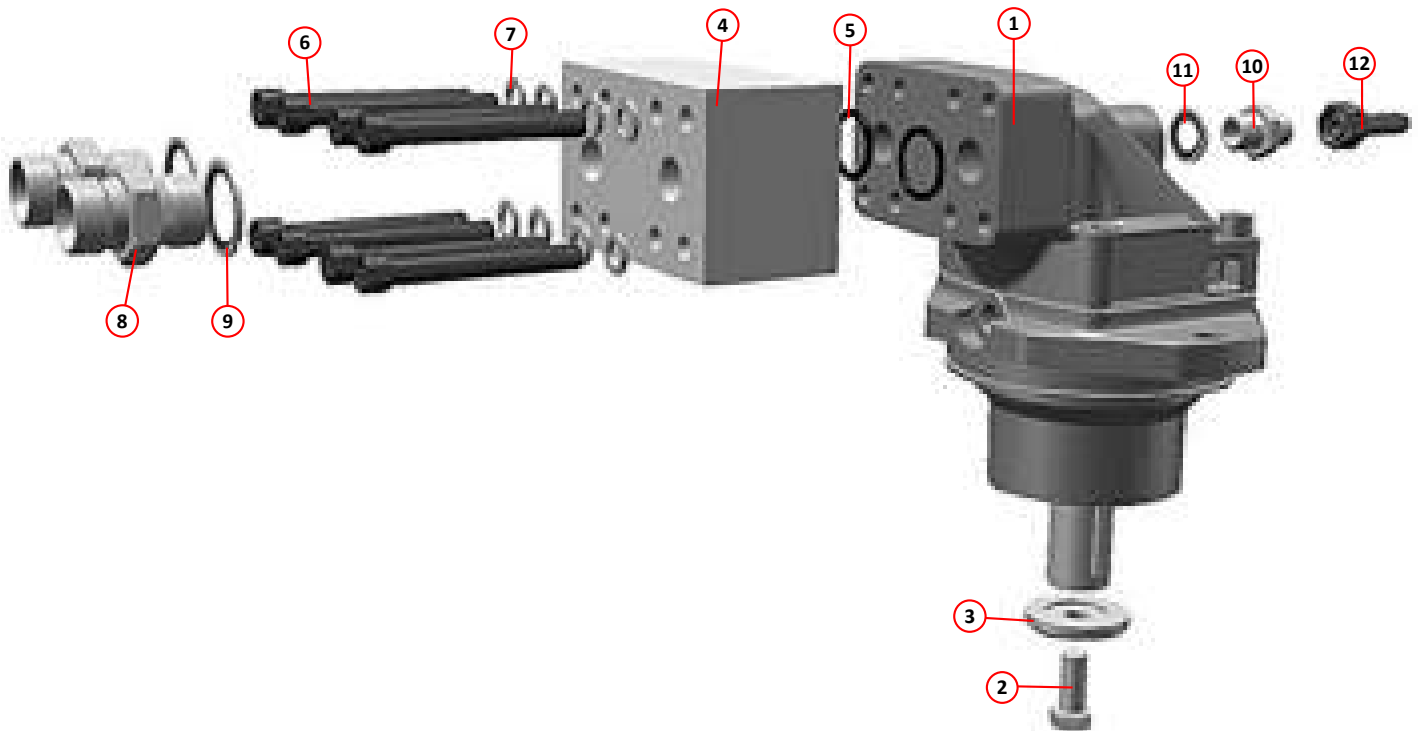
Notes:-

* Some items in the seal kit are intended for use in the pump's control valve.



i Ports are on sides and not as shown

Suction Fan Pump



Suction Fan Motor Assembly

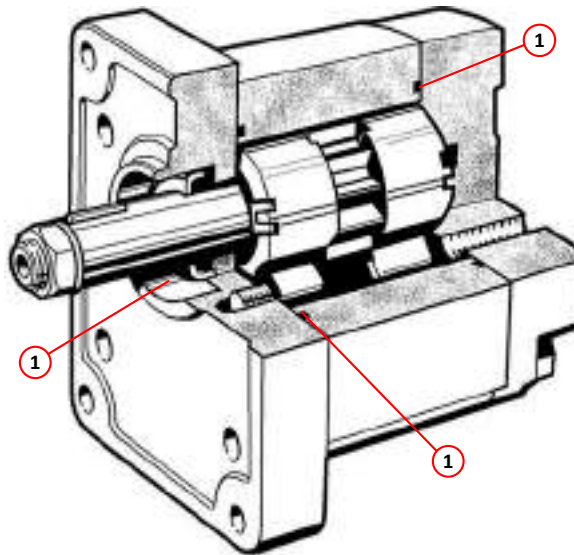
Item	Part Number	Quantity	Description
Motor - 30 Litre High Pressure Water Pump			
	025373	1	Motor, hydraulic, 19cc Page 442, 516
	000020	4	. Set screw, M6 x 30mm
	011090	8	. Washer, M6
	011071	4	. Nut, M6, Nyloc
1	*	1	. Seal kit

Item	Part Number	Quantity	Description
Motor - Low Pressure Water Pump			
Motor - 42 Litre High Pressure Water Pump			
1	013527	1	Motor, hydraulic, ...Page 446, 516
	011069	2	. Set screw, M12 x 40mm
	011077	2	. Nut, M12, Nyloc
2	*	1	. Seal kit
		1	. . Dust seal, shaft
		1	. . KBADH-Ring
		1	. . O-Ring
		3	. . O-Ring
		7	. . Plain washer
		1	. . Plain washer

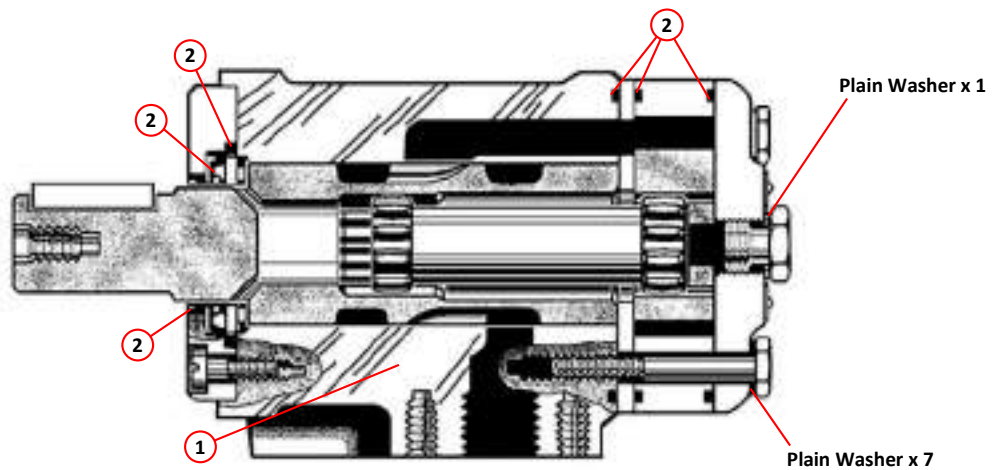
Item	Part Number	Quantity	Description
Motor - 75 Litre High Pressure Water Pump			
1	027866	1	Motor, hydraulic Page 450, 516
	011034	4	. Set screw, M10 x 40mm
	011075	4	. Nut, M10, Nyloc
NI	*	1	. Seal kit
2	022698	2	. Flange, $\frac{3}{4}$ " BSP
	000055	8	. . Set screw, socket cap head, M10 x 40mm
3	011155	2	. . Seal, Dowty, $\frac{3}{4}$ " BSP
4	011224	2	. . . Adaptor, $\frac{3}{4}$ " BSP x $\frac{3}{8}$ " BSP
5	011218	1	. . Seal, Dowty, 22mm
6	012472	1	. . . Adaptor, 22mm x $\frac{3}{8}$ " BSP

Notes:-

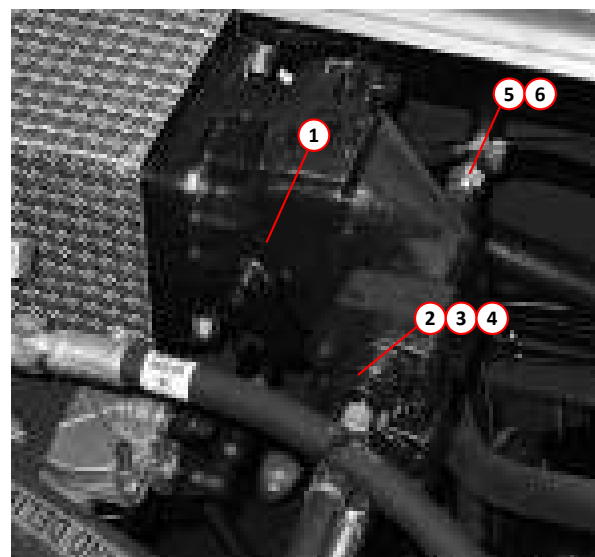
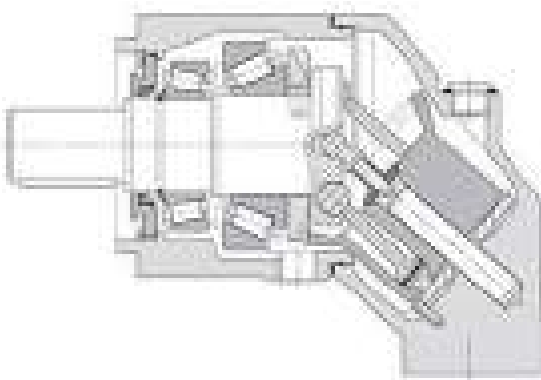
* Please contact Scarab Parts Department before ordering.



Hydraulic Motor - 30 Litre High Pressure Water Pumps



Hydraulic Motor - Low Pressure Water Pump and 42 Litre High Pressure Water Pump



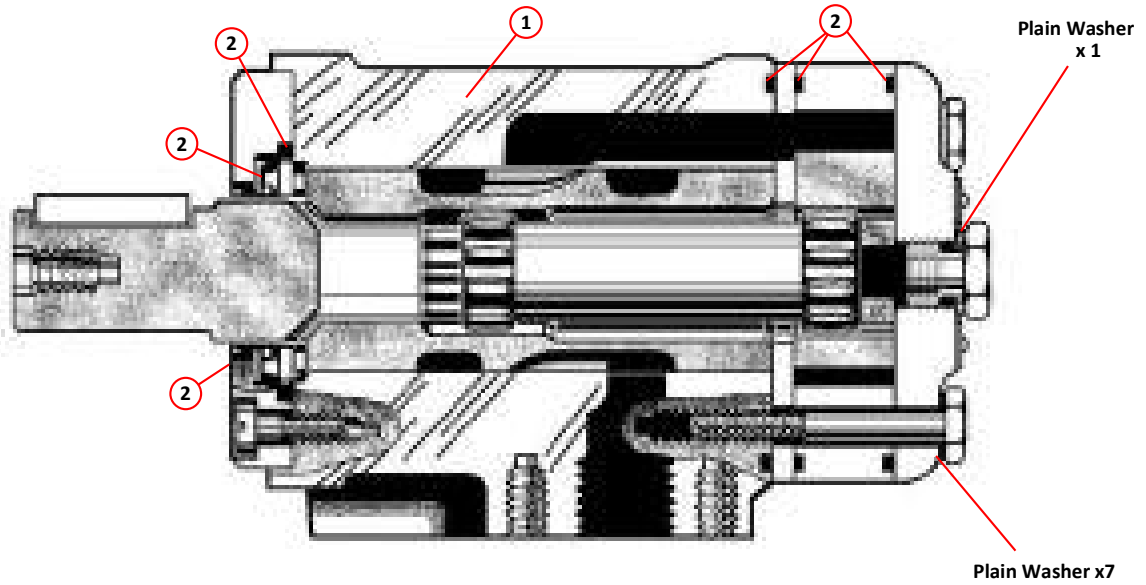
Hydraulic Motor - 75 Litre High Pressure Water Pump

<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Brush Drive Motors			
1	010566	1	Motor, hydraulic, (wide sweep)
1	010749	1	Motor, hydraulic, (side/front brush)
	011053	2	. Set screw, M12 x 35mm
	011069	2	. Set screw, M12 x 40mm
	011077	2	. Nut, M12, Nyloc
2	*	1	. Seal kit

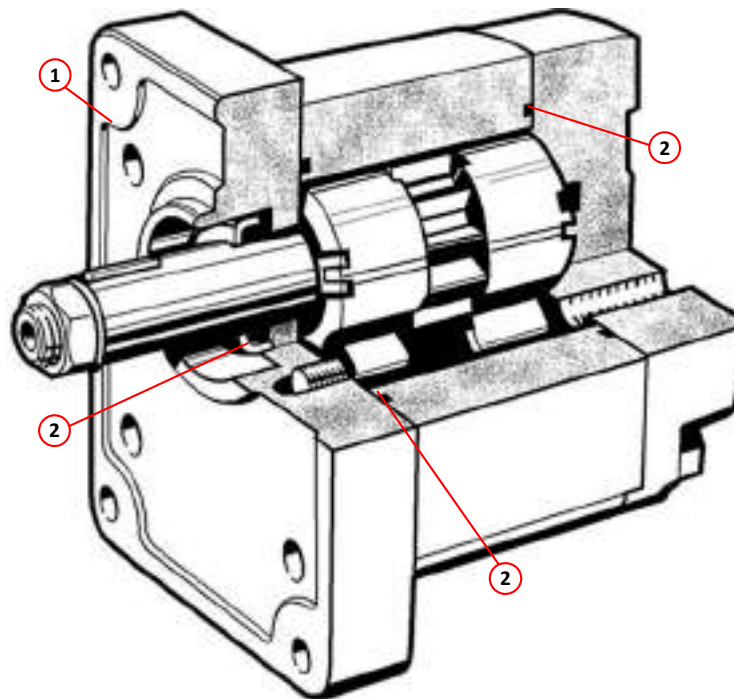
<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Cooling Fan Motor			
1	028752	1	Motor, hydraulic, 16cc Page 460
	000020	4	. Set screw, M6 x 30mm
	011090	8	. Washer, M6
	011071	4	. Nut, M6, Nyloc
2	*	1	. Seal kit

Notes:-

* Please contact the Scarab Parts Department before ordering.



Hydraulic Motor - Wide Sweep, Front and Side Brushes



Hydraulic Motor - Cooling Fan

Item	Part Number	Quantity	Description
Brush and Nozzle Hydraulic Ram Assemblies			
1	024539	1	Ram, nozzle tilt Page 522
1	024539	1	Ram, side brush lift (RH & LH) Page 526
1	024539	1	Ram, wide sweep slewing Page 526
2	012539	1	. Restrictor, No. 5 White, M/M, $\frac{1}{4}$ " BSP
3	011152	1	. Seal, Dowty, $\frac{1}{4}$ " BSP
4	014473	1	. Bellows
NI	011629	1	. Seal kit, ram

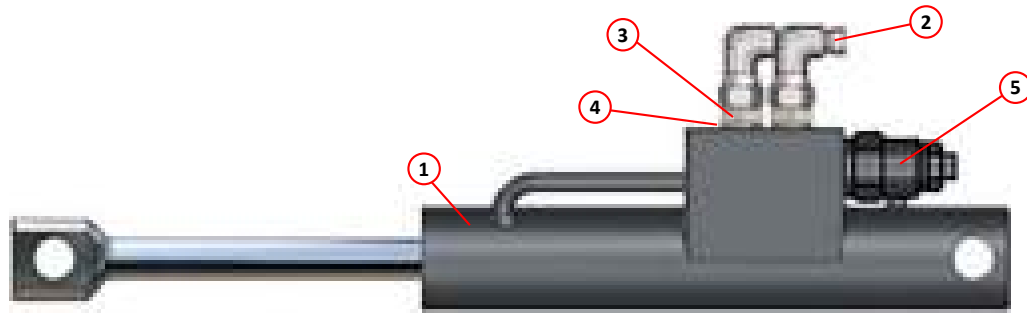
Item	Part Number	Quantity	Description
Rear Door Open/Close Hydraulic Ram Assembly			
1	022511	1	. Hopper rear-door open/close ram Page 524
2	011171	2	. Elbow, swivel, $\frac{1}{4}$ " BSP
3	011158	2	. Adaptor, M/M, $\frac{1}{4}$ " BSP
4	011152	2	. Seal, Dowty, $\frac{1}{4}$ " BSP
5	028178	1	. Check valve
NI	022777	1	. Seal kit, hydraulic ram

Item	Part Number	Quantity	Description
Rear Door Locking Hydraulic Ram Assembly			
1	022350	1	Hopper rear-door locking ram Page 524
2	002017	2	. Elbow, Banjo, M/M, $\frac{1}{4}$ " BSP
3	011152	4	. . Seal, Dowty, $\frac{1}{4}$ " BSP
NI	022776	1	. Seal kit, hydraulic ram

Item	Part Number	Quantity	Description
Hopper Lift Two Stage Hydraulic Ram Assembly			
1	024249	1	Hopper lift ram, dual stage Page 362, 524
2	027785	1	. Seal kit
NI	028178	1	. Check valve, (Integrated ICEB30F)
3	011159	1	. Adaptor, M/M, $\frac{3}{8}$ " BSP
NI	11153	1	. . Seal, Dowty, $\frac{3}{8}$ " BSP
4	012881	1	. Bearing, spherical



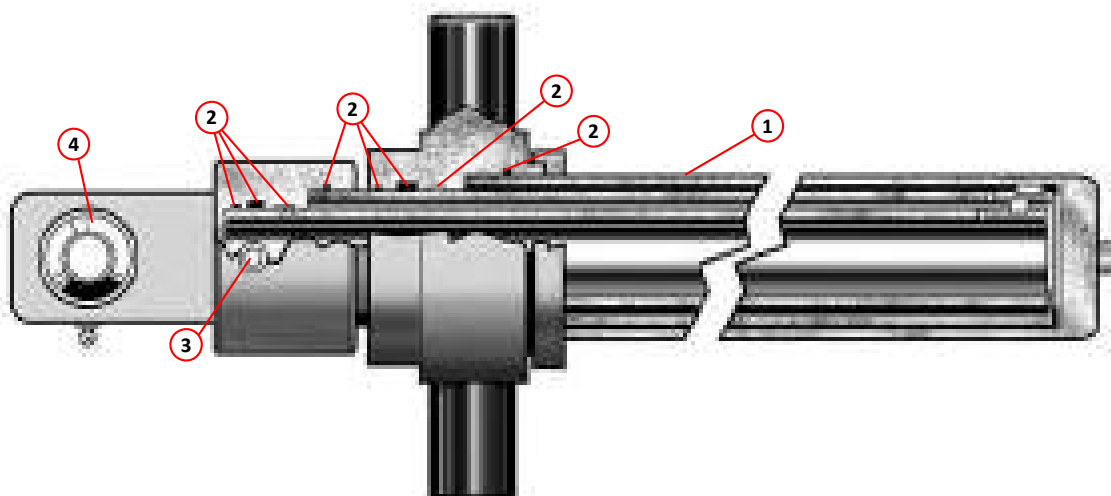
Hydraulic Brush Ram Assembly



Rear Door Open / Close Ram

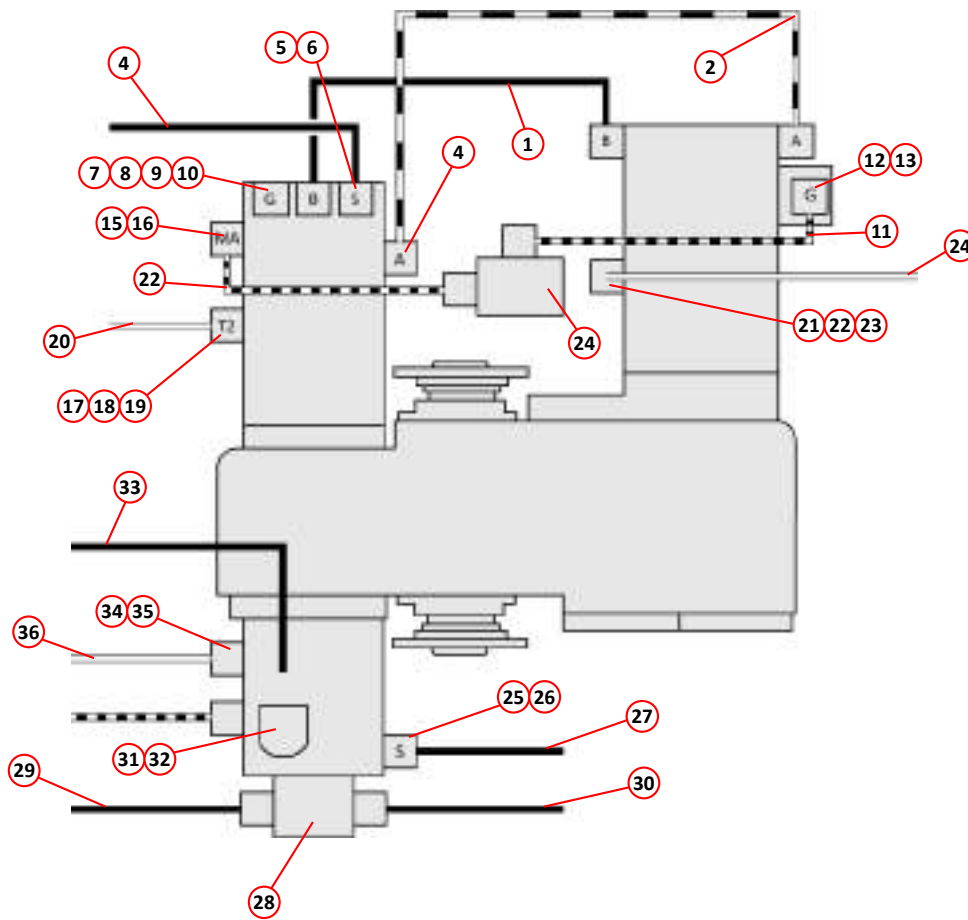


Hopper Rear Door Locking



Two Stage Hopper Lift Ram

Item	Part Number	Quantity	Description
Scarab Hydrostatic Gearbox Piping Arrangements			
1	031481	1	Transmission pipe, bottom assembly, metal c/w flanges
2	031480	1	Transmission pipe, top assembly, metal c/w flanges
3	022876	1	. Spacer, HP, $\frac{3}{4}$ " SAE x 10mm thick (between split flange & pump)
4	014827		Hose, rubber, 1" bore (from suction filter on chassis)
5	022706	1	. Adaptor, M33 x $\frac{3}{4}$ " BSP
NI	002019	1	. . Seal, Dowty, M33
6	011210	1	. . Elbow, $\frac{3}{4}$ " BSP x 1" hose
7	011158	1	Adaptor, M/M, $\frac{1}{4}$ " BSP
8	011169	1	. . Elbow, swivel, F/F, $\frac{1}{4}$ " BSP
9	011935	1	Adaptor, M/F, $\frac{1}{4}$ " BSP x M12
NI	011150	4	. Seal, Dowty, $\frac{1}{4}$ " BSP
10	013035	1	. Coupling, pressure test point, M12
11	023741	1	Hose, rubber, $\frac{1}{4}$ " x 500mm, ($\frac{1}{4}$ " BSP x 8mm straight. pipe ends)
12	011158	1	. Adaptor, M/M, $\frac{1}{4}$ " BSP
13	002045	1	. . Banjo coupling, 14mm
14	027241	1	Valve Block Assembly - Transmission Page 482
15	011158	1	. Adaptor, M/M, $\frac{1}{4}$ " BSP
16	011169	1	. . Elbow, swivel, F/F, $\frac{1}{4}$ " BSP
17	012472	1	Adaptor, M22 x $\frac{3}{8}$ " BSP
NI	011218	1	. Seal, Dowty, M22
18	011205	1	. Elbow, swivel, F/F, $\frac{3}{8}$ " BSP
19	010930	1	. . Tail piece, hose, $\frac{5}{8}$ " BSP x $\frac{5}{8}$ " hose
20	011000		. . . Hose, rubber, $\frac{5}{8}$ " bore (drive pump case-drain)
21	011248	1	Adaptor, M18 x $\frac{3}{8}$ " BSP
NI	011247	1	. Seal, Dowty, M18
22	011205	1	. Elbow, swivel, F/F, $\frac{3}{8}$ " BSP
23	010930	1	. . Tail piece, hose, $\frac{5}{8}$ " BSP x $\frac{5}{8}$ " hose
24	011000		. . . Hose, rubber, $\frac{5}{8}$ " bore (drive motor case-drain)
25	011230	2	Flange, split, 1 $\frac{1}{2}$ " SAE
	011108	4	. Cap screw, socket head, $\frac{1}{2}$ " UNC x 1 $\frac{1}{2}$ "
26	011231	1	. Elbow, hose, 1 $\frac{1}{2}$ " SAE x 1"
27	014827		Hose, rubber, 1" bore (from suction filter in hydraulic tank)
28			Gear Pump Page 496,498
29	014827	1	. Hose, rubber, 1" bore (tank suction filter/gear pump)
30	001020	1	. Hose, rubber, $\frac{3}{8}$ " BSP x 2680mm (gear pump/main valve block)
31	014104	1	Elbow, 1" SAE x $\frac{3}{4}$ " BSP
	000045	4	. Cap screw, socket head, $\frac{3}{8}$ " UNC x 1 $\frac{1}{2}$ "
	011406	4	. Spring washer, $\frac{3}{8}$ "
32	011193	1	Adaptor, reducing, 1" BSP x $\frac{3}{4}$ " BSP
NI	011156	1	. Seal, Dowty 1"
33	011733	1	. Hose, rubber, $\frac{3}{4}$ " BSP, $\frac{5}{8}$ " bore x 510mm (fan pump/fan block)
34	011226	1	Adaptor, $\frac{7}{8}$ " UNF x $\frac{1}{2}$ " BSP
NI	011218	1	. Seal, Dowty, M22
35	011234	1	. Elbow, hose, 90° sweep, $\frac{1}{2}$ " BSP x $\frac{5}{8}$ "
36	011000		. Hose, rubber, $\frac{5}{8}$ " bore (fan pump case-drain)

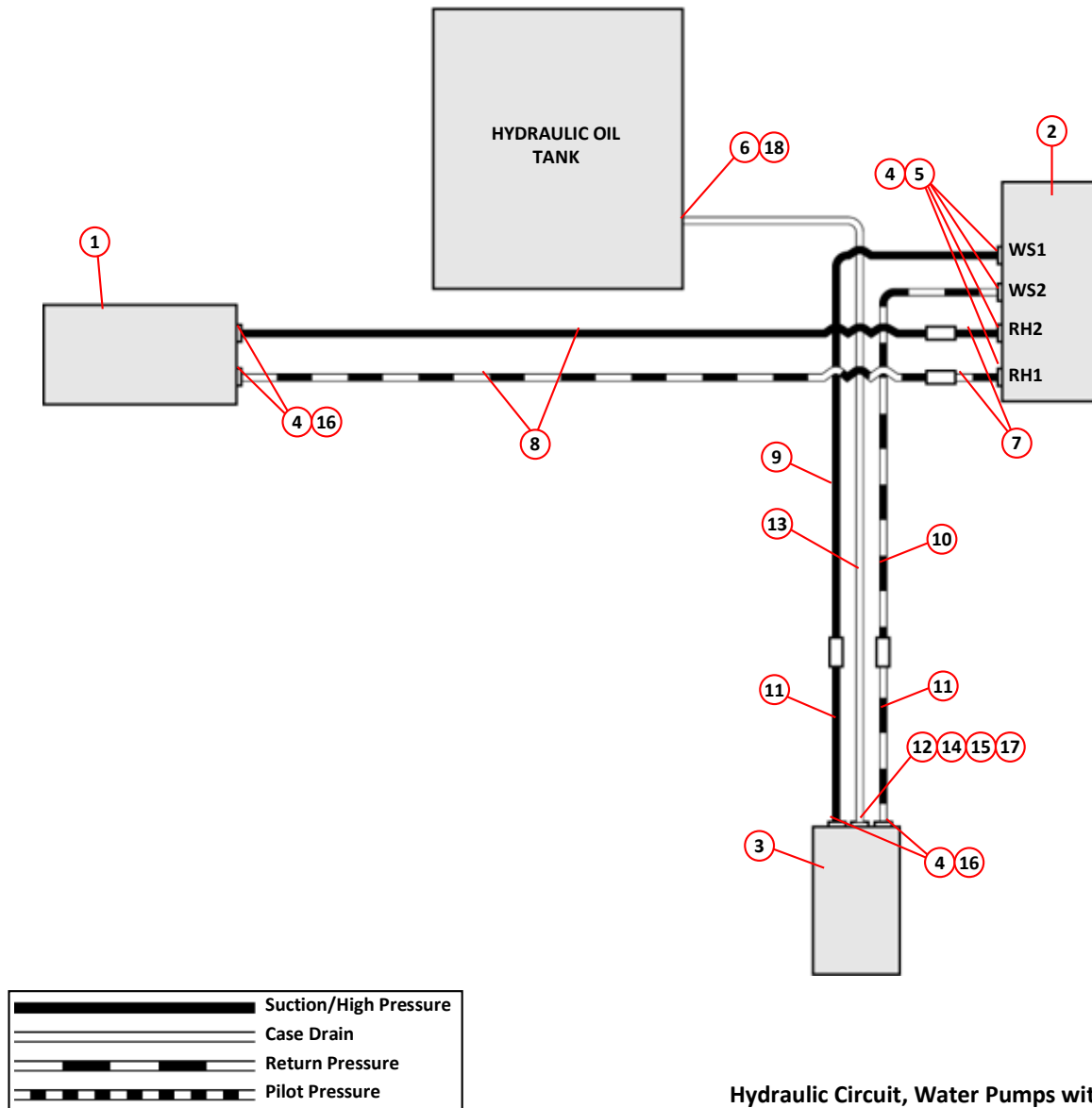


Scarab Transfer Gearbox - Piping Arrangement

Item	Part Number	Quantity	Description
Hydraulic Circuit, Water Pumps With Option Block			
1	025373	1	Motor, hydraulic, 30 LPM. HP water pump Page 508
1	013527	1	Motor, hydraulic, 42 LPM. HP water pump Page 508
1	027866	1	Motor, hydraulic, 75 LPM. HP water pump Page 508
2	*	2	. Valve block Page 468
3	013527	1	. Motor, hydraulic, LP water pump Page 508
4	011154	8	. . Seal, Dowty, $\frac{1}{2}$ " $\times$ $\frac{3}{8}$ "
5	020903	4	. . Adaptor, $\frac{1}{2}$ " $\times$ $\frac{3}{8}$ " BSP
6	011153	4	. . Seal, Dowty, $\frac{1}{2}$ "
7	031481	2	. . Pipe, steel
8	011305	2	. Hose, rubber $\frac{3}{8}$ " BSP x 1500mm (MERLIN)
8	011330	2	. Hose rubber $\frac{3}{8}$ " BSP x 1620mm (MAGNUM)
9	031508	1	. . Pipe, steel
10	031509	1	. . Pipe, steel
11	001255	2	. Hose, rubber, $\frac{3}{8}$ " BSP x 475mm, straight+90° ends
12	010910	2	. . Elbow, M/F, $\frac{3}{8}$ " BSP
13	010958	AR	. Hose, rubber $\frac{3}{8}$ " bore
14	010516	2	. . Hose clip, worm drive
15	010922	1	. . Hose tail $\frac{3}{8}$ " $\times$ $\frac{1}{4}$ " BSP
16	011167	4	. . Adaptor $\frac{1}{2}$ " BSP $\times$ $\frac{3}{8}$ " BSP
17	011152	1	. . . Seal, Dowty $\frac{1}{4}$ "
18	020923	1	. . Hose tail $\frac{3}{8}$ " BSP $\times$ $\frac{3}{8}$ " hose

Notes:-

* If you need to order this item then please contact the Scarab Parts Department quoting you machine's serial number and model.

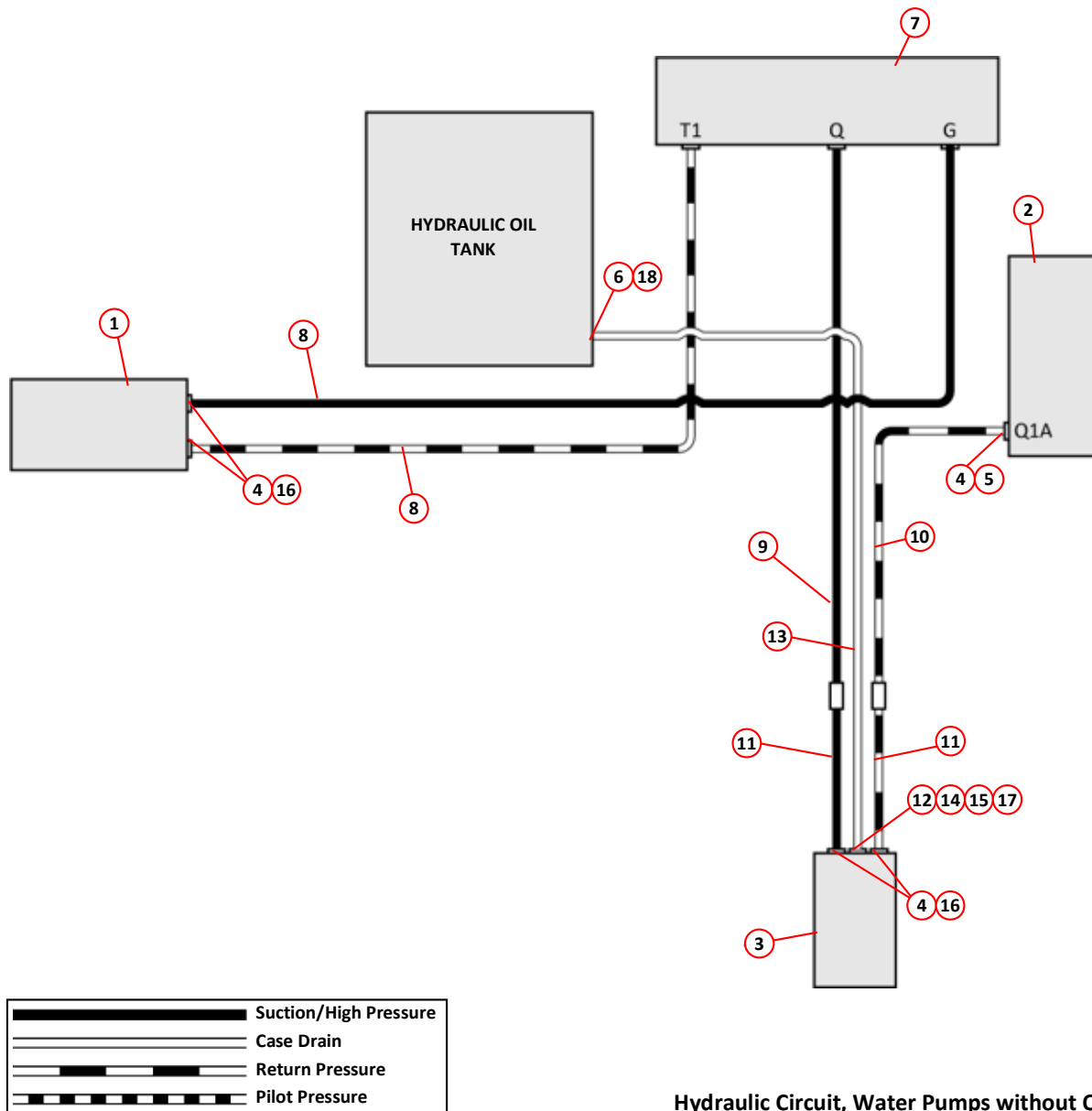


Hydraulic Circuit, Water Pumps with Option Block

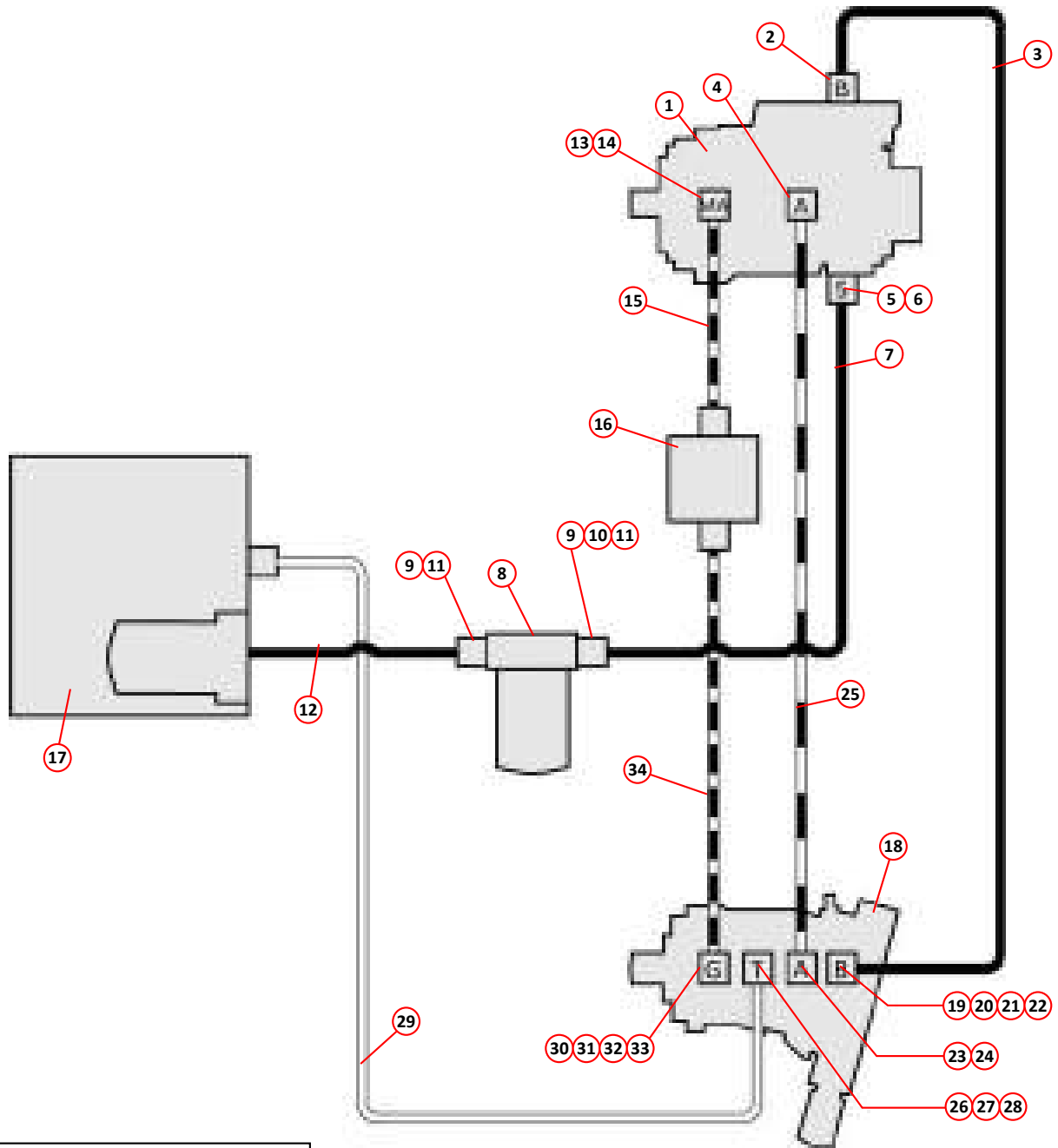
Item	Part Number	Quantity	Description
Hydraulic Circuit, Water Pumps Without Option Block			
1	025373	1	Motor, hydraulic, 30 LPM. HP water pump Page 508
1	013527	1	Motor, hydraulic, 42 LPM. HP water pump Page 508
1	022769	1	Motor, hydraulic, 75 LPM. HP water pump Page 508
2	*	2	. Valve block, brush control Page 476
3	013527	1	. Motor, hydraulic. LP water pump Page 508
4	011154	8	. . Seal, Dowty, $\frac{1}{2}$ " $\frac{3}{8}$ "
5	020903	4	. . Adaptor, $\frac{1}{2}$ " x $\frac{3}{8}$ " BSP
6	011153	4	. . Seal, Dowty $\frac{3}{8}$ "
7	*	1	Main valve block, ... Page 468, Page 472
8	001009	2	. Hose, Rubber $\frac{3}{8}$ " BSP x 2200mm
9	031588	1	. . Pipe, steel
10	031589	1	. . Pipe, steel
11	001255	2	. Hose, rubber, $\frac{3}{8}$ " BSP x 475mm, straight+90° ends
12	010910	2	. . Elbow, M/F, $\frac{3}{8}$ "
13	010958	AR	. Hose, rubber, $\frac{3}{8}$ " bore
14	010516	2	. . Hose clip, worm drive
15	010922	1	. . Hose tail, $\frac{3}{8}$ " x $\frac{1}{4}$ " BSP
16	011167	4	. . Adaptor, $\frac{1}{2}$ " BSP x $\frac{3}{8}$ " BSP
17	011152	1	. . Seal, Dowty, $\frac{1}{4}$ "
18	020923	1	. . Hose tail, $\frac{3}{8}$ " BSP x $\frac{3}{8}$ " hose

Notes:-

* If you need to order this item then please contact the Scarab Parts Department quoting you machine's serial number and model.



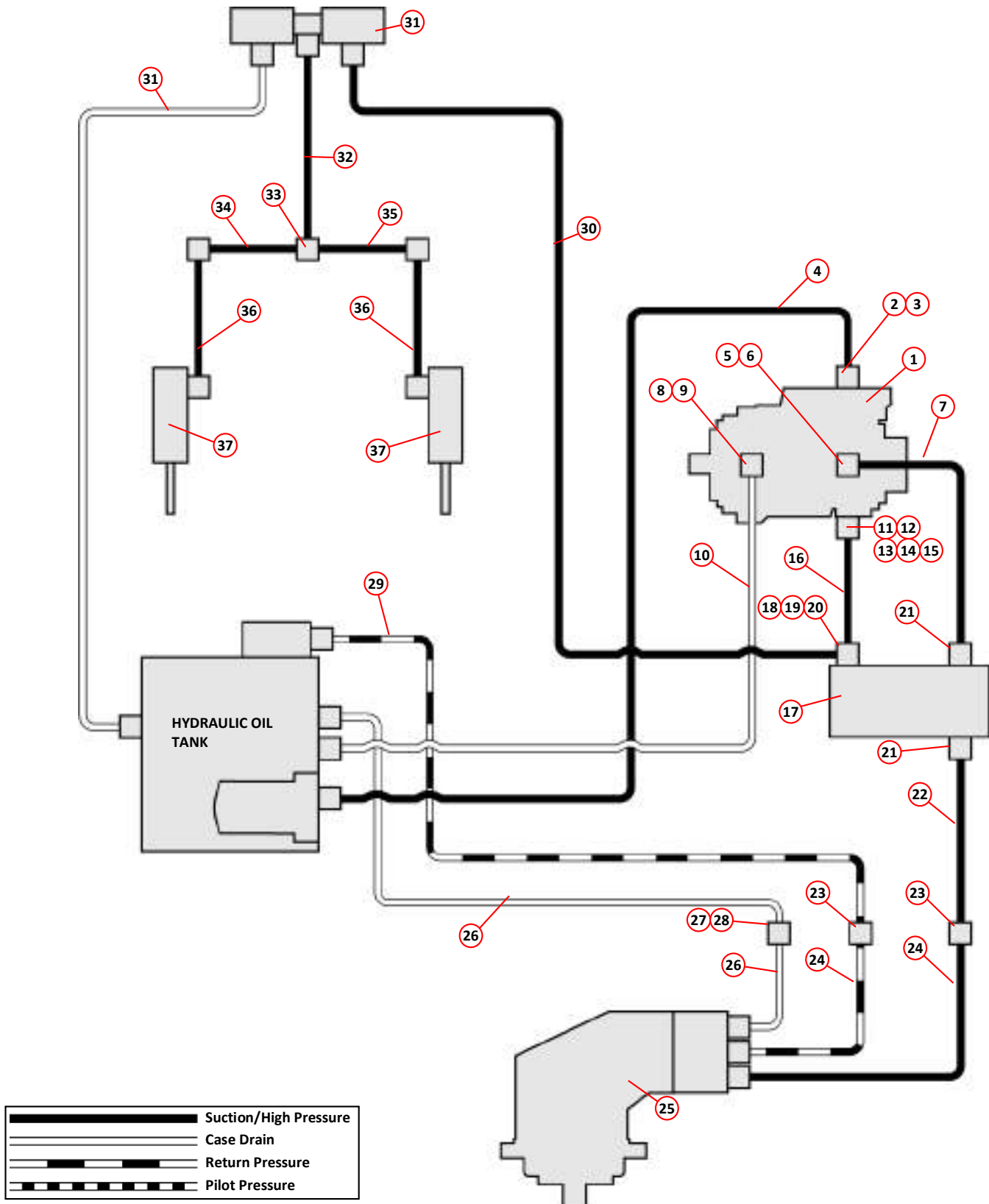
Item	Part Number	Quantity	Description
Hydraulic Circuit, Hydrostatic Drive			
1	028895	1	Pump, hydraulic, hydrostatic drive Page 504
2	002000	2	. Flange, split, $\frac{3}{4}$ " SAE
	011408	3	. . Cap screw, socket head, M10 x 30mm
	011032	1	. . Bolt, M10 x 30mm
	011095	1	. . Spring washer, M10
3	022700	1	. Hose assembly, transmission, $\frac{3}{4}$ " SAE
NI	013523	1	. . O-Ring
4	002000	2	. Flange, split, $\frac{3}{4}$ " SAE
	011408	3	. . Cap screw, socket head, M10 x 30mm
	011032	1	. . Bolt, M10 x 30mm
	011095	1	. . Spring washer, M10
5	022076	1	. Adaptor, M33 x $\frac{3}{4}$ " BSP
NI	002019	1	. . Seal, Dowty, M33
6	011210	1	. . Elbow, hose, $\frac{3}{4}$ " BSP x 1"
7	014827	AR	. Hose, rubber, 1" bore
8	013122	1	. . Filter, suction
	011010	2	. . Bolt, M8 x 20mm
	011093	2	. . Spring washer, M8
NI	013124	1	. . Element, suction filter Page 500
NI	021720	1	. . Gauge, pressure
9	011184	2	. . Adaptor, $\frac{1}{4}$ " BSP x $\frac{3}{4}$ " BSP
NI	011155	2	. . . Seal, Dowty, $\frac{3}{4}$ "
10	013757	1	. . . Valve, ball, $\frac{3}{4}$ " BSP
11	011210	2	. . . Elbow, hose, $\frac{3}{4}$ " BSP x 1"
12	014827	AR	Hose, rubber, 1" bore
13	011915	1	. Adaptor, $\frac{1}{4}$ " BSP x $\frac{1}{4}$ " BSP
NI	011150	3	. . Seal, Dowty, $\frac{1}{4}$ "
14	011169	1	. . Elbow, swivel, F/F, $\frac{1}{4}$ " BSP
15	011324	1	Hose, rubber, $\frac{1}{4}$ " BSP x 360mm
16	027241	1	Transmission valve assembly Page 482
17	022616	1	Tank assembly, hydraulic oil Page 462
18	022724	1	Motor, hydraulic, hydrostatic drive Page 504
19	002001	2	. Flange, split, 1" SAE
	011412	2	. . Cap screw, socket head, M12 x 40mm
	011069	2	. . Bolt, M12 x 40mm
20	002020	1	. . Elbow, 1" SAE x $\frac{3}{4}$ " BSP
21	011196	1	. . Elbow, 90° swept, $\frac{3}{4}$ " BSP
22	012228	1	. . . Stud, coupling adaptor, M/F, $\frac{3}{4}$ " BSP x $\frac{3}{4}$ " BSP
23	002001	2	. Flange, split, 1" SAE
	011412	3	. . Cap screw, socket head, M12 x 40mm
	011069	1	. . Bolt, M12 x 40mm
24	002020	1	. . Elbow, 1" SAE x $\frac{3}{4}$ " BSP
NI	013517	1	. . . O-Ring
25	022722	1	Hose, rubber, transmission, $\frac{3}{4}$ " SAE
26	011248	1	. Adaptor M18 x $\frac{3}{8}$ " BSP
NI	011247	1	. . Seal, Dowty, M18
27	011205	1	. . Elbow, swivel, F/F, $\frac{3}{8}$ " BSP x $\frac{3}{8}$ " BSP
28	010930	1	. . . Tail piece, hose, $\frac{5}{8}$ " BSP x $\frac{5}{8}$ "
29	011000	AR	Hose, rubber, $\frac{5}{8}$ " bore
30	011158	1	. Adaptor, $\frac{1}{4}$ " BSP x $\frac{1}{4}$ " BSP
NI	011150	2	. . Seal, Dowty, $\frac{1}{4}$ "
31	011169	1	. . Elbow, swivel, F/F, $\frac{1}{4}$ " BSP x $\frac{1}{4}$ " BSP, F/F
32	011935	1	. . . Adaptor, M/F, $\frac{1}{4}$ " BSP x M12
33	013035	1	 Coupling, pressure test point, M12
34	011090	1	Hose, rubber, $\frac{1}{4}$ " BSP x 550mm



Hydraulic Circuit, Hydrostatic Drive

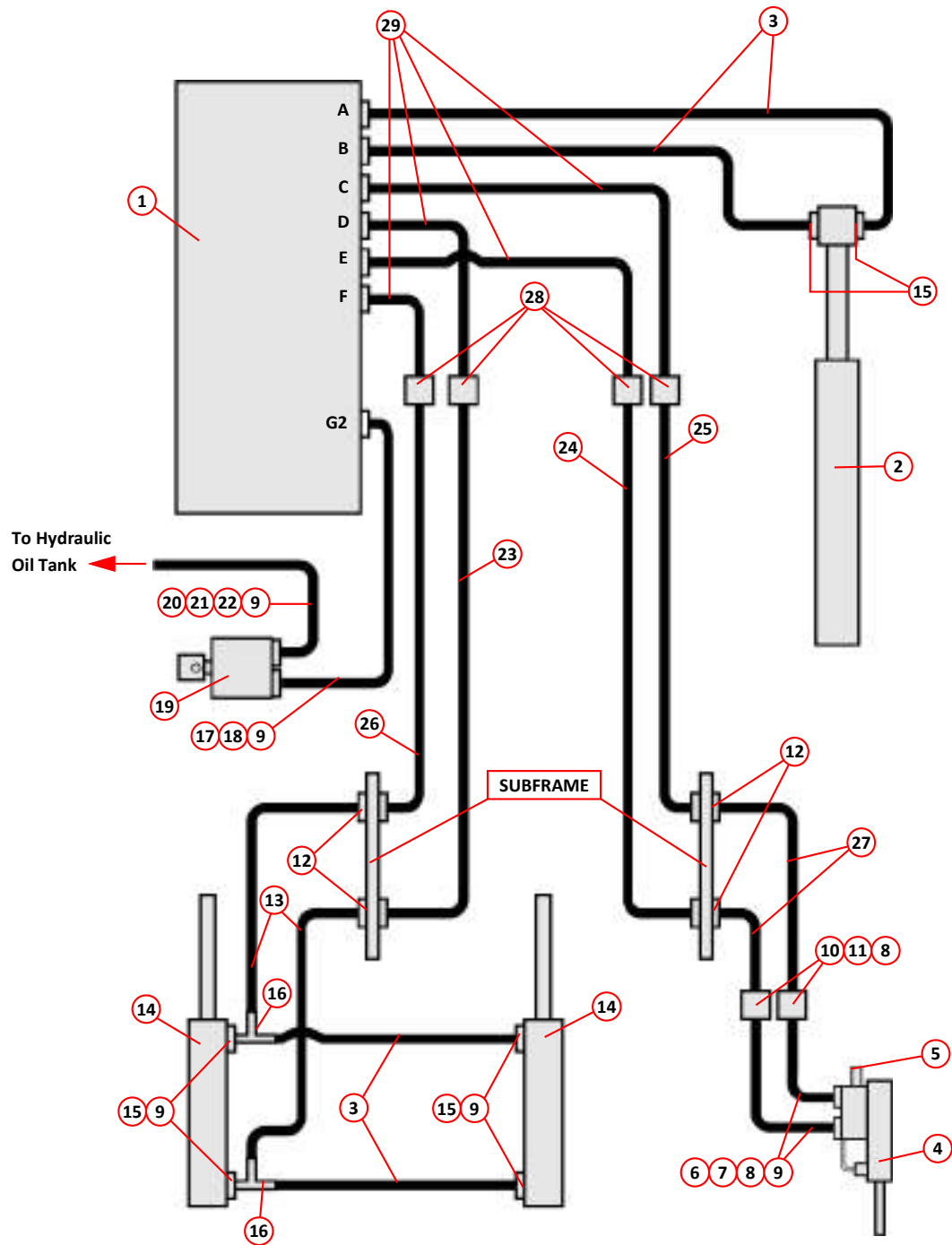
	Suction/High Pressure
	Case Drain
	Return Pressure
	Pilot Pressure

Item	Part Number	Quantity	Description
Hydraulic Circuit, Suction Fan and Variable Nozzle Tilt			
1	023620	1	Pump, hydraulic, suction fan Page 506
1	026235	1	Pump, hydraulic, suction fan (Magnum/Unidrive) Page 506
2	011230	1	. Flange, split, $1\frac{1}{2}$ " SAE
	011108	4	. . Cap screw, socket head, $\frac{1}{2}$ " UNC x $1\frac{1}{2}$ "
3	011231	1	. Elbow, hose, $1\frac{1}{2}$ " SAE x 1
4	014827	AR	Hose, rubber, 1" bore (from suction filter in hydraulic tank)
5	014104	1	. Elbow, 1" SAE x $\frac{3}{4}$ " BSP
	000045	4	. . Cap screw, socket head, $\frac{3}{8}$ " UNC x $1\frac{1}{2}$ "
	011406	4	. . Washer, spring, $\frac{3}{8}$ "
6	002040	1	. . Adaptor, reducing, M/M, 1" BSP x $\frac{5}{8}$ " BSP
NI	011156	1	. . . Seal, Dowty, 1"
7	023640	1	Hose, rubber, $\frac{5}{8}$ " BSP, $\frac{5}{8}$ " bore Megaflex (fan pump/fan block)
8	011226	1	. Adaptor, $\frac{7}{8}$ " UNF x $\frac{1}{2}$ " BSP
NI	011218	1	. . Seal, Dowty, M22
9	011234	1	. . Elbow, hose, 90° sweep, $\frac{1}{2}$ " BSP x $\frac{5}{8}$ " hose
10	011000		. Hose, $\frac{5}{8}$ " bore
11	011227	1	. . Adaptor, $\frac{7}{16}$ " UNF x $\frac{1}{4}$ " BSP
NI	011215	2	. . . Seal, Dowty, M12
12	011169	1	. . Elbow, swivel, F/F, $\frac{1}{4}$ " BSP
13	002014	1	. . . Adaptor, M/F, $\frac{1}{4}$ " BSP
14	013036	1	 Coupling, pressure test point, $\frac{1}{4}$ " BSP
15	011227	1	. Adaptor, $\frac{7}{16}$ " UNF x $\frac{1}{4}$ " BSP
16	011324	1	. Hose, rubber, $\frac{1}{4}$ " BSP x 360mm (fan pump/fan block)
17		1	. Valve block, fan boost, suction fan Page 478
	011017	2	. Bolt, M8 x 60mm
	011092	2	. Washer, M8
	011073	2	. Nut, M8, Nyloc
NI	013036	1	. Coupling, pressure test point, $\frac{1}{4}$ " BSP
NI	011150	1	. . Seal, Dowty, $\frac{1}{4}$ "
18	011158	1	. Adaptor, $\frac{1}{4}$ " BSP x $\frac{1}{4}$ " BSP
19	011171	1	. . Elbow, swivel, M/F, $\frac{1}{4}$ " BSP
20	002005	1	. . . Tee, F/M/M, $\frac{1}{4}$ " BSP
21	002041	2	. Adaptor, reducing, M/M, $\frac{3}{4}$ " BSP x $\frac{5}{8}$ " BSP
NI	011155	2	. . Seal, Dowty, $\frac{3}{4}$ "
22	001038	1	. Hose, rubber $\frac{3}{4}$ " BSP x 3600 (Merlin/XP)
22	023642	1	. Hose, rubber $\frac{3}{4}$ " BSP x 3300 (Magnum)
23	002148	2	. . . Elbow, M/F, $\frac{3}{4}$ " BSP
24	001150	2	. Hose, rubber, $\frac{3}{4}$ " BSP x 2800mm (Merlin/Magnum)
24	001223	2	. Hose, rubber, $\frac{3}{4}$ " BSP x 2500mm (XP)
25	025564	1	. Hydraulic motor assembly, suction fan (Merlin)
25	025392	1	. Hydraulic motor assembly, suction fan (Magnum)
26	010958	AR	. Hose, $\frac{3}{8}$ " bore, low pressure, fan motor case-drain
27	013333	2	. . Hose connector $\frac{3}{8}$ "
28	010516	2	. . . Hose clip, worm drive
NI	010923	1	. . Hose tail, $\frac{3}{8}$ " BSP x $\frac{3}{8}$ " hose
29	023641	1	. Hose, rubber $\frac{3}{4}$ " x 2900 (Merlin/XP)
29	001029	1	. Hose, rubber $\frac{3}{4}$ " x 3900 (Magnum)
30	011328	1	. Hose, rubber $\frac{1}{4}$ " BSP x 1780mm
31	025003	1	. Valve assembly, variable nozzle tilt Page 480
32	031747	1	. . Pipe, steel, 6mm
33	002085	1	. . Tee, 6mm pipe
34	03178	1	. . Pipe, steel, 6mm (LH)
35	031749	1	. . Pipe, steel, 6mm (RH)
36	010988	2	. . Hose, rubber $\frac{1}{4}$ " x 1473mm
37	024539	2	. Ram, hydraulic, nozzle tilt



Hydraulic Circuit, Suction Fan and Variable Nozzle Tilt

Item	Part Number	Quantity	Description
Hydraulic Circuit, Hopper and Rear Door			
1	028400	1	Valve block, main hydraulic Page 468, 472
2	024249	1	Ram, hydraulic, two stage, hopper lift Page 512
3	010987	2	. Hose, rubber, $\frac{1}{4}$ " BSP X 1660mm, hopper ram ports A & B
4	022511	1	Ram. hydraulic, door raise/lower Page 512
5	028178	1	. Valve, check
6	011324	2	Hose, rubber $\frac{1}{4}$ " BSP x 295mm
7	011158	2	. Adaptor, M/M, $\frac{1}{4}$ " BSP
8	011171	4	. Elbow, swivel, M/F, $\frac{1}{4}$ " BSP
9	011152	14	. Seal, Dowty $\frac{1}{4}$ " BSP
10	011269	2	. Adaptor, bulkhead, M/M, $\frac{1}{4}$ " BSP
11	000277	4	. Washer, M12
12	032773	4	. Adaptor, bulkhead, M12 x 6mm pipe
13	001060	2	Hose, rubber $\frac{1}{4}$ " BSP x 1020mm, straight+90° ends
14	022350	2	Ram, hydraulic, door locking Page 512
15	002017	4	. Elbow, Banjo, $\frac{1}{4}$ " BSP
16	011206	2	. Tee, M/F/F, $\frac{1}{4}$ " BSP
17	031498	1	. Pipe, steel 6mm
17	031496	1	. Pipe, steel 6mm (Magnum)
17	035705	1	. Pipe, steel 6mm, hinge down pneumatic box
17	035706	1	. Pipe, steel 6mm (Magnum), hinge down pneumatic box
18	002014	1	. Adaptor, $\frac{1}{4}$ " BSP x 6mm pipe
19	028307	1	Hand pump
20	011309	1	Hose, rubber, $\frac{3}{8}$ " x 432mm
21	011199	1	. Adaptor, M/M, $\frac{3}{8}$ " x $\frac{1}{4}$ " BSP
22	002014	1	. Adaptor, M/F, $\frac{1}{4}$ " BSP
23	032981	1	. Pipe, steel (Merlin)
23	032556	1	. Pipe, steel (Magnum)
23	032974	1	. Pipe, steel (XP)
24	032983	1	. Pipe, steel (Merlin)
24	032554	1	. Pipe, steel (Magnum)
24	032976	1	. Pipe, steel (XP)
25	032984	1	. Pipe, steel (Merlin)
25	032555	1	. Pipe, steel (Magnum)
25	032977	1	. Pipe, steel (XP)
26	032982	1	. Pipe, steel (Merlin)
26	032557	1	. Pipe steel (Magnum)
26	032975	1	. Pipe steel (XP)
27	001061	2	Hose, rubber, $\frac{1}{4}$ " BSP x 4100mm, straight+90° ends
27	001222	2	Hose, rubber, $\frac{1}{4}$ " BSP x 3800mm, straight+90° ends (XP)
28	020903	4	. Stud, $\frac{3}{8}$ " BSP x 12mm pipe
29	001254	4	Hose, rubber, $\frac{3}{8}$ " BSP x 1500mm, straight+90°



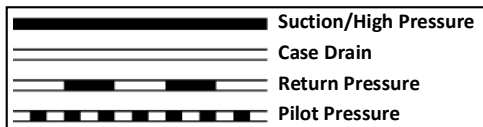
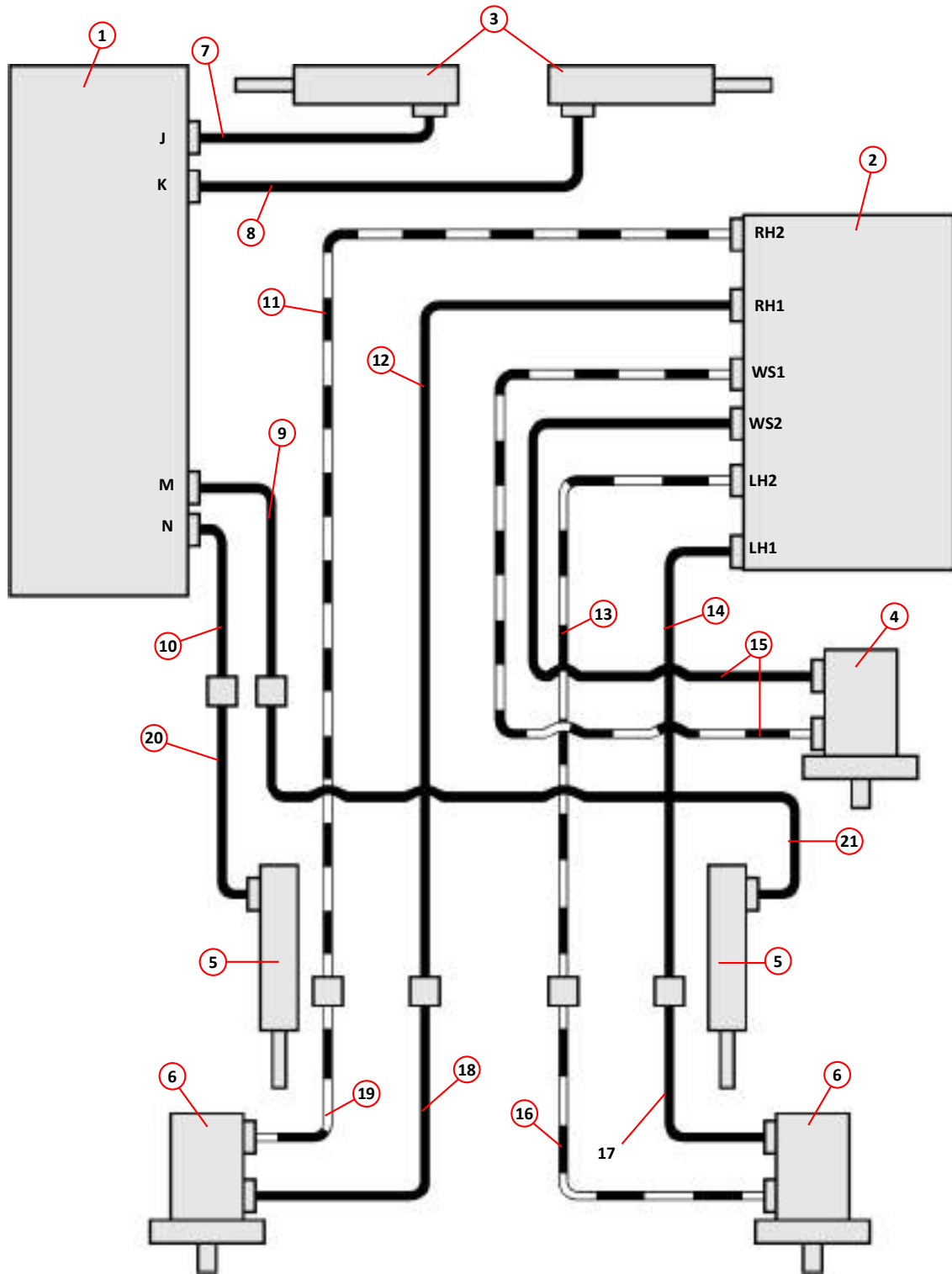
Hydraulic Circuit, Hopper and Rear Door

	Suction/High Pressure
	Case Drain
	Return Pressure
	Pilot Pressure

Item	Part Number	Quantity	Description
Hydraulic Circuit, Side Brush and Wide Sweep			
1	028400	1	Valve block, main hydraulic Page 468
2	024786	1	Valve block, brush control Page 476
3	024539	2	Ram, hydraulic, wide sweep slew Page 512
4	010566	1	Motor, hydraulic, wide sweep brush Page 510
5	024539	2	Ram, hydraulic, side brush raise/lower Page 512
6	010749	2	Motor, hydraulic, RH/LH side brush Page 510
NI	011205	1	Elbow, $\frac{3}{8}$ " BSP F/F (Merlin) used with Item 14
NI	020903	1	Stud, $\frac{3}{8}$ " BSP x 12mm pipe (Merlin) used with Item 14
7	010985	1	. Hose, rubber, $\frac{1}{4}$ " BSP x 2150mm
8	001037	1	. Hose, rubber, $\frac{1}{4}$ " BSP x 2650mm
9	031545	1	. . Pipe, steel, 6mm (Merlin)
9	032319	1	. . Pipe, steel, 6mm (XP)
9	032320	1	. . Pipe, steel, 6mm (XP)
9	031579	1	. . Pipe, steel, 6mm (Magnum)
10	031470	1	. . Pipe, steel, 6mm (Merlin)
10	032325	1	. . Pipe, steel, 6mm (XP)
10	031580	1	. . Pipe, steel, 6mm (Magnum)
11	031543	1	. . Pipe, steel, 12mm (Merlin)
11	032322	1	. . Pipe, steel, 12mm (XP)
11	031582	1	. . Pipe, steel, 12mm (Magnum)
12	031544	1	. . Pipe, steel, 12mm (Merlin)
12	032321	1	. . Pipe, steel, 12mm (XP)
12	031582	1	. . Pipe, steel, 12mm (Magnum)
13	031506	1	. . Pipe, steel, 12mm (Merlin)
13	032324	1	. . Pipe, steel, 12mm (XP)
13	031577	1	. . Pipe, steel, 12mm (Magnum)
14	031507	1	. . Pipe, steel, 12mm (Merlin)
14	032323	1	. . Pipe, steel, 12mm (XP)
14	031578	1	. . Pipe, steel, 12mm (Magnum)
15	011305	1	. Hose, rubber, $\frac{3}{8}$ " BSP x 1500mm
16	011307 *	1	. Hose, rubber, $\frac{3}{8}$ " BSP x 1300mm (Merlin/Magnum)
16	001042 *	1	. Hose, rubber, $\frac{3}{8}$ " BSP x 680mm (XP)
17	001224 *	1	. Hose, rubber, $\frac{3}{8}$ " BSP x 1250mm (Merlin)
17	001023 *	1	. Hose, rubber, $\frac{3}{8}$ " BSP x 710mm (XP)
17	011307 *	1	. Hose, rubber, $\frac{3}{8}$ " BSP x 1300mm (Magnum)
18	011307 *	1	. Hose, rubber, $\frac{3}{8}$ " BSP x 1300mm (Merlin/Magnum)
18	001023 *	1	. Hose, rubber, $\frac{3}{8}$ " BSP x 710mm (XP)
19	001224 *	1	. Hose, rubber, $\frac{3}{8}$ " BSP x 1250mm (Merlin)
19	001042 *	1	. Hose, rubber, $\frac{3}{8}$ " BSP x 680mm (XP)
19	011307 *	1	. Hose, rubber, $\frac{3}{8}$ " BSP x 1300mm (Magnum)
20	001160 *	1	. Hose, rubber, $\frac{1}{4}$ " BSP x 950mm (Merlin)
20	010991 *	1	. Hose, rubber, $\frac{1}{4}$ " BSP x 550mm (XP)
20	001101 *	1	. Hose, rubber, $\frac{1}{4}$ " BSP x 1125mm (Magnum)
21	011323 *	1	. Hose, rubber, $\frac{1}{4}$ " BSP x 1020mm (Merlin)
21	010991 *	1	. Hose, rubber, $\frac{1}{4}$ " BSP x 550mm (XP)
21	001101 *	1	. Hose, rubber, $\frac{1}{4}$ " BSP x 1125mm (Magnum)

Notes:-

* Are for standard models, in certain cases the lengths may vary. If in any doubt contact Scarab Parts Department, quoting your machine's serial number and model.

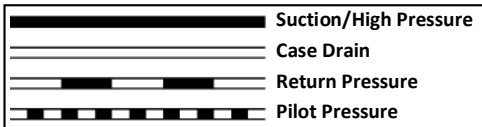
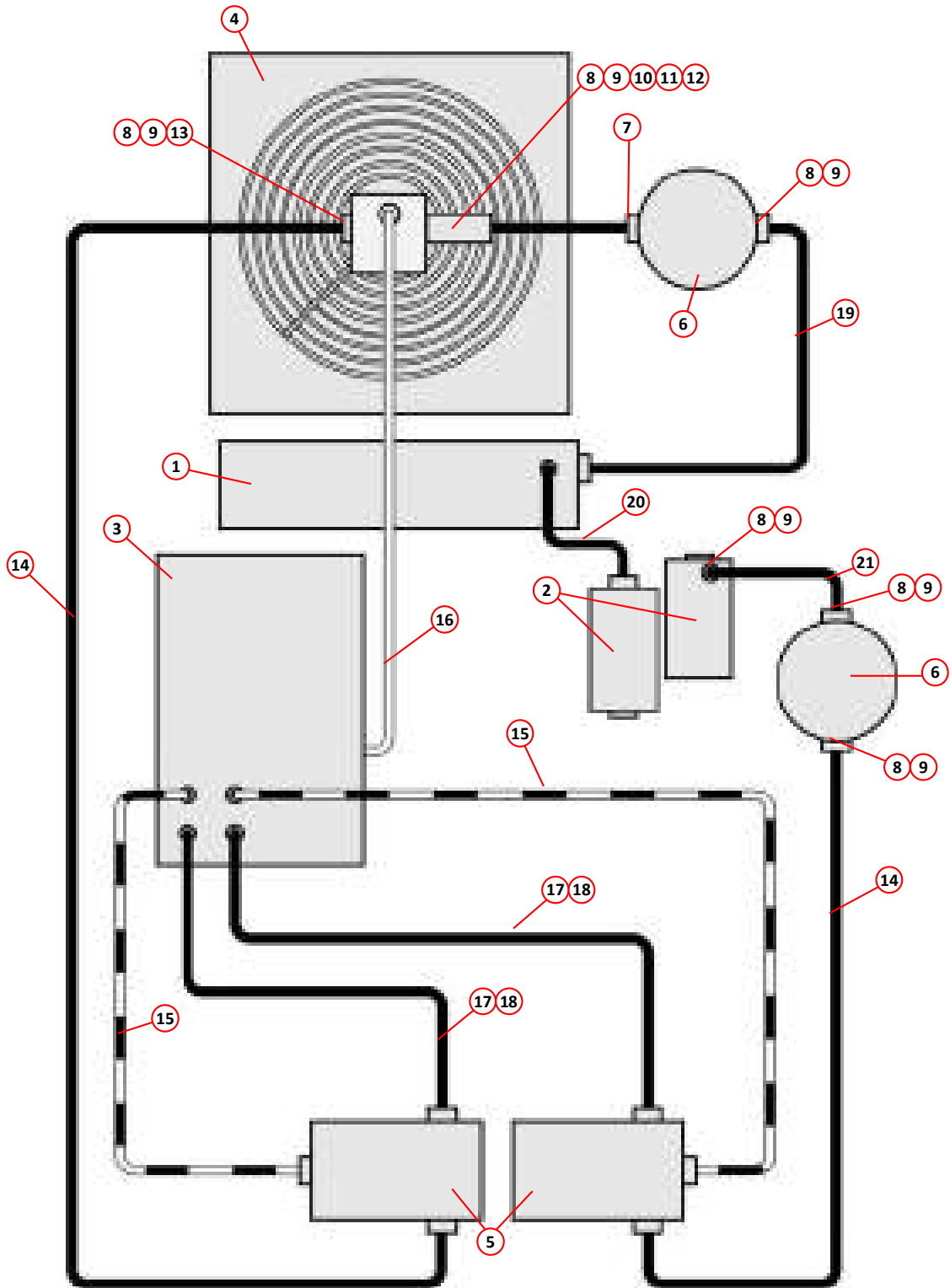


Hydraulic Circuit, Side Brush and Wide Sweep

Item	Part Number	Quantity	Description
Hydraulic Circuit, Gear Pump			
1	028400	1	Valve block, main hydraulic Page 468
2	024786	1	Valve block, brush and LP water control Page 476
3	022616	1	Hydraulic oil tank Page 458
4	028756	1	Oil cooler and fan assembly Page 458
5	024590	1	Gear pump Page 496,498
6	025103 *	2	Filter, high pressure Page 502
7	011310	3	. Hose, rubber, $\frac{3}{8}$ " BSP x 300mm, straight ends
8	011167	7	. . Adaptor, $\frac{1}{2}$ " x $\frac{3}{8}$ " BSP
9	011154	7	. . Seal, Dowty, $\frac{1}{2}$ " BSP
10	011729	1	. . Valve, non-return, M/M, $\frac{3}{8}$ " BSP
11	011153	1	. . Seal, Dowty $\frac{3}{8}$ " BSP
12	011159	1	. . Adaptor, M/M, $\frac{3}{8}$ " BSP
13	011172	3	. . Elbow, swivel, M/F, $\frac{3}{8}$ " BSP
14	001084	1	. Hose, rubber, $\frac{3}{8}$ " BSP x 2330mm, straight+90° ends
15	011000	AR	. Hose, rubber, $\frac{5}{8}$ " bore
16	010958	AR	. Hose, rubber, $\frac{3}{8}$ " bore
17	014827	AR	. Hose, rubber, 1" bore (Red Line)
18	014828	4	. . Clamp, worm drive, hi-torque
10	001255	1	. Hose, rubber, $\frac{3}{8}$ " BSP x 475mm, straight+90° ends
20	002092	1	. Hose, rubber, $\frac{3}{8}$ " BSP x 320mm, straight+90° ends
21	001255 *	1	. Hose, rubber, $\frac{3}{8}$ " BSP x 475mm, straight+90° ends

Notes:-

- * May not have second filter and its fittings, which is attached to the brush and LP water valve block, then item 14 connects direct into the brush and LP water valve block.



Hydraulic Circuit, Gear Pump(s)

<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Clamps For Steel Piping		
027980	AR	Clamp block, single, 6mm
027981	AR	Clamp block, single, 12mm
027982	AR	Clamp block, single, 25mm
027983	AR	Clamp block, double, 6mm x 6mm
027984	AR	Clamp block, double, 12mm x 12mm
027985	AR	Clamp block, double, 6mm x 12mm
027986	AR	Clamp block, double, 12mm x 14mm
027987	AR	Clamp block, double, 17.2mm x 17.2mm
027988	AR	Clamp block, double, 18mm x 18mm
027989	AR	Top plate 2-hole, small
027990	AR	Top plate 2-hole, large
027991	AR	Bottom plate 2-hole, small
027992	AR	Bottom plate 2-hole, large
027993	AR	Bottom plate 1-hole, small
027994	AR	Bottom plate 1-hole, medium
027995	AR	Bottom plate 2-hole, large
027996	AR	Top plate 1-hole, small
027997	AR	Top plate 1-hole, medium
027998	AR	Top plate 1-hole, large

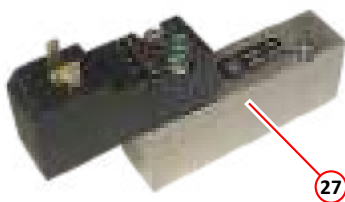
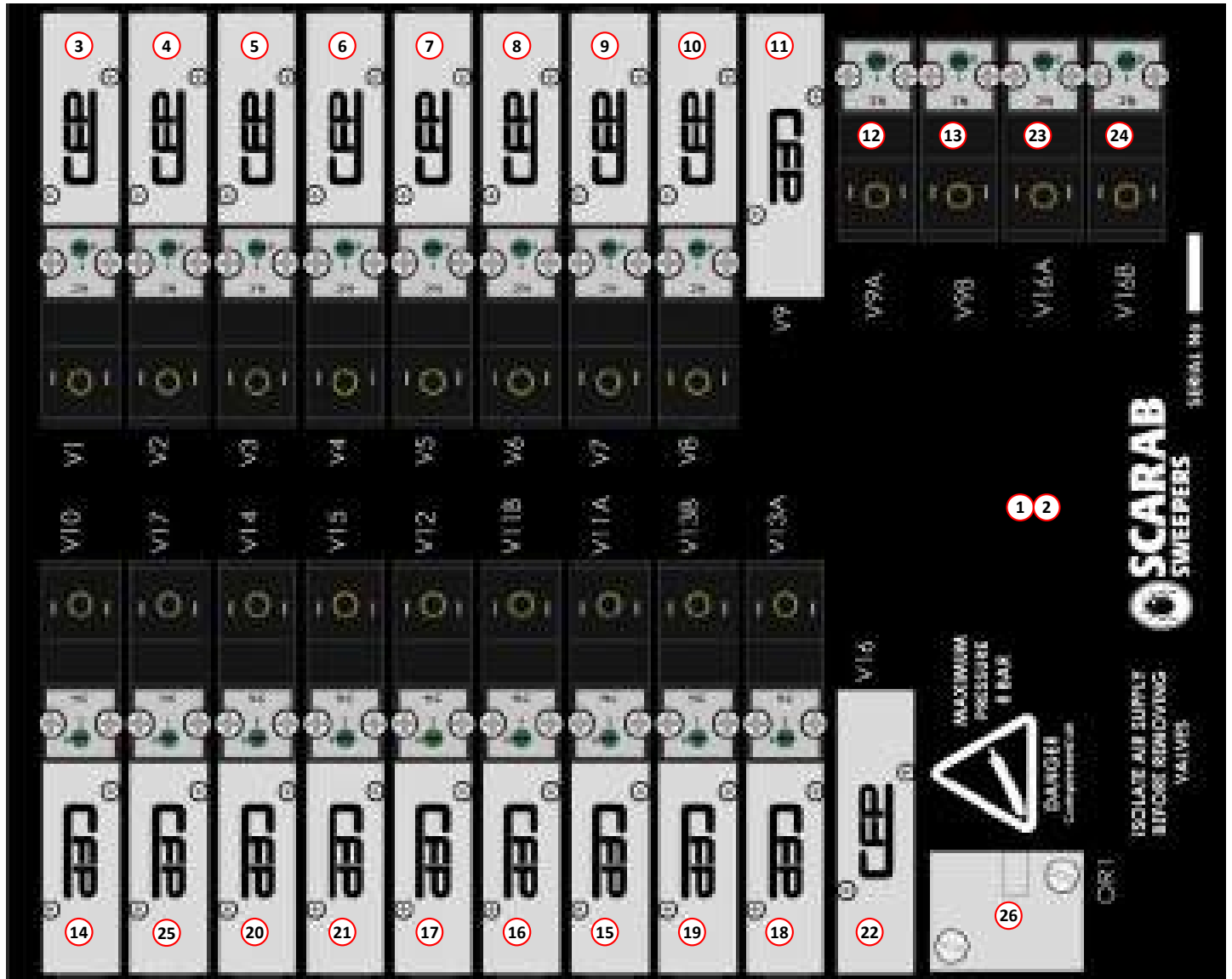
Pneumatic System

<i>Assembly/Description</i>	<i>Page</i>
Pneumatic Valve Control Block High Temperature (HAFNER)	532
Pneumatic Control Box - Hinged	534
Pneumatic Filter/Regulator/Lubricator	538
Wide Sweep/Side Brush Pressure Regulator and Gauge	538
Cylinder Assembly, Side Brush - Pressure	540
Cylinder Assembly, Auxiliary Side Brush - Raise/Lower	540
Cylinder Assembly, Suction Nozzle - Raise/Lower	540
Cylinder Assembly, Suction Nozzle - Tilt	540
Cylinder Assembly, Gear Change (Hydrostatic Gearbox)	542
Cylinder Assembly, Gear Change (UniDrive Gearbox)	542
Cylinder Assembly, Gear Change (HP Gearbox Left Side)	542
Cylinder Assembly, Gear Change (HP Gearbox Right Side)	542
Cylinder Assembly, Wide Sweep - Raise/Lower	544
Cylinder Assembly, Side Brush - Swing Out	544
Cylinder Assembly, Auto Blanking	544
Cylinder Assembly, Magnum Plus Rear Door Auto Blanking	544
Cylinder Assembly, Rear Wander Boom - Raise/Lower	546
Cylinder Assembly, Rear Wander Boom - Blanking	546
Cylinder Assembly, Automatic Hopper Prop	546
Cylinder Assembly, Auxiliary Side Brush - Extend/Retract	546
Cylinder Assembly, Auxiliary Side Brush - Swing In/Out	548
Cylinder Assembly, Front Spray Bar - Raise/Lower	548
Cylinder Assembly, Ratchet Hopper Prop	548
Overhead Boom Air-Pressure Switch	548

Item	Part Number	Quantity	Description
Pneumatic Valve Control Block High Temperature (HAFNER)*			
1	045293	1	Pneumatic valve block, complete with high temperature valves (HAF)
2	045474	1	Pneumatic valve block, bare (HAF)
3	045385	1	V1 - 5/2 HT solenoid & spring valve 24v, LH side brush in/out
4	045385	1	V2 - 5/2 HT solenoid & spring valve 24v, LH suction nozzle lift/lower
5	045385	1	V3 - 5/2 HT solenoid & spring valve 24v, LH auto blanking flap open/close
6	045385	1	V4 - 5/2 HT solenoid & spring valve 24v, RH auto blanking flap open/close
7	045385	1	V5 - 5/2 HT solenoid & spring valve 24v, RH suction nozzle open/close
8	045385	1	V6 - 5/2 HT solenoid & spring valve 24v, RH side brush in/out
9	045385	1	V7 - 5/2 HT solenoid & spring valve 24v, central brush (wide sweep) swivel/slew
10	045385	1	V8 - 5/2 HT solenoid & spring valve 24v, rear boom flap
11	045383	1	V9 - 5/2 HT pilot/pilot valve, full pressure side brush
12	045381	1	V9A - 5/2 HT 15mm solenoid 24v, full pressure side brush down
13	045381	1	V9B - 5/2 HT 15mm solenoid 24v, full pressure side brush up
14	045385	1	V10 - 5/2 HT solenoid & spring valve 24v, hopper prop
15	045385	1	V11A - 5/2 HT solenoid & spring valve 24v, side brush pressure up
16	045385	1	V11B - 5/2 HT solenoid & spring valve 24v, side brush pressure down
17	045385	1	V12 - 5/2 HT solenoid & spring valve 24v, central brush (wide sweep) lift/lower
18	045385	1	V13A - 5/2 HT solenoid & spring valve 24v, central brush (wide sweep) up pressure
19	045385	1	V13B - 5/2 HT solenoid & spring valve 24v, central brush (wide sweep) down pressure
20	045385	1	V14 - 5/2 HT solenoid & spring valve 24v, auxiliary brush slide out
21	045385	1	V15 - 5/2 HT solenoid & spring valve 24v, auxiliary brush lower
22	045384	1	V16 - 5/3 HT pilot/pilot valve, air operated rear boom
23	045381	1	V16A - 5/2 HT 15mm solenoid 24v, air operated rear boom raise
24	045381	1	V16B - 5/2 HT 15mm solenoid 24v, air operated rear boom lower
25	045385	1	V17 - 5/2 HT solenoid/spring valve 24v, auxiliary brush swing in/out
26	032710	1	OR1 - OR gate valve
27	045385	A/R	5/2 HT solenoid and spring valve 24v (HAF)
NI	045386	A/R	5/2 HT spring valve body
NI	045388	A/R	Seal kit for Part No. 045386, contains 5 of $\varnothing 4 \times \varnothing 1.5$ o-rings
NI	045383	A/R	5/2 pilot/pilot valve
NI	045389	A/R	Seal kit for Part No. 045383, contains 5 of $\varnothing 4 \times \varnothing 1.5$ & 2 of $\varnothing 2 \times \varnothing 1.5$ o-rings
NI	045384	A/R	5/3 pilot/pilot HT valve
NI	045390	A/R	Seal kit for Pat No. 045384, contains 5 of $\varnothing 4 \times \varnothing 1.5$ & 2 of $\varnothing 2 \times \varnothing 1.5$ o-rings
NI	045387	A/R	Spare pilot solenoid gasket
<i>On back of valve block</i>			
NI	006067	11	1/8" one way breather valve
NI	032709	2	Relief valve

Notes:-

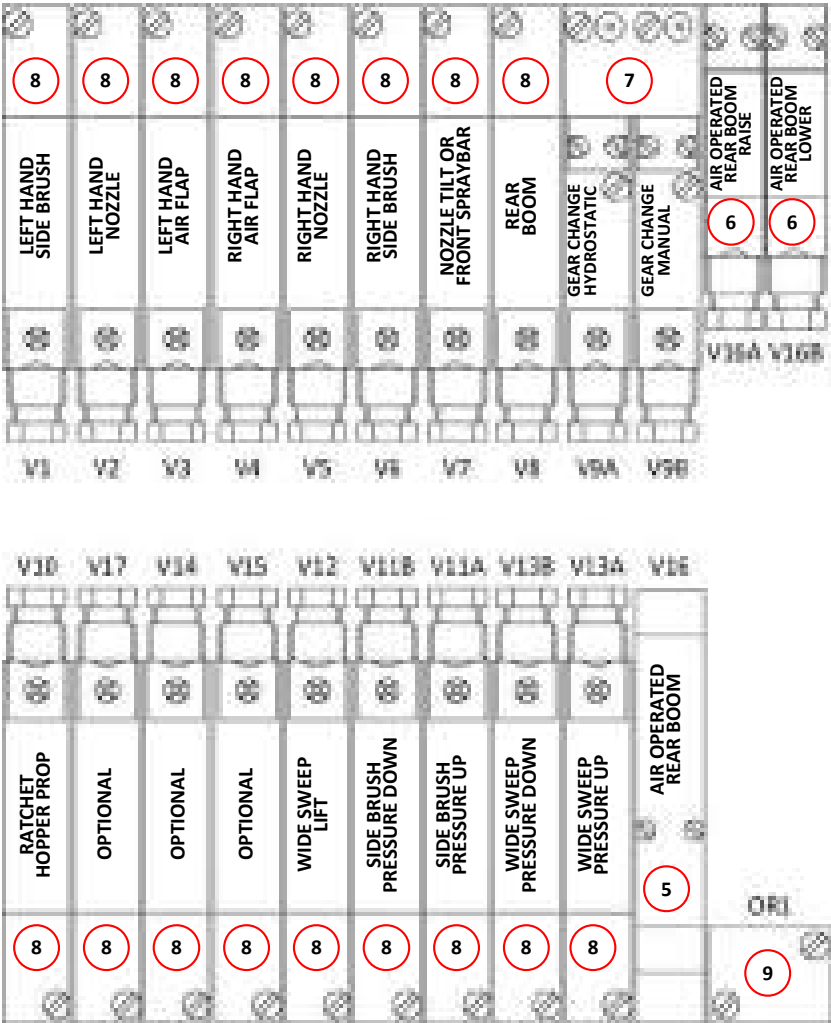
* This valve block is part of Pneumatic Control Cabinet 045292

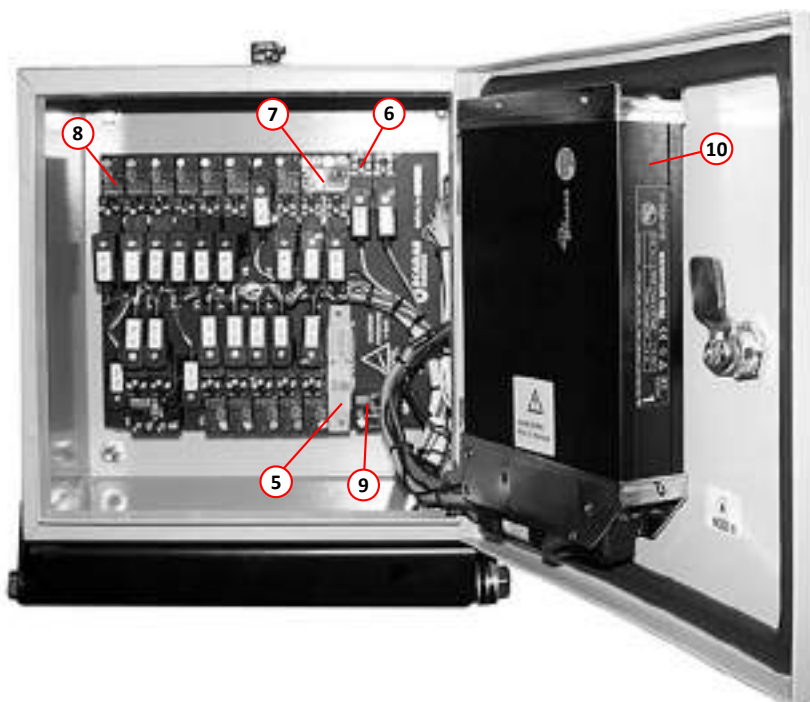
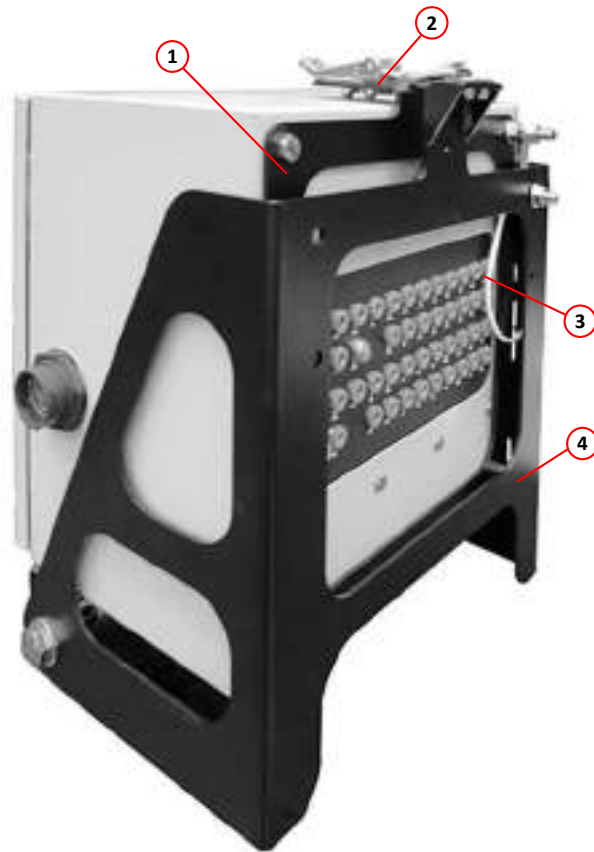


Pneumatic Valve Control Block High Temperature (HAFNER)



Item	Part Number	Quantity	Description
Pneumatic Control Box - Hinged			
1	034113	1	. Support bracket, pneumatic control box
	011011	3	. . Set screw, M8 x 25mm
	011013	1	. . Set screw, M8 x 35mm
	011073	4	. . Nut, M8, Nyloc
2	010509	1	. . Latch
	021841	1	. . Hook, latch
	000161	6	. . . Screw, slotted countersunk, 2BA x 1/2"
	011078	6	. . . Nut, 2BA
3	020711	1	. . . Leash
4	034114	1	. . Hinge bracket
	011052	2	. . . Set screw, M12 x 30mm
	011096	2	. . . Washer, M12
	011077	2	. . . Nut, M12, Nyloc
5	035675	AR	. Valve, 5/3 pilot/pilot, inc. solenoid, rear boom (option)
6	035685	2	. Valve, inc. solenoid
7	035674	1	. Valve, 4/2 pilot/pilot, inc. solenoid
8	035673	AR	. Valve, 4/2 pilot spring, inc. solenoid
9	032710	1	. Valve, OR-gate, wide sweep up/down pressure (option)
NI	035653	AR	. Blanking plate for valve 035673
NI	035671	1	. Blanking plate for valve 035675
NI	035672	1	. Blanking plate for valve 032710
10	036797	1	. Controller, CR0020, (Node 6) Page 554





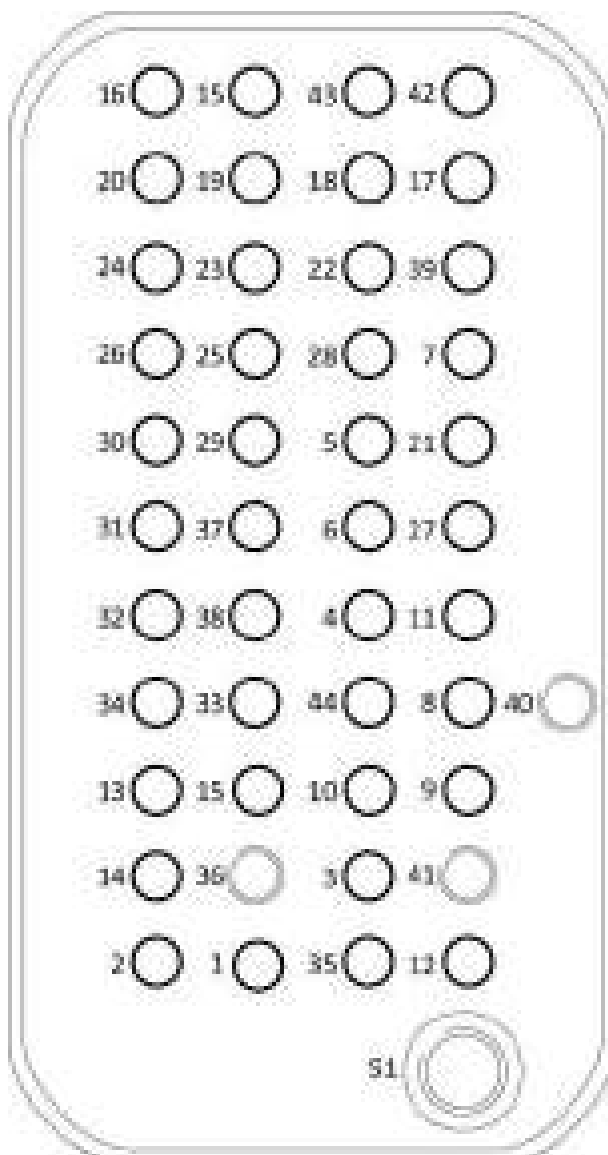
Pneumatic Control Box - Hinged

Table 1: Port Identification & Valve Reference Chart

PORT	FUNCTION	VALVE REF	DEVICE POSITION	CYLINDER POSITION
1	Main feed to P3. Wide sweep pressure UP/DOWN	V13A V13B	N/A	N/A
2	Wide sweep pressure UP	V13A	LIFT	RETRACT
2	Wide sweep LIFT	V12	LIFT	RETRACT
3	Wide sweep pressure DOWN	V13B	DOWN	EXTEND
4	Regulated feed from P3. - Wide sweep pressure UP/DOWN	V13A V13B	N/A	N/A
5	Right-hand side brush pressure DOWN	V11B	DOWN	EXTEND
6	Right-hand side brush pressure UP	V11A	UP	RETRACT
7	Main feed to P4. - Front brush pressure DOWN	V15	DROP	EXTEND
8	Rear boom LOWER	V16 V16B	LIFT	RETRACT
9	Rear boom RAISE	V16 V16A	DOWN	EXTEND
10	Reg. feed from P4. Front brush pressure DOWN	N/A	N/A	N/A
11	Reg. feed from P2. Side brush pressure UP/DOWN	V11A V11B	N/A	N/A
12	Main feed to P2. Side brush pressure UP/DOWN	V11A V11B	N/A	N/A
13	Gear change hydrostatic	V9B	HYDRO	EXTEND
14	Gear change manual	V9A	MANUAL	RETRACT
15	Ratchet Hopper Prop Down	V10	DOWN	EXTEND
16	Ratchet Hopper Prop Up	V10	UP	RETRACT
17	OPTIONAL	V14	N/A	N/A
18	OPTIONAL	V14	N/A	N/A
19	Left-hand side brush OUT	V1	OUT	RETRACT
20	Left-hand side brush IN	V1	IN	EXTEND
21	V11B Left-hand side brush pressure DOWN	V11B	DOWN	EXTEND
22	Left-hand nozzle LIFT	V2	LIFT	RETRACT
23	Left-hand air flap OPEN	V3	OPEN	EXTEND
24	Left-hand air flap CLOSED	V3	CLOSE	RETRACT
25	Right-hand air flap OPEN	V4	OPEN	EXTEND
26	Right-hand air flap CLOSED	V4	CLOSE	RETRACT
27	Left-hand side brush pressure UP	V11A	UP	RETRACT
28	Right-hand nozzle LIFT	V5	LIFT	RETRACT
29	Right-hand side brush OUT	V6	OUT	RETRACT
30	Right-hand side brush IN	V6	IN	EXTEND
31	Left-hand suction nozzle tilt or Front spray bar	V7	UP	EXTEND
32	Left-hand suction nozzle tilt or Front spray bar	V7	DOWN	RETRACT
33	Rear boom flap OPEN	V8	OPEN	RETRACT
34	Rear boom flap CLOSED	V8	CLOSE	EXTEND
35	Mains in (BLACK AIR PIPE)		N/A	N/A
36	Breather		N/A	N/A
37	Right-hand suction nozzle tilt or Front spray bar	V7	UP	EXTEND
38	Right-hand suction nozzle tilt or Front spray bar	V7	DOWN	RETRACT

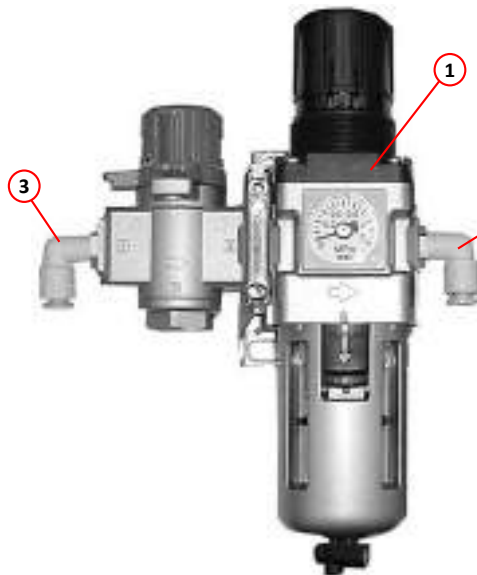
PORT	FUNCTION	VALVE REF	DEVICE POSITION	CYLINDER POSITION
39	OPTIONAL	V15	N/A	N/A
40	Left-hand side brush out, relief valve	N/A	N/A	N/A
41	Right-hand side brush out, relief valve	N/A	N/A	N/A
42	OPTIONAL	V17	N/A	N/A
43	OPTIONAL	V17	N/A	N/A
44	Reg. feed from P4. Front brush press. DOWN	N/A	DOWN	EXTEND

Bulkhead Connectors - Pneumatic Control Box

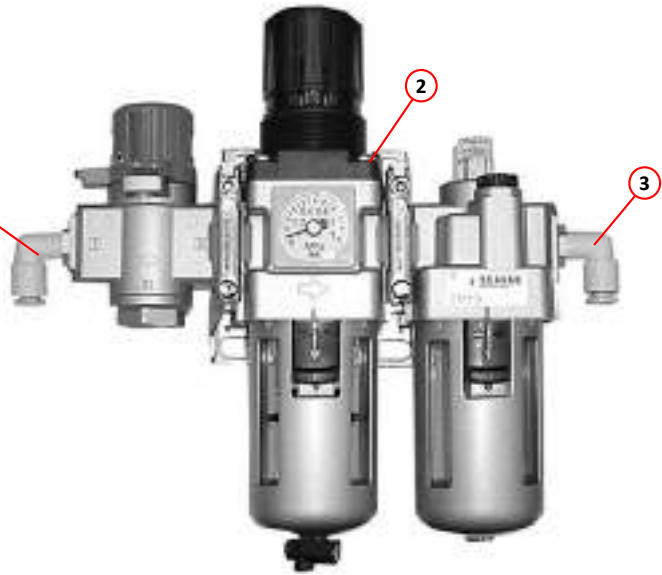


<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Pneumatic Filter/Regulator/Lubricator			
1	032519	1	Pneumatic filter/regulator without lubricator, assembly
2	039753	1	Pneumatic filter/regulator with lubricator, assembly
3	024646	2	. Elbow, push-in, 6mm x $\frac{1}{4}$ " BSP
	011010	4	. Set screw, M8 x 20mm
	011092	8	. Washer, M8
	011073	4	. Nut, M8, Nyloc
NI	005046	50ml	. Lubrication fluid

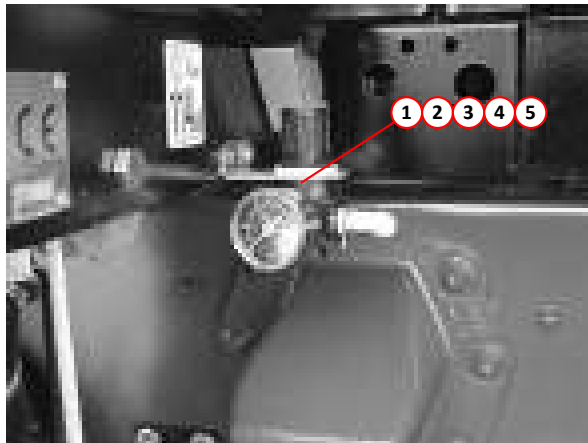
<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Wide Sweep/Side Brush Pressure Regulator and Gauge - (Option)			
1	023242	1	Valve, pressure regulator - side brush
2	023246	1	. Gauge 0 - 10 bar, $\frac{1}{4}$ " BSP
3	023245	1	. Bracket
	011087	2	. . Set screw, M6 x 25mm
	011071	2	. . Nut, M6, Nyloc
4	024646	4	. Elbow, push-in, 6mm to $\frac{1}{8}$ " BSP
5	020735	1	. Connector, straight, $\frac{1}{8}$ " BSP



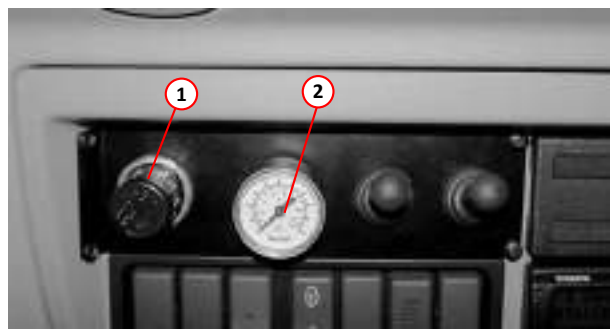
Pneumatic Filter / Regulator



Pneumatic Filter / Regulator / Lubricator



Wide Sweep Pressure Regulator Valve

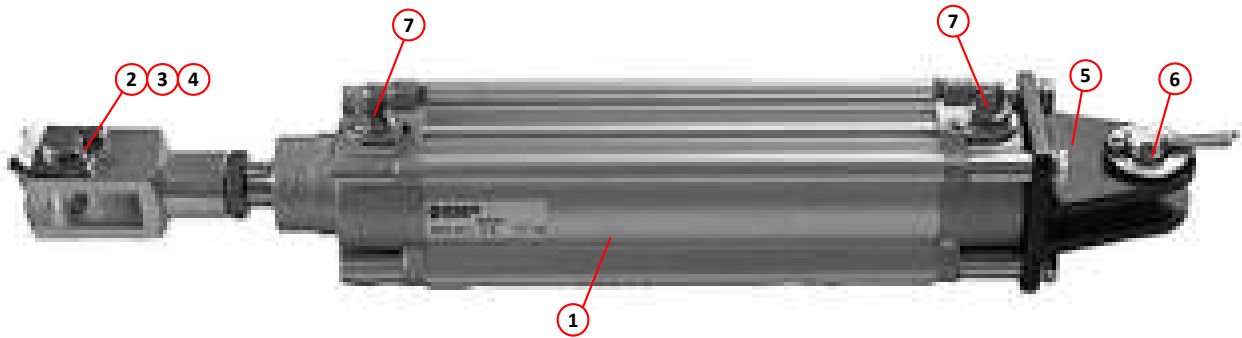


Side Brush Pressure Regulator Valve

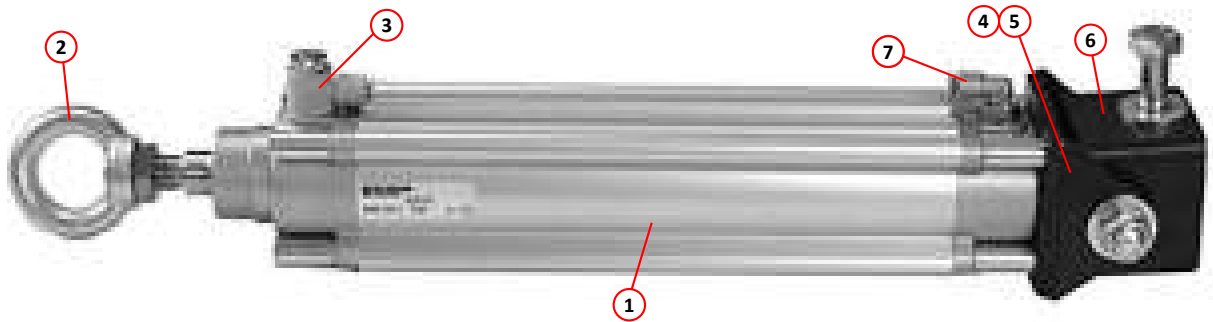
Item	Part Number	Quantity	Description
Cylinder Assembly, Side Brush - Pressure - (Option)			
Cylinder Assembly, Auxiliary Side Brush - Raise/Lower - (Option)			
1	020298	1	Pneumatic cylinder 50 x 160 Page 24, 27
NI	024990	1	. Seal kit, pneumatic cylinder
2	020299	1	. Clevis
3	022673	1	. . Retaining pin, clevis
4	022674	1	. . . Clip, clevis retaining pin
5	020534	1	. Pivot bracket
	011010	4	. . Set screws, M8 x 20mm
	011093	4	. . Washer, M8
6	023123	1	. Retaining pin
	011135	2	. Washer, M16
	011122	2	. Split pin, $\frac{3}{16}$ x $1\frac{1}{2}$
7	023203	2	. Elbow, push-in, M/F, $\frac{1}{4}$ BSP x 6mm tube

Item	Part Number	Quantity	Description
Cylinder Assembly, Suction Nozzle - Raise/Lower			
1	030772	2	Pneumatic cylinder 50 x 200 Page 338
NI		1	. Seal kit, pneumatic cylinder
2	032293	1	. . Ring nut
3	021158	1	. Regulator, flow, push-in, $\frac{1}{4}$ BSP x 6mm tube
4	030777	1	. Pivot bracket
5	000003	4	. . Screw, slotted countersunk, M8 x 20mm
6	030776	1	. Pivot block
	011057	1	. . Bolt, M12 x 100mm
	011096	2	. . Washer, M12
	011077	2	. . Nut, M12, Nyloc
7	023203	2	. Elbow, push-in, M/F, $\frac{1}{4}$ BSP x 6mm tube

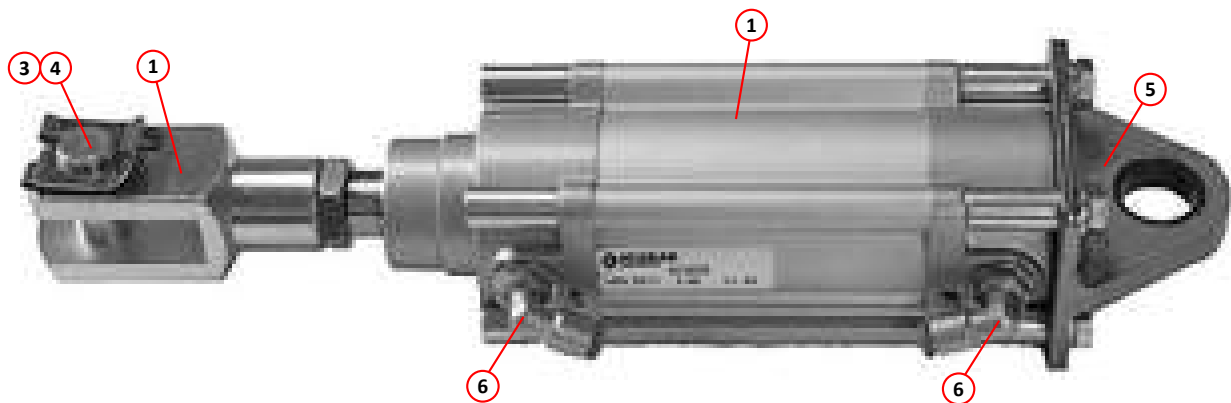
Item	Part Number	Quantity	Description
Cylinder Assembly, Suction Nozzle - Tilt			
1	023608	1	Pneumatic cylinder, 40 x 160 Page 330
2	020299	1	. Clevis
3	022673	1	. . Retaining pin, clevis
4	022674	1	. . . Clip, clevis retaining pin
5	023827	1	. Pivot bracket
	011010	4	. . Bolt, M8 x 20mm
	011093	4	. . Spring washer, M8
6	023203	2	. Elbow, push-in, M/F, $\frac{1}{4}$ BSP x 6mm tube



Side Brush Up / Down Pressure Cylinder
Auxiliary Side Brush Raise / Lower Cylinder



Nozzle Lift Cylinder



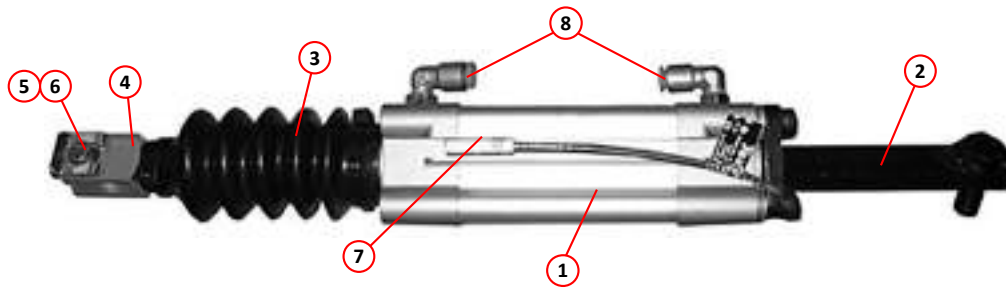
Suction Nozzle Tilt Cylinder

Item	Part Number	Quantity	Description
Cylinder Assembly, Gear Change (Hydrostatic Gearbox)			
1	020287	1	Cylinder, pneumatic, 32 x 50 Page 604
NI	024998	1	. Seal kit, pneumatic cylinder
2	020295	1	. Pivot bracket
	000038	4	. . Screw, socket cap head, M6 x 25mm
	011091	4	. . Spring washer, M6
	011090	12	. . Washer, M6
3	021511	1	. Bellows
4	020291	1	. Clevis
5	026163	1	. . Retaining pin, clevis
6	026164	1	. . . Clip, retaining pin
7	036800	2	. Sensor, magnetic, cylinder position Page 556
8	023203	2	. Elbow, push-in/ M/F, $\frac{1}{4}$ " BSP x 6mm tube

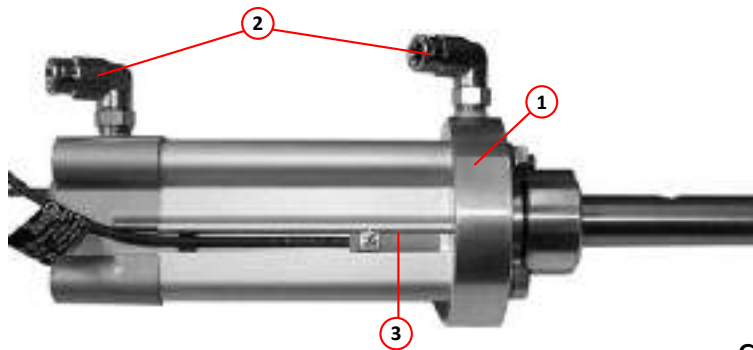
Item	Part Number	Quantity	Description
Cylinder Assembly, Gear Change (UniDrive Gearbox)			
1	026087	1	Pneumatic cylinder, 32 x 40
2	023203	2	. Elbow, push-in, M/F, $\frac{1}{4}$ " BSP x 6mm tube
3	036800	2	. Sensor, magnetic, cylinder position Page 556

Item	Part Number	Quantity	Description
Cylinder Assembly, Gear Change (HP Gearbox Left Side)			
1	035373	1	Pneumatic cylinder, 40 bore x 46 stroke Page 646
NI	023203	2	. Elbow, push-in, M/F, $\frac{1}{4}$ " BSP x 6mm tube

Item	Part Number	Quantity	Description
Cylinder Assembly, Gear Change (HP Gearbox Right Side)			
1	035374	1	Pneumatic cylinder, 40 bore x 52 stroke Page 646
NI	023203	2	. Elbow, push-in, M/F, $\frac{1}{4}$ " BSP x 6mm tube



Gear Change Cylinder (Hydrostatic)



Gear Change Cylinder (UniDrive)



Gear Change Cylinder (HP Gearbox Left Side)



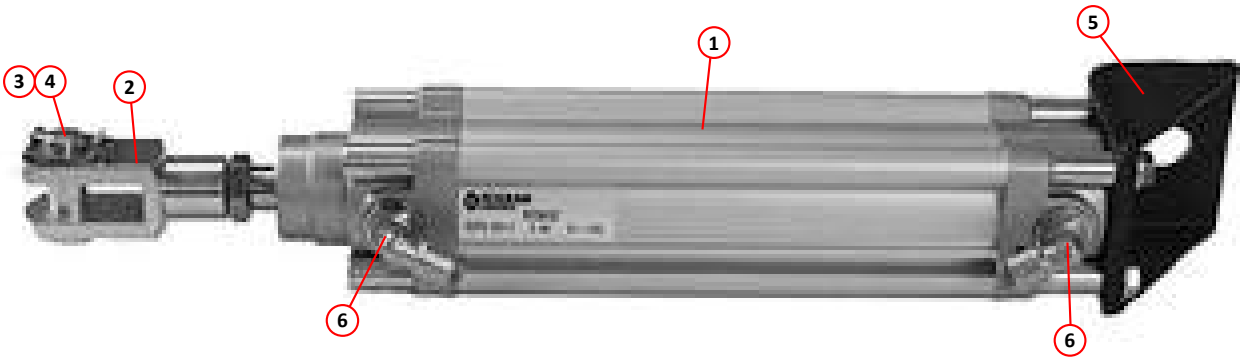
Gear Change Cylinder (HP Gearbox Right Side)

<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Cylinder Assembly, Wide Sweep - Raise/Lower			
1	020602	1	Pneumatic cylinder, 40 x 125
2	014469	1	. Clevis
3	025270	1	. . Retaining pin, clevis
4	023269	1	. . . Clip, clevis retaining pin
5	030532	1	. Pivot bracket
	011067	4	. . Set screw, M6 x 20mm
	011091	4	. . Spring washer, M6
6	023203	2	. Elbow, push-in, M/F, $\frac{1}{4}$ " BSP x 6mm tube

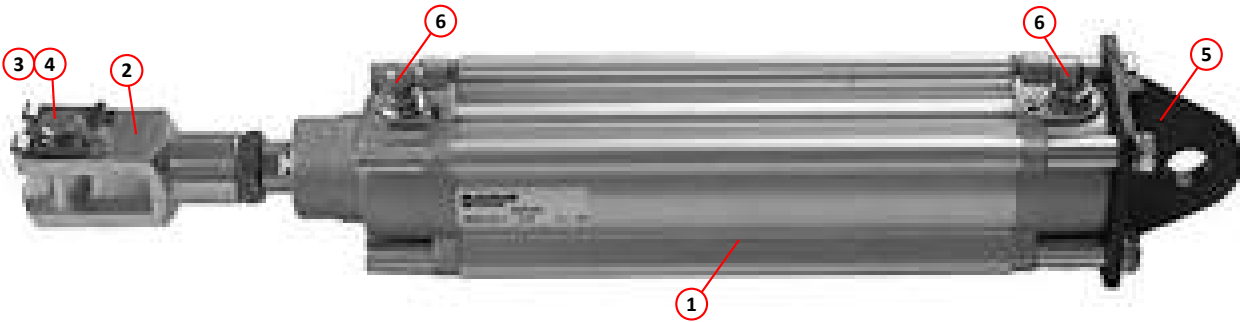
<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Cylinder Assembly, Side Brush - Swing Out			
1	020298	1	Pneumatic cylinder, 50 x 160
2	020299	1	. Clevis
3	022673	1	. . Retaining pin, clevis
4	022674	1	. . . Clip, clevis retaining pin
5	020534	1	. Pivot bracket
	011010	4	. . Set screw, M8 x 20mm
	011093	4	. . Spring washer, M8
6	023203	2	. Elbow, push-in, M/F, $\frac{1}{4}$ " BSP x 6mm tube

<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Cylinder Assembly, Auto Blanking			
1	021467	1	Pneumatic cylinder, 40 x 200
2	014469	1	. Clevis
3	023270	1	. . Retaining pin, clevis
4	023269	1	. . . Clip, clevis retaining pin
5	014457	1	. Pivot bracket
	011087	4	. . Set screw, M6 x 25mm
	011090	12	. . Washer, M6
	011091	4	. . Spring washer, M6
6	021158	1	. Flow regulator
7	023203	1	. Elbow, push-in, M/F, $\frac{1}{4}$ " BSP x 6mm tube

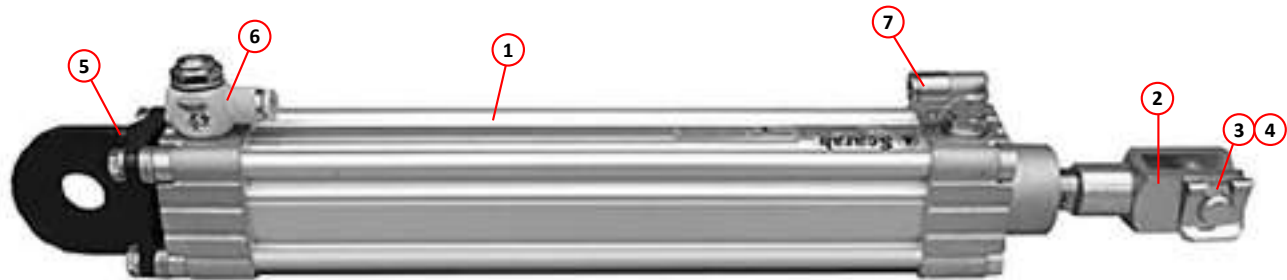
<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Cylinder Assembly, Magnum Plus Rear Door Auto Blanking			
1	020602	1	Pneumatic cylinder, 40 x 125
2	014469	1	. Clevis
3	023270	1	. . Retaining pin, clevis
4	023269	1	. . . Clip, clevis retaining pin
5	014457	1	. Pivot bracket
	011067	4	. . Set screw, M6 x 20mm
	011091	4	. . Spring washer, M6
6	021158	1	. Flow regulator
7	023203	1	. Elbow, push-in, M/F, $\frac{1}{4}$ " BSP x 6mm tube



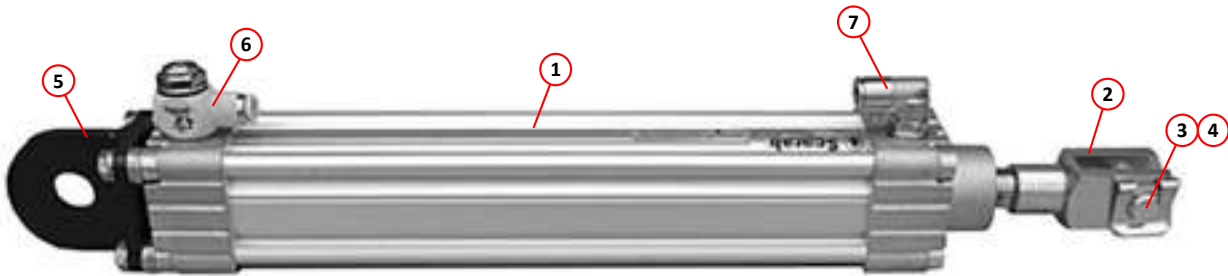
Wide Sweep Raise / Lower Cylinder



Side Brush Swing In / Out Cylinder



Auto Blanking Cylinder



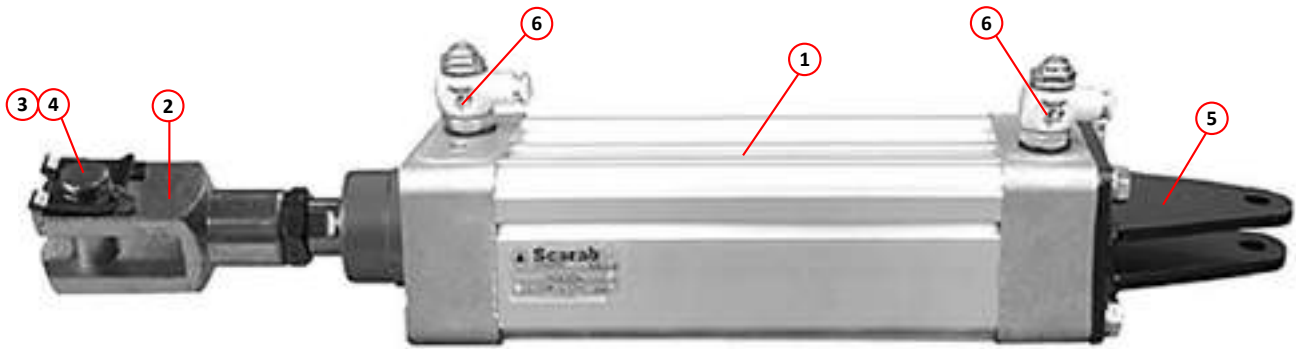
Rear Door Auto Blanking Cylinder

<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Cylinder Assembly, Rear Wander Boom - Raise/Lower			
1	028306	1	Pneumatic cylinder, 63 x 160
2	020299	1	. Clevis
3	022673	1	. . Retaining pin, clevis
4	022674	1	. . . Clip, clevis retaining pin
5	028305	1	. Pivot bracket
	000257	4	. . Set screw, M8 x 25mm
	000265	4	. . Spring washer, M6
6	021158	2	. Flow regulator

<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Cylinder Assembly, Rear Wander Boom - Blanking			
1	021467	1	Pneumatic cylinder, 40 x 200
2	014469	1	. Clevis
3	023270	1	. . Retaining pin, clevis
4	023269	1	. . . Clip, clevis retaining pin
5	030532	1	. Pivot bracket
	011067	4	. . Set screw, M6 x 20mm
	011091	4	. . Spring washer, M6
6	021158	1	. Flow regulator
7	023203	1	. Elbow, push-in, M/F, $\frac{1}{4}$ " BSP x 6mm tube

<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Cylinder Assembly, Automatic Hopper Prop - (Option)			
1	030156	1	Pneumatic cylinder, 40 x 250
2	014469	1	. Clevis
3	023270	1	. . Retaining pin, clevis
4	023269	1	. . . Clip, clevis retaining pin
5	030100	1	. Pivot bracket
	011067	4	. . Set screw, M6 x 20mm
	011091	4	. . Spring washer, M6
NI	022673	1	. . Pin, turned, clevis retaining
NI	022674	1	. . . Safety clip
6	021158	2	. Flow regulator

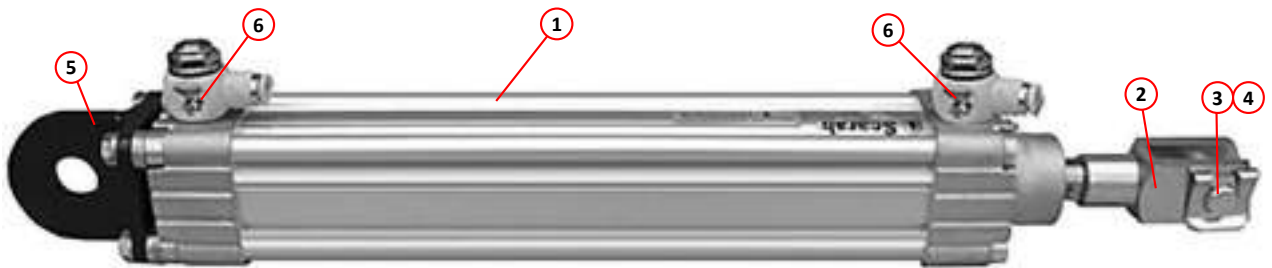
<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Cylinder Assembly, Auxiliary Side Brush - Extend/Retract			
1	026396	1	Pneumatic Cylinder, 63 x 320
2	030859	1	. Pivot bracket
	011010	4	. . Set screw, M8 x 20mm
	011093	4	. . Spring washer, M8
3	023203	2	. Elbow, push-in, M/F, $\frac{1}{4}$ " BSP x 6mm tube



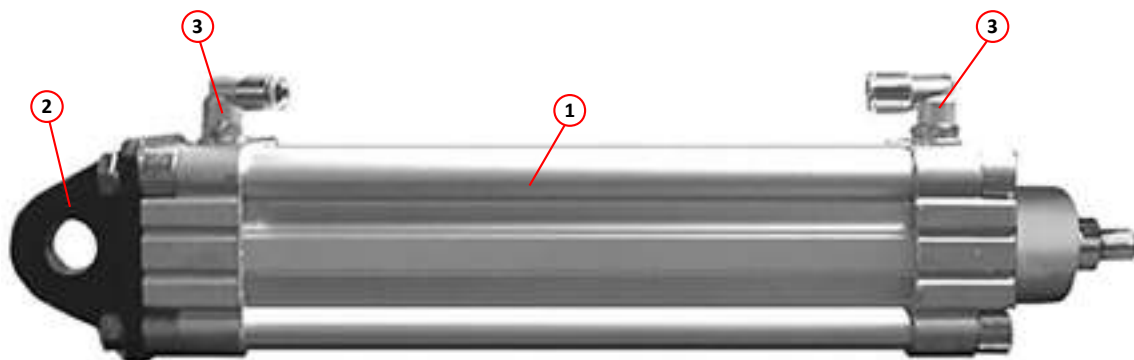
Rear Wander Boom Raise / Lower Cylinder



Rear Wander Boom Blanking Cylinder



Auto Hopper Prop Cylinder



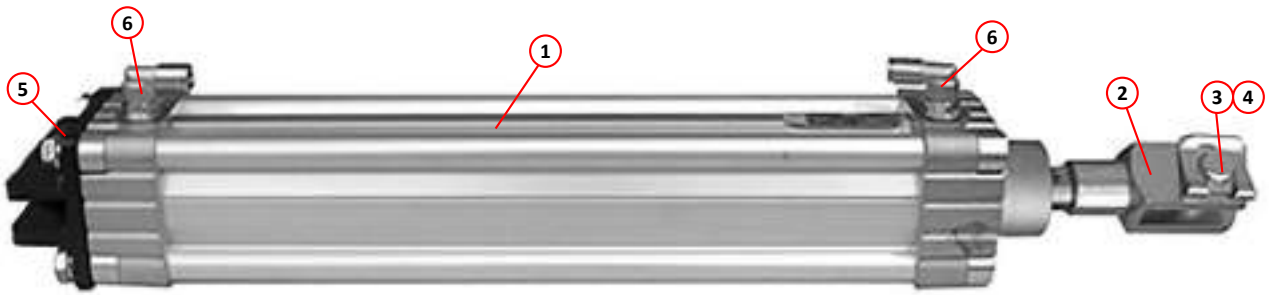
Auxiliary Side Brush Extend / Retract Cylinder

<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Cylinder Assembly, Auxiliary Side Brush - Swing In/Out			
1	021521	1	Pneumatic cylinder, 50 x 250
2	020299	1	. Clevis
3	022673	1	. . Retaining pin, clevis
4	022674	1	. . . Clip, clevis retaining pin
5	030860	1	. Pivot bracket
	000257	4	. . Set screw, M8 x 25mm
	000265	4	. . Spring washer, M8
6	023203	2	. Elbow, push-in, M/F, $\frac{1}{4}$ " BSP x 6mm tube

<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Cylinder Assembly, Front Spray Bar - Raise/Lower			
1	020602	1	Pneumatic cylinder, 40 x 125
2	014469	1	. Clevis
3	023270	1	. . Retaining pin, clevis
4	023269	1	. . . Clip, clevis retaining pin
5	020731	1	. Pivot bracket
	011067	4	. . Screw, socket cap head, M6 x 20mm
	011091	4	. . Spring washer, M6
6	023203	2	. Elbow, push-in, M/F, $\frac{1}{4}$ " BSP x 6mm tube

<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Cylinder Assembly, Ratchet Hopper Prop			
1	040456	1	Pneumatic cylinder, 32 x 50 spring return
2	020291	1	. Clevis
3	026163	1	. . Retaining pin, clevis
4	026164	1	. . . Clip, clevis retaining pin
5	039892	1	. Pivot bracket
	011067	4	. . Set screw, M6 x 20mm
	011091	4	. . Spring washer, M6
6	023203	2	. Elbow, push-in, M/F, $\frac{1}{4}$ " BSP x 6mm tube

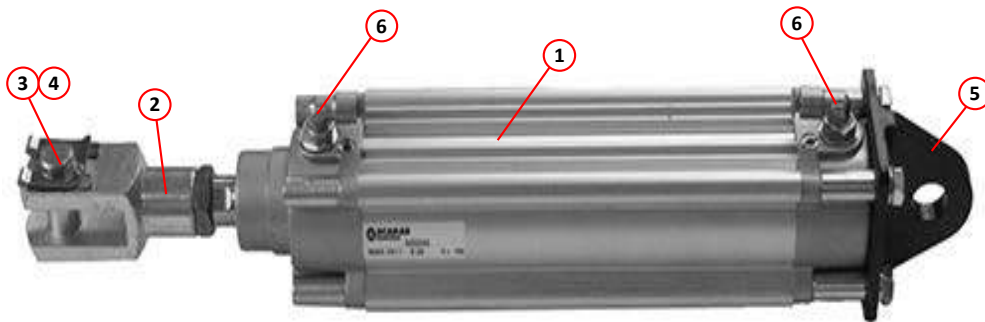
<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Overhead Boom Air-Pressure Switch			
1	028117	1	Switch, air-pressure, 5 bar, N/O



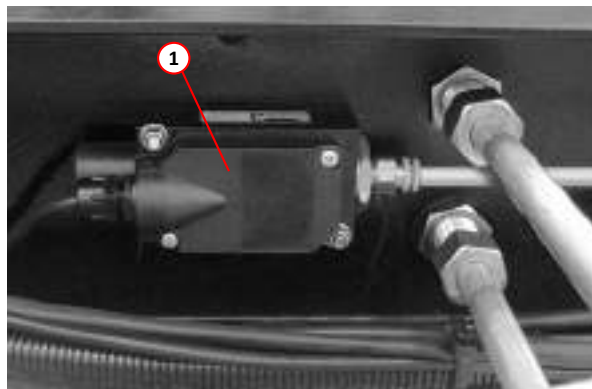
Auxiliary Side Brush In / Out Cylinder



Front Spray Bar Raise / Lower Cylinder



Ratchet Hopper Prop Cylinder



Overhead Boom Air Pressure Switch

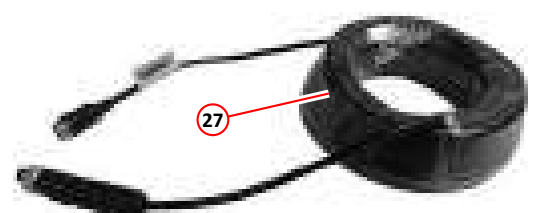
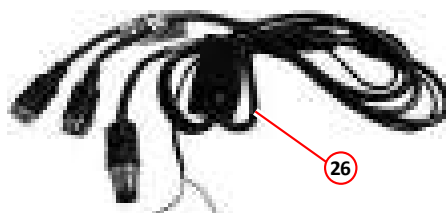
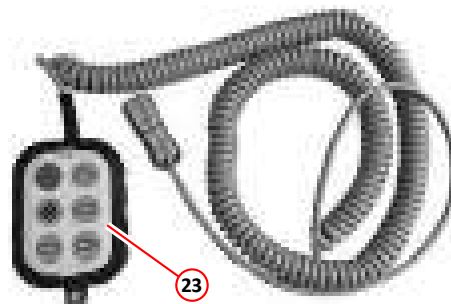
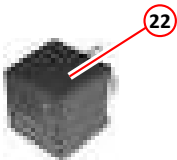
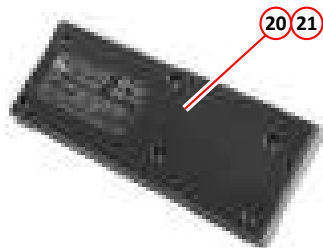
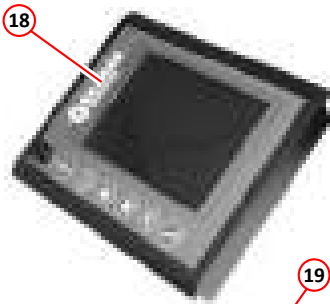
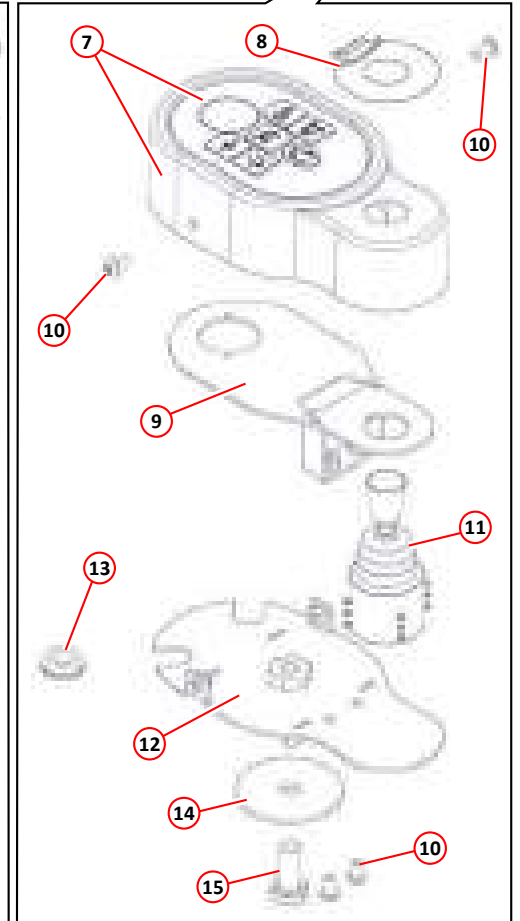
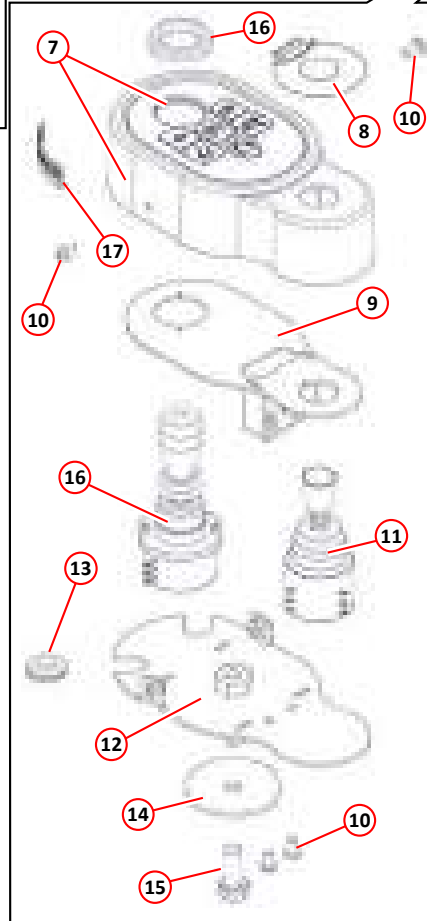
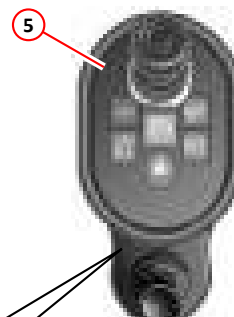
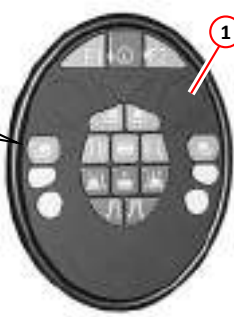
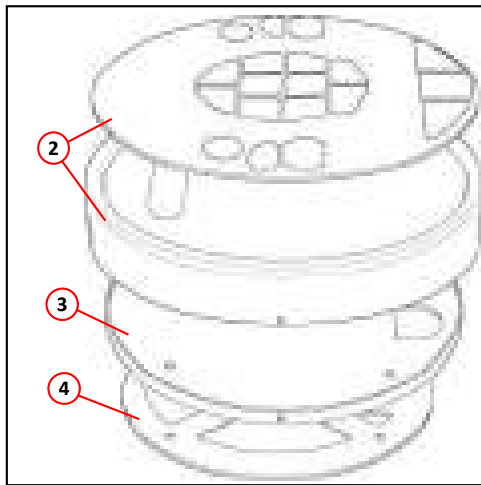
Electrical

<i>Assembly/Description</i>	<i>Page</i>
Electrical Components - Cab	552
Oil Cooler/Hydraulics Gantry - Electrical Items	554
List of Blade Type Fuses	554
Wiring Looms	554
Wiring Looms	556
Electrical Switches and Sensors	556
List of Mini Fuses	556
Additional Electrical Components	556

Item	Part Number	Quantity	Description
Electrical Components - Cab			
1		1	Keypad, main control panel (two speed brushes) Page 656
NI		1	Keypad, main control panel (variable brush speed) Page 658
2	038102 *	1	. Keypad and enclosure assembly (two speed brushes)
NI	037602 *	1	. Keypad and enclosure assembly (variable speed brushes)
3	037053	1	. Enclosure, back
4	037055	1	. . Fixing plate, main control panel
	000304	8	. . . Screw, socket button head, M4 x 10mm
	000134	8	. . . Nut, M4, Nyloc
5	036804	1	Auxiliary controller, left hand, complete, (Hydrostatic) Page 656
5	036805	1	Auxiliary controller, right hand, complete, (Hydrostatic) Page 656
5	037604	1	Auxiliary controller, left hand, complete, (Hydrostatic) (new fan symbol) Page 658
5	037605	1	Auxiliary controller, right hand, complete, (Hydrostatic) (new fan symbol) Page 658
6	036806	1	Auxiliary controller, left hand, complete, (UniDrive) Page 656
6	036807	1	Auxiliary controller, right hand, complete, (UniDrive) Page 656
6	037606	1	Auxiliary controller, left hand, complete, (UniDrive) (new fan symbol) Page 658
6	037607	1	Auxiliary controller, right hand, complete, (UniDrive) (new fan symbol) Page 658
7	038103*	1	Keypad and enclosure assembly
7	037608*	1	Keypad and enclosure assembly, (new fan symbols)
8	039545	1	Sticker, ergo joystick
9	037057	1	Support plate
10	000380	4	Socket dome screw M5 x 10, black
11	036873	1	Ergo joystick
12	037058	1	Back plate
13	046259	1	Blind grommet
14	037064	1	Lock washer
15	011031	1	Set screw M10 x 25
16	036874	1	Drive/neutral/reverse joystick
17	039546	1	Sticker, drive/neutral/reverse
18	042348	1	Display screen, CAN bus v3.0 ((programmed)
19	042360	1	Display screen, CAN bus v3.1 (programmed)
20	042340	1	Controller, CR0505
21	036799 †	3	Node, cabinet module (CR2012)
12	038985 †	3	Node, E9G212, cabinet module (CR2012)
22	014718	2	Relay, 24 V
23	044294	1	Hopper controller, complete includes holster
24	‡	1	Hopper controller (complete)
25	039060	2	LED current source
26	040353	1	Power supply, rear camera
27	040355	1	Cable, rear camera

Notes:-

- * These items are factory bonded as a single unit and must be purchased as such.
- † Contact Scarab Parts Department regarding these nodes.
- ‡ As of March 2016 if you have this controller then please order item 23 instead.



Electrical Components - Cab

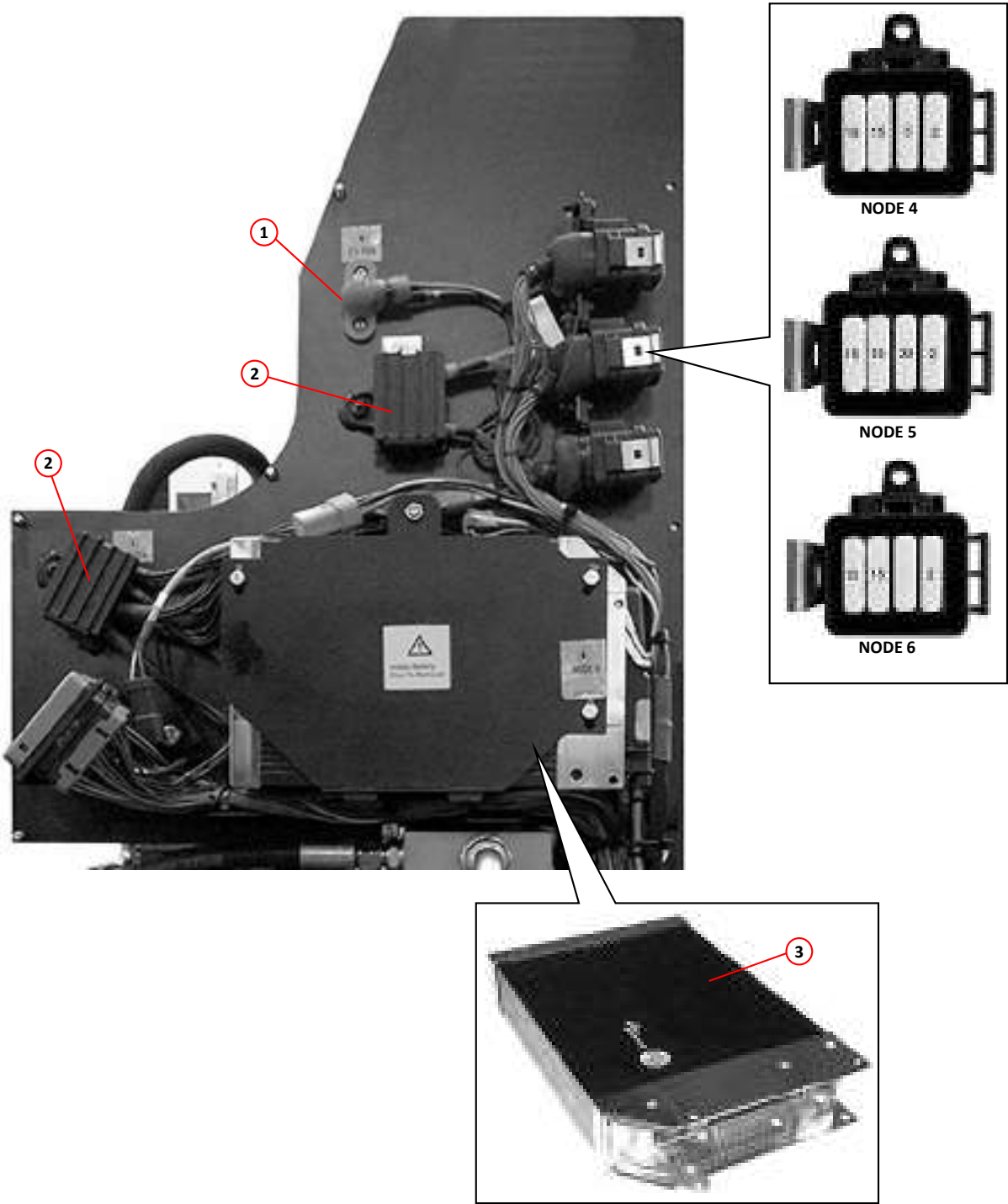
Item	Part Number	Quantity	Description
Oil Cooler/Hydraulics Gantry - Electrical Items			
1	036843	1	Electrical power post, M6, Red
	100103	2	. Screw, pan Pozidriv, M5 x 12mm
2	036844	2	Electrical power connection link, Black
	100103	4	. Screw, pan Pozidriv, M5 x 12mm
3	042336	2	Controller, CR0020 Page 360

Item	Part Number	Quantity	Description
List of Blade Type Fuses - (Not Illustrated)			
	014286		5 Amp
	014287		7.5 Amp
	014288		10 Amp
	014289		15 Amp
	014290		20 Amp
	014291		25 Amp
	014292		30 Amp

Item	Part Number	Quantity	Description
Wiring Looms * - (Not Illustrated)			
	036842	1	Loom, hydraulic oil level Page 462,464
	036800	1	Loom and sensor, gear change cylinder
	036916	1	Loom, display screen, CAN bus 3 Page 656
	040349	1	Loom, display screen, CAN bus 3.1 Page 658
	036666	1	Loom, Node 3, cab Page 656,658
	036912	1	Loom, keypad, main control panel Page 656,658
	036914	1	Loom, keypad, main control panel, power/CAN bus Page 656,658
	036913	1	Loom, keypad, auxiliary control panel Page 656,658
	036915	1	Loom, keypad, auxiliary control panel, power/CAN bus Page 656,658
	037047	1	Loom, hopper controller (in cab)
	037069	1	Loom, hopper remote controller lead with connector
	036920	1	Loom, hopper auto prop (option) Page 364
	037331	1	Loom, brush pressure (option)
	036910	1	Loom, rear lights Page 358
	036907	1	Loom, clutch switch Page 656,658
	036909	1	Loom, load indicator (option)
	036917	1	Loom, variable tilt (option)
	036919	1	Loom, rear boom (option)
	032532	1	Loom, teal hand wash (option)
	036611	1	Loom, Node 4
	036612	1	Loom, Node 5
	036613	1	Loom, Node 6A
	036614	1	Loom, Node 6B
	038016	1	Loom, 3rd fan speed
	038017	1	Loom, 3rd fan speed switch
	036908	1	Loom, Rear boom switch
	036911	1	Loom, Hopper
	036873	1	Loom, Ergo joystick
	040353	1	Loom, power supply, rear camera
	040355	1	Loom, rear camera
	026332	1	Loom, tachometer Page 656

Notes:-

- * If the loom you require is not in the above list, please contact your nearest Scarab Distributor or the Scarab Parts Department, quoting machine model and serial number.



Oil Cooler / Hydraulics Gantry - Electrical Items

Part Number**Description****Wiring Looms * - (Not Illustrated) - (Continued)**

036874	Loom, Forward/Reverse joystick
038123	Loom, Keypad extension
038163	Loom, Door pod, Dual steer (option)
038164	Loom, Twin core, Tyco positive
038165	Loom, Twin core, Tyco earth
038226	Loom, J1939 (Iveco)
038227	Loom, Expansion module (Iveco)

Part Number**Description****Electrical Switches and Sensors - (Not Illustrated)**

036800	Sensor, magnetic, cylinder position	Page 604,646,652,542
036871	Float switch, water tank	Page 414
036872	Pressure switch, hydro braking	Page 482
024039	Switch & level gauge, hydraulic oil tank	Page 462
037248	Toggle switch, on/off/on (option)	Page 660
037249	Toggle switch, on/off (option)	Page 660
032627	Sensor, hopper 'RAISED'	Page 362
025184	Sensor, suction fan speed	Page 386
046738	Gearbox speed sensor, 19mm, DTCO compliant	Page 614,625,637
046739	Gearbox speed sensor, 34mm, DTCO compliant	Page 598,600,652
030158	Switch, proximity (option)	Page 364
023515	Switch, hydraulic oil temperature	Page 466
022224	Sensor, clutch	Page 660
022225	Magnet, clutch sensor	Page 660

Part Number**Description****List of Mini Fuses - (Not Illustrated)**

004495	2 Amp
004392	7.5 Amp
004393	10 Amp
004394	15 Amp
004395	20 Amp
004397	30 Amp

Part Number**Description****Additional Electrical Components - (Not Illustrated)**

037084	Work light, 24V/70W	Page 336
047757	LED Work Light	Page 336,342
014064	Beacon, 24V, (Standard)	Page 370
030773	Rear marker lamp, hopper, (LED)	Page 370
037048	Sounder	Page 660
039660	M12 Plug to M12 Socket Jumper lead 1m	
040354	Rear camera	Page 388
041534	Camera splitter	Page 658
040597	USB memory stick, 2GB	

Notes:-

- * If the loom you require is not listed, please contact your nearest Scarab Distributor or the Scarab Parts Department, quoting machine model and serial number.

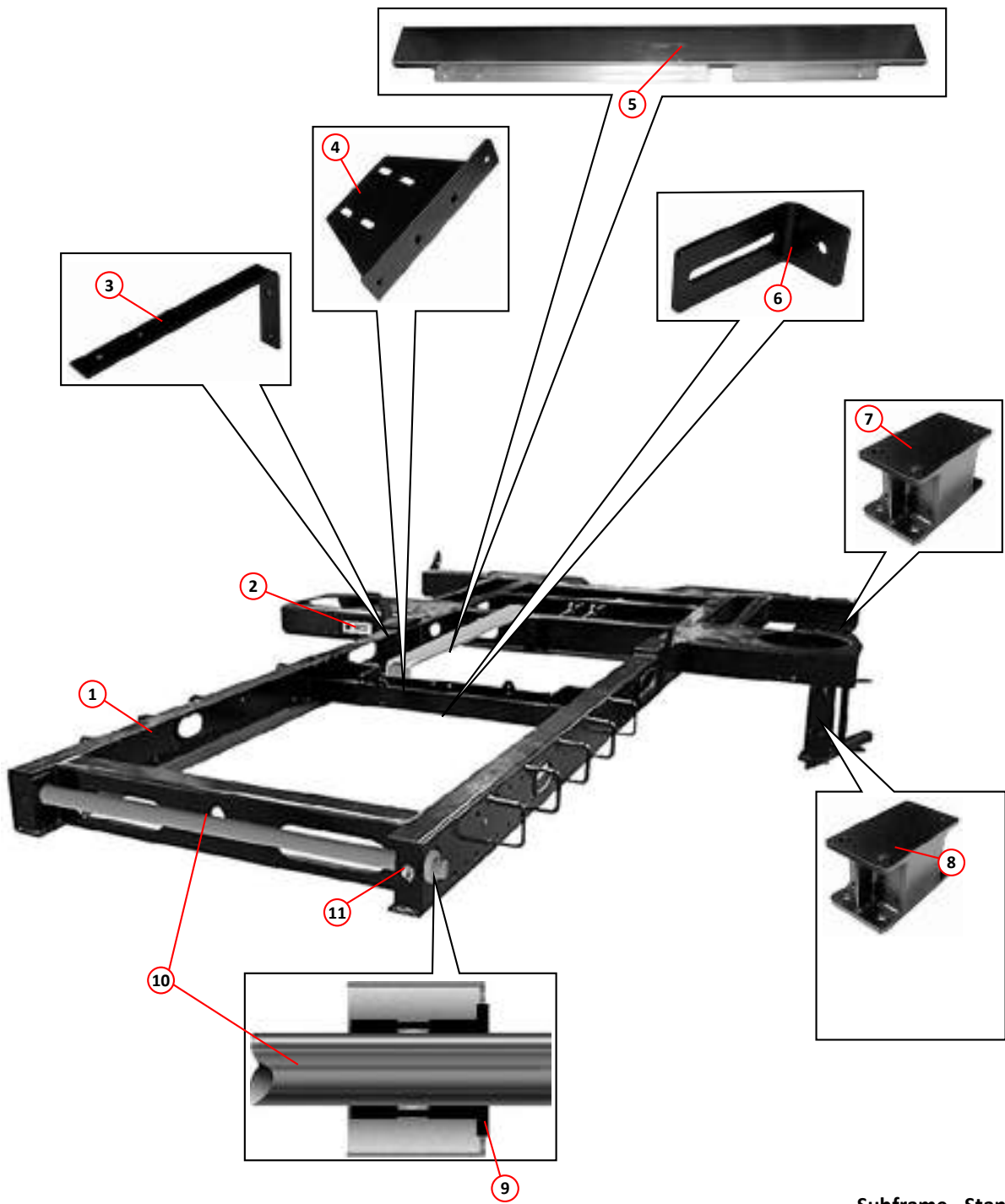
Subframe, Hopper and Related Equipment

<i>Assembly/Description</i>	<i>Page</i>
Subframe Standard Parts	558
Subframe - Additional Standard Scarab Parts - Fitted to Chassis	560
Oil Cooler and Hydraulics Gantry	562
Manual Hopper Safety Prop	564
Hopper Raised Sensor	564
Ratchet Hopper Prop	564
Automatic Hopper Safety Prop Assembly	566
Hopper External Fittings	568
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Hopper External Fittings	572
Hopper External Fittings	574
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Auto Blanking Arrangement	580
Rear Door Components	582
Rear Door Auto Blanking Assembly	584
Rear Door Hinge and Ram Arrangement	584
Rear Door Locking Arrangement	586
Suction Fan Arrangement	588
Additional Hopper/Rear Door Components	590
Rear Door - Spare Wheel Carrier - Magnum	592
Rear Door - Spare Wheel Carrier - Merlin	592
Chassis Mounted - Spare Wheel Carrier	594

Item	Part Number	Quantity	Description
Subframe Standard Parts			
1	024978	1	Subframe (Merlin)
NI	024246	1	Subframe (Magnum)
NI	032224	1	Subframe (Merlin XP)
2	021716	1	. Serial number & CE mark plate
3	032979	1	. Support, pipe, front (Merlin XP)
NI	026239	1	. Support, pipe, front
	011087	2	. . Set screw, M6 x 25mm
	011090	2	. . Washer, M6
	011071	2	. . Nut, M6, Nyloc
4	028010	1	. Support, pipe cover
	011067	2	. . Set screw, M6 x 20mm
	011099	2	. . Washer, repair, $\varnothing 1 \frac{1}{4}$ " ID
	011071	2	. . Nut, M6, Nyloc
5	028127	1	. Pipe cover (Merlin)
NI	028009	1	. Pipe cover (Magnum)
NI	040681	1	. Pipe cover (Magnum with ratchet hopper prop)
6	030487	1	. Support, pipe, rear
	011067	1	. . Set screw, M6 x 20mm
	011071	1	. . Washer, M6
	011071	1	. . Nut, M6, Nyloc
7	031381 *	AR	. Stub, subframe leg, 100mm long (Merlin)
NI	031355 *	AR	. Stub, subframe leg, 120mm long (Merlin)
NI	030316 *	AR	. Stub, subframe leg, 180mm long (Merlin)
NI	031693 *	AR	. Stub, subframe leg, 220mm long (Merlin)
NI	031415 *	AR	. Stub, subframe leg, 95mm long
NI	031416 *	AR	. Stub, subframe leg, 165mm long
	011052	4	. . Set screw, M12 x 30mm (Per stub)
	011077	4	. . Nut, M12, Nyloc, (Per stub)
8	027133 *	1	. Subframe leg, RH, (A) (Merlin)
NI	027132 *	1	. Subframe leg, LH, (B) (Merlin)
NI	027134 *	1	. Subframe leg, LH, (C) (Merlin)
NI	027134 *	1	. Subframe leg, RH, (D) (Merlin)
	000047	4	. . Bolt, M12 x 140mm (Per leg)
	011077	4	. . Nut, M12, Nyloc (Per leg)
NI	024247 *	1	. Subframe leg, LH, (J) (Magnum)
NI	024248 *	1	. Subframe leg, RH, (K) (Magnum)
NI	027753 *	1	. Subframe leg, LH, Hi-lift, (P) (Magnum)
NI	027754 *	1	. Subframe leg, RH, Hi-lift, (Q) (Magnum)
NI	030152 *	1	. Subframe leg, LH, (R) (Magnum)
NI	030153 *	1	. Subframe leg, RH, (S) (Magnum)
NI	030924 *	1	. Subframe leg, LH, (T) (Magnum)
NI	030925 *	1	. Subframe leg, RH, (U) (Magnum)
NI	030154 *	1	. Subframe leg, LH (Magnum) (8000/8500 only)
NI	030155 *	1	. Subframe leg, RH (Magnum) (8000/8500 only)
	011052	4	. . Set screw, M12 x 30mm (Magnum)
	011077	4	. . Nut, M12, Nyloc (Magnum)
9	020336	2	. Bush, hopper hinge pin
10	013065	1	. . Hopper hinge pin
	000096	2	. . . Screw, socket cap head, M8 x 40mm
	011073	2	. . . Nut, M8, Nyloc
11	010901	2	. Grease point, $\frac{1}{8}$ " BSP x 90°

Notes:-

- * The type of the subframe/stub and leg are dependent on many factors. Please contact the Scarab Parts Department quoting your machine serial number before ordering any parts.

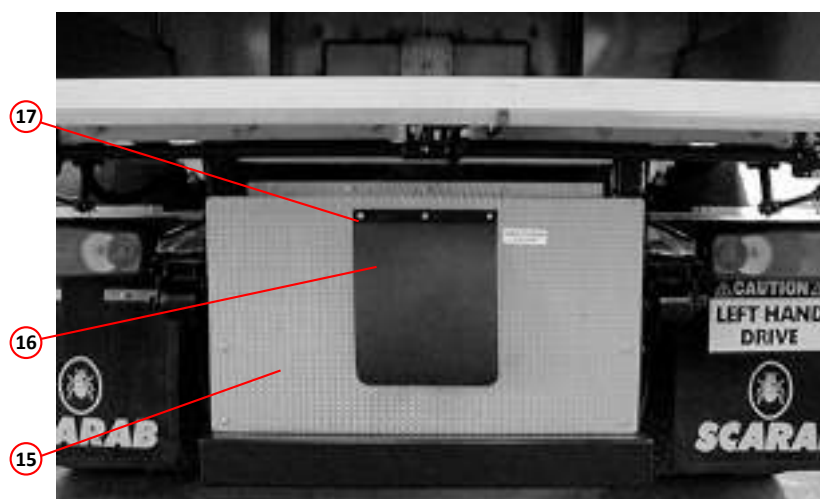
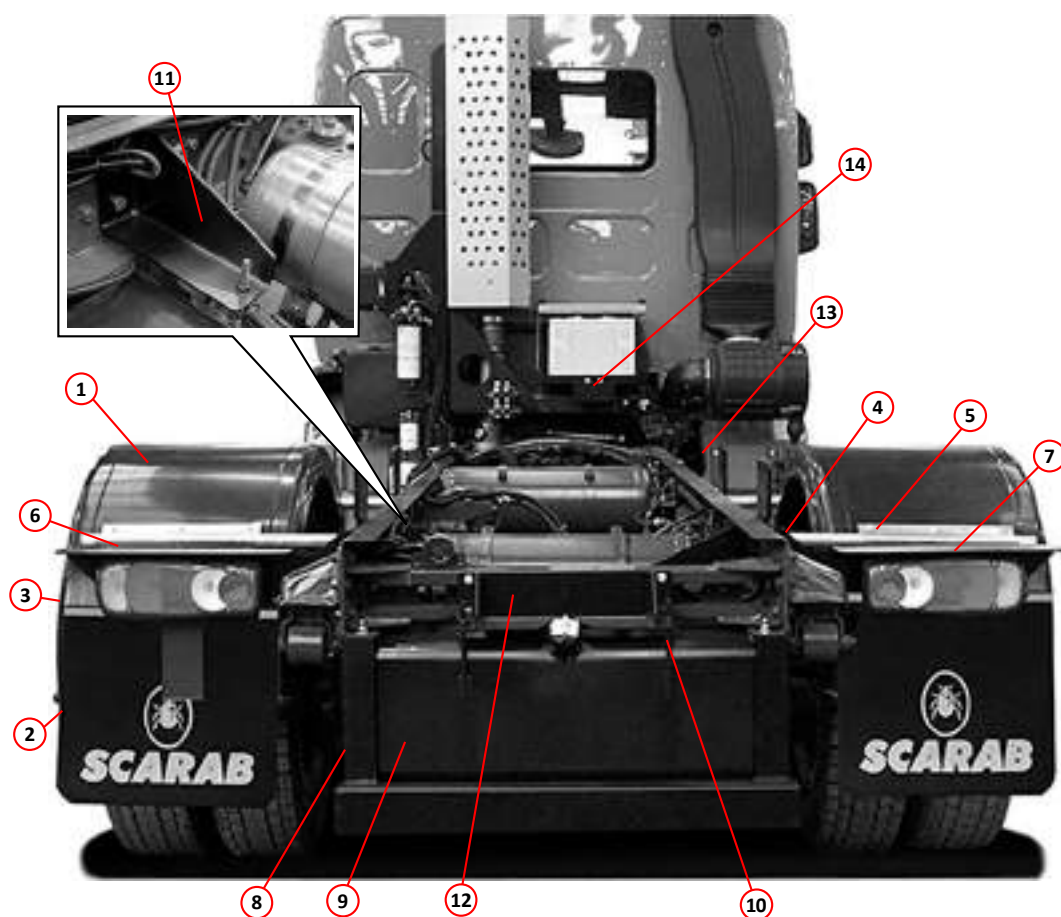


Subframe - Standard Parts

Item	Part Number	Quantity	Description
Subframe - Additional Standard Scarab Parts - Fitted to Chassis			
1	*	1	Mudguard (Per side)
2	024992	1	. Mud flap (Per side)
NI	030140	1	. Mud flap, wide (Per side)
3	024993	1	. . Clamp, mud flap (Per flap)
NI	030187	1	. . Clamp, mud flap, wide (Per flap)
	011011	5	. . . Set screw, M8 x 25mm (Per clamp)
	011073	5	. . . Nut, M8, Nyloc (Per clamp)
4	013403	2	. Bracket, mudguard, straight (Per mudguard)
NI	020836	2	. Bracket, mudguard, cranked (Per mudguard)
	011032	3	. . Set screw, M10 x 30mm (Per bracket)
	011075	3	. . Nut, M10, Nyloc (Per bracket)
5	013404	2	. . Stay, mudguard (Per mudguard)
NI	012954	2	. . Stay backing plate (Per mudguard)
	011010	6	. . . Set screw, M8 x 20mm (Per stay)
	011073	6	. . . Nut, M8, Nyloc (Per stay)
6	*	1	. Bracket, rear lights LH
7	*	1	. Bracket, rear lights RH
	011083	2	. . Set screw, M12 x 1.25 pitch x 35mm
	011086	2	. . Nut, M12 x 1.25 pitch (Per bracket)
NI	036910	1	Loom, rear lights Page 554
8	*	1	Bracket, rear under-run
9	*	1	Fuel tank
10	*	2	. Strap, fuel tank
	011075	4	. . Nut, M10, Nyloc
11	*	1	. Bracket, front, fuel tank, LH
NI	*	1	. Bracket, front, fuel tank, RH
12	*	1	. Bracket, rear, fuel tank
13	*	AR	Bracket, connecting, chassis/subframe
14	*	1	Support frame, Battery
15	*	1	Rear cover, fuel tank
16	026709	1	Cover, Rubber, fuel filler, narrow
17	014741	1	. Clamp plate, fuel filler cover, narrow
	011087	3	. . Set screw, M6 x 25mm
	011071	3	. . Nut, M6, Nyloc
NI	032484	1	Cover, Rubber, fuel filler, wide
NI	032483	1	. Clamp plate, fuel filler cover, wide
	011087	3	. . Set screw, M6 x 25mm
	011071	3	. . Nut, M6, Nyloc
NI	*	1	. Fuel tank sender
NI	*	1	. . Gasket, fuel tank sender
NI	*	1	. Fuel filler cap

Notes:-

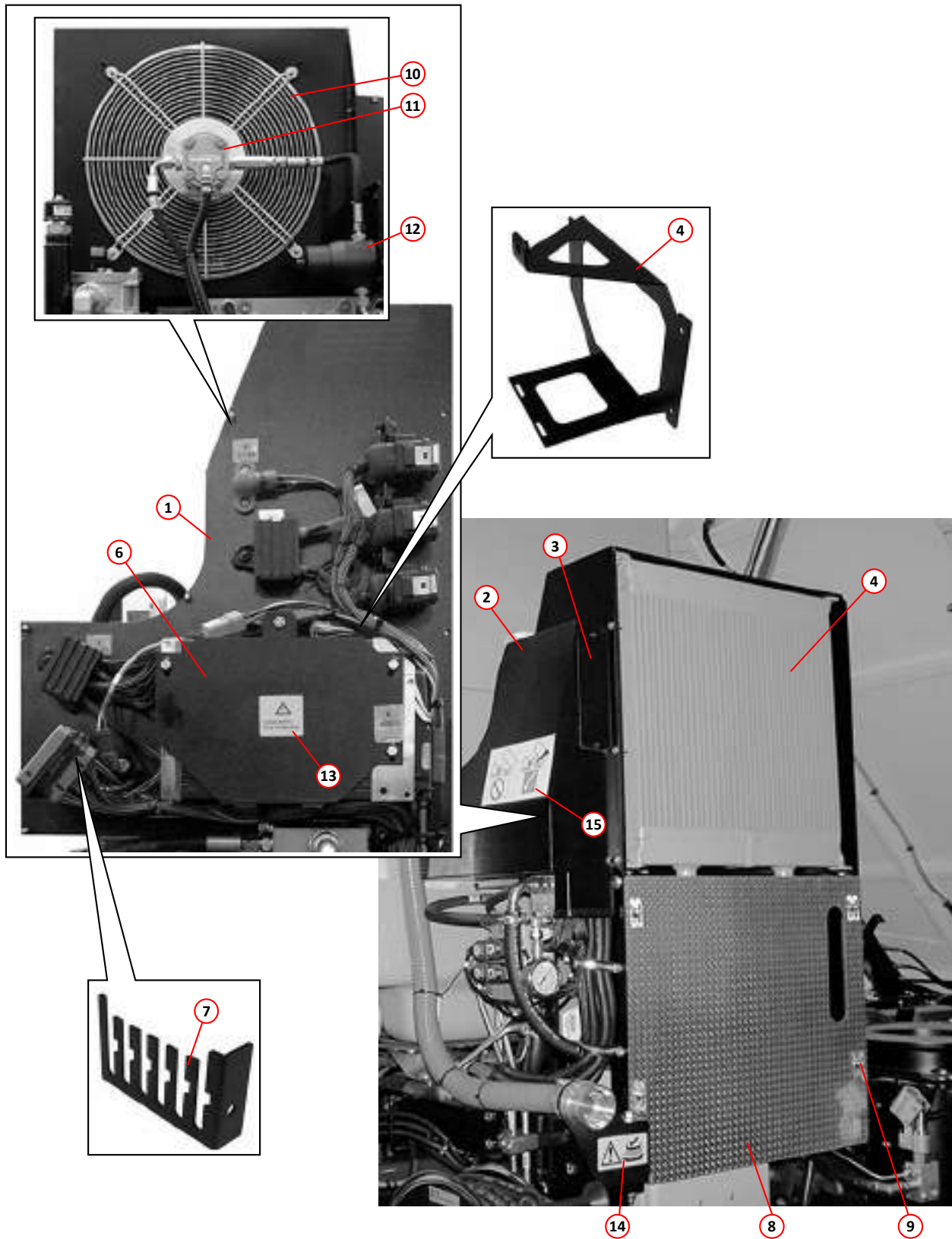
- * These items are chassis specific. When ordering, contact Scarab Parts Department, quoting machine serial number and chassis type.



i The photographs shown above are of a DAF chassis, other chassis configurations may differ.

Additional Standard Scarab Parts Fitted to Chassis

Item	Part Number	Quantity	Description
Oil Cooler and Hydraulics Gantry			
1	037086	1	Oil cooler frame Page 458
	011407	2	. . Bolt, M10 x 120mm
	011031	2	. . Set screw, M10 x 25mm
	011075	4	. . Nut, M10, Nyloc
NI	024838	1	. . Oil cooler leg
	011407	2	. . Bolt, M10 x 120mm
	011031	1	. . Set screw, M10 x 25mm
	011075	3	. . Nut, M10, Nyloc
2	037096	1	. . Node cover
	000402	7	. . Screw, Pozidrive, M5 x 20mm
	000155	7	. . Nut, M5, Nyloc
3	037097	1	. . Fuse cover
4	031732	1	. . Oil cooler Page 460
5	037203	1	. . Bracket, node carrier
	000155	3	. . Nut, M5, Nyloc
6	037204	1	. . Cover, node carrier
	000097	4	. . Set screw, M5 x 12mm
	011067	1	. . Set screw, M6 x 20mm
	011071	1	. . Nut, M6, Nyloc
7	037198	1	. . Bracket, splice saver
	011010	1	. . Set screw, M8 x 20mm
8	025383	1	. . Cover, hydraulic tank & valves
9	012253	4	. . Antiluce, Small
10	020883	1	. . Bracket, fan mounting
	000020	4	. . Set screw, M6 x 30mm
	011071	4	. . Nut, M6, Nyloc
	011099	4	. . Washer, repair, M6
	023504	4	. . Anti-vibration ring
	023505	4	. . Anti-vibration bush
11	028752	1	. . Motor, hydraulic, cooler fan Page 460
NI		1	. . Fan, oil cooler
12	025103	1	. . Filter, hydraulic, high pressure Page 502
NI	036797	2	. . Controller CR0020 Page 554
13	036170	1	. . Disconnect battery, caution label Page 664
14	022383	1	. . Brush rotating, warning label Page 664
15	022384	1	. . Hopper prop deployment, warning label Page 664

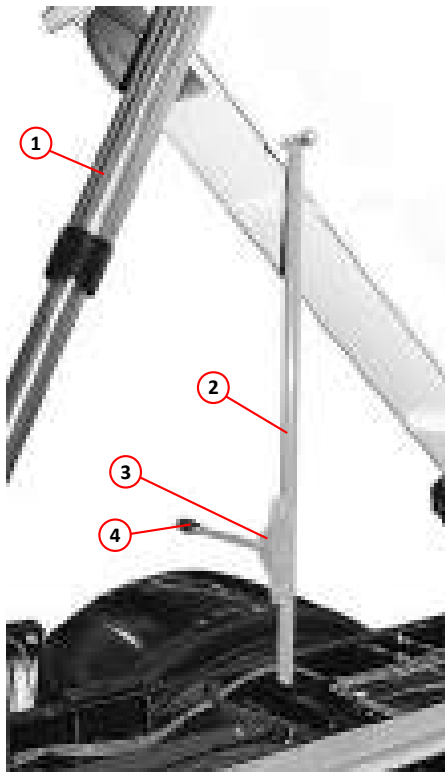


Oil Cooler and Hydraulics Gantry

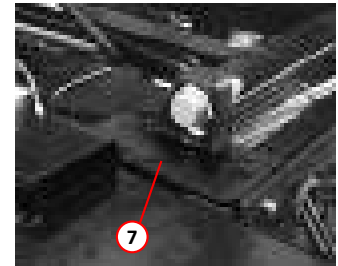
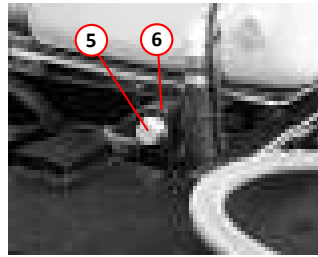
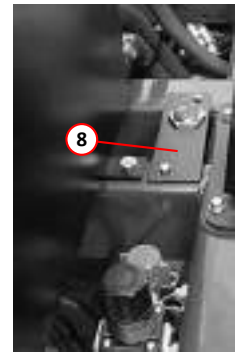
Item	Part Number	Quantity	Description
			Manual Hopper Safety Prop
1	024249	1	Hopper lift ram, dual stage Page 512
NI	039677	1	Hopper Prop, (Merlin)
2	039676	1	Hopper Prop, (Magnum)
	011083	1	. Bolt, 1 „ UNF x 6
	011062	1	. . Nut, 1 „ UNF, Nyloc
3	039675	1	. Hopper prop handle
	011032	2	. . Set screw, M10 x 30mm
	011075	2	. . . Nut, M10, Nyloc
4	039680	1	. . Hopper prop handle grip

Item	Part Number	Quantity	Description
			Hopper Raised Sensor
5	032627	1	. Sensor, 'HOPPER-RAISED' Page 556
6	039659	1	. . Bracket, hopper raised sensor (Merlin/Merlin XP)
7	039673	1	. . Bracket, hopper raised sensor (Magnum/Magnum+)
8	032908	1	. . Bracket, hopper raised sensor (vertical) (Merlin)
NI	032909	1	. . Bracket, hopper raised sensor (vertical) (Magnum)
	011067	2	. . . Set screw, M6 x 20mm
	011091	2	 Washer, spring, M6
	011071	2	 Nut, M6, Nyloc

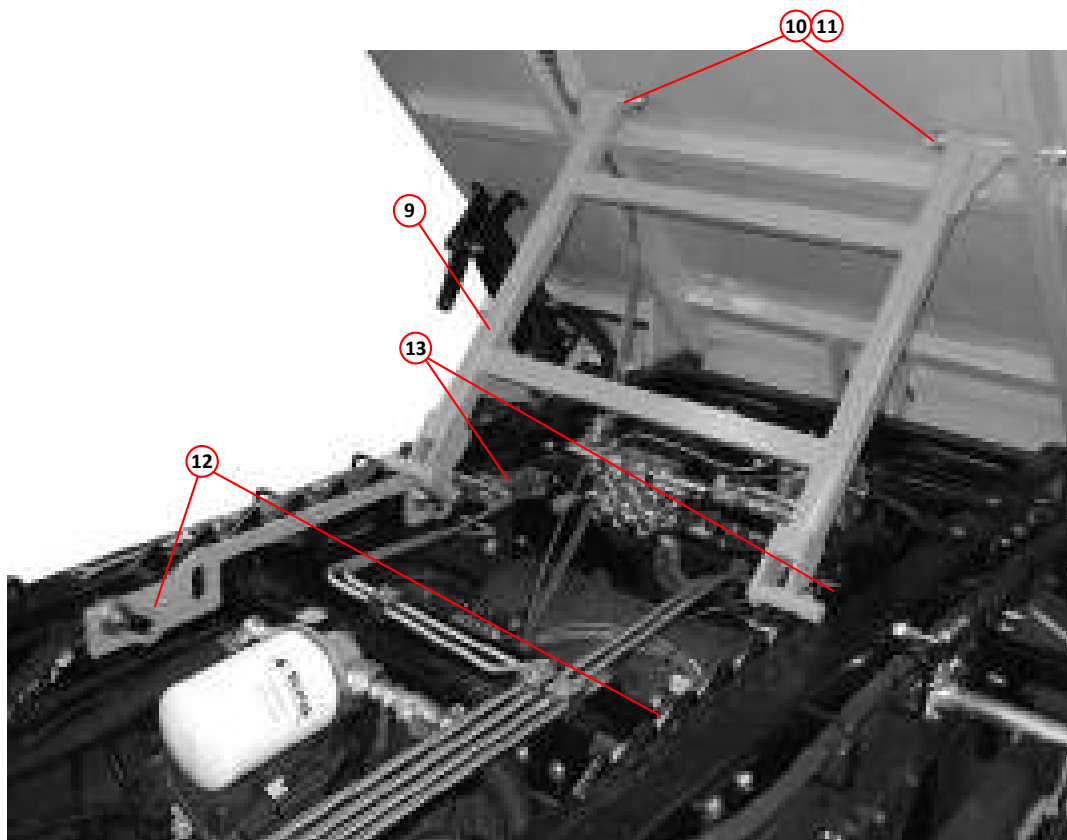
Item	Part Number	Quantity	Description
			Ratchet Hopper Prop
9	039901	1	Hopper Prop
10	040134	2	. Prop hinge pin
11	013053	2	. . Linch pin
12	039899	2	Lifting plate
	011094	4	. Washer, M10 special
	011075	2	. . Nut, M10, Nyloc
13	040456	2	Cylinder, pneumatic, 32 x 50 spring return Page 548
	011407	2	. Bolt, M10 x 120mm
	011094	2	. . Washer, M10
	011075	2	. . . Nut, M10, Nyloc



Manual Hopper Prop

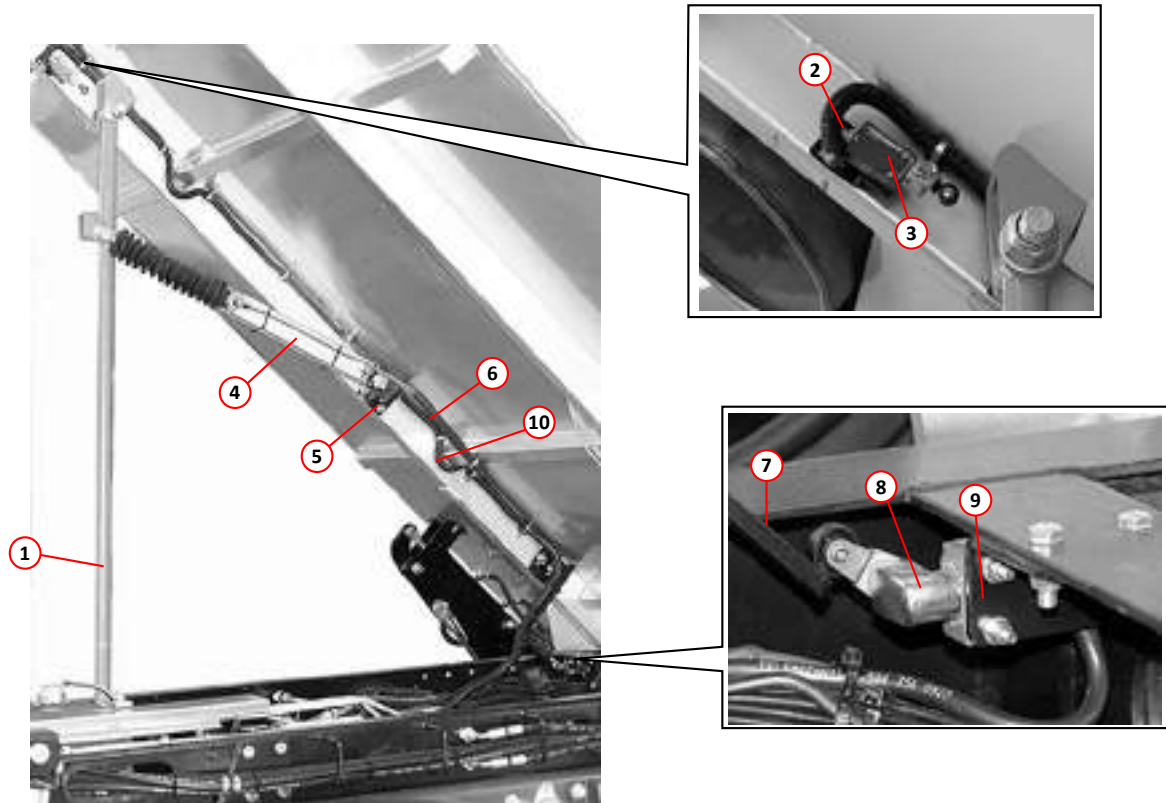


Hopper Raised Sensor



Ratchet Hopper Prop

Item	Part Number	Quantity	Description
Automatic Hopper Safety Prop Assembly - (Option)			
1	030380	1	Hopper Prop (MERLIN)
1	030099	1	Hopper Prop (MAGNUM)
	000316	1	. Bolt, 1" UNF x 7
	011062	1	. Nut, 1" UNF, Nyloc
2	030379	1	. Mounting bracket, proximity switch (MERLIN)
NI	030226	1	. Mounting, bracket, proximity switch (MAGNUM)
	000191	2	. . Screw, socket cap head, M4 x 25mm
	000134	2	. . Nut, M4, Nyloc
3	030158	1	. . Switch, proximity, upper
4	030156	1	. Cylinder, pneumatic, 40 x 250 Page 544
5	030377	1	. . Ram mounting bracket, catch pocket (MERLIN)
NI	030101	1	. . Ram mounting bracket, catch pocket (MAGNUM)
	011415	2	. . . Bolt, M8 x 80mm
	011073	2	. . . Nut, M8, Nyloc
6	024650	AR	. . Air pipe
7	030378	1	. Proximity actuator bracket (MERLIN)
NI	030174	1	. Proximity actuator bracket (MAGNUM)
	000221	2	. . Bolt, M6 x 80mm
	011071	2	. . Nut, M6, Nyloc
8	030158	1	. Switch, proximity, lower Page 556
9	030159	1	. . Mounting bracket, proximity switch
	011067	2	. . . Set screw, M6 x 20mm
	011071	2	. . . Nut, M6, Nyloc
	000191	2	. . . Screw, socket cap head, M4 x 25mm
	000134	2	. . . Nut, M4, Nyloc
10	036920	1	. Loom, hopper, auto prop Page 554



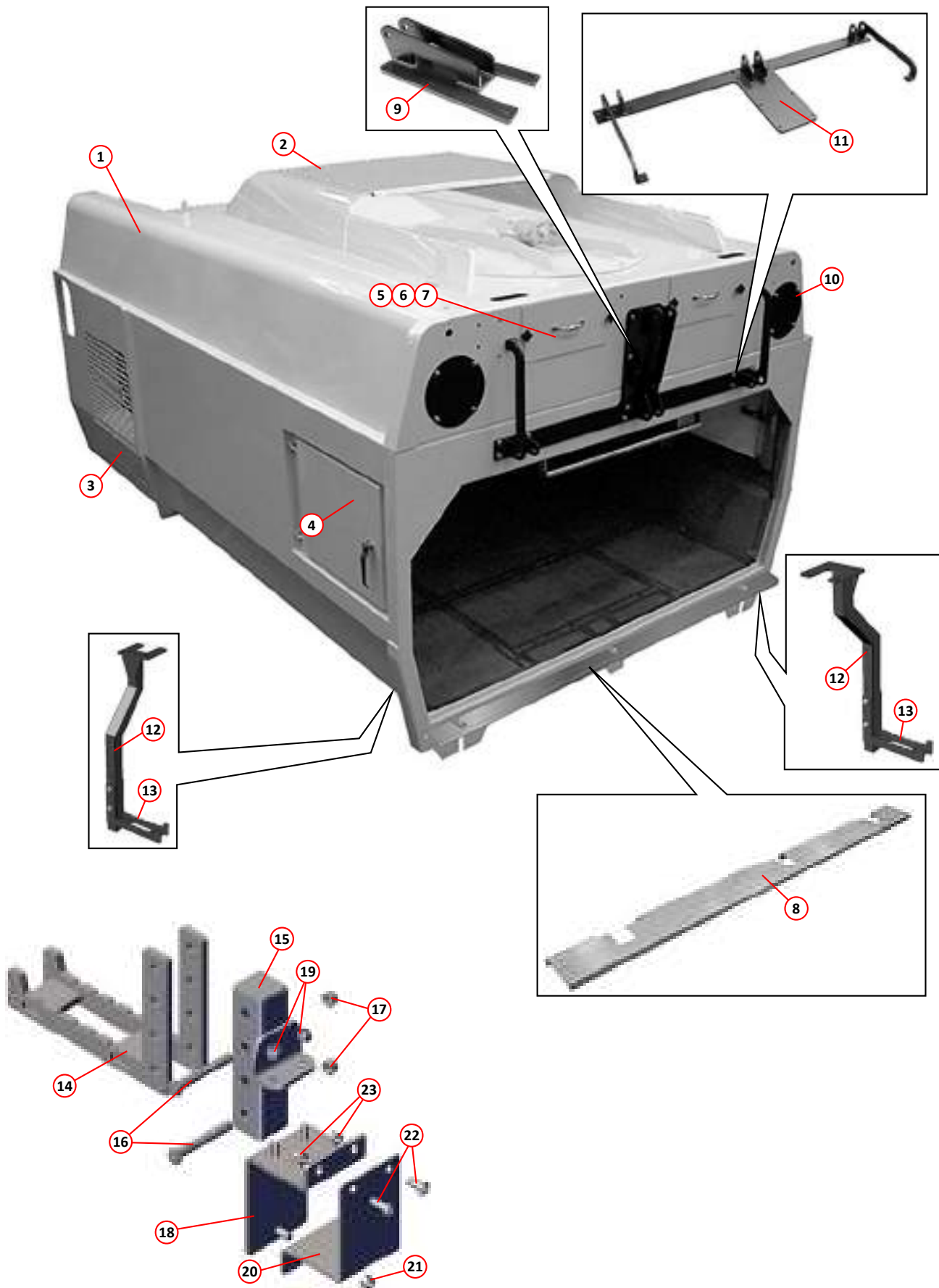
Please note that pneumatic cylinders are no longer fitted with bellows.

Automatic Hopper Prop Assembly

Item	Part Number	Quantity	Description
Hopper External Fittings			
1		1	Hopper
2	035797	1	. Cover, hopper
	000254	13	. . Washer, M6, stainless steel
	000250	13	. . . Set screw, M6 x 16, stainless steel
3	027755	1	. Access cover, valve block
	013645	AR	. . Seal strip
	011087	6	. . Set screw, M6 x 25mm
	011091	6	. . Washer, spring, M6
4	036363	2	. Door, side-loading hatch Page 570
5	030728	2	. Cover plate, fan housing
	010546	AR	. . Seal strip
6	000248	4	. . Plastic Knob
7	010502	2	. . Handle
8	030210	1	. Chute, discharge. (Merlin)
NI	028937	1	. Chute, discharge, (Magnum/8000/8500)
	000256	8	. . Set screw, M8 x 20, stainless steel
	000263	8	. . Nut, M8 Nyloc, stainless steel
	000270	16	. . Washer, M8, stainless steel
9	024346	1	. Mounting, adjustable, rear door ram Page 584
NI	025660	1	. Mounting, adjustable, rear door ram, (8000/8500) Page 584
	011032	10	. . Set screw, M10 x 30
	011033	2	. . Set screw, M10 x 35
	011074	12	. . Washer, M10
	011075	6	. . Nut, M10, Nyloc
10	025486	2	. Cover, wander boom aperture (1 only if rear boom fitted)
	011073	4	. . Nut, M8, Nyloc
	011092	4	. . Washer, M8
11	024345	1	. Plate, hinge, rear door Page 584
NI	025661	1	. Plate, hinge, rear door, (8000/8500) Page 584
	011034	6	. . Set screw, M10 x 40
	011075	6	. . Nut, M10, Nyloc
	011074	6	. . Washer, M10
	011014	2	. . Set screw, M8 x 40
	011073	2	. . Nut, M8, Nyloc
	011092	4	. . Washer, M8
Side Loading Hatch Access Steps *			
Hopper Mounted			
12		1	. Rear step mount
13	041290	1	. . Rear access step
	000139	2	. . . Bolt, M12 x 90
	011077	2	. . . Nut, M12, Nyloc
Rear Under Run/Rear Bumper Mounted (DAF 55 SHOWN)			
14	040153	1	Rear access step
15	041290	1	Mounting bracket rear access step
16	000139	2	Bolt, M12 x 90
17	011077	2	Nut, M12, Nyloc
18	042507	1	Clamp bracket
19	011075	2	Nut, M10, Nyloc
20	042508	1	Clamp plate
21	011075	1	Nut, M10, Nyloc
22	000344	2	Socket button head, M25 x 10, stainless steel
23	011075	2	Nut, M10, Nyloc

Notes:-

* Please contact Scarab Parts Department regarding these steps due to the variety of mounting options on differing chassis.

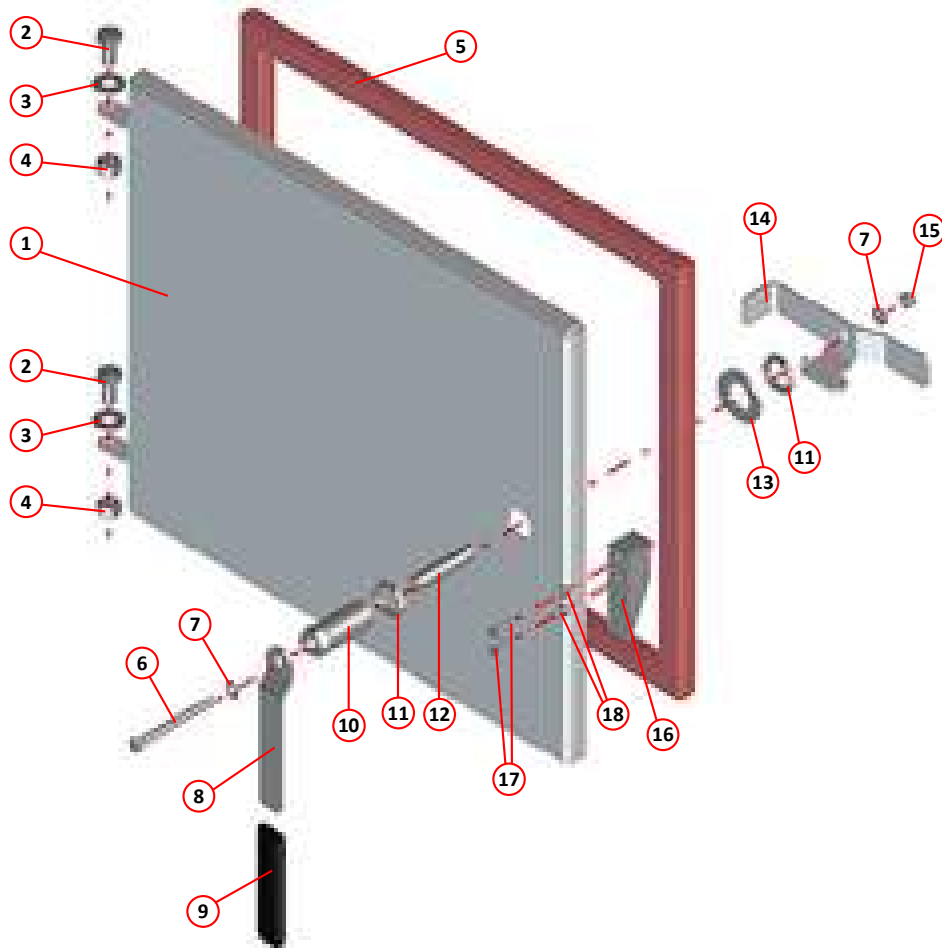


i Many variations of hopper exist therefore it is advisable to contact Scarab Parts Department, quoting the machines serial number when ordering associated replacement parts.

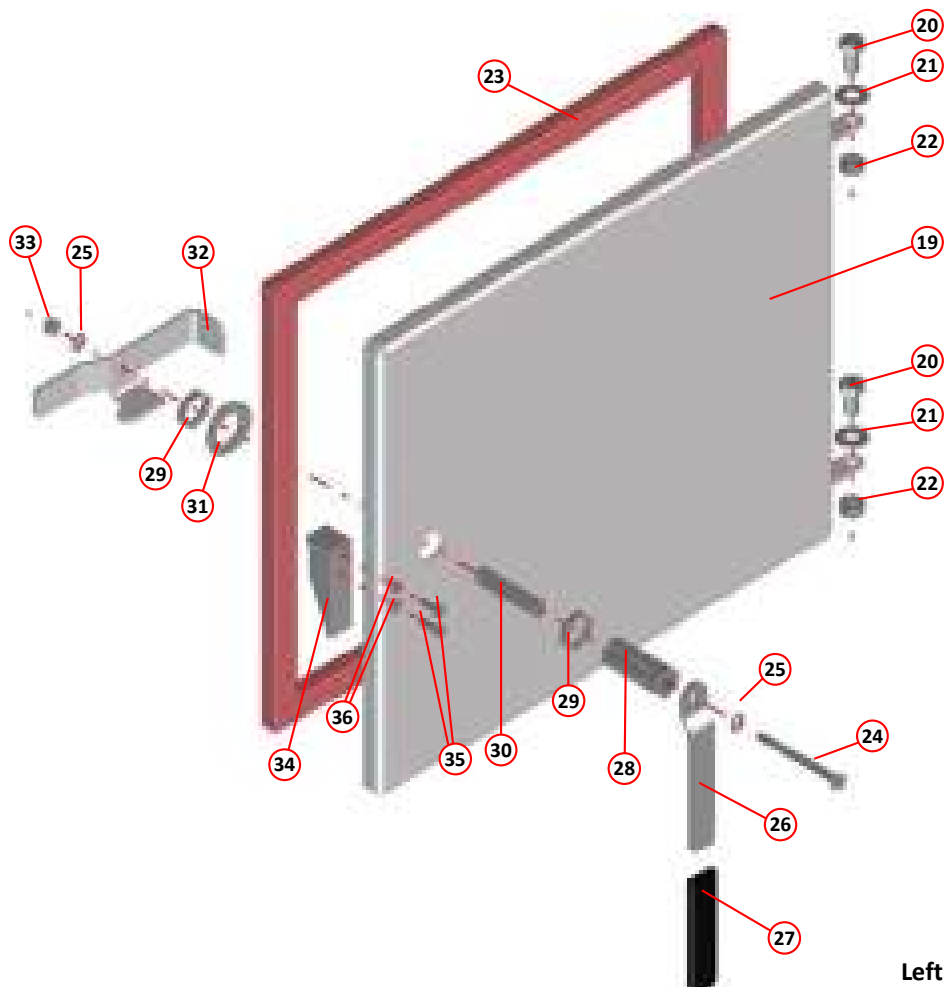
Hopper External Fittings

Item	Part Number	Quantity	Description
Hopper Left Side Loading Hatch			
1	036363	1	Side access door Page 568
2	000273	2	Set screw, M12 x 25mm, stainless steel
3	000277	2	Washer, M12, stainless steel
4	000275	2	Nut, M12, Nyloc, stainless steel
5	013599	1	Seal, side door
6	011019	1	Bolt, M8 x 90mm, stainless steel
7	011092	2	Washer, M8
8	027933	1	Handle
9	040032	1	Door handle sleeve
10	027935	1	Bearing, door catch
11	027937	2	Back nut, $\frac{3}{4}$ " BSP
12	027934	1	Spindle, door catch
13	000121	1	Washer, M27
14	040033	2	Door catch left hand
15	011073	1	Nut, M8, Nyloc
16	027932	1	Striker (located inside of hopper)
17	000252	2	Set screw, M6 x 20mm, stainless steel
18	000254	2	Washer, M6, stainless steel

Hopper Right Side Loading Hatch			
19	036363	1	Side access door Page 568
20	000273	2	Set screw, M12 x 25mm, stainless steel
21	000277	2	Washer, M12, stainless steel
22	000275	2	Nut, M12, Nyloc, stainless steel
23	013599	1	Seal, side door
24	011019	1	Bolt, M8 x 90mm, stainless steel
25	011092	2	Washer, M8
26	027933	1	Handle
27	040032	1	Door handle sleeve
28	027935	1	Bearing, door catch
29	027937	2	Back nut, $\frac{3}{4}$ " BSP
30	027934	1	Spindle, door catch
31	000121	1	Washer, M27
32	040034	2	Door catch right hand
33	011073	1	Nut, M8, Nyloc
34	027932	1	Striker (located inside of hopper)
35	000252	2	Set screw, M6 x 20mm, stainless steel
36	000254	2	Washer, M6, stainless steel



Left Side Loading Hatch



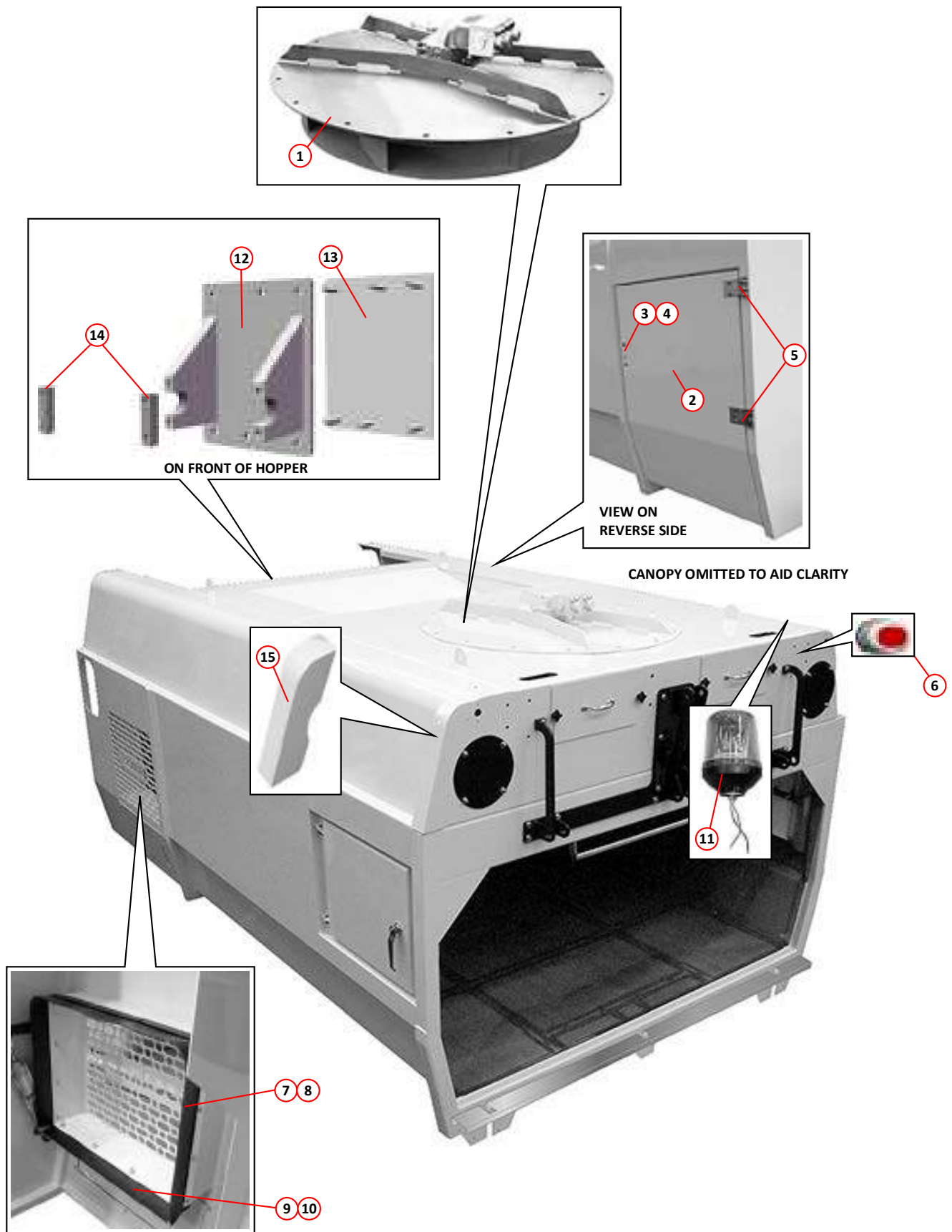
Left Side Loading Hatch

Subframe, Hopper and Related Equipment

Item	Part Number	Quantity	Description	
Hopper External Fittings - Continued				
1		1	Suction fan assembly	Page 588
	011075	16	. . Nut, M10, Nyloc	
	011074	16	. . Washer, M10	
2	025828	1	Locker door (Merlin)	
NI	032228	1	Locker door (Merlin XP)	
3	013072	1	. . Door lock	
4	013073	1	. . Spacer	
	000284	2	. . Set screw, M6 x 55mm	
	011071	2	. . Nut, M6, Nyloc	
5	011654	2	. . Hinge	
	000517	2	. . Countersunk screw, M6 x 55mm	
	000250	2	. . Set screw, M6 x 16mm	
	011071	4	. . Nut, M6, Nyloc	
	011090	4	. . Washer, M6	
NI	013069	1	. . Key, locker door	
6	030773	2	Rear marker light	Page 556
	000028	4	. . Screw, slotted round head, 2BA x $\frac{1}{2}$ "	
	011078	4	. . Nut, 2BA, Nyloc	
7	024937	1	Seal, cooler, long	
8	022604	2	Clamp, long	
	011010	8	. . Set screw, M8 x 20mm	
	011073	8	. . Nut, M8, Nyloc	
	011092	8	. . Washer, M8	
9	022603	1	Seal, cooler, short	
10	024983	2	Clamp, short	
	011010	8	. . Set screw, M8 x 20mm	
	011073	8	. . Nut, M8, Nyloc	
	011092	8	. . Washer, M8	
11	014064	1	Beacon, standard fit	Page 556
NI	036911	1	Loom, hopper components	Page 554
12	010719 *	1	Pivot plate, hopper lift ram	
NI	025581 *	A/R	. . Spacer 4mm	
13	040382 *	1	. . Clamp plate (inside of hopper)	
	011075 *	6	. . Nut, M10, Nyloc	
	000270 *	6	. . Washer M10	
14	034395 *	2	. . Ram pivot bar	
	011034 *	4	. . . Bolt, M10 x 40mm	
	011095 *	4	. . . Washer, spring, rectangular, M10	
15	024784	1	. . Capping, LH. (Merlin) (Rivet)	
NI	040024	1	. . Capping, LH. (Merlin) (Screw)	
NI	025767	1	. . Capping, LH. (Magnum/8000/8500) (Rivet)	
NI	040014	1	. . Capping, LH. (Magnum/8000/8500) (Screw)	
NI	024789	1	. . Capping, RH. (Merlin) (Rivet)	
NI	040025	1	. . Capping, RH. (Merlin) (Screw)	
NI	025766	1	. . Capping, RH. (Magnum/8000/8500) (Rivet)	
NI	040013	1	. . Capping, RH. (Magnum/8000/8500) (Screw)	

Notes:-

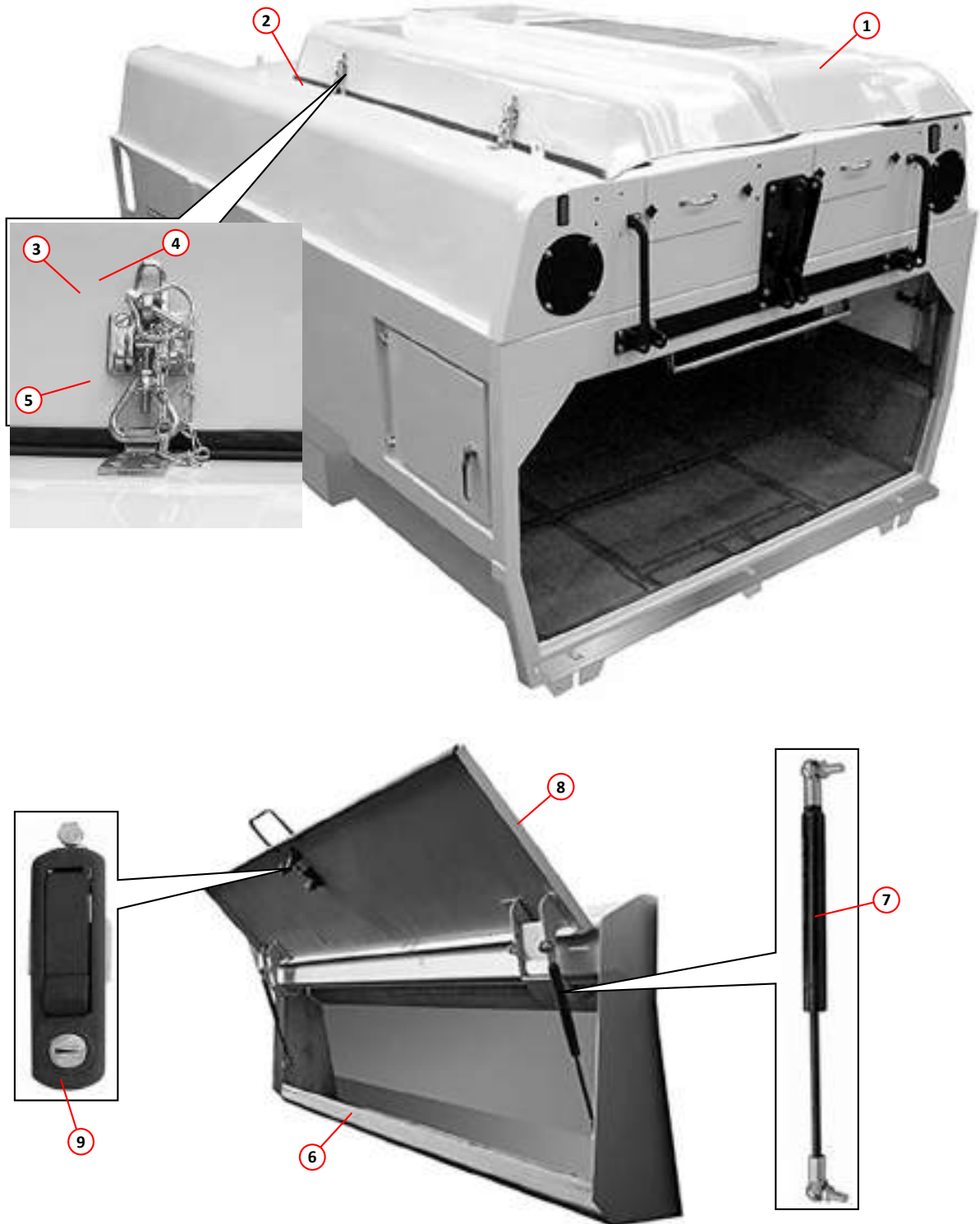
* All these parts are required to retro fit the single piece pivot plate in place of the older 2 piece design.



Many variations of hopper exist therefore it is advisable to contact Scarab Parts Department, quoting the machines serial number when ordering associated replacement parts.

Hopper External Fittings

Item	Part Number	Quantity	Description	
Hopper External Fittings - Continued				
1	024704	1	Hopper cover, GRP (Merlin)	
2	013952	AR	. Seal strip	
	000005	15	. . Screw, slotted countersunk, 2BA x $\frac{3}{4}$ "	
	011078	15	. . Nut, 2BA, Nyloc	
3	022656	5	. Toggle clip fastener	
4	013507	5	. Linch pin, complete with chain	
5	022657	5	. Hook plate, toggle clip	
6	031487	1	Ancillary tool locker body	
	000344	4	. Screw, button socket head, M10 x 25mm stainless steel	} Option
	000269	4	. Nut, M10, Nyloc, stainless steel	
	000270	4	. Washer, M10, stainless steel	
7	033114	2	. Gas Strut	
8	031489	1	. Locker door	
	011019		. . Set screw, M8 x 90mm	
	011073		. . Nut, M8, Nyloc	
9	033115	1	. Locking latch	



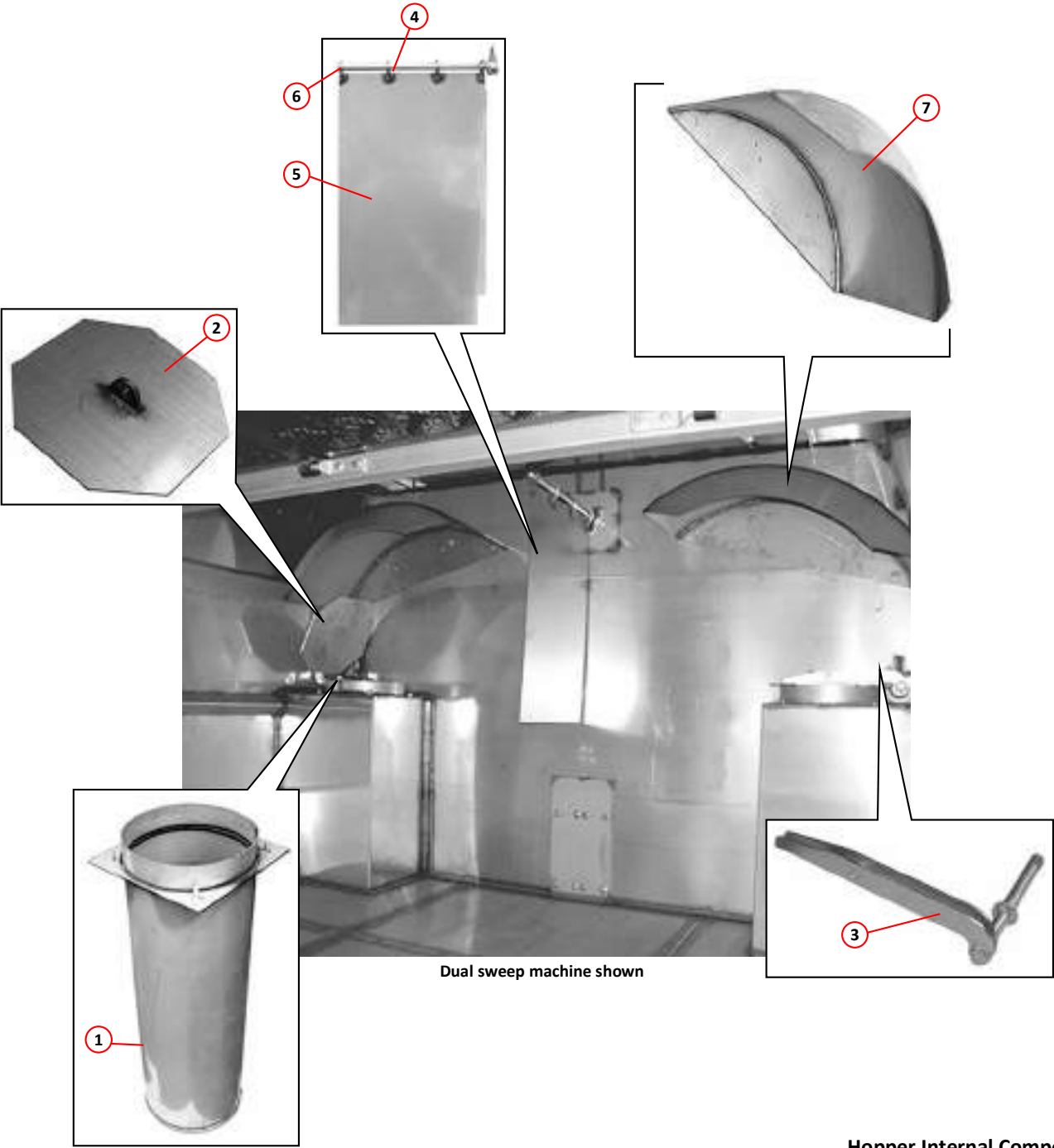
i Many variations of hopper exist therefore it is advisable to contact Scarab Parts Department, quoting the machines serial number when ordering associated replacement parts.

Hopper External Fittings

Item	Part Number	Quantity	Description
Hopper Internal Components			
1	025435 *	1	Suction tube 750mm (Merlin)
1	025401 *	1	Suction tube 850mm (Magnum)
1	025665 *	1	Suction tube 925mm (Magnum/8000/8500)
1	024732 *	1	Suction tube 600mm (Magnum/8000)
	005021	AR	. Sealing strip
	000269	4	. Nut, M10 Nyloc, stainless steel
	000270	4	. Washer, M10, stainless steel
2	021514 *	1	Cover lid, blanking Page 580
3	021518	1	. Flap arm, RH Page 580
NI	021517	1	. Flap arm, LH Page 580
4	030536	1	Mounting bar
	011032	3	. Set screw, M10 x 30mm
	011075	3	. Nut, M10, Nyloc
	011094	3	. Washer, M10
5	030535 *	1	. Deflector plate
6	030537	1	. Locking ring
	011031	1	. . Set screw, M10 x 25mm
	011095	1	. . Washer, spring, M10
7	022644 *	1	Deflector, universal
	011055	2	. Bolt, M12 x 65mm
	011051	4	. Set screw, M12 x 25mm

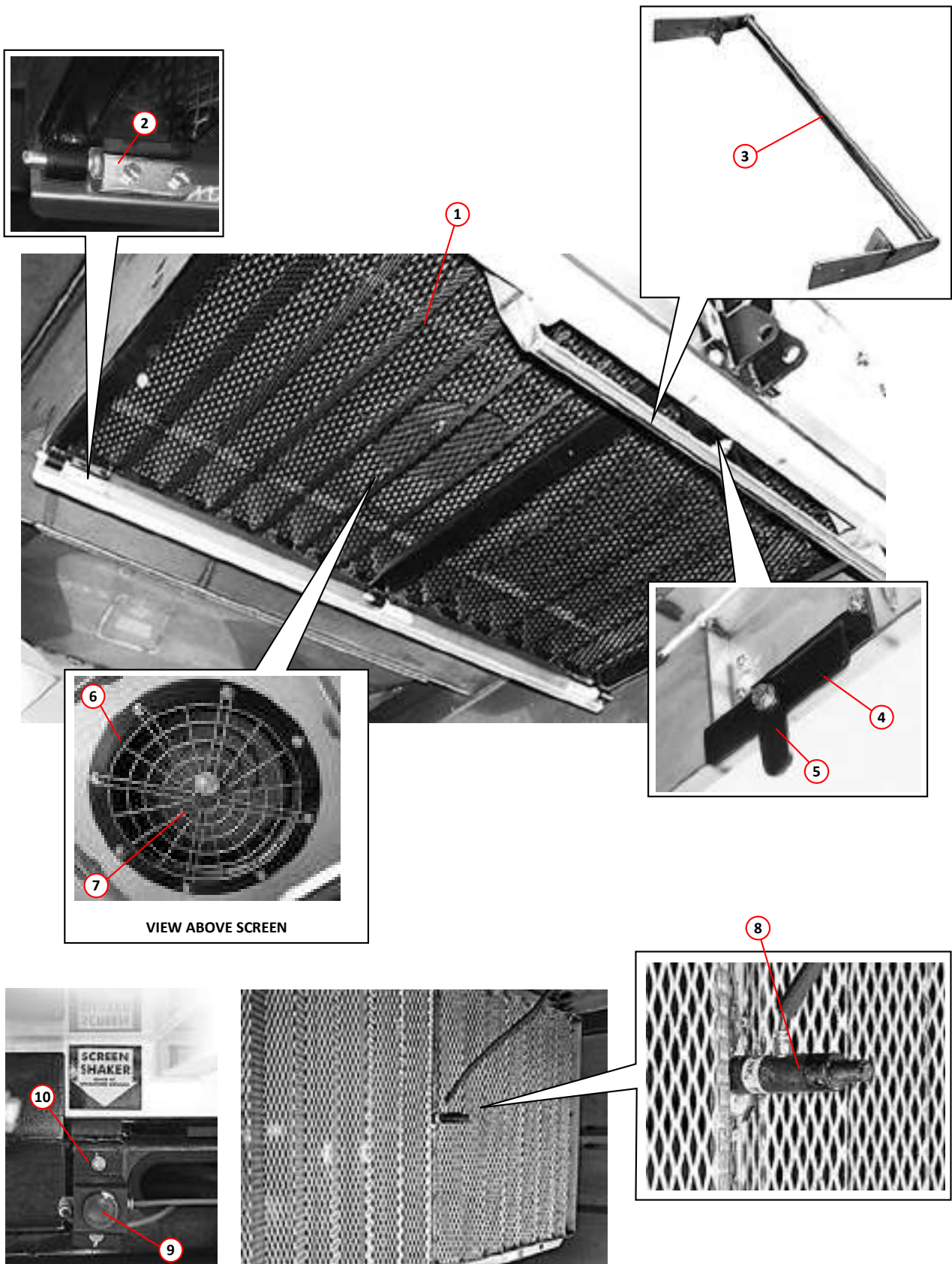
Notes:-

- * Can be supplied with PU compound, before ordering replacement parts, please contact Scarab Parts Department quoting your machine serial number.



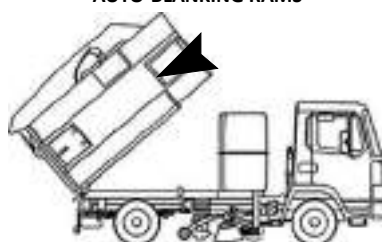
Hopper Internal Components

<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>	
Hopper Internal Components - Continued				
1	031883	1	Screen, filter, stainless steel	
1	024668	1	Screen, filter	
2	025245	3	. Hinge, points	
	000257	6	. . Set screw, M8 x 25mm, stainless steel	
	000263	6	. . Nut, M8, Nyloc	
3	028265	1	. Screen handle catch	
	000257	4	. . Set screw, M8 x 25mm, stainless steel	
	000263	4	. . Nut, M8, Nyloc, stainless steel	
	011092	4	. . Washer, M8	
4	028052	1	. Bracket, safety link	
5	028053	1	. . Safety link	
	000280	1	. . . Set screw, M10 x 25mm, stainless steel	
	011075	1	. . . Nut, M10, Nyloc, stainless steel	
	000270	2	. . . Washer, M10, stainless steel	
6	032357	1	Cone, inlet, suction fan, stainless steel	
6	024790	1	Cone, inlet, suction fan	
7	039674	1	. Fan guard	
NI	034091	1	. Repair ring (requires welding)	
	000263	8	. Nut, M8, Nyloc, stainless steel	
8	033618	1	Vibrator, screen shaker	} Option
9	033619	1	Screen shaker control valve	
10	033620	1	. Mount, screen shaker control valve	
	011087	2	. . Set screw, M6 x 25mm	
	011071	2	. . Nut, M6, Nyloc	

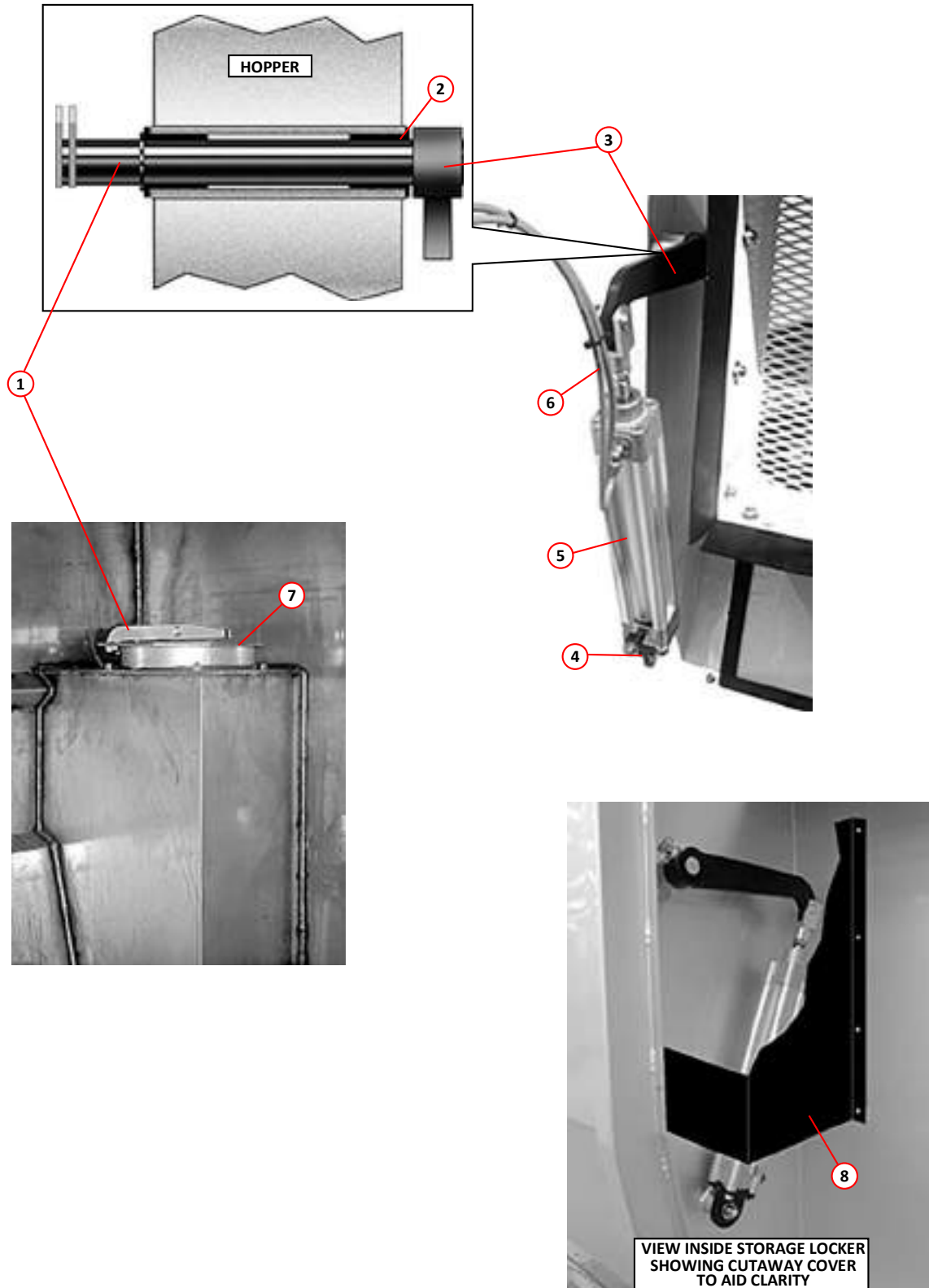


Item	Part Number	Quantity	Description
			Auto Blanking Arrangement *
1	021517	1	Flap arm, LH Page 576
NI	021518	1	Flap arm, RH Page 576
2	013488	2	. Bush
3	024772	1	. Flap lever
	000363	1	. . Set screw, M12 x 1.25 pitch x 25mm, stainless steel
	000279	1	. . Nut, M12 x 1.25 pitch, stainless steel
5	021467	1	Cylinder, pneumatic, 40 x 200 Page 546
	011075	1	. Nut, M10, Nyloc
6	024650	AR	. Tubing, air, flexible nylon, 6mm Superflex
7	021514 †	1	Flap lid, blanking Page 576
8	025486	1	Cover plate (Merlin)
NI	032343	1	Cover plate (XP)
NI	021547	1	Cover plate (Magnum)

AUTO-BLANKING RAMS

**Notes:-**

- * Items listed are identical for both left and right hand blanking assemblies, except for where identified specifically for one side.
- † Can be supplied with PU compound, before ordering replacement parts, please contact Scarab Parts Department quoting your machine serial number.

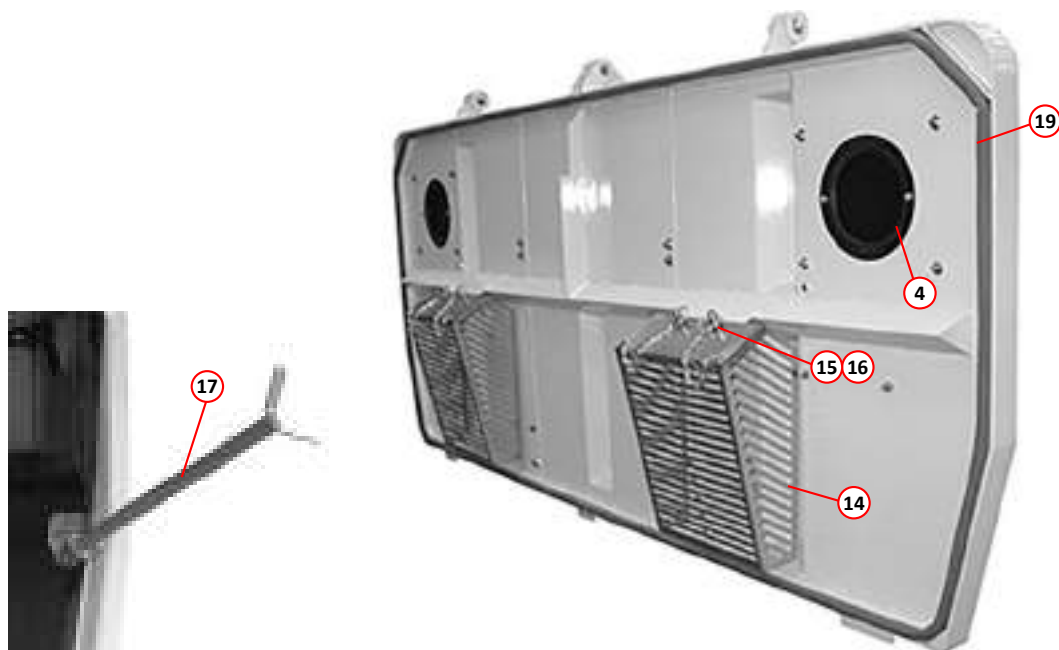
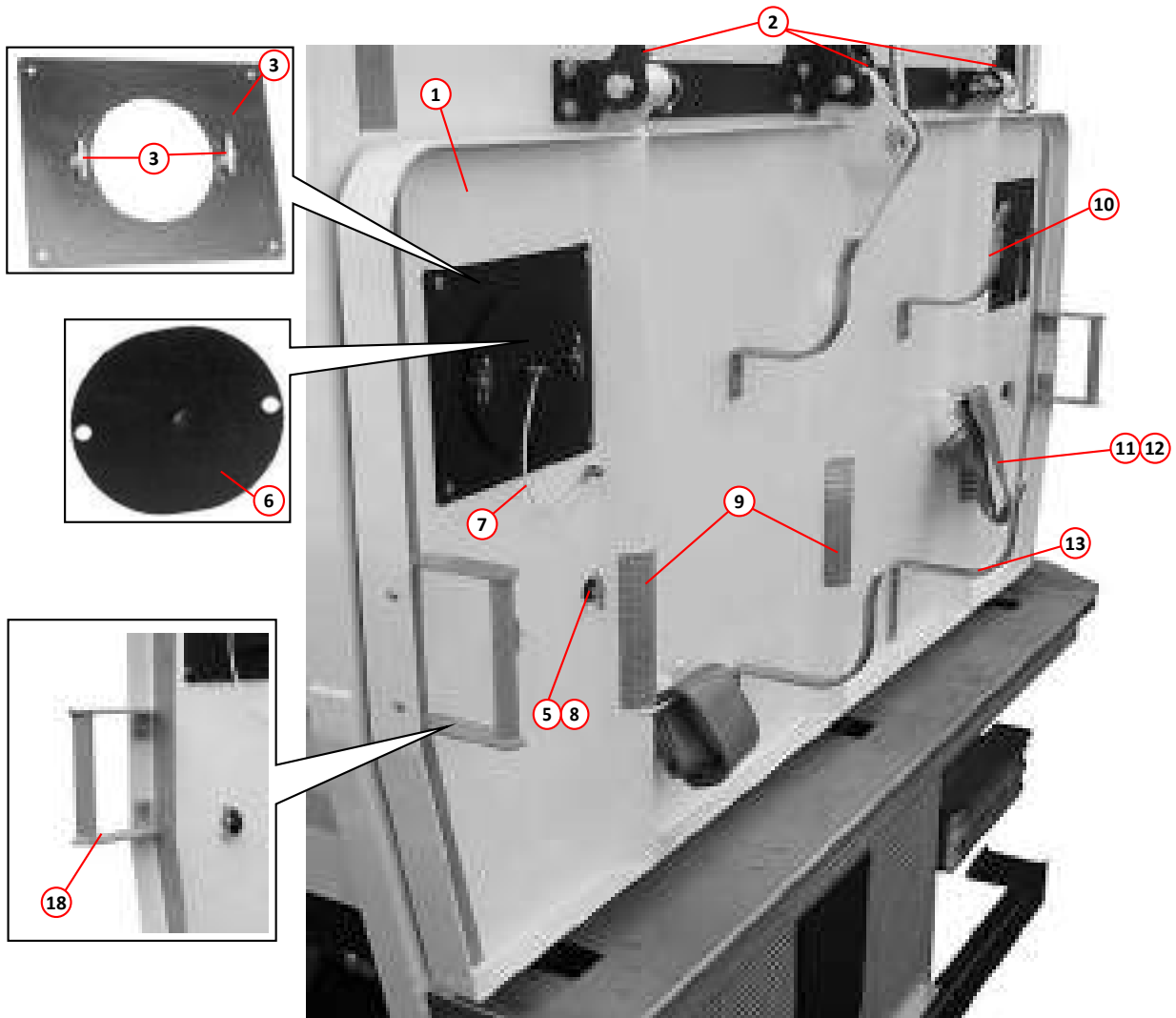


Auto Blanking - Arrangement

Item	Part Number	Quantity	Description
Rear Door Components			
1	023012 *	1	Rear door (Merlin)
NI	027902 *	1	Rear door (Magnum)
NI	032223 *	1	Rear door (XP)
2	010902	3	. Grease point, $\frac{1}{8}$ " BSP x 90°
3	023009	2	. Plate, wander hose, mounting
4	025222	AR	. . Sealing strip, Titanfast DX78
	000257	8	. . Set screw, M8 x 25mm, stainless steel
	000263	8	. . Nut, M8, Nyloc, stainless steel
5	012253	8	. Antiluce, small
6	012486	2	. Plate, blanking cap
7	020711	2	. . Leash cable
	000258	2	. . . Set screw, M8 x 30mm, stainless steel
	000262	4	. . . Nut, M8, stainless steel
	000263	4	. . . Nut, M8, Nyloc, stainless steel
8	021979	4	. . . Washer, rubber
9	031919	3	. Protector
10	010245	2	. Hook, wander hose, upper mounting
	000257	4	. . Set screw, M8 x 25mm, stainless steel
	000263	4	. . Nut, M8, Nyloc, stainless steel
11	010998	AR	. Hose, lay flat
12	012931	2	. . Clamp, worm drive, 70-90mm
13	022747	2	. Hook, wander hose, lower mounting
	000257	4	. . Set screw, M8 x 25mm, stainless steel
	000263	4	. . Nut, M8, Nyloc, stainless steel
14	022292	2	. Strainer (option)
15	013506	4	. . . Pin
16	013507	4	. . . Linch pin and chain
17	039683	1	. Safety prop, hopper rear door, usually stowed in locker
18	039593	2	. Grab handle, hopper door
	000281	4	. . Set screw, hex socket pan head, M8 x 25mm, stainless steel
	000264	4	. . . Washer, M8, stainless steel
	000263	4	. . . Nut, M8, Nyloc, stainless steel
19	030481	6.0 m	. Seal, rear door, circular section, (cut to length)

Notes:-

- * Rear doors listed are for standard hoppers. Many variations of hopper and rear door exist and therefore it is advisable to contact Scarab Parts Department, quoting machine serial number when ordering.



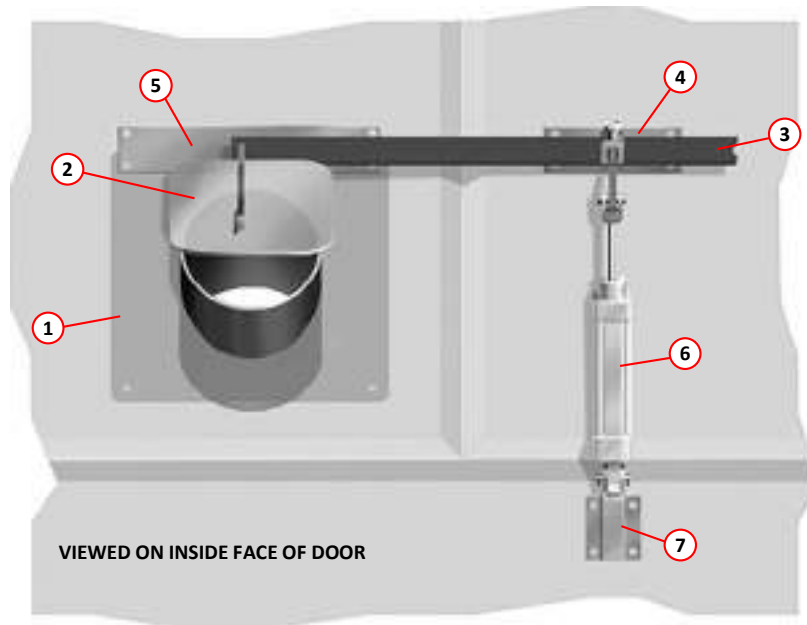
Rear Door Components

Item	Part Number	Quantity	Description
Rear Door Auto Blanking Assembly * - (Option)			
1	027674	2	Hose Spigot Plate
2	027675	2	. Flap Plate
3	027802	1	. Pivot Bar
4	027737	1	. . Adjuster bracket
5	027738	2	. . Pivot bracket
6	020602	1	Cylinder, pneumatic, 40 x 125 Page 544
7	027679	1	. Ram bracket

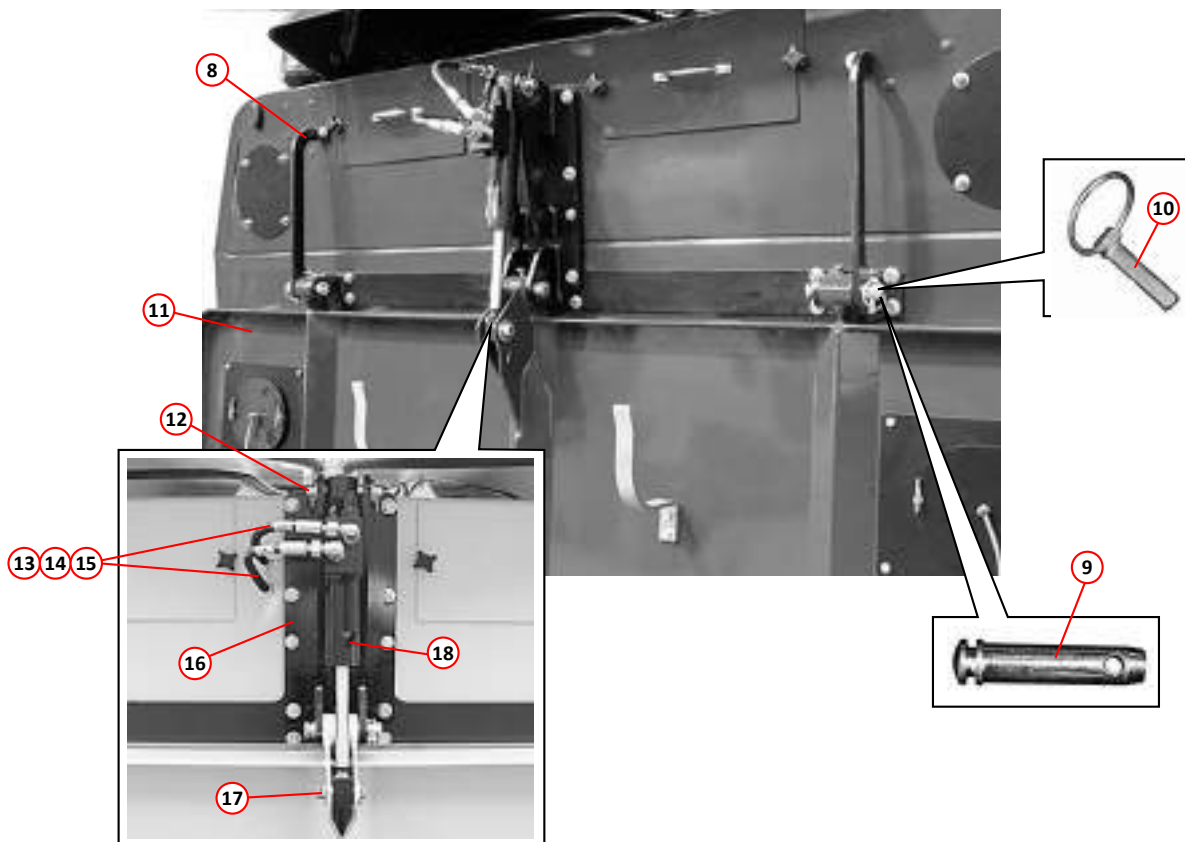
Item	Part Number	Quantity	Description
Rear Door Hinge and Ram Arrangement			
8		1	Hinge plate Page 568
9	013051	3	Hinge pin
10	013053	3	. Linch pin
11		1	Rear door assembly Page 582
12	022558	1	Pin, upper
	011102	4	. Washer, M20
	011122	2	. Split pin, $\frac{3}{16}$ " x $1\frac{1}{2}$ "
13	011317	2	Hose, rubber, $\frac{1}{4}$ " BSP x 295mm, straight ends
14	011269	2	Adaptor, bulkhead, M/M, $\frac{1}{4}$ " BSP
15	011171	2	Elbow, swivel, $\frac{1}{4}$ " BSP, M/F
16		1	Mounting plate, ram Page 568
17	014038	1	. Pin, lower
	011102	4	. Washer, M20
	011122	2	. Split pin, $\frac{3}{16}$ " x $1\frac{1}{2}$ "
18	022511	1	Ram assembly Page 512

Notes:-

- * The rear door auto-blanking option is only fitted when the vehicle is equipped with a rear mounted suction nozzle assembly.

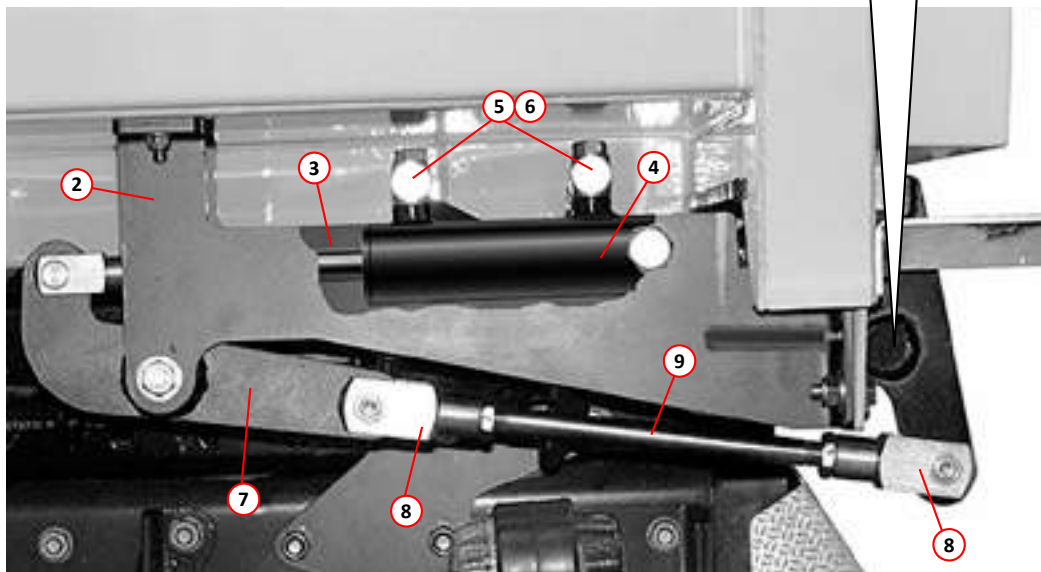
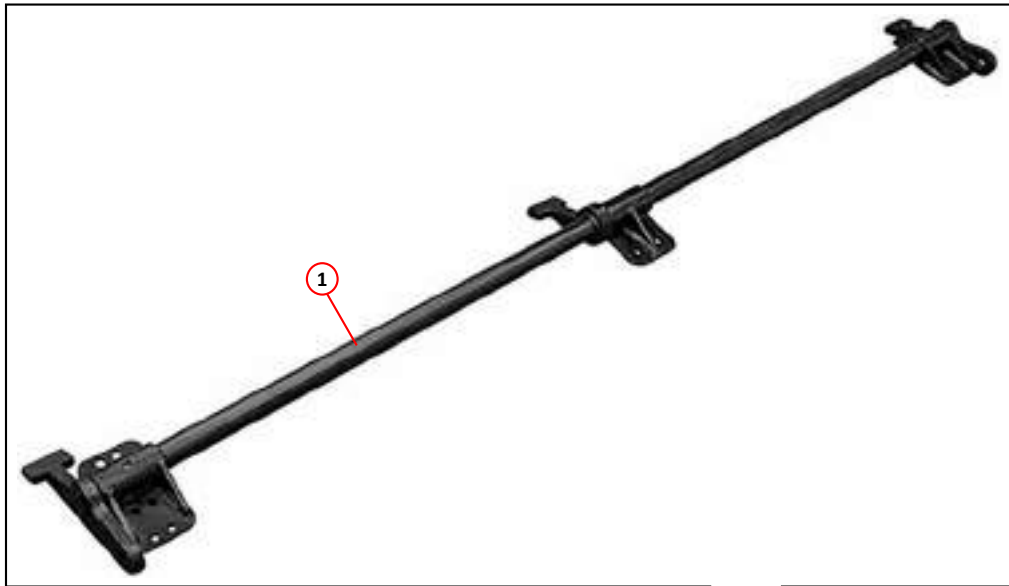


Rear Door Auto Blanking Assembly



Rear Door Hinge and Ram Arrangement

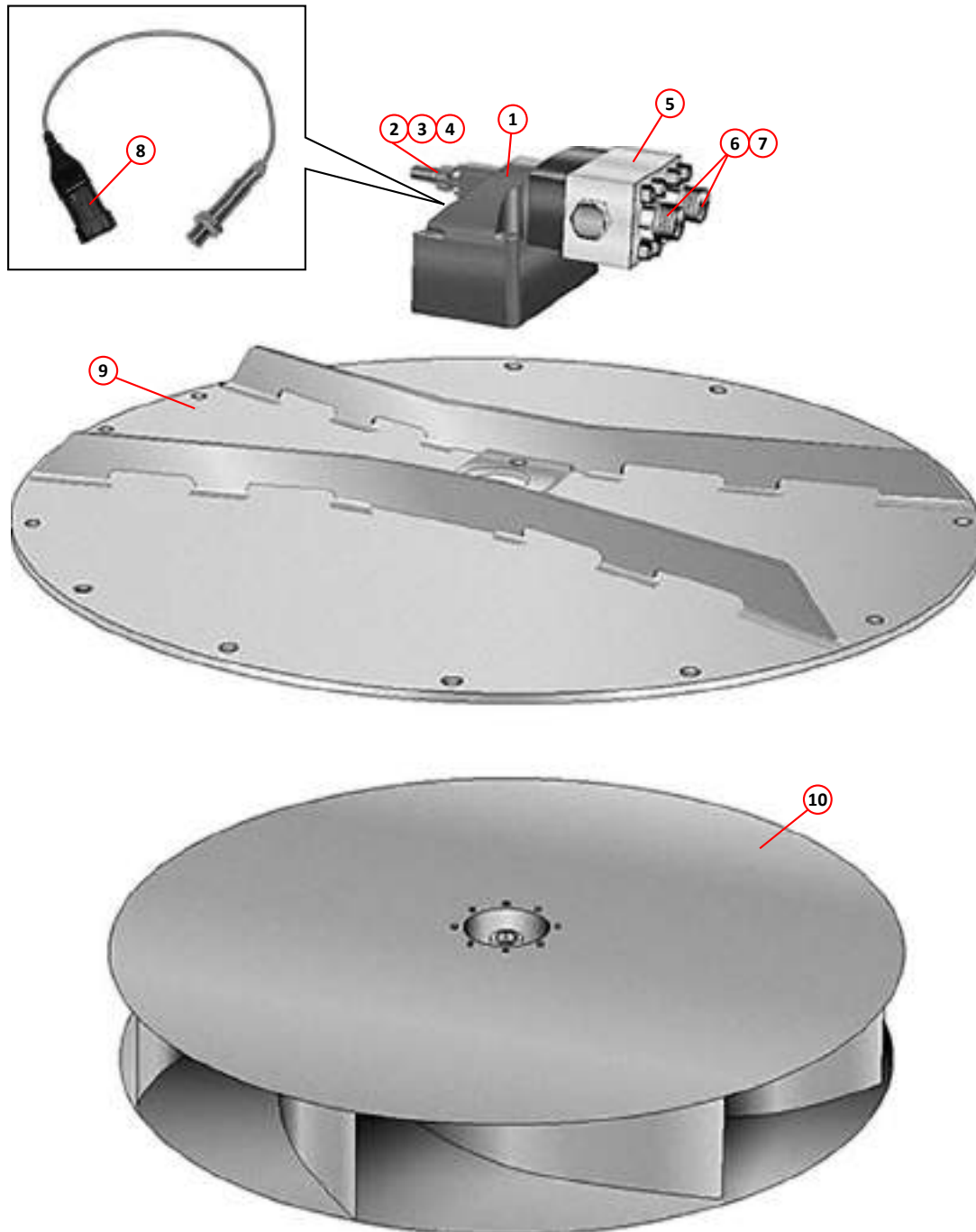
Item	Part Number	Quantity	Description
Rear Door Locking Arrangement			
1	030985	1	Locking bar assembly (Merlin/Merlin XP)
NI	027908	1	Locking bar assembly (Magnum)
NI	028089	1	Locking bar assembly (8000/8500)
	011032	8	. Set screw, M10 x 30mm
	011074	16	. Washer, M10
	011075	8	. Nut, M10, Nyloc
2	030984	1	Side plate, outer, rear door clamp, RH (Merlin)
3	030982	1	Side plate, inner, rear door clamp, RH (Merlin)
NI	030983	1	Side plate, outer, rear door clamp, LH (Merlin)
NI	030981	1	Side plate, inner, rear door clamp, LH (Merlin)
NI	028278	1	Side plate, outer, rear door clamp, RH (Magnum/8000/8500)
NI	028278	1	Side plate, inner, rear door clamp, RH (Magnum/8000/8500)
NI	028277	1	Side plate, outer, rear door clamp, LH (Magnum/8000/8500)
NI	027903	1	Side plate, inner, rear door clamp, LH (Magnum/8000/8500)
	000329	4	. Screw, socket button head, M8 x 20mm, stainless steel
	000270	4	. Washer, M8, stainless steel
	000263	4	. Nut, M8, Nyloc, stainless steel
	011031	4	. Set screw, M10 x 25mm
	011074	8	. Washer, M10
	011075	4	. Nut, M10, Nyloc
4	022350	2	. Ram, hydraulic Page 512
	011133	2	. . Bolt, M16 x 100mm
	011060	2	. . Nut, M16, Nyloc
5	002017	4	. . Adaptor, banjo, elbow, M/M, $\frac{1}{4}$ " BSP
6	011152	8	. . Seal, Dowty, $\frac{1}{4}$ " BSP
7	024999	2	. Lever, ram operating
NI	013488	4	. . Bush
NI	022451	2	. . Spacer
	000139	2	. . . Bolt, M12 x 90mm
	011077	2	. . . Nut, M12, Nyloc
8	020299	4	. . Clevis, M16
NI	022673	4	. . Pin, clevis fixing
NI	022674	4	. . Clip, clevis pin
9	022347	2	. . Connecting rod
	000138	4	. . . Nut, M16 x 1.5 pitch



CUT-AWAY TO SHOW HIDDEN DETAIL

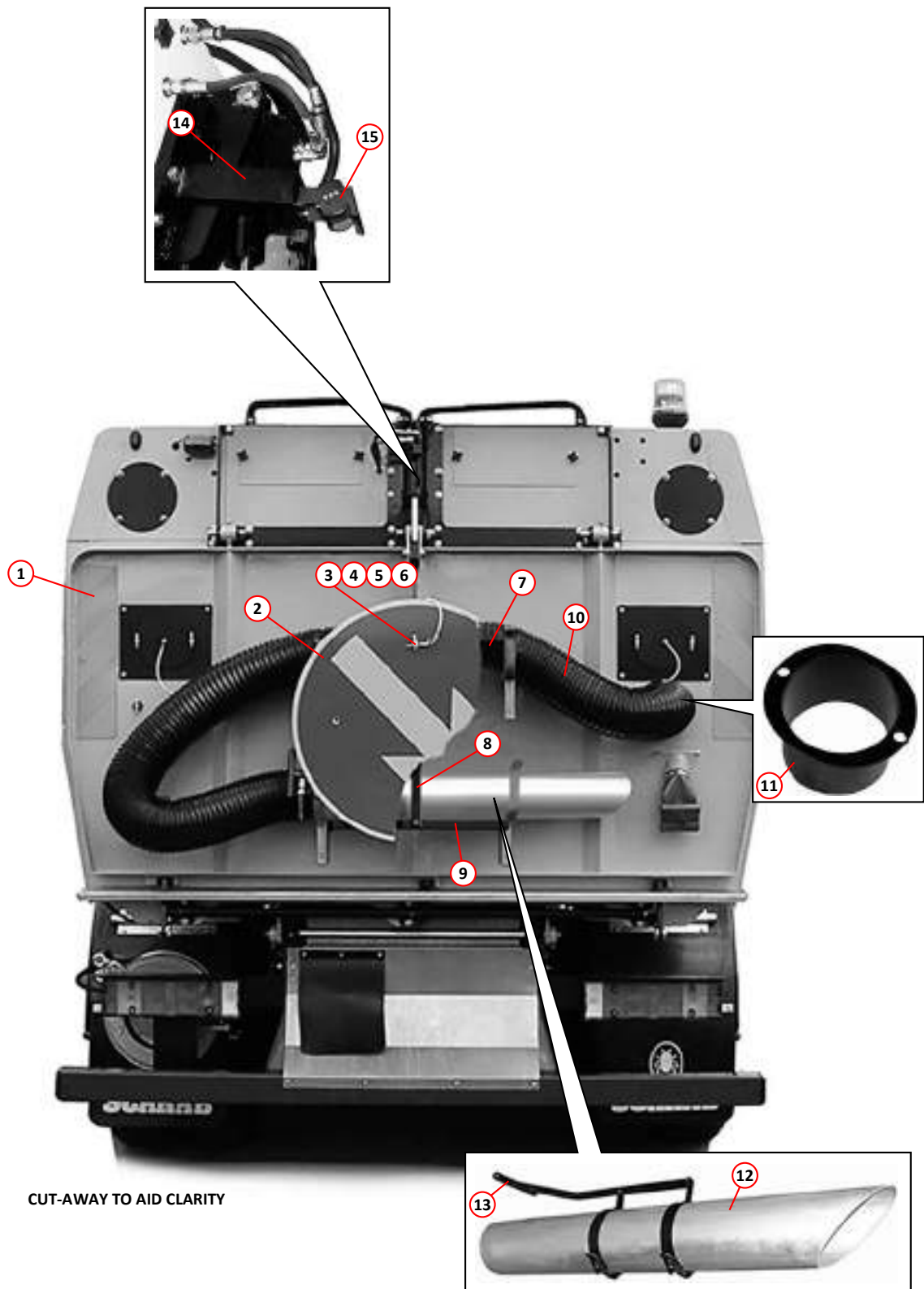
Rear Door Locking Arrangement

Item	Part Number	Quantity	Description
Suction Fan Arrangement			
1	024641	1	Motor, hydraulic, VOAC F12-030-MF-CH-K Page 506
2	011248	1	. Adaptor, M/M, M18 x $\frac{3}{8}$ " BSP
3	011247	1	. Seal, Dowty, M18
4	010921	1	. Hose tail, $\frac{3}{8}$ " BSP female x $\frac{3}{8}$ " hose
NI	027237	1	. Seal kit, for 024641 VOAC Fan Motor
5	035967	1	. Valve block
	000048	8	. . Screw, socket cap head, M10 x 80mm
	011095	8	. , Washer, spring, M10
6	011161	2	. . Adaptor, M/M, $\frac{3}{4}$ " BSP
7	011155	2	. . Seal, Dowty, $\frac{3}{4}$ " BSP
8	025184	1	. Speed sensor (green lead) Page 556
9	024679	1	Fan Plate
	011424	16	. Washer, M10
	011075	16	. Nut, M10, Nyloc
10	025241	1	Impeller
NI	030651	1	Impeller (stainless steel)
NI	041456	1	Impeller, high speed (stainless steel)
	011052	1	. Set screw, M12 x 30mm
	024791	1	. Cap Washer, VOAC Motor



Suction Fan Arrangement

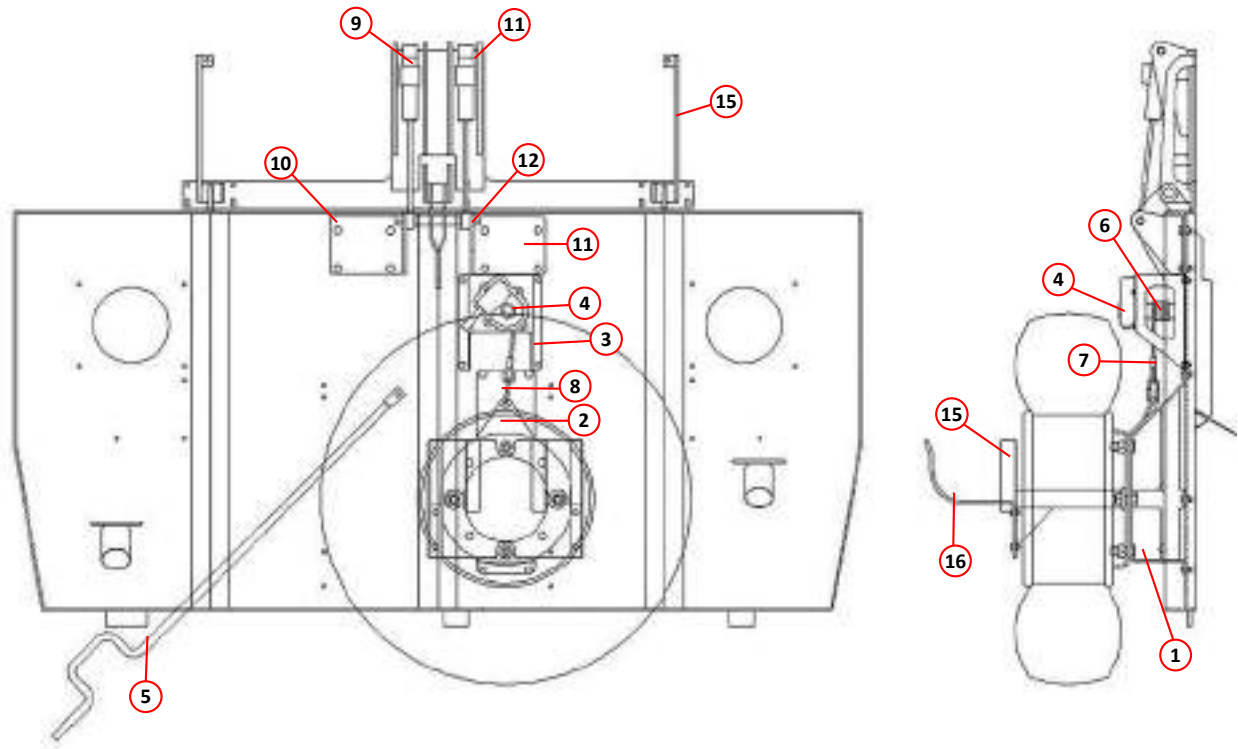
Item	Part Number	Quantity	Description
Additional Hopper/Rear Door Components			
1	022389	2	. Marker plates
2	026694	1	. Directional arrow, ø750mm
3	012253	2	. . Antiluce, small
	012969	2	. . . Washer, rubber, ø40 x 12 bore x 6mm thick
4	020711	1	. . Leash cable
5	021944	1	. . . R-clip
6	023599	1	. . . Key pull
7	031976	1	. . . Upper support bar, directional arrow
8	031978	1	. . . Centre support bar, directional arrow
	000003	2	 Screw, socket countersunk, M8 x 20mm
	011073	2	 Nut, M8, Nyloc
	011092	2	 Washer, M8
9	031977	1	. . . Lower support bar, directional arrow
10	010119	1	. Wander hose, ø160mm x 3 metre
11	012488	1	. . Coupling
NI	010519	2	. . . Clamp, worm drive, size 135-165mm
12	010587	1	. . Tube
13	040670	1	. . Handle
14	036437	1	Bracket, rear camera
15	040354	1	. Rear camera Page 556
NI	040353	1	Loom, power supply, rear camera Page 658,552,554
NI	040355	1	Loom, rear camera Page 658,552,554



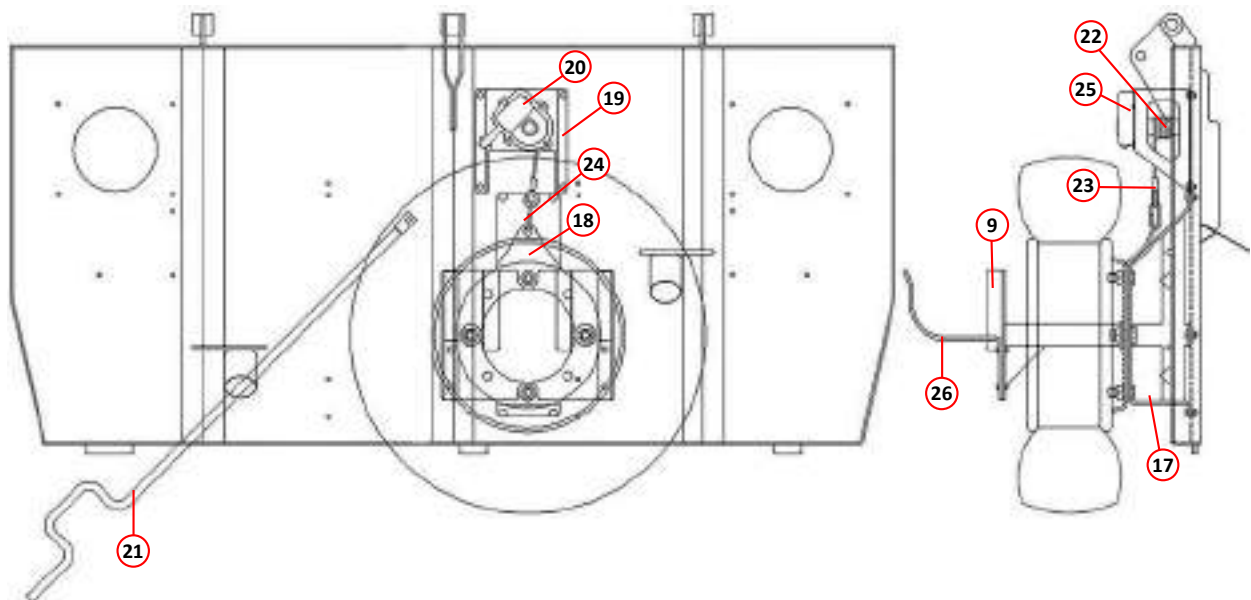
Additional Hopper/Rear Door Parts

<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Rear Door - Spare Wheel Carrier - Magnum - (Option)			
1	026777	1	Bracket, spare wheel
	011082	4	. Nut, M20, Nyloc
2	026778	1	Lift plate
3	026779	1	Bracket, Winch
4	028406	1	Winch, modified
5	028407	1	Winch handle
6	028645	1	Cable, winch
7	014107	2	Cable grip 6mm
8	010606	1	Carabiner
9	022511	1	Ram
10	028523	1	Ram pivot LH
11	028524	1	Ram pivot RH
12	028525	1	Ram pin
13	025661	1	Ram mount, adjustable
14	025660	1	Hinge plate, adjustable
15	028684	1	Rear boom carrier
16	022747	2	Hose hook large

<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Rear Door - Spare Wheel Carrier - Merlin - (Option)			
17	026777	1	Bracket, spare wheel
	011082	4	. Nut, M20, Nyloc
18	026778	1	Lift plate
19	026779	1	Bracket, winch
20	028406	1	Winch, modified
21	028407	1	Winch handle
22	028645	1	Winch cable
23	014107	2	Cable grip 6mm
24	010606	1	Carabiner
25	028684	1	Rear boom carrier
26	022747	2	Hose hook large



Spare Wheel Carrier - Magnum

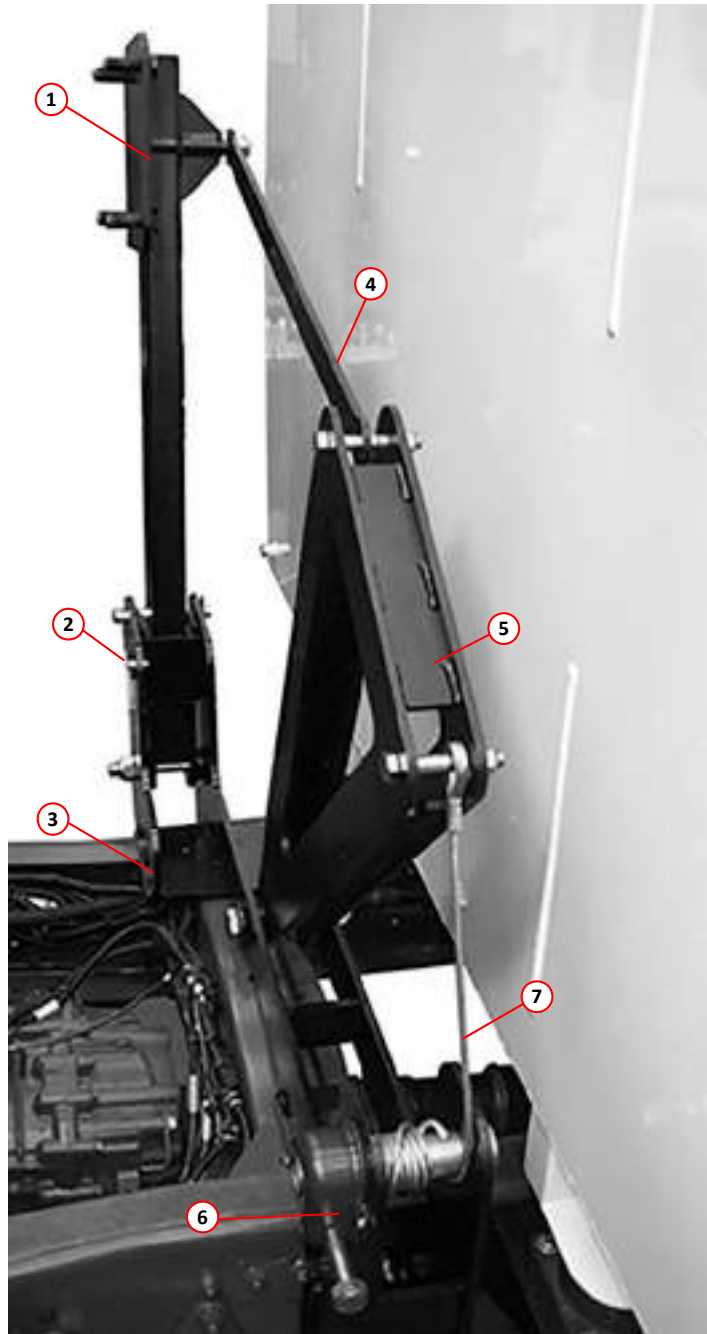


Spare Wheel Carrier - Merlin

Item	Part Number	Quantity	Description
Chassis Mounted - Spare Wheel Carrier - (Option)			
1	*	1	Main arm & wheel mounting
	011086	1	. Nut, M16, Nyloc
	000241	2	. Bolt, M24 x 130mm
	000008	2	. Nut, M24, Nyloc
	032587	1	. Lock pin
NI	020711	1	. . Leash cable
NI	023599	1	. . Pull ring
NI	021944	1	. . D-clip
3	*	1	. Mounting bracket
	011052	6	. . Set screw, M12 x 30mm
	011086	6	. . Nut, M12, Nyloc
4	*	1	. Link arm
	000043	2	. . Bolt, M16 x 90mm
	011060	2	. . Nut, M16, Nyloc
5	032586	1	. 'V' Bracket
6	028406	1	. Winch
7	028645	1	Winch cable

Notes:-

* Before ordering these items please contact the Scarab Parts Department quoting machine serial number and model.



Spare wheel omitted to aid clarity

Spare Wheel Carrier

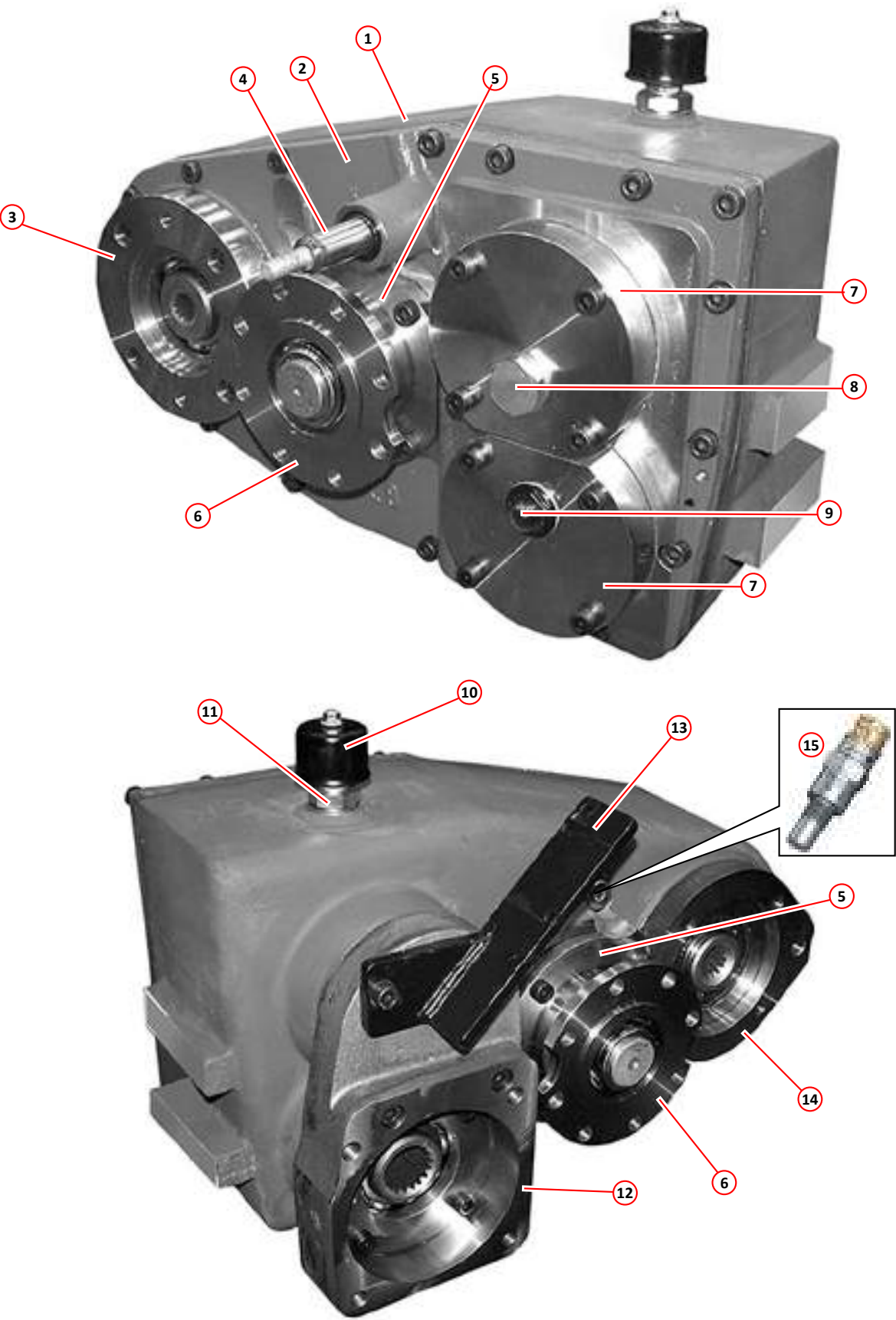
Transmission

<i>Assembly/Description</i>	<i>Page</i>
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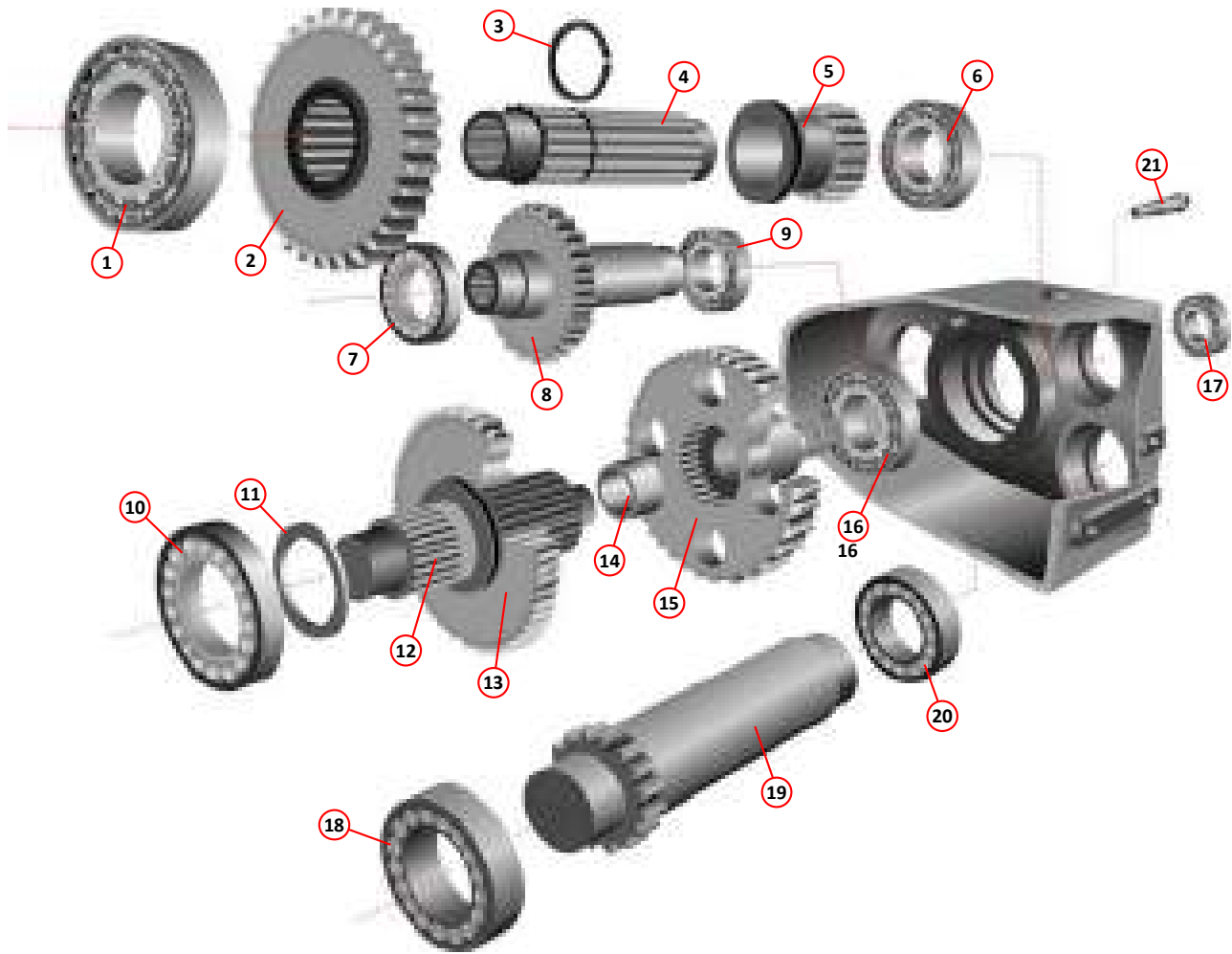
Item	Part Number	Quantity	Description
Scarab Hydrostatic Gearbox Assembly *			
1	014439	1	Casing, gearbox
2	014438	1	. Cover, gearbox
	011408	11	. . Screw, socket cap head, M10 x 30mm
		6	. . Screw, socket cap head, M10 x 35mm
NI	014505	1	. . Gasket, gearbox cover
3	014484	1	. . Boss, fan pump
	011028	4	. . . Screw, socket cap head, M10 x 25mm
4	024140	1	. . Shaft, selector
5	049730	1	. . Seal cap, gearbox v2
	011028	4	. . . Screw, socket cap head, M10 x 25mm
6	014433	1	. . Flange, input/output
7	014480	2	. . Bearing cap, motor/pinion gear shaft
	000070	8	. . . Screw, socket cap head, M10 x 50mm
NI	014503	2	. . Gasket, bearing cap
8	038570	1	. . . Plug, $\frac{3}{4}$ " BSP
9	014491	1	. . . Sight glass, gearbox oil level
10	020688	1	. . Filter/air breather
NI	011152	1	. . . Seal, Dowty, $\frac{1}{4}$ " BSP
11	021524	1	. . . Adaptor, $\frac{3}{4}$ x $\frac{1}{4}$ " BSP, M/F
NI	011155	1	 Seal, Dowty, $\frac{3}{4}$ " BSP
12	020341	1	. Motor plate (R type gearboxes)
	000070	6	. . Screw, socket cap head, M10 x 50mm
NI	014503	1	. . Gasket, motor plate
13	020501	1	. . Support bracket, gear change, pneumatic cylinder
14	014485	1	. Boss, gearbox pump
	011028	4	. . Screw, socket cap head, M10 x 25mm
15	046739	1	Gearbox speed sensor 34mm, DTCO 4 compliant Page 556

Notes:-

- * Service Exchange Units are available. When ordering a complete service exchange gearbox, please contact Scarab Parts Department quoting, your machine serial number and model.
 For an exploded illustration of internal parts, refer to Page 600.
 For more detail and an exploded illustration of external parts, refer to Page 602.



<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Scarab Hydrostatic Gearbox Internal Parts			
1	014579	1	Roller bearing, NJ309-E-TVP2
2	014425	1	Gearwheel 40T
2	014426	1	Gearwheel 42T
3	014495	1	Circlip 52mm
4	014431	1	Splined shaft
5	014423	1	Gearwheel 19T
6	014579	1	Roller bearing, NJ309-E-TVP2
7	013773	1	Ball bearing, 6211
8	020343	1	Gearwheel 36T
8	014427	1	Gearwheel 38T
8	020034	1	Gearwheel 43T
9	014581	1	Roller bearing, NJ211EC
10	013771	1	Ball bearing, 6310NR
11	014421	1	Washer 51x65x3
12	014432	1	Splined shaft
13	020035	1	Gearwheel, 41T
13	014428	1	Gearwheel, 46T
13	020342	1	Gearwheel, 48T
14	014494	1	Needle bearing, K30x40x30
15	014422	1	Gearwheel, 62T
16	014493	1	Roller bearing, NJ314-E-TVP2
17	013771	1	Ball bearing, 6310NR
18	014581	1	Roller bearing, NJ211EC
19	020528	1	Gearwheel, 19T
19	020529	1	Gearwheel, 21T
20	013773	1	Ball bearing, 6211
21	046739	1	Gearbox speed sensor, 34mm, DTCO 4 compliant Page 556

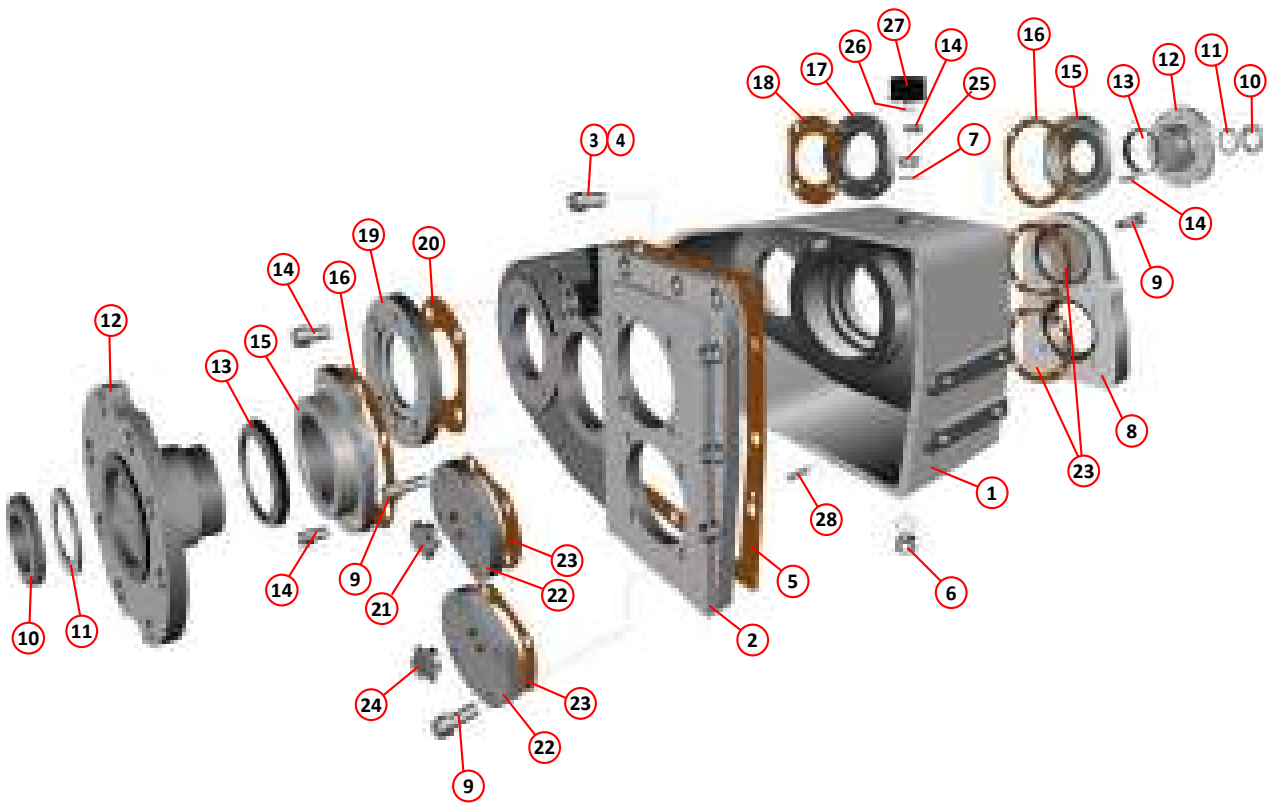


Scarab Hydrostatic Gearbox Internal Parts

Item	Part Number	Quantity	Description
Scarab Hydrostatic Gearbox External Parts			
1	014439	1	Gearbox casing
2	014438	1	Gearbox cover
3	011408	11	Socket cap head, M10 x 30mm
4	011029	6	Socket cap head, M10 x 35mm
5	014505	1	Gasket
6	021316	1	Plug, magnetic, $\frac{3}{4}$ " BSP
7	011155	1	Seal, dowty, $\frac{3}{4}$ " BSP
8	020341	1	Motor plate
9	000070	16	Socket cap head, M10 x 50mm
NI	014503	1	Gasket
10	014498 *	2	Lock ring M40 x 1.5mm
11	014499	2	Washer
12	014433	1	Flange
13	042297	1	Seal kit, 2 seals and fitting tool
14	011028	11	Socket cap head, M10 x 25mm
15	049730		1 Seal cap, gearbox v2
16	014502	2	Gasket
17	022392	1	Drive pump plate
18	014504	1	Gasket
19	014484	1	Fan pump plate
20	014504	1	Gasket
21	038570	1	Plug, $\frac{3}{4}$ " BSP
22	014480	2	Bearing cap
23	014503	4	Gasket
24	014491	1	Sight glass, gearbox oil level
25	021524	1	Adaptor, M/F, $\frac{3}{4}$ " BSP x $\frac{1}{4}$ " BSP
26	021524	1	Seal, dowty, $\frac{1}{4}$ " BSP
27	020688	1	Filler cap
28	014490	2	Dowel

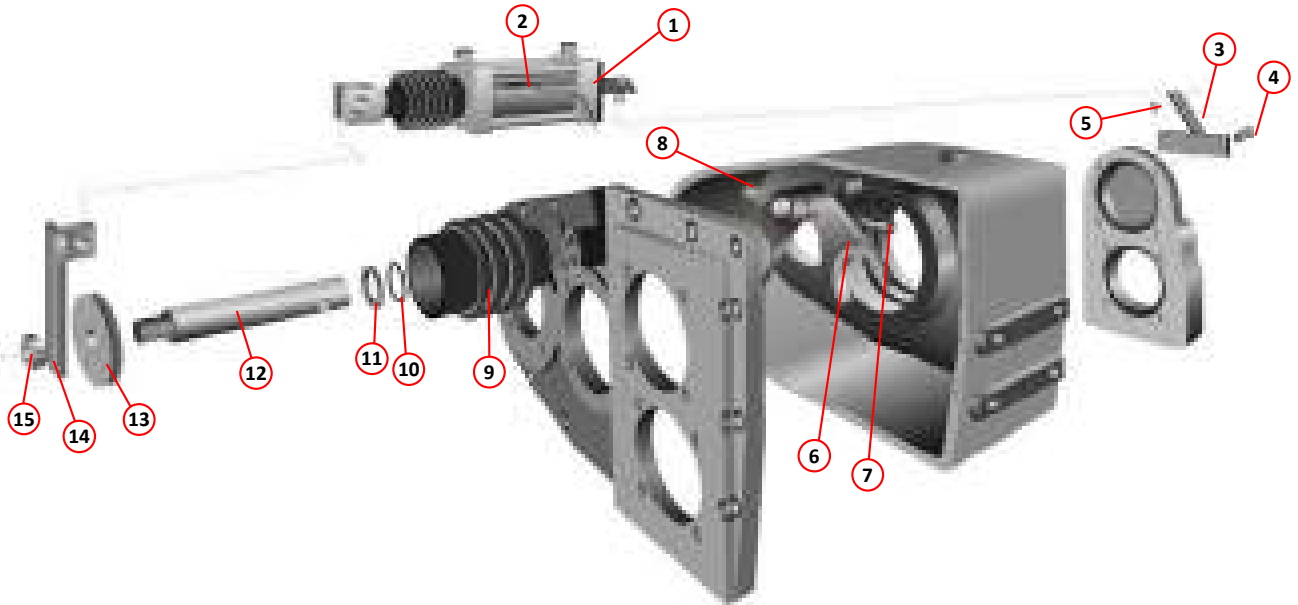
Notes:-

* Use special tool Part Number 021931 available from Scarab Sweepers Parts Department.



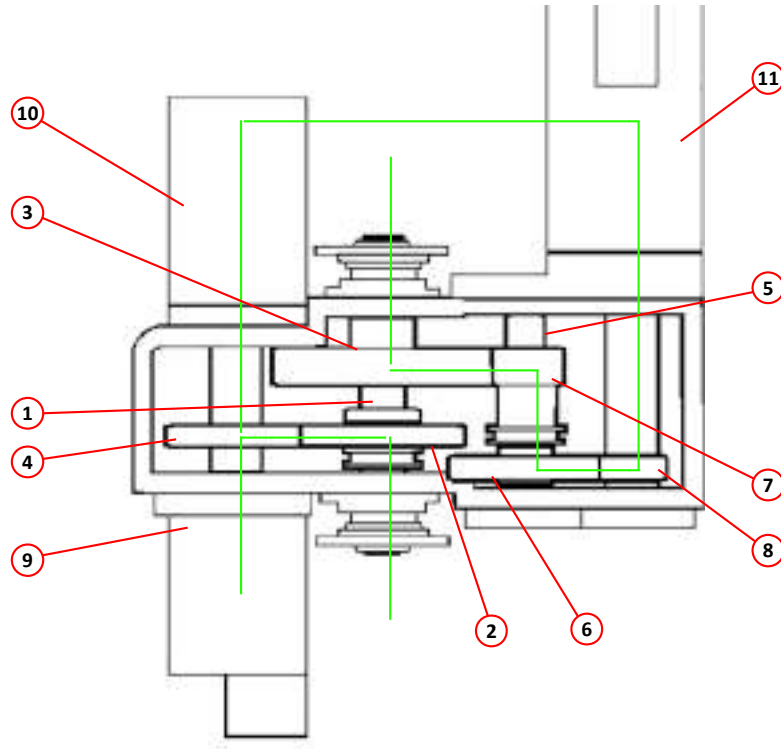
Scarab Hydrostatic Gearbox External Parts

Item	Part Number	Quantity	Description
Scarab Hydrostatic Gearbox Changer Arrangement			
1	020287	1	Gear change pneumatic cylinder Page 542
2	036800	2	Magnetic sensor Page 556
3	020501	1	Support, pneumatic cylinder
4	000101	1	Socket cap head, M10 x 55mm
5	011075	1	Nut, M10, Nyloc
6	014486	1	Selector fork
7	000108	1	Socket cap head, M8 x 45mm
8	011073	1	Nut, M8, Nyloc
9	014473	1	Bellows
10	013774	1	O-ring, 22mm x 3.5mm
11	013775	1	Rubber seal
12	024140	1	Shaft
13	021089	1	Collar
14	020292	1	Arm
15	011076	1	Nut, M12

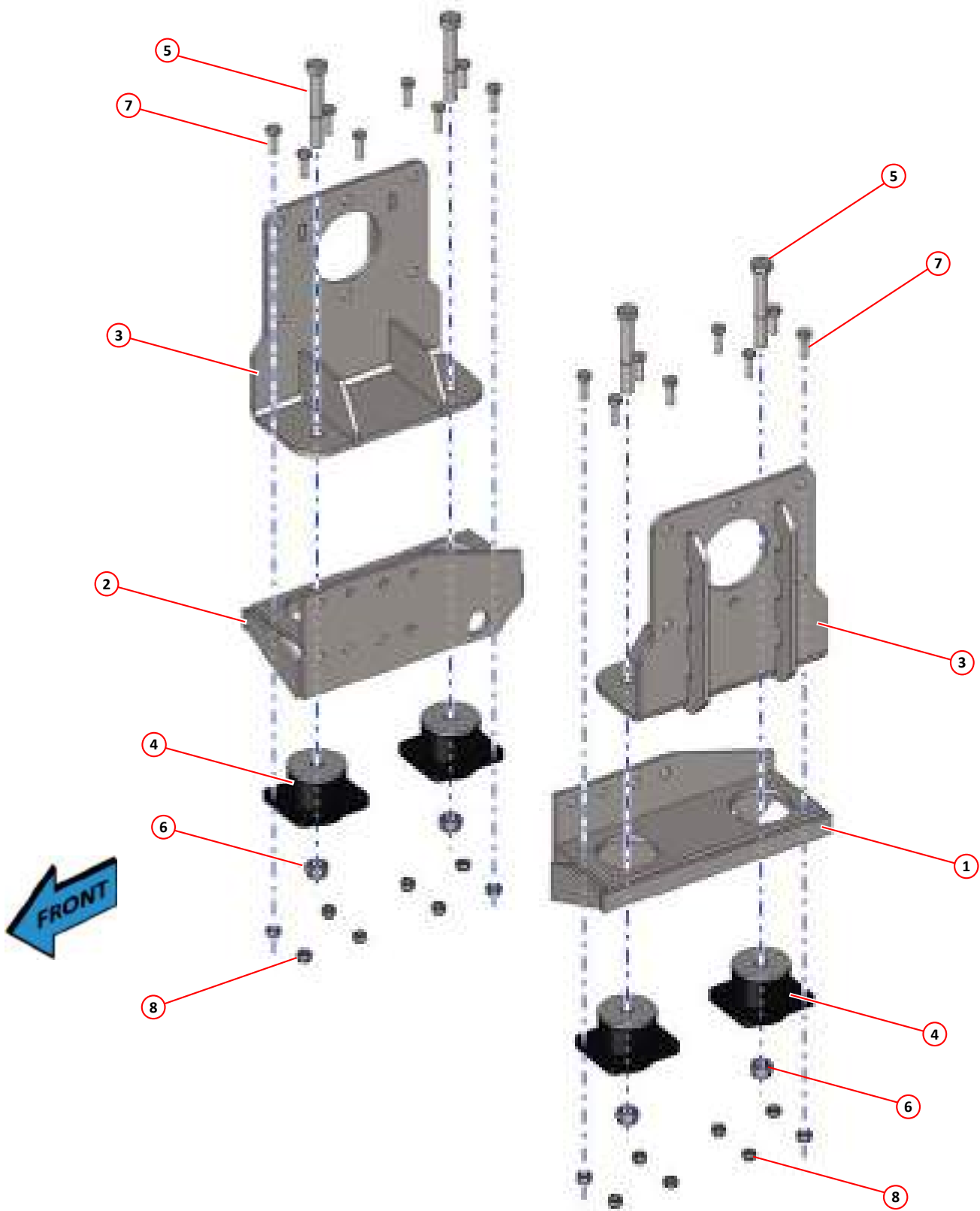


Scarab Hydrostatic Gearbox Changer Arrangement

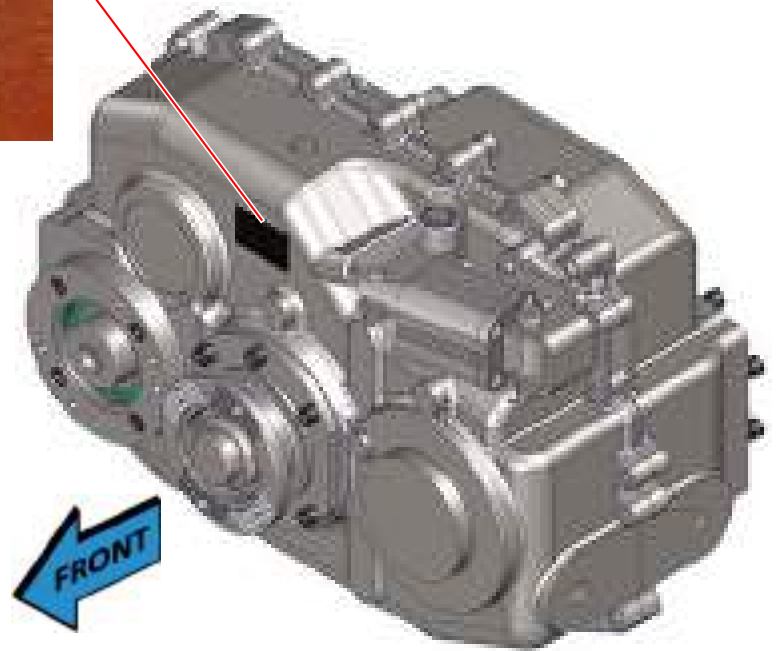
<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Gearbox Build, Pump, Motor & Ratio Configurations			
1	014432	1	Shaft, gearbox input
2	020035	1	Gear, input, 41 tooth (used on gearboxes, 6R, 9R)
2	014428	1	Gear, input, 46 tooth (used on gearboxes, 7R, 10R)
2	020342	1	Gear, input, 48 tooth (used on gearboxes, 8R, 11R)
3	014422	1	Gear, output, 62 tooth
4	020343	1	Gear, 36 tooth (used on gearboxes, 8R, 11R)
4	014427	1	Gear, 38 tooth (used on gearboxes, 7R, 10R)
4	020034	1	Gear, 43 tooth (used on gearboxes, 6R, 9R)
5	014431	1	Shaft, splined
6	014425	1	Gear, 40 tooth (used on gearboxes, 2F, 6R, 7R, 8R)
6	014426	1	Gear, 42 tooth (used on gearboxes, 9R, 10R, 11R)
7	014423	1	Gear, pinion, 19 tooth (used on all gearboxes)
8	020528	1	Gear, motor shaft, 19 tooth (used on gearboxes 9R, 10R, 11R)
8	020529	1	Gear, motor shaft, 21 tooth (used on gearboxes 6R, 7R, 8R)
9	023620	1	Pump, hydraulic, fan Page 506
9	024770	1	Pump, hydraulic, fan (French option) Page 506
NI	013301	2	. Gasket
10	037015	1	Pump, hydraulic, drive Page 504
NI	013196	2	. Gasket
11	040705	1	Motor Assembly, hydraulic, drive motor Page 504
NI	021414	2	. Gasket



Scarab Gearbox Pump, Motor and Ratio Build Configurations



Item	Part Number	Quantity	Description
Gearbox mounting - Standard			
1	027702	1	Bracket, gearbox standard, 3°, left hand, attaches to gearbox
2	027703	1	Bracket, gearbox standard, 3°, right hand, attaches to gearbox
3	047727	2	Gearbox bracket, standard, attaches to vehicle chassis
4	033838	4	Anti-vibration mounting, MS243/5 (HD type)
5	011423	4	Bolt HT M16 x 110
6	011060	4	Nyloc nut T M16
7	011032	16	Setscrew HT M10 x30
8	011075	16	Nyloc nut T M10

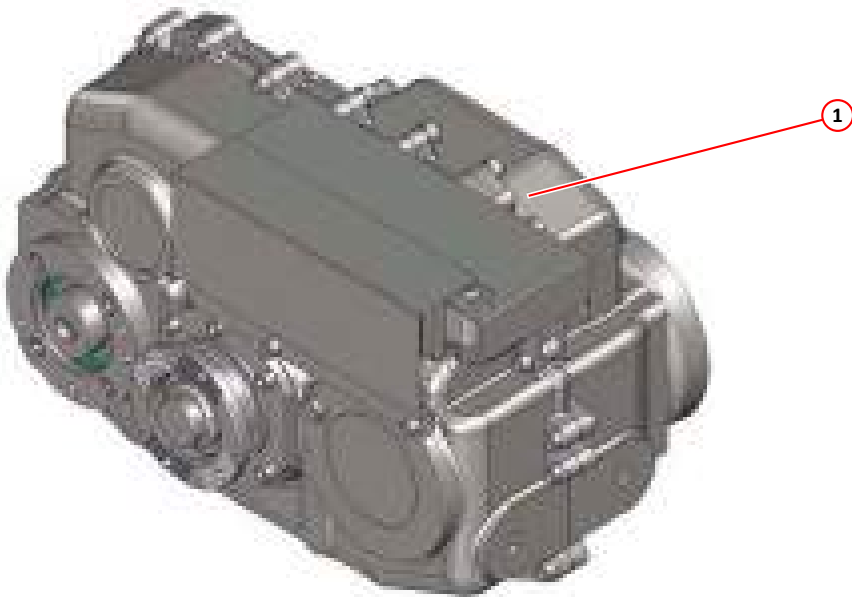


Rögelberg HP Gearbox Identification

Due to constant improvements and requirements there are differing part numbers for some of these gearboxes and it imperative that the correct identification of the gearbox is made before ordering any parts for these gearboxes.

The identification plate is located on the front of the gearbox. These numbers are as follows, top to bottom, gearbox type, Scarab part number, gearbox serial number.

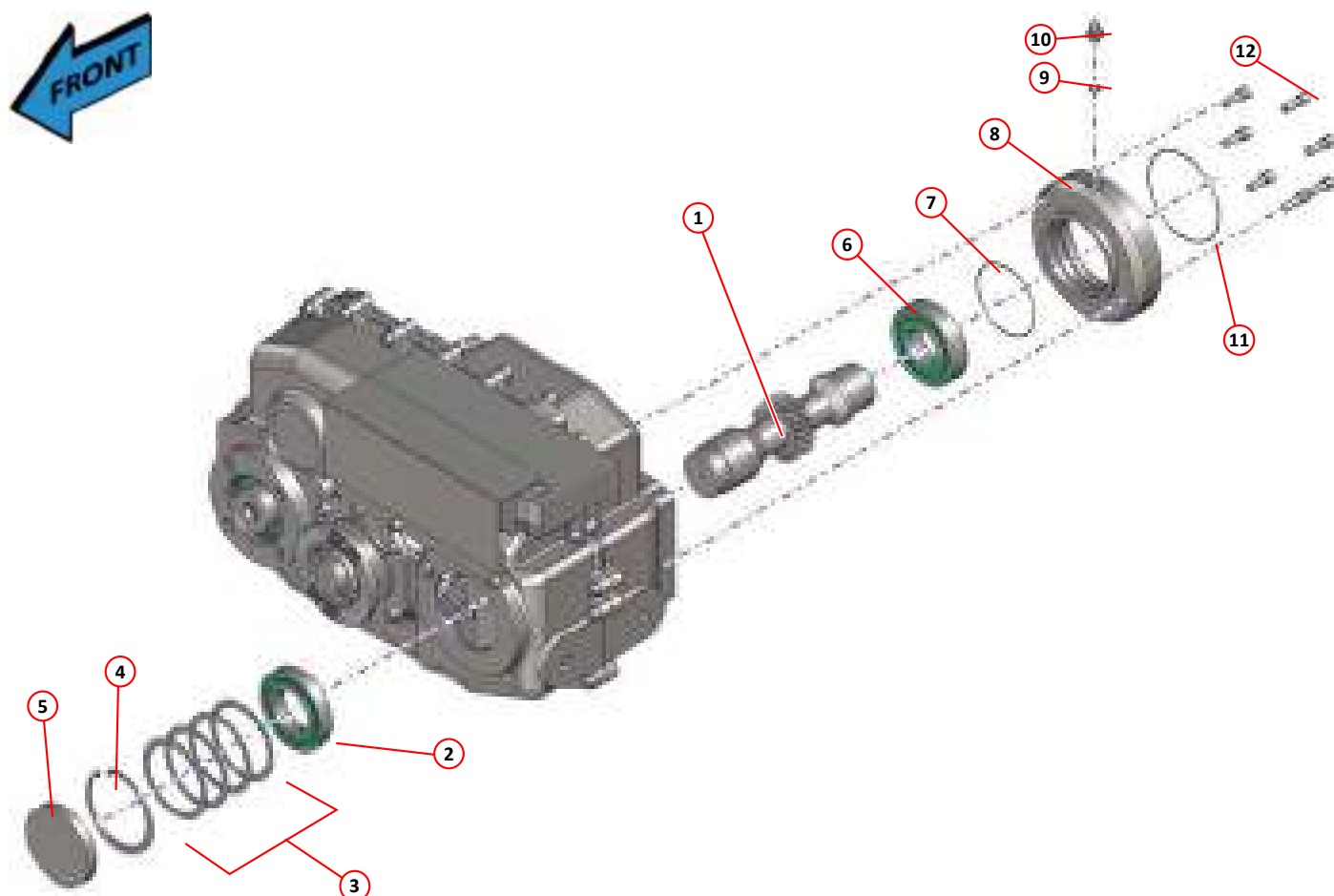
All three of these numbers must be quoted, along with the serial number of the sweeper, with any required parts for these gearboxes.



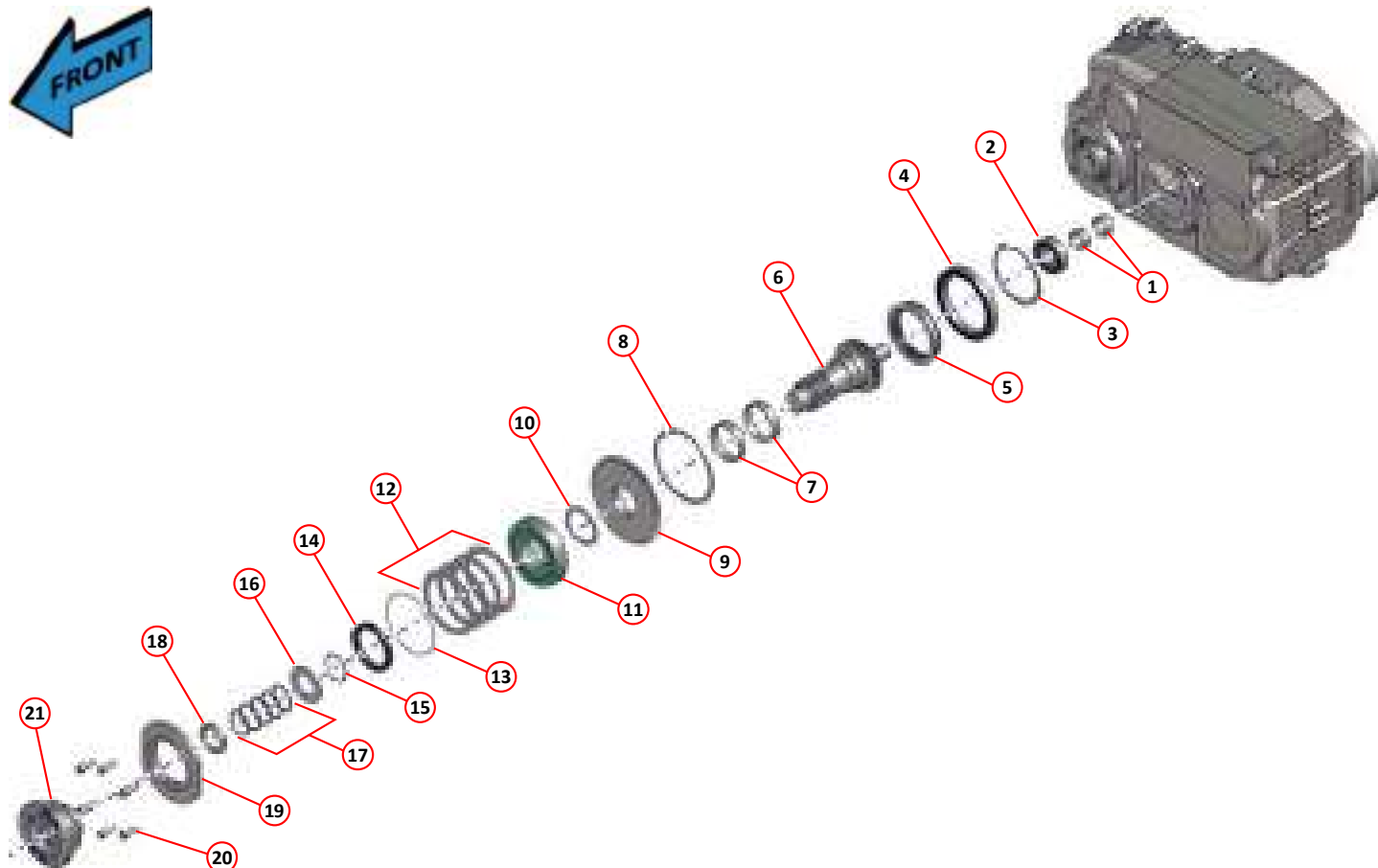
Item	Part Number	Type	Qty	Description
HP-R-1 Gearbox - Rögelberg				
1	SCA045327	6443-A-1	1	Rögelberg, complete assembly
1	SCA045327	6443-M-2	1	Rögelberg, complete assembly
1	SCA04xxxx	6443-M-5	1	Rögelberg, complete assembly
1	SCA047325	6443-M-8	1	Rögelberg, complete assembly
1	SCA047635	6443-M-11	1	Rögelberg, complete assembly

 If Type is not shown then it is for all versions of the HP-R-1 gearbox

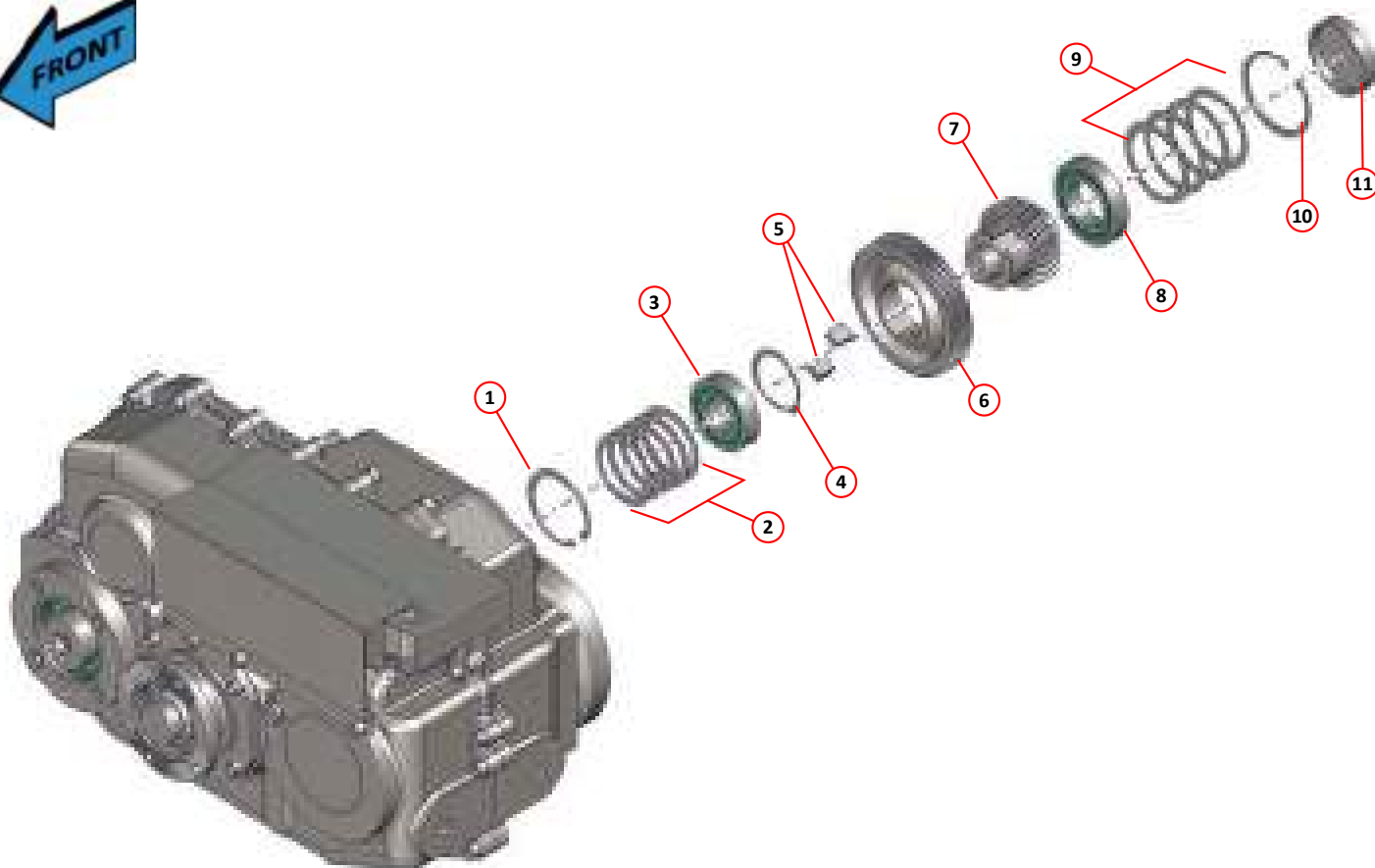
 The images shown on the following pages for the gearboxes and associated parts are reference only and are not representative of assembly or disassembly order.



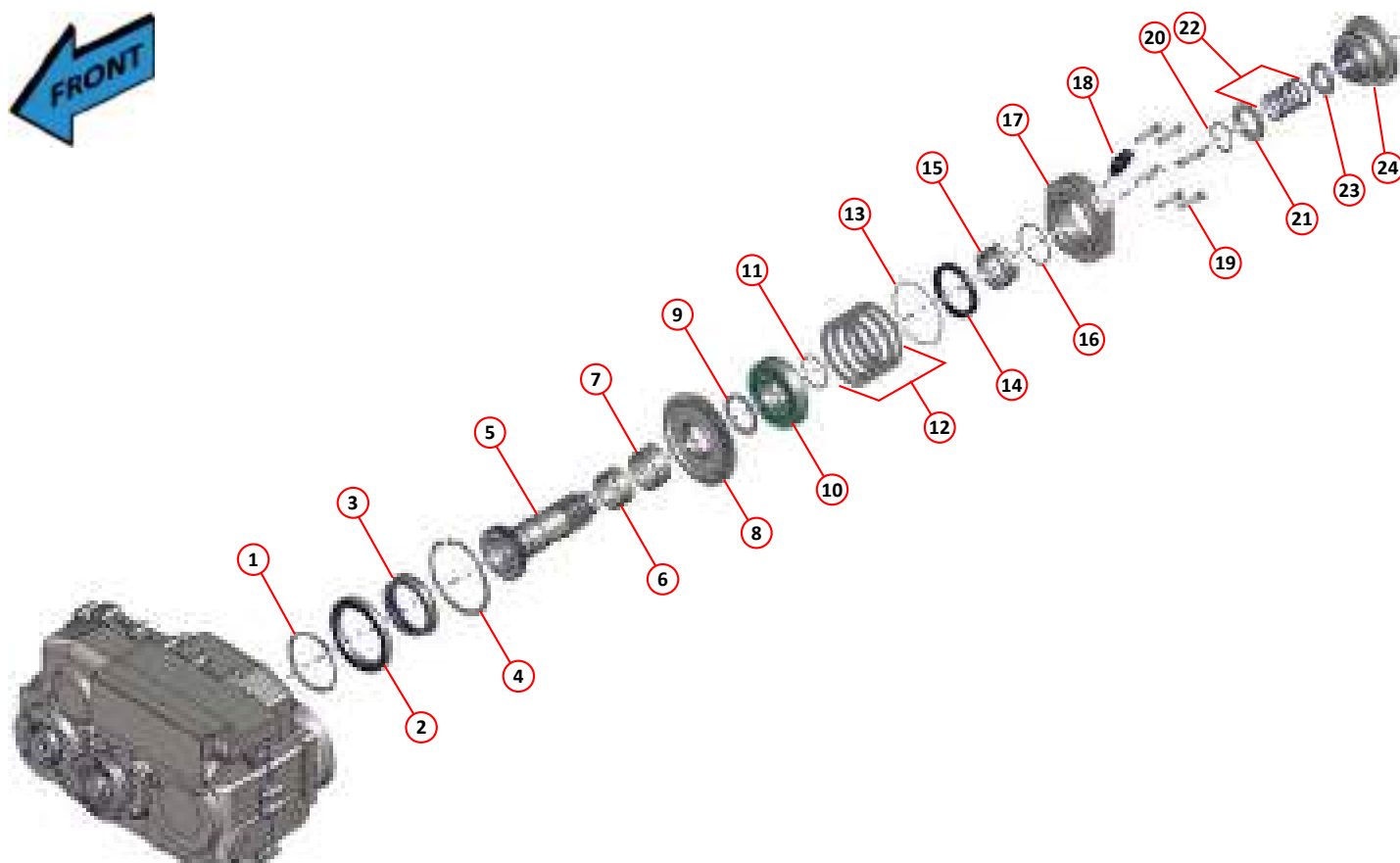
Item	Part Number	Type	Qty	Description
Pinion Shaft Drive Motor - HP-R-1 Gearbox - Rögelberg				
1	046306		1	Pinion shaft, drive motor
2	046334		1	Bearing, drive motor/pump
3	046371	As Req		Shim, DIN988, 100 x 120 x 0.5
3	046372	As Req		Shim, DIN988, 100 x 120 x 0.3
3	046373	As Req		Shim, DIN988, 100 x 120 x 0.1
4	046344		1	Retaining ring
5	046354		1	Plug cover
6	046335		1	Bearing, drive motor
7	046362		1	O-ring, drive pump/motor
8	046298		1	Flange, retaining
9	046411		1	Seal, breather
10	046408		1	Breather, M12 x 1.5
11	046363		1	O-ring, drive motor
12	046389		7	Bolt M12 x 30



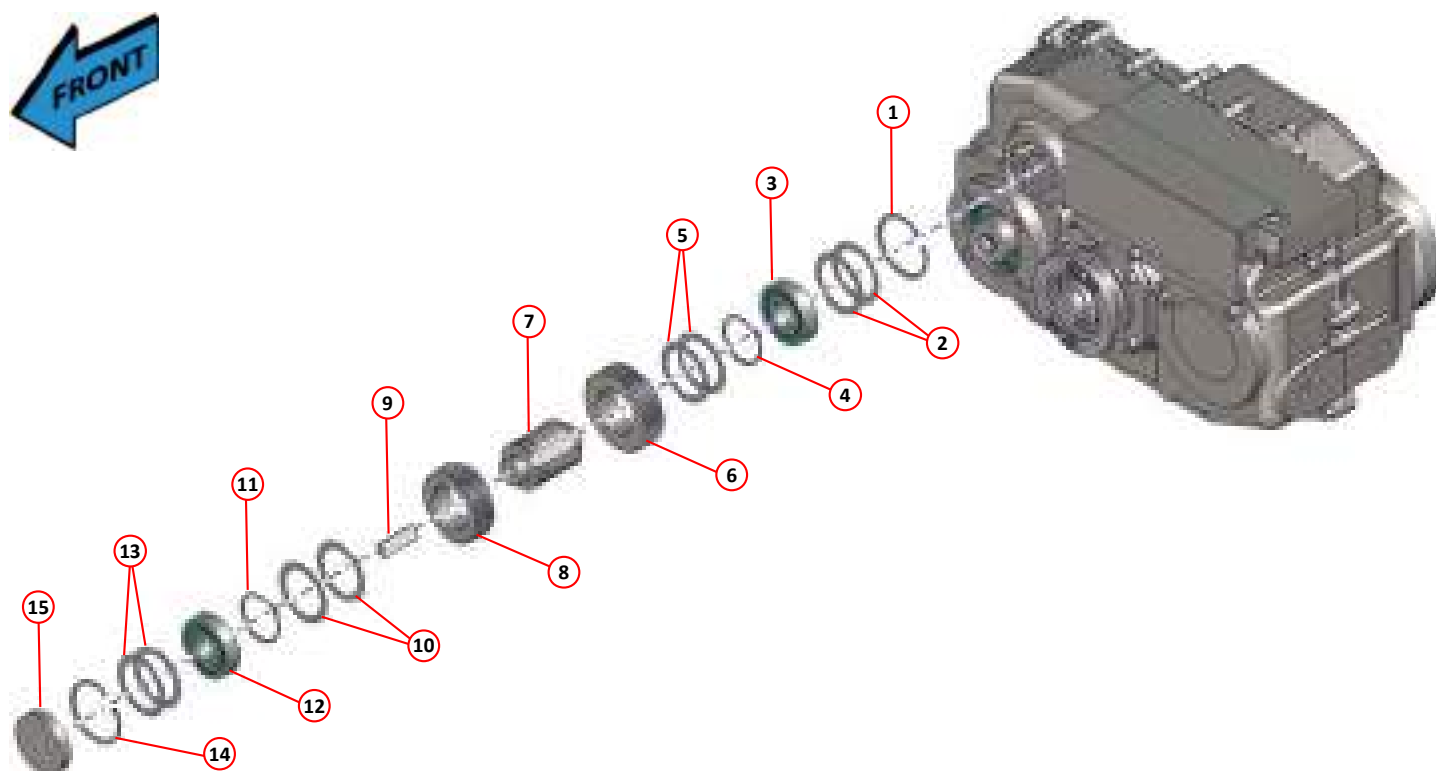
Item	Part Number	Type	Qty	Description
Pinion Shaft Input - HP-R-1 Gearbox - Rögelberg				
1	046340		2	Sleeve, input shaft
2	046331		1	Taper bearing, input
3	046345		1	Retaining ring, input/output
4	046336		1	Bearing, input/output
5	046311		1	Shifting ring, input
6	046300		1	Pinion shaft, input
7	046337		2	Needle bearing, input
8	046346		1	Retaining ring, input/output
9	046301		1	Spur gear, input
10	046316		1	Washer, output
11	046330		1	Bearing, input/output
12	046385	As Req		Shim, DIN988, 120 x 150 x 0.1
12	046386	As Req		Shim, DIN988, 120 x 150 x 0.3
12	046387	As Req		Shim, DIN988, 120 x 150 x 0.5
13	046358		1	O-ring, input/output
14	046350		1	Seal, radial shaft, input
15	046357		1	O-ring, input/output
16	046315		1	Washer, output/input
17	046374	As Req		Shim, DIN988, 50 x 62 x 1.0
17	046375	As Req		Shim, DIN988, 50 x 62 x 0.5
17	046376	As Req		Shim, DIN988, 50 x 62 x 0.3
17	046377	As Req		Shim, DIN988, 50 x 62 x 0.1
18	046403		1	Locknut, M50 x 1.5
19	046294		1	Flange, retaining, input
20	046389		6	Bolt M12 x 30
21	046299		1	Flange, input/output



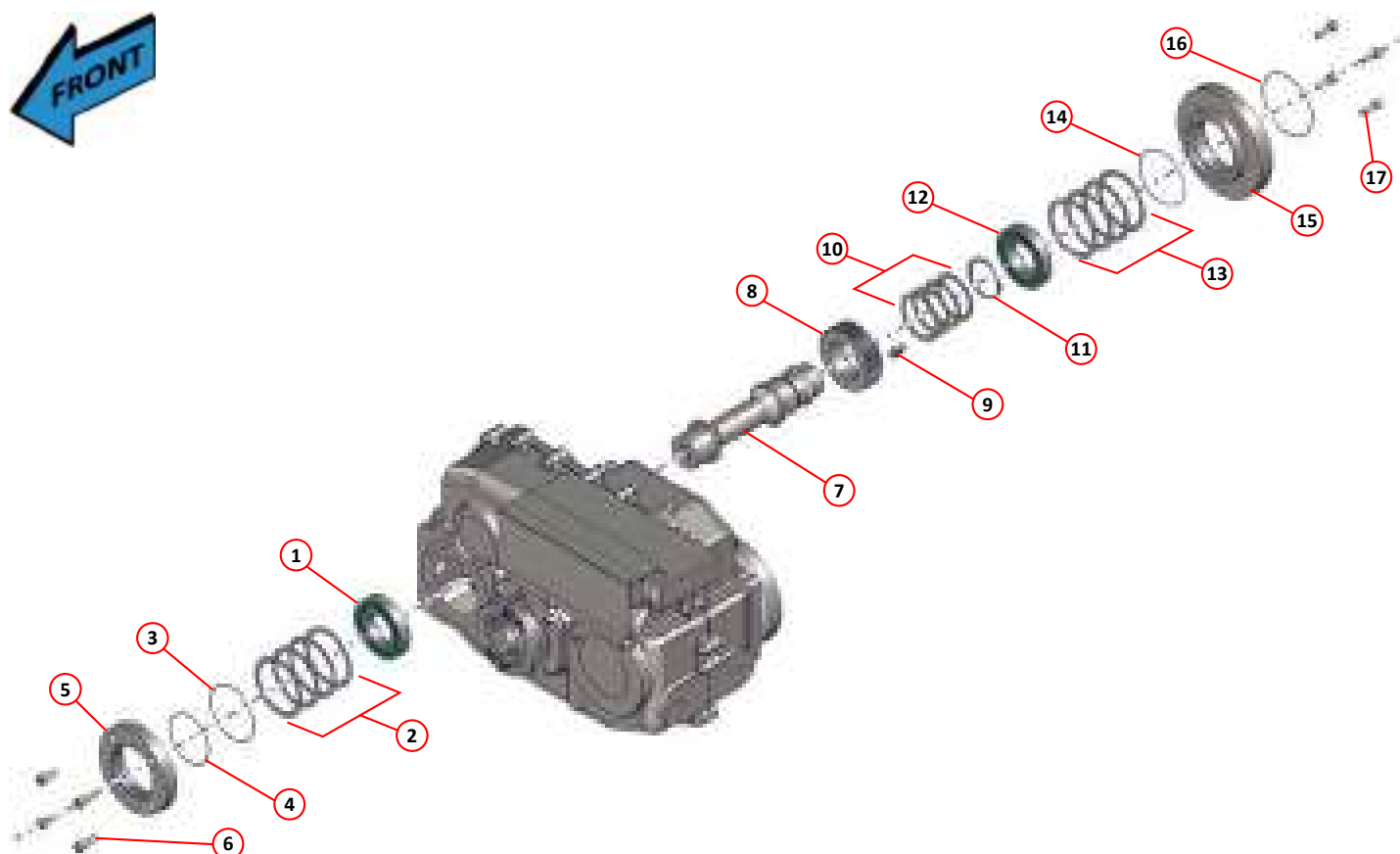
Item	Part Number	Type	Qty	Description
Pinion Shaft - HP-R-1 Gearbox - Rögelberg				
1	046342		1	Retaining ring, input/layshaft
2	046368	As Req		Shim, DIN988, 70 x 90 x 0.5
2	046369	As Req		Shim, DIN988, 70 x 90 x 0.3
2	046370	As Req		Shim, DIN988, 70 x 90 x 0.1
3	046332		1	Taper bearing. input/layshaft
4	046341		1	Retaining ring, input/layshaft
5	046398		2	Key 20 x 12 x 2
6	046307		1	Spur gear
7	046308		1	Pinion shaft
8	046333		1	Taper bearing, layshaft
9	046365	As Req		Shim, DIN988, 80 x 100 x 0.5
9	046366	As Req		Shim, DIN988, 80 x 100 x 0.3
9	046367	As Req		Shim, DIN988, 80 x 100 x 0.1
10	046343		1	Retaining ring, layshaft
11	046356		1	Plug cover, layshaft



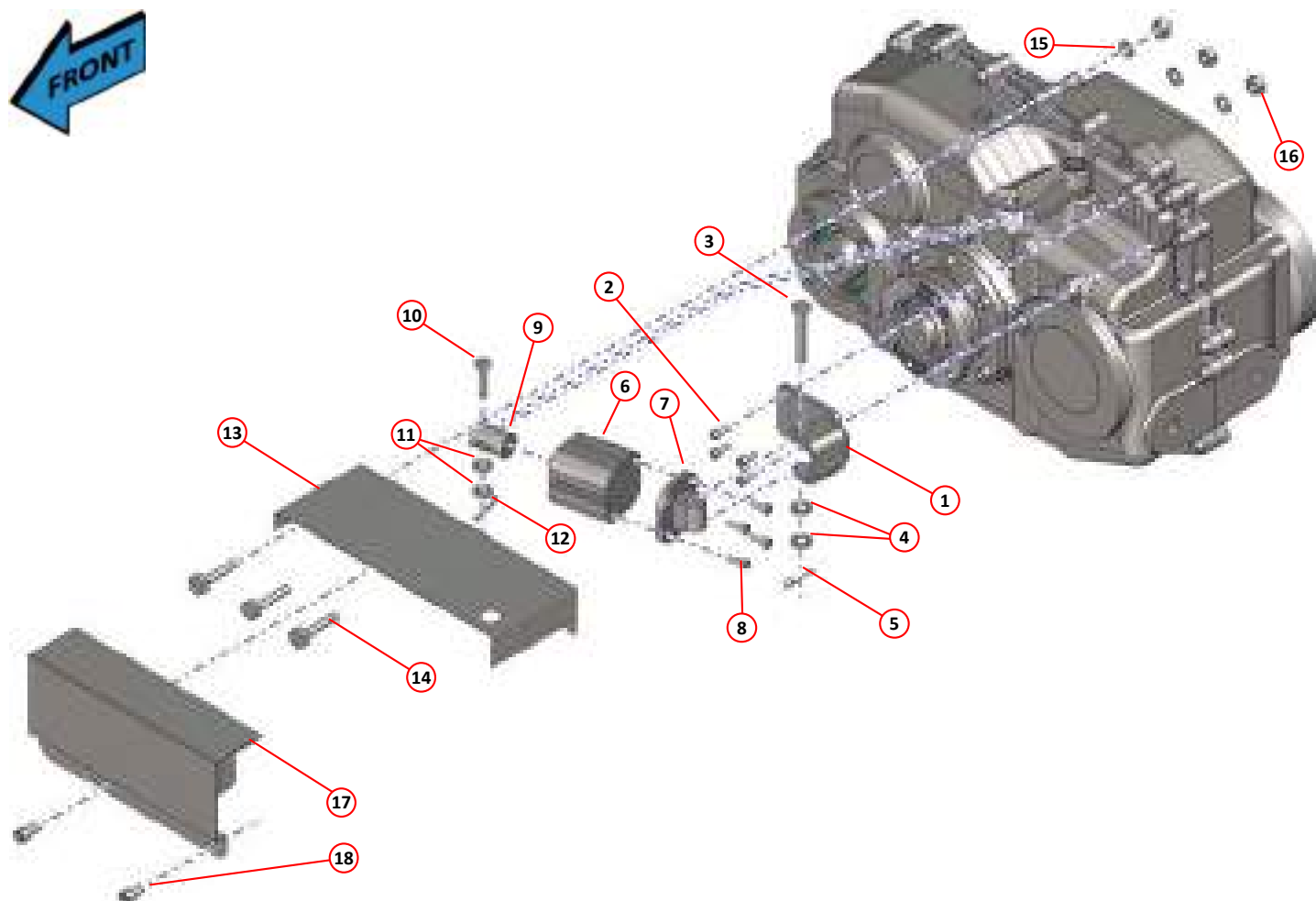
Item	Part Number	Qty	Description
Pinion Shaft Output - HP-R-1 Gearbox - Rögelberg			
1	046345	1	Retaining ring, input/output
2	046336	1	Bearing, input/output
3	046312	1	Shifting ring, output
4	046346	1	Retaining ring, input/output
5	046310	1	Pinion shaft, output
6	046338	1	Needle bearing, inner, output
7	046339	1	Needle bearing, outer, output
8	046309	1	Spur gear, output
9	046316	1	Washer, output
10	046330	1	Bearing, input/output
11	046359	1	O-ring, input/output
12	046385	As Req	Shim, DIN988, 120 x 150 x 0.1
12	046386	As Req	Shim, DIN988, 120 x 150 x 0.3
12	046387	As Req	Shim, DIN988, 120 x 150 x 0.5
13	046358	1	O-ring, input/output
14	046351	1	Seal, radial shaft, input
15	046314	1	Bushing, output
16	046364	1	O-ring, output
17	046295	1	Flange, retaining, output
18	046738	1	Gearbox speed sensor 19mm, DTCO 4 compliant Page 556
19	046377	6	Bolt M12 x 55
20	046357	1	O-ring, input/output
21	046315	1	Washer, output/input
22	046374	As Req	Shim, DIN988, 50 x 62 x 1.0
22	046375	As Req	Shim, DIN988, 50 x 62 x 0.5
22	046376	As Req	Shim, DIN988, 50 x 62 x 0.3
22	046377	As Req	Shim, DIN988, 50 x 62 x 0.1
23	046403	1	Locknut, M50 x 1.5
24k	046299	1	Flange, input/output



Item	Part Number	Type	Qty	Description
Shaft Input - HP-R-1 Gearbox - Rögberg				
1	046342		1	Retaining ring, input/layshaft
2	046368	As Req		Shim, DIN988, 70 x 90 x 0.5
2	046369	As Req		Shim, DIN988, 70 x 90 x 0.3
2	046370	As Req		Shim, DIN988, 70 x 90 x 0.1
3	046332		1	Taper bearing, input/layshaft
4	046341		1	Retaining ring, input/layshaft
5	046368	As Req		Shim, DIN988, 70 x 90 x 0.5
5	046369	As Req		Shim, DIN988, 70 x 90 x 0.3
5	046370	As Req		Shim, DIN988, 70 x 90 x 0.1
6	046398		2	Key 20 x 12 x 2
7	046307		1	Spur gear
8	046308		1	Pinion shaft
9	046333		1	Taper bearing, layshaft
10	046368	As Req		Shim, DIN988, 70 x 90 x 0.5
10	046369	As Req		Shim, DIN988, 70 x 90 x 0.3
10	046370	As Req		Shim, DIN988, 70 x 90 x 0.1
11	046343		1	Retaining ring, layshaft
12	046356		1	Plug cover, layshaft
13	046368	As Req		Shim, DIN988, 70 x 90 x 0.5
13	046369	As Req		Shim, DIN988, 70 x 90 x 0.3
13	046370	As Req		Shim, DIN988, 70 x 90 x 0.1
14	046342		1	Retaining ring, input/layshaft
15	046353		1	Plug cover, input



Item	Part Number	Type	Qty	Description
Input Shaft Drive Pump - HP-R-1 Gearbox - Rögelberg				
1	046334		1	Bearing, drive motor/pump
2	046371	As Req		Shim, DIN988, 100 x 120 x 0.5
2	046372	As Req		Shim, DIN988, 100 x 120 x 0.3
2	046373	As Req		Shim, DIN988, 100 x 120 x 0.1
3	046362		1	O-ring, drive pump/motor
4	046360		1	O-ring, drive pump
5	046297		1	Flange retaining, drive pump, inner
6	046389		4	Bolt, M12 x 30
7	046305		1	Input shaft, drive pump
8	046421		1	Spur gear, drive pump
9	046400		1	Key 20 x 12 x 28
10	046382	As Req		Shim, DIN988, 75 x 95 x 0.5
10	046383	As Req		Shim, DIN988, 75 x 95x 0.3
10	046384	As Req		Shim, DIN988, 75 x 95 x 0.1
11	046349		1	Retaining ring, drive pump
12	046334		1	Bearing, drive motor/pump
13	046371	As Req		Shim, DIN988, 100 x 120 x 0.5
13	046372	As Req		Shim, DIN988, 100 x 120 x 0.3
13	046373	As Req		Shim, DIN988, 100 x 120 x 0.1
14	046362		1	O-ring, drive pump/motor
15	046296		1	Flange retaining, drive pump, outer
16	046361		1	O-ring, drive pump
17	046391		4	Bolt, M12 x 35



Item	Part Number	Type	Qty	Description
Shifting Pneumatic Cylinder - HP-R-1 Gearbox - Rögelberg				
1	046319		1	Mounting bracket, adapter ram
2	046392		4	Bolt, M8 x 20
3	046328		1	Clevis pin, rear
3	047336 *		1	Clevis pin, rear
4	046417		2	Washer, M16R
5	046395		1	Split pin, 4 x40
6	046396		1	Pneumatic cylinder
6	047343 *		1	Pneumatic cylinder
7	046397		1	Cylinder fixing eye
7	047343 *		1	Cylinder fixing eye
8	046392		4	Bolt, M8 x 20
9	046324		1	Clevis, adapter
9	047335 *		1	Clevis, adapter
10	046327		2	Clevis pin, front
11	046416		2	Washer, M12
12	046395		1	Split pin, 4 x40
13	046383		3	Cover, rear
14	046413 †		3	Bolt, M12 x 60
15	046414 †		3	Washer, M12
16	046415 †		3	Nut, hex , M12
17	046320		1	Cover, front
17	046320		1	Cover, front
18	046393		2	Bolt, M12 x 20

Notes:-

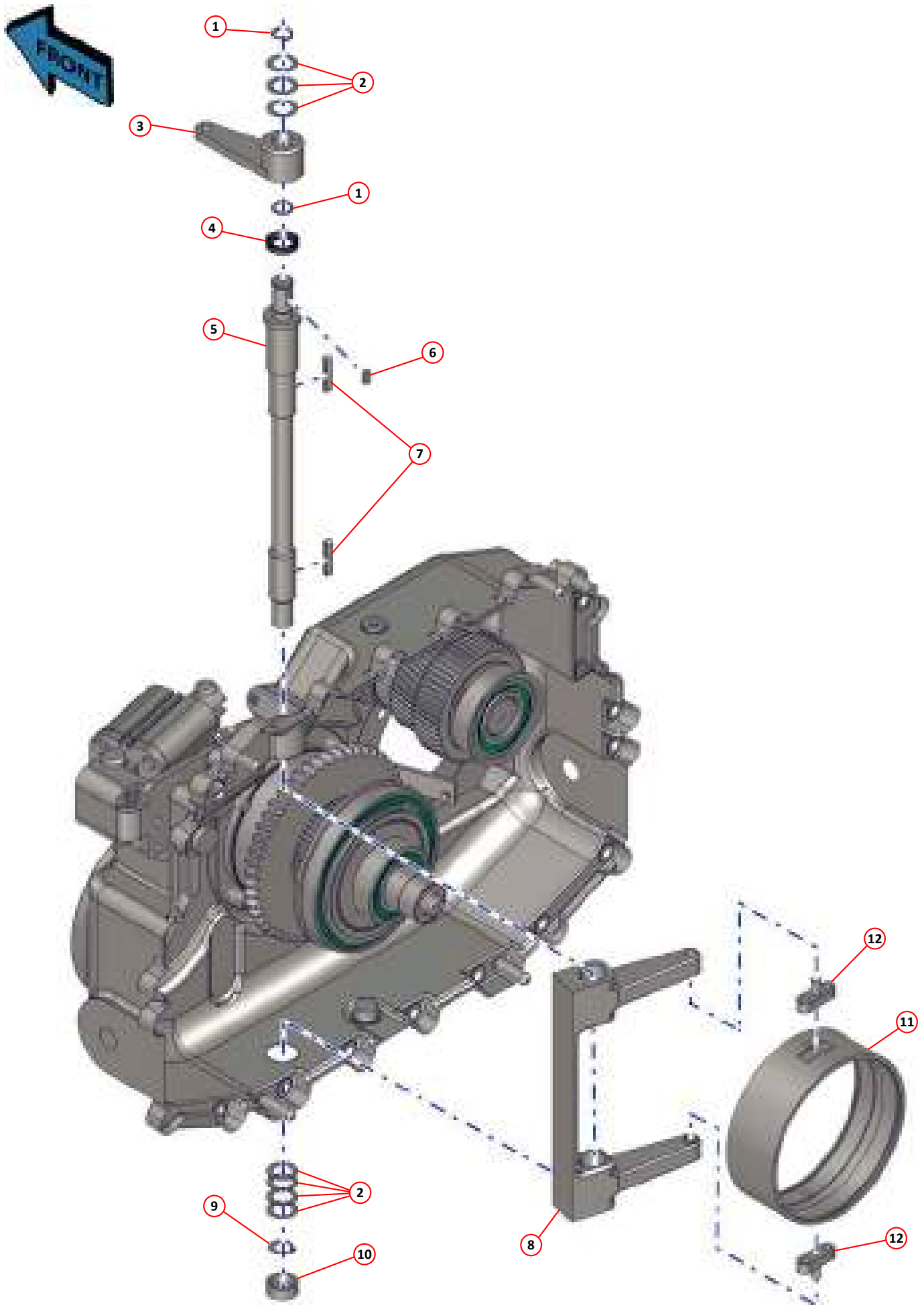
* For gearbox ID 6443-M-8 and 6443-M-11

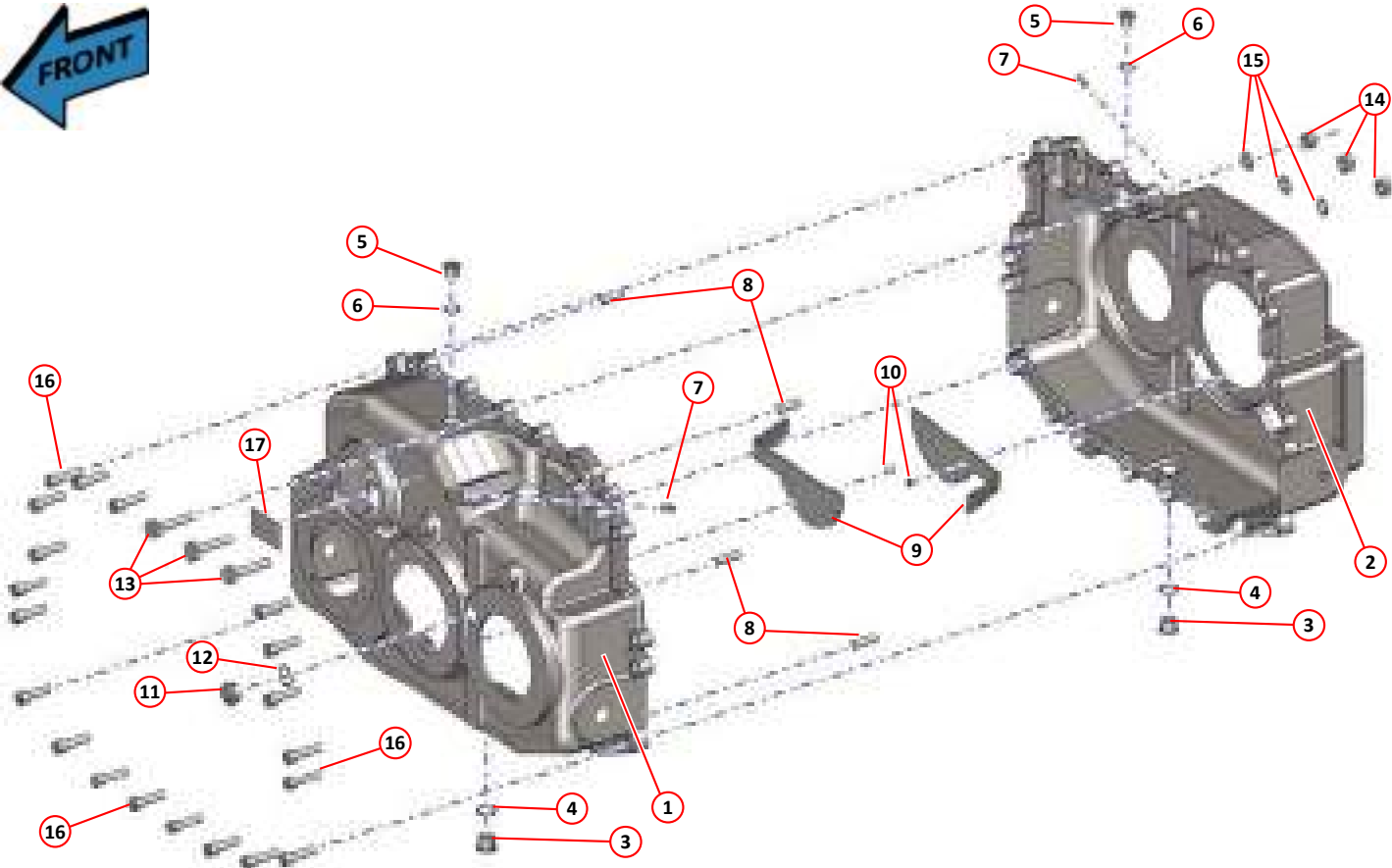
† These items are fixings of the case, shown here for reference. See page 620.

<i>Item</i>	<i>Part Number</i>	<i>Type</i>	<i>Qty</i>	<i>Description</i>
Selector Mechanism - HP-R-1 Gearbox - Rögelberg				
1	046347		2	Retaining ring, selector shaft
2	046378		As Req	Shim, DIN988, 20 x 28 x 0.5
2	047338 *		As Req	Shim, DIN988, 20 x 28 x 0.5
2	046379		As Req	Shim, DIN988, 20 x 28 x 0.3
2	047339 *		As Req	Shim, DIN988, 20 x 28 x 0.3
2	046380		As Req	Shim, DIN988, 20 x 28 x 0.1
2	044740 *		As Req	Shim, DIN988, 20 x 28 x 0.1
2	046381		As Req	Shim, DIN988, 20 x 28 x 1.0
2	047431 *		As Req	Shim, DIN988, 20 x 28 x 1.0
3	046322		1	Shifting lever
3	047334 *		1	Shifting lever
4	046352		1	Seal, radial shaft, selector shaft
5	046317		1	Switching threshold shaft
5	047330 *		1	Switching threshold shaft
6	046329		1	Key, selector shaft
6	047337 *		1	Key, selector shaft
7	046401		2	Key, 6 x 6 x 40
8	046318		1	Shifting fork
9	046348		1	Circlip, selector shaft
10	046355		1	Plug cover, selector shaft
11	046313		1	Shifting ring, output
12	046326		2	Key, shifting element

Notes:-

* For gearbox ID 6443-M-8 and 6443-M11





Item	Part Number	Type	Quantity	Description
Casings and fittings - HP-R-1 Gearbox - Rögelberg				
1	046292		1	Gearbox casing, front
1	047328 *		1	Gearbox casing, front
2	046293		1	Gearbox casing, rear
2	047329 *		1	Gearbox casing, rear
3	046405		2	Screw plug, M22 x 1.5
4	046409		2	Seal, 22 x 27
5	046406		2	Screw plug, M18 x 1.5
6	046410		2	Seal, 18 x 22
7	046412		2	Bolt, M10 x 20
8	046402		4	Pin, 12 x 40
9	046323		2	Steel plate cover
10	046394	As Req		Bolt, countersunk, CSK M6 x 12
11	046404		1	Sight glass, M26 x1.5
12	046418		1	Seal, 26 x 31 x 2
13	046413		3	Bolt, M12 x 60
14	046414		3	Washer 13
15	046415		3	Hex nut, M12
16	046388		18	Bolt, M12 x40
17	046419		1	Identification plate

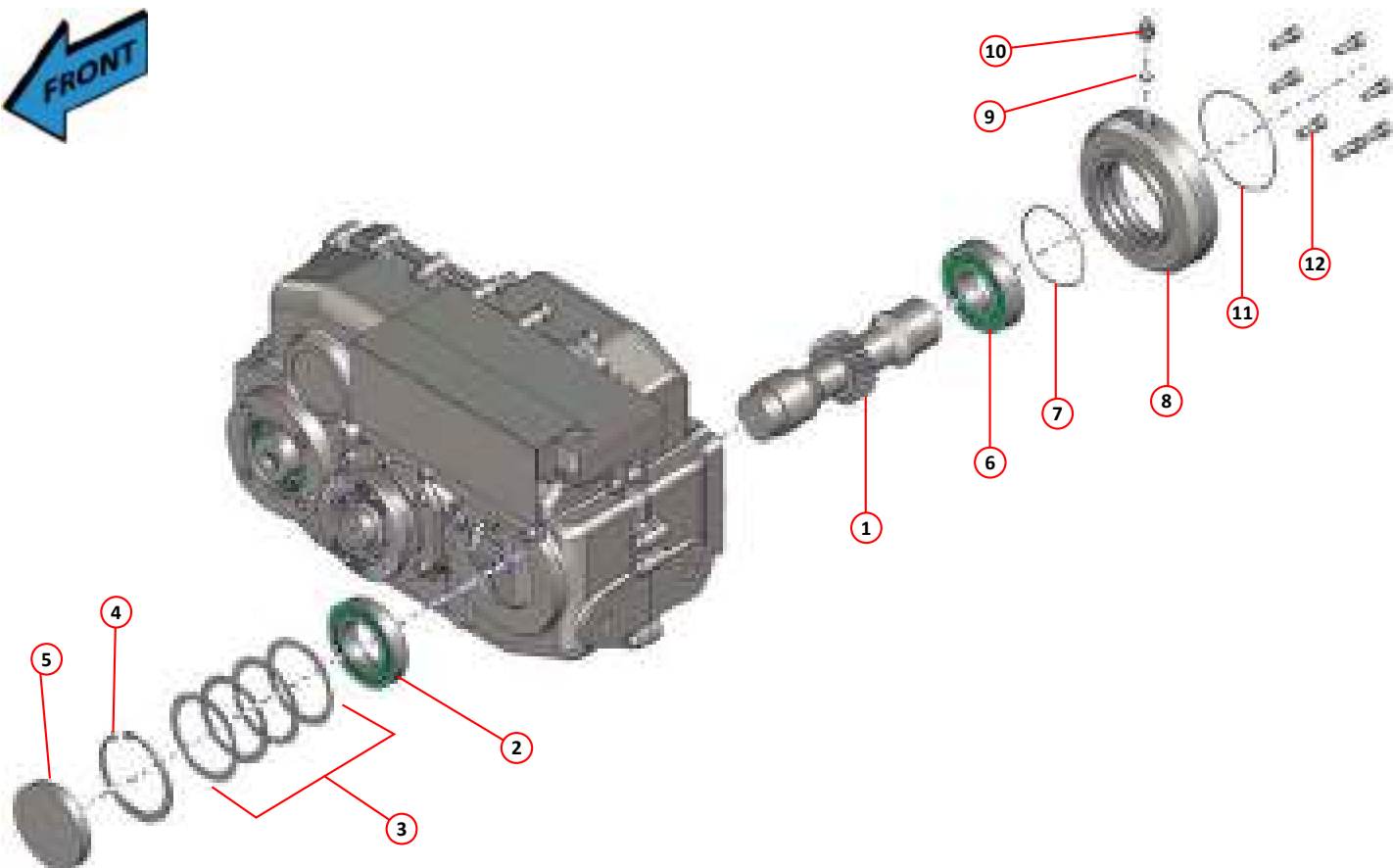
Notes:-
* For gearbox ID 6443-M-8 and 6443-M-11



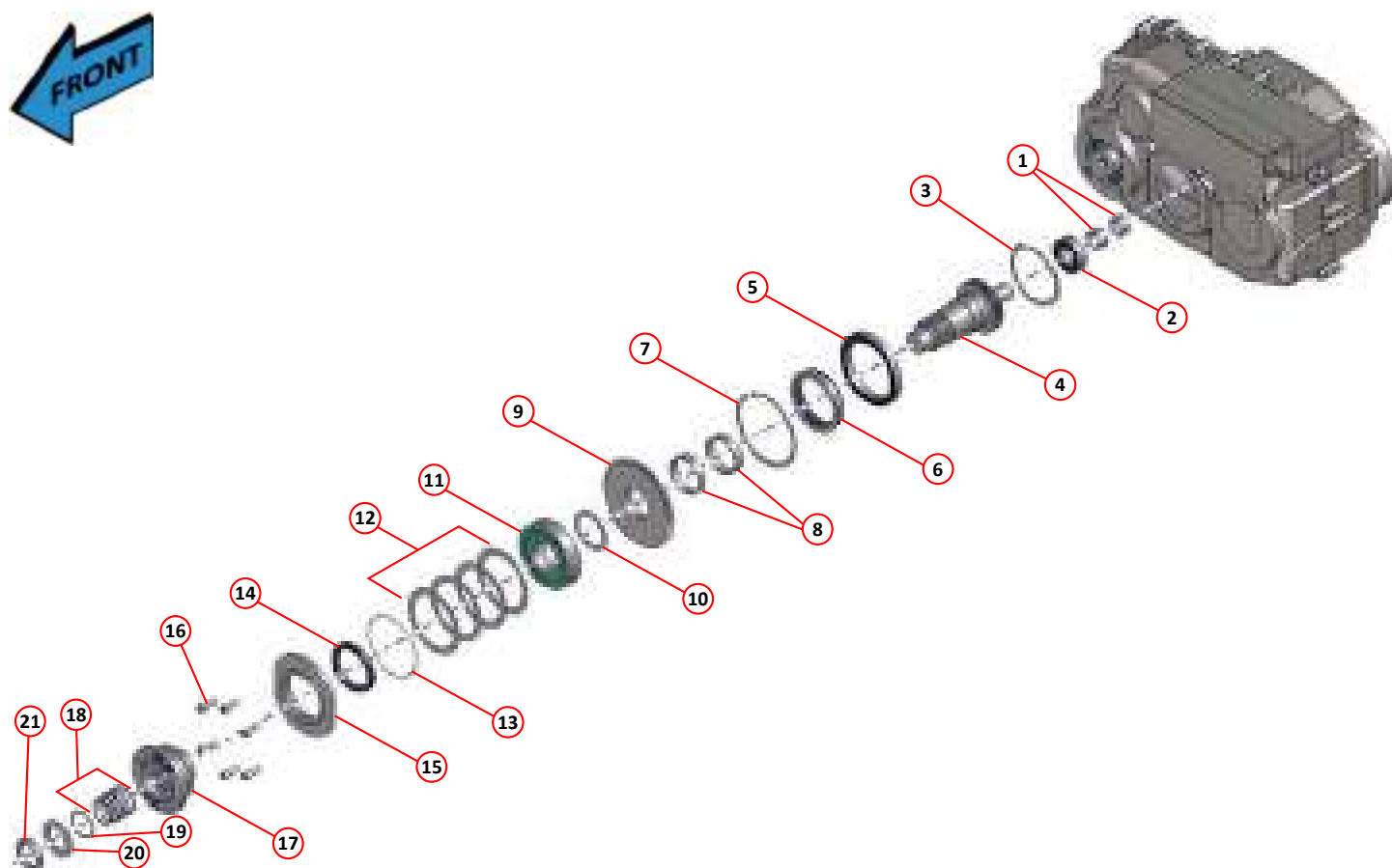
Item	Part Number	Type	Qty	Description
HP-R-2 Gearbox - Rögelberg				
1	SCA045328	6443-A-1	1	Rögelberg, complete assembly
1	SCA045328	6443-M-1	1	Rögelberg, complete assembly
1	SCA04xxxx	6443-M-4	1	Rögelberg, complete assembly
1	SCA047326	6443-M-7	1	Rögelberg, complete assembly
1	SCA047634	6443-M-10	1	Rögelberg, complete assembly

 If Type is not shown then it is for all versions of the HP-R-2 gearbox

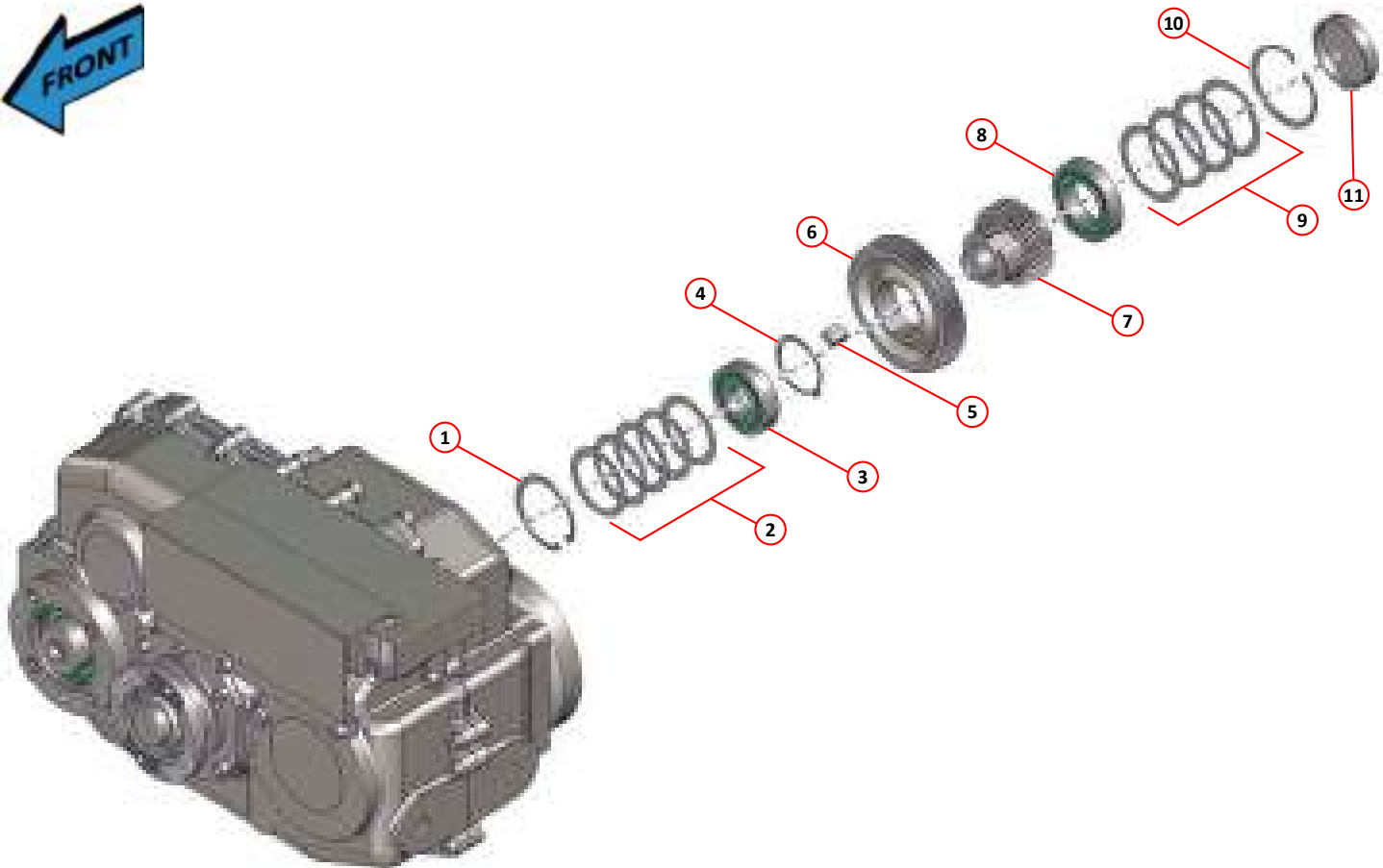
 The images shown on the following pages for the gearboxes and associated parts are reference only and is not representative of assembly or disassembly order.



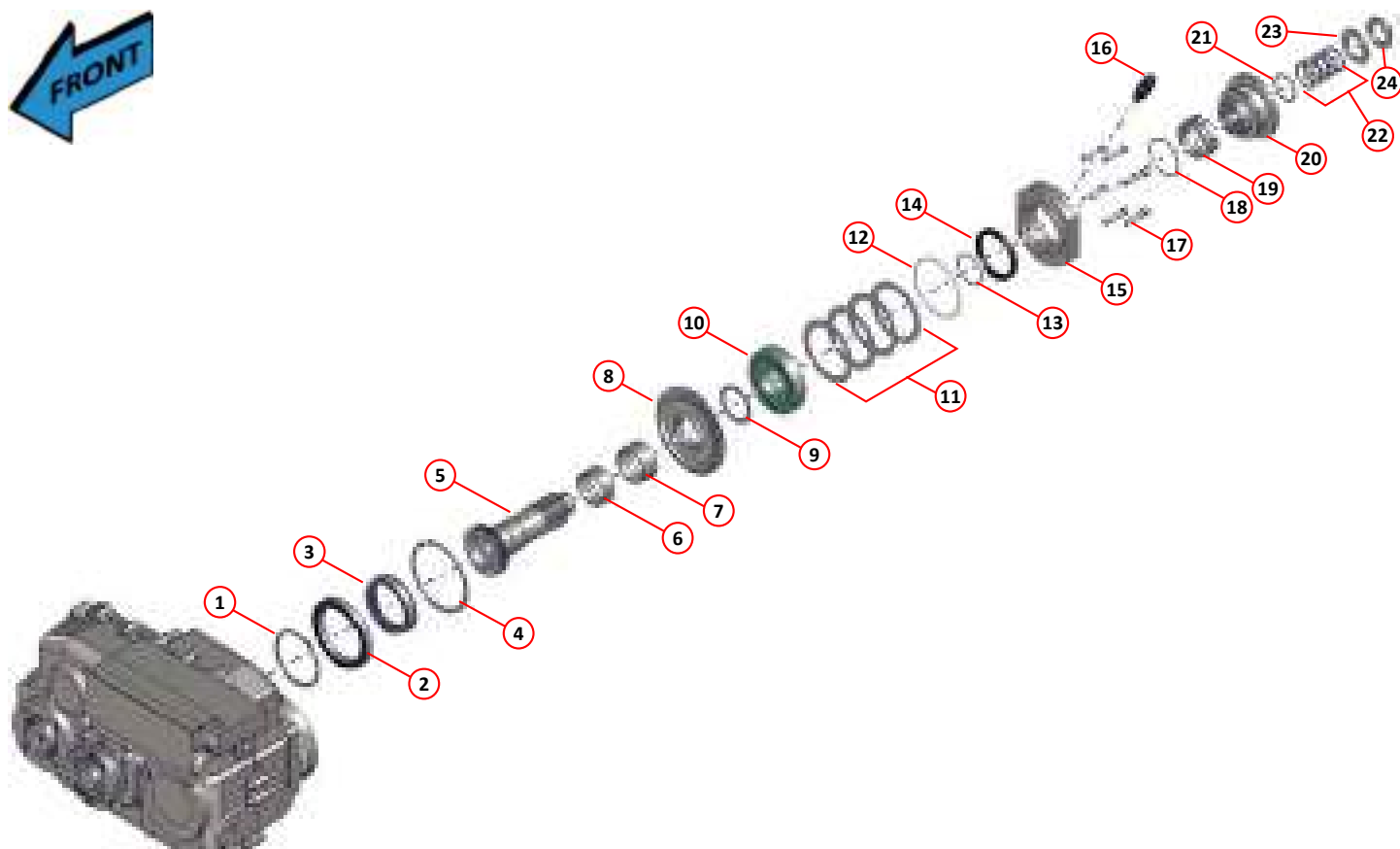
Item	Part Number	Type	Qty	Description
Pinion Shaft Drive Motor - HP-R-2 Gearbox - Rögelberg				
1	046306		1	Pinion shaft, drive motor
2	046334		1	Bearing, drive motor/pump
3	046371	As Req		Shim, DIN988, 100 x 120 x 0.5
3	046372	As Req		Shim, DIN988, 100 x 120 x 0.3
3	046373	As Req		Shim, DIN988, 100 x 120 x 0.1
4	046344		1	Retaining ring
5	046354		1	Plug cover
6	046335		1	Bearing, drive motor
7	046362		1	O-ring, drive pump/motor
8	046298		1	Flange, retaining
9	046411		1	Seal, breather
10	046408		1	Breather, M12 x 1.5
11	046363		1	O-ring, drive motor
12	046389		7	Bolt M12 x 30



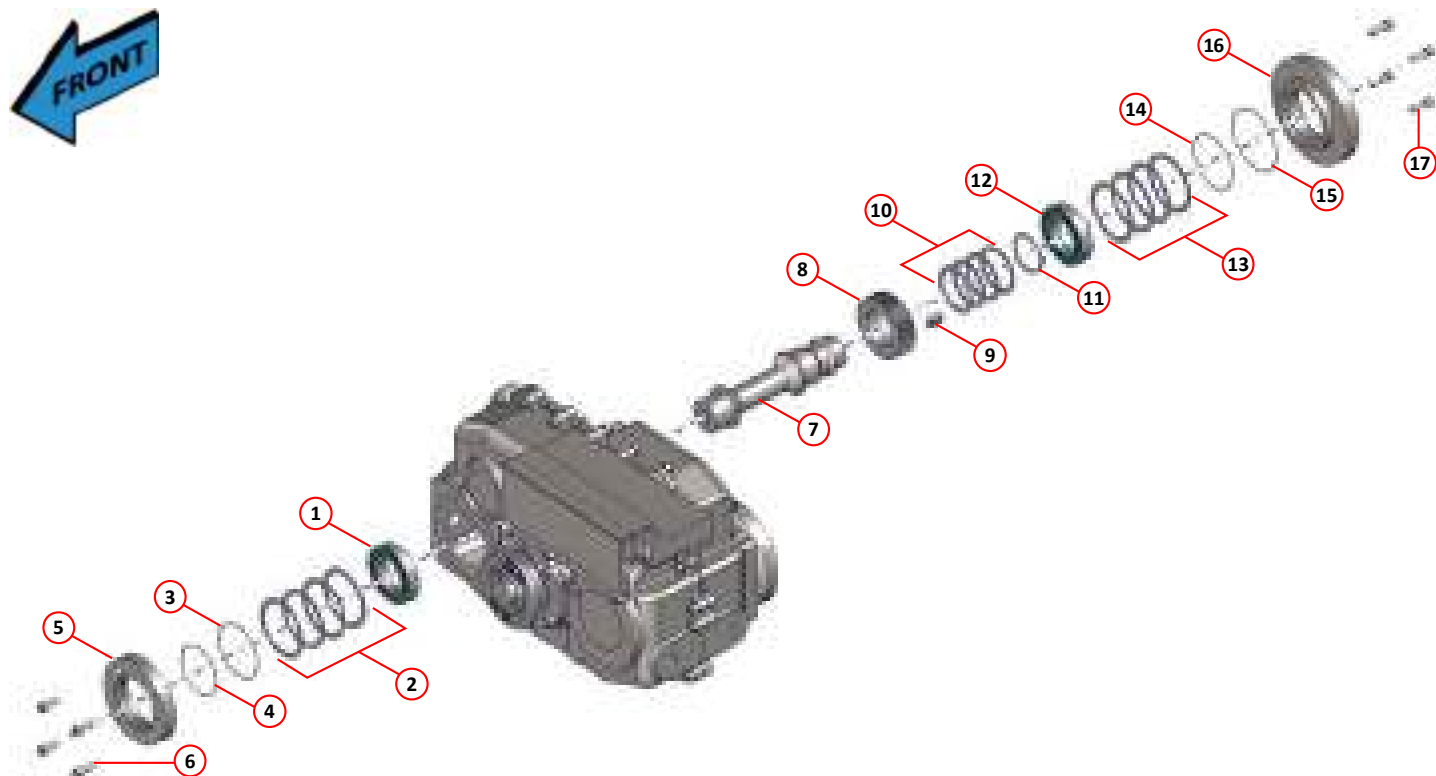
Item	Part Number	Type	Qty	Description
Pinion Shaft Input - HP-R-2 Gearbox - Rögelberg				
1	046340		2	Sleeve, input shaft
2	046331		1	Taper bearing, input
3	046345		1	Retaining ring, input/output
4	046300		1	Pinion shaft, input
5	046336		1	Bearing, input/output
6	046311		1	Shifting ring, input
7	046346		1	Retaining ring, input/output
8	046337		2	Needle bearing, input
9	046301		1	Spur gear, input
10	046316		1	Washer, output
11	046330		1	Bearing, input/output
12	046385	As Req		Shim, DIN988, 120 x 150 x 0.1
12	046386	As Req		Shim, DIN988, 120 x 150 x 0.3
12	046387	As Req		Shim, DIN988, 120 x 150 x 0.5
13	046358		1	O-ring, input/output
14	046350		1	Seal, radial shaft, input
15	046294		1	Flange, retaining, input
16	046389		6	Bolt M12 x 30
17	046299		1	Flange, input/output
18	046374	As Req		Shim, DIN988, 50 x 62 x 1.0
18	046375	As Req		Shim, DIN988, 50 x 62 x 0.5
18	046376	As Req		Shim, DIN988, 50 x 62 x 0.3
19	046377	As Req		Shim, DIN988, 50 x 62 x 0.1
19	046357		1	O-ring, input/output
20	046315		1	Washer, output/input
21	046403		1	Locknut, M50 x 1.5



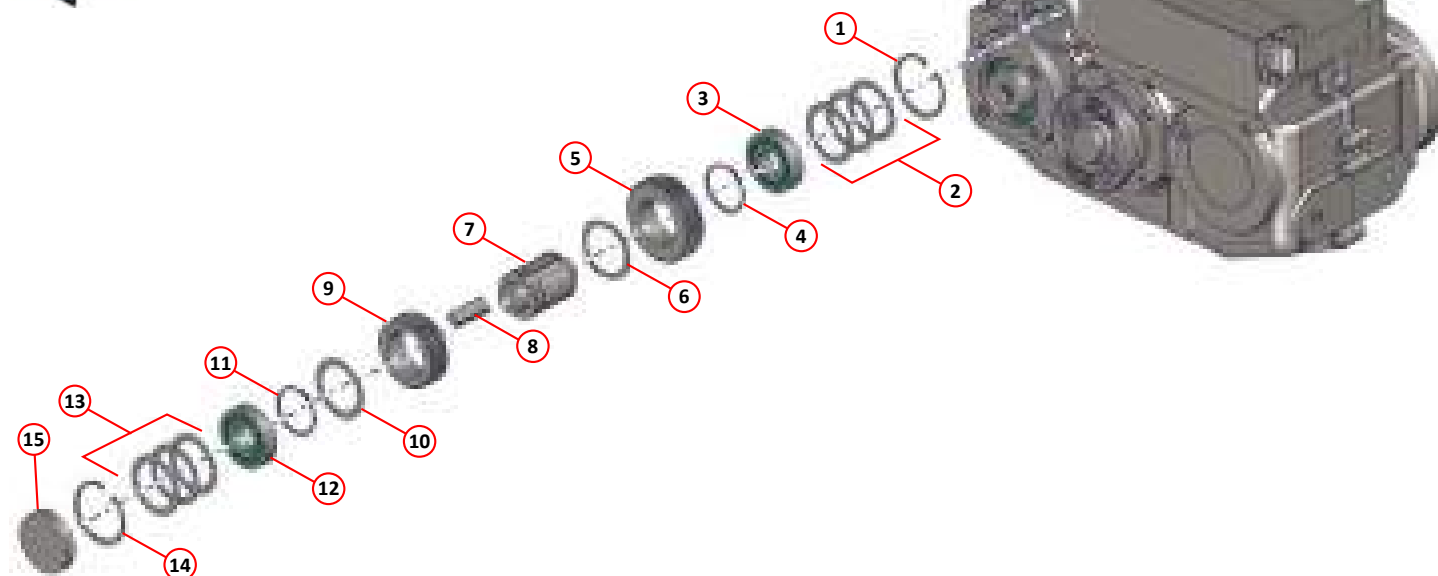
Item	Part Number	Type	Quantity	Description
Pinion Shaft - HP-R-2 Gearbox - R��gelberg				
1	046342		1	Retaining ring, input/layshaft
2	046368	As Req		Shim, DIN988, 70 x 90 x 0.5
2	046369	As Req		Shim, DIN988, 70 x 90 x 0.3
2	046370	As Req		Shim, DIN988, 70 x 90 x 0.1
3	046332		1	Taper bearing, input/layshaft
4	046341		1	Retaining ring, input/layshaft
5	046398		2	Key 20 x 12 x 2
6	046307		1	Spur gear
7	046308		1	Pinion shaft
8	046333		1	Taper bearing, layshaft
9	046365	As Req		Shim, DIN988, 80 x 100 x 0.5
9	046366	As Req		Shim, DIN988, 80 x 100 x 0.3
9	046367	As Req		Shim, DIN988, 80 x 100 x 0.1
10	046343		1	Retaining ring, layshaft
11	046356		1	Plug cover, layshaft



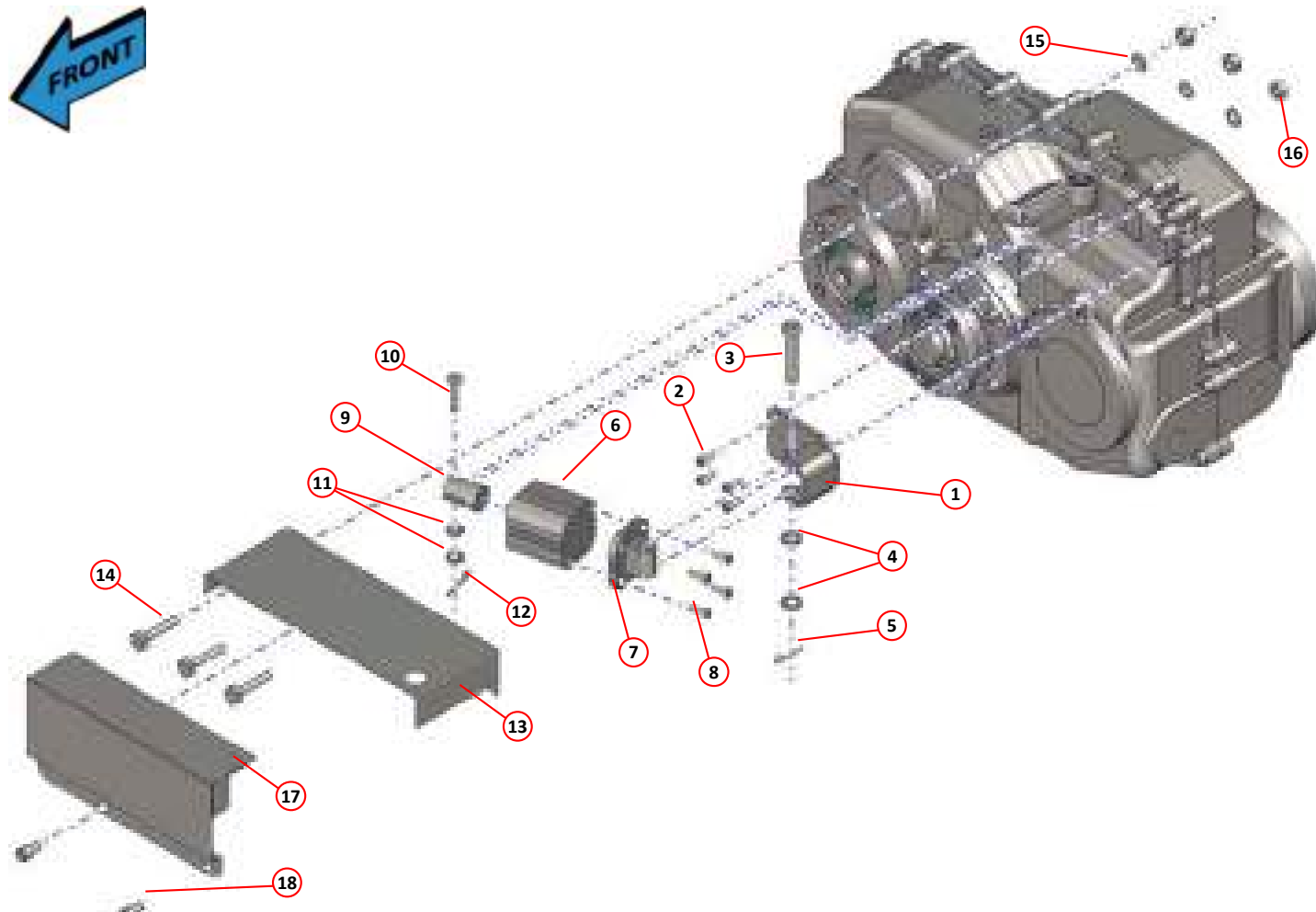
Item	Part Number	Type	Qty	Description
Pinion Shaft Output - HP-R-2 Gearbox - Rögelberg				
1	046345		1	Retaining ring, input/output
2	046336		1	Bearing, input/output
3	046312		1	Shifting ring, output
4	046346		1	Retaining ring, input/output
5	046310		1	Pinion shaft, output
6	046338		1	Needle bearing, output, inner
7	046339		1	Needle bearing, output, outer
8	046309		1	Spur gear, output
9	046316		1	Washer, output
10	046330		1	Bearing, input/output
11	046385	As Req		Shim, DIN988, 120 x 150 x 0.1
11	046386	As Req		Shim, DIN988, 120 x 150 x 0.3
11	046387	As Req		Shim, DIN988, 120 x 150 x 0.5
12	046358		1	O-ring, input/output
13	046359		1	O-ring, input/output
14	046351		1	Radial shaft seal, input
15	046295		1	Flange retaining, output
16	046738		1	Gearbox speed sensor, 19mm, DTCO 4 compliant Page 556
17	046390		6	Bolt, M12 x 55
18	046364		1	O-ring, output
19	046314		1	Bushing, output
20	046299		1	Flange, input/output
21	046357		1	O-ring, input/output
22	046374	As Req		Shim, DIN988, 50 x 62 x 1.0
22	046375	As Req		Shim, DIN988, 50 x 62 x 0.5
22	046376	As Req		Shim, DIN988, 50 x 62 x 0.3
22	046377	As Req		Shim, DIN988, 50 x 62 x 0.1
23	046315		1	Washer, output/input
24	046403		1	Locknut M50 x 1.5



Item	Part Number	Type	Qty	Description
Input Shaft Drive - HP-R-2 Gearbox - Rögelberg				
1	046334		1	Bearing, drive motor/pump
2	046371	As Req		Shim, DIN988, 100 x 120 x 0.5
2	046372	As Req		Shim, DIN988, 100 x 120 x 0.3
2	046373	As Req		Shim, DIN988, 100 x 120 x 0.1
3	046362		1	O-ring, drive pump/motor
4	046360		1	O-ring, drive pump
5	046297		1	Flange retaining, drive pump, inner
6	046389		4	Bolt, M12 x 30
7	046305		1	Input shaft, drive pump
8	046325		1	Spur gear, drive pump
9	046400		1	Key 20 x12 x 28
10	046382	As Req		Shim, DIN988, 75 x 95 x 0.5
10	046383	As Req		Shim, DIN988, 75 x 95x 0.3
10	046384	As Req		Shim, DIN988, 75 x 95 x 0.1
11	046349		1	Retaining ring, drive pump
12	046334		1	Bearing, drive motor/pump
13	046371	As Req		Shim, DIN988, 100 x 120 x 0.5
13	046372	As Req		Shim, DIN988, 100 x 120 x 0.3
13	046373	As Req		Shim, DIN988, 100 x 120 x 0.1
14	046362		1	O-ring, drive pump/motor
15	046361		1	O-ring, drive pump
16	046296		1	Flange retaining, drive pump, outer
17	046391		4	Bolt M12 x35



Item	Part Number	Type	Qty	Description
Shaft Input - HP-R-2 Gearbox - Rögelberg				
1	046342		1	Retaining ring, input/layshaft
2	046368	As Req		Shim, DIN988, 70 x 90 x 0.5
2	046369	As Req		Shim, DIN988, 70 x 90 x 0.3
2	046370	As Req		Shim, DIN988, 70 x 90 x 0.1
3	046332		1	Taper bearing, input/layshaft
4	046341		1	Retaining ring, input/layshaft
5	046302		1	Spur gear, input
6	046368		1	Shim, DIN988, 70 x 90 x 0.5
7	046303		1	Shaft, input
8	046399		1	Key 20 x 12 x 63
9	046304		1	Spur gear, input
10	046368		1	Shim, DIN988, 70 x 90 x 0.5
11	046341		1	Retaining ring, input/layshaft
12	046332		1	Taper bearing, input/layshaft
13	046368	As Req		Shim, DIN988, 70 x 90 x 0.5
13	046369	As Req		Shim, DIN988, 70 x 90 x 0.3
13	046370	As Req		Shim, DIN988, 70 x 90 x 0.1
14	046342		1	Retaining ring, input/layshaft
15	046353		1	Plug cover, input



Item	Part Number	Type	Qty	Description
Shifting Pneumatic Cylinder - HP-R-2 Gearbox - Rögelberg				

1	046319		1	Mounting bracket, adapter ram
1	047331*		1	Mounting bracket, adapter ram
2	046392		4	Bolt, M8 x 20
3	046328		1	Clevis pin, rear
3	047336 *		1	Clevis pin, rear
4	046417		2	Washer, M16R
5	046395		1	Split pin, 4 x40
6	046396		1	Pneumatic cylinder
6	047342 *		1	Pneumatic cylinder
7	046397		1	Cylinder fixing eye
7	047343 *		1	Cylinder fixing eye
8	046392		4	Bolt, M8 x 20
9	046324		1	Clevis, adapter
9	047335 *		1	Clevis, adapter
10	046327		2	Clevis pin, front
11	046416		2	Washer, M12
12	046395		1	Split pin, 4 x40
13	046383		3	Cover, rear
13	047333 *		3	Cover, rear
14	046413 †		3	Bolt, M12 x 60
15	046414 †		3	Washer, M12
16	046415 †		3	Nut, hex , M12
17	046320		1	Cover, front
17	047332 *		1	Cover, front
18	046393		2	Bolt, M12 x 20

Notes:-

* For gearbox ID 6443-M-7 and 6443-M-10

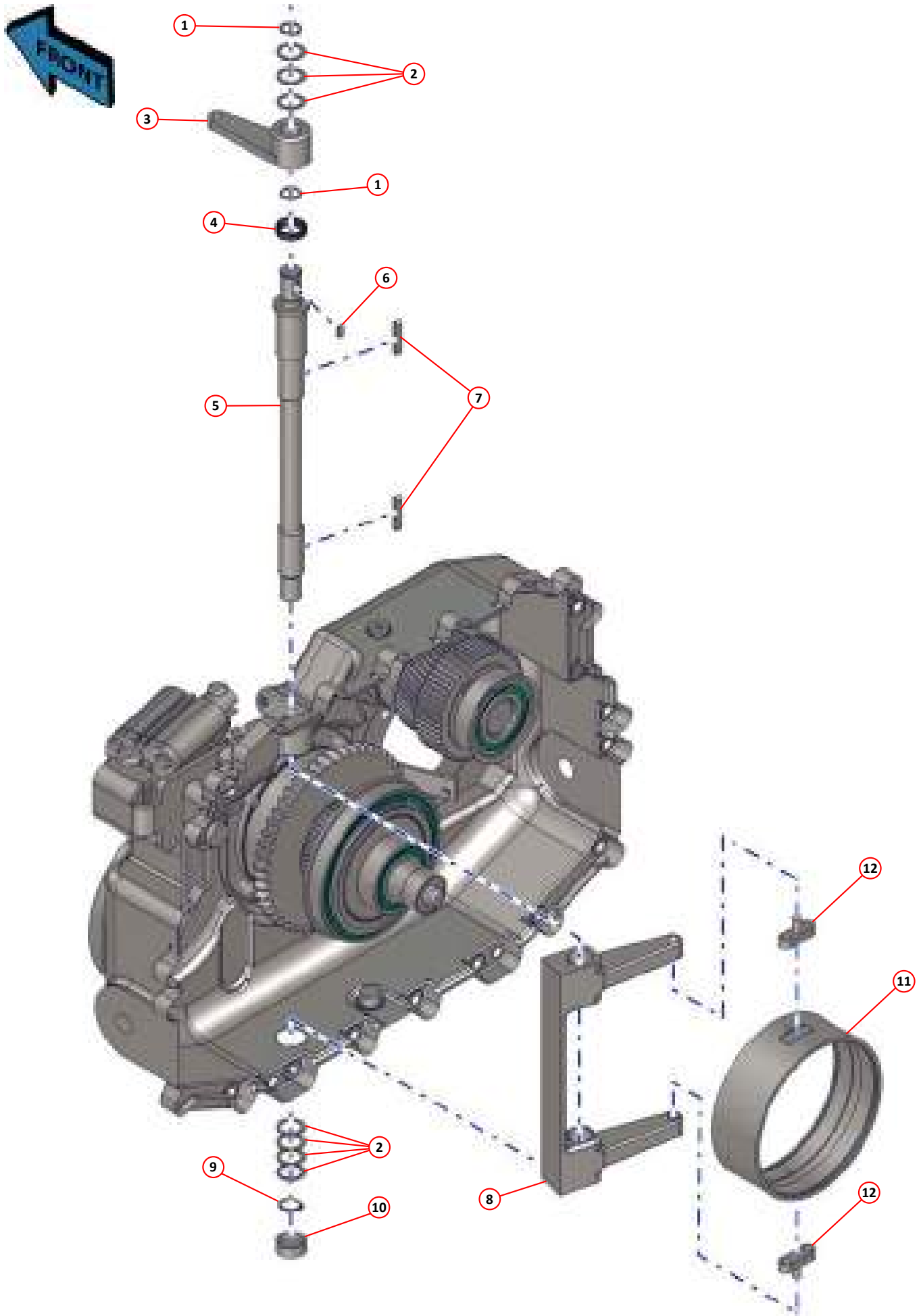
† These items are fixings of the case, shown here for reference. See page 632.

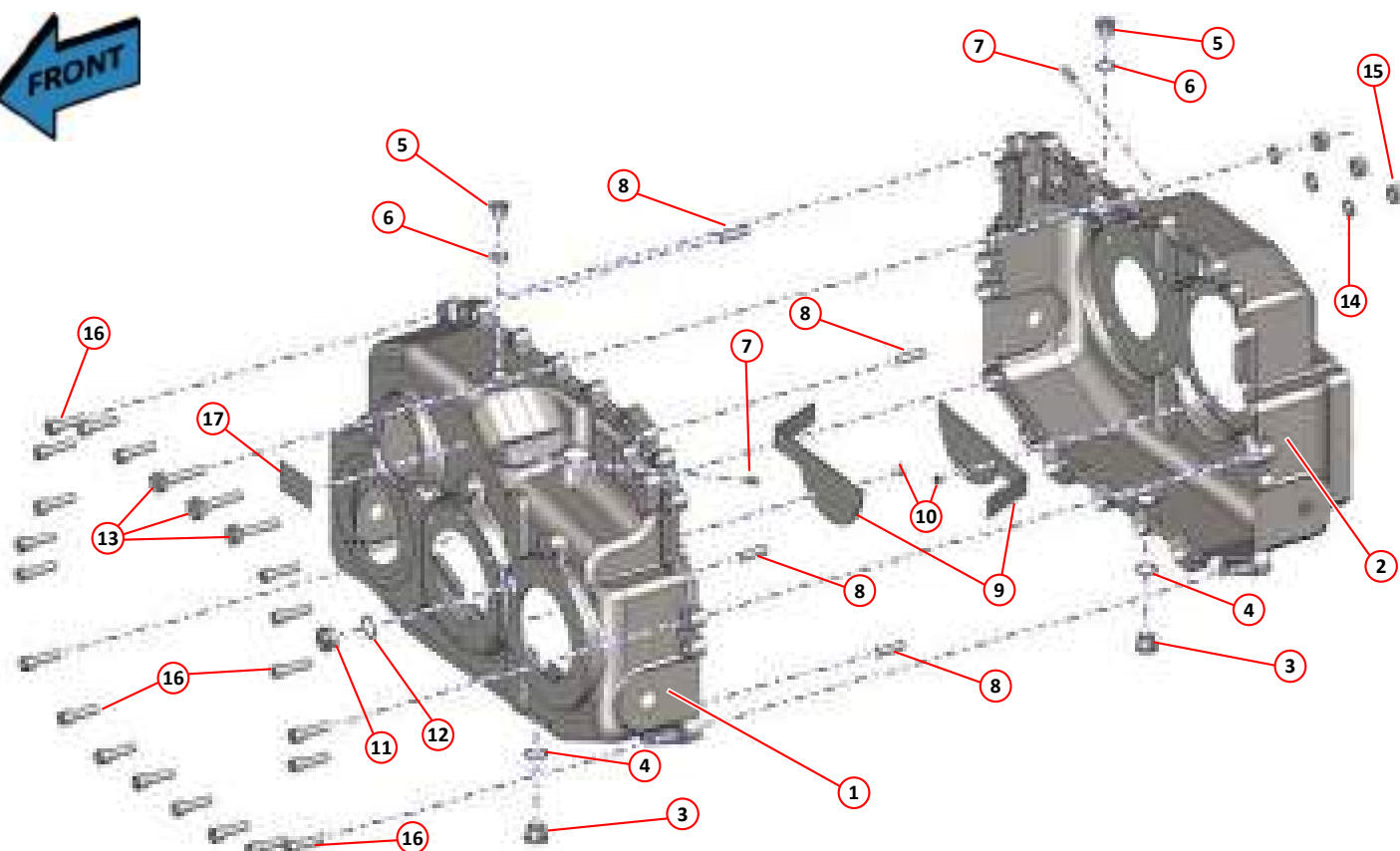
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Item	Part Number	Type	Qty	Description
Selector Mechanism - HP-R-2 Gearbox - Rögelberg				
1	046347		2	Retaining ring, selector shaft
2	046378		As Req	Shim, DIN988, 20 x 28 x 0.5
2	047338 *		As Req	Shim, DIN988, 20 x 28 x 0.5
2	046379		As Req	Shim, DIN988, 20 x 28 x 0.3
2	047339 *		As Req	Shim, DIN988, 20 x 28 x 0.3
2	046380		As Req	Shim, DIN988, 20 x 28 x 0.1
2	044740 *		As Req	Shim, DIN988, 20 x 28 x 0.1
2	046381		As Req	Shim, DIN988, 20 x 28 x 1.0
2	047431 *		As Req	Shim, DIN988, 20 x 28 x 1.0
3	046322		1	Shifting lever
3	047334 *		1	Shifting lever
4	046352		1	Seal, radial shaft, selector shaft
5	046317		1	Switching threshold shaft
5	047330 *		1	Switching threshold shaft
6	046329		1	Key, selector shaft
6	047337 *		1	Key, selector shaft
7	046401		2	Key, 6 x 6 x 40
8	046318		1	Shifting fork
9	046348		1	Circlip, selector shaft
10	046355		1	Plug cover, selector shaft
11	046313		1	Shifting ring, output
12	046326		2	Key, shifting element

Notes:-

* For gearbox ID 6443-M-7 and 6443-M10

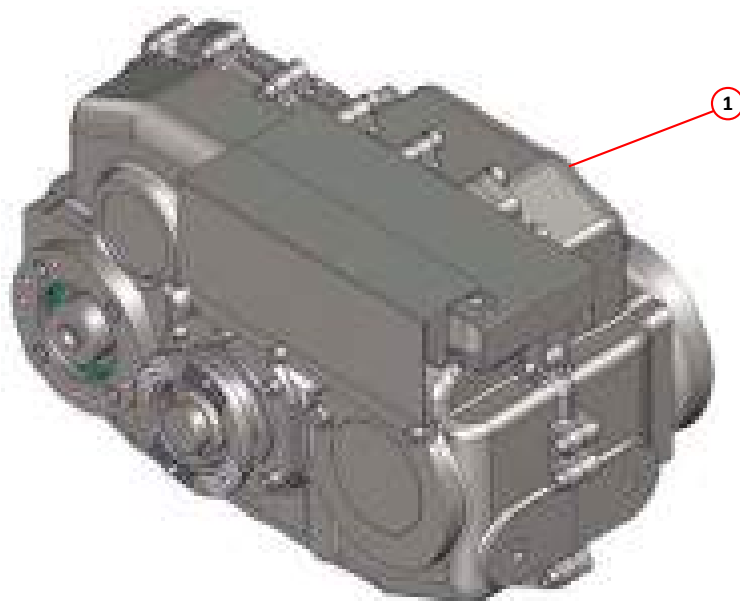




Item	Part Number	Type	Qty	Description
Casings and fittings - HP-R-2 Gearbox - Rögelberg				
1	046292		1	Gearbox casing, front
1	047328 *		1	Gearbox casing, front
2	046293		1	Gearbox casing, rear
2	047329 *		1	Gearbox casing, rear
3	046405		2	Screw plug, M22 x 1.5
4	046409		2	Seal, 22 x 27
5	046406		2	Screw plug, M18 x 1.5
6	046410		2	Seal, 18 x 22
7	046412		2	Bolt, M10 x 20
8	046402		4	Pin, 12 x 40
9	046323		2	Steel plate cover
10	046394	As Req		Bolt, countersunk, CSK M6 x 12
11	046404		1	Sight glass, M26 x1.5
12	046418		1	Seal, 26 x 31 x 2
13	046413		3	Bolt, M12 x 60
14	046414		3	Washer 13
15	046415		3	Hex nut, M12
16	046388		18	Bolt, M12 x40
17	046419		1	Name plate

Notes:-

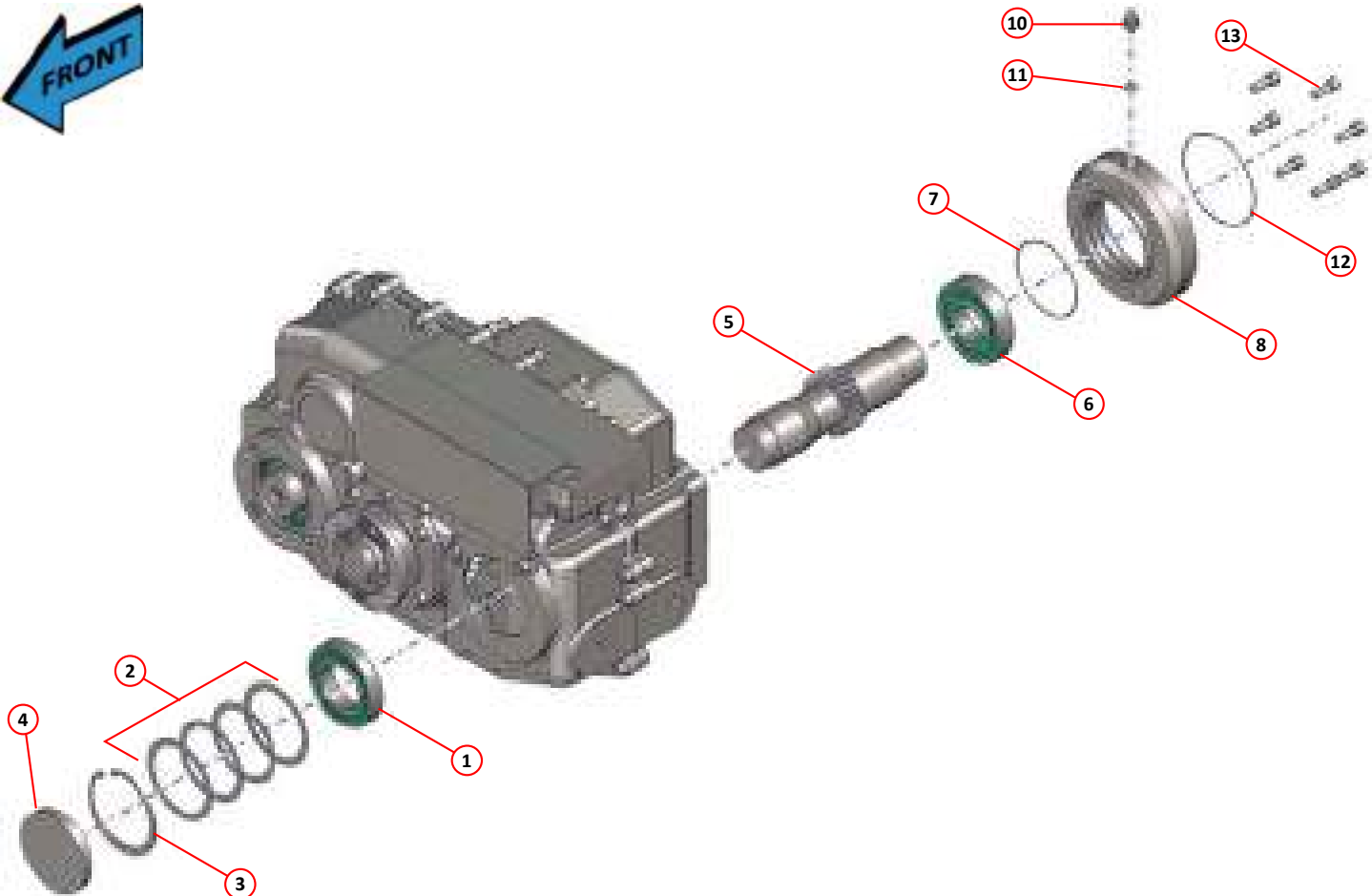
* For gearbox ID 6443-M-7 and 6443-M-10



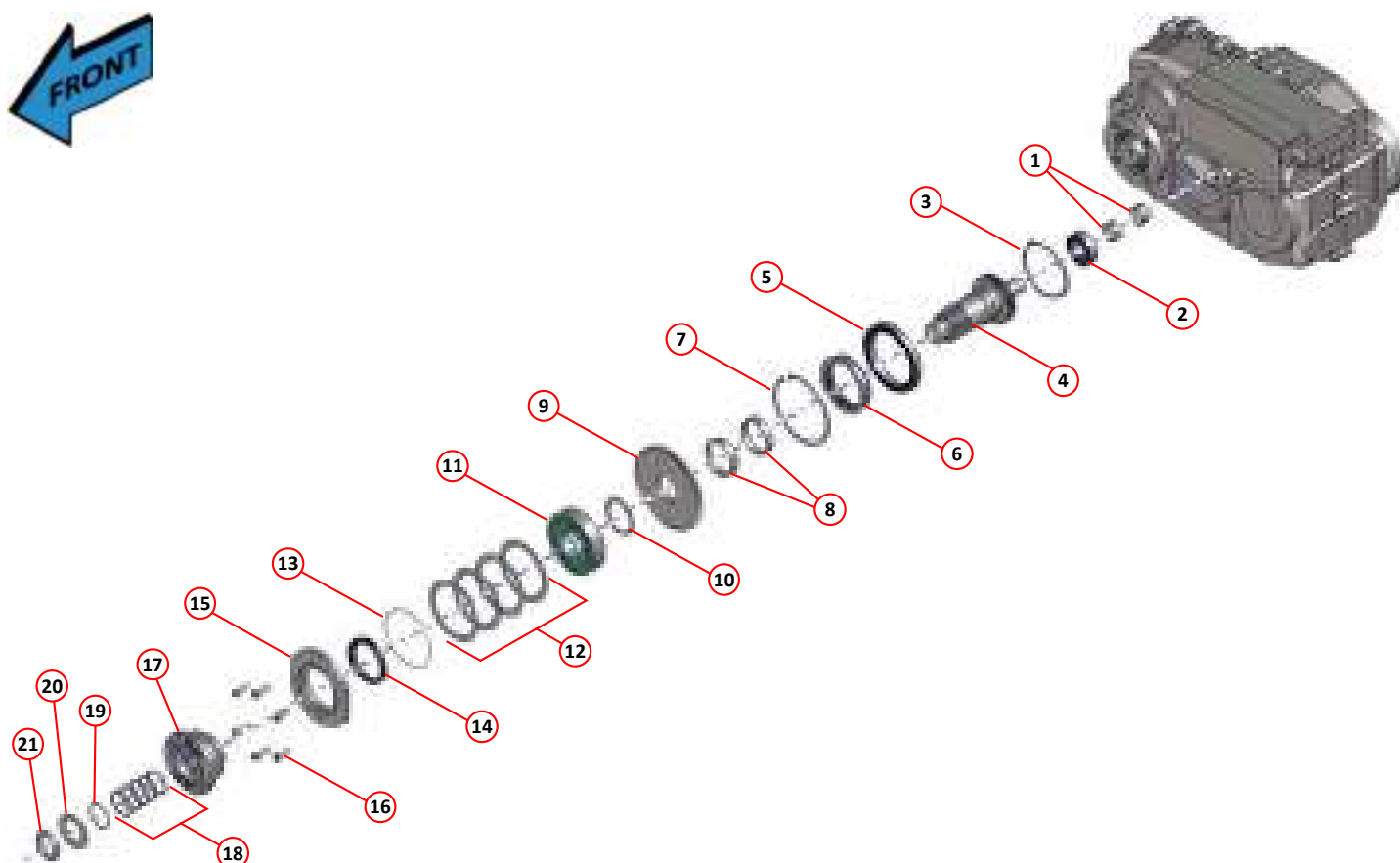
Item	Part Number	Type	Qty	Description
HP-R-6 Gearbox - Rögelberg				
1	SCA045329	6443-A-1	1	Rögelberg, complete assembly
1	SCA045329	6443-M-3	1	Rögelberg, complete assembly
1	SCA04xxxx	6443-M-6	1	Rögelberg, complete assembly
1	SCA047327	6443-M-9	1	Rögelberg, complete assembly
1	SCA047636	6443-M-12	1	Rögelberg, complete assembly

 If Type is not shown then it is for all versions of the HP-R-6 gearbox

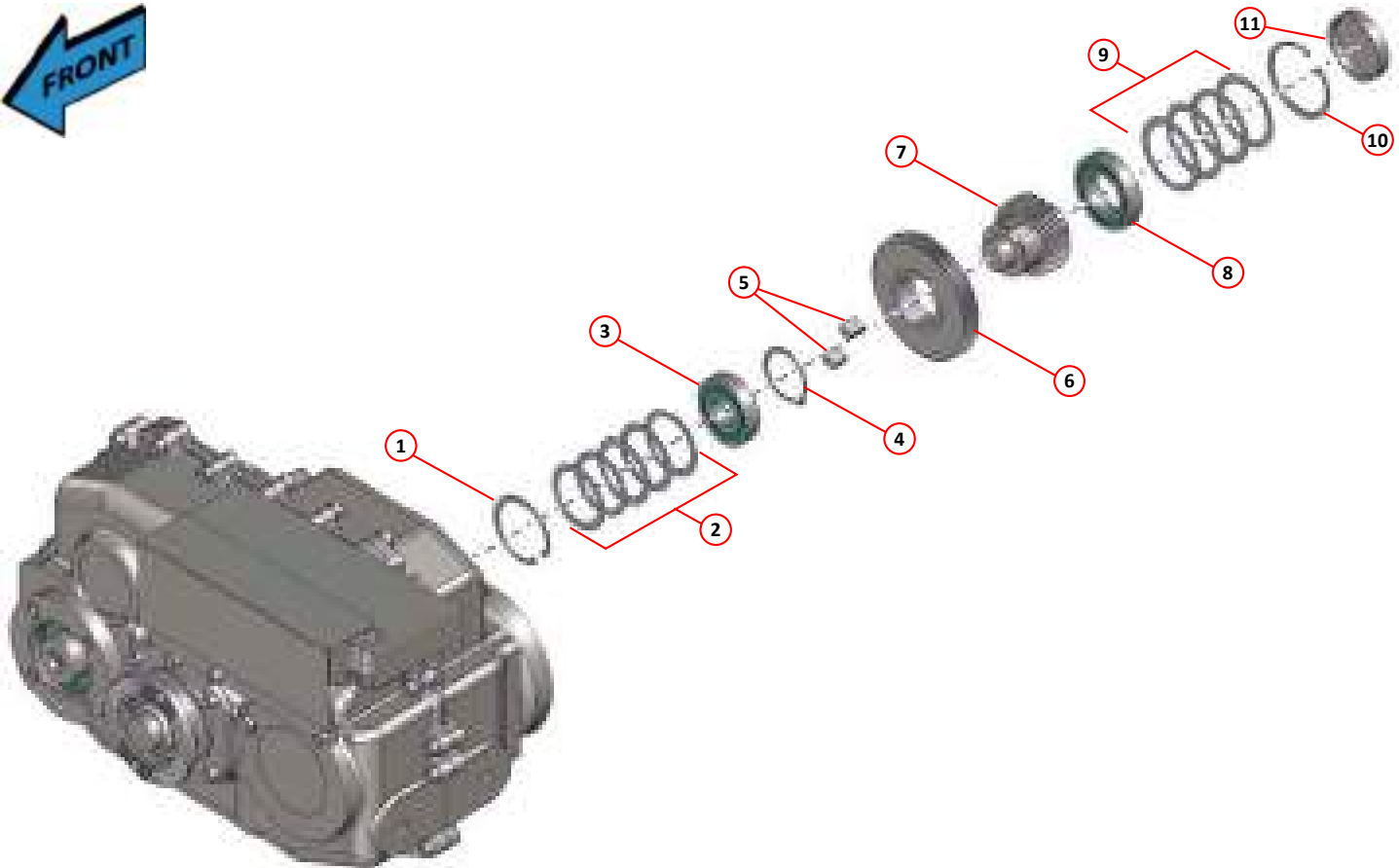
 The images shown in the following pages for the gearboxes and associated parts are reference only and is not representative of assembly or disassembly order.



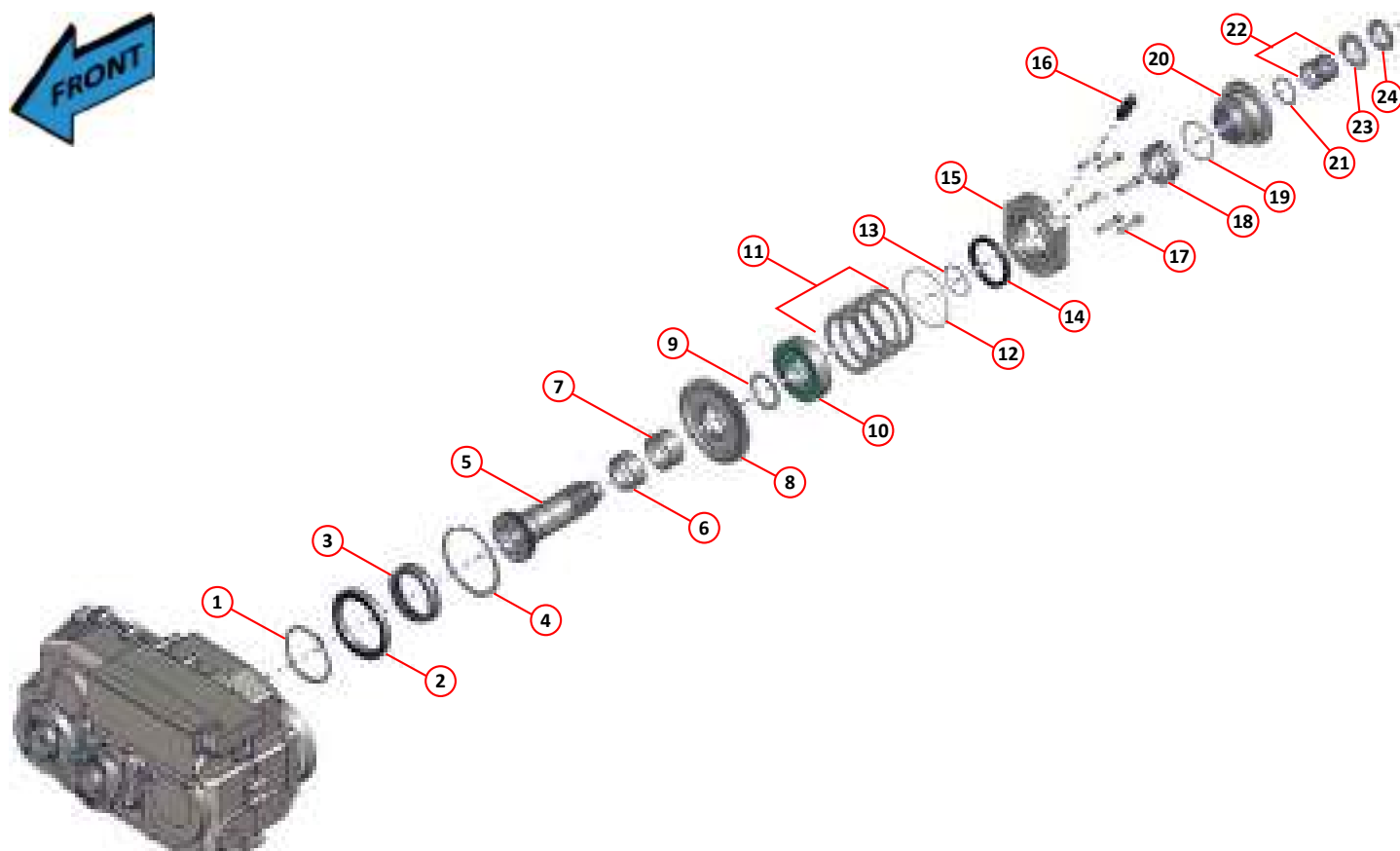
Item	Part Number	Type	Qty	Description
Pinion Shaft Drive Motor - HP-R-6 Gearbox - Rögelberg				
1	046334		1	Bearing, drive motor/pump
2	046371	As Req		Shim, DIN988, 100 x 120 x 0.5
2	046372	As Req		Shim, DIN988, 100 x 120 x 0.3
2	046373	As Req		Shim, DIN988, 100 x 120 x 0.1
3	046344		1	Retaining ring
4	046354		1	Plug cover
5	046422		1	Pinion shaft, drive motor
6	046335		1	Bearing, drive motor
7	046362		1	O-ring, drive pump/motor
8	046298		1	Flange, retaining
9	046411		1	Seal, breather
10	046408		1	Breather, M12 x 1.5
11	046363		1	O-ring, drive motor
12	046389		7	Bolt M12 x 30



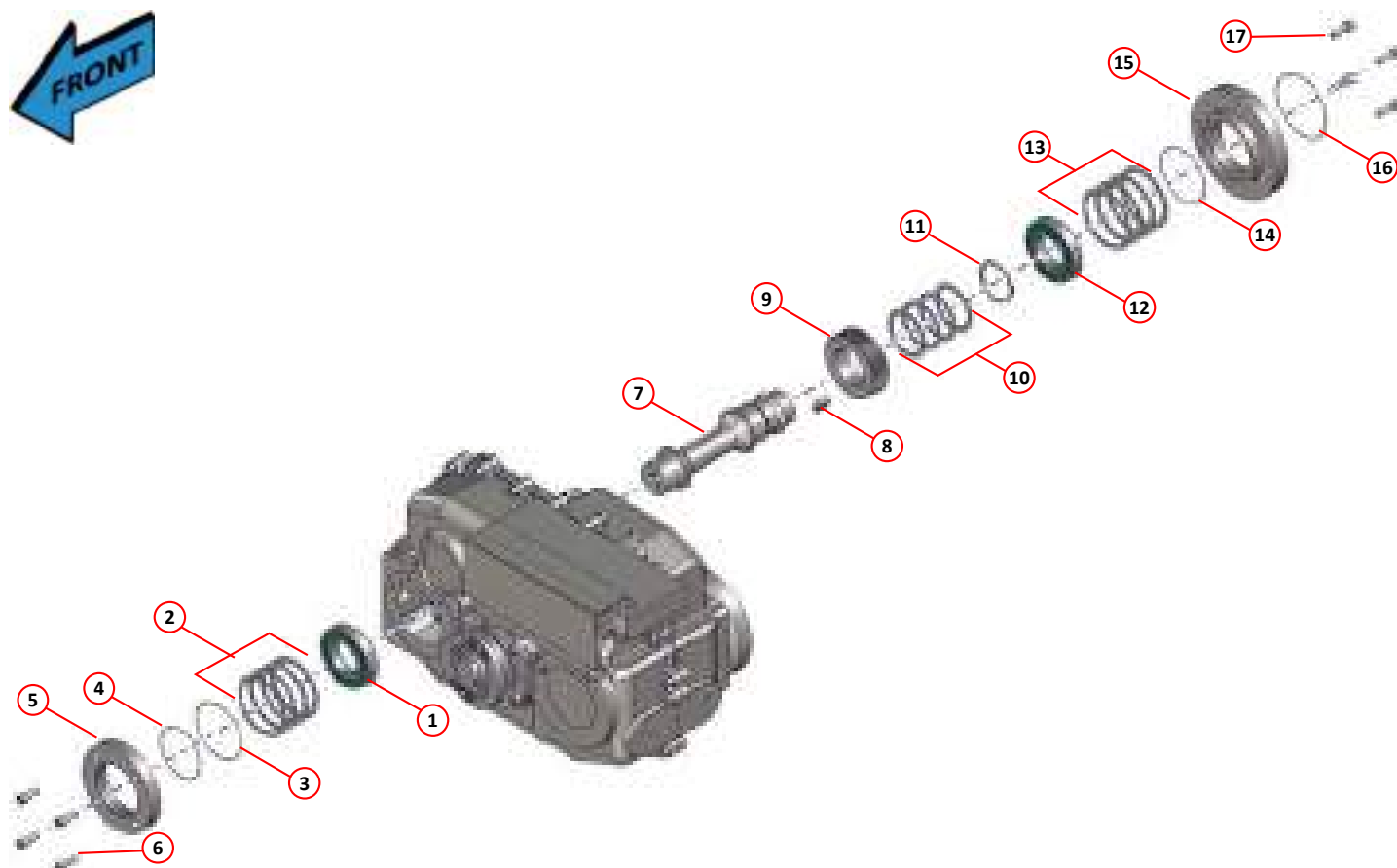
Item	Part Number	Type	Qty	Description
Pinion Shaft Input - HP-R-6 Gearbox - Rögelberg				
1	046340		2	Sleeve, input shaft
2	046331		1	Taper bearing, input
3	046345		1	Retaining ring, input/output
4	046300		1	Pinion shaft, input
5	046336		1	Bearing, input/output
6	046311		1	Shifting ring, input
7	046346		1	Retaining ring, input/output
8	046337		2	Needle bearing, input
9	046301		1	Spur gear, input
10	046316		1	Washer, output
11	046330		1	Bearing, input/output
12	046385	As Req		Shim, DIN988, 120 x 150 x 0.1
12	046386	As Req		Shim, DIN988, 120 x 150 x 0.3
12	046387	As Req		Shim, DIN988, 120 x 150 x 0.5
13	046358		1	O-ring, input/output
14	046350		1	Seal, radial shaft, input
15	046294		1	Flange, retaining, input
16	046389		6	Bolt M12 x 30
17	046299		1	Flange, input/output
18	046374	As Req		Shim, DIN988, 50 x 62 x 1.0
18	046375	As Req		Shim, DIN988, 50 x 62 x 0.5
18	046376	As Req		Shim, DIN988, 50 x 62 x 0.3
18	046377	As Req		Shim, DIN988, 50 x 62 x 0.1
19	046357		1	O-ring, input/output
20	046315		1	Washer, output/input
21	046403		1	Locknut, M50 x 1.5



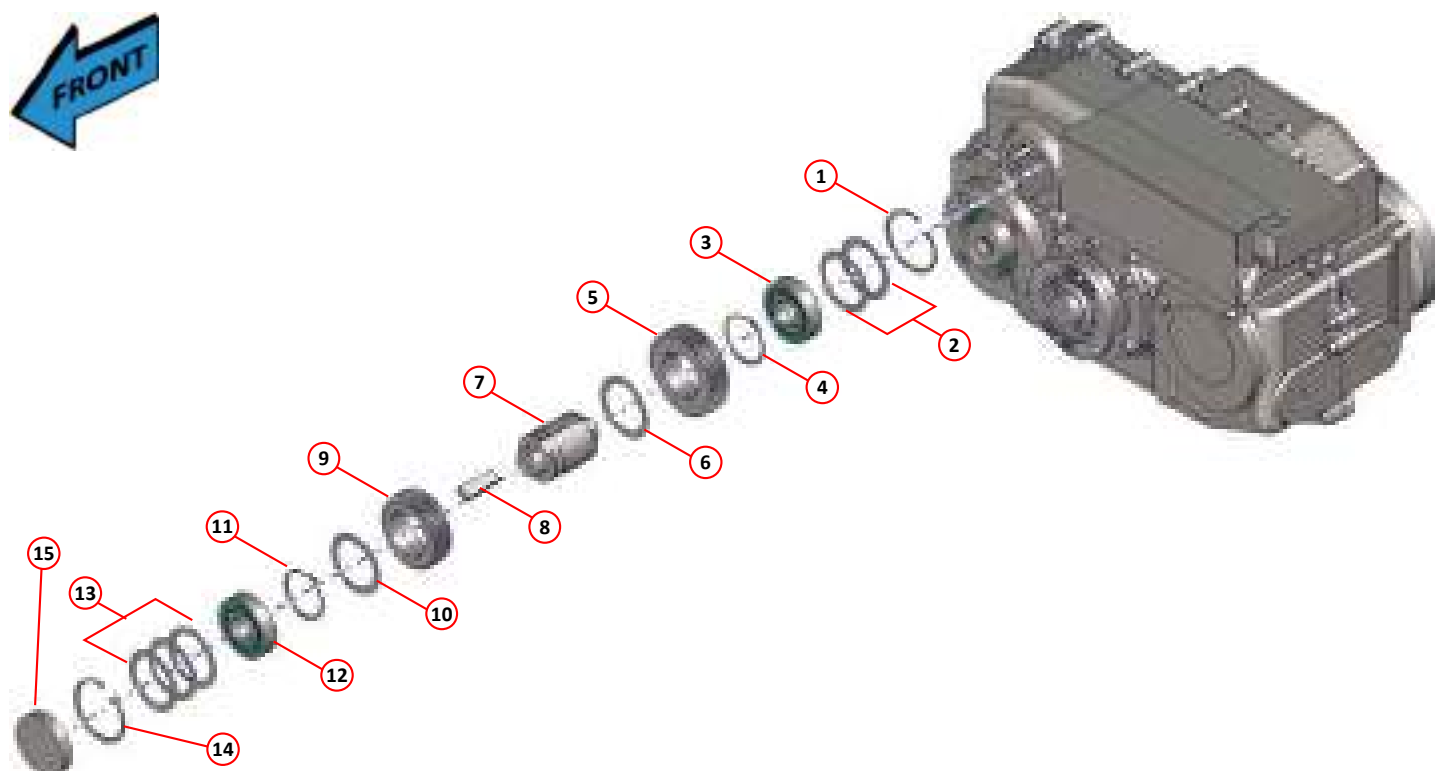
Item	Part Number	Type	Qty	Description
Pinion Shaft - HP-R-6 Gearbox - Rögelberg				
1	046342		1	Retaining ring, input/layshaft
2	046368	As Req		Shim, DIN988, 70 x 90 x 0.5
2	046369	As Req		Shim, DIN988, 70 x 90 x 0.3
2	046370	As Req		Shim, DIN988, 70 x 90 x 0.1
3	046332		1	Taper bearing, input/layshaft
4	046341		1	Retaining ring, input/layshaft
5	046398		2	Key 20 x 12 x 2
6	046423		1	Spur gear
7	046308		1	Pinion shaft
8	046333		1	Taper bearing, layshaft
9	046365	As Req		Shim, DIN988, 80 x 100 x 0.5
9	046366	As Req		Shim, DIN988, 80 x 100 x 0.3
9	046367	As Req		Shim, DIN988, 80 x 100 x 0.1
10	046343		1	Retaining ring, layshaft
11	046356		1	Plug cover, layshaft



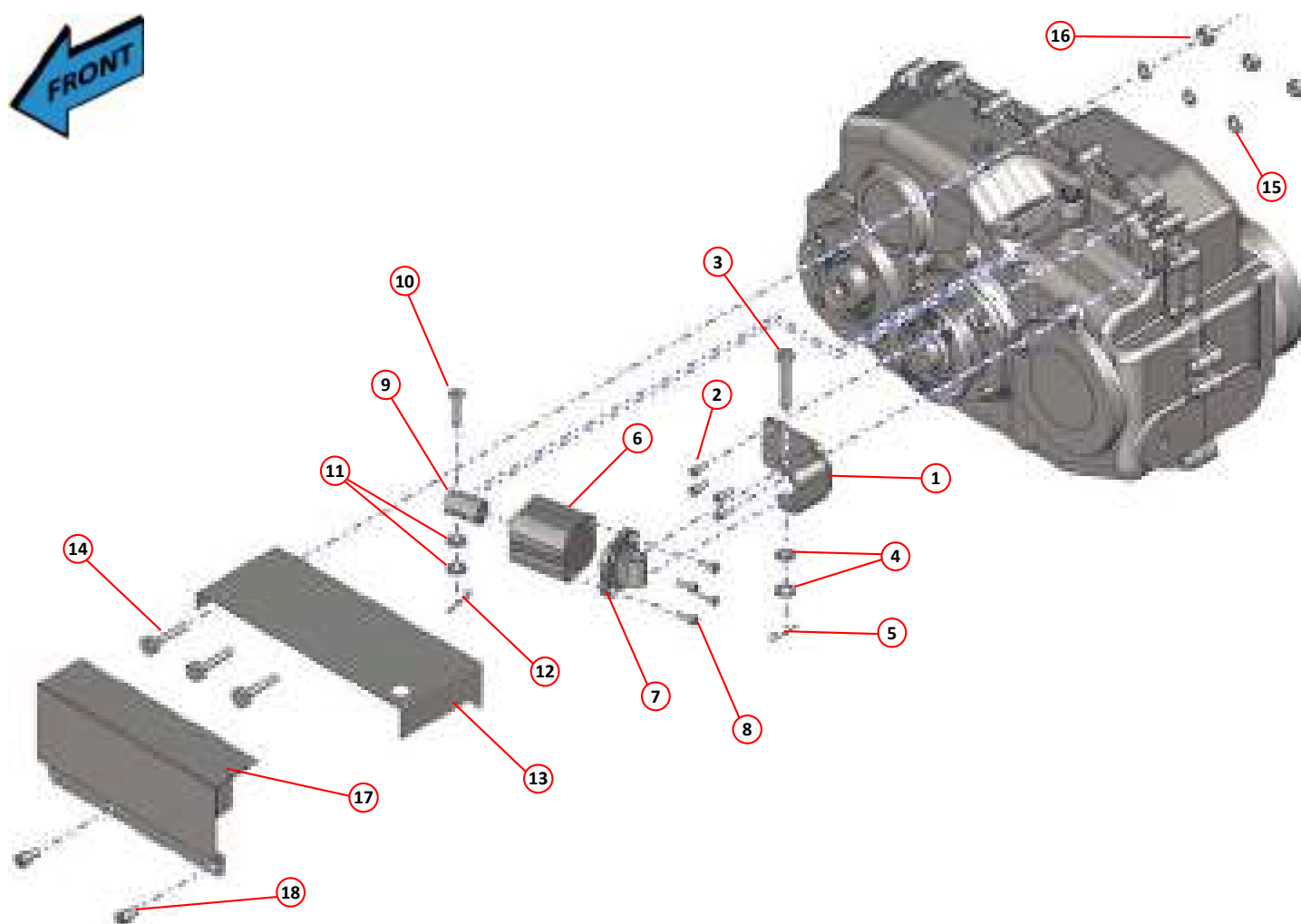
Item	Part Number	Type	Qty	Description
Pinion Shaft Output - HP-R-6 Gearbox - Rögelberg				
1	046345		1	Retaining ring, input/output
2	046336		1	Bearing, input/output
3	046312		1	Shifting ring, output
4	046346		1	Retaining ring, input/output
5	046310		1	Pinion shaft, output
6	046338		1	Needle bearing, output, inner
7	046339		1	Needle bearing, output, outer
8	046309		1	Spur gear, output
9	046316		1	Washer, output
10	046330		1	Bearing, input/output
11	046385	As Req		Shim, DIN988, 120 x 150 x 0.1
11	046386	As Req		Shim, DIN988, 120 x 150 x 0.3
11	046387	As Req		Shim, DIN988, 120 x 150 x 0.5
12	046358		1	O-ring, input/output
13	046359		1	O-ring, input/output
14	046351		1	Radial shaft seal, input
15	046295		1	Flange retaining, output
16	046738		1	Gearbox speed sensor, 19mm, DTCO 4 compliant Page 556
17	046390		6	Bolt, M12 x 55
18	046314		1	Bushing, output
19	046364		1	O-ring, output
20	046299		1	Flange, input/output
21	046357		1	O-ring, input/output
22	046374	As Req		Shim, DIN988, 50 x 62 x 1.0
22	046375	As Req		Shim, DIN988, 50 x 62 x 0.5
22	046376	As Req		Shim, DIN988, 50 x 62 x 0.3
22	046377	As Req		Shim, DIN988, 50 x 62 x 0.1
23	046315		1	Washer, output/input
24	046403		1	Locknut M50 x 1.5



Item	Part Number	Type	Qty	Description
Input Shaft Drive - HP-R-6 Gearbox - Rögelberg				
1	046334		1	Bearing, drive motor/pump
2	046371	As Req		Shim, DIN988, 100 x 120 x 0.5
2	046372	As Req		Shim, DIN988, 100 x 120 x 0.3
2	046373	As Req		Shim, DIN988, 100 x 120 x 0.1
3	046362		1	O-ring, drive pump/motor
4	046360		1	O-ring, drive pump
5	046297		1	Flange retaining, drive pump, inner
6	046389		4	Bolt, M12 x 30
7	046305		1	Input shaft, drive pump
8	046325		1	Spur gear, drive pump
9	046400		1	Key 20 x12 x 28
10	046382	As Req		Shim, DIN988, 75 x 95 x 0.5
10	046383	As Req		Shim, DIN988, 75 x 95x 0.3
10	046384	As Req		Shim, DIN988, 75 x 95 x 0.1
11	046349		1	Retaining ring, drive pump
12	046334		1	Bearing, drive motor/pump
13	046371	As Req		Shim, DIN988, 100 x 120 x 0.5
13	046372	As Req		Shim, DIN988, 100 x 120 x 0.3
13	046373	As Req		Shim, DIN988, 100 x 120 x 0.1
14	046362		1	O-ring, drive pump/motor
15	046296		1	Flange retaining, drive pump, outer
16	046361		1	O-ring, drive pump
17	046391		4	Bolt M12 x35



Item	Part Number	Type	Qty	Description
Shaft Input - HP-R-6 Gearbox - Rögelberg				
1	046342		1	Retaining ring, input/layshaft
2	046368	As Req		Shim, DIN988, 70 x 90 x 0.5
2	046369	As Req		Shim, DIN988, 70 x 90 x 0.3
2	046370	As Req		Shim, DIN988, 70 x 90 x 0.1
3	046332		1	Taper bearing, input/layshaft
4	046341		1	Retaining ring, input/layshaft
5	046302		1	Spur gear, input
6	046368		1	Shim, DIN988, 70 x 90 x 0.5
7	046303		1	Shaft, input
8	046399		1	Key 20 x 12 x 63
9	046304		1	Spur gear, input
10	046368		1	Shim, DIN988, 70 x 90 x 0.5
11	046341		1	Retaining ring, input/layshaft
12	046332		1	Taper bearing, input/layshaft
13	046368	As Req		Shim, DIN988, 70 x 90 x 0.5
13	046369	As Req		Shim, DIN988, 70 x 90 x 0.3
13	046370	As Req		Shim, DIN988, 70 x 90 x 0.1
14	046342		1	Retaining ring, input/layshaft
15	046353		1	Plug cover, input



Item	Part Number	Type	Qty	Description
Shifting Pneumatic Cylinder - HP-R-6 Gearbox - Rögelberg				
1	046319		1	Mounting bracket, adapter ram
1	047331*		1	Mounting bracket, adapter ram
2	046392		4	Bolt, M8 x 20
3	046328		1	Clevis pin, rear
3	047336 *		1	Clevis pin, rear
4	046417		2	Washer, M16R
5	046395		1	Split pin, 4 x40
6	046396		1	Pneumatic cylinder
6	046396 *		1	Pneumatic cylinder
7	046397		1	Cylinder fixing eye
7	046397*		1	Cylinder fixing eye
8	046392		4	Bolt, M8 x 20
9	046324		1	Clevis, adapter
9	046324 *		1	Clevis, adapter
10	046327		2	Clevis pin, front
11	046416		2	Washer, M12
12	046395		1	Split pin, 4 x40
13	046383		3	Cover, rear
13	047333 *		3	Cover, rear
14	046413 †		3	Bolt, M12 x 60
15	046414 †		3	Washer, M12
16	046415 †		3	Nut, hex , M12
17	046320		1	Cover, front
17	047332 *		1	Cover, front
18	046393		2	Bolt, M12 x 20

Notes:-

* For gearbox models 6443-M-9 and 6443-M-12

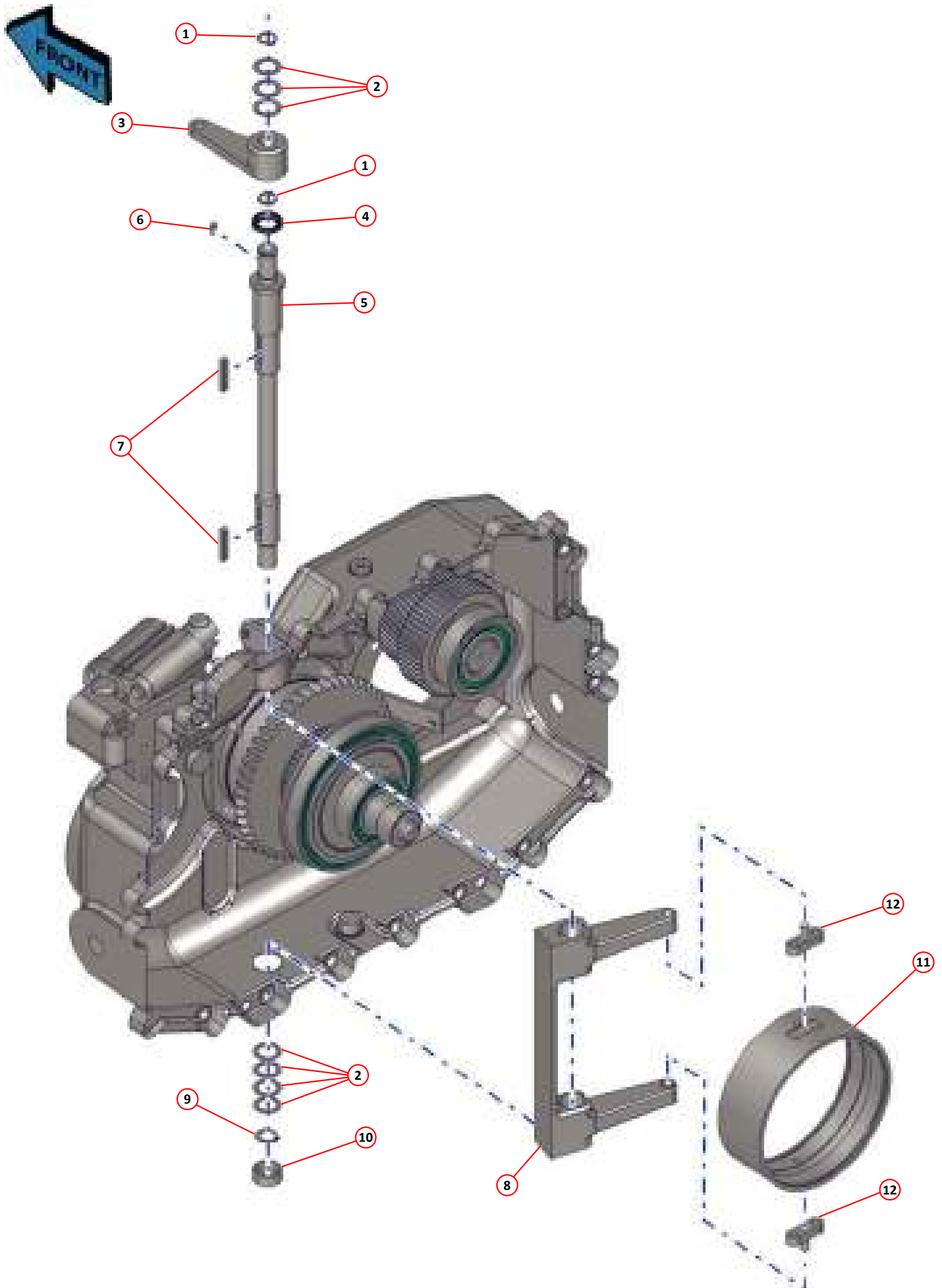
† These items are fixings of the case, shown here for reference. See page 644.

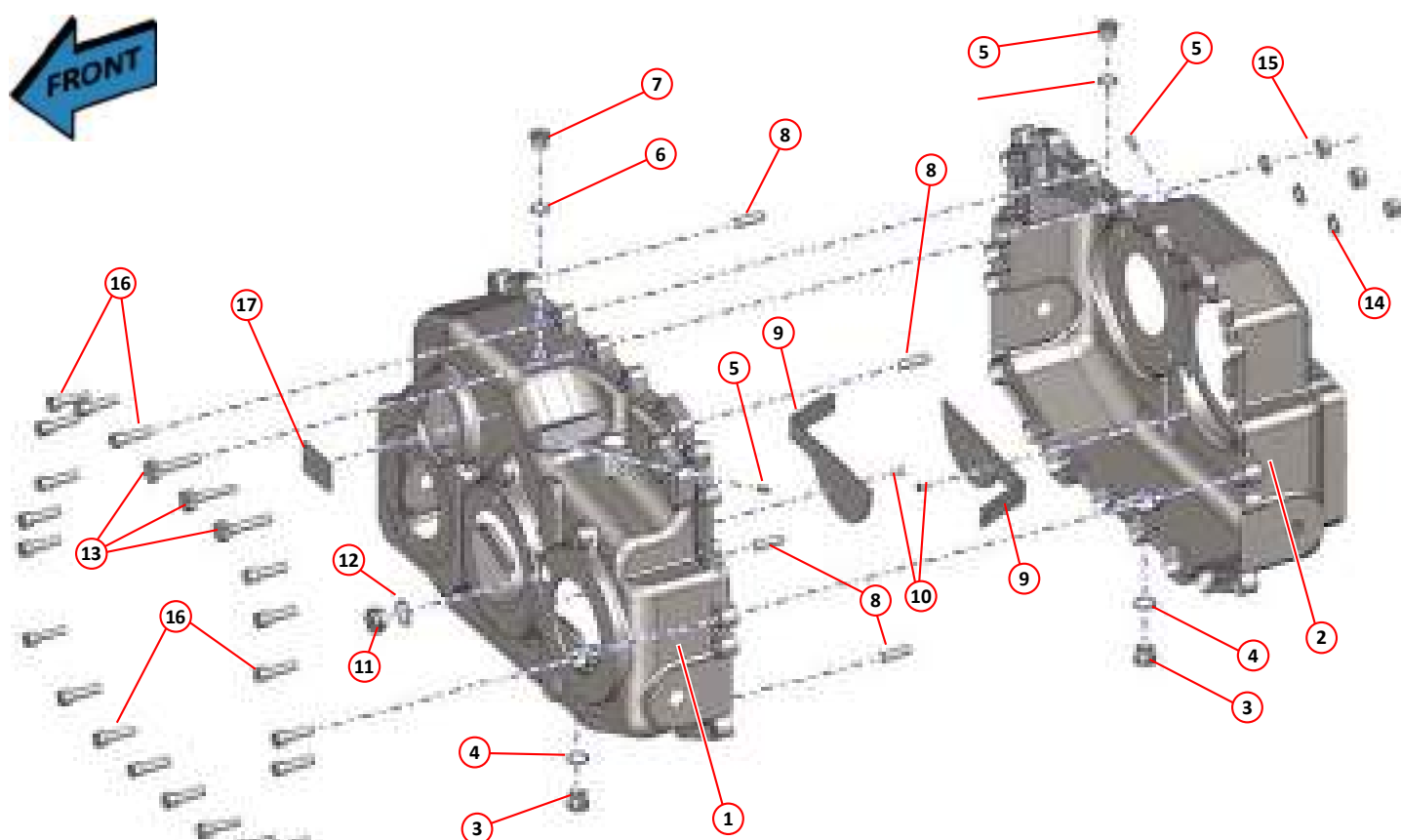
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Item	Part Number	Type	Qty	Description
Selector Mechanism - HP-R-6 Gearbox - Rögelberg				
1	046347		2	Retaining ring, selector shaft
2	046378		As Req	Shim, DIN988, 20 x 28 x 0.5
2	047338 *		As Req	Shim, DIN988, 20 x 28 x 0.5
2	046379		As Req	Shim, DIN988, 20 x 28 x 0.3
2	047339 *		As Req	Shim, DIN988, 20 x 28 x 0.3
2	046380		As Req	Shim, DIN988, 20 x 28 x 0.1
2	044740 *		As Req	Shim, DIN988, 20 x 28 x 0.1
2	046381		As Req	Shim, DIN988, 20 x 28 x 1.0
2	047431 *		As Req	Shim, DIN988, 20 x 28 x 1.0
3	046322		1	Shifting lever
3	047334 *		1	Shifting lever
4	046352		1	Seal, radial shaft, selector shaft
5	046317		1	Switching threshold shaft
5	047330 *		1	Switching threshold shaft
6	046329		1	Key, selector shaft
6	047337 *		1	Key, selector shaft
7	046401		2	Key, 6 x 6 x 40
8	046318		1	Shifting fork
9	046348		1	Circlip, selector shaft
10	046355		1	Plug cover, selector shaft
11	046313		1	Shifting ring, output
12	046326		2	Key, shifting element

Notes:-

* For gearbox models 6443-M-9 and 6443-M-12

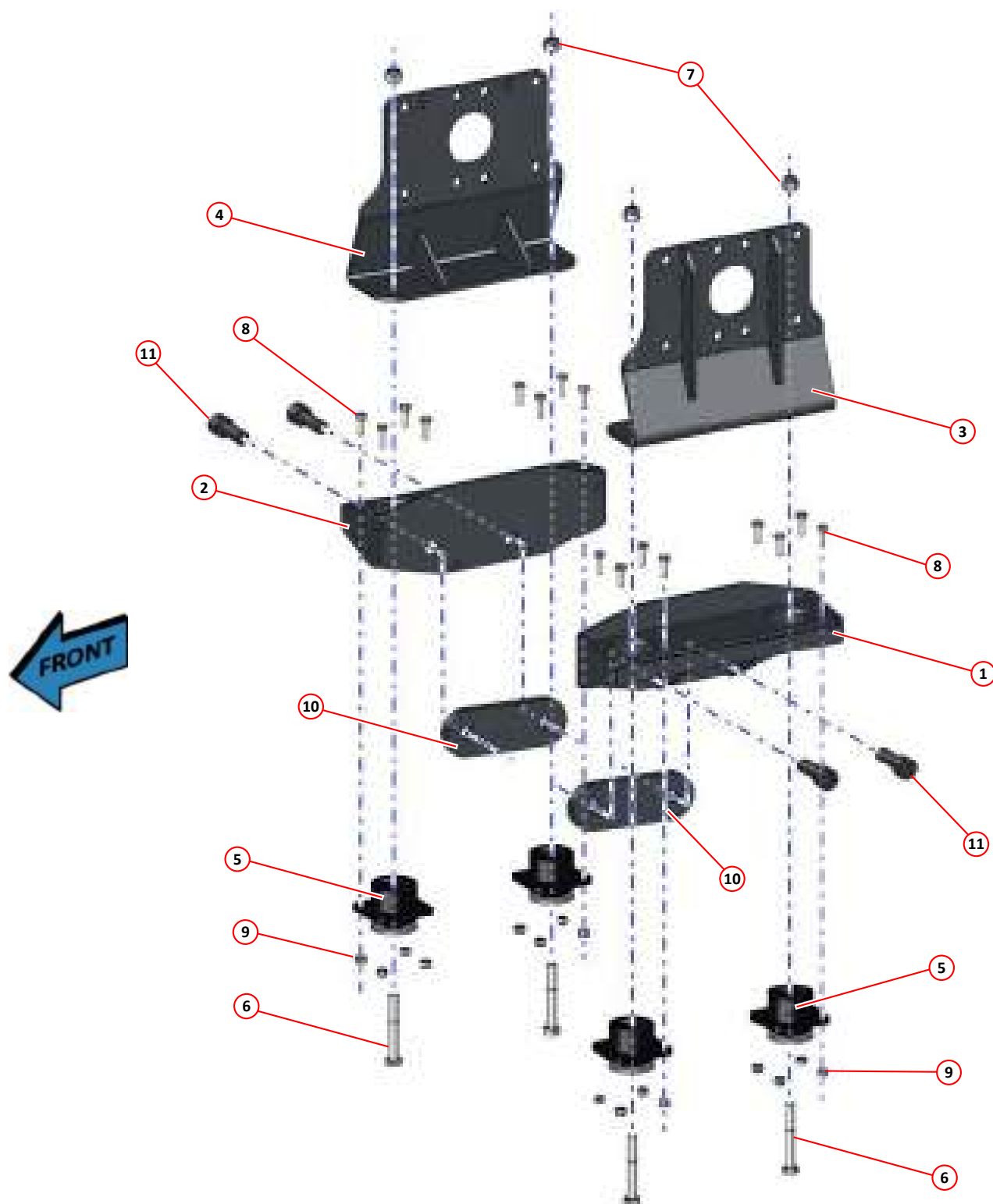




Item	Part Number	Type	Qty	Description
Casings and fittings - HP-R-6 Gearbox - Rögelberg				
1	046292		1	Gearbox casing, front
1	047328 *		1	Gearbox casing, front
2	046293		1	Gearbox casing, rear
2	047329 *		1	Gearbox casing, rear
3	046405		2	Screw plug, M22 x 1.5
4	046409		2	Seal, 22 x 27
5	046406		2	Screw plug, M18 x 1.5
6	046410		2	Seal, 18 x 22
7	046412		2	Bolt, M10 x 20
8	046402		4	Pin, 12 x 40
9	046323		2	Steel plate cover
10	046394	As Req		Bolt, countersunk, CSK M6 x 12
11	046404		1	Sight glass, M26 x1.5
12	046418		1	Seal, 26 x 31 x 2
13	046413		3	Bolt, M12 x 60
14	046414		3	Washer 13
15	046415		3	Hex nut, M12
16	046388		18	Bolt, M12 x40
17	046419		1	Name plate

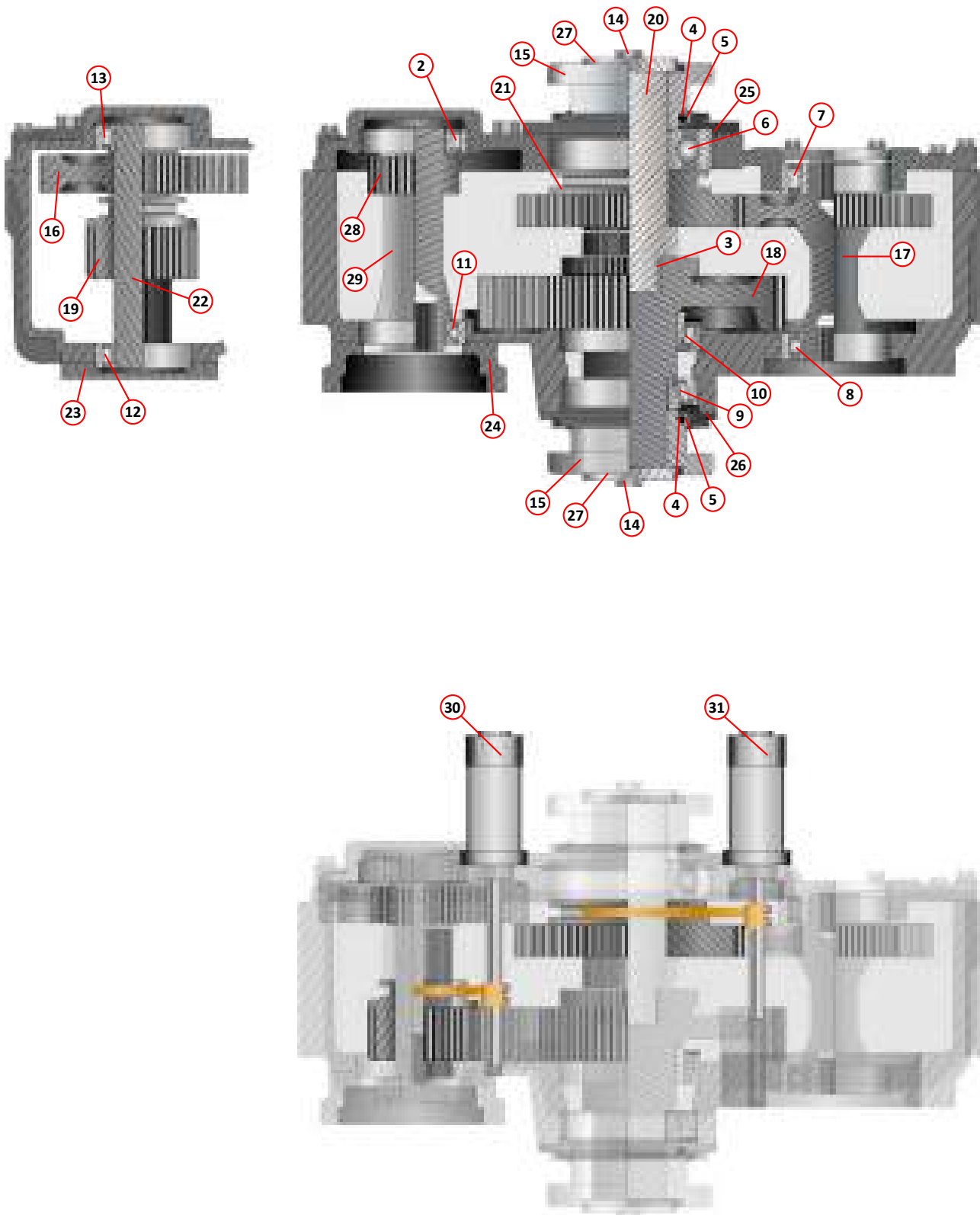
Notes:-

* For gearbox models 6443-M-9 and 6443-M-12



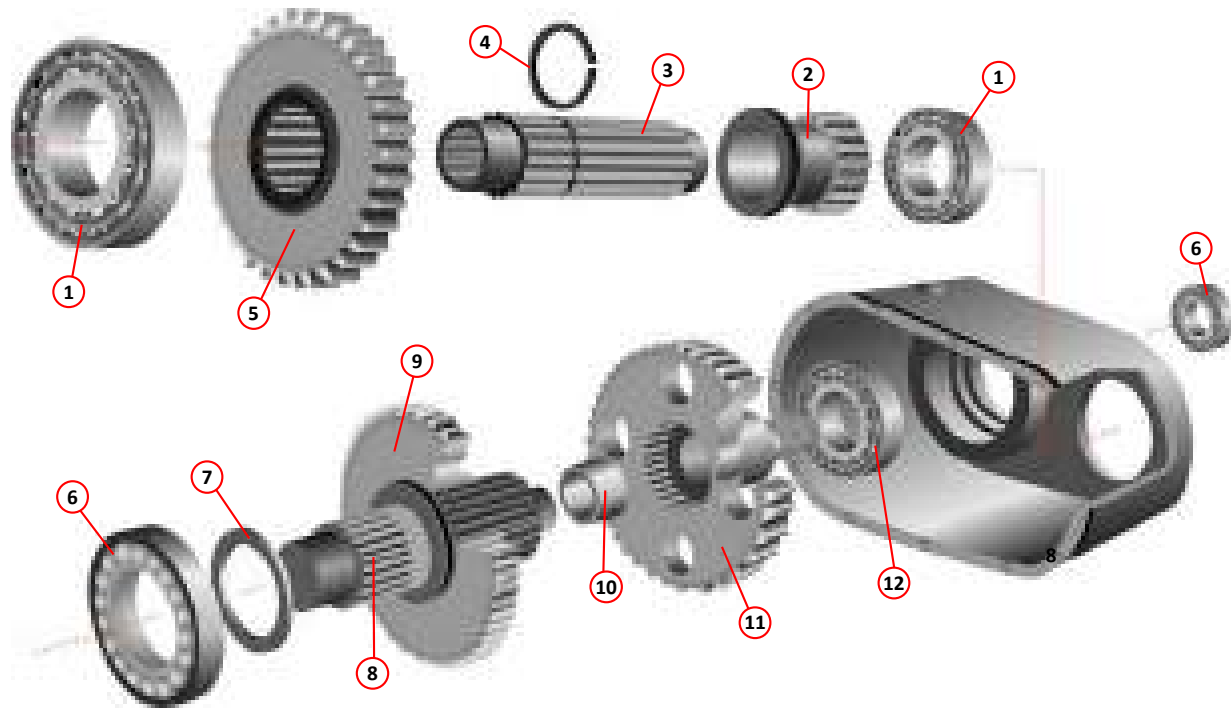
Item	Part Number	Quantity	Description
Gearbox mounting - Rögelburg			
1	045754	1	Bracket, gearbox Rögelburg, 3°, left hand, attaches to gearbox
2	045755	1	Bracket, gearbox Rögelburg, 3°, right hand, attaches to gearbox
3	048790	1	Gearbox bracket, Rögelburg, left hand, attaches to vehicle chassis
4	048791	1	Gearbox bracket, Rögelburg, right hand, attaches to vehicle chassis
5	033838	4	Anti-vibration mounting, MS243/5 (HD type)
6	011423	4	Bolt HT M16 x 110
7	011060	4	Nyloc nut T M16
8	011032	16	Setscrew HT M10 x30
9	011075	16	Nyloc nut T M10
10	044363	2	gearbox mounting plate
11	000501	4	Socket cap head screw M24 x60 12.9

<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Gearbox HP Types			
1	034563	1	Gearbox, HP, 1:1 Ratio Type 1
1	034435	1	Gearbox, HP, 0.75:1 Ratio Type 2
1	034515	1	Gearbox, HP, 0.75:1 Ratio Type 6
2	014581	1	Roller bearing
3	039290	1	Needle roller bearing
4	039291	1	Oil seal
5	039292	1	Dirt seal
6	039293	1	Ball bearing
7	014579	1	Roller bearing
8	039294	1	Ball bearing
9	039295	1	Taper roller bearing
10	039296	1	Taper roller bearing
11	013773	1	Ball bearing
12	014579	1	Roller bearing
13	014579	1	Roller bearing
14	039319	1	Tab washer
15	040211	2	Flange-companion KV150
16	040327	1	Motor wheel, 45T (for 034563 Type 1 gearbox)
16	040327	1	Motor wheel, 45T (for 034435 Type 2 gearbox)
16	040343	1	Motor wheel, 43T (for 034515 Type 6 gearbox)
17	040328	1	Motor shaft, 42T (for 034563 Type 1 gearbox)
17	040341	1	Motor shaft, 48T (for 034435 Type 2 gearbox)
17	040341	1	Motor shaft, 48T (for 034515 Type 6 gearbox)
18	040329	1	Gear-output
19	040330	1	Pinion-selector
20	040331	1	Shaft-input
21	040332	1	Input selector gear, 51T (for 034563 Type 1 gearbox)
21	040342	1	Input selector gear, 45T (for 034435 Type 2 gearbox)
21	040342	1	Input selector gear, 45T (for 034515 Type 6 gearbox)
22	040333	1	Shaft-transfer
23	040334	1	End cap
24	040335	1	Motor adaptor
25	040336	1	Seal housing
26	040337	1	Seal housing
27	040338	2	Washer
28	040339	1	Pump gear, 18T (for 034563 Type 1 gearbox)
28	040339	1	Pump gear, 18T (for 034435 Type 2 gearbox)
28	040344	1	Pump gear, 22T (for 034515 Type 6 gearbox)
29	040340	1	Pump shaft
30	035374	1	Cylinder, pneumatic, gear change Page 542
31	035373	1	Cylinder, pneumatic, gear change Page 542
NI	036800	2	Magnetic sensor Page 556



Rögelberg Gearbox HP Type Ratio Build Configurations

<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Scarab Reduction Box Internal Parts			
1	014579	2	Roller bearing, NJ309-E-TVP2
2	014423	1	Pinion gear, 19-tooth
3	014431	1	Splined shaft
4	014495	1	Circlip, external, 52mm
5	014425	1	Gear, 40-tooth, (Ratio 4.75:1)
5	024852	1	Gear, 48-tooth, (Ratio 3.18:1)
6	013771	2	Ball bearing, 6310NR
7	014421	1	Washer, 51mm ID x 65mm OD x 3mm thick
8	014432	1	Splined shaft
9	023592	1	Gear, 41-tooth, (Ratio 4.75:1)
9	024851	1	Gear, 33-tooth, (Ratio 3.18:1)
10	014494	1	Needle bearing, K30 x 40 x 30
11	014422	1	. Gear, 62-tooth
12	014493	1	Bearing, roller, NJ314-E-TVP2



Scarab Reduction Gearbox Internal Parts

Item	Part Number	Quantity	Description
Scarab Reduction Box External Parts			
	024867	1	Gearbox, 3.18:1 ratio, Complete
	024868	1	Gearbox, 4.75:1 ratio, Complete
1	024855	1	Casing, gearbox
NI	024857	1	Gasket
3	024856	1	Cover, gearbox
4	011155	1	Seal, dowty, $\frac{3}{4}$ " BSP
5	021524	1	Adaptor, $\frac{3}{4}$ " x $\frac{1}{4}$ " BSP, M/F
6	011152	1	Seal, dowty, $\frac{1}{4}$ " BSP
7	020688	1	Filter/breather
8	014502	2	Gasket
9	049730	2	Seal cap, gearbox v2
10	011028	8	Socket cap head, M10 x 25mm
11	014433	2	Flange
12	014499	2	Washer 60 x 41 x 3
13	014498	2	Lock ring, M40 x 1.5
14	042297	1	Seal kit, 2 seals and fitting tool
15	014491	1	Sight glass, oil level
16	000070	8	Socket cap head, M10 x 50mm
17	014480	2	Bearing cap
18	014503	2	Gasket
19	011408	12	Socket cap head, M10 x 30mm
20	014490	2	Dowel pin
21	011244	1	Plug, $\frac{3}{4}$ " BSP
22	011155	1	Seal, dowty, $\frac{3}{4}$ " BSP
23	021316	1	Plug, magnetic, $\frac{3}{4}$ " BSP

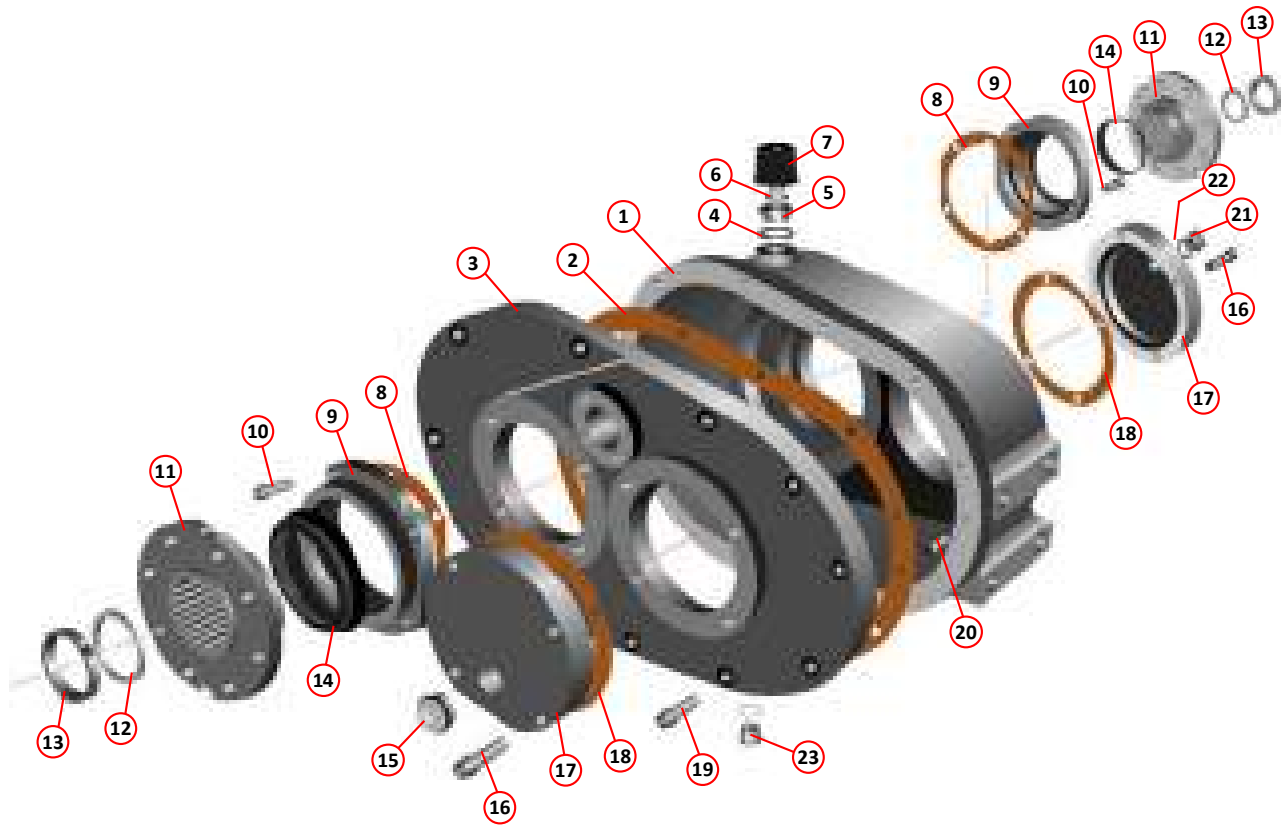
 Some vehicles are equipped with the Knowles reduction gearbox instead of the Scarab unit. If parts are required, please contact our parts department quoting your model/chassis type and the machine serial number.



Knowles Reduction Box



Scarab Reduction Box

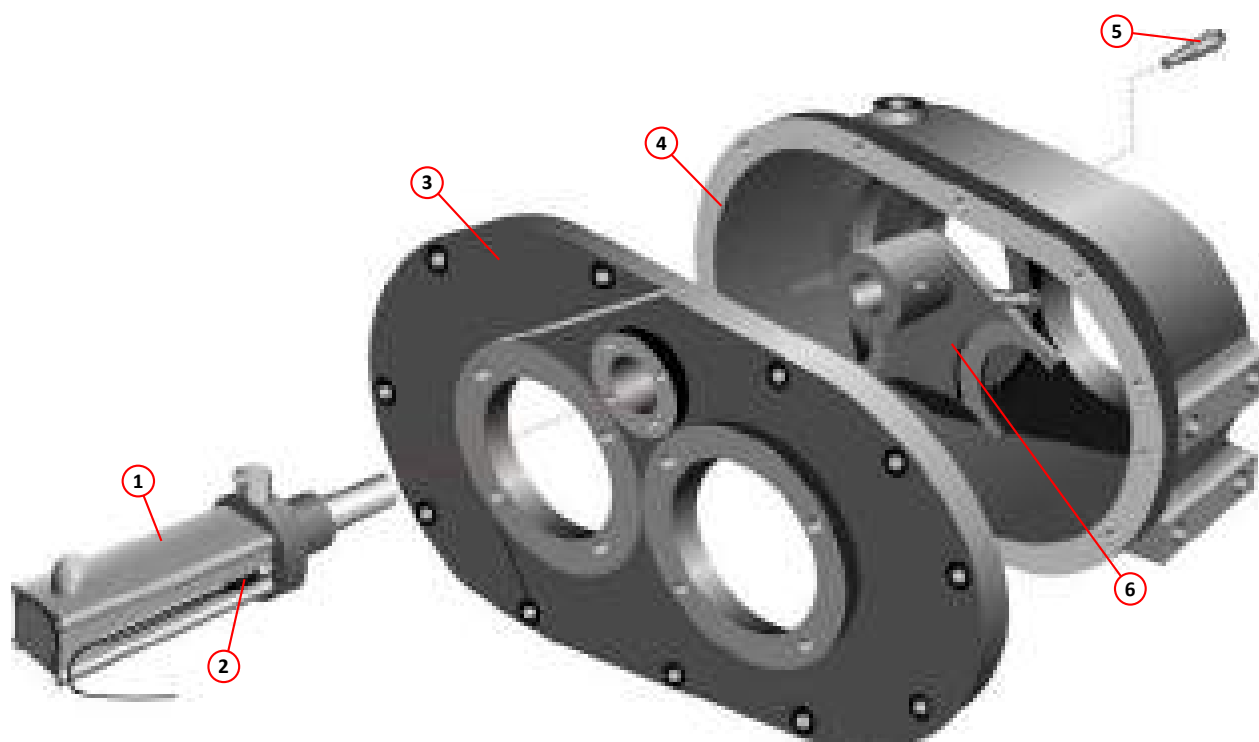


Scarab Reduction Gearbox External Parts

<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Scarab Reduction Box - Changer Parts			
1	026087	1	Pneumatic cylinder Page 542
2	036800	2	Magnetic sensor Page 556
3	024856	1	Cover
4	024855	1	Case
5	046739	1	Gearbox speed sensor, 34mm, DTCO 4 compliant Page 556
6	024874	1	Selector fork
	000037	1	Socket cap head, M6 x 40mm

<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Non Scarab Reduction Box PTO Seals			
NI	030571	1	PTO Seal (Ref. on Oil Seal 01055) Common to DAF/IVECO
NI	030572	1	PTO Seal (Ref. on Oil Seal 01018) Common to DAF/IVECO
NI	030573	1	PTO Seal (Ref. on Oil Seal 01016) Common to RENAULT
NI	030574	1	PTO Seal (Ref. on Oil Seal 01059) Common to SCANIA

<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Non Scarab Reduction Box Seals			
NI	030575	1	Seal, Reduction box 24T (Ref. on Oil Seal 01002)
NI	030576	1	Seal, Reduction box 33T (Ref. on Oil Seal 01060)



Scarab reduction gearbox changer arrangement

Scarab Gearbox/Prop Shaft Installations

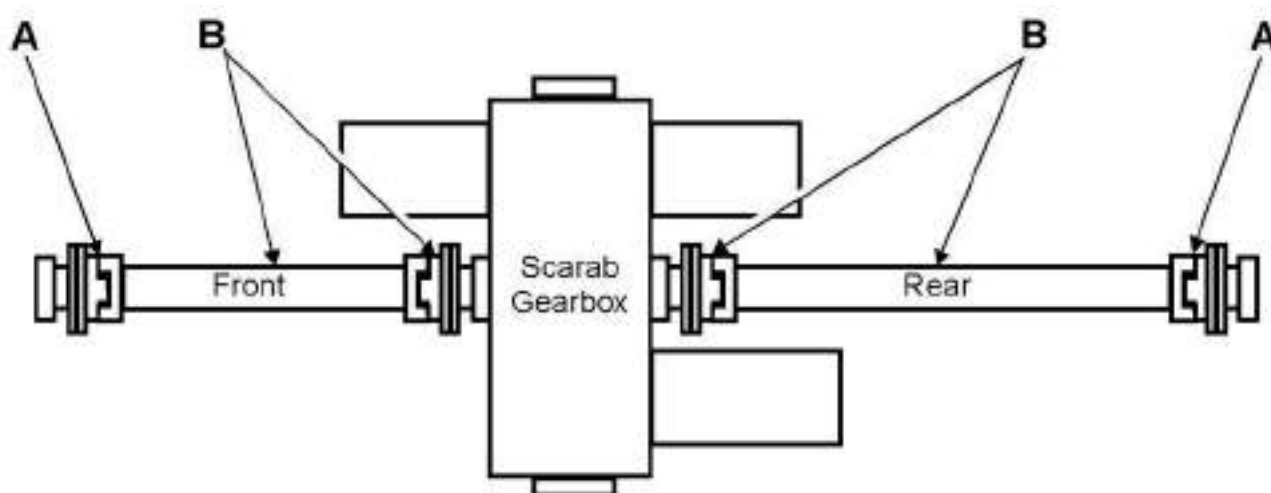
Scarab truck-mounted sweepers with either the hydrostatic gearbox or the unidrive reduction gearbox installed in the truck's drive train, do not utilise the original prop shaft. This is removed and is replaced by two shorter units, one forward of the Scarab gearbox and one to the rear.

This modification affects the procurement of replacement parts as follows:

- q The outer universal joints i.e. those adjacent to the differential housing and to the truck gearbox should be obtained direct from the truck manufacturer in question.
- q The inner universal joints i.e. those on the input and output sides of the Scarab transfer gearbox on the front and rear prop shafts can be obtained from Scarab Sweepers Limited.

It is not feasible to list in this document all prop shaft variations for all truck chassis configurations due to the need to accommodate chassis alterations introduced periodically by the manufacturers. This also applies to other installation items such as the brackets that mount the gearbox to the chassis.

To ensure, therefore, that the correct items are procured when needed, please consult the Scarab Parts Department, giving your chassis type, serial number and the Scarab Sweeper serial number.



Legend: - Input & Output U/J's Scarab part 014935
 A - Procure from chassis manufacturer
 B - Procure from Scarab

Gearbox Mounting Arrangements

The mounting arrangements for all hydrostatic and reduction gearboxes on Scarab truck mounted sweepers are model/chassis specific. To procure replacement components, please contact the Scarab Parts department stating your model/chassis type and the machine serial number.



Cab and Instruments

<i>Assembly/Description</i>	<i>Page</i>
Cab Items - Controls - CAN bus 3	656
Cab Items - Controls - CAN bus 3.1	658
Additional Cab Items	660

Item	Part Number	Quantity	Description
Cab Items - Controls - CAN bus 3			
1		1	Main control panel, complete (two speed brushes) Page 552
2	037055	1	. Fixing plate, enclosure, main control panel
	000346	2	. . Screw, socket button head, M5 x 16mm
	000155	2	. . Nut, M5, Nyloc
3	037073 *	1	. Ball joint, control panel mounting
NI	036912	1	. Loom, main control panel Page 554
NI	036914	1	. . Loom, power, main control panel Page 554
4	042348	1	Display screen CANbus v3.0 (programmed) Page 552
5	030188*	1	. Ball joint, display screen
NI	036916	1	. Loom, display screen, CANbus 3 Page 554
6	†	1	Hopper controller, complete Page 552
NI	†	1	. Loom, hopper controller Page 554
7	†	1	. Storage pocket, hopper controller
8	037604	1	Auxiliary controller, left hand, complete, (Hydrostatic) Page 552
8	037605	1	Auxiliary controller, right hand, complete, (Hydrostatic) Page 552
9	036806	1	Auxiliary controller, left hand, complete, (UniDrive) Page 552
9	036807	1	Auxiliary controller, right hand, complete, (UniDrive) Page 552
10	037064	1	. Clamp, fixing plate
NI	036913	1	. Loom, auxiliary controller Page 554
NI	036915	1	. . Loom, power, auxiliary controller Page 554
11	‡	1	. Bracket, mounting, auxiliary controller
NI	036907	1	Loom, clutch switch Page 554
NI	026332	1	Loom, tacho Page 554
NI	036666	1	Loom, main controller, NODE 3 Page 554
12	044294	1	Hopper controller, complete with holster Page 552

Notes:-

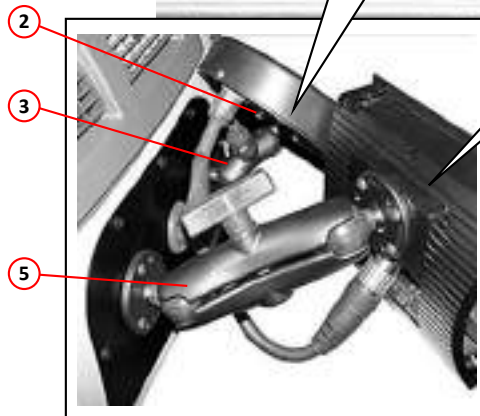
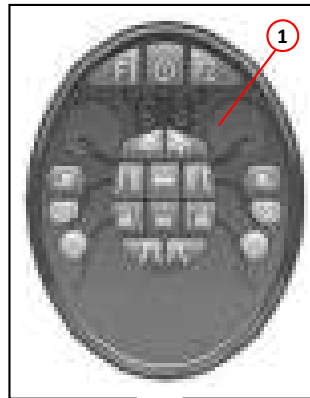
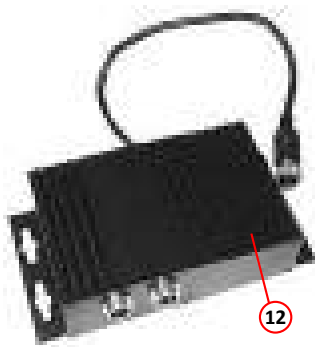
- * Screen and control mountings are dependant on chassis/cab layouts, please contact Scarab Parts Department.
- † As of March 2016 if you have one of these controllers then please order item 12 instead.
- ‡ This Item is chassis specific, please contact the Scarab Parts Department quoting Model, Chassis Type and Machine Serial Number.



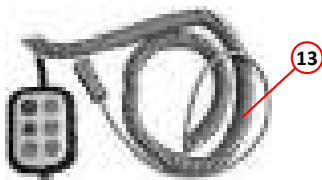
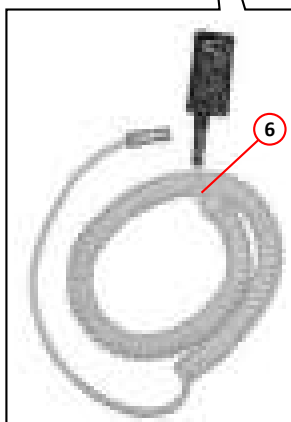
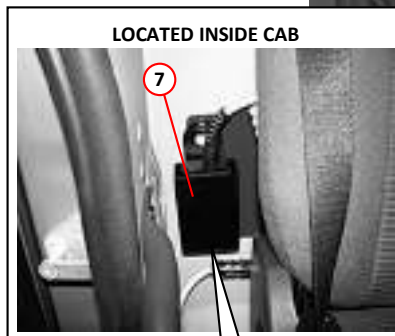
Item	Part Number	Quantity	Description
Cab Items - Controls - CAN bus 3.1			
1		1	Main control panel, complete (variable brush speed) Page 552
2	037055	1	. Fixing plate, enclosure, main control panel
	000346	2	. . Screw, socket button head, M5 x 16mm
	000155	2	. . Nut, M5, Nyloc
3	037073 *	1	. Ball joint, control panel mounting
NI	036912	1	. Loom, main control panel Page 554
NI	036914	1	. . Loom, power, main control panel Page 554
4	042360	1	Display screen CANbus v3.1 (programmed)
5	030188*	1	. Ball joint, display screen
NI	040349	1	. Loom, display screen, CANbus 3.1 Page 554
6	†	1	Hopper controller, complete Page 552
NI	†	1	. Loom, hopper controller Page 554
7	†	1	. Storage pocket, hopper controller
8	037604	1	Auxiliary controller, left hand, complete, (Hydrostatic) (new fan symbol) Page 552
8	037605	1	Auxiliary controller, right hand, complete, (Hydrostatic) (new fan symbol) Page 552
9	037606	1	Auxiliary controller, left hand, complete, (UniDrive) (new fan symbol) Page 552
9	037607	1	Auxiliary controller, right hand, complete, (UniDrive) (new fan symbol) Page 552
10	037064	1	. Clamp, fixing plate
NI	036913	1	. Loom, auxiliary controller Page 554
NI	036915	1	. . Loom, power, auxiliary controller Page 554
11	‡	1	. Bracket, mounting, auxiliary controller
NI	036907	1	Loom, clutch switch Page 554
NI	026332	1	Loom, tacho
NI	036666	1	Loom, main controller, NODE 3 Page 554
NI	040353	1	Loom, power supply, rear camera Page 388,552,554
NI	040355	1	Loom, rear camera Page 388,552,554
12	041534	1	Camera splitter Page 556
13	044294	1	Hopper controller, complete includes holster Page 552

Notes:-

- * Screen and control mountings are dependant on chassis/cab layouts, please contact Scarab Parts Department.
- † As of March 2016 if you have one of these controllers then please order item 13 instead.
- ‡ This Item is chassis specific, please contact the Scarab Parts Department quoting Model, Chassis Type and Machine Serial Number.



5



Item	Part Number	Quantity	Description
Additional Cab Items			
1	023242	1	Regulator, pressure
NI	023203	2	. Elbow, push-fit, 6mm - $\frac{1}{4}$ " BSP
NI	023203	1	. Elbow, push-fit, 6mm - $\frac{1}{8}$ " BSP
2	023246	1	Gauge, pressure, 0 - 10 bar
NI	024643	1	. Connector, straight, push fit, 6mm - $\frac{1}{8}$ " BSP
	011094	1	. Washer, M10
3	037249	AR	Switch body, toggle, ON/OFF Page 556
NI	037248	AR	Switch body, toggle, ON/OFF/ON Page 556
NI	037009	1	. Loom up/down pressure
NI	*	1	. Plate, dash mounting (side brush)
4	037247	AR	. . Rubber boot, toggle switch
5	036799 †	3	Node, cabinet module (CR2012) Page 552
6	038985 †	3	Node, E9G212, cabinet module (CR2012) Page 552
7	036798	1	Controller, CR0505 Page 552
NI	037048	1	Sounder Page 556
8	039060	2	LED current source Page 552
9	022224	1	Clutch sensor Page 556
10	022225	1	Clutch sensor, magnet Page 556

Notes:-

- * This Item is chassis specific, please contact the Scarab Parts department quoting Model, Chassis Type and Machine Serial Number.
- † Contact Scarab Parts Department regarding these nodes.

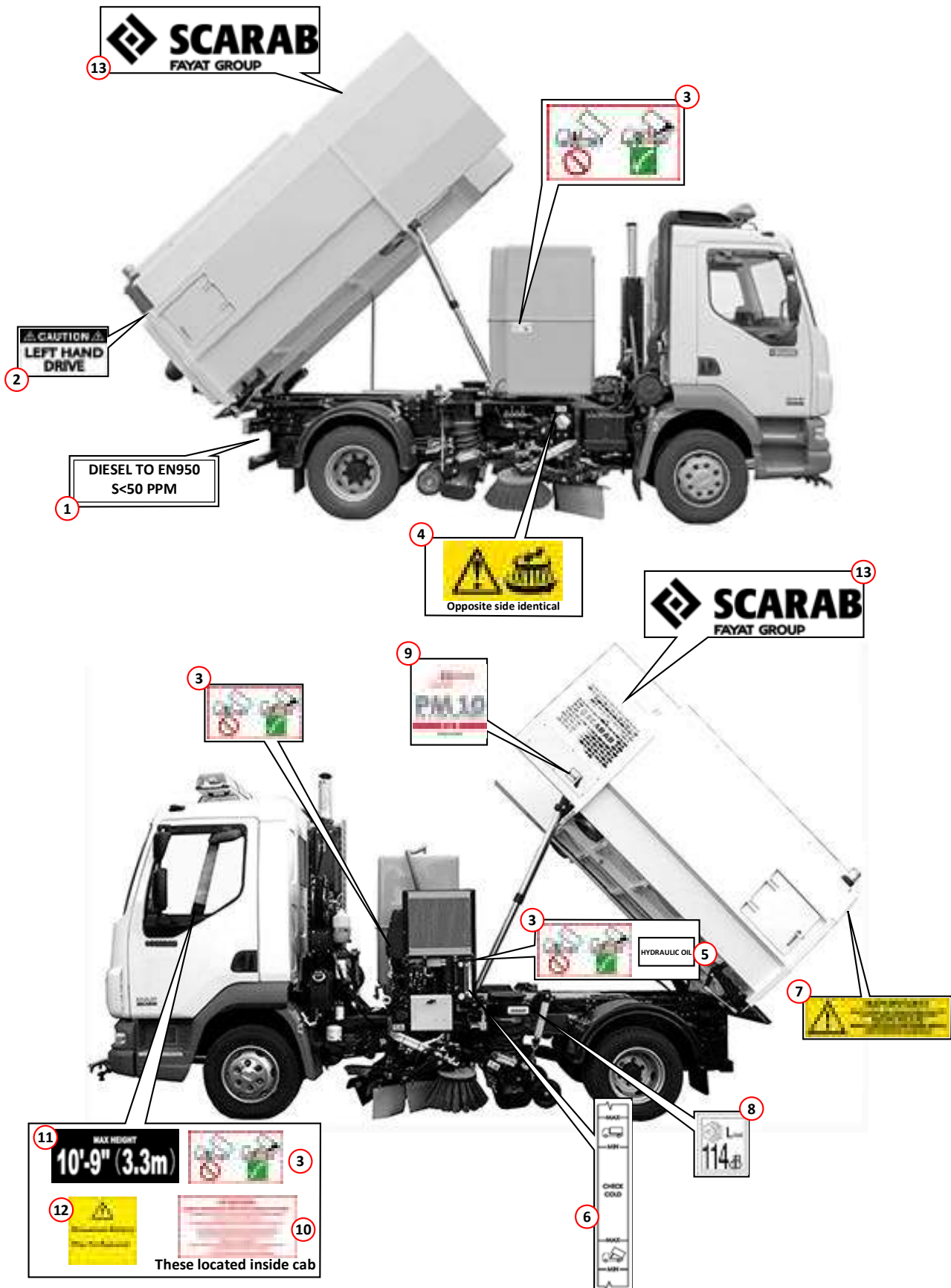




Labels and Decals

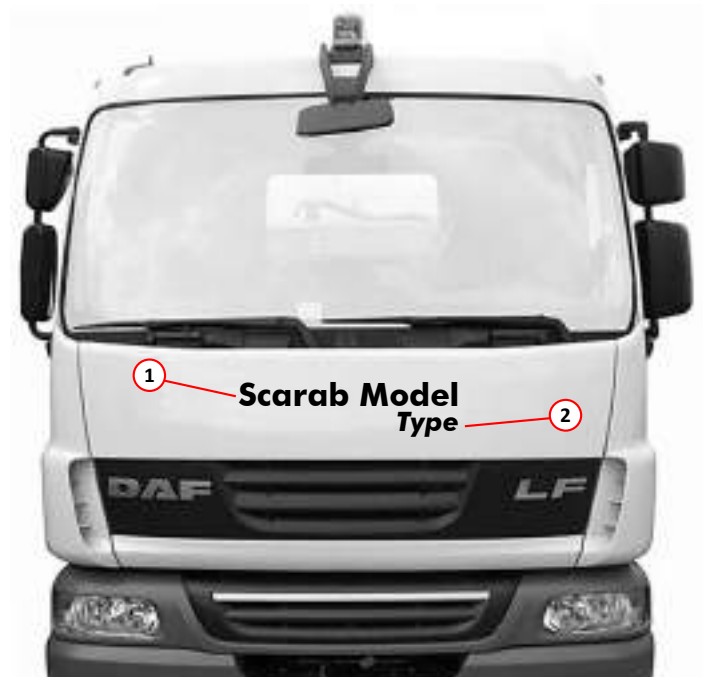
<i>Assembly/Description</i>	<i>Page</i>
Warning, Caution and Advice Labels	664
Badges and Vinyl Decals	666

<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Warning, Caution and Advice Labels			
1	036222	2	Diesel Fuel Grade
2	028408	1	CAUTION, Left - Hand Drive
3	022384	3	WARNING, Hopper Prop Deployment Page 360
4	022383	6	WARNING, Brush Rotating Page 360
5	028408	1	Hydraulic Oil
6	034548	1	Hydraulic Oil Level
7	021061	1	WARNING, Fan Inspection (inside inspection cover)
8	027774	1	Sound Level (114 dB)
9	034814	1	EUnited - PM10
10	032409	1	WARNING, Battery Charging
11	021291	1	Max Height, 9' 10" (3m)
NI	037720	1	Max Height, 10' 4" (3.15m)
NI	021292	1	Max Height, 10' 9" (3.3m)
12	036170	1	Disconnect Battery Page 360
13	042983	AR	Scarab Fayat logo, black
NI	042984	AR	Scarab Fayat logo, white

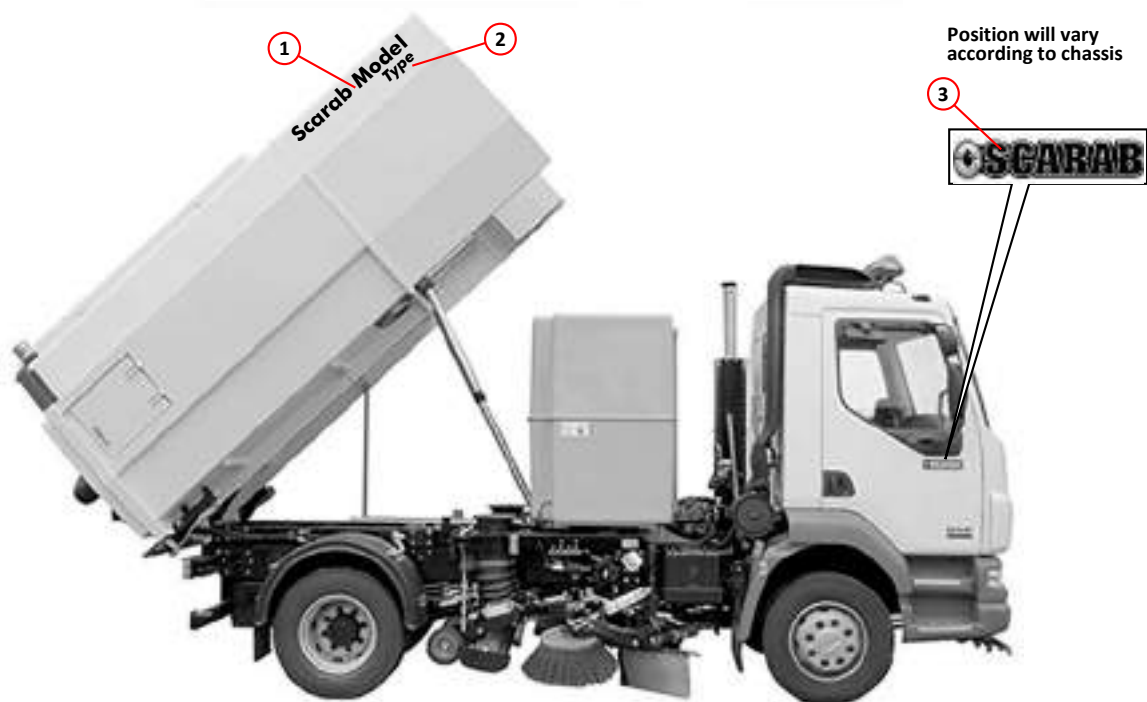


Warning, Caution and Advice Labels

<i>Item</i>	<i>Part Number</i>	<i>Quantity</i>	<i>Description</i>
Badges and Vinyl Decals			
1	026706	3	Vinyl Decal - SCARAB MAGNUM
	026019	3	Vinyl Decal - SCARAB MERLIN
	022893	3	Vinyl Decal - SCARAB MAJOR (France only)
NI	026092	3	Vinyl Decal - 5001
NI	026093	3	Vinyl Decal - 5501
NI	026094	3	Vinyl Decal - 7001
NI	026095	3	Vinyl Decal - 7501
NI	026096	3	Vinyl Decal - 8000
NI	034071	3	Vinyl Decal - 8001
NI	026097	3	Vinyl Decal - 8500
2	026020	3	Vinyl Decal - HYDROSTATIC
	026021	3	Vinyl Decal - UNIDRIVE
	032992	3	Vinyl Decal - XP Hydrostatic (Red)
	038147	3	Vinyl Decal - XP Unidrive (Green)
3	030200	2	Body badge, vacuum-plated plastic
4	042983	2	SCARAB FAYAT logo black
5	042984	2	SCARAB FAYAT logo white
6	045762	2	Badge FAYAT, domed



Typical application shown but individual vehicles might differ depending upon livery requirements



Multi-lingual glossary

<i>Description</i>	<i>Page</i>
English	292
Français	292
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English	Français	Italiano
A		
Access	Accès	Accesso
Accessories	Accessoires	Accessori
Accelerator	Accélérateur	Acceleratore
Actuator	Servomoteur	Attuatore
Adapter (adapt)	Adaptateur	Adattatore
Adapter Flange	Adaptateur à bride	Flangia adattatore
Adapter Plate	Adaptateur, à plaque	Piastra adattatore
Adapter, Straight	Adaptateur, droit	Adattatore in linea
Adjuster	Régulateur	Dispositivo di regolazione
Adjuster Kit	Régulateur, kit	Corredo dispositivo di regolazione
Adjuster Valve	Vanne de régulation	Valvola dispositivo di regolazione
Adjustable	Ajustable	Regolabile
Aerial	Antenne	Antenna
Air	Air	Aria
Air Cleaner	Filtre à air	Filtro aria
Air Conditioner	Climatiseur	Condizionatore aria
Air Cylinder	Cylindre d'air	Cilindro aria
Air Filter	Filtre à air	Filtro aria
Air Manifold	Collecteur d'air	Collettore aria
Air Mass Meter	Compteur d'air-massique	Flussometro di massa
Air Feed	Injecteur d'air	Alimentazione aria
Air Chute	Goulotte pneumatique	Lobo aria-aria
Air Outlet	Sortie d'air	Bocca di uscita aria
Air Muffler	Amortisseur d'air	Silenziatore aria
Air Pressure Regulator	Régulateur de pression d'air	Regolatore pressione aria
Air Ram	Vérin pneumatique	Pistone aria
Air Valve	Soupape d'air	Valvola di sfiato
Air Vent Pipe	Tuyau de refoulement d'air	Tubo di sfiato
Alternator	Alternateur	Alternatore
Alternator Interface	Alternateur, interface	Interfaccia alternatore
Aluminium (Alum)	Aluminium (alum)	Alluminio (Allum.)
Anchor	Ancre, dispositif d'ancrage	Ancora
Angle	Angle	Angolo
Antiluce Fastener	Fixation « Antiluce »	Dispositivo di fissaggio Antiluce
Amendment (Amdt.)	Modification (modif.)	Rettifica (rett.)
Amplifier	Amplificateur	Amplificatore
Arrangement	Disposition	Disposizione
Assembly (Assy)	Ensemble	Gruppo
Auto Blanking	Fermeture automatique	Autochiusura
Automatic	Automatique	Automatico

English	Français	Italiano
Auxiliary	Auxiliaire	Ausiliario
Axle	Essieu	Asse
Axle Beam	Essieu, fusée d'	Asta asse
Axle Bolt	Essieu, boulon d'	Bullone asse
Axle Breather	Essieu, reniflard d'	Sfiatatoio asse
Axle Carrier & Tube	Essieu, porte-essieu et tube	Supporto e tubo asse
Axle Front	Essieu, avant	Frontale asse
Axle Rear	Essieu, arrière	Retro asse
Axle Washer	Essieu, rondelle d'	Rondella asse
B		
Back Plate	Socle	Piastra di supporto
Bag	Sac	Borsa
Ball	Bille	Sfera
Ball End	Rotule	Estremità arrotondata
Ball Joint	Joint sphérique	Giunto sferico
Ball Valve	Vanne à boisseau	Valvola a sfera
Bar	Barre	Barra
Basin	Cuvette	Bacino
Battery	Batterie	Batteria
Battery Housing	Batterie, logement de	Sede batteria
Battery Terminals	Batterie, bornes	Terminali batteria
Battery Lead	Batterie, câble	Cavo batteria
Battery Tray	Batterie, plateau	Vassoio portabatteria
Beacon	Gyrophare	Segnale luminoso
Beacon Bar	Barre de gyrophare	Barra segnale luminoso
Beam	Phare	Fascio
Bearing	Roulement, palier	Cuscinetto
Bell Housing	Logement évasé	Sede campanello
Bellows	Soufflet	Soffietto
Belt	Courroie	Cinghia
Black	Noir	Nero
Blanking	Obturation	Tappaggio
Beeper	Signal	Emettitore di segnali acustici
Blind Rivet	Rivet aveugle	Ribattino con spina inserita
Block	Bloc	Blocco
Blue	Bleu	Blu
Board	Carton	Piastra
Body	Corps	Corpo
Bolt	Boulon	Bullone
hex hd (hexagonal head)	Boulon à tête 6 pans	testa esagonale
skt hd (socket head)	Boulon à tête creuse	brugola

English	Français	Italiano
csk hd (counter-sunk head)	Boulon à tête fraisée	svasato
Boom	Flèche	Braccio
Boost	Suralimenter	Spinta
Bore	Alésage	Camera cilindrica
Boss	Moyeu, bossage	Mozzo
Bottom	Fond	Fondo
Bottle	Bouteille	Flacone
Box	Boîte	Scatola
Brace	Tirant	Braccio
Bracket (Brkt)	Support	Staffa
Brake	Frein	Freno
Brass Wing Nut	Ecrou à oreilles, en laiton	Galletto di ottone
Breather	Reniflard	Sfiatatoio
Broom	Balai	Scopa
Brown	Marron	Marrone
Brush	Brosse	Spazzola
Base	Base	Base
Buffer	Tampon	Respingente
Build	Construire, modèle	Costruzione
Bulb	Ampoule	Lampadina
Bulkhead	Cloison	Paratia
Bumper	Pare-chocs	Paraurti
Bump Stop	Butoir	Respingente
Bungee Cord	Corde « Bungee »	Cavo elastico
Bush	Manchon / Bague	Boccola
Buzzer	Vibreur	Cicalino
Button	Bouton	Pulsante
C		
Cable	Câble	Cavo
Caliper	Calibre	Pinza
Cam Shaft	Arbre à cames	Albero a camme
Camera	Caméra	Camera
Canopy	Auvent / Capot	Tettuccio
Cap	Capuchon	Cappuccio
Capping	Chapeau	Cornice
Carabiner	Carabine	Carabiner
Carrier	Porte, support	Portante
Case	Boîtier	Scatola
Casing	Boîtier	Involucro
Catalogue	Catalogue	Catalogo
Cab	Cabine	Cabina

English	Français	Italiano
Catch	Cliquet, disp. d'arrêt	Fermo
Caution	Notice « attention »	Attenzione
Centre	Centre	Centro
Chain	Chaîne	Catena
Chassis	Châssis	Chassis
Check	Contrôle	Controllo
Check Valve	Soupape d'arrêt / Clapet	Valvola di ritegno
Chute	Goulotte	Scivolo
Circlip	Circlip	Anello elastico
Circuit	Circuit	Circuito
Clamp	Collier	Morsetto
Cleaner	Nettoyage, dispositif de	Detergente
Clevis	Chape	Maniglione
Clip	Pince	Clip
Clutch	Embrayage	Frizione
Coach	Carrosserie	Carrozzeria
Coil	Bobine	Bobina
Collar	Bague de serrage	Piattello
Complete	Complet (complète)	Completo
Components	Composants	Componenti
Compressor	Compresseur	Compressore
Cone	Cône	Cono
Connector	Connecteur	Connettore
Connecting	Connectant	Connessione in corso
Con Rod (Connecting Rod)	Bielle	Biella
Continued (Cont.)	Suite	Continuazione (cont.)
Control (Cntrl)	Contrôle	Controllo (Cntrl)
Controller	Contrôleur	Unità di controllo
Conventional	Conventionnel	Convenzionale
Conversion (Conv)	Conversion	Conversione (Conv)
Cooler	Refroidisseur	Refrigerante
Cooling	Refroidissement	Raffreddamento
Copper	Cuivre	Rame
Core	Ame	Nucleo
Cotter	Goupille	Chiavetta trasversale
Coupling	Raccord / Accouplement	Accoppiamento
Cover	Couvercle	Coperchio
Cowling	Capotage	Cappottatura
Crank-case	Carter-moteur	Basamento
Cranked	Contre-coudé	Gambo piegato
Cross Member	Traverse	Traversa
Crown Wheel	Couronne d'entraînement	Corona dentata

English	Français	Italiano
Curb	Bord, bordure	Bordo
Cylinder	Cylindre	Cilindro
D		
Damper	Amortisseur	Smorzatore
Deflector	Défecteur	Deflettore
Description	Description	Descrizione
Details	Informations	Dettagli
Detergent	Detergent	Detergente
Diagram	Diagramme	Diagramma
Dial	Cadran	Quadrante
Diaphragm	Diaphragme	Diaframma
Diode	Diode	Diodo
Dipped Beam	Feu de croisement	Anabbagliante
Dipstick	Jauge	Asta di livello
Dipstick guide	Jauge, guide de	Guida asta di livello
Dipstick tube	Jauge, tube de	Tubo asta di livello
Directional	Directionnel	Direzionale
Dirt	Impureté	Sporco
Disc / Disk	Disque	Disco
Display	Écran d'affichage	Visualizzatore
Distributor	Distributeur	Distributore
Diverter	Diviseur	Diverter
Door	Porte	Sportello
Double	Double	Doppio
Dowel	Cheville	Perno di riferimento
Down	Bas	Giù
Dowty Seal	Joint « Dowty »	Chiusura ermetica Dowty
Drag Link Tube	Tube de tige directrice	Tirante longitudinale comando sterzo
Drain Plug	Bouchon de vidange	Tappo di scarico
Drive	Entraînement	Trasmissione
Drive Core	Entraînement, âme d'	Nucleo trasmissione
Drive Coupling	Entraînement, raccord d'	Accoppiamento trasmissione
Drive Dog	Entraînement, crabot d'	Innesco trasmissione
Drive Flange	Entraînement, bride d'	Flangia trasmissione
Drive Motor	Entraînement, moteur d'	Motore principale
Drive Pump	Entraînement, pompe d'	Pompa trasmissione
Drive Shaft	Entraînement, arbre d'	Albero comando
Drive Tube	Entraînement, tube d'	Tubo trasmissione
Dual Sweep	Double balayage	doppia spazzata
Dump Valve	Soupape de décharge	Valvola di scarico rapido
Dust	Poussière	Polvere

English	Français	Italiano
E		
Eccentric	Excentrique	Eccentrico
Elbow	Coude	Gomito
Electric	Electrique	Elettrico
Electrical	Electrique	Elettrico
Element	Élément	Elemento
Enclosure	Enceinte	Alloggiamento
End	Extrémité	Estremità
End Plate	Extrémité, plaque d'	Piastra estremità
End Cap	Extrémité, chapeau d'	Cappuccio estremità
Engine	Moteur	Motore
Exchange	Echange	Scambio
Exhaust	Echappement	Scarico
Exhaust Gas Recirculation (EGR)	Recyclage de gaz d'échappement	Ricircolo gas di scarico
Expansion	Dilatation	Espansione
Extended	Dilaté	Esteso
Extension	Extension	Estensione
Extinguisher	Extincteur	Estintore
F		
Fan	Ventilateur	Ventola
Fastener	Fixation	Dispositivo di fissaggio
Feed	Alimentation	Alimentazione
Female	Femelle	Femmina
Filler	Remplisseur	Bocchettone di riempimento
Filter	Filtre	Filtro
Finisher	Finisseur	Finitore
Fire	Feu	Combustione
First	Premier	Primo
Fishtail	Queue de poisson / Cône	Coda di pesce
Fit	Emboîter / Monter	Montaggio
Fitting	Raccord	Montaggio
Fixing	Fixation	Rettifica
Flange	Bride	Flangia
Flap	Volet	Alettone
Flash	Flash	Flash
Flexible (Flexi)	Flexible	Flessibile (flexi)
Floor	Plancher	Pavimento
Floorplate	Plaque de sol	Base pavimento
Flow	Débit	Flusso
Fluid	Fluide	Fluidio

English	Français	Italiano
Flywheel	Volant	Volano
Foam	Mousse	Schiuma
Fog	Brouillard	Nebbia
Foot	Pied	Piede
Forward	Avant	Avanti
Frame	Bâti	Telaio
Front	Avant	Anteriore
Fuel	Carburant	Combustibile
Function	Fonction	Funzione
Fuse	Fusible	Fusibile
G		
Gain	Gain	Guadagno
Galvanised	Galvanisé	Zincato
Gantry	Portique	Cavalletto
Gas	Gaz	Gas
Gas Strut	Jambe à gaz	Puntone gas
Gasket	Garniture d'étanchéité	Guarnizione
Gauge	Manomètre	Calibro
Gauze	Gaze	Garza
Gear	Engrenage	Ingranaggio
Geared	A engrenages	Ingranato
Gearbox	Boîte de vitesses	Scatola del cambio
General	Général(e)	Generale
Glass	Verre	Vetro
Glow Plug	Bougie de préchauffage	Spina a incandescenza
Gobbler (Nozzle Tilt)	Gobbler (Inclinaison d' Embout)	Gobbler (Ugello Inclinazione)
Grab	Grappin	1. Estrattore a pinza (n)
Grease	Graisse	Grasso
Greaser	Graisneur	Ingrassatore
Green	vert	Verde
Grey	gris	Grigio
Grill	gril	Griglia
Grip	manche	1. Presa (n)
Grub Screw	vis sans tête	Vite di riferimento
Grommet	virole	Anello di tenuta
Guard	Carter de protection	Riparo
Guide	Guide	Guida
H		
Hand	Côté	Mano
Hand Primer	Pompe à main, dispositif de	Pompetta di adescamento a mano

English	Français	Italiano
Hand Wash	Lavage à main	Lavaggio a mano
Handbrake	Frein à main	Freno a mano
Handle	Poignée	Maniglia
Hanger	Suspension	Supporto pendente
Harness	Harnais	Cablaggio
Head	Tête	Testa
Headlamp	Phare	Faro
Heat	Chaleur	Calore
Heatshield	Bouclier thermique	Scudo termico
Heater	Chauffage	Riscaldatore
High Pressure	Haute pression	Alta pressione
Hi Tip	Bennage en hauteur	Punta alta
Hinge	Charnière	Cerniera
Hinged	Charnière, à	Incernierato
Holder	Porte-outil	Staffa di supporto
Hooks	Crochets	Ganci
Hopper	Trémie	Serbatoio con scarico sul fondo
Horn	Avertisseur sonore	Avvisatore acustico
Hose	Tuyau flexible	Tubo flessibile
Hose Tail	Tuyau flexible, bout de	Raccordo tubo flessibile
Hot	Chaud	Caldo
Hour Meter	Compteur horaire	Contaore
Housing	Logement	Alloggiamento
Hub	Manchon	Mozzo
Hydraulic	Hydraulique	Idraulico
Hydrant	Bouche d'incendie	Idrante
Hydrant Filler	Bouche d'incendie, disp. de remplissage	Filtro idrante
Hydrant Hose	Bouche d'incendie, tuyau souple	Tubo idrante
Hydrostatic	Hydrostatique	Idrostatico
/		
Identification	Identification	Identificazione
Idle	Inactif / Ralenti	Inattivo
Ignition (Ign)	Contact	Accensione (Acc)
Illuminated	Eclairé	Illuminato
Illustrated	Illustré	Illustrato
Illustration	Illustration	Illustrazione
Impellor	Rotor / Tirbine	Girante
Inclusive	Compris	Inclusivo
Information (Info)	Informations	Informazioni (Info)
In	Entré	Dentro
Inlet	Entrée	Ammissione

English	Français	Italiano
Inlet Cone	Entrée, cône d'	Cono di ammissione
Inlet Pipe	Entrée, tuyau d'	Tubo di ammissione
Injection Pump	Pompe d'injection	Pompa d'iniezione
Injector	Injecteur	Iniettore
Injector Pipe	Tuyau d'injection	Tubo iniettore
Input	Entrée	Ingresso
Inseal Strip	Bande d'étanchéité	Guarnizione sigillante
Insert	Insert	Inserto
Insertion	Insertion	Inserimento
Installation	Installation	Installazione
Instrument	Instrument	Strumento
Insulator	Isolateur	Isolante
Inter Cooler	Refroidisseur intermédiaire	Refrigeratore intermedio
Interior	Intérieur	Interno
Interim	Intérimaire	Interim
Internal	Interne	Interno
Item	Article	Articolo
J		
Jet	Jet	Getto
Joint	Joint	Giunto
Joystick	Joystick	Joystick
Jubilee Clip	Pince crocodile	Fermaglio Jubilee
Junction	Jonction	Incrocio
K		
Key	Clé	Chiave
Key Switch	Interrupteur à clé	Interruttore a chiavetta
Kerb	Bordure	Bordo (as in pavement)
King Pin	Axe-pivot	Perno di sterzaggio
King Post	Poinçon de faite	Puntone di sostegno
Kit	Kit	Corredo
Knob	Bouton	Manopola
L		
Label	Etiquette	
Lamp	Lampe	Lampada etichetta
Work Lamp	Lampe de travail	Lampada da lavoro
Head Lamp	Projecteur	Faro
Side Lamp	Lampe latérale	Luce di posizione
Lance	Lance	Lancia

English	Français	Italiano
Lap Joint	Joint à recouvrement	Giunto a sovrapposizione
Large	Grand	Grande
Latch	Verrou	Serratura
Lead	Fil	Cavo
L.E.D. (Light Emitting Diode)	Diode électroluminescente	LED (Diodo a emissione luminosa)
Leash	Laisse	Maglia
Left	Gauche	Sinistra
Left Hand Drive (LHD)	Conduite à gauche	Guida a sinistra (LHD)
Leg	Jambe	Gamba
Length	Longueur	Lunghezza
Lens	Objectif	Lente
Level	Niveau	Livello
Lever	Levier	Leva
Lid	Couvercle	Coperchio
Lift	Ascenseur	Sollevare
Lifting	Levage	Sollevamento
Light	Feux	Luce
Side Light	Feux latéraux	Luce di posizione
Head Light	Phare	Faro
Rear Light	Feu arrière	Fanale di coda
Brake Light	Feux stop	Luce freno
Interior Light	Eclairage intérieur	Luce abitacolo
Fog Light	Feu antibrouillard	Faro antinebbia
Linch Pin	Axe d'essieu	Acciarino
Lining	Revêtement	Rivestimento interno
Link	Maillon	Articolazione
Linkage	Tringlerie	Sistema di leve
Litre	Litre	Litro
List	Liste	Lista
Load	Charge	Carico
Located	Situé	Posizionato
Lock	Verrou	Fermo
Locknut	Ecrou de blocage	Controdado
Locker	Armoire	Armadietto
Locking	Verrouillage	Serraggio
Long	Long	Lungo
Loom	Métier	Cablaggio
Loop	Boucle	Circuito elettrico ad anello
Low Pressure	Basse pression	Bassa pressione
Lower	Baisser	Inferiore
Lubricant	Lubrifiant	Lubrificante
Lubrication	Lubrification	Lubrificazione

English	Français	Italiano
M		
Machine	Machine	Macchina
Magnet	Aimant	Magnete
Magnetic	Magnétique	Magnetico
Main	Principal(e)	Principale
Male	Mâle	Maschio
Management	Gestion	Gestione
Manifold	Collecteur	Collettore
Manual	Manuel	Manuale
Manufactured	Fabriqué	Fabbricato
Marker Lamp	Lampe signal	Lampada di segnalazione
Master	Maître	Principale
Master Cylinder	Maître-cylindre	Cilindro principale
Maximum (Max)	Maximum (maxi)	Massimo (max.)
Mesh	Tamis	Maglia
Metal	Métal	Metallo
Meter	Mètre	Calibro
Micro Switch	Micro-contact	Microinterruttore
Minimum (Min)	Minimum (mini)	Minimo (min.)
Mirror	Miroir	Specchio
Miscellaneous	Divers	Miscellanea
Modified	Modifié	Modificato
Module	Module	Modulo
Monitor	Moniteur	Monitor
Motor	Moteur	Motore
Mount	Monture	Montaggio
Mounted	Monté	Montato
Mounting	Châssis / Support	Montaggio
Mud Flaps	Bavettes de garde-boue	Paraspruzzi
Mud Guard	Garde-boue	Parafango
Muffler	Amortisseur	Marmitta
Multi Function	Multifonctions	Multifunzionale
N		
N/A (Not Applicable)	S/O (sans objet)	N/D (Non disponibile)
Narrow	Etroit	Stretto
Near side	Côté trottoir	Lato guida
Negative	Négatif	Negativo
Neutral	Neutre	Neutro
New	Nouveau (nouvelle)	Nuovo
Nipple	Manchon	Raccordo filettato

English	Français	Italiano
No	Non	N. (Numero)
Non Return	Anti-retour	Non ritorno
Normal	Normal	Normale
Note	Note	Nota
Nozzle	Embout / Buse	Ugello
Number	Numéro	Numero
Numerical	Numérique	Numerico
Nut	Ecrou	Dado
Nyloc Nut	Ecrou « Nyloc »	Dado Nyloc
Hex Nut	Ecrou hexagonal	Dado a testa esagonale
Plain Nut	Ecrou normal	Dado liscio
Self Locking Nut	Ecrou autobloquant	Dado autobloccante
Thin Nut	Ecrou mince	Dado sottile
Nylon Tube	Tube de nylon / Nylon, tube de	Tubo di nylon
O		
Obsolete	Périmé	Obsoleto
Off	Arrêt	1. Spento 2. Inattivo
Off Side	Côté route	Lato passeggero
Oil	Huile	Olio
Olive	Olive	Oliva
On	Marche	1. Acceso 2. Attivo
Open	Ouvrir	Aprire
Opened	Ouvert(e)	Aperto
Opening	Ouverture	Apertura
Operating	Fonctionnement, de	Operativo
Option	Option	Opzione
Optional	Optionnel(le)	Opzionale
Orange	Orange	Arancione
Original	Original	Originale
O Ring	Joint torique	Anello di tenuta toroidale
Out	Sorti(e)	1. Fuori 2. Esterno
Outer	Extérieur(e)	Esterno
Outlet	Sortie	Sbocco
Output	Production	Uscita
Overhead	Surélevé	in testa
Overload	Surcharge	Sovraccarico
P		
Packer	Garniture d'étanchéité	Imballatore
Panel	Panneau	Pannello
Part	Pièce	Ricambio

English	Français	Italiano
Pedal	Pédale	Pedale
Pick-up	Prendre / en lever	Ripresa
Pilot (pressure)	Pilote	Pilota
Pin	Cheville	Perno
Pinion	Pignon	Pignone
Pink	Rose	Rosa
Pipe	Tuyau	Tubo
Piping	Tuyauterie	Tubazione
Piston	Piston	Pistone
Pivot	Pivot	Perno di testa
Plastic	Plastique, matière	Plastica
Plate	Plaque	Piastra
Plinth	Plinthe	Base
Plug	Bouchon / Prise électrique	Spina
Point	Point	Punto
Poppet Valve	Soupape / Clapet	Valvola supporto verticale
Ports	Orifices	Porte
Position	Position	Posizione
Positioned	Positionné(e)	Posizionato
Post	Montant	Montante
Potentiometer	Potentiomètre	Potenzimetro
Power	Puissance	Potenza
Pneumatic (See Also Air)	Pneumatique	Pneumatico (vedi anche Aria)
Pressure	Pression	Pressione
Primer	Amorce / Apprêt	Innesco
Production	Production	Produzione
Prop	Support	Puntello
Propshaft	Arbre de transmission	Albero puntello
Pull	Tirer	Tirare
Pulley	Poulie	Puleggia
Pulsation	Pulsation	Pulsazione
Pulse	Impulsion	Polso
Pump	Pompe	Pompa
Purple	Violet	Porpora
Q		
Quick Release	Rapide, raccord	Disinnesco rapido
R		
Radiator (Rad)	Radiateur	Radiatore (rad)
Raise	Soulever	Sollevare
Raised	Soulevé(e)	Sollevato

English	Français	Italiano
Ram	Vérin	Pistone
Ratio	Rapport	Rapporto
Rear	Arrière	Retro
Red	Rouge	Rosso
Reducer	Réducteur	Riduttore
Reducing	Réduction, de	Riduzione
Reduction	Roue / Enrouleur	Riduzione
Reel	Bobine	Bobina
Refer	Voir	Riferimento
Refill	Remplir	Rabbocco
Regulator	Régulateur	Regolatore
Related	Relatif	Correlato
Relay	Relais	Relè
Release	Dégagement	Disinnesco
Relief Valve	Soupape de sûreté	Valvola di sfogo
Remote	A distance / Distance, à	Remoto
Repair	Réparation	Riparazione
Replacement	Remplacement	Sostituzione
Resister	Résistance	Resistore
Refill	Remplir	Rabbocco
Regulator	Régulateur	Regolatore
Related	Relatif	Correlato
Relay	Relais	Relè
Release	Dégagement	Disinnesco
Relief Valve	Soupape de sûreté	Valvola di sfogo
Remote	A distance / Distance, à	Remoto
Repair	Réparation	Riparazione
Replacement	Remplacement	Sostituzione
Resister	Résistance	Resistore
Restrictor	Restriction	Limitatore
Retainer	Retenue, dispositif de	Fermo
Retaining	Retenue, de	Sostegno
Return	Retour	Ritorno
Reverse	Inverse	Retromarcia
Reversing	Recul	Inversione di marcia
Right	Droite	Destra
Right Hand Drive (RHD)	Conduite à droite	Guida a destra
Rim	Jante	Bordo
Ring	Bague	Anello
Road	Route	Strada
Rod	Tige	Asta
Rolling	Roulant, de roulement	Rotolante

English	Français	Italiano
Rotary	Rotatif	Rotante
Rotate	Tourner	Ruotare
Rotating	Tournant	Rotante
Rotation	Rotation	Rotazione
Rubber	Caoutchouc	Gomma
S		
Safety	Sécurité	Sicurezza
Scraper	Racleur	Raschietto
Screen	Ecran	Schermo
Screw	Vis	Scheggia
Hex hd (hexagonal head)	Vis à tête 6 pans	Testa esagonale
skt hd (socket head)	Vis à tête creuse	Brugola
csk hd (counter-sunk head)	Vis à tête fraisée	Svasata
Seal	Garniture d'étanchéité	Chiusura ermetica
Sealant	Etanchéifiant	Materiale di tenuta
Sealing	Etanchéité, d'	Sigillante
Seat	Siège	Sedile
Securing	Fixation, de	Fissaggio
Selector Shaft	Levier de commande	Albero selettore
Self Tapping	Auto-taraudeur	Autofilettante
Sender	Expéditeur / Transmetteur	
Sensor	Capteur	Sensore
Separation	Séparation	Separazione
Serial	Série, de	Seriale
Service Exchange (S/EX)	Echange standard	Scambio di servizio
Set screw	Vis de calage	Vite di fermo
Shaft	Arbre	Albero
Shells	Calandres	Gusci
Shield	Ecran	Scudo
Shim	Cale	Zeppa
Shock Absorber	Amortisseur	Ammortizzatore
Shoe	Patin	Scarpa
Short	Court(e)	Ganascia
Shovel	Pelle	Pala
Side Access Door	Porte d'accès latéral	Sportello accesso laterale
Sight	Vue	Mirino
Silencer	Silencieux	Silenziatore
Silicon	Silicone	Silicone
Single	Simple	Singolo
Skirt	Jupe	Bordatura
Slate	Ardoise	Ardesia

English	Français	Italiano
Sleeve	Gaine	Manicotto
Slew	Pivoter	Ruotare
Slewing	Orientation	Rotazione
Sliding	Coulissant	Slittamento
Slotted	Fente, A	Sfinestrato
Small	Petit(e)	Piccolo
Socket	Prise	Presa
Solenoid	Solénoïde / Noyau	Solenoido
Spacer	Pièce d'espacement	distanziatore
Spare	Rechange, pièce de	ricambio
Speakers	Haut-parleurs	altoparlanti
Special	Spécial(e)	speciale
Speed	Vitesse	velocità
Spherical	Sphérique	sferico
Spigot	Goujon / Tube de jonction	zipolo
Spindle	Broche	mandrino
Splined	Cannelé	linguetta
Split Pin	Goupille fendue	coppiglia
Splitter	Répartiteur	diviso
Spray	Pulvérisateur	spray
Spring	Ressort	molla
Stabiliser	Stabilisateur	stabilizzatore
Stabilising	Stabilisation	stabilizzante
Stack	Pile	pila
Standard	Standard	standard
Standpipe	Colonne montante	colonna in aumento
Starter	Démarrreur	starter
Steel	Acier	acciaio
Steering	Direction	lo sterzo
Stem	Tige	Guarnizione
Stiffener	Raidisseur	rinforzo
Stop	Arrêt	fermare
Storage	Rangement	conservazione
Stowage	Arrimage	stivaggio
Straight	Droit(e)	dritto
Strap	Attache	cinghia
Strip	Bande	Cintura
Strut	Jambe	il supporto
Stub	Souche	mozzicone
Stud	Goujon fileté	il perno
Studded	Barrettes, A	costellato
Studding	Colombage	coltellaccio

English	Français	Italiano
Sub Frame	Faux-châssis	sottotelaio
Suction Fan	Turbine d'aspiration	turbina di aspirazione
Suction Nozzle	Buse d'aspiration	ugello di aspirazione
Sump	Carter	i carter
Supply	Fourniture	fornitura
Support	Support	supporto
Suppression	Suppression	repressione
Suspension	Suspension	sospensione
Sweep	Balayage	spazzare
Sweeping	Balayant, de balayage	Formatura a sagoma
Swing	Balancement	Oscillazione
Switch / Switches	Interrupteur / Interrupteurs	Interruttore / Interruttori
Swivel	Pivotant	Parte girevole
System	Système	Sistema
T		
Tab Washer	Rondelle à languettes	Rondella di sicurezza
Tachograph	Tachygraphe	Tachigrafo
Tachometer	Tachymètre	Tacometro
Tandem	Tandem	Tandem
Tank	Réservoir	Serbatoio
Tapered	Conique	Conico
Taper Lock	Verrou conique	Serratura conica
Tee Key	Clé à béquille	Chiave a T
Temperature (Temp)	Température (temp.)	Temperatura (Temp)
Template	Gabarit	Sagoma
Tensioner	Tendeur	Tensiometro
Terminal	Borne	Terminale
Test	Test	Test
Thermostat	Thermostat	Termostato
Thick	Epais	Spesso
Thimble	Dé	Bussola
Thin	Mince	Sottile
Throttle	Accélérateur	Farfalla
Thrust	Poussée	Spinta
Tie Rod	Tirant	Tirante
Tilt	Inclinaison	Inclinazione
Tilting	Inclinable	Inclinazione
Timer	Minuterie	Timer
Timing	Minutage	Temporizzazione
Toggle	Bascule	Ginocchiera
Tool	Outil	Attrezzo

English	Français	Italiano
Toolbox	Boîte à outils	Cassetta attrezzi
Toothed	Dentelé(e)	Dentato
Top	Dessus	Cima
Tow	Remorquer	Rimorchio
Tow Ball	Boule de remorquage	Sfera rimorchio
Tow Bar	Barre de remorquage	Barra rimorchio
Tow Point	Point de remorquage	Punto di rimorchio
Track Rod	Barre d'accouplement	Barra di accoppiamento
Trailer	Remorque	Rimorchio
Transfer Gearbox	Boîte de transfert intermédiaire	Scatola del cambio a trasferimento
Transmission	Transmission	Trasmissione
Travel	Course	Corsa
Trunking	Jonction	Circuito di collegamento
Trunnion	Tourillon	Perno di articolazione
Tube	Tube	Tubo
Tubing	Tubage	Tubazione
Turbocharger (Turbo)	Turbocompresseur	Turbocompressore
Twin	Jumelé	Gemello
Type	Type	Tipo
Typical	Typique	Tipico
Tyre	Pneu	Pneumatico
U		
Uncompressed	Non comprimé	Decompresso
Underside	Dessous	Disotto
Universal Joint (U/J)	Joint universel / Croisillon	Giunto universale
Union	Raccord	Unione
Unit	Unité	Unità
Un-Loader	Déchargeur	Scaricatore
Up	Dessus	Su
Update	Mise à jour	Aggiornamento
Usage	Utilisation	Utilizzo
V		
Valve	Vanne / Soupape	Valvola
Variant	Variante	Variante
Vehicle	Véhicule	Veicolo
Voltage	Tension	Voltaggio
W		
Wander Hose	Flexible aspirateur	Tubo flessibile mobile

English	Français	Italiano
Warning	Avertissement	Avvertenza
Washer	Rondelle	Rondella
Water	Eau	Acqua
Wear	Usure	Usura
Weed Ripper	Désherbage, dispositif de	Sarchiatore
Welded	Soudé	Saldato
Wheel	Roue	Ruota
White	Blanc(he)	Bianco
Wide Sweep	Balayage large	Curvatura larga
Windscreen	Pare-brise	Parabrezza
Wiper	Essuie-glace	Tergicristallo
Wires	Câblage	Fili
Wiring – black, blue, brown, green, grey, orange, pink, purple, red, white yellow	Câblage – noir, bleu, marron, vert, gris, orange, rose, violet, rouge, blanc jaune	Cablaggio Nero, Blu, Marrone, Verde, Grigio, Arancione, Rosa, Porpora, Rosso, Bianco Giallo
Work Light	Lampe de travail	
X		
Xenon	Xénon	Xenon
Y		
Yellow	Jaune	Giallo

English	Español	Svenska
A		
Access	Acceso	Tillgång
Accessories	Accesorios	Tillbehör
Accelerator	Acelerador	Gaspedal
Actuator	Accionador, servomotor	Aktiverare
Adaptor (adapt)	Adaptador (Adapt.)	Övergång
Adapter Flange	Brida del adaptador	Övergångsfläns
Adaptor Plate	Disco del adaptador	Övergångsplatta
Adaptor, Straight	Tramo recto del adaptador	Rak övergång
Adjuster	Regulador	Justeri
Adjuster Kit	Juego regulador	Justeringsatts
Adjuster Valve	Válvula del regulador	Ventiljustering
Adjustable	Ajustable	Justerbar
Aerial	Antena	Antenn
Air	Aire	Luft
Air Cleaner	Purificador de aire	Luftrenare
Air Conditioner	Aire acondicionado	Luftkonditionering
Air Cylinder	Cilindro de aire	Luftcylinder
Air Filter	Filtro de aire	Luftfilter
Air Manifold	Distribuidor de aire	Luftfördelare
Air Mass Meter	Medidor de masa de aire	Luftmätare
Air Feed	Inyector de aire	Luftförsörjning
Air Air Chute	Conducto neumático	Dränering
Air Outlet	Salida de aire	Överskottsluft
Air Muffler	Silenciador de aire	Luftljudsdämpare
Air Pressure Regulator	Regulador de presión del aire	Luftregulator
Air Ram	Aire a presión	Luftkolv
Air Valve	Válvula de aire	Luftventil
Air Vent Pipe	Tubería del sistema de ventilación	Luftventilsrör
Alternator	Alternador	Generator
Alternator Interface	Acoplamiento del alternador	Generatorfäste
Aluminium (Alum)	Aluminio (Alum.)	Aluminium
Anchor	Anclaje	Ankare
Angle	Ángulo	Vinkel
Antiluce Fastener	Elemento de sujeción "Anti-luce"	Låsbeslag(sidodörr)
Amendment (Amdt.)	Corrección (Correc.)	Rättelse/förbättring
Amplifier	Amplificador	Elektrisk förstärkare

English	Español	Svenska
Arrangement	Disposición	Arrangemang
Ashtray	Cenicero	Askkopp
Assembly (Assy)	Conjunto (Conj.)	Sätta ihop
Auto Blanking	Borrado automático	Automatisk stängning
Automatic	Automático	Automatisk
Auxiliary	Auxiliar	Extra
Axle	Eje	Axel
Axle Beam	Viga del eje	
Axle Bolt	Perno del eje	Axelbult
Axle Breather	Respiradero del eje	
Axle Carrier & Tube	Tubo y soporte del eje	
Axle Front	Frontal del eje	Framaxel
Axle Rear	Trasera del eje	Bakaxel
Axle Washer	Arandela del eje	Axelbricka
B		
Back Plate	Contraplato	Bakstycke
Bag	Bolsa	Säck
Ball	Bola	Kula
Ball End	Lado esférico	
Ball Joint	Rótula	
Ball Valve	Válvula de bola	Kulventil
Bar	Barra	Ramp
Basin	Vasija	Skål
Battery	Batería	Batteri
Battery Housing	Alojamiento de la batería	Batterikåpa
Battery Terminals	Bornes de la batería	Batteriterminal
Battery Lead	Cable de la batería	Batteribly
Battery Tray	Bandeja de la batería	Batteri platta
Beacon	Faro	Varningsljus
Beacon Bar	Barra del faro	Takramp varningsljus
Beam	Haz	Strålkastare
Bearing	Cojinete	Lager
Bell Housing	Carcasa del embrague	Svänghjulsåpa
Bellows	Fuelle	Bälg
Belt	Correa	Remm
Black	Negro	Svart
Blanking	Borrado	Stängning
Beeper	Emisor de tonos	Backvanare
Blind Rivet	Remache ciego	Popnit
Block	Bloque	Stänga/sätta igen
Blue	Azul	Blå

English	Español	Svenska
Board	Tablero	Skiva
Body	Cuerpo	Kropp
Bolt	Perno	Bult
hex hd (hexagonal head)	cab. hexag. (cabeza hexagonal)	Bult (sexkanthuvud)
skt hd (socket head)	cab. hueca (cabeza hueca)	Bult försänkt huvud
csk hd (counter-sunk head)	cab. avell. (cabeza avellanada)	
Boom	Brazo	Bom
Boost	Empujar	Högeffekt
Bore	Calibre	Borra
Boss	Refuerzo	Knopp
Bottom	Inferior	Nertill
Bottle	Botella	Flaska
Box	Cuadro	Låda
Brace	Abrazadera	Band
Bracket (Brkt)	Soporte (Sop.)	Konsoll
Brake	Freno	Broms
Brass Wing Nut	Tuerca de mariposa de latón	Mässingsvingmutter
Breather	Respiradero	Luftare
Broom	Escobilla	Kvast
Brown	Marrón	Brun
Brush	Escobilla	Borste
Base	Base	Bas
Buffer	Amortiguador	Dämpare
Build	Construir	Bygga
Bulb	Bombilla	Lampa
Bulkhead	Mampara	Skott (i tank)
Bumper	Parachoques	Kofångare
Bump Stop	Tope	Underkörningsskydd
Bungee Cord	Cuerda elástica	
Bush	Casquillo	Bussning
Buzzer	Zumbador	Summer
Button	Botón	Knapp
C		
Cab	Cabina	Hytt
Cable	Cable	Wire
Caliper	Calibrador	
Cam Shaft	Árbol de levas	Kamaxel
Camera	Cámara	Kamera
Canopy	Cúpula	Kanape
Cap	Tapa	Kåpa
Capping	Cubierta	

English	Español	Svenska
Carabiner	Mosquetón	Karbidhake
Carrier	Soporte	Bärare
Case	Caja	Fall
Casing	Carcasa	Hölje
Catalogue	Catálogo	Katalog
Catch	Fiador	Fånga
Caution	Precaución	Varning
Centre	Centro	Mitten
Chain	Cadena	Kedja
Chassis	Chasis	Chassie
Check	Control	Kontrollera
Check Valve	Válvula de retención	Kontrollventil
Chute	Conducto	Dränering
Circlip	Resorte circular	Buntband
Circuit	Circuito	Strömkrets
Clamp	Grapa	Klämma
Cleaner	Limpiador	Rengörare
Clevis	Horquilla	
Clip	Pinza	Klämma
Clutch	Embrague	Koppling
Coach	Carrocería	Kaross
Coil	Bobina	Spole
Collar	Casquillo	Krage
Complete	Completo	Slutföra
Components	Componentes	Komponent
Compressor	Compresor	Kompressor
Cone	Cono	Konisk
Connector	Conector	Kontaktor
Connecting	Conexión en curso	Ansluta
Connection	Conexión	Anslutning
Con Rod (Connecting Rod)	Biela (Biela)	
Continued (Cont.)	Continuación (Cont.)	Fortsatt
Control (Cntrl)	Control (Cont.)	Kontroll
Controller	Controlador	Kontrollant
Conventional	Convencional	Vanlig
Conversion (Conv)	Conversión (Conv.)	Omställning
Cooler	Refrigerador	Kylare
Cooling	Refrigeración	Kylning
Copper	Cobre	Koppar
Core	Núcleo	Stomme
Cotter	Chaveta	Sprint/kil
Coupling	Acoplamiento	Koppling

English	Español	Svenska
Cover	Cubierta	Skydd
Cowling	Capó	
Crank-case	Cárter	Vevhus
Cranked	Acodado	Krökt
Cross Member	Travesaño	Tvärstag
Crown Wheel	Corona dentada	Kronhjul
Curb	Borde	Kansten
Cylinder	Cilindro	Cylinder
D		
Damper	Amortiguador	Dämpare
Deflector	Deflector	Riktare
Description	Descripción	Beskrivning
Details	Detalles	Detaljer
Detergent	Detergente	Rengöring
Diagram	Diagrama	Diagram
Dial	Cuadrante	Ring
Diaphragm	Diafragma	Diafragma
Diode	Diodo	Diod
Dipped Beam	Luz de cruce	Halvljus
Dipstick	Varilla de nivel de aceite	Olje/mätsticka
Dipstick guide	Guía de la varilla de nivel de aceite	Markering oljesticka
Dipstick tube	Tubo de la varilla de nivel de aceite	Rör oljesticka
Directional	Direccional	Riktningsvisare
Dirt	Suciedad	Smutts
Disc/Disk	Disco	Lamell
Display	Pantalla	Skärm
Distributor	Distribuidor	Distributör
Diverter	Desviador de flujo	Omvändare
Door	Puerta	Dörr
Double	Doble	Dubbel
Dowel	Espiga	Plugg/tapp
Down	Abajo	Ner
Dowty Seal	Junta "Dowty"	
Drag Link Tube	Biela de arrastre	
Drain Plug	Tapón de drenaje	Dräneringsplug
Drive	Transmisión	Köra
Drive Core	Núcleo de la transmisión	Drivaxel
Drive Coupling	Acoplamiento de la transmisión	Drivkoppling
Drive Dog	Retén de la transmisión	
Drive Flange	Brida de la transmisión	Drivfläns

English	Español	Svenska
Drive Motor	Motor de la transmisión	Drivmotor
Drive Pump	Bomba de la transmisión	Drivpump
Drive Shaft	Eje de la transmisión	Drivaxel
Drive Tube	Tubo de la transmisión	
Dual Sweep	Doble barrido	Dubbelsug
Dump Valve	Válvula de descarga	Övertrycksventil
Dust	Polvo	Damm
E		
Earth, electrical (Ground)	Tierra	Jord
Eccentric	Excéntrico	Eccentrix
Elbow	Codo	Vinkel
Electric	Eléctrico	Elektrisk
Electrical	Eléctrico	Elektriska
Element	Elemento	Beståndsdel
Enclosure	Caja	Omgivet
End	Extremo	Slut
End Plate	Placa de tope	Skyddsplatta
End Cap	Tapa de extremo	Skyddskåpa
Engine	Motor	Motor
Exchange	Intercambio	Växla
Exhaust	Escape	Avgaser
Exhaust Gas Recirculation (EGR)	Recirculación de los gases de escape (EGR)	Avgasventil (EGR)
Expansion	Expansión	Expantion
Extended	Extendido	Förlängd
Extension	Extensión	Förlängning
Extinguisher	Extintor	Förlängare
F		
Fan	Ventilador	Fläkt
Fastener	Sujeción	Fäste
Feed	Alimentación	Försörjning
Female	Hembra	Kvinna
Filler	Embudo	Filler
Filter	Filtro	Filter
Finisher	Unidad de acabado	Avslutare
Fire	Fuego	Eld
First	Primero	Första
Fishtail	Cola de pez	fiskstjärt
Fit	Acoplar	Passa
Fitting	Conector	Montering/installation

English	Español	Svenska
Fixing	Fijación	Laga
Flange	Brida	Fläns
Flap	Aleta	Dörr / öppning
Flash	Centelleo	Blixt
Flexible (Flexi)	Flexible (Flex.)	Flexibel
Floor	Piso	Golv
Floorplate	Placa de piso	Golvplatta
Flow	Flujo	Flöde
Fluid	Líquido	Vätska
Flywheel	Volante	Stödhjul
Foam	Espuma	Skumm
Fog	Niebla	Dimma
Foot	Pie	Fot
Forward	Directa	Framåt
Frame	Bastidor	Ram
Front	Delantero	Fram
Fuel	Combustible	Drivmedel
Function	Función	Funktion
Fuse	Fusible	Säkring
G		
Gain	Ganancia	Vinna
Galvanised	Galvanizado	Galvaniserad
Gantry	Pórtico	Brygga/ställning
Gas	Gas	Gas
Gas Strut	Montante de gas	
Gasket	Junta	Packning
Gauge	Indicador	Tryckmätare
Gauze	Tela metálica	Flor(gasbinda)
Gear	Engranaje	Växel
Geared	Accionado por engranaje	Växlad
Gearbox	Caja de cambios	Växellåda
General	General	I allmänhet
Glass	Vidrio	Glas
Glow Plug	Bujía incandescente	Glödstift
Gobbler (Nozzle Tilt)	"Gobbler"	Tilt (sugbox)
Grab	Gancho	Fånga
Grease	Grasa	Smörja
Greaser	Engrasador	Fett
Green	Verde	Grön
Grey	Gris	Grå
Grill	Rejilla	Grill
Grip	Mango	Grepp

English	Español	Svenska
Grub Screw	Tornillo de presión	Avdragare
Grommet	Arandela	genomföring
Guard	Protección	Skydd
Guide	Guía	Guide
H		
Handbrake	Freno de mano	Handbroms
Hand	Manual, a mano	Hand
Hand Primer	Bomba de mano	Handcreme
Hand Wash	Lavado a mano	Handtvätt
Handle	Asa	Handtag/vred
Hanger	Soporte colgante	Hängare
Harness	Mazo de cables	Sele
Head	Cabeza	Huvud
Headlamp	Faro	Strålkastare
Heat	Calor	Värme
Heatshield	Pantalla térmica	Värmeplåt
Heater	Calentador	Värmare
High Pressure	Alta presión	Högtryck
Hi Tip	Punta alta	Högtippande
Hinge	Bisagra	Gångjärn
Hinged	Articulado	Gångjärns hängd
Holder	Portaherramientas	Hållare
Hooks	Ganchos	Krokar
Hopper	Tolva	Behållare
Horn	Claxon	Signalhorn
Hose	Tubo flexible	Slang
Hose Tail	Extremo de tubo flexible	Slangände
Hot	Caliente	Varm
Hour Meter	Cronómetro	Timräknare
Housing	Carcasa	Kåpa/skydd
Hub	Cubo	Centrum
Hydraulic	Hidráulico	Hydraulisk
Hydrant	Boca de riego	Brandpost
Hydrant Filler		Brandpost huvud
Hydrant Hose	Tubo flexible de la boca de riego	Brandpostslang
Hydrostatic	Hidrostático	Hydrostatisk
I		
Identification	Identificación	Identifiering
Idle	Ralentí	Idealisk
Ignition (Ign)	Encendido (Enc.)	Tändning

English	Español	Svenska
Illuminated	Encendido	Eliminerad
Illustrated	Ilustrado	Illustrerad
Illustration	Ilustración	Illustration
Impeller	Propulsor	Impeller
Inclusive	Inclusivo	Inklusive
Information (Info)	Información (Info.)	Information
In	Dentro, entrada	In
Inlet	Admisión	Insläpp
Inlet Cone	Núcleo de admisión	Insläppskona
Inlet Pipe	Tubo de admisión	Insläppsrör
Injection Pump	Bomba de inyección	Injektionspump
Injector	Inyector	Injektor
Injector Pipe	Tubo del inyector	Injektorrör
Input	Entrada	Ingående
Inseal Strip	Banda de estanqueidad	
Insert	Insertar	Lägga till
Insertion	Inserción	Insättande/tillägg
Installation	Instalación	Installation
Instrument	Instrumento	Instrument
Insulator	Aislante	Isolerare
Inter Cooler	Refrigerador intermedio	Laddluftkylare
Interior	Interior	Inredning
Interim	Intermedio	Interim
Internal	Interno	Invändig
Item	Elemento	Punkt/artikel
J		
Jet	Chorro, inyector	Jet
Joint	Articulación	Punkt
Joystick	Palanca de control	Joystick
Jubilee Clip	Pinza "Jubilee"	Slangklämma
Junction	Unión	Korsning
K		
Key	Tecla	Nyckel
Key Switch	Interruptor de llave, llave de contacto	Tändningslås
Kerb	Borde	Kantsten
King Pin	Pivote central	
King Post	Palo macho	
Kit	Juego	Satts
Knob	Mando	Knopp

English	Español	Svenska
L		
label	Etiqueta	Etikett
Lamp	Lámpara	Lampa
Work Lamp	Lámpara de trabajo	Arbetsljus
Head Lamp	Lámpara de cabeza	Strålkastare
Side Lamp	Lámpara lateral	Positionsljus
Lance	Lanza	Munstycke
Lap Joint	Articulación de solape	Fogpunkt
Large	Grande	Stor
Latch	Pestillo	Regla/stänga
Lead	Plomo, avance	Bly
L.E.D. (Light Emitting Diode)	LED (diodo emisor de luz)	L.E.D diod
Leash	Correa	Remm
Left	Izquierda	Vänster
Left Hand Drive (LHD)	Conducción por la izquierda (LHD)	Vänsterstyrning
Leg	Pata	Ben
Length	Longitud	Längd
Lens	Lentes	Glas
Level	Nivel	Nivå
Lever	Palanca	Spak/hävstång
Lid	Tapa	Lock
Lift	Levantar	Lyfta
Lifting	Levantamiento	Lyfter
Light	Luz	Ljus
Side Light	Luz lateral	Sidoljus
Head Light	Faro	Strålkastare
Rear Light	Luz trasera	Bakljus
Brake Light	Luz de freno	Bromsljus
Interior Light	Luz interior	Innebelysning
Fog Light	Luz antiniebla	Dimmljus
Linch Pin	Pasador con anilla abatible	
Lining	Revestimiento interior	Bromsbelägg/beklädnad
Link	Articulación	Länk
Linkage	Varillaje de mando	Länksystem
Litre	Litro	Liter
List	Lista	List
Load	Carga, cargar	Lasta
Located	Situado	Placerad
Lock	Cierre, bloqueo	Lås
Locknut	Contratuerca	Läsmutter

English	Español	Svenska
Locker	Taquilla	Skåp
Locking	Cierre	Låsa
Long	Largo	Lång
Loom	Cableado eléctrico	Hölje
Loop	Bucle	Förbinda
Low Pressure	Baja presión	Lågtryck
Lower	Inferior, bajar	Sänka
Lubricant	Lubricante	Smörjmedel
Lubrication	Lubricación	Smörjning
M		
Machine	Máquina	Maskin
Magnet	Imán	Magnet
Magnetic	Magnético	Magnetisk
Main	Principal	Huvud
Male	Macho	Man
Management	Gestión	Skötsel
Manifold	Distribuidor	Fördelare
Manual	Manual	Manual
Manufactured	Fabricado	Tillverkad
Marker Lamp	Luz de señalización	
Master	Principal	Huvud
Master Cylinder	Cilindro maestro	Huvudcylinder
Maximum (Max)	Máximo (Máx.)	Maximum
Mesh	Malla	Galler
Metal	Metal	Metall
Meter	Metro	Meter
Micro Switch	Microinterruptor	Mikrobrytare
Minimum (Min)	Mínimo (Mín.)	Minimum
Mirror	Espejo	Spegel
Miscellaneous	Varios	Ungefärlig
Modified	Modificado	Modifierad
Module	Módulo	Modul
Monitor	Monitor, controlar	Skärm
Motor	Motor	Motor
Mount	Montura	Montera
Mounted	Montado	Monterad
Mounting	Instalación, soporte	Montera
Mud Flaps	Aleta guardabarros	Stänkskydd
Mud Guard	Guardabarros	Stänkskärm
Muffler	Silenciador	Ljuddämpare
Multi Function	Multifunción, multiuso	Flerfunktion

English	Español	Svenska
N		
N/A (Not Applicable)		
Narrow	Estrecho	Nära
Near side	Lado izquierdo	Nära sidan
Negative	Negativo	Negativ
Neutral	Neutral, punto muerto	Neutral
New	Nuevo	Ny
Nipple	Manguito	Nippel
No. (Number)	Número	Nummer
Non Return	Sin retorno	Ingen återvändo
Normal	Normal	Normal
Note	Nota	Not
Nozzle	Boquilla	Munstycke
Number	Número	Nummer
Numerical	Numérico	Numrerad
Nut	Tuerca	Mutter
Nyloc Nut	Tuerca "Nyloc"	Nylocmutter
Hex Nut	Tuerca hexagonal	Mutter sexkant
Plain Nut	Tuerca lisa	Plan mutter
Self Locking Nut	Tuerca autoblocante	Låsmutter
Thin Nut	Tuerca fina	Mutter (tunn)
Nylon Tube	Tubo de nilón	Nylonslang
O		
Obsolete	Obsoleto	Föråldrad
Off	Apagado	Av
Off Side	Lado derecho	Vid sidan av
Oil	Aceite	Olja
Olive	Oliva	Oliv
On	Encendido	På
Open	Abrir	Öppen
Opened	Abierto	Öppnad
Opening	Apertura, abertura	Öppning
Operating	Funcionamiento	Köra
Option	Opción	Tillbehör
Optional	Opcional	Valfri/frivillig
Orange	Naranja	Orange
Original	Original	Orginal
O Ring	Junta tórica	O ring
Out (Extended)	Fuera	
Outer	Exterior	Yttre

English	Español	Svenska
Outlet	Salida	Överskott
Output	Producción	Utkommande
Overhead	En cabeza	Över huvudet
Overload	Sobrecarga	Överlasta
P		
Packer	Tapón estanco	Packare
Panel	Panel	Panel
Part	Pieza	Del
Pedal	Pedal	Pedal
Pick-up (sensor)	Elegir	Sensor
Pilot (pressure)	Piloto	Pilot (tryck)
Pin	Pasador	Pinne
Pinion	Piñón	Pinjong
Pink	Rosa	Rosa
Pipe	Tubo (rígido)	Rör
Piping	Tubería	Rördragning
Piston	Pistón	Kolv
Pivot	Pivote	Styrtapp
Plastic	Plástico	Plast
Plate	Disco, placa	Tallrik
Plinth	Base	Plint
Plug	Enchufe, tapón	Plugg
Point	Punto	Punkt
Poppet Valve	Válvula de resorte	
Ports	Puertos	Port/öppning
Position	Posición	Position
Positioned	Colocado	Placerad
Post	Poste, borna	Stolpe/stötta
Potentiometer	Potenciómetro	Potensiometer
Power	Potencia	Ström
Pneumatic (See Also Air)	Neumático (véase también Aire)	Pneumatisk
Pressure	Presión	Tryck
Primer	Cebador	Primer
Production	Producción	Produktion
Prop	Apoyo	Stöd/palla under
Propshaft	Árbol de transmisión	Kardanaxel
Pull	Tirar, tracción	Drag
Pulley	Polea	Remskiva
Pulsation	Pulsación	Pulserande
Pulse	Pulso	Puls
Pump	Bomba	Pump

English	Español	Svenska
Purple	Púrpura	Lila
Push	Empujar, empuje	Tryck
Q		
Quick Release	Suelta rápida	Snabbkoppling
R		
Radiator (Rad)	Radiador (Rad.)	Kylare
Raise	Levantar	Lyfta
Raised	Levantado	Lyft
Ram	Pistón	Kolv
Ratio	Relación	Radie
Rear	Trasero	Bak
Red	Rojo	Röd
Reducer	Reductor	Reducerare
Reducing	Reducción, reduciendo	Reducera
Reduction	Reducción	Reducering
Reel	Carrete	Hjul
Refer	Ver	Referera
Refill	Rellenar	Återfylla
Regulator	Regulador	Regulator
Related	Relacionado	Besläktad
Relay	Relé	Relä
Release	Liberación	Lösgöra
Relief Valve	Válvula de descarga	Övertrycksventil
Remote	Remoto	Mottagare
Repair	Reparar	Reparera
Replacement	Sustitución	Ersätta
Resister	Registrar, registro	Motstånd
Restrictor	Estrangulador	Strypning
Retainer	Fiador	Förskottshyra
Retaining	Retención	
Return	Retorno	Återvända
Reverse	Inverso	Backa
Reversing	Inversión	Backa
Right	Derecha	Höger
Right Hand Drive (RHD)	Conducción por la derecha (RHD)	Högerstyrd
Rim	Llanta	Kant/fals
Ring	Anillo	Ring
Road	Carretera	Väg
Rod	Varilla	Rulle

English	Español	Svenska
Rolling	Rodamiento	Rullande
Rotary	Giratorio, rotativo	Roterande
Rotate	Girar	Rotera
Rotating	Giratorio, rotativo	Rotera
Rotation	Giro	Rotation
Rubber	Goma	Gummi
S		
Safety	Seguridad	Säkerhet
Scraper	Escariador	Skrapa
Screen	Filtro, pantalla	Galler
Screw	Tornillo	Skruv
csk hd (counter-sunk head)	Cab. avell. (cabeza avellanada)	
Hex hd (hexagonal head)	Cab. hexag. (cabeza hexagonal)	Skruv sexkant
skt hd (socket head)	Cab. hueca (cabeza hueca)	Skruv (fösänkt)
Seal	Junta	Tätning
Sealant	Sellante	Flytande tätningmedel
Sealing	Sellado	Täta
Seat	Asiento	Säte
Securing	Fijación	Säkra
Selector Shaft	Eje selector	Väljaraxel
Self Tapping	Aterrajado automático	Självdränkande
Sender	Conmutador selector	Sändare
Sensor	Sensor	Sensor
Separation	Separación	Separerat
Serial	Serie	Serie
Service Exchange (S/EX)	Intercambio de servicio	Utbytesdel
Setscrew	Tornillo de fijación	Sättskruv
Shaft	Eje	Skaft
Shells	Cuerpos	Snäckor
Shield	Protector	Skjöld
Shim	Suplemento	Shims
Shock Absorber	Amortiguador	Stötdämpare
Shoe	Zapata	Sko
Short	Corto	Kort
Shovel	Pala	Skyffel
Side Access Door	Puerta de acceso lateral	Sidodörr
Sight	Vista	Sikt
Silencer	Silenciador	Ljuddämpare
Silicon	Silicona	Silikon
Single	Único, sencillo	Enkel

English	Español	Svenska
Skirt	Faldón	Kjol
Slate	Pizarra	
Sleeve	Manguito	Muff
Slew	Pivotar	Svänga/slira
Slewing	Pivotaje	Svängande/slirande
Sliding	Deslizamiento	Glidande
Slotted	Ranurado	Spräckt
Small	Pequeño	Liten
Socket	Casquillo	Socket
Solenoid	Solenoid	Solenoid
Spacer	Separador	Distans
Spare	Repuesto	Reserv
Speakers	Altavoces	Högtalare
Special	Especial	Special
Speed	Velocidad	Fart
Spherical	Esférico	Klotformig
Spigot	Espiga	Rör
Spindle	Husillo	Spindel
Splined	Acanalado	Flisad/splittrad
Splinter	Partícula	Skärva/splitter
Split Pin	Chaveta hendida	Låspinne
Splitter	Separador	Fördelare
Spray	Pulverizador, rociador	Spaya
Spring	Muelle	Fjäder
Stabiliser	Estabilizador	Stabiliserare
Stabilising	Estabilización	Stabilisera
Stack	Pila	Fullpropad med
Standard	Estándar	Standard
Standpipe	Tubo vertical	Vattenpost
Starter	Motor de arranque	Startmotor
Steel	Acero	Stål
Steering	Dirección	Styrning
Stem	Vástago	Stoppa
Stiffener	Contrafuerte, larguero	Förtjockare
Stop	Parar	Stopp
Storage	Almacenamiento	Lagra
Stowage	Estiba	Stuvningsutrymme
Straight	Recto	Rakt
Strap	Tira de sujeción	Sätta fast
Strip	Banda	Ta bort
Strut	Puntal	Balk/stötta
Stub	Tope	Stump/talong

English	Español	Svenska
Stud	Espárrago	
Studded	Con pasador	
Studding	Pasante	
Sub Frame	Bastidor auxiliar	Underram
Suction Box	Caja de succión	
Suction Fan	Ventilador de succión	Sugfläkt(turbin)
Suction Nozzle	Boquilla de succión	Sugmunstycke
Sump	Sumidero	Oljetråg
Supply	Suministro	Förse
Support	Asistencia, soporte	Stödja
Suppression	Supresión	Undertryck
Suspension	Suspensión	Fjädring
Sweep	Barrido	Sopa
Sweeping	Barrido, barriendo	Sopa
Swing	Oscilación	Svänga
Switch	Interruptor	Brytare
Switches	Interruptores	Brytare
Swivel	Giratorio	Svängbar
System	Sistema	System
T		
Tab Washer	Arandela con lengüeta	
Tachograph	Tacógrafo	Färdskrivare
Tachometer	Tacómetro	Hastighetsmätare
Tandem	Tándem	Tandem
Tank	Tanque	Tank
Tapered	Cónico	Avsmalnande
Taper Lock	Cierre cónico	Plugg
Tee Key	Llave en T	Gren
Temperature (Temp)	Temperatura (Temp.)	Tempratur
Template	Plantilla	Mall
Tensioner	Tensor	Sträckare
Terminal	Terminal	Terminal
Test	Prueba	Test
Thermostat	Termostato	Termostat
Thick	Espeso	Tjock
Thimble	Dedal	Fingerborg
Thin	Delgado	Smal
Throttle	Regulador de gases	Trottel
Thrust	Empuje	Tryck
Tie Rod	Barra de acoplamiento transversal de la dirección	

English	Español	Svenska
Tilt	Inclinar	Tilt
Tilting	Inclinación	Tilta
Timer	Temporizador	Timer
Timing	Sincronización	Tids anpassa
Toggle	Báscula	Vippa
Tool	Herramienta	Verktyg
Toolbox	Caja de herramientas	Verktygslåda
Toothed	Dentado	Signalhorn
Top	Superior	Topp
Tow	Remolque	Dra / bogsera
Tow Ball	Bola de remolque	Dragkula
Tow Bar	Barra de remolque	Dragkrok
Tow Point	Punto de remolque	Dragpunkt
Track Rod	Tirante transversal	
Trailer	Remolque	Släp
Transfer Gearbox	Caja de cambios transferencia, caja transfer	Tillsattsväxellåda
Transmission	Transmisión	Transmission
Travel	Recorrido, viaje	Resa
Trunking	Unión	
Trunnion	Muñón	
Tube	Tubo	Rör
Tubing	Sistema de tuberías	Rördragning
Turbocharger (Turbo)	Turbocompresor (Turbo)	Turbo
Twin	Gemelo, bimotor	Dubbel
Type	Tipo	Typ
Typical	Típico	Typisk
Tyre	Neumático	Däck
U		
Uncompressed	No comprimido	Okomprimerad
Underside	Inferior	Undersida
Universal Joint (U/J)	Junta cardánica (U/J)	Knutkors
Union	Unión	Förena
Unit	Unidad	Del
Un-Loader	Descargador	Avlastning
Up	Arriba	Upp
Update	Actualizar	Uppdatera
Usage	Uso	Andvändning
V		
Valve	Válvula	Ventil

English	Español	Svenska
Variant	Variante	Variant
Vehicle	Vehículo	Fordon
Voltage	Tensión	Volt
W		
Wander Hose	Tubo flexible móvil	Sugslang (lövsug)
Warning	Advertencia	Varning
Washer	Arandela	Bricka
Water	Agua	Vatten
Wear	Desgaste	Slitage
Weed Ripper	Escardador	Ogräs
Welded	Soldado	Svetsad
Wheel	Rueda	Hjul
White	Blanco	Vit
Wide Sweep	Barrido amplio	Vals
Windscreen	Parabrisas	Vindruta
Wiper	Limpiaparabrisas	Torkare
Wires	Cables	Ledningar
Wiring	Cableado	Ledningsdragning
Black, Blue, Brown, Green, Grey, Orange, Pink, Purple, Red, White Yellow	Negro, Azul, Marrón, Verde, Gris, Naranja, Rosa, Púrpura, Rojo, Blanco Amarillo	Svart Blå Brun Grön Grå Orange Rosa Lila Röd Vit Gul
Work Light	Lámpara de trabajo	Arbetsljus
X		
Xenon	Xenón	Xenon
Y		
Yellow	Amarillo	Gul
Yoke	Horquilla	Sammankoppla

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