



M65T SKID MOUNTED ROAD SWEEPER PARTS BOOK



M65T Parts Book

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Important Notice To Users

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.

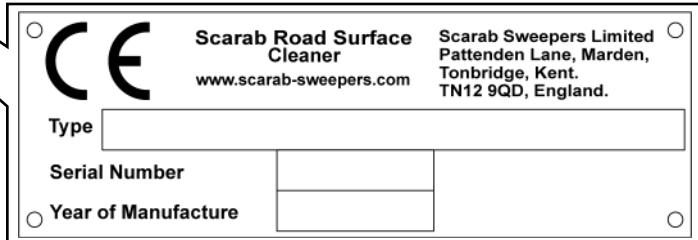
Parts depicted or mentioned in this manual may or may not be fitted to your particular road sweeper due to various options that may or may not have been selected and does not therefore infer that the part should be fitted to your particular road sweeper or is missing. If in doubt then please contact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

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.



i The Serial Number Plate is located on the left hand side of the subframe, below the hydraulics cabinet door.

The example shown here is for guidance only.



This information MUST accompany EVERY parts order to help ensure that the correct parts are supplied.

Introduction

This parts book 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 following lists the item, its part number, quantity and description and a page number (¶) if this part is cross-referenced elsewhere in his manual. See Figure 1.

Item	Part No	Qty	Description	¶
①	037734	1	Bearing plate central brush (wide sweep)	53
②	038287	1	Central brush (wide sweep) bearing	
③	043059	1	Grease nipple M6 straight	
④	041527	1	Central brush (wide sweep) drive tube single sweep	58

Figure 1: Example of an parts in an assembly

Item Numbers (Item)

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 or not illustrated, then the item number will be listed as not illustrated:- NI.

Part Numbers (Part No)

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.

If a part number is marked as TBC then this means **to be confirmed**. Please contact Scarab Part Department.

Quantities (Qty)

When a parts quantity has been marked with As Req 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.

Description

A brief description of the part to further help with identification.

Page (¶)

Use the number in this column to go to that page to get more information regarding this item/part.

PDF Version

Includes bookmarks to each chapter and links to other sections from components that are also referenced elsewhere to make navigation throughout the manual easier. For example click a number in the Page (¶) column and it will take you to that page, or click an item in the table of contents to be taken to that page.

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 the auxiliary engine fitted in the Scarab Sweeper 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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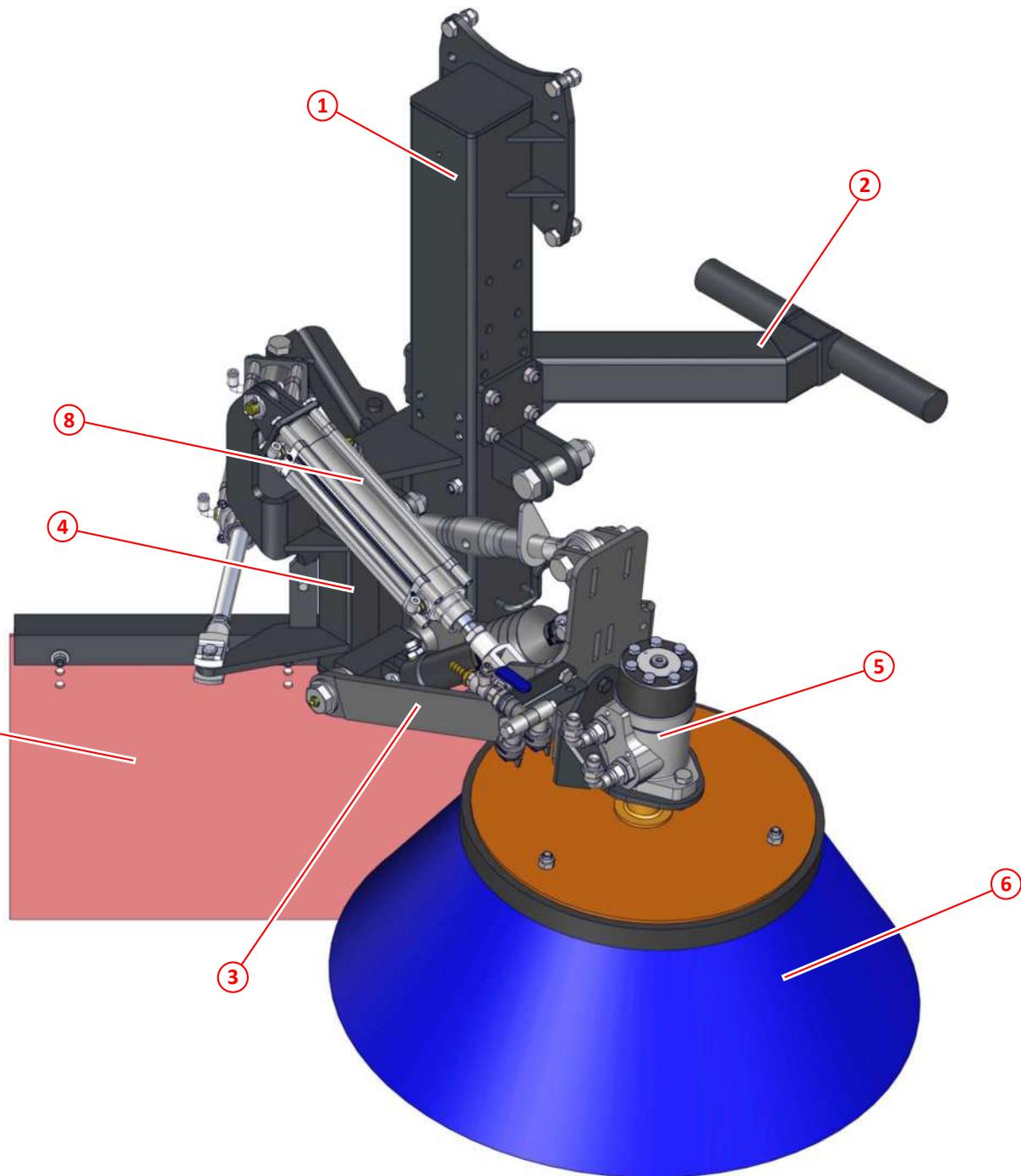
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Sweeping

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Left hand leg and side brush arrangement



i Shown with brush pressure option.

Figure 2: Left hand leg and side brush arrangement

Item	Part No	Qty	Description	
①	034265	1	Left hand leg	27
②	034334	1	Left hand central brush (wide sweep) adjustable mount	27,28
③			Left hand side brush raise/lower assembly	33
④			Left hand side brush king post, swing in/out arrangement	32
⑤			Side brush motor assembly	275
⑥			Side brushes	44
⑦			Front skirt, side brush	30
⑧			Side brush pressure cylinder (option)	311

Left hand leg and central brush mount

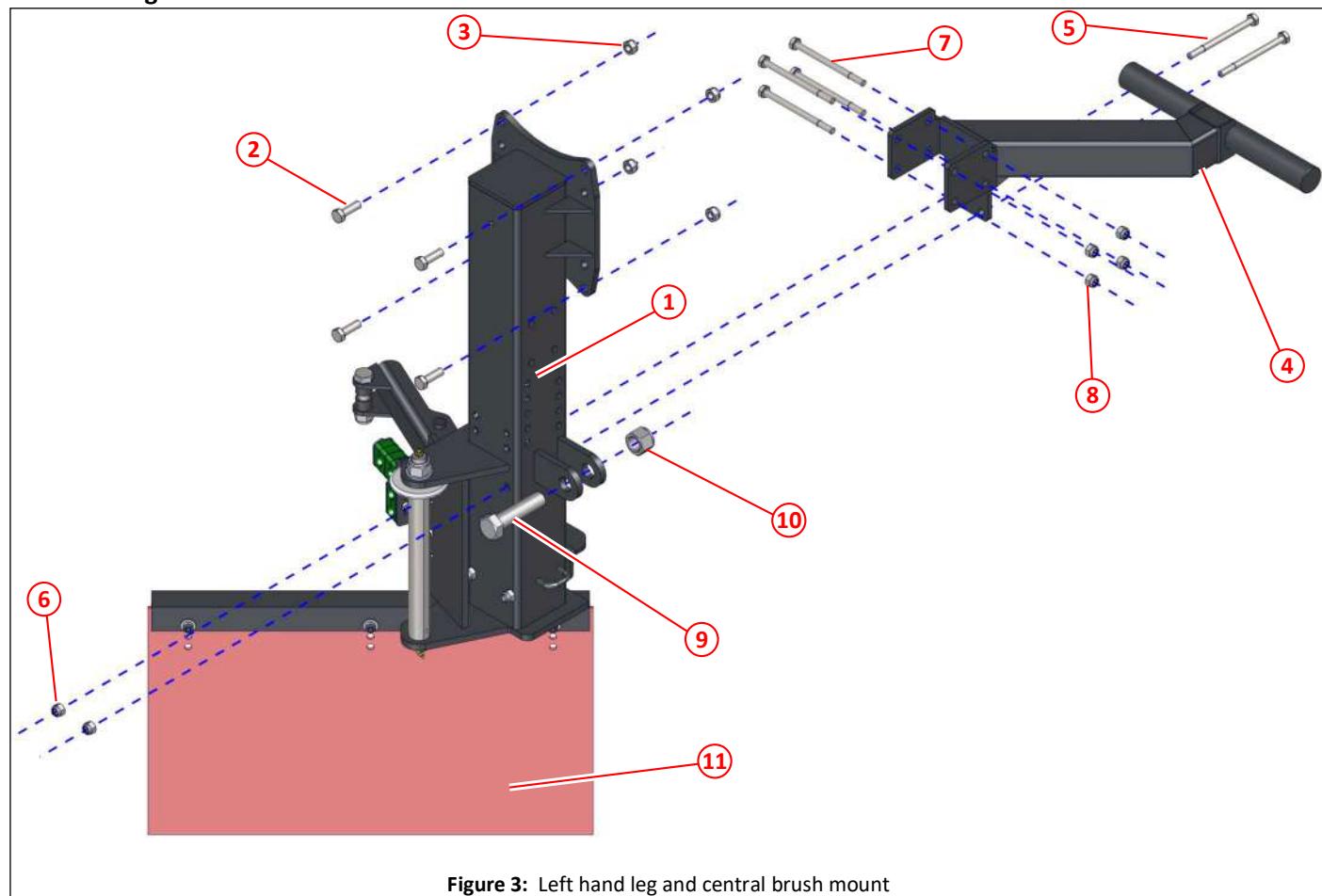
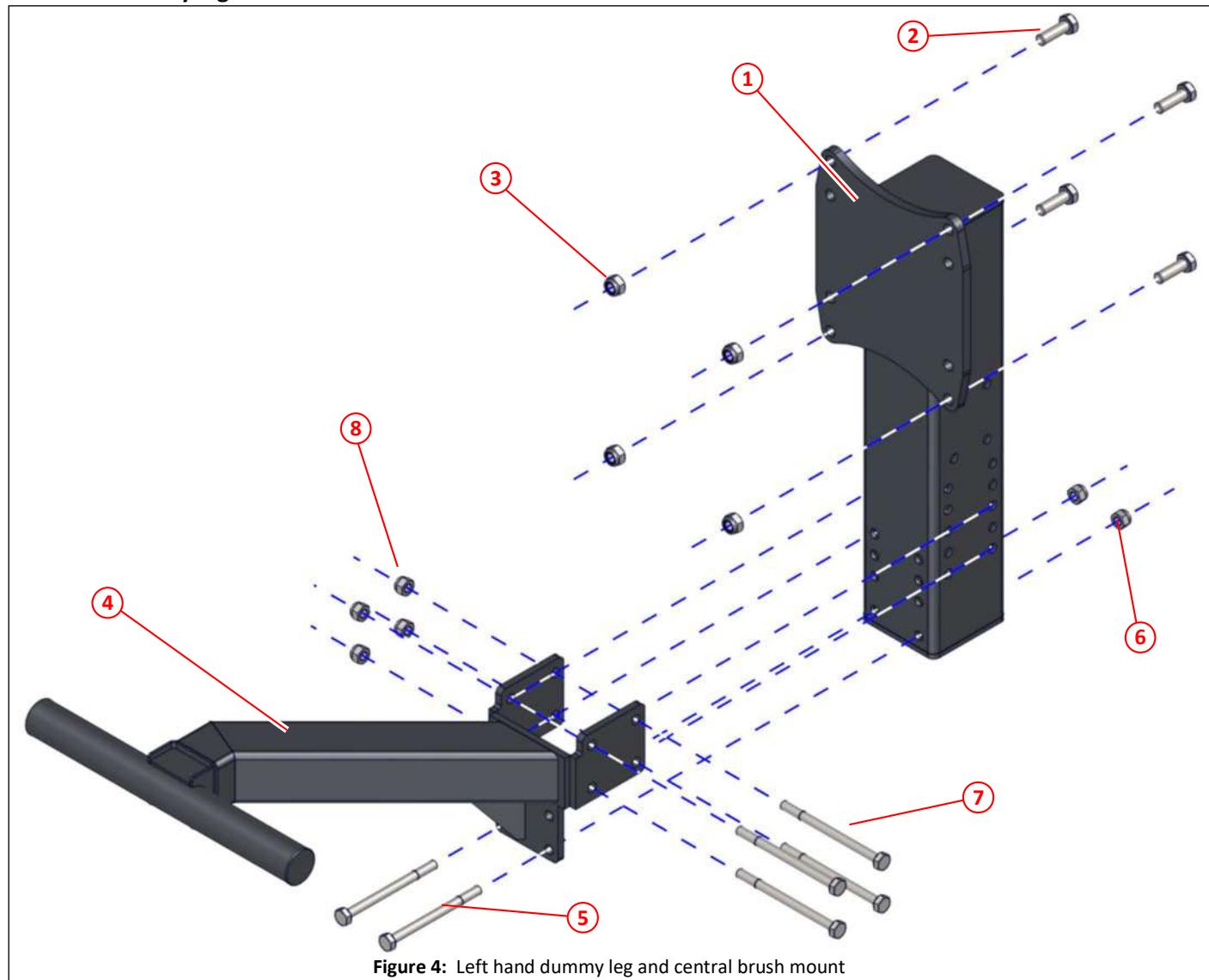


Figure 3: Left hand leg and central brush mount

Item	Part No	Qty	Description	
①	034265	1	Left hand leg	26
②	011053	4	Set screw M12 x 35	
③	011077	4	Nyloc nut M12	
④	034334	1	Left hand central brush (wide sweep) adjustable mount	26,28
⑤	011407	2	Bolt M10 x 120	
⑥	011075	2	Nyloc nut M10	
⑦	000075	4	Bolt M10 x 130	
⑧	011075	4	Nyloc nut M10	
⑨	011118	1	Bolt 7/8" UNF x 3 1/2"	
⑩	011119	1	Nyloc nut 7/8" UNF	
⑪			Front skirt, side brush	30

Left hand dummy leg and central brush mount



Item	Part No	Qty	Description	
①	042867	1	Dummy leg	
②	011053	4	Set screw M12 x 35	
③	011077	4	Nyloc nut M12	
④	034334	1	Left hand central brush (wide sweep) adjustable mount	26,27
⑤	011407	2	Bolt M10 x 120	
⑥	011075	2	Nyloc nut M10	
⑦	000075	4	Bolt M10 x 130	
⑧	011075	4	Nyloc nut M10	

Left hand leg, side brush swing in/out cylinder mounting

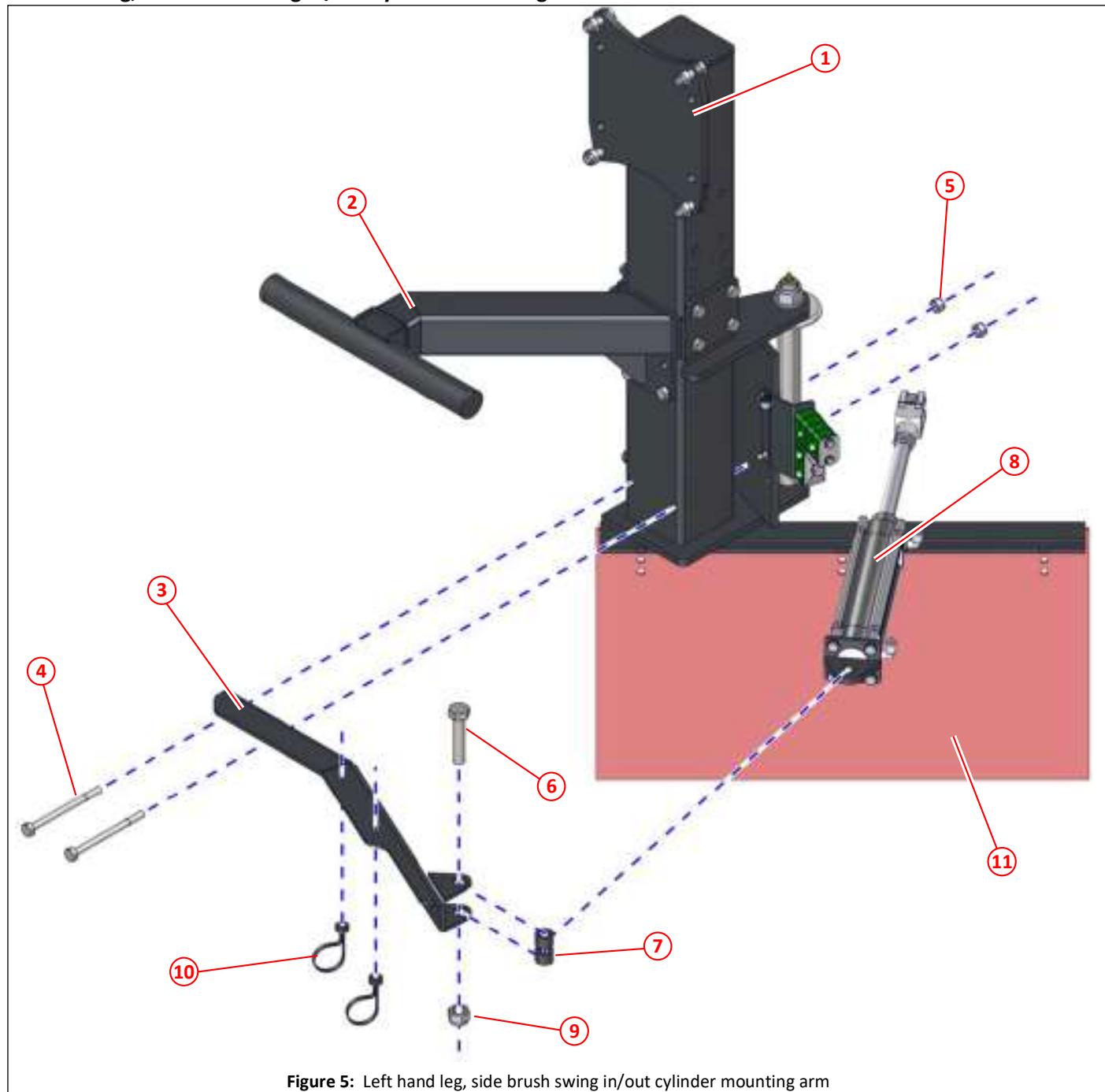


Figure 5: Left hand leg, side brush swing in/out cylinder mounting arm

Item	Part No	Qty	Description	
①	034265	1	Left hand leg	
②	034334	1	Left hand central brush (wide sweep) adjustable mount	26,27
③	021721 *	1	Left hand side brush swing in/out cylinder mounting arm	67
④	011407	2	Bolt M10 x 120	
⑤	011075	2	Nyloc nut M10	
⑥	011260	1	Bolt M16 x 70	
⑦	011000	2	Rubber spacers, 15mm long, (5/8" hose)	
⑧	022587	1	Pneumatic cylinder, side brush swing in/out, assembly	310
⑨	011060	1	Nyloc nut M16	
⑩	005061	2	Cable tie, round head	
⑪			Front skirt, side brush	30

*. If an auxiliary brush is fitted please see page 67 for a replacement of this part

Left hand leg, side brush front skirt

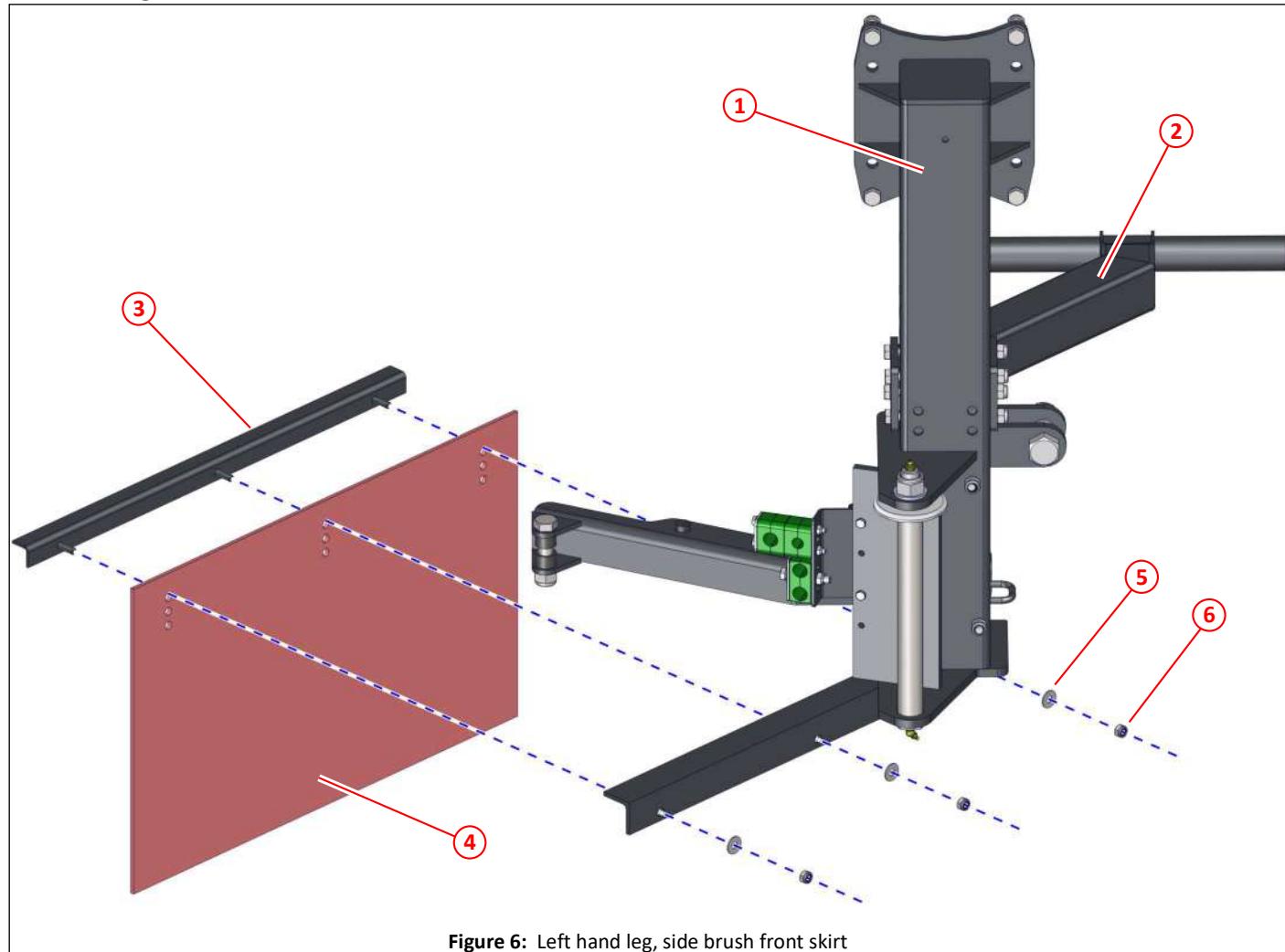
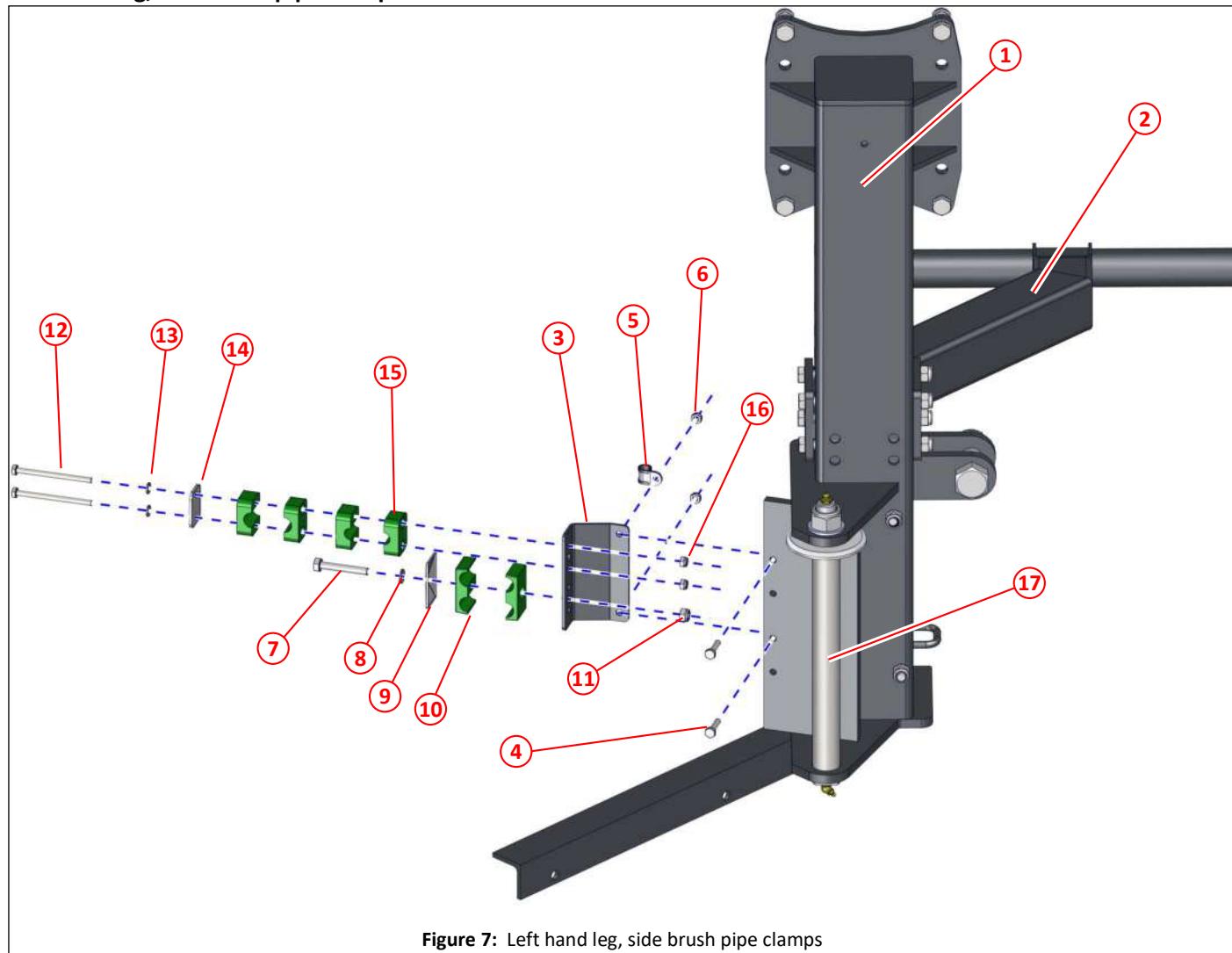


Figure 6: Left hand leg, side brush front skirt

Item	Part No	Qty	Description	
①	034265	1	Left hand leg	26
②	034334	1	Left hand central brush (wide sweep) adjustable mount	26,27
③	010275	1	Skirt clamp	
④	010247	1	Front skirt, side brush, 3-pitch, heavy duty	
⑤	011092	3	Plain washer M8	
⑥	011073	3	Nyloc nut M8	

Left hand leg, side brush pipe clamps

Figure 7: Left hand leg, side brush pipe clamps

Item	Part No	Qty	Description	
①	034265	1	Left hand leg	26,27
②	034334	1	Left hand central brush (wide sweep) adjustable mount	26,27
③	031306	1	Clamp support, lower	
④	011087	2	Set screw M6 x 25	
⑤	021914	1	P-clip ø12, rubber sealed	
⑥	011071	2	Nyloc nut M6	
⑦	011016	1	Set screw M8 x 50	
⑧	011093	1	Spring washer M8	
⑨	031319	1	Clamp plate, flat	
⑩	031318	2	Clamp $\frac{3}{8}$ " hose, twin	
⑪	011073	1	Nyloc nut M8	
⑫	000221	2	Bolt M6 x 80	
⑬	011091	2	Spring washer M6	
⑭	031317	1	Clamp plate, flat	
⑮	031316	4	Clamp $\frac{1}{4}$ " hose, single	
⑯	011071	2	Nyloc nut M6	
⑰	013007	1	King pin	32

Left hand side brush king post, swing in/out arrangement

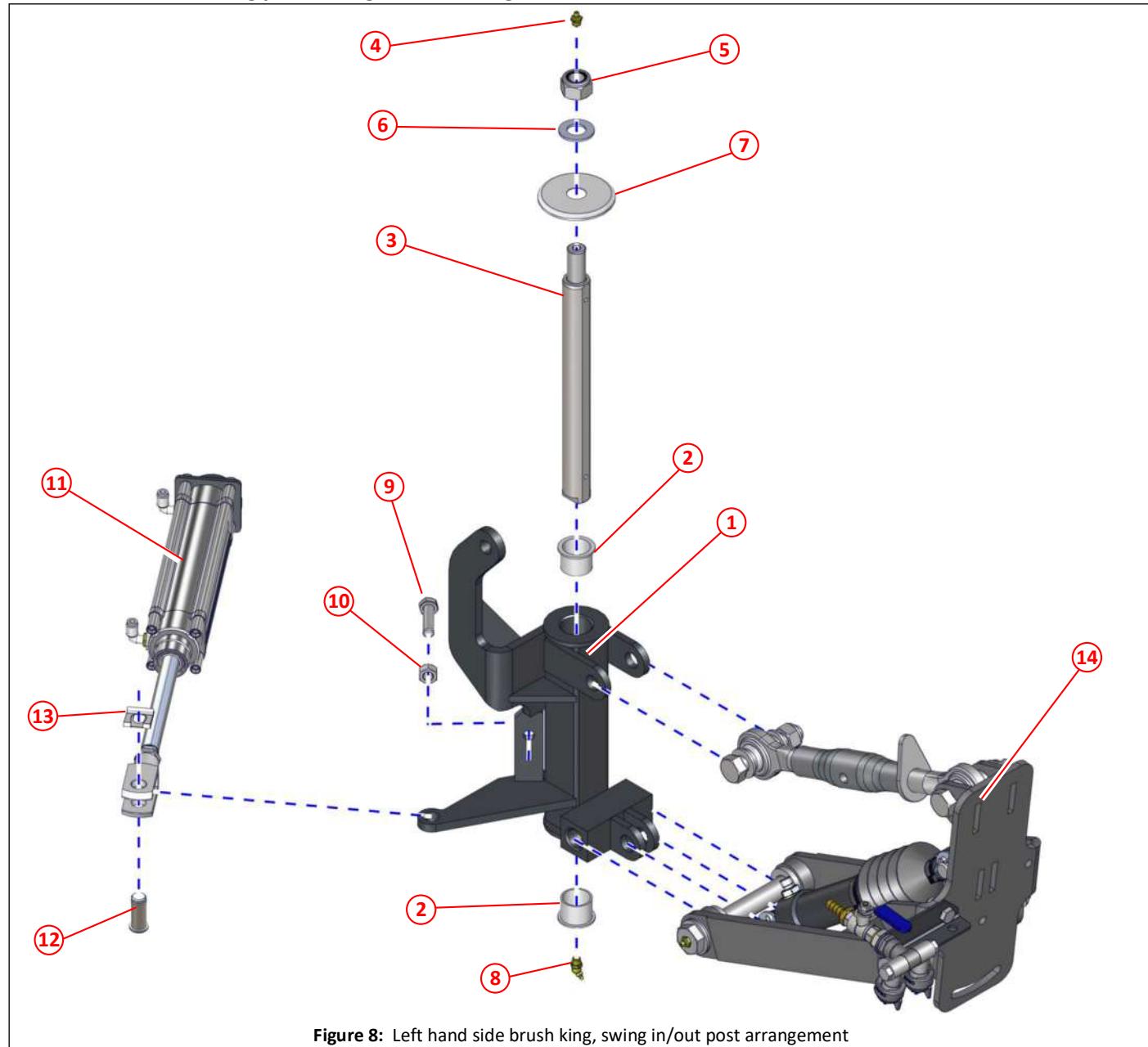
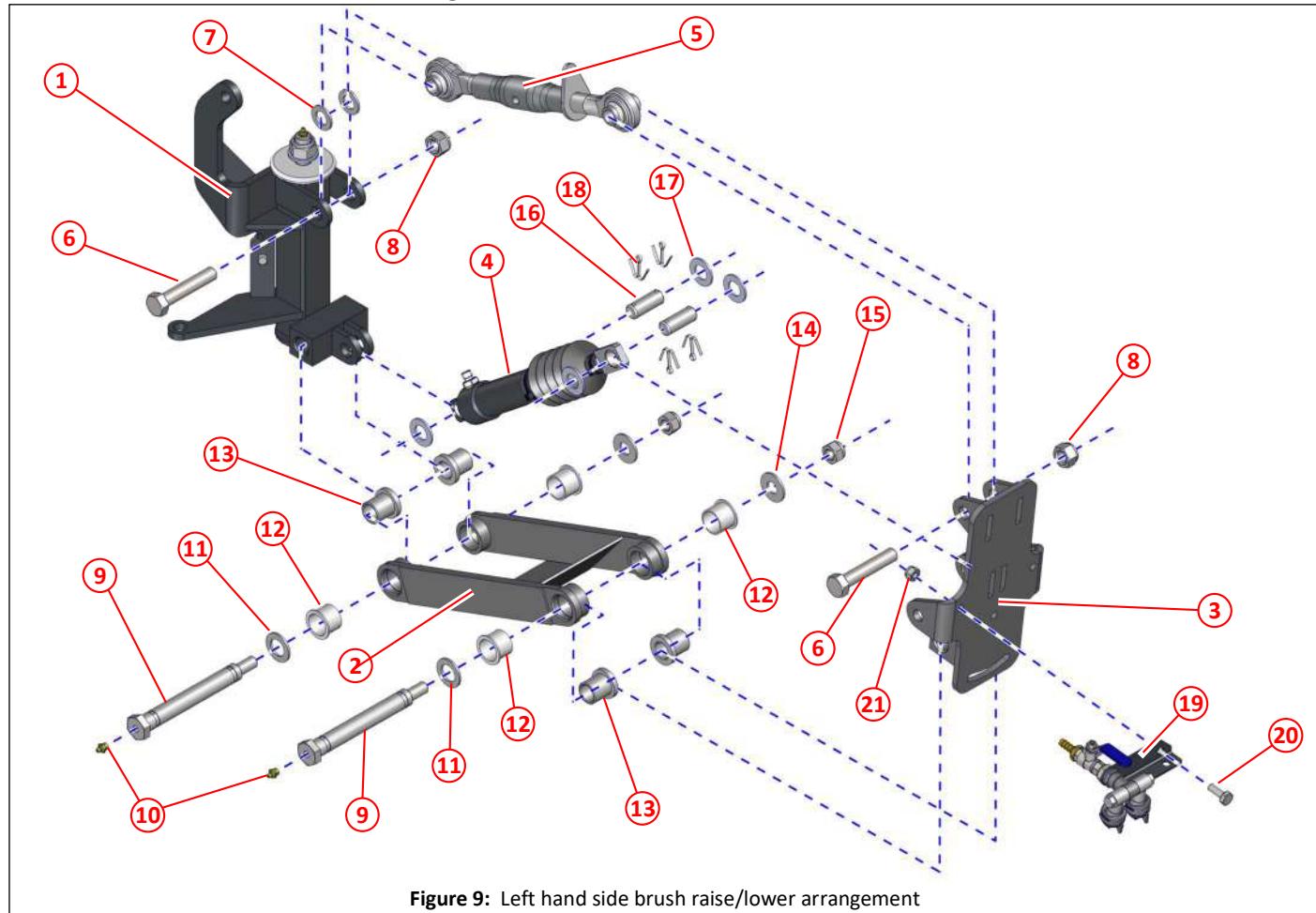


Figure 8: Left hand side brush king, swing in/out post arrangement

Item	Part No	Qty	Description	
①	023120	1	King post, left hand side brush	26
②	013012	2	Bush	
③	013007	1	King pin	31
④	010903	1	Grease nipple 1/8" BSP, straight	
⑤	011082	1	Nyloc nut M20	
⑥	011102	1	Plain washer M20	
⑦	013013	1	Dirt shield	
⑧	010901	1	Grease nipple 1/8" BSP, 135°	
⑨	011054	1	Set screw M12 x 45	
⑩	011076	1	Full nut M12	
⑪	022587	1	Pneumatic cylinder, side brush swing in/out, assembly	310
⑫	022673	1	Clevis pin	
⑬	022674	1	Clip, retaining, M16	
⑭			Side brush raise/lower assembly	33

Left hand side brush raise/lower arrangement

Figure 9: Left hand side brush raise/lower arrangement

Item	Part No	Qty	Description	
①	023120	1	King post, left hand side brush	32
②	014801	1	Brush link, side brush	
③	023121	1	Swivel plate, side brush	34
④	024539	1	Ram No 12 240/340 assembly	273
⑤	013011	1	Top link, side brush	
⑥	011140	2	Bolt M18 x 90	
⑦	011138	2	Plain washer M18	
⑧	011139	2	Nyloc nut M18	
⑨	014796	2	Pivot bolt, side brush	
⑩	010903	2	Grease nipple $\frac{1}{8}$ " BSP, straight	
⑪	014798	2	Washer 24 x 40 x 3	
⑫	013012	4	Bush	
⑬	014799	4	Spacer sleeve, side brush	
⑭	014797	2	Washer 17 x 40 x 3	
⑮	011060	2	Nyloc nut M16	
⑯	010067	2	Pin 20 x 50	
⑰	011102	4	Plain washer M20	
⑱	011122	4	Split pin $\frac{3}{16}$ " x $1\frac{1}{2}$ "	
⑲			Water spray nozzle assembly	34
⑳	011031	1	Set screw M10 x25	
㉑	011075	1	Nyloc nut M10	

Left hand side brush water jet arrangement

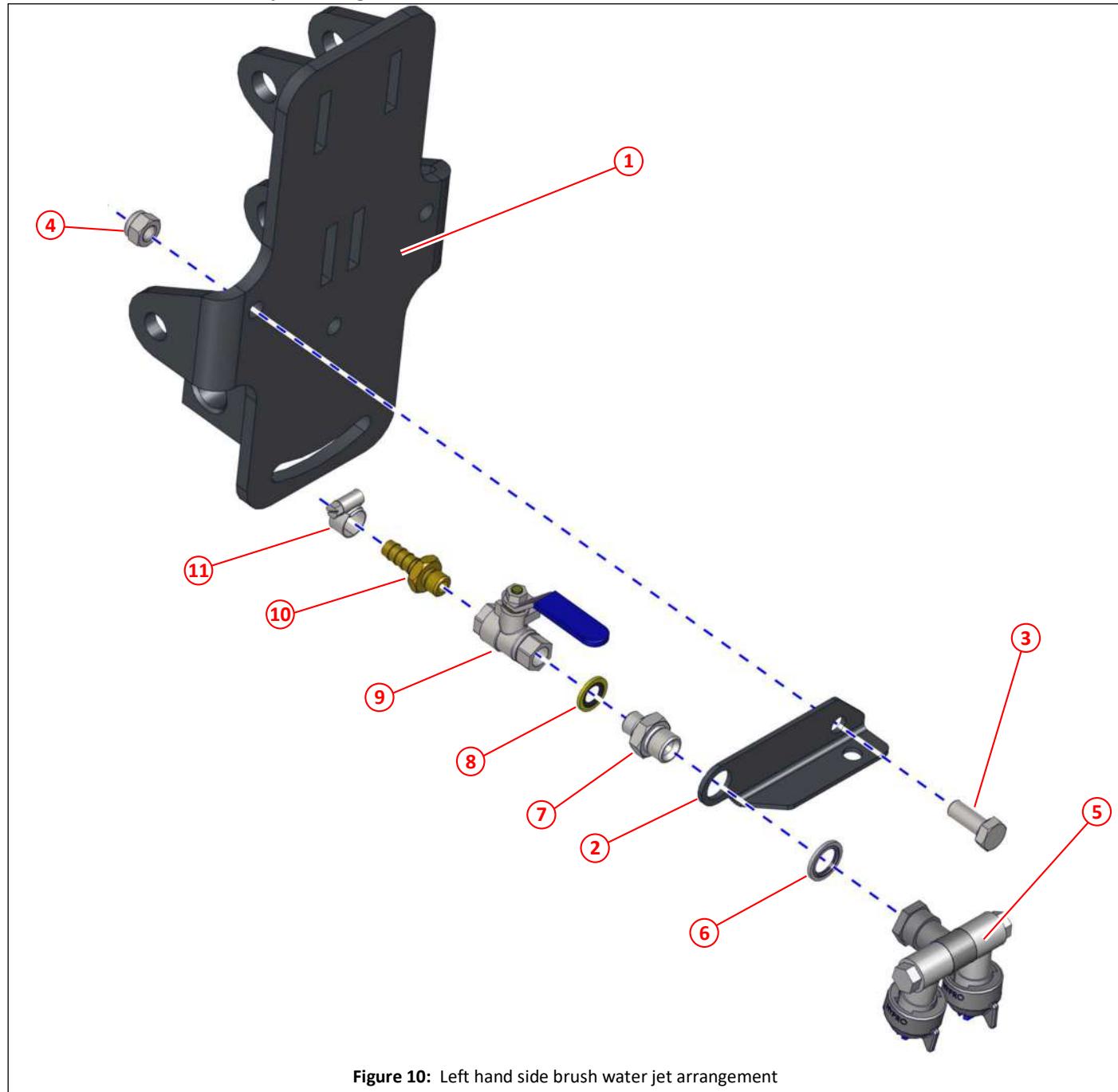
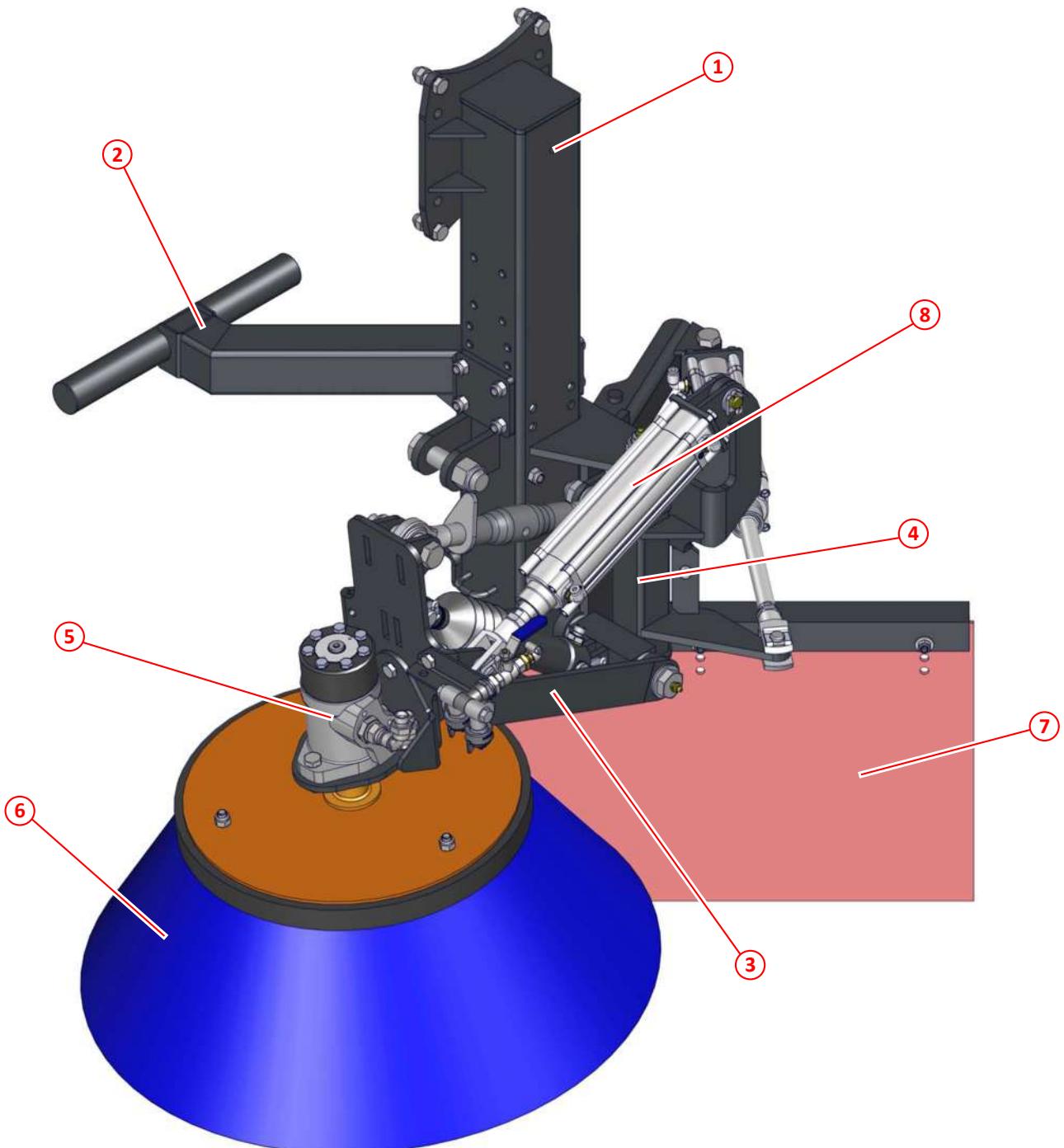


Figure 10: Left hand side brush water jet arrangement

Item	Part No	Qty	Description	
①	023121	1	Swivel plate, side brush	33
②	036042	1	Nozzle bracket, twin nozzles, side brush, for left hand side	
③	011031	1	Set screw M10 x25	
④	011075	1	Nyloc nut M10	
⑤	036044	1	Double swivel nozzle assembly	225
⑥	011153	1	Dowty seal 3/8" BSP	
⑦	011152	1	Dowty seal 1/4" BSP	
⑧	011199	1	Adapter 3/8" x 1/4" BSP	
⑨	011743	1	Valve, ball, 1/4" BSP	
⑩	010922	1	Adapter 1/4" BSP x 3/8" hose tail	
⑪	010516	1	Hose clamp, worm drive, No. M00 (ø11mm-ø16mm)	

Right hand leg and side brush arrangement


i Shown with brush pressure option.

Figure 11: Right hand leg and side brush arrangement

Item	Part No	Qty	Description	
①	034266	1	Right hand leg	36
②	034335	1	Right hand central brush (wide sweep) adjustable mount	36,37
③			Right hand side brush raise/lower assembly	42
④			Right hand side brush, king post, swing in/out assembly	41
⑤			Side brush motor assembly	275
⑥			Side brushes	44
⑦			Front skirt, side brush	39
⑧			Side brush pressure cylinder (option)	311

Right hand leg and central brush mount

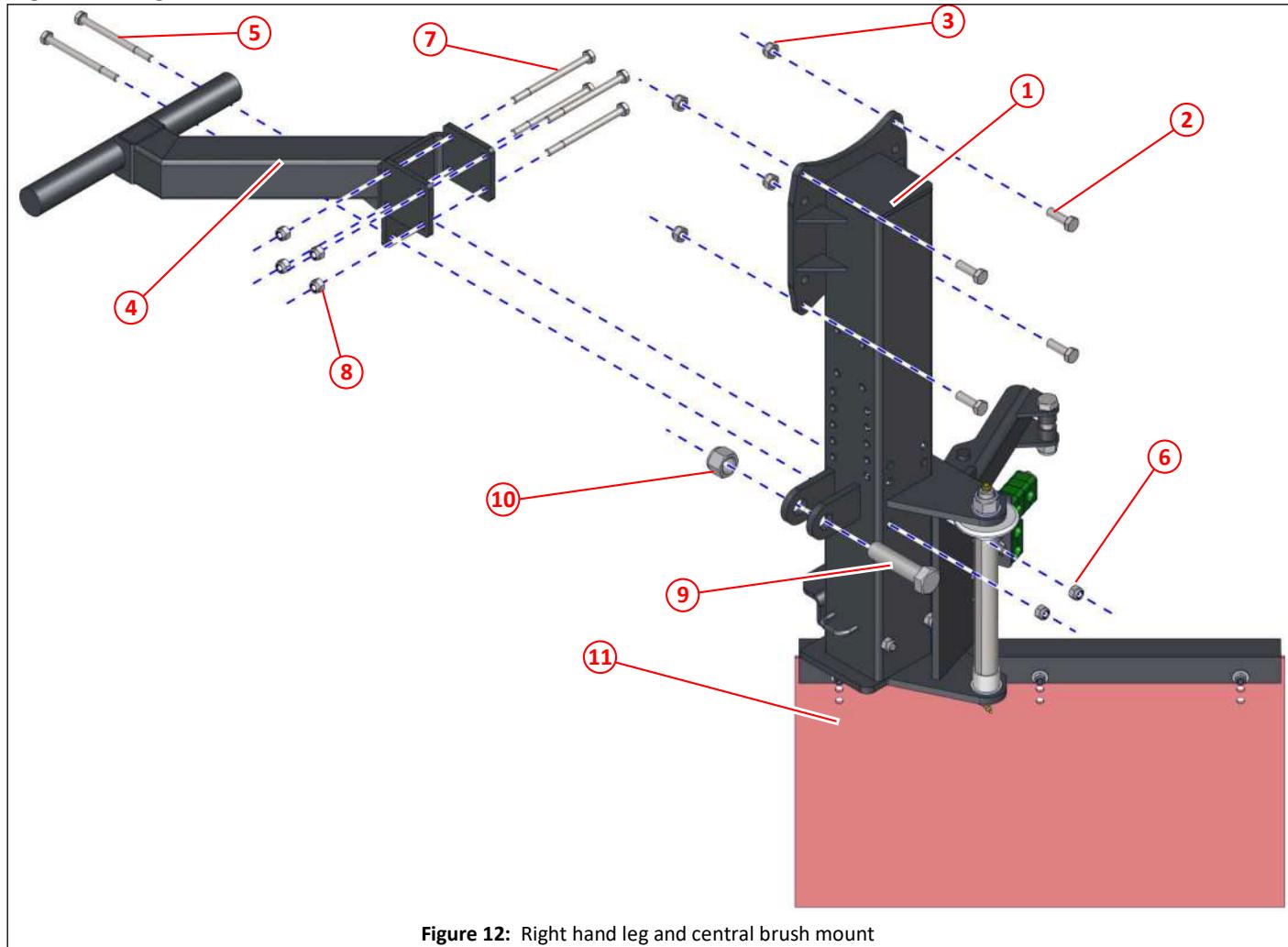
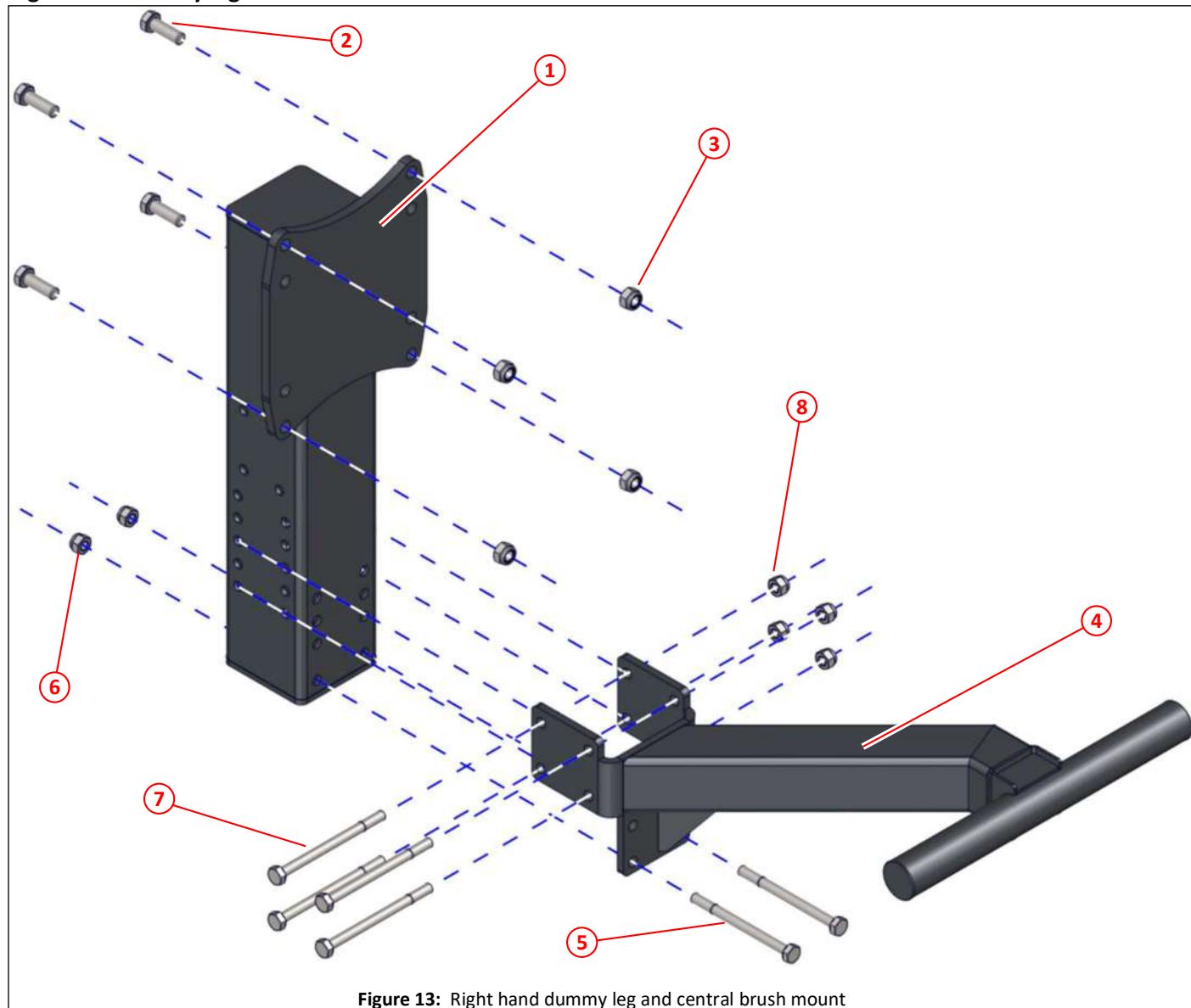


Figure 12: Right hand leg and central brush mount

Item	Part No	Qty	Description	
①	034266	1	Right hand leg	35
②	011053	4	Set screw M12 x 35	
③	011077	4	Nyloc nut M12	
④	034335	1	Right hand central brush (wide sweep) adjustable mount	35,37
⑤	011407	2	Bolt M10 x 120	
⑥	011075	2	Nyloc nut M10	
⑦	000075	4	Bolt M10 x 130	
⑧	011075	4	Nyloc nut M10	
⑨	011118	1	Bolt $\frac{7}{8}$ " UNF x $3\frac{1}{2}"$	
⑩	011119	1	Nyloc nut $\frac{7}{8}$ " UNF	
⑪			Front skirt, side brush	39

Right hand dummy leg and central brush mount



Item	Part No	Qty	Description	
①	042867	1	Dummy leg	
②	011053	4	Set screw M12 x 35	
③	011077	4	Nyloc nut M12	
④	034335	1	Right hand central brush (wide sweep) adjustable mount	35,36,
⑤	011407	2	Bolt M10 x 120	
⑥	011075	2	Nyloc nut M10	
⑦	000075	4	Bolt M10 x 130	
⑧	011075	4	Nyloc nut M10	

Right hand leg, side brush swing in/out cylinder mounting

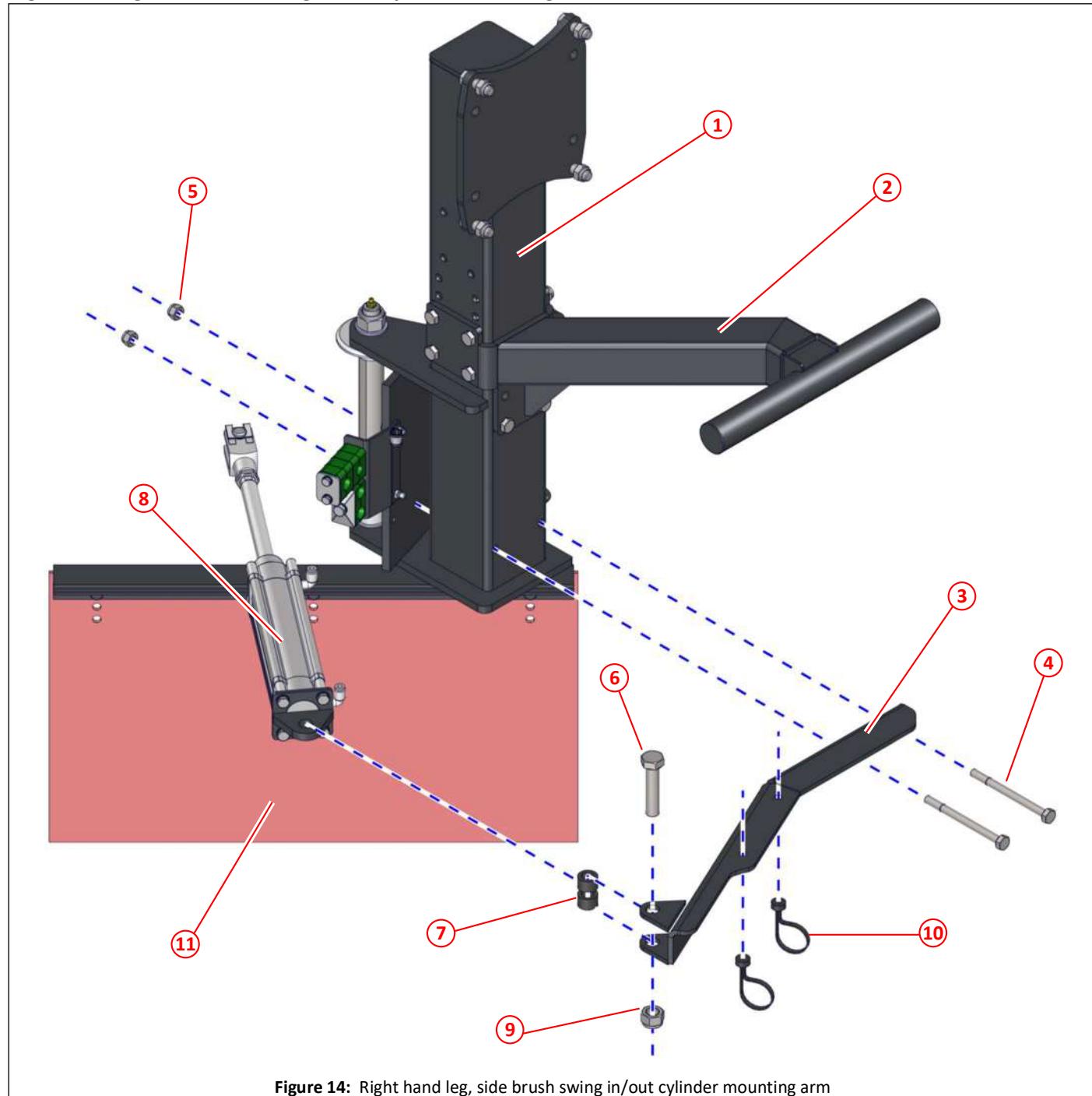
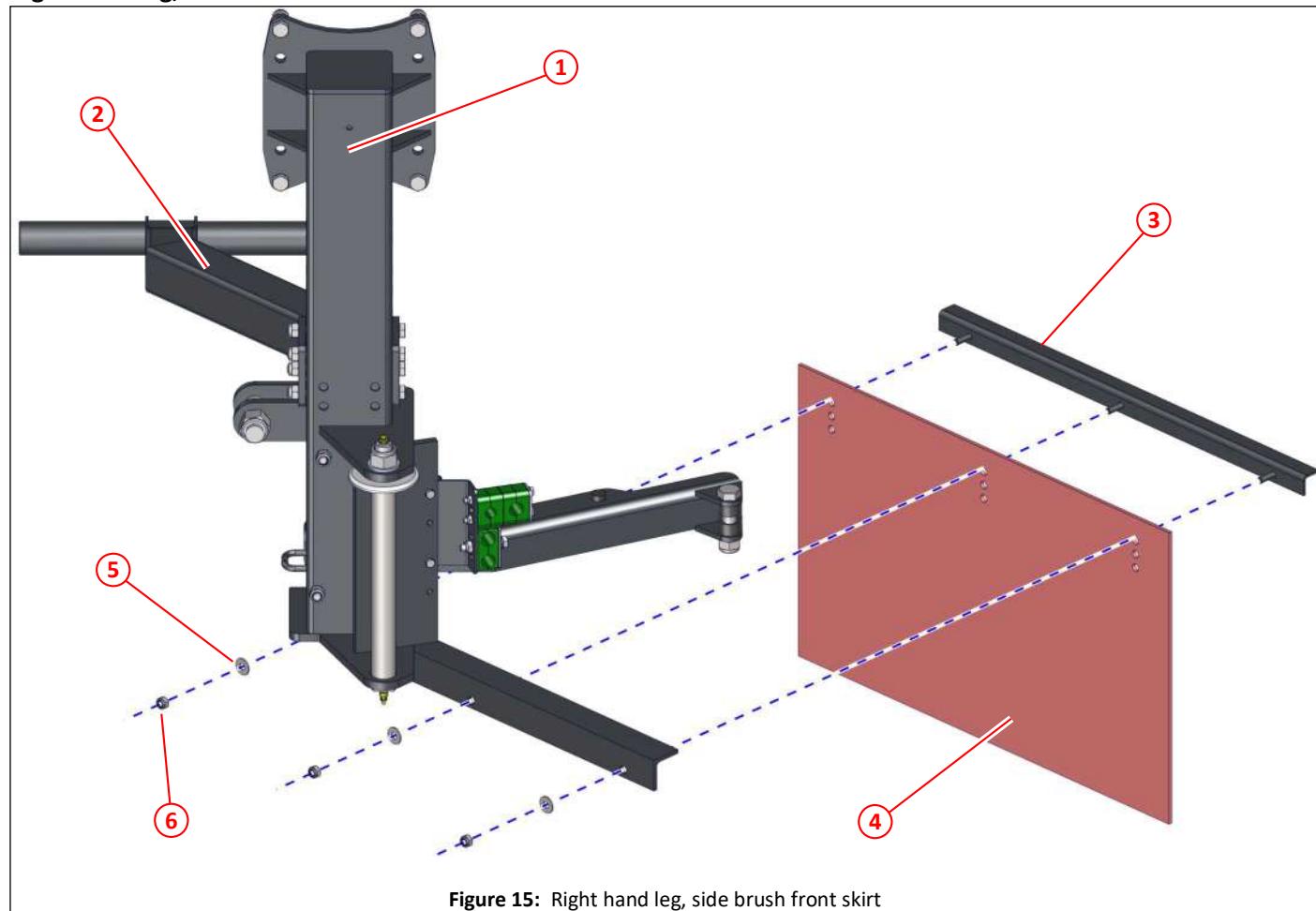


Figure 14: Right hand leg, side brush swing in/out cylinder mounting arm

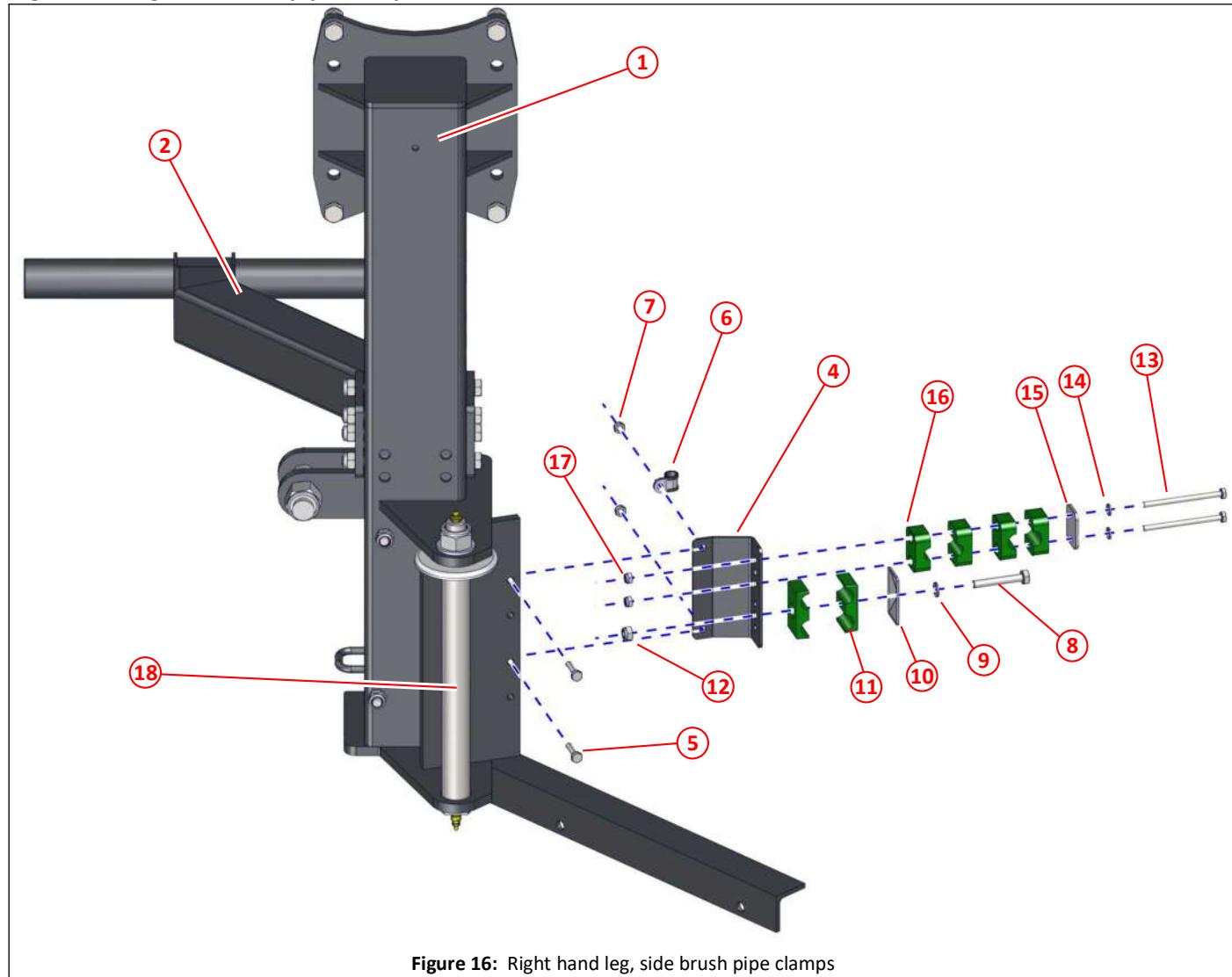
Item	Part No	Qty	Description	
①	034266	1	Right hand leg	35
②	034335	1	Right hand central brush (wide sweep) adjustable mount	35,36
③	021722	1	Right hand side brush swing in/out cylinder mounting arm	
④	011407	2	Bolt M10 x 120	
⑤	011075	2	Nyloc nut M10	
⑥	011260	1	Bolt M16 x 70	
⑦	011000	2	Rubber spacers, 15mm long, 5/8" hose	
⑧	022587	1	Pneumatic cylinder, side brush swing in/out, assembly	310
⑨	011060	1	Nyloc nut M16	
⑩	005061	2	Cable tie, round head	
⑪			Front skirt, side brush	39

Right hand leg, side brush front skirt

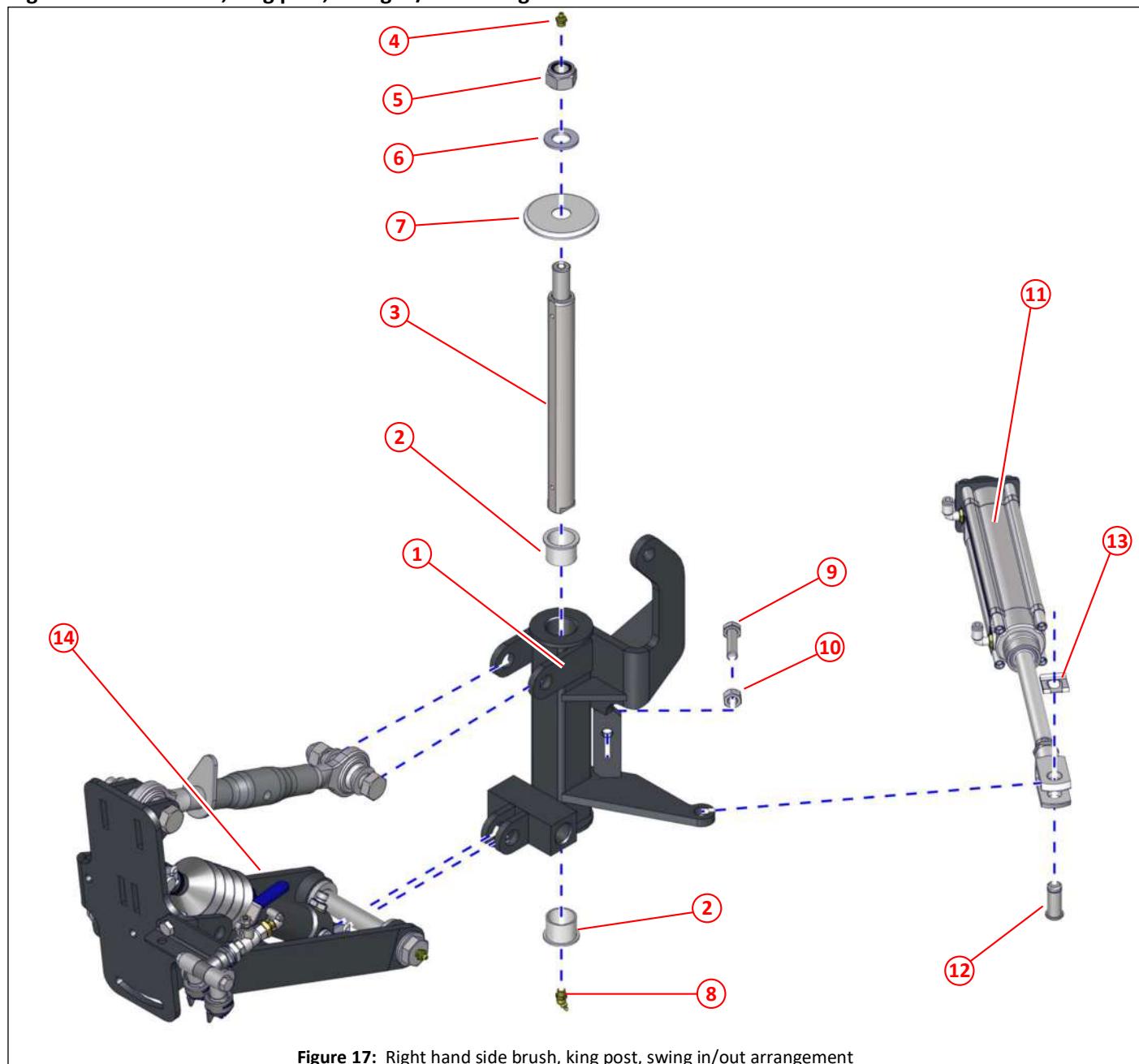


Item	Part No	Qty	Description	
①	034266	1	Left hand leg	35
②	034335	1	Left hand central brush (wide sweep) adjustable mount	36
③	010275	1	Skirt clamp	
④	010247	1	Front skirt, side brush, 3-pitch, heavy duty	
⑤	011092	3	Plain washer M8	
⑥	011073	3	Nyloc nut M8	

Right hand leg, side brush pipe clamps

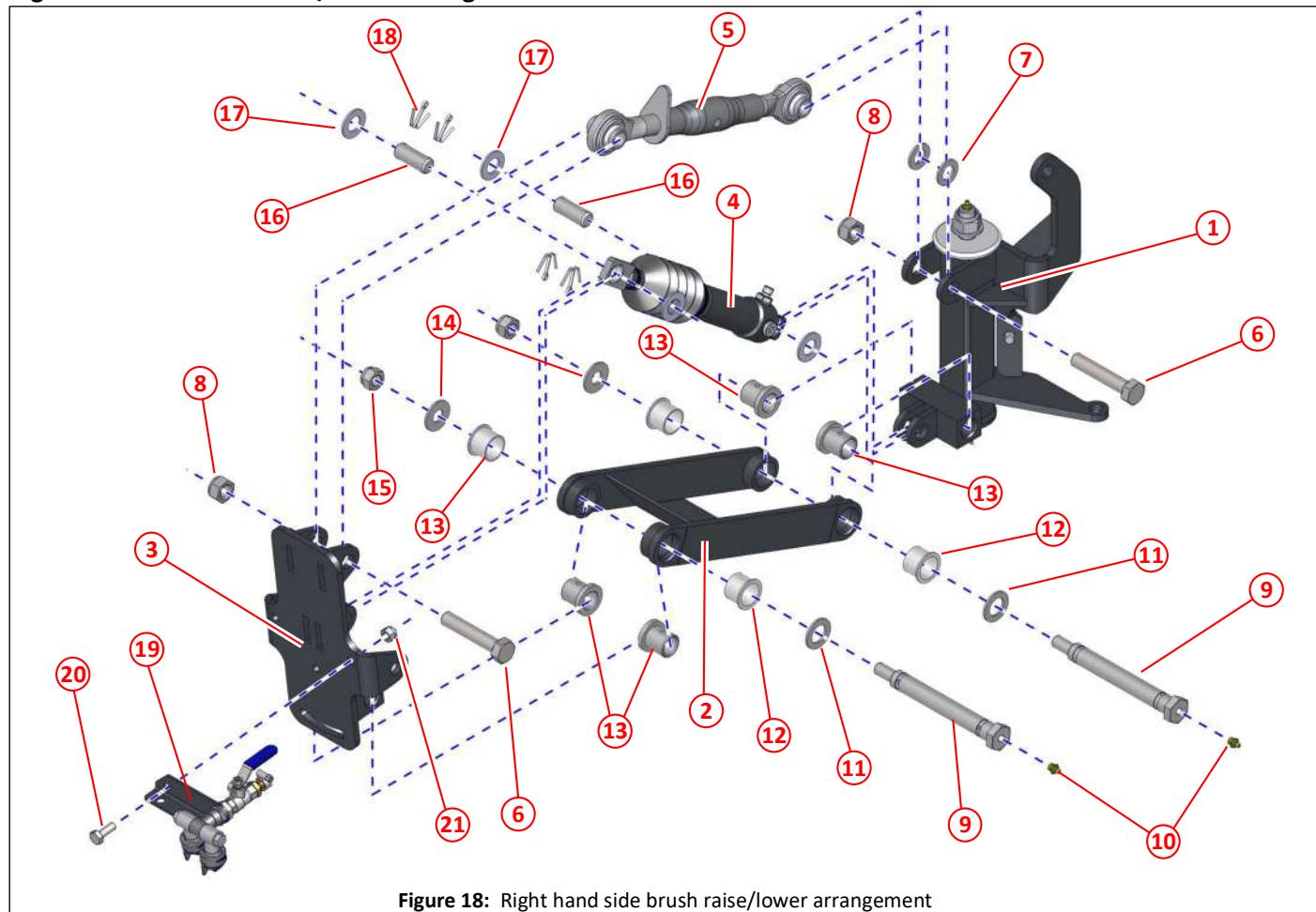


Item	Part No	Qty	Description	
①	034266	1	Right hand leg	35
②	034335	1	Right hand central brush (wide sweep) adjustable mount	36
③	031306	1	Clamp support, lower	
④	011087	2	Set screw M6 x 25	
⑤	021914	1	P-clip ø12, rubber sealed	
⑥	011071	2	Nyloc nut M6	
⑦	011016	1	Set screw M8 x 50	
⑧	011093	1	Spring washer M8	
⑨	031319	1	Clamp plate, flat	
⑩	031318	2	Clamp $\frac{3}{8}$ " hose, twin	
⑪	011073	1	Nyloc nut M8	
⑫	000221	2	Bolt M6 x 80	
⑬	011091	2	Spring washer M6	
⑭	031317	1	Clamp plate, flat	
⑮	031316	4	Clamp $\frac{1}{4}$ " hose, single	
⑯	011071	2	Nyloc nut M6	
⑰	013007	1	King pin	41

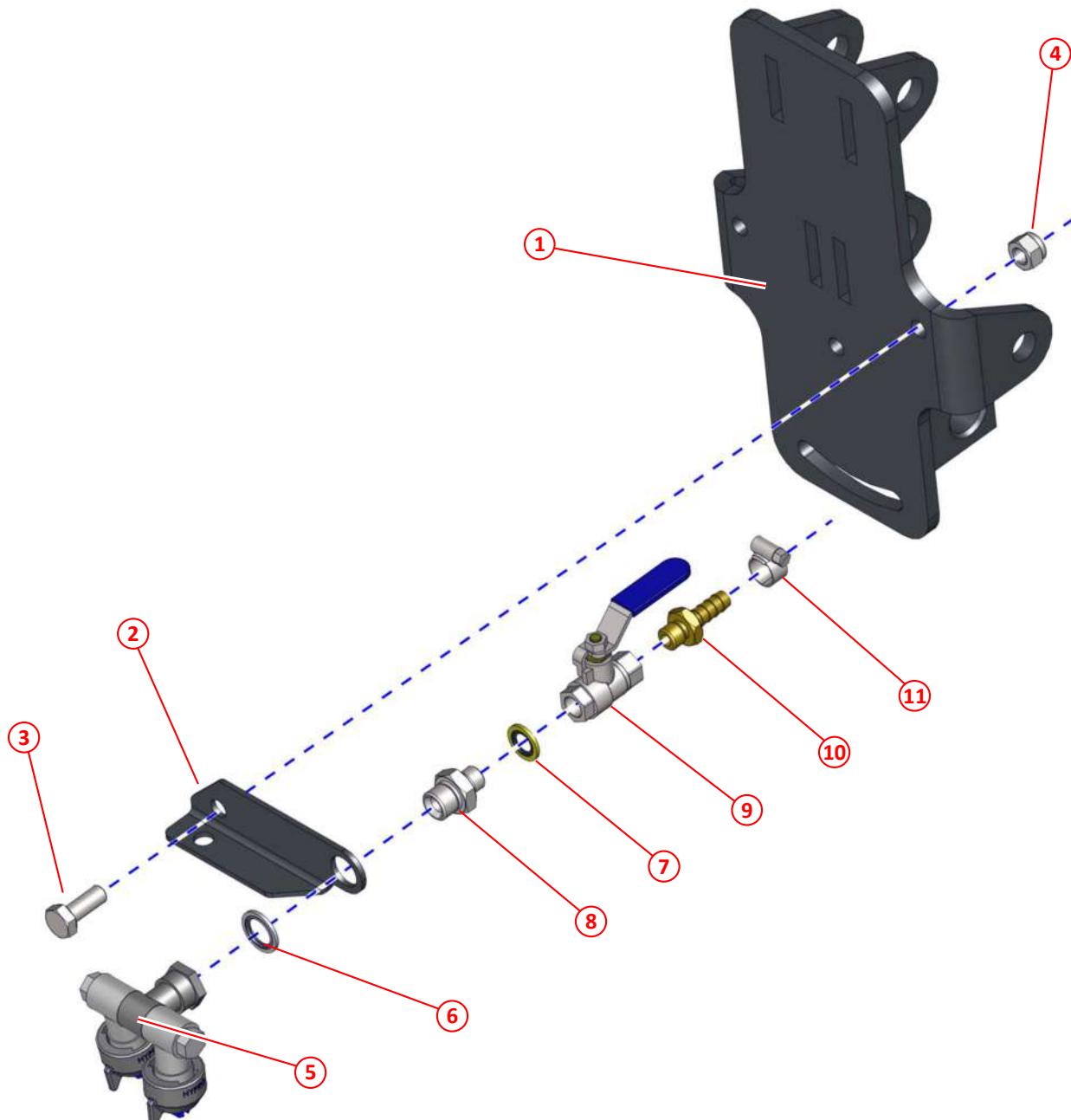
Right hand side brush, king post, swing in/out arrangement

Figure 17: Right hand side brush, king post, swing in/out arrangement

Item	Part No	Qty	Description	
①	023124	1	King post, right hand side brush	35
②	013012	2	Bush	
③	013007	1	King pin	40
④	010903	1	Grease nipple 1/8" BSP, straight	
⑤	011082	1	Nyloc nut M20	
⑥	011102	1	Plain washer M20	
⑦	013013	1	Dirt shield	
⑧	010901	1	Grease nipple 1/8" BSP, 135°	
⑨	011054	1	Set screw M12 x 45	
⑩	011076	1	Full nut M12	
⑪	022587	1	Pneumatic cylinder, side brush swing in/out, assembly	310
⑫	022673	1	Clevis pin	
⑬	022674	1	Clip, retaining, M16	
⑭			Side brush raise/lower assembly	42

Right hand side brush raise/lower arrangement

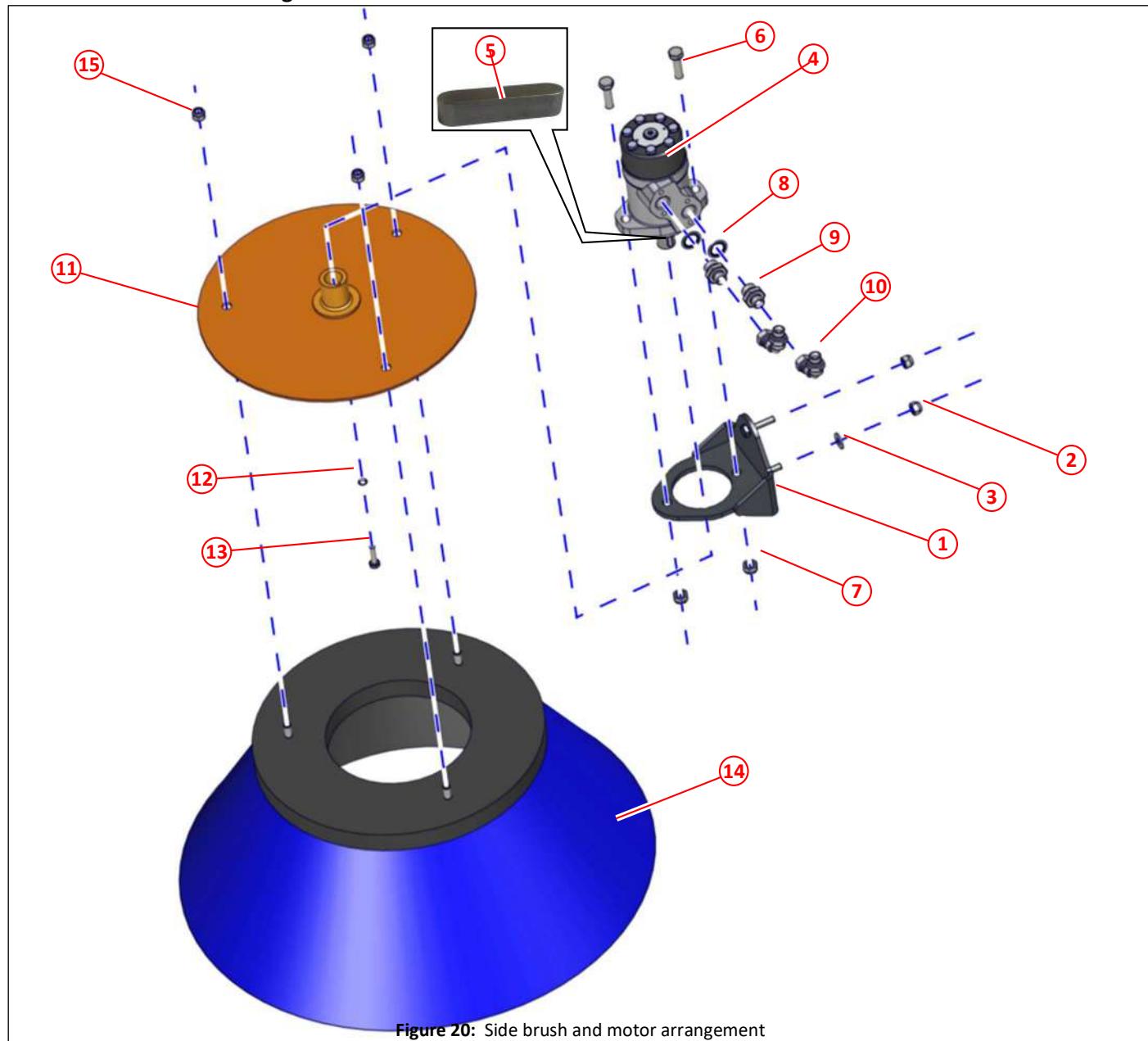


Item	Part No	Qty	Description	
①	023124	1	King post, right hand side brush	41
②	014801	1	Brush link, side brush	
③	023121	1	Swivel plate, side brush	43
④	024539	1	Ram No 12 240/340 assembly	273
⑤	013011	1	Top link, side brush	
⑥	011140	2	Bolt M18 x 90	
⑦	011138	2	Plain washer M18	
⑧	011139	2	Nyloc nut M18	
⑨	014796	2	Pivot bolt, side brush	
⑩	010903	2	Grease nipple $\frac{1}{8}$ " BSP, straight	
⑪	014798	2	Washer 24 x 40 x 3	
⑫	013012	4	Bush	
⑬	014799	4	Spacer sleeve, side brush	
⑭	014797	2	Washer 17 x 40 x 3	
⑮	011060	2	Nyloc nut M16	
⑯	010067	2	Pin 20 x 50	
⑰	011102	4	Plain washer M20	
⑱	011122	4	Split pin $\frac{3}{16}$ " x $1\frac{1}{2}$ "	
⑲			Water spray nozzle assembly	43
⑳	011031	1	Set screw M10 x25	
㉑	011075	1	Nyloc nut M10	

Right hand side brush water jet arrangement

Figure 19: Right hand side brush water jet arrangement

Item	Part No	Qty	Description	
①	023121	1	Swivel plate, side brush	42
②	036042	1	Nozzle bracket, twin nozzles, side brush, for right hand side	
③	011031	1	Set screw M10 x25	
④	011075	1	Nyloc nut M10	
⑤	036044	1	Double swivel nozzle assembly	226
⑥	011153	1	Dowty seal 3/8" BSP	
⑦	011152	1	Dowty seal 1/4" BSP	
⑧	011199	1	Adapter 3/8" x 1/4" BSP	
⑨	011743	1	Valve, ball, 1/4" BSP	
⑩	010922	1	Adapter 1/4" BSP x 3/8" hose tail	
⑪	010516	1	Hose clamp, worm drive, No. M00 (ø11mm-ø16mm)	

Side brush and motor arrangement



Item	Part No	Qty	Description
①	010007	1	Motor bracket
②	011075	2	Nyloc nut M10
③	011094	1	Plain washer M10
④	010749	1	Motor 3597 (OMP 200)
⑤	011515	1	Key for motor
⑥	011069	2	Bolt M12 x 40
⑦	011077	2	Nyloc nut M12
⑧	011154	2	Dowty seal $\frac{1}{2}$ " BSP
⑨	011167	2	Adapter $\frac{1}{2}$ " BSP x $\frac{3}{8}$ " BSP
⑩	011221	2	Elbow, swept, $\frac{3}{8}$ " BSP
⑪	014067	1	Brush disc, side
⑫	040197	1	Schnorr safety washer type VS8
⑬	011012	1	Set screw M8 x 30
⑭	023473	1	Brush, steel, $\varnothing 400$ - $\varnothing 650$
⑮	011075	3	Nyloc nut M10

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Central brush (wide sweep) general arrangement

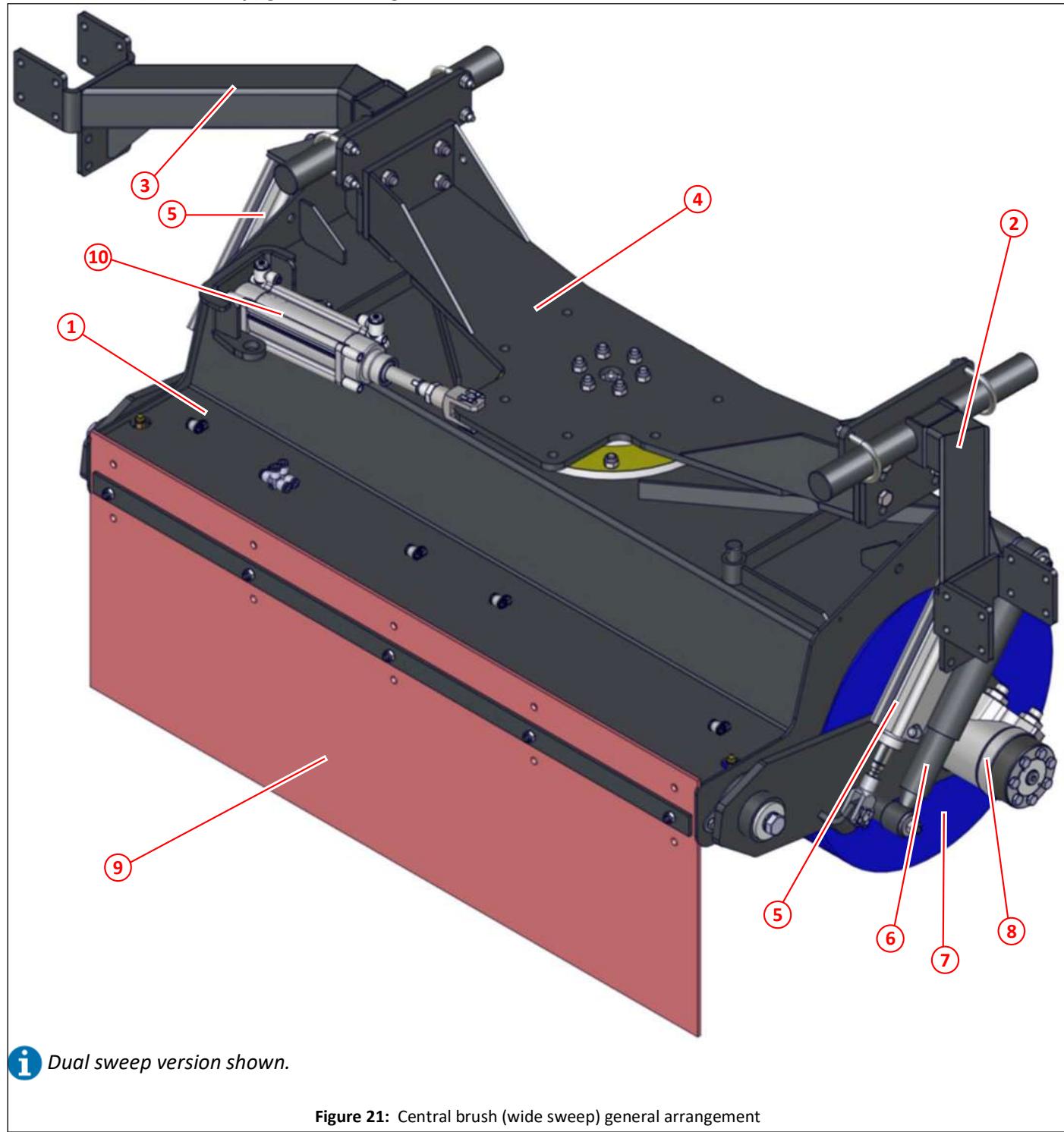


Figure 21: Central brush (wide sweep) general arrangement

Item	Part No	Qty	Description	
①			Central brush (wide sweep)	56
②	034334	1	Adjustable bar, left hand	27
③	034335	1	Adjustable bar, right hand	36
④	024155	1	Bracket, wide sweep support	48,49
⑤	020602	2	Pneumatic cylinder 40 x 125, central brush (wide sweep) raise/lower	51,52
⑥	014603	2	Shock absorber 320/500	51,52
⑦	037588	1	Brush core assembly	57
⑧	010566	1	Motor 3596 (OMP 100)	51,53,276
⑨	022516	1	Skirt, central brush (wide sweep)	55
⑩	020767	1	Pneumatic cylinder 50 x 100, central brush (wide sweep) slew	49,308

Central brush (wide sweep) mounting arrangement

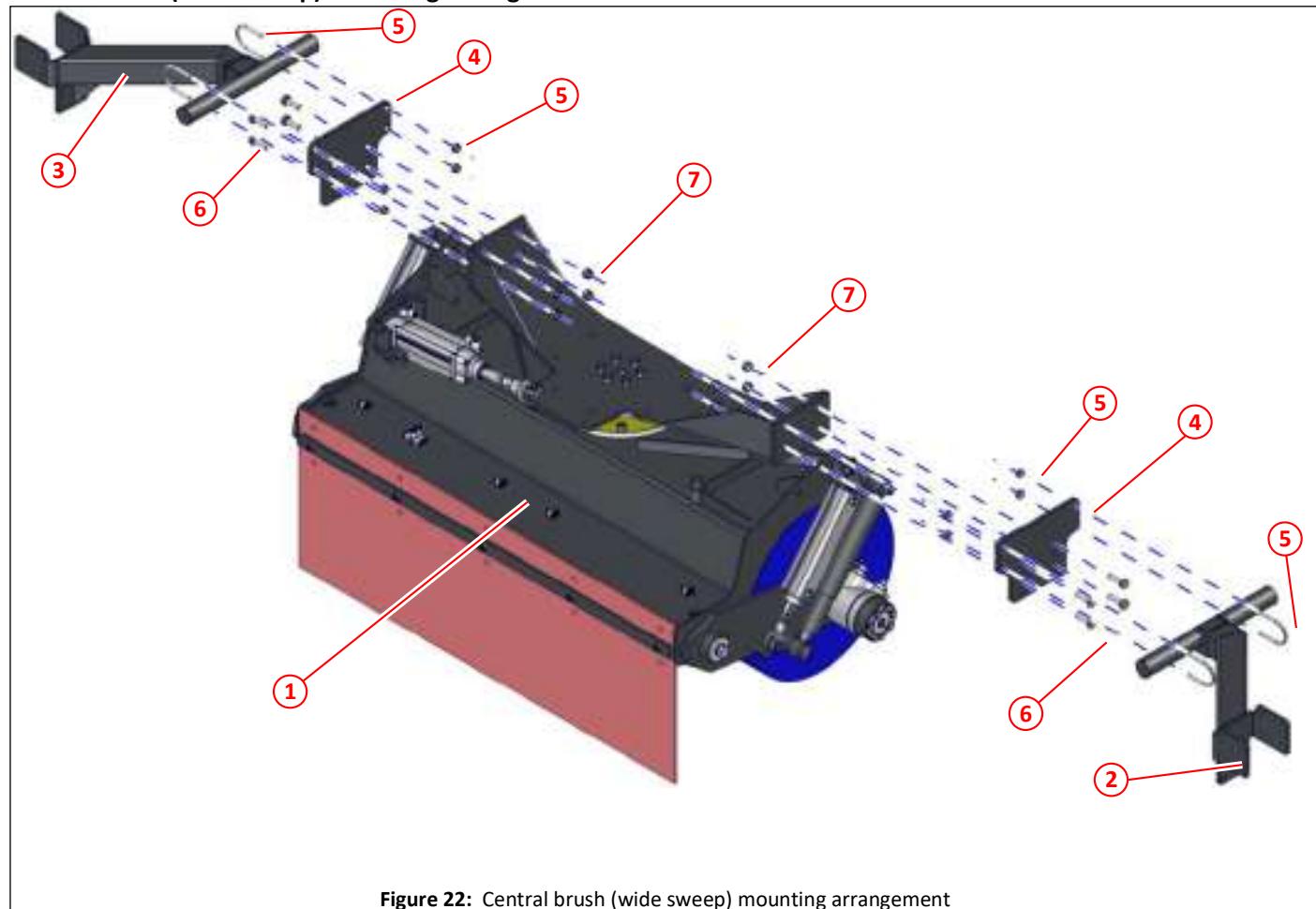


Figure 22: Central brush (wide sweep) mounting arrangement

Item	Part No	Qty	Description	
①			Central brush (wide sweep)	56
②	034334	1	Adjustable bar, left hand	27
③	034335	1	Adjustable bar, right hand	36
④	034336	2	Drop plate	
⑤	023148	4	'U' clamp $1\frac{1}{2}$ "	
⑥	011053	8	Set screw M12 x 35	
⑦	011077	8	Nyloc nut M12	

Central brush (wide sweep) support, fixed slew

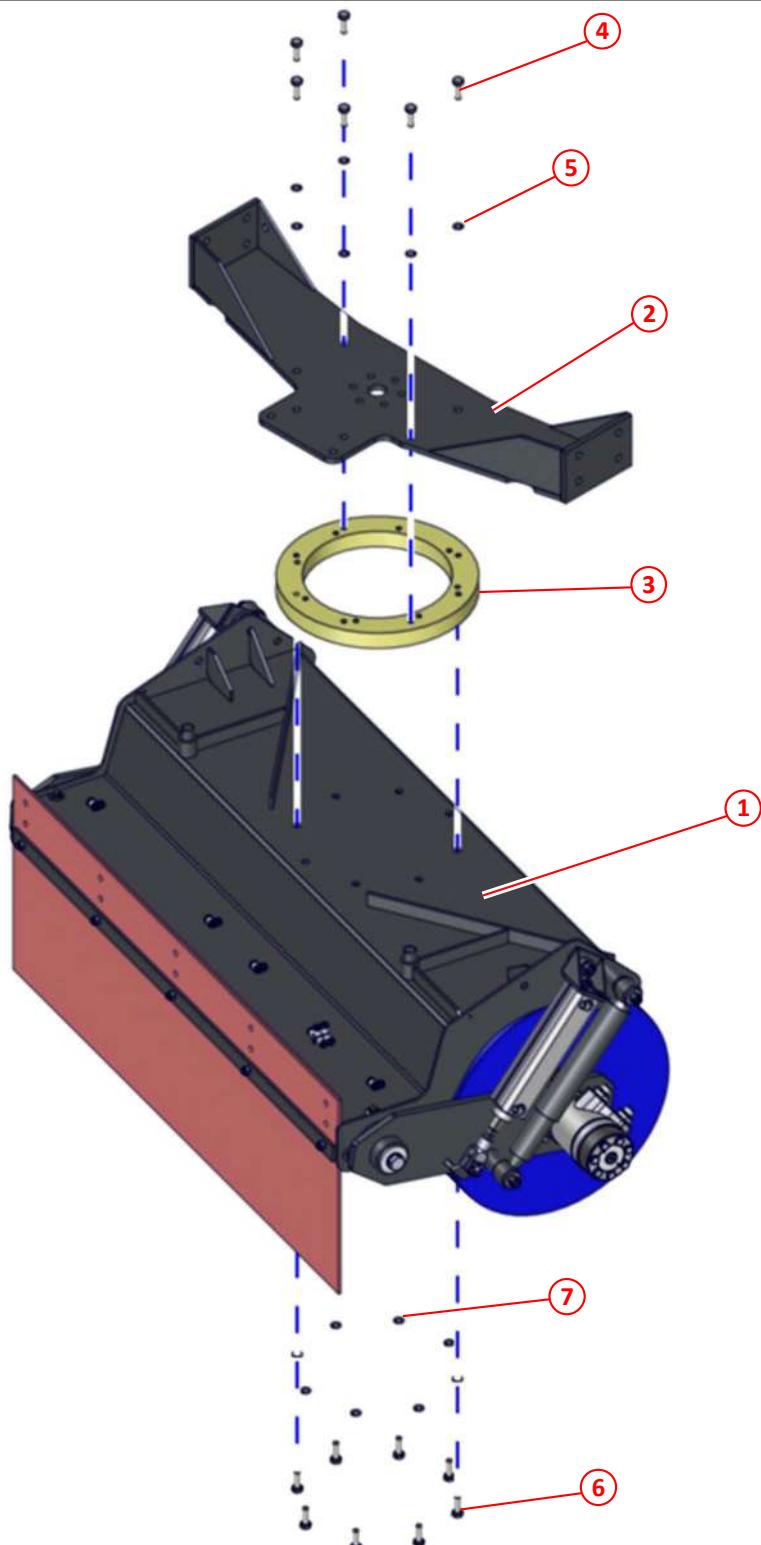


Figure 23: Central brush (wide sweep) support, fixed slew

Item	Part No	Qty	Description	
①			Central brush (wide sweep)	56
②	024155	1	Bracket, wide sweep support	46
③	020919	1	Adapter ring, fixed slew	
④	011032	6	Set screw M10 x 30	
⑤	011095	6	Spring washer M10	
⑥	011032	8	Set screw M10 x 30	
⑦	011095	8	Spring washer M10	

Central brush (wide sweep) dual sweep support slewing arrangement

Item	Part No	Qty	Description	
①			Central brush (wide sweep)	56
②	024155	1	Bracket, wide sweep support	46
③	011032	8	Set screw M10 x 30	
④	000183	6	Screw, socket, countersunk M10 x 65	
⑤	024151	1	Clamp plate wide sweep	
⑥	000167	6	Screw, countersunk, M10 x 40	
⑦	024154	1	Clamp ring wide sweep	
⑧	011075	8	Nyloc nut M10	
⑨	024149	1	Bearing, ball, ø100 x ø150 x 16 (16020)	
⑩	024148	1	Oil seal, ø120 x ø140 x 13	
⑪	024152	1	Bearing housing wide sweep	
⑫	024150	1	Spigot wide sweep	
⑬	011075	6	Nyloc nut M10	
⑭	013792	1	Grease nipple $\frac{1}{4}$ " BSP	
⑮	020767	1	Pneumatic cylinder 50 x 100, central brush (wide sweep) slew	308
⑯	036621	1	Clevis and pin, special	
⑰	023269	2	Safety fastener ø12	
⑱	036620	1	Mounting bracket, air ram, slewing central brush (wide sweep)	
⑲	011092	4	Plain washer M8	
⑳	011001	4	Set screw M6 x 16	
㉑	011122	1	Split pin $\frac{3}{16}$ " x $1\frac{1}{2}$ "	

Central brush (wide sweep) dual sweep support slewing arrangement

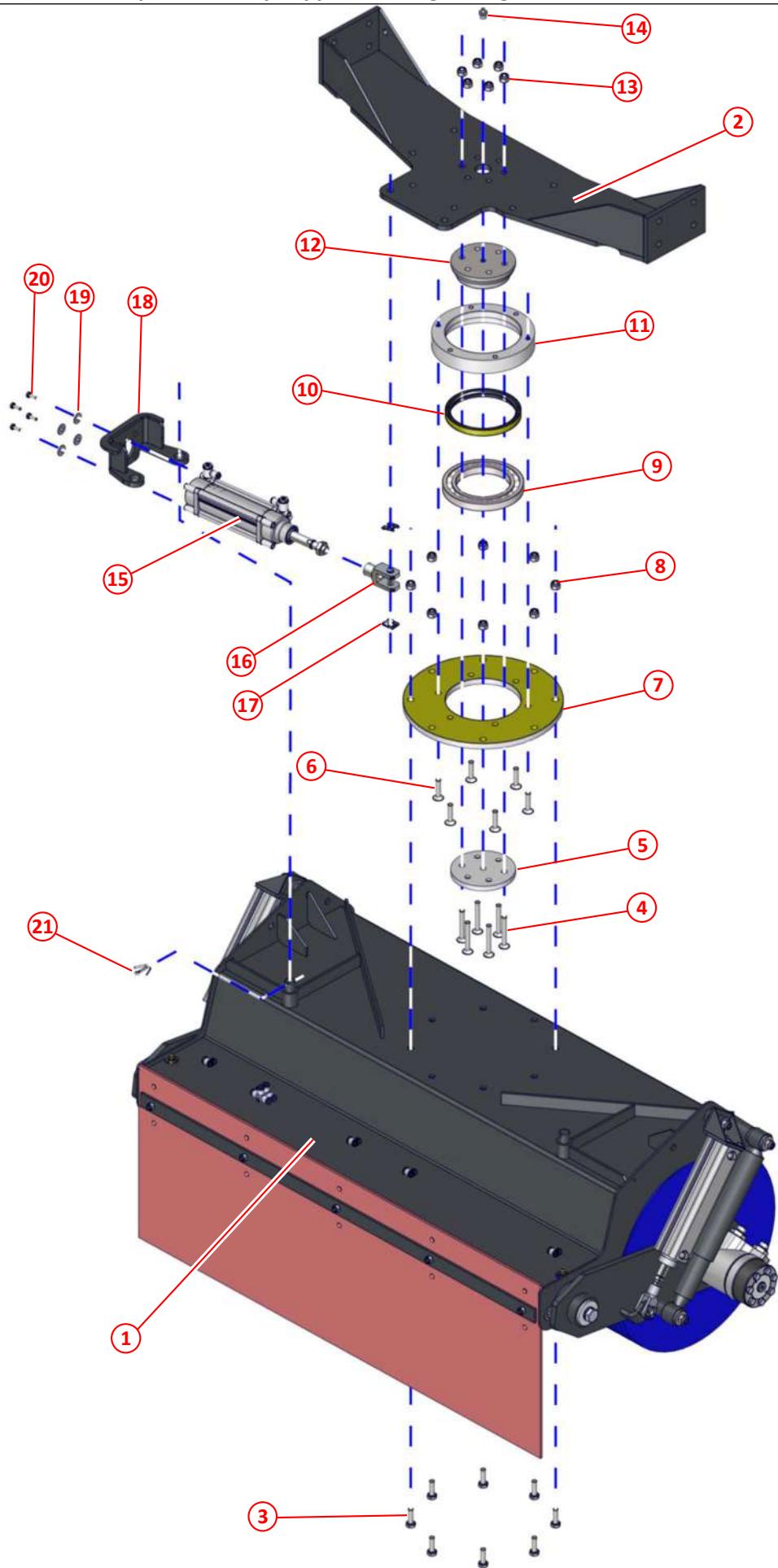
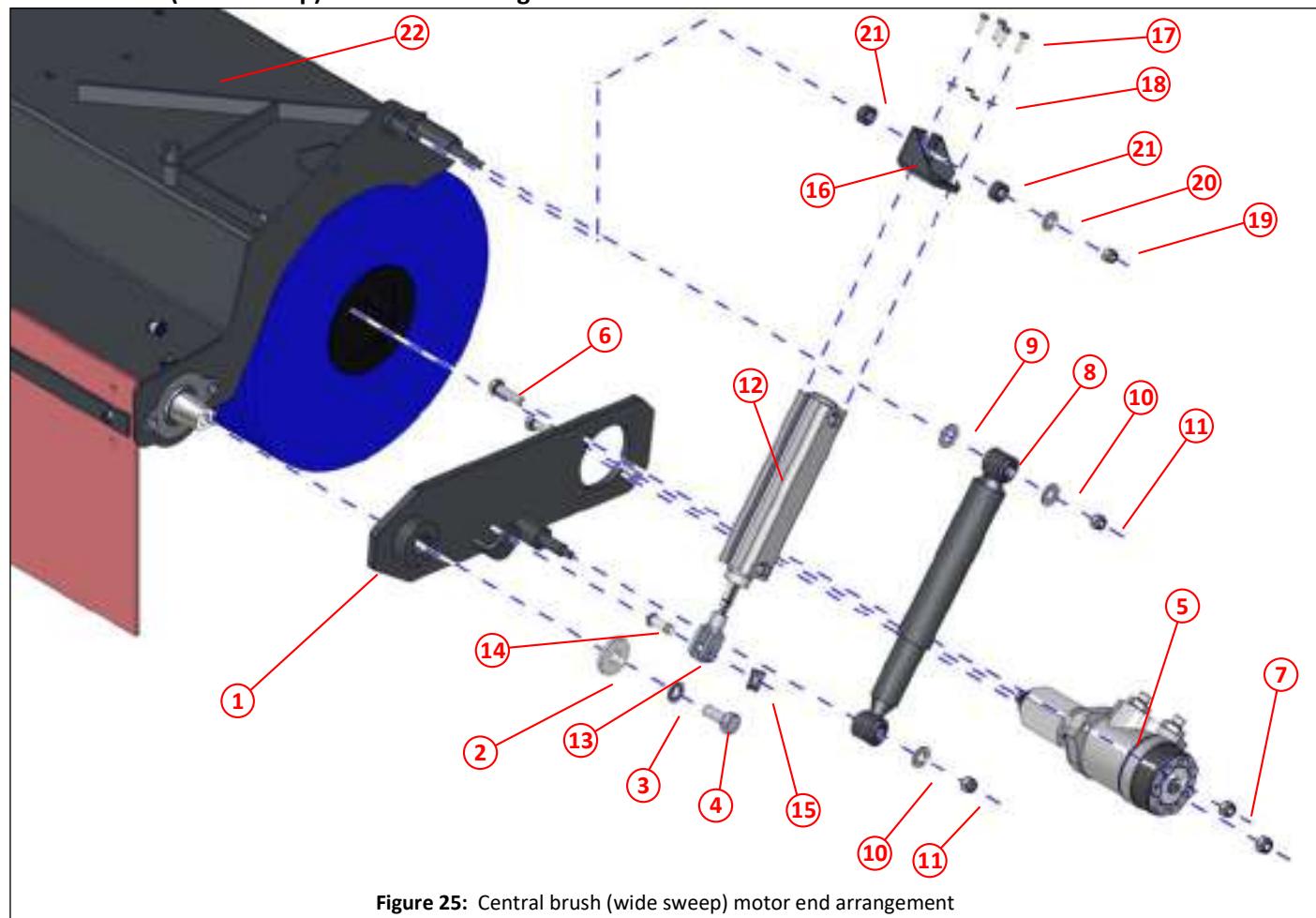
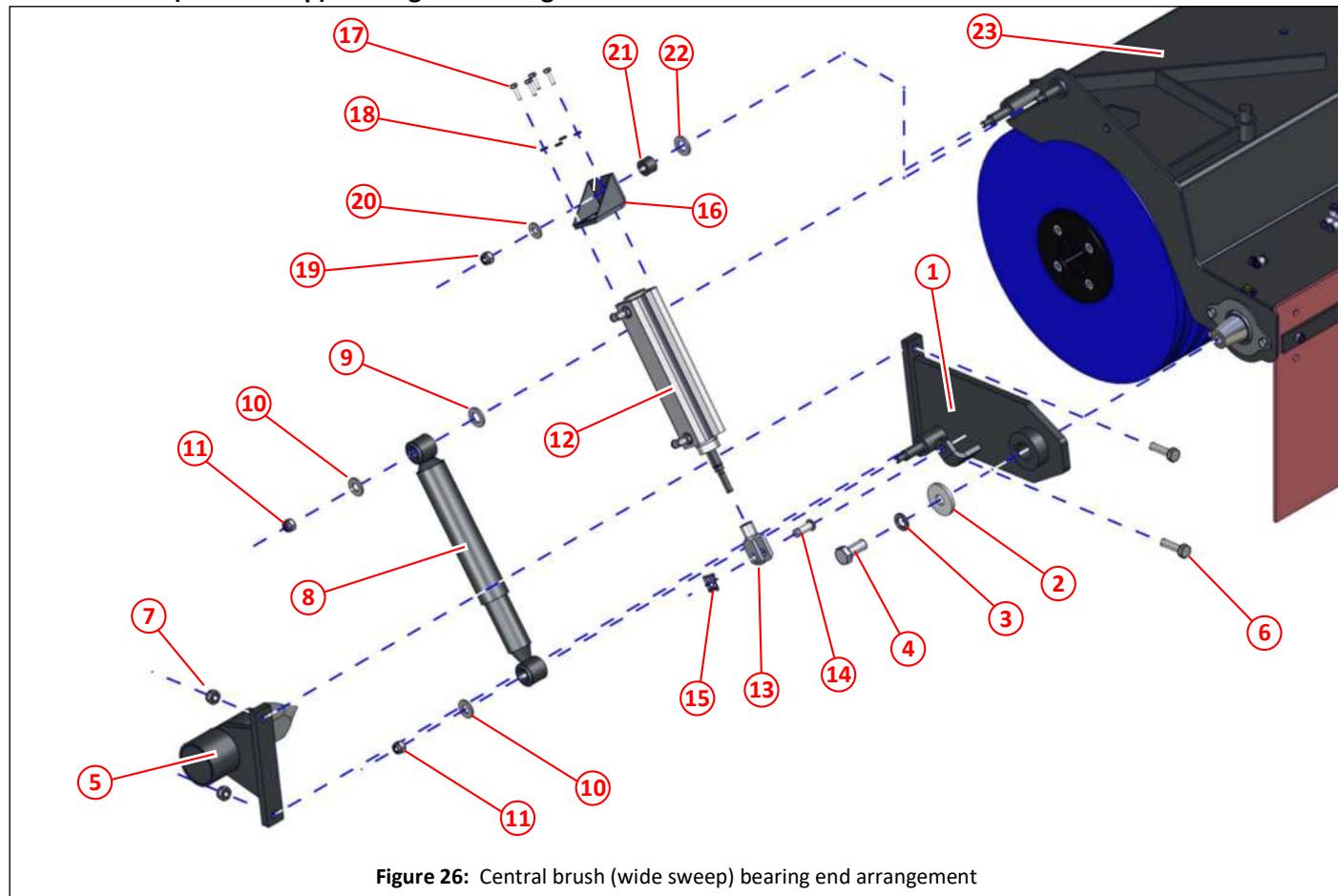


Figure 24: Central brush (wide sweep) dual sweep support slewing arrangement

Central brush (wide sweep) motor end arrangement

Figure 25: Central brush (wide sweep) motor end arrangement

Item	Part No	Qty	Description	
①	023077	1	Motor plate, left hand	
②	013439	1	Washer, ø16.5 x ø50 x 5	
③	011142	1	Spring washer M16	
④	011141	1	Bolt M16 x 35	
⑤			Motor and central brush drive assembly	53
⑥	011069	2	Bolt M12 x 40	
⑦	011077	2	Nyloc nut M12	
⑧	014063	1	Shock absorber 320/500	
⑨	011135	1	Plain washer M16	
⑩	011096	2	Plain washer M12	
⑪	011075	2	Nyloc nut M10	
⑫	020602	1	Pneumatic cylinder 40 x 125	307
⑬	014469	1	Clevis M12	
⑭	023270	1	Clevis pin 12	
⑮	023269	1	Safety fastener 12	
⑯	030532	1	Mounting bracket, pneumatic cylinder, central brush	
⑰	011067	4	Set screw M6 x 20x	
⑱	011091	4	Spring washer M6	
⑲	011075	1	Nyloc nut M10	
⑳	011094	1	Plain washer M10	
㉑	011000	2	Rubber spacer, 11mm long, ($\frac{5}{8}$ " hose)	
㉒			Central brush (wide sweep)	56

Central brush (wide sweep) bearing end arrangement



Item	Part No	Qty	Description	
①	023078	1	Motor plate, right hand	
②	013439	1	Washer, $\phi 16.5 \times \phi 50 \times 5$	
③	011142	1	Spring washer M16	
④	011141	1	Bolt M16 x 35	
⑤	024224	1	Bearing assembly	54
⑥	011069	2	Bolt M12 x 40	
⑦	011077	2	Nyloc nut M12	
⑧	014063	1	Shock absorber 320/500	
⑨	011135	1	Plain washer M16	
⑩	011096	2	Plain washer M12	
⑪	011075	2	Nyloc nut M10	
⑫	020602	1	Pneumatic cylinder 40 x 125	307
⑬	014469	1	Clevis M12	
⑭	023270	1	Clevis pin 12	
⑮	023269	1	Safety fastener 12	
⑯	030532	1	Mounting bracket, pneumatic cylinder, central brush	
⑰	011067	4	Set screw M6 x 20x	
⑱	011091	4	Spring washer M6	
⑲	011075	1	Nyloc nut M10	
⑳	011094	1	Plain washer M10	
㉑	011000	2	Rubber spacer, 11mm long, ($\frac{5}{8}$ " hose)	
㉒	011135	1	Plain washer M16	
㉓			Central brush (wide sweep)	56

Central brush (wide sweep) motor arrangement

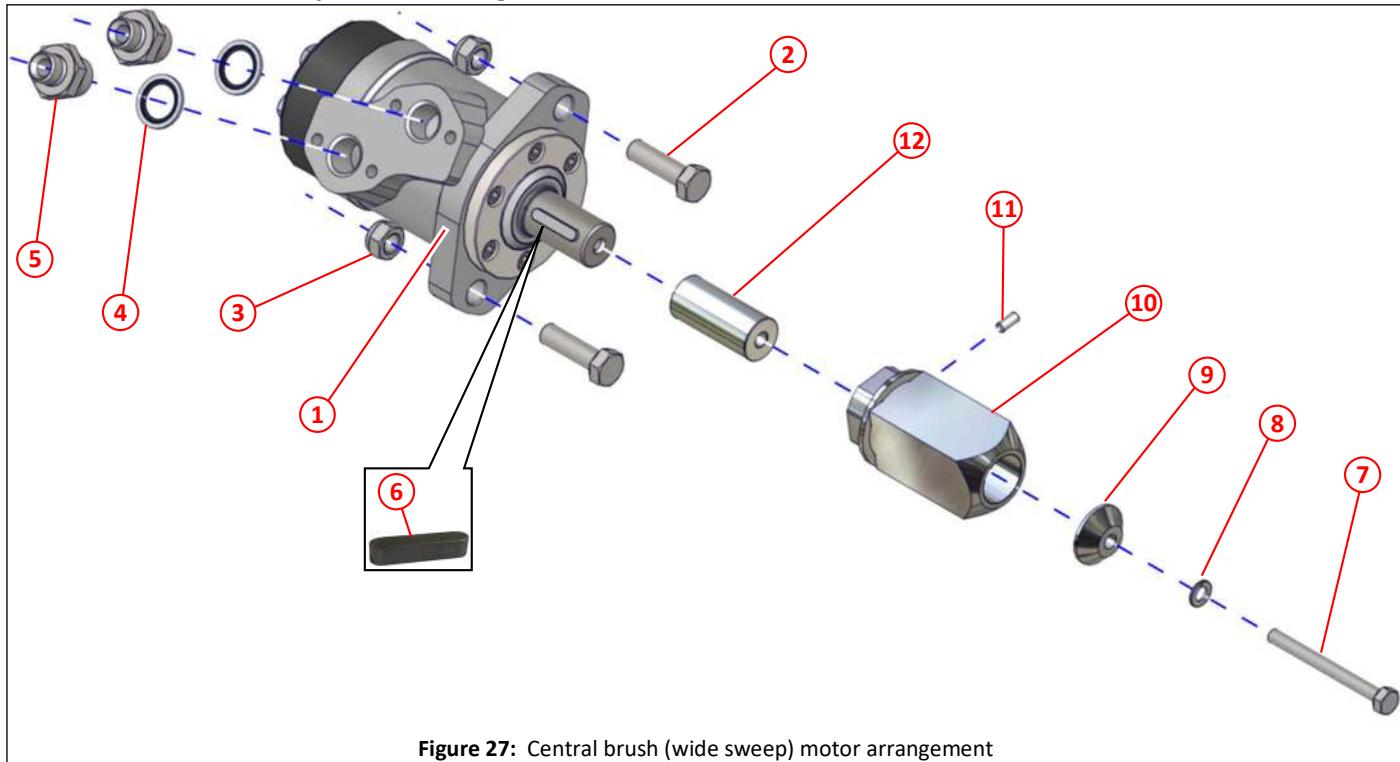


Figure 27: Central brush (wide sweep) motor arrangement

Item	Part No	Qty	Description	
①	010566	1	Motor, 3596 (OMP 100), central brush (wide sweep)	276
②	011069	2	Bolt M12 x 40	
③	011077	2	Nyloc nut M12	
④	011154	2	Dowty seal $\frac{1}{2}$ " BSP	
⑤	011167	2	Adapter $\frac{1}{2}$ " x $\frac{3}{8}$ " BSP	
⑥	011515	1	Key for motor	
⑦	011415	1	Bolt M8 x 80	
⑧	011093	1	Spring washer M8	
⑨	024538	1	Washer cone	
⑩	024535	1	Drive shaft, central brush (wide sweep)	
⑪	011112	1	Socket set screw M6 x 12	
⑫	038106	1	Spacer $\varnothing 8.5 \times \varnothing 25 \times 55$	

Central brush (wide sweep) bearing arrangement

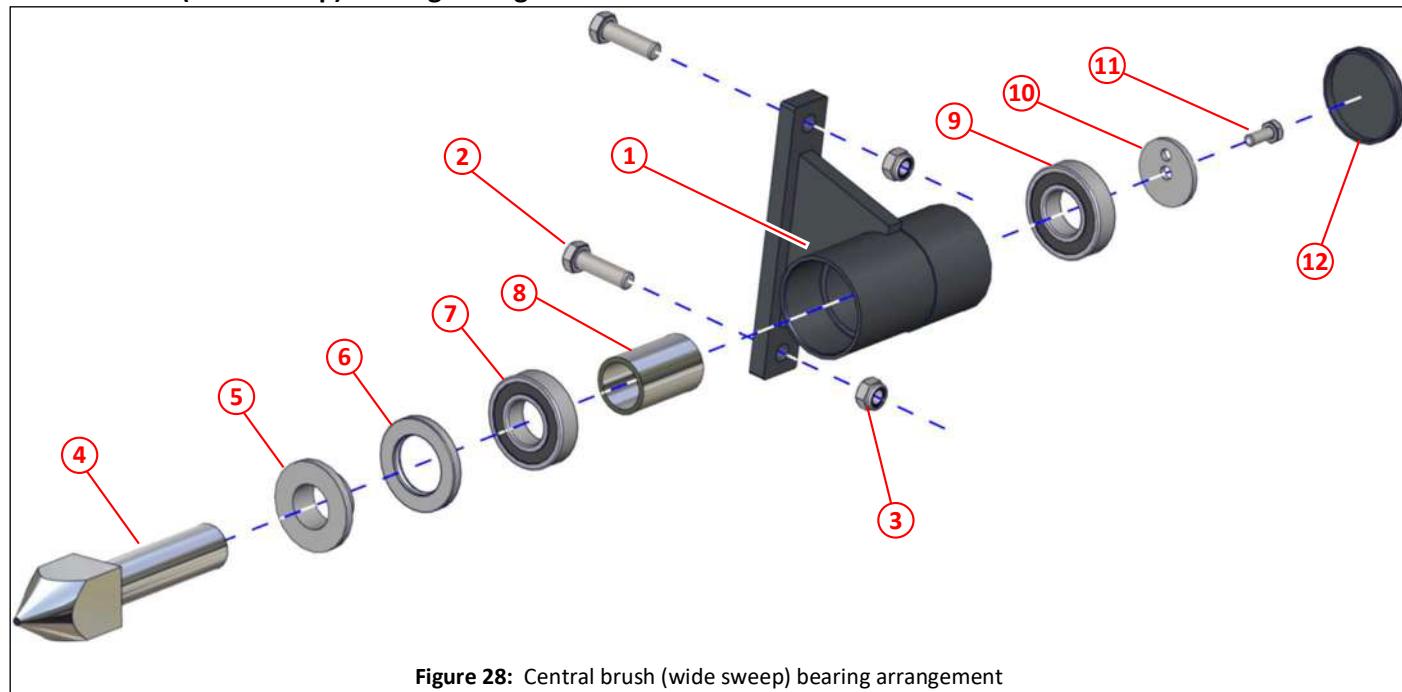
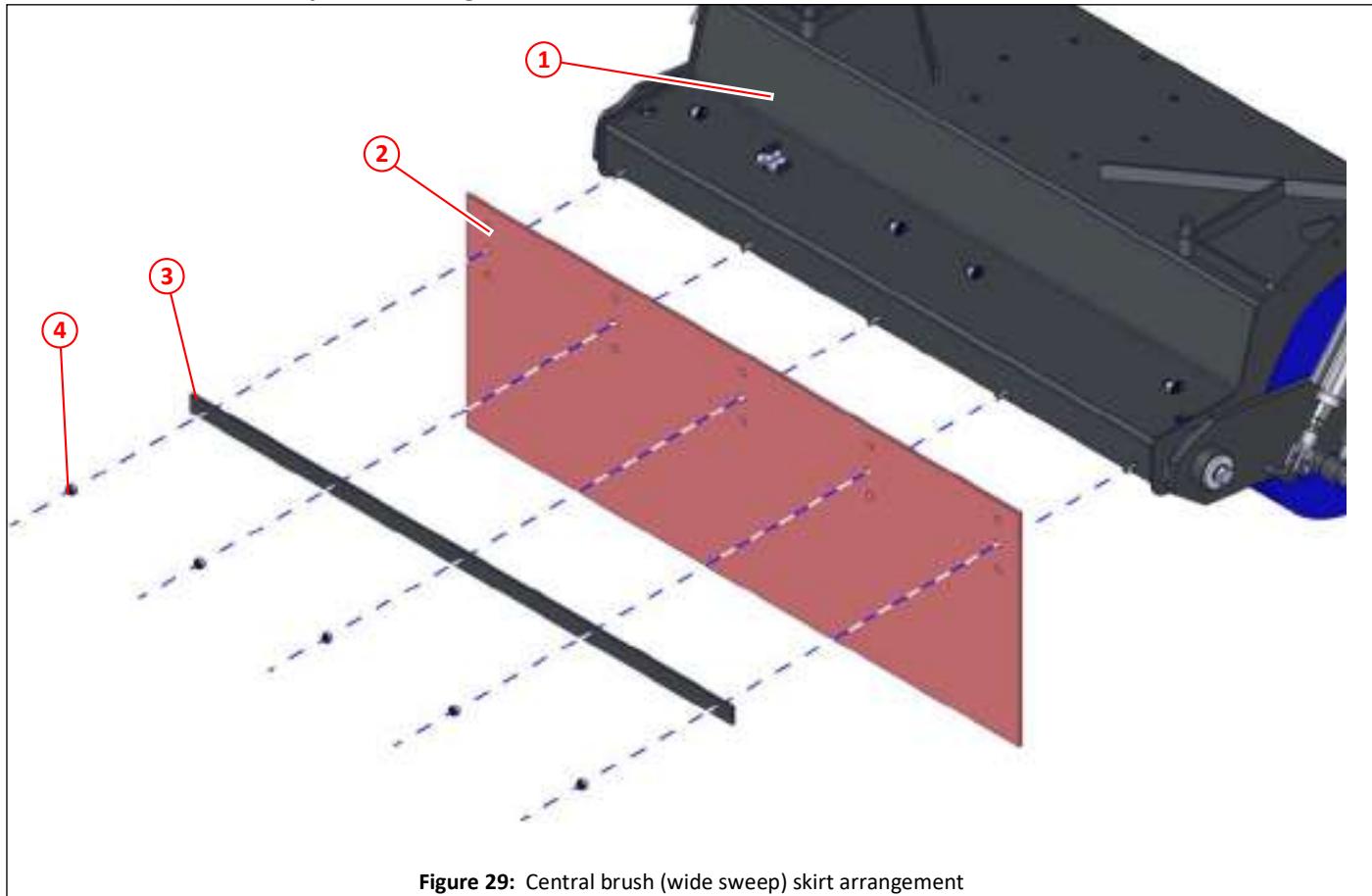


Figure 28: Central brush (wide sweep) bearing arrangement

Item	Part No	Qty	Description
①	024219	1	Bearing housing, central brush (wide sweep)
②	011069	2	Bolt M12 x 40
③	011077	2	Nyloc nut M12
④	024223	1	Shaft, central brush (wide sweep)
⑤	024221	1	Spacer ø30 x ø60 x 20, special
⑥	024220	1	Oil seal ø38 x ø62 x 7
⑦	010578	1	Bearing, ball, 6206 2Z
⑧	024531	1	Spacer ø31 x ø38 x 58
⑨	010578	1	Bearing, ball, 6206 2Z
⑩	010004	1	Washer ø9 x ø45 x 4
⑪	011010	1	Set screw M8 x 20
⑫	024222	1	Bearing cap, central brush (wide sweep)

Central brush (wide sweep) skirt arrangement

Figure 29: Central brush (wide sweep) skirt arrangement

Item	Part No	Qty	Description	
①			Central brush (wide sweep)	56
②	022516	1	Skirt, central brush (wide sweep)	
③	022517	1	Clamp, skirt, central brush (wide sweep)	
④	011073	5	Nyloc nut M8	

Central brush (wide sweep) cover and shaft arrangement

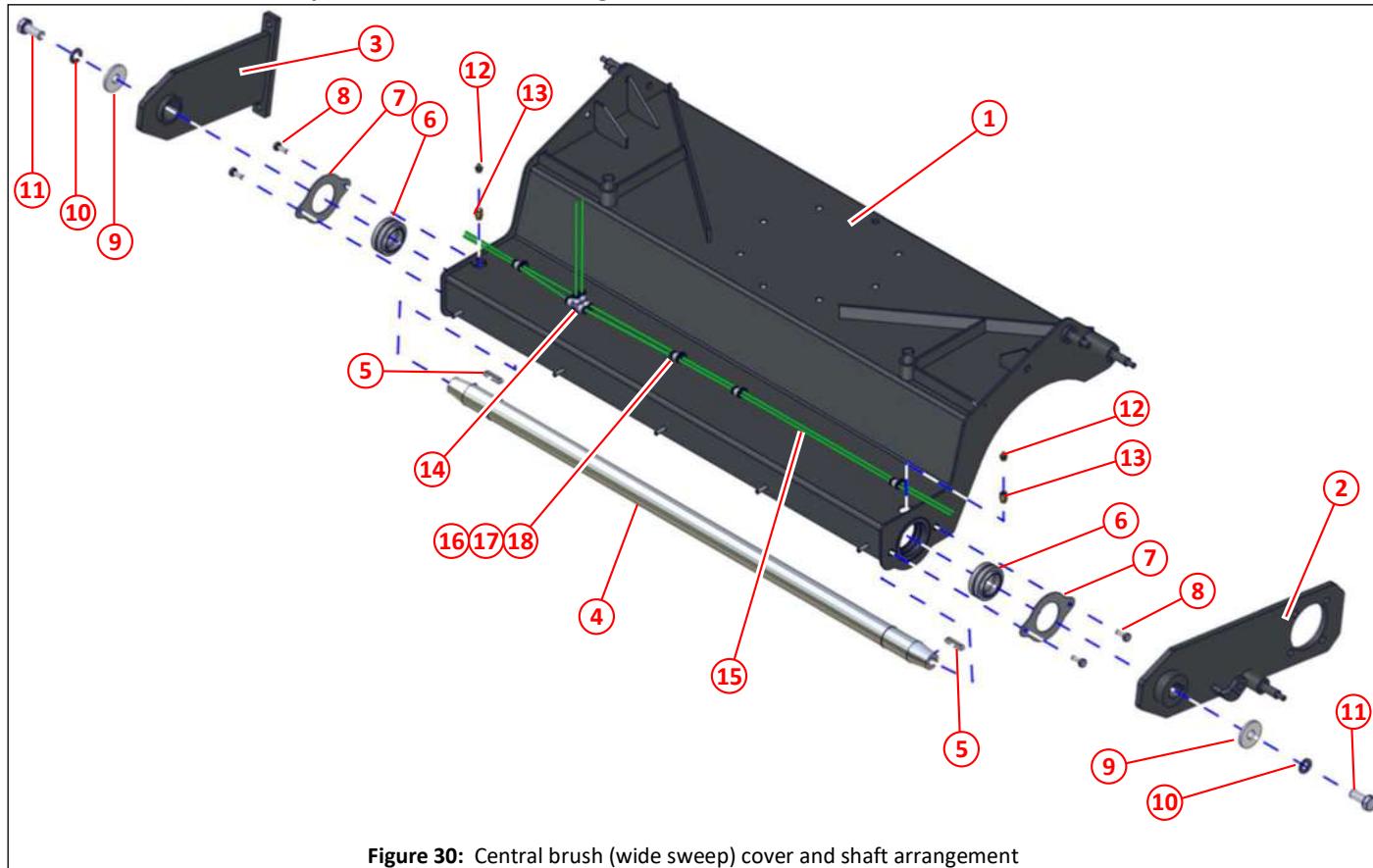


Figure 30: Central brush (wide sweep) cover and shaft arrangement

Item	Part No	Qty	Description
①	036216	1	Cover, central brush (wide sweep)
②	023077	1	Motor plate, left hand
③	023078	1	Motor plate, right hand
④	023080	1	Shaft taper
⑤	013292	2	Key for shaft taper
⑥	036789	2	Spherical bearing
⑦	037172	2	Retaining plate, spherical bearing
⑧	011010	4	Set screw M8 x 20
⑨	013439	2	Washer, ø16.5 x ø50 x 5
⑩	011142	2	Spring washer M16
⑪	011141	1	Bolt M16 x 35
⑫	010903	2	Grease nipple, straight, 1/8" BSP
⑬	040301	2	Grease nipple extension 1/8" BSP
⑭	024647	2	Tee grey, 6mm, (pneumatics)
⑮	024650	As req	Air pipe, ø6, green
⑯	021914	4	P-clip ø12, rubber sealed
⑰	000234	4	Pan head, Pozidrive, chamfered, set screw M5 x 16, black
⑱	000155	4	Nyloc nut M5

Central brush (wide sweep), brush and brush core arrangement

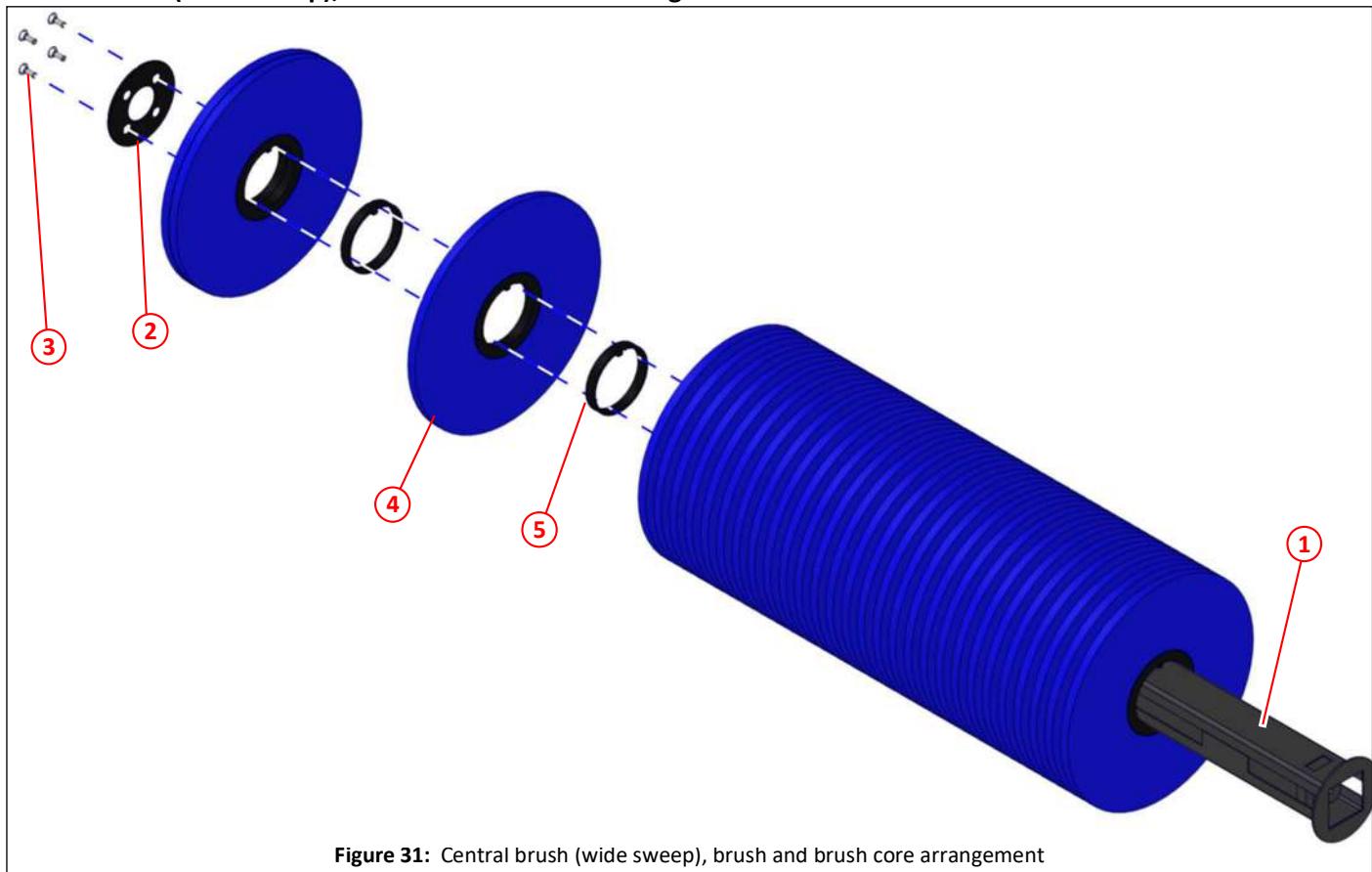


Figure 31: Central brush (wide sweep), brush and brush core arrangement

Item	Part No	Qty	Description
①	13646	1	Brush core
②	13649	1	End cap, brush core
③	011417	4	Socket cap screw $\frac{3}{8}$ " UNC x 1"
④	023474	31	Brush fill, ϕ 400, poly
⑤	023472	29	Brush spacer
NI	023474	1	Box of 44 brush fill, ϕ 400, poly
NI	037588	1	Brush core assembly, items ① to ⑤

Central brush (wide sweep) extended, general arrangement

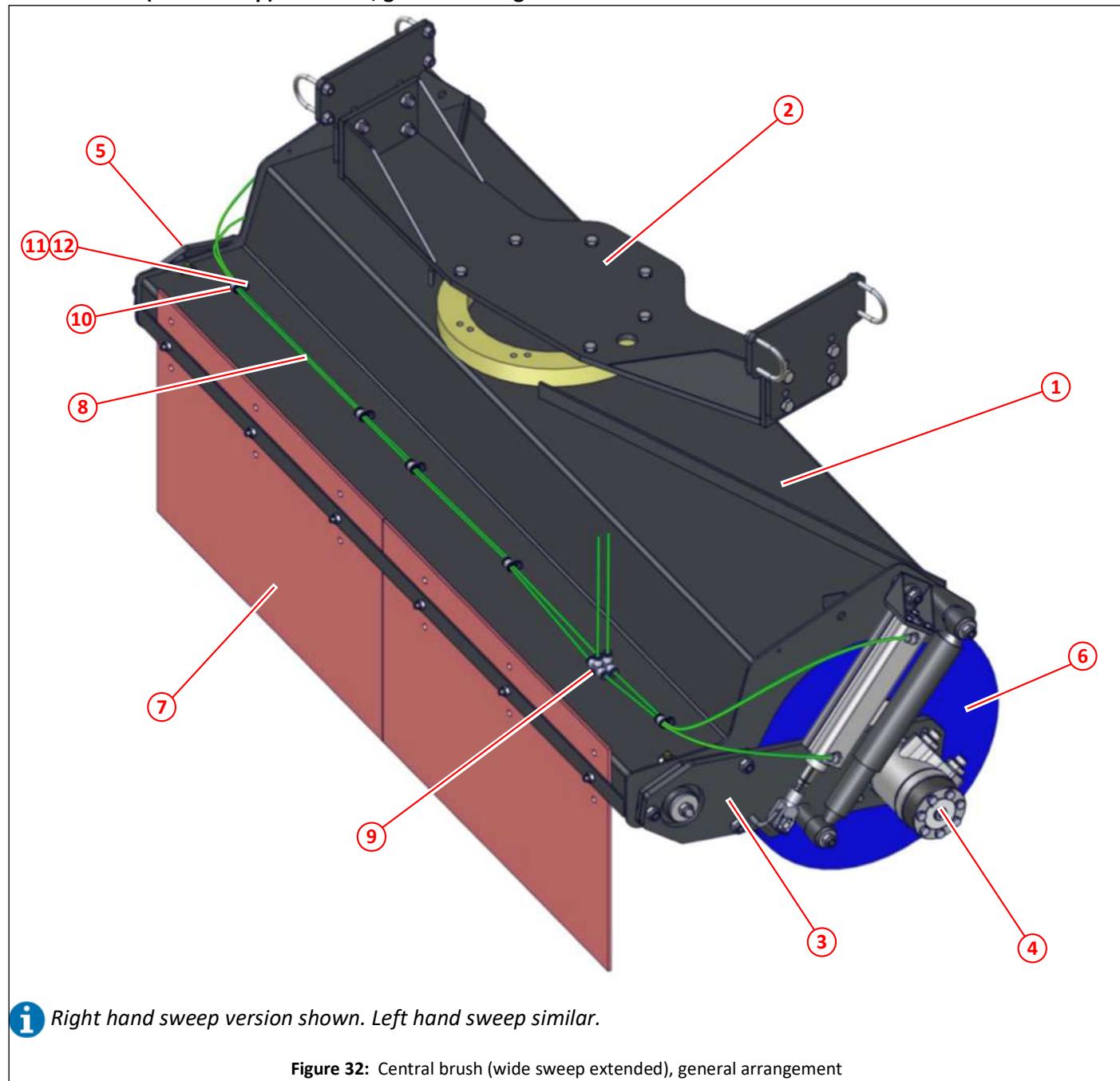
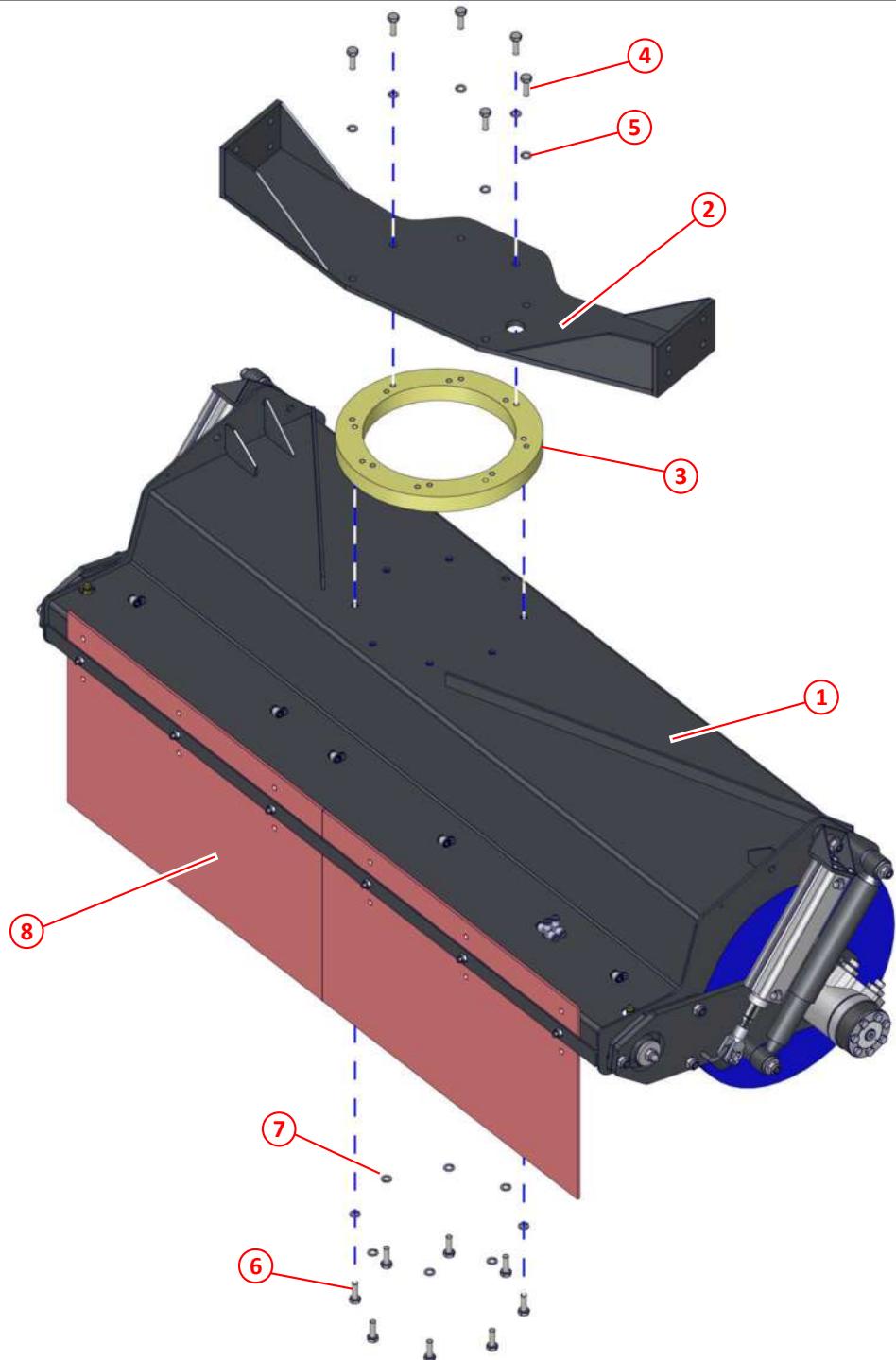


Figure 32: Central brush (wide sweep extended), general arrangement

Item	Part No	Qty	Description	
①	037176	1	Cover, central brush (wide sweep) extended 1300 wide, right hand sweep	65
NI	037174	1	Cover, central brush (wide sweep) extended 1300 wide, left hand sweep	65
②	020516	1	Bracket, wide sweep support	
③		1	Motor end assembly	60
④		1	Motor assembly	62
⑤		1	Bearing end assembly	61
⑥		1	Central brush (wide sweep) and brush core extended assembly	66
⑦			Skirt, central brush (wide sweep) extended	64
⑧	024650	As req	Air pipe, Ø6, green	
⑨	024647	2	Tee grey, 6mm, (pneumatics)	
⑩	021914	5	P-clip Ø12, rubber sealed	
⑪	000234	5	Pan head, Pozidrive, chamfered, set screw M5 x 16, black	
⑫	000155	5	Nyloc nut M5	

Central brush (wide sweep) extended, support


i Right hand sweep version shown. Left hand sweep similar.

Figure 33: Central brush (wide sweep) Extended, support

Item	Part No	Qty	Description	
(1)			Central brush (wide sweep) extended	58,65
(2)	020516	1	Bracket, wide sweep support	
(3)	020919	1	Adapter ring, fixed slew	
(4)	011032	6	Set screw M10 x 30	
(5)	011095	6	Spring washer M10	
(6)	011032	8	Set screw M10 x 30	
(7)	011095	8	Spring washer M10	
			Skirt, central brush (wide sweep) extended	64

Central brush (wide sweep) extended, motor end arrangement

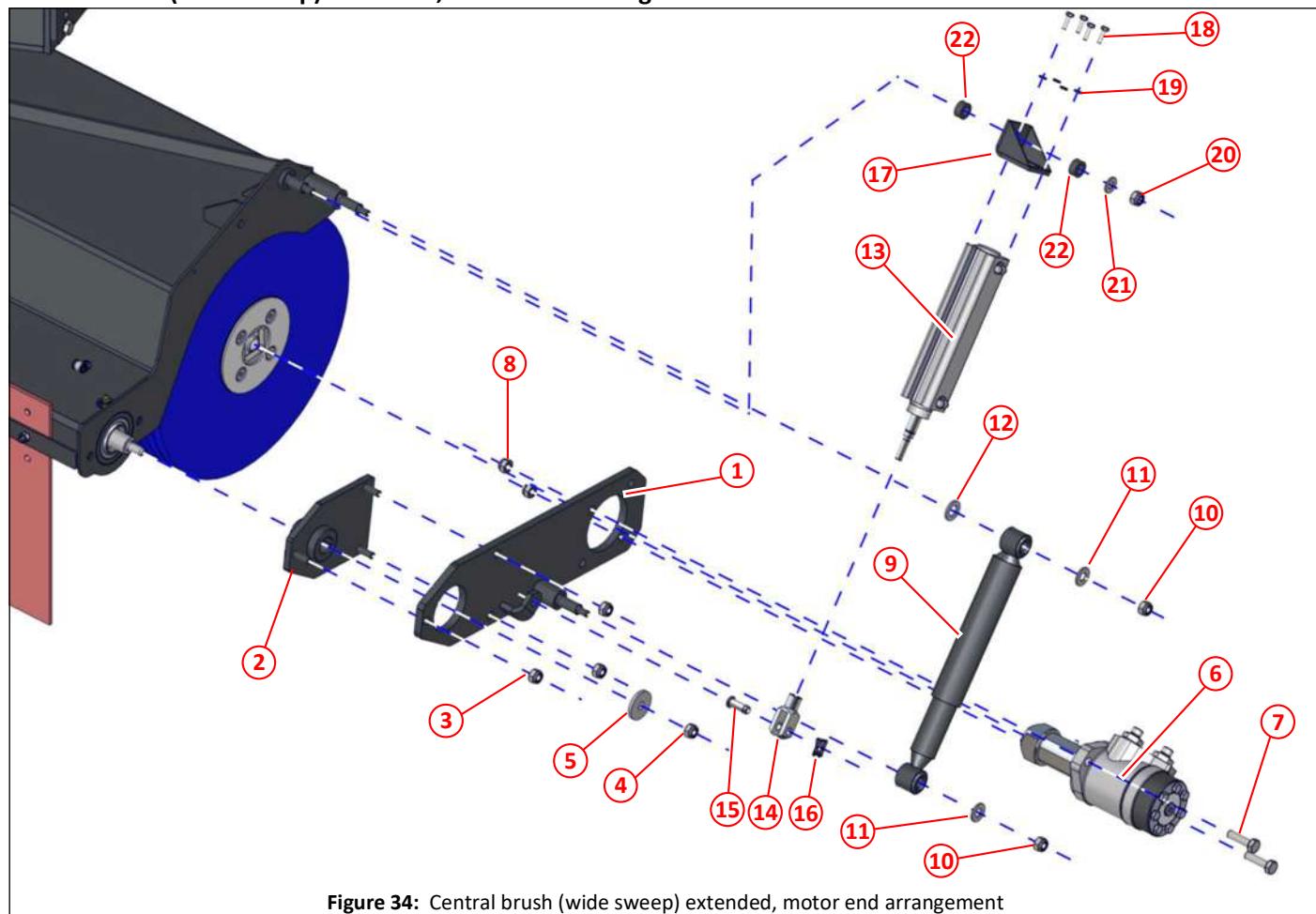
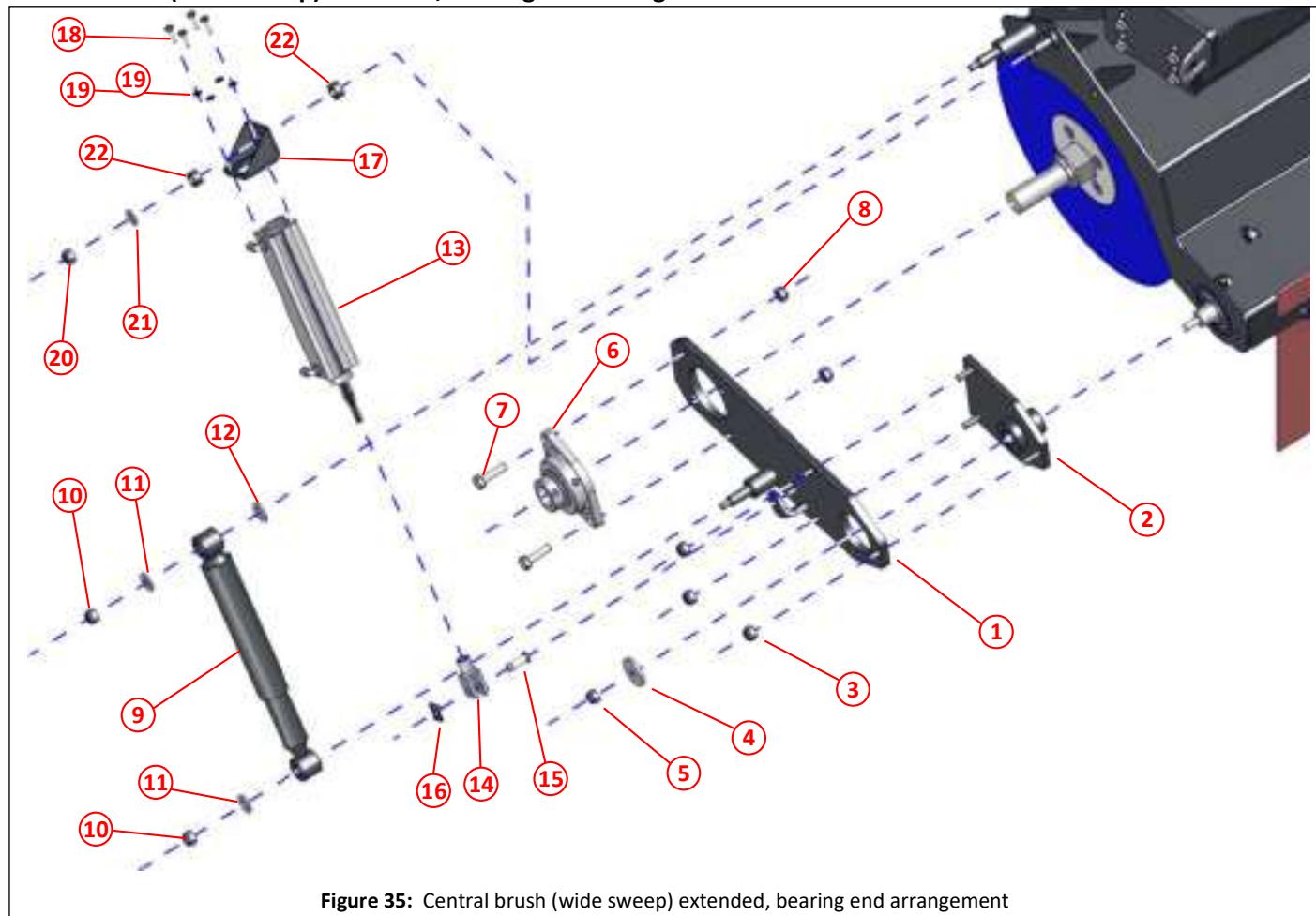


Figure 34: Central brush (wide sweep) extended, motor end arrangement

Item	Part No	Qty	Description	
①	022401	1	Motor plate, left side	
②	020727	1	Flange	
③	011075	3	Nyloc nut M10	
④	011077	1	Nyloc nut M12	
⑤	020707	1	Washer ø12.5 x ø44 x 5	
⑥			Motor assembly	62
⑦	011069	2	Bolt M12 x 40	
⑧	011077	1	Nyloc nut M12	
⑨	014063	1	Shock absorber	
⑩	011075	2	Nyloc nut M10	
⑪	011096	2	Plain washer M12	
⑫	011135	1	Plain washer M16	
⑬	020602	1	Pneumatic cylinder 40 x 125	307
⑭	014469	1	Clevis M12	
⑮	023270	1	Clevis pin 12	
⑯	023269	1	Safety fastener 12	
⑰	030532	1	Mounting bracket, pneumatic cylinder, central brush	
⑱	011067	4	Set screw M6 x 20x	
⑲	011091	4	Spring washer M6	
⑳	011075	1	Nyloc nut M10	
㉑	011094	1	Plain washer M10	
㉒	011000	2	Rubber spacer, 11mm long, ($\frac{5}{8}$ " hose)	

Central brush (wide sweep) extended, bearing end arrangement

Figure 35: Central brush (wide sweep) extended, bearing end arrangement

Item	Part No	Qty	Description	
①	022400	1	Motor plate, right side	
②	020727	1	Flange	
③	011075	3	Nyloc nut M10	
④	011077	1	Nyloc nut M12	
⑤	020707	1	Washer ø12.5 x ø44 x 5	
⑥	010612	1	Bearing, extended central brush (wide sweep)	
⑦	011069	2	Bolt M12 x 40	
⑧	011077	1	Nyloc nut M12	
⑨	014063	1	Shock absorber	
⑩	011075	2	Nyloc nut M10	
⑪	011096	2	Plain washer M12	
⑫	011135	1	Plain washer M16	
⑬	020602	1	Pneumatic cylinder 40 x 125	307
⑭	014469	1	Clevis M12	
⑮	023270	1	Clevis pin 12	
⑯	023269	1	Safety fastener 12	
⑰	030532	1	Mounting bracket, pneumatic cylinder, central brush	
⑱	011067	4	Set screw M6 x 20x	
⑲	011091	4	Spring washer M6	
⑳	011075	1	Nyloc nut M10	
㉑	011094	1	Plain washer M10	
㉒	011000	2	Rubber spacer, 11mm long, ($\frac{5}{8}$ " hose)	

Central brush (wide sweep) extended, motor arrangement

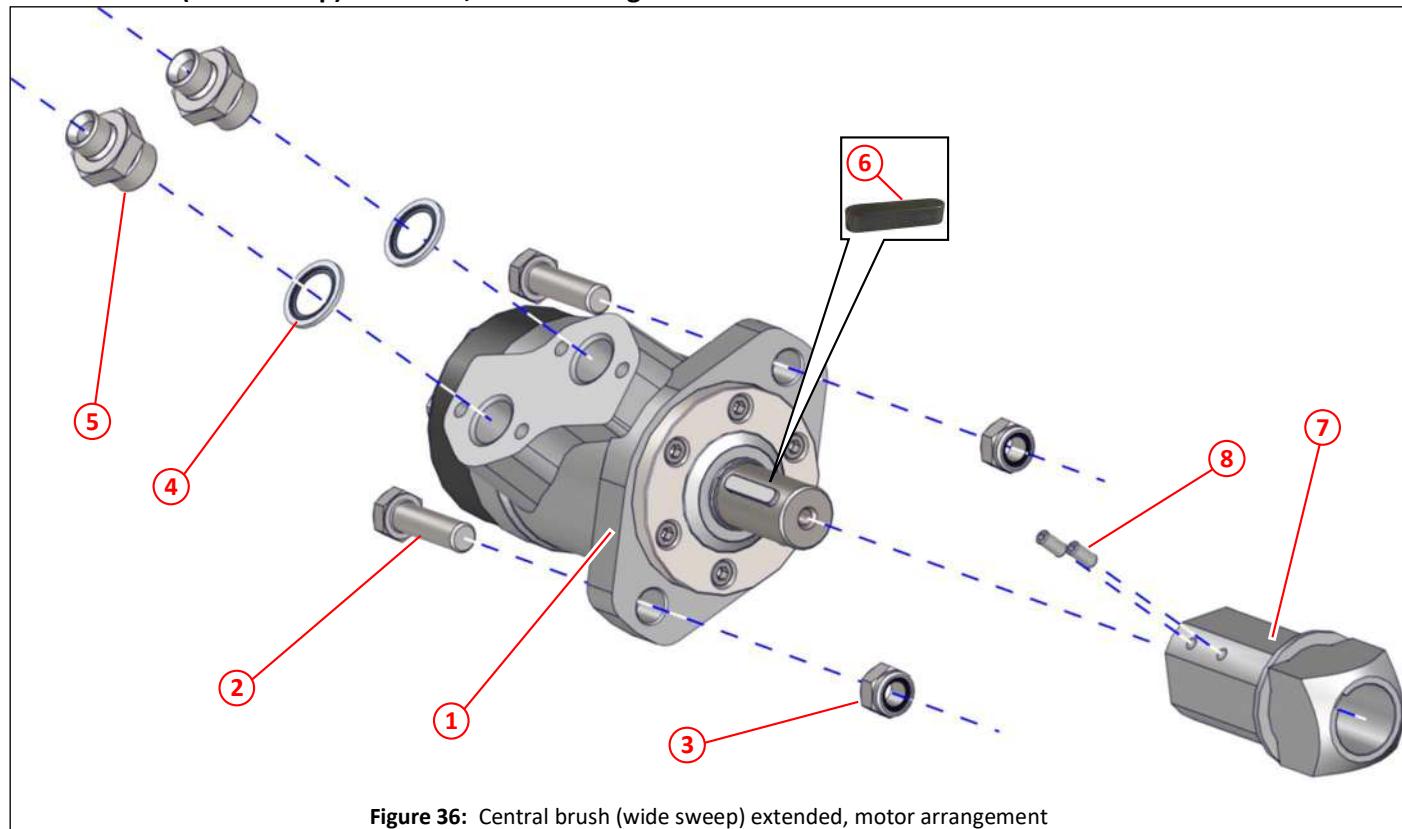


Figure 36: Central brush (wide sweep) extended, motor arrangement

Item	Part No	Qty	Description	
①	010566	1	Motor 3596 (OMP 100)	53, 276
②	011069	2	Bolt M12 x 40	
③	011077	2	Nyloc nut M12	
④	011154	2	Dowty seal 1/2" BSP	
⑤	011167	2	Adapter 1 1/2" x 3/8" BSP	
⑥	011515	1	Key for motor	
⑦	013648	1	Drive shaft	
⑧	011112	2	Socket set screw M6 x 12	

Central brush (wide sweep) extended, bearing arrangement

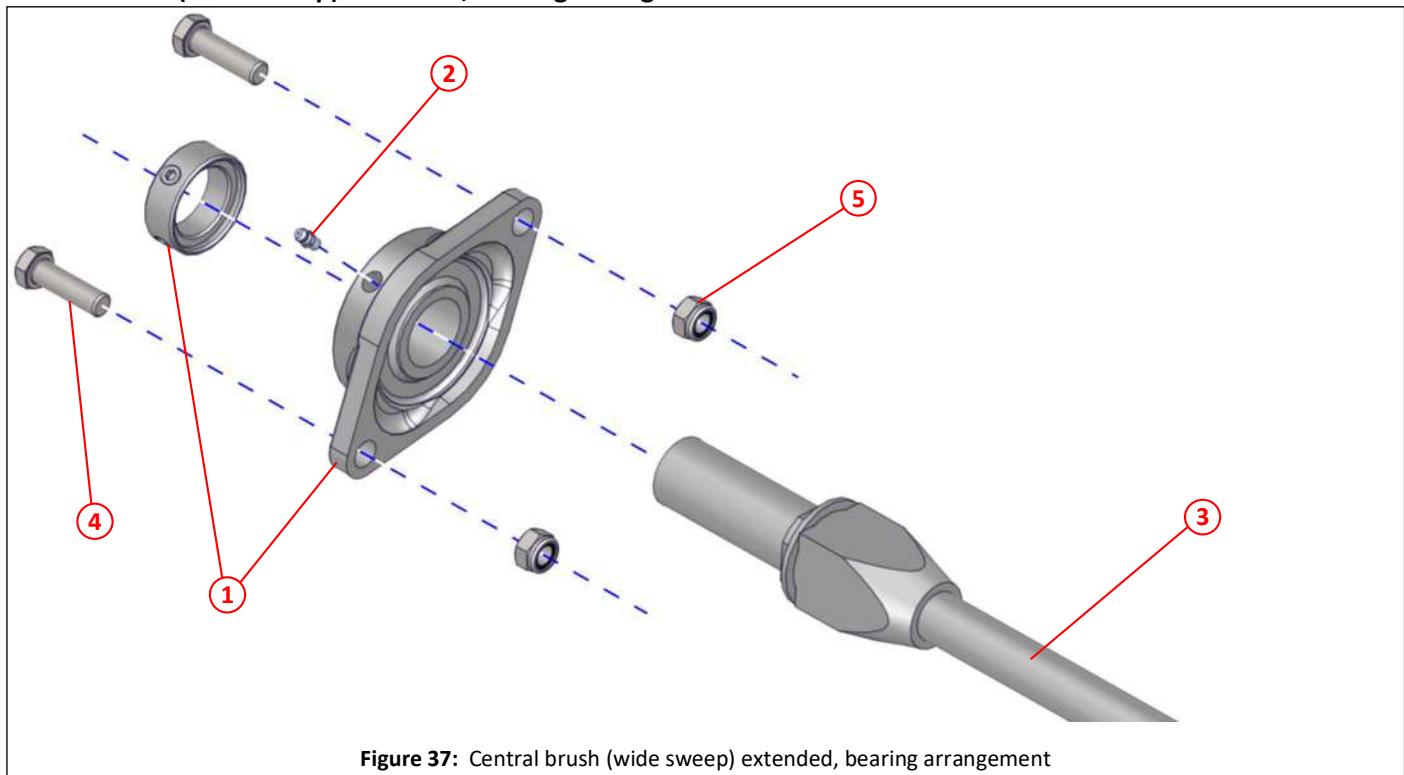
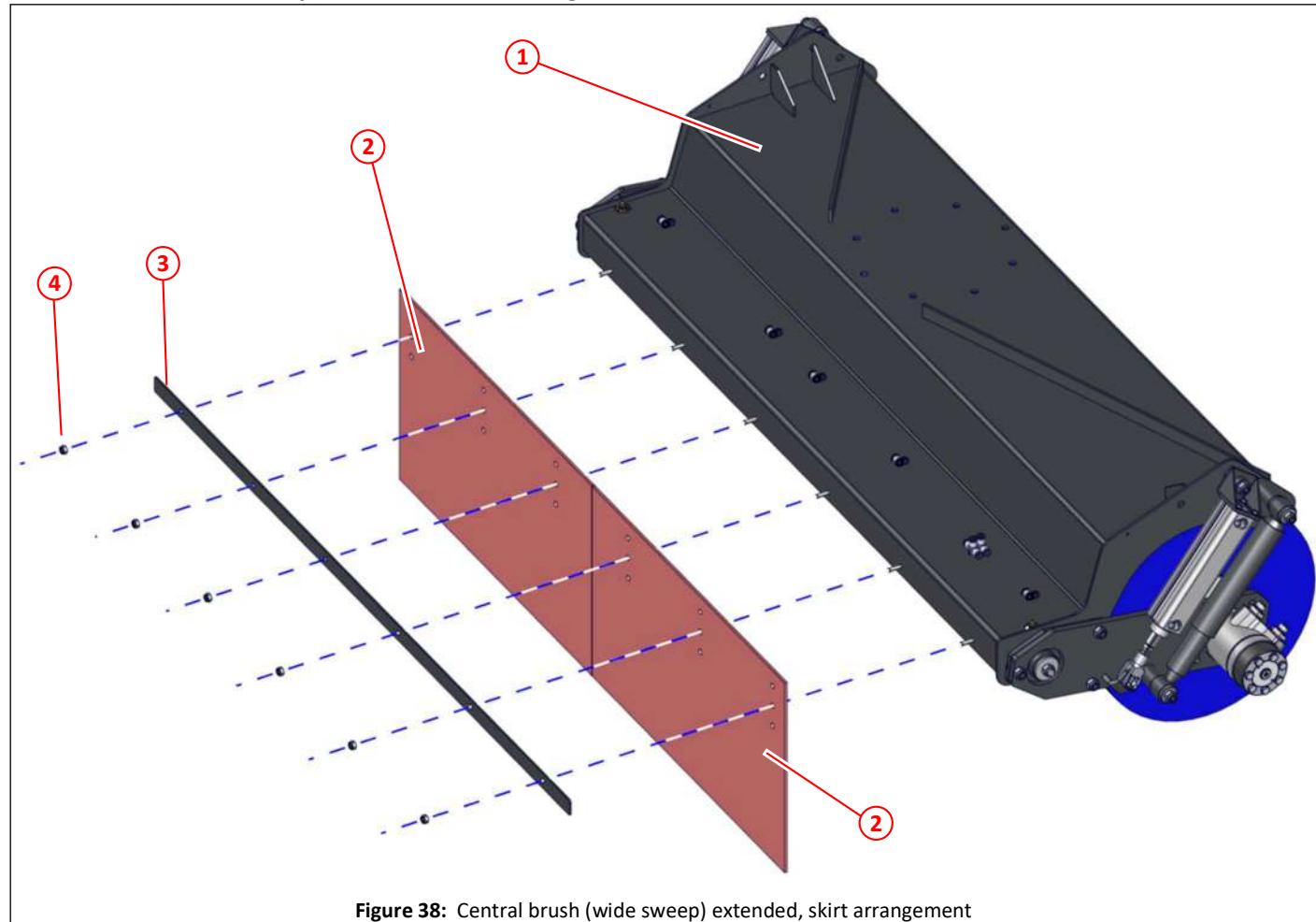


Figure 37: Central brush (wide sweep) extended, bearing arrangement

Item	Part No	Qty	Description
①	010612	1	Bearing, central brush (wide sweep) extended. Includes locking collar and item ②
②	043059	1	Grease nipple M6 Straight
③	021296	1	Drive tube extended
④	011069	2	Bolt M12 x 40
⑤	011077	2	Nyloc nut M12

Central brush (wide sweep) extended, skirt arrangement



Item	Part No	Qty	Description	
①			Central brush (wide sweep) extended	58,65
②	022516	2	Skirt, central brush (wide sweep)	
③	024059	1	Clamp, skirt, central brush (wide sweep) extended	
④	011073	6	Nyloc nut M8	

Central brush (wide sweep) extended cover and shaft

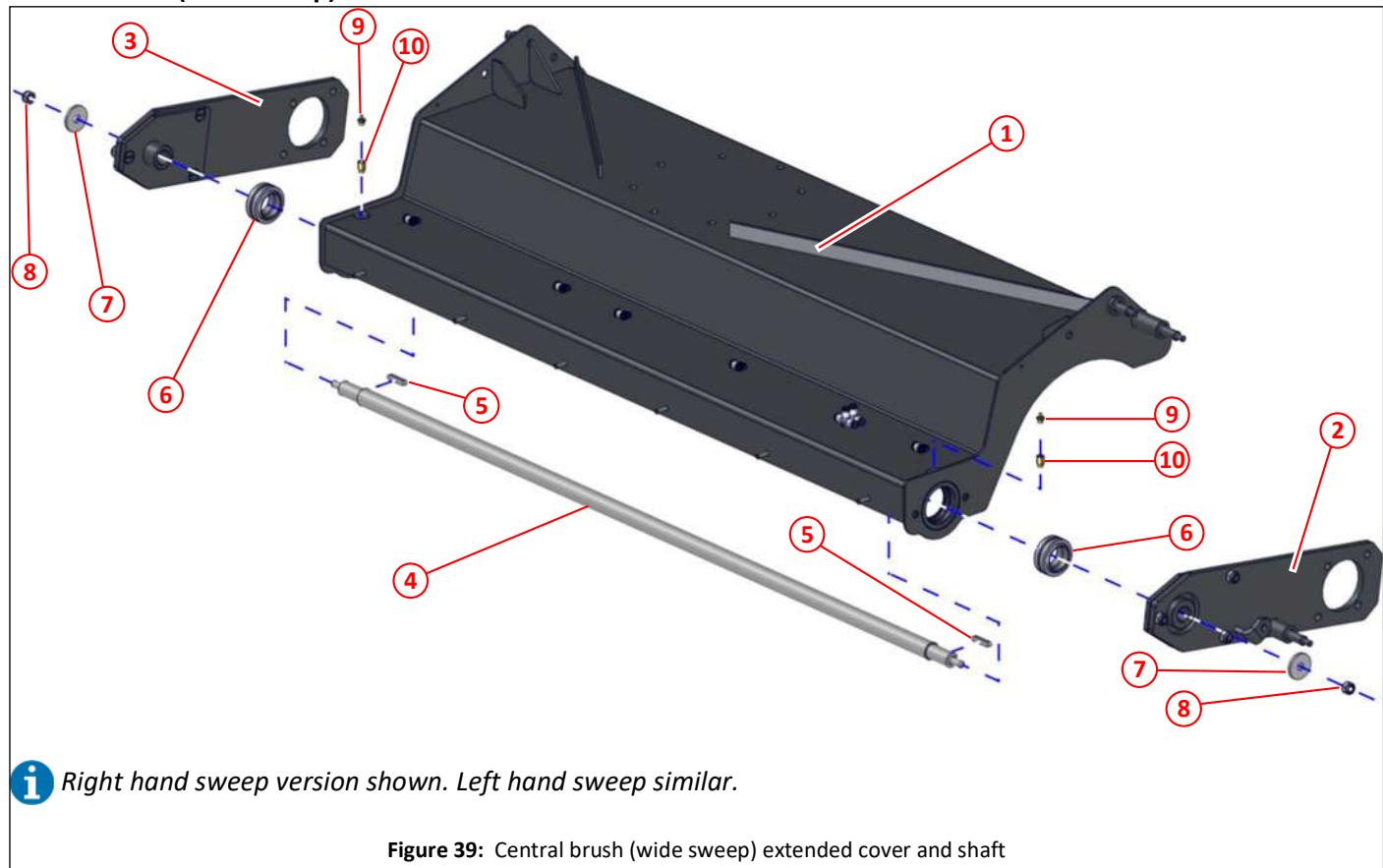


Figure 39: Central brush (wide sweep) extended cover and shaft

Item	Part No	Qty	Description
①	037176	1	Cover, central brush (wide sweep) extended 1300 wide, right hand sweep
NI	037174	1	Cover, central brush (wide sweep) extended 1300 wide, left hand sweep
②	022401	1	Motor plate, left side
③	022400	1	Motor plate, right side
④	024015	1	Shaft, central brush (wide sweep) extended 1300 wide
⑤	013292	2	Key for shaft
⑥	036789	2	Spherical bearing
⑦	020707	1	Washer ø12.5 x ø44 x 5
⑧	011077	1	Nyloc nut M12
⑨	010903	2	Grease nipple, straight, $\frac{1}{8}$ " BSP
⑩	040301	2	Grease nipple extension $\frac{1}{8}$ " BSP
⑪	021914	5	P-clip ø12, rubber sealed
⑫	000234	5	Pan head, Pozidrive, chamfered, set screw M5 x 16, black
⑬	000155	5	Nyloc nut M5

Central brush (wide sweep) extended, brush core and shaft

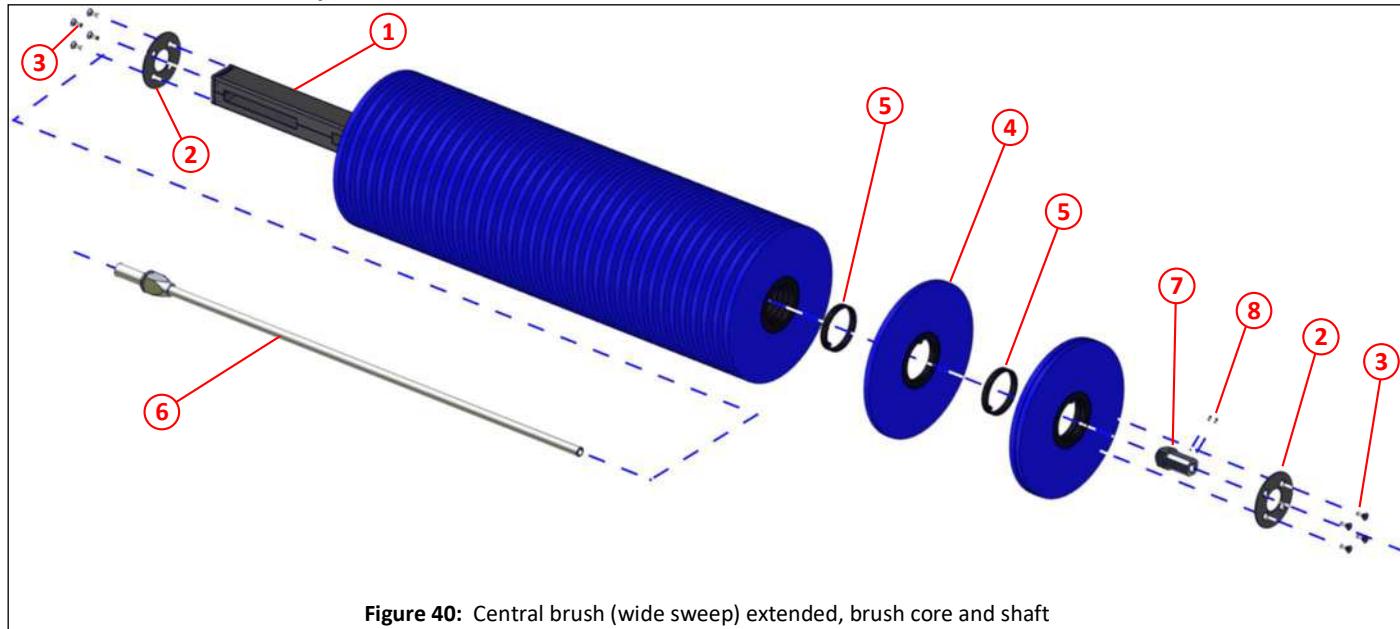
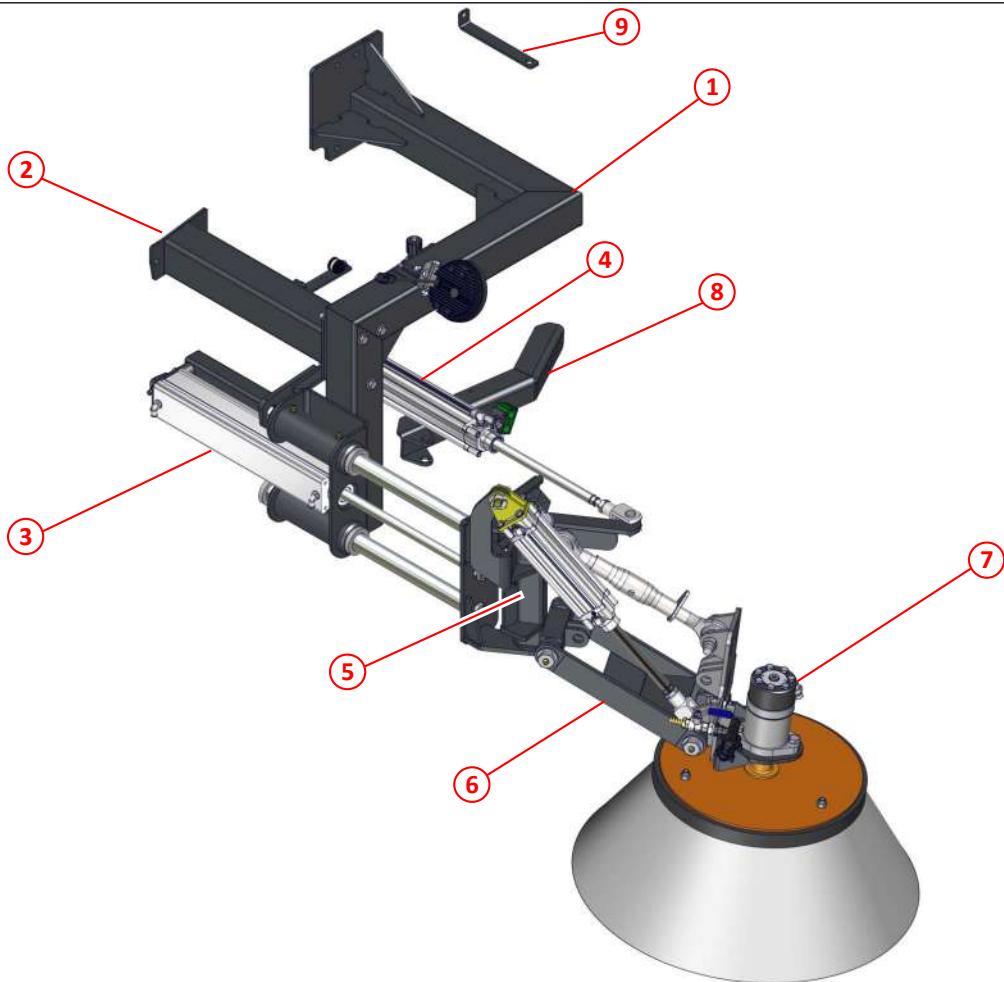


Figure 40: Central brush (wide sweep) extended, brush core and shaft

Item	Part No	Qty	Description
①	021295	1	Brush core, extended
②	013649	2	End cap, brush core
③	011417	8	Socket cap screw $\frac{3}{8}$ " UNC x 1"
④	023474	40	Brush fill, \varnothing 400, poly
⑤	023472	38	Brush spacer
⑥	021296	1	Drive tube extended
⑦	013648	1	Drive shaft, central brush (wide sweep) extended
⑧	011112	2	Socket set screw M6 x 12
NI	023474	1	Box of 44 brush fill, \varnothing 400, poly
NI	024553	1	Brush core assembly complete, items ①, ②, ③, ④ and ⑤

Auxiliary side brush, left hand, general arrangement



i Left hand shown, for a DAF LF55. For other versions please contact Scarab Parts Department.

Figure 41: Auxiliary side brush, left hand, general arrangement

Item	Part No	Qty	Description	
①	042197	1	Carrier, auxiliary brush, left hand, (DAF LF55)	68
②	042198	1	Support, auxiliary brush, left hand, (DAF LF55)	68
③		1	Pneumatic cylinder, auxiliary brush extend/retract	69
④		1	Pneumatic cylinder, auxiliary brush swing in/out	70
⑤	037915	1	King post, left hand, auxiliary brush	71
⑥		1	Auxiliary brush linkage, left hand	72
⑦		1	Auxiliary brush, motor and brush assembly	73
⑧	037912	1	Arm, left hand, pneumatic cylinder, replaces item ③ on page 29	29
⑨	013192	1	Bracket, pipe/hose support	

Auxiliary side brush, left hand, carrier

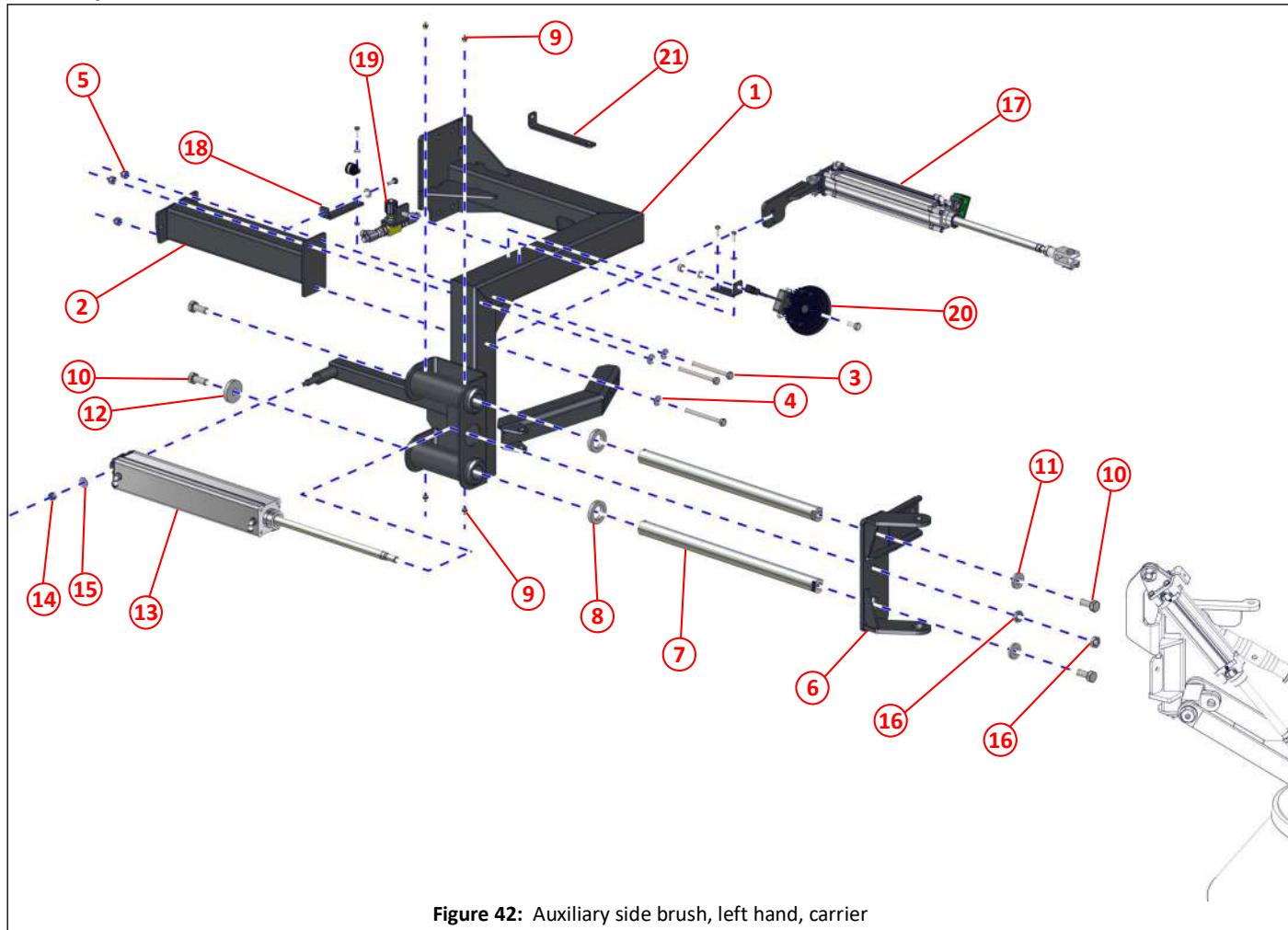
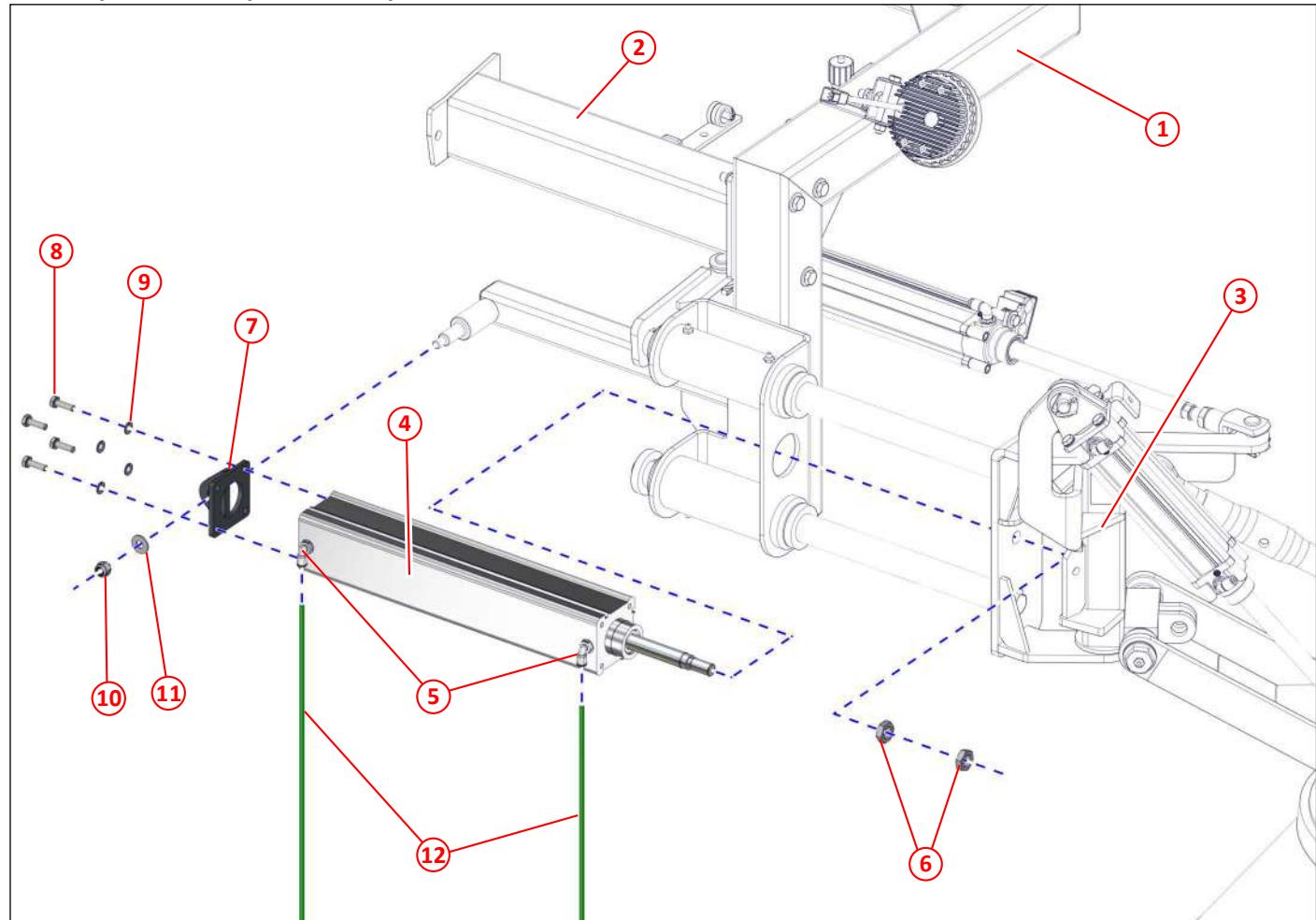


Figure 42: Auxiliary side brush, left hand, carrier

Item	Part No	Qty	Description	Page
①	042197	1	Carrier, auxiliary brush, left hand, (DAF LF55)	67
②	042198	1	Support, auxiliary brush, left hand (DAF LF55)	
③	011042	3	Bolt M10 x 110	
④	011094	3	Plain washer M10	
⑤	011075	3	Nyloc nut M10	
⑥	037916	1	King post support, left hand auxiliary brush	
⑦	030856	2	Thrust bar, auxiliary brush	
⑧	039838	2	Spacer, auxiliary brush, linear slide	
⑨	010903	4	Grease nipple, $\frac{1}{8}$ " BSP, straight	
⑩	011141	4	Bolt M16 x 35	
⑪	030862	2	Washer, small, auxiliary brush	
⑫	030861	1	Washer, large, auxiliary brush	
⑬		1	Pneumatic cylinder, auxiliary brush extend/retract	69
⑭	011075	1	Nyloc nut M10	
⑮	011094	1	Plain washer M10	
⑯	000138	2	Lock nut, M16 x 1.5	
⑰		1	Pneumatic cylinder, left hand, swing in/out	70
⑱		1	Bracket, hose support	75
⑲		1	Valve, brush speed	76
⑳		1	Work light, auxiliary brush	77
㉑	013192	1	Bracket, pipe/hose support	

Auxiliary side brush, pneumatic cylinder, extend/retract

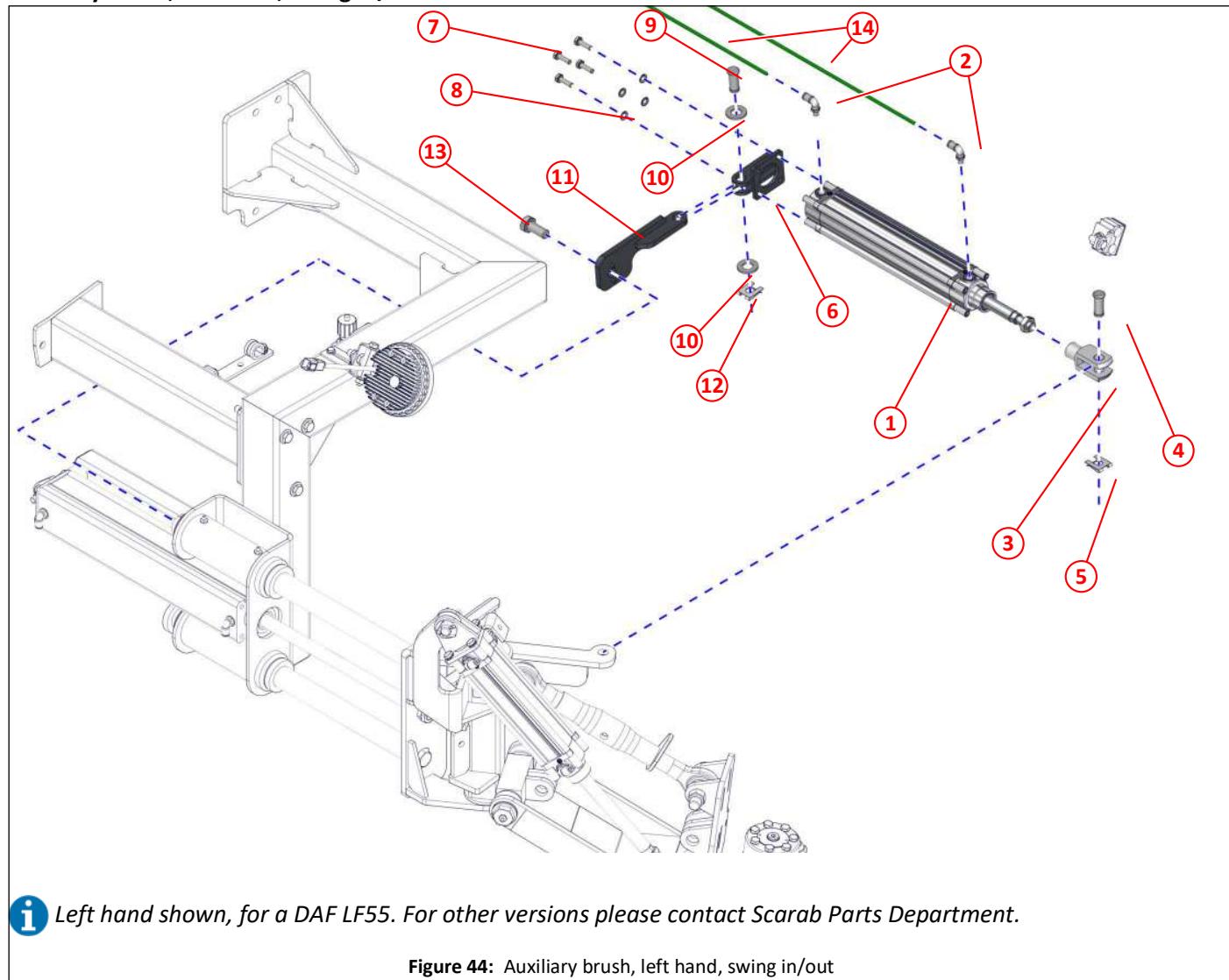


i Left hand shown, for a DAF LF55. For other versions please contact Scarab Parts Department.

Figure 43: Auxiliary side brush, pneumatic cylinder, extend retract

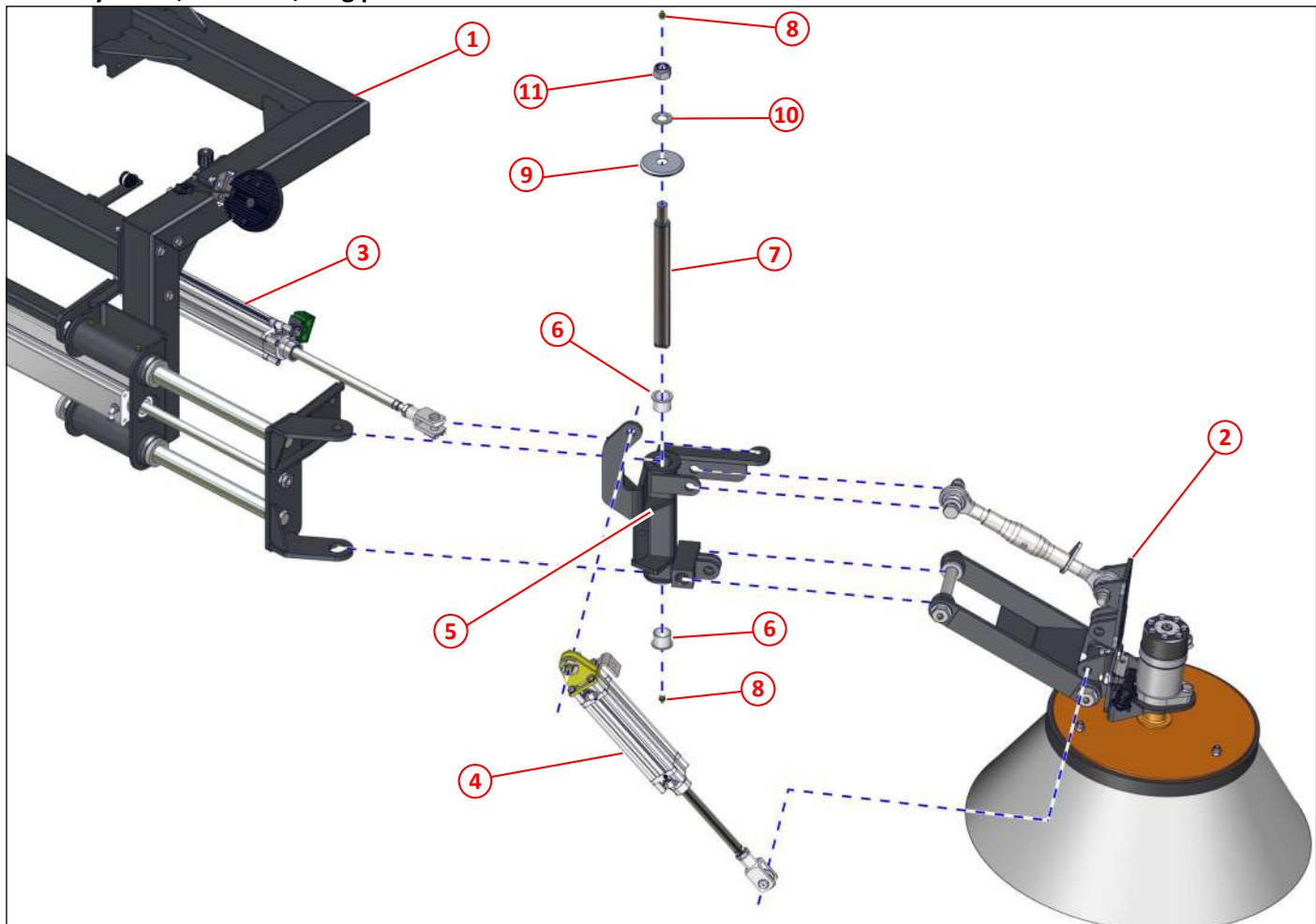
Item	Part No	Qty	Description	
①	042197	1	Carrier, auxiliary brush, left hand, (DAF LF55)	67,68
②	042198	1	Support, auxiliary brush, left hand (DAF LF55)	67,68
③		1	Auxiliary brush king post, linkage and brush assembly, left hand	71,72,73
④	026396	1	Pneumatic cylinder 63 x 320	315
⑤	024646	2	Elbow, M/F, $\frac{1}{4}$ " BSP x ø6 push in	
⑥	000138	2	Lock nut M16 x 1.5	
⑦	030859	1	Mounting bracket, pneumatic cylinder, auxiliary brush extend/retract	
⑧	011011	4	Set screw M8 x 25	
⑨	011093	4	Spring washer M8	
⑩	011075	1	Nyloc nut M10	
⑪	011094	1	Plain washer M10	
⑫	024650	As req	Air pipe, green, ø6	

Auxiliary brush, left hand, swing in/out



Item	Part No	Qty	Description	
①	021521	1	Pneumatic cylinder 50 x 160	314
②	024646	2	Elbow, M/F, $\frac{1}{4}$ " BSP x ø6 push in	
③	020299	1	Clevis M16 x 1.5	
④	022673	1	Clevis pin	
⑤	022674	1	Safety fastener ø16	
⑥	030860	1	Mounting bracket, left hand, pneumatic cylinder, auxiliary brush, swing in/out	
⑦	011011	4	Set screw M8 x 25	
⑧	011093	4	Spring washer M8	
⑨	022673	1	Clevis pin	
⑩	011135	2	Plain washer M16	
⑪	022674	1	Safety fastener ø16	
⑫	042207	1	Auxiliary brush push link	
⑬	011141	1	Bolt M16 x 35	
⑭	024650	As req	Air pipe, green, ø6	

Auxiliary brush, left hand, king post

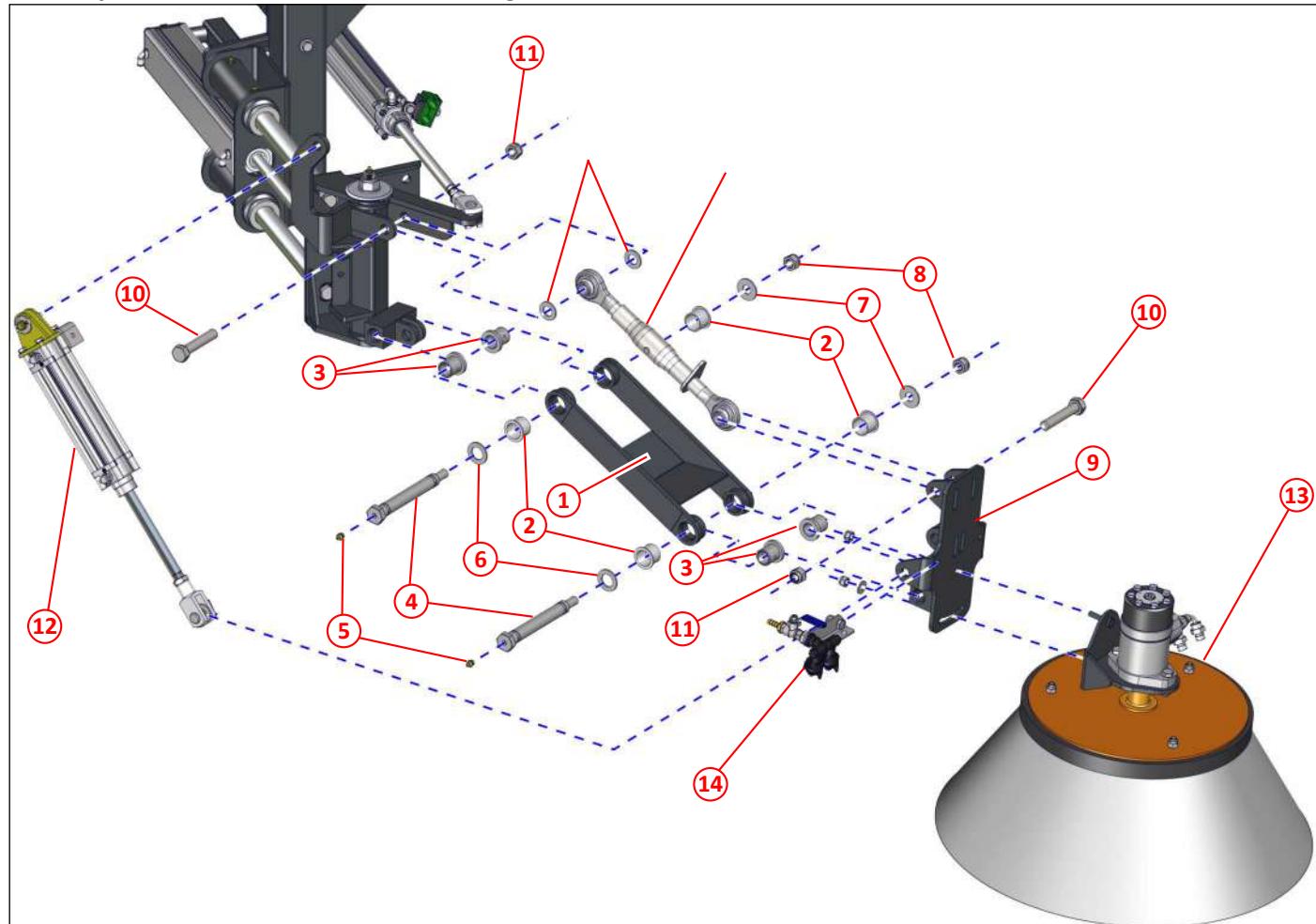


i Left hand shown, for a DAF LF55. For other versions please contact Scarab Parts Department.

Figure 45: Auxiliary brush, left hand, king post

Item	Part No	Qty	Description	
①	042197	1	Carrier, auxiliary brush, left hand, (DAF LF55)	
②		1	Auxiliary brush linkage and brush assembly, left hand	72
③		1	Pneumatic cylinder, left hand, auxiliary brush, swing in/out	70
④		1	Pneumatic cylinder, auxiliary brush, raise/lower	72
⑤	037915	1	King post, left hand, auxiliary brush	
⑥	013012	2	Bush, king post	
⑦	013007	1	King pin	
⑧	010903	2	Grease nipple, $\frac{1}{8}$ " BSP, straight	
⑨	013013	1	Dirt shield	
⑩	011102	1	Plain washer M20	
⑪	011082	1	Nyloc nut M20	

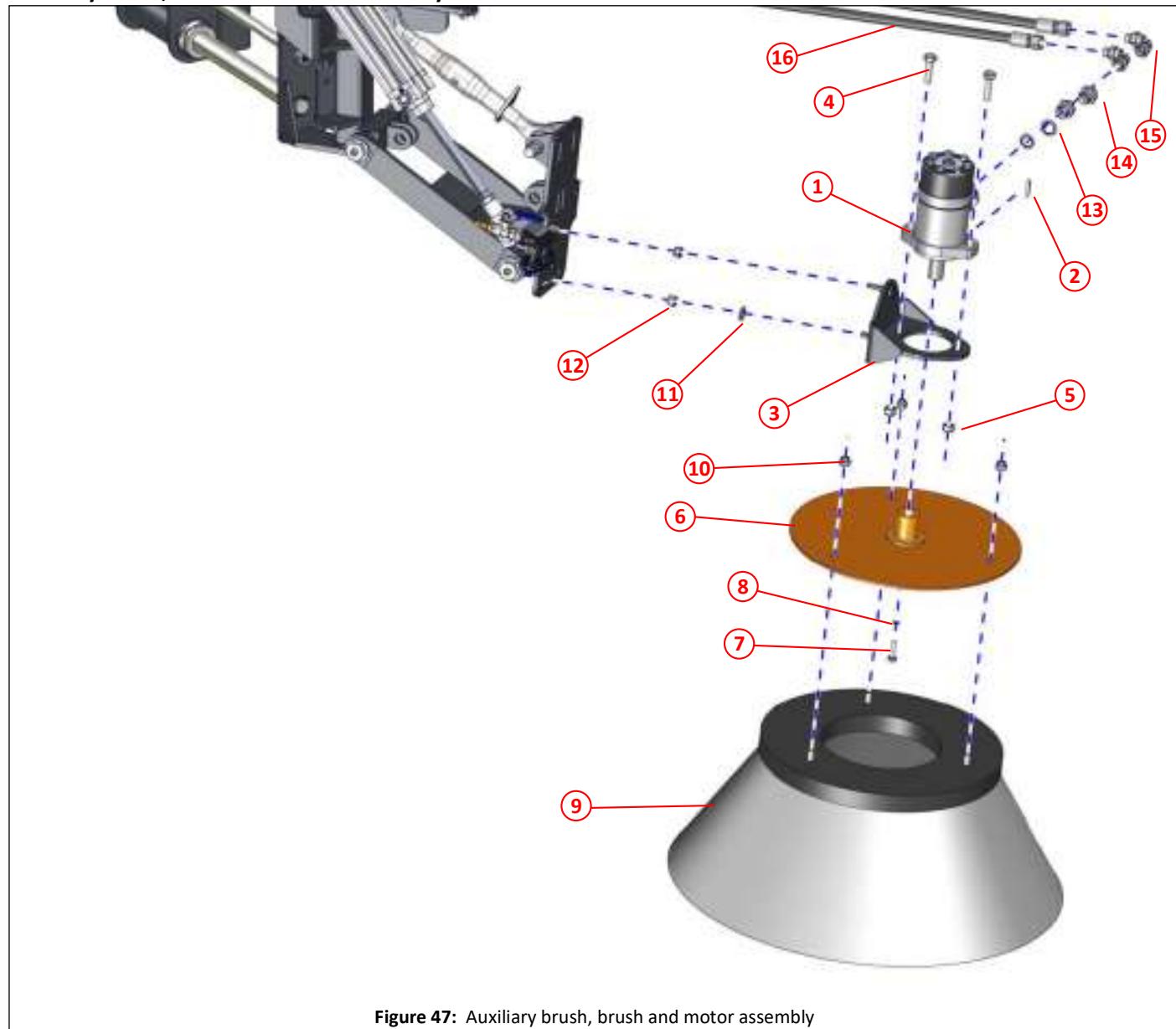
Auxiliary brush, left hand, raise/lower linkage



i Left hand shown, for a DAF LF55. For other versions please contact Scarab Parts Department.

Figure 46: Auxiliary brush, left hand, raise/lower linkage

Item	Part No	Qty	Description	
①	014801	1	Brush link	
②	013012	4	Bush	
③	014799	4	Spacer sleeve	
④	014796	2	Pivot bolt	
⑤	010903	2	Grease nipple, $\frac{1}{8}$ " BSP, straight	
⑥	014798	2	Washer $\varnothing 24 \times \varnothing 40 \times 3$	
⑦	014797	2	Washer $\varnothing 17 \times \varnothing 40 \times 3$	
⑧	011060	2	Nyloc nut M16	
⑨	023121	1	Swivel plate	
⑩	011140	2	Bolt M18 x 90	
⑪	011060	2	Nyloc nut M16	
⑫		1	Pneumatic cylinder, auxiliary brush, raise/lower	313
⑬		1	Brush head assembly	73
⑭		1	Water spray nozzle, twin, left hand auxiliary brush	74

Auxiliary brush, brush and motor assembly

Figure 47: Auxiliary brush, brush and motor assembly

Item	Part No	Qty	Description	
①	010749	1	Motor 3597 (OMP 200)	275
②	011515	1	Key for item ①	
③	010007	1	Bracket, motor	
④	011069	2	Bolt M12 x 40	
⑤	011077	2	Nyloc nut M12	
⑥	014067	1	Brush disc	
⑦	011012	1	Set screw M8 x 30	
⑧	040197	1	Schnorr safety washer type VS8	
⑨	023473	1	Brush, steel, ø400-ø650	
⑩	011075	3	Nyloc nut M10	
⑪	011094	1	Plain washer M10	
⑫	011075	2	Nyloc nut M10	
⑬	011154	2	Dowty seal $\frac{1}{2}$ " BSP	
⑭	011167	2	Adapter $\frac{1}{2}$ " BSP x $\frac{3}{8}$ " BSP	
⑮	011221	2	Elbow, swept, $\frac{3}{8}$ " BSP	
⑯	001168	2	Hose, $\frac{3}{8}$ " x 1350, $\frac{3}{8}$ " BSP straight ends, to/from brush speed control valve	76

Auxiliary brush, left hand, water jet arrangement

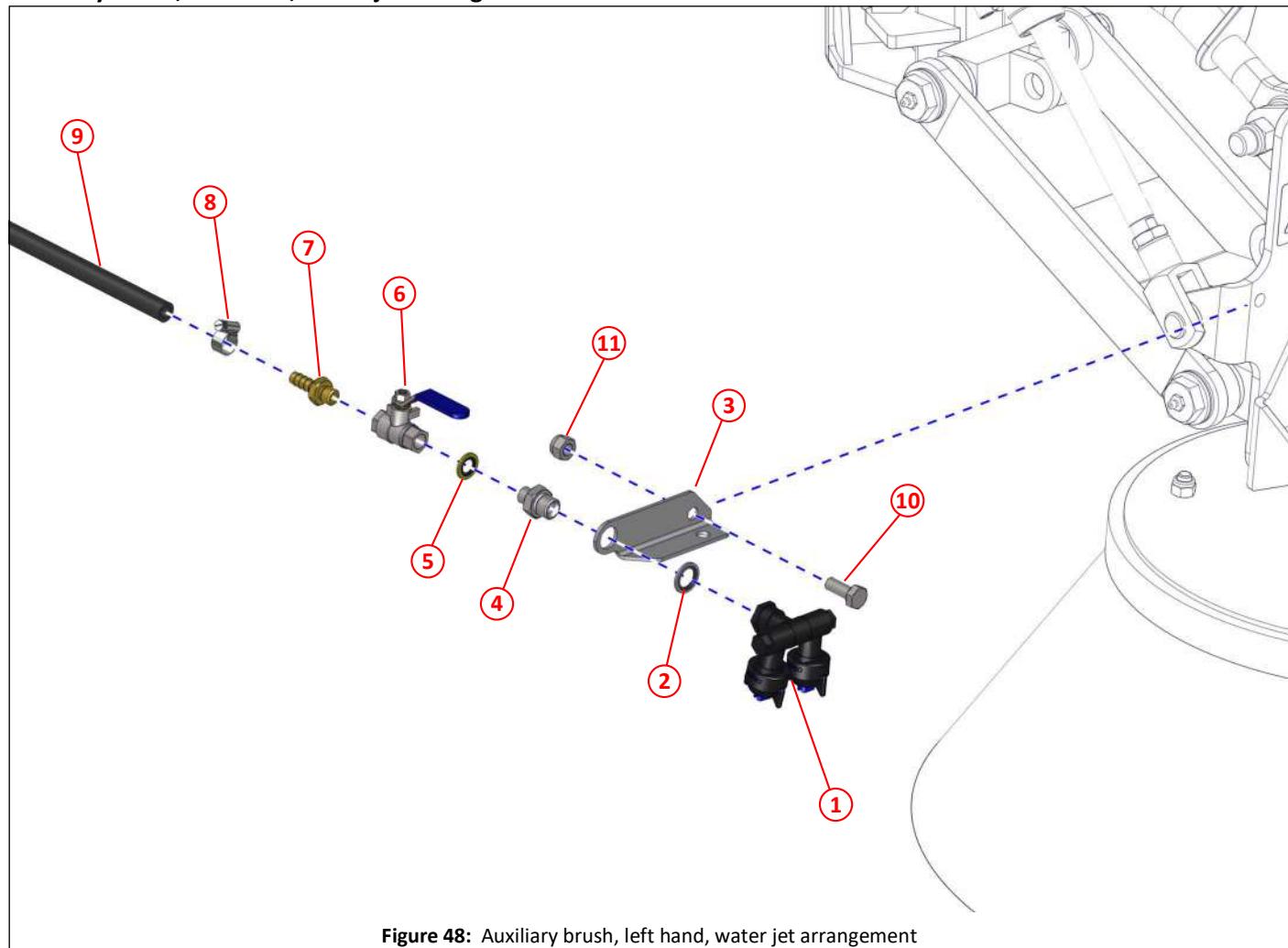


Figure 48: Auxiliary brush, left hand, water jet arrangement

Item	Part No	Qty	Description	
①	036044	1	Double swivel nozzle assembly	72,225
②	011153	1	Dowty seal $\frac{3}{8}$ " BSP	
③	036042	1	Nozzle bracket, twin nozzles, side brush, for left hand side	
④	011199	1	Adapter $\frac{3}{8}$ " x $\frac{1}{4}$ " BSP	
⑤	011152	1	Dowty seal $\frac{1}{4}$ " BSP	
⑥	011743	1	Valve, ball, $\frac{1}{4}$ " BSP	
⑦	010922	1	Adapter $\frac{1}{4}$ " BSP x $\frac{3}{8}$ " hose tail	
⑧	010516	1	Hose clamp, worm drive, No. M00 ($\varnothing 11\text{mm}$ - $\varnothing 16\text{mm}$)	
⑨	010950	As req	Hose $\frac{3}{8}$ "	
⑩	011031	1	Set screw M10 x25	
⑪	011075	1	Nyloc nut M10	

Auxiliary brush, bracket pipe/hose support

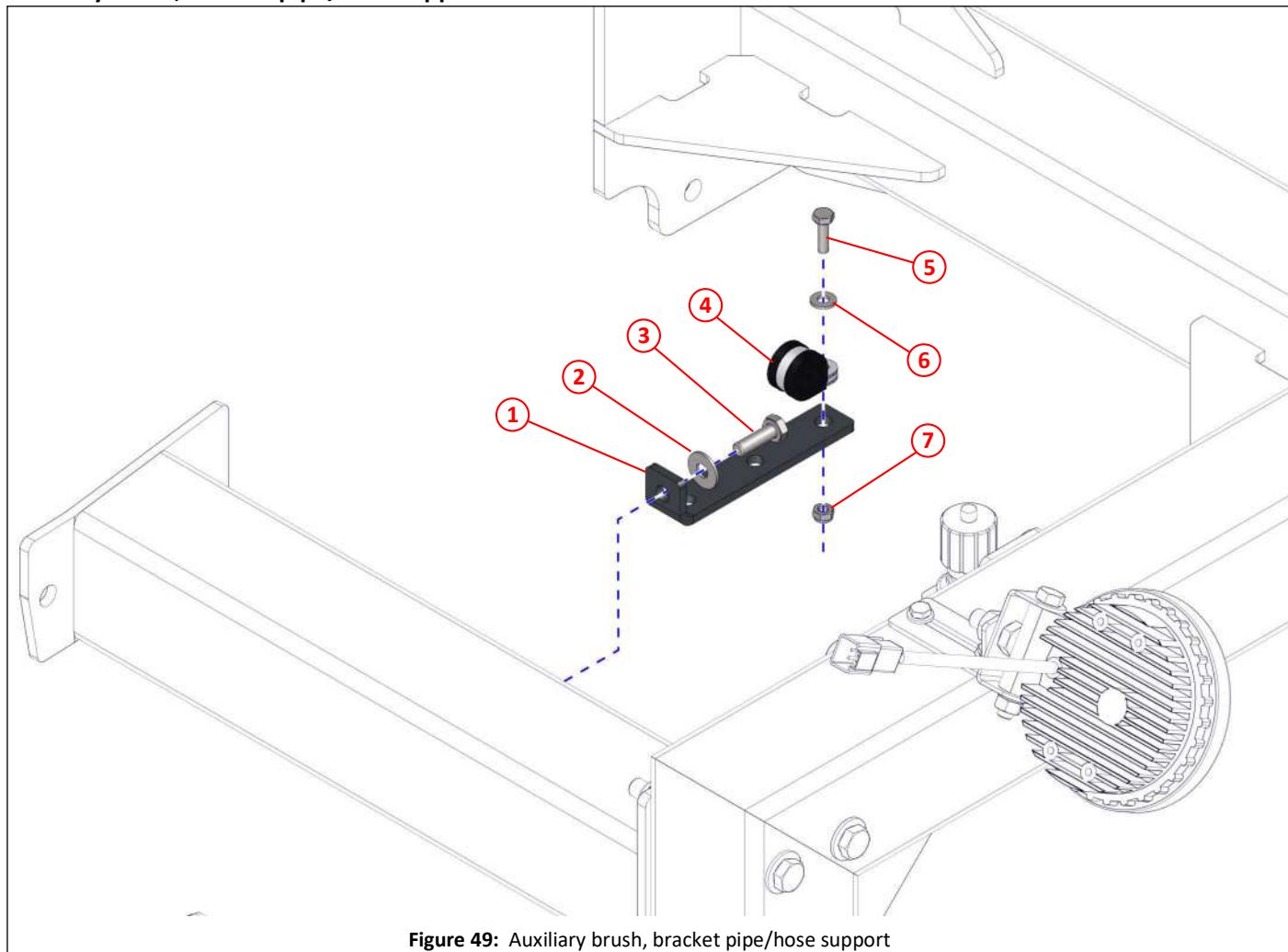


Figure 49: Auxiliary brush, bracket pipe/hose support

Item	Part No	Qty	Description	
①	031921	1	Bracket, pipe/hose support	
②	011092	1	Plain washer M8	
③	011011	1	Set screw M8 x 25	
④	005059	1	P clip ø25	
⑤	011067	1	Set screw M6 x 20	
⑥	011090	1	Plain washer M6	
⑦	011071	1	Nyloc nut M6	

Auxiliary brush, speed control valve, brush

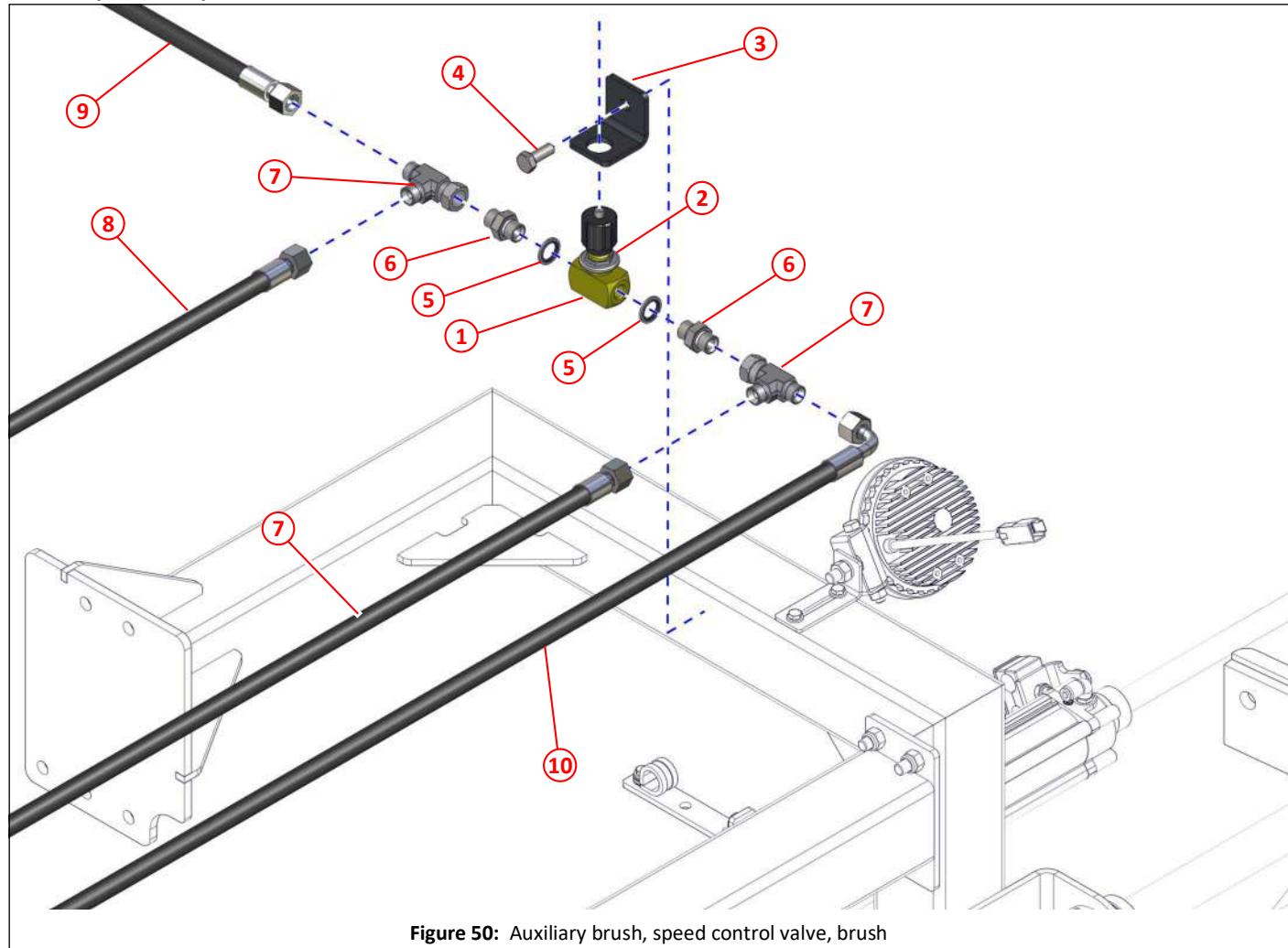


Figure 50: Auxiliary brush, speed control valve, brush

Item	Part No	Qty	Description
①	022341	1	Valve, shut off
②	039867	1	Panel mounting kit, nut and washer
③	025007	1	Bracket
④	011031	1	Set screw M10 x 25
⑤	011153	2	Dowty seal 3/8" BSP
⑥	011159	1	Adapter, M/M, 3/8" BSP
⑦	011223	2	Tee, nut on run, 3/8" BSP
⑧	001168	2	Hose, 3/8" x 1350, 3/8" BSP straight ends, to/from auxiliary brush motor
⑨	001009	1	Hose, 3/8" x 2200, 3/8" BSP, straight ends, pressure feed
⑩	001252	1	Hose, 3/8" x 2540, 3/8" BSP, straight and 90° ends, return to tank

Auxiliary brush, work lamp

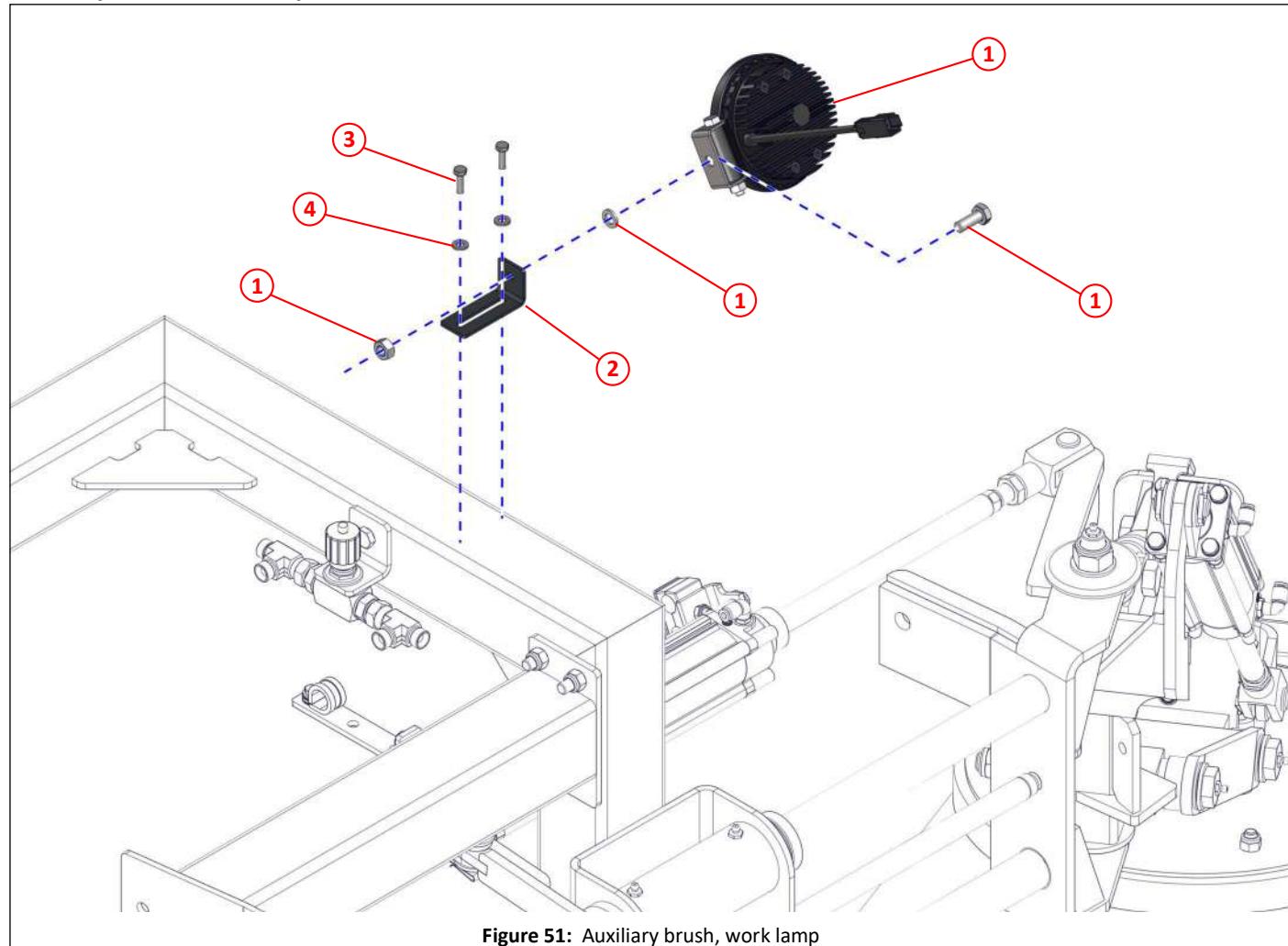


Figure 51: Auxiliary brush, work lamp

Item	Part No	Qty	Description	
①	047757	1	Work lamp, LED 18W, include mounting bolt, washer and nut	
②	026196	1	Bracket	
③	011067	2	Set screw M6 x 20	
④	011090	2	Plain washer M6	

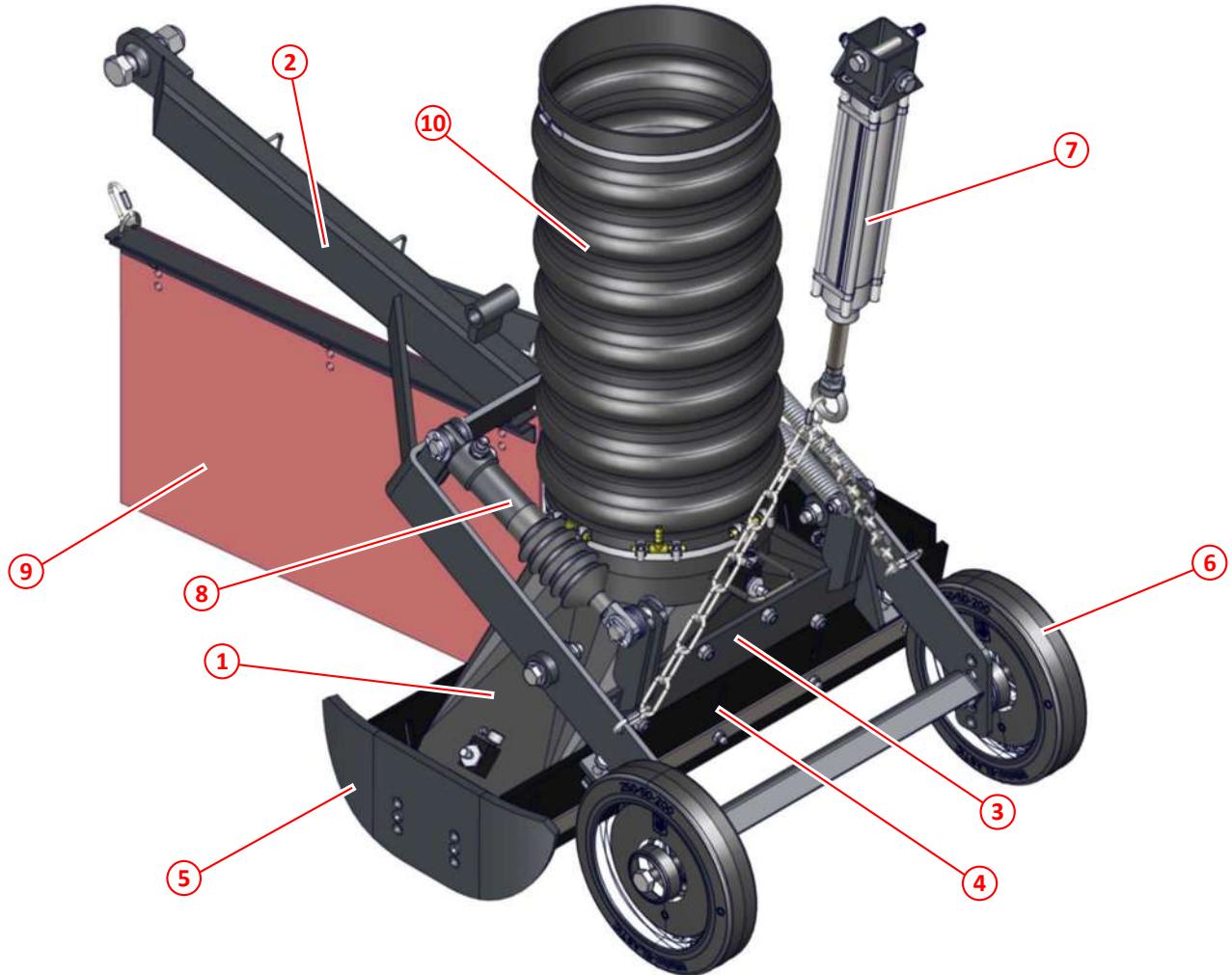
Suction

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Suction



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Overhead boom water switch	140
PU lined suction components	141

Left hand suction nozzle arrangement

Figure 52: Left hand suction nozzle arrangement

Item	Part No	Qty	Description	
①	023604	1	Suction nozzle box	89
②	023605	1	Suction nozzle frame, left hand side	85
③	020328	1	Pivot, suction nozzle	86
④			Suction nozzle flap	89
⑤	013277	1	Skid plate, suction nozzle	89
⑥			Wheel	85
⑦			Suction nozzle lift, pneumatic cylinder	83
⑧			Suction nozzle tilt, hydraulic ram	87
⑨			Skirt	84
⑩	013028	1	Suction nozzle hose	82

Left hand suction nozzle hose

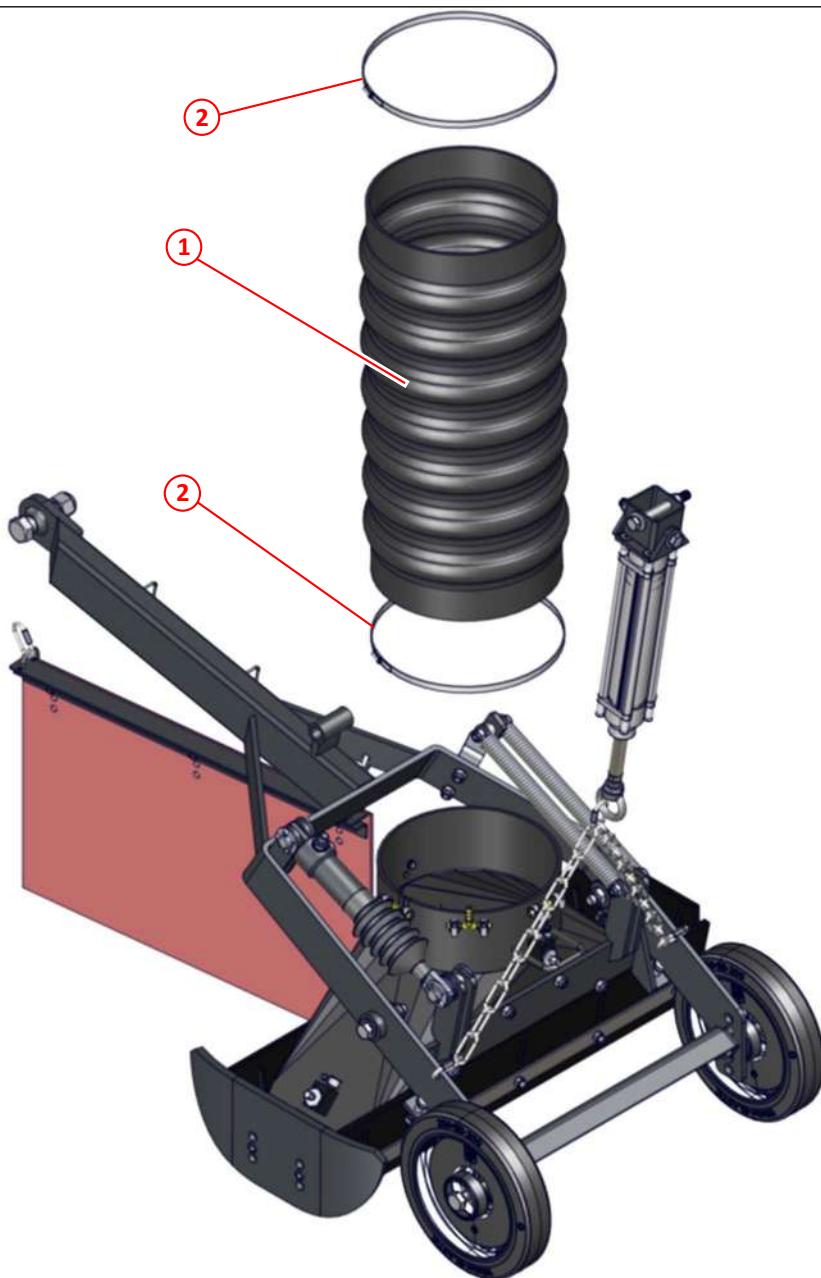
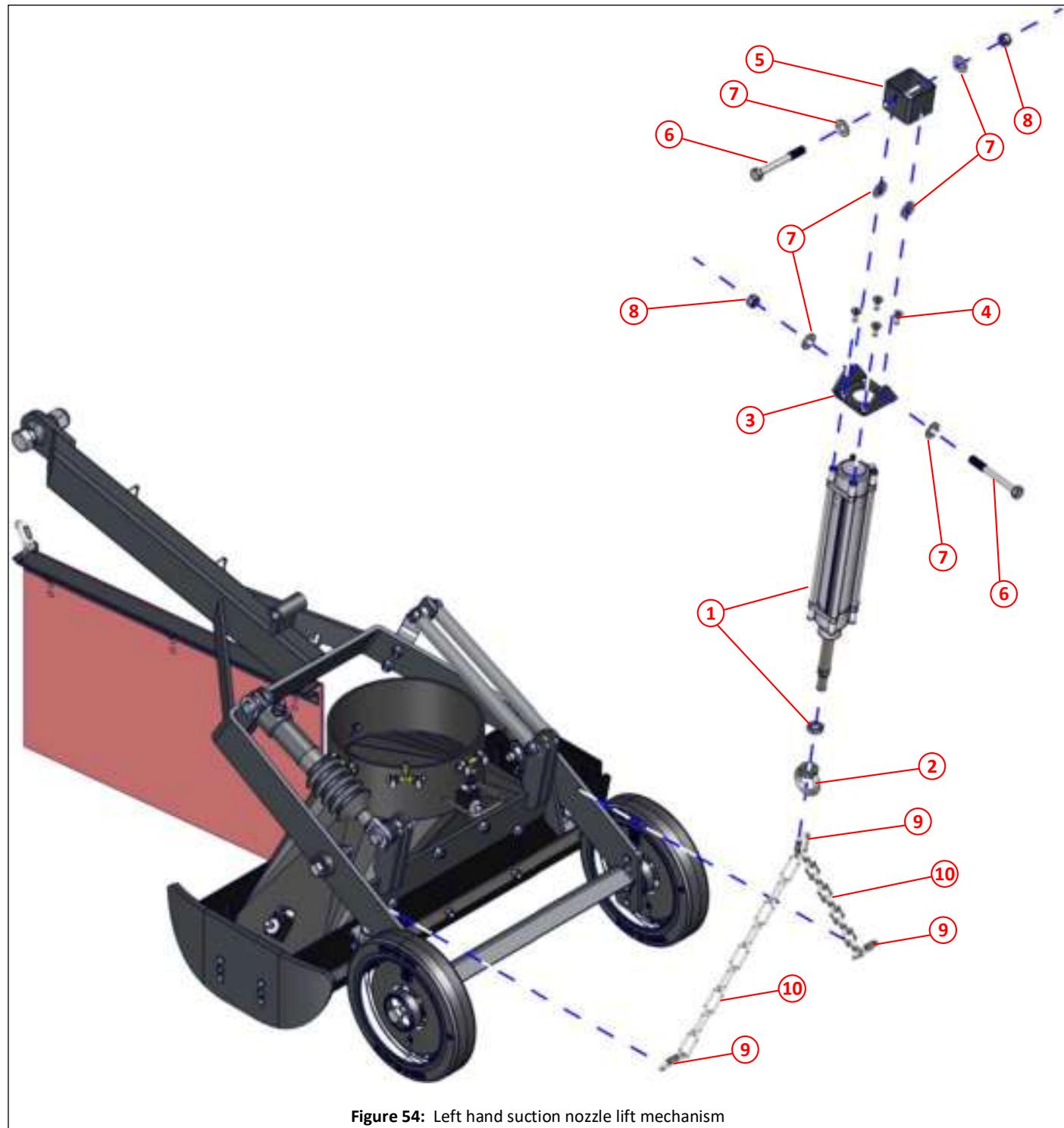


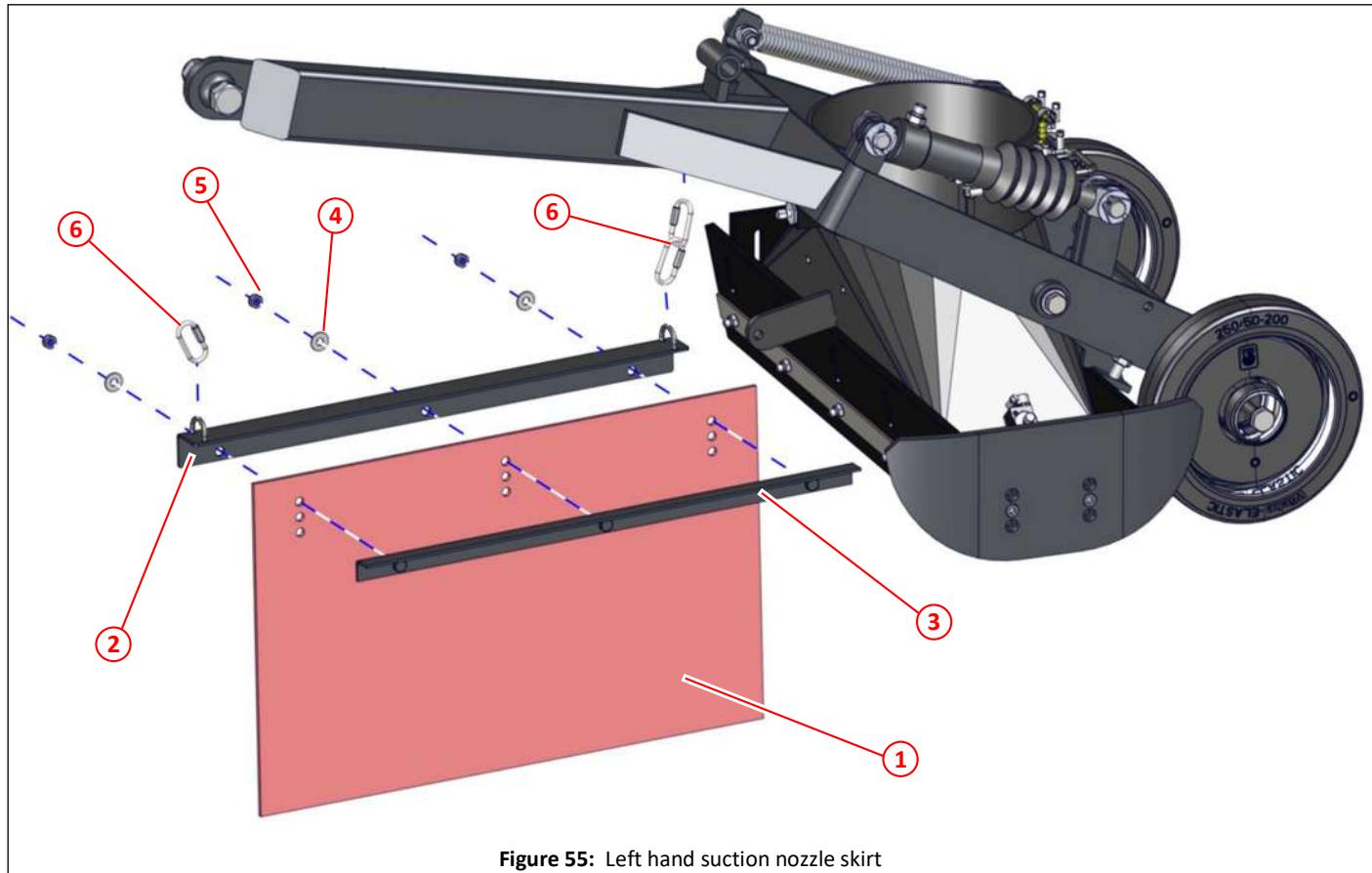
Figure 53: Left hand suction nozzle hose

Item	Part No	Qty	Description	█
①	013028	1	Suction nozzle hose	81
②	012933	2	Hose clamp, worm drive, No. 10.50 ($\varnothing 235\text{mm}$ - $\varnothing 267\text{mm}$)	

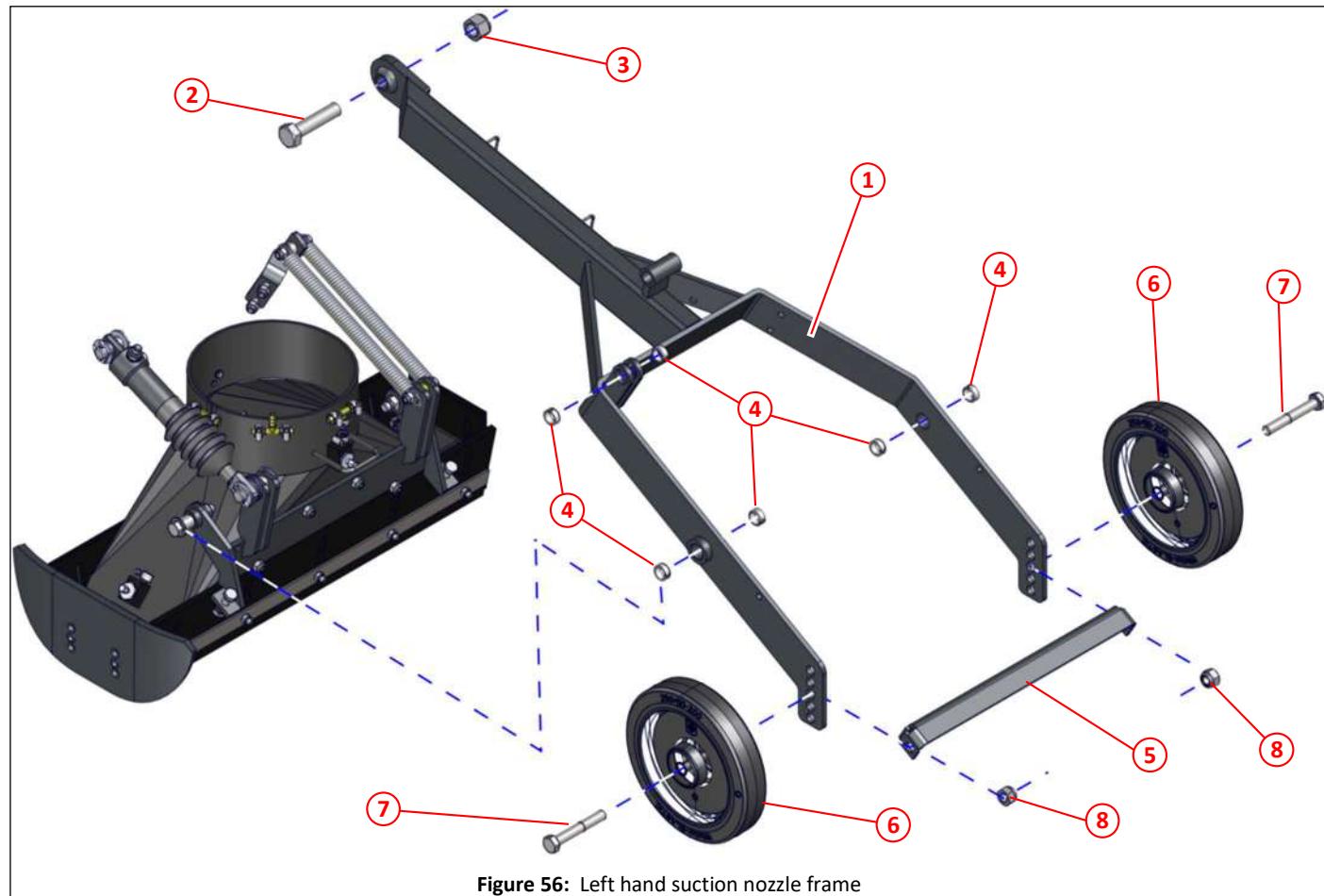
Left hand suction nozzle lift mechanism

Figure 54: Left hand suction nozzle lift mechanism

Item	Part No	Qty	Description	
①	030772	1	Pneumatic cylinder 50 x 200, suction nozzle lift, includes nut	309
②	032293	1	Ring nut, M16 x 1.5	
③	030777	1	Cylinder pivot, suction nozzle lift	
④	000003	4	Socket countersunk screw M8 x 20, plated	
⑤	030776	1	Cylinder pivot block, suction nozzle lift	
⑥	011057	2	Bolt M12 x 100	
⑦	011096	6	Plain washer M12	
⑧	011077	2	Nyloc nut M12	
⑨	010606	3	Carabiner	
⑩	010525	As req	Chain, large link	

Left hand suction nozzle skirt



Item	Part No	Qty	Description	
①	010247	1	Skirt, 3-pitch, heavy duty	
②	013145	1	Skirt angle	
③	010275	1	Skirt clamp	
④	011092	3	Plain washer M8	
⑤	011073	3	Nyloc nut M8	
⑥	010606	3	Carabiner	

Left hand suction nozzle frame


Item	Part No	Qty	Description	
①	023605	1	Nozzle frame, left hand side	86,87
②	011118	1	Bolt 7/8" UNF x 3 1/2"	
③	011119	1	Nyloc nut 7/8" UNF	
④	024682	6	Bush ø20 x ø25 x 10	
⑤	031833	1	Axle, nozzle	
⑥	031831	2	Wheel, nozzle	
⑦	011133	2	Bolt M16 x 100	
⑧	011060	2	Nyloc nut M16	
⑨	023604	1	Suction nozzle	89

Left hand suction nozzle tilt pivot

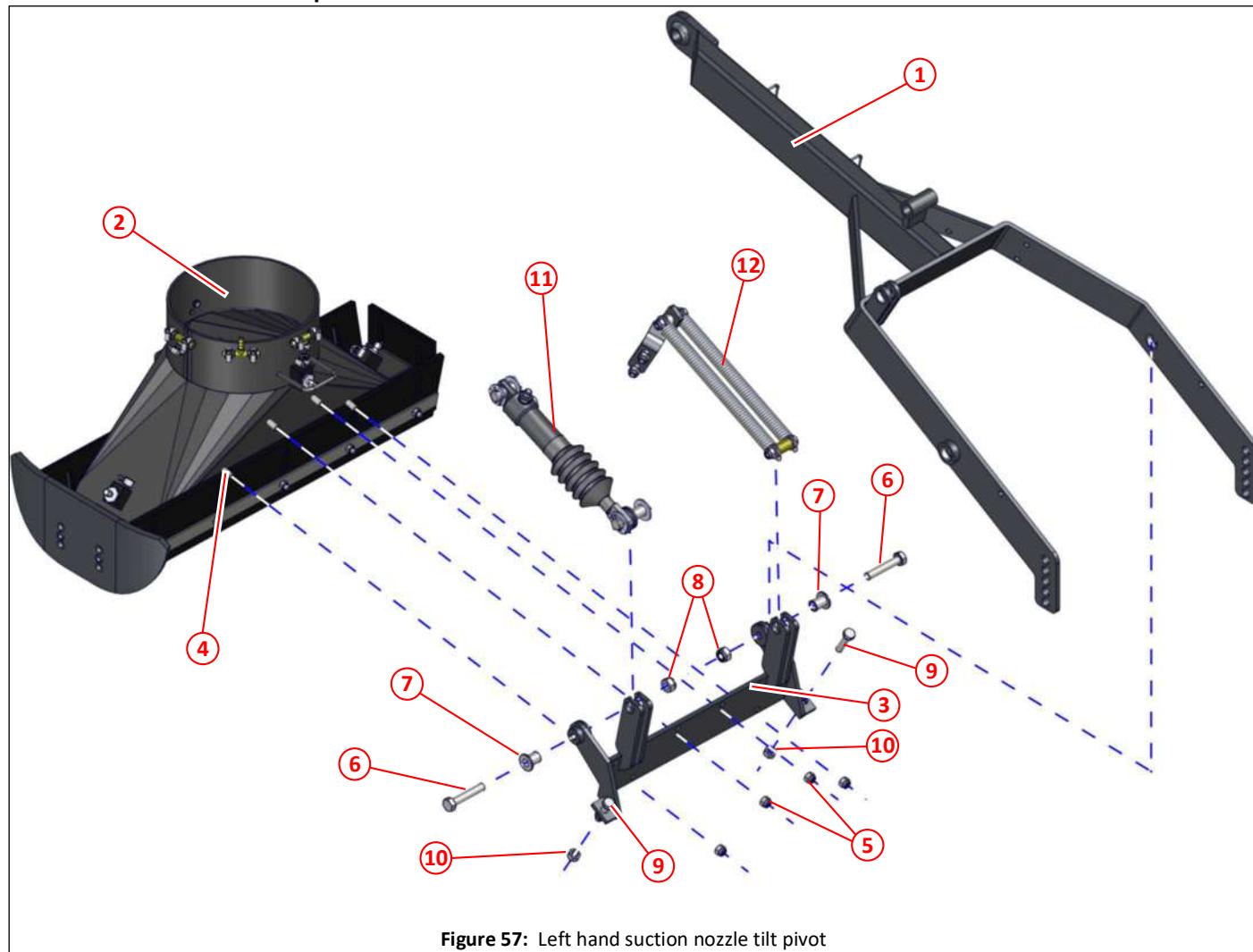


Figure 57: Left hand suction nozzle tilt pivot

Item	Part No	Qty	Description	
①	023605	1	Nozzle frame, left hand side	85,87
②	023604	1	Suction nozzle	89
③	020328	1	Pivot, suction nozzle	
④	011031	4	Set screw M10 x 25	
⑤	011075	4	Nyloc nut M10	
⑥	000351	2	Set screw M14 x 70	
⑦	021416	2	Sleeve	
⑧	011127	2	Nyloc nut M14	
⑨	011054	2	Set screw M12 x 45	
⑩	011076	2	Full nut M12	
⑪			Ram, nozzle tilt	87
⑫	010017	2	Return spring	88

Left hand suction nozzle tilt ram

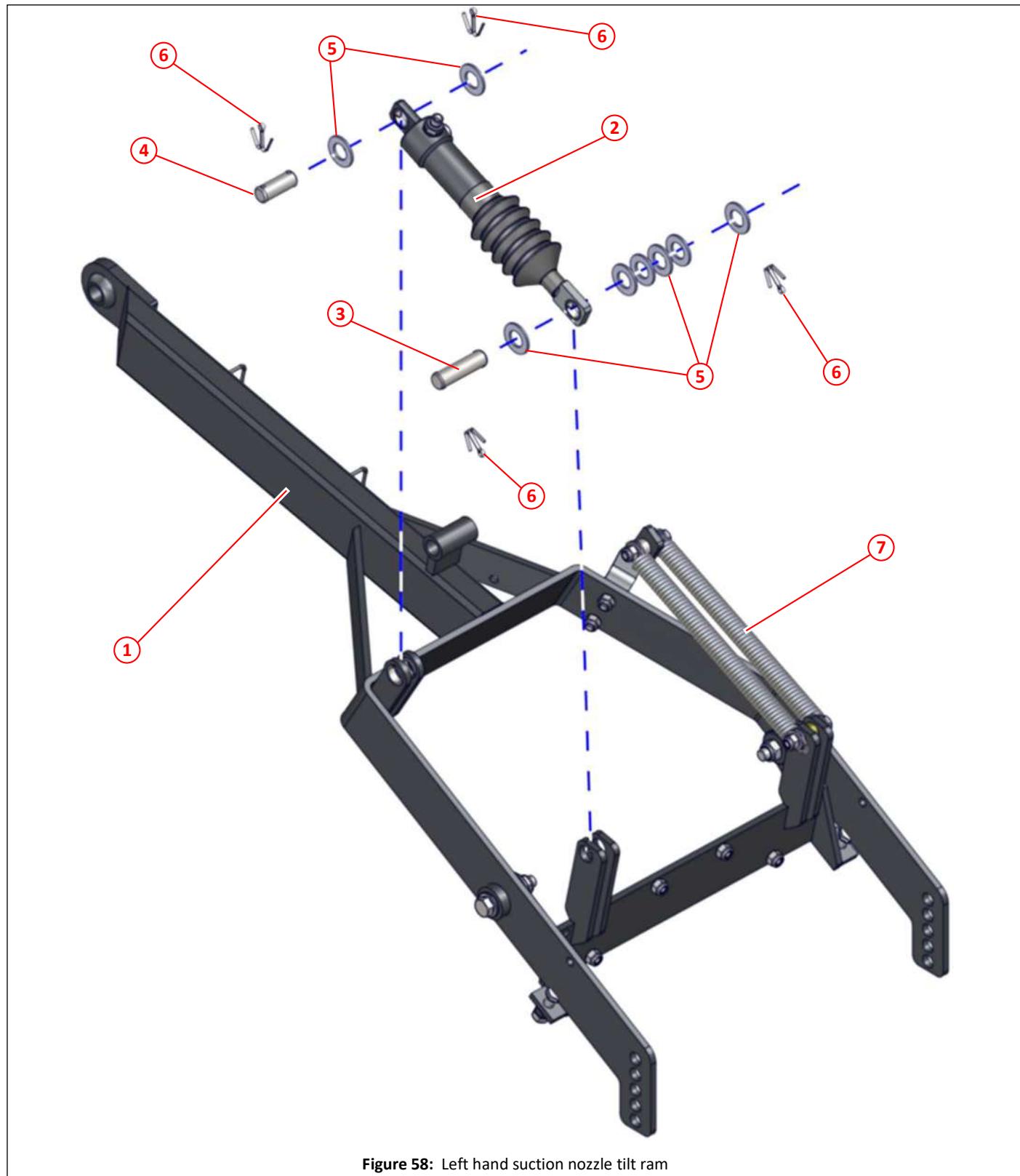


Figure 58: Left hand suction nozzle tilt ram

Item	Part No	Qty	Description	
①	023605	1	Nozzle frame, left hand side	85,86,88
②	041955	1	Ram, nozzle tilt assembly	274
③	014038	1	Pin Ø20 x 70	
④	010067	1	Pin Ø20 x 50	
⑤	011102	8	Plain washer M20	
⑥	011122	4	Split pin $\frac{3}{16}$ " x $1\frac{1}{2}$ "	
⑦	010017	2	Return spring	88

Left hand suction nozzle tilt return springs

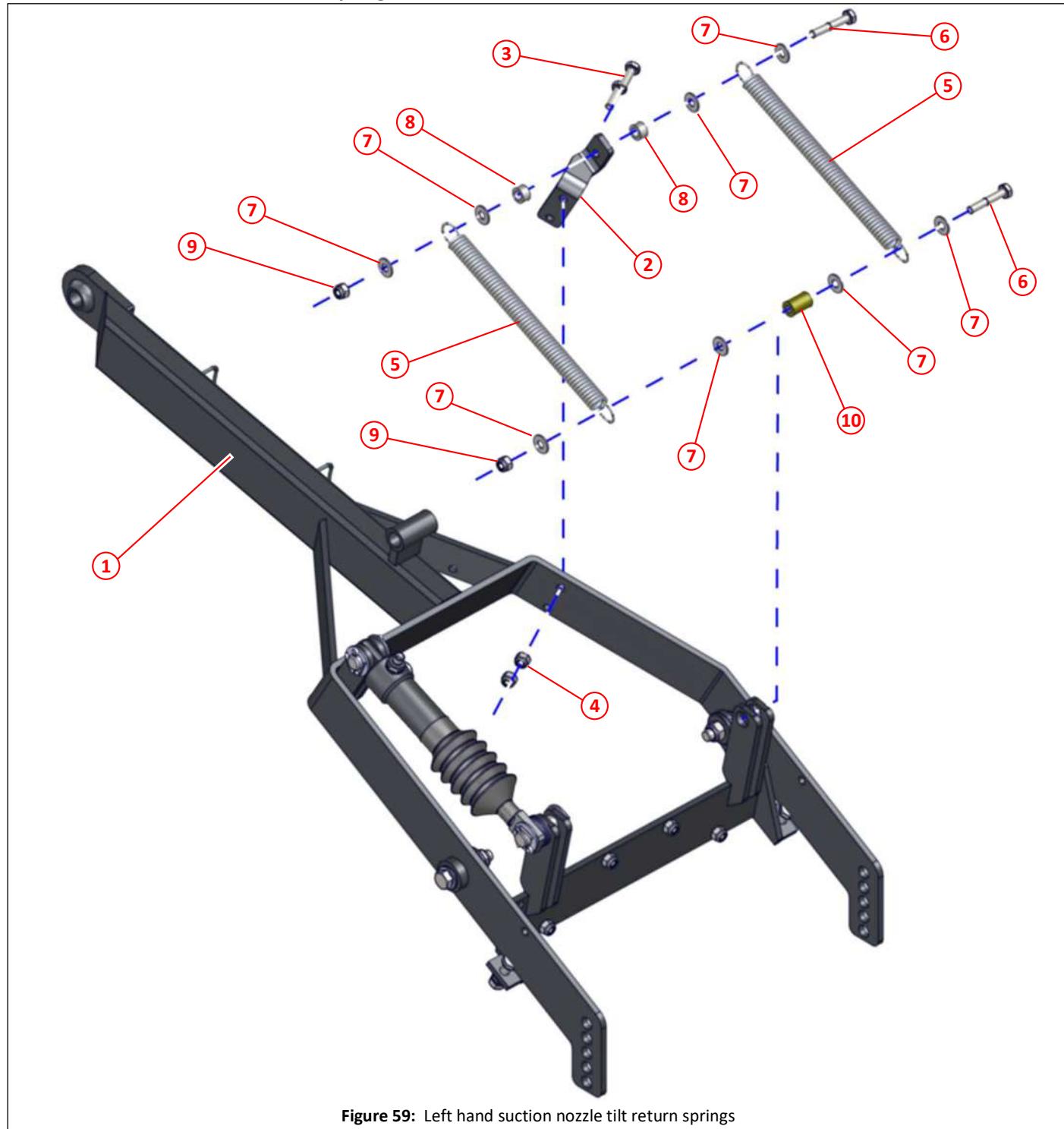
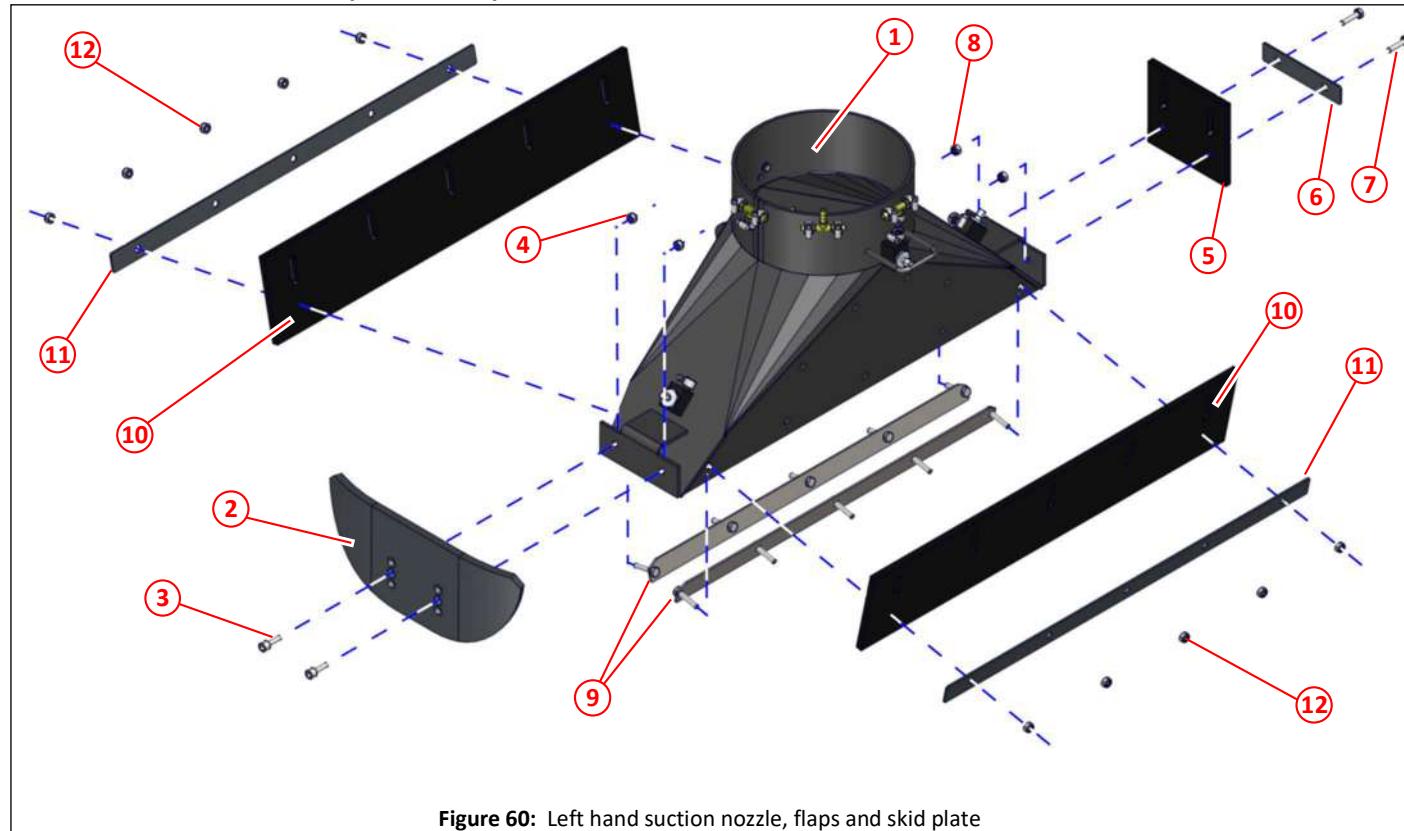


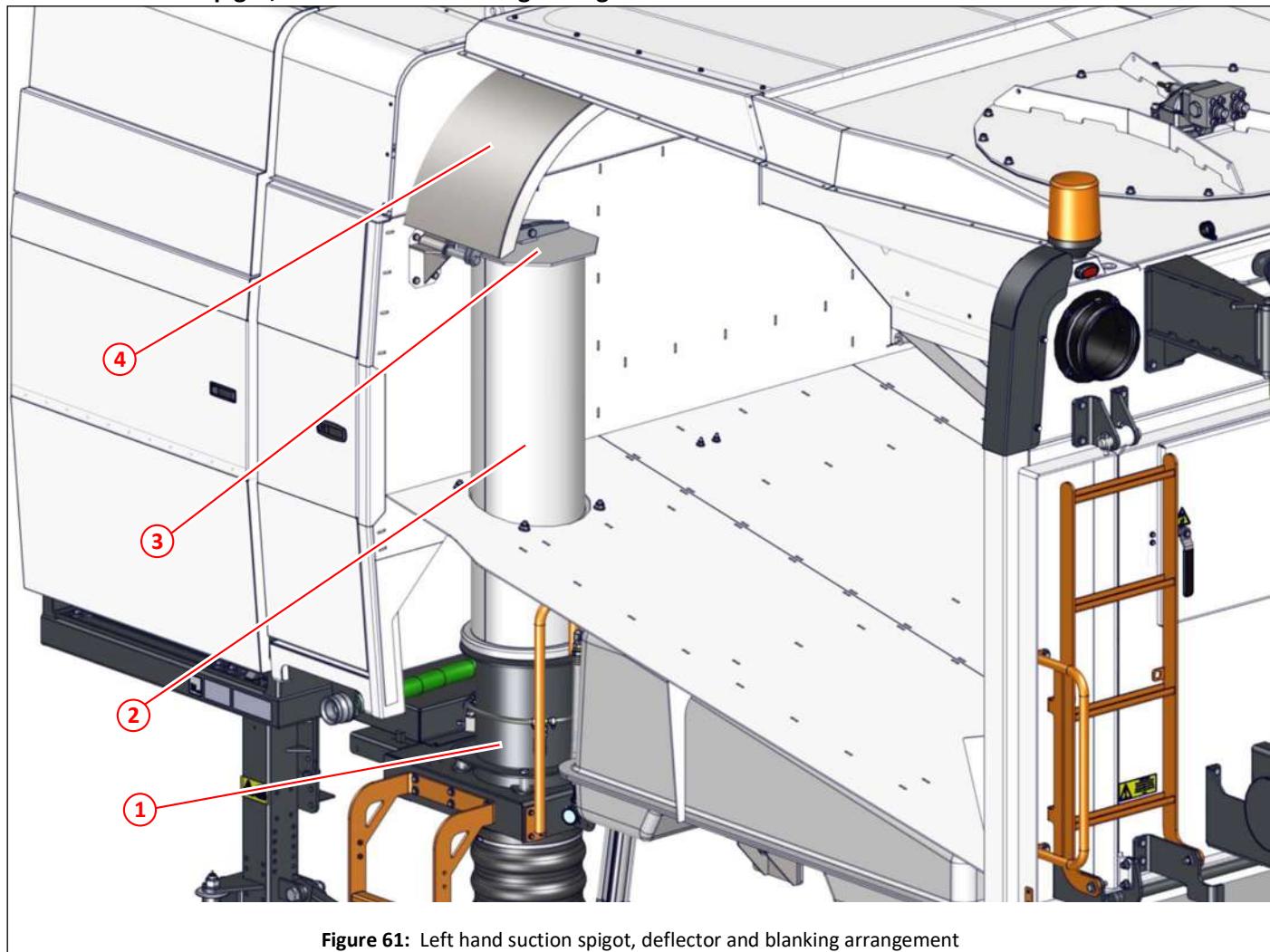
Figure 59: Left hand suction nozzle tilt return springs

Item	Part No	Qty	Description	
①	023605	1	Nozzle frame, left hand side	85,86,87
②	025099	1	Bracket, return spring	
③	011032	2	Set screw M10 x 30	
④	011075	2	Nyloc nut M10	
⑤	010017	2	Return spring	86,87
⑥	000040	2	Bolt M10 x 55	
⑦	011094	8	Plain washer M10	
⑧	011724	2	Spacer ø12.5 x ø20 x 11	
⑨	011075	2	Nyloc nut M10	
⑩	013363	1	Sleeve, spacer	

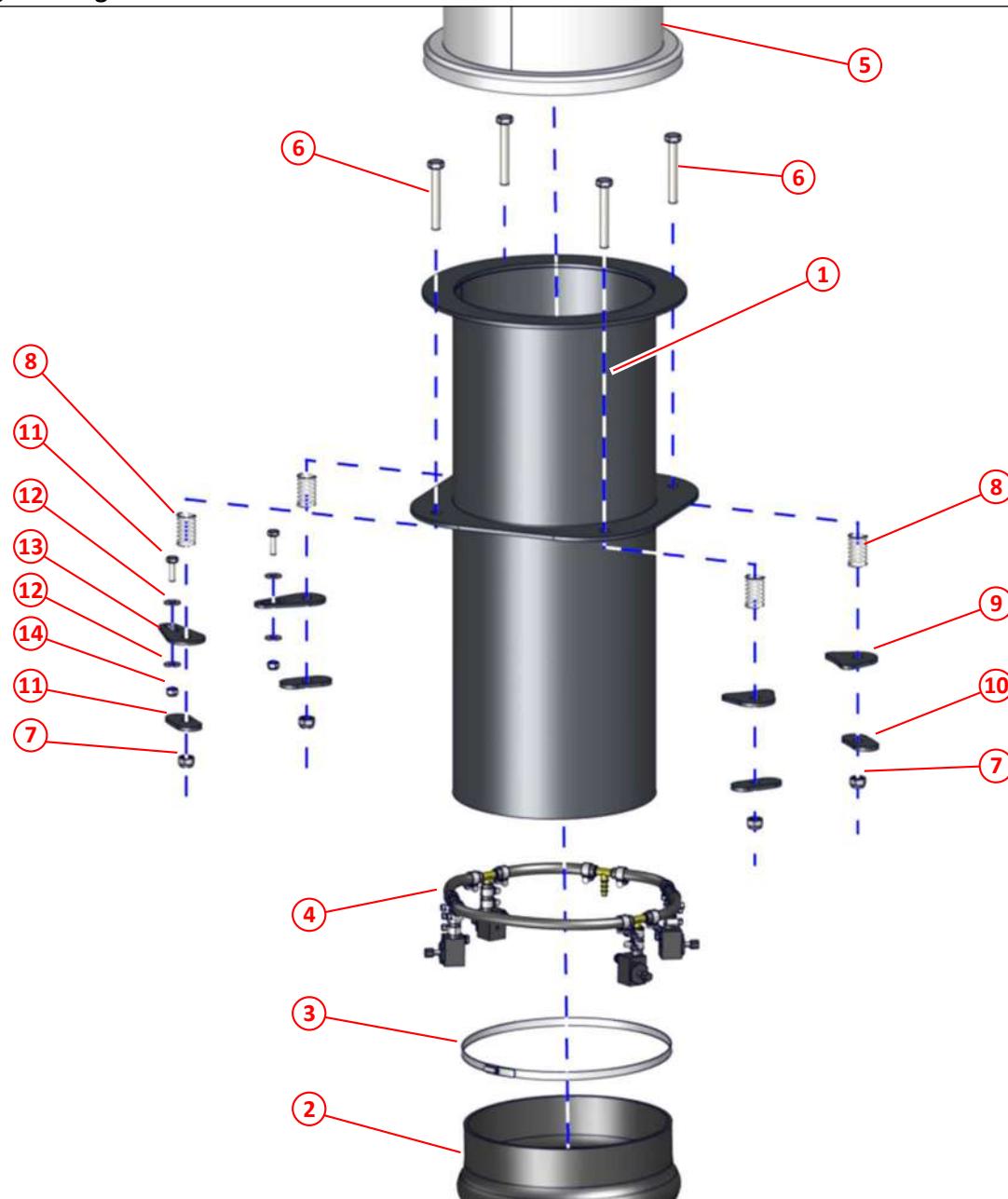
Left hand suction nozzle, flaps and skid plate


Item	Part No	Qty	Description	
①	023604	1	Suction nozzle	81
①	050718	1	Suction nozzle, PU lined	141
②	013277	1	Skid plate, suction nozzle	81
③	011021	2	Socket cap screw M8 x 25	
④	011073	2	Nyloc nut M8	
⑤	013283	1	Flap, side, suction nozzle	
⑥	013024	1	Clamp, flap, side, suction nozzle	
⑦	011012	2	Set screw M8 x 30	
⑧	011073	2	Nyloc nut M8	
⑨	013362	2	Bolt retainer, flap, suction nozzle	
⑩	013023	2	Flap, front/rear, suction nozzle	
⑪	013025	2	Clamp, flap, front/rear, suction nozzle	
⑫	011073	10	Nyloc nut M8	
NI	024550		Flap kit, items ⑤ and 2 x ⑩	

Left hand suction spigot, deflector and blanking arrangement



Item	Part No	Qty	Description	
①	043043	1	Suction spigot	91,92
②	044603	1	Tube, deflector	91,92
③			Auto blanking, left hand	96
④	022644	1	Deflector	93,94,96

Suction spigot arrangement

Figure 62: Suction spigot arrangement

Item	Part No	Qty	Description	
①	043043	1	Suction spigot	90,92
②	013028	1	Suction nozzle hose	81,82
③	012933	2	Hose clamp, worm drive, No. 10.50 ($\varnothing 235\text{mm}$ - $\varnothing 267\text{mm}$)	
④			Additional water jets	228
⑤	044603	1	Tube, deflector	92,93
⑥	000110	4	Bolt M12 x 80	
⑦	011077	4	Nyloc nut M12	
⑧	042694	4	Spring	
⑨	043044	2	Spring seat, suction spigot	
⑩	039989	2	Washer, special	
⑪	011011	2	Set screw M8 x 25	
⑫	011092	4	Plain washer M8	
⑬	043392	2	Locking washer, suction spigot	
⑭	011073	2	Nyloc nut M8	

Suction deflector tube

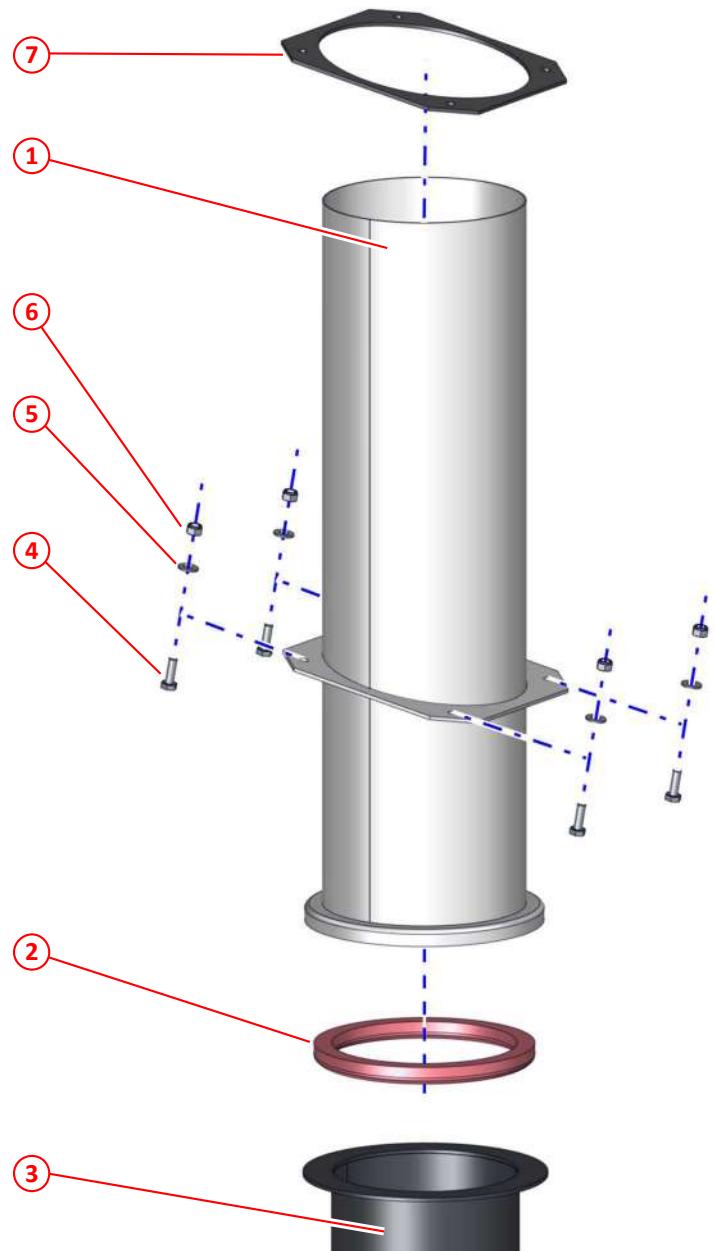
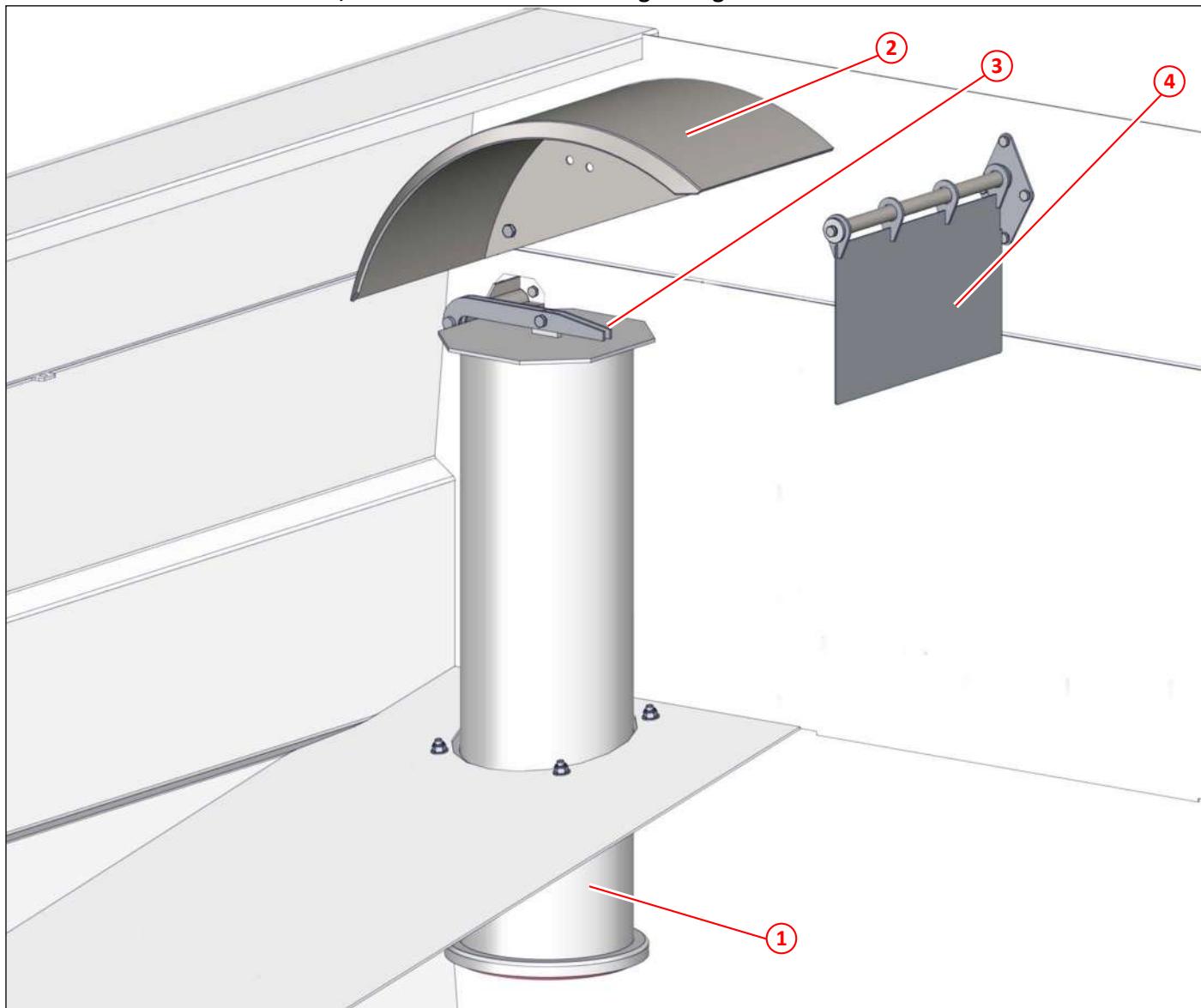


Figure 63: Suction deflector tube

Item	Part No	Qty	Description	
①	044603	1	Tube, deflector	90,91,92
①	051106	1	Tube, deflector, PU lined	141
②	039140	1	Seal, deflector tube	
③	043043	1	Suction spigot	90,91
③	051137	1	Suction spigot, PU lined	141
④	000285	4	Set screw M12 x 35, stainless steel	
⑤	000277	4	Plain washer M12, stainless steel	
⑥	000275	4	Nyloc nut M12, stainless steel	
⑦	044674	1	Gasket seal, deflector/hopper	

Left hand suction deflector tube, deflectors and auto blanking arrangement

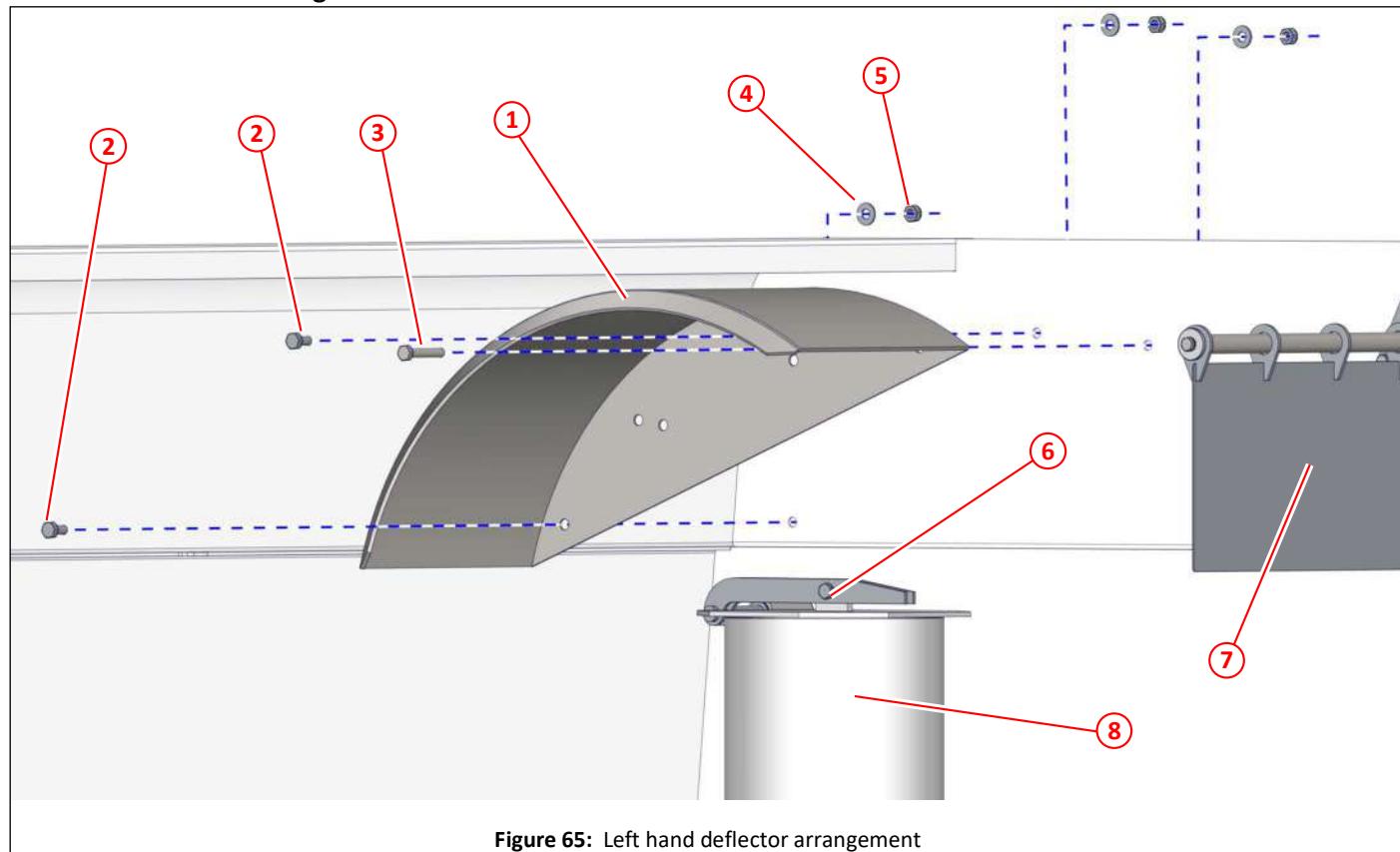


i Shown from inside cutaway hopper to help with clarity.

Figure 64: Left hand suction deflector tube, deflectors and auto blanking arrangement

Item	Part No	Qty	Description	
①	044603	1	Tube, deflector	90,91,92
①	051106	1	Tube, deflector, PU lined	141
②	022644	1	Deflector	90,94,96
③			Auto blanking, left hand	94,96,97
④			Deflector swing plate	94,95,141

Left hand deflector arrangement



Item	Part No	Qty	Description	
①	022644	1	Deflector	94,96
①		1	Deflector, PU lined	141
②	000273	2	Set screw M12 x 25, stainless steel	
③	011056	1	Bolt M12 x 70	
④	000277	4	Plain washer M12, stainless steel	
⑤	000275	4	Nyloc nut M12, stainless steel	
⑥			Auto blanking, left hand	96,97
⑦			Deflector swing plate	95,141
⑧	044603	1	Tube, deflector	90,91,92,93,141

Deflector swing plate arrangement

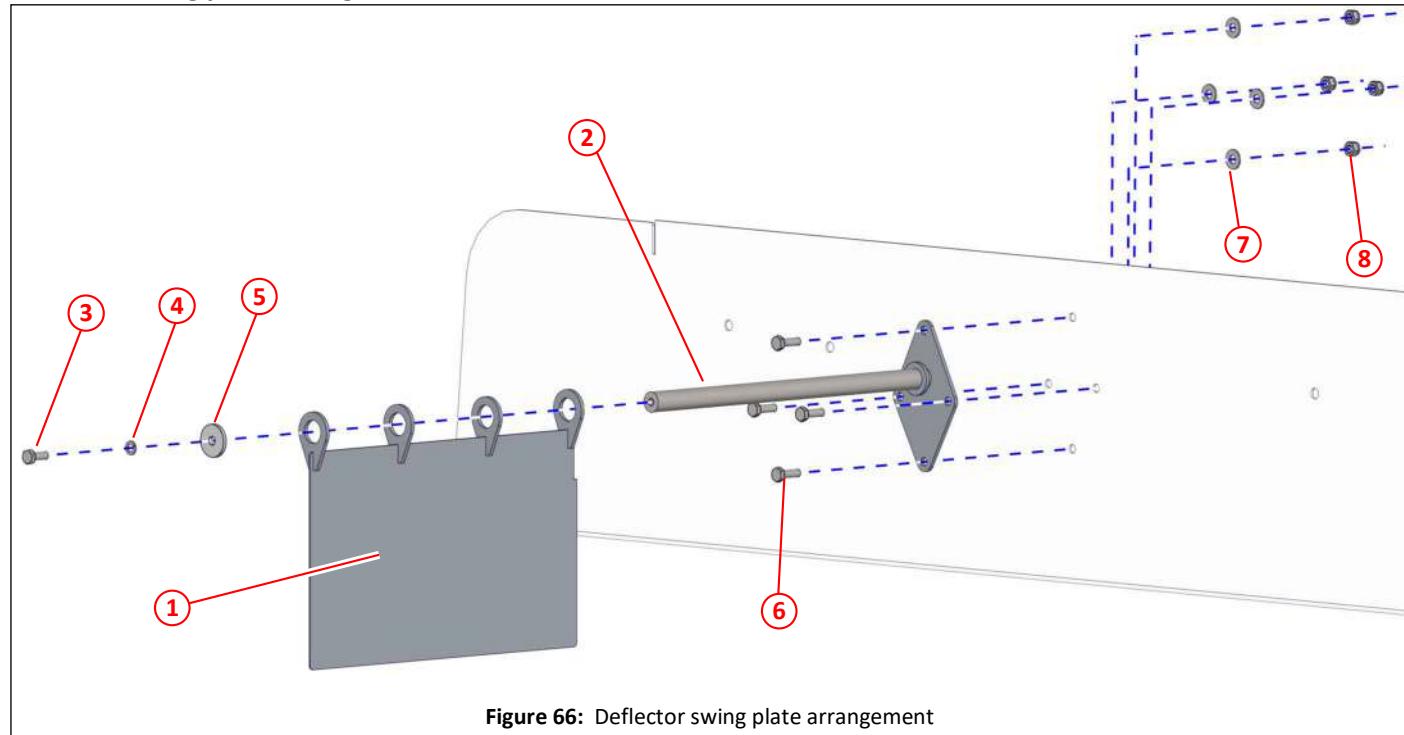
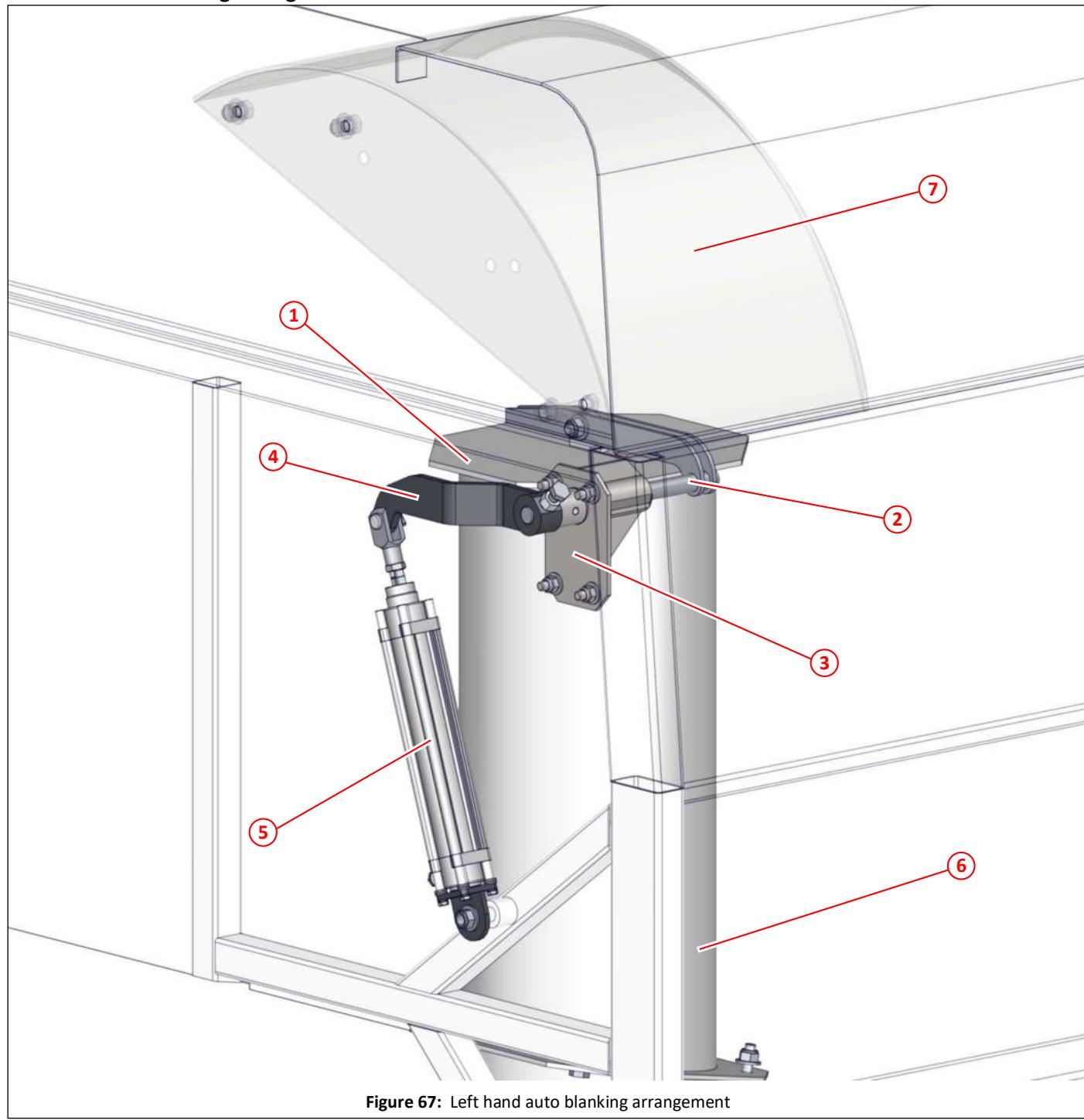


Figure 66: Deflector swing plate arrangement

Item	Part No	Qty	Description	
①	044618	1	Deflector swing plate	93,94
①	044606	1	Deflector swing plate, PU lined	141
②	044605	1	Mounting bar, deflector flap	
③	011031	1	Set screw M10 x 25	
④	011095	1	Spring washer M10	
⑤	030537	1	Washer ø10.5 x ø40 x 5	
⑥	011032	4	Set screw M10 x 30	
⑦	011094	4	Plain washer M10	
⑧	011075	4	Nyloc nut M10	

Left hand auto blanking arrangement



Item	Part No	Qty	Description	
①	021514	1	Flap lid, auto blanking	97,141
②	021517	1	Flap arm, auto blanking, left hand	97
③	021164	1	Pivot, auto blanking	97
④	034396	1	Lever arm, auto blanking, left hand	97
⑤	026319	1	Pneumatic cylinder, auto blanking, assembly	97,
⑥	044603	1	Tube, deflector	92,93,94,141
⑦	022644	1	Deflector	93,94,141

Left hand auto blanking

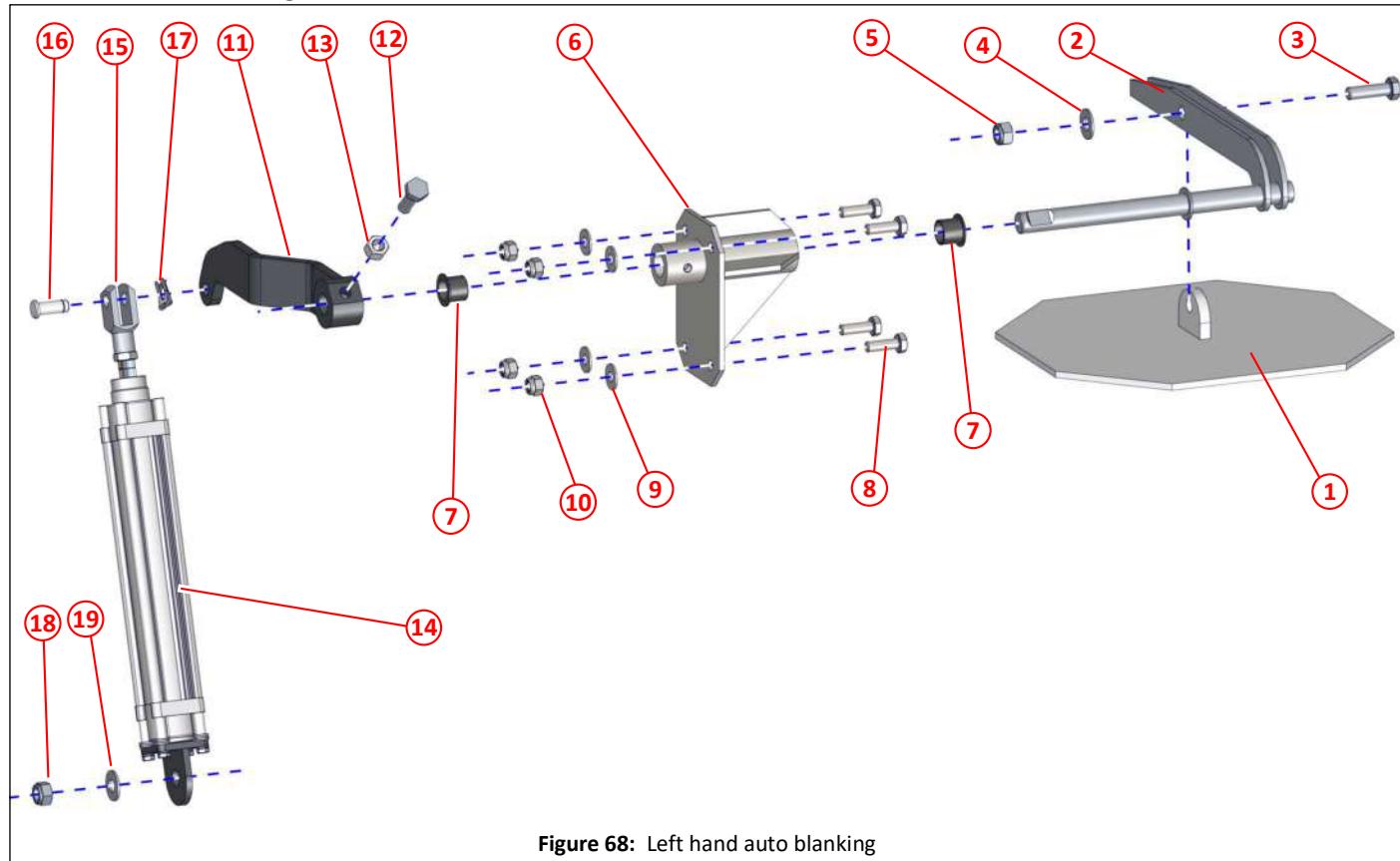
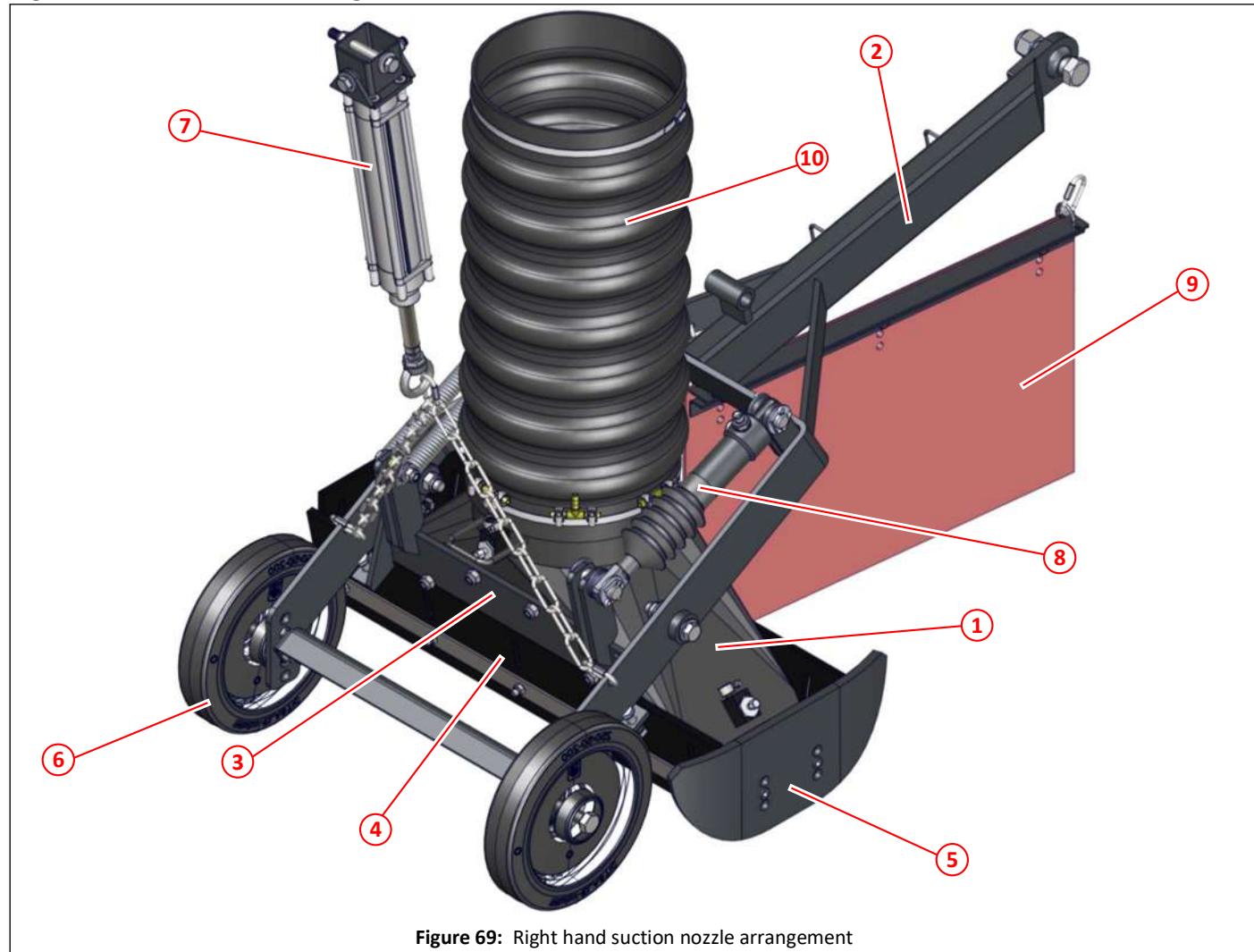


Figure 68: Left hand auto blanking

Item	Part No	Qty	Description	
①	021514	1	Flap lid, auto blanking	93,141
①	050717	1	Flap lid, auto blanking, PU lined	141
②	021517	1	Flap arm, auto blanking, left hand	93
③	000278	1	Set screw M12 x 1.25 x 40, stainless steel	
④	000277	1	Plain washer M12 x 1.25 fine, stainless steel	
⑤	000275	1	Nyloc nut M12, stainless steel	
⑥	021164	1	Pivot, auto blanking	96
⑦	013488	2	Bush	
⑧	011032	4	Set screw M10 x 30	
⑨	011094	4	Plain washer M10	
⑩	011075	4	Nyloc nut M10	
⑪	034396	1	Lever arm, auto blanking, left hand	96
⑫	000276	1	Set screw M12 x 1.25 x 35, stainless steel	
⑬	000279	1	Full nut M12 x 1.25 fine, stainless steel	
⑭	026319	1	Pneumatic cylinder, auto blanking, assembly	312
⑮	014469	1	Clevis	
⑯	02370	1	Clevis pin 12	
⑰	023269	1	Safety fastener 12	
⑱	000275	1	Nyloc nut M12, stainless steel	
⑲	000277	1	Plain washer M12 x 1.25 fine, stainless steel	

Right hand suction nozzle arrangement



Item	Part No	Qty	Description	
①	023604	1	Suction nozzle box	103,106
②	023606	1	Suction nozzle frame, right hand side	102,103,104,105
③	020328	1	Pivot, suction nozzle	103
④			Suction nozzle flap	106
⑤	013277	1	Skid plate, suction nozzle	110
⑥			Wheel	102
⑦			Suction nozzle lift, pneumatic cylinder	100
⑧			Suction nozzle tilt, hydraulic ram	103,104
⑨			Skirt	101
⑩	013028	1	Suction nozzle hose	99,108

Right hand suction nozzle hose

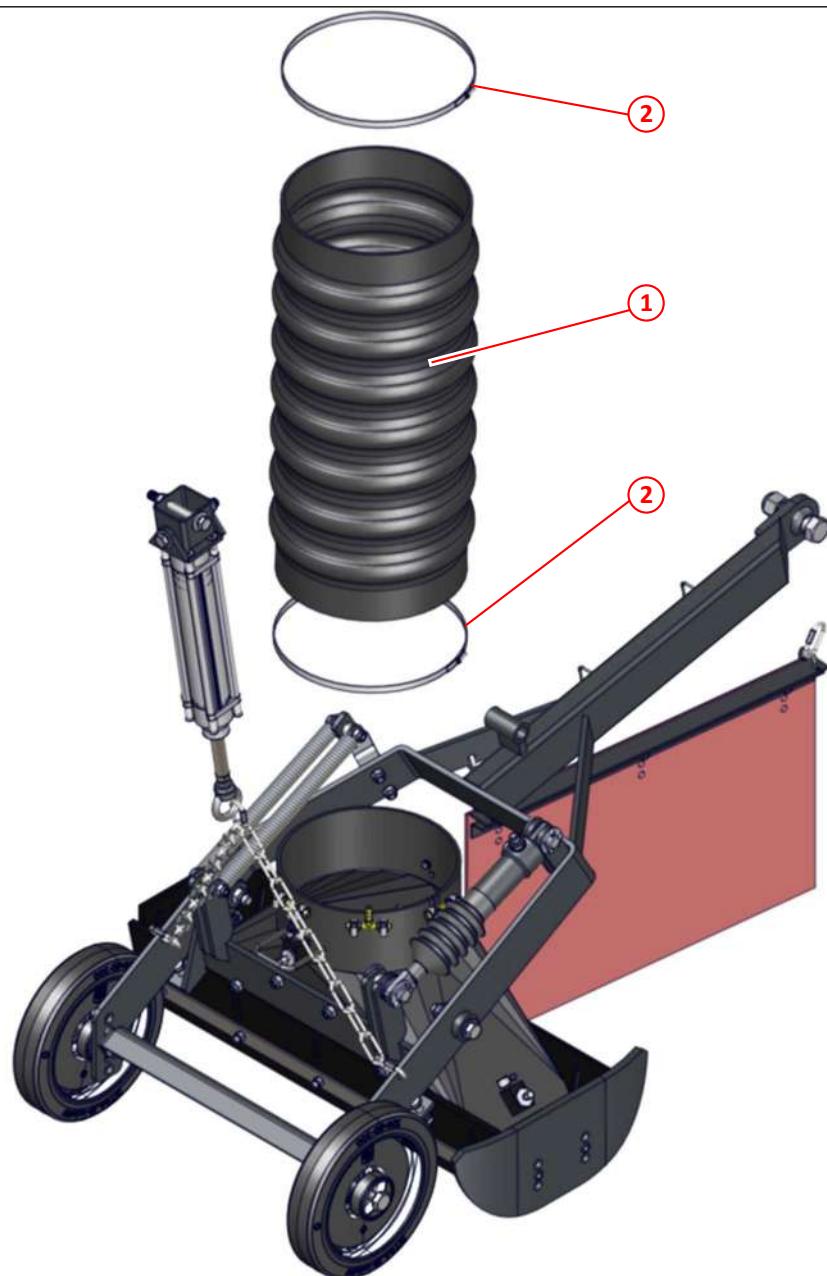
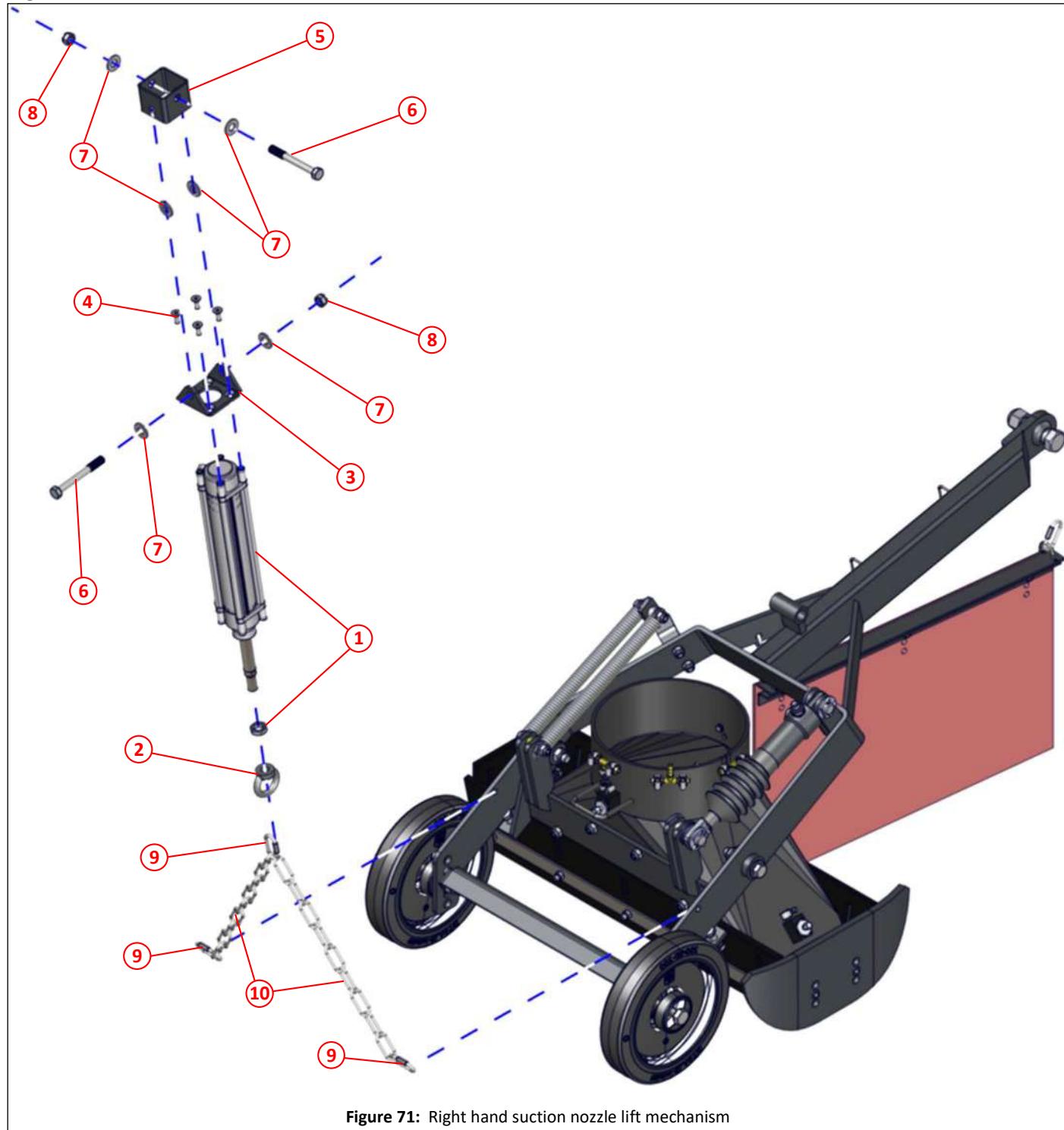


Figure 70: Right hand suction nozzle hose

Item	Part No	Qty	Description	
①	013028	1	Suction nozzle hose	98,108
②	012933	2	Hose clamp, worm drive, No. 10.50 ($\varnothing 235\text{mm}$ - $\varnothing 267\text{mm}$)	

Right hand suction nozzle lift mechanism



Item	Part No	Qty	Description	
①	030772	1	Pneumatic cylinder 50 x 200, suction nozzle lift, includes nut	309
②	032293	1	Ring nut, M16 x 1.5	
③	030777	1	Cylinder pivot, suction nozzle lift	
④	000003	4	Socket countersunk screw M8 x 20, plated	
⑤	030776	1	Cylinder pivot block, suction nozzle lift	
⑥	011057	2	Bolt M12 x 100	
⑦	011096	6	Plain washer M12	
⑧	011077	2	Nyloc nut M12	
⑨	010606	3	Carabiner	
⑩	010525	As req	Chain, large link	

Right hand suction nozzle skirt

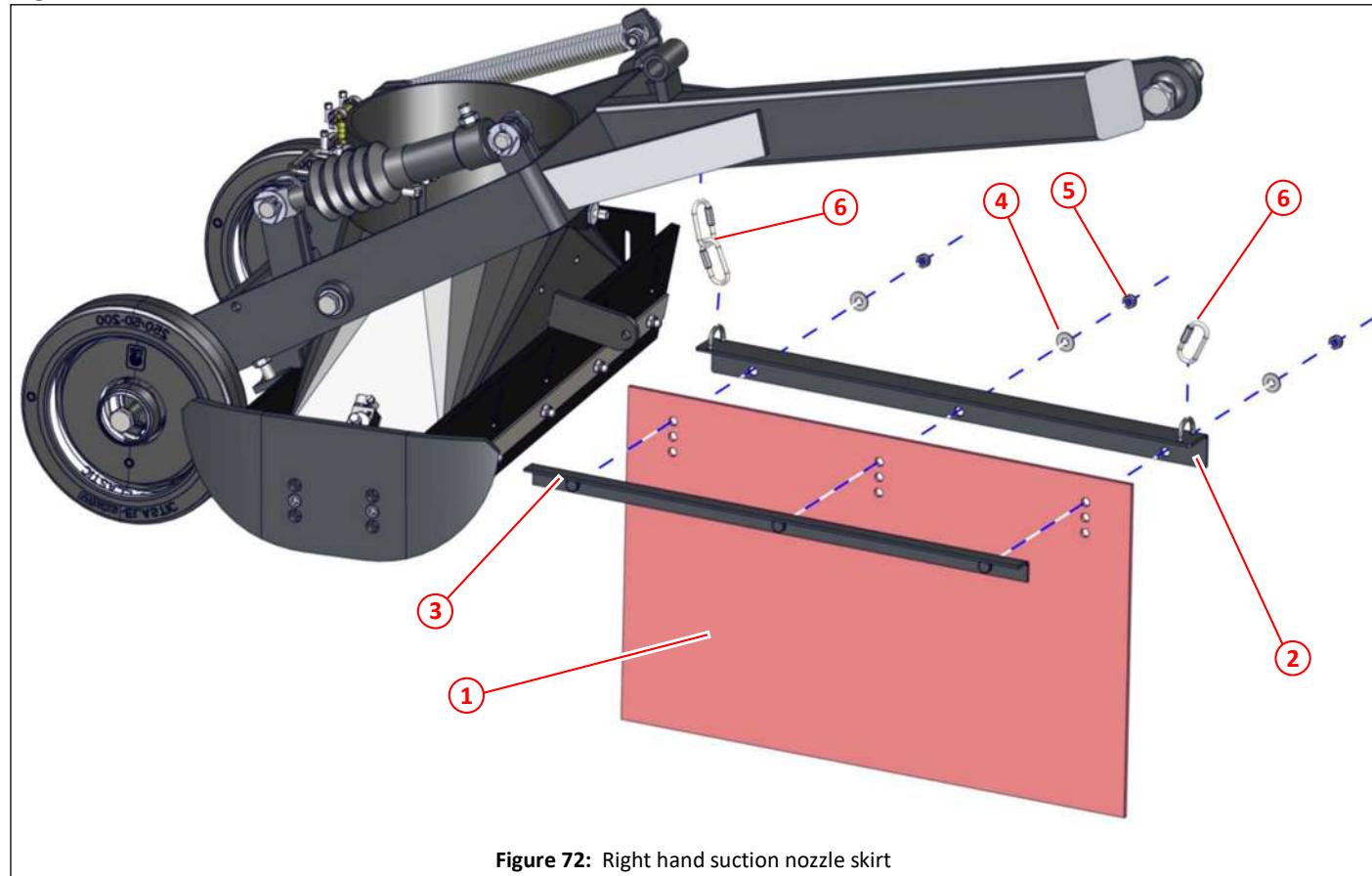
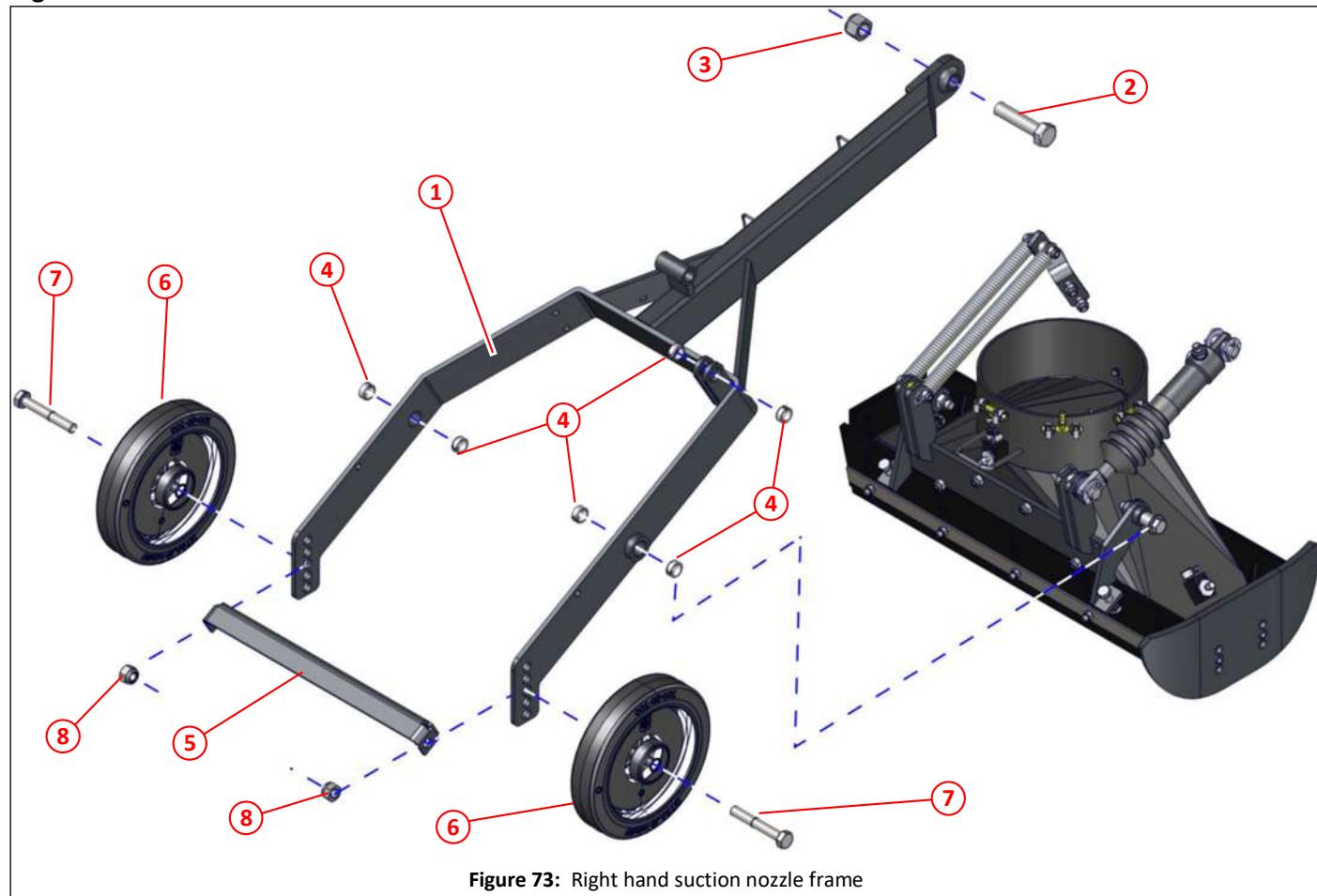


Figure 72: Right hand suction nozzle skirt

Item	Part No	Qty	Description	
①	010247	1	Skirt, 3-pitch, heavy duty	98
②	013145	1	Skirt angle	
③	010275	1	Skirt clamp	
④	011092	3	Plain washer M8	
⑤	011073	3	Nyloc nut M8	
⑥	010606	3	Carabiner	

Right hand suction nozzle frame



Item	Part No	Qty	Description	
①	023606	1	Nozzle frame, right hand side	98,103
②	011118	1	Bolt 7/8" UNF x 3 1/2"	
③	011119	1	Nyloc nut 7/8" UNF	
④	024682	6	Bush ø20 x ø25 x 10	
⑤	031833	1	Axle, nozzle	
⑥	031831	2	Wheel, nozzle	
⑦	011133	2	Bolt M16 x 100	
⑧	011060	2	Nyloc nut M16	

Right hand suction nozzle tilt pivot

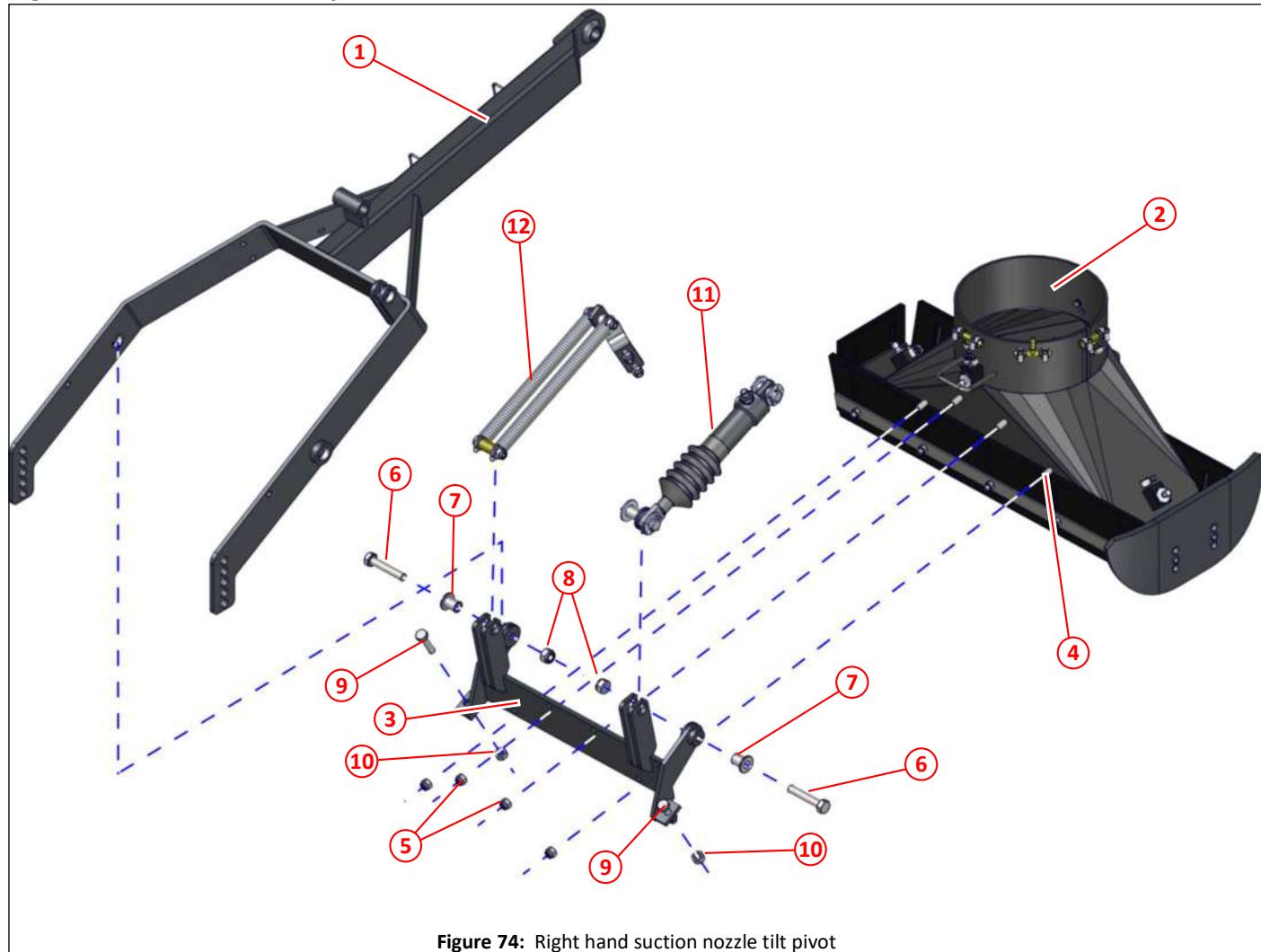


Figure 74: Right hand suction nozzle tilt pivot

Item	Part No	Qty	Description	
①	023606	1	Nozzle frame, right hand side	98,102,104,105
②	023604	1	Suction nozzle	98
③		1	Suction nozzle, PU lined	141
④	020328	1	Pivot, suction nozzle	98
⑤	011031	4	Set screw M10 x 25	
⑥	011075	4	Nyloc nut M10	
⑦	000351	2	Set screw M14 x 70	
⑧	021416	2	Sleeve	
⑨	011127	2	Nyloc nut M14	
⑩	011054	2	Set screw M12 x 45	
⑪	011076	2	Full nut M12	
⑫			Ram, nozzle tilt	98,104
⑬			Return springs	104,105

Right hand suction nozzle tilt ram

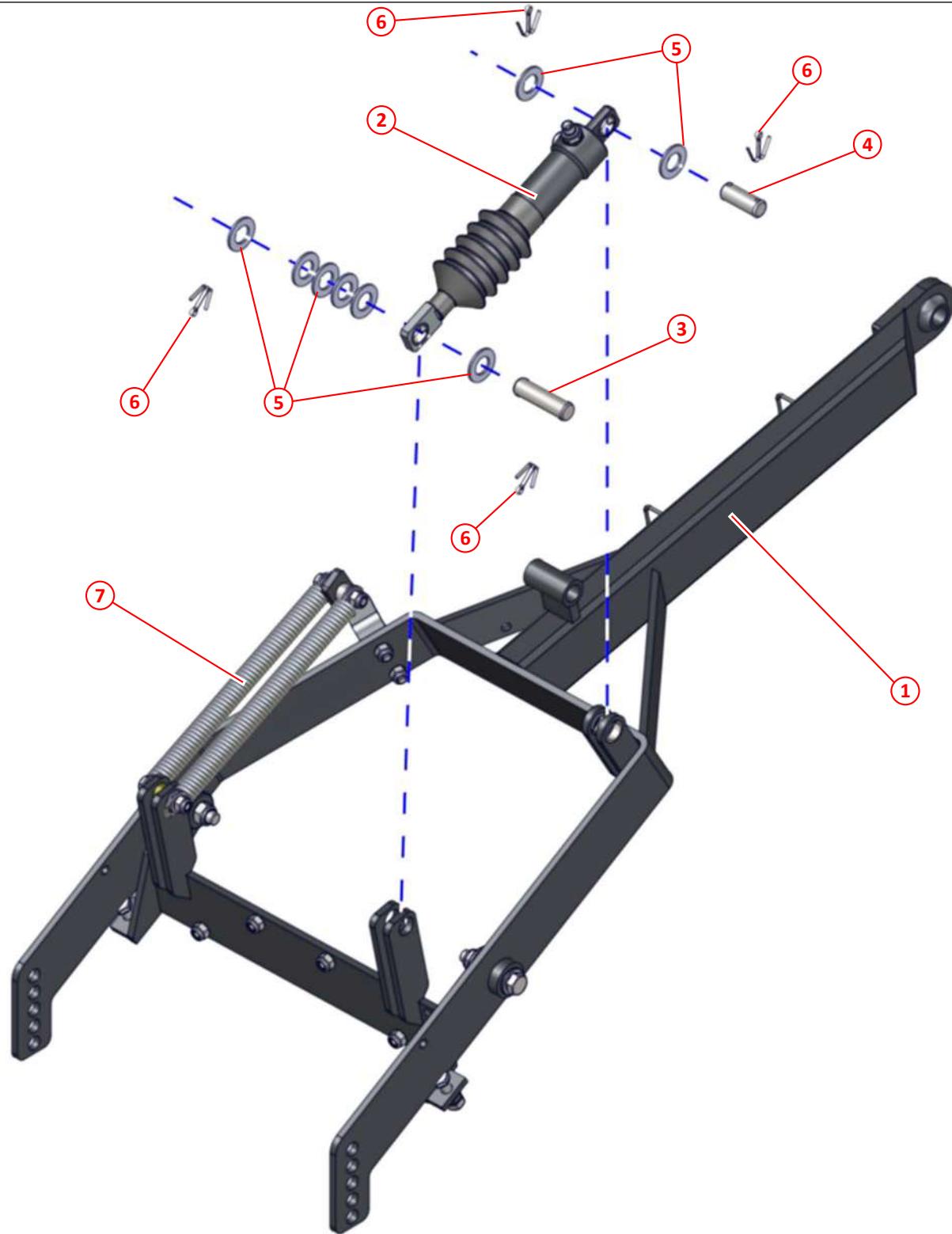


Figure 75: Right hand suction nozzle tilt ram

Item	Part No	Qty	Description	
①	023606	1	Nozzle frame, right hand side	98,102,103,105
②	041955	1	Ram, nozzle tilt assembly	98,103,274
③	014038	1	Pin ø20 x 70	
④	010067	1	Pin ø20 x 50	
⑤	011102	8	Plain washer M20	
⑥	011122	4	Split pin $\frac{3}{16}$ " x $1\frac{1}{2}$ "	
⑦			Return spring	105

Right hand suction nozzle tilt return springs

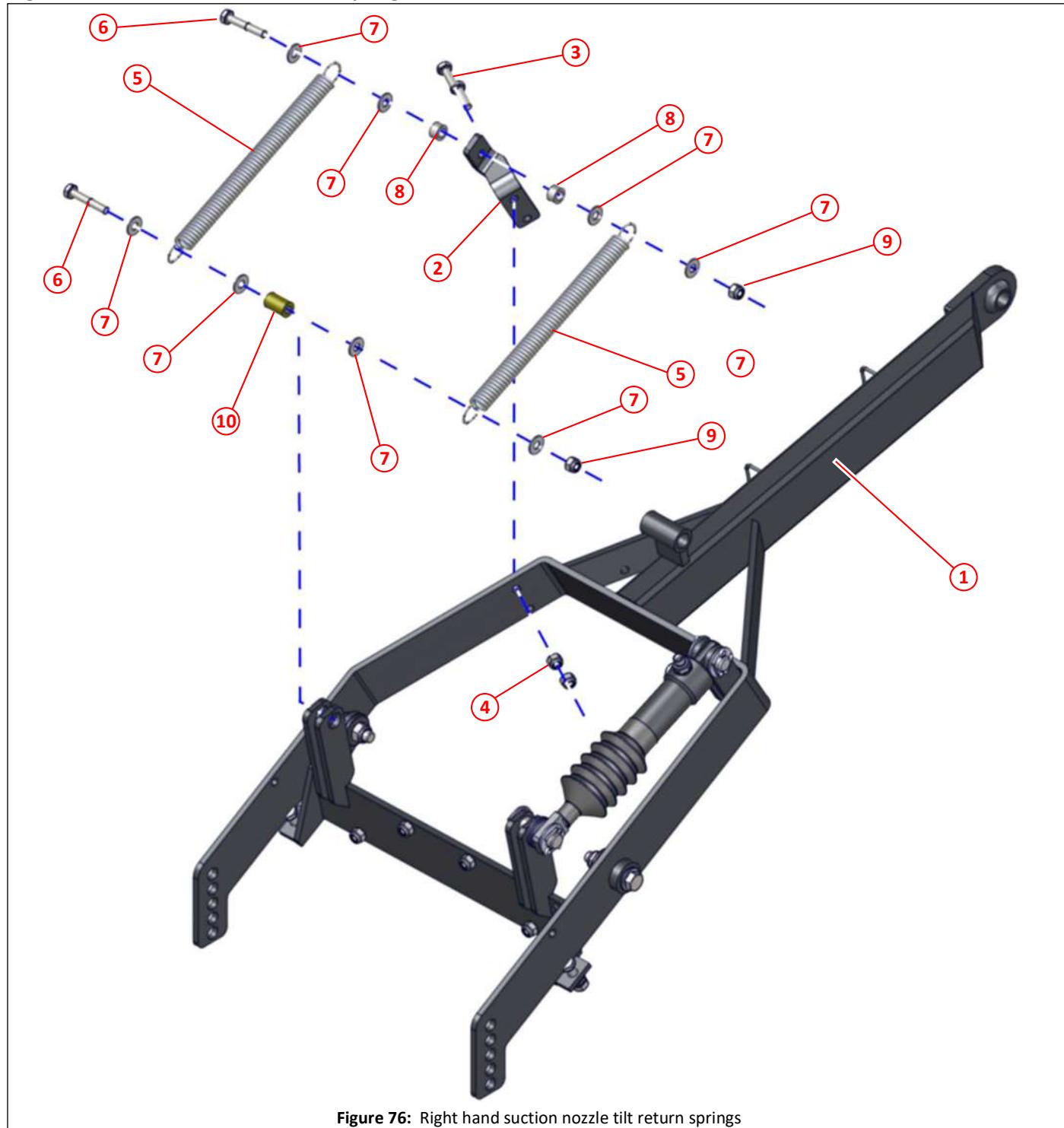
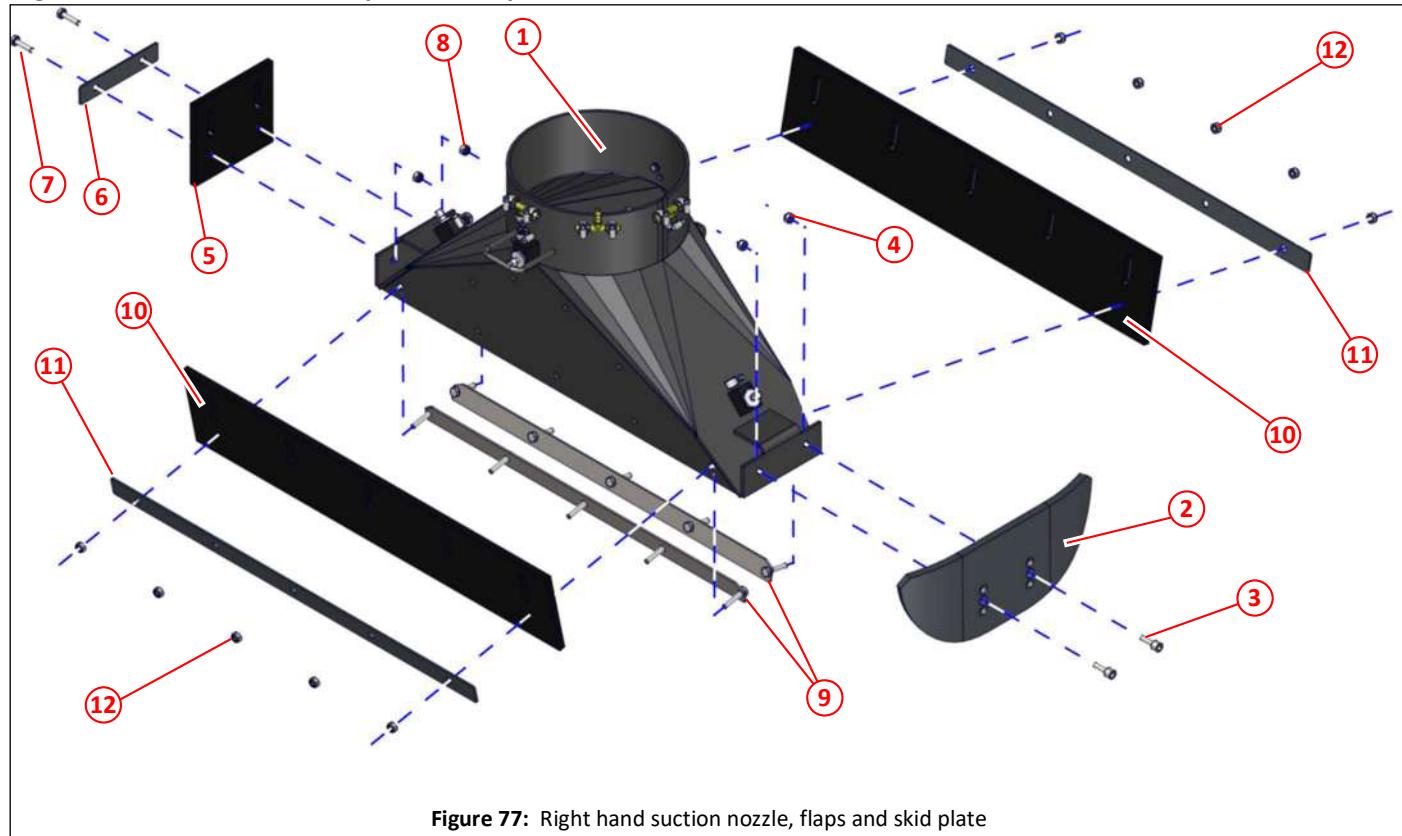


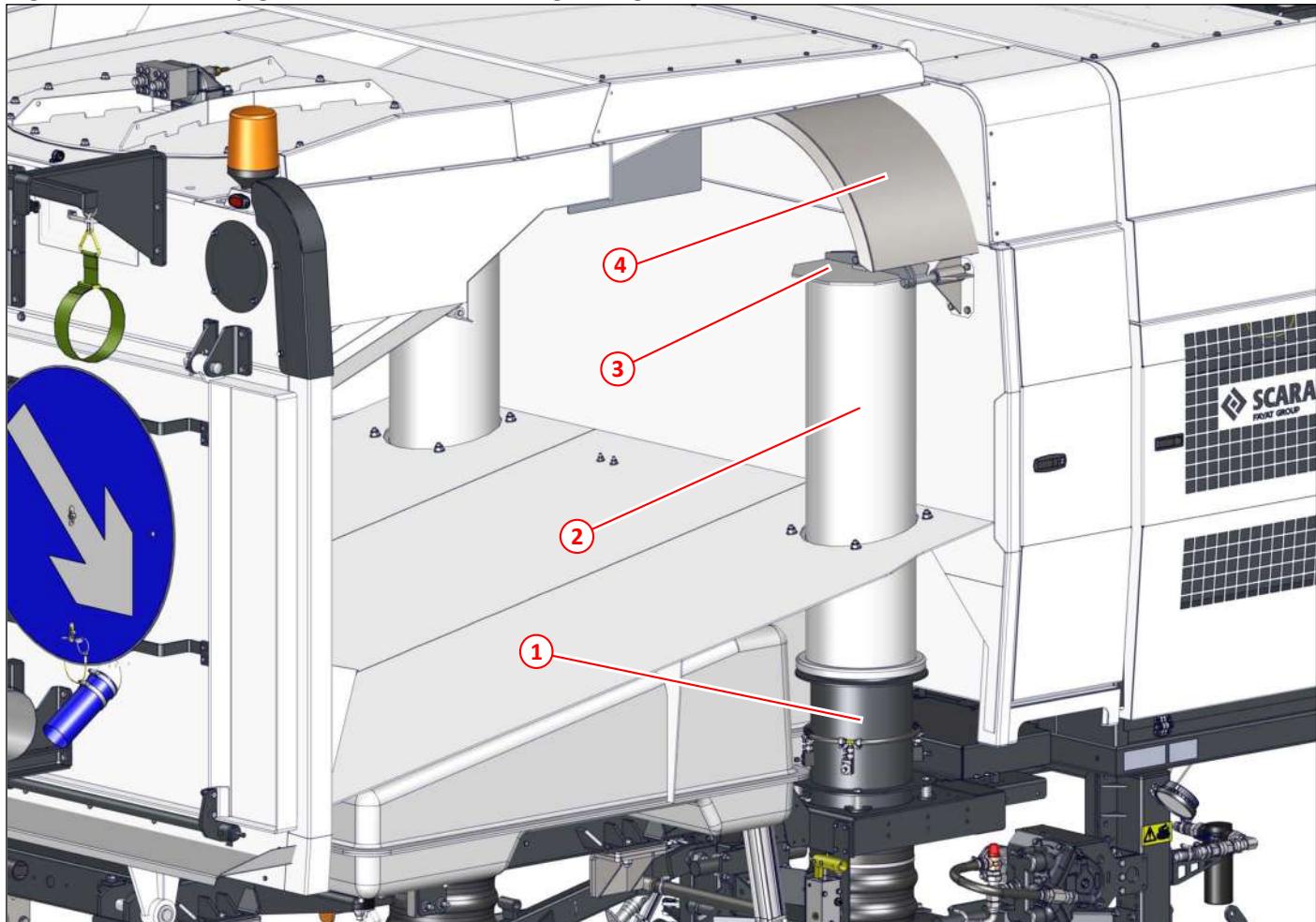
Figure 76: Right hand suction nozzle tilt return springs

Item	Part No	Qty	Description	
①	023606	1	Nozzle frame, right hand side	98,102,103,104
②	025099	1	Bracket, return spring	
③	011032	2	Set screw M10 x 30	
④	011075	2	Nyloc nut M10	
⑤	010017	2	Return spring	104
⑥	000040	2	Bolt M10 x 55	
⑦	011094	8	Plain washer M10	
⑧	011724	2	Spacer ø12.5 x ø20 x 11	
⑨	011075	2	Nyloc nut M10	
⑩	013363	1	Sleeve, spacer	

Right hand suction nozzle, flaps and skid plate



Item	Part No	Qty	Description	
①	023604	1	Suction nozzle	98,105
①		1	Suction nozzle, PU lined	141
②	013277	1	Skid plate, suction nozzle	98
③	011021	2	Socket cap screw M8 x 25	
④	011073	2	Nyloc nut M8	
⑤	013283	1	Flap, side, suction nozzle	
⑥	013024	1	Clamp, flap, side, suction nozzle	
⑦	011012	2	Set screw M8 x 30	
⑧	011073	2	Nyloc nut M8	
⑨	013362	2	Bolt retainer, flap, suction nozzle	
⑩	013023	2	Flap, front/rear, suction nozzle	
⑪	013025	2	Clamp, flap, front/rear, suction nozzle	
⑫	011073	10	Nyloc nut M8	
NI	024550		Flap kit, items ⑤ and 2 x ⑩	

Right hand suction spigot, deflector and blanking arrangement

Figure 78: Right hand suction spigot, deflector and blanking arrangement

Item	Part No	Qty	Description	
①	043043	1	Suction spigot	108,109
②	044603	1	Tube, deflector	108,109,110,111,113
③			Auto blanking, right hand	110,111,113,114
④	022644	1	Deflector	108,109,110,111,113

Suction spigot arrangement

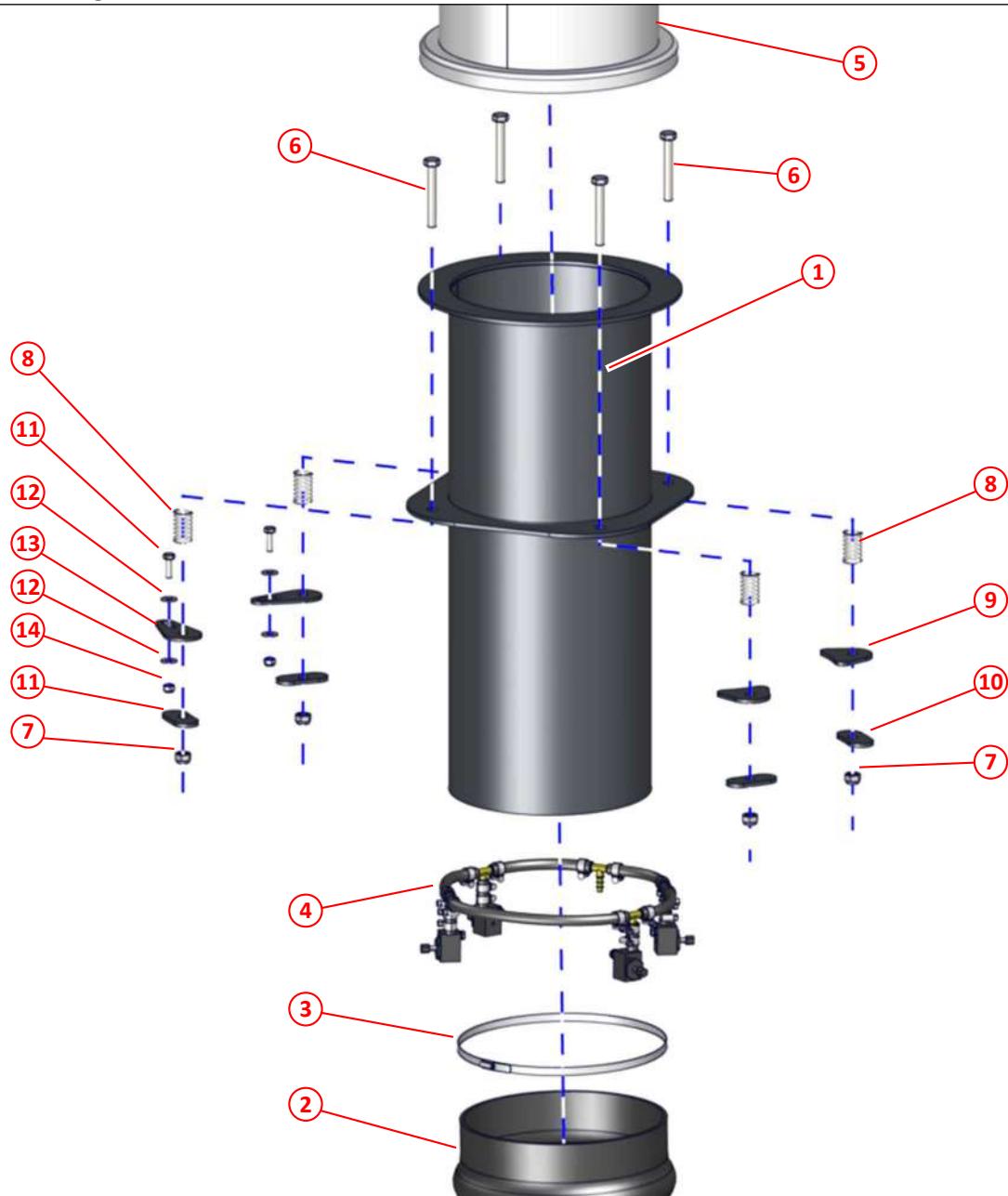


Figure 79: Suction spigot arrangement

Item	Part No	Qty	Description	
①	043043	1	Suction spigot	107,109,141
②	013028	1	Suction nozzle hose	98,99
③	012933	2	Hose clamp, worm drive, No. 10.50 ($\phi 235\text{mm}$ - $\phi 267\text{mm}$)	
④			Additional water jets	228
⑤	044603	1	Tube, deflector	107,109,110,111,113,141
⑥	000110	4	Bolt M12 x 80	
⑦	011077	4	Nyloc nut M12	
⑧	042694	4	Spring	
⑨	0430443	2	Spring seat, suction spigot	
⑩	039989	2	Washer, special	
⑪	011011	2	Set screw M8 x 25	
⑫	011092	4	Plain washer M8	
⑬	043392	2	Locking washer, suction spigot	
⑭	011073	2	Nyloc nut M8	

Suction deflector tube

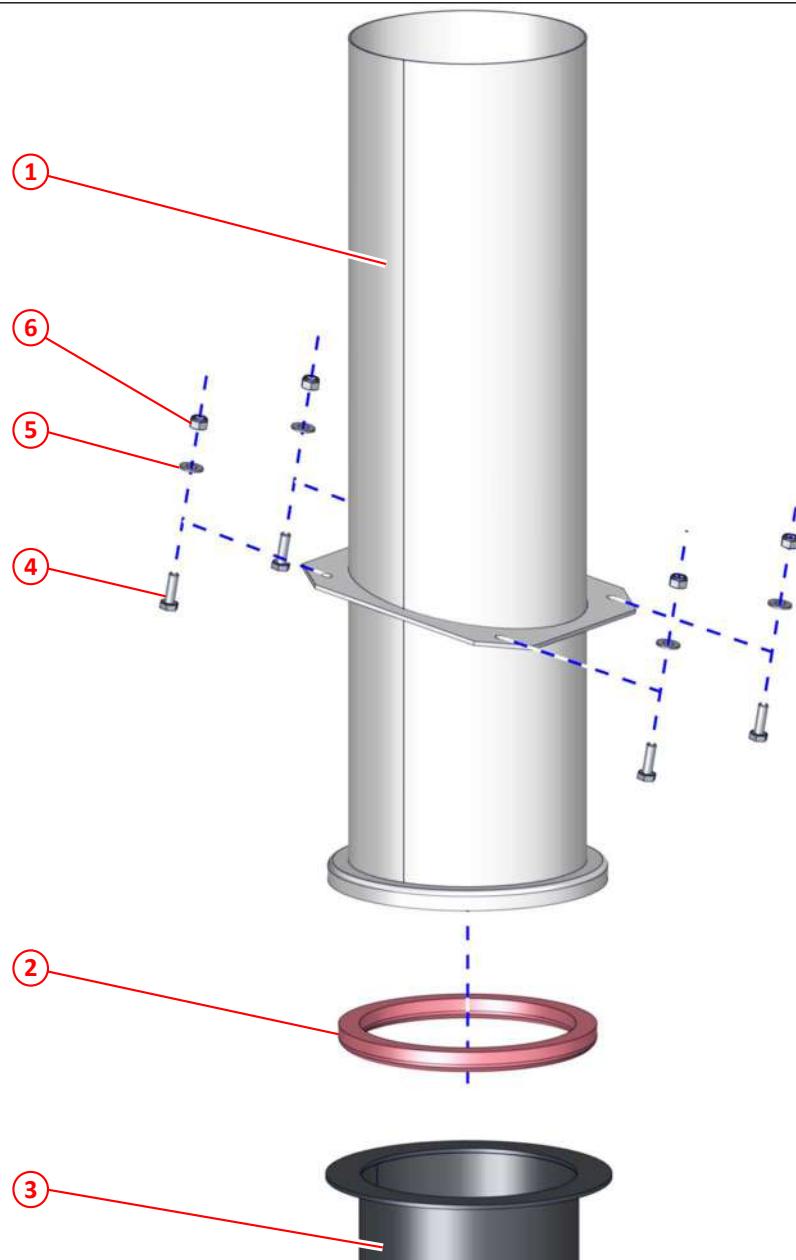
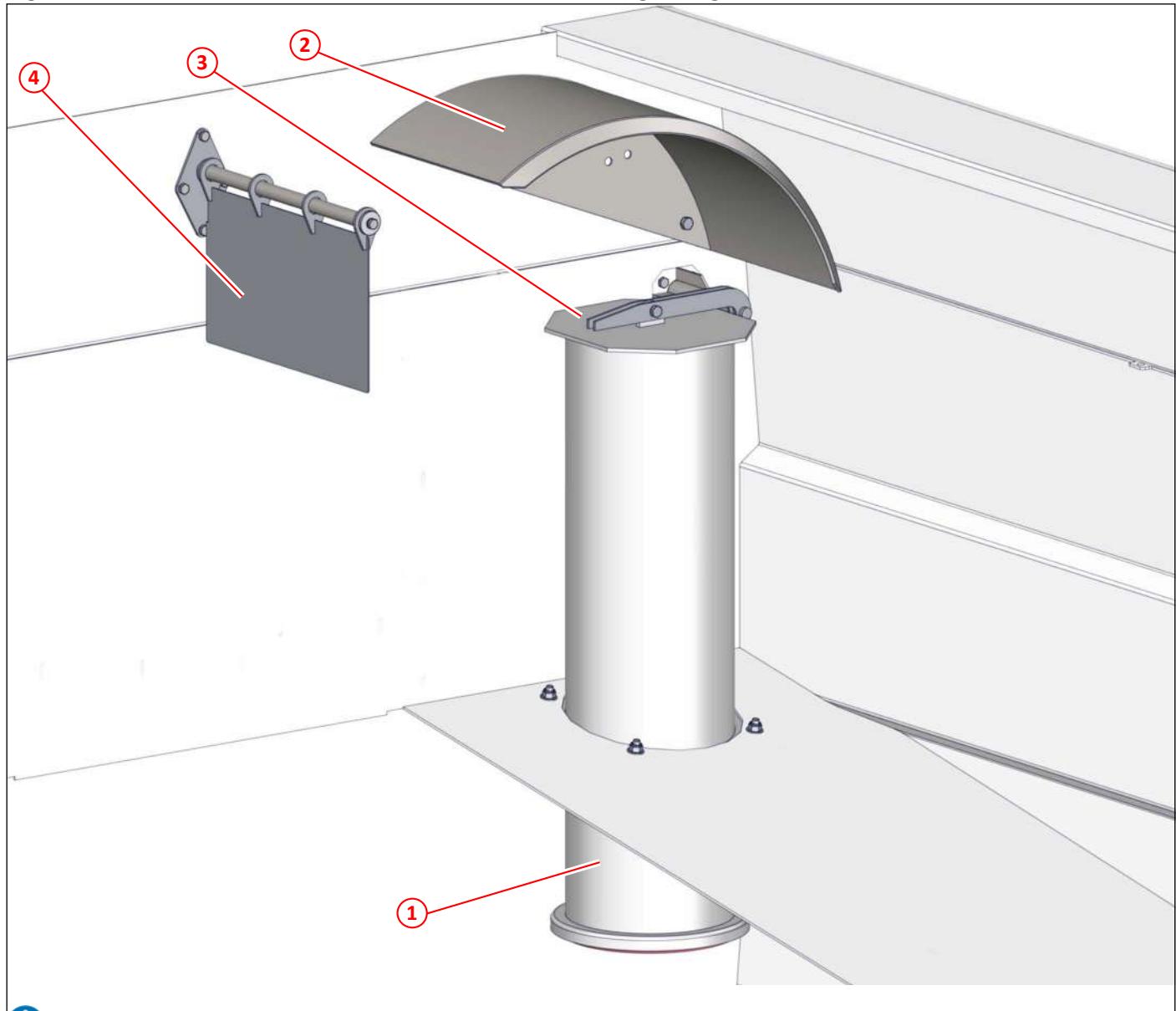


Figure 80: Suction deflector tube

Item	Part No	Qty	Description	
①	044603	1	Tube, deflector	107,108,110,111,113,170
①	051137	1	Tube, deflector, PU lined	141
②	013601	1	Seal, tube deflector	
③	043043	1	Suction spigot	107,108
④	000285	4	Set screw M12 x 35, stainless steel	
⑤	000277	4	Plain washer M12, stainless steel	
⑥	000275	4	Nyloc nut M12, stainless steel	

Right hand suction deflector tube, deflectors and auto blanking arrangement


i Shown from inside cutaway hopper to help with clarity.

Figure 81: Right hand suction deflector tube, deflectors and auto blanking arrangement

Item	Part No	Qty	Description	
①	044603	1	Tube, deflector	107,108,109,111,113,141
②	022644	1	Deflector	107,108,109,111,113,141
③			Auto blanking flap, right hand	107,111,113,114
④			Deflector swing plate	111,112

Right hand deflector arrangement

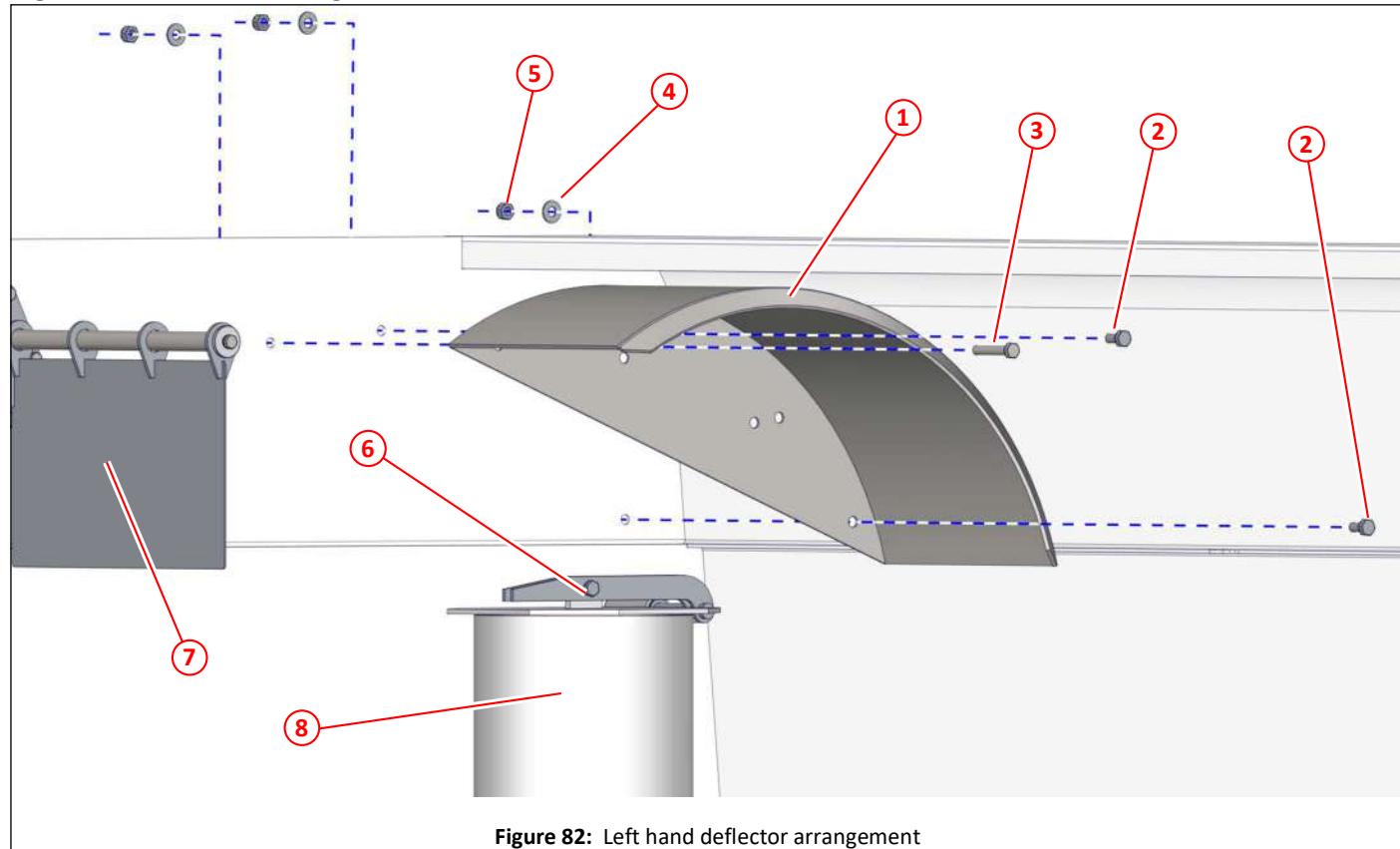
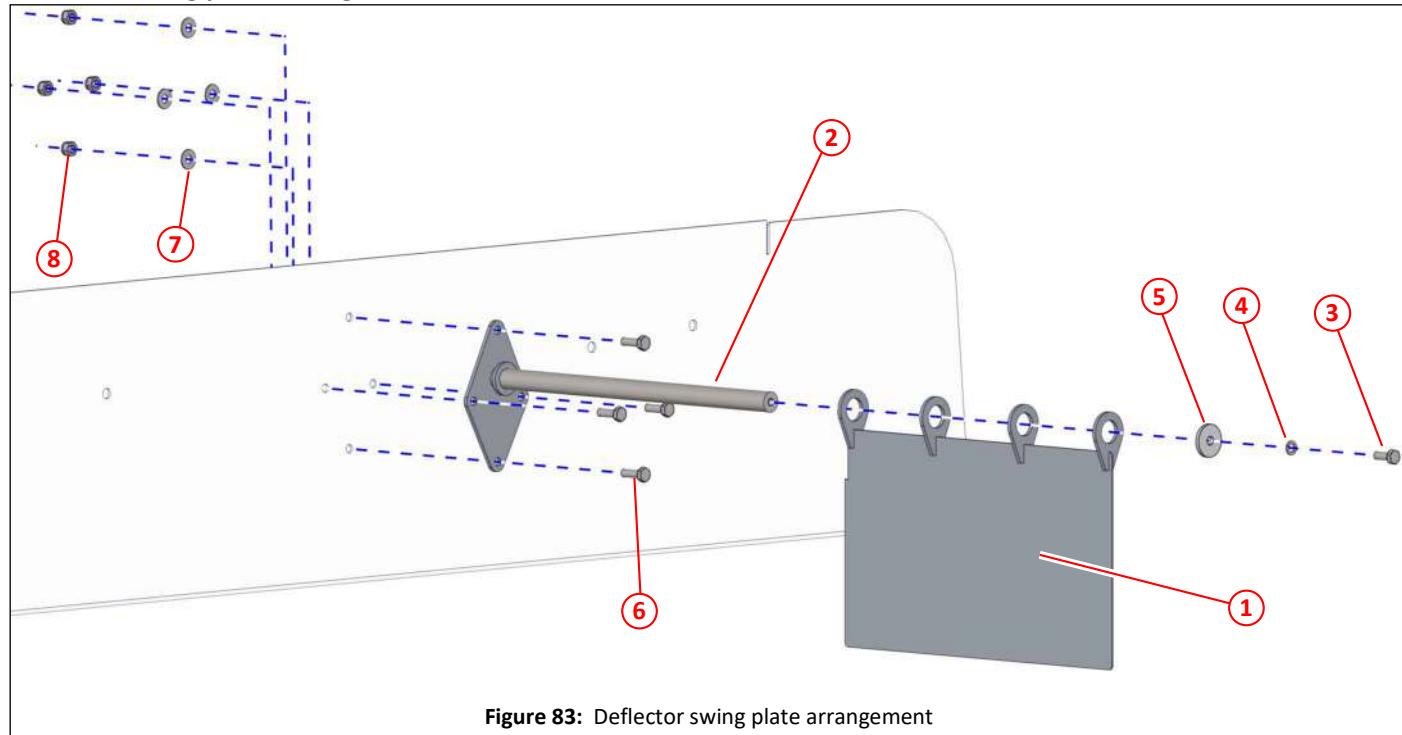


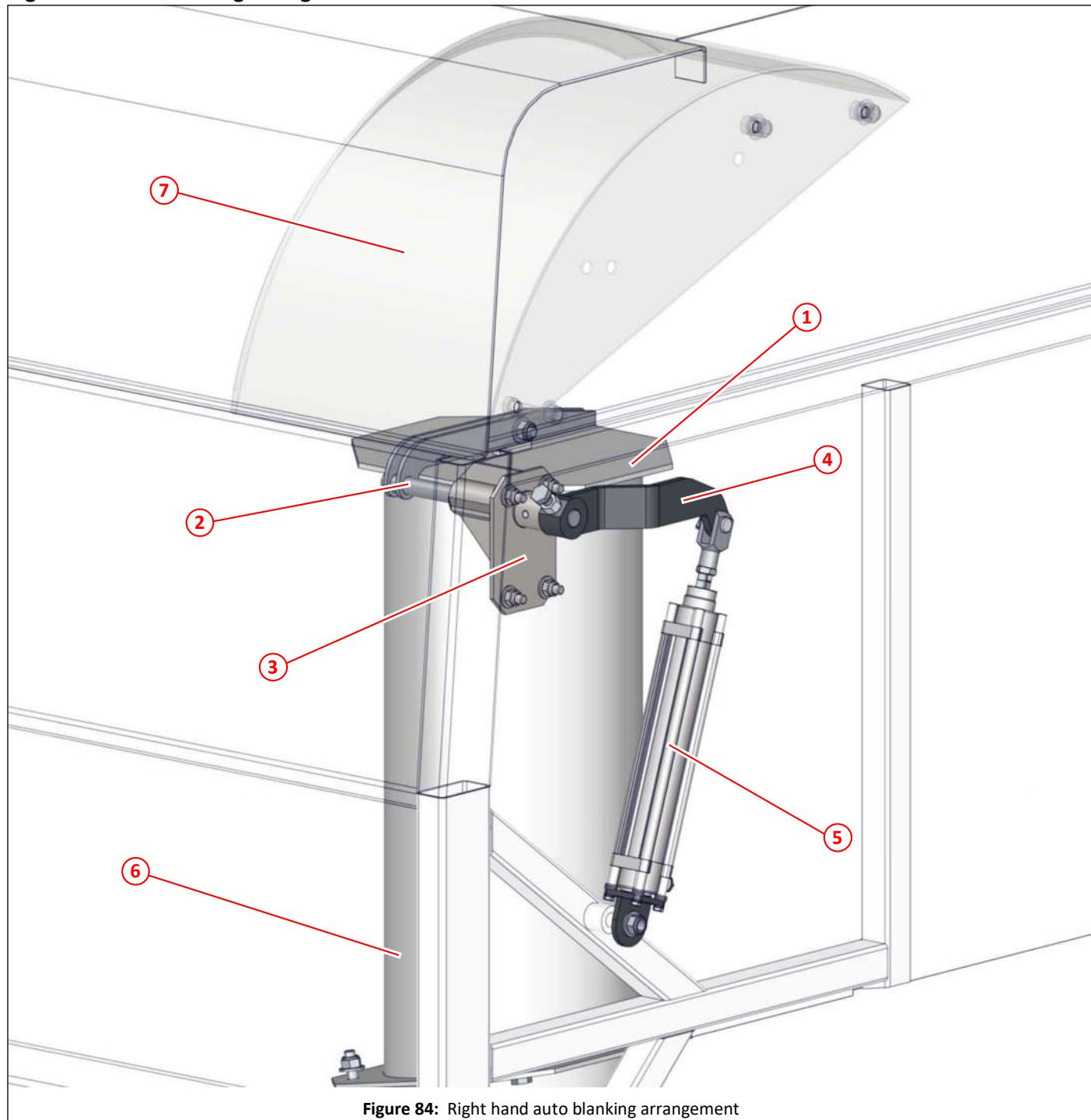
Figure 82: Left hand deflector arrangement

Item	Part No	Qty	Description	
①	022644	1	Deflector	108,109,110,113,141
②	000273	2	Set screw M12 x 25, stainless steel	
③	011056	1	Bolt M12 x 70	
④	000277	4	Plain washer M12, stainless steel	
⑤	000275	4	Nyloc nut M12, stainless steel	
⑥			Auto blanking flap, right hand	107,110,113,114,141
⑦			Deflector swing plate	110,112,141
⑧	044603	1	Tube, deflector	107,108,109,110,113,141

Deflector swing plate arrangement



Item	Part No	Qty	Description	
①	044618	1	Deflector swing plate	110,111
①	044606	1	Deflector swing plate, PU lined	141
②	044605	1	Mounting bar, deflector flap	
③	011031	1	Set screw M10 x 25	
④	011095	1	Spring washer M10	
⑤	030537	1	Washer ø10.5 x ø40 x 5	
⑥	011032	4	Set screw M10 x 30	
⑦	011094	4	Plain washer M10	
⑧	011075	4	Nyloc nut M10	

Right hand auto blanking arrangement


Item	Part No	Qty	Description	
①	021514	1	Flap lid, auto blanking	107,110,111,114,170,141
②	021518	1	Flap arm, auto blanking, right hand	114
③	021164	1	Pivot, auto blanking	114
④	034397	1	Lever arm, auto blanking, right hand	114
⑤	026319	1	Pneumatic cylinder, auto blanking, assembly	114
⑥	044603	1	Tube, deflector	107,108,109,110,111,141
⑦	022644	1	Deflector	108,109,110,111,141

Right hand auto blanking

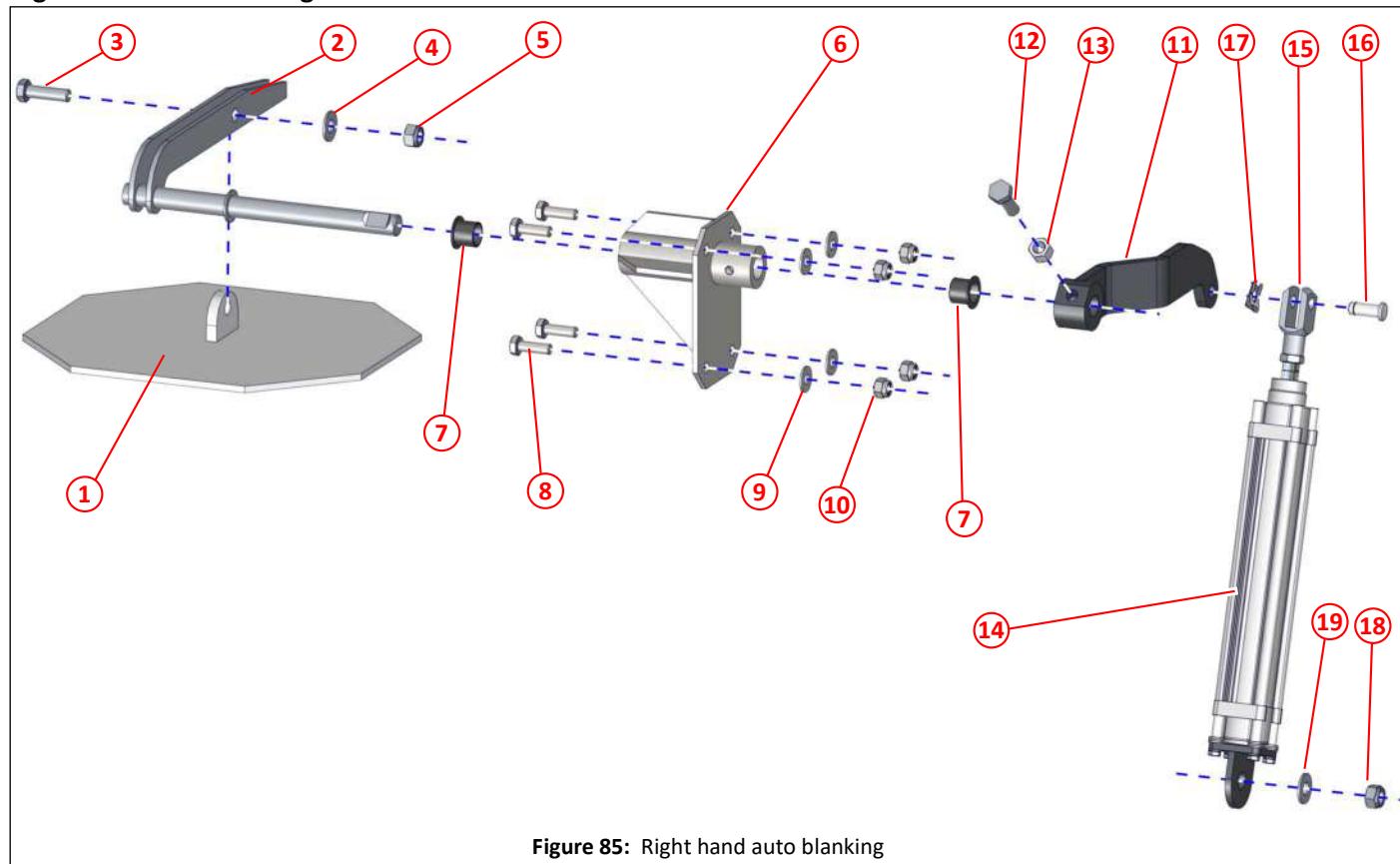


Figure 85: Right hand auto blanking

Item	Part No	Qty	Description	
①	021514	1	Flap lid, auto blanking	107,110,111,113
①	050717	1	Flap lid, auto blanking, PU lined	141
②	021518	1	Flap arm, auto blanking, right hand	113
③	000278	1	Set screw M12 x 1.25 x 40, stainless steel	
④	000277	1	Plain washer M12 x 1.25 fine, stainless steel	
⑤	000275	1	Nyloc nut M12, stainless steel	
⑥	021164	1	Pivot, auto blanking	113
⑦	013488	2	Bush	
⑧	011032	4	Set screw M10 x 30	
⑨	011094	4	Plain washer M10	
⑩	011075	4	Nyloc nut M10	
⑪	034397	1	Lever arm, auto blanking, right hand	113
⑫	000276	1	Set screw M12 x 1.25 x 35, stainless steel	
⑬	000279	1	Full nut M12 x 1.25 fine, stainless steel	
⑭	026319	1	Pneumatic cylinder, auto blanking, assembly	312
⑮	014469	1	Clevis	
⑯	02370	1	Clevis pin 12	
⑰	023269	1	Safety fastener 12	
⑱	000275	1	Nyloc nut M12, stainless steel	
⑲	000277	1	Plain washer M12 x 1.25 fine, stainless steel	

Left hand rear wander hose arrangement

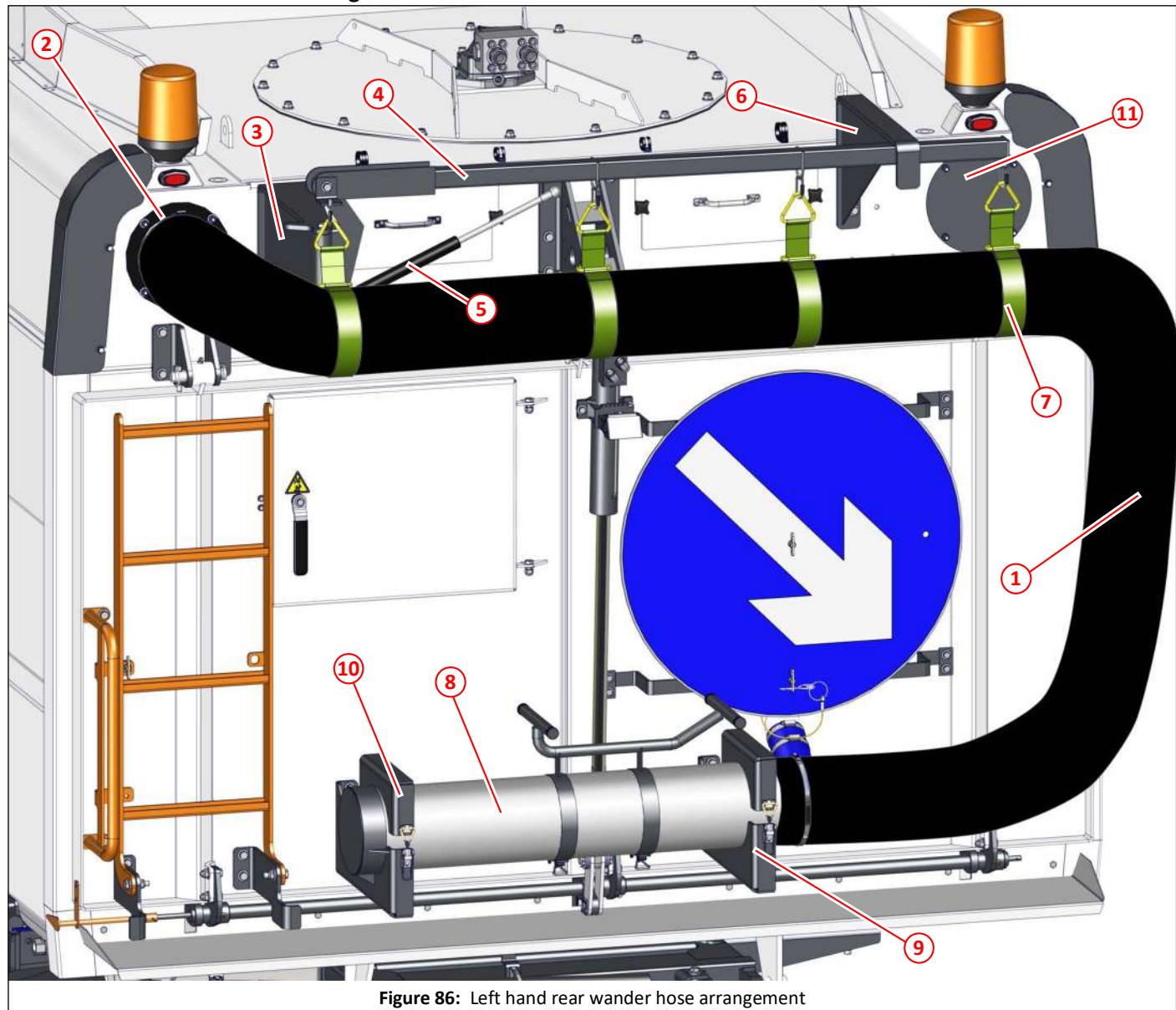
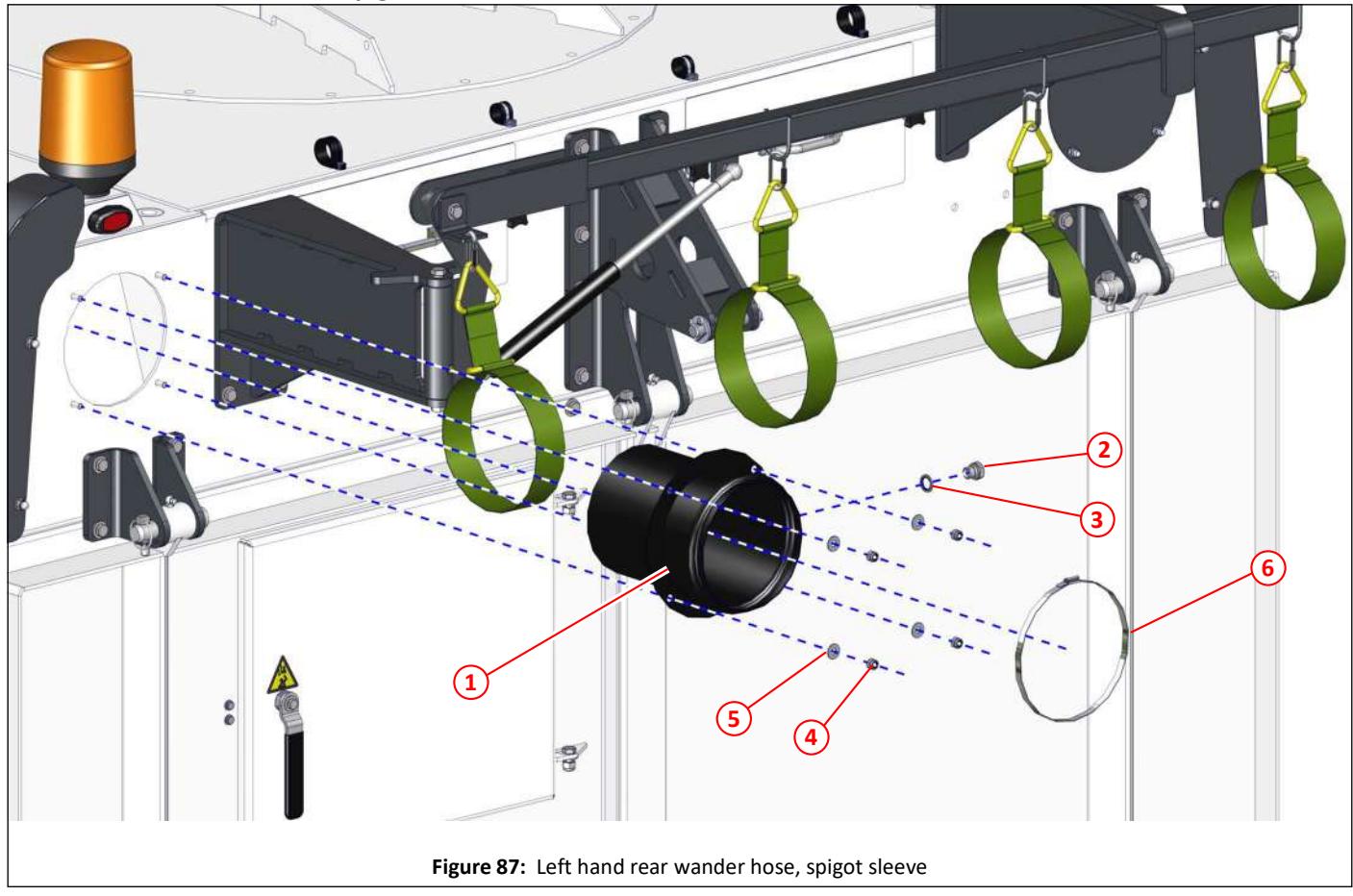


Figure 86: Left hand rear wander hose arrangement

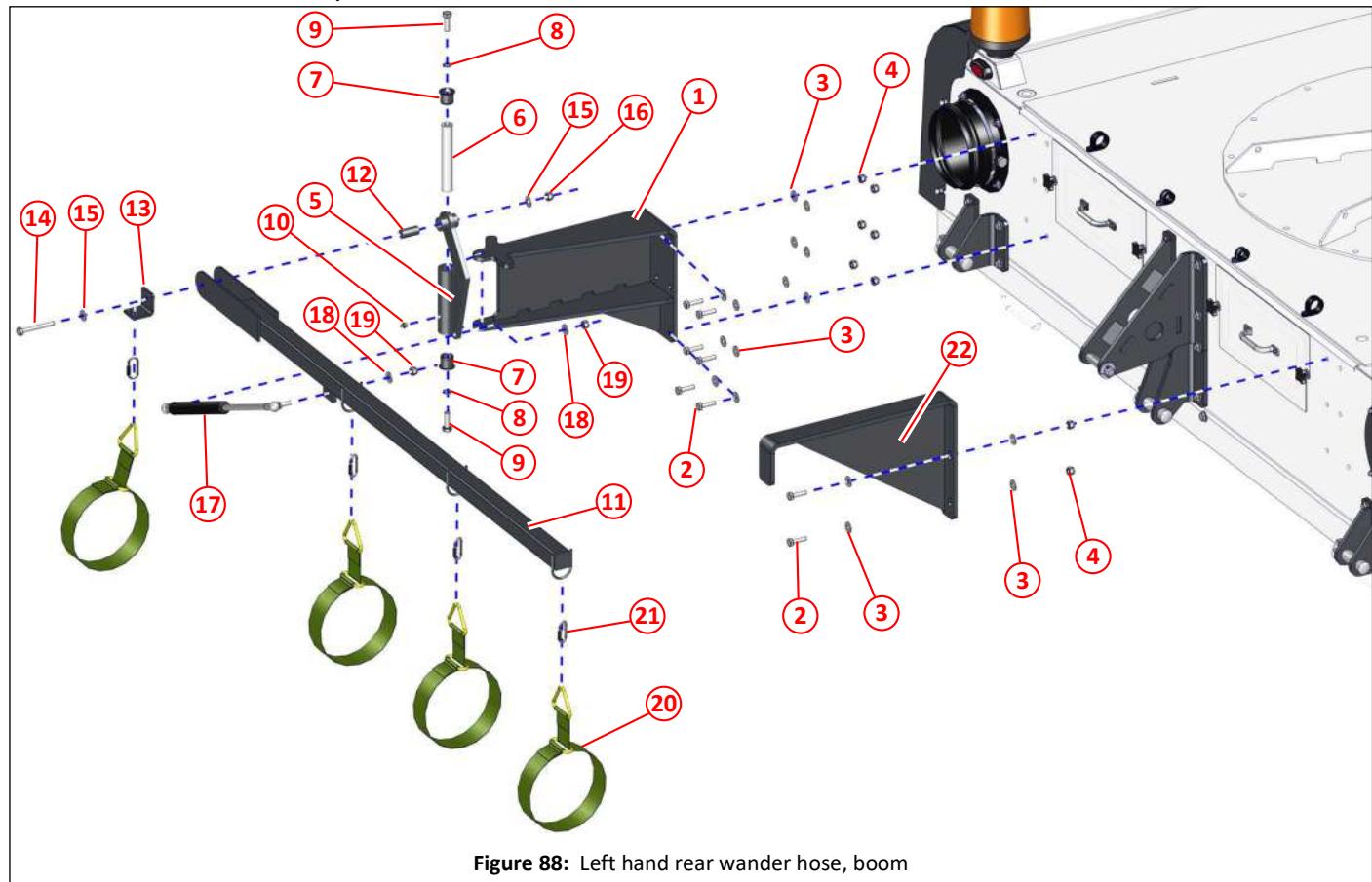
Item	Part No	Qty	Description	
①	036062	3m	Wander hose ø180	118
②	025225	1	Spigot sleeve, wander hose	116
③	034312	1	Boom hinge, left hand	117
④	0252218	1	Boom, support, wander hose	117
⑤	021993	1	Gas strut	117
⑥	034313	1	Stowage hook, wander boom	117
⑦	025235	4	Straps, wander hose	117
⑧	035959	1	Tube, wander hose	118
⑨		1	Stowage bracket, wander hose tube	118
⑩		1	Stowage cup, wander hose tube	118
⑪	025486	1	Cover, wander hose duct	159

Left hand rear wander hose, spigot sleeve



Item	Part No	Qty	Description	
①	025225	1	Spigot sleeve, rear wander hose	115
②	011242	1	Plug $\frac{3}{8}$ " BSP	
③	011153	1	Dowty seal $\frac{3}{8}$ " BSP	
④	000263	4	Nyloc nut M8, stainless steel	
⑤	000264	4	Plain washer M8, stainless steel	
⑥	012932	1	Hose clamp, worm drive, No. 8.50 (\varnothing 184mm- \varnothing 216mm)	

Left hand rear wander hose, boom



Item	Part No	Qty	Description
①	034312	1	Bracket, wander hose boom hinge, left hand
②	011033	8	Set screw M10 x 35
③	011094	16	Plain washer M10
④	011075	8	Nyloc nut M10
⑤	025219	1	Hinge, wander hose boom
⑥	023490	1	Shaft, wander hose boom hinge
⑦	013662	2	Bush
⑧	011097	2	Spring washer M12
⑨	011053	2	Set screw M12 x 35
⑩	010903	1	Grease nipple $\frac{1}{8}$ " BSP, straight
⑪	025218	1	Boom, support wander hose
⑫	014399	1	Spacer, sleeve $\varnothing 10.5 \times \varnothing 20 \times 41$
⑬	012548	1	Bracket, angle
⑭	011038	1	Bolt M10 x 80
⑮	011094	2	Plain washer M10
⑯	011075	1	Nyloc nut M10
⑰	021993	1	Gas strut
⑱	011094	2	Plain washer M10
⑲	011075	2	Nyloc nut M10
⑳	025235	4	Strap, wander hose
㉑	010606	4	Carabiner
㉒	034313	1	Hook, boom stowage

Left hand rear wander hose, nozzle stowage

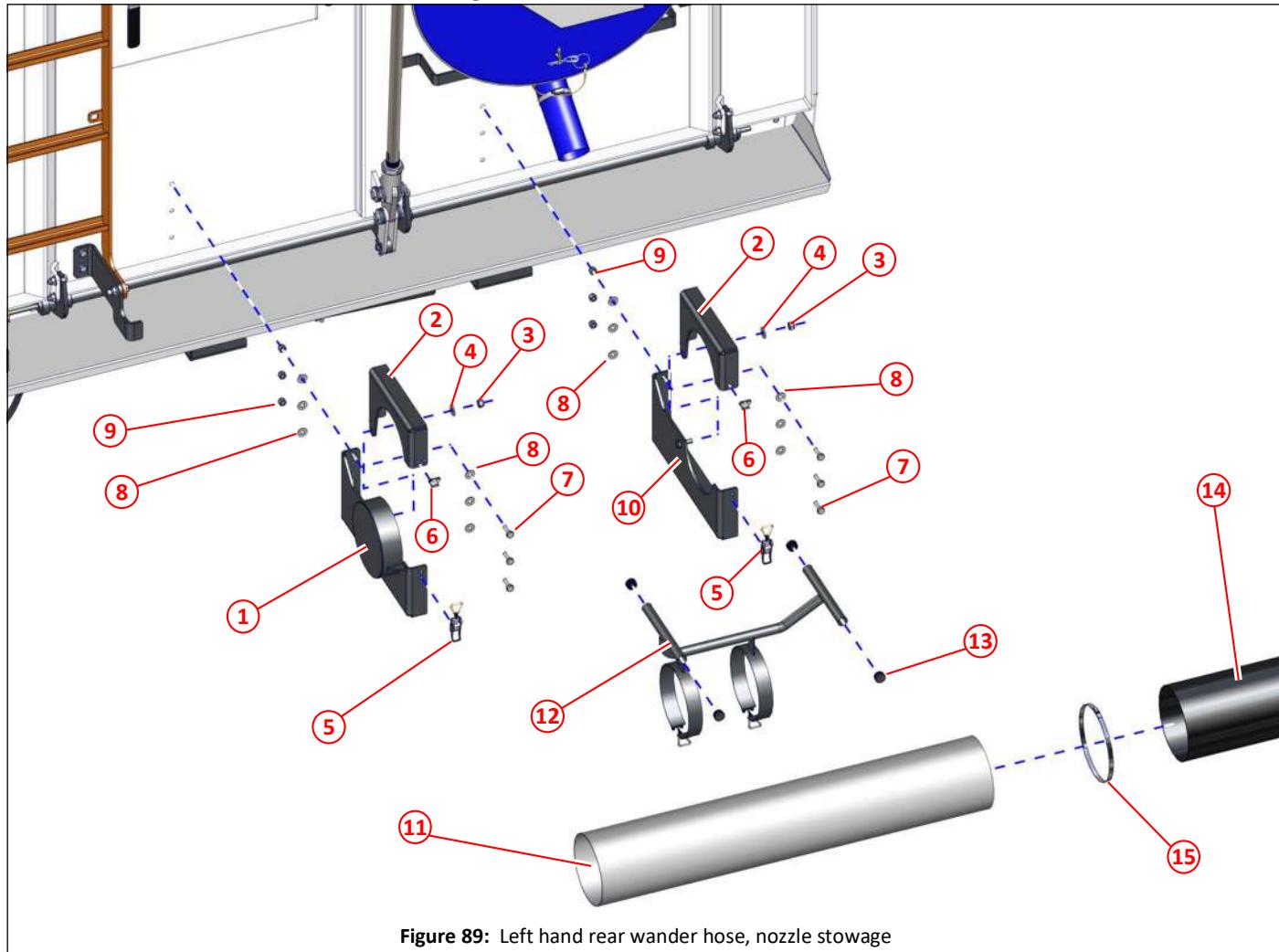


Figure 89: Left hand rear wander hose, nozzle stowage

Item	Part No	Qty	Description	
①	039281	1	Stowage cup, rear wander boom tube, left hand	
②	035962	2	Lock, rear wander boom tube	
③	011077	2	Nyloc nut M12	
④	011096	2	Plain washer M12	
⑤	010509	2	Toggle fastener	
⑥	021841	2	Hook, toggle fastener	
⑦	011032	6	Set screw M10 x 30	
⑧	011094	12	Plain washer M10	
⑨	011075	6	Nyloc nut M10	
⑩	035963	1	Mounting cup, rear wander boom tube	
⑪	035959	1	Tube, rear wander boom	
⑫	039283	1	Handle, rear wander boom	
⑬	026173	4	Plug, plastic ø25.4, black	
⑭	036062	3m	Wander hose ø180	115
⑮	012932	1	Hose clamp, worm drive, No. 8.50 (ø184mm-ø216mm)	

Right hand rear wander hose arrangement

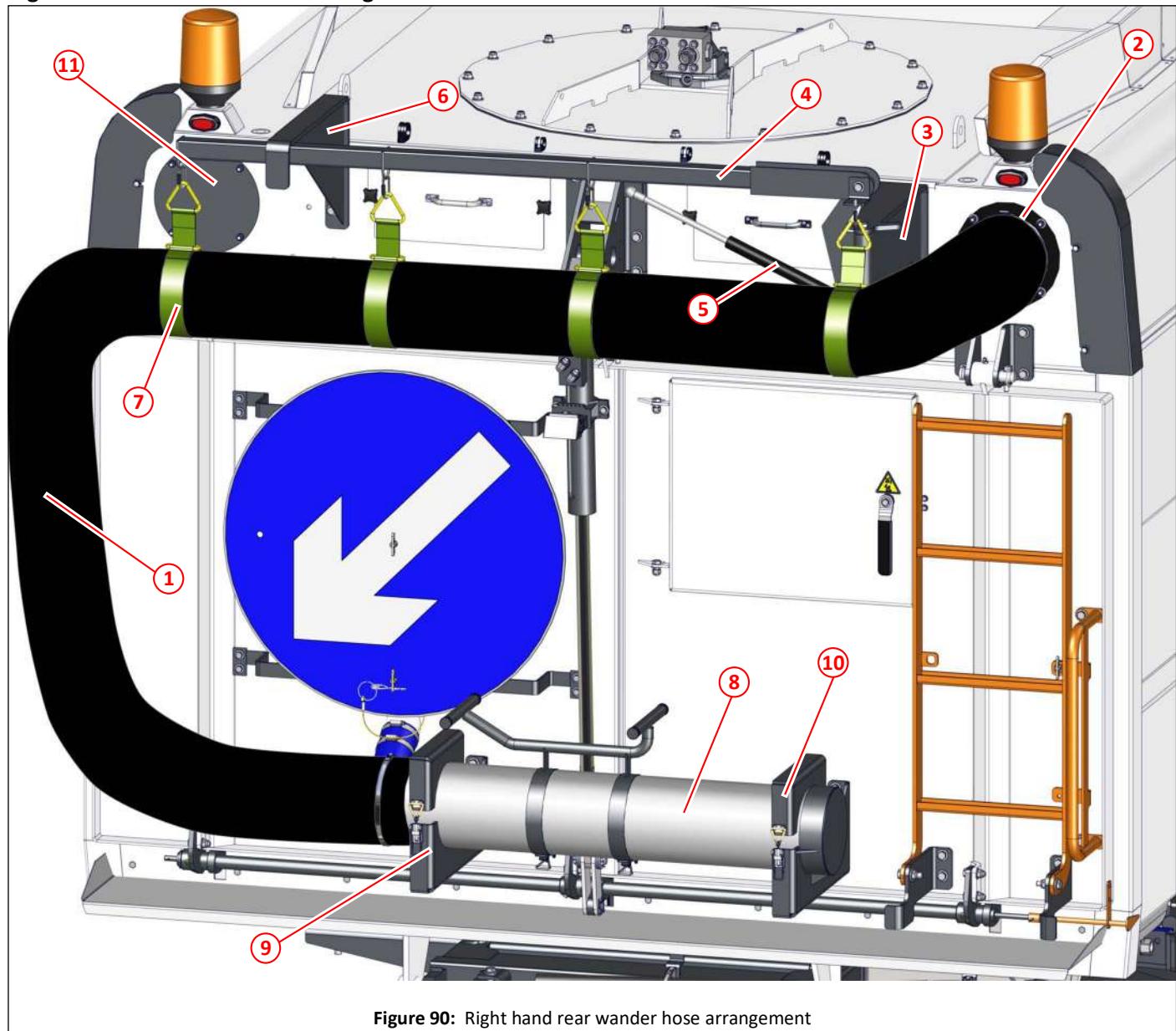
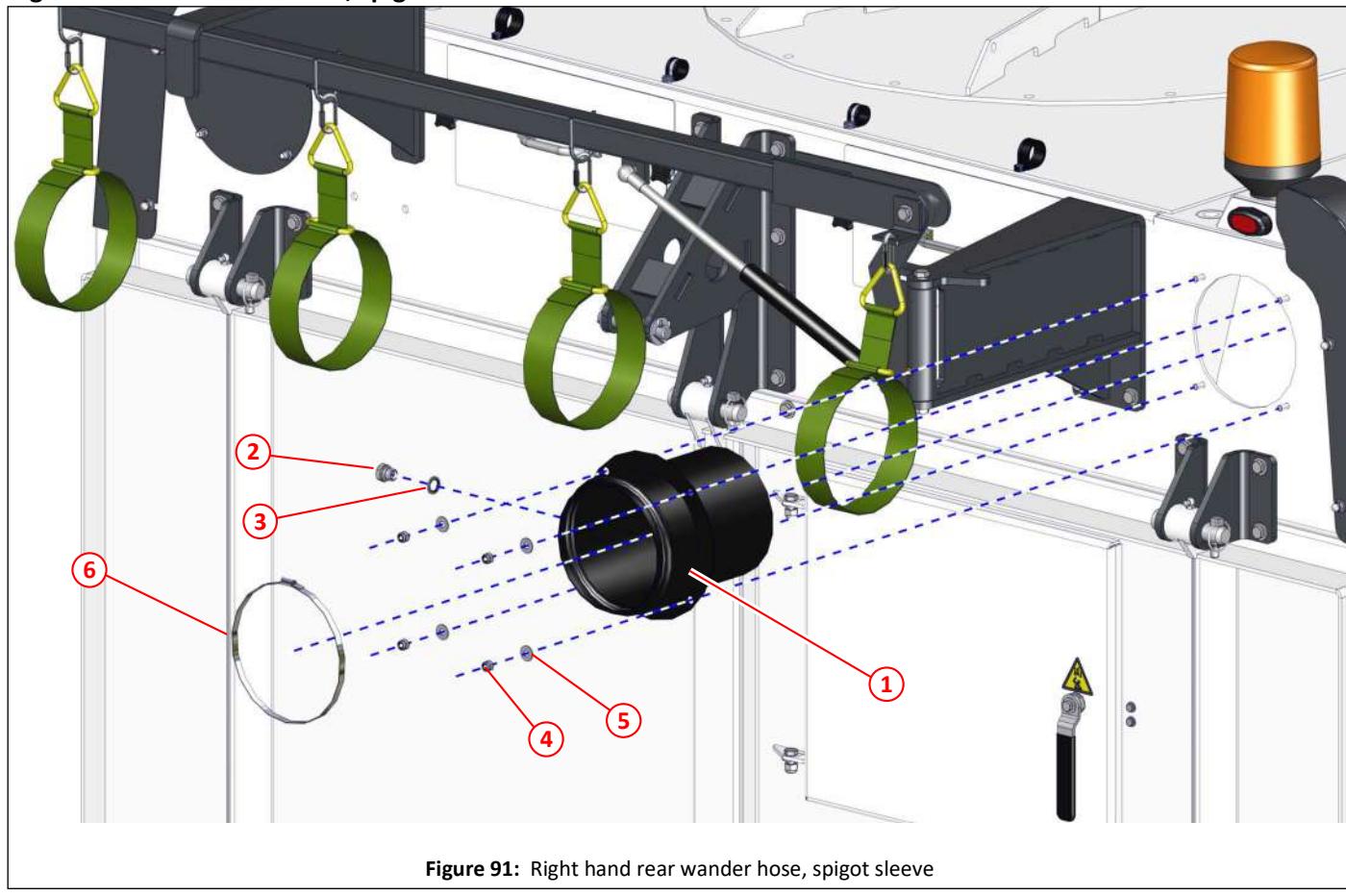


Figure 90: Right hand rear wander hose arrangement

Item	Part No	Qty	Description	
①	036062	3m	Wander hose ø180	119
②	025225	1	Spigot sleeve, wander hose	120
③	034767	1	Boom hinge, right hand	121
④	0252218	1	Boom, support, wander hose	121
⑤	021993	1	Gas strut	121
⑥	034313	1	Stowage hook, wander boom	121
⑦	025235	4	Straps, wander hose	121
⑧	035959	1	Tube, wander hose	122
⑨		1	Stowage bracket, wander hose tube	122
⑩		1	Stowage cup, wander hose tube	122
⑪	025486	1	Cover, wander hose duct	159

Right hand rear wander hose, spigot sleeve



Item	Part No	Qty	Description	
①	025225	1	Spigot sleeve, rear wander hose	119
②	011242	1	Plug $\frac{3}{8}$ " BSP	
③	011153	1	Dowty seal $\frac{3}{8}$ " BSP	
④	000263	4	Nyloc nut M8, stainless steel	
⑤	000264	4	Plain washer M8, stainless steel	
⑥	012932	1	Hose clamp, worm drive, No. 8.50 (\varnothing 184mm- \varnothing 216mm)	

Right hand rear wander hose, boom

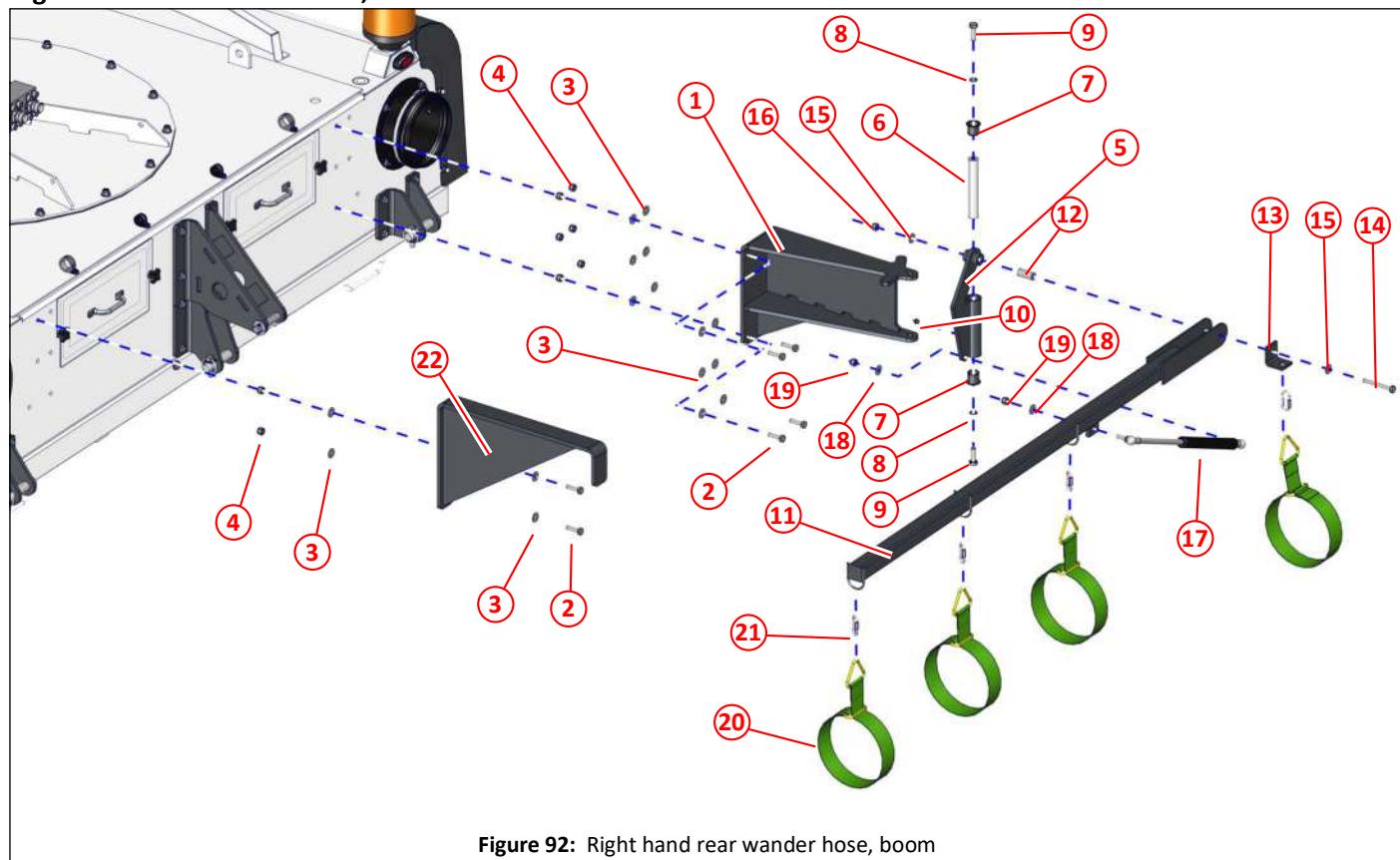
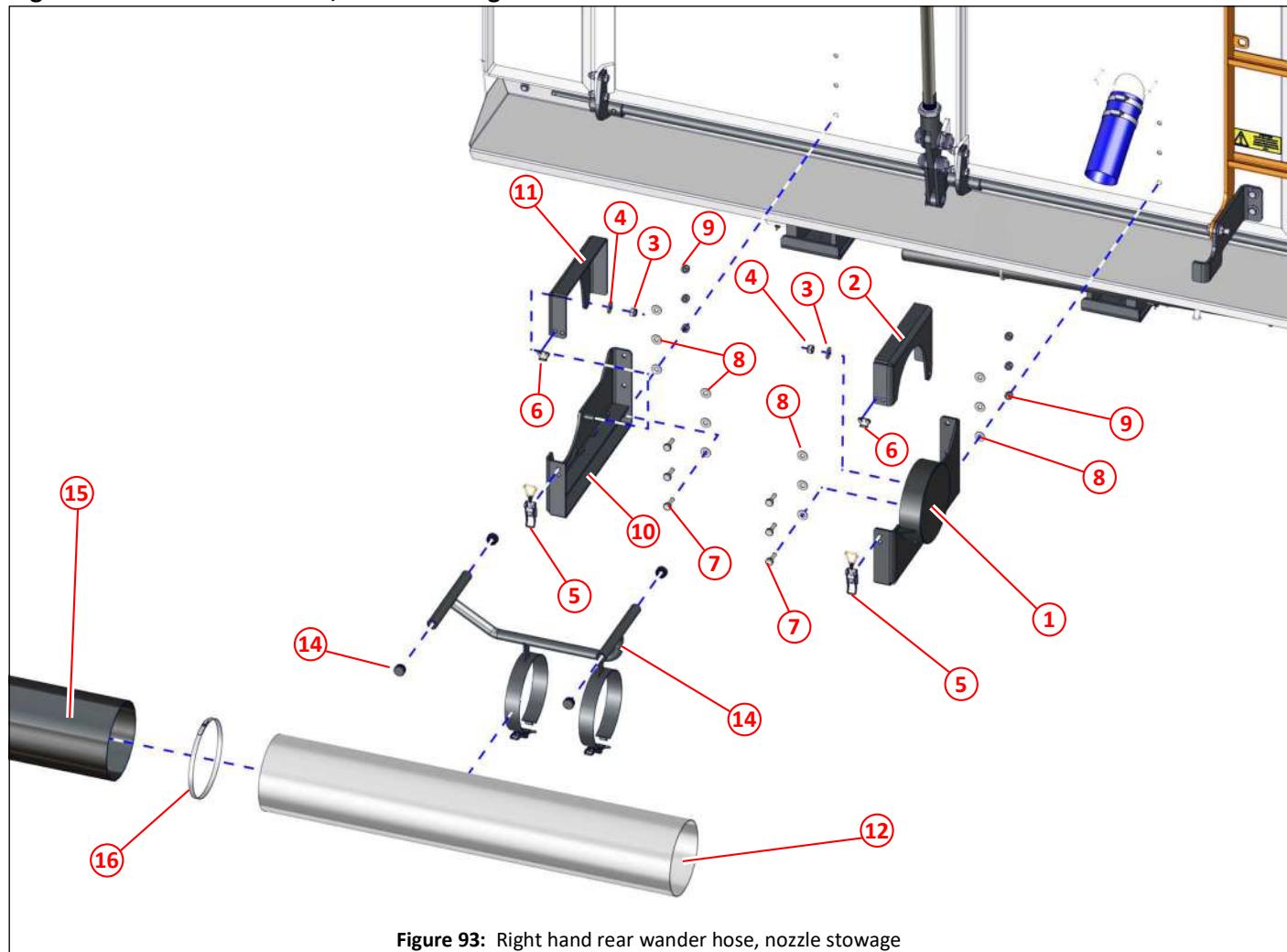


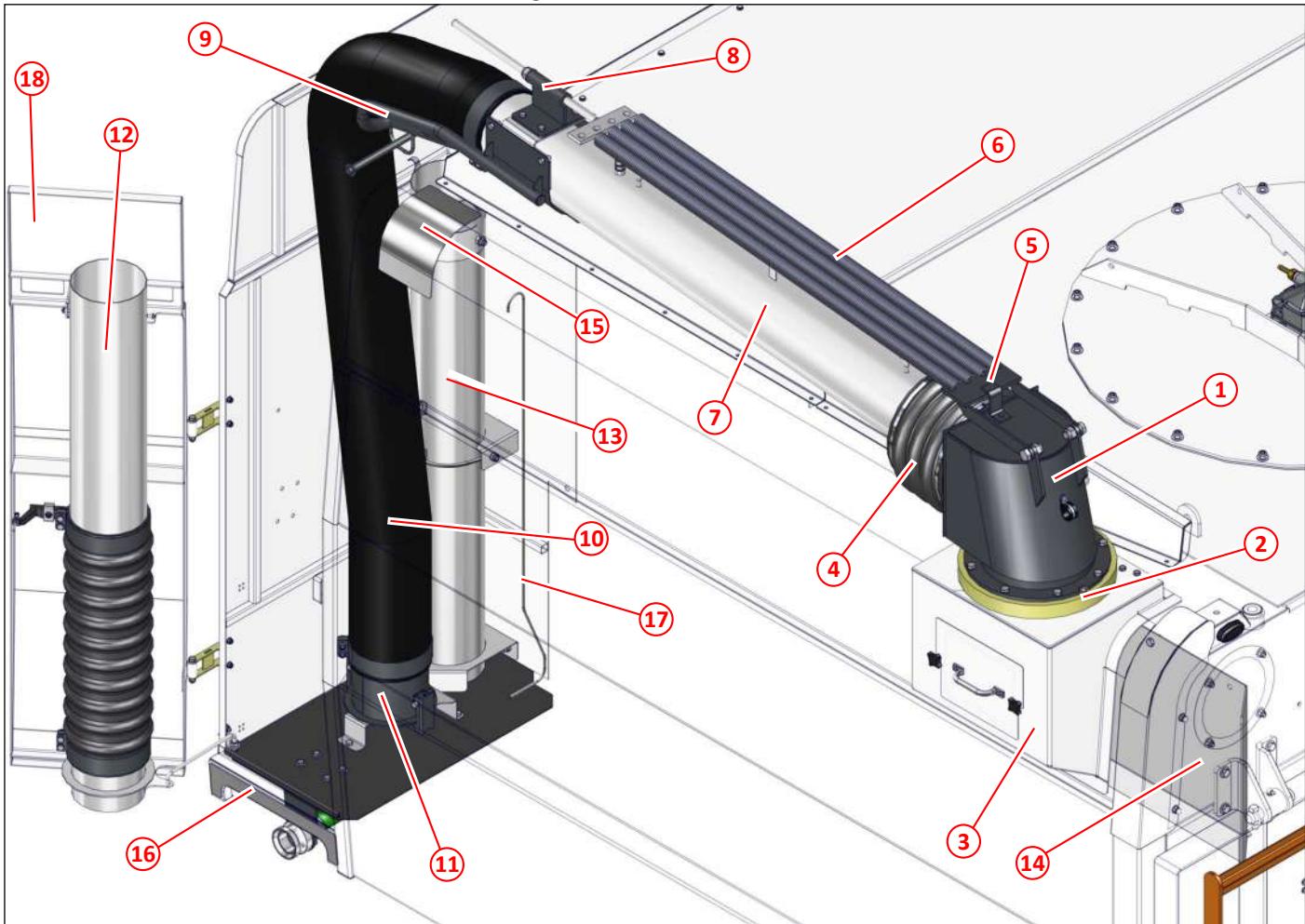
Figure 92: Right hand rear wander hose, boom

Item	Part No	Qty	Description
①	034767	1	Bracket, wander hose boom hinge, right hand
②	011033	8	Set screw M10 x 35
③	011094	16	Plain washer M10
④	011075	8	Nyloc nut M10
⑤	025219	1	Hinge, wander hose boom
⑥	023490	1	Shaft, wander hose boom hinge
⑦	013662	2	Bush
⑧	011097	2	Spring washer M12
⑨	011053	2	Set screw M12 x 35
⑩	010903	1	Grease nipple $\frac{1}{8}$ " BSP, straight
⑪	025218	1	Boom, support wander hose
⑫	014399	1	Spacer, sleeve $\varnothing 10.5 \times \varnothing 20 \times 41$
⑬	012548	1	Bracket, angle
⑭	011038	1	Bolt M10 x 80
⑮	011094	2	Plain washer M10
⑯	011075	1	Nyloc nut M10
⑰	021993	1	Gas strut
⑱	011094	2	Plain washer M10
⑲	011075	2	Nyloc nut M10
⑳	025235	4	Strap, wander hose
㉑	010606	4	Carabiner
㉒	034313	1	Hook, boom stowage

Right hand rear wander hose, nozzle stowage



Item	Part No	Qty	Description	
①	039280	1	Stowage cup, rear wander boom tube, right hand	
②	039282	1	Lock, rear wander boom tube	
③	011077	2	Nyloc nut M12	
④	011096	2	Plain washer M12	
⑤	010509	2	Toggle fastener	
⑥	021841	2	Hook, toggle fastener	
⑦	011032	6	Set screw M10 x 30	
⑧	011094	12	Plain washer M10	
⑨	011075	6	Nyloc nut M10	
⑩	035963	1	Mounting cup, rear wander boom tube	
⑪	035962	1	Lock, rear wander boom tube	
⑫	035959	1	Tube, rear wander boom	119
⑬	039283	1	Handle, rear wander boom	
⑭	026173	4	Plug, plastic ø25.4, black	
⑮	036062	3m	Wander hose ø180	119
⑯	012932	1	Hose clamp, worm drive, No. 8.50 (ø184mm-ø216mm)	

Left hand overhead boom suction nozzle arrangement


i Shown with hopper outlined to aid clarity of components that would otherwise be hidden.

Figure 94: Left hand overhead suction nozzle arrangement

Item	Part No	Qty	Description	
①	013793	1	Elbow, overhead boom	124,125,126
②			Ring, bearing, assembly	124,125,126
③	044737	1	Over head boom carrier. This is a welded on item.	124,125,126
④	044107	1	Cuff, overhead boom pivot	126,127
⑤	013801	1	Bracket, spring anchor	126
⑥	013805	4	Spring	126,127
⑦	044120	1	Suction pipe, overhead boom	126,127,128
⑧	044126	1	Bracket, spring tensioner	127
⑨	044122	1	Cradle, overhead boom	128
⑩	044105	2m	Hose, overhead boom	128
⑪	044124	1	Coupling, hose, overhead boom	128
⑫	044139	1	Extension, flexible, overhead boom	139
⑬	044155	1	Extension, overhead boom	139
⑭	044147	1	Deflector, overhead boom, inside hopper, left hand	124
⑮	044384	1	Plate, hopper protector, overhead boom	129
⑯	044383	1	Plate, locker protector, overhead boom	129
⑰	044753	1	Hook, overhead boom	
⑱			Locker components, overhead boom, left hand	129,130

Left hand overhead boom carrier inspection hatch and deflector

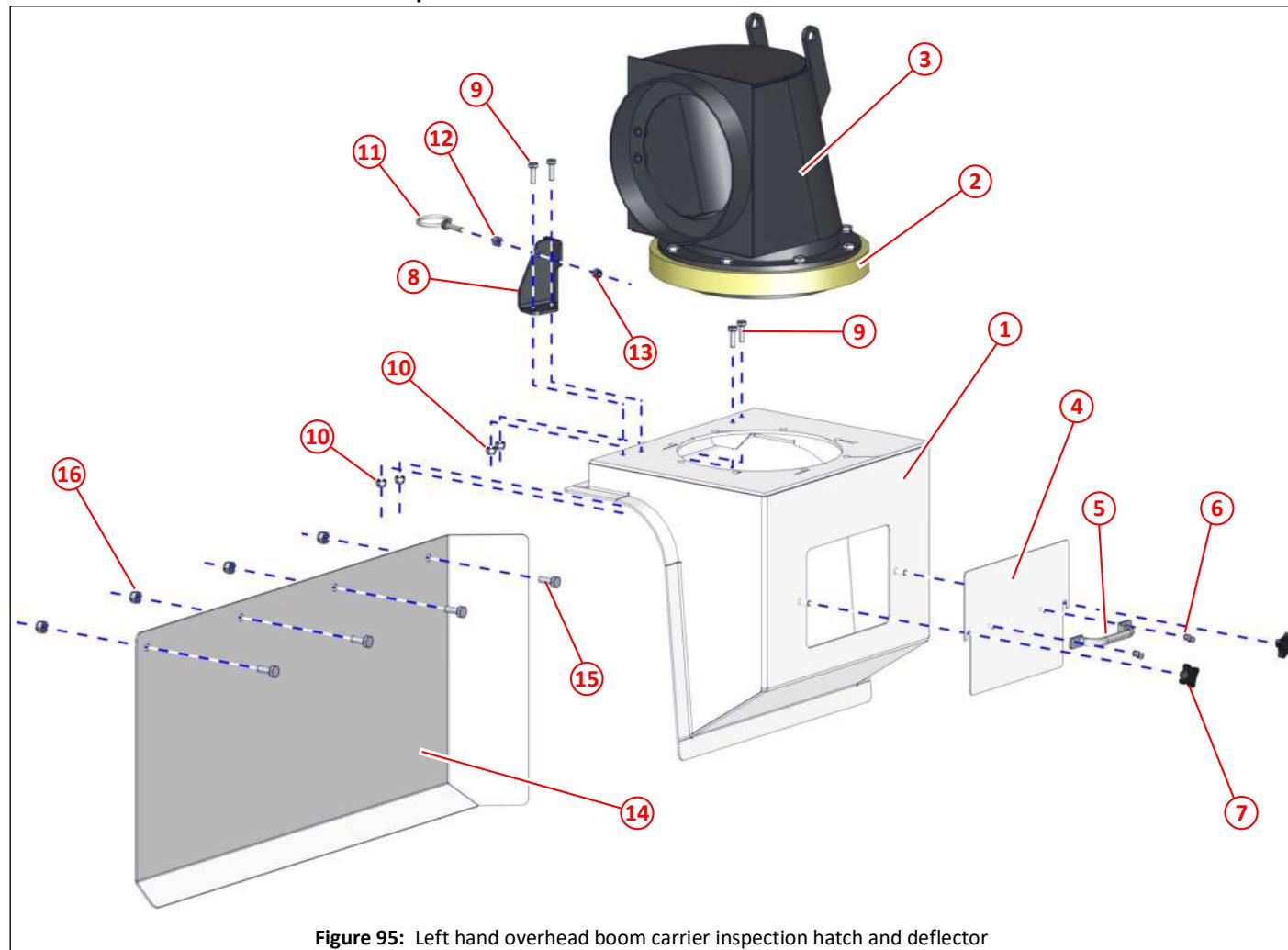


Figure 95: Left hand overhead boom carrier inspection hatch and deflector

Item	Part No	Qty	Description	
①	044737	1	Over head boom carrier. This is a welded on item.	123,125,126
②			Ring, bearing, assembly	123,125,126
③	013793	1	Elbow, overhead boom	123,125,126
④	032351	1	Access cover, overhead boom carrier	
⑤	010502	1	Handle	
⑥	011131	4	Rivet, blind $\phi 4.8 \times 18$	
⑦	000248	2	Grip nut	
⑧	044755	1	Boom stop	
⑨	000257	4	Set screw M8 x 25, stainless steel	
⑩	000263	4	Nyloc nut M8, stainless steel	
⑪	033022	1	Ring, hose guide	
⑫	000262	1	Full nut M8, stainless steel	
⑬	011073	1	Nyloc nut M8	
⑭	044147	1	Deflector, overhead boom, inside hopper, left hand	123
⑮	000280	4	Set screw M10 x 25, stainless steel	
⑯	000269	4	Nyloc nut M10, stainless steel	

Left hand overhead boom elbow and bearing

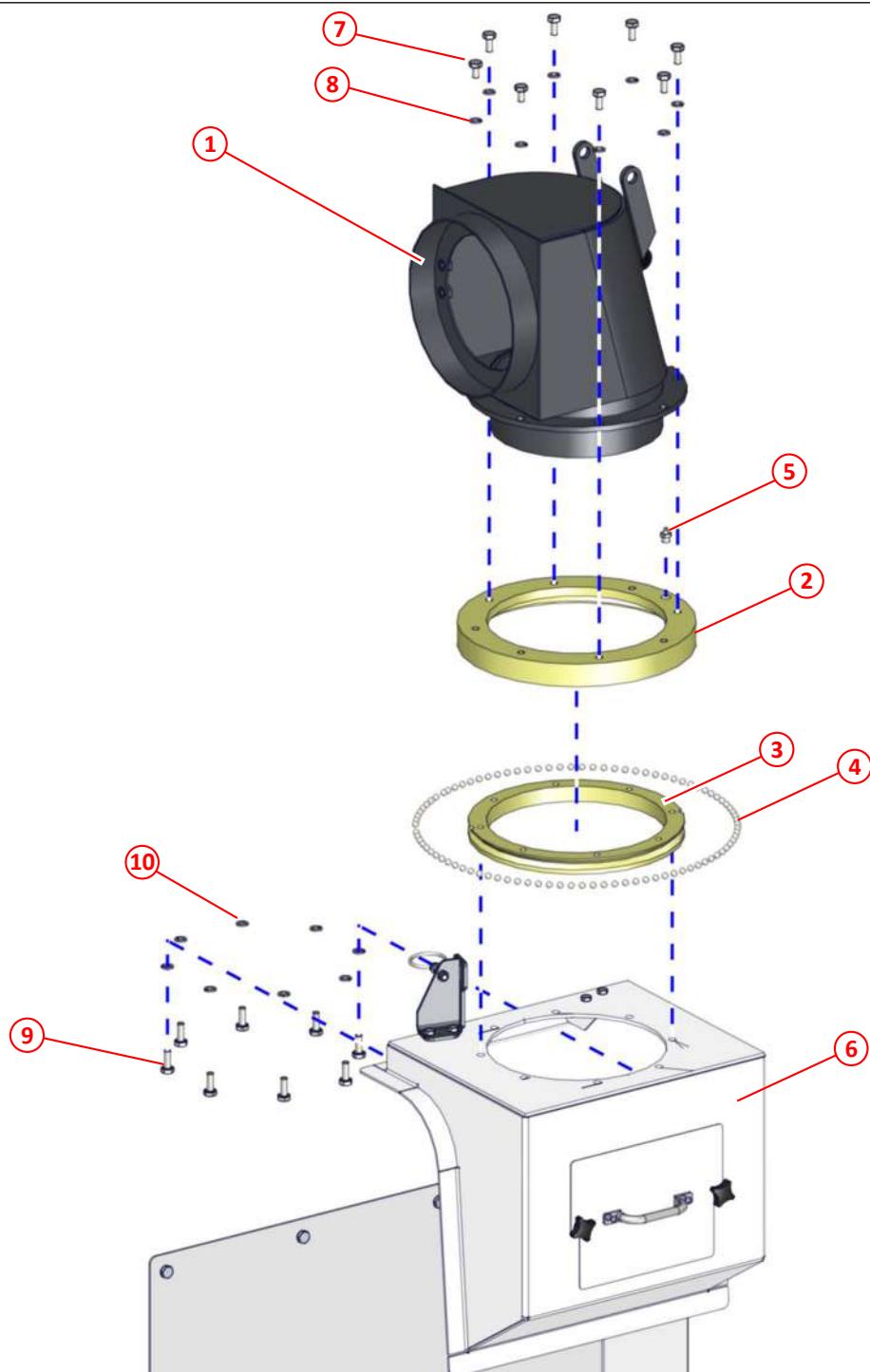
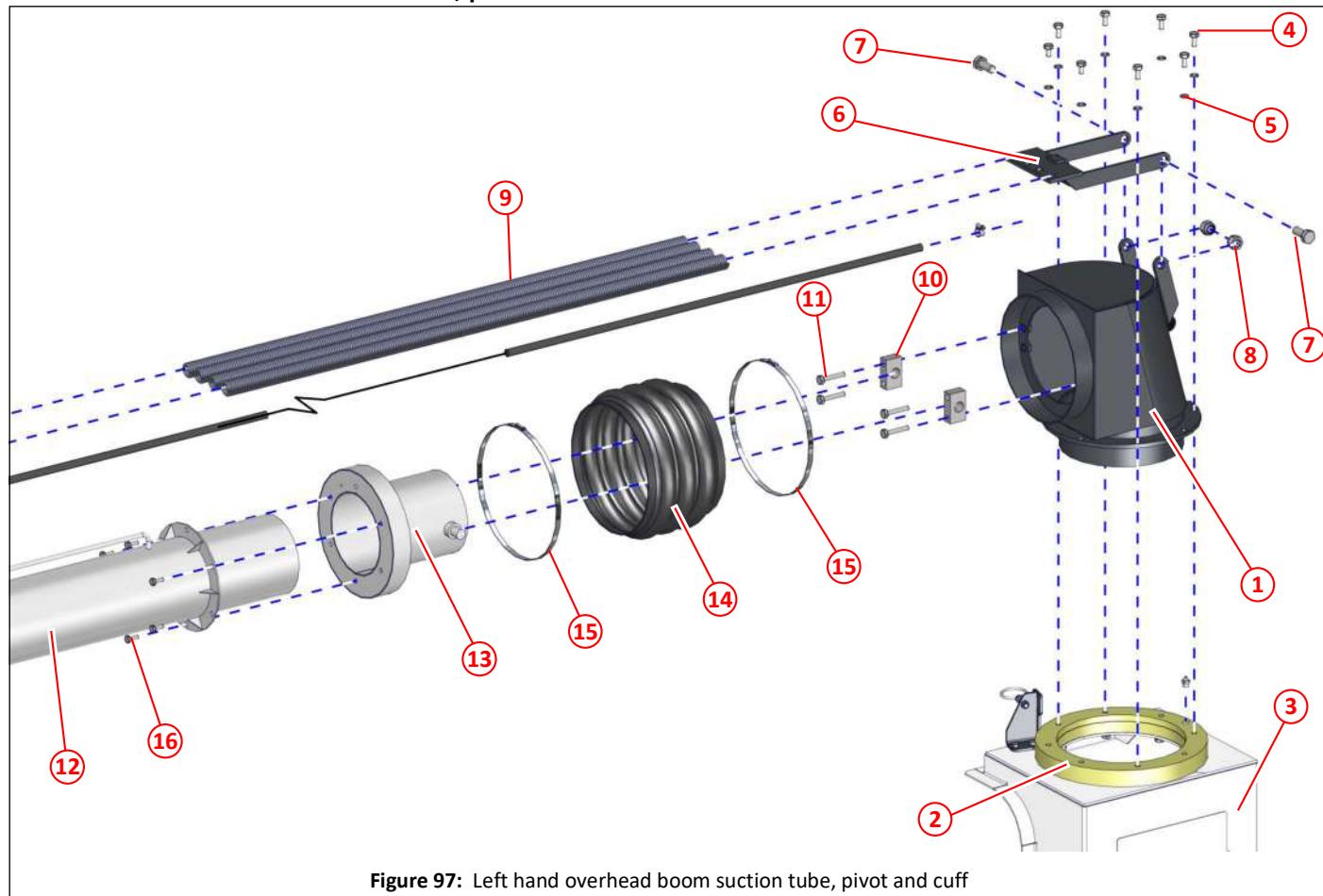


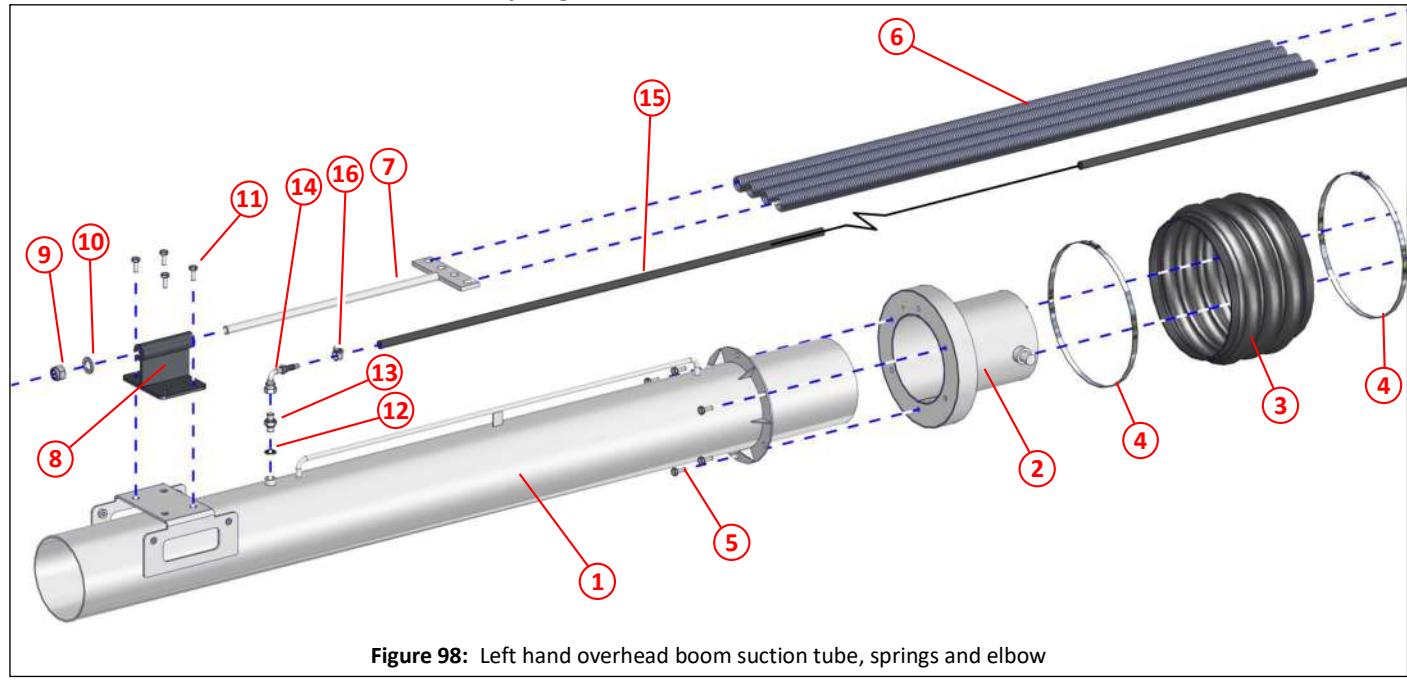
Figure 96: Left hand overhead boom elbow and bearing

Item	Part No	Qty	Description	
①	013793	1	Elbow, overhead boom	123,124,126
②	013788	1	Ring, bearing, outer	
③	013789	1	Ring, bearing, inner	
④	013791	91	Ball, steel, Ø10	
⑤	013792	1	Grease nipple 1/4" BSP	
⑥	044737	1	Overhead boom carrier. This is a welded on item.	123,124,126
⑦	011030	8	Set screw M10 x 20	
⑧	011095	8	Spring washer M10	
⑨	011031	8	Set screw M10 x 25	
⑩	011095	8	Spring washer M10	

Left hand overhead boom suction tube, pivot and cuff

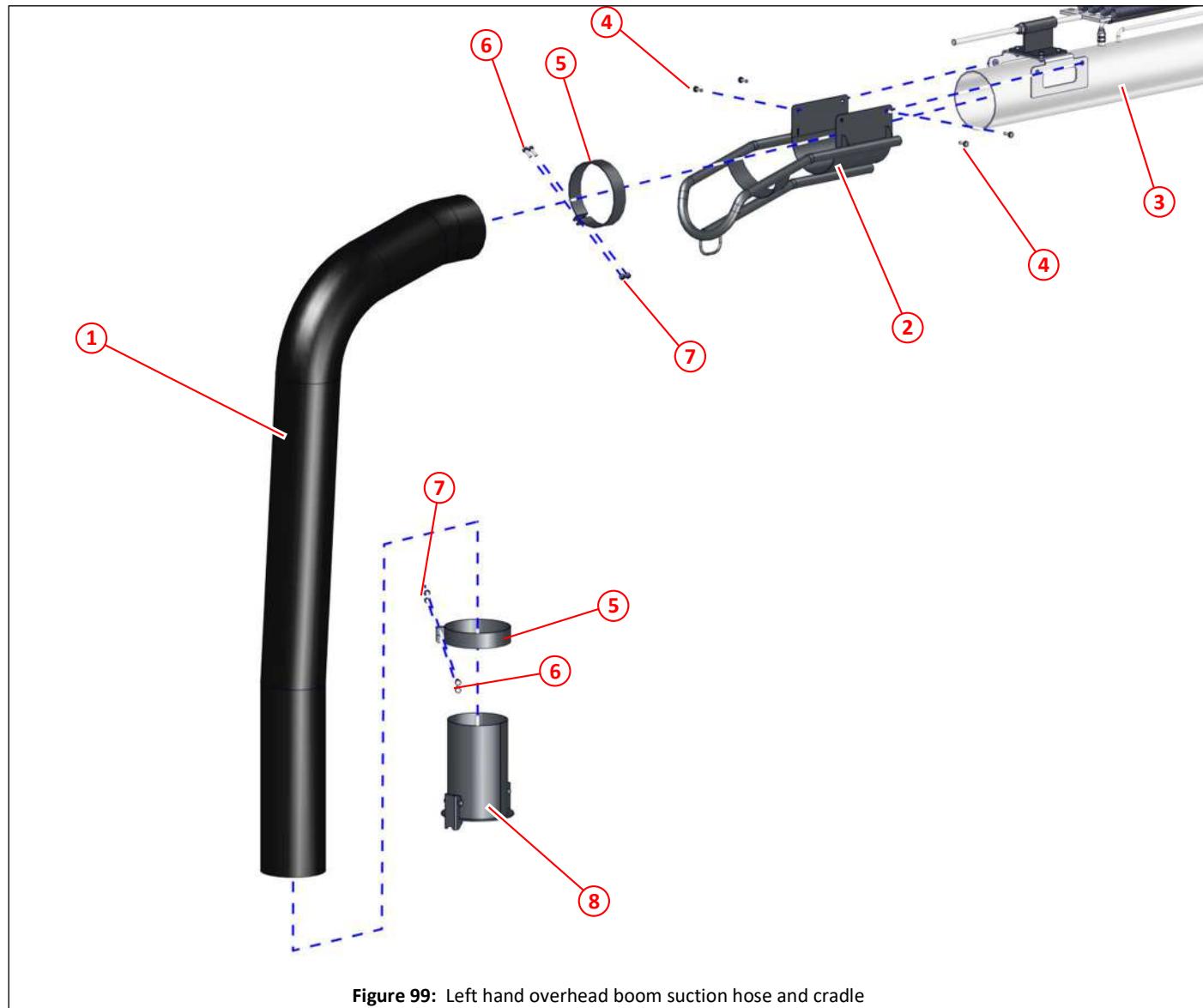


Item	Part No	Qty	Description	
①	013793	1	Elbow, overhead boom	123,124,125
②			Ring, bearing assembly	123,124,125
③	044737	1	Over head boom carrier. This is a welded on item.	123,124,125
④	011030	8	Set screw M10 x 20	
⑤	011095	8	Spring washer M10	
⑥	013801	1	Bracket, spring anchor	123
⑦	011141	2	Bolt M16 x 35	
⑧	011060	2	Nyloc nut M16	
⑨	013805	4	Spring 800	123
⑩	013798	2	Pivot block	
⑪	011035	4	Set screw M10 x 50	
⑫	044120	1	Pipe, suction, overhead boom	123,127,128
⑬	044121	1	Pivot, overhead boom	127
⑭	044107	1	Cuff, overhead boom pivot	123,127
⑮	012933	2	Hose clamp, worm drive, No. 10.50 (ϕ 235mm- ϕ 267mm)	
⑯	011010	6	Set screw M8 x 20	

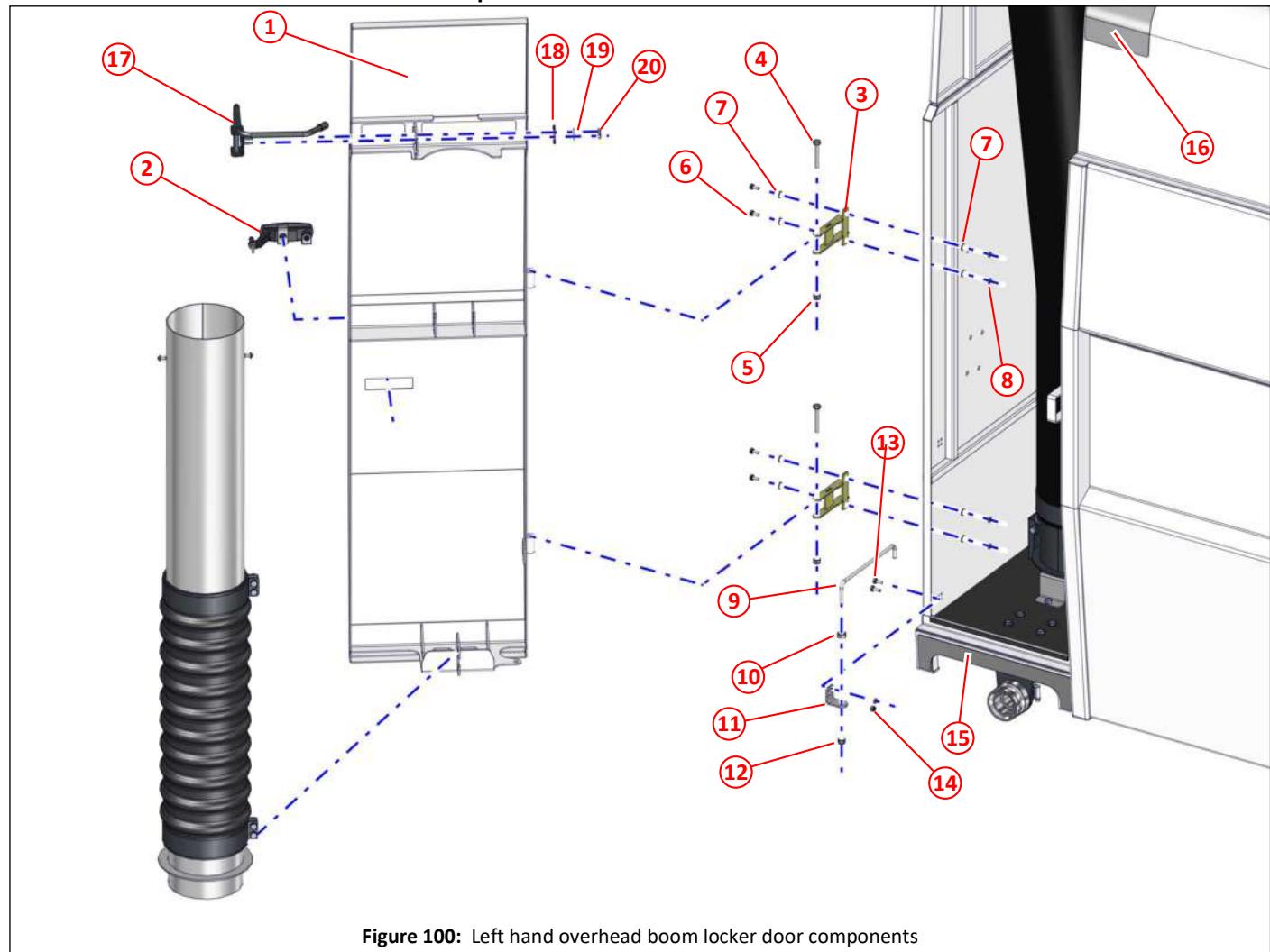
Left hand overhead boom suction tube, springs


Item	Part No	Qty	Description	
①	044120	1	Pipe, suction, overhead boom	123,126,128
②	044121	1	Pivot, overhead boom	126
③	044107	1	Cuff, overhead boom pivot	123,126
④	012933	2	Hose clamp, worm drive, No. 10.50 (ϕ 235mm- ϕ 267mm)	
⑤	011010	6	Set screw M8 x 20	
⑥	013805	4	Spring 800	123,126
⑦	013804	1	Tensioner, overhead boom	
⑧	044126	1	Bracket, spring tensioner	123
⑨	011060	1	Nyloc nut M16	
⑩	011135	1	Plain washer M16	
⑪	011010	4	Set screw M8 x 20	
⑫	011152	1	Dowty seal $\frac{1}{4}$ " BSP	
⑬	011158	1	Adapter $\frac{1}{4}$ " BSP	
⑭	002237	1	Adapter $\frac{1}{4}$ " BSPF x $\frac{3}{8}$ " hose tail, 90°	
⑮	010950	As req	Hose ϕ 9.5 ID, black braided PVC	
⑯	010516	2	Hose clamp, worm drive, No. M00 (ϕ 11mm- ϕ 16mm)	

Left hand overhead boom suction hose and cradle



Item	Part No	Qty	Description	
①	044105	2m	Hose, overhead boom	123
②	044122	1	Cradle, overhead boom	123
③	044120	1	Pipe, suction, overhead boom	123,126,127
④	011010	4	Set screw M8 x 20	
⑤	044376	2	Clamp, hose, overhead boom	
⑥	000257	4	Set screw M8 x 25, stainless steel	
⑦	000263	4	Nyloc nut M8, stainless steel	
⑧	044124	1	Hose, coupling, overhead boom	123

Left hand overhead boom locker door components


Item	Part No	Qty	Description	
①	044146	1	Door, locker, overhead boom, left hand	123
②	033115	1	Latch, locking	
③	044144	2	Hinge, locker door, overhead boom	
④	000261	2	Set screw M8 x 55, stainless steel	
⑤	000263	2	Nyloc nut M8, stainless steel	
⑥	000250	4	Set screw M6 x 16, stainless steel	
⑦	000254	4	Plain washer M6, stainless steel	
⑧	000253	4	Nyloc nut M6, stainless steel	
⑨	044407	1	Door stay, overhead boom	
⑩	011074	1	Full nut M10	
⑪	044408	1	Bracket, door stay, overhead boom	
⑫	000263	1	Nyloc nut M8, stainless steel	
⑬	011001	2	Set screw M6 x 16	
⑭	011071	2	Nyloc nut M6	
⑮	044383	1	Plate, locker protector, overhead boom	123,130
⑯	044384	1	Plate, hopper protector, overhead boom	123
⑰	045504	1	Hose protector left hand side	
⑱	027989	1	Plate, backing brace	
⑲	000254	2	Plain washer M6, stainless steel	
⑳	000253	2	Nyloc nut M6, stainless steel	

Left hand overhead boom stowage components

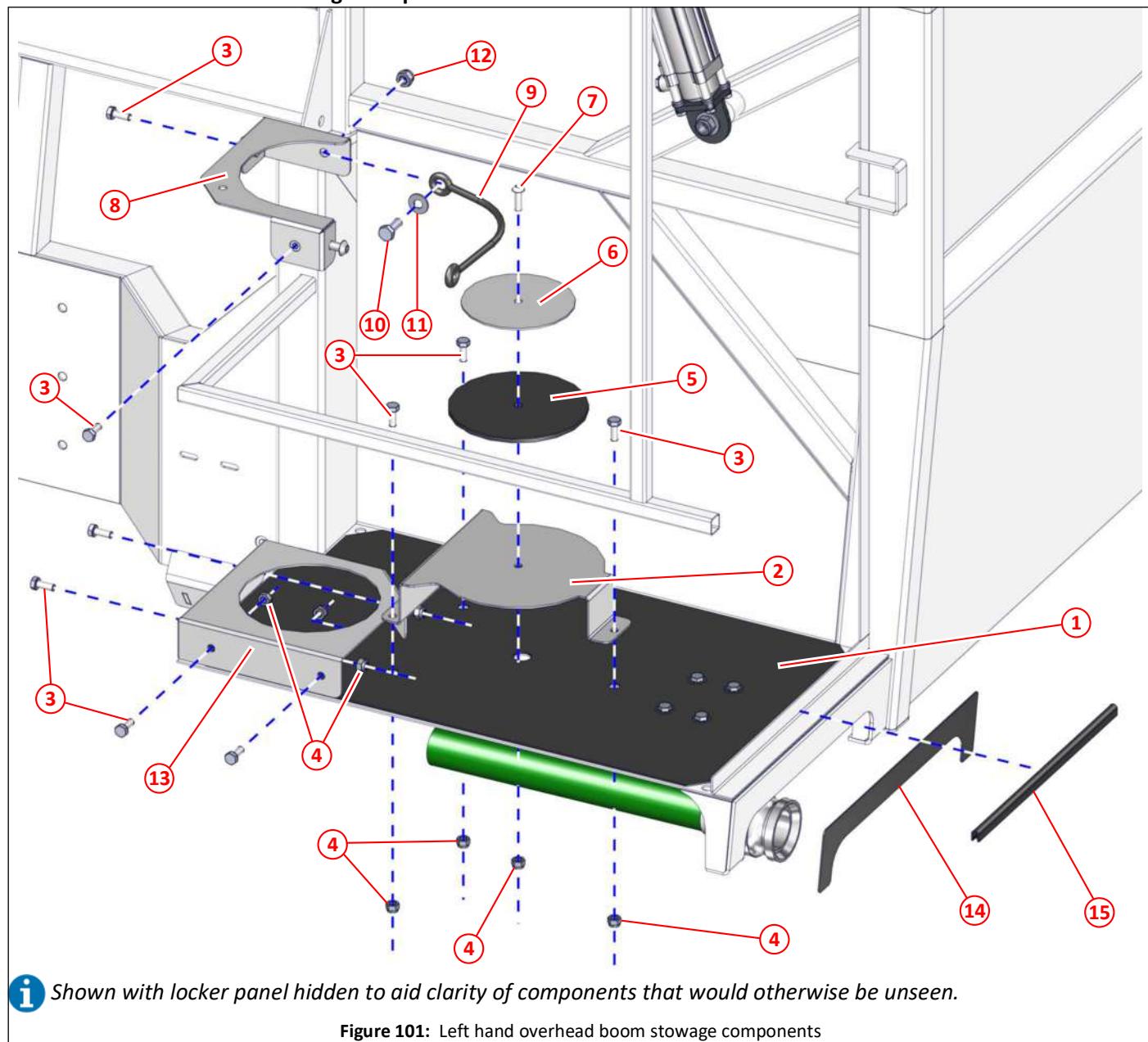


Figure 101: Left hand overhead boom stowage components

Item	Part No	Qty	Description	
①	044150	1	Rubber mat	
②	044127	1	Bracket, hose coupling stowage	
③	000256	9	Set screw M8 x 20, stainless steel	
④	000263	8	Nyloc nut M8, stainless steel	
⑤	044129	1	Sealing disc, rubber	
⑥	044130	1	Sealing plate	
⑦	000281	1	Socket button head screw, M8 x 25, stainless steel	
⑧	044752	1	Bracket, upper, extension stowage	
⑨	044007	1	Mini-tie No. 10	
⑩	000280	1	Set screw M10 x 25, stainless steel	
⑪	000270	1	Plain washer M10, stainless steel	
⑫	000269	1	Nyloc nut m10, stainless steel	
⑬	044149	1	Bracket, bottom, extension stowage	
⑭	044383	1	Plate, locker protector, overhead boom	123,129
⑮	010545	345mm	Titanfast, edging strip	

Right hand overhead boom suction nozzle arrangement

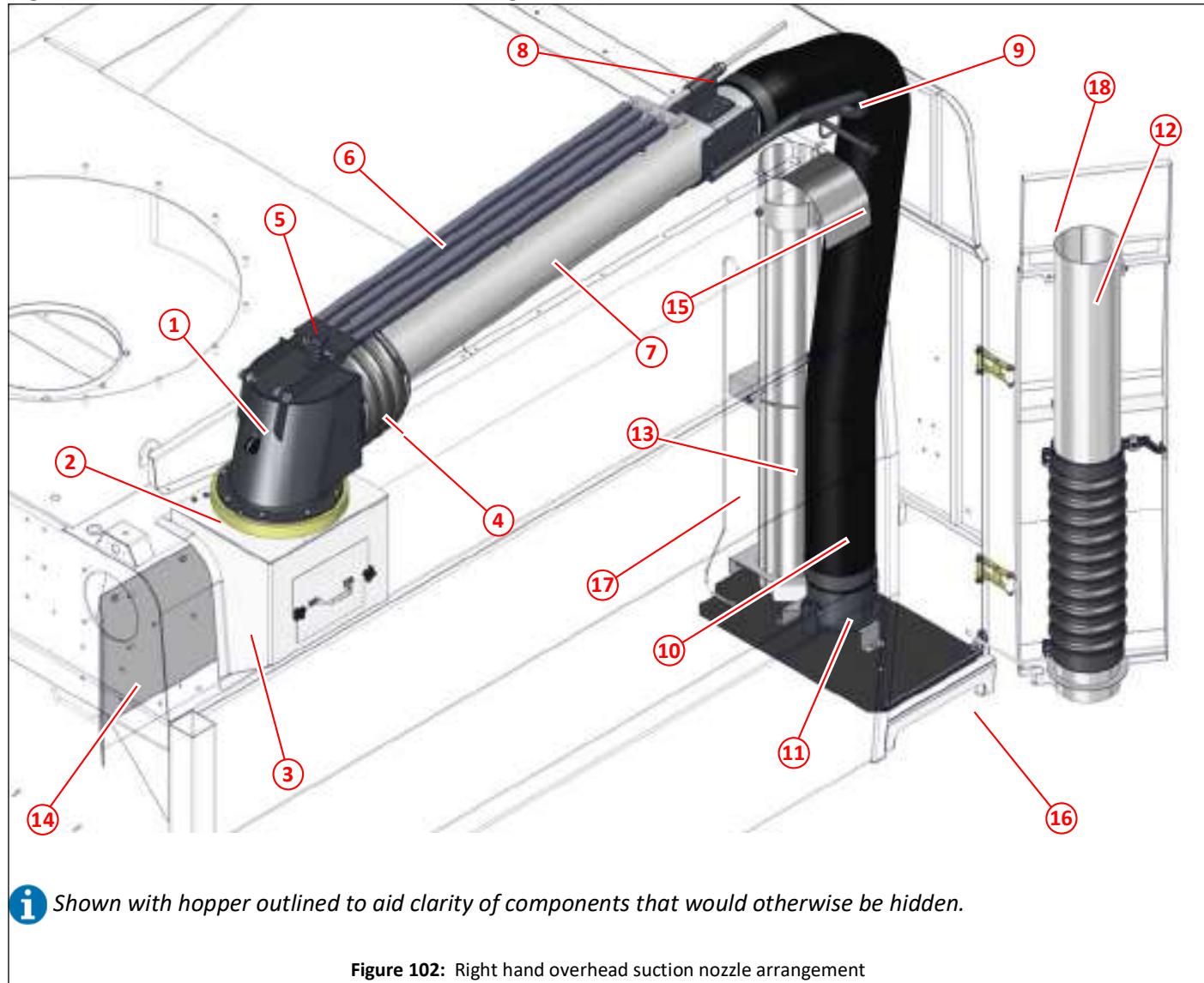


Figure 102: Right hand overhead suction nozzle arrangement

Item	Part No	Qty	Description	
①	013793	1	Elbow, overhead boom	132,133,134
②			Ring, bearing, assembly	132,133,134
③	044737	1	Over head boom carrier. This is a welded on item.	132,133,134
④	044107	1	Cuff, overhead boom pivot	134,135
⑤	013801	1	Bracket, spring retainer	134
⑥	013805	4	Spring	134,135
⑦	044120	1	Suction pipe, overhead boom	134,135,136
⑧	044126	1	Bracket, spring tensioner	135
⑨	044122	1	Cradle, overhead boom	136
⑩	044105	2m	Hose, overhead boom	136
⑪	044124	1	Coupling, hose, overhead boom	136
⑫	044139	1	Extension, flexible, overhead boom	139
⑬	044155	1	Extension, overhead boom	139
⑭	044756	1	Deflector, overhead boom, inside hopper, right hand	123
⑮	044384	1	Plate, hopper protector, overhead boom	137
⑯	044383	1	Plate, locker protector, overhead boom	137,138
⑰	044753	1	Hook, overhead boom	
⑱			Locker components, overhead boom, right hand	137,138

Right hand overhead boom carrier access cover and deflector

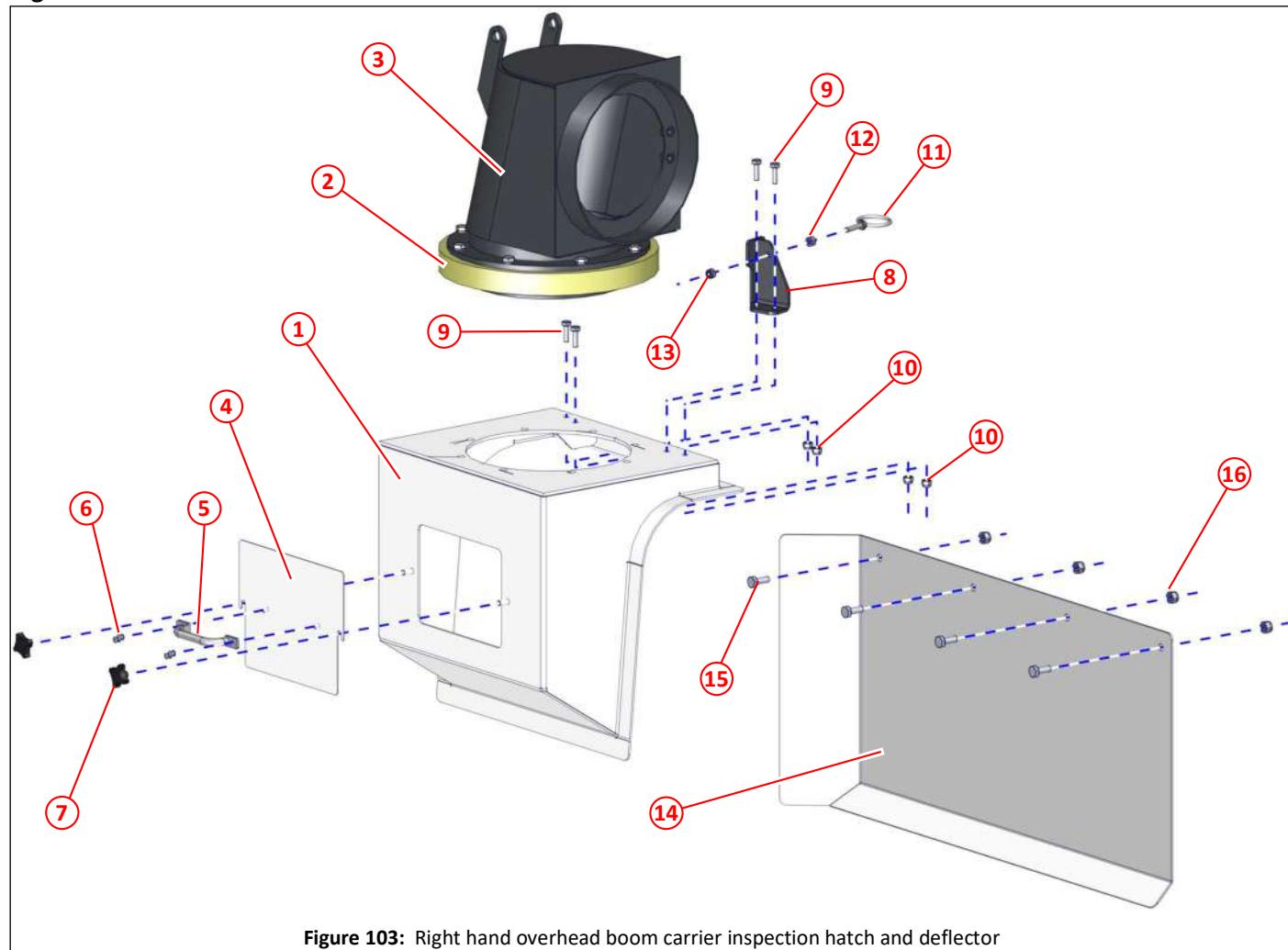


Figure 103: Right hand overhead boom carrier inspection hatch and deflector

Item	Part No	Qty	Description	
①	044737	1	Over head boom carrier. This is a welded on item.	131,133,134
②			Ring, bearing, assembly	131,133,134
③	013793	1	Elbow, overhead boom	131,133,134
④	032351	1	Access cover, overhead boom carrier	
⑤	010502	1	Handle	
⑥	011131	4	Rivet, blind ø4.8 x 18	
⑦	000248	2	Grip nut	
⑧	044755	1	Boom stop	
⑨	000257	4	Set screw M8 x 25, stainless steel	
⑩	000263	4	Nyloc nut M8, stainless steel	
⑪	033022	1	Ring, hose guide	
⑫	000262	1	Full nut M8, stainless steel	
⑬	011073	1	Nyloc nut M8	
⑭	044756	1	Deflector, overhead boom, inside hopper, right hand	131
⑮	000280	4	Set screw M10 x 25, stainless steel	
⑯	000269	4	Nyloc nut M10, stainless steel	

Right hand overhead boom elbow and bearing

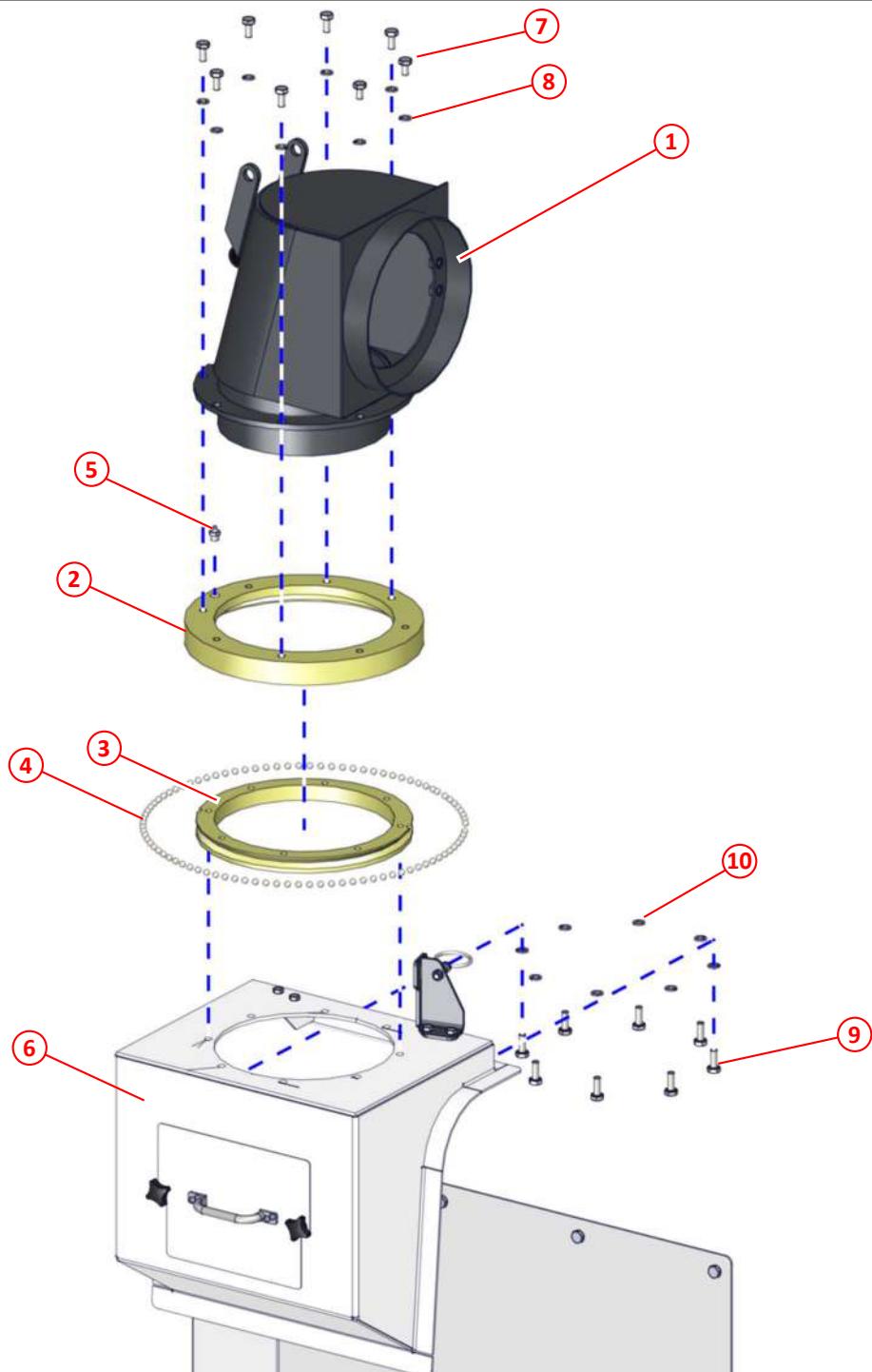
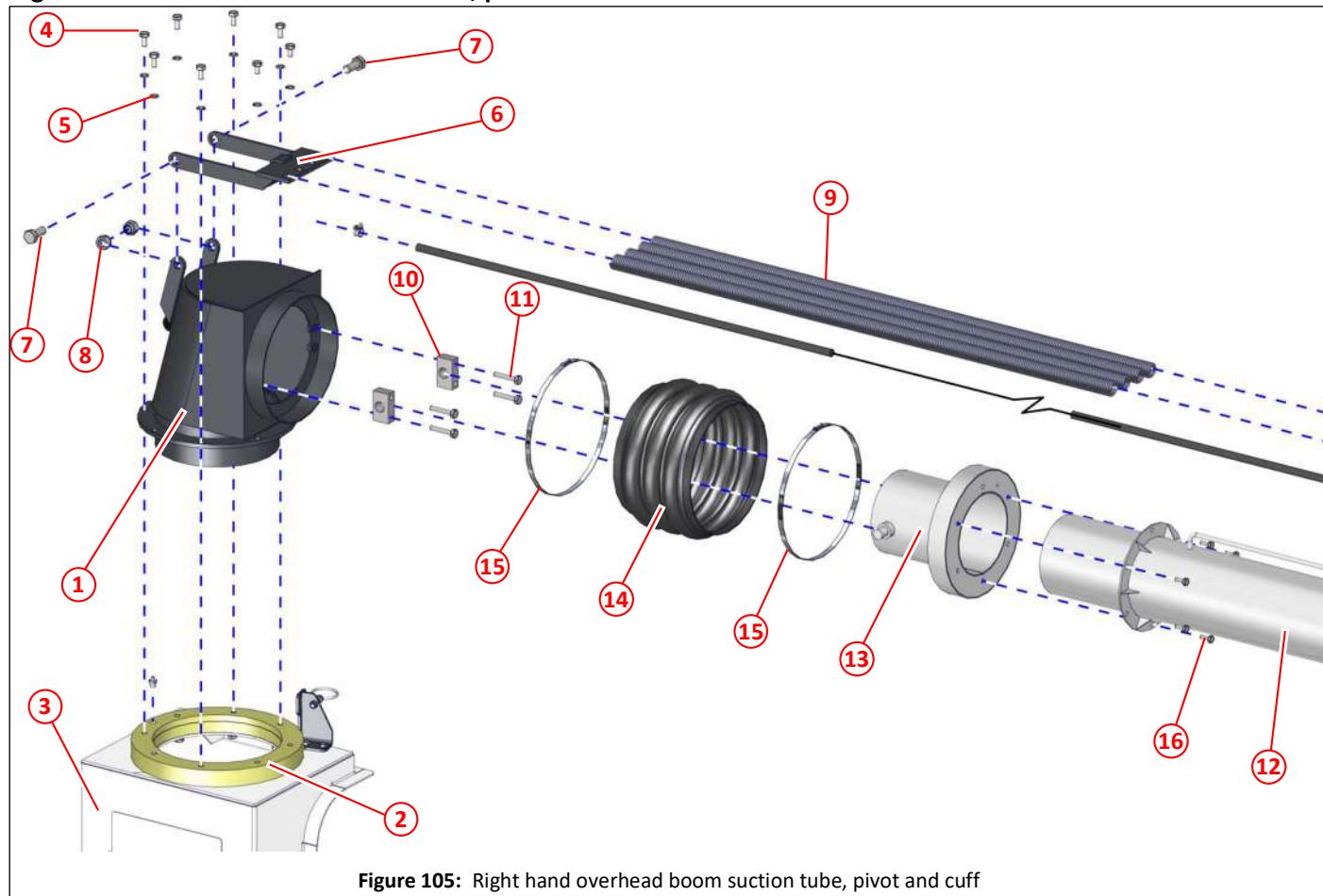


Figure 104: Right hand overhead boom elbow and bearing

Item	Part No	Qty	Description	
①	013793	1	Elbow, overhead boom	131,132,134
②	013788	1	Ring, bearing, outer	
③	013789	1	Ring, bearing, inner	
④	013791	91	Ball, steel, ø10	
⑤	013792	1	Grease nipple 1/4" BSP	
⑥	044737	1	Over head boom carrier. This is a welded on item.	131,132,134
⑦	011030	8	Set screw M10 x 20	
⑧	011095	8	Spring washer M10	
⑨	011031	8	Set screw M10 x 25	
⑩	011095	8	Spring washer M10	

Right hand overhead boom suction tube, pivot and cuff



Item	Part No	Qty	Description	
①	013793	1	Elbow, overhead boom	131,132,133
②			Ring, bearing assembly	131,132,133
③	044737	1	Over head boom carrier. This is a welded on item.	131,132,133
④	011030	8	Set screw M10 x 20	
⑤	011095	8	Spring washer M10	
⑥	013801	1	Bracket, spring anchor	131
⑦	011141	2	Bolt M16 x 35	
⑧	011060	2	Nyloc nut M16	
⑨	013805	4	Spring 800	131,135
⑩	013798	2	Pivot block	
⑪	011035	4	Set screw M10 x 50	
⑫	044120	1	Pipe, suction, overhead boom	131,135,136
⑬	044121	1	Pivot, overhead boom	135
⑭	044107	1	Cuff, overhead boom pivot	131,135
⑮	012933	2	Hose clamp, worm drive, No. 10.50 (ϕ 235mm- ϕ 267mm)	
⑯	011010	6	Set screw M8 x 20	

Right hand overhead boom suction tube, springs

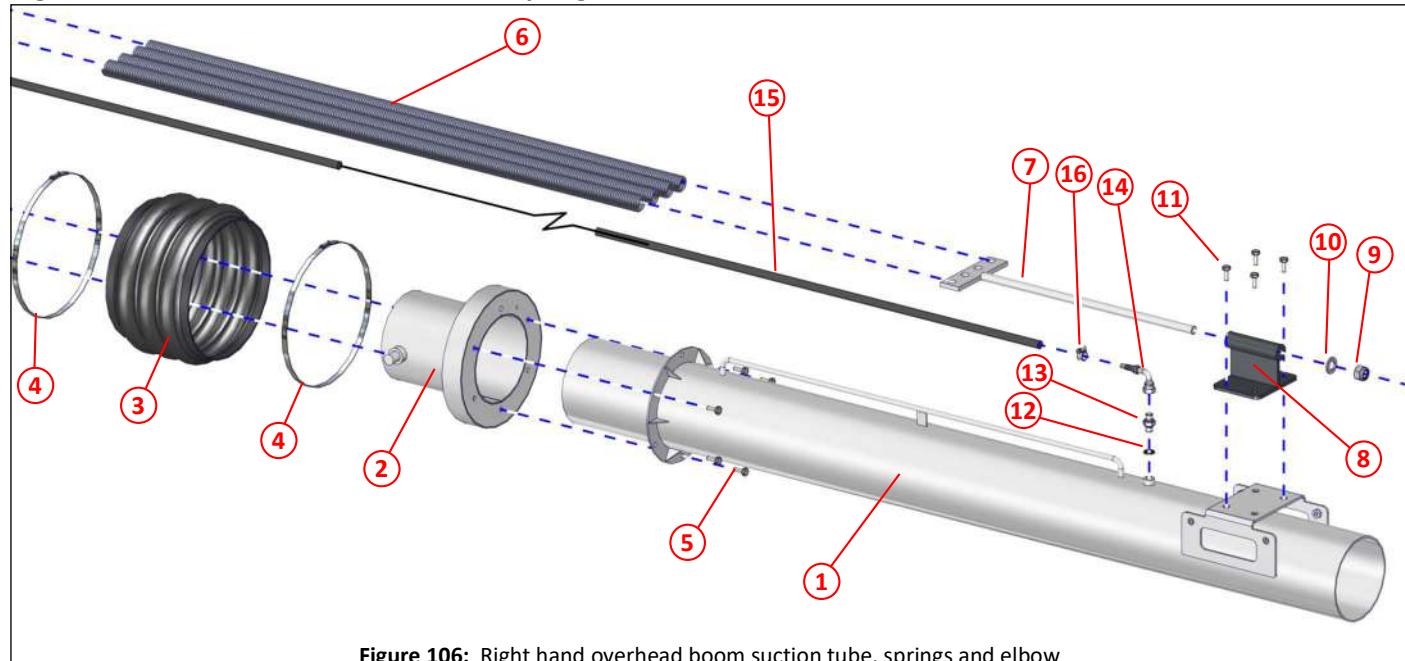


Figure 106: Right hand overhead boom suction tube, springs and elbow

Item	Part No	Qty	Description	
①	044120	1	Pipe, suction, overhead boom	131,134,136
②	044121	1	Pivot, overhead boom	134
③	044107	1	Cuff, overhead boom pivot	131,134
④	012933	2	Hose clamp, worm drive, No. 10.50 (ϕ 235mm- ϕ 267mm)	
⑤	011010	6	Set screw M8 x 20	
⑥	013805	4	Spring 800	131,134
⑦	013804	1	Tensioner, overhead boom	
⑧	044126	1	Bracket, spring tensioner	131
⑨	011060	1	Nyloc nut M16	
⑩	011135	1	Plain washer M16	
⑪	011010	4	Set screw M8 x 20	
⑫	011152	1	Dowty seal $\frac{1}{4}$ " BSP	
⑬	011158	1	Adapter $\frac{1}{4}$ " BSP	
⑭	002237	1	Adapter $\frac{1}{4}$ " BSPF x $\frac{3}{8}$ " hose tail, 90°	
⑮	010950	As req	Hose ϕ 9.5 ID, black braided PVC	
⑯	010516	2	Hose clamp, worm drive, No. M00 (ϕ 11mm- ϕ 16mm)	

Right hand overhead boom suction hose and cradle

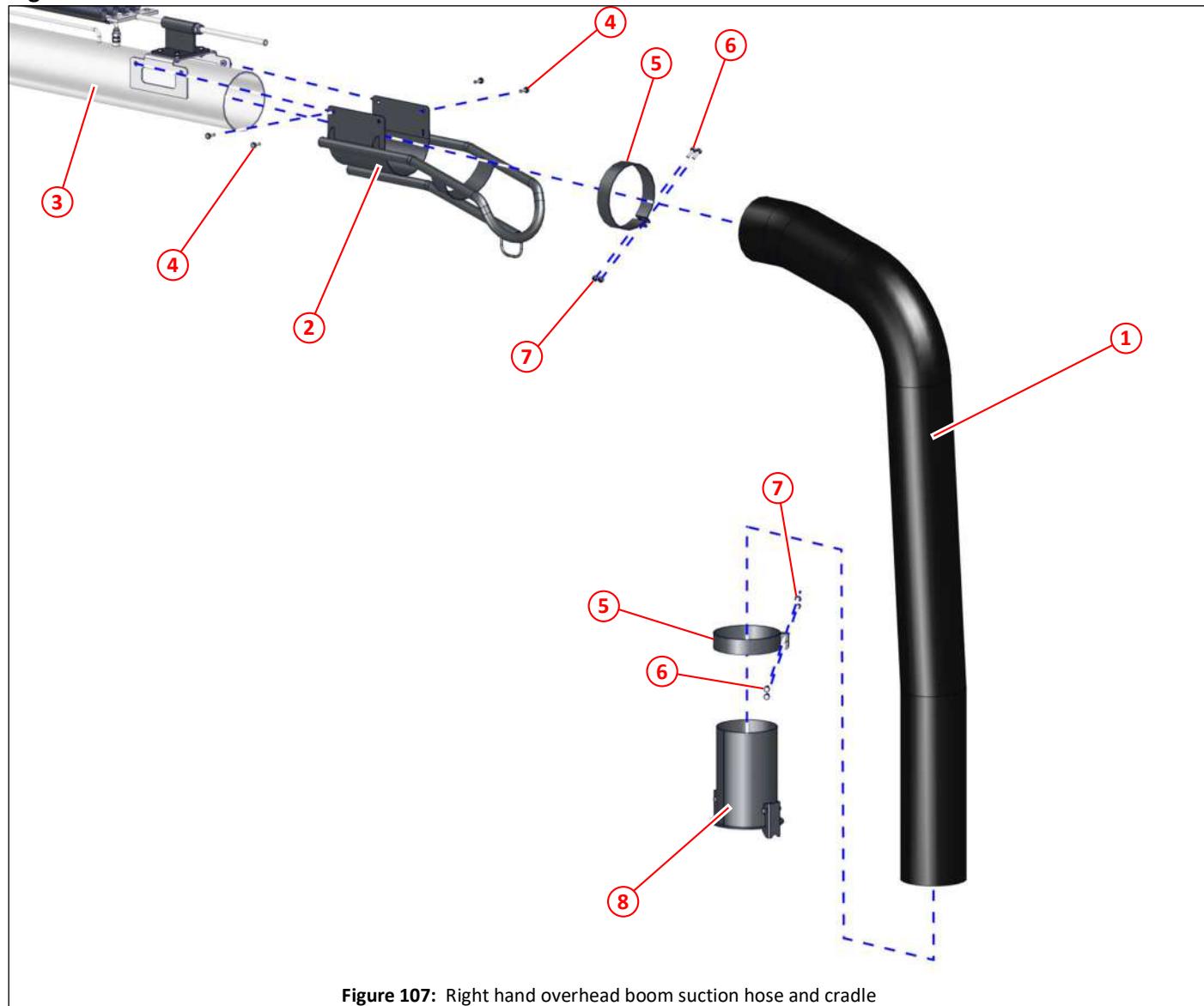
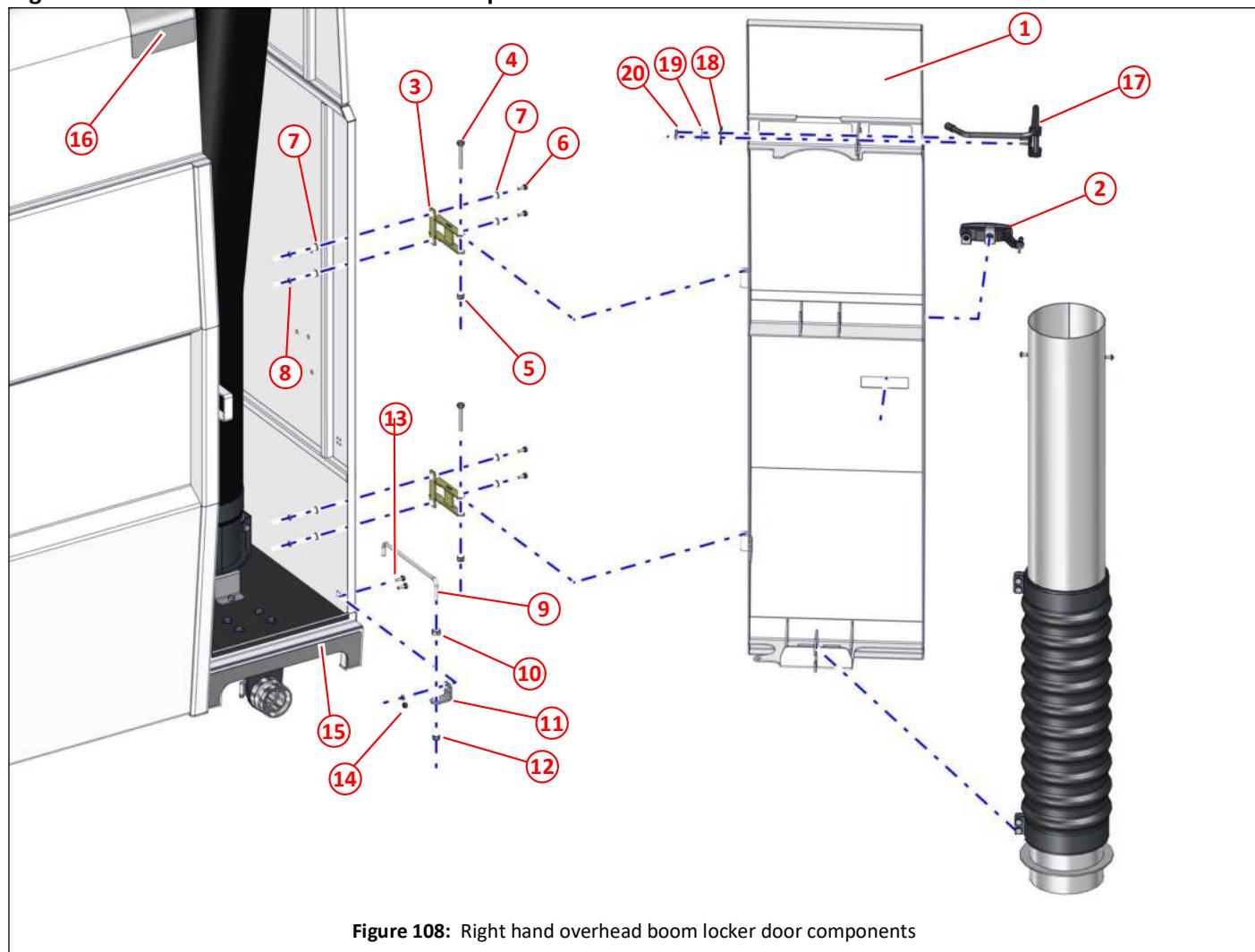


Figure 107: Right hand overhead boom suction hose and cradle

Item	Part No	Qty	Description	
①	044105	2m	Hose, overhead boom	131
②	044122	1	Cradle, overhead boom	131
③	044120	1	Pipe, suction, overhead boom	131,134,135
④	011010	4	Set screw M8 x 20	
⑤	044376	2	Clamp, hose, overhead boom	
⑥	000257	4	Set screw M8 x 25, stainless steel	
⑦	000263	4	Nyloc nut M8, stainless steel	
⑧	044124	1	Hose coupling, overhead boom	131

Right hand overhead boom locker door components

Figure 108: Right hand overhead boom locker door components

Item	Part No	Qty	Description	
①	044747	1	Door, locker, overhead boom, right hand	131
②	033115	1	Latch, locking	
③	044144	2	Hinge, locker door, overhead boom	
④	000261	2	Set screw M8 x 55, stainless steel	
⑤	000263	2	Nyloc nut M8, stainless steel	
⑥	000250	4	Set screw M6 x 16, stainless steel	
⑦	000254	4	Plain washer M6, stainless steel	
⑧	000253	4	Nyloc nut M6, stainless steel	
⑨	044407	1	Door stay, overhead boom	
⑩	011074	1	Full nut M10	
⑪	044408	1	Bracket, door stay, overhead boom	
⑫	000263	1	Nyloc nut M8, stainless steel	
⑬	011001	2	Set screw M6 x 16	
⑭	011071	2	Nyloc nut M6	
⑮	044383	1	Plate, locker protector, overhead boom	131,138
⑯	044384	1	Plate, hopper protector, overhead boom	131
⑰	045593	1	Hose protector right hand side	
⑱	027989	1	Plate, backing brace	
⑲	000254	2	Plain washer M6, stainless steel	
⑳	000253	2	Nyloc nut M6, stainless steel	

Right hand overhead boom stowage components

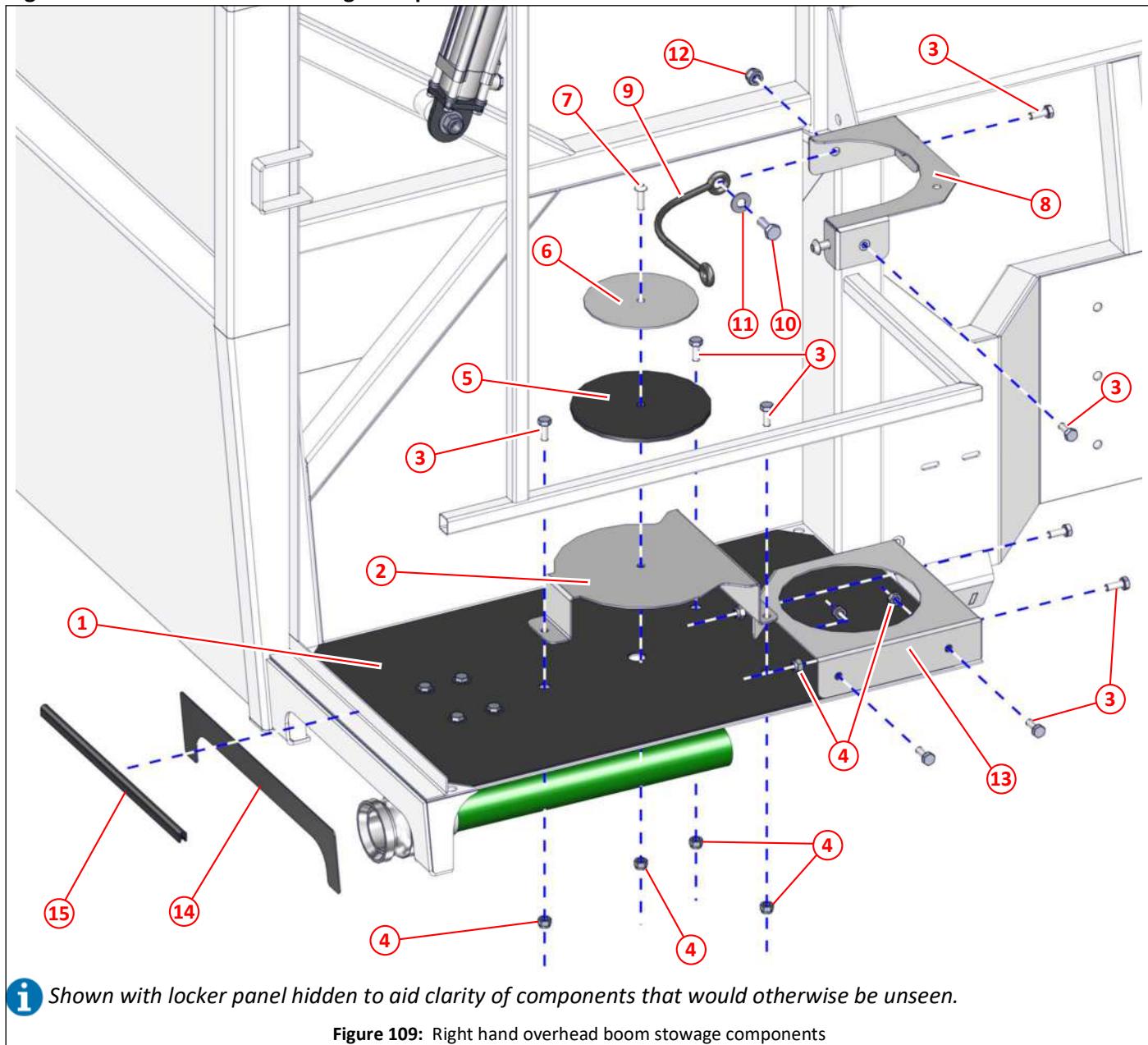
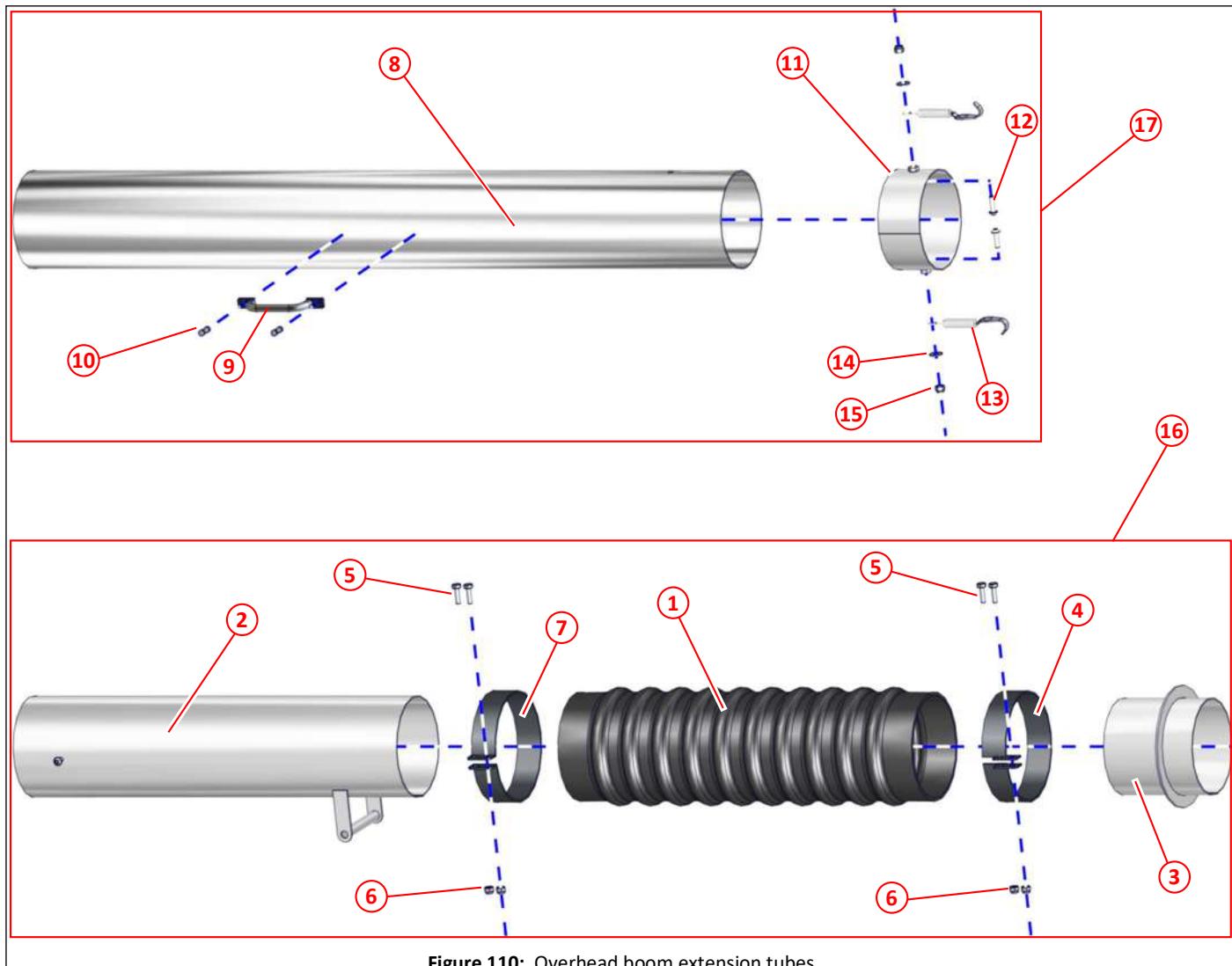


Figure 109: Right hand overhead boom stowage components

Item	Part No	Qty	Description	
①	044150	1	Rubber mat	
②	044127	1	Bracket, hose coupling stowage	
③	000256	9	Set screw M8 x 20, stainless steel	
④	000263	8	Nyloc nut M8, stainless steel	
⑤	044129	1	Sealing disc, rubber	
⑥	044130	1	Sealing plate	
⑦	000281	1	Socket button head screw, M8 x 25, stainless steel	
⑧	044752	1	Bracket, upper, extension stowage	
⑨	044007	1	Mini-tie No. 10	
⑩	000280	1	Set screw M10 x 25, stainless steel	
⑪	000270	1	Plain washer M10, stainless steel	
⑫	000269	1	Nyloc nut m10, stainless steel	
⑬	044149	1	Bracket, bottom, extension stowage	
⑭	044383	1	Plate, locker protector, overhead boom	131,137
⑮	010545	345mm	Titanfast, edging strip	

Overhead boom extension tubes

Figure 110: Overhead boom extension tubes

Item	Part No	Qty	Description	
①	044106	1	Hose, extension, overhead boom	
②	044141	1	Extension, overhead boom	
③	044140	1	Coupling, overhead boom extension	
④	036100	2	Clamp, hose, overhead boom	
⑤	000257	4	Set screw M8 x 25, stainless steel	
⑥	000263	4	Nyloc nut M8, stainless steel	
⑦	044376	1	Clamp, hose, overhead boom	
⑧	044153	1	Extension tube	
⑨	010502	1	Handle	
⑩	011131	4	Rivet, blind Ø4.8 x 18	
⑪	044154	1	Collar, overhead boom	
⑫	000281	2	Socket button head screw M8 x 25, stainless steel	
⑬	044014	2	Spring fastener, stainless steel	
⑭	000264	2	Plain washer M8, stainless steel	
⑮	000263	2	Nyloc nut M8, stainless steel	
⑯	044139	1	Extension, flexible, overhead boom, complete assembly	131
⑰	044155	1	Extension, overhead boom, complete assembly	131

Overhead boom water switch

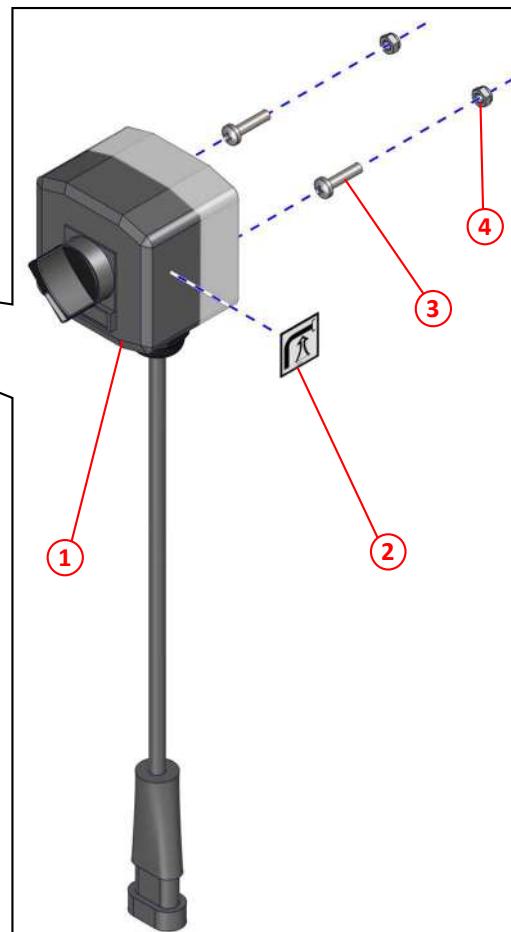
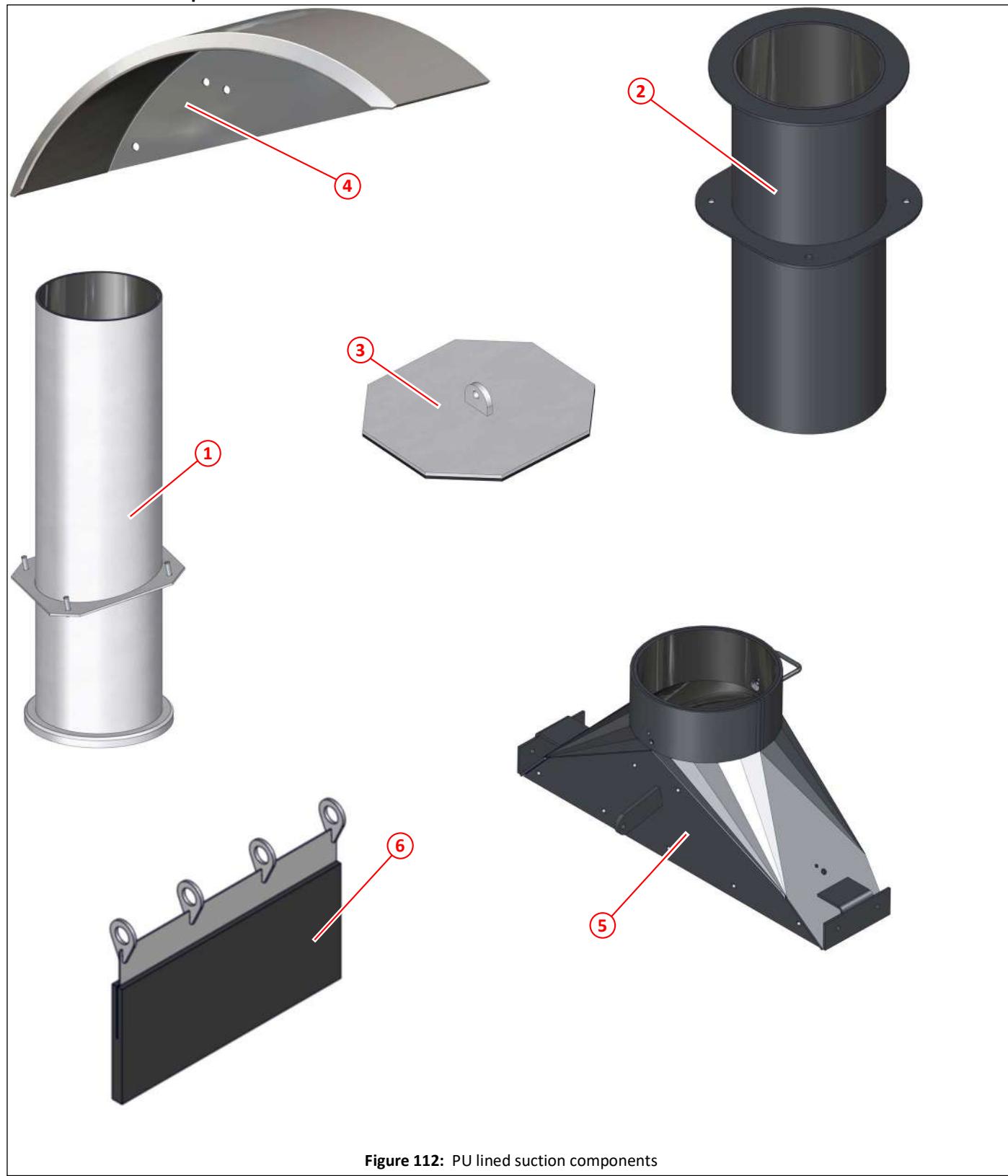


Figure 111: Overhead boom water switch

Item	Part No	Qty	Description	
①	036908	1	Switch and loom for over head boom water	330
②	039548	1	Label - Over head boom	453
③	000402	2	Pozidrive head, screw M5 x 20	
④	000155	2	Nyloc nut M5	

PU lined suction components

Figure 112: PU lined suction components

Item	Part No	Qty	Description	
①	051106	1	Tube, deflector, PU lined	
②	051137	1	Suction spigot, PU lined	
③	050717	1	Flap lid, auto blanking, PU lined	
④	050823	1	Deflector, PU lined	
⑤	050718	1	Suction nozzle, PU lined	
⑥	044606	1	Deflector swing plate, PU lined	

Suction fan

<i>Description</i>	<i>Page</i>
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Suction fan motor	145
Suction fan inlet cone and guard	146
Suction fan filter screen	147

Suction fan arrangement

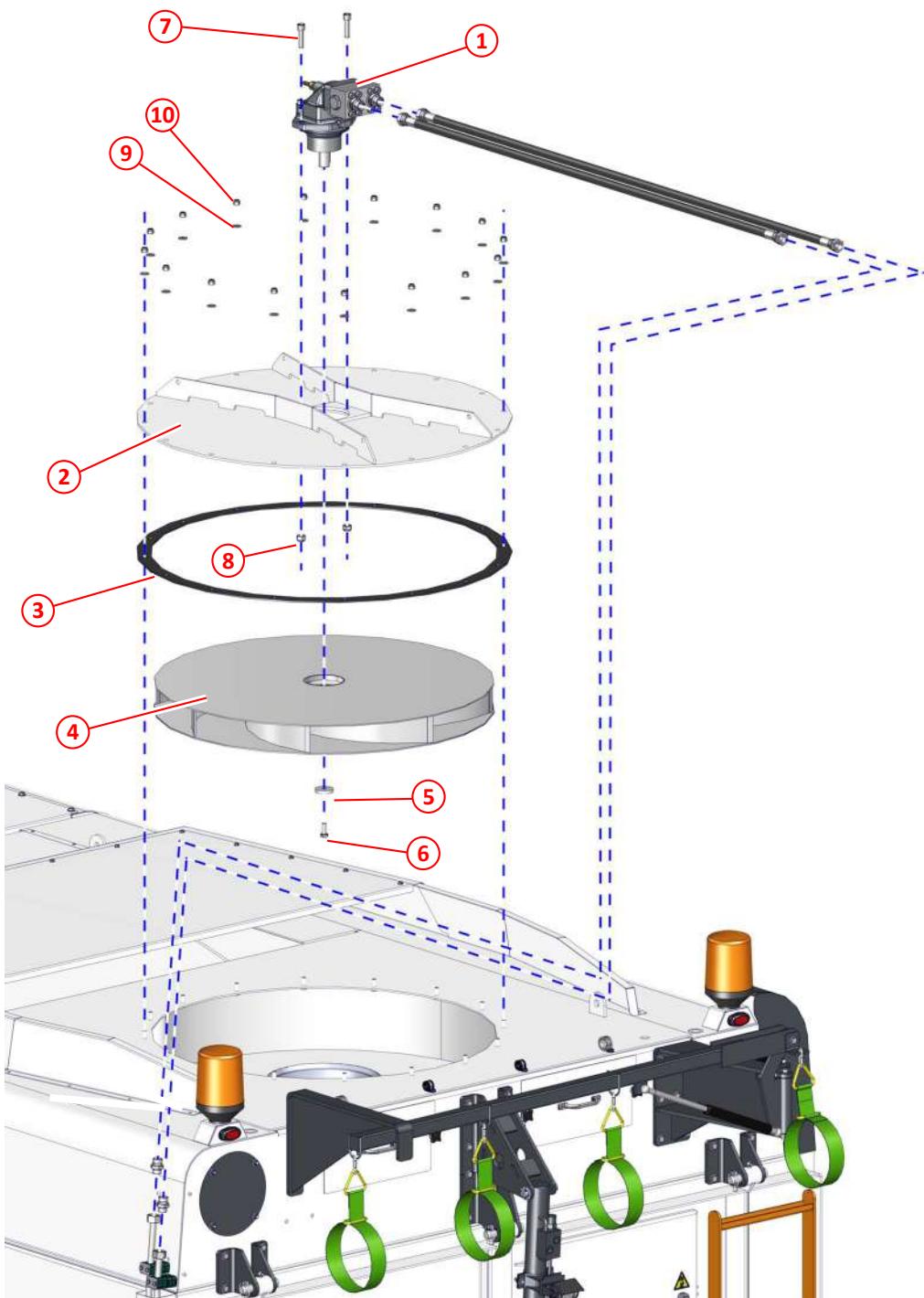


Figure 113: Suction fan arrangement

Item	Part No	Qty	Description	
①	044553	1	Fan Motor assembly145	145
②	024679	1	Fan plate (compact)	
③	010546	As req	Seal strip 3 x 38	
④	030651	1	Impeller, stainless steel	
⑤	044926	1	Washer ø12.5 x ø50 x 8, stainless steel	
⑥	011052	1	Set screw M12 x 30	
⑦	000343	2	Socket cap head bolt M14 x 50, black	
⑧	011127	2	Nyloc nut M14	
⑨	011094	16	Plain washer M10	
⑩	011075	16	Nyloc nut M10	

Suction fan motor

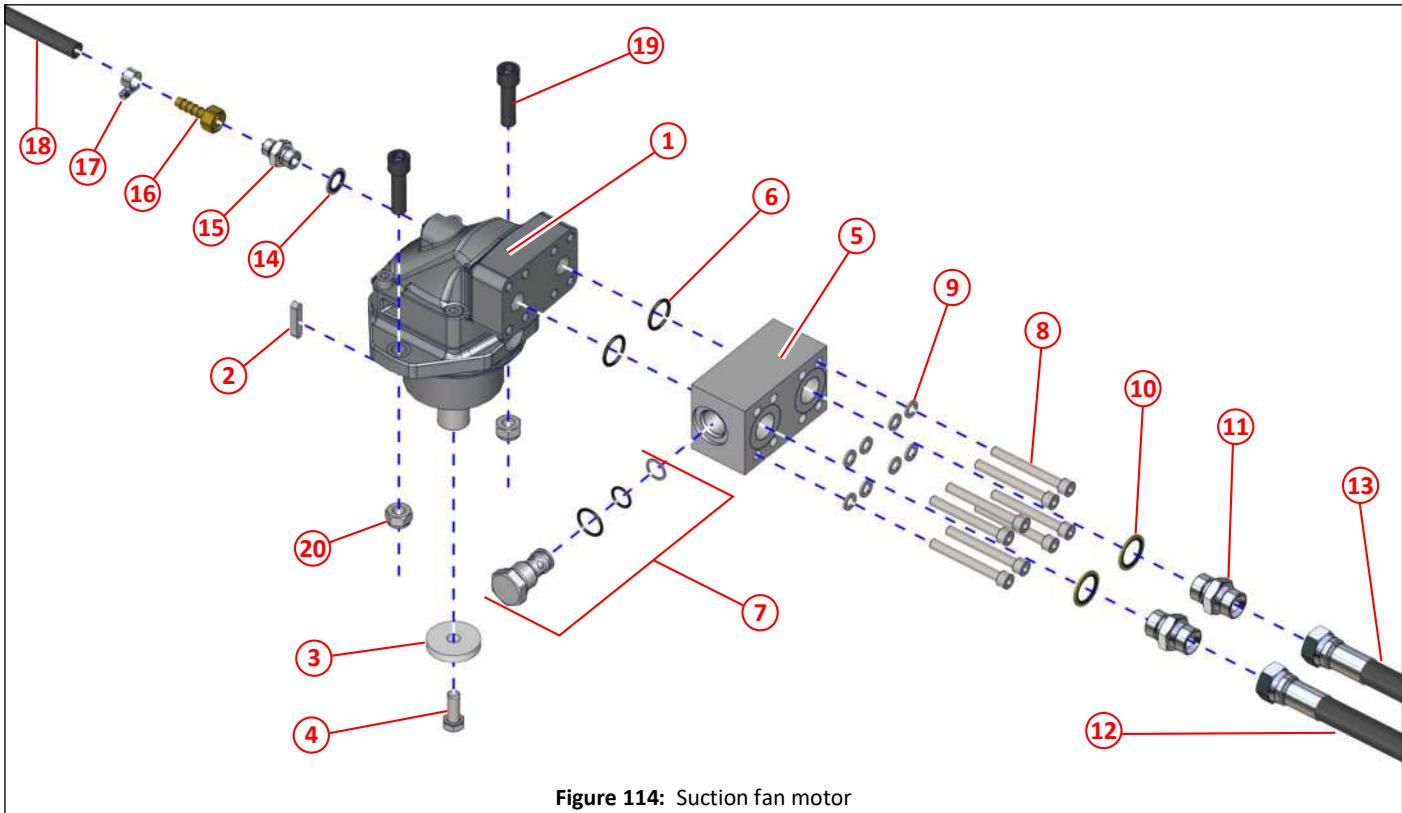


Figure 114: Suction fan motor

Item	Part No	Qty	Description	
①	024641	1	Fan motor	261
②	013292	1	Key for item ①	
③	044926	1	Washer ø12.5 x ø50 x 8, stainless steel	
④	011052	1	Set screw M12 x 30	
⑤	041633*	1	Manifold, anti-cavitation valve	
⑥	041634*	2	'O' ring	
⑦	041635*	1	Check valve, includes seals and washer	
⑧	000048	8	Socket cap head screw M10 x 80	
⑨	011095	8	Spring washer M10	
⑩	011155	2	Dowty seal $\frac{3}{4}$ " BSP	
⑪	011161	2	Adapter $\frac{3}{4}$ " BSP	
⑫	001322	1	Hose $\frac{5}{8}$ " x 1550, $\frac{3}{4}$ " BSP straight ends	
⑬	001323	1	Hose $\frac{5}{8}$ " x 1700, $\frac{3}{4}$ " BSP straight ends	
⑭	011247	1	Dowty seal M18	
⑮	011248	1	Adapter M18 x $\frac{3}{8}$ " BSP	
⑯	010921	1	Adapter $\frac{3}{8}$ " BSP x $\frac{3}{8}$ " hose tail, complete with nut	
⑰	010516	1	Hose clamp, worm drive No. MOO (\varnothing 11mm- \varnothing 16mm)	
⑱	010958	As req	Hose $\frac{3}{8}$ "	
⑲	000343	2	Socket cap head bolt M14 x 50, black	
⑳	011127	2	Nyloc nut M14	

*	041564	1	Anti-cavitation valve assembly, includes items ⑤, ⑥ and ⑦
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Suction fan

Suction fan inlet cone and guard

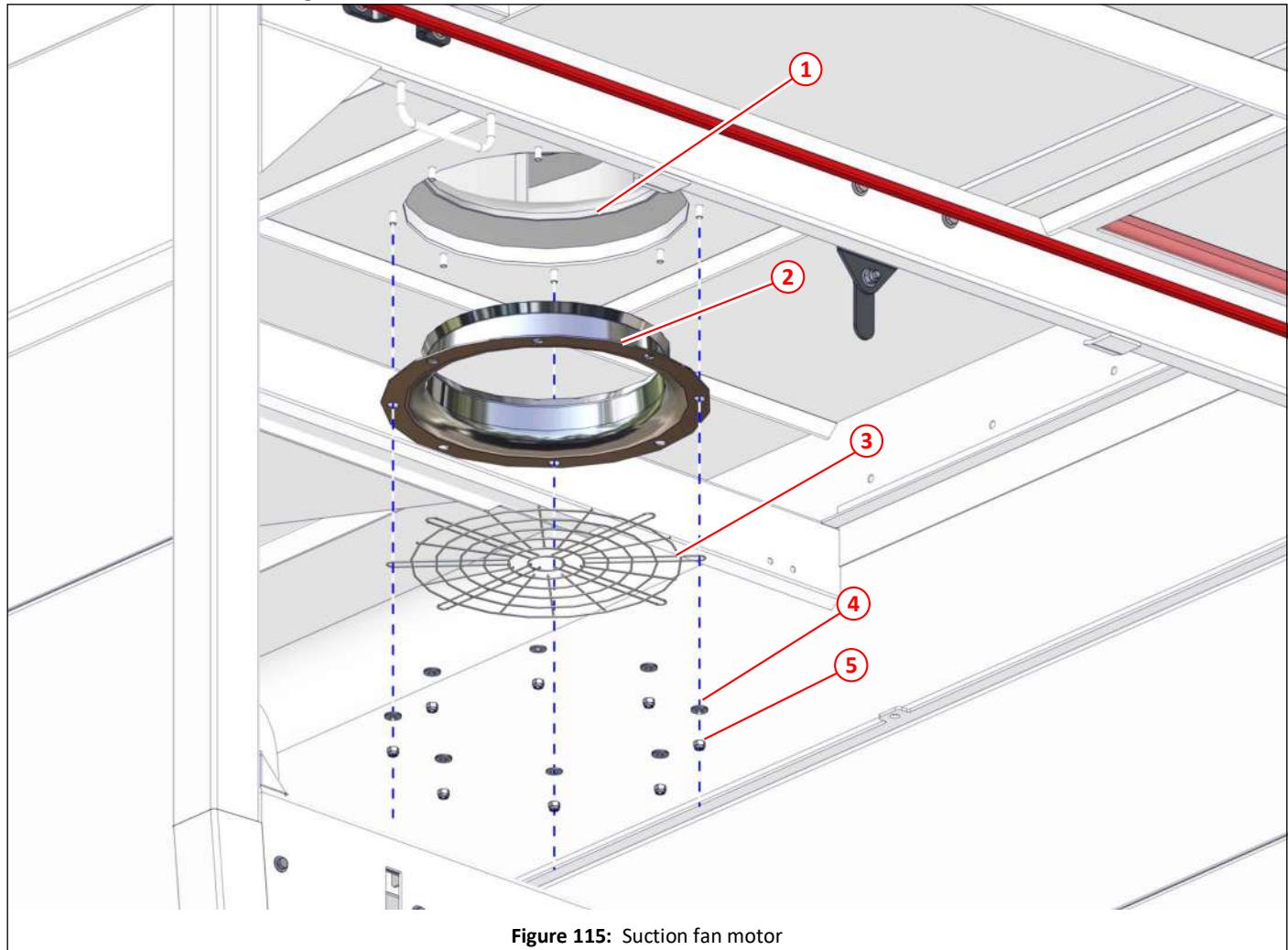


Figure 115: Suction fan motor

Item	Part No	Qty	Description	
①	030651	1	Impeller, stainless steel	144
②	032357	1	Inlet cone, stainless steel	171
③	039674	1	Guard, fan	171
④	000264	8	Plain washer, M8, stainless steel	
⑤	000263	8	Nyloc nut M8, stainless steel	

Suction fan filter screen

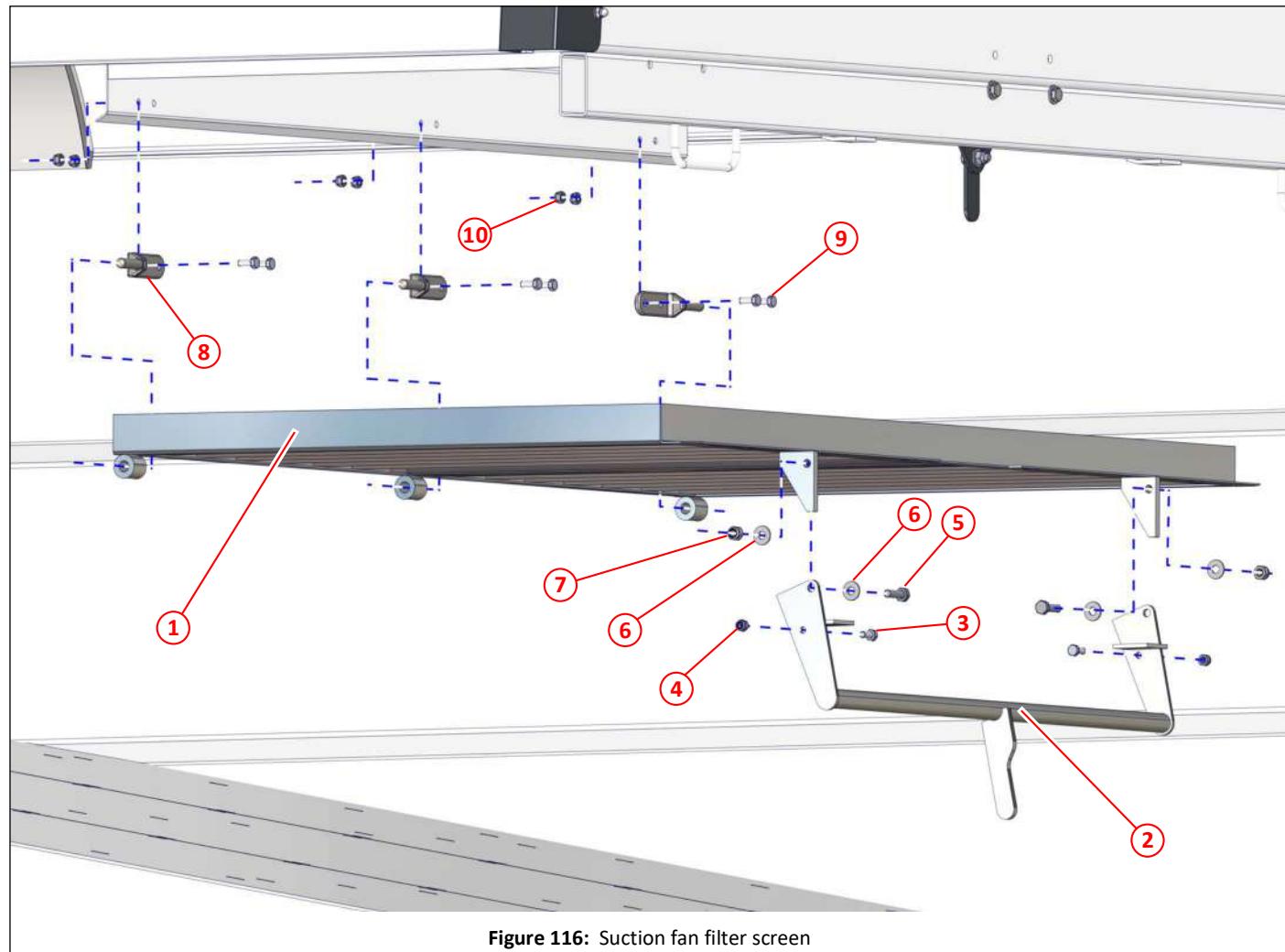


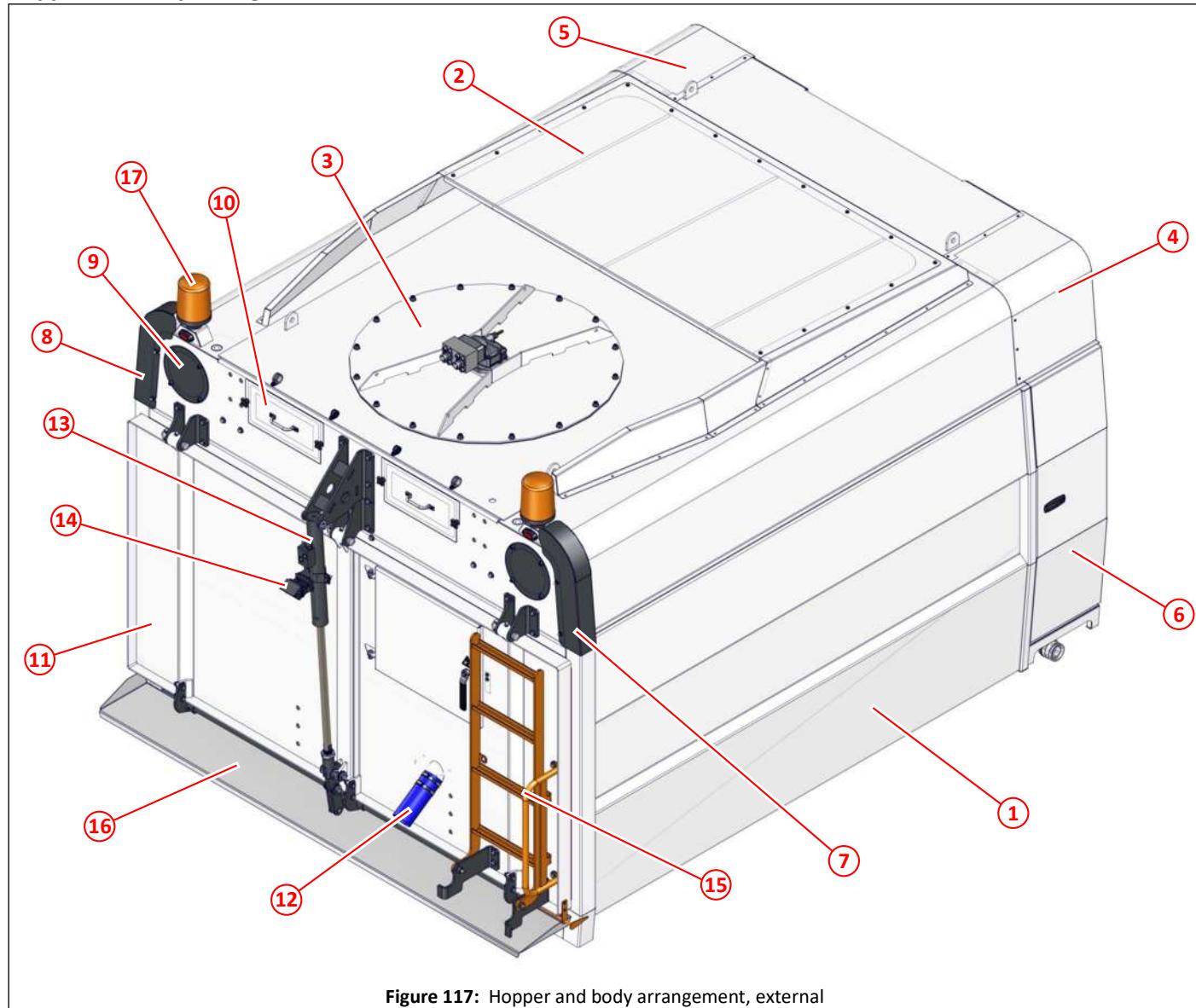
Figure 116: Suction fan filter screen

Item	Part No	Qty	Description	
①	031883	1	Screen, filter, suction fan, stainless steel	171
②	039312	1	Latch, long handle, screen	171
③	000256	2	Set screw M8 x 20, stainless steel	
④	000263	2	Nyloc nut, M8, stainless steel	
⑤	000462	2	Set screw M10 x 35, stainless steel	
⑥	011094	4	Plain washer M10	
⑦	011075	2	Nyloc nut M10	
⑧	025245	3	Gudgeon	
⑨	000256	6	Set screw M8 x 20, stainless steel	
⑩	000263	6	Nyloc nut, M8, stainless steel	

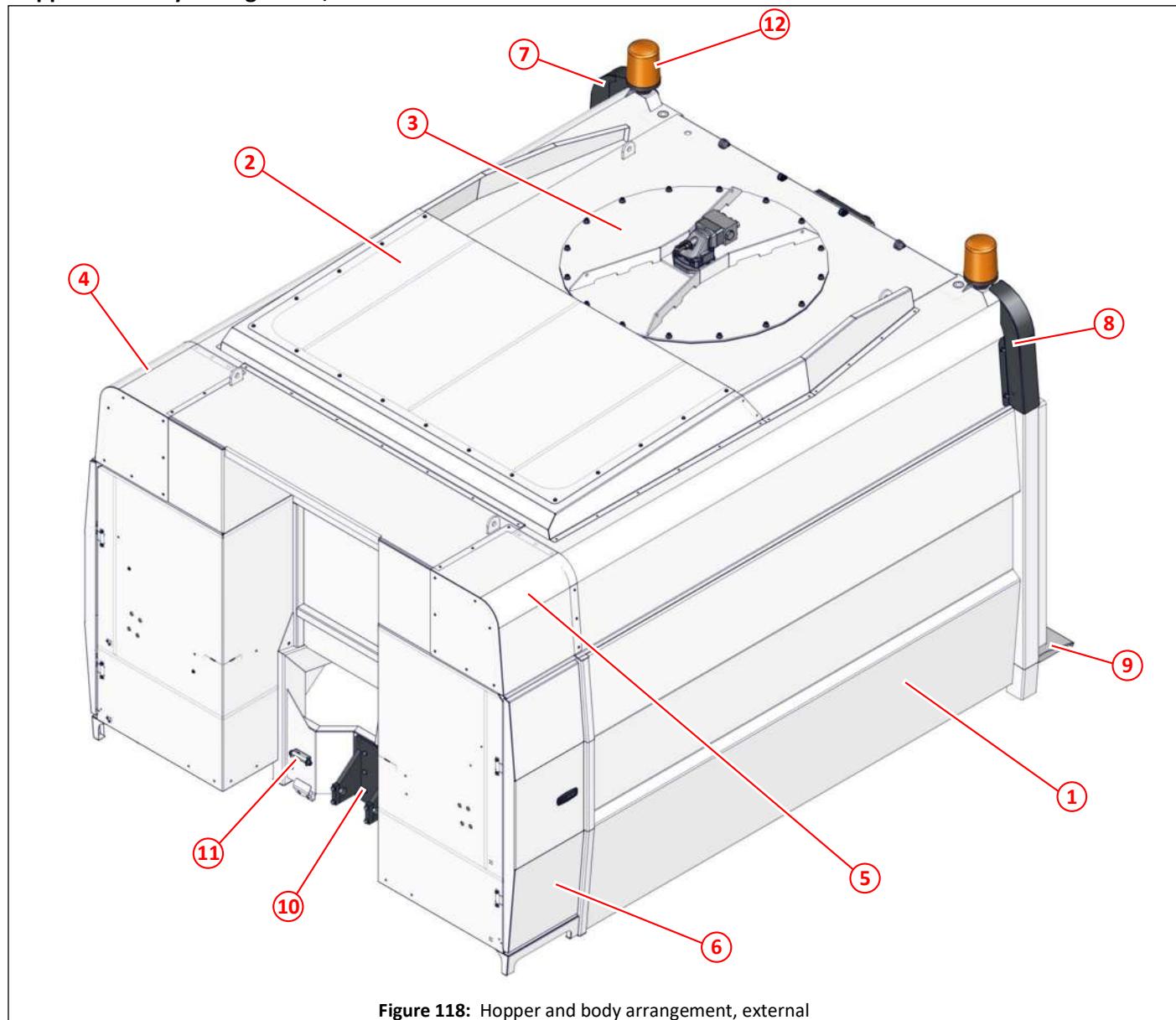
Hopper and body

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Locking bar, rear door	190
Locking cam, rear door	191
Locking wear plates, rear door	192
Rear camera mountings	193
Direction sign, rear door mounted	194

Hopper and body arrangement, external



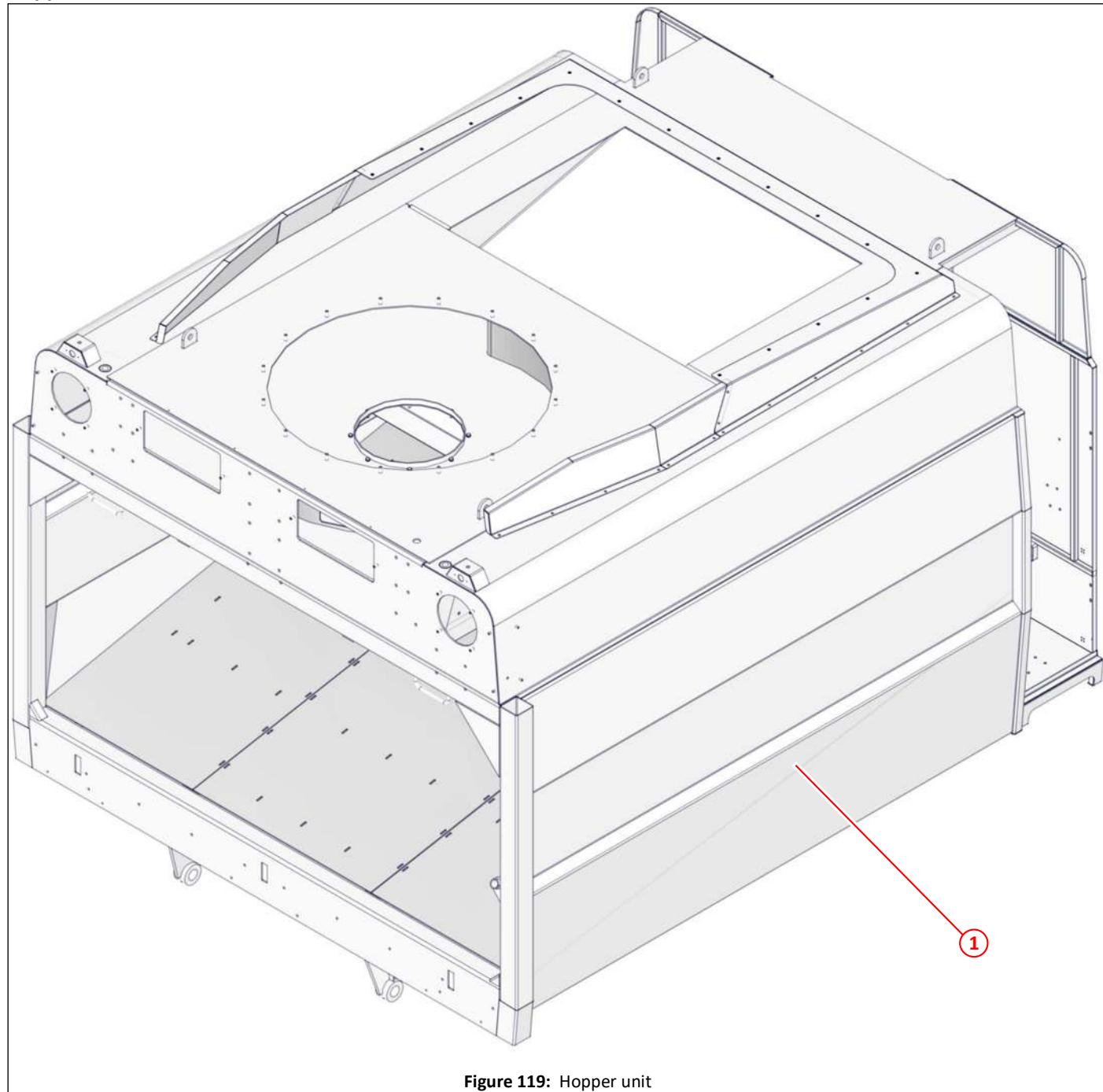
Item	Part No	Qty	Description	
①	044685	1	Hopper, fully welded	152
②	040042	1	Lid, cover frame, hopper	153
③			Suction fan	144
④	044689	1	Cover, hopper locker, right hand side	157
⑤	044688	1	Cover, hopper locker, left hand side	157
⑥	044691	1	Door, locker, right hand side	165
⑦	040018	1	Capping, right hand side	158
⑧	043723	1	Capping, left hand side	158
⑨	025486	1	Cover plate, wander hose duct	159
⑩		2	Cover, inspection, outer	162
⑪			Door, rear	178,179,180
⑫	010998	1.5m	Hose, lay flat	178,179,180,186
⑬	034816	1	Ram, door opening and locking	189,272
⑭	040354	1	Camera, rear, standard fitting displayed on CANbus screen	178,329
⑮			Ladder and handle	183,184
⑯			Chute, hopper	167
⑰			Beacon	328

Hopper and body arrangement, external


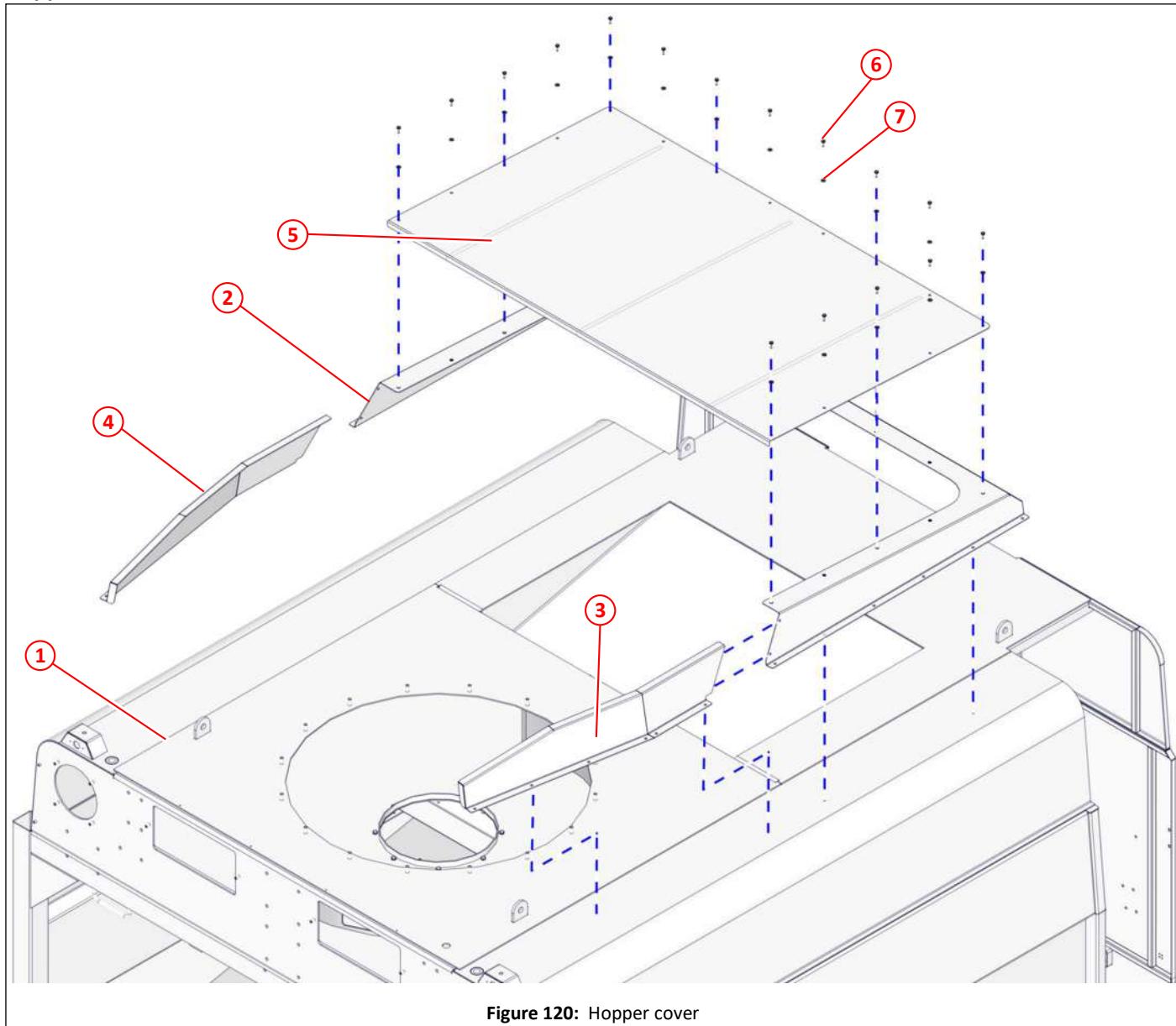
Item	Part No	Qty	Description	
①	044685	1	Hopper, fully welded	152
②	040042	1	Lid, cover frame, hopper	153
③			Suction fan	144
④	044689	1	Cover, hopper locker, right hand side	157
⑤	044688	1	Cover, hopper locker, left hand side	157
⑥	044690	1	Door, locker, left hand side	166
⑦	040018		Capping, hopper, right hand side	158
⑧	043723		Capping, hopper, left hand side	158
⑨			Chute, hopper	167
⑩	010719	1	Pivot, hopper lift ram	155
⑪			Roller, safety prop	156
⑫			Beacon	328

Hopper and body

Hopper unit

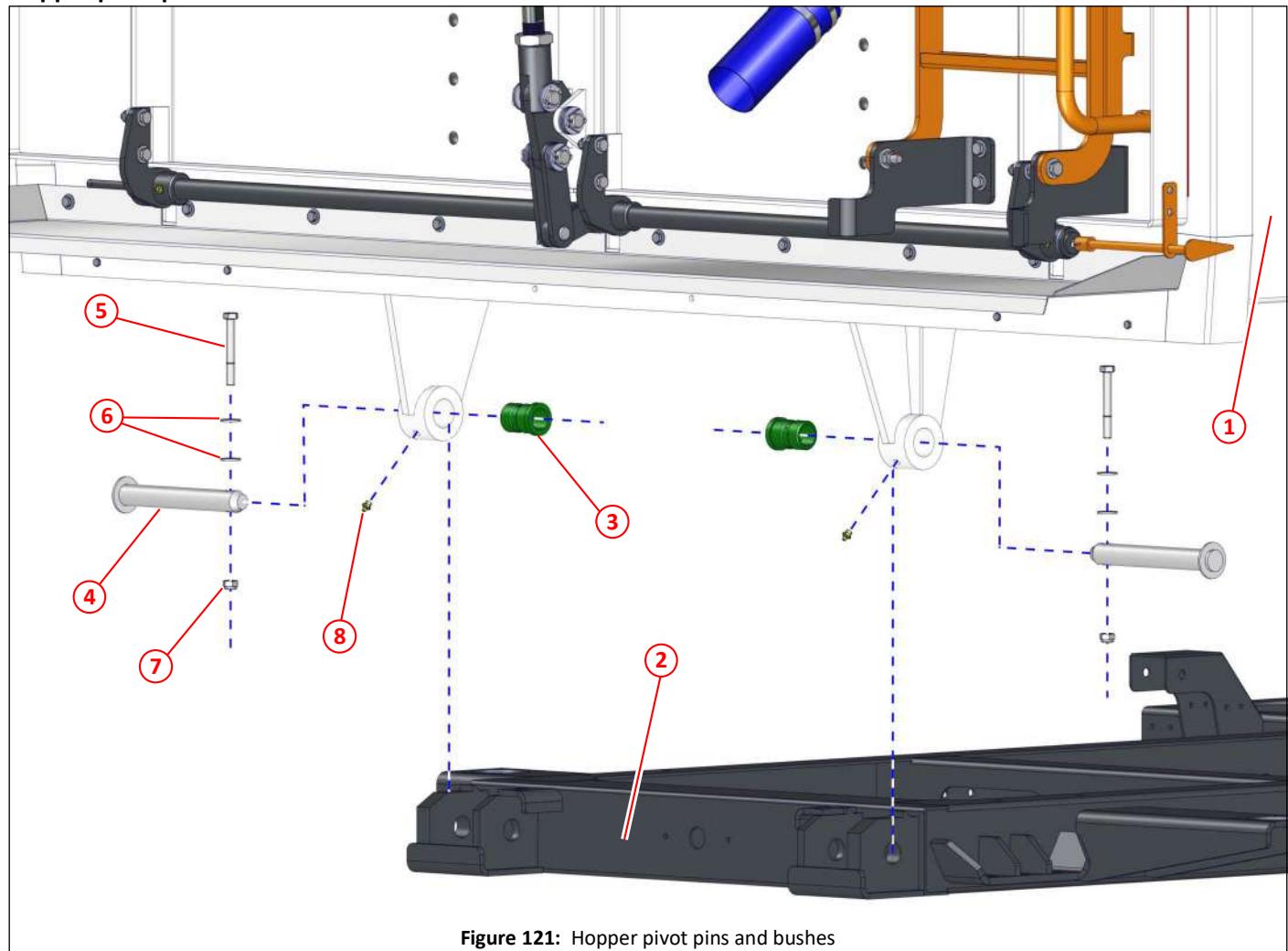


Item	Part No	Qty	Description	
①	044685	1	Hopper, fully welded	

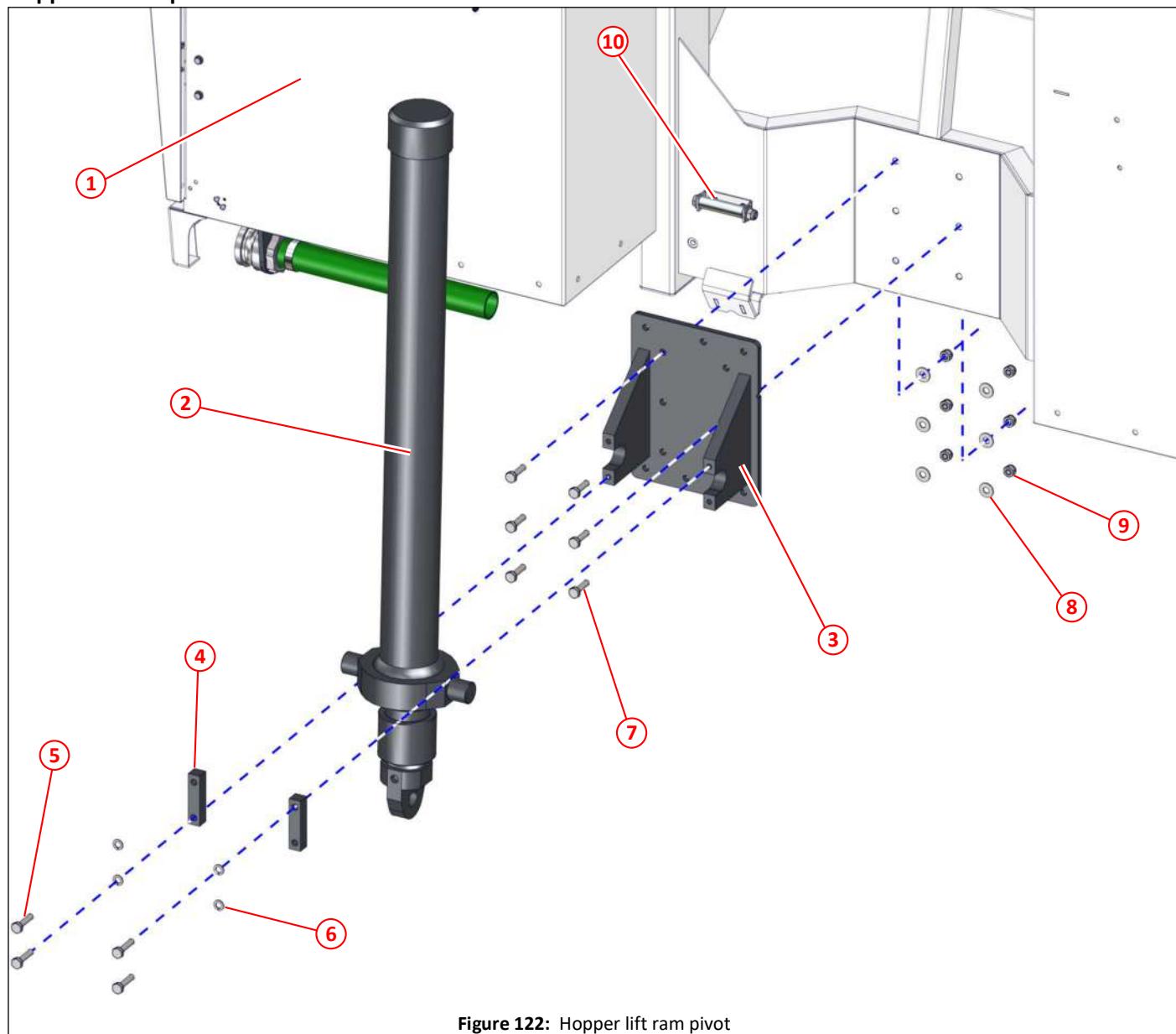
Hopper cover

Figure 120: Hopper cover

Item	Part No	Qty	Description	
①	044685	1	Hopper, fully welded	152
②	040041	1	Cover frame, hopper, welded to hopper	
③	044718	1	Extension, cover frame, hopper, right hand side, welded to hopper	
④	044080	1	Extension, cover frame, hopper, left hand side, welded to hopper	
⑤	040042	1	Lid, cover frame, hopper	
⑥	011001	16	Set screw M6 x 16	
⑦	011090	16	Plain washer M6	

Hopper pivot pins and bushes

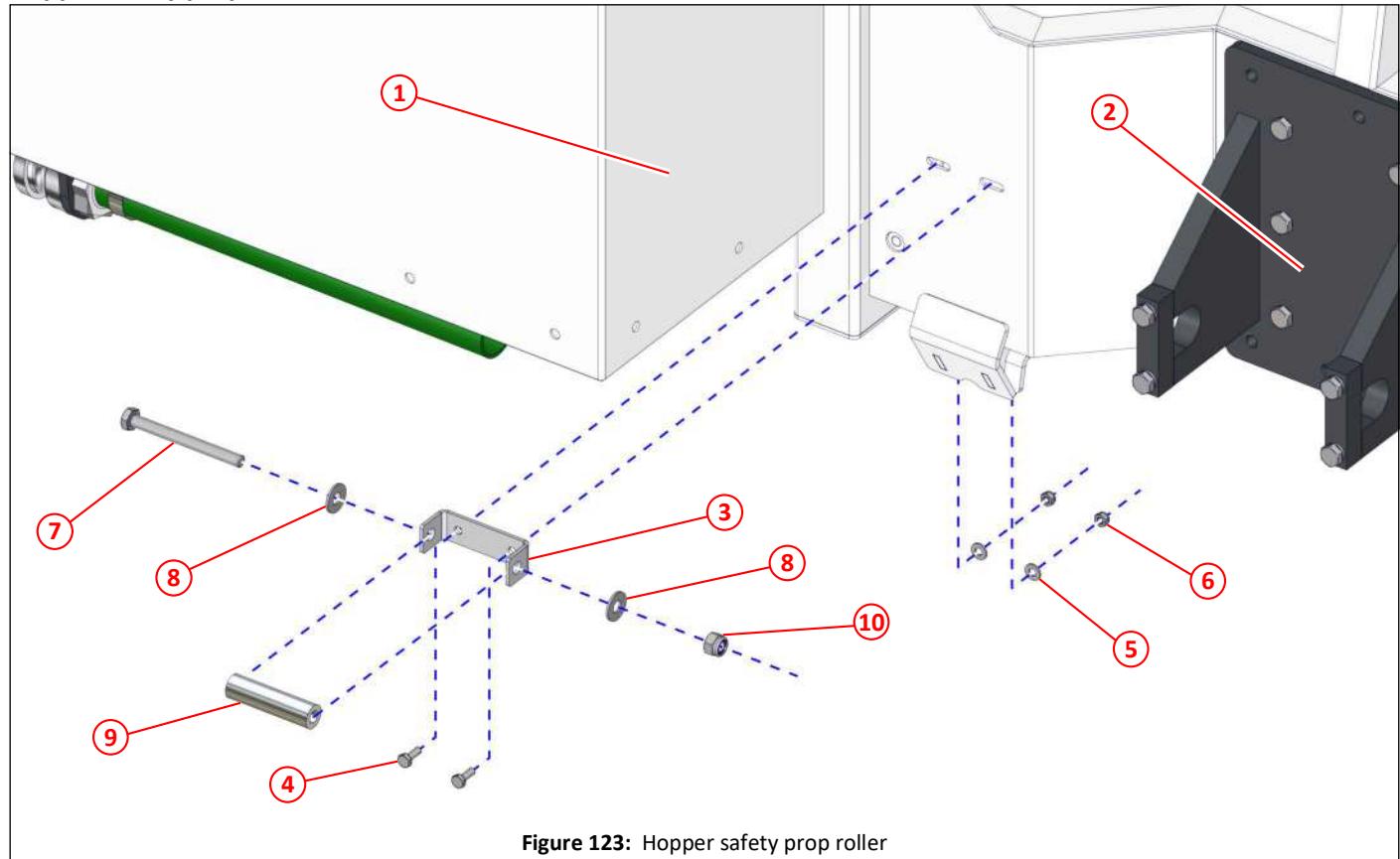


Item	Part No	Qty	Description	
①	044685	1	Hopper, fully welded	152
②	042942	1	Subframe	365,366
③	020336	2	Bush	
④	034391	2	Pivot pin, hopper	
⑤	000139	2	Bolt M12 x 90	
⑥	011096	4	Plain washer M12	
⑦	011077	2	Nyloc nut M12	
⑧	010903	2	Grease nipple $\frac{1}{8}$ " BSP, straight	

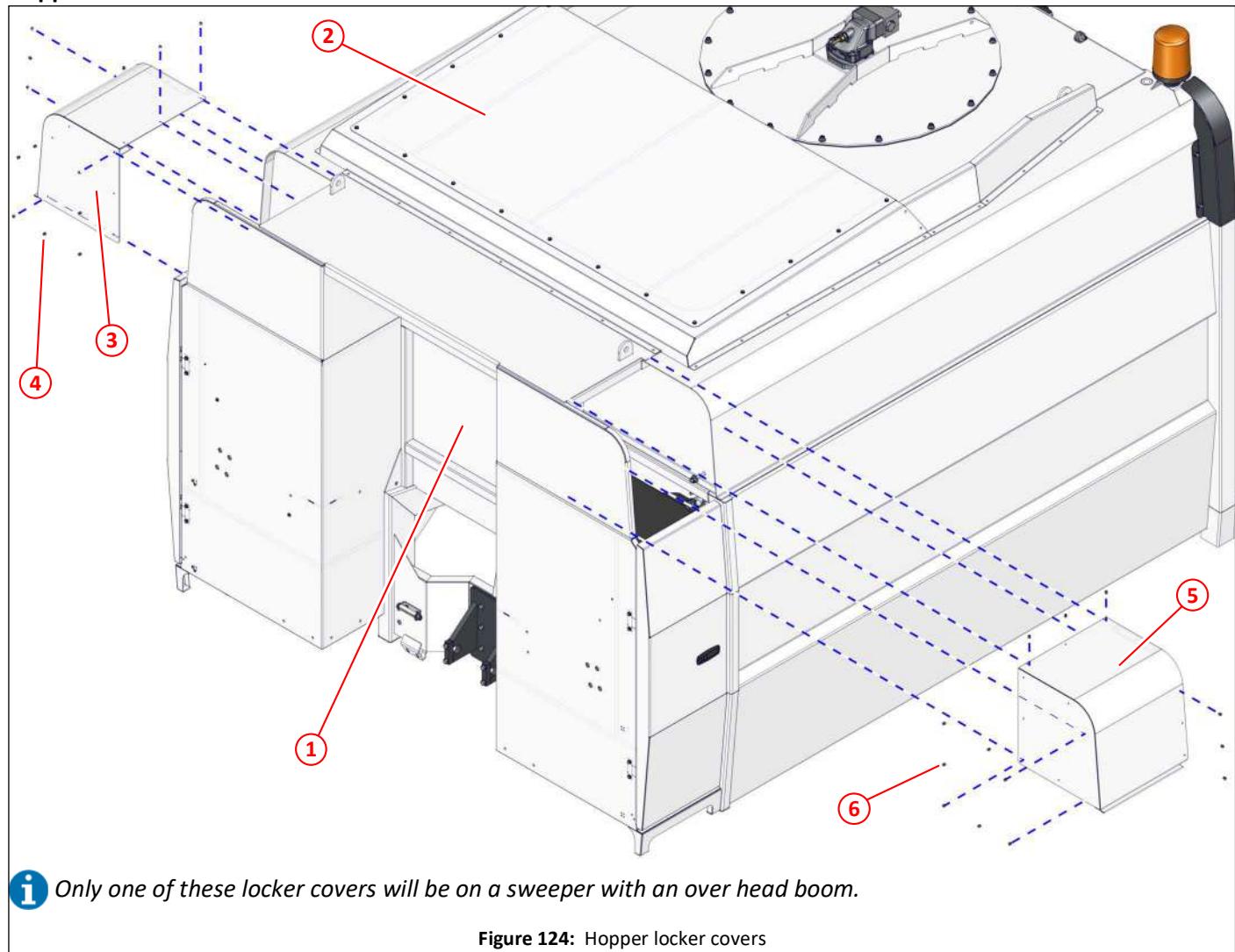
Hopper lift ram pivot


Item	Part No	Qty	Description	
①	044685	1	Hopper, fully welded	152
②	024249	1	Ram, dual acting, hopper	271
③	010719	1	Pivot, hopper ram	
④	034395	1	Pivot bar, hopper ram	
⑤	011034	4	Set screw M10 x 40	
⑥	011095	4	Spring washer M10	
⑦	011033	6	Set screw M10 x 35	
⑧	011094	6	Plain washer M10	
⑨	011075	6	Nyloc nut M10	
⑩			Guide, hopper safety prop	156

Hopper safety prop roller

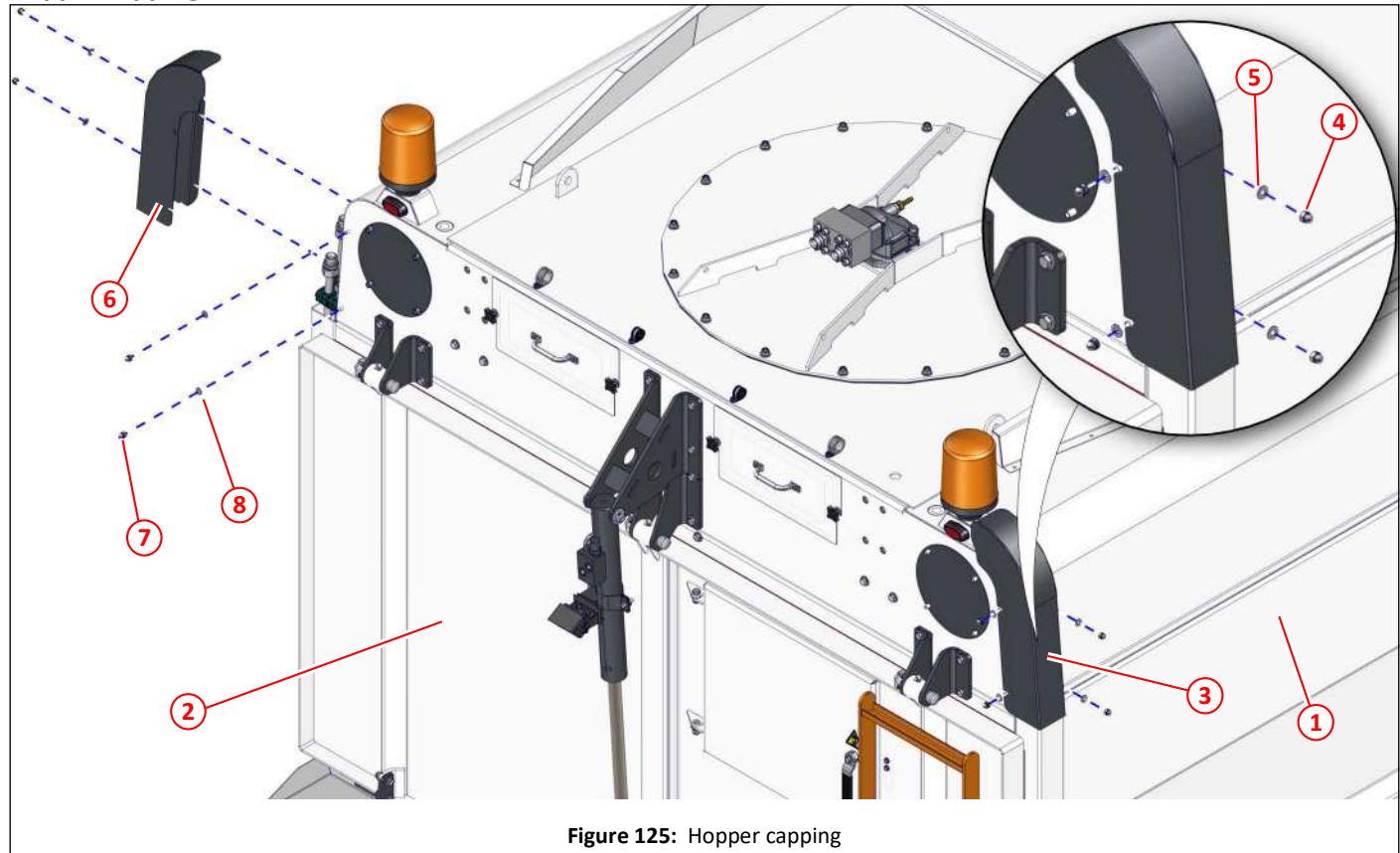


Item	Part No	Qty	Description	
①	044685	1	Hopper, fully welded	152
②	010719	1	Pivot, hopper ram	155
③	034379	1	Bracket, hopper safety prop guide. For hopper safety prop, see page 368.	
④	011001	2	Set screw M6 x 16	
⑤	011090	2	Plain washer M6	
⑥	011071	2	Nyloc nut M6	
⑦	011039	1	Bolt M10 x 100	
⑧	011094	2	Plain washer M10	
⑨	011711	1	Roller, spacer ø10.5 x ø20 x 5	
⑩	011075	1	Nyloc nut M10	

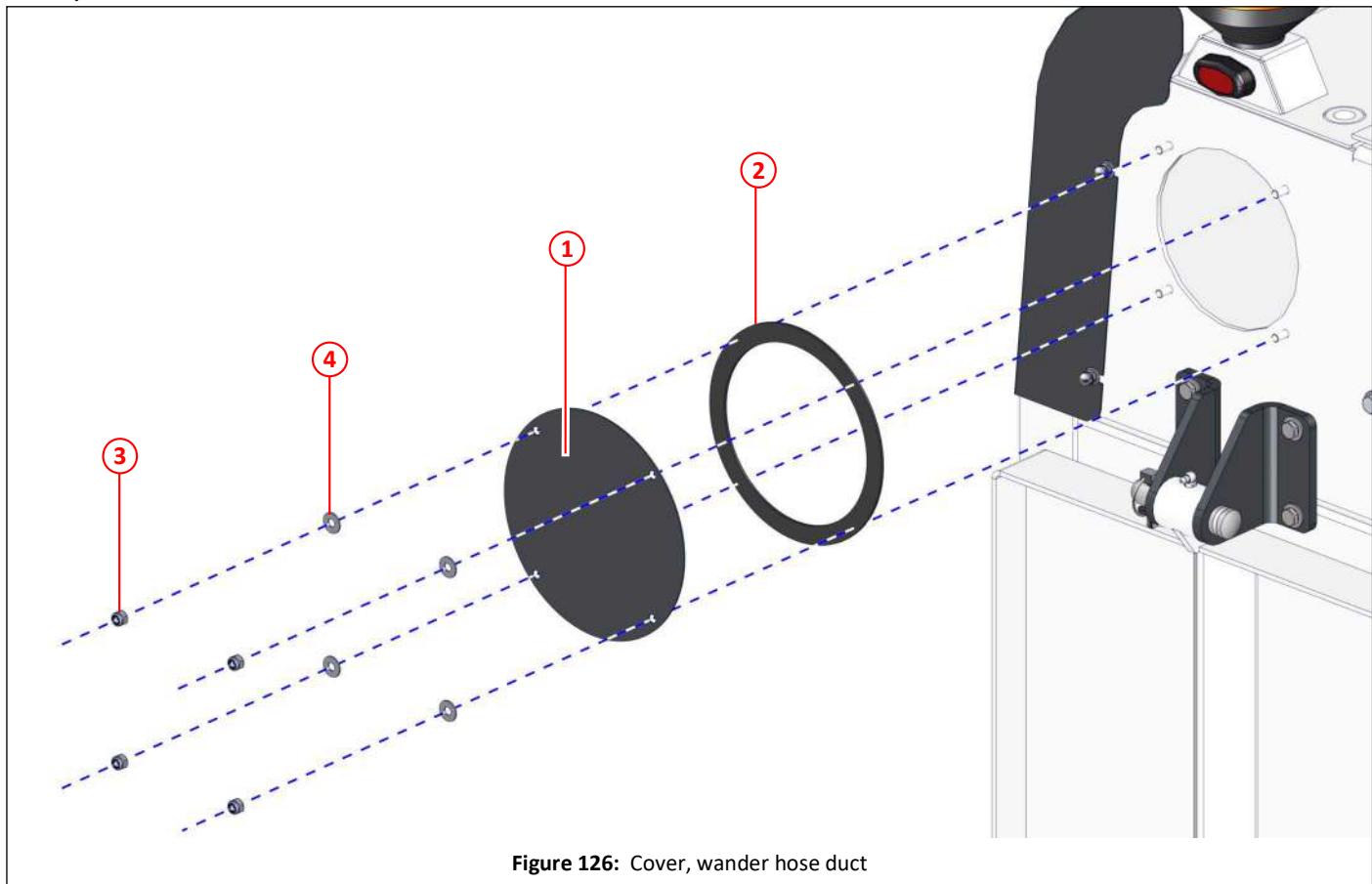
Hopper locker covers

Figure 124: Hopper locker covers

Item	Part No	Qty	Description
①	044685	1	Hopper, fully welded
②	040042	1	Lid, cover frame, hopper
③	044689	1	Cover, hopper locker, right hand side
④	011131	13	Rivet, blind Ø4.8 x 18
⑤	044688	1	Cover, hopper locker, left hand side
⑥	011131	13	Rivet, blind Ø4.8 x 18

Hopper capping



Item	Part No	Qty	Description	
①	044685	1	Hopper, fully welded	
②			Rear door	178
③	040018	1	Capping, right hand side	
④	000089	4	Dome nut M8	
⑤	000419	4	Plain washer M8, ø17	
⑥	043723	1	Capping, left hand side	
⑦	000089	4	Dome nut M8	
⑧	000419	4	Plain washer M8, ø17	

Cover, wander hose duct


Item	Part No	Qty	Description	File
①	025486	1	Cover, wander hose duct	
②	013645	As req	Seal strip 3 x 19	
③	000263	4	Nyloc nut N8, stainless steel	
④	000264	4	Plain washer M8, stainless steel	

Hopper and body

Blanking plugs on hopper rear panel with no rear wander hose

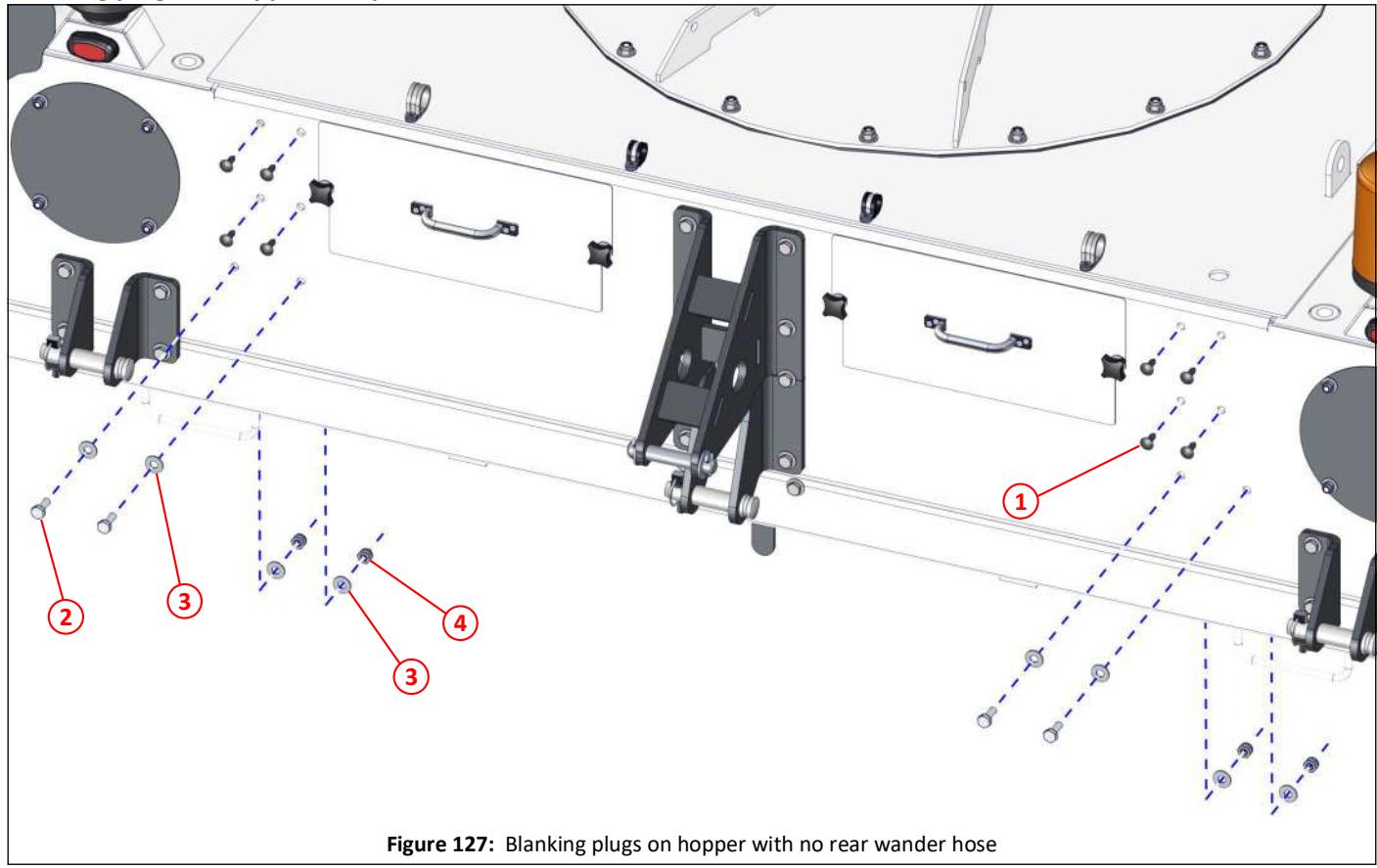
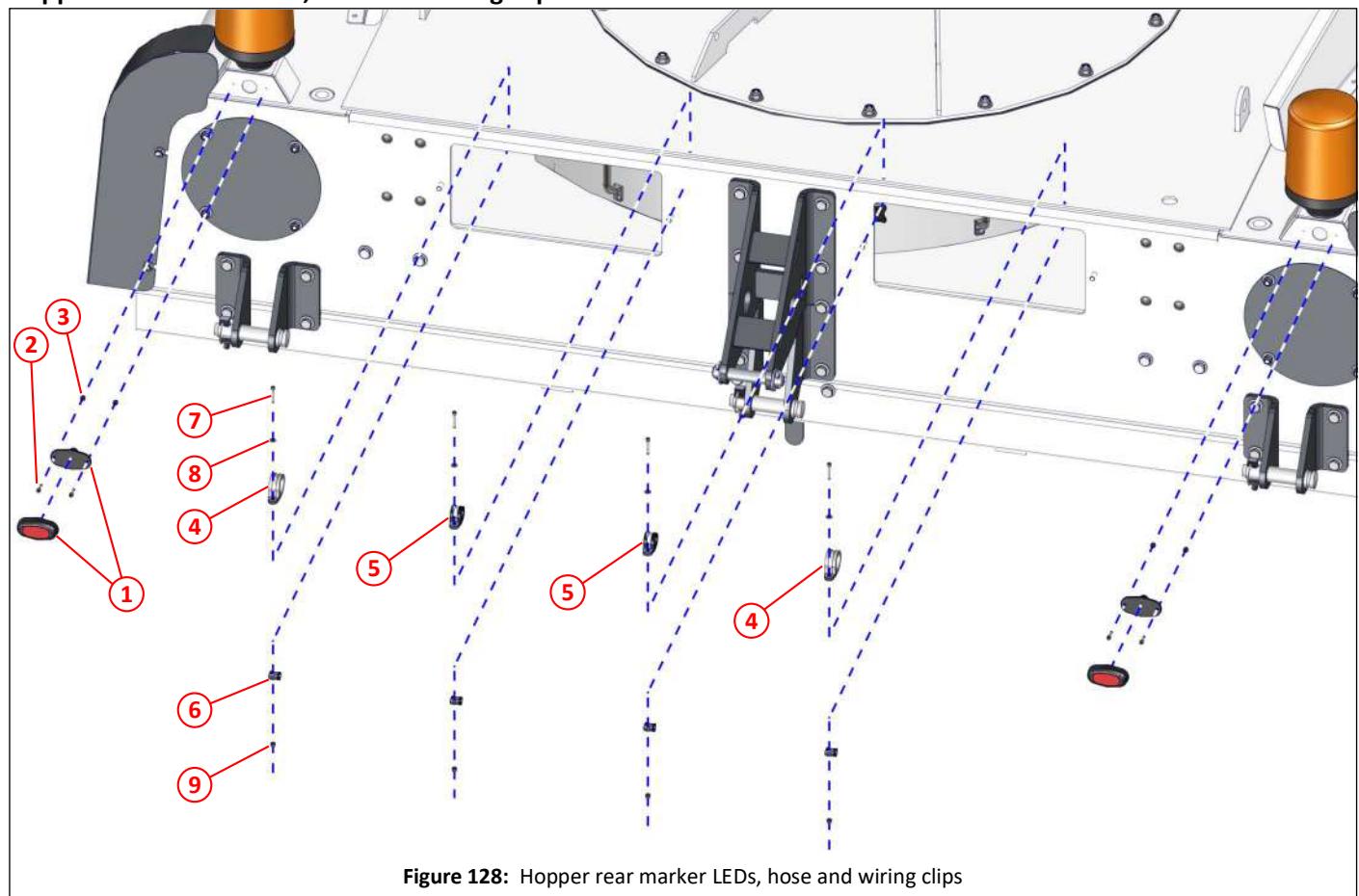


Figure 127: Blanking plugs on hopper with no rear wander hose

Item	Part No	Qty	Description
①	014563	8	Button, fir tree
②	000280	4	Set screw M10 x 25, stainless steel
③	000270	8	Plain washer M10, stainless steel
④	000269	4	Nyloc nut M10, stainless steel

Hopper rear marker LEDs, hose and wiring clips


Item	Part No	Qty	Description	
①	030773	2	Marker lamp, LED 12v/24v	
②	000142	4	Socket cap head screw M4 x 15, plated	
③	000134	4	Nyloc nut M4	
④	024705	2	P-Clip, ø35	
⑤	005059	2	P-Clip, ø25	
⑥	021914	4	P-Clip, ø12	
⑦	000191	4	Socket cap head screw M4 x 25, plated	
⑧	000410	4	Plain washer M5	
⑨	000134	4	Nyloc nut M4	

Hopper and body

Fan inspection cover, external

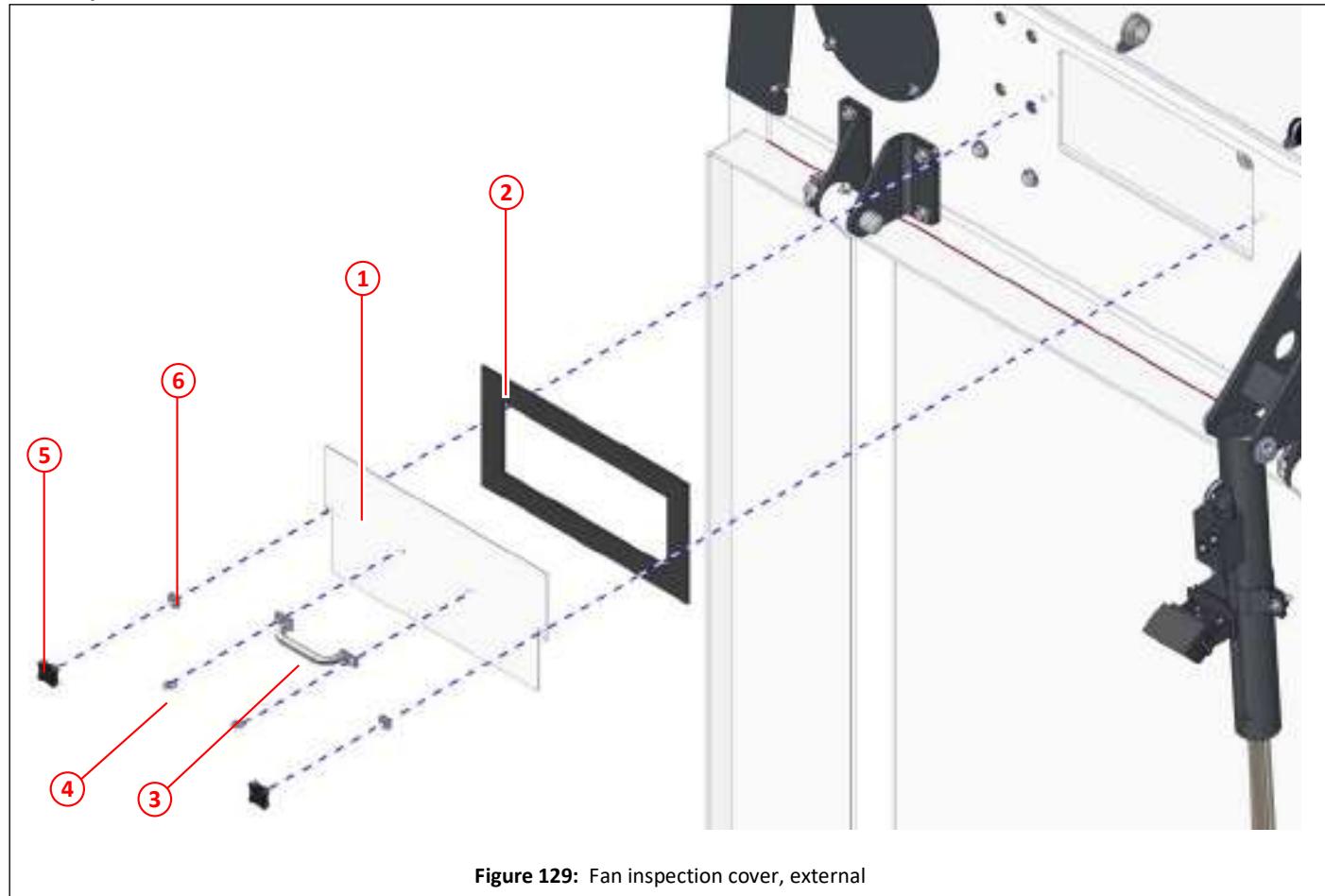
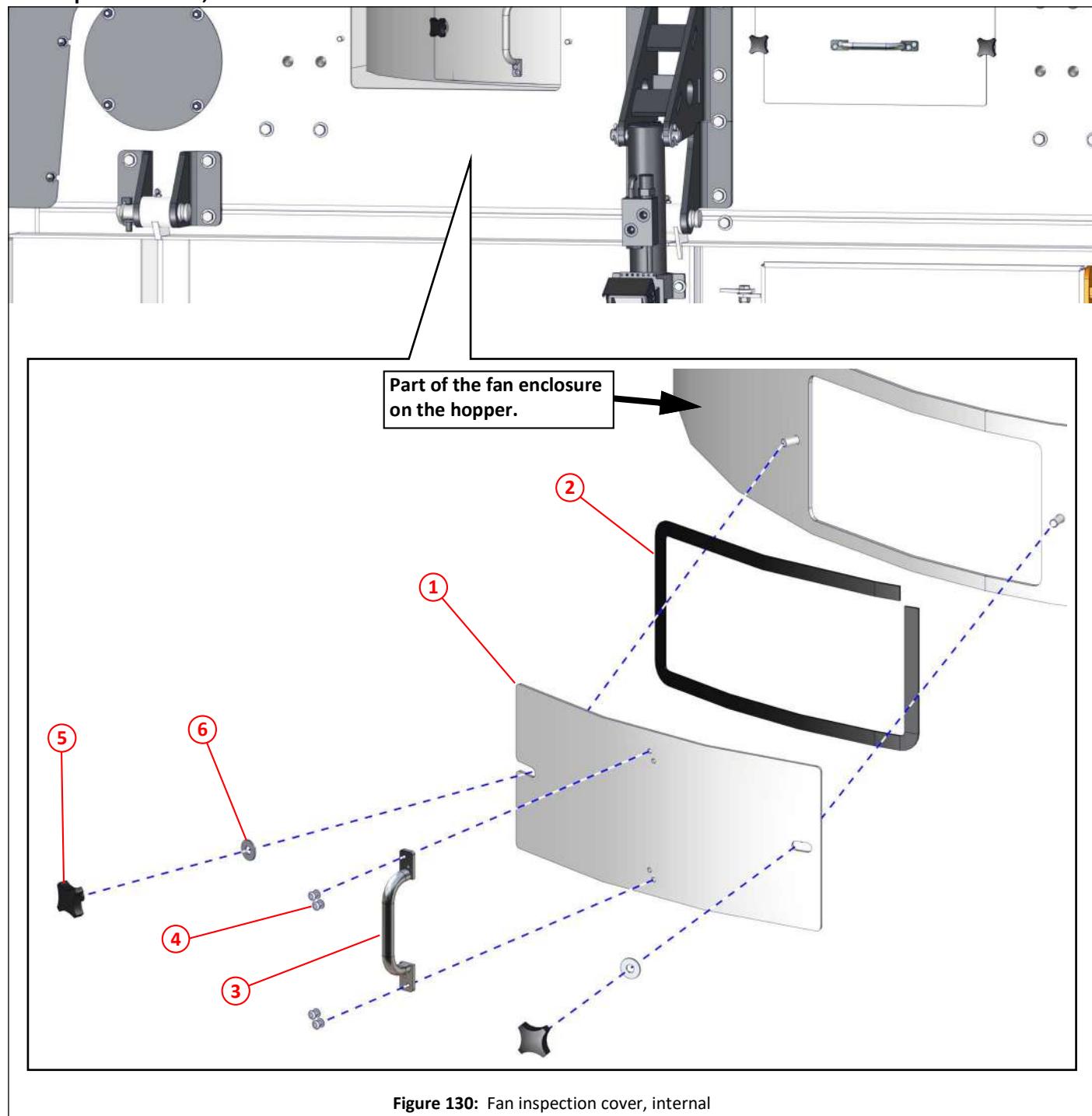


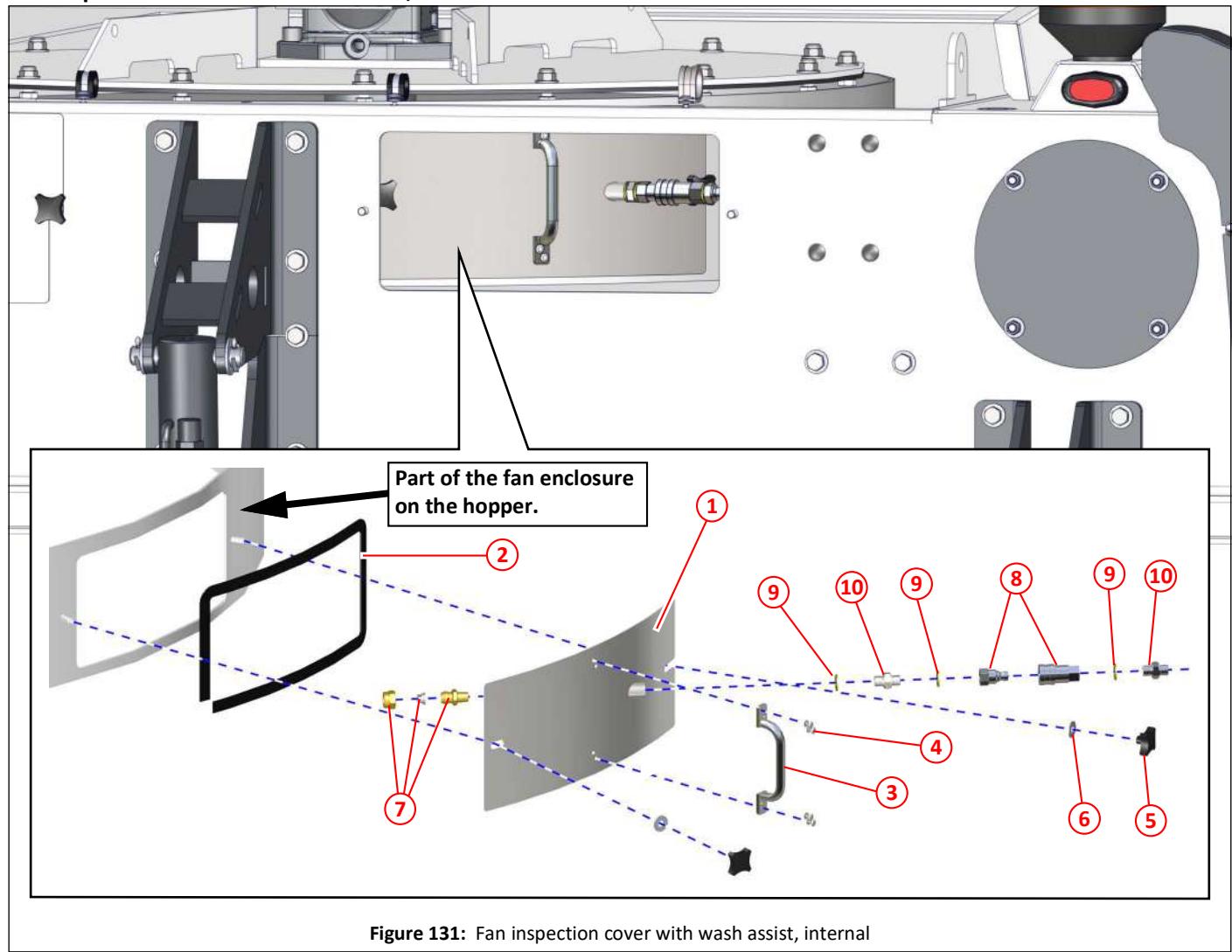
Figure 129: Fan inspection cover, external

Item	Part No	Qty	Description
①	030728	1	Cover, fan inspection, external
②	010546	As req	Seal strip 3 x 38
③	010502	1	Handle
④	011131	4	Rivet, blind $\phi 4.8 \times 18$
⑤	000248	2	Grip nut
⑥	000264	2	Plain washer M8, stainless steel

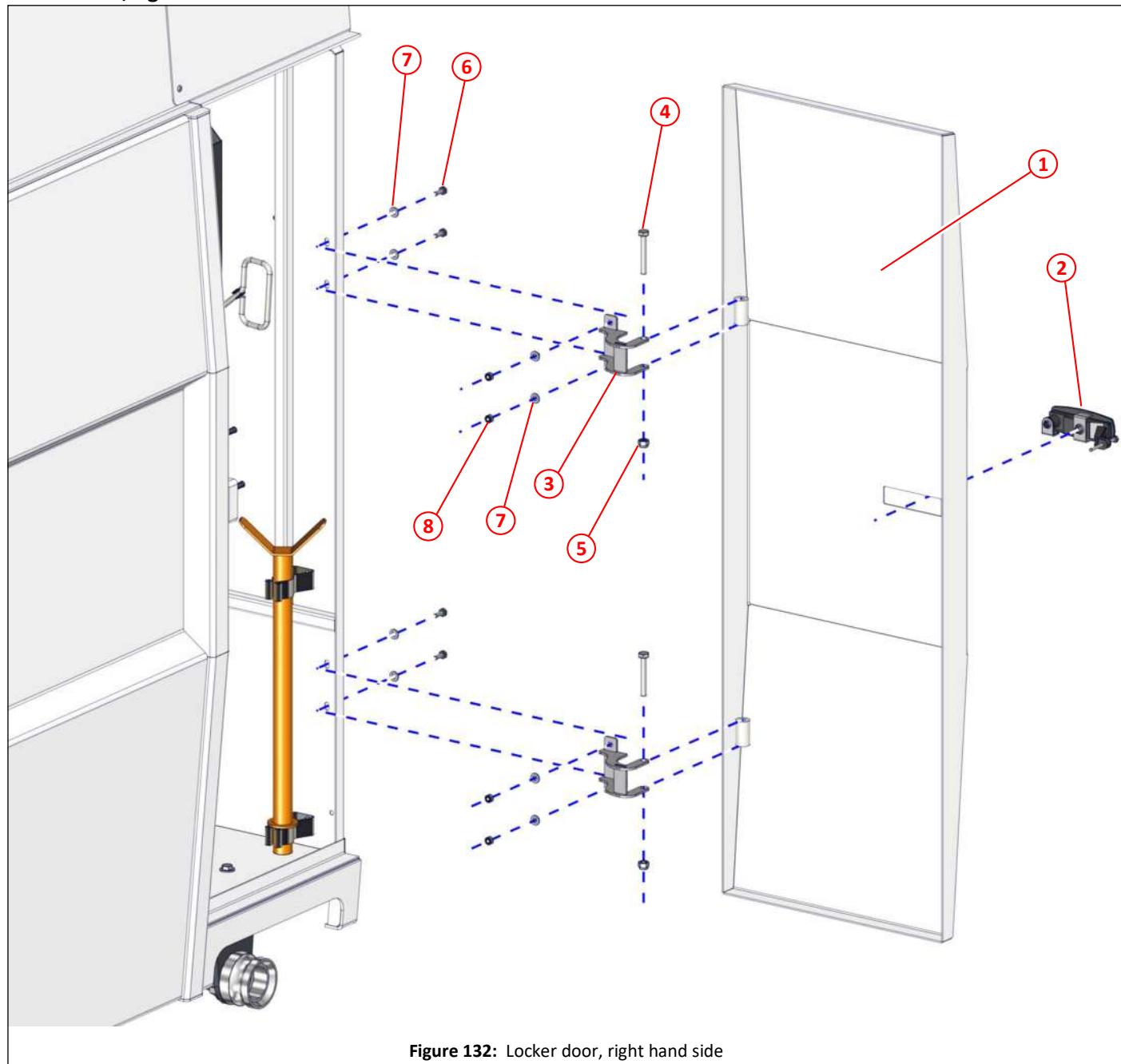
Fan inspection cover, internal

Figure 130: Fan inspection cover, internal

Item	Part No	Qty	Description	File
①	030730	1	Cover, fan inspection, internal	
②	005020	As req	Seal strip 15 x 25	
③	010502	1	Handle	
④	011131	4	Rivet, blind $\varnothing 4.8 \times 18$	
⑤	000248	2	Grip nut	
⑥	000264	2	Plain washer M8, stainless steel	

Fan inspection cover with wash assist, internal



Item	Part No	Qty	Description	
①	030731	1	Cover, fan cleaner, quick release	245
②	005020	As req	Seal strip 15 x 25	
③	010502	1	Handle	
④	011131	4	Rivet, blind ø4.8 x 18	
⑤	000248	2	Grip nut	
⑥	000264	2	Plain washer M8, stainless steel	
⑦	030507	1	Spray jet assembly LF6-80	245
⑧	012985	1	Coupling, quick release, high pressure $\frac{1}{4}$ " BSP	
⑨	011152	3	Dowty seal $\frac{1}{4}$ " BSP	
⑩	011158	2	Adapter $\frac{1}{4}$ " BSP	

Locker door, right hand side


Item	Part No	Qty	Description	
①	044691	1	Locker door, right hand side	
②	033115	1	Latch, locking	
③	034809	2	Hinge, locker door	
④	000261	2	Bolt M8 x 55, stainless steel	
⑤	000263	2	Nyloc nut M8, stainless steel	
⑥	000250	4	Set screw M6 x 16, stainless steel	
⑦	000254	8	Plain washer M6, stainless steel	
⑧	000253	4	Nyloc nut M6, stainless steel	

Hopper and body

Locker door, left hand side

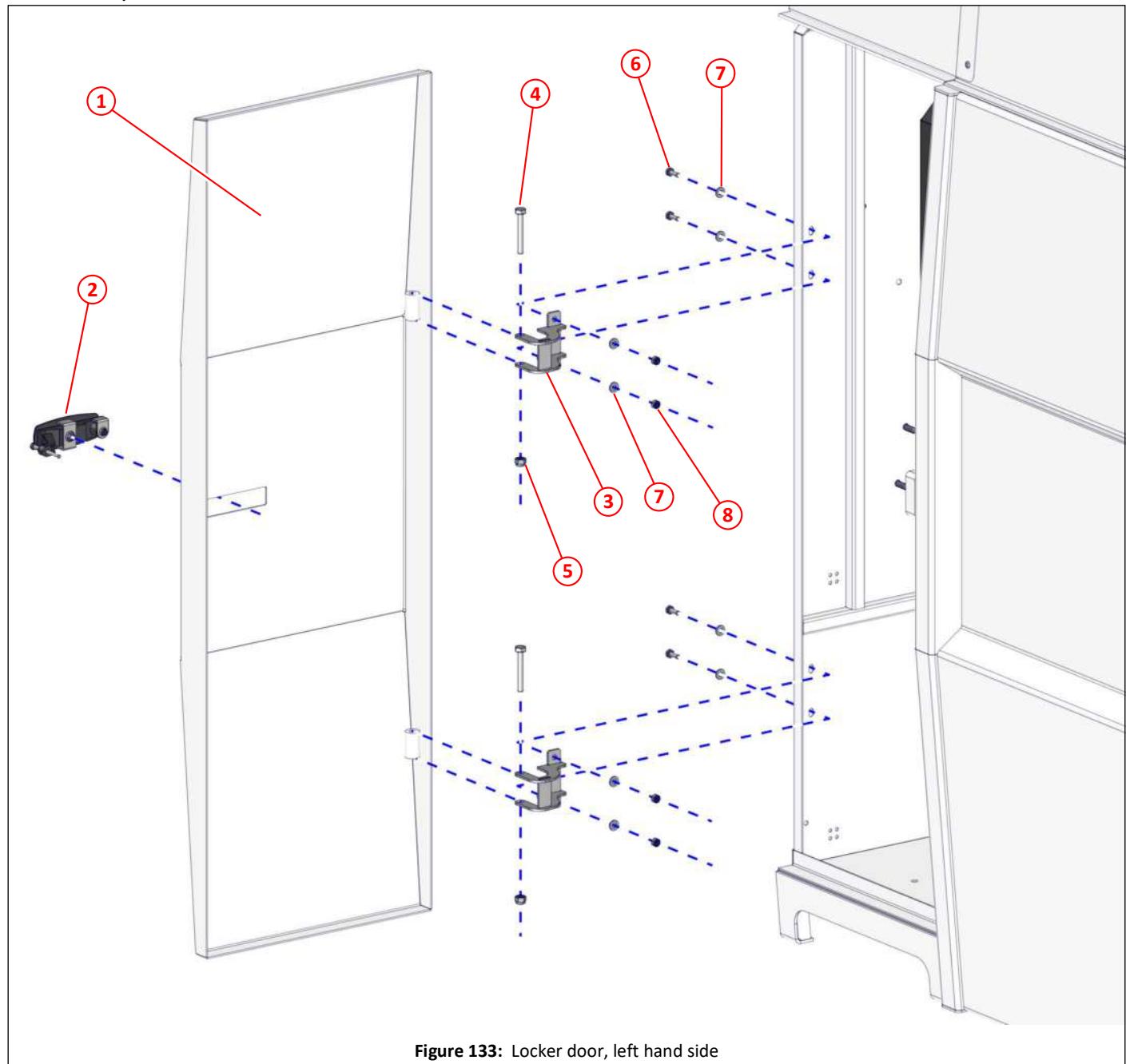
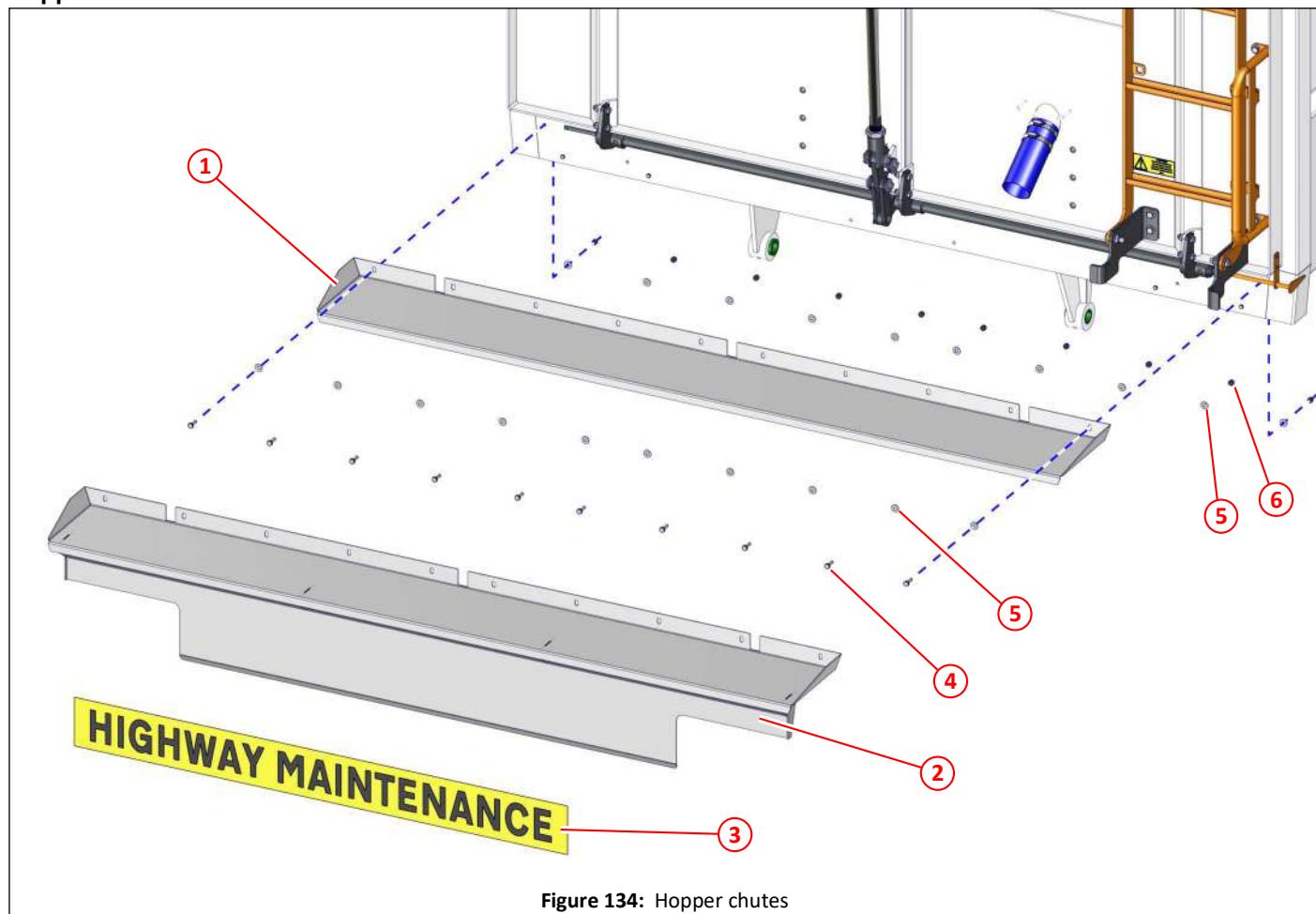


Figure 133: Locker door, left hand side

Item	Part No	Qty	Description
①	044690	1	Locker door, left hand side
②	033115	1	Latch, locking
③	034809	2	Hinge, locker door
④	000261	2	Bolt M8 x 55, stainless steel
⑤	000263	2	Nyloc nut M8, stainless steel
⑥	000250	4	Set screw M6 x 16, stainless steel
⑦	000254	8	Plain washer M6, stainless steel
⑧	000253	4	Nyloc nut M6, stainless steel

Hopper chutes

Figure 134: Hopper chutes

Item	Part No	Qty	Description
①	034337	1	Hopper chute
②	039431	1	Hopper chute, with conspicuity mounting
③	039370	1	Sign, 'HIGHWAY MAINTENANCE'
④	000257	10	Set screw M8 x 25, stainless steel
⑤	000264	20	Plain washer M8, stainless steel
⑥	000263	10	Nyloc nut M8, stainless steel

Pipework, hopper rear, left hand side

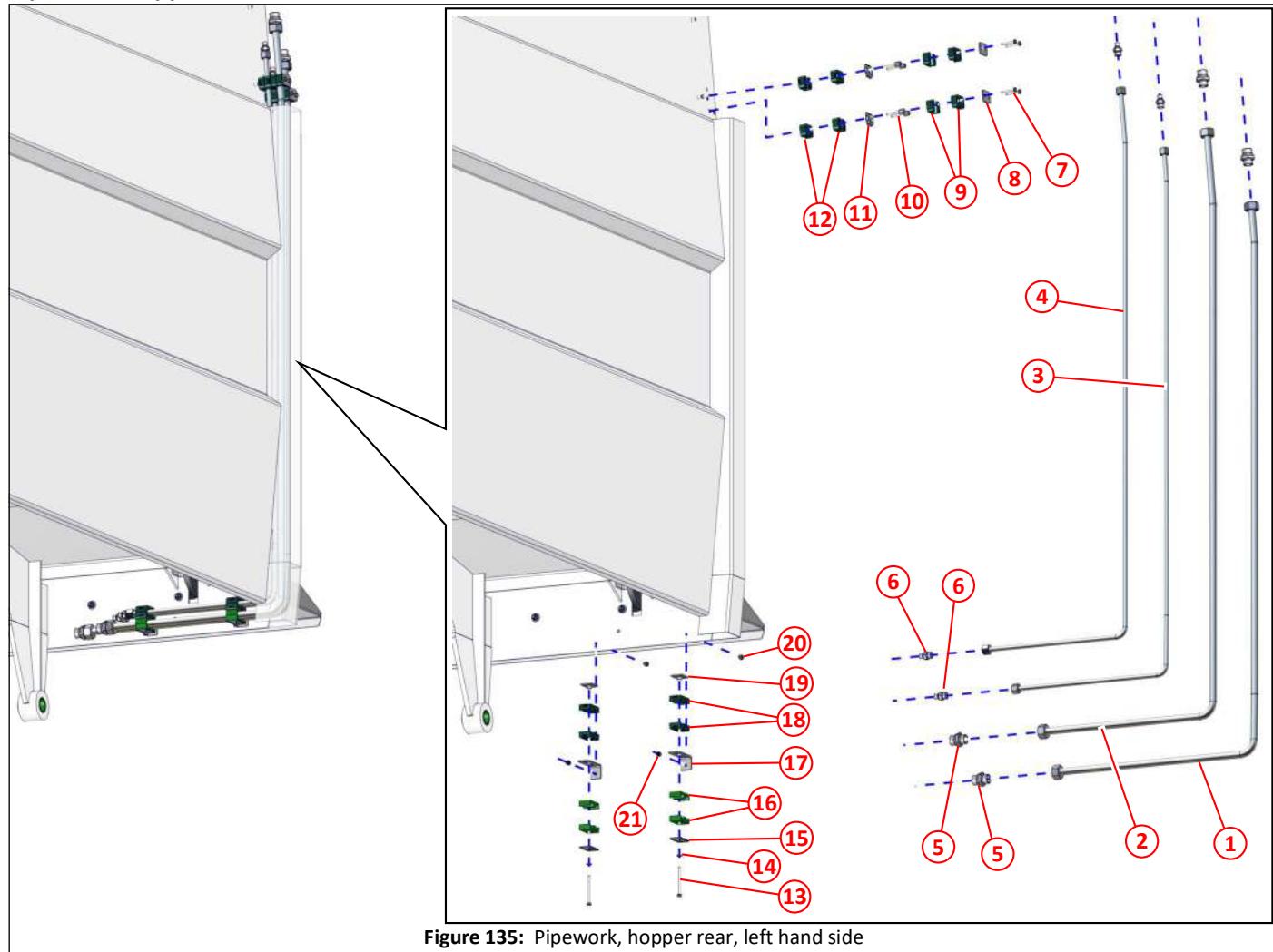
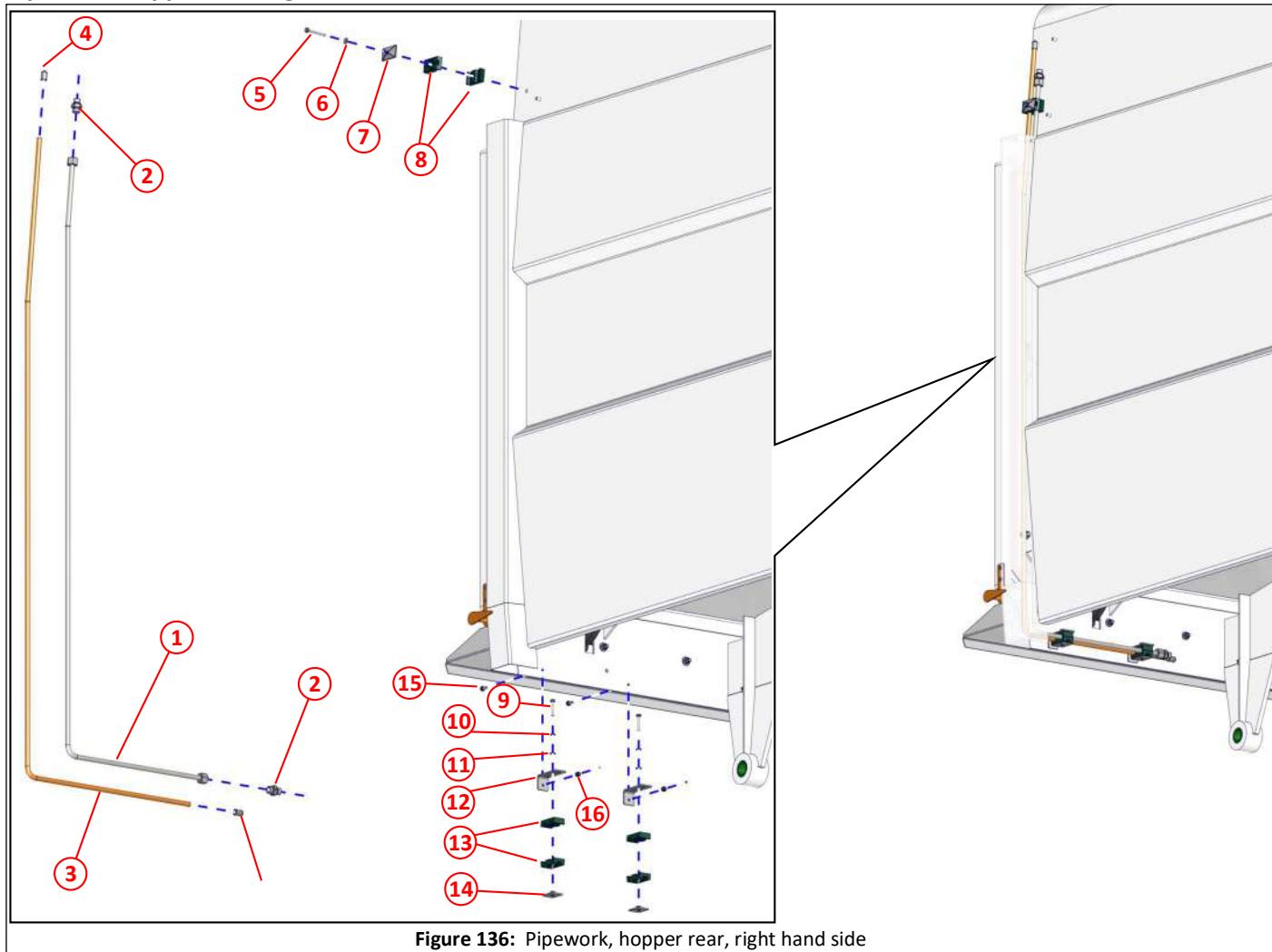


Figure 135: Pipework, hopper rear, left hand side

Item	Part No	Qty	Description
①	043603	1	Pipe, steel, suction fan return
②	043602	1	Pipe, steel, suction fan feed
③	043606	1	Pipe, steel, rear door close
④	043605	1	Pipe, steel, rear door open
⑤	002177	4	Adapter, compression, M/M, 18mm x $\frac{3}{4}$ " BSP
⑥	002086	4	Adapter 12 X $\frac{1}{4}$ " BSP
⑦	011068	4	Bolt M6 x 35
⑧	031317	2	Clamp plate, flat
⑨	042796	4	Clamp block, pipe, ø18 single
⑩	000470	4	Bolt, stacking 35mm (AF4)
⑪	000472	4	Plate, locking. SIG1
⑫	043691	4	Clamp block, pipe, ø12.7 single
⑬	011143	2	Set screw M6 x 70
⑭	011090	2	Plain washer M6
⑮	031319	2	Clamp plate, flat
⑯	027988	4	Clamp block, pipe, ø18 x ø18 double
⑰	026196	2	Bracket, anti-vibration
⑱	043590	4	Clamp block, pipe, ø12.7 x ø12.7 double
⑲	027993	2	Clamp plate, bottom
⑳	000250	2	Set screw M6 x 16, stainless steel
㉑	000253	2	Nyloc nut M6, stainless steel

Pipework, hopper rear, right hand side

Figure 136: Pipework, hopper rear, right hand side

Item	Part No	Qty	Description
①	043604	1	Pipe, steel, suction fan case
②	020903	2	Adapter $\varnothing 12 \times \frac{3}{8}$ " BSP
③	043607	1	Loom rail, hopper
④	043065	2	Cap, pipe, $\varnothing 12$ OD
⑤	011003	1	Set screw M6 x 50
⑥	011090	1	Plain washer M6
⑦	031319	1	Clamp plate, flat
⑧	043590	2	Clamp block, pipe, $\varnothing 12.7 \times \varnothing 12.7$ double
⑨	011068	2	Bolt M6 x 35
⑩	011091	2	Spring washer M6
⑪	011090	2	Plain washer M6
⑫	026196	2	Bracket, anti-vibration
⑬	043590	4	Clamp block, pipe, $\varnothing 12.7 \times \varnothing 12.7$ double
⑭	027993	2	Clamp plate, bottom
⑮	000250	2	Set screw M6 x 16, stainless steel
⑯	000253	2	Nyloc nut M6, stainless steel

Hopper and body arrangement, internal

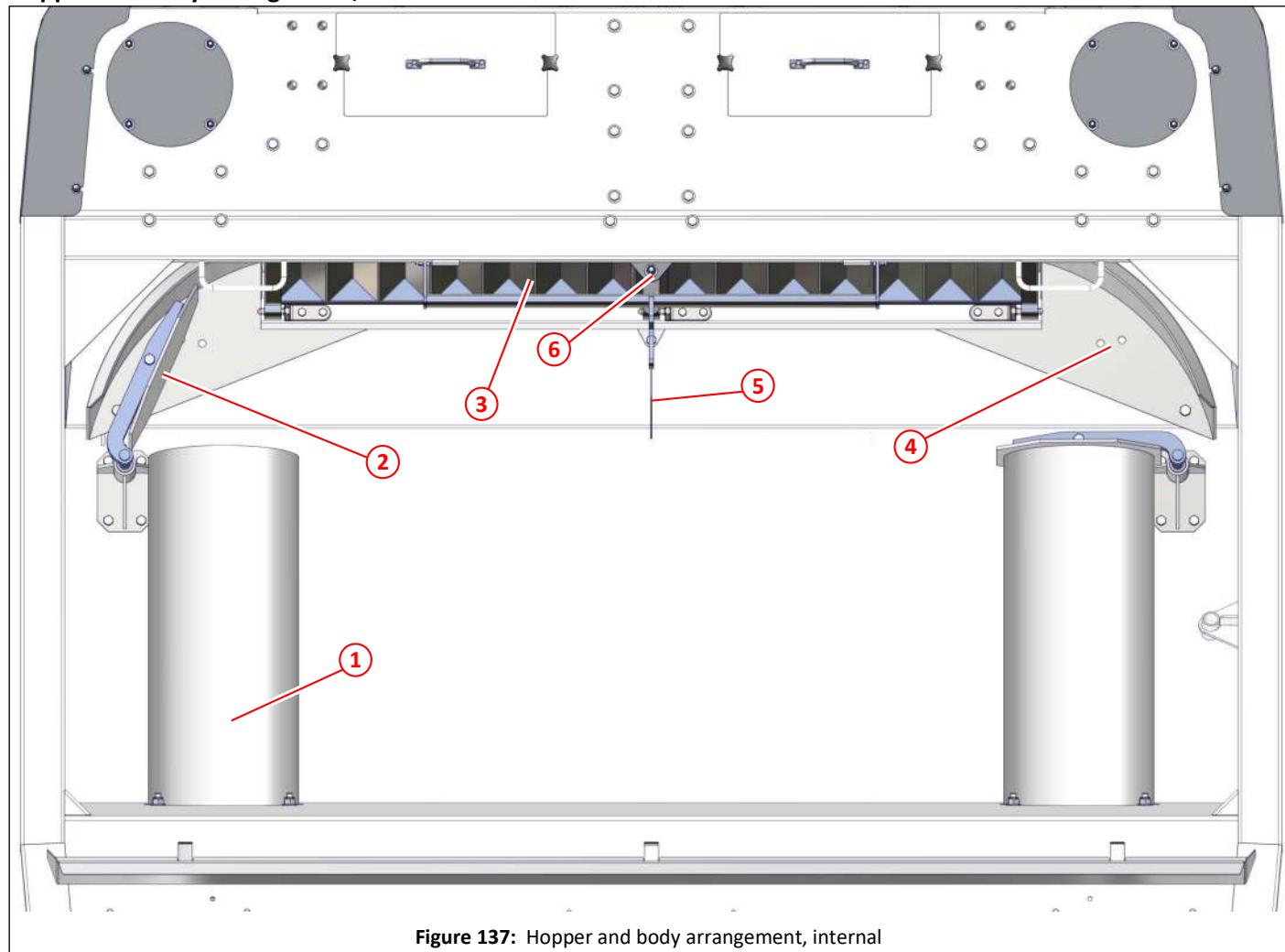
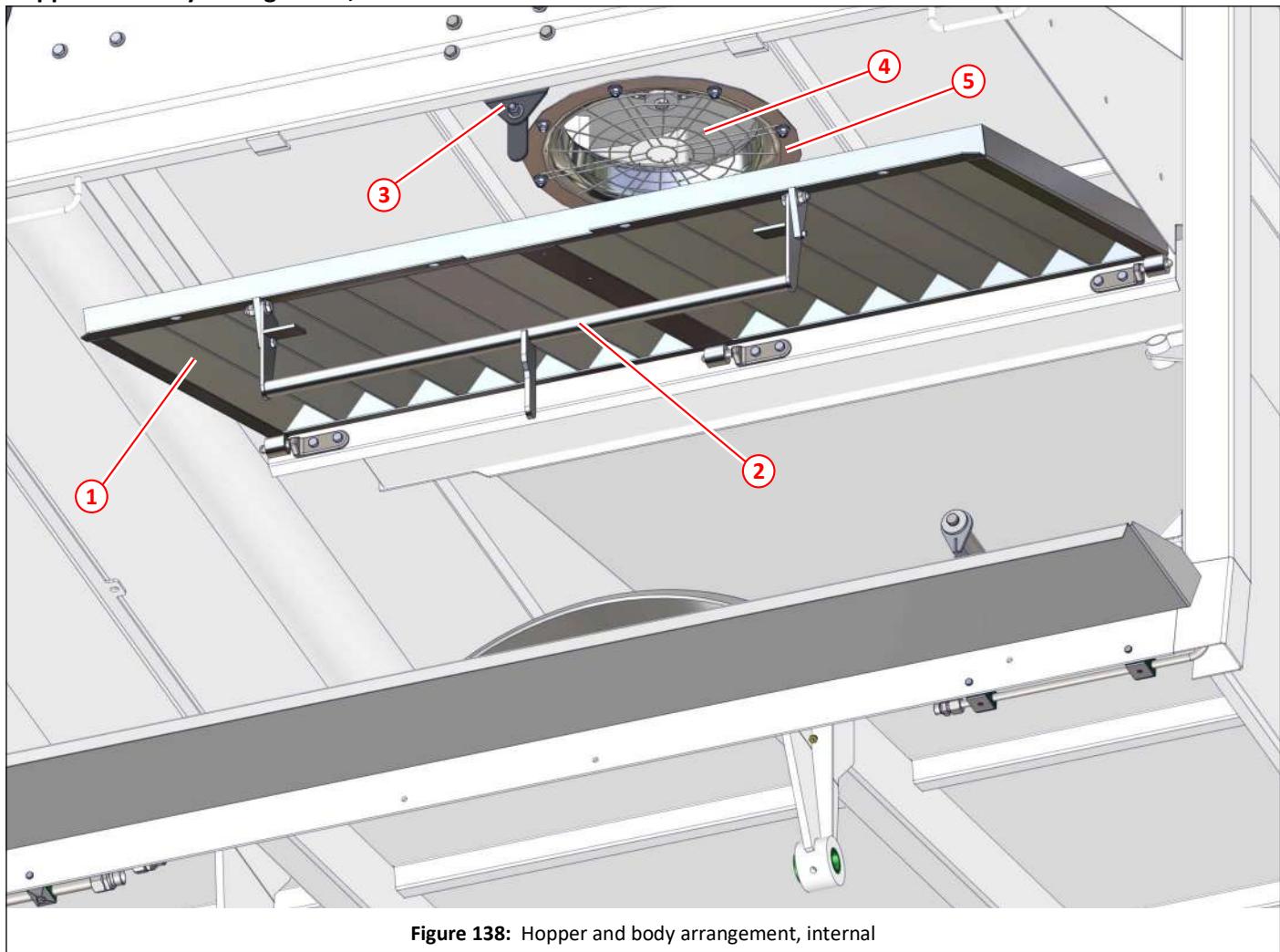


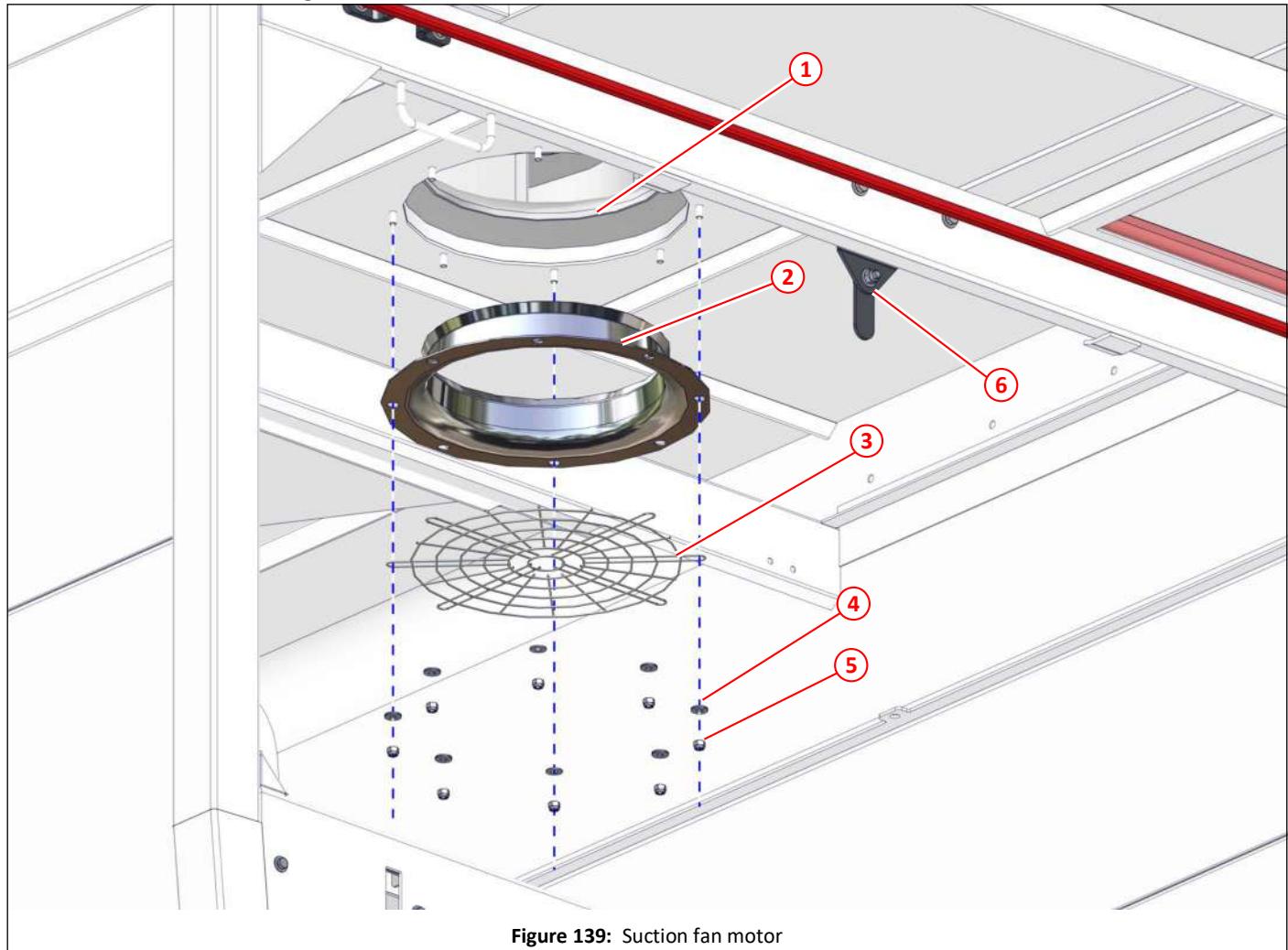
Figure 137: Hopper and body arrangement, internal

Item	Part No	Qty	Description	
①	044603	1	Tube, deflector	93,107
②			Auto blanking arrangement	96,113
③	031883	1	Screen, filter, suction fan, stainless steel	147,171,173
④	022644	2	Deflector	93,107
⑤	044618	1	Deflector flap	112
⑥			Safety latch, screen	171,172,173

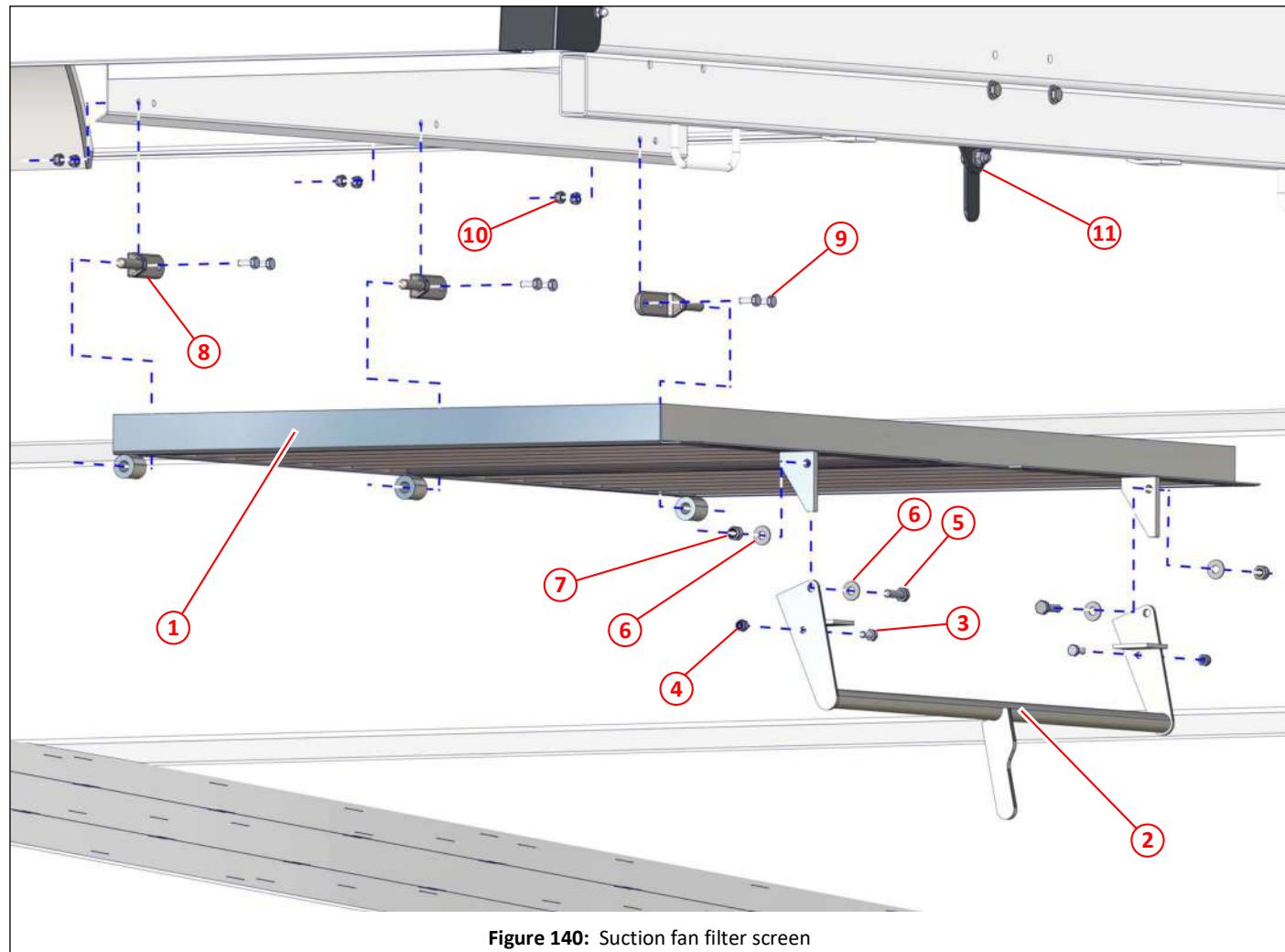
Hopper and body arrangement, internal

Figure 138: Hopper and body arrangement, internal

Item	Part No	Qty	Description	
①	031883	1	Screen, filter, suction fan, stainless steel	147,170,173
②	039312	1	Handle, screen latch, long handle	147,173
③			Safety latch, screen	170,172,173,174
④	039674		Guard, fan	146,172
⑤	032357		Cone, suction fan	146,172

Suction fan inlet cone and guard



Item	Part No	Qty	Description	
①	030651	1	Impeller, stainless steel	144
②	032357	1	Inlet cone, stainless steel	146,171
③	039674	1	Guard, fan	146,171
④	000264	8	Plain washer, M8, stainless steel	
⑤	000263	8	Nyloc nut M8, stainless steel	
⑥			Safety latch, screen	174

Suction fan filter screen

Figure 140: Suction fan filter screen

Item	Part No	Qty	Description	
①	031883	1	Screen, filter, suction fan, stainless steel	147,170,171
②	039312	1	Latch, long handle, screen	171
③	000256	2	Set screw M8 x 20, stainless steel	
④	000263	2	Nyloc nut, M8, stainless steel	
⑤	000462	2	Set screw M10 x 35, stainless steel	
⑥	011094	4	Plain washer M10	
⑦	011075	2	Nyloc nut M10	
⑧	025245	3	Gudgeon	
⑨	000256	6	Set screw M8 x 20, stainless steel	
⑩	000263	6	Nyloc nut, M8, stainless steel	
⑪			Safety latch, screen	174

Safety latch, suction fan filter screen

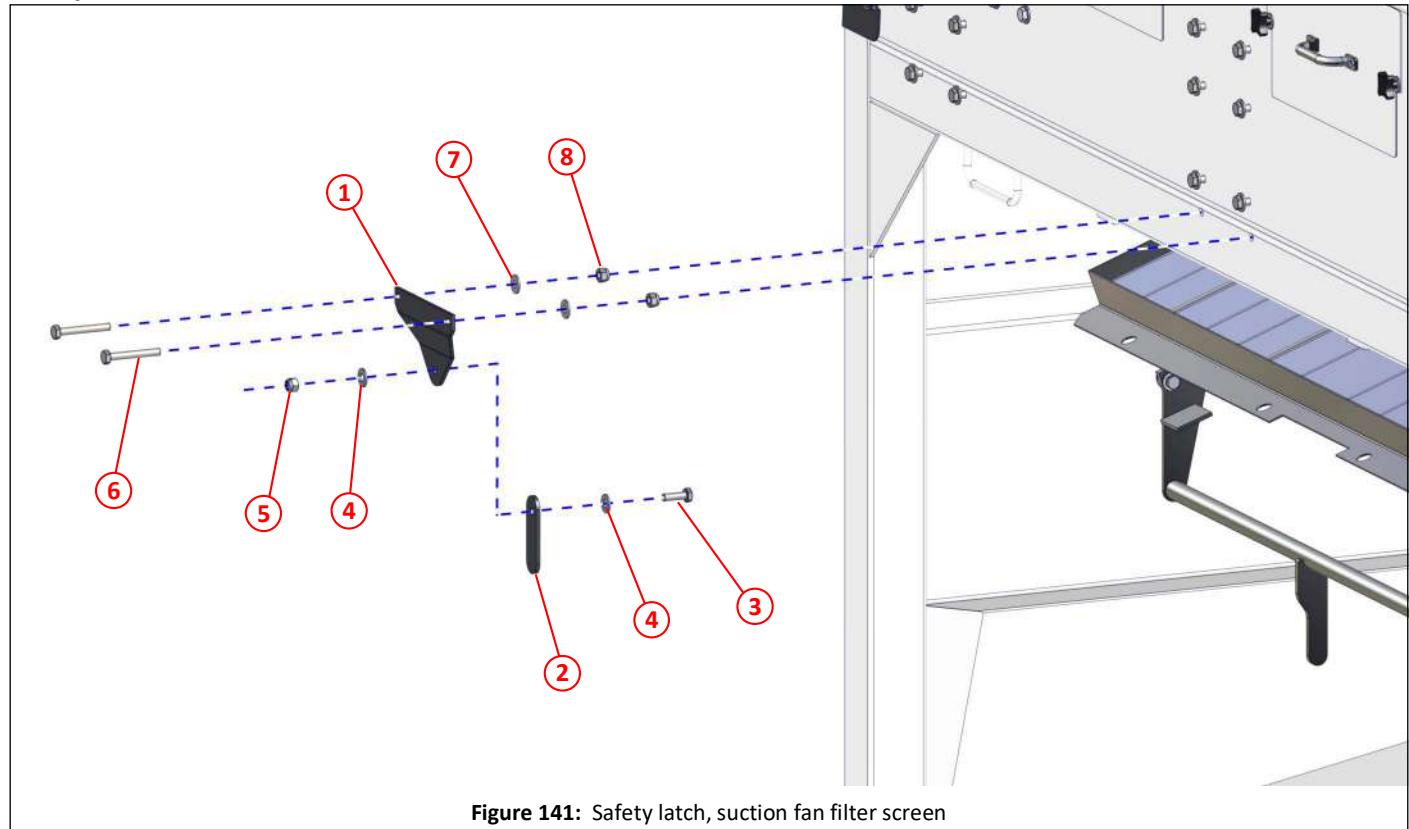
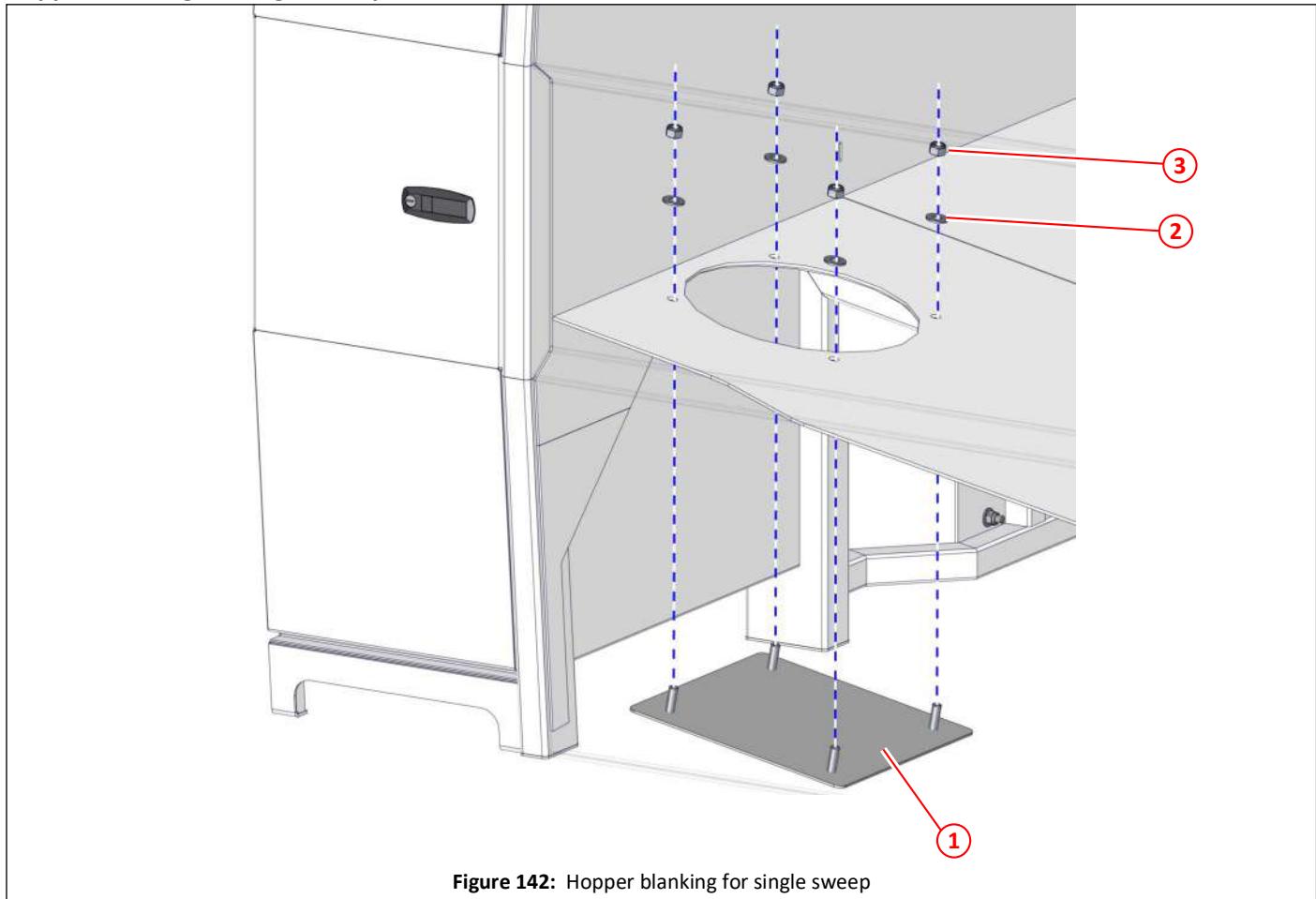


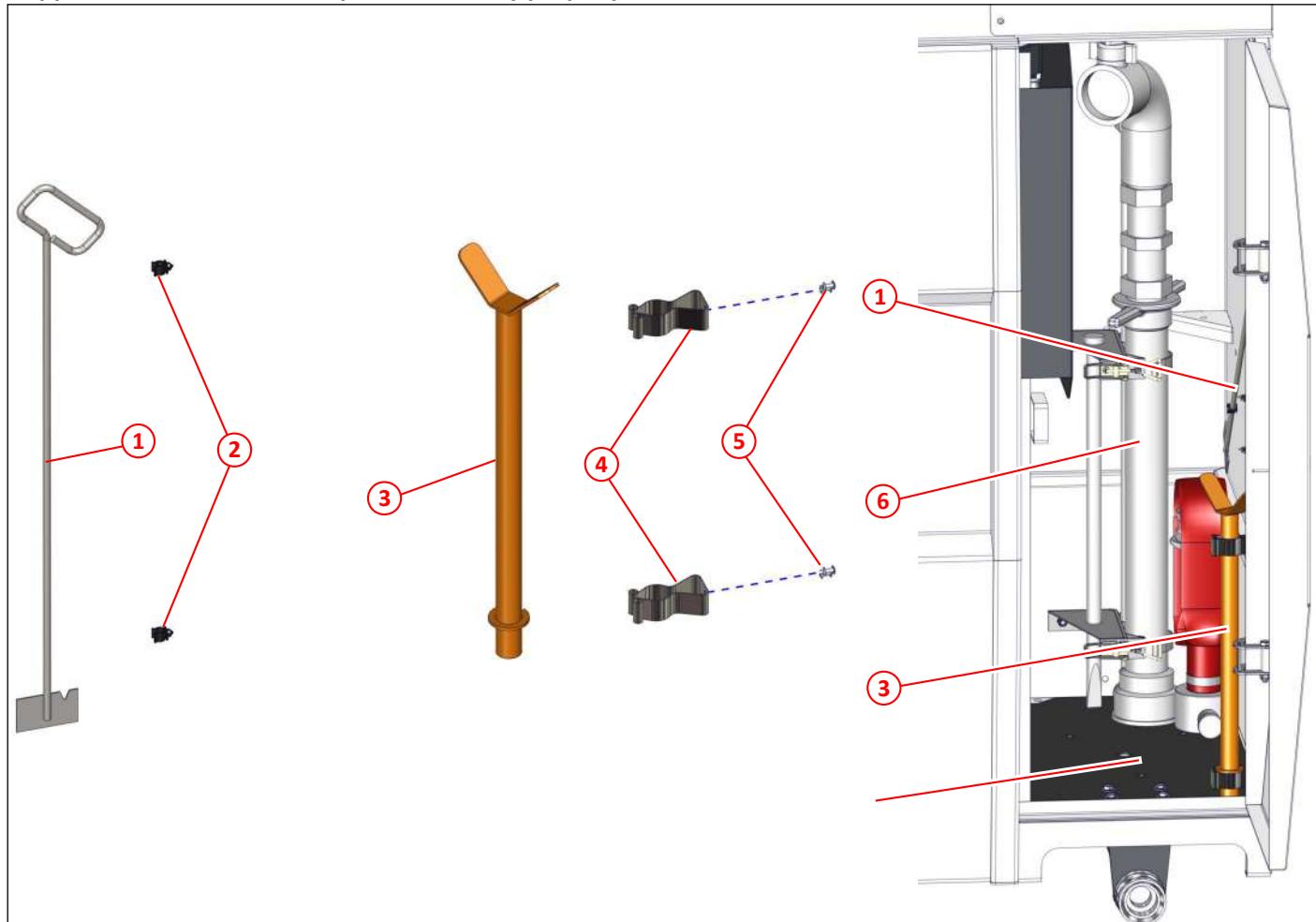
Figure 141: Safety latch, suction fan filter screen

Item	Part No	Qty	Description	
①	028052	1	Safety bracket	
②	028053	1	Safety link	
③	000461	1	Set screw M10 x 30, stainless steel	
④	000270	2	Plain washer M10, stainless steel	
⑤	000269	1	Nyloc nut M10, stainless steel	
⑥	011043	2	Bolt M10 x 70	
⑦	011094	2	Plain washer M10	
⑧	011075	2	Nyloc nut M10	

Hopper blanking for single sweep

Figure 142: Hopper blanking for single sweep

Item	Part No	Qty	Description	
①	038725	1	Plate, deflector tube blanking	
②	000277	4	Plain washer M12, stainless steel	
③	000275	4	Nyloc nut M12, stainless steel	

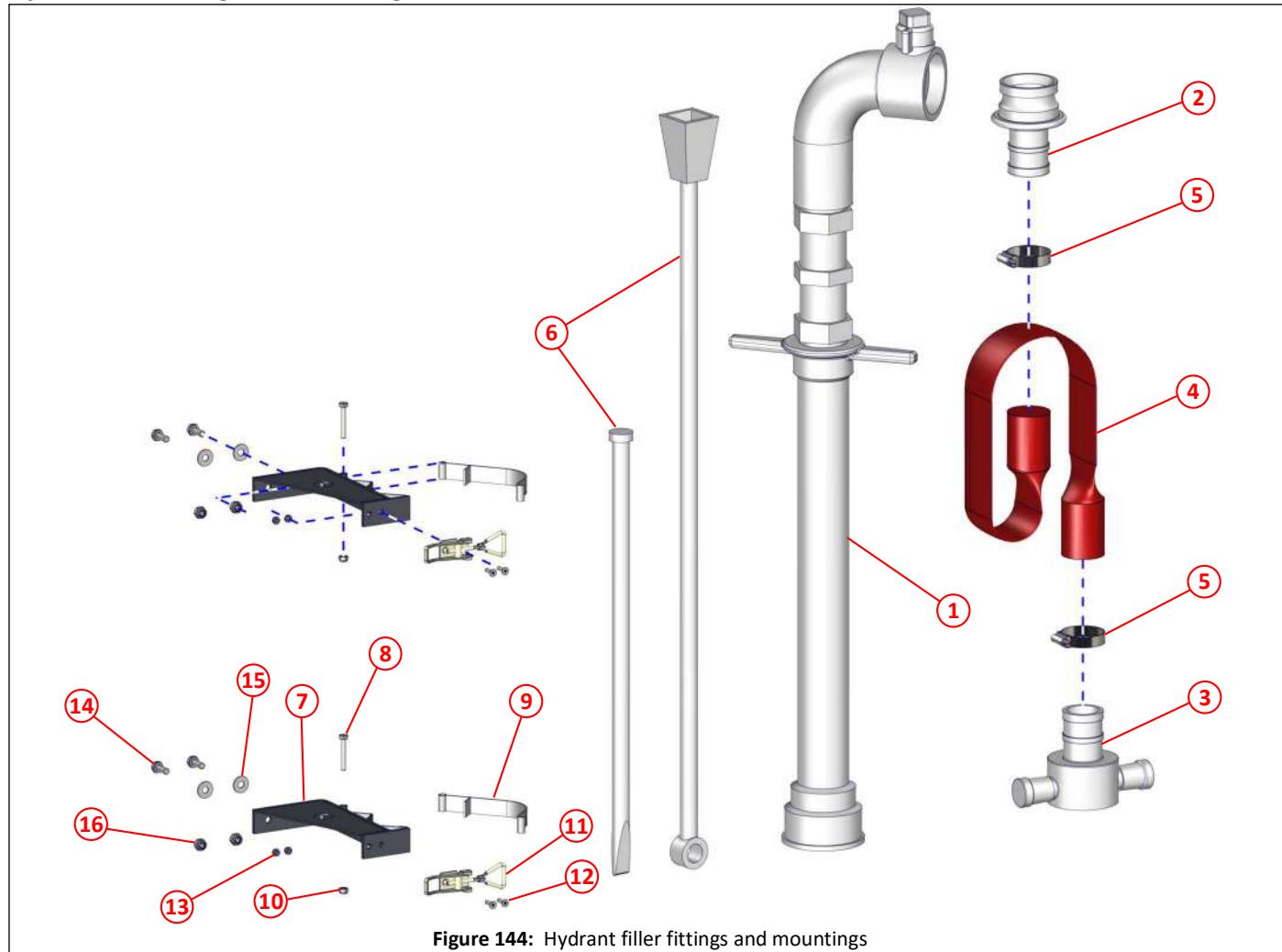
Hopper locker items, fan scraper, door safety prop, hydrant filler



i These items are usually stored in the drivers side locker unless an overhead boom is fitted, then they will be in the opposite locker.

Figure 143: Hopper locker items, fan scraper, door safety prop, hydrant filler

Item	Part No	Qty	Description	
①	013514	1	Fan scraper	
②	013631	2	Clip, fir tree	
③	039683	1	Safety prop, hopper rear door	
④	014806	2	Clip, broom	
⑤	011131	4	Rivet, blind ø4.8 x 18	
⑥	044150	2	Rubber mat (one for each locker)	
⑦			Hydrant filler	177

Hydrant filler fittings and mountings

Figure 144: Hydrant filler fittings and mountings

Item	Part No	Qty	Description
①	014544	1	Hydrant standpipe
②	014546	1	Hydrant adapter, male, $\varnothing 2"$ x $\varnothing 2.5"$
③	013171	1	Hydrant adapter hose tail
④	014547	4m	Hydrant lay flat hose
⑤	012927	2	Hose clamp, worm drive, No. 2 ($\varnothing 40mm$ - $\varnothing 55mm$)
⑥	014545	1	Hydrant key and bar
⑦	020484*	1	Bracket, standpipe mounting
⑧	000021*	1	Set screw M6 x 40
⑨	020483*	1	Strap, standpipe mounting
⑩	011071*	1	Nyloc nut M6
⑪	010509*	1	OJOP fastener, with hinged toggle
⑫	000389*	2	Countersunk, Pozidrive head, screw M5 x 16, zinc and clear plated
⑬	000155*	2	Nyloc nut M5
⑭	011010*	2	Set screw M8 x 20
⑮	011092*	2	Plain washer M8
⑯	011073*	2	Nyloc nut M8

*. Items are for 1 complete mounting bracket. Two brackets are required.

Rear door arrangement, overview

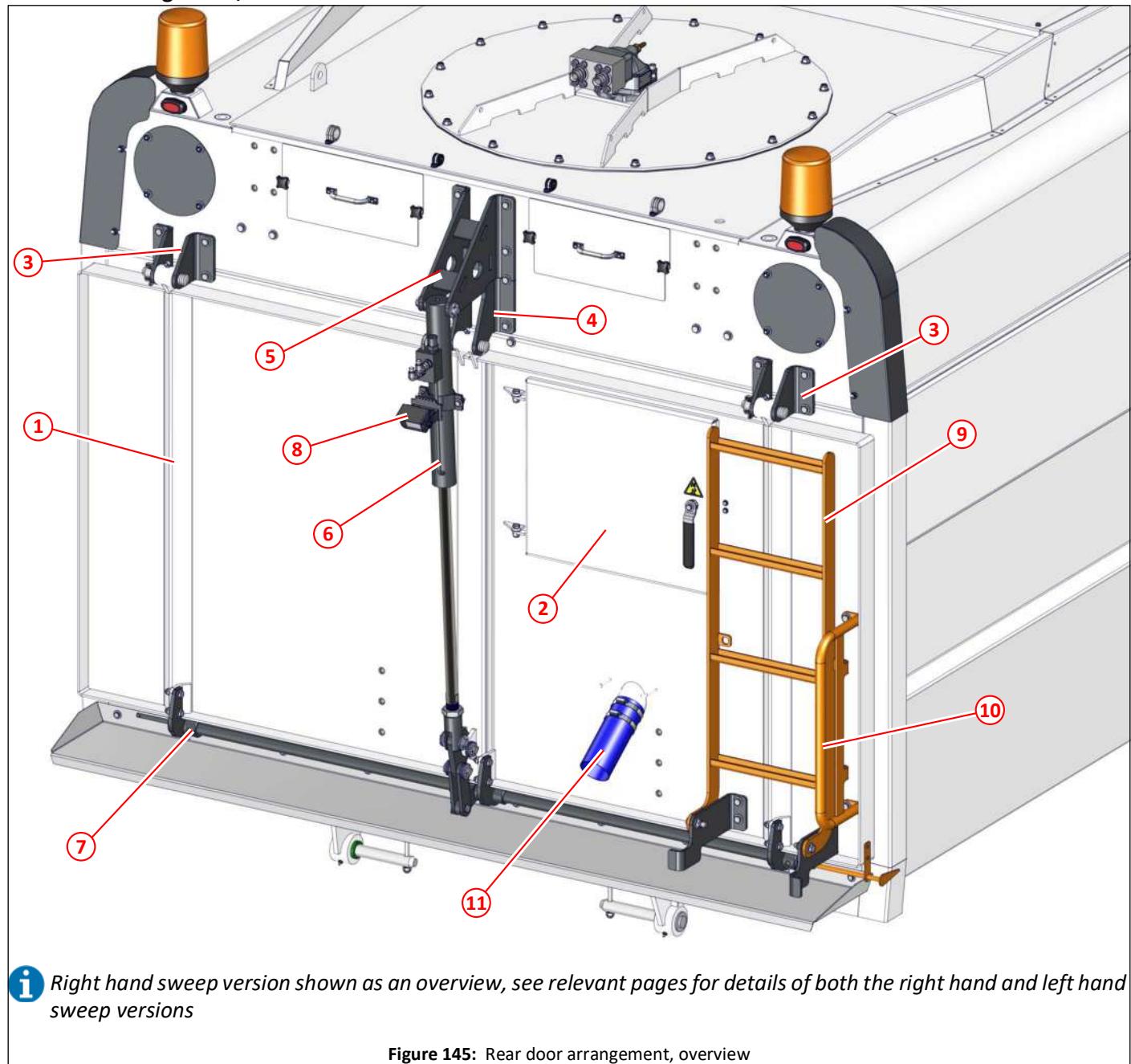
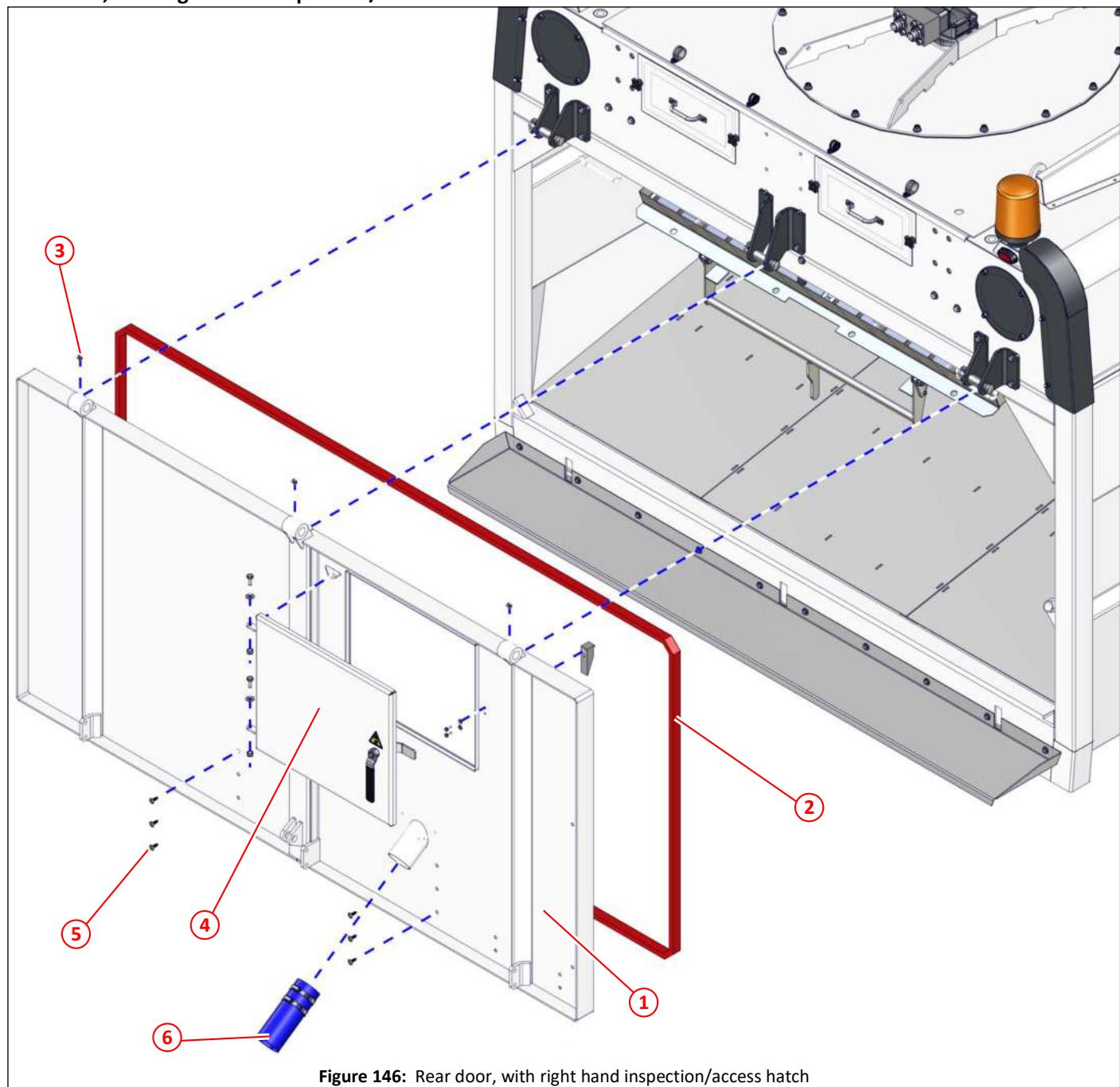


Figure 145: Rear door arrangement, overview

Item	Part No	Qty	Description	
①		1	Rear door, with inspection/access hatch	179,180
②	036363	1	Hatch, inspection access	182,183
③		2	Hinge, door, outer	181
④		1	Hinge, door, inner	181
⑤		1	Hinge, ram door open/close/locking	187,188
⑥		1	Ram, door open/close/locking	187,189
⑦		1	Locking bar	187,190
⑧			Rear camera	189,193,329
⑨		1	Ladder, access	184,185
⑩		1	Grab rail	184,185
⑪			Hose, hopper drain	186

Rear door, with right hand inspection/access hatch

Figure 146: Rear door, with right hand inspection/access hatch

Item	Part No	Qty	Description	
①	039263	1	Door, rear, with right hand inspection/access hatch	
②	030806	1	Seal, rear door	
③	010902	3	Grease nipple $\frac{1}{8}$ " BSP, 90°	
④	036363	1	Hatch, inspection access	182,183
⑤	014563	6	Button, fir tree, used if no rear wander boom	
⑥			Hose, hopper drain	186

Rear door, with left hand inspection/access hatch

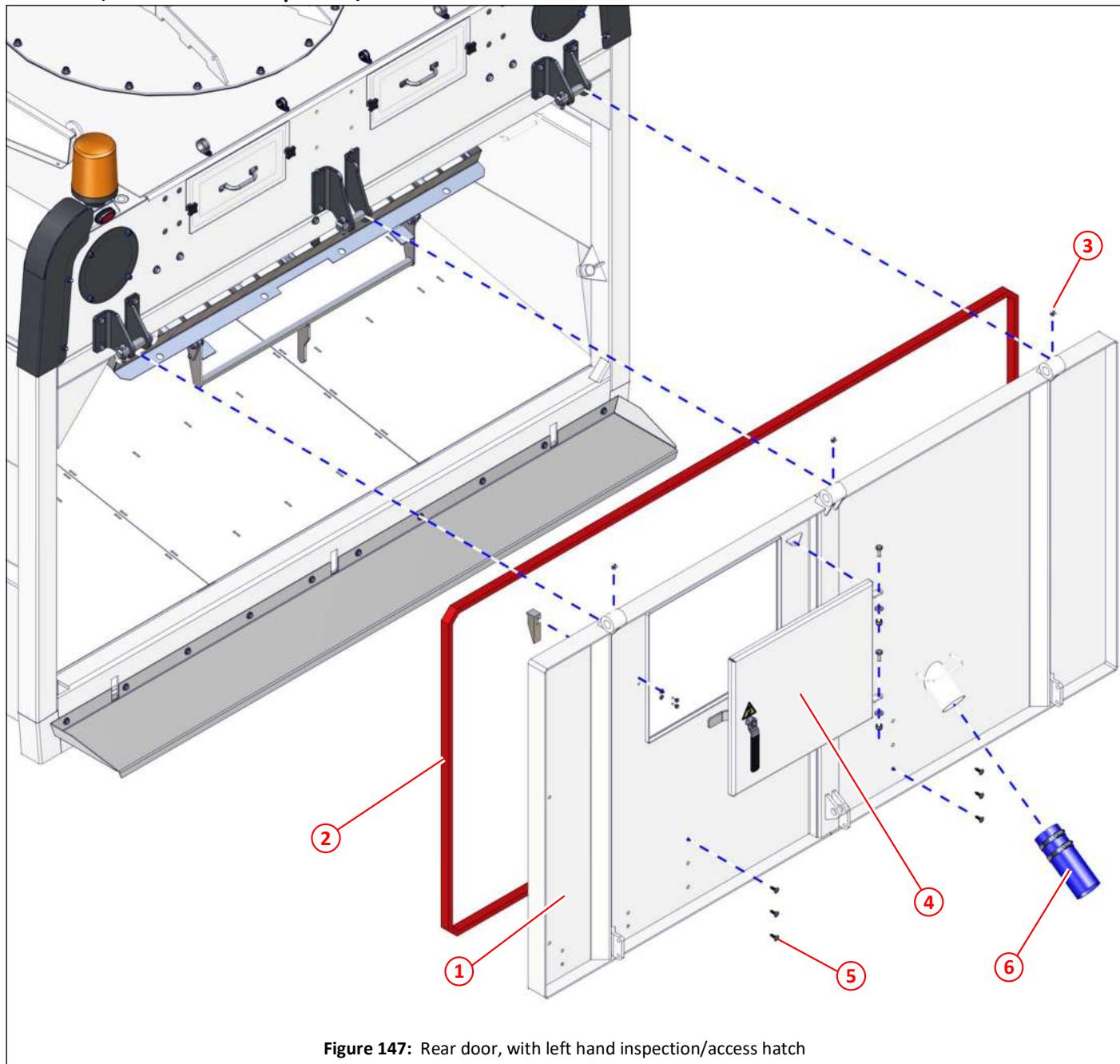
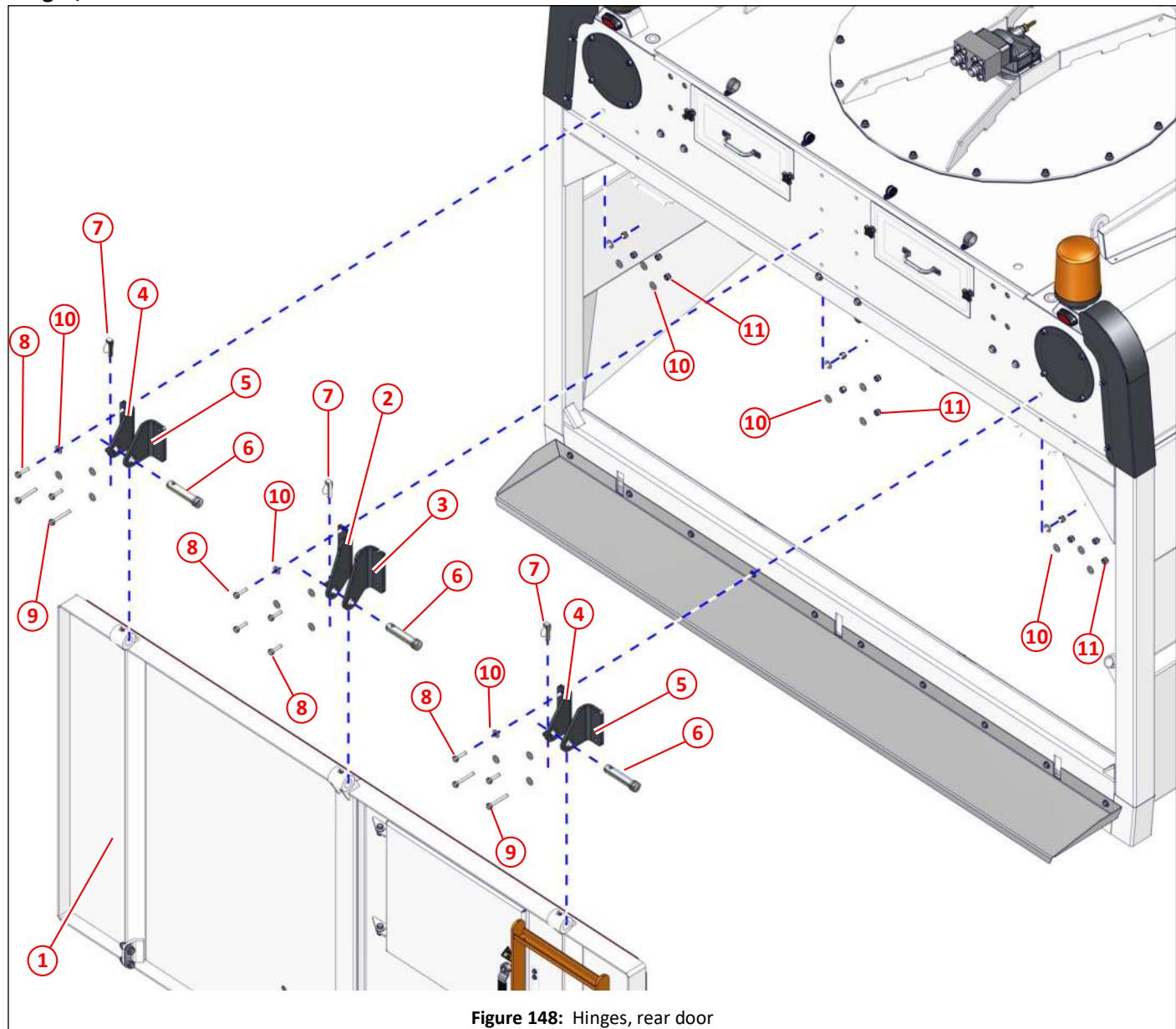


Figure 147: Rear door, with left hand inspection/access hatch

Item	Part No	Qty	Description	
①	039311	1	Door, rear, with left hand inspection/access hatch	
②	030806	1	Seal, rear door	
③	010902	3	Grease nipple $\frac{1}{8}$ " BSP, 90°	
④	036363	1	Hatch, inspection access	182,183
⑤	014563	6	Button, fir tree, used if no rear wander boom	
⑥			Hose, hopper drain	186

Hinges, rear door

Figure 148: Hinges, rear door

Item	Part No	Qty	Description	
①		1	Rear door, with inspection/access hatch	179,180
②	035709	1	Hinge, rear door, centre left hand	
③	035710	1	Hinge, rear door, centre right hand	
④	034310	2	Hinge, rear door, outer left hand	
⑤	034311	2	Hinge, rear door, outer right hand	
⑥	013051	3	Pin, hinge	
⑦	013053	3	Lynch pin	
⑧	011033	8	Set screw M10 x 35	
⑨	011037	4	Bolt M10 x 65	
⑩	011094	24	Plain washer M10	
⑪	011075	12	Nyloc nut M10	

Hopper and body

Inspection/access hatch, right hand

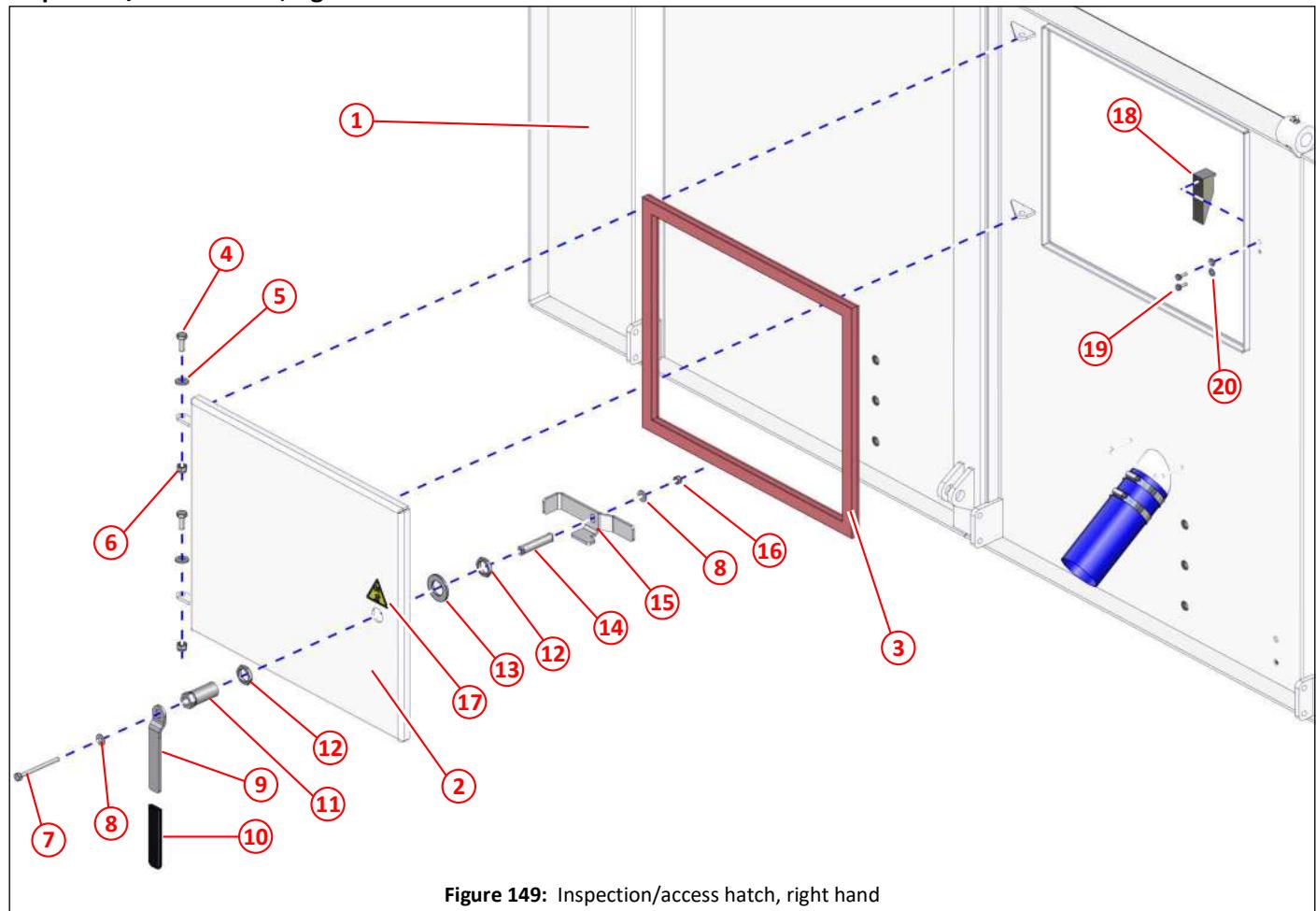
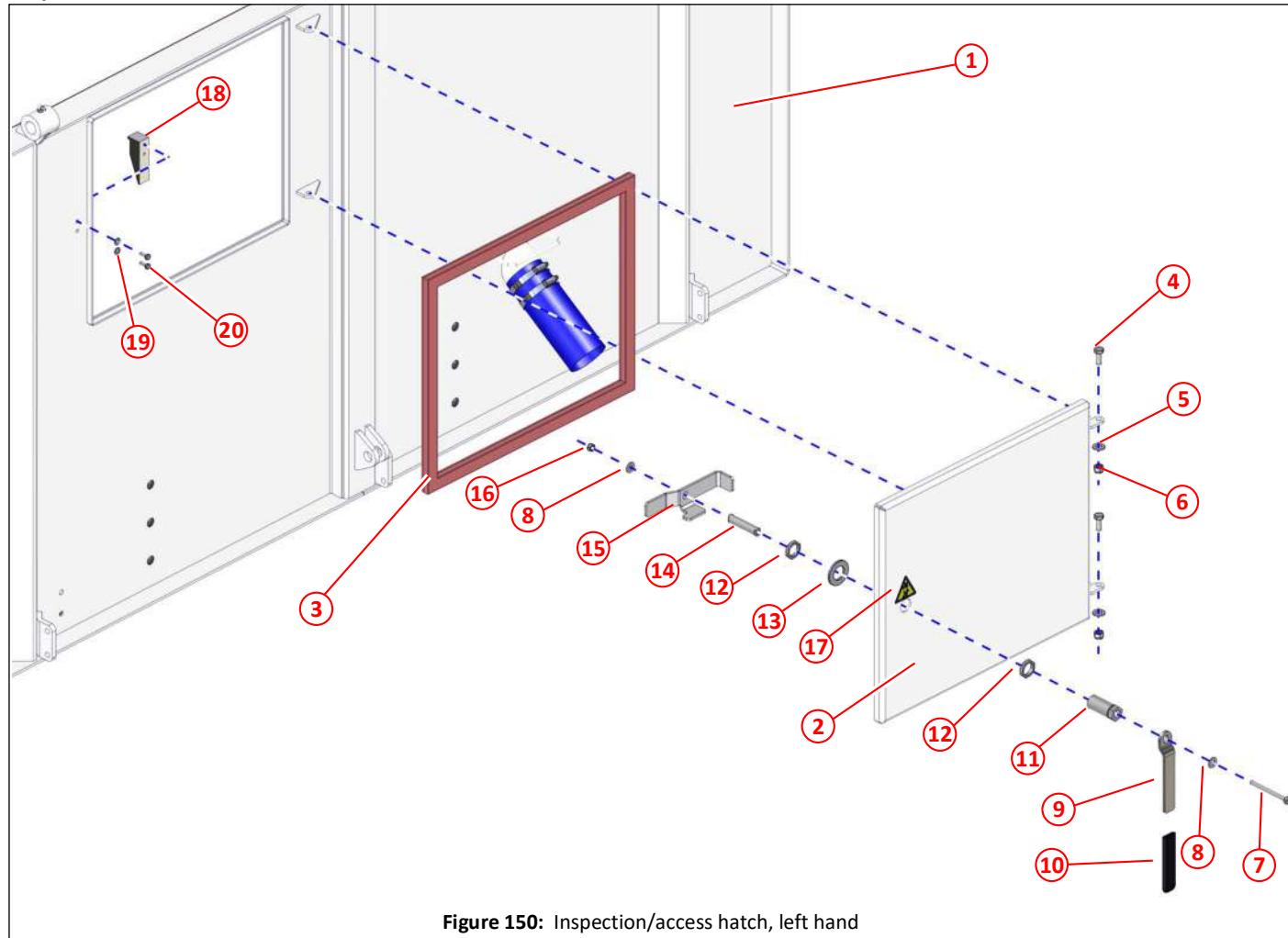


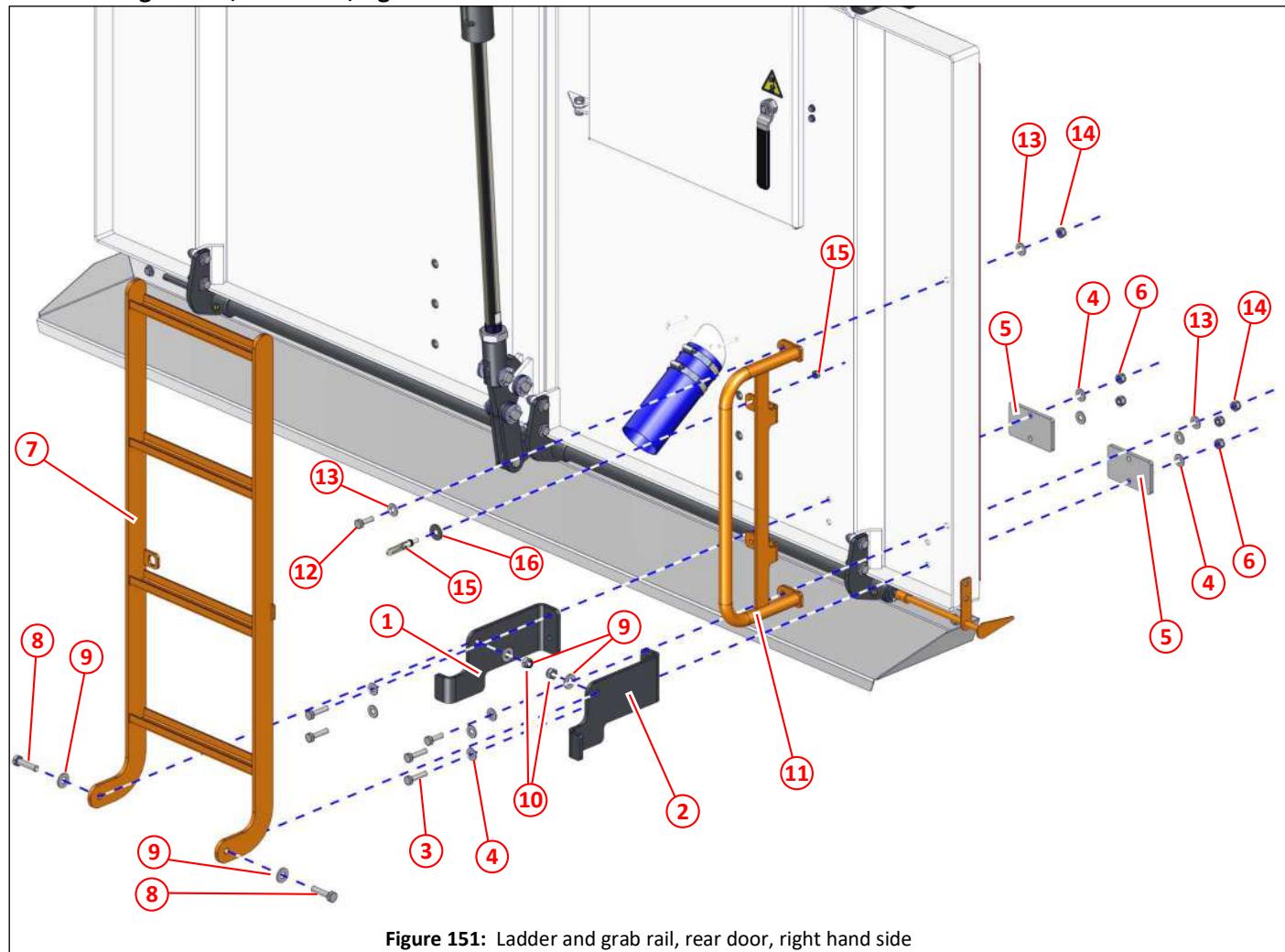
Figure 149: Inspection/access hatch, right hand

Item	Part No	Qty	Description	
①	039263	1	Door, rear, with right hand inspection/access hatch	179
②	036363	1	Hatch, inspection access	
③	013599	1	Seal, inspection/access hatch	
④	011031	2	Set screw M10 x 25	
⑤	011094	2	Plain washer M10	
⑥	011075	2	Nyloc nut M10	
⑦	011019	1	Bolt M8 x 90	
⑧	011092	2	Plain washer M8	
⑨	027933	1	Handle, door	
⑩	040032	1	Sleeve, door handle	
⑪	027935	1	Bearing, door catch	
⑫	027937	2	Back nut $\frac{3}{4}$ " BSP	
⑬	000121	1	Plain washer M27	
⑭	027934	1	Spindle, door catch	
⑮	040033	1	Door catch, with stop, for right hand inspection/access hatch	
⑯	011073	1	Nyloc nut M8	
⑰	039550	1	Label - Warning, debris	452
⑱	027932	1	Striker, door catch	
⑲	000250	2	Set screw M6 x 16, stainless steel	
⑳	000254	2	Plain washer M6, stainless steel	

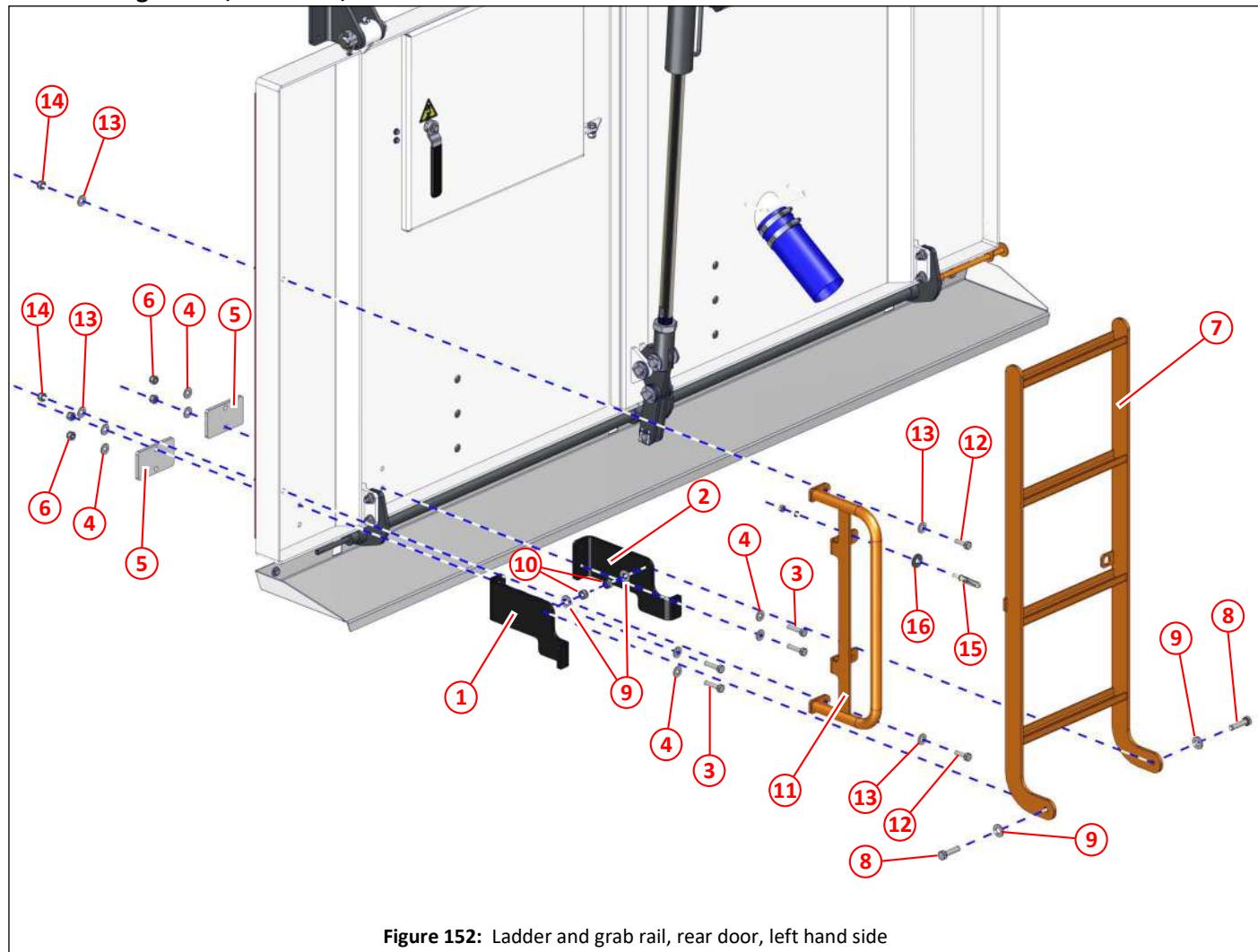
Inspection/access hatch, left hand

Figure 150: Inspection/access hatch, left hand

Item	Part No	Qty	Description	
①	039311	1	Door, rear, with left hand inspection/access hatch	180
②	036363	1	Hatch, inspection access	
③	013599	1	Seal, inspection/access hatch	
④	011031	2	Set screw M10 x 25	
⑤	011094	2	Plain washer M10	
⑥	011075	2	Nyloc nut M10	
⑦	011019	1	Bolt M8 x 90	
⑧	011092	2	Plain washer M8	
⑨	027933	1	Handle, door	
⑩	040032	1	Sleeve, door handle	
⑪	027935	1	Bearing, door catch	
⑫	027937	2	Back nut $\frac{3}{4}$ " BSP	
⑬	000121	1	Plain washer M27	
⑭	027934	1	Spindle, door catch	
⑮	040034	1	Door catch, with stop, for left hand inspection/access hatch	
⑯	011073	1	Nyloc nut M8	
⑰	039550	1	Label - Warning, debris	452
⑱	027932	1	Striker, door catch	
⑲	000250	2	Set screw M6 x 16, stainless steel	
⑳	000254	2	Plain washer M6, stainless steel	

Ladder and grab rail, rear door, right hand side



Item	Part No	Qty	Description
①	039285	1	Hinge, rear ladder, left hand
②	039286	1	Hinge, rear ladder, right side
③	011034	4	Set screw M10 x 40
④	011094	8	Plain washer M10
⑤	040133	2	Plate, load spreader, rear ladder
⑥	011075	4	Nyloc nut M10
⑦	039284	1	Ladder, rear
⑧	011054	2	Set screw M12 x 45
⑨	011096	4	Plain washer M12
⑩	011077	2	Nyloc nut M12
⑪	039287	1	Grab handle, rear door
⑫	011032	2	Set screw M10 x 30
⑬	011094	4	Plain washer M10
⑭	011075	2	Nyloc nut M10
⑮	012253	1	Antiluce, small, includes star washer and nut
⑯	021979	1	Washer, sealing, rubber ø12 x ø30 x 3

Ladder and grab rail, rear door, left hand side

Figure 152: Ladder and grab rail, rear door, left hand side

Item	Part No	Qty	Description
①	039285	1	Hinge left hand, rear ladder
②	039286	1	Hinge right hand, rear ladder
③	011034	4	Set screw M10 x 40
④	011094	8	Plain washer M10
⑤	040133	2	Plate, load spreader, rear ladder
⑥	011075	4	Nyloc nut M10
⑦	039284	1	Ladder, rear
⑧	011054	2	Set screw M12 x 45
⑨	011096	4	Plain washer M12
⑩	011077	2	Nyloc nut M12
⑪	039287	1	Grab handle, rear door
⑫	011032	2	Set screw M10 x 30
⑬	011094	4	Plain washer M10
⑭	011075	2	Nyloc nut M10
⑮	012253	1	Antiluce, small, includes, star washer and nut
⑯	021979	1	Washer, sealing, rubber ø12 x ø30 x 3

Lay flat hose, rear door, hopper drain

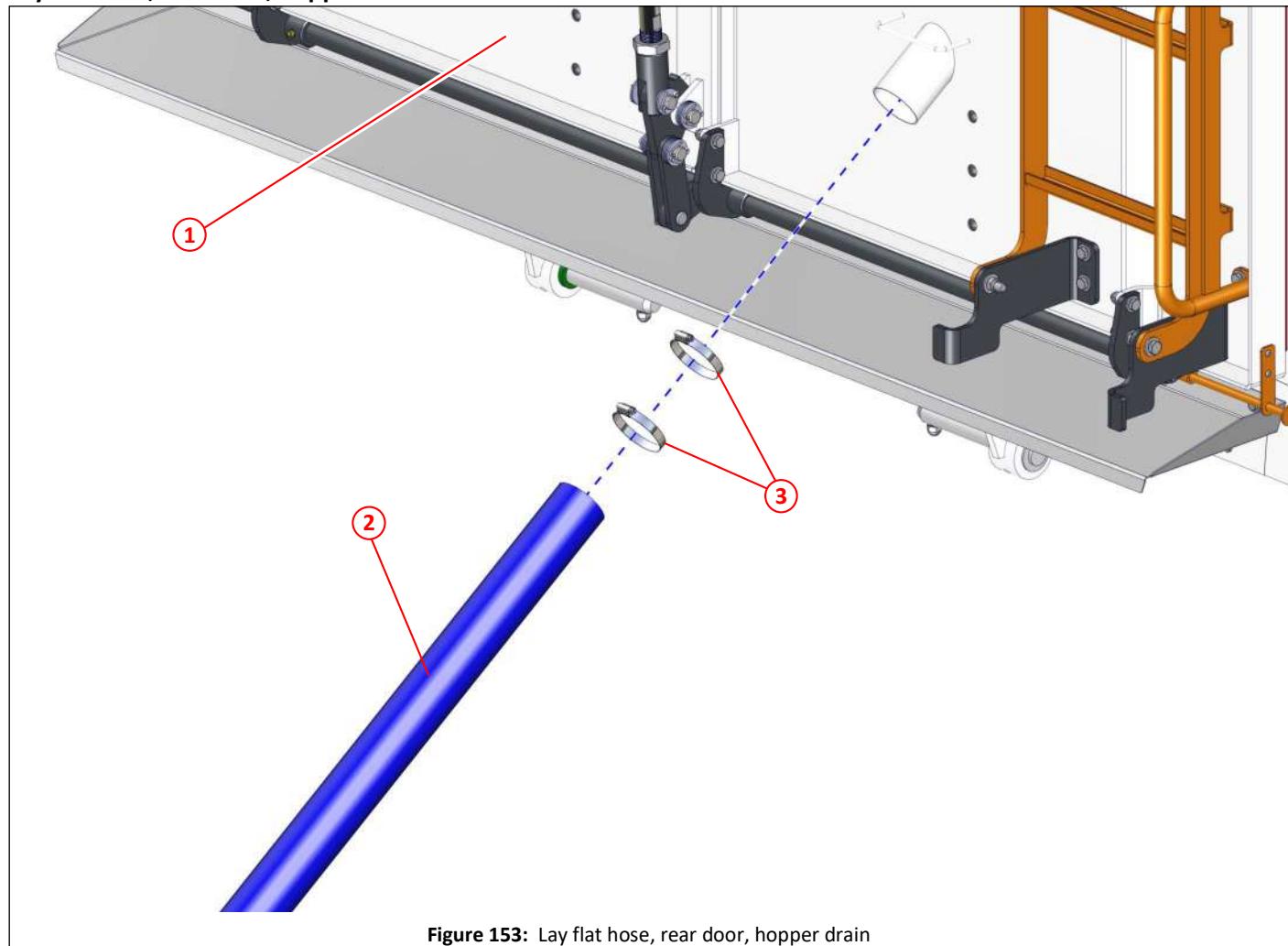
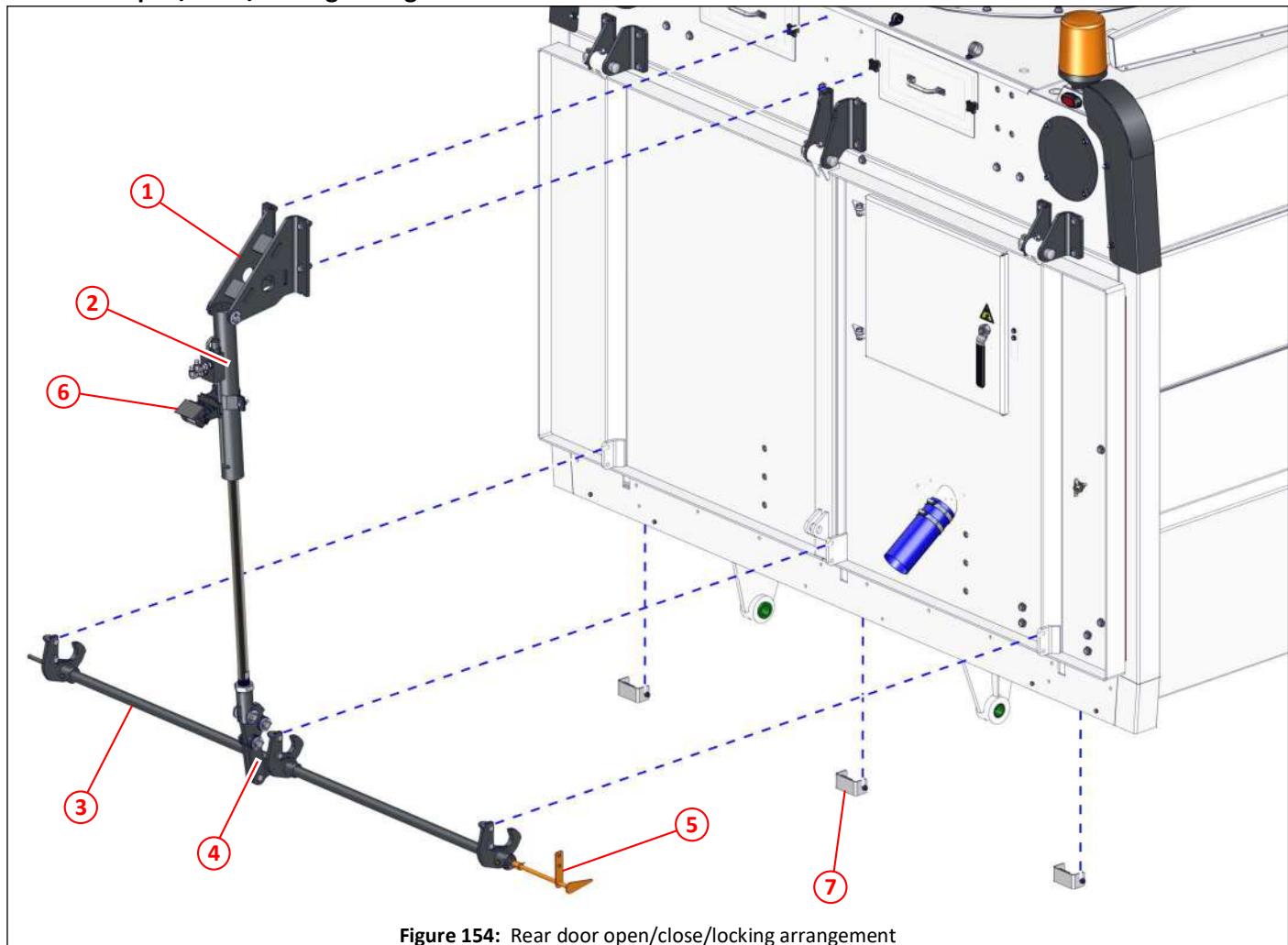


Figure 153: Lay flat hose, rear door, hopper drain

Item	Part No	Qty	Description	
①			Rear door, with inspection/access hatch	178
②	010998		Lay flat hose, blue	
③	012931	2	Hose clamp, worm drive, No. 4 ($\varnothing 70\text{mm}$ - $\varnothing 90\text{mm}$)	

Rear door open/close/locking arrangement

Figure 154: Rear door open/close/locking arrangement

Item	Part No	Qty	Description	
①	034309	1	Hinge, rear door ram	188
②	034816	1	Ram, rear door	189
③	034317		Locking bar, rear door	190
④			Locking cam arrangement	191
⑤	035654	1	Locking flag	190
⑥			Rear camera	193,329
⑦	034322	3	Wear plate, rear door locking	192

Hinge, rear door ram

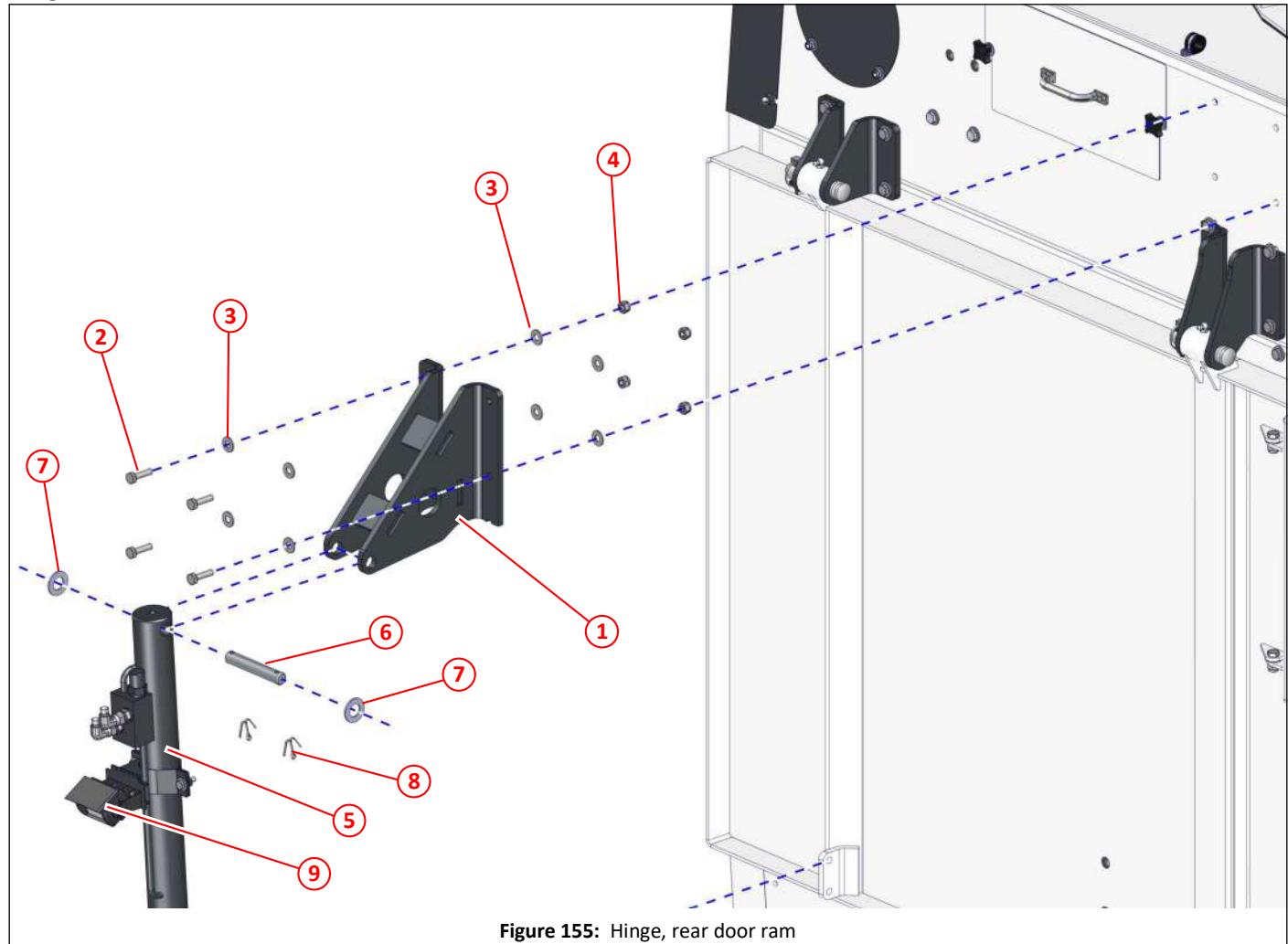


Figure 155: Hinge, rear door ram

Item	Part No	Qty	Description	
①	034309	1	Hinge, rear door ram	189
②	011033	4	Set screw M10 x 35	
③	011094	8	Plain washer M10	
④	011075	4	Nyloc nut M10	
⑤	034816	1	Ram, rear door	189
⑥	022558	1	Pin, rear door ram	
⑦	011102	2	Plain washer M20	
⑧	011122	2	Split pin 3/16" x 1 1/2"	
⑨			Rear camera	193,329

Ram, rear door open/close/lock

Figure 156: Ram, rear door open/close/lock

Item	Part No	Qty	Description	
①	034816	1	Ram, rear door	272
②	034309	1	Hinge, rear door ram	188
③	034317	1	Locking bar, rear door	190
④			Locking cam arrangement	191
⑤	022558	1	Pin, rear door ram	
⑥	011102	6	Plain washer M20	
⑦	011122	4	Split pin $\frac{3}{16}$ " x $1\frac{1}{2}$ "	
⑧	014038	1	Pin $\varnothing 20$ x 70	
⑨	011152	2	Dowty seal $\frac{1}{4}$ " BSP	
⑩	011158	2	Adapter, M/M, $\frac{1}{4}$ " BSP x $\frac{1}{4}$ " BSP	
⑪	011171	2	Elbow, swivel, M/F, $\frac{1}{4}$ " BSP	
⑫	011328	2	Hose, $\frac{1}{4}$ " BSP x 1780, straight ends,	
⑬	001321	1	Hose, $\frac{1}{4}$ " BSP x 1850, straight ends,	
⑭			Rear camera	193,329

Locking bar, rear door

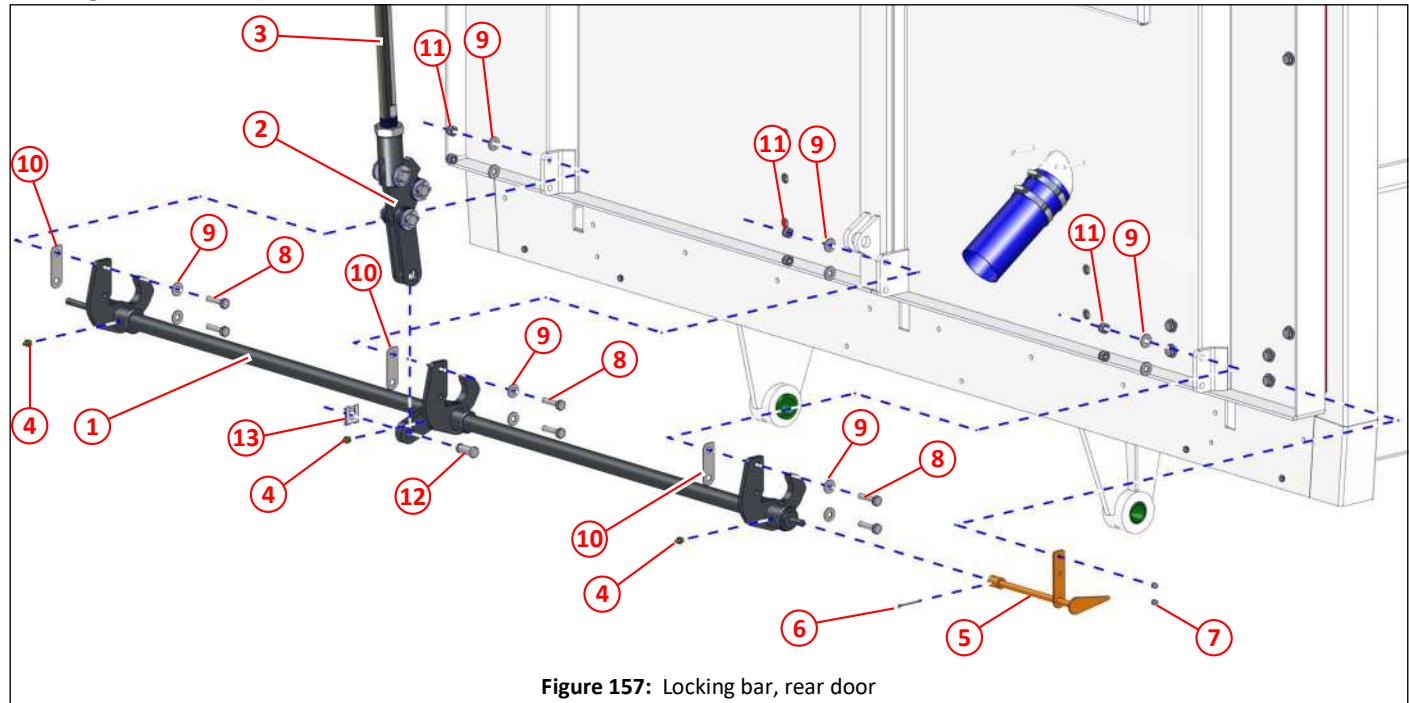
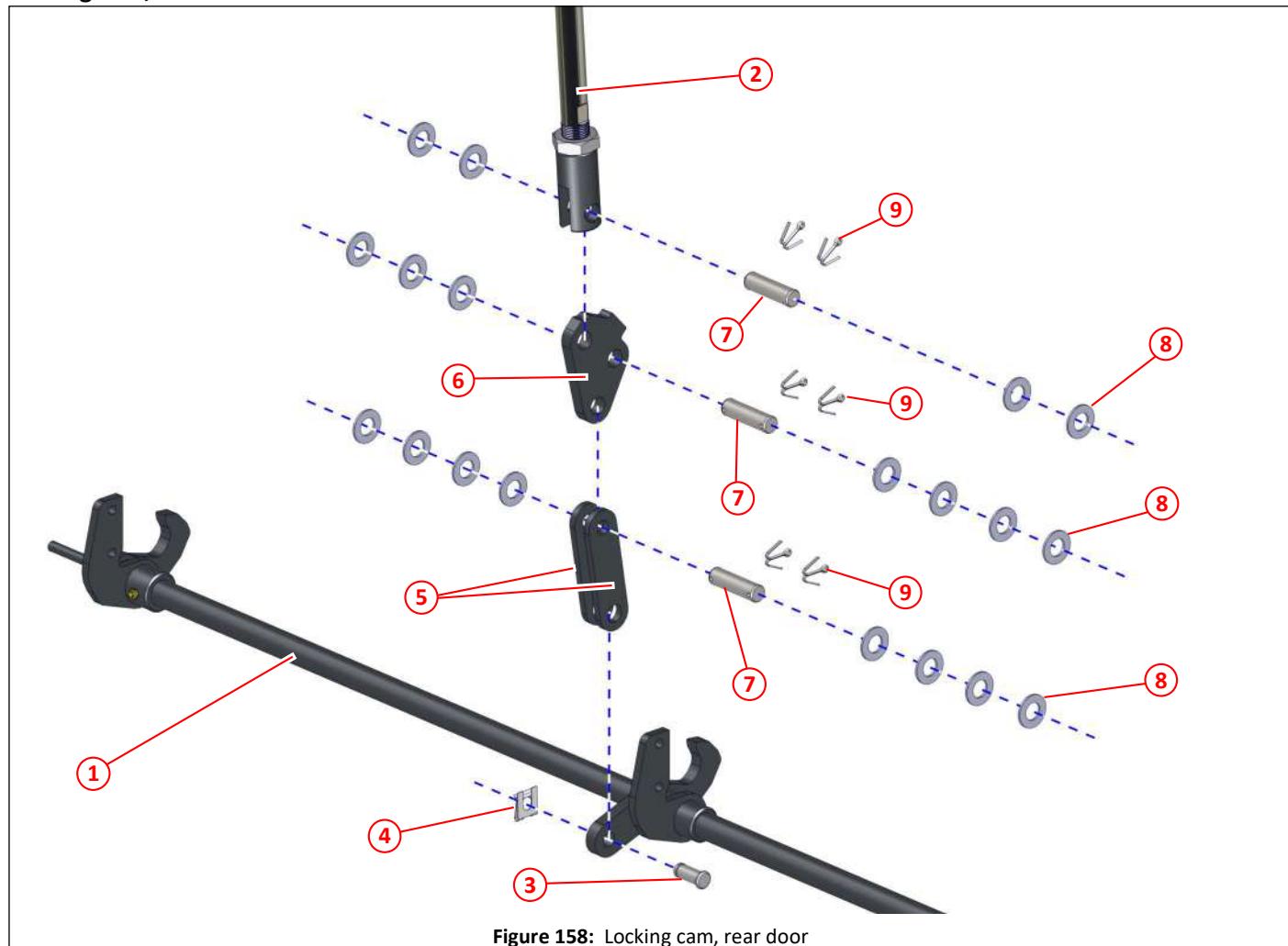


Figure 157: Locking bar, rear door

Item	Part No	Qty	Description	
①	034317	1	Locking bar, rear door	
②			Locking cam arrangement	191
③	034816	1	Ram, rear door	189
④	010903	3	Grease nipple $\frac{1}{8}$ " BSP, straight	
⑤	035654	1	Locking flag, fitted to drivers side of locking bar/hopper door	
⑥	000103	1	Split pin $\frac{5}{32}$ " x $1\frac{1}{2}$ "	
⑦	011131	2	Rivet, blind $\varnothing 4.8 \times 18$	
⑧	011034	6	Set screw M10 x 40	
⑨	011094	12	Plain washer M10	
⑩	038151	As req	Shim 1.5mm, rear door locking bar	
⑪	038149	As req	Shim 2mm, rear door locking bar	
⑫	011075	6	Nyloc nut M10	
⑬	022673	1	Clevis pin, turned	
⑭	022674	1	Clip, retaining, M16	

Locking cam, rear door

Figure 158: Locking cam, rear door

Item	Part No	Qty	Description	
①	034317	1	Locking bar, rear door open/close/lock	187,189,190
②	034816	1	Ram, rear door	189
③	022673	1	Clevis pin, turned	
④	022674	1	Clip, retaining, M16	
⑤	034315	2	Push link, door locking	
⑥	034314	1	Cam, door locking	
⑦	014038	3	Pin ø20 x 70	
⑧	011102	19	Plain washer M20	
⑨	011122	6	Split pin $\frac{3}{16}$ " x $1\frac{1}{2}$ "	

Locking wear plates, rear door

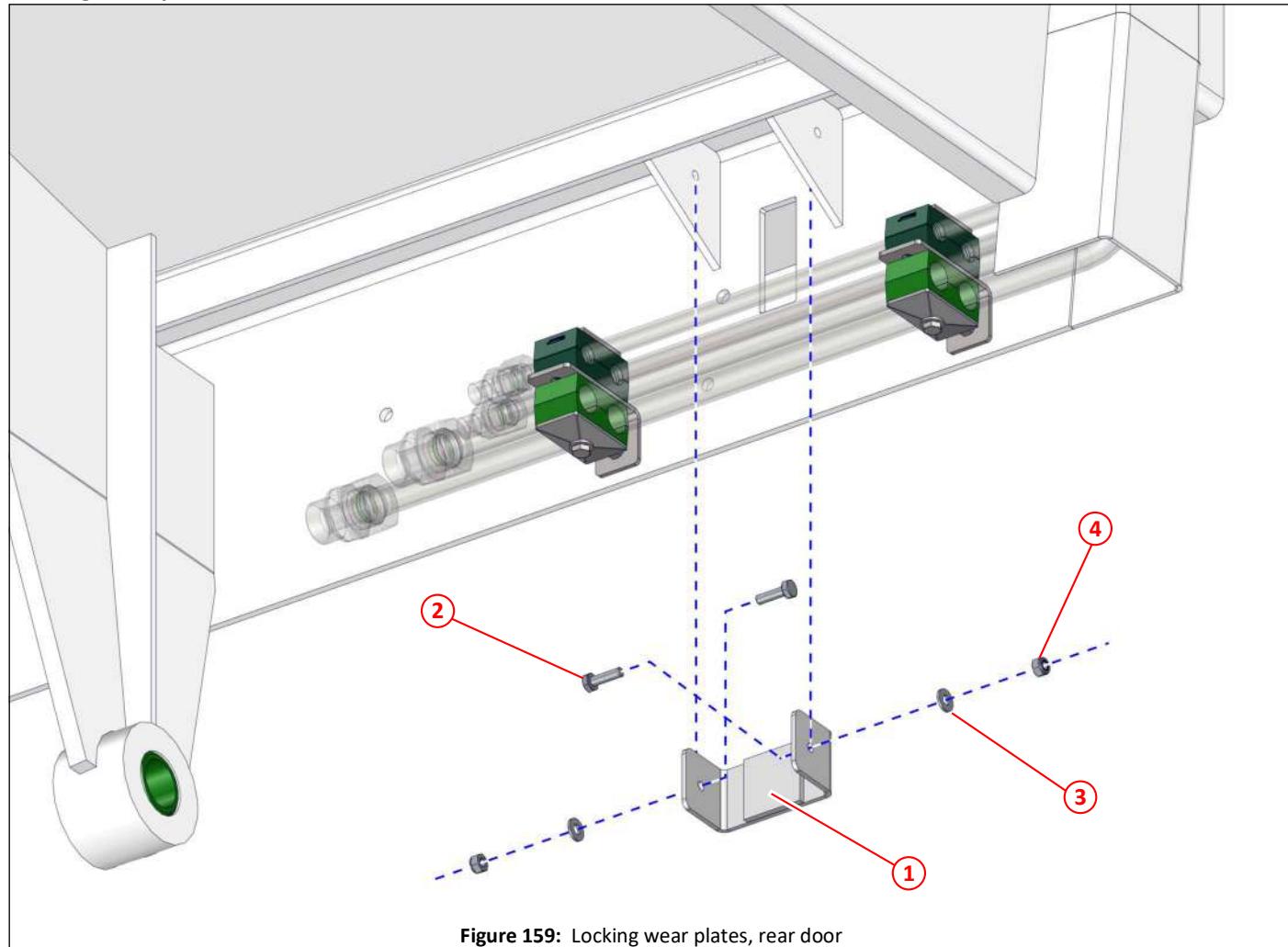
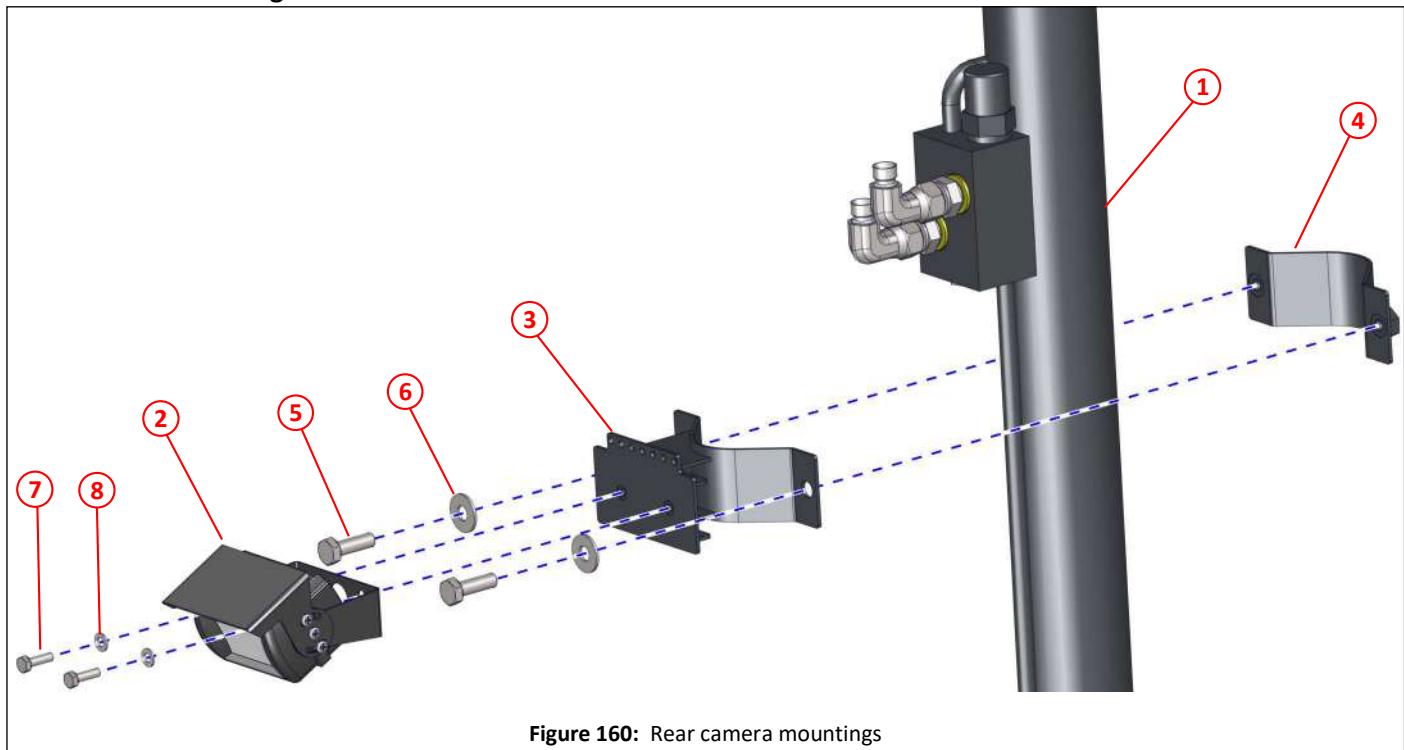


Figure 159: Locking wear plates, rear door

Item	Part No	Qty	Description	
①	034322	1	Wear plate, rear door locking	187
②	000252	2	Set screw M6 x 20, stainless steel	
③	000254	2	Plain washer M6, stainless steel	
④	000253	2	Nyloc nut M6, stainless steel	

Rear camera mountings

Figure 160: Rear camera mountings

Item	Part No	Qty	Description	
①	034816	1	Ram, rear door	189
②	040354	1	Camera	329
③	040676	1	Front clamp, camera mount	
④	040677	1	Rear clamp, camera mounting	
⑤	011011	2	SETSCREW M8 X 25	
⑥	011092	2	Plain washer M8	
⑦	000052	2	Bolt M5 X 16	
⑧	000410	2	Plain washer M5	

Hopper and body

Direction sign, rear door mounted

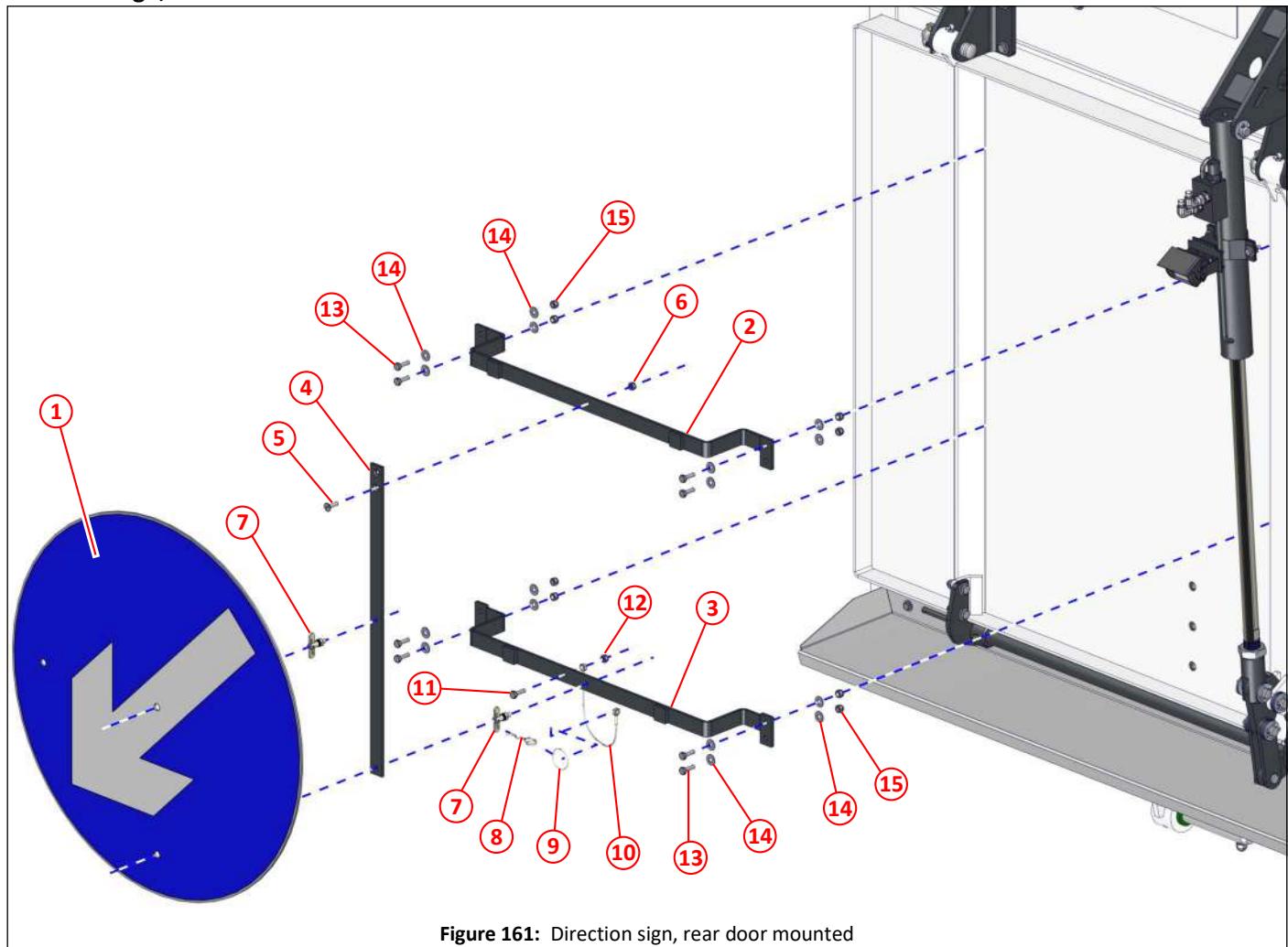


Figure 161: Direction sign, rear door mounted

Item	Part No	Qty	Description
①	021869	1	Direction arrow sign, ø750
②	035818	1	Support bracket, upper, rear sign
③	035819	1	Support bracket, lower, rear sign
④	031978	1	Support bar, centre, rear sign
⑤	000109	1	Countersunk slotted screw M8 x 25
⑥	011073	1	Nyloc nut M8
⑦	012253	2	Antiluce, small, includes star washer and nut
⑧	021944	1	R-Clip, grip, double wound (ø3 wire)
⑨	023599	1	Ring
⑩	020711	1	Leash cable
⑪	000257	1	Set screw M8 x 25, stainless steel
⑫	011073	1	Nyloc nut M8
⑬	000257	8	Set screw M8 x 25, stainless steel
⑭	000264	16	Plain washer M8, stainless steel
⑮	000263	8	Nyloc nut M8, stainless steel

Water

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Spray bar, high pressure, rear of suction nozzle, water feed and shut off valve	243
Spray bar, high pressure, central brush (wide sweep), mounting, water feed and shut off valve	244
Fan wash assist	245

Water system layout

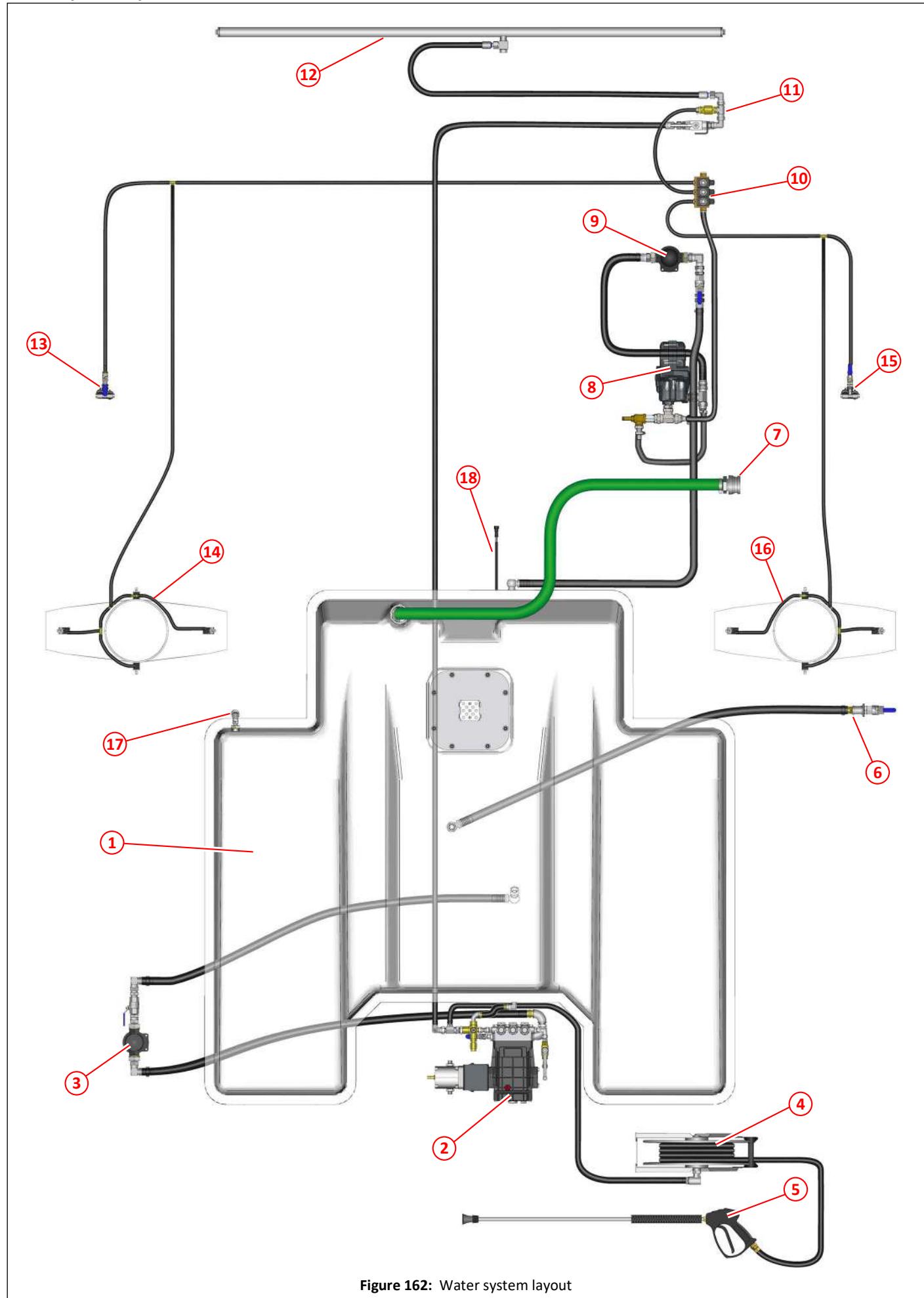


Figure 162: Water system layout

Water system layout

Item	Part No	Qty	Description	
①			Water tank	198
②			Water pump, high pressure	232
③			Water strainer, high pressure	231
④			Hose reel	238
⑤			Hand lance	239
⑥			Water tank drain	204
⑦			Water filler	177
⑧			Water pump, low pressure	215
⑨			Water strainer, low pressure	214
⑩			Water valves	218
⑪			Front spray bar tap	237
⑫			Front spray bar	229
⑬			Water spray nozzles, left hand side brush	225
⑭			Water spray nozzles, left hand suction nozzle	227
⑮			Water spray nozzles, right hand side brush	226
⑯			Water spray nozzles, right hand suction nozzle	227
⑰			Water level sight tube	201
⑱			Water level float switch	203

 Dual sweep sweeper with high pressure water pump shown. Other sweepers will differ depending on configuration

Water tank

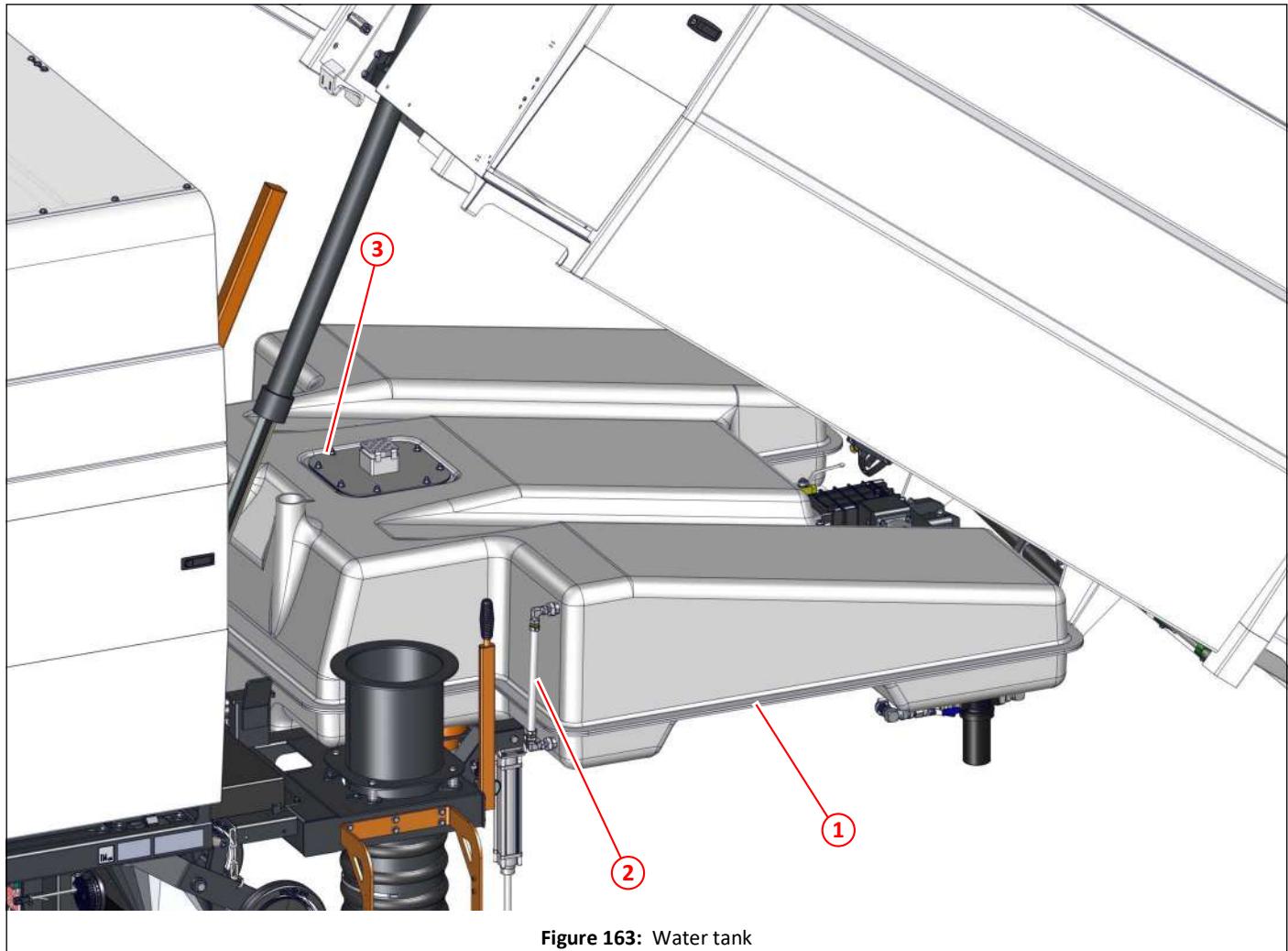


Figure 163: Water tank

Item	Part No	Qty	Description	Page
①	050809	1	Water tank	
②			Water level sight tube	201
③	034760		Lid, water tank	

Water tank anti-vibration mountings

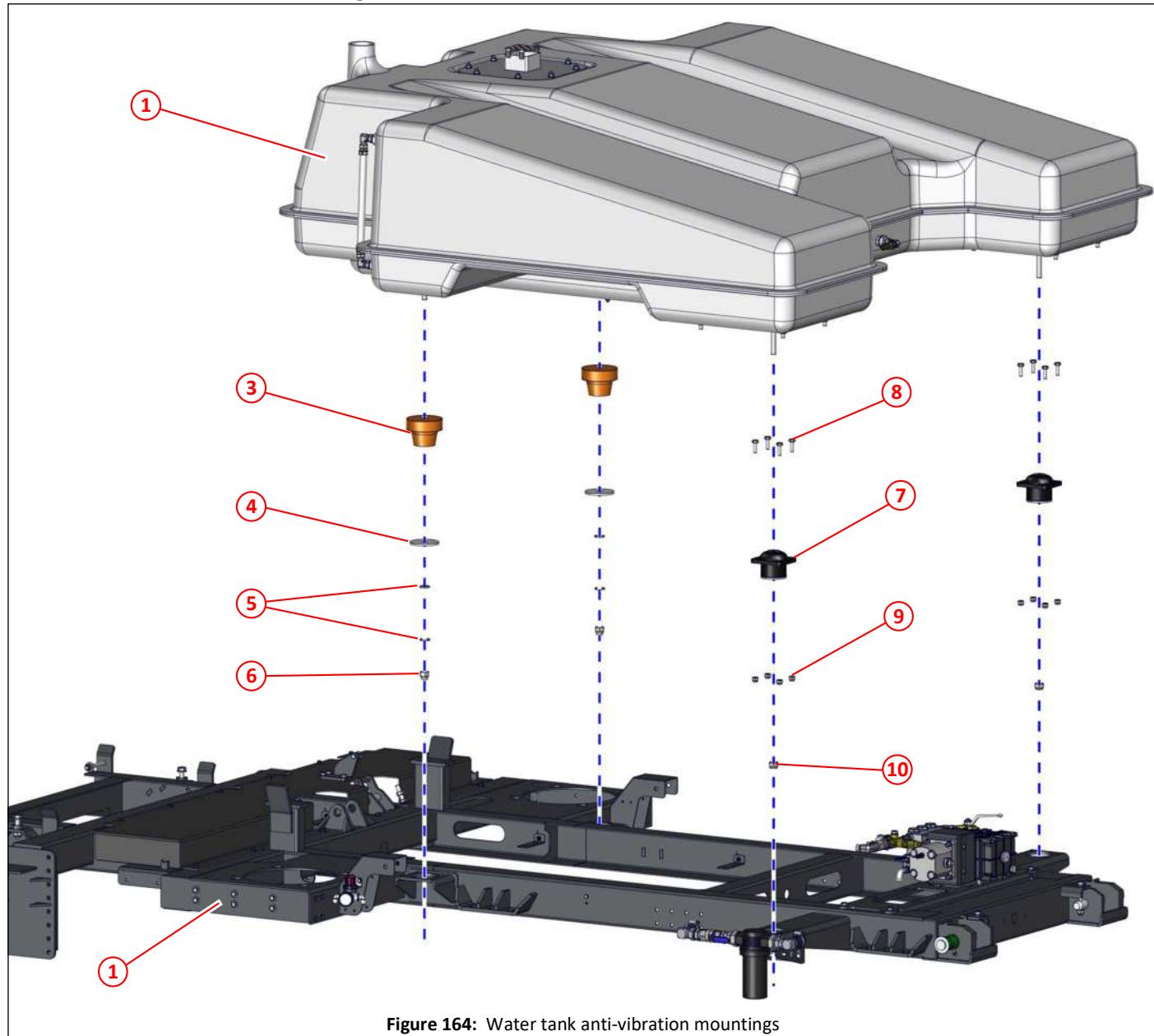
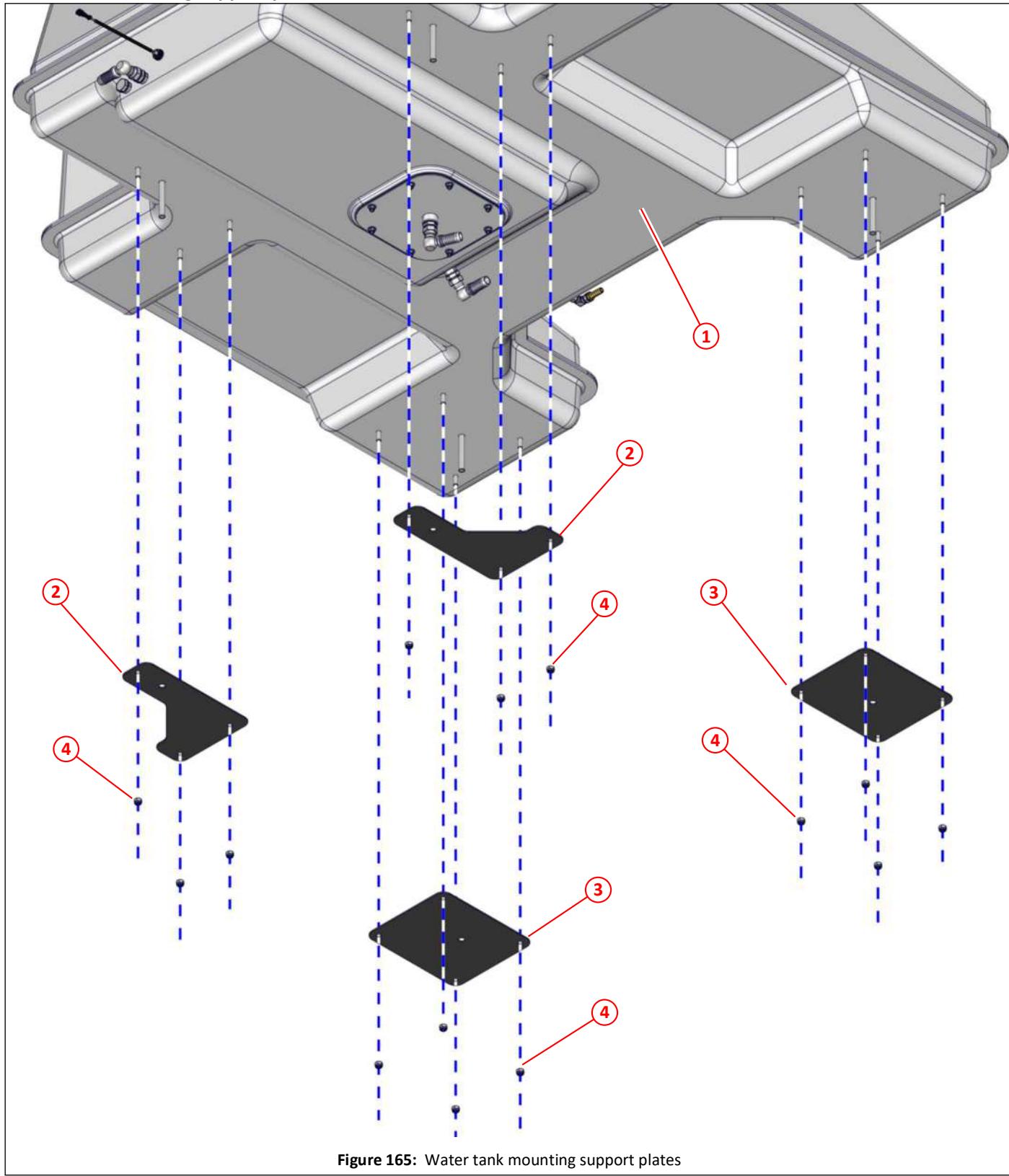


Figure 164: Water tank anti-vibration mountings

Item	Part No	Qty	Description	
①	042942	1	Subframe	365
②	050809	1	Water tank	
③	044509	2	Bush, orange, water tank	
④	044623	2	Washer ø16.5 x ø85 x 5	
⑤	011135	4	Plain washer M16	
⑥	000493	2	Nut, dome, M16, DIN 1587	
⑦	033838	2	Mounting, anti-vibration, MS243/5 (HD type), water tank	366
⑧	011032	8	Set screw M10 x 30	
⑨	011075	8	Nyloc nut M10	
⑩	011060	2	Nyloc nut M16	

Water tank mounting support plates



Item	Part No	Qty	Description
①	050809	1	Water tank
②	034871	2	Support plate, front
③	034872	2	Support plate, rear
④	011077		Nyloc nut M12

Water level sight tube, water tank

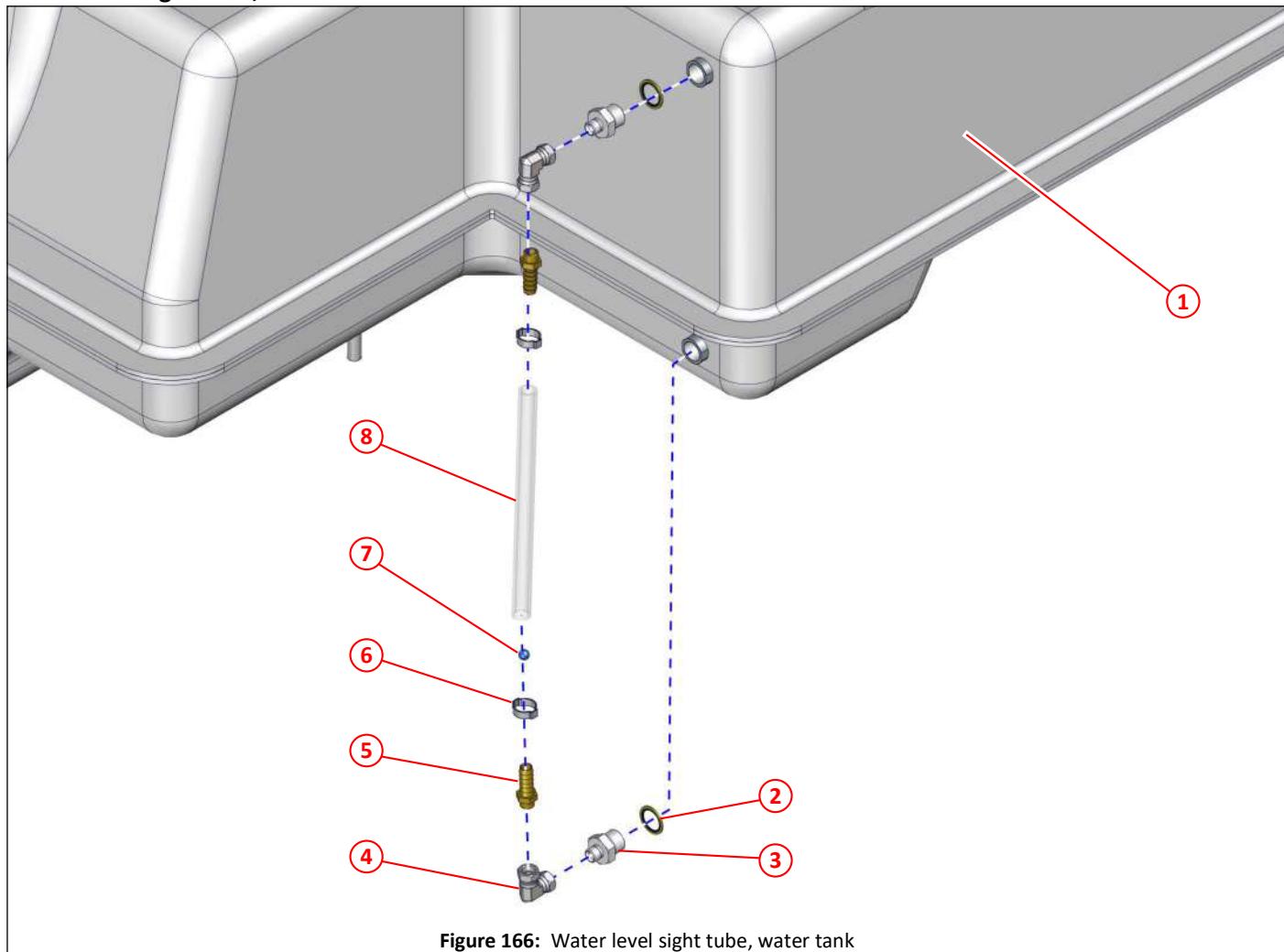
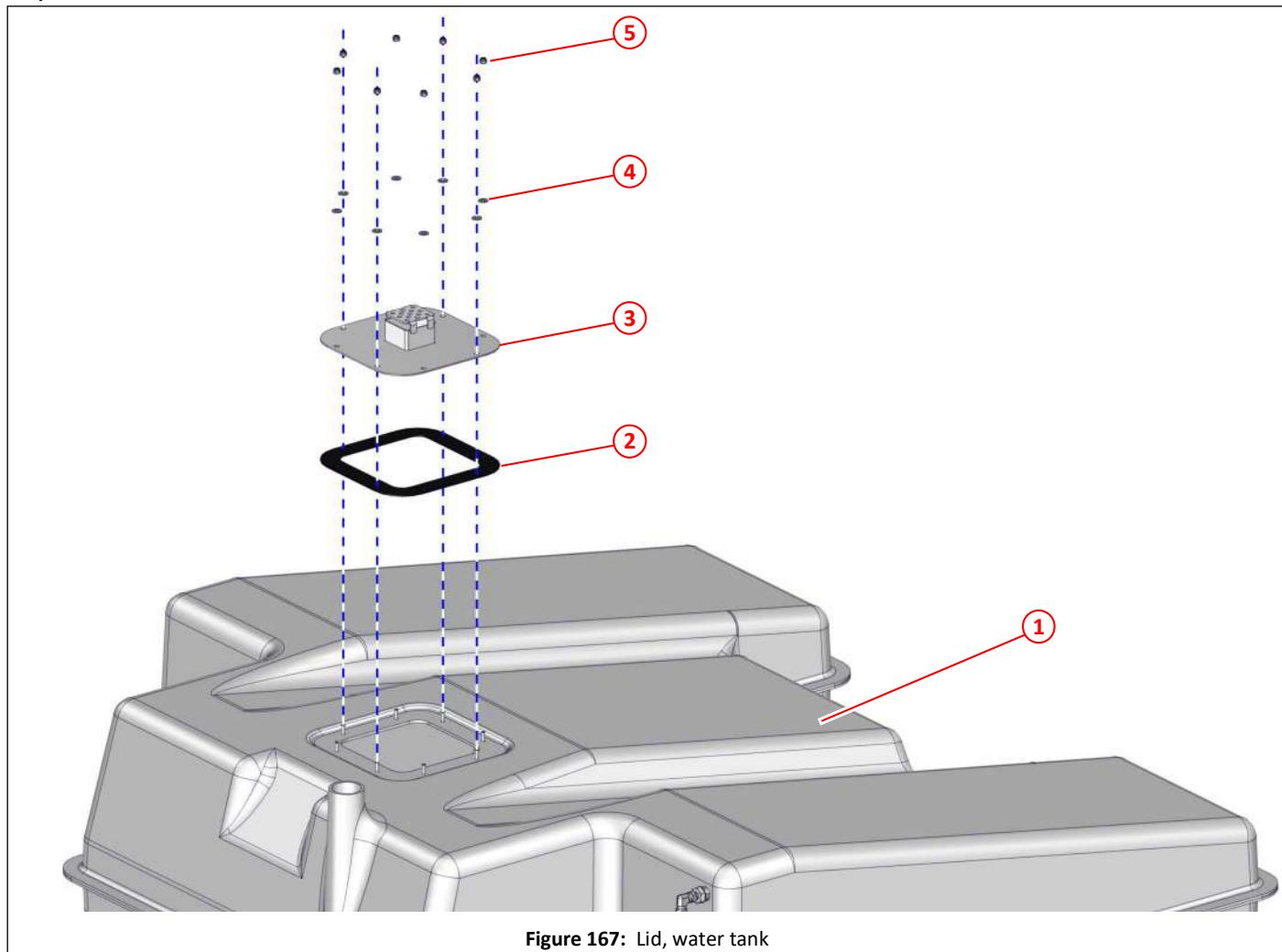


Figure 166: Water level sight tube, water tank

Item	Part No	Qty	Description
(1)	050809	1	Water tank
(2)	011155	2	Dowty seal, $\frac{3}{4}$ " BSP
(3)	011224	2	Adapter, $\frac{3}{4}$ " BSP x $\frac{3}{8}$ " BSP
(4)	011205	2	Elbow, swivel, F/F, $\frac{3}{8}$ " BSP
(5)	010930	2	Adapter, $\frac{3}{8}$ " BSP x $\frac{5}{8}$ ", hose tail
(6)	000202	2	O-Clip $\frac{7}{8}$ "
(7)	025335	1	Ball, plastic, $\frac{1}{2}$ "
(8)	040424	300mm	PVC tube, clear, $\frac{5}{8}$ "

Lid, water tank



Item	Part No	Qty	Description
①	050809	1	Water tank
②	034873	1	Gasket, water tank
③	034760	1	Lid, water tank
④	000264	8	Plain washer, M8, stainless steel
⑤	000263	8	Nyloc nut M8, stainless steel

Fittings, water tank, front

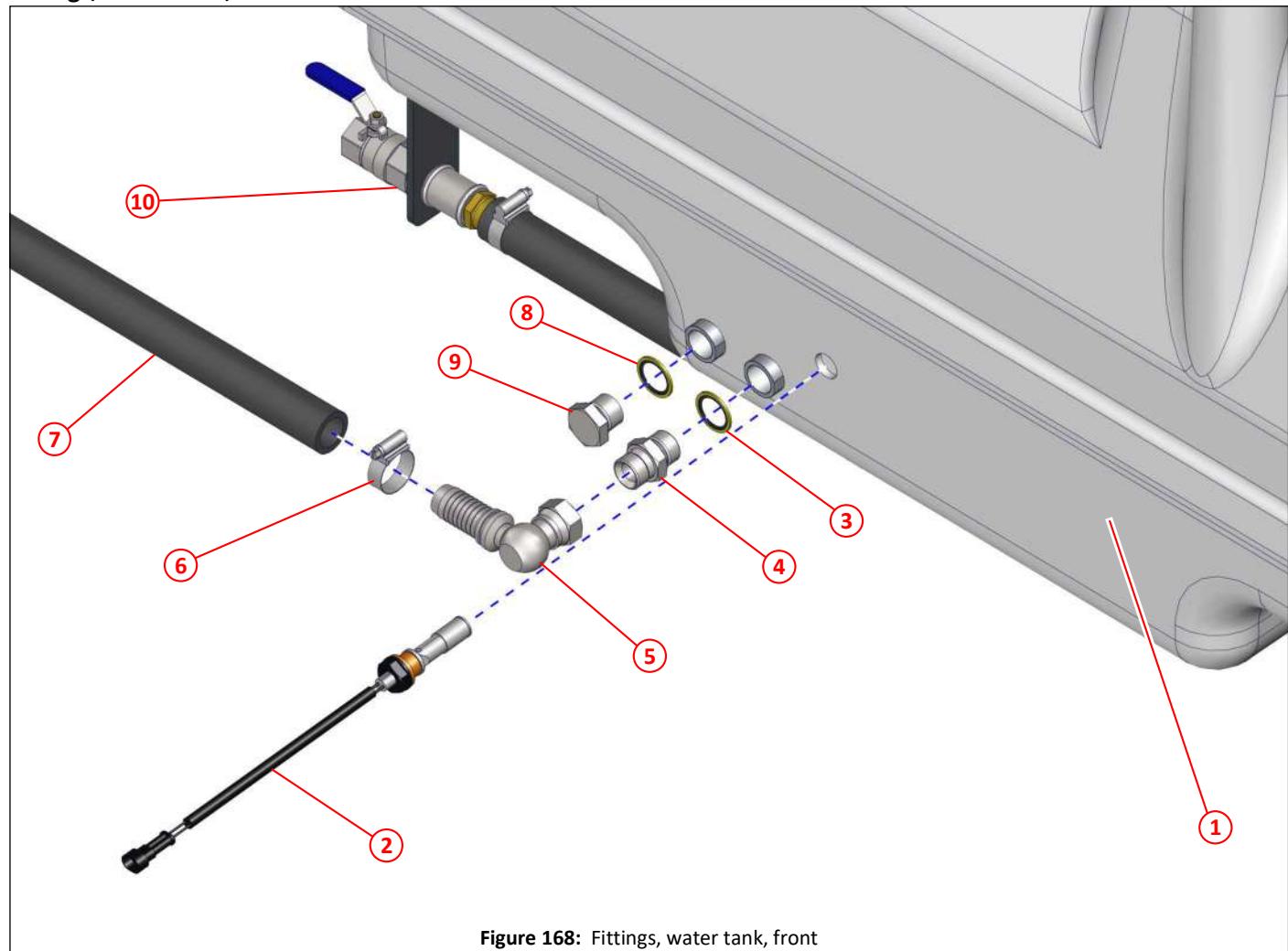
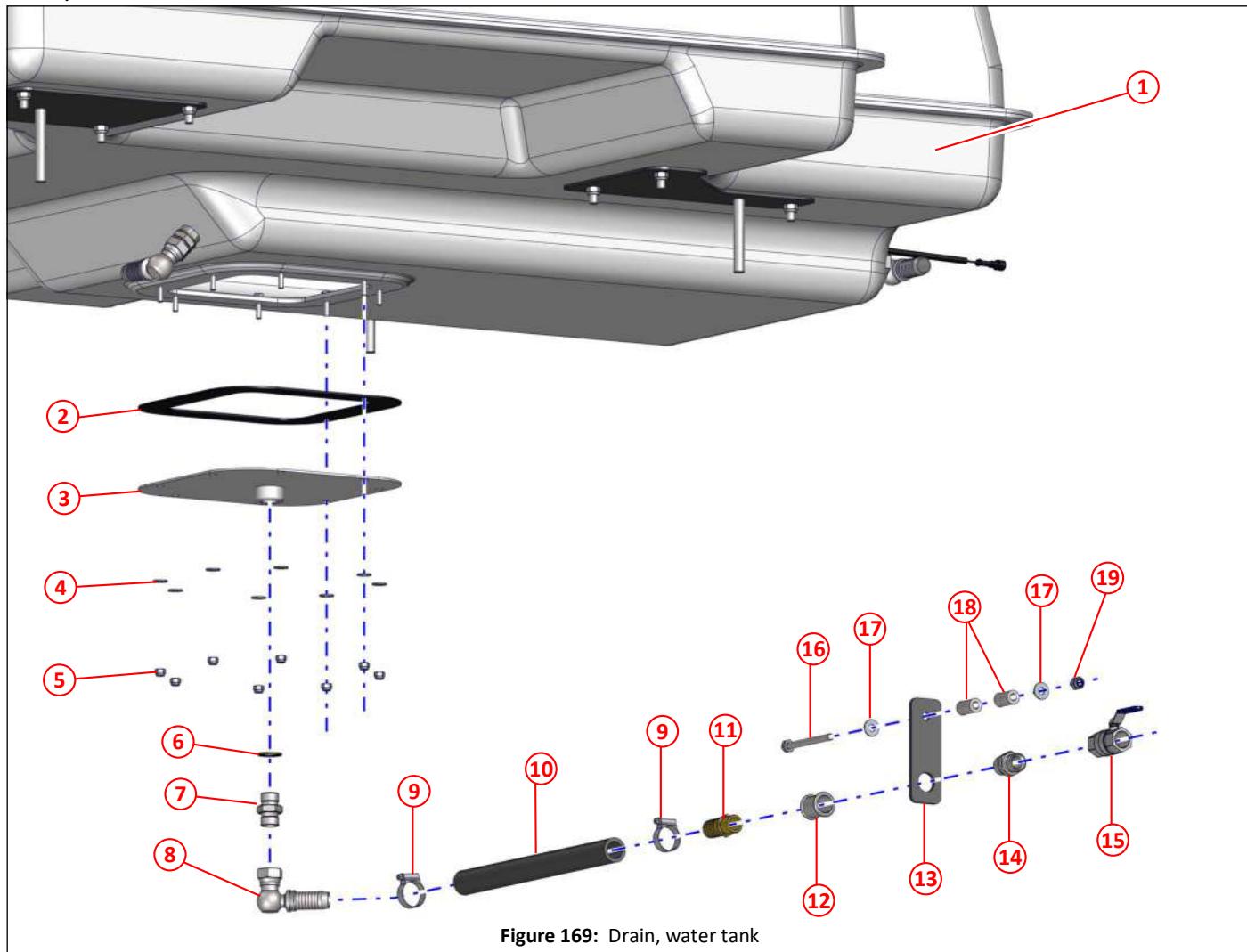


Figure 168: Fittings, water tank, front

Item	Part No	Qty	Description	
①	050809	1	Water tank	
②	038671	1	Float switch, with amp plug	
③	011155	1	Dowty seal, $\frac{3}{4}$ " BSP	
④	011161	1	Adapter, $\frac{3}{4}$ " BSP	
⑤	002203	1	Elbow, $\frac{3}{4}$ " BSP x 1", hose tail	
⑥	010518	1	Hose clamp, worm drive, No. 1X ($\varnothing 30\text{-}\varnothing 40$)	
⑦	010959	As req	Hose, 1", to water filter	
⑧	011155	1	Dowty seal, $\frac{3}{4}$ " BSP	
⑨	011244	1	Plug, $\frac{3}{4}$ " BSP	
⑩			Water tank drain	204

Drain, water tank



Item	Part No	Qty	Description
①	050809	1	Water tank
②	034873	1	Gasket, water tank
③	034780	1	Sump plate, water tank
④	000264	8	Plain washer, M8, stainless steel
⑤	000263	8	Nyloc nut, M8, stainless steel
⑥	011155	1	Dowty seal, $\frac{3}{4}$ " BSP
⑦	011161	1	Adapter, $\frac{3}{4}$ " BSP
⑧	002203	1	Elbow, $\frac{3}{4}$ " BSP x 1", hose tail
⑨	010518	2	Hose clamp, worm drive, No. 1X (ϕ 30- ϕ 40)
⑩	010959	As req	Hose, 1"
⑪	010931	1	Adapter, male $\frac{3}{4}$ " BSP x 1", hose tail
⑫	010934	1	Socket, $\frac{3}{4}$ " BSP
⑬	021848	1	Bracket, water tank drain
⑭	011161	1	Adapter, $\frac{3}{4}$ " BSP
⑮	013757	1	Valve, ball, $\frac{3}{4}$ " BSP
⑯	011842	1	Bolt M10 x 110
⑰	000270	2	Plain washer, M10, stainless steel
⑱	037723	2	Spacer
⑲	000269	1	Nyloc nut, M10, stainless steel

Drain, water tank, when auxiliary water tank fitted

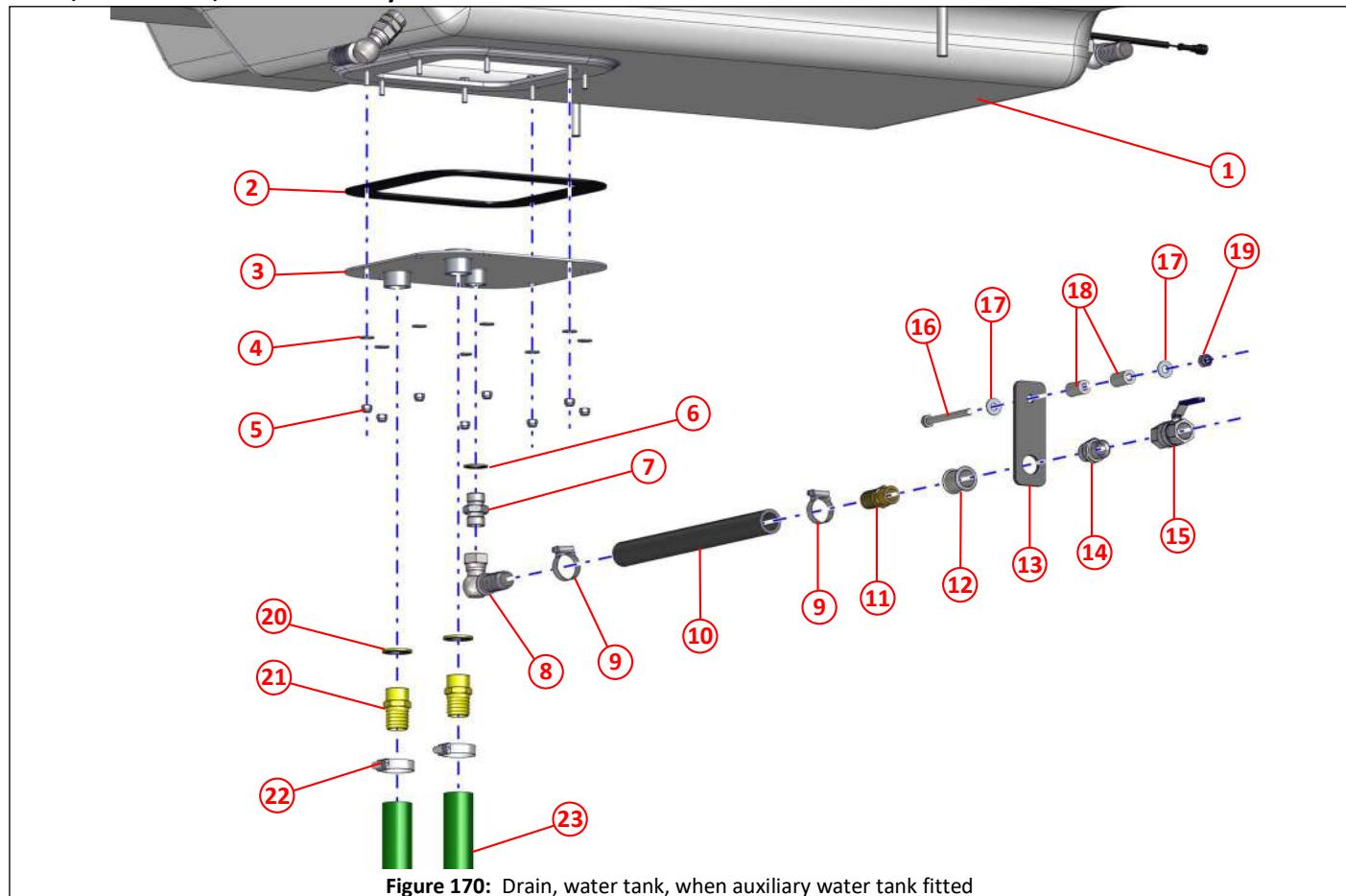
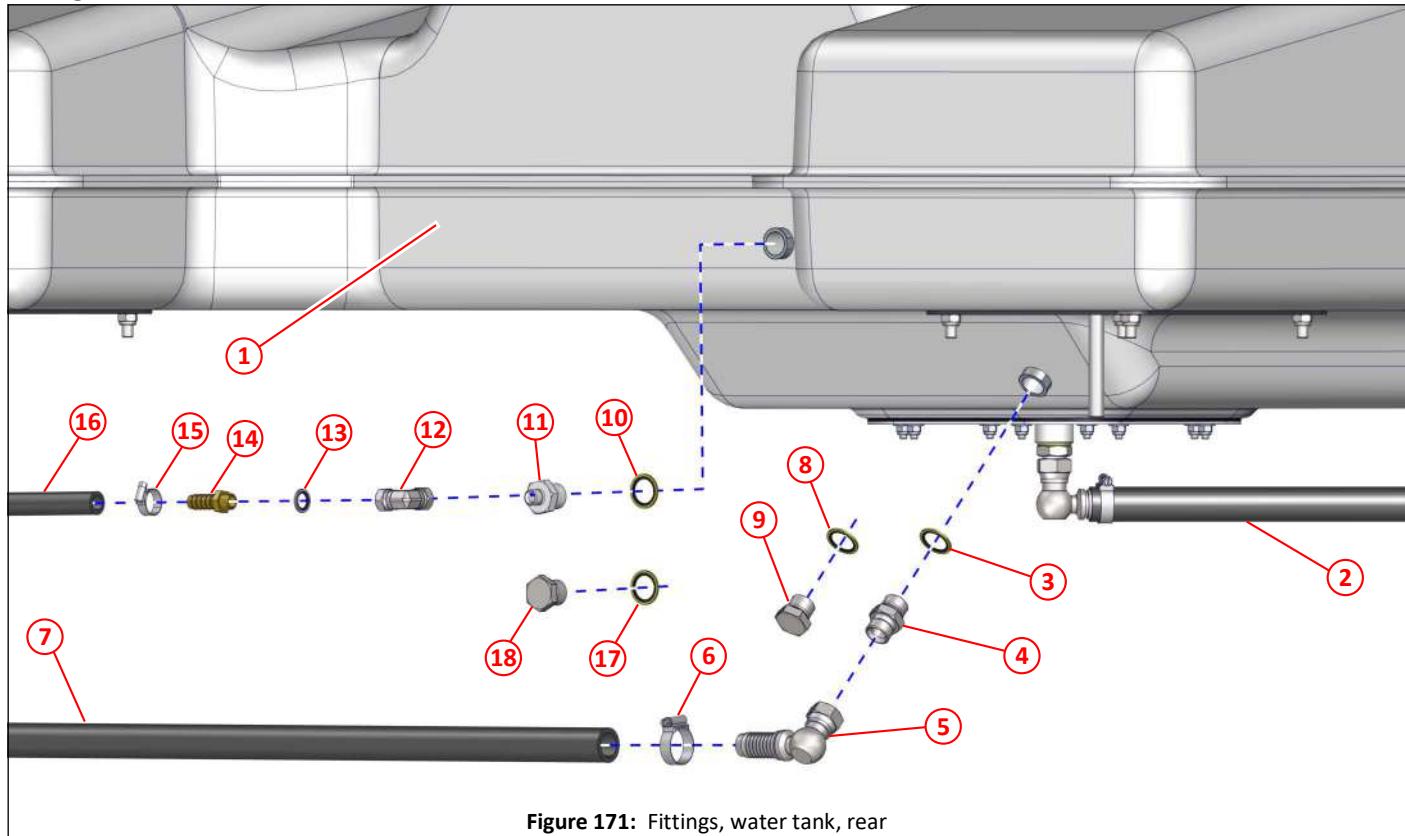


Figure 170: Drain, water tank, when auxiliary water tank fitted

Item	Part No	Qty	Description
①	050809	1	Water tank
②	034873	1	Gasket, water tank
③	040135	1	Sump plate, water tank, with auxiliary water tank
④	000264	8	Plain washer, M8, stainless steel
⑤	000263	8	Nyloc nut M8, stainless steel
⑥	011155	1	Dowty seal, $\frac{3}{4}$ " BSP
⑦	011161	1	Adapter, $\frac{3}{4}$ " BSP
⑧	002203	1	Elbow, $\frac{3}{4}$ " BSP x 1", hose tail
⑨	010518	2	Hose clamp, worm drive, No. 1X (ϕ 30- ϕ 40)
⑩	010959	As req	Hose, 1"
⑪	010931	1	Adapter, male $\frac{3}{4}$ " BSP x 1", hose tail
⑫	010934	1	Socket, $\frac{3}{4}$ " BSP
⑬	021848	1	Bracket, water tank drain
⑭	011161	1	Adapter, $\frac{3}{4}$ " BSP
⑮	013757	1	Valve, ball, $\frac{3}{4}$ " BSP
⑯	011842	1	Bolt M10 x 110
⑰	000270	2	Plain washer, M10, stainless steel
⑱	037723	2	Spacer
⑲	000269	1	Nyloc nut, M10, stainless steel
⑳	011156	2	Dowty seal, 1" BSP
㉑	003029	2	Adapter, male 1" BSP x 1 $\frac{1}{4}$ " hose tail
㉒	003007	2	Hose clamp, worm drive, No. 2A (ϕ 35- ϕ 50)
㉓	001077	As req	Hose, green medium duty, id 1 $\frac{1}{4}$ "

Fittings, water tank, rear



Item	Part No	Qty	Description	
①	050809	1	Water tank	
②			Water tank drain	204
③	011155	1	Dowty seal, $\frac{3}{4}$ " BSP	
④	011161	1	Adapter, $\frac{3}{4}$ " BSP	
⑤	002203	1	Elbow, $\frac{3}{4}$ " BSP x 1", hose tail	
⑥	010518	1	Hose clamp, worm drive, No. 1X (ϕ 30- ϕ 40)	
⑦	010959	As req	Hose, 1", to water filter (for high pressure)	
⑧	011155*	1	Dowty seal, $\frac{3}{4}$ " BSP	
⑨	011244*	1	Plug, $\frac{3}{4}$ " BSP	
⑩	011155	1	Dowty seal, $\frac{3}{4}$ " BSP	
⑪	011224	1	Adapter, $\frac{3}{4}$ " BSP x $\frac{3}{8}$ " BSP	
⑫	011205	1	Elbow, swivel, F/F, $\frac{3}{8}$ " BSP	
⑬	011153	1	Dowty seal $\frac{3}{8}$ " BSP	
⑭	010930	1	Adapter, $\frac{3}{8}$ " BSP x $\frac{5}{8}$ ", hose tail	
⑮	010517	1	Hose clamp, worm drive, No. 0X (ϕ 18- ϕ 25)	
⑯	011000	As req	Hose, $\frac{5}{8}$ ", return from high pressure pump	
⑰	011155*	1	Dowty seal, $\frac{3}{4}$ " BSP	
⑱	011244*	1	Plug, $\frac{3}{4}$ " BSP	

*. These items are used to blank the associated bosses if sweeper is not fitted with high pressure water system.

Auxiliary water tank, 650 litre (172 US gallons), mounting location

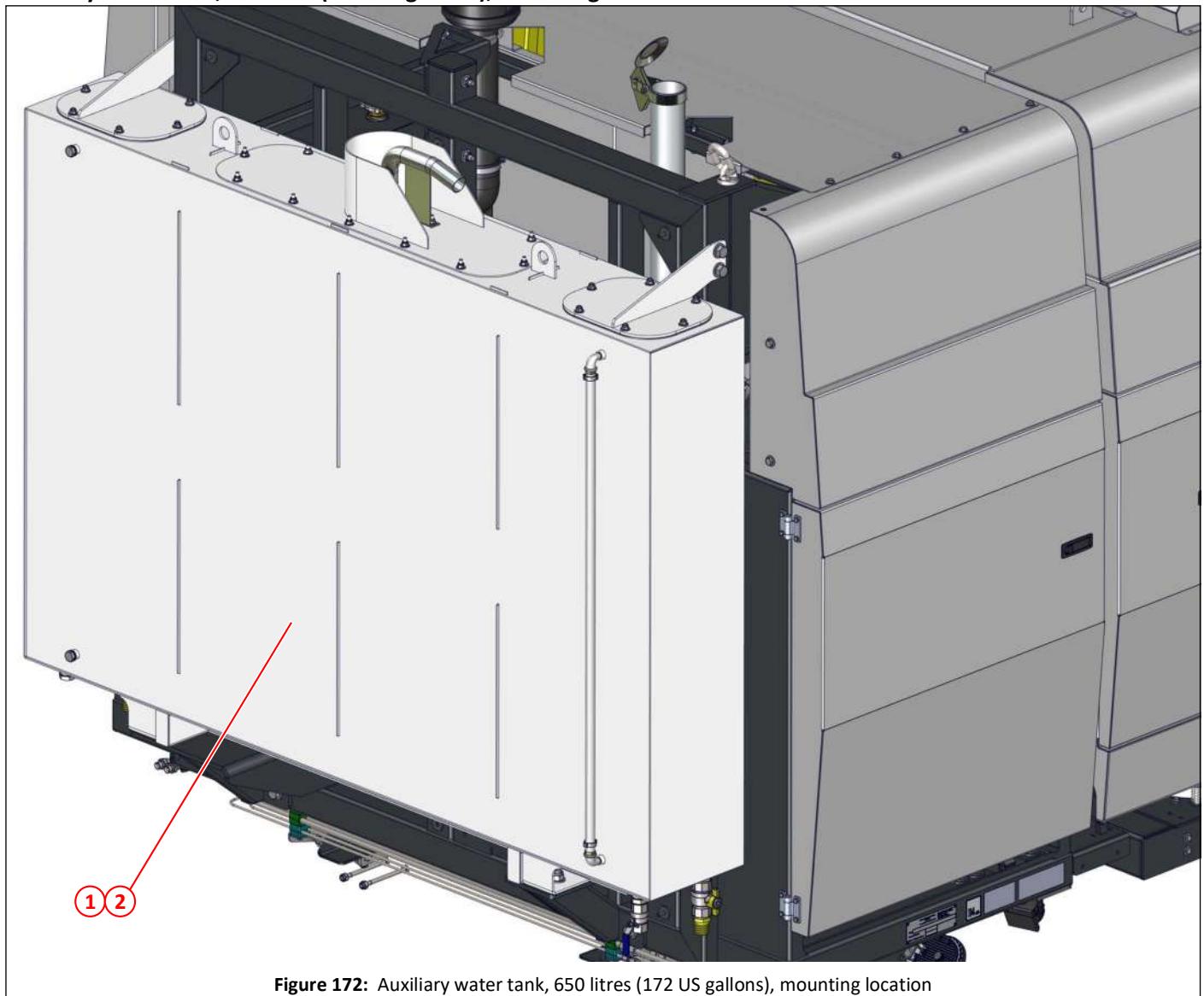


Figure 172: Auxiliary water tank, 650 litres (172 US gallons), mounting location

Item	Part No	Qty	Description	File
①	043134	1	Auxiliary water tank complete assembly without mounting brackets	
②	043104	1	Auxiliary water tank, just the tank with no fittings	

Auxiliary water tank, 650 litre (172 US gallons)

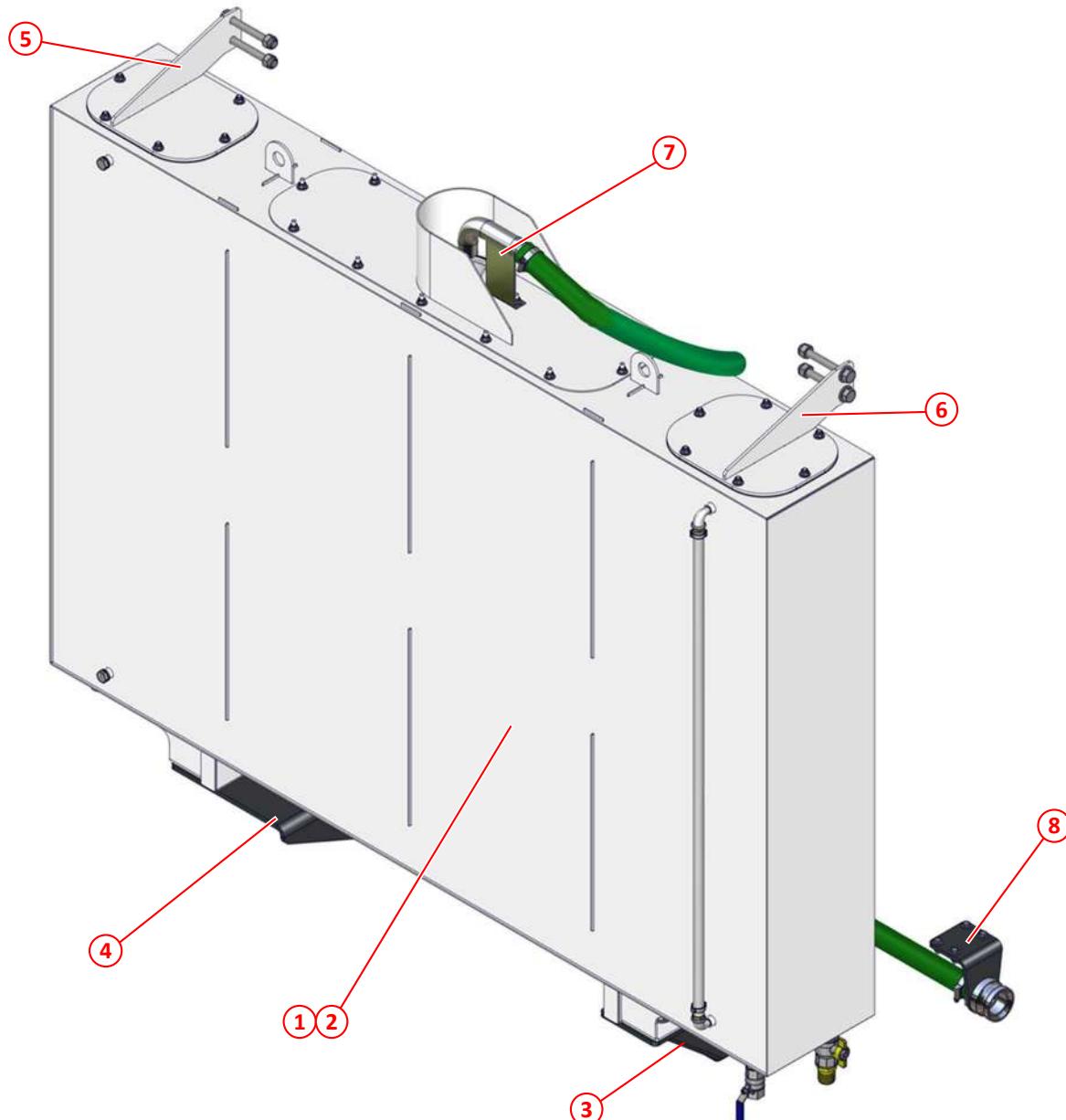
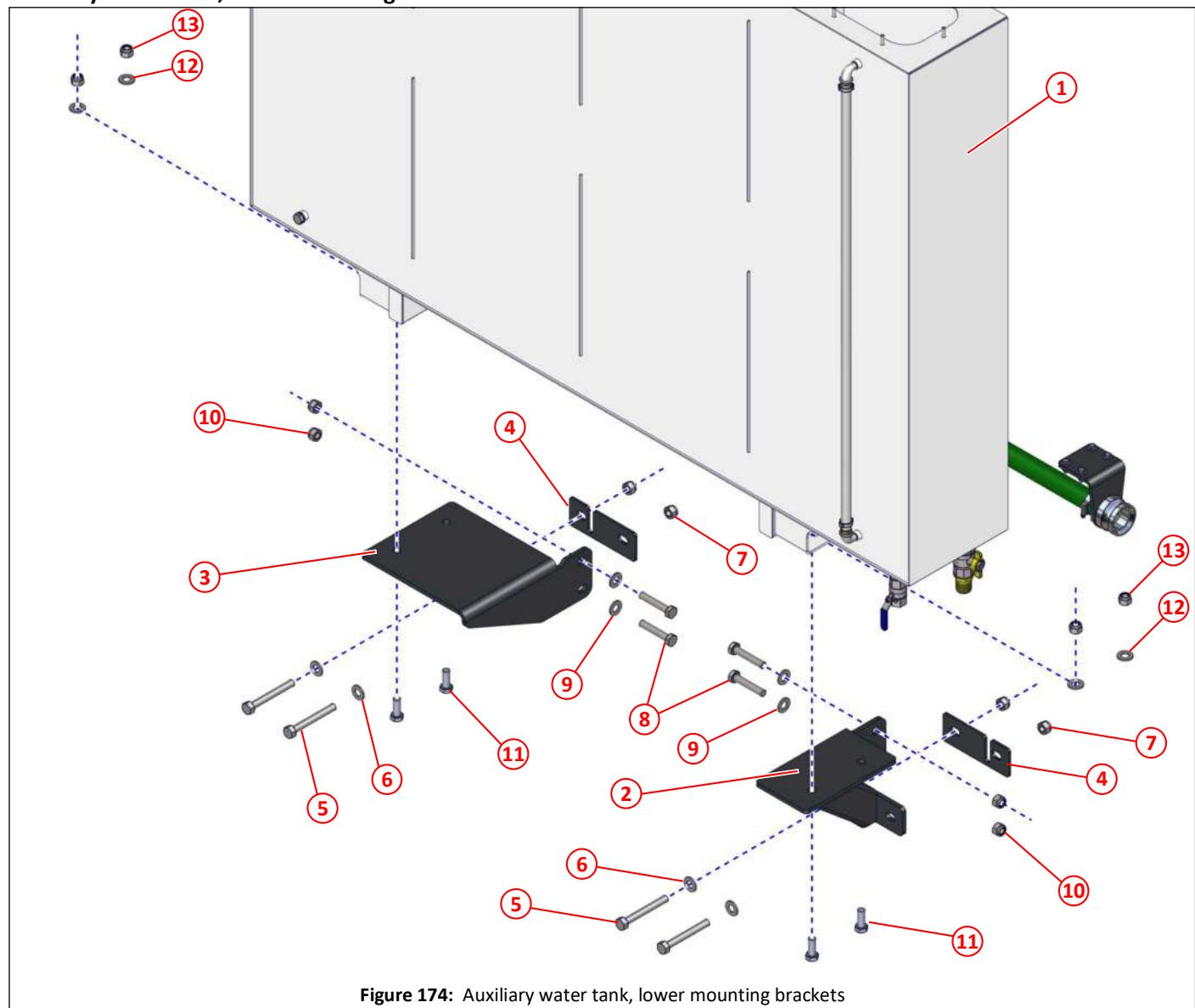


Figure 173: Auxiliary water tank, 650 litres (172 US gallons)

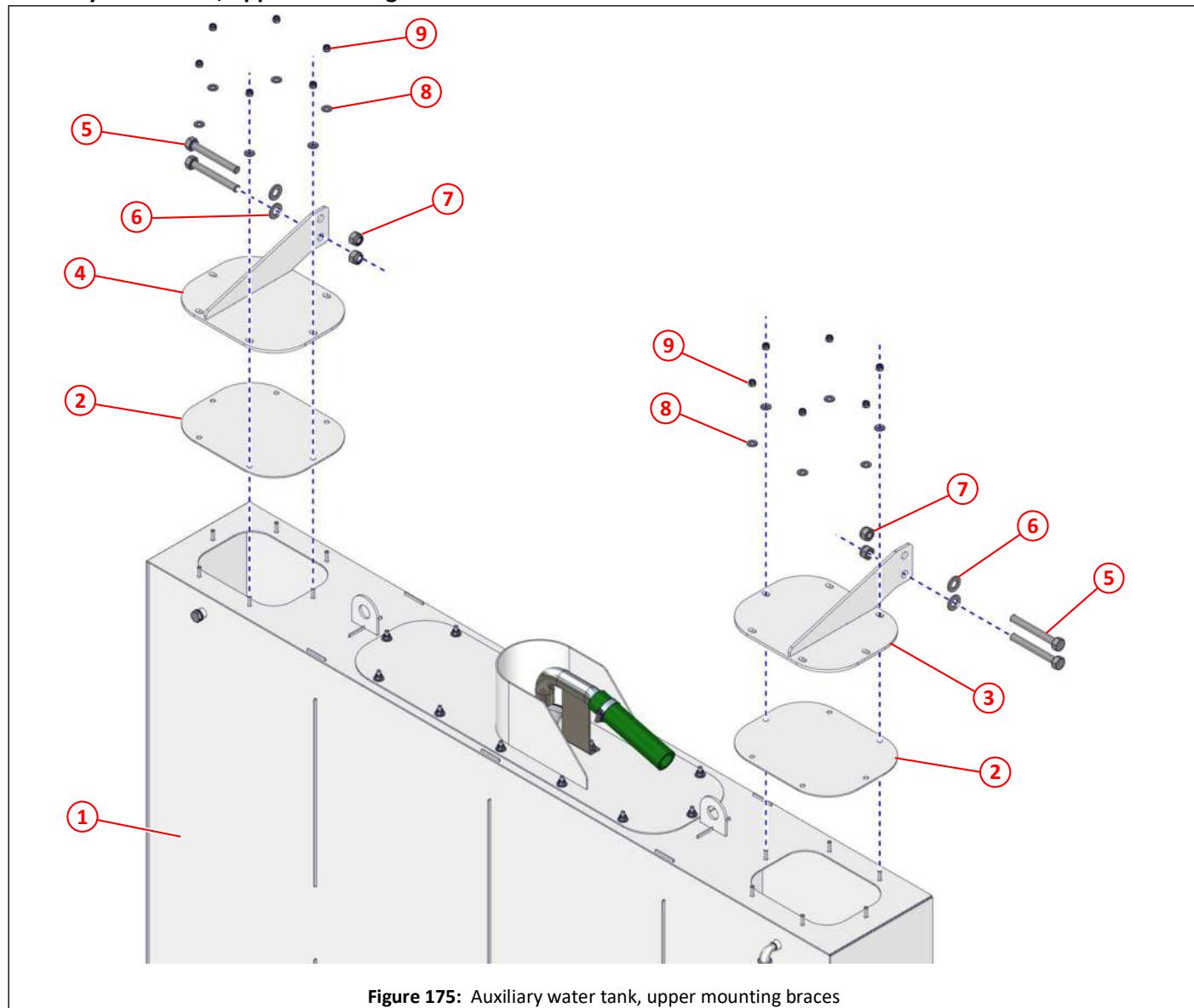
Item	Part No	Qty	Description
①	043134	1	Auxiliary water tank complete assembly without mounting brackets
②	043104	1	Auxiliary water tank, just the tank with no fittings
③	043135	1	Auxiliary water tank mounting bracket, left hand side
④	043136	1	Auxiliary water tank mounting bracket, right hand side
⑤	045153	1	Auxiliary water tank brace, right hand side
⑥	045154	1	Auxiliary water tank brace, left hand side
⑦	024586	1	Tank filler pipe
⑧			Hydrant filler

Auxiliary water tank, lower mounting brackets



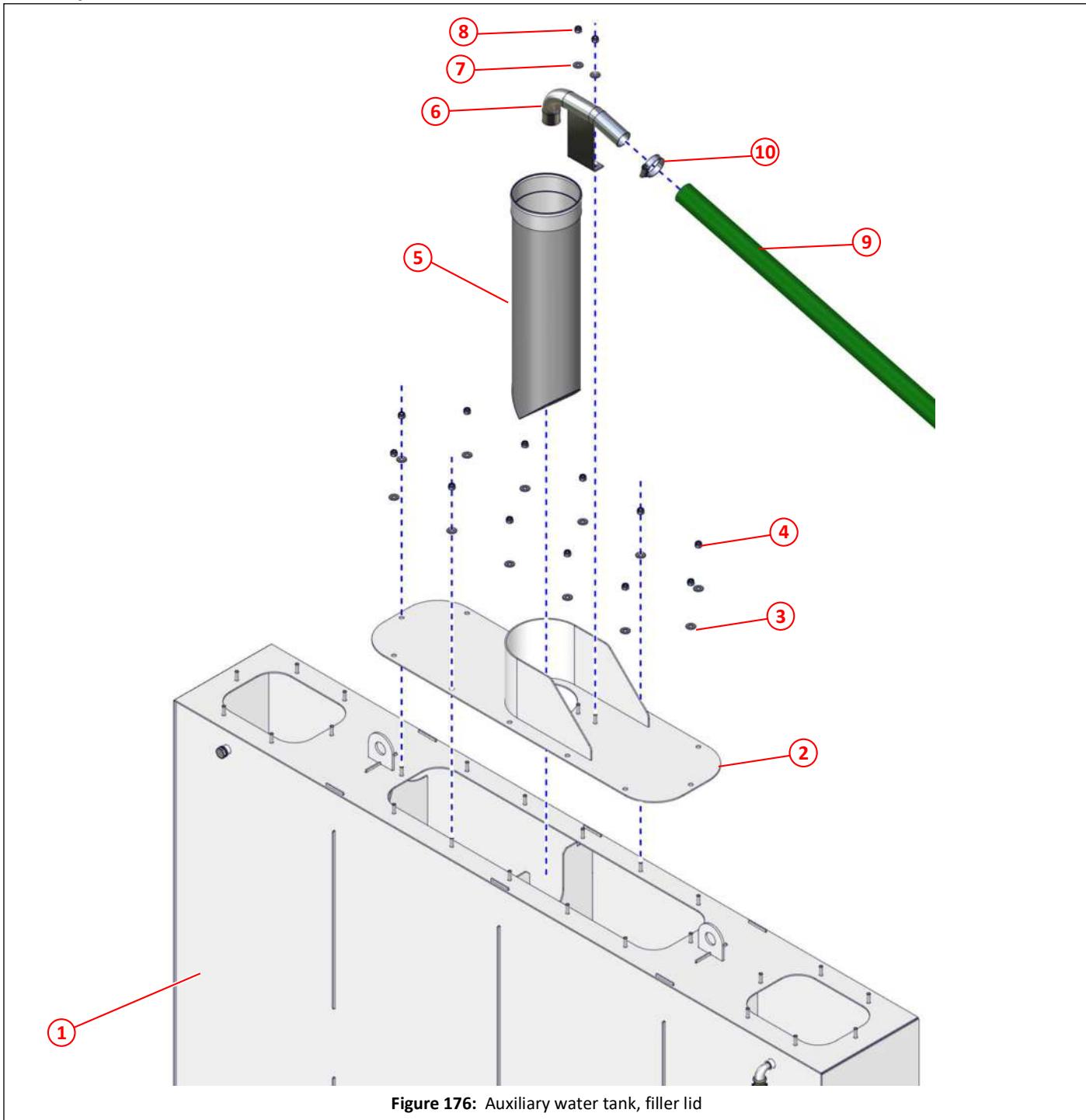
Item	Part No	Qty	Description
①	043104	1	Auxiliary water tank, just the tank with no fittings
②	043135	1	Auxiliary water tank mounting bracket, left hand side
③	043136	1	Auxiliary water tank mounting bracket, right hand side
④	045127	2	Auxiliary water tank plate
⑤	000184	4	Bolt M16 x 120, Grade 10.9
⑥	011135	4	Plain washer M16
⑦	011060	4	Nyloc nut M16
⑧	011261	4	Bolt M16 x 80
⑨	011135	4	Plain washer M16
⑩	011060	4	Nyloc nut M16
⑪	000386	4	Bolt M16 x 40 x 1.5 pitch
⑫	011135	4	Plain washer M16
⑬	011060	4	Nyloc nut M16

Auxiliary water tank, upper mounting braces



Item	Part No	Qty	Description
①	043104	1	Auxiliary water tank, just the tank with no fittings
②	039877	2	Small lid, auxiliary water tank
③	045153	1	Auxiliary water tank brace, right hand side
④	045154	1	Auxiliary water tank brace, left hand side
⑤	000184	4	Bolt M16 x 120, Grade 10.9
⑥	011135	4	Plain washer M16
⑦	011060	4	Nyloc nut M16
⑧	000264	12	Plain washer M8, stainless steel
⑨	000263	12	Nyloc nut M8, stainless steel
NI	020362	As req	Inseal strip 3 x 15. To be places under the lids.

Auxiliary water tank, filler lid



Item	Part No	Qty	Description
①	043104	1	Auxiliary water tank, just the tank with no fittings
②	045151	2	Centre lid, auxiliary water tank
③	000264	12	Plain washer M8, stainless steel
④	000263	12	Nyloc nut M8, stainless steel
⑤	032461	1	Water tank strainer
⑥	024586	1	Hydrant filler pipe
⑦	000264	2	Plain washer M8, stainless steel
⑧	000263	2	Nyloc nut M8, stainless steel
⑨	001045	As req	Hose, green medium duty, id 1 1/2"
⑩	003007	1	Hose clamp, worm drive, No. 2A ($\varnothing 35\text{-}\varnothing 50$)
NI	020362	As req	Inseal strip 3 x 15. To be places under the lid.

Auxiliary water tank, sight tube

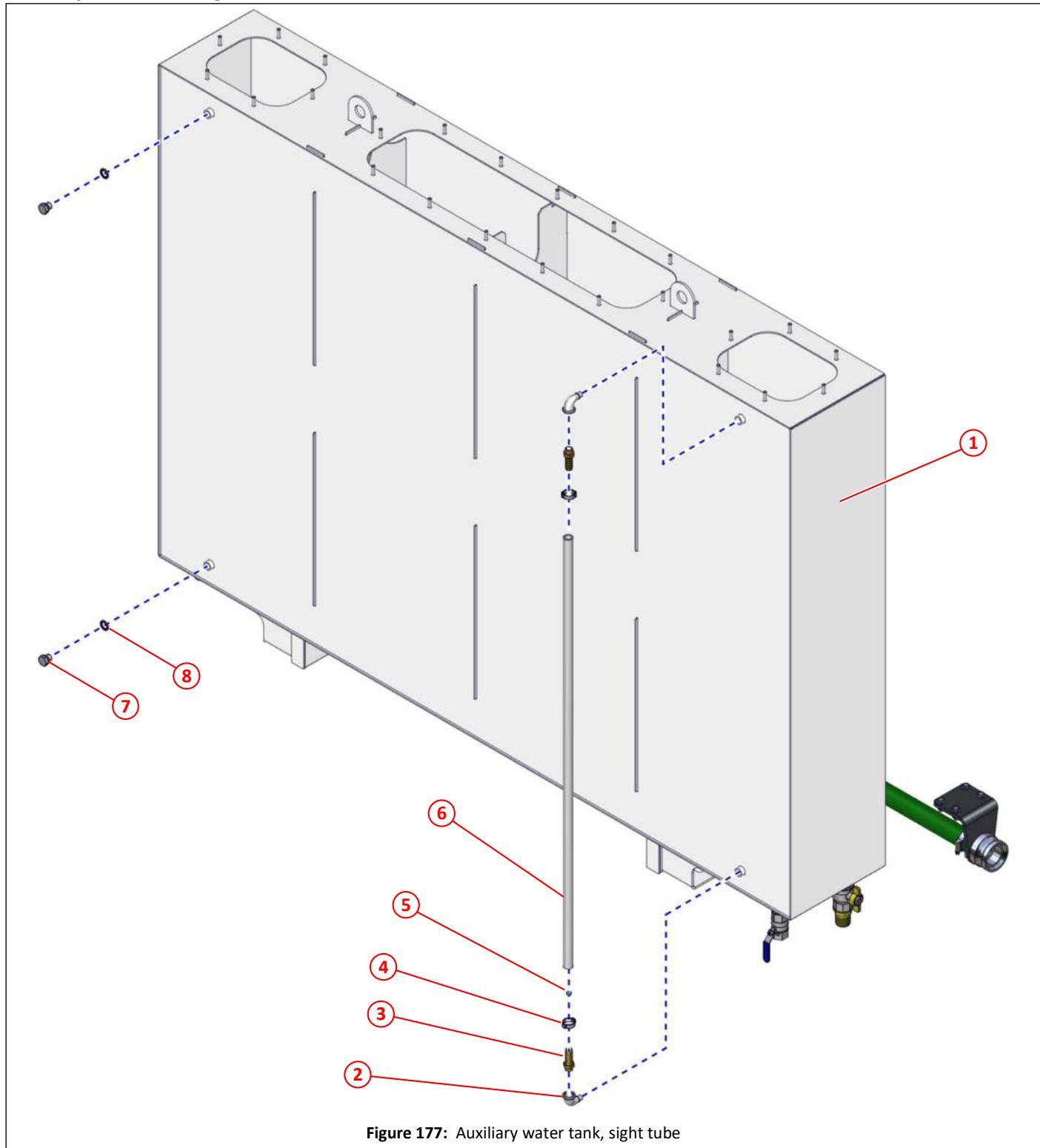


Figure 177: Auxiliary water tank, sight tube

Item	Part No	Qty	Description
①	043104	1	Auxiliary water tank, just the tank with no fittings
②	010913	2	Elbow, M/F, $\frac{3}{8}$ " BSP
③	010930	2	Adapter, $\frac{3}{8}$ " BSP x $\frac{5}{8}$ ", hose tail
④	000202	2	O-Clip $\frac{7}{8}$ "
⑤	025335	1	Ball, plastic, $\frac{1}{2}$ "
⑥	034465	1.5m	PVC tube, clear, $\frac{5}{8}$ "
⑦	011242	2	Plug, $\frac{3}{8}$ " BSP
⑧	011153	2	Dowty seal, $\frac{3}{8}$ " BSP

Auxiliary water tank, valve fittings

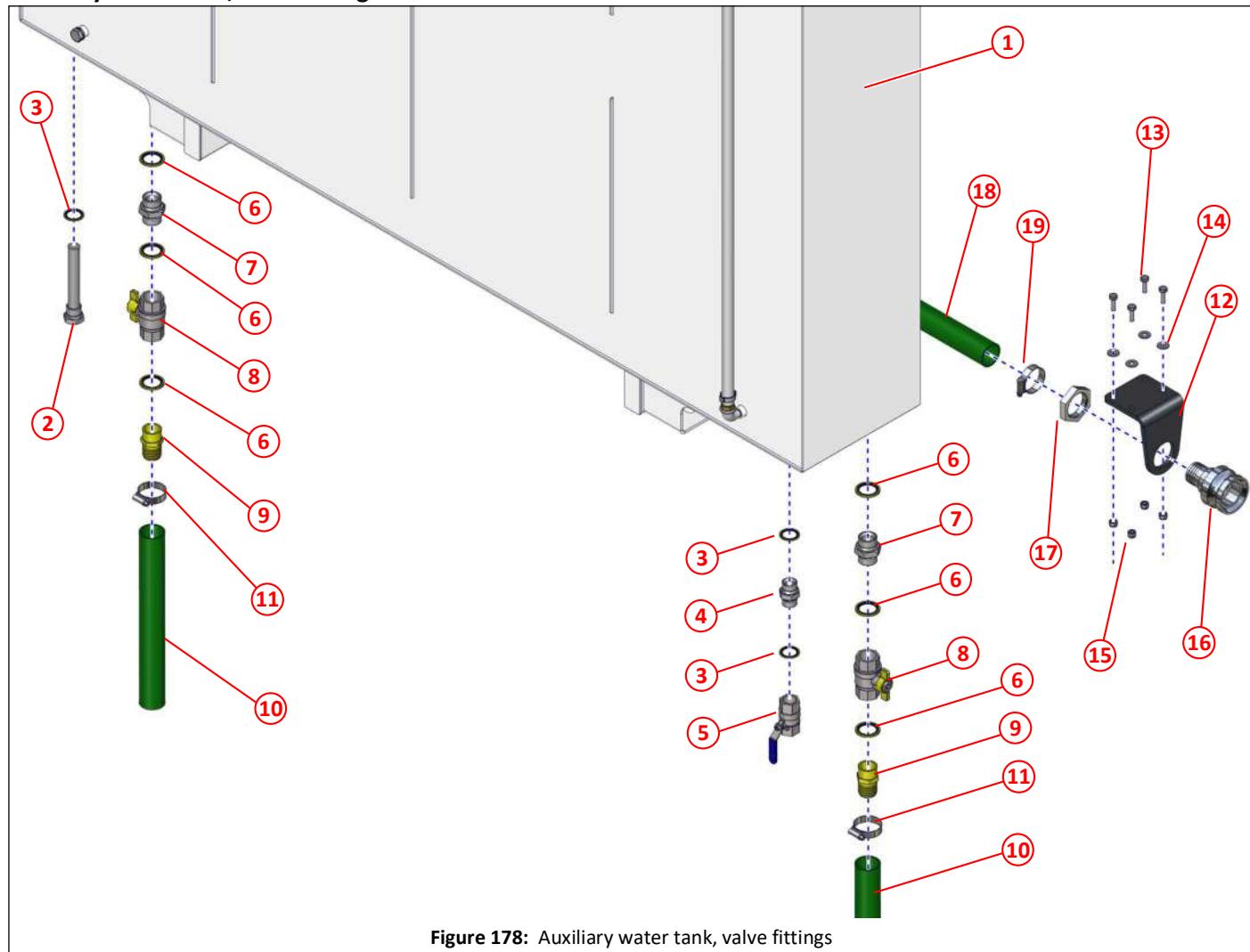


Figure 178: Auxiliary water tank, valve fittings

Item	Part No	Qty	Description
①	043104	1	Auxiliary water tank, just the tank with no fittings
②	012883	1	Sacrificial anode
③	011155	3	Dowty seal, $\frac{3}{4}$ " BSP
④	011161	1	Adapter, $\frac{3}{4}$ " BSP
⑤	013757	1	Valve, ball, $\frac{3}{4}$ " BSP
⑥	011156	6	Dowty seal, 1" BSP
⑦	011162	2	Adapter, 1" BSP
⑧	002050	2	Valve, ball, 1" BSP, low pressure
⑨	003029	2	Adapter, 1" BSP x $1\frac{1}{4}$ " hose tail
⑩	001077	As req	Hose, green, medium duty, id $1\frac{1}{4}$ "
⑪	003007	2	Hose clamp, worm drive, No. 2A ($\varnothing 35-\varnothing 50$)
⑫	039313	1	Adapter bracket
⑬	000257	4	Set screw M8 x 25, stainless steel
⑭	000264	4	Plain washer M8, stainless steel
⑮	000263		Nyloc nut M8, stainless steel
⑯	025140	1	Hydrant adapter
⑰	003026	1	Back nut, $1\frac{1}{2}$ " BSP
⑱	001045	As req	Hose, green medium duty, id $1\frac{1}{2}$ "
⑲	003007	2	Hose clamp, worm drive, No. 2A ($\varnothing 35-\varnothing 50$)

Water strainer, low pressure

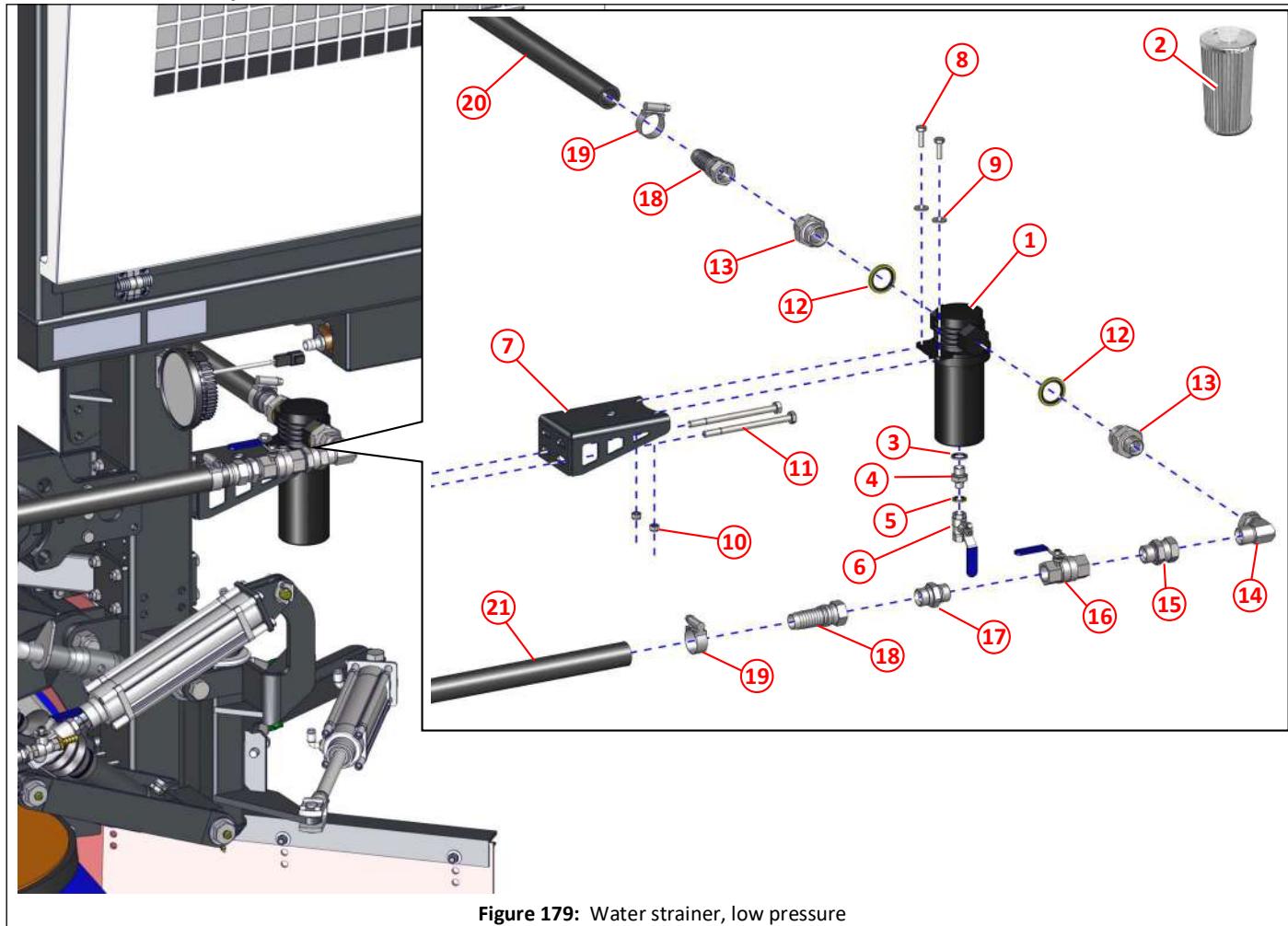


Figure 179: Water strainer, low pressure

Item	Part No	Qty	Description
①	023862	1	Water strainer, complete with filter element
②	023863	1	Filter element
③	011153	1	Dowty seal, $\frac{3}{8}$ " BSP
④	011199	1	Adapter, M/M, $\frac{3}{8}$ " BSP x $\frac{1}{4}$ " BSP
⑤	011152	1	Dowty seal, $\frac{1}{4}$ " BSP
⑥	011743	1	Valve, ball, $\frac{1}{4}$ " BSP
⑦	043086	1	Bracket, water strainer
⑧	011011	2	Set screw M8 x 25
⑨	011092	2	Plain washer M8
⑩	011073	2	Nyloc nut M8
⑪	000041	2	Bolt M10 x 140, part of low pressure water pump mounting
⑫	011156	2	Dowty seal 1" BSP
⑬	011193	2	Adapter, 1" BSP x $\frac{3}{4}$ " BSP
⑭	011174	1	Elbow, swivel, $\frac{3}{4}$ " BSP
⑮	012228	1	Adapter, swivel, M/F, $\frac{3}{4}$ " BSP
⑯	013757	1	Valve, ball, $\frac{3}{4}$ " BSP
⑰	011161	1	Adapter, $\frac{3}{4}$ " BSP
⑱	002084	2	Adapter, $\frac{3}{4}$ " BSP x 1" hose tail
⑲	010518	2	Hose clamp, worm drive, No. 1X (ϕ 30- ϕ 40)
⑳	010959	As req	Hose, 1", to water filter (to low pressure water pump)
㉑	010959	As req	Hose, 1", to water filter (from water tank)

Water pump, twin diaphragm, low pressure, mounting

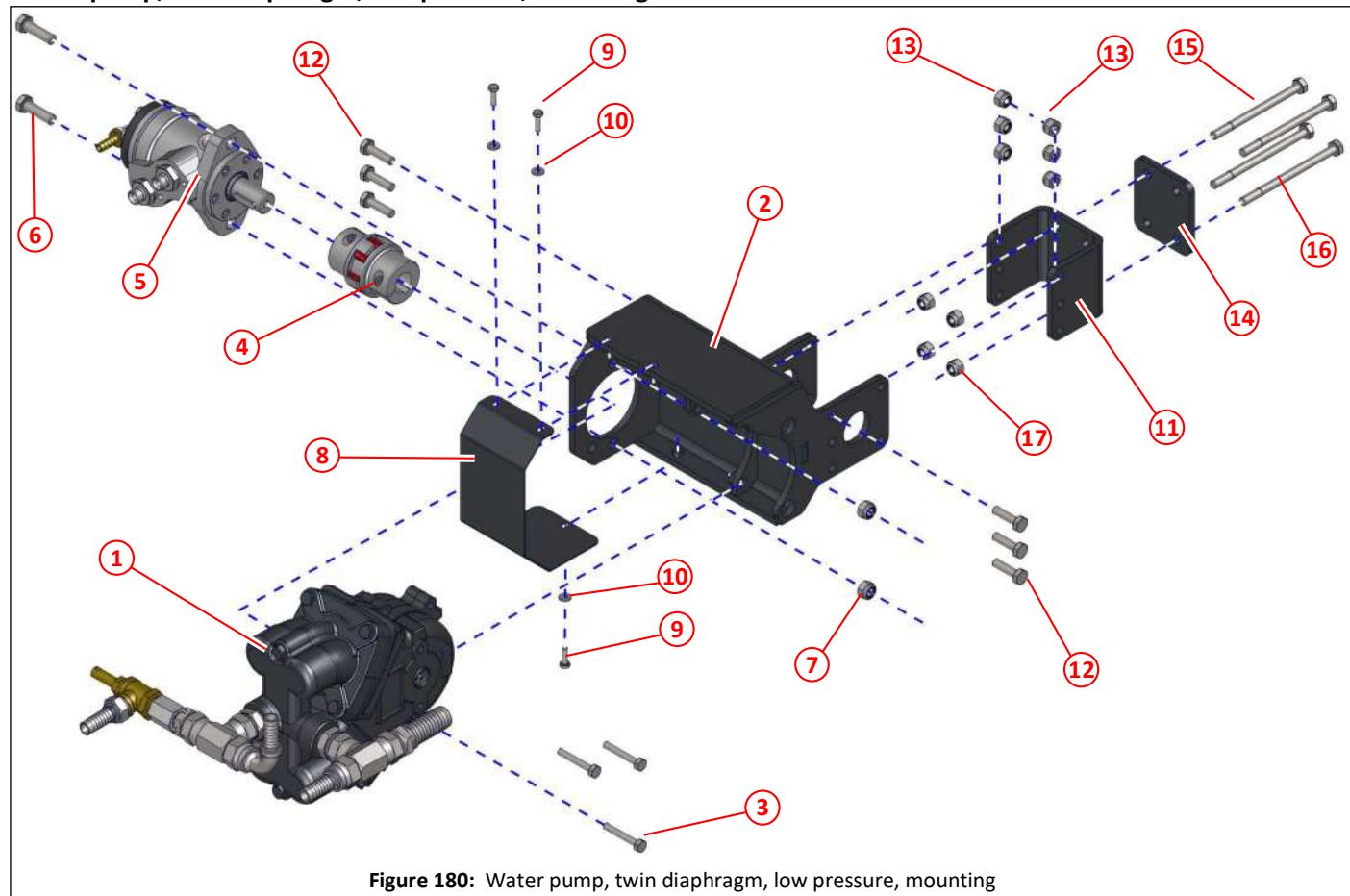
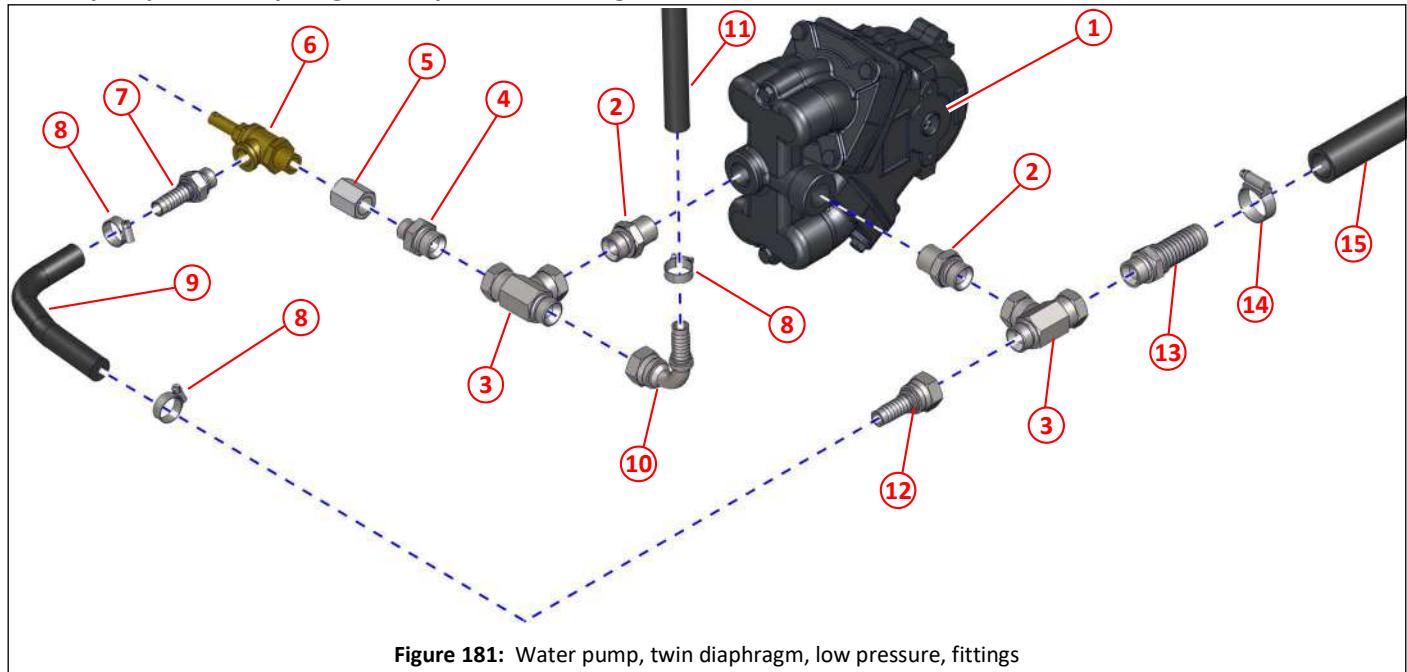


Figure 180: Water pump, twin diaphragm, low pressure, mounting

Item	Part No	Qty	Description	
①	010208	1	Water pump, twin diaphragm, low pressure	
②	045029	1	Mounting bracket, water pump, low pressure	
③	011016	3	Set screw M8 x 50	
④	043779	1	Coupling, water pump	
⑤	043778	1	Hydraulic motor 40cc	278
⑥	011069	2	Bolt M12 x 40	
⑦	011077	2	Nyloc nut M12	
⑧	044186	1	Cover, coupling	
⑨	011067	3	Set screw M6 x 20	
⑩	011090	3	Plain washer M6	
⑪	045030	1	Adapter plate	
⑫	011033	6	Set screw M10 x 35	
⑬	011075	6	Nyloc nut M10	
⑭	045031	1	Spreader plate	
⑮	000075	2	Bolt M10 x 130	
⑯	000041	2	Bolt M10 x 140	
⑰	011075	4	Nyloc nut M10	

Water pump, twin diaphragm, low pressure, fittings



Item	Part No	Qty	Description
①	010208	1	Water pump, twin diaphragm, low pressure
②	002245	2	Adapter, M/M, $\frac{3}{4}$ " BSPP x $\frac{3}{4}$ " BSPT
③	002233	2	Tee, M/F/F, nuts on branch, $\frac{3}{4}$ " BSP
④	011166	1	Adapter, $\frac{3}{4}$ " BSP x $\frac{1}{2}$ " BSP
⑤	010900	1	Socket $\frac{1}{2}$ " BSP
⑥	045532	1	Valve, pressure regulating (13.8 bar)
⑦	002159	1	Adapter, male $\frac{3}{4}$ " BSPP x $\frac{5}{8}$ " hose tail
⑧	010517	3	Hose clamp, worm drive, No. 0X (ϕ 18- ϕ 25)
⑨	011000	As req	Hose, $\frac{5}{8}$ ", pressure relief
⑩	001145	1	Elbow, female $\frac{3}{4}$ " BSP x $\frac{5}{8}$ " hose tail
⑪	011000	As req	Hose, $\frac{5}{8}$ ", to water valves
⑫	001144	1	Adapter, female $\frac{3}{4}$ " BSPP x $\frac{5}{8}$ " hose tail
⑬	002252	1	Adapter, male $\frac{3}{4}$ " BSPP x 1" hose tail
⑭	010518	1	Hose clamp, worm drive, No. 1X (ϕ 30- ϕ 40)
⑮	010959	As req	Hose 1", from water strainer, low pressure

Water pump, twin diaphragm, low pressure, components

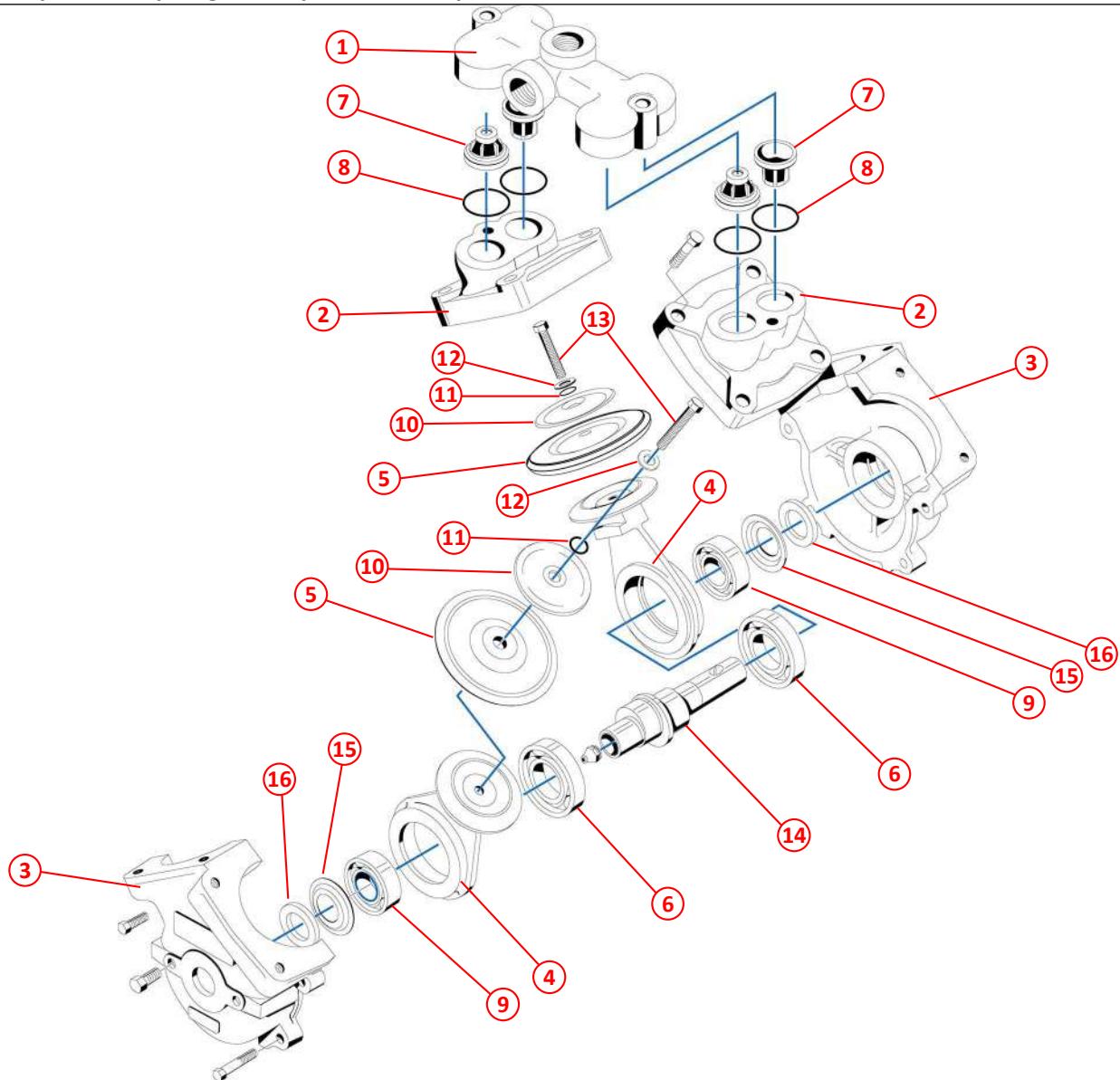
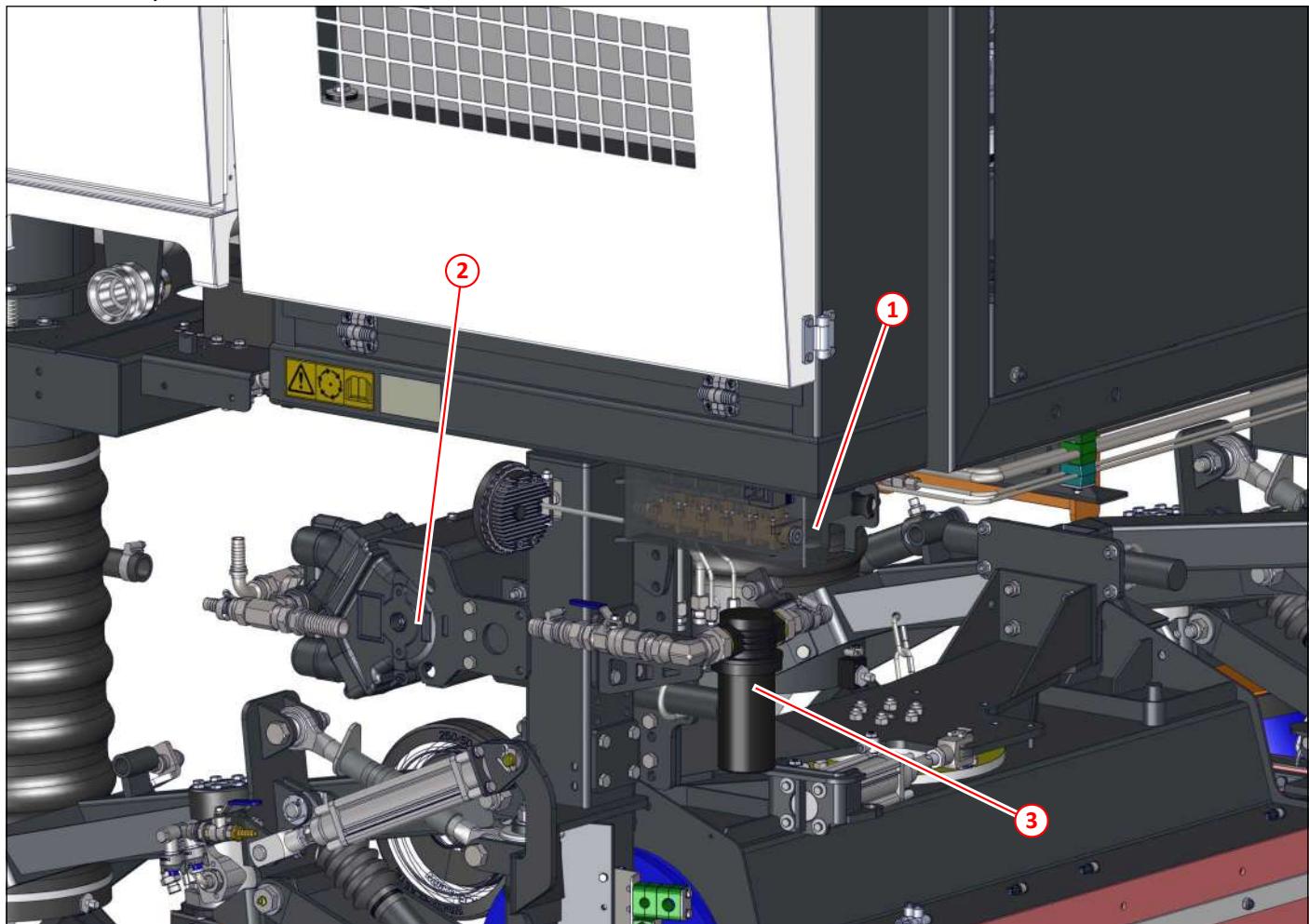


Figure 182: Water pump, low pressure, components

Item	Part No	Qty	Description
①	020460	1	Pump bridge, valve chamber
②	020463	2	Pump head, diaphragm cover
③	020461	2	Pump crankcase
④	014682	2	Connecting rod
⑤	013629	2	Diaphragm
⑥	TBC	2	Bearing, ball
⑦	013627	4	Poppet valve
⑧	013628	4	Sealing ring
⑨	TBC	2	Bearing, ball
⑩	014882	2	Diaphragm upper
⑪	031560	2	Seal
⑫	031561	2	Washer
⑬	TBC	2	Bolt
⑭	TBC	1	Pump eccentric
⑮	014881	2	Retainer
⑯	014879	2	Felt washer
⑰	010903	1	Grease nipple, $\frac{1}{8}$ " straight

Water valves, location



 Cover of the water valves ghosted.

Figure 183: Water valves, location

Item	Part No	Qty	Description	
①			Water valves	219,221,222,223,224
②		1	Water pump, twin diaphragm, low pressure	215
③		1	Water strainer, complete with filter element	214

Water valves, 2-way, mounting

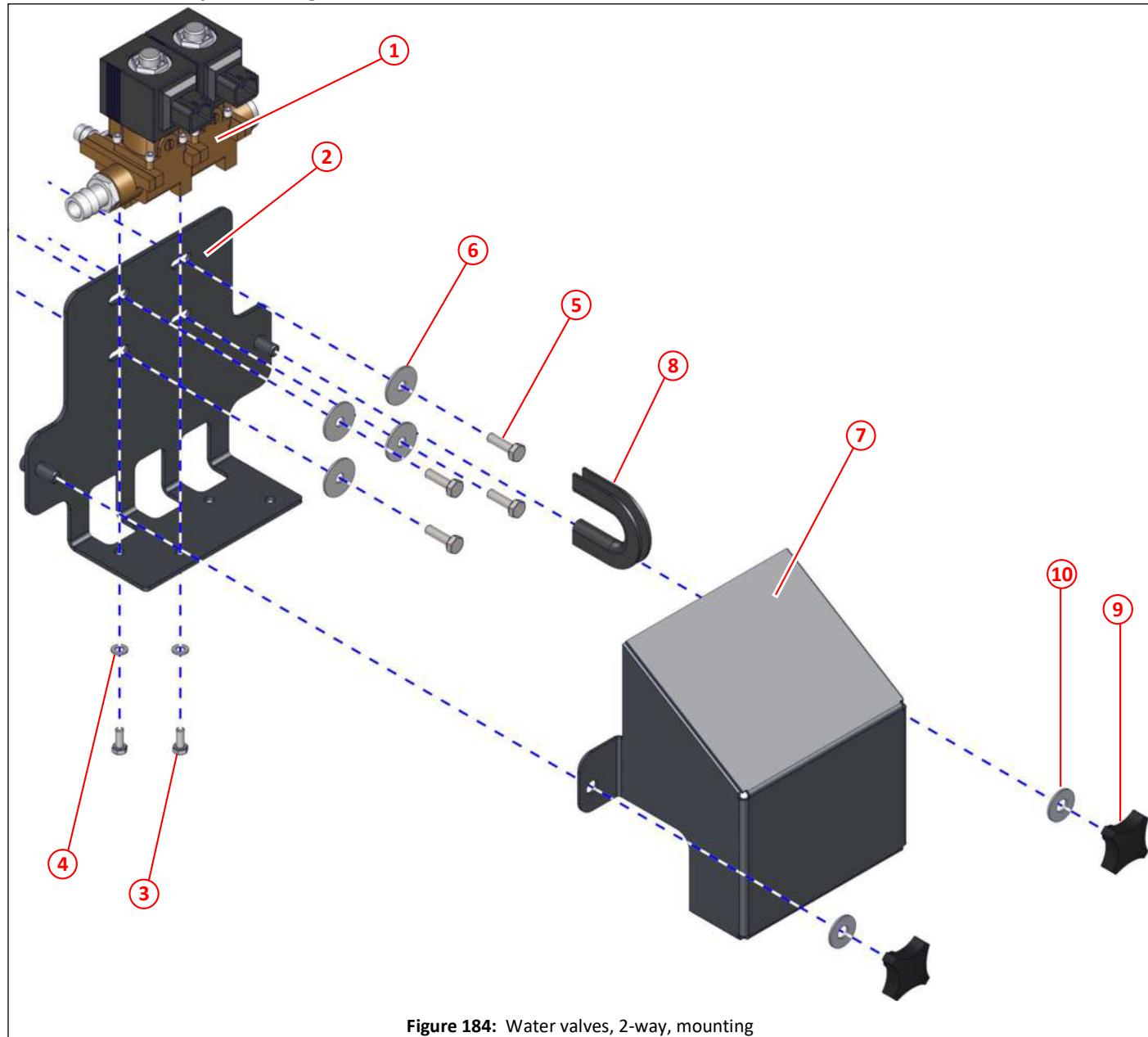


Figure 184: Water valves, 2-way, mounting

Item	Part No	Qty	Description	
①	043113	1	Water valve, 2 valve assembly, 24v	224
①	TBA	1	Water valve, 2 valve assembly, 12v	224
②	038384	1	Mounting bracket, water valves	
③	000097	2	Bolt M5 x 12	
④	000410	2	Plain washer M5	
⑤	011067	4	Set screw M6 x 20	
⑥	011099	4	Repair washer $\phi\frac{1}{4}'' \times \phi1''$	
⑦	043366	1	Cover, water valves	
⑧	005073	As req	Titanfast edging MET106 to suit 3-5mm	
⑨	000248	2	Grip nut M8	
⑩	011092	2	Plain washer M8	

Water valves, 3-way, mounting

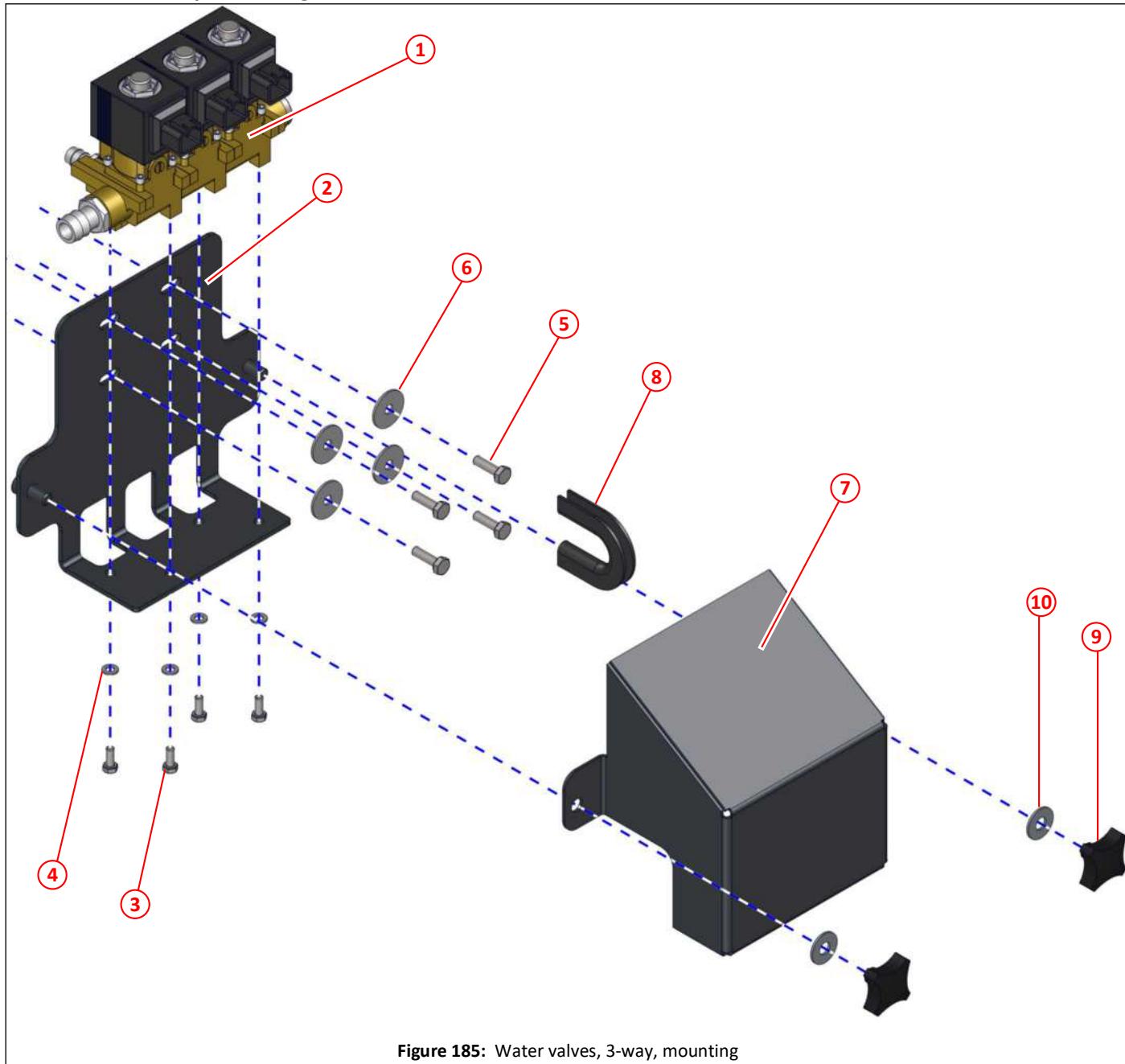


Figure 185: Water valves, 3-way, mounting

Item	Part No	Qty	Description	
①	038370	1	Water valve, 3 valve assembly, 24v	224
①	038369	1	Water valve, 3 valve assembly, 12v	224
②	038384	1	Mounting bracket, water valves	
③	000097	4	Bolt M5 x 12	
④	000410	4	Plain washer M5	
⑤	011067	4	Set screw M6 x 20	
⑥	011099	4	Repair washer $\varnothing \frac{1}{4}''$ x $\varnothing 1''$	
⑦	043366	1	Cover, water valves	
⑧	005073	As req	Titanfast edging MET106 to suit 3-5mm	
⑨	000248	2	Grip nut M8	
⑩	011092	2	Plain washer M8	

Water valves, 4-way, mounting

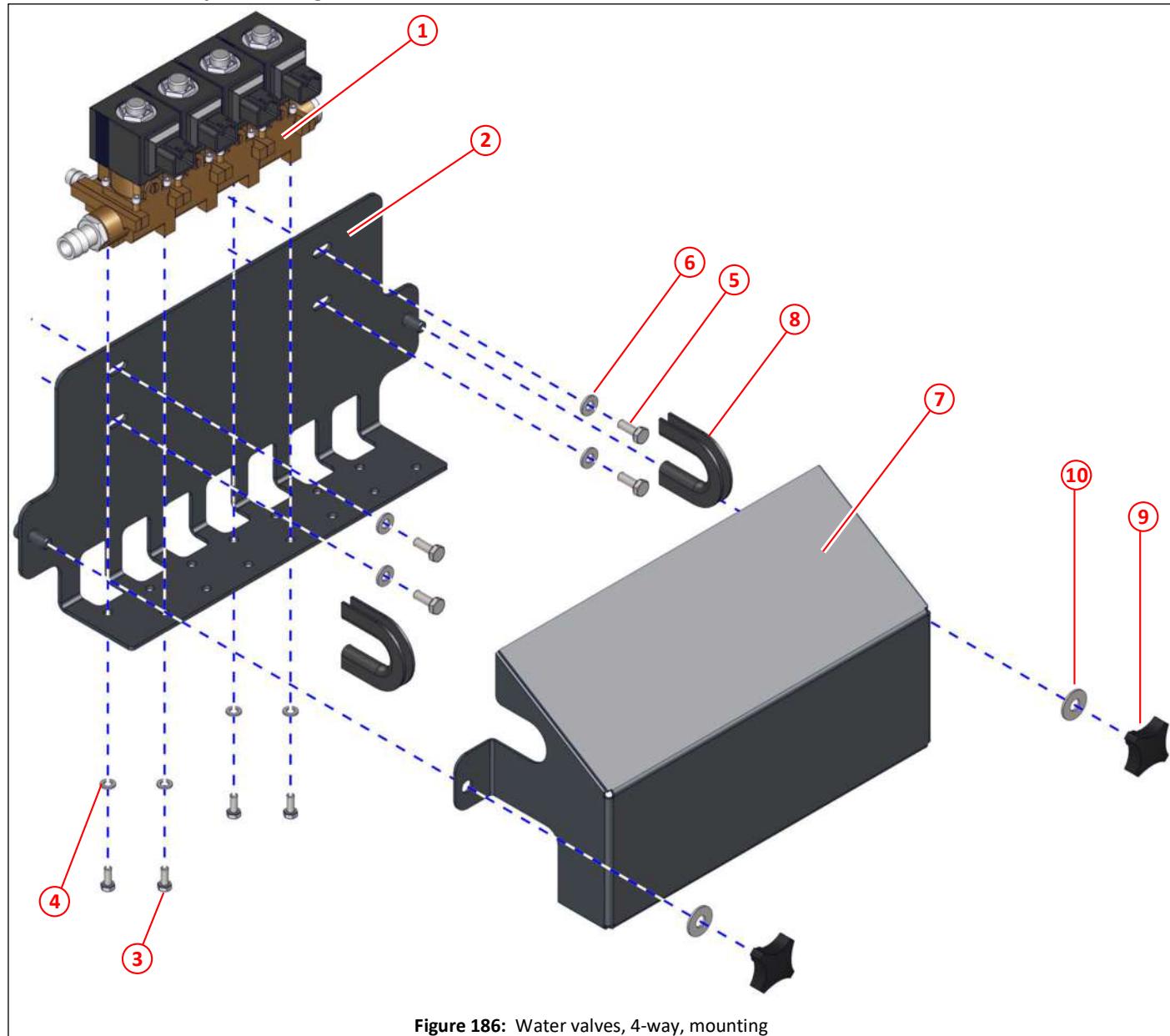
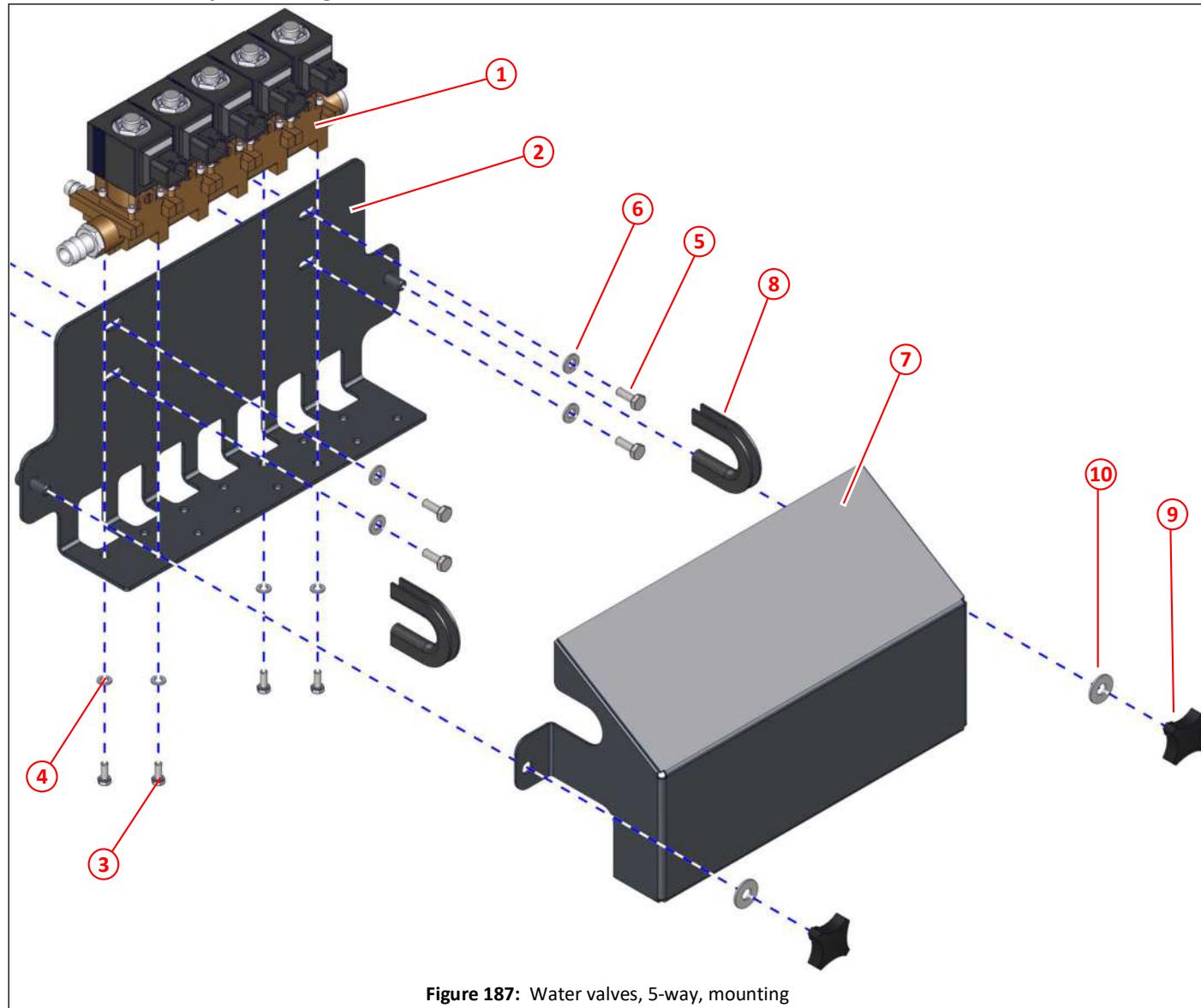


Figure 186: Water valves, 4-way, mounting

Item	Part No	Qty	Description	
①	043641	1	Water valve, 4 valve assembly, 24v	224
①	044662	1	Water valve, 4 valve assembly, 12v	224
②	043365	1	Mounting bracket, water valves	
③	000097	4	Bolt M5 x 12	
④	000410	4	Plain washer M5	
⑤	011001	4	Set screw M6 x 16	
⑥	011090	4	Plain washer M6	
⑦	043366	1	Cover, water valves	
⑧	005073	As req	Titanfast edging MET106 to suit 3-5mm	
⑨	000248	2	Grip nut M8	
⑩	011092	2	Plain washer M8	

Water valves, 5-way, mounting



Item	Part No	Qty	Description	
①	043642	1	Water valve, 5 valve assembly, 24v	224
①	044493	1	Water valve, 5 valve assembly, 12v	224
②	043365	1	Mounting bracket, water valves	
③	000097	4	Bolt M5 x 12	
④	000410	4	Plain washer M5	
⑤	011001	4	Set screw M6 x 16	
⑥	011090	4	Plain washer M6	
⑦	043366	1	Cover, water valves	
⑧	005073	As req	Titanfast edging MET106 to suit 3-5mm	
⑨	000248	2	Grip nut M8	
⑩	011092	2	Plain washer M8	

Water valves, 6-way, mounting

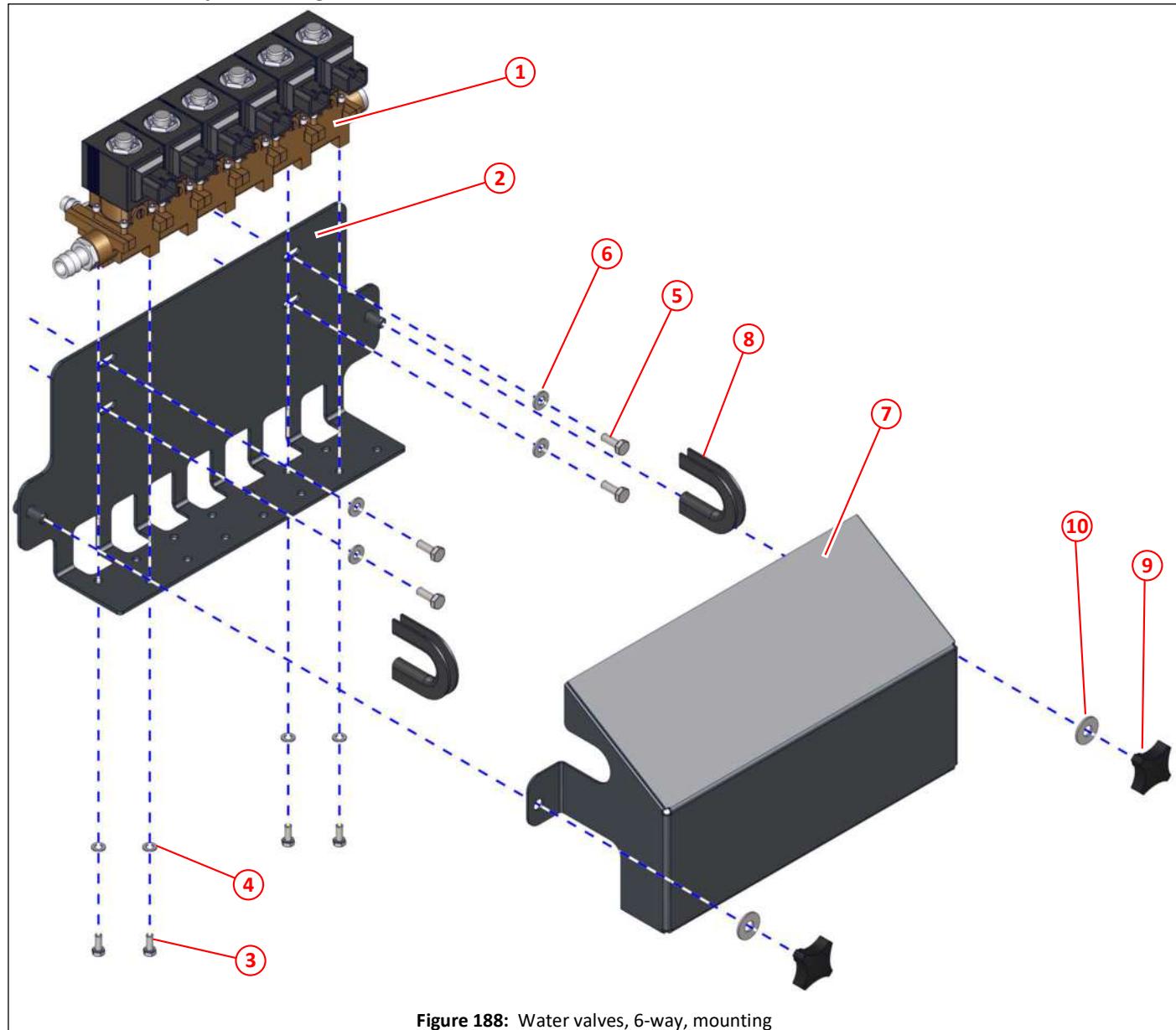
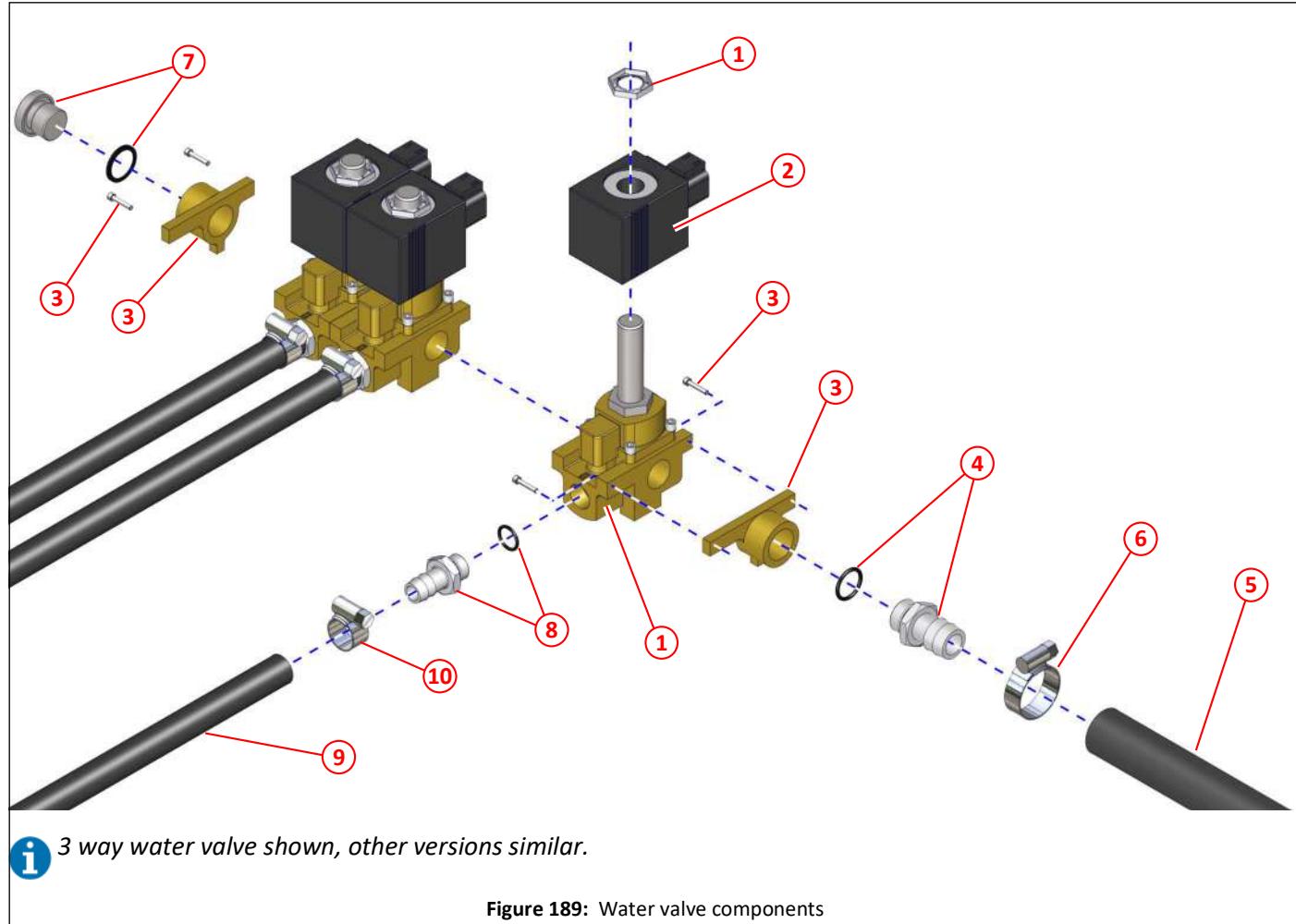


Figure 188: Water valves, 6-way, mounting

Item	Part No	Qty	Description	
①	043643	1	Water valve, 6 valve assembly, 24v	224
①	TBA	1	Water valve, 6 valve assembly, 12v	224
②	043365	1	Mounting bracket, water valves	
③	000097	4	Bolt M5 x 12	
④	000410	4	Plain washer M5	
⑤	011001	4	Set screw M6 x 16	
⑥	011090	4	Plain washer M6	
⑦	043366	1	Cover, water valves	
⑧	005073	As req	Titanfast edging MET106 to suit 3-5mm	
⑨	000248	2	Grip nut M8	
⑩	011092	2	Plain washer M8	

Water valve components



Item	Part No	Qty	Description
①	037969	As req	Water solenoid valve, Deutsch connector, includes item ②, 24v
①	038368	As req	Water solenoid valve, Deutsch connector, includes item ②, 12v
②	037059	As req	Coil, 8 watt, Deutsch connector, 24v
②	038371	As req	Coil, 8 watt, Deutsch connector, 12v
③	045753	1	Service kit, water valve, includes end pieces, screws and o-rings
④	TBC *	1	Adapter $\frac{3}{8}$ " BSP x 17mm hose tail, with rubber seal
⑤	011000	As req	Hose $\frac{5}{8}$ "
⑥	010517	1	Hose clamp, worm drive, No. 0X ($\varnothing 18\text{mm}$ - $\varnothing 25\text{mm}$)
⑦	TBC †	1	Plug $\frac{3}{8}$ " BSP, with rubber seal
⑧	TBC ‡	1	Adapter $\frac{1}{4}$ " BSP x 12mm hose tail, with rubber seal
⑨	010950	As req	Hose $\frac{3}{8}$ "
⑩	010516	1	Hose clamp, worm drive, No. M00 ($\varnothing 11\text{mm}$ - $\varnothing 16\text{mm}$)

*. Use 010930 Adapter $\frac{3}{8}$ " BSP x $\frac{5}{8}$ " hose tail and 011153 Dowty seal $\frac{3}{8}$ " BSP as an alternative

†. Use 011242 Plug $\frac{3}{8}$ " BSP and 011153 Dowty seal $\frac{3}{8}$ " BSP as an alternative

‡. Use 010922 Adapter $\frac{1}{4}$ " BSP x $\frac{3}{8}$ " hose tail and 011152 Dowty seal $\frac{1}{4}$ " BSP as an alternative

Water spray nozzle, twin, left hand side brush

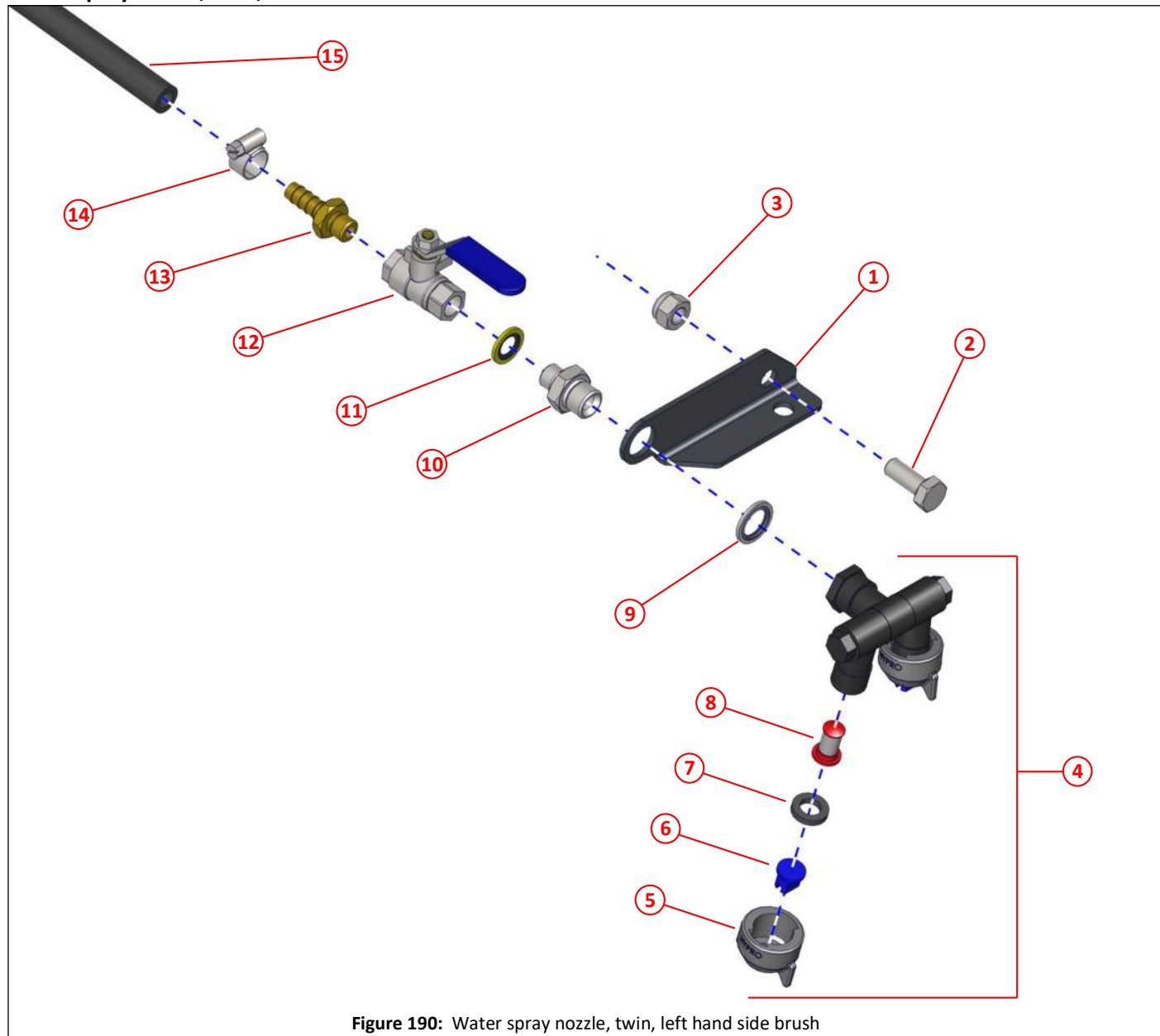


Figure 190: Water spray nozzle, twin, left hand side brush

Item	Part No	Qty	Description
①	036042	1	Nozzle bracket, twin nozzles, side brush, for left hand side
②	011031	1	Set screw M10 x25
③	011075	1	Nyloc nut M10
④	036044	1	Double swivel nozzle assembly
⑤	030635	1	Cone nozzle cap, per nozzle
⑥	030748	1	Jet (blue), per nozzle
⑦	030636	1	Rubber washer, per nozzle
⑧	030633	1	Filter, 100 mesh, per nozzle
⑨	011153	1	Dowty seal $\frac{3}{8}$ " BSP
⑩	011199	1	Adapter $\frac{3}{8}$ " x $\frac{1}{4}$ " BSP
⑪	011152	1	Dowty seal $\frac{1}{4}$ " BSP
⑫	011743	1	Valve, ball, $\frac{1}{4}$ " BSP
⑬	010922	1	Adapter $\frac{1}{4}$ " BSP x $\frac{3}{8}$ " hose tail
⑭	010516	1	Hose clamp, worm drive, No. M00 (\varnothing 11mm- \varnothing 16mm)
⑮	010950	As req	Hose $\frac{3}{8}$ "

Water spray nozzle, twin, right hand side brush

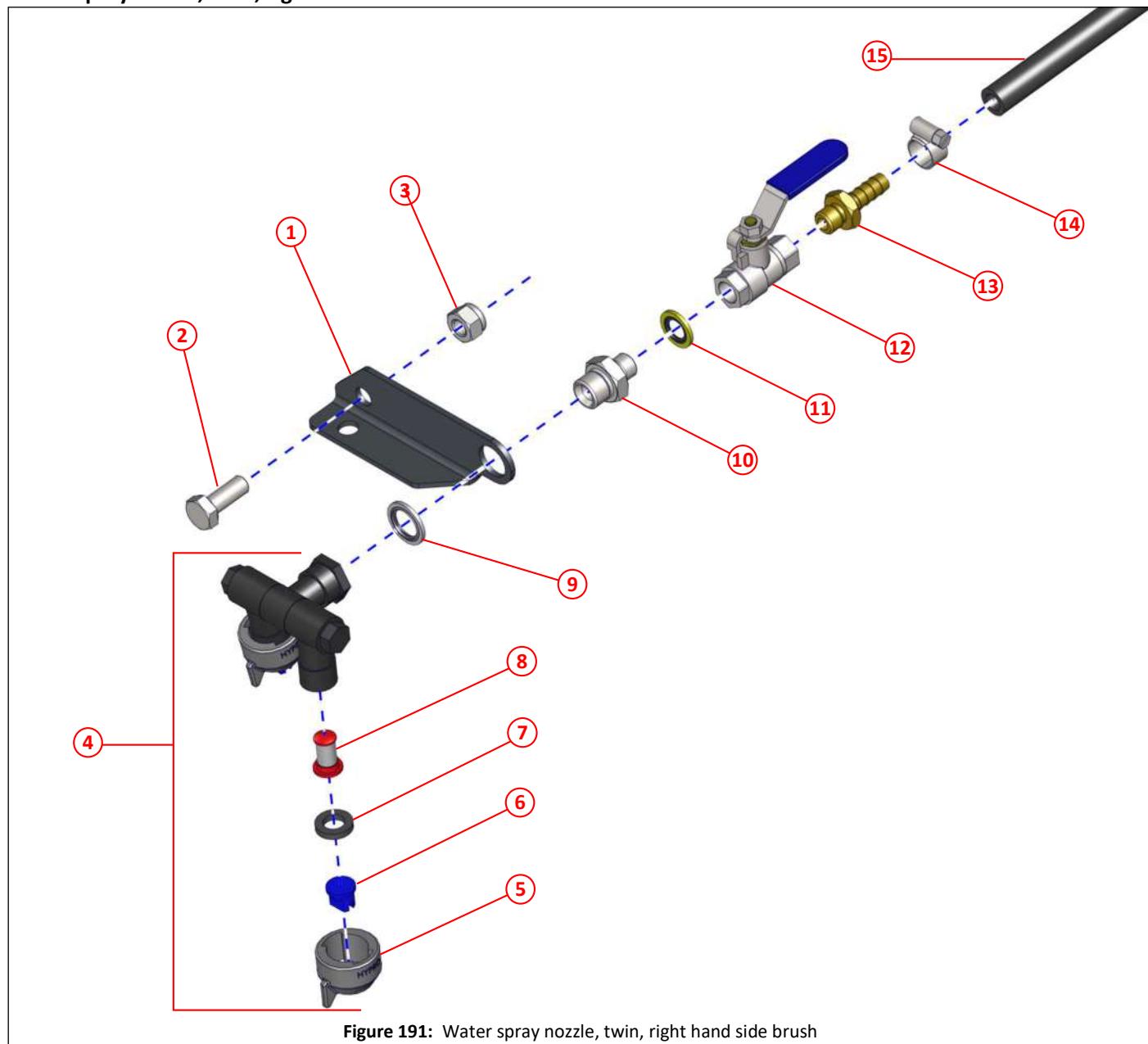
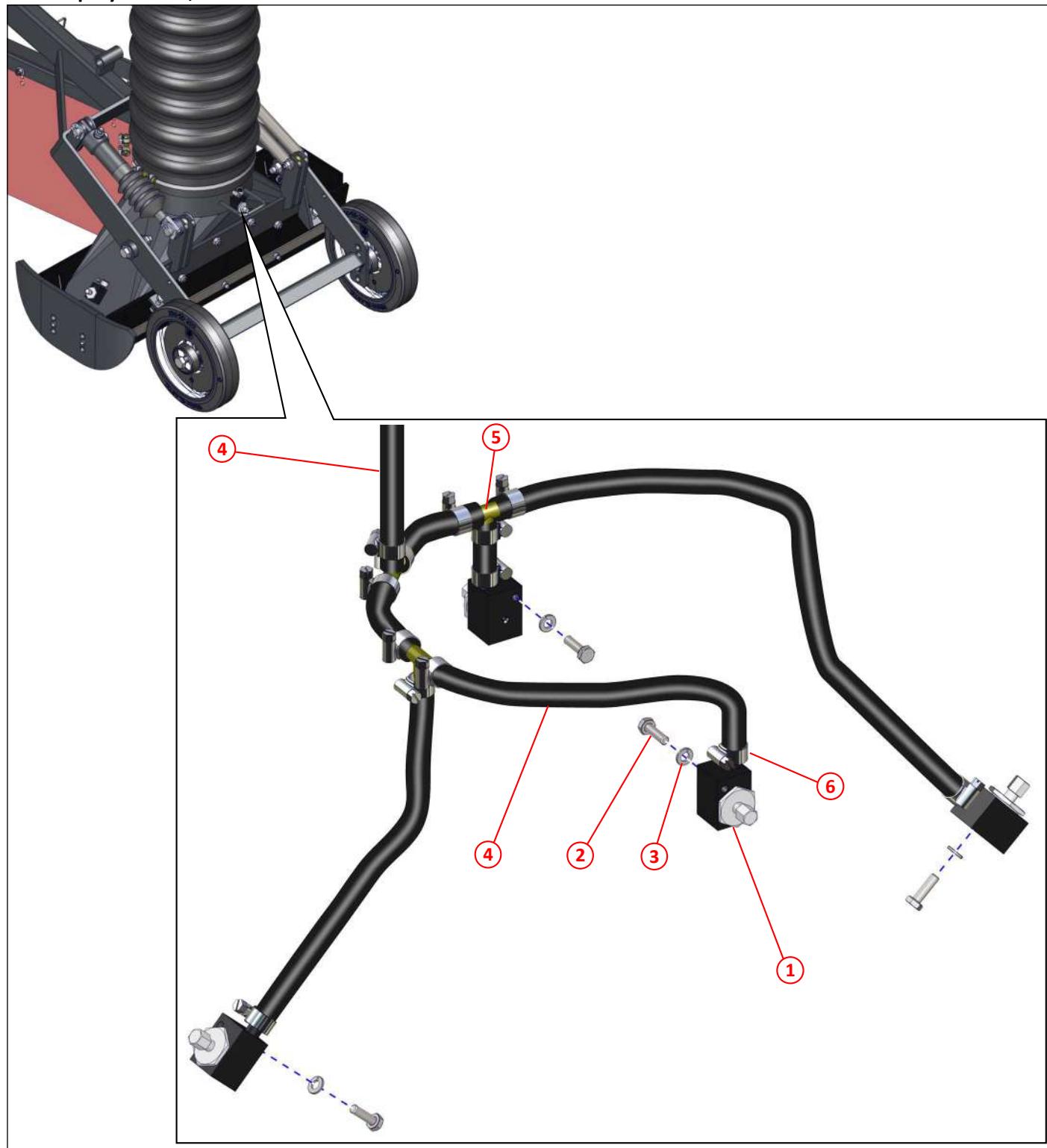


Figure 191: Water spray nozzle, twin, right hand side brush

Item	Part No	Qty	Description
①	036043	1	Nozzle bracket, twin nozzles, side brush, for right hand side
②	011031	1	Set screw M10 x25
③	011075	1	Nyloc nut M10
④	036044	1	Double swivel nozzle assembly
⑤	030635	1	Cone nozzle cap, per nozzle
⑥	030748	1	Jet (blue), per nozzle
⑦	030636	1	Rubber washer, per nozzle
⑧	030633	1	Filter, 100 mesh, per nozzle
⑨	011153	1	Dowty seal $\frac{3}{8}$ " BSP
⑩	011199	1	Adapter $\frac{3}{8}$ " x $\frac{1}{4}$ " BSP
⑪	011152	1	Dowty seal $\frac{1}{4}$ " BSP
⑫	011743	1	Valve, ball, $\frac{1}{4}$ " BSP
⑬	010922	1	Adapter $\frac{1}{4}$ " BSP x $\frac{3}{8}$ " hose tail
⑭	010516	1	Hose clamp, worm drive, No. M00 ($\varnothing 11\text{mm}$ - $\varnothing 16\text{mm}$)
⑮	010950	As req	Hose $\frac{3}{8}$ "

Water spray nozzles, suction nozzle box

Figure 192: Water spray nozzles, suction nozzle box

Item	Part No	Qty	Description	
(1)	013360 *	4	Spray jet, square block	
(2)	011067 *	4	Set screw M6 x 20	
(3)	011091 *	4	Spring washer M6	
(4)	010950 *	As req	Hose $\frac{3}{8}$ "	
(5)	003000 *	3	Tee, brass, equal. $\frac{3}{8}$ "	
(6)	010516	13	Hose clamp, worm drive, No. M00 (\varnothing 11mm- \varnothing 16mm)	

*. Quantities shown are per suction nozzle

Water spray nozzles, suction spigot

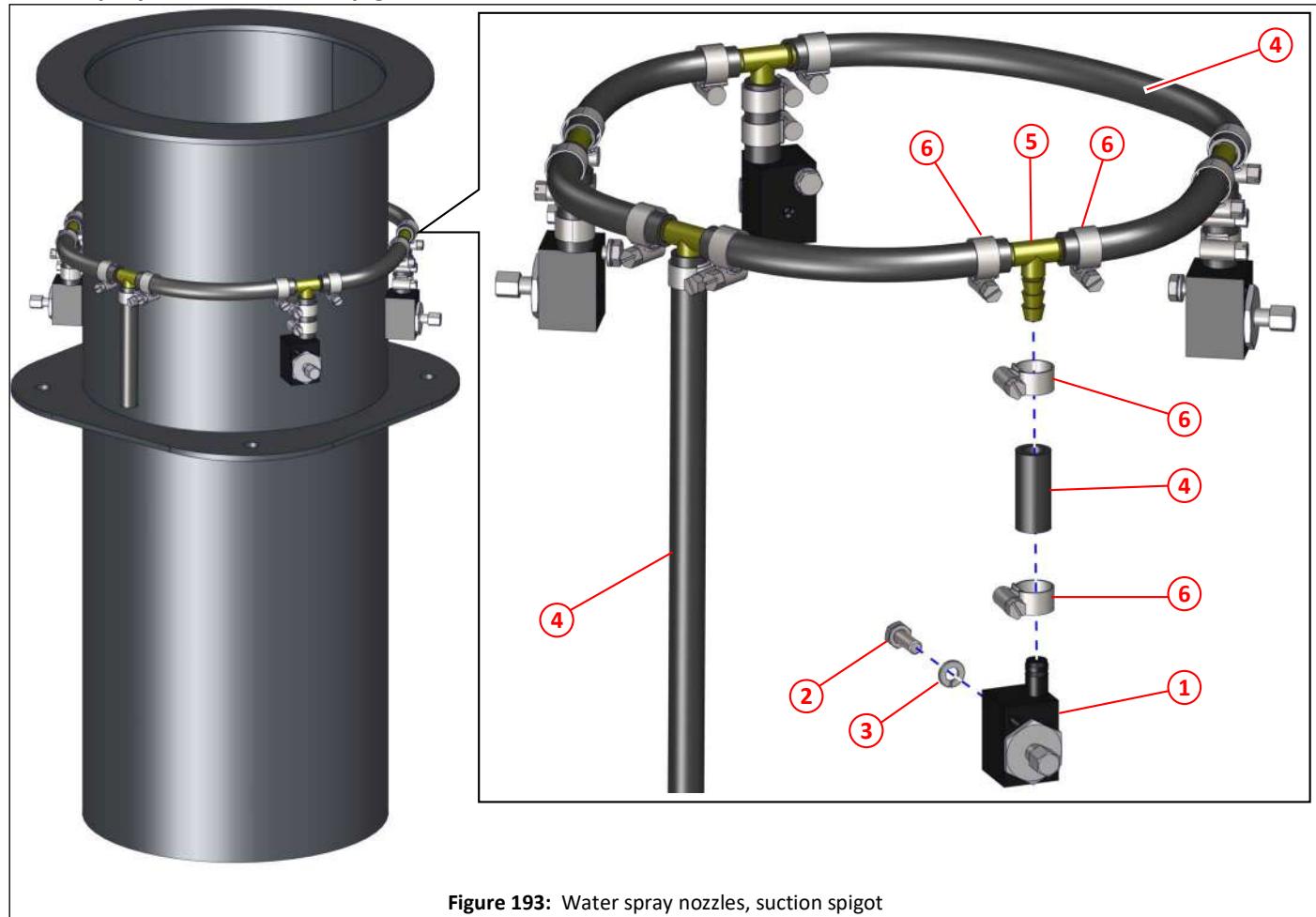


Figure 193: Water spray nozzles, suction spigot

Item	Part No	Qty	Description
①	013360 *	4	Spray jet, square block
②	011067 *	4	Set screw M6 x 20
③	011091 *	4	Spring washer M6
④	010950 *	As req	Hose $\frac{3}{8}$ "
⑤	003000 *	5	Tee, brass, equal. $\frac{3}{8}$ "
⑥	010516	19	Hose clamp, worm drive, No. M00 ($\varnothing 11\text{mm}$ - $\varnothing 16\text{mm}$)

*. Quantities shown are per suction spigot.

Front spray bar, low pressure

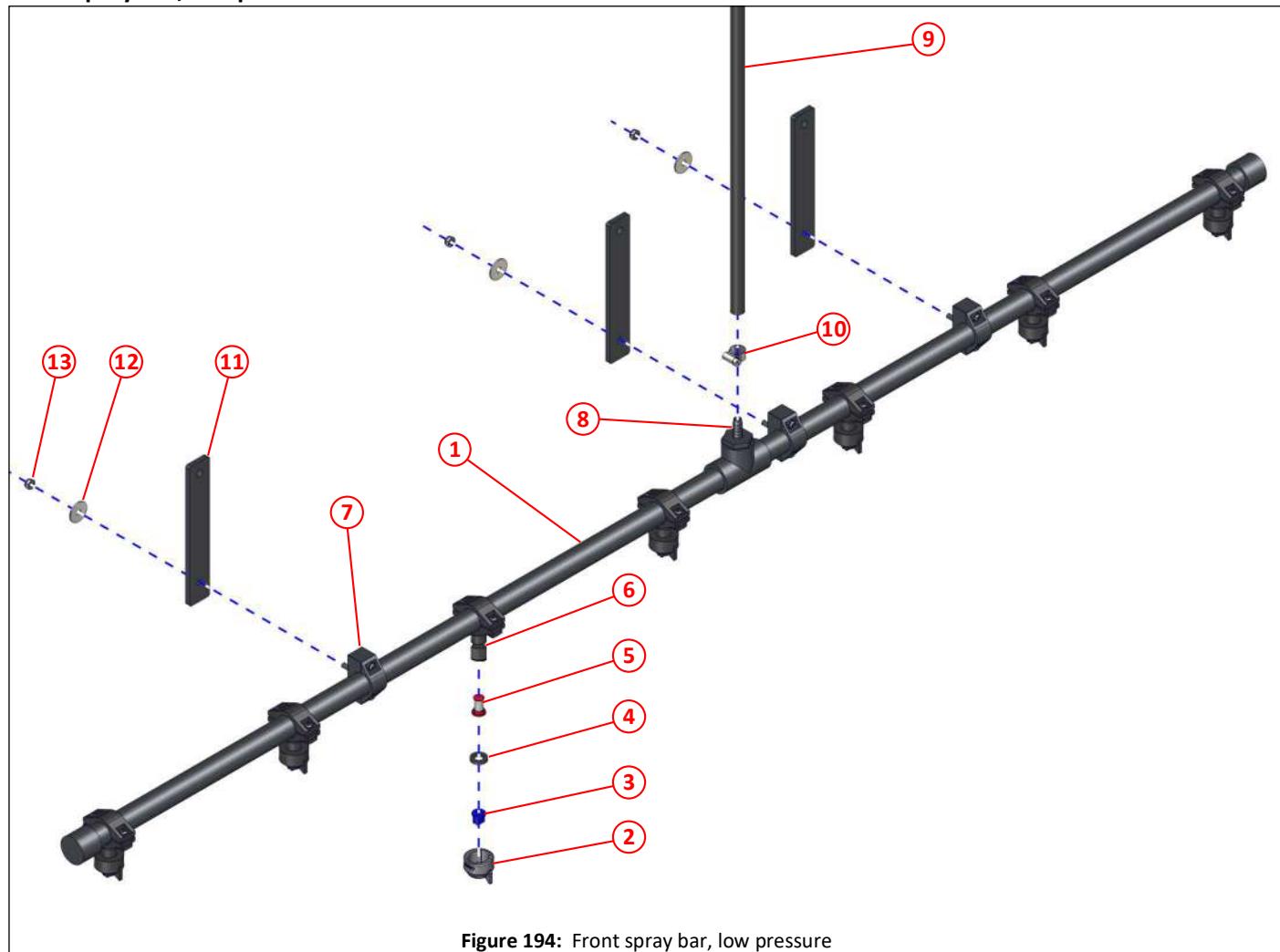


Figure 194: Front spray bar, low pressure

Item	Part No	Qty	Description	
①	030323	1	Spray bar, low pressure, complete, includes items ② to ⑧	
②	030635	7	Cone nozzle cap, per nozzle	
③	030632	7	Jet	
④	030636	7	Rubber washer	
⑤	030633	7	Filter, 100 mesh	
⑥	030634	7	Nozzle holder	
⑦	031338	7	Clamp	
⑧	031339	1	Adapter, hose tail	
⑨	010950	As req	Hose $\frac{3}{8}$ ", from water valves	218
⑩	010516	1	Hose clamp, worm drive, No. M00 ($\phi 11\text{mm}$ - $\phi 16\text{mm}$)	
⑪	036655 *	3	Bracket, low pressure spray bar mounting	
⑫	011099	3	Repair washer $\phi \frac{1}{4}\text{"} \times \phi 1\text{"}$	
⑬	011071	3	Nyloc nut M6	

*. These brackets are chassis dependant, contact Scarab Parts Department for the correct item for your particular chassis. Brackets for a DAF 75 shown.

Water nozzle, overhead boom suction tube

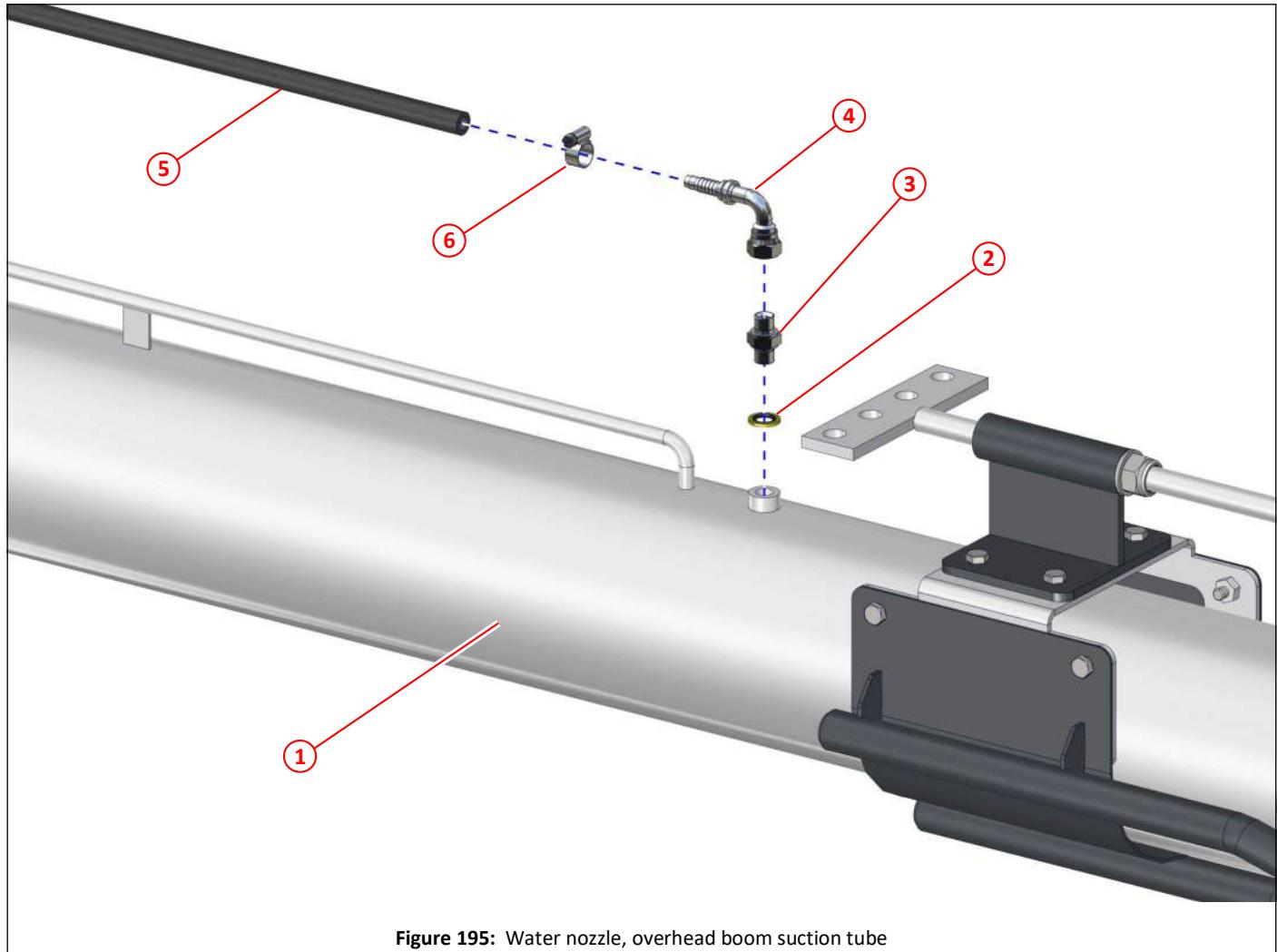


Figure 195: Water nozzle, overhead boom suction tube

Item	Part No	Qty	Description	
①	044120	1	Pipe, suction, overhead boom	123
②	011152	1	Dowty seal $\frac{1}{4}$ " BSP	
③	011158	1	Adapter $\frac{1}{4}$ " BSP	
④	002237	1	Elbow $\frac{1}{4}$ " BSF x $\frac{3}{8}$ " hose tail, 90°	
⑤	010950	As req	Hose Ø9.5 ID, black braided PVC	
⑥	010516	2	Hose clamp, worm drive, No. M00 (Ø11mm-Ø16mm)	

Water strainer, high pressure

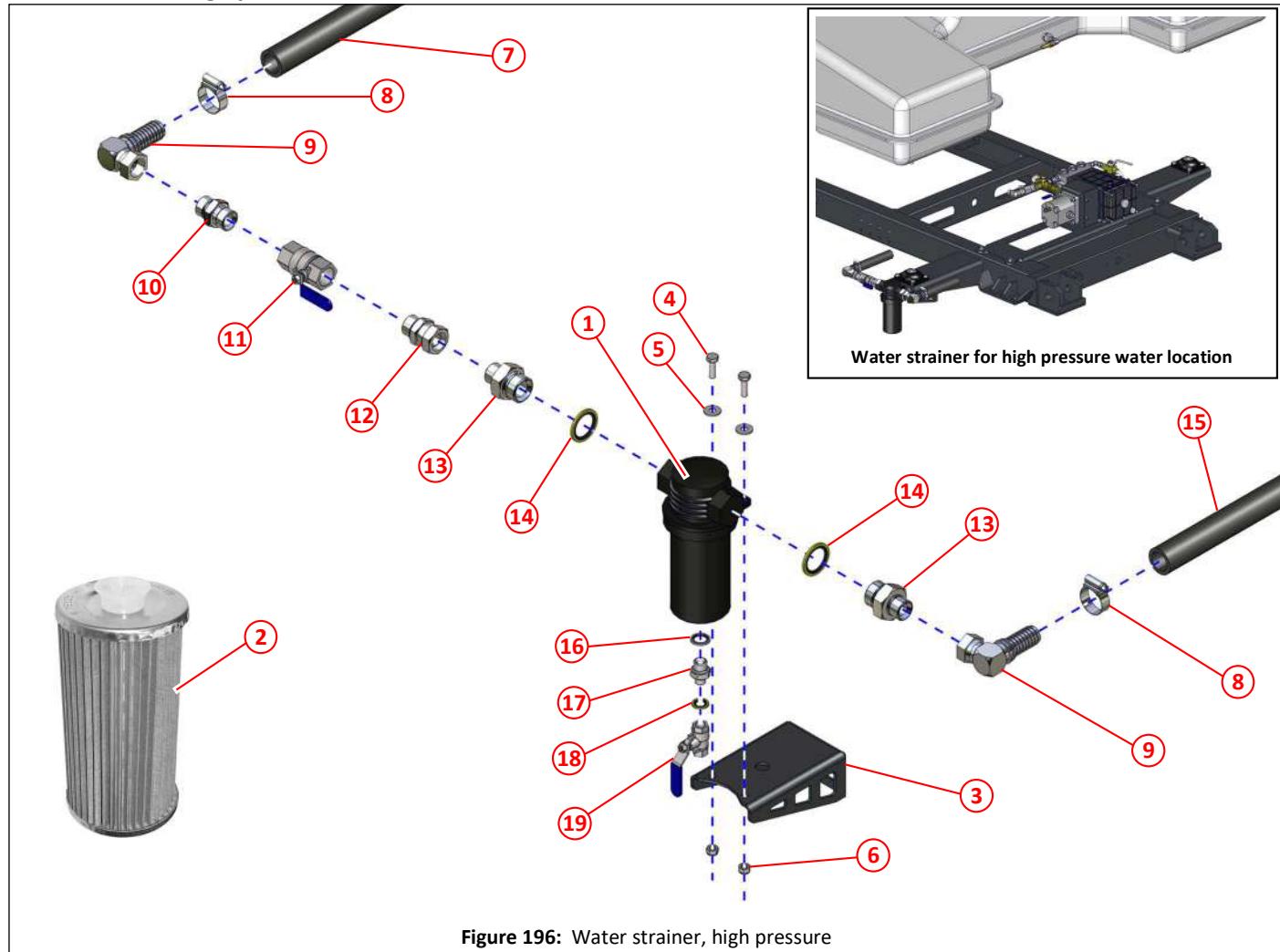


Figure 196: Water strainer, high pressure

Item	Part No	Qty	Description
①	023862	1	Water strainer, complete with filter element
②	023863	1	Filter element
③	043086	1	Bracket, water strainer
④	011011	2	Set screw M8 x 25
⑤	011092	2	Plain washer M8
⑥	011073	2	Nyloc nut M8
⑦	010959	As req	Hose 1", from water tank
⑧	010518	2	Hose clamp, worm drive, No. 1X ($\phi 30\text{-}\phi 40$)
⑨	011210	2	Elbow $\frac{3}{4}$ " BSPF x 1" hose tail
⑩	011161	1	Adapter $\frac{3}{4}$ " BSP
⑪	013757	1	Valve, ball, $\frac{3}{4}$ " BSP
⑫	012228	1	Adapter M/F $\frac{3}{4}$ " BSP
⑬	011193	2	Adapter 1" BSP x $\frac{3}{4}$ " BSP
⑭	011156	2	Dowty seal 1" BSP
⑮	010959	As req	Hose 1", to high pressure water pump
⑯	011153	1	Dowty seal $\frac{3}{8}$ " BSP
⑰	011743	1	Adapter, M/M, $\frac{3}{8}$ " BSP x $\frac{1}{4}$ " BSP
⑱	011152	1	Dowty seal $\frac{1}{4}$ " BSP
⑲	011743	1	Valve, ball, $\frac{1}{4}$ " BSP

Water pump, high pressure 30 LPM, mounting, motor and coupling

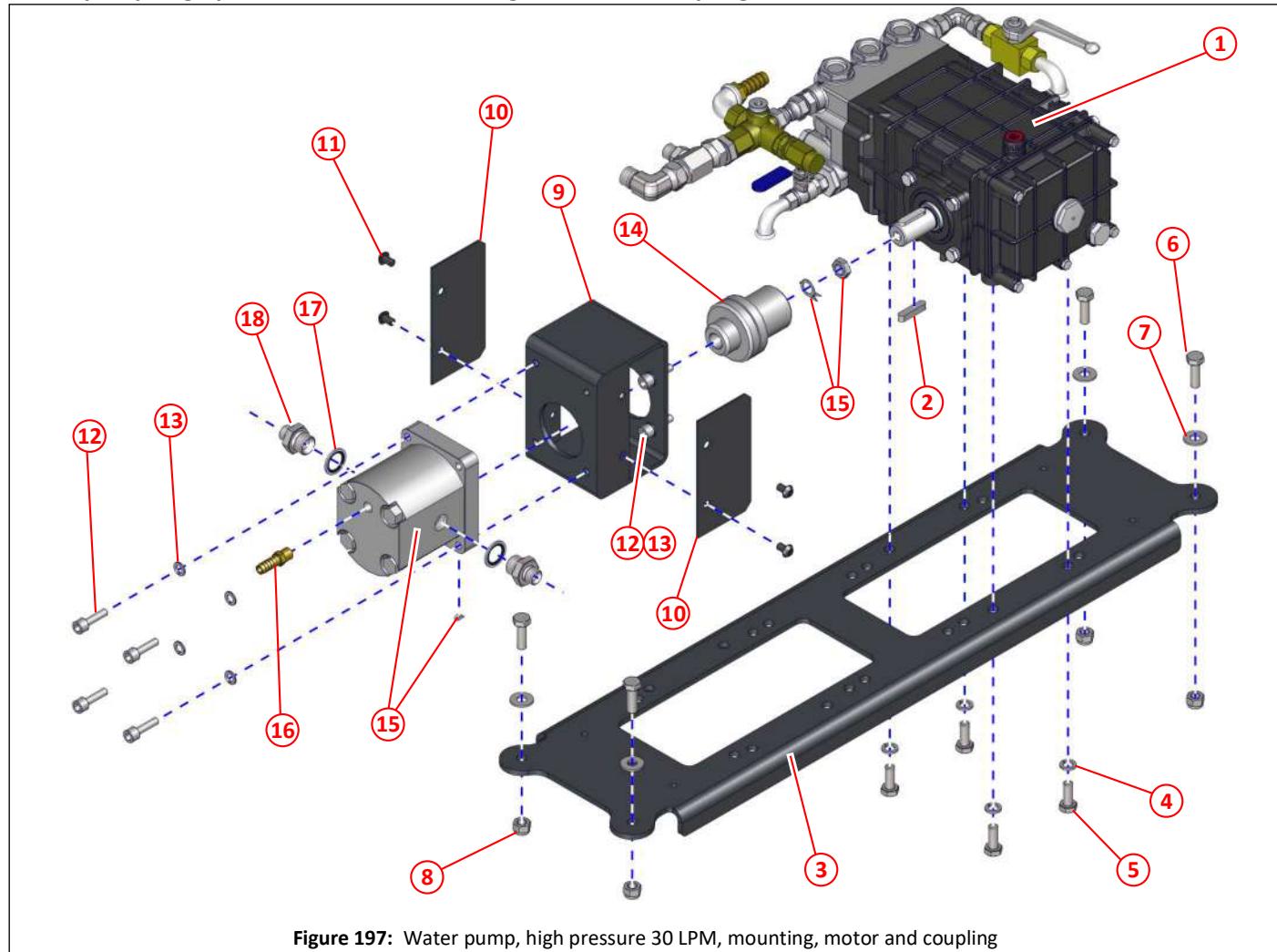


Figure 197: Water pump, high pressure 30 LPM, mounting, motor and coupling

Item	Part No	Qty	Description	
①	039940	1	Water pump, 30 LPM, UDOR	233,234,235
②	011515	1	Key	
③	034374	1	Bracket, high pressure water pump	
④	011095	4	Sprint washer M10	
⑤	011031	4	Set screw M10 x 25	
⑥	011032	4	Set screw M10 x 30	
⑦	011094	4	Plain washer M10	
⑧	011075	4	Nyloc nut M10	
⑨	036654	1	Drive box kit 30lpm pump, includes items ⑩, ⑪, ⑫, ⑬ and ⑭	
⑩		2	Drive box cover	
⑪	000405	4	Socket button head screw, M8 x 12, black	
⑫	000017	8	Socket cap head screw, M8 x 30	
⑬	011093	8	Spring washer M8	
⑭		1	Drive coupling	
⑮	025373	1	Motor, hydraulic, 19cc	279
⑯	003010	1	Adapter, $\frac{1}{4}$ " BSPT x $\frac{3}{8}$ " hose tail	
⑰	011154	2	Dowty seal $\frac{1}{2}$ " BSP	
⑱	011167	2	Adapter, $\frac{1}{2}$ " BSP x $\frac{3}{8}$ " BSP	
NI	001149	2	Hose $\frac{3}{8}$ " BSP x 3550, with straight/90° ends, feed and return for hydraulic motor	

Water pump, high pressure 30 LPM, feed, output and return fittings

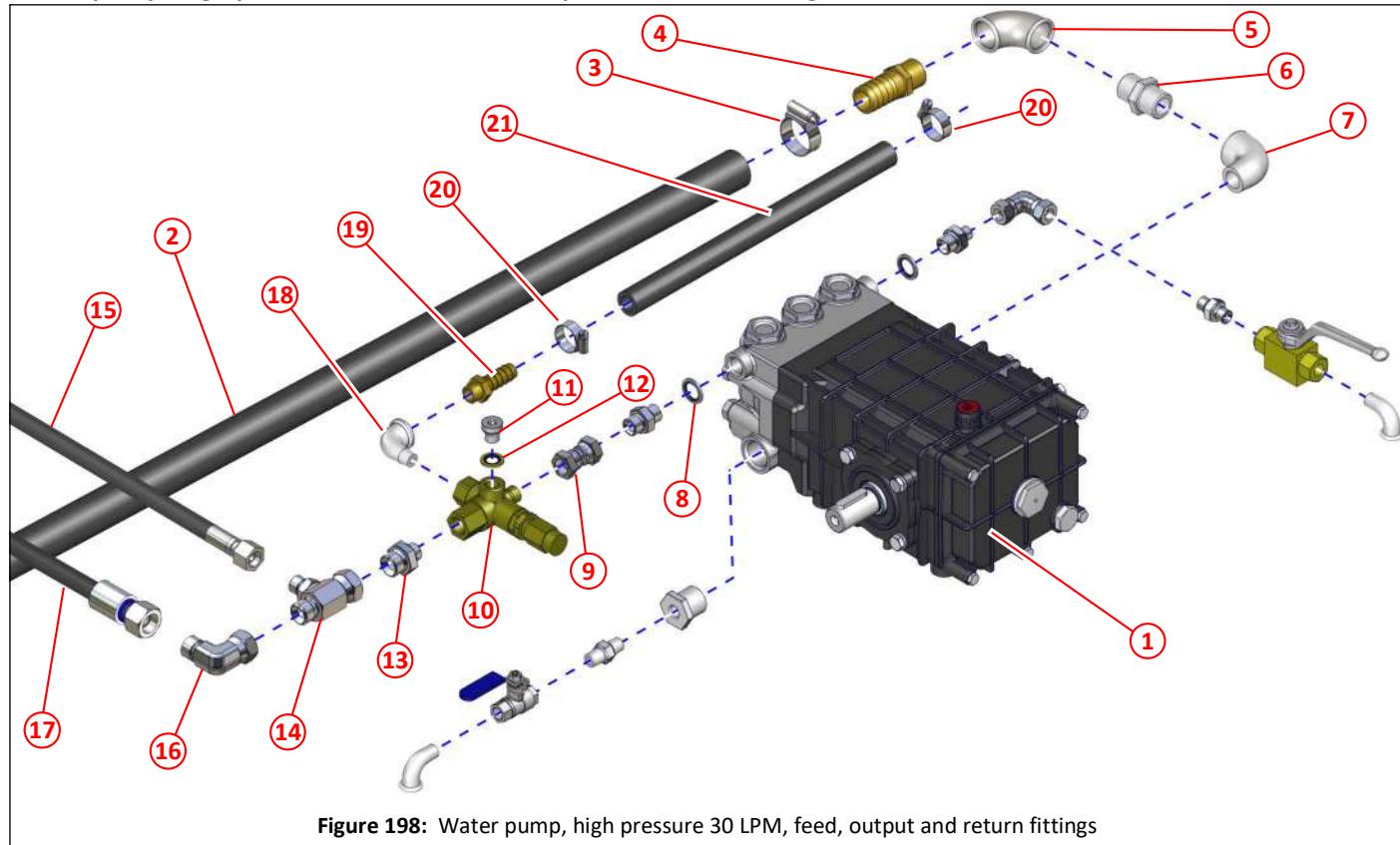


Figure 198: Water pump, high pressure 30 LPM, feed, output and return fittings

Item	Part No	Qty	Description	
①	039940	1	Water pump, 30 LPM, UDOR	232,234,235
②	010959	As req	Hose 1", from water strainer	
③	010518	1	Hose clamp, worm drive, No. 1X ($\varnothing 30-\varnothing 40$)	
④	010931	1	Adapter, $\frac{3}{4}$ " BSP x 1 " hose tail	
⑤	010918	1	Elbow, F/F, $\frac{3}{4}$ " BSP	
⑥	010916	1	Adapter, M/M, $\frac{3}{4}$ " BSP	
⑦	010917	1	Elbow M/F $\frac{3}{4}$ " BSP	
⑧	011153	1	Dowty seal $\frac{3}{8}$ " BSP	
⑨	011214	1	Adapter, $\frac{3}{8}$ " BSP nut/nut	
⑩	010599	1	Valve, unloader, dual	
⑪	011152	1	Dowty seal $\frac{1}{4}$ " BSP	
⑫	002016	1	Plug, hex socket head $\frac{1}{4}$ " BSP	
⑬	011167	1	Adapter, $\frac{1}{2}$ " BSP x $\frac{3}{8}$ " BSP	
⑭	002110	1	Tee, $\frac{1}{2}$ " BSP male x $\frac{1}{2}$ " BSP female x $\frac{3}{8}$ " BSP male, reducer on branch	
⑮	011307	1	Hose $\frac{3}{8}$ " BSP x 1300, straight ends	
⑯	011173	1	Elbow, swivel, M/F, $\frac{1}{2}$ " BSP	
⑰	001068	1	Hose, $\frac{1}{2}$ " BSP straight ends, 4000mm, to front spray bar shut off valve	
⑱	010913	1	Elbow, M/F, $\frac{3}{8}$ " BSP	
⑲	010930	1	Adapter, $\frac{3}{8}$ " BSP x $\frac{5}{8}$ ", hose tail	
⑳	010517	2	Hose clamp, worm drive, No. 0X ($\varnothing 18-\varnothing 25$)	
㉑	011000	As req	Hose, $\frac{5}{8}$ ", return from high pressure pump to water tank	

Water pump, high pressure 30 LPM, drainage fittings

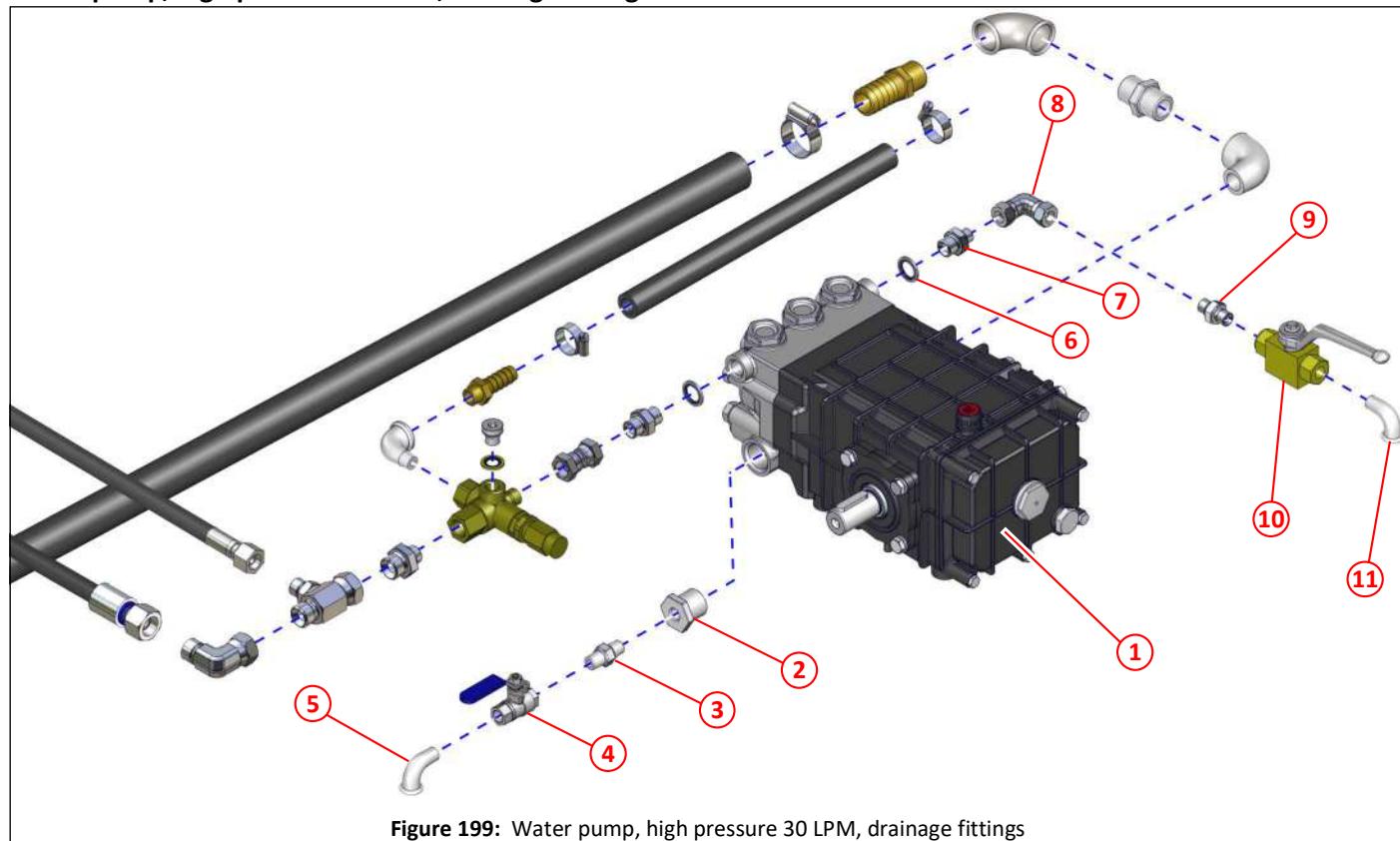


Figure 199: Water pump, high pressure 30 LPM, drainage fittings

Item	Part No	Qty	Description	
①	039940	1	Water pump, 30 LPM, UDOR	232,233,235
②	003006	1	Reducing bush, $\frac{3}{4}$ " BSP x $\frac{1}{4}$ " BSP	
③	010944	1	Adapter, M/M, $\frac{1}{4}$ " BSP	
④	011743	1	Valve, ball, $\frac{1}{4}$ " BSP	
⑤	010910	1	Elbow, M/F, $\frac{1}{4}$ " BSP	
⑥	011153	1	Dowty seal $\frac{3}{8}$ " BSP	
⑦	011199	1	Adapter $\frac{3}{8}$ " BSP x $\frac{1}{4}$ " BSP	
⑧	011169	1	Elbow, swivel, F/F, $\frac{1}{4}$ " BSP	
⑨	011158	1	Adapter, M/M, $\frac{1}{4}$ " BSP	
⑩	011257	1	Valve, ball, $\frac{1}{4}$ " BSP, high pressure	
⑪	010910	1	Elbow, M/F, $\frac{1}{4}$ " BSP	

Water pump, high pressure 30 LPM, seal kits

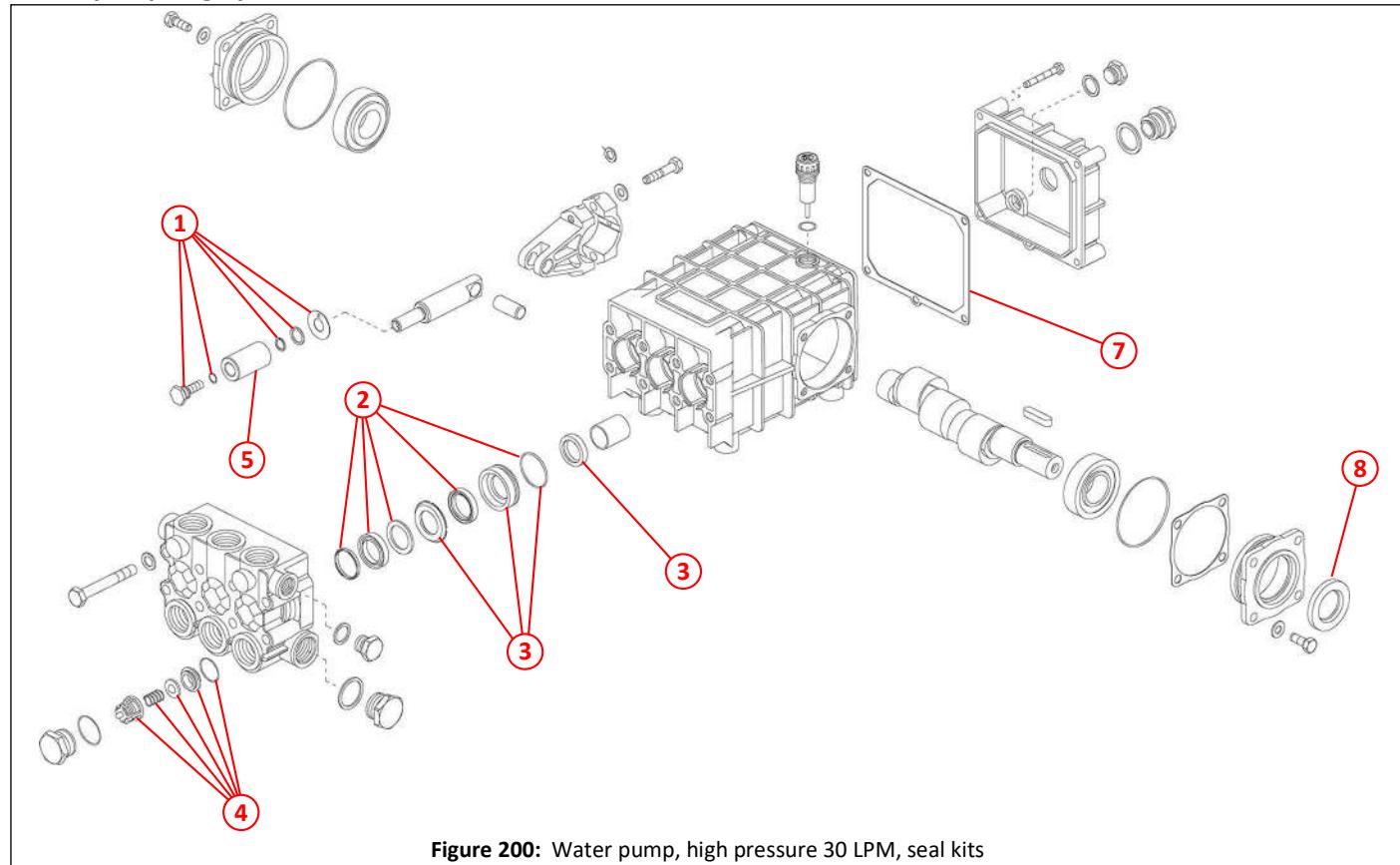
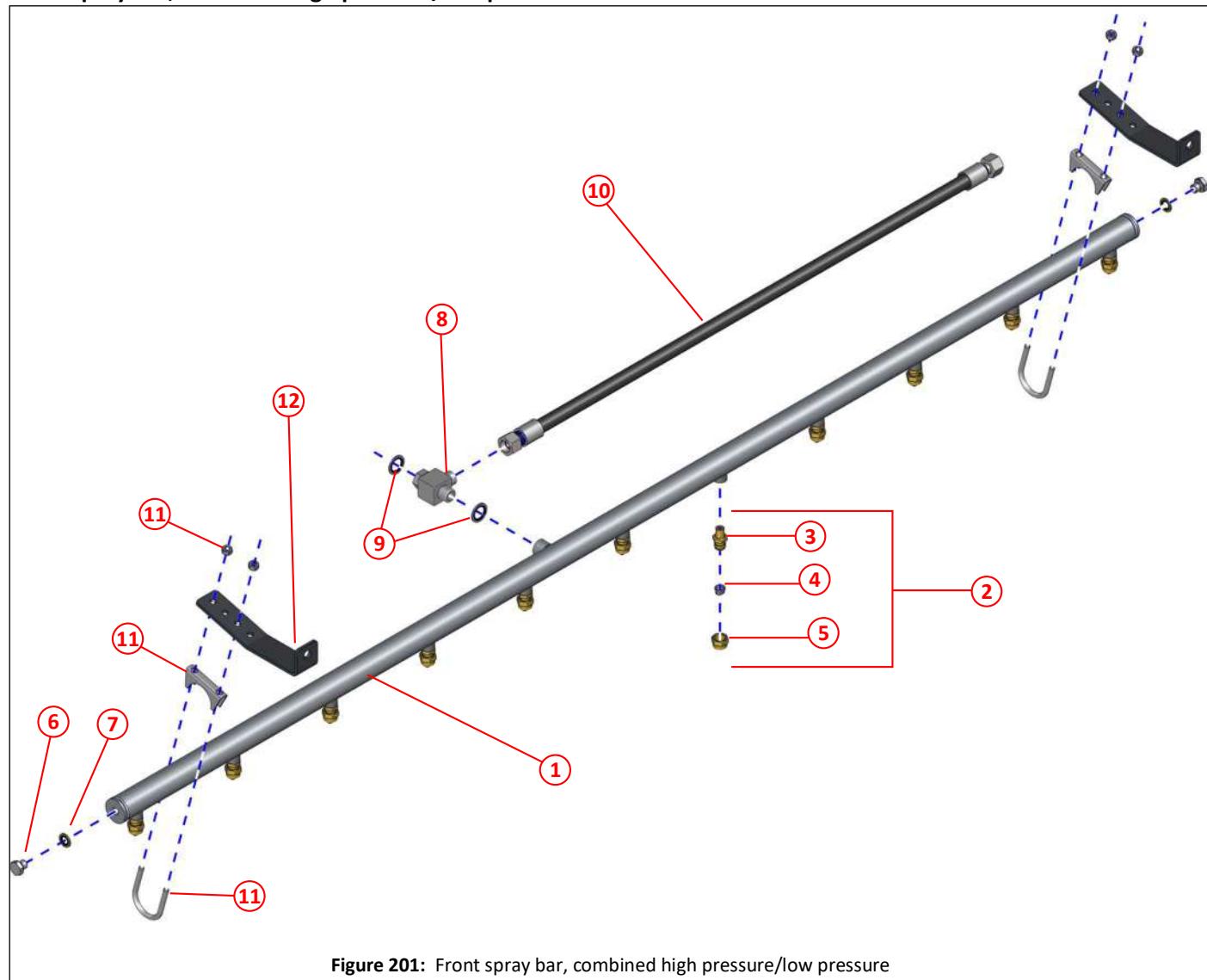


Figure 200: Water pump, high pressure 30 LPM, seal kits

Item	Part No	Qty	Description	File
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	

Front spray bar, combined high pressure/low pressure



Item	Part No	Qty	Description
①	020405	1	Spray bar, stainless steel
②	030510	11	Spray jet assembly, contains parts ③, ④ and ⑤
③	010112	1	Nozzle body, per nozzle
④	023377	1	Spray jet, per nozzle
⑤	030951	1	Nozzle cap, per nozzle
⑥	011241	2	Plug 1/4" BSP
⑦	011152	2	Dowty seal 1/4" BSP
⑧	011188	1	Banjo 1/2" BSP
⑨	011154	2	Dowty seal 1/2" BSP
⑩	001068	1	Hose, 1/2" BSP straight ends, 4000mm, from tap
⑪	014983	2	'U' Clamp 1 5/8"
⑫	*	2	Spray bar bracket

*. Spray bar brackets are dependant on the chassis. Please contact Scarab Parts Department.

Shut off valve and low pressure non return valve, combined front spray bar

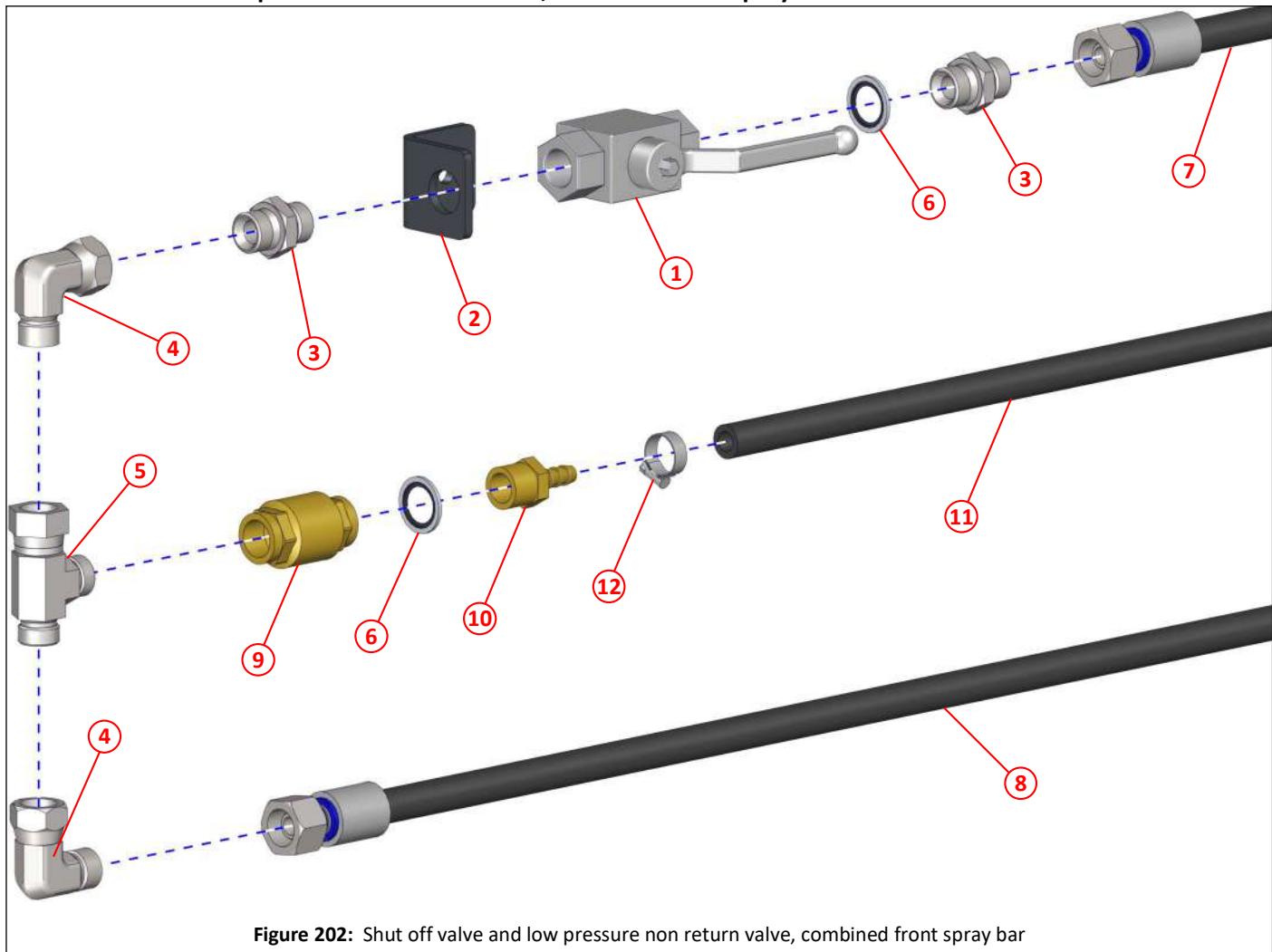
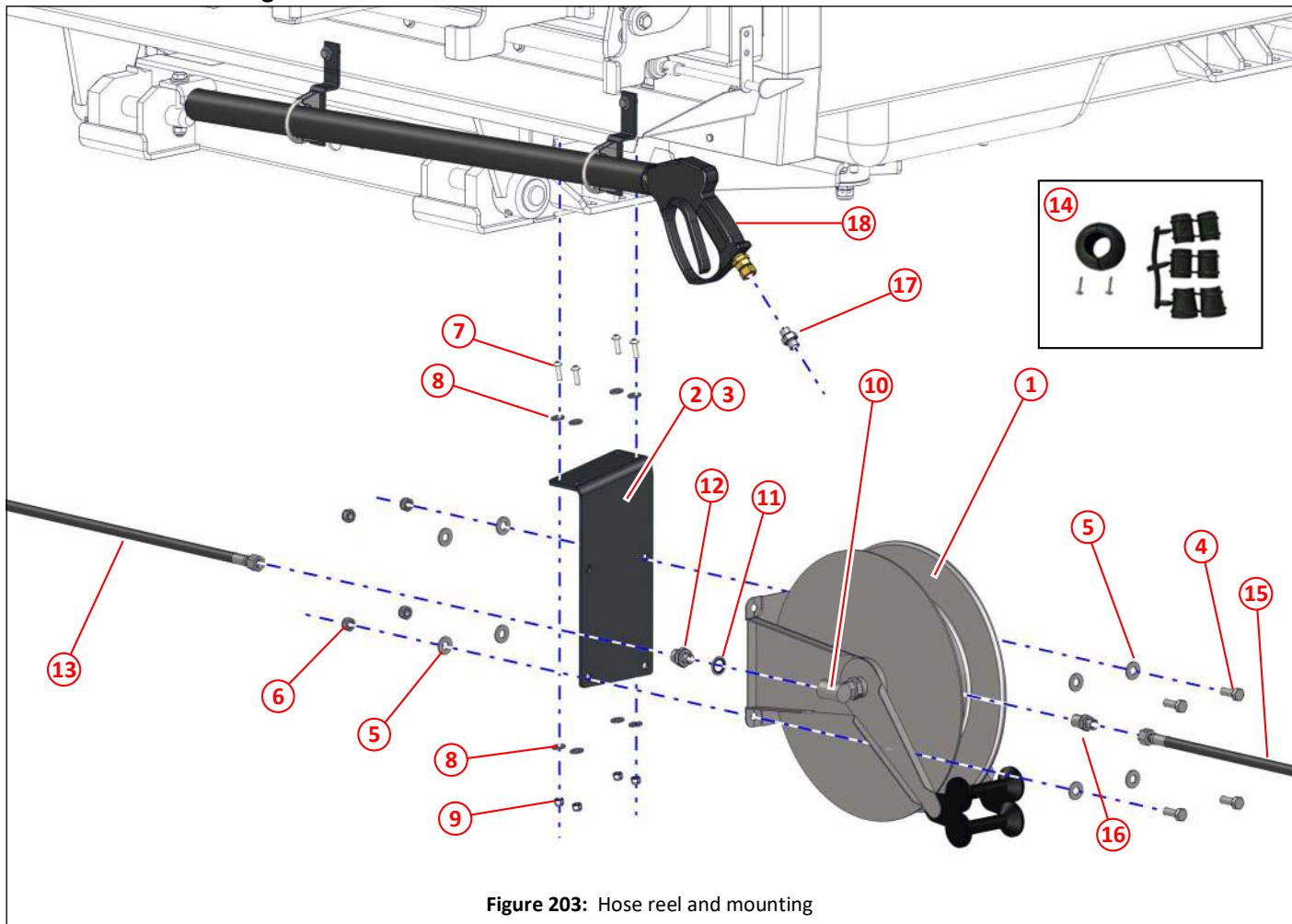


Figure 202: Shut off valve and low pressure non return valve, combined front spray bar

Item	Part No	Qty	Description	
①	023176	1	Valve, ball, ½" BSP, (high pressure water shut off)	
②	025007	1	Bracket, spray bar valve	
③	011160	2	Adapter, M/M, ½" BSP M/M	
④	011173	2	Elbow, swivel, M/F, ½" BSP	
⑤	011182	1	Tee, nut on run, ½" BSP	
⑥	011154	2	Dowty seal ½" BSP	
⑦	001068	1	Hose, ½" BSP straight ends, 4000mm, from high pressure water pump	
⑧	001068	1	Hose, ½" BSP straight ends, 4000mm, to high pressure front spray bar	
⑨	003033	1	Valve, non return, ½" BSP	
⑩	003034	1	Adapter, male ½" BSPT x ¾" hose tail	
⑪	010950	As req	Hose ¾", from water valves	218
⑫	010516	1	Hose clamp, worm drive, No. M00 (Ø11mm-Ø16mm)	

Hose reel and mounting



Item	Part No	Qty	Description	
①	020451	1	Hose reel, retracting, without hose	
②	034390	1	Mounting bracket, for right hand side	
③	039380	1	Mounting bracket, for left hand side	
④	011052	4	Set screw M12 x 30	
⑤	011096	8	Plain washer M12	
⑥	011077	4	Nyloc nut M12	
⑦	000281	4	Socket button head set screw M8 x 25, stainless steel	
⑧	000264	8	Plain washer, M8, stainless steel	
⑨	000263	4	Nyloc nut M8, stainless steel	
⑩	026217	1	Elbow, swivel, repair kit	
⑪	011154	1	Dowty seal $\frac{1}{2}$ " BSP	
⑫	011167	1	Adapter, M/M, $\frac{1}{2}$ " BSP x $\frac{3}{8}$ " BSP	
⑬	011307	1	Hose $\frac{3}{8}$ " BSP x 1300, from high pressure water pump	
⑭	026217	1	Clamp, hose retract stop	
⑮	010601	13m	Hose, rubber, reinforced	
⑯	002204	1	Adapter, M/M, $\frac{3}{8}$ " BSP x $\frac{1}{2}$ " NPT, (connector for hose to hose reel)	
⑰	011159	1	Adapter, M/M, $\frac{3}{8}$ " BSP	
⑱	010748	1	Hand lance	239

Hand lance and mounting

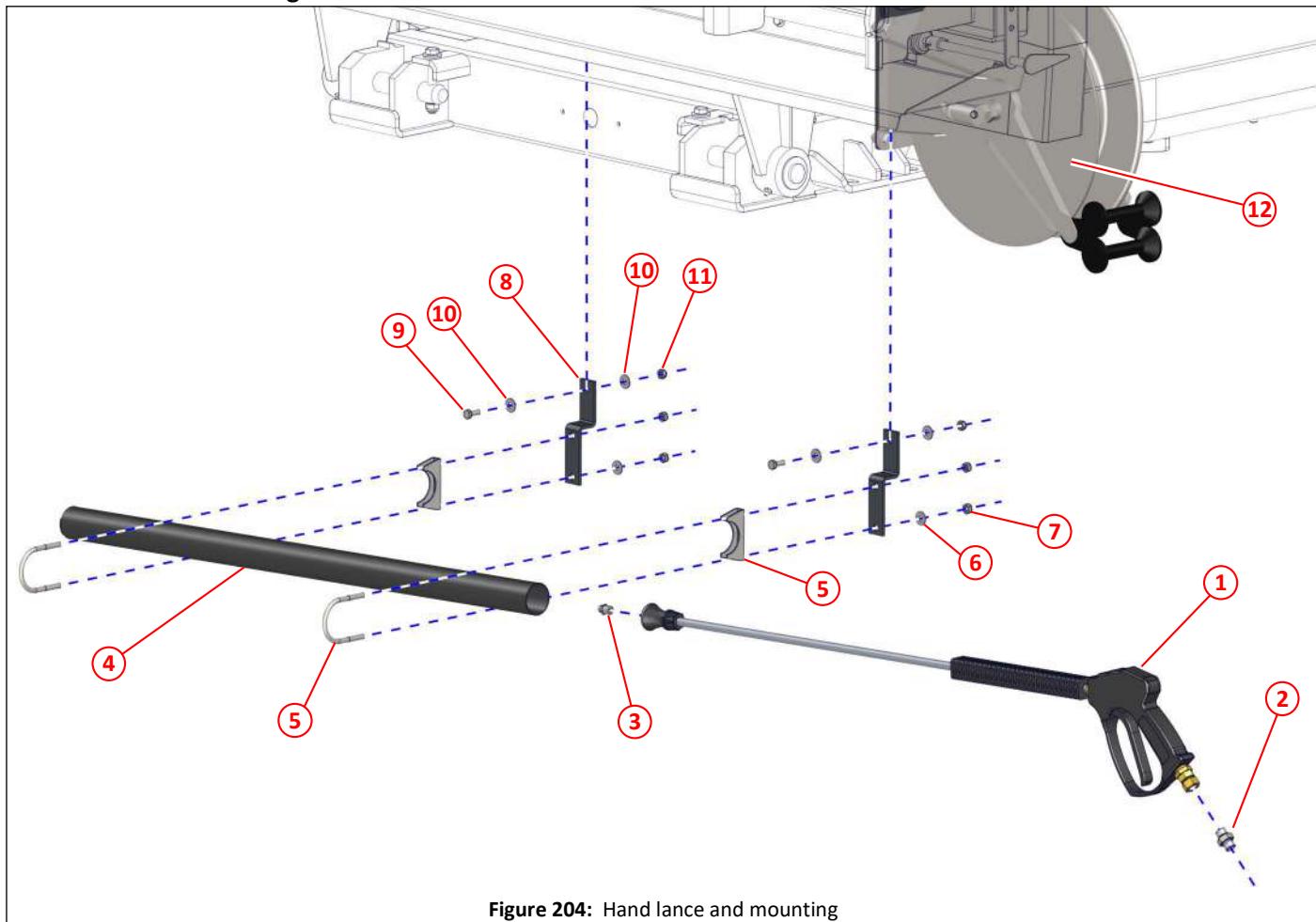


Figure 204: Hand lance and mounting

Item	Part No	Qty	Description	
①	010748	1	Hand lance	
②	011159	1	Adapter, M/M, $\frac{3}{8}$ " BSP	
③	020758	1	Nozzle 1520	
④	025473	1	Tube, hand lance stoawage	
⑤	012901	2	'U'-clamp 2"	
⑥	011092	2	Plain washer M8	
⑦	011073	4	Nyloc nut M8	
⑧	032265	2	Bracket, hand lance stowage tube	
⑨	011010	2	Set screw M8 x 20	
⑩	011092	4	Plain washer M8	
⑪	011073	2	Nyloc nut M8	
⑫	020451	1	Hose reel, retracting, without hose	238

Spray bar, high pressure, front of suction nozzle, mounting

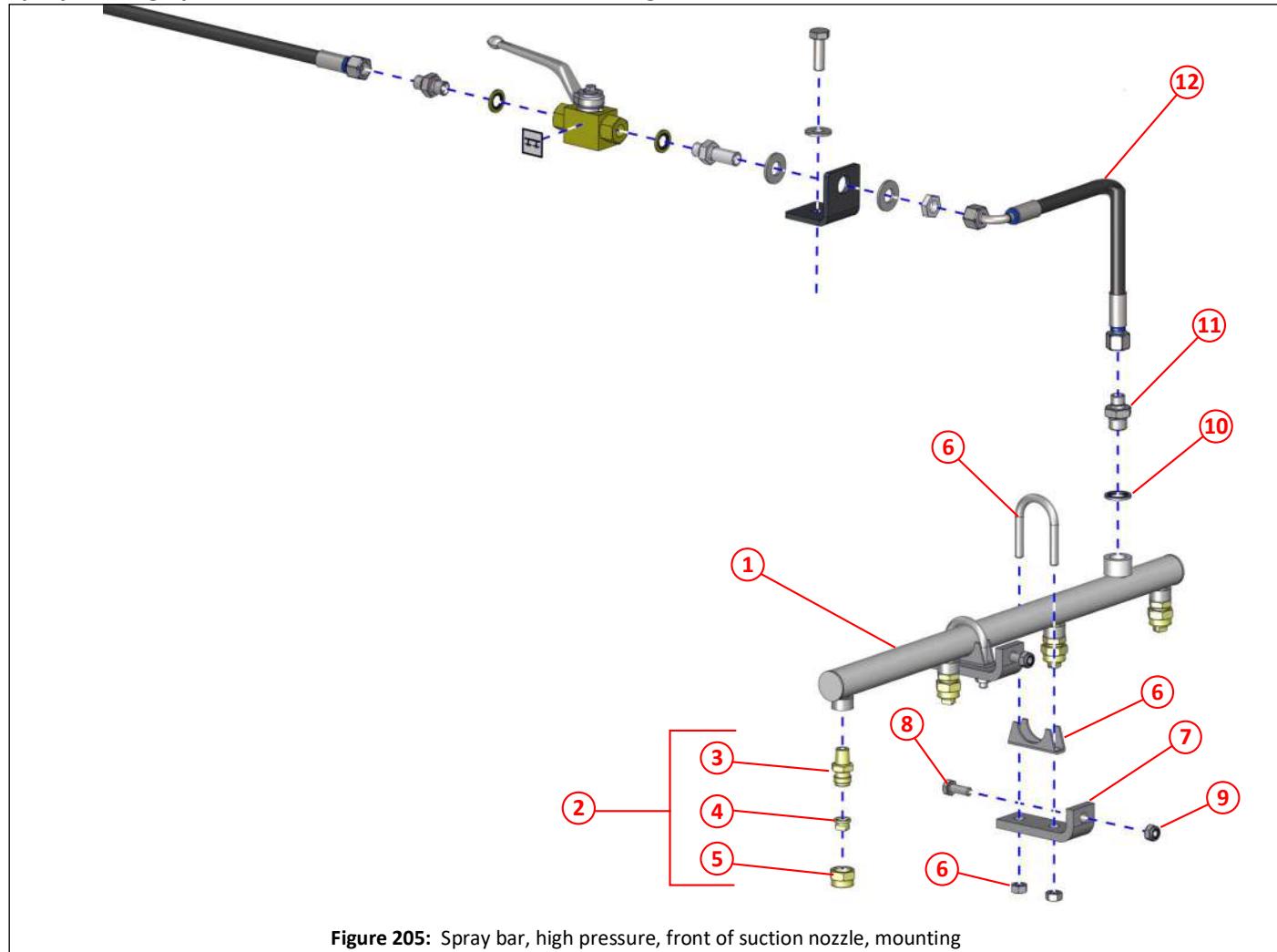


Figure 205: Spray bar, high pressure, front of suction nozzle, mounting

Item	Part No	Qty	Description	
①	020589	1	Spray bar	241
②	030506	4	Complete spray jet assembly, contains items ③, ④ and ⑤	
③	010112	4	Nozzle boy	
④	012316	4	Spray jet	
⑤	030951	4	Nozzle cap	
⑥	020774	2	Pipe 'U'-clamp ø32 (ø1 5/8")	
⑦	020590	2	Bracket, spray bar	
⑧	011010	2	Set screw M8 x 20	
⑨	011073	2	Nyloc nut M8	
⑩	011153	1	Dowty seal 3/8" BSP	
⑪	011199	1	Adapter 3/8" BSP x 1/4" BSP	
⑫	001104	1	Hose 1/4" BSP x 460, straight/90° ends	

Spray bar, high pressure, front of suction nozzle, water feed and shut off valve

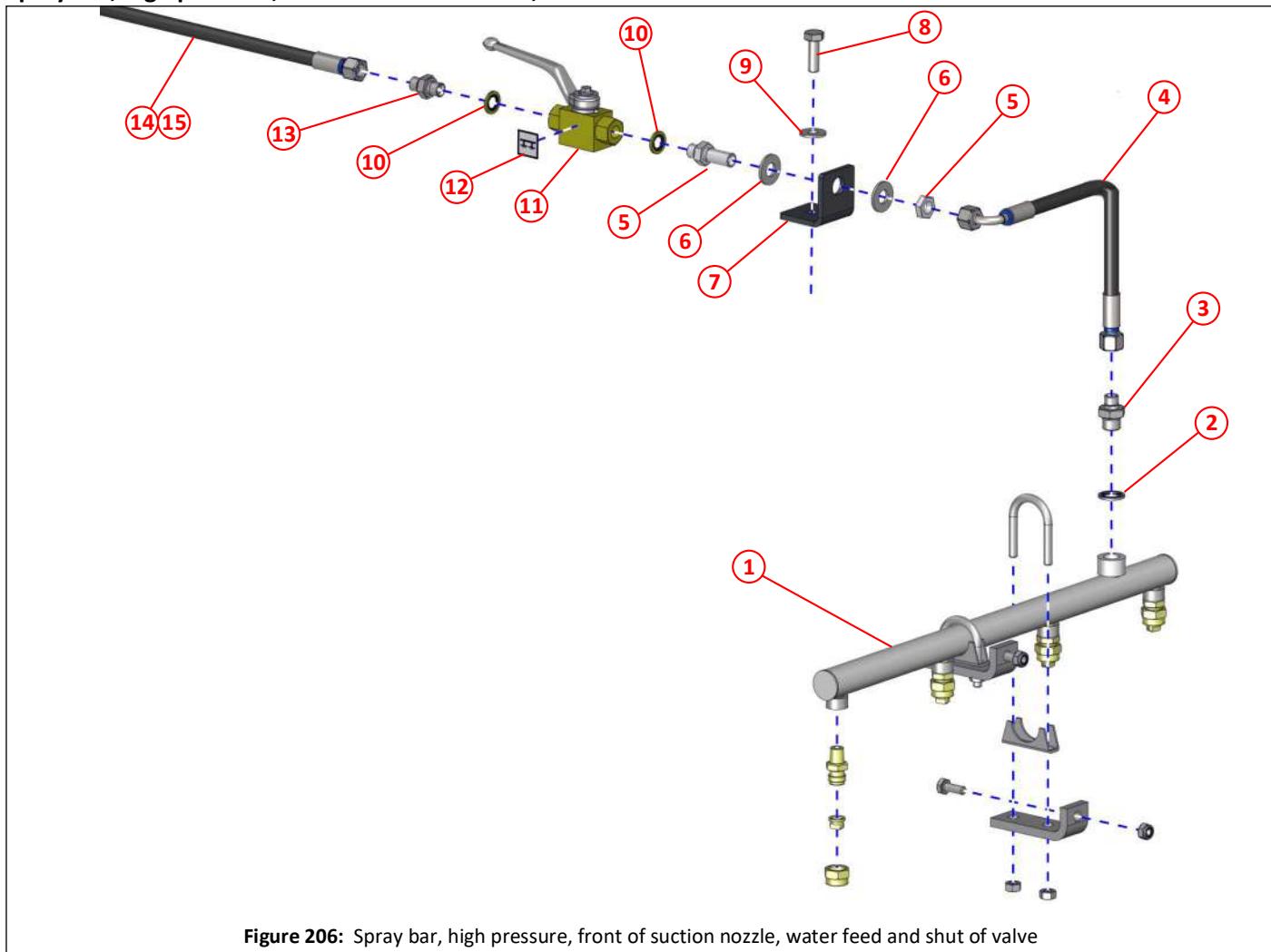


Figure 206: Spray bar, high pressure, front of suction nozzle, water feed and shut of valve

Item	Part No	Qty	Description	
①	020589	1	Spray bar	240
②	011153	1	Dowty seal $\frac{3}{8}$ " BSP	
③	011199	1	Adapter $\frac{3}{8}$ " BSP x $\frac{1}{4}$ " BSP	
④	001104	1	Hose $\frac{1}{4}$ " BSP x 460, straight/90° ends	
⑤	011269	1	Adapter, bulkhead, $\frac{1}{4}$ " BSP	
⑥	011096	2	Plain washer M12	
⑦	012548	1	Angle bracket	
⑧	011030	1	Set screw M10 x 20	
⑨	011095	1	Spring washer M10	
⑩	011152	2	Dowty seal $\frac{1}{4}$ " BSP	
⑪	011257	1	Valve, ball, $\frac{1}{4}$ " BSP, high pressure	
⑫	039547	1	Label - High pressure spray	
⑬	011158	1	Adapter $\frac{1}{4}$ " BSP	
⑭	001264	1	Hose $\frac{1}{4}$ " BSP x 1000, straight ends, for left side	
⑮	010987	1	Hose $\frac{1}{4}$ " BSP x 1660, straight ends, for right side	

Spray bar, high pressure, rear of suction nozzle, mounting

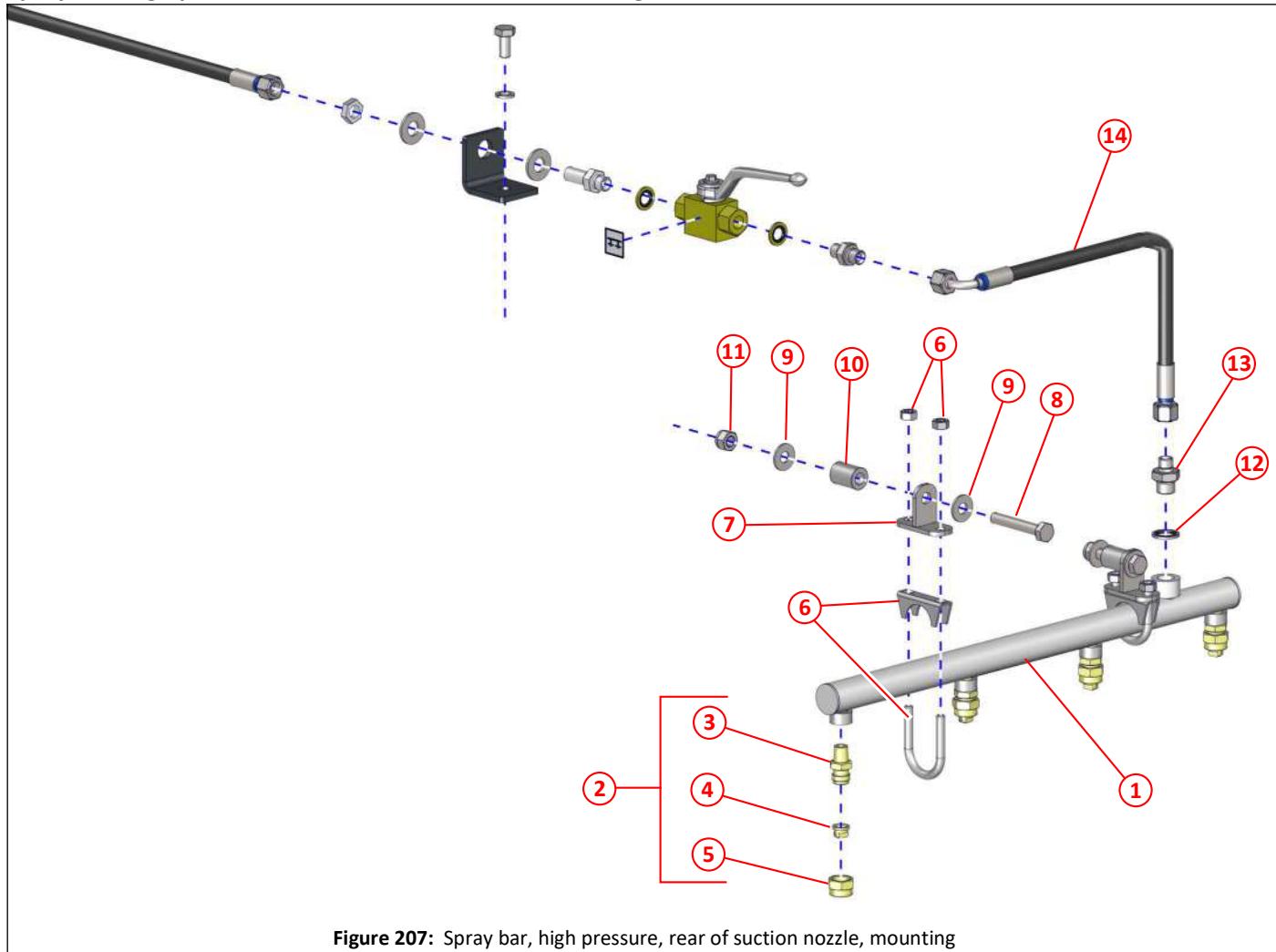


Figure 207: Spray bar, high pressure, rear of suction nozzle, mounting

Item	Part No	Qty	Description	
①	020589	1	Spray bar	243
②	030506	4	Complete spray jet assembly, contains items ③, ④ and ⑤	
③	010112	4	Nozzle boy	
④	012316	4	Spray jet	
⑤	030951	4	Nozzle cap	
⑥	020774	2	Pipe 'U'-clamp ø32 (ø1 5/8")	
⑦	041466	2	Bracket	
⑧	011036	2	Bolt M10 x 60	
⑨	011094	4	Plain washer M10	
⑩	012981	2	Spacer ø11 x ø20 x 27	
⑪	011075	2	Nyloc nut M10	
⑫	011153	1	Dowty seal 3/8" BSP	
⑬	011199	1	Adapter 3/8" BSP x 1/4" BSP	
⑭	001100	1	Hose 1/4" BSP x 1020, straight/90° ends	

Spray bar, high pressure, rear of suction nozzle, water feed and shut off valve

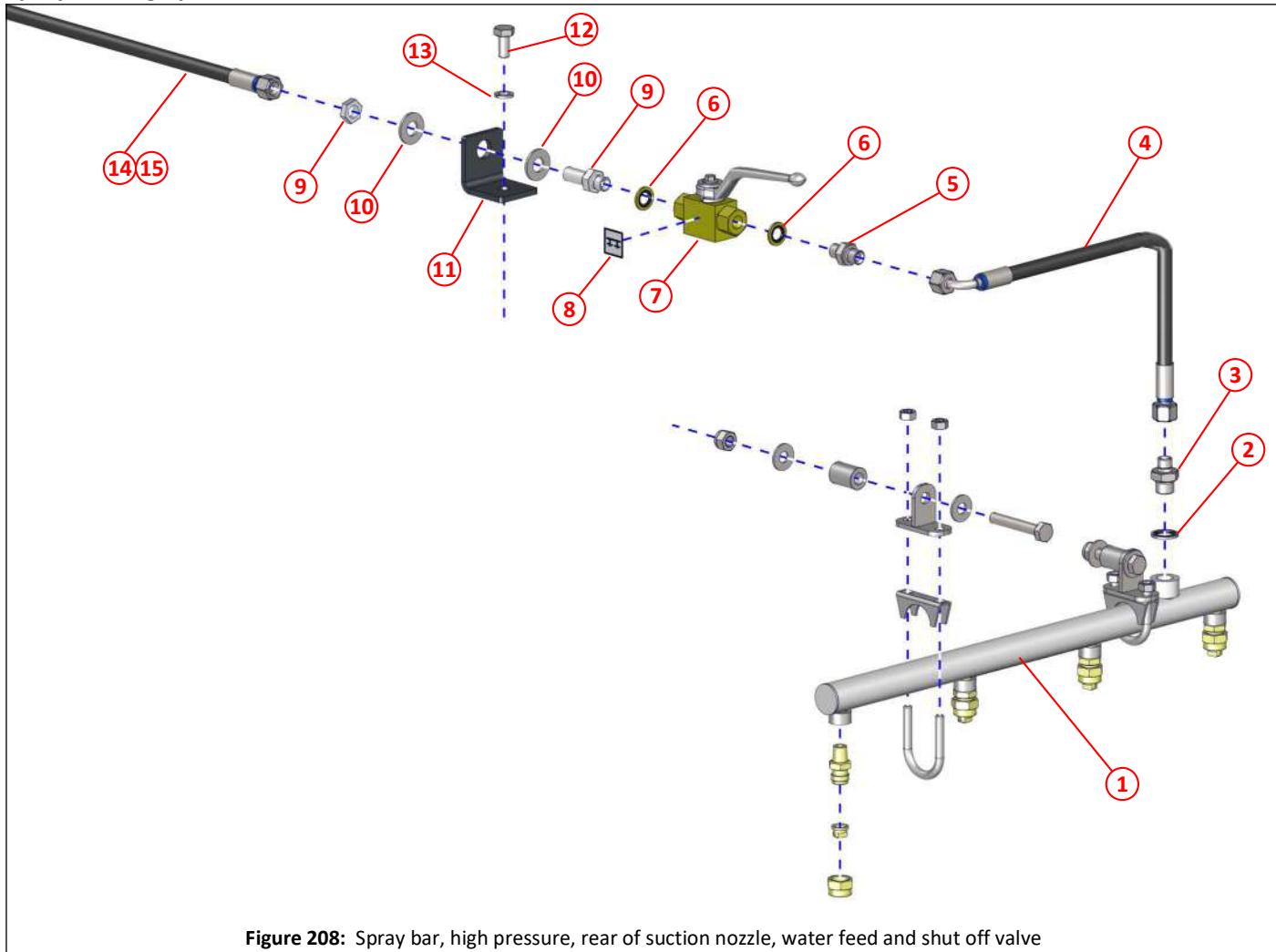
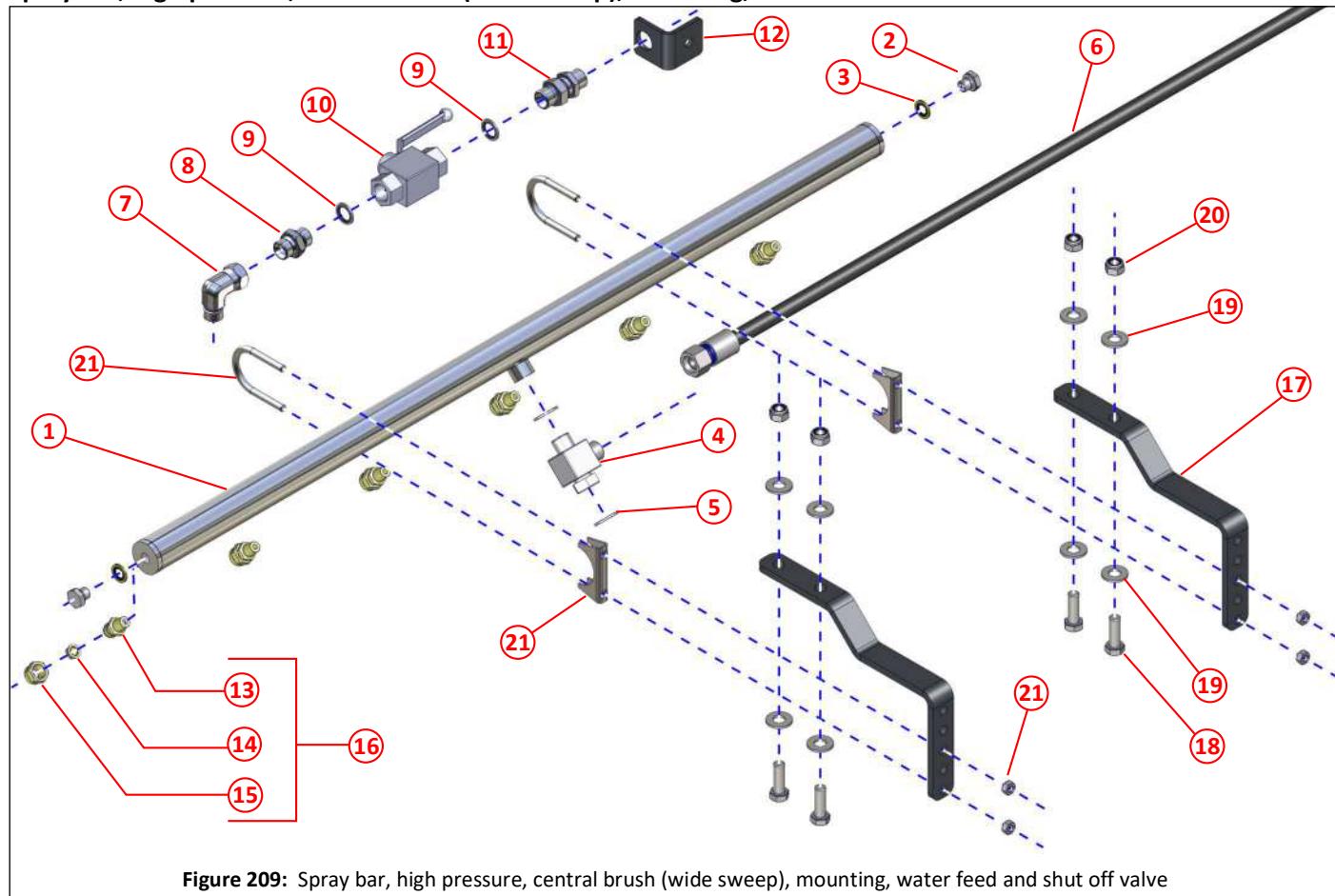


Figure 208: Spray bar, high pressure, rear of suction nozzle, water feed and shut off valve

Item	Part No	Qty	Description	
①	020589	1	Spray bar	242
②	011153	1	Dowty seal $\frac{3}{8}$ " BSP	
③	011199	1	Adapter $\frac{3}{8}$ " BSP x $\frac{1}{4}$ " BSP	
④	001104	1	Hose $\frac{1}{4}$ " BSP x 1020, straight/90° ends	
⑤	011158	1	Adapter $\frac{1}{4}$ " BSP	
⑥	011152	2	Dowty seal $\frac{1}{4}$ " BSP	
⑦	011257	1	Valve, ball, $\frac{1}{4}$ " BSP, high pressure	
⑧	039547	1	Label - High pressure spray	
⑨	011269	1	Adapter, bulkhead, $\frac{1}{4}$ " BSP	
⑩	011096	2	Plain washer M12	
⑪	012548	1	Angle bracket	
⑫	011030	1	Set screw M10 x 20	
⑬	011095	1	Spring washer M10	
⑭	001264	1	Hose $\frac{1}{4}$ " BSP x 1000, straight ends, for left side	
⑮	010987	1	Hose $\frac{1}{4}$ " BSP x 1660, straight ends, for right side	

Spray bar, high pressure, central brush (wide sweep), mounting, water feed and shut off valve

Figure 209: Spray bar, high pressure, central brush (wide sweep), mounting, water feed and shut off valve

Item	Part No	Qty	Description
①	041451	1	Spray bar, central brush (wide sweep) mounted, standard width
②	011241	2	Plug $\frac{1}{4}$ " BSP
③	011152	2	Dowty seal $\frac{1}{4}$ " BSP
④	011188	1	Banjo $\frac{1}{2}$ " BSP
⑤	011154	2	Dowty seal $\frac{1}{2}$ " BSP
⑥	001242	1	Hose $\frac{1}{2}$ " BSP x 1750, straight ends, from shut off valve
⑦	011173	1	Elbow, swivel, M/F, $\frac{1}{2}$ " BSP
⑧	011160	1	Adapter, M/M, $\frac{1}{2}$ " BSP
⑨	011154	2	Dowty seal $\frac{1}{2}$ " BSP
⑩	023176	1	Valve, ball, $\frac{1}{2}$ " BSP, (high pressure water shut off)
⑪	011268	1	Adapter, bulkhead, $\frac{1}{2}$ " BSP, includes nut
⑫	025007	1	Bracket, spray bar valve
⑬	010112	6	Nozzle body
⑭	012316	6	Spray jet
⑮	030951	6	Nozzle cap
⑯	030506	6	Complete spray jet assembly, contains items ⑯, ⑯ and ⑯
⑰	041452	2	Bracket, spray bar , central brush (wide sweep) mounted
⑱	011053	4	Set screw M12 x 35
⑲	011096	8	Plain washer M12
⑳	011077	4	Nyloc nut M12
㉑	014983	2	'U' Clamp $1\frac{5}{8}$ "

Fan wash assist

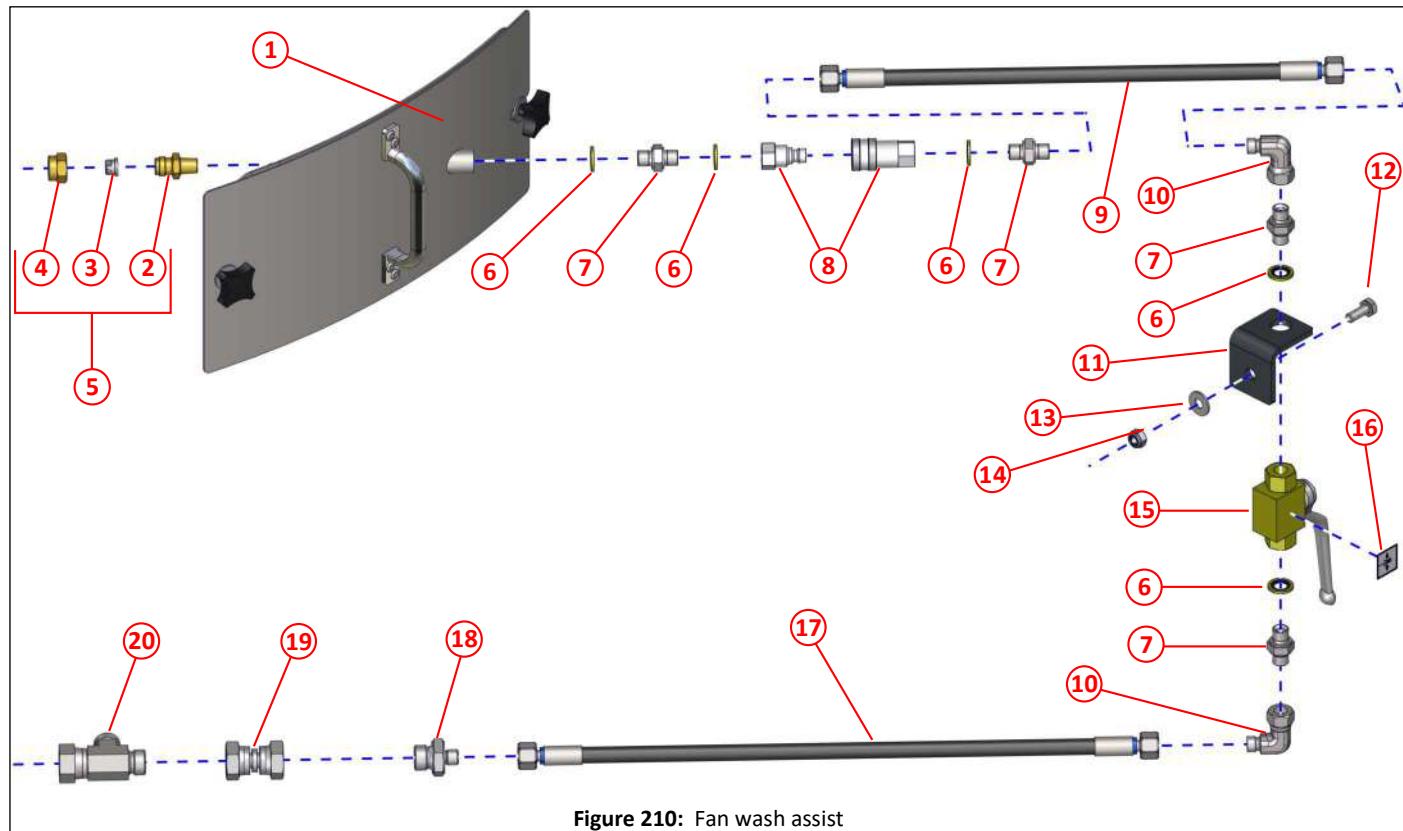
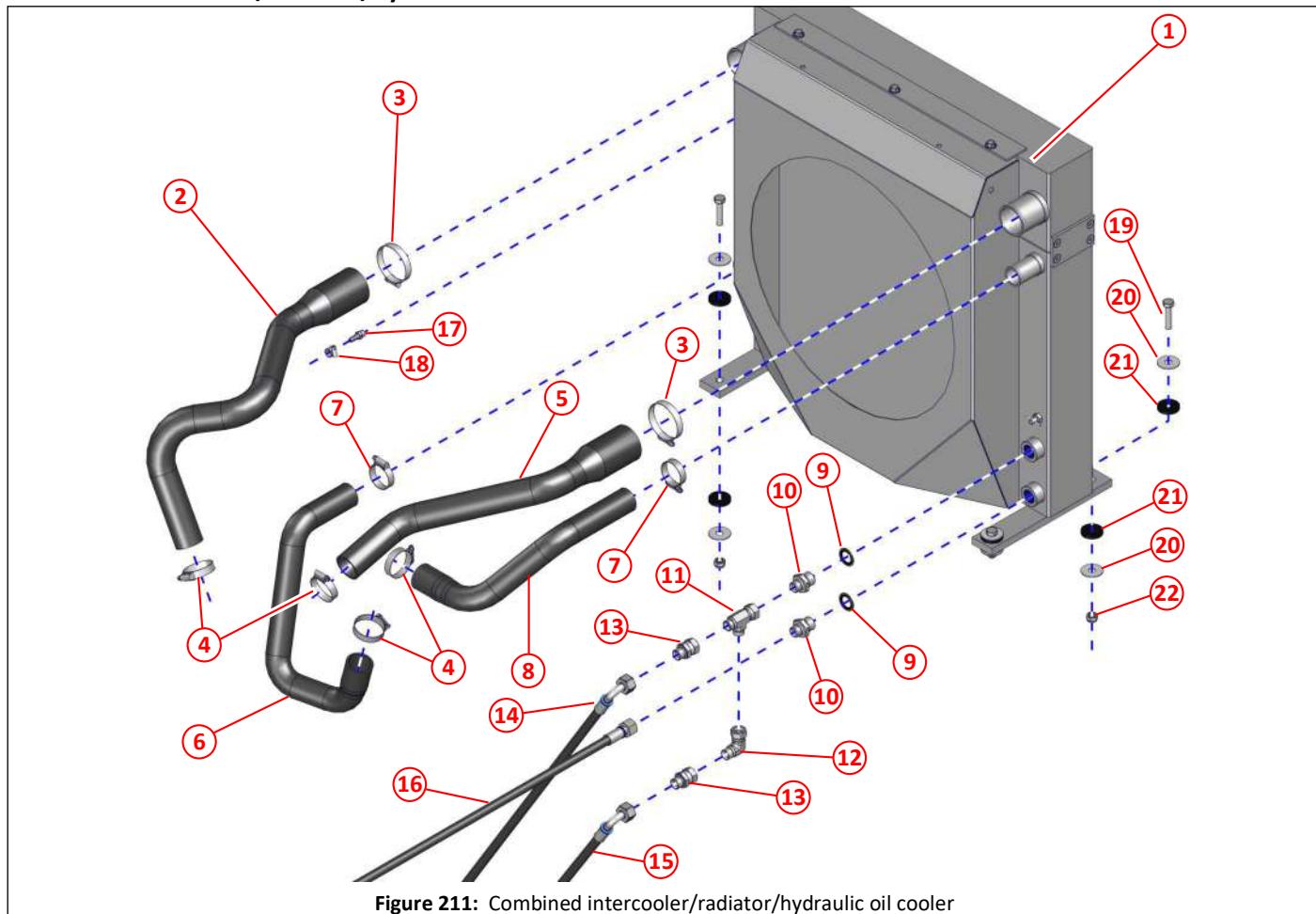


Figure 210: Fan wash assist

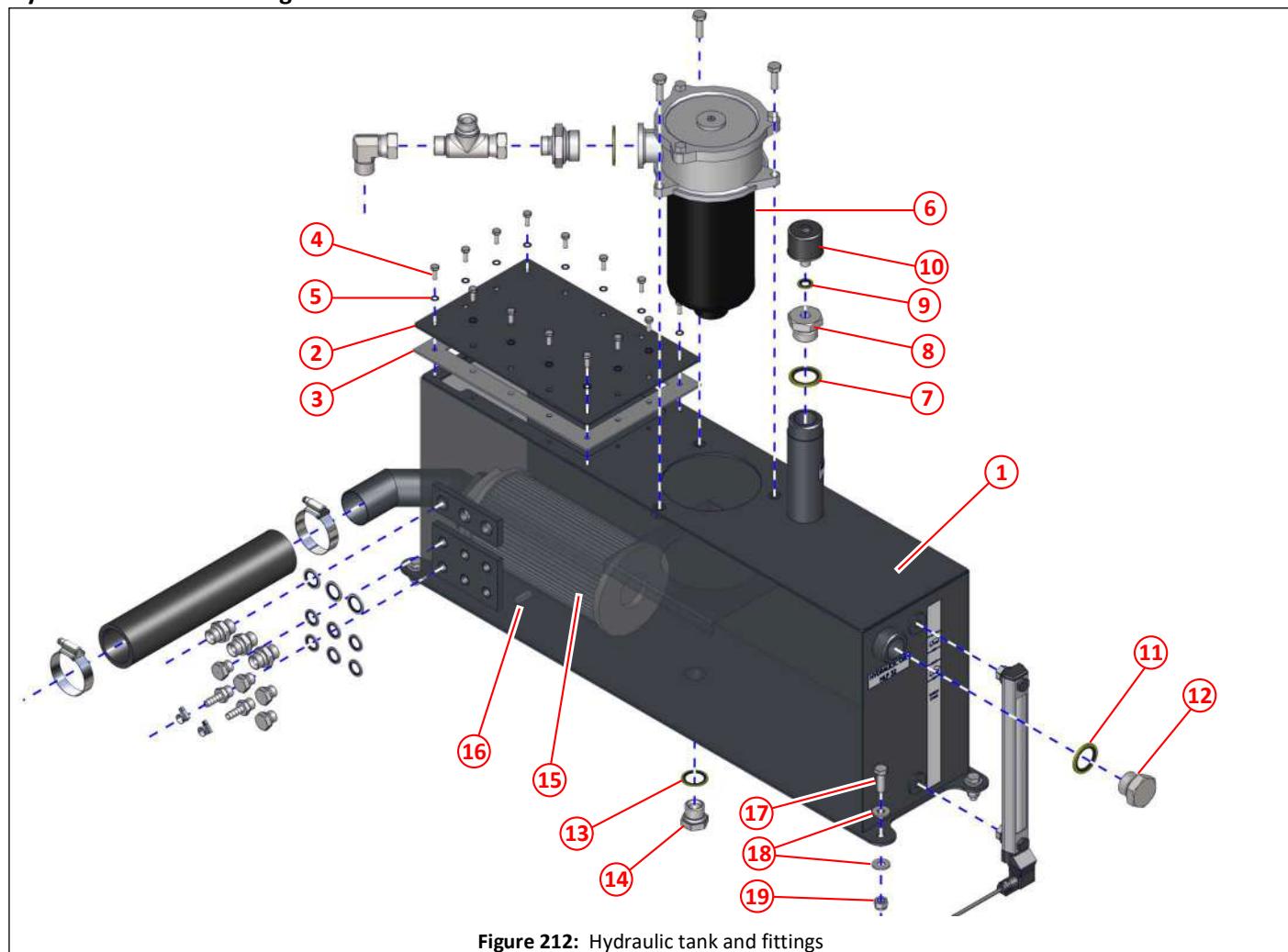
Item	Part No	Qty	Description	
①	030731	1	Cover, fan clear, quick release	164
②	010112	1	Nozzle body	
③	012926	1	Spray jet	
④	030951	1	Nozzle cap	
⑤	030507	1	Complete spray jet assembly, contains items ②, ③ and ④	
⑥	011152	5	Dowty seal $\frac{1}{4}$ " BSP	
⑦	011158	4	Adapter, M/M, $\frac{1}{4}$ " BSP	
⑧	012985	1	Quick release coupling, $\frac{1}{4}$ " BSP	
⑨	001002	1	Hose $\frac{1}{4}$ " BSP x 3700, straight ends	
⑩	011171	2	Elbow, swivel, M/F, $\frac{1}{4}$ " BSP	
⑪	012548	1	Angle bracket	
⑫	011010	1	Set screw M8 x 20	
⑬	011092	1	Plain washer M8	
⑭	011073	1	Nyloc nut M8	
⑮	011257	1	Valve, ball, $\frac{1}{4}$ " BSP, high pressure	
⑯	039547	1	Label - High pressure spray	
⑰	001027	1	Hose $\frac{1}{4}$ " BSP x 1270, straight ends	
⑱	011165	1	Adapter, M/M, $\frac{1}{2}$ " BSP x $\frac{1}{4}$ " BSP	
⑲	011178	1	Adapter, $\frac{1}{2}$ " BSP, nut/nut	
⑳	011182	1	Tee, $\frac{1}{2}$ " BSP, nut on run	

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Clamp blocks, steel pipes, suction fan and rear door open/close/lock	289

Combined intercooler/radiator/hydraulic oil cooler



Item	Part No	Qty	Description	
①	042800	1	Combined intercooler/radiator/hydraulic oil cooler	348
②	042893	1	Intercooler hose 'A'	
③	010595	2	Hose clamp, worm drive, No 3 ($\phi 55-\phi 70$)	
④	012927	5	Hose clamp, worm drive, No 2 ($\phi 40-\phi 55$)	
⑤	042894	1	Intercooler hose 'B'	
⑥	042896	1	Coolant hose 'B'	
⑦	003007	2	Hose clamp, worm drive, No 2A ($\phi 35-\phi 50$)	
⑧	042895	1	Coolant hose 'A'	
⑨	002082	2	Dowty Seal M26	
⑩	002074	2	Adapter, M/M, M26 x $\frac{1}{2}$ " BSP	
⑪	011182	1	Tee, $\frac{1}{2}$ " BSP, nut on run	
⑫	011173	1	Elbow, swivel, M/F, $\frac{1}{2}$ " BSP	
⑬	011177	2	Adapter, swivel, M/F $\frac{1}{2}$ " BSP	
⑭	001328	1	Hose, $\frac{1}{2}$ " BSP x 810, straight and 90° ends, to Port T2 on main valve block	
⑮	001271	1	Hose, $\frac{1}{2}$ " BSP x 960, straight and 90° ends, to Port T1 on main valve block	
⑯	001308	1	Hose, $\frac{1}{2}$ " BSP x 2200, straight ends, from tank	
⑰	006044	1	Adapter, $\frac{1}{4}$ " BSP male x 8mm hose tail	
⑱	010516	1	Hose clamp, worm drive, No M00 ($\phi 11-\phi 16$)	
⑲	000024	4	Set screw M12 x 50	
⑳	013448	8	Washer $\phi 13 \times \phi 40 \times 2$	
㉑	012969	8	Rubber washer, $\phi 12 \times \phi 40 \times 6$	
㉒	011077	4	Nyloc nut M12	

Hydraulic tank and fittings

Figure 212: Hydraulic tank and fittings

Item	Part No	Qty	Description	
(1)	042818	1	Oil tank, hydraulic	339,250
(2)	042824	1	Lid, oil tank	
(3)	042866	1	Gasket, oil tank	
(4)	011001	14	Set screw M6 x 16	
(5)	000309	14	Lock washer, M6, zinc	
(6)	013123	1	Filter, return, includes filter element	250
(7)	011156	1	Dowty seal 1" BSP	
(8)	020689	1	Filler plug	
(9)	011152	1	Dowty seal $\frac{1}{4}$ " BSP	
(10)	020688	1	Filter, air breather	
(11)	011156	1	Dowty seal 1" BSP	
(12)	011136	1	Plug 1" BSP	
(13)	011155	1	Dowty seal $\frac{3}{4}$ " BSP	
(14)	011244	1	Plug $\frac{3}{4}$ " BSP	
(15)	020687	1	Filter. element, suction	
(16)	010305	1	Magnet	
(17)	011032	4	Set screw M10 x 30	
(18)	011094	8	Plain washer M10	
(19)	011075	4	Nyloc nut M10	

Hydraulic tank and fittings

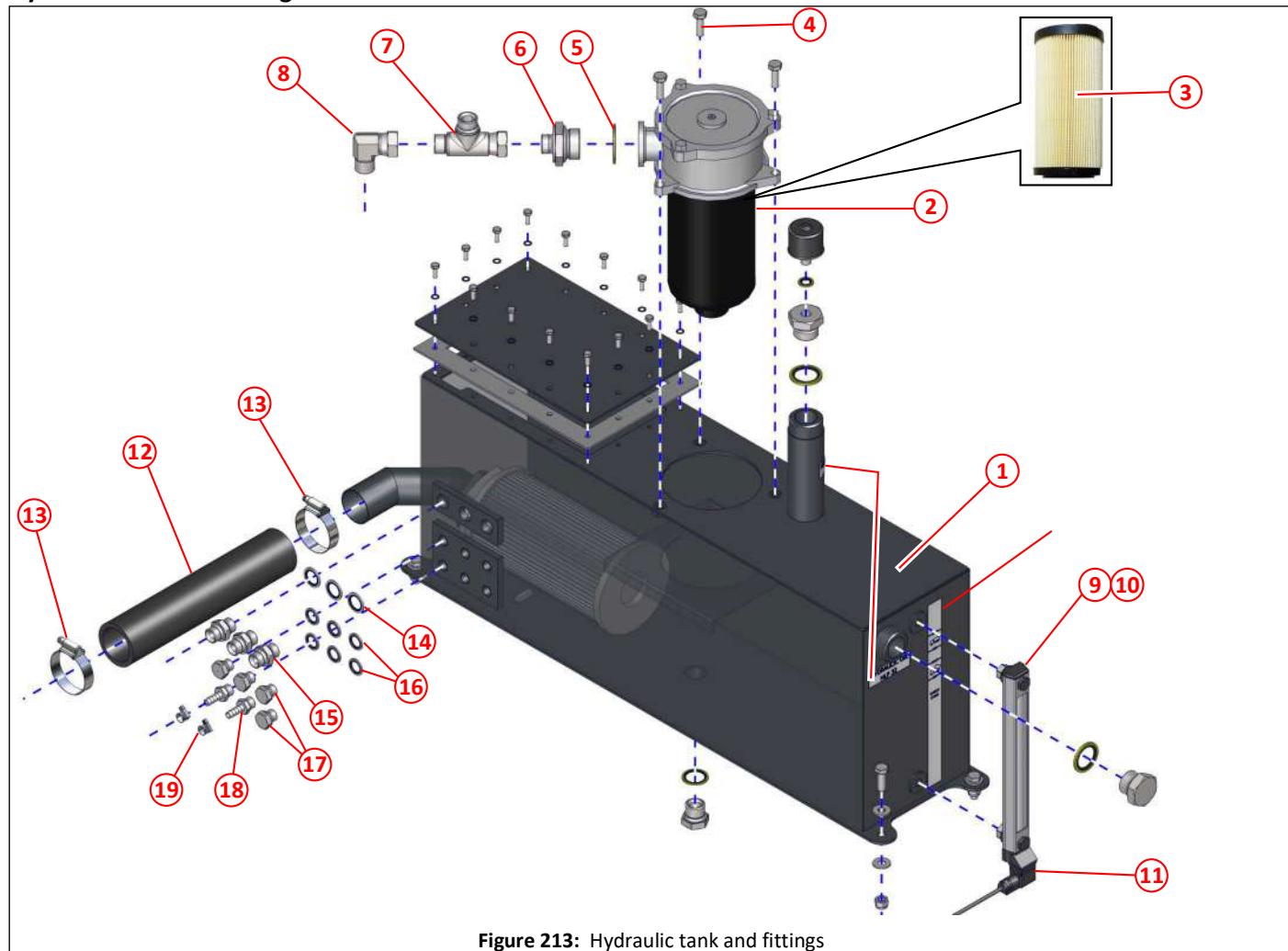
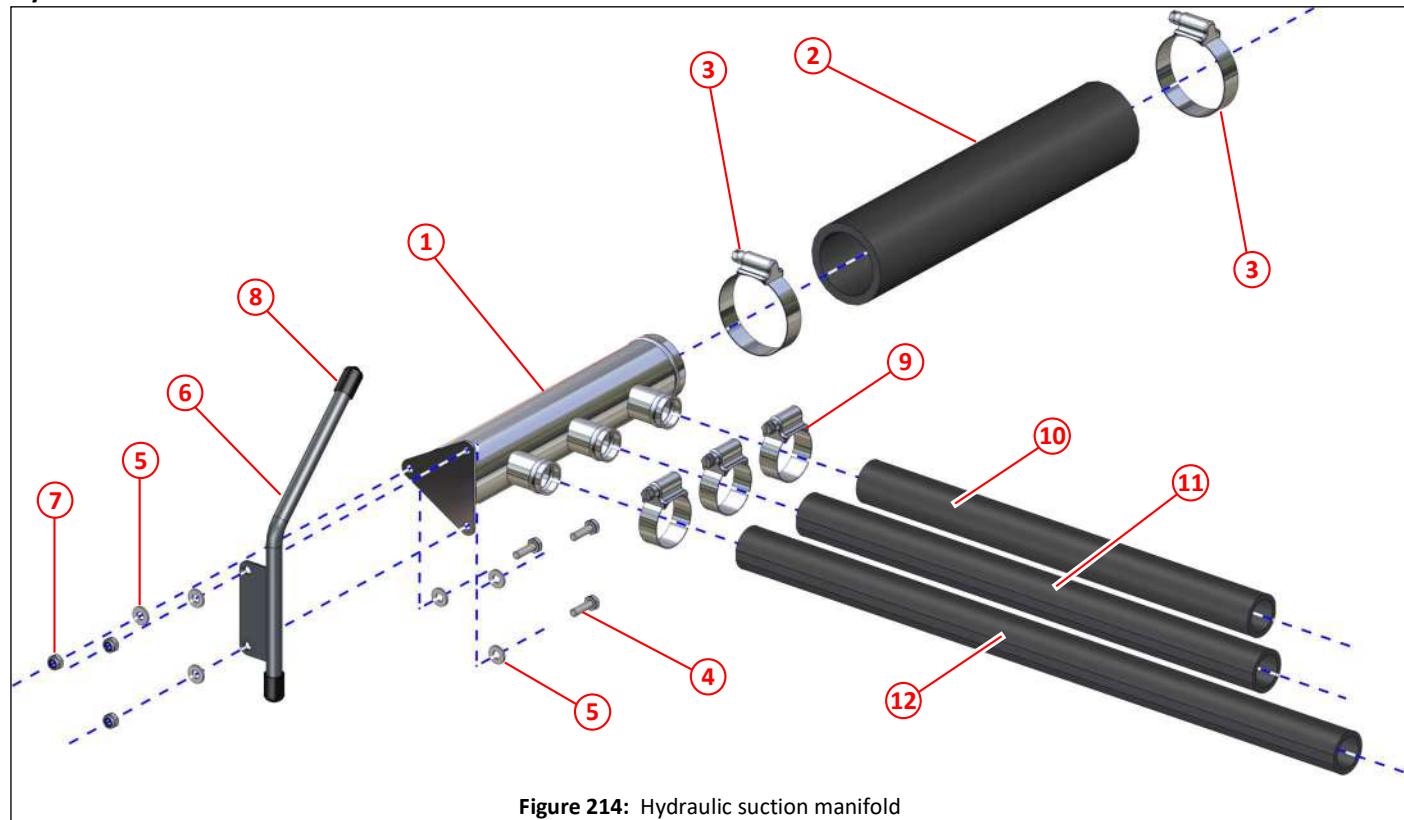


Figure 213: Hydraulic tank and fittings

Item	Part No	Qty	Description	
①	042818	1	Oil tank, hydraulic	339,249
②	013123	1	Filter, return, includes filter element	
③	013125	1	Element, return filter	
NI	024405	1	Seal kit, return filter	
④	011032	3	Set screw M10 x 30	
⑤	011150	1	Dowty seal 1¼" BSP	
⑥	011184	1	Adapter 1¼" BSP x ¾" BSP reducer	
⑦	011197	1	Tee, ¾" BSP, nut on run, branch return from suction fan circuit	
⑧	011174	1	Elbow, swivel, ¾" BSP, connection return from suction fan	
⑨	024039	1	Level gauge, with switch and fitting screws	
⑩	021979	2	Sealing washer	
⑪	036842	1	M12 plug/cable and valve, plug type B	
⑫	031272	1	Hose 2" x 300, suction, to hydraulic suction manifold	251
⑬	029778	2	Hose clamp, worm drive, high torque, (ø40-ø70)	
⑭	011154	3	Dowty seal ½" BSP	
⑮	011160	3	Adapter, M/M, ½" BSP	
⑯	011153	6	Dowty seal ¾" BSP	
⑰	011242	4	Plug ¾" BSP	
⑱	010923	2	Adapter, ¾" BSP x ¾" hose tail	
⑲	010516	2	Hose clamp, worm drive, No. M00 (ø11mm-ø16mm)	

Hydraulic suction manifold

Figure 214: Hydraulic suction manifold

Item	Part No	Qty	Description
①	043305	1	Manifold, hydraulic suction
②	031272	1	Hose 2" x 300, suction, from hydraulic oil tank
③	029778	2	Hose clamp, worm drive, high torque, ($\phi 40-\phi 70$)
④	011067	3	Set screw M6 x 20
⑤	011090	6	Plain washer M6
⑥	043362	1	Bracket, loom rail
⑦	011071	3	Nyloc nut M6
⑧	043065	2	Pipe cap, $\phi 12$
⑨	014828	3	Hose clamp, worm drive, high torque, ($\phi 25-\phi 40$)
⑩	043769	1	Hose, supply from manifold to fan pump
⑪	043770	1	Hose, supply from manifold to gear pump 1
⑫	043771	1	Hose, supply from manifold to gear pump 2

Fan pump and gear pumps, general arrangement

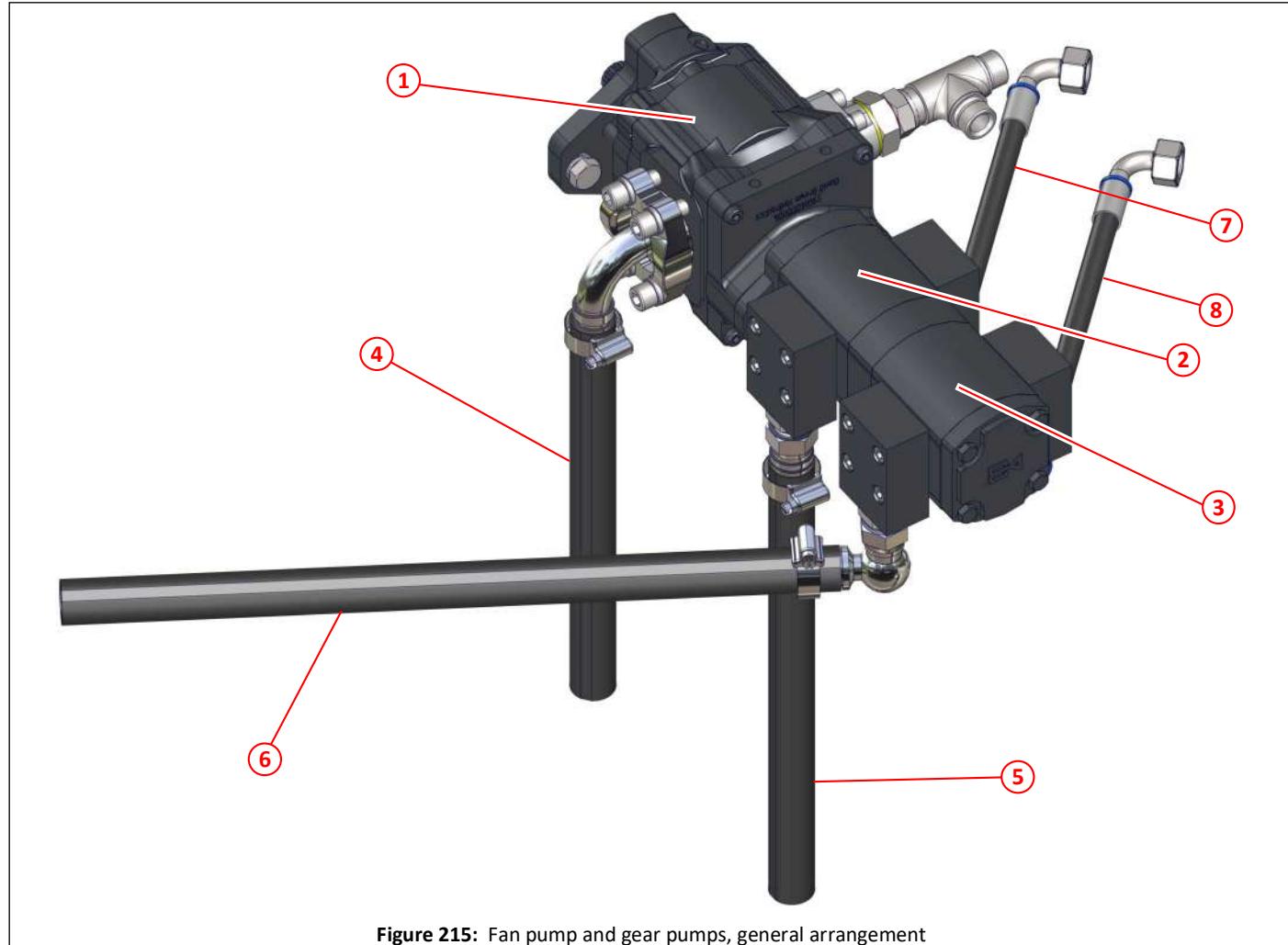
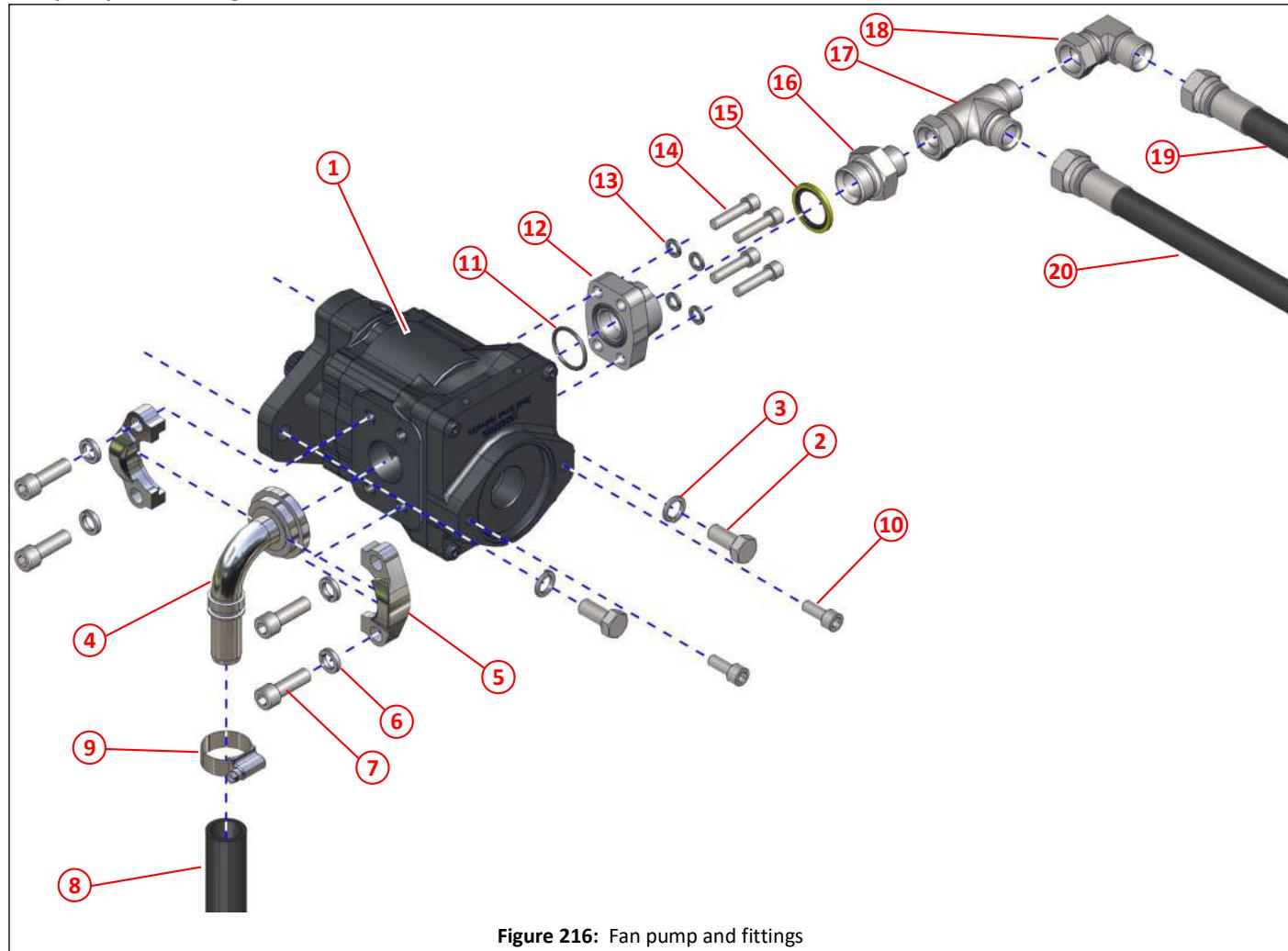


Figure 215: Fan pump and gear pumps, general arrangement

Item	Part No	Qty	Description	
①	043301	1	Fan pump	253
②			Gear pump 1	254
③			Gear pump 2	254
④	043769	1	Hose, supply from manifold to fan pump	
⑤	043770	1	Hose, supply from manifold to gear pump 1	
⑥	043771	1	Hose, supply from manifold to gear pump 2	
⑦	001261	1	Hose, $\frac{1}{2}$ " BSP x 350, 90°/90° 270° rotation. to flow control valve block Port P1	
⑧	001261	1	Hose, $\frac{1}{2}$ " BSP x 350, 90°/90° 270° rotation, to flow control valve block Port P2	

Fan pump and fittings

Figure 216: Fan pump and fittings

Item	Part No	Qty	Description	
①	043301	1	Fan pump	252
②	000477	2	Set screw M14 x 30	
③	011106	2	Spring washer M14	
④	011231	1	Elbow, swept, 1½" SAE x 1" hose tail	
⑤	011230	2	Flange, split, 1½" SAE	
⑥	011046	4	Spring washer, ½"	
⑦	011108	4	Socket cap head screw ½" UNC X 1½"	
⑧	043769	1	Hose, supply from manifold to fan pump	
⑨	014828	1	Hose clamp, worm drive, high torque, (Ø25-Ø40)	
⑩	011028	2	Socket cap head screw M10 x 25	
⑪	013517	1	'O' ring 1" SAE BS 219	
⑫	014105	1	Flange, 1" SAE x 1" BSP	
⑬	011406	4	Spring washer ¾" BSP	
⑭	000045	4	Socket cap head screw ¾" UNC x 1½"	
⑮	011156	1	Dowty seal 1" BSP	
⑯	011193	1	Adapter, M/M, 1" x ¾" BSP	
⑰	011197	1	Tee, ¾" BSP, nut on run	
⑱	011174	1	Elbow, swivel ¾" BSP	
⑲	001311	1	Hose, 5/8" BSP x 5700, ¾" BSP straight ends, to pipe connection at bottom of hopper for fan	
⑳	001310	1	Hose 5/8" BSP x 1630, ¾" BSP straight ends, to fan circuit valves	257,

Gear pumps and fittings

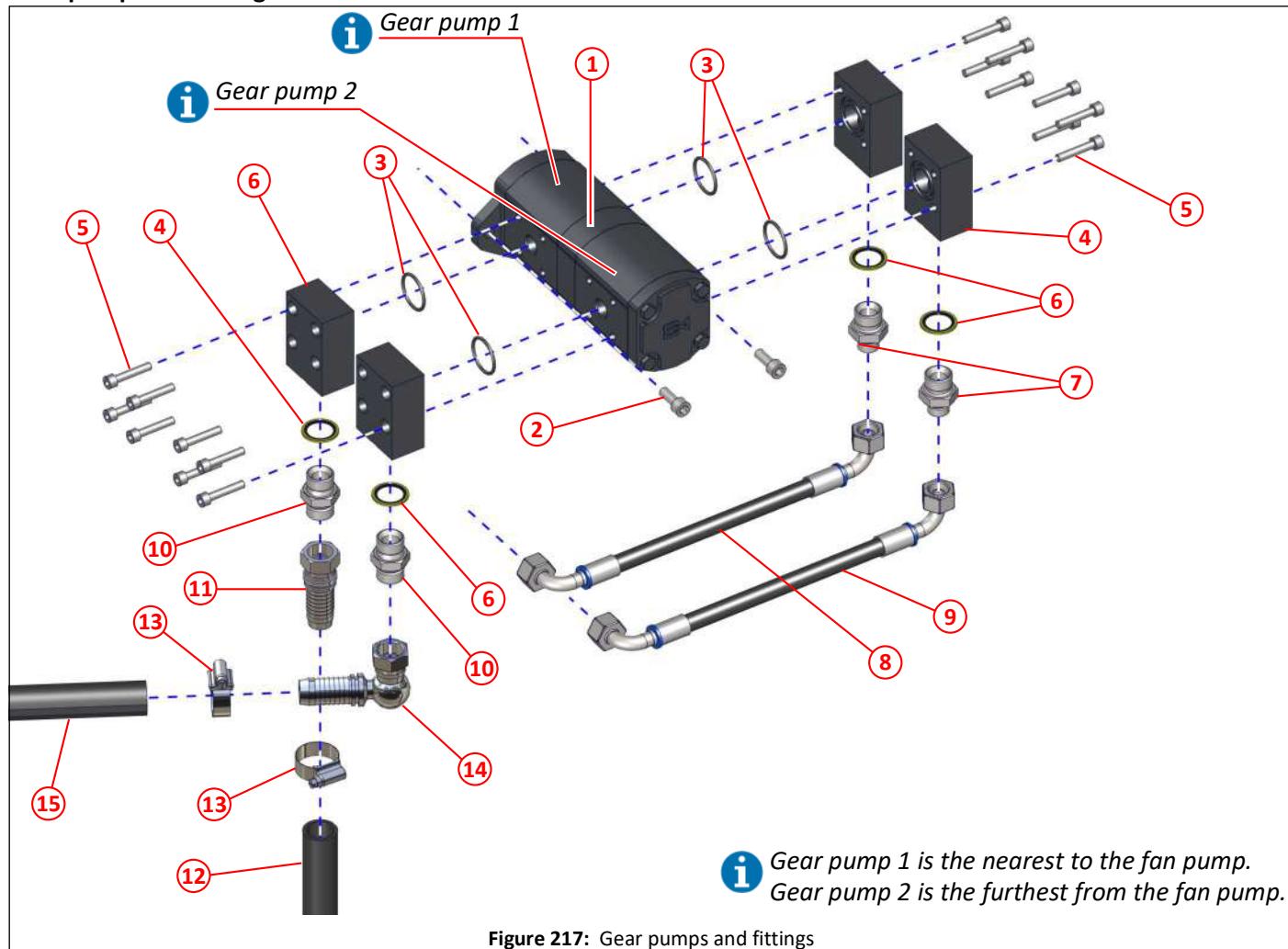
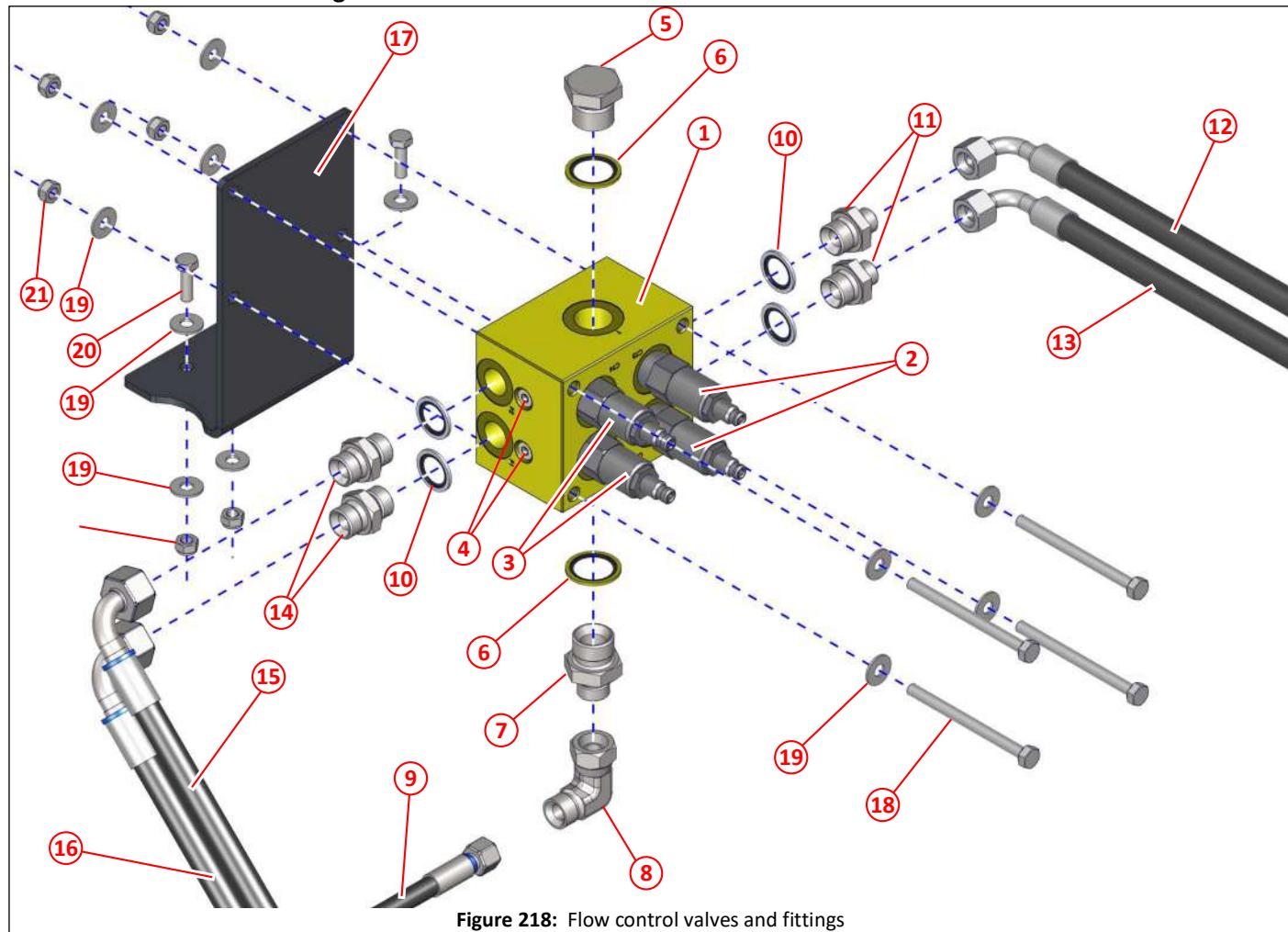


Figure 217: Gear pumps and fittings

Item	Part No	Qty	Description	
①	031970 *	1	Gear pump 23cc double	252
②	011028	2	Socket cap head screw M10 x 25	
③	013517	1	'O' ring 1" SAE BS 219	
④	026335	4	Adapter block, gear pump	
⑤	000096	16	Socket cap head screw M8 x 40	
⑥	011155	4	Dowty seal $\frac{3}{4}$ " BSP	
⑦	011166	2	Adapter, M/M, $\frac{3}{4}$ " BSP x $\frac{1}{2}$ " BSP	
⑧	001261	1	Hose, $\frac{1}{2}$ " BSP x 350, 90°/90° 270°. to flow control valve block Port P1	
⑨	001261	1	Hose, $\frac{1}{2}$ " BSP x 350, 90°/90° 270°, to flow control valve block Port P2	
⑩	011161	2	Adapter, M/M, $\frac{3}{4}$ " BSP	
⑪	002084	1	Adapter, $\frac{3}{4}$ " BSPF x 1" hose tail	
⑫	043770	1	Hose, supply from manifold to gear pump 1	
⑬	014828	2	Hose clamp, worm drive, high torque, (\varnothing 25- \varnothing 40)	
⑭	002203	1	Elbow, $\frac{3}{4}$ " BSP x 1" hose tail	
⑮	043771	1	Hose, supply from manifold to gear pump 2	

NI *	030629	1	Seal kit, gear pump 23cc double
*	031971	1	Gear pump 23cc single
NI *	030628	1	Seal kit, gear pump 23cc single

Flow control valves and fittings

Figure 218: Flow control valves and fittings

Item	Part No	Qty	Description
①	038513	1	Flow control valve block, dual, remote mounted, includes items ②, ③ and ④
②	040288	2	Flow regulator (PFR2-10-S-0.90.00)
③	039063	2	Relief valve (RV1-10-S-36/30.5)
④	039061	2	Plug, hex, hollow, $\frac{1}{4}$ " SAE
⑤	011244	1	Plug $\frac{3}{4}$ " BSP
⑥	011155	2	Dowty seal $\frac{3}{4}$ " BSP
⑦	011166	1	Adapter, M/M, $\frac{3}{4}$ " BSP x $\frac{1}{2}$ " BSP
⑧	011173	1	Elbow, swivel, M/F, $\frac{1}{2}$ " BSP
⑨	001037	1	Hose, $\frac{1}{4}$ " x 2650, $\frac{1}{2}$ " BSP straight and 90° ends, to oil tank
⑩	011154	4	Dowty seal $\frac{1}{2}$ " BSP
⑪	011167	2	Adapter, M/M, $\frac{1}{2}$ " BSP x $\frac{3}{8}$ " BSP
⑫	002092	1	Hose, $\frac{3}{8}$ " x 340, $\frac{3}{8}$ " BSP straight and 90° ends, from port B to top hydraulic filter
⑬	001327	1	Hose, $\frac{3}{8}$ " x 310, 90° ends, 180° rotation, from port A to lower hydraulic filter
⑭	011160	2	Adapter, M/M, $\frac{1}{2}$ " BSP
⑮	001261	1	Hose, $\frac{1}{2}$ " BSP x 350, 90°/90° 270°. from gear pump 2 to flow control valve block Port P2
⑯	001261	1	Hose, $\frac{1}{2}$ " BSP x 350, 90°/90° 270°, from gear pump 2 to flow control valve block Port P1
⑰	043123	1	Bracket, remote flow control
⑱	011020	4	Bolt M8 x 100
⑲	011092	12	Plain washer M8
⑳	011011	2	Set screw M8 x 25
㉑	011073	6	Nyloc nut M8

Hydraulic high pressure oil filters and fittings

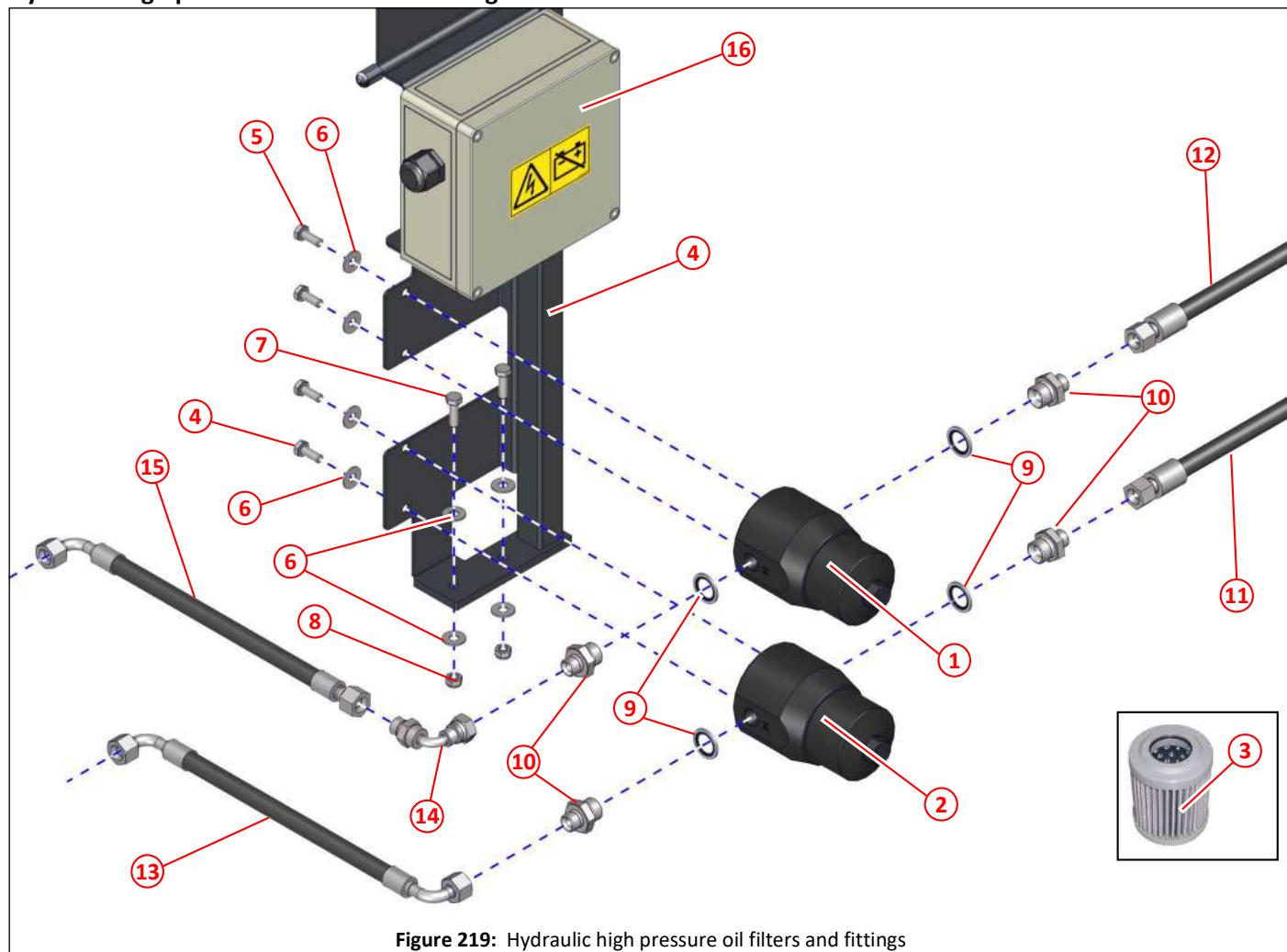


Figure 219: Hydraulic high pressure oil filters and fittings

Item	Part No	Qty	Description
①	025103	1	Filter, high pressure, complete with filter element, for option valve block
②	025103	1	Filter, high pressure, complete with filter element, for main valve block
③	025104	1	Filter element for 025103
④	042957	1	Bracket, junction box and filters
⑤	011010	4	Set screw M8 x 20
⑥	011092	8	Plain washer M8
⑦	011011	2	Set screw M8 x 25
⑧	011073	2	Nyloc nut M8
⑨	011154	4	Dowty seal $\frac{1}{2}$ " BSP
⑩	011167	4	Adapter, M/M, $\frac{1}{2}$ " BSP x $\frac{3}{8}$ " BSP
⑪	011306	1	Hose, $\frac{3}{8}$ " x 1400, $\frac{3}{8}$ " BSP straight ends, to Port P on main valve block
⑫	001167	1	Hose, $\frac{3}{8}$ " x 1200, $\frac{3}{8}$ " BSP straight ends, to Port P on options valve block
⑬	001327	1	Hose, $\frac{3}{8}$ " x 310, 90° ends, 180° rotation, from Port A on flow control block
⑭	011221	1	Elbow, swept, M/F, $\frac{3}{8}$ " BSP
⑮	002092	1	Hose, $\frac{3}{8}$ " x 340, $\frac{3}{8}$ " BSP straight and 90° ends, from Port B on flow control block
⑯	043380	1	Junction box assembly, 24v
⑯	044537	1	Junction box assembly, 12v

Suction fan and suction nozzle tilt control circuits, general arrangement

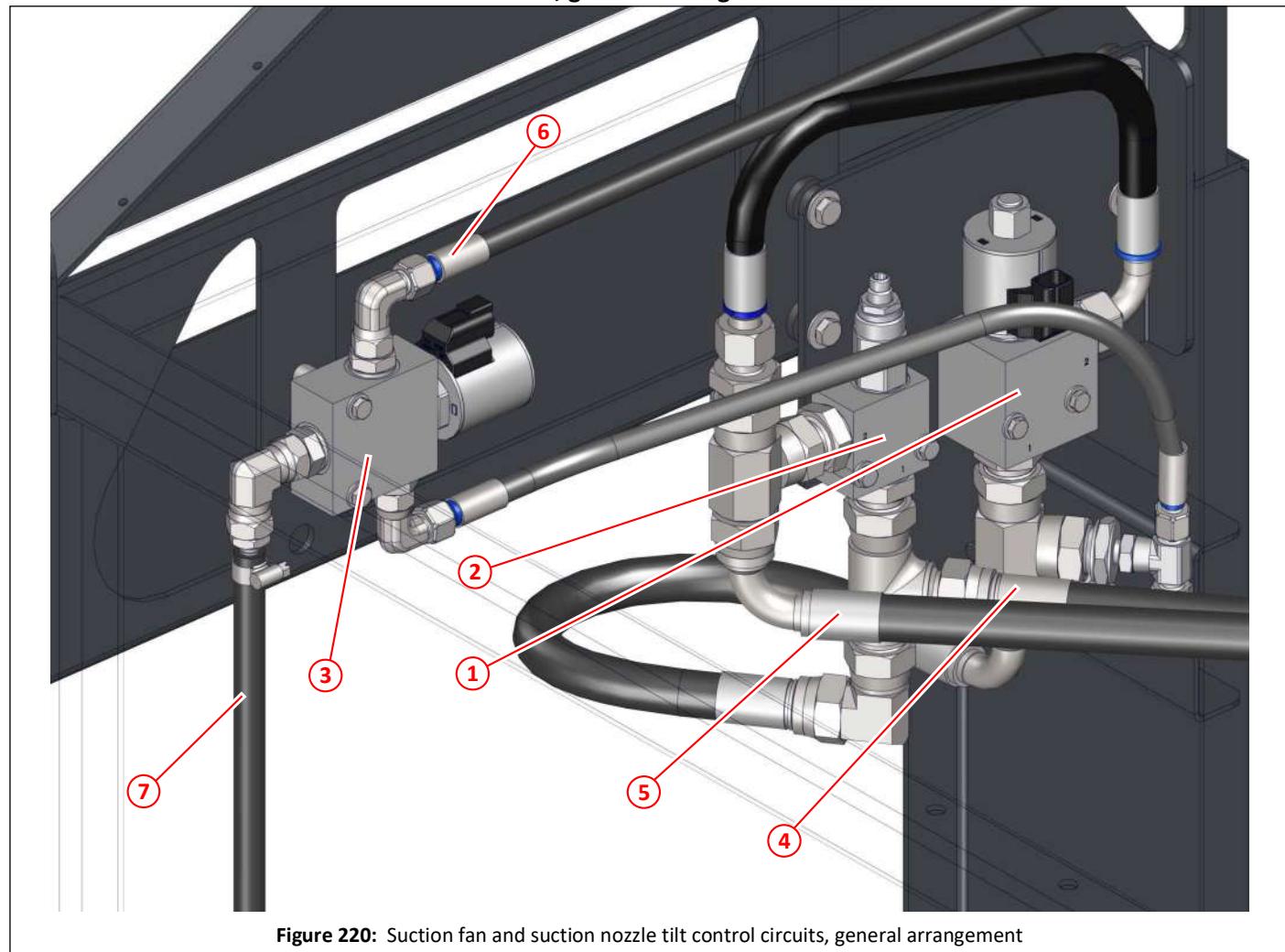


Figure 220: Suction fan and suction nozzle tilt control circuits, general arrangement

Item	Part No	Qty	Description	
①		1	Dump valve, suction fan control	258, 259
②	041951	1	Relief valve, suction fan control	258, 259
③	041953	1	Control valve, suction nozzle tilt, 24v	260
④	044490	1	Control valve, suction nozzle tilt, 12v	260
⑤	001310	1	Hose $\frac{5}{8}$ " x 1630, $\frac{3}{4}$ " BSP straight ends, from suction fan pump	253
⑥	001306	1	Hose $\frac{5}{8}$ " x 1530, $\frac{5}{8}$ " BSP straight and 90° ends, to return filter on oil tank	249, 250
⑦	001151	1	Hose $\frac{1}{4}$ " x 3040, $\frac{1}{4}$ " BSP straight and 90° ends with 6mm elbow, to suction nozzle tilt ram(s)	
⑦	010958	As req	Hose $\frac{3}{8}$ ", return to tank	

Suction fan control circuit

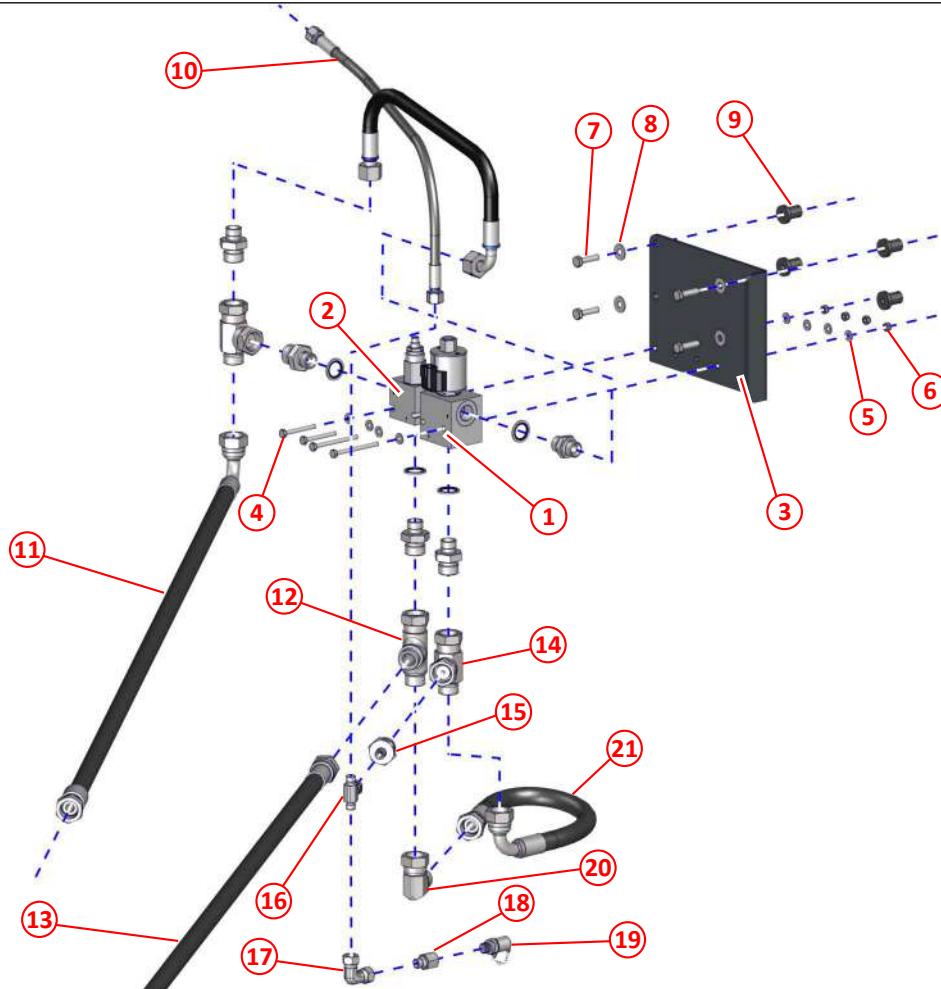
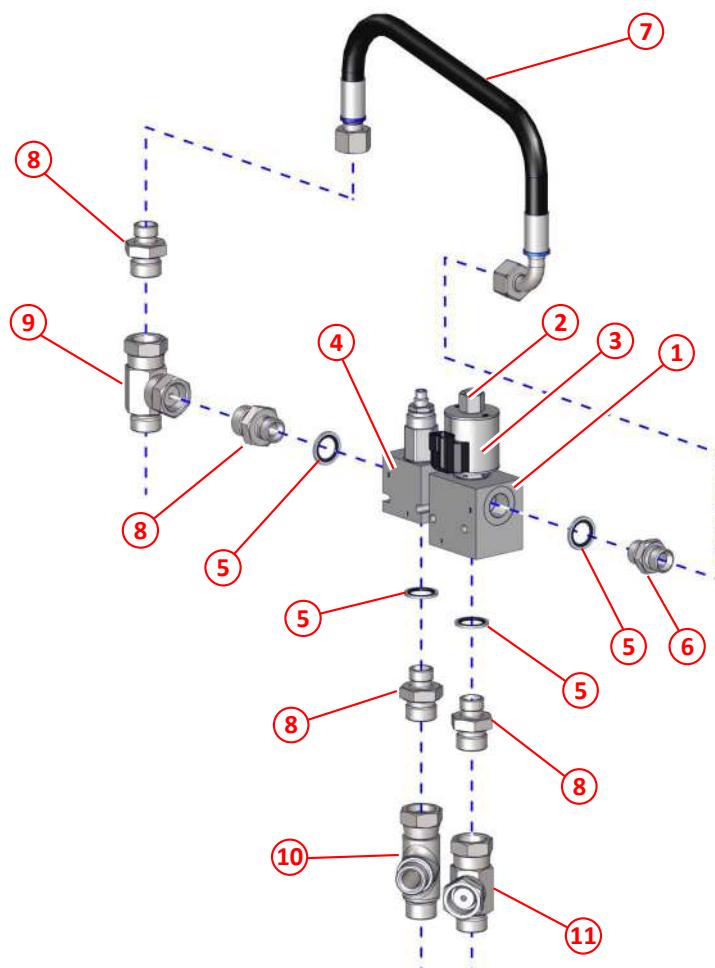


Figure 221: Suction fan control circuit

Item	Part No	Qty	Description	
①		1	Dump valve, suction fan control	259
②	041951	1	Relief valve, suction fan control	259
③	042491	1	Mounting bracket, suction fan control	
④	011003	4	Set screw M6 x 50	
⑤	011090	8	Plain washer M6	
⑥	011071	4	Nyloc nut M6	
⑦	011012	4	Set screw M8 x 30	
⑧	011092	4	Plain washer M8	
⑨	0393392	4	Fastener, M8, Flex-loc anti-vibration	
⑩	010990	1	Hose $\frac{1}{4}$ " x 600, $\frac{1}{4}$ " BSP straight ends, to suction nozzle tilt control	260
⑪	001306	1	Hose $\frac{5}{8}$ " x 1530, $\frac{5}{8}$ " BSP straight and 90° ends, to return filter on oil tank	
⑫	011197	1	Tee, $\frac{3}{4}$ " BSP, nut on run	
⑬	001310	1	Hose $\frac{5}{8}$ " x 1630, $\frac{3}{4}$ " BSP straight ends, from suction fan pump	
⑭	002233	1	Tee, M/F/F, $\frac{3}{4}$ " BSP, nut on branch and on run	
⑮	011164	1	Adapter, M/M, $\frac{3}{4}$ " BSP x $\frac{3}{4}$ " BSP	
⑯	002009	1	Tee, $\frac{1}{4}$ " BSP, nut on branch	
⑰	011169	1	Elbow, swivel, F/F, $\frac{1}{4}$ " BSP	
⑱	002014	1	Adapter, Fixed M/F, $\frac{1}{4}$ " BSP	
⑲	013036	1	Test point, $\frac{1}{4}$ " BSP	
⑳	011174	1	Elbow, swivel, M/F, $\frac{3}{4}$ " BSP	
㉑	001238	1	Hose $\frac{5}{8}$ " x 420, $\frac{3}{4}$ " BSP straight and 90° ends	

Suction fan control circuit

Figure 222: Suction fan control circuit

Item	Part No	Qty	Description
①	041952	1	Dump valve, suction fan control, complete with items ② and ③, 24v
①	044488	1	Dump valve, suction fan control, complete with items ② and ③, 12v
②	044498	1	Solenoid HSV10-29-0-U-00
③	044048	1	Coil, 4304124 E SERIES, 24v
③	041224	1	Coil, 4304112 E SERIES, 12v
④	041951	1	Relief valve, suction fan control
⑤	011154	4	Dowty seal $\frac{1}{2}$ " BSP
⑥	011160	1	Adapter, M/M, $\frac{1}{2}$ " BSP
⑦	001075	1	Hose, $\frac{1}{2}$ " x 500, $\frac{1}{2}$ " BSP straight and 90° ends
⑧	011166	4	Adapter, M/M, $\frac{3}{4}$ " BSP X $\frac{1}{2}$ " BSP
⑨	002233	1	Tee, M/F/F, $\frac{3}{4}$ " BSP, nut on branch and on run
⑩	011197	1	Tee, $\frac{3}{4}$ " BSP, nut on run
⑪	002233	1	Tee, M/F/F, $\frac{3}{4}$ " BSP, nut on branch and on run

Suction nozzle tilt control valve

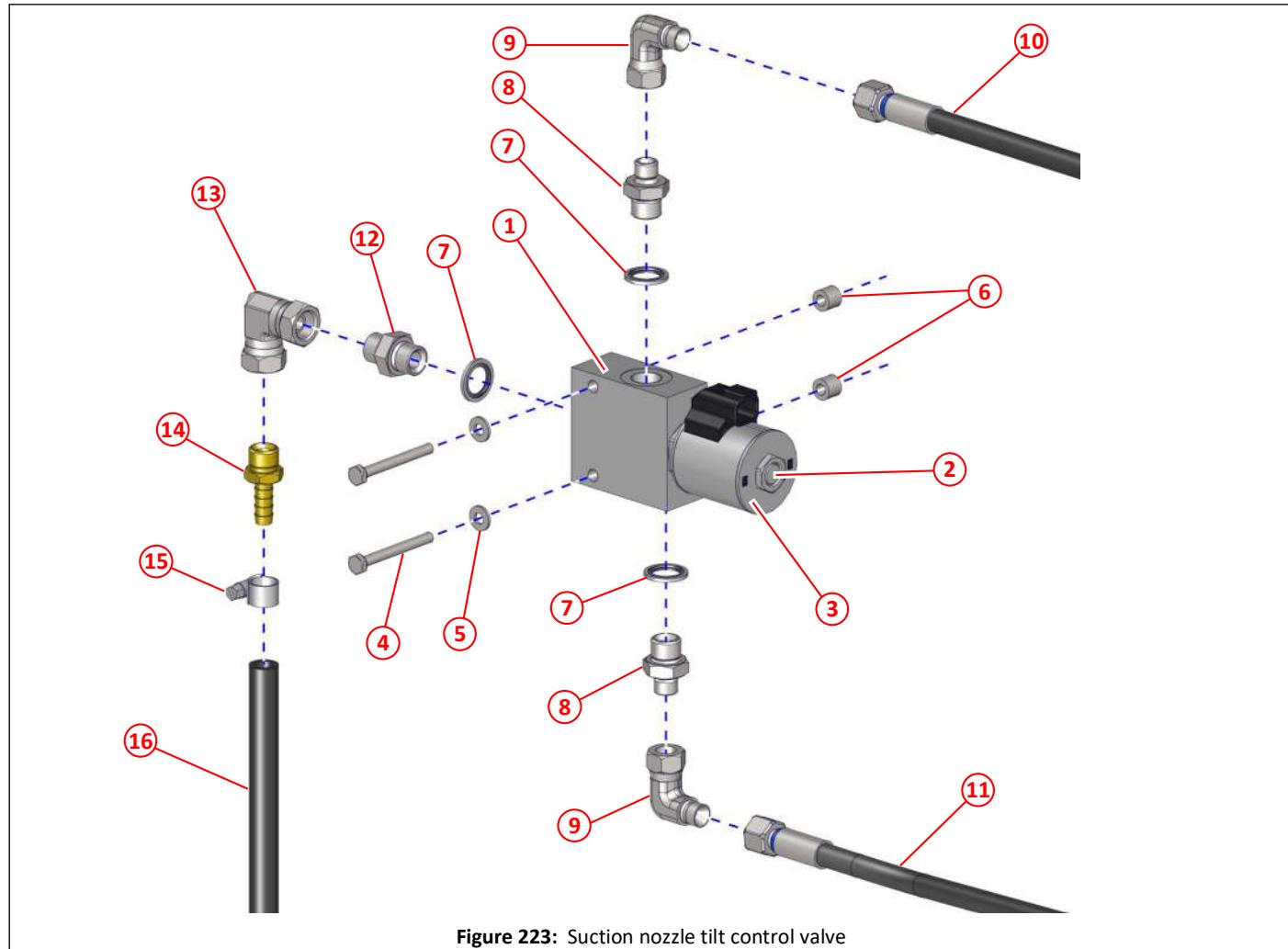


Figure 223: Suction nozzle tilt control valve

Item	Part No	Qty	Description	
①	041953	1	Control valve, suction nozzle tilt, includes items ② and ③, 24v	257
①	044490	1	Control valve, suction nozzle tilt, includes items ② and ③, 12v	257
②	044499	1	Solenoid SV58-30-0-P-00	
③	044048	1	Coil, 4304124 E SERIES, 24v	
③	044497	1	Coil, 4392692 E SERIES, 12v	
④	000018	2	Set screw M6 x 55	
⑤	011090	2	Plain washer M6	
⑥	013344	2	Spacer, Ø6.5 x Ø12 x 10	
⑦	011153	3	Dowty seal $\frac{3}{8}$ " BSP	
⑧	011199	2	Adapter, M/M, $\frac{3}{8}$ " BSP x $\frac{1}{4}$ " BSP	
⑨	011171	2	Elbow, swivel, M/F, $\frac{1}{4}$ " BSP	
⑩	001151	1	Hose $\frac{1}{4}$ " x 3040, $\frac{1}{4}$ " BSP straight and 90° ends with 6mm elbow, to suction nozzle tilt ram(s)	
⑪	010990	1	Hose $\frac{1}{4}$ " x 600, $\frac{1}{4}$ " BSP straight ends, to Tee on suction fan control circuit, by test point	
⑫	011159	1	Adapter, M/M, $\frac{3}{8}$ " BSP	
⑬	011205	1	Elbow, swivel, F/F, $\frac{3}{8}$ " BSP	
⑭	010923	1	Adapter $\frac{3}{8}$ " BSP X $\frac{3}{8}$ " hose tail	
⑮	010516	1	Hose clamp, worm drive, No. M00 (Ø11mm-Ø16mm)	
⑯	010958	As req	Hose $\frac{3}{8}$ ", return to tank	

Suction fan motor

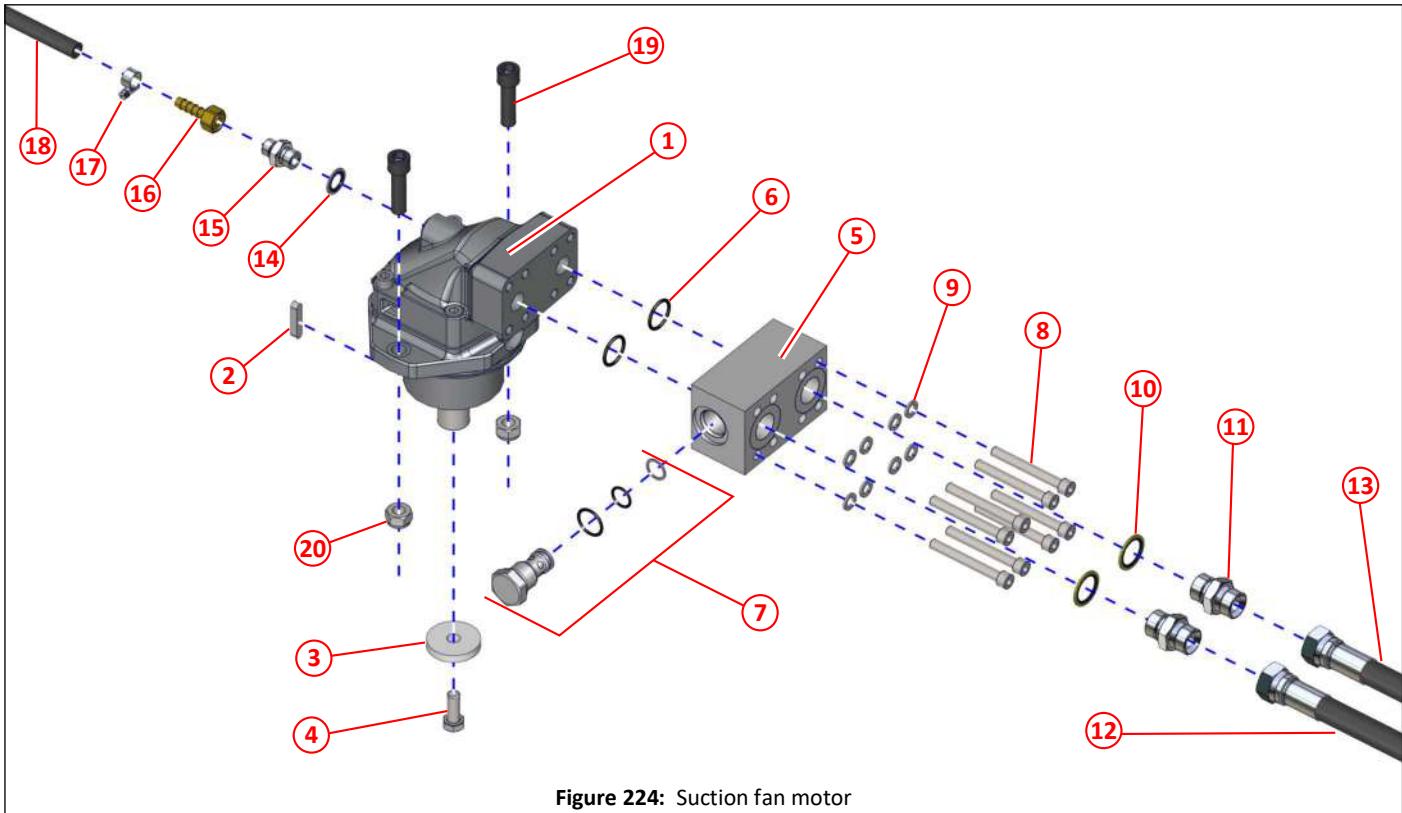


Figure 224: Suction fan motor

Item	Part No	Qty	Description	
①	024641	1	Fan motor	145
②	013292	1	Key for item ①	
③	044926	1	Washer ø12.5 x ø50 x 8, stainless steel	
④	011052	1	Set screw M12 x 30	
⑤	041633 *	1	Manifold, anti-cavitation valve	
⑥	041634 *	2	'O' ring	
⑦	041635 *	1	Check valve, includes seals and washer	
⑧	000048	8	Socket cap head screw M10 x 80	
⑨	011095	8	Spring washer M10	
⑩	011155	2	Dowty seal $\frac{3}{4}$ " BSP	
⑪	011161	2	Adapter $\frac{3}{4}$ " BSP	
⑫	001322	1	Hose $\frac{5}{8}$ " x 1550, $\frac{3}{4}$ " BSP straight ends	
⑬	001323	1	Hose $\frac{5}{8}$ " x 1700, $\frac{3}{4}$ " BSP straight ends	
⑭	011247	1	Dowty seal M18	
⑮	011248	1	Adapter M18 x $\frac{3}{8}$ " BSP	
⑯	010921	1	Adapter $\frac{3}{8}$ " BSP x $\frac{3}{8}$ " hose tail, complete with butt	
⑰	010516	1	Hose clamp, worm drive No. MOO (\varnothing 11mm- \varnothing 16mm)	
⑱	010958	As req	Hose $\frac{3}{8}$ "	
⑲	000343	2	Socket cap head bolt M14 x 50, black	
⑳	011127	2	Nyloc nut M14	

*	041564	1	Anti-cavitation valve assembly, includes items ⑤, ⑥ and ⑦
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Valve blocks, arrangement

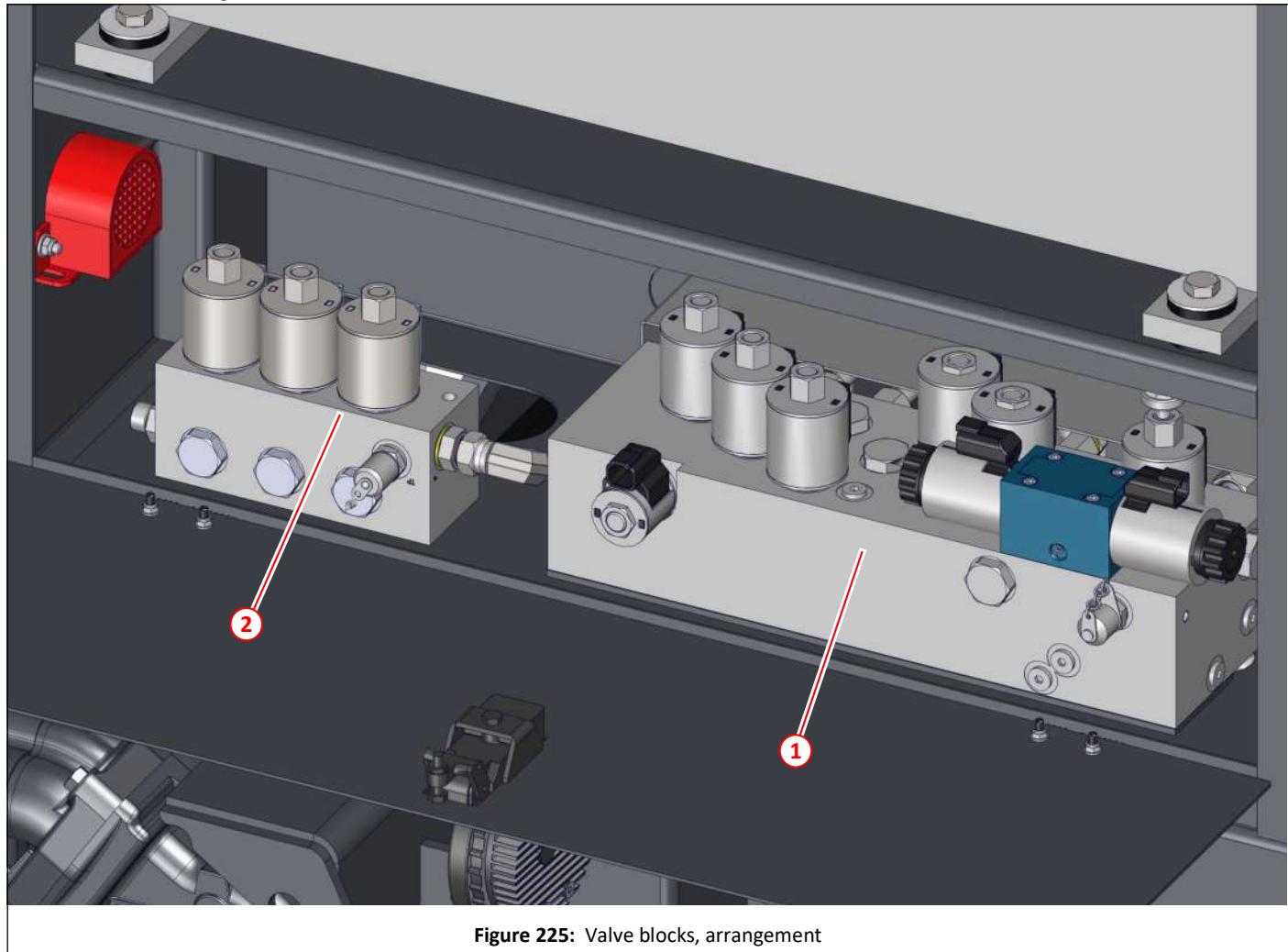


Figure 225: Valve blocks, arrangement

Item	Part No	Qty	Description	
①	042615	1	Main valve block, populated, 24v	263,265,265
①	044484	1	Main valve block, populated, 12v	263,265,265
②	042616	1	Options valve block, populated, 24v	266
②	044486	1	Options valve block, populated, 12v	266

Main valve block, coils, solenoids, check valves and plugs

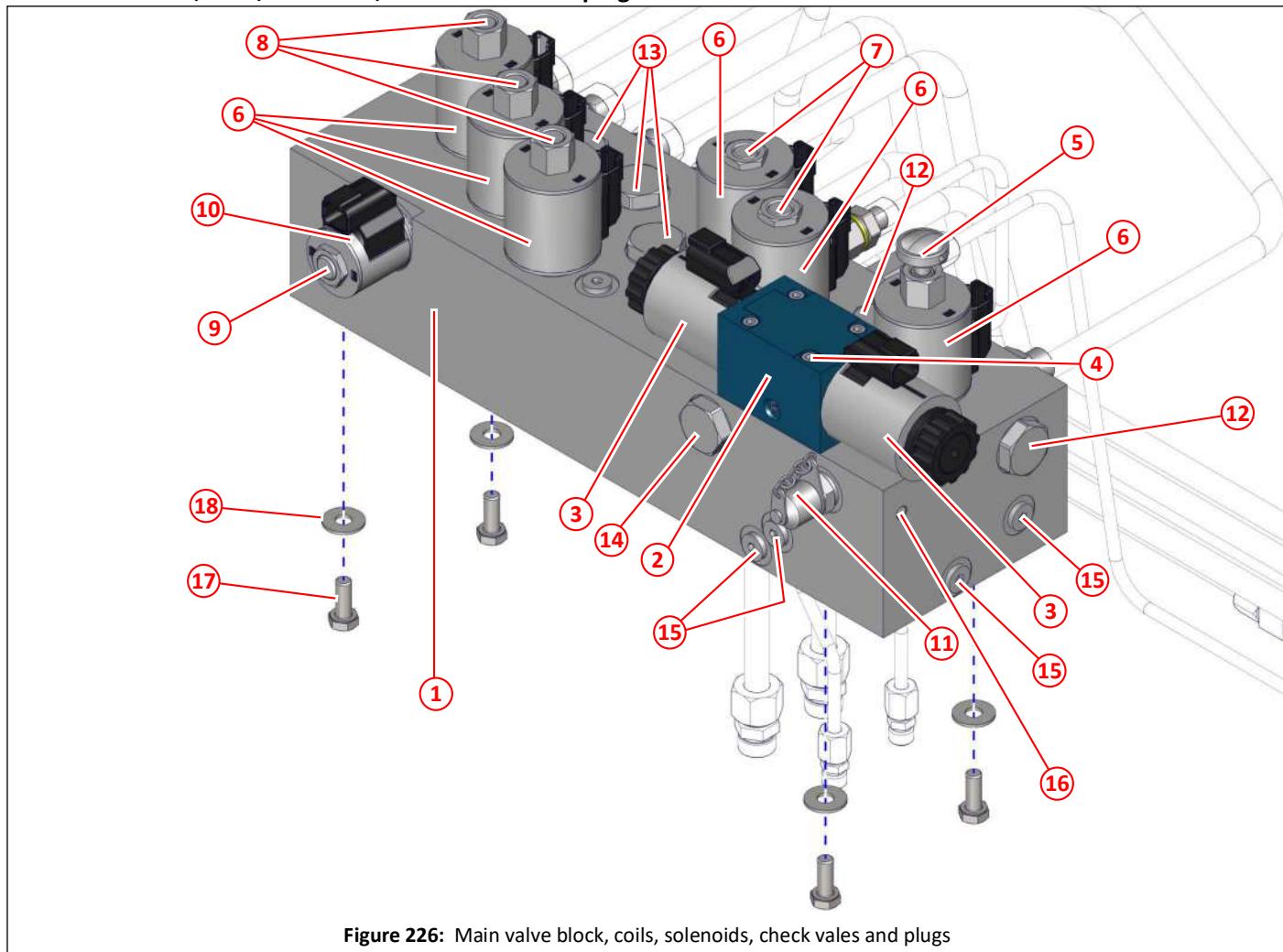


Figure 226: Main valve block, coils, solenoids, check vales and plugs

Item	Part No	Qty	Description	
①	044045	1	Main valve block, bare, 12v and 24v	262,264,265
②	044046	1	Directional control valve, SVD03-47C-N-00	
③	044047	2	Coil, 4302694 E SERIES 24v	
③	044497	2	Coil, 4302692 E SERIES, 12v	
④	044050	4	Cap head bolt	
⑤	044054	1	Manual override solenoid valve, SV10-21K-0-N-00	
⑥	044048	6	Coil, 4304124 E SERIES, 24v	
⑥	041224	6	Coil 20.5 watts, 12v	
⑦	044052	2	Solenoid valve, SV10-20-0-N-00	
⑧	044053	3	Solenoid valve, SV10-21-0-N-00	
⑨	044051	1	Solenoid valve, SP08-20-0-N-00	
⑩	044049	1	Coil, 4304024 E SERIES, 24v	
⑩	041225	1	Coil, 17.2 watts, with diode, 12v	
⑪	013036	1	Test point adapter	
⑫	044056	2	Cavity plug, CP10-20-N	
⑬	044055	3	Cartridge check valve, CV10-20-0-N-100	
⑭	045534	1	Cartridge check valve, CV10-2-0-N-05	
⑮	044058	18	SAE plug	
⑯	044059	1	Expander plug	
⑰	011010	4	Set screw M8 x 20	
⑱	011092	4	Plain washer M8	

Main valve block, fittings

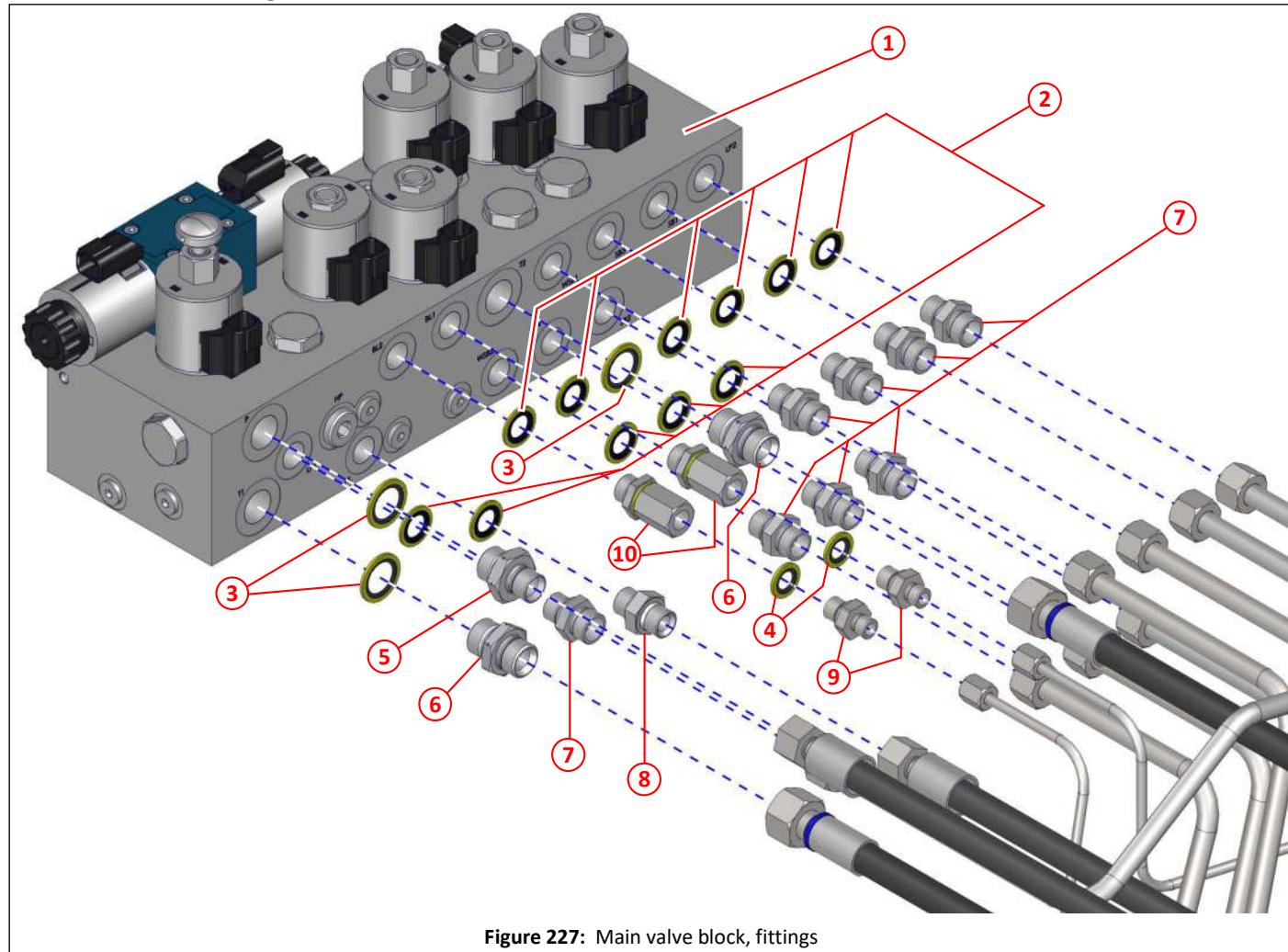


Figure 227: Main valve block, fittings

Item	Part No	Qty	Description	
①	042615	1	Main valve block, populated, 24v	262,263,265
①	044484	1	Main valve block, populated, 12v	262,263,265
②	011217	11	Dowty seal M16	
③	011267	2	Dowty seal M20	
④	011152	3	Dowty seal $\frac{1}{4}$ " BSP	
⑤	011266	1	Adapter M20 x 1.5 to $\frac{3}{8}$ " BSP	
⑥	037741	2	Adapter, M/M, $\frac{1}{2}$ " BSP to M20 x 1.5	
⑦	002175	8	Adapter, M16 x 1.5, 12 long	
⑧	011186	1	Adapter, M16 x 1.5 to $\frac{3}{8}$ " BSP	
⑨	020902	2	Adapter, $\frac{1}{4}$ " BSP, 6 long	
⑩	002176	2	Adapter, M/F, M16 x 1.5 to $\frac{1}{4}$ " BSP, 2 parts (adapter M/M and adapter F/F)	
NI	011152	2	Dowty seal $\frac{1}{4}$ " BSP, for use with item ⑩	

Main valve block, pipes and hoses

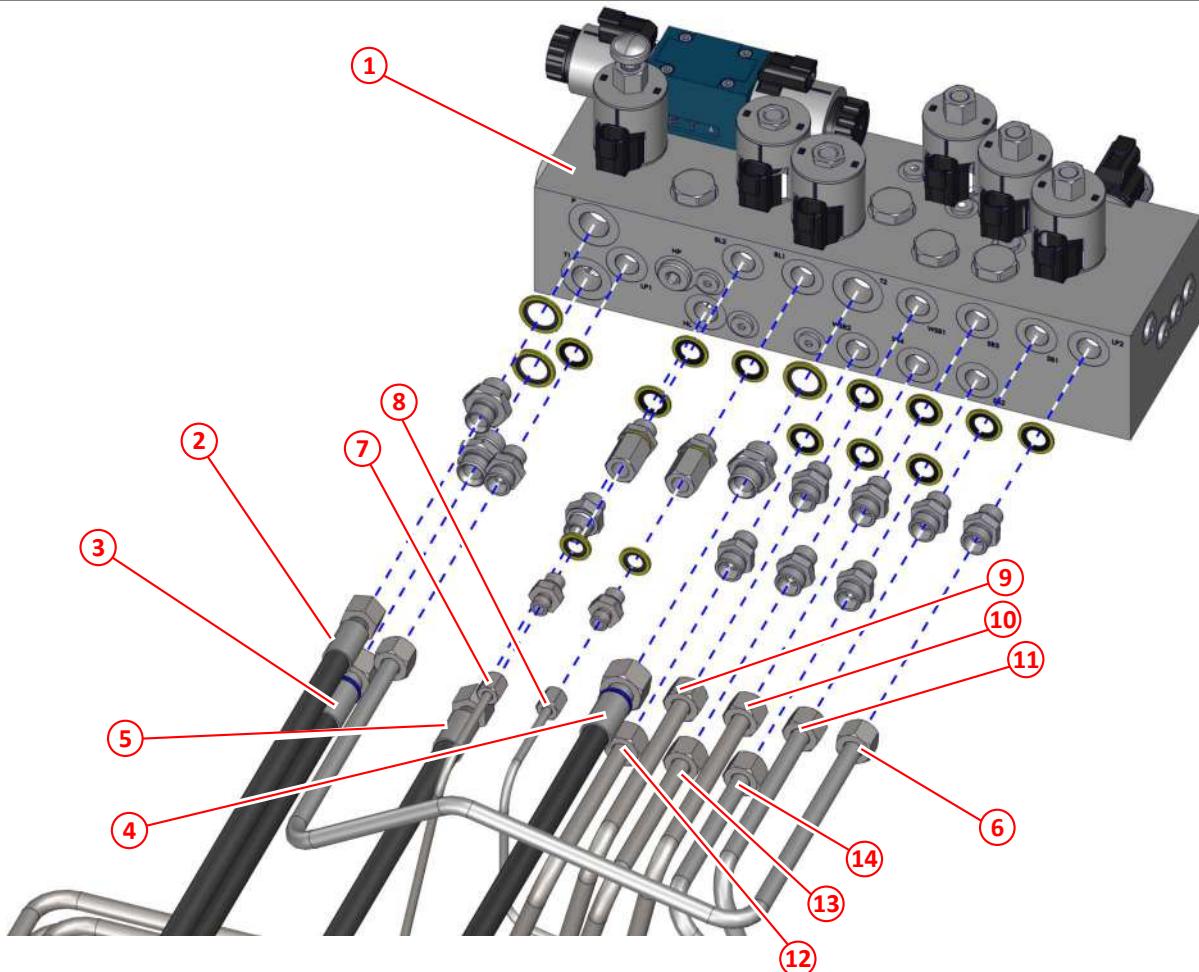


Figure 228: Main valve block, pipes and hoses

Item	Part No	Qty	Description	
①	042615	1	Main valve block, populated, 24v	262,263,264
①	044484	1	Main valve block, populated, 12v	262,263,265
②	011306	1	Hose, $\frac{3}{8}$ " x 1400, $\frac{3}{8}$ " BSP straight ends, from oil filter to Port P	
③	001271	1	Hose, $\frac{1}{2}$ " BSP x 960, straight and 90° ends, from oil cooler to Port T1	
④	001328	1	Hose, $\frac{1}{2}$ " BSP x 810, straight and 90° ends, from oil cooler to Port T2	
⑤	011311	1	Hose, $\frac{3}{8}$ " x 1100, $\frac{3}{8}$ " BSP straight ends, from hand pump/hopper control valve to Port HL	
⑥	040127	1	Link pipe, steel, Ports LP1 to LP2	
⑦	043409	1	Pipe, steel, left hand brush lift, to Port BL2	
⑧	043414	1	Pipe, steel, right hand brush lift, to Port BL1	
⑨	043416	1	Pipe, steel, central brush (wide sweep) feed, to Port WSB1	
⑩	043405	1	Pipe, steel, left hand brush feed, to Port SB3	
⑪	043412	1	Pipe, steel, right hand brush feed, to Port SB1	
⑫	043418	1	Pipe, steel, central brush (wide sweep) return, to Port WSB2	
⑬	043407	1	Pipe, steel, left hand brush return, to Port SB4	
⑭	043413	1	Pipe, steel, right hand brush return, to Port SB2	

Options valve block, coils and solenoids

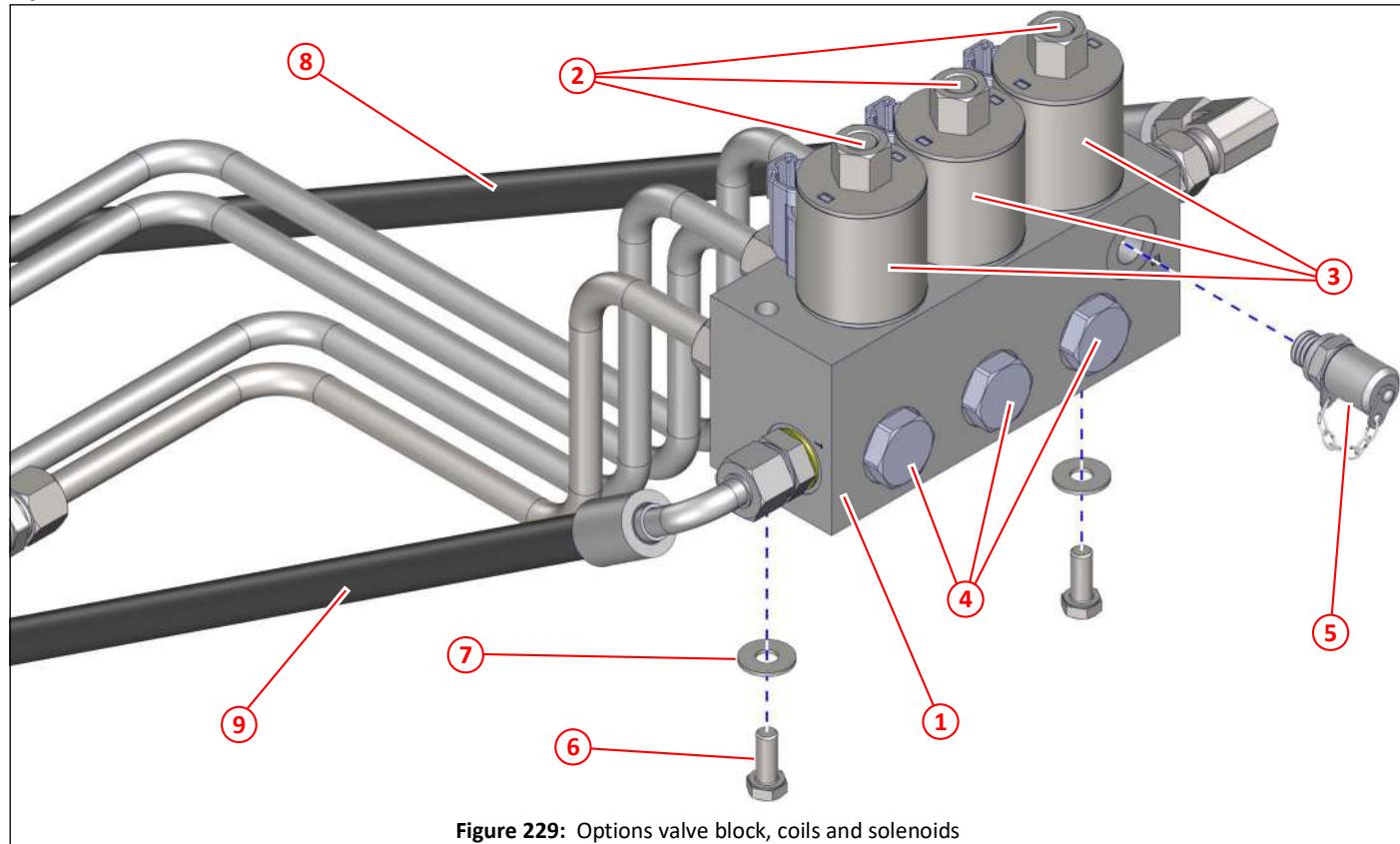
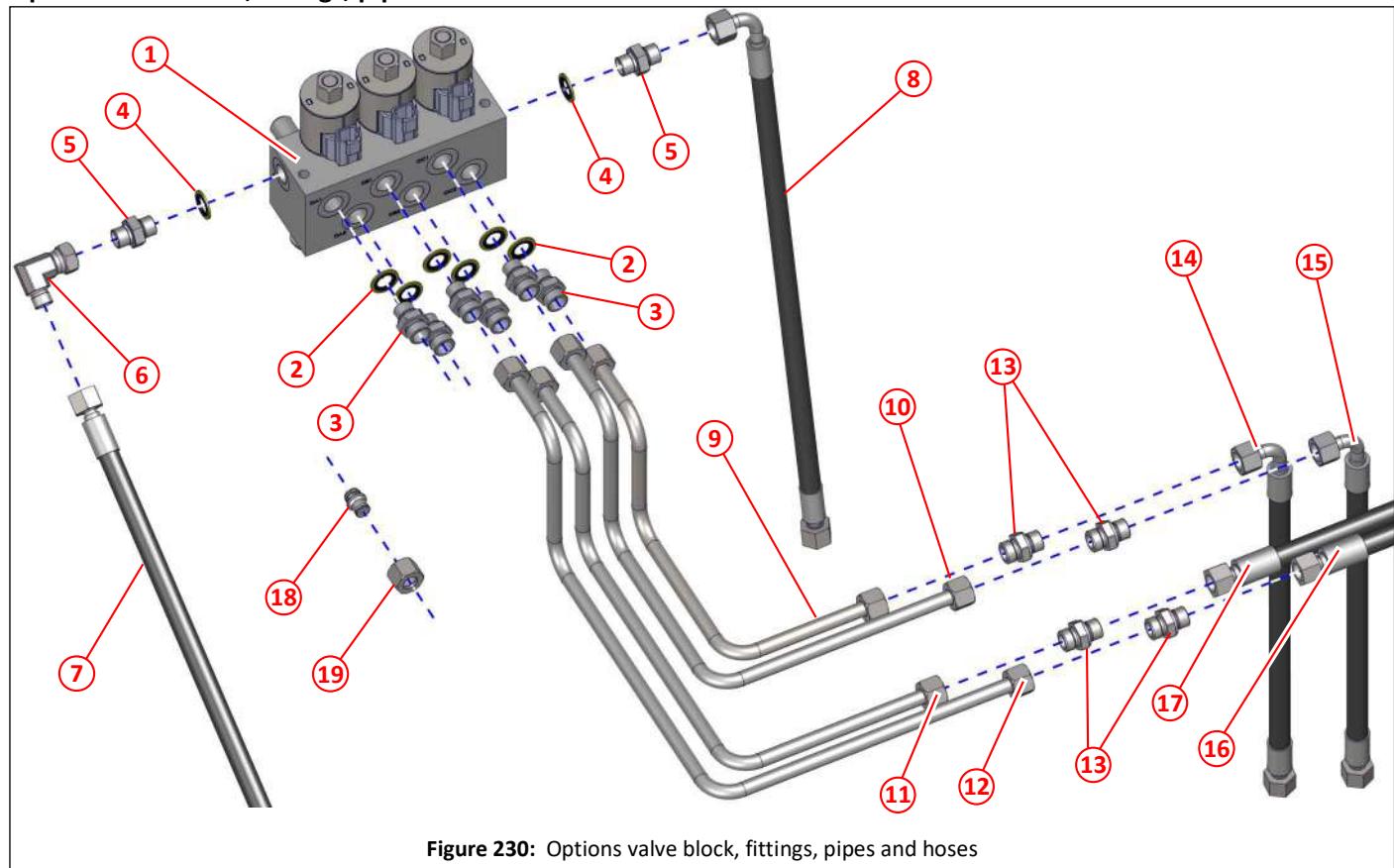


Figure 229: Options valve block, coils and solenoids

Item	Part No	Qty	Description	
①	042616	1	Options valve block, populated, 24v	262,267
①	044486	1	Options valve block, populated, 12v	262,267
②	044053	3	Solenoid valve, SV10-21-0-N-00	
③	044048	3	Coil, 4304124 E SERIES, 24v	
③	041224	3	Coil, 20.5 watts, 12v	
④	044055	3	Cartridge check valve, CV10-20-0-N-100	
⑤	013036	1	Test point adapter, $\frac{1}{4}$ " BSP	
⑥	011010	4	Set screw M8 x 20	
⑦	011092	4	Plain washer M8	
⑧	001167	1	Hose, $\frac{3}{8}$ " x 1200, $\frac{3}{8}$ " BSP straight ends, from HP oil filter to Port P	
⑨	001226	1	Hose, $\frac{3}{8}$ " x 530, $\frac{3}{8}$ " BSP straight and 90° ends, from Port T to oil tank	

Options valve block, fittings, pipes and hoses

Figure 230: Options valve block, fittings, pipes and hoses

Item	Part No	Qty	Description	
①	042616	1	Options valve block, populated, 24v	262,266
①	044486	1	Options valve block, populated, 12v	262,266
②	011217	6	Dowty seal M16	
③	002175	6	Adapter, M16 x 1.5, 12 long	
④	011217	1	Dowty seal M16	
⑤	011186	2	Adapter, M16 x 1.5 to $\frac{3}{8}$ " BSP	
⑥	011172	1	Elbow, swivel, M/F, $\frac{3}{8}$ " BSP	
⑦	001167	1	Hose, $\frac{3}{8}$ " x 1200, $\frac{3}{8}$ " BSP straight ends, from HP oil filter to Port P	
⑧	001226	1	Hose, $\frac{3}{8}$ " x 530, $\frac{3}{8}$ " BSP straight and 90° ends, from Port T to oil tank	
⑨	043400	1	Pipe, steel, from low pressure water pump to Port OC2	
⑩	043399	1	Pipe, steel, from Port OC1 to low pressure water pump	
⑪	043402	1	Pipe, steel, from high pressure water pump to Port OB2	
⑫	043401	1	Pipe, steel, from Port OB1 to high pressure water pump	
⑬	020903	4	Adapter $\varnothing 12 \times \frac{3}{8}$ " BSP	
⑭	001220	1	Hose, $\frac{3}{8}$ " x 410, $\frac{3}{8}$ " BSP straight and 90° ends, from low pressure water pump	
⑮	001220	1	Hose, $\frac{3}{8}$ " x 410, $\frac{3}{8}$ " BSP straight and 90° ends, to low pressure water pump	
⑯	001149	1	Hose, $\frac{3}{8}$ " x 3550, $\frac{3}{8}$ " BSP straight and 90° ends, from high pressure water pump	
⑰	001149	1	Hose, $\frac{3}{8}$ " x 3550, $\frac{3}{8}$ " BSP straight and 90° ends, to high pressure water pump	
⑱	002236 *	As req	Blanking plug 12mm	
⑲	002130 *	As req	Compression nut	

*. These items are used to blank any ports not being used by attaching to the associated adapter.

Hopper control valve, coils and solenoids

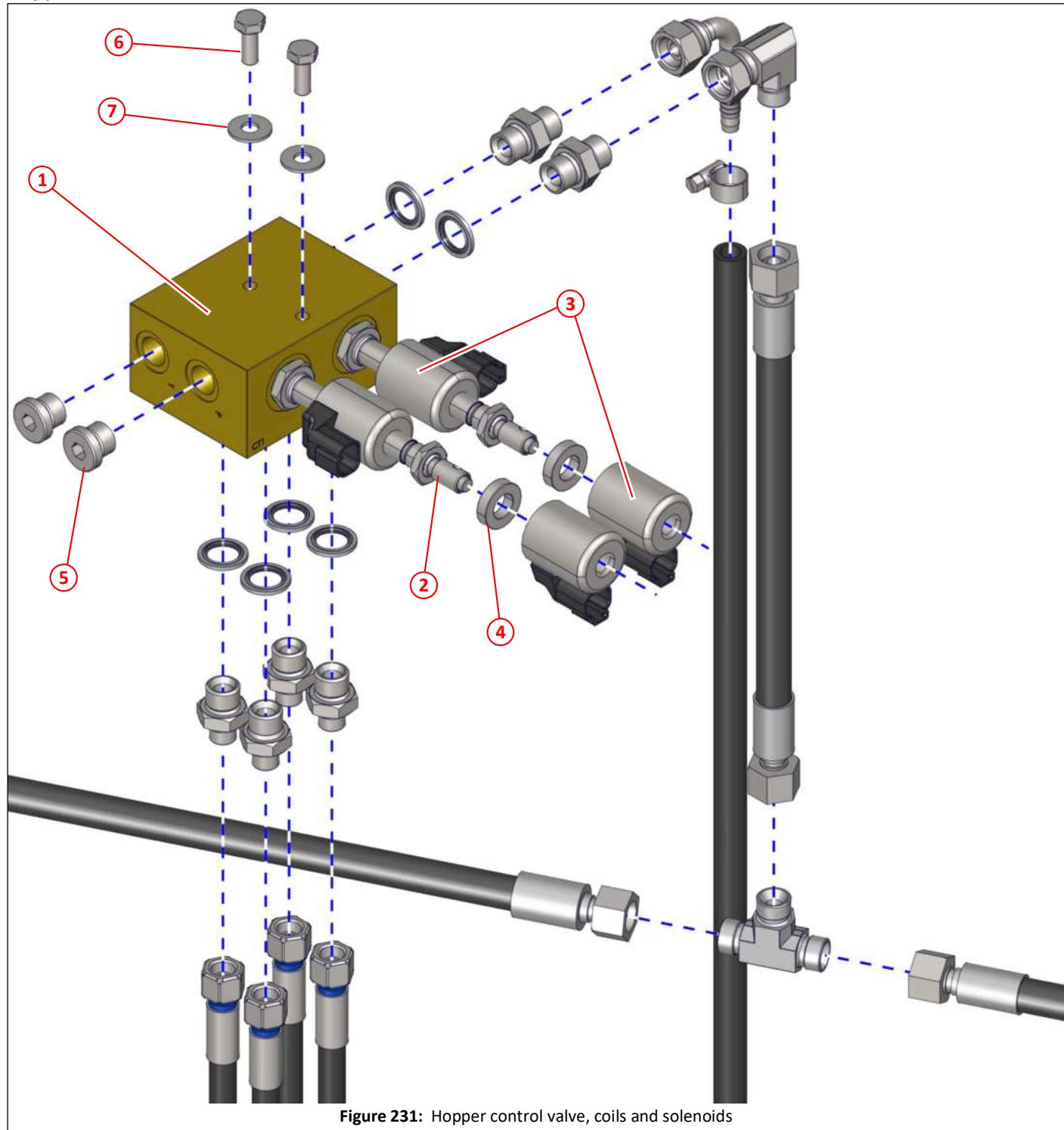
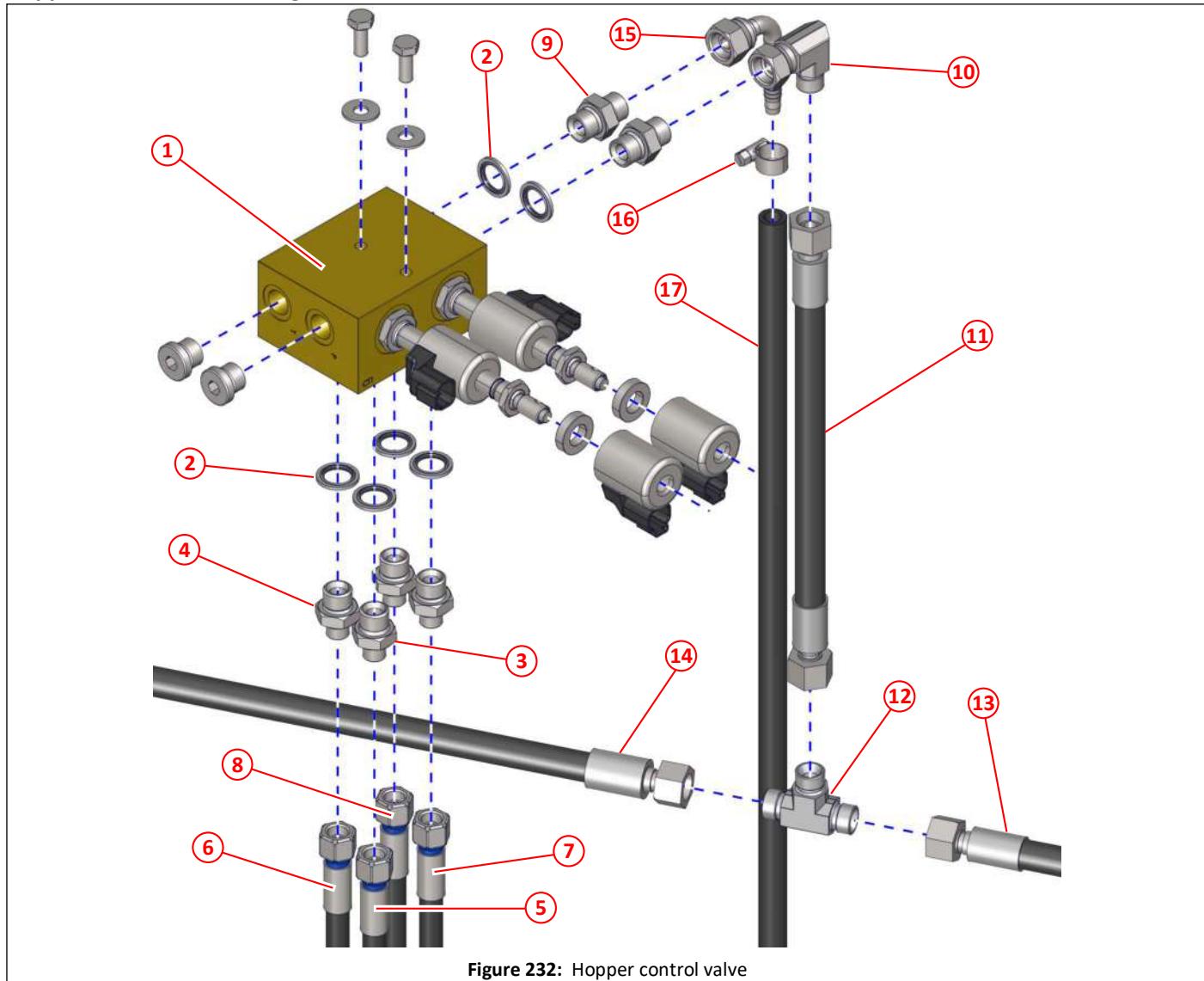


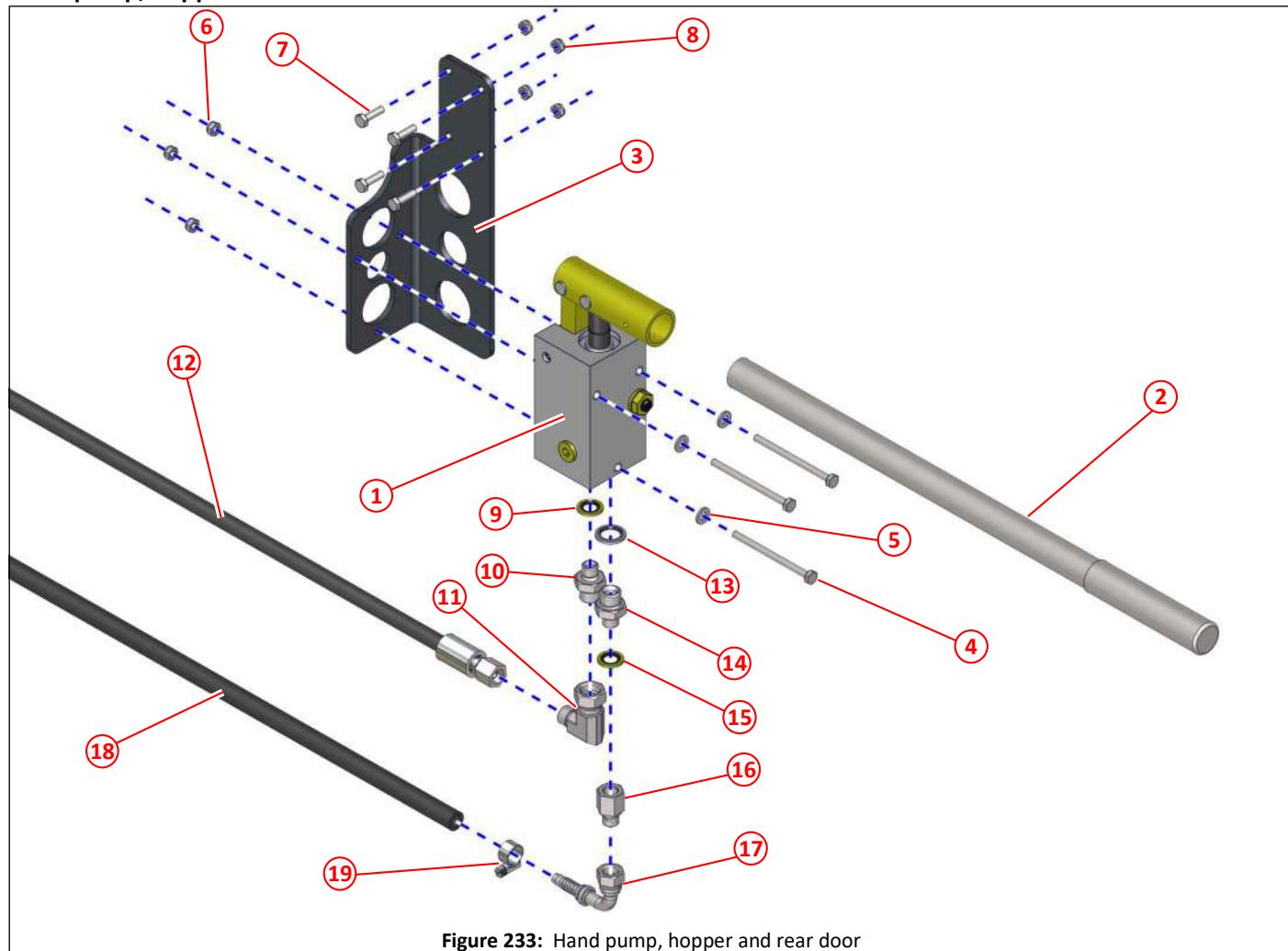
Figure 231: Hopper control valve, coils and solenoids

Item	Part No	Qty	Description
①	039703	1	Hopper control valve, includes items ②, ③ and ④, 24v
①	044491	1	Hopper control valve, includes items ②, ③ and ④, 12v
②	039746	2	Solenoid valve
③	039747	4	Coil with diode, 24V
③	041225	4	Coil with diode, 12v
④	039748	2	Coil spacer
⑤	035242	2	Port plug $\frac{3}{8}$ " BSP
⑥	011010	2	Set screw M8 x 20
⑦	011092	2	Plain washer M8

Hopper control valve, fittings and hoses

Figure 232: Hopper control valve

Item	Part No	Qty	Description	
①	039703	1	Hopper control valve, 24v	268
①	044491	1	Hopper control valve, 12v	268
②	011153	6	Dowty seal 3/8" BSP	
③	040217	1	Adapter, M/M, 1/4" BSP x 3/8" BSP 3/64" restrictor orange	
④	011199	3	Adapter, M/M, 3/8" BSP x 1/4" BSP	
⑤	001036	1	Hose, 1/4" x 4100, 1/4" BSP straight ends, Port B to hopper door ram open	
⑥	010036	1	Hose, 1/4" x 4100, 1/4" BSP straight ends, Port A to hopper door ram close	
⑦	001264	1	Hose, 1/4" x 1000, 1/4" BSP straight ends, Port D to hopper lift ram raise	
⑧	011329	1	Hose, 1/4" x 1200, 1/4" BSP straight ends, Port C to hopper lift ram lower	
⑨	011159	2	Adapter, M/M, 3/8" BSP	
⑩	011172	1	Elbow, swivel, M/F, 3/8" BSP	
⑪	011310	1	Hose 3/8" x 300, 3/8" BSP straight ends, Port P to hand pump/main valve block Port HL	
⑫	011198	1	Tee, M/M/M, 3/8" BSP	
⑬	011311	1	Hose 3/8" x 1100, 3/8" BSP straight ends, from main valve block Port HL	
⑭	001017	1	Hose 3/8" x 1000, 3/8" BSP straight ends, to hand pump	
⑮	002048	1	Elbow, swept, 3/8" BSP x 3/8" BSP hose tail, Port T to return to tank	
⑯	010516	1	Hose clamp, worm drive, No. M00 (ø11mm-ø16mm)	
⑰	010958	As req	Hose 3/8", return to tank	

Hand pump, hopper and rear door



Item	Part No	Qty	Description
①	023006	1	Hand pump, hydraulic, hopper and rear door
②	038657	1	Handle, hand pump
③	038257	1	Bracket, hand pump
④	000221	3	Bolt M6 x 80
⑤	011090		Plain washer M6
⑥	011071	3	Nyloc nut M6
⑦	011067	4	Set screw M6 x 20
⑧	011071	4	Nyloc nut M6
⑨	011152	1	Dowty seal $\frac{1}{4}$ " BSP
⑩	011199	1	Adapter, M/M, $\frac{3}{8}$ " BSP x $\frac{1}{4}$ " BSP
⑪	011172	1	Elbow, swivel, M/F, $\frac{3}{8}$ " BSP
⑫	001017	1	Hose $\frac{3}{8}$ " x 1000, $\frac{3}{8}$ " BSP straight ends, to hand pump Port P from hopper control valve
⑬	011153	1	Dowty seal $\frac{3}{8}$ " BSP
⑭	011199	1	Adapter, M/M, $\frac{3}{8}$ " BSP x $\frac{1}{4}$ " BSP
⑮	011152	2	Dowty seal $\frac{1}{4}$ " BSP
⑯	002014	1	Adapter, M/F, fixed, $\frac{1}{4}$ " BSP
⑰	002237	1	Adapter, $\frac{1}{4}$ " BSP x $\frac{3}{8}$ " hose tail, 90°
⑱	010958	As req	Hose $\frac{3}{8}$ ", from hand pump Port T to hydraulic tank return
⑲	010516	1	Hose clamp, worm drive, No. M00 (\varnothing 11mm- \varnothing 16mm)

Ram, dual stage, hopper lift

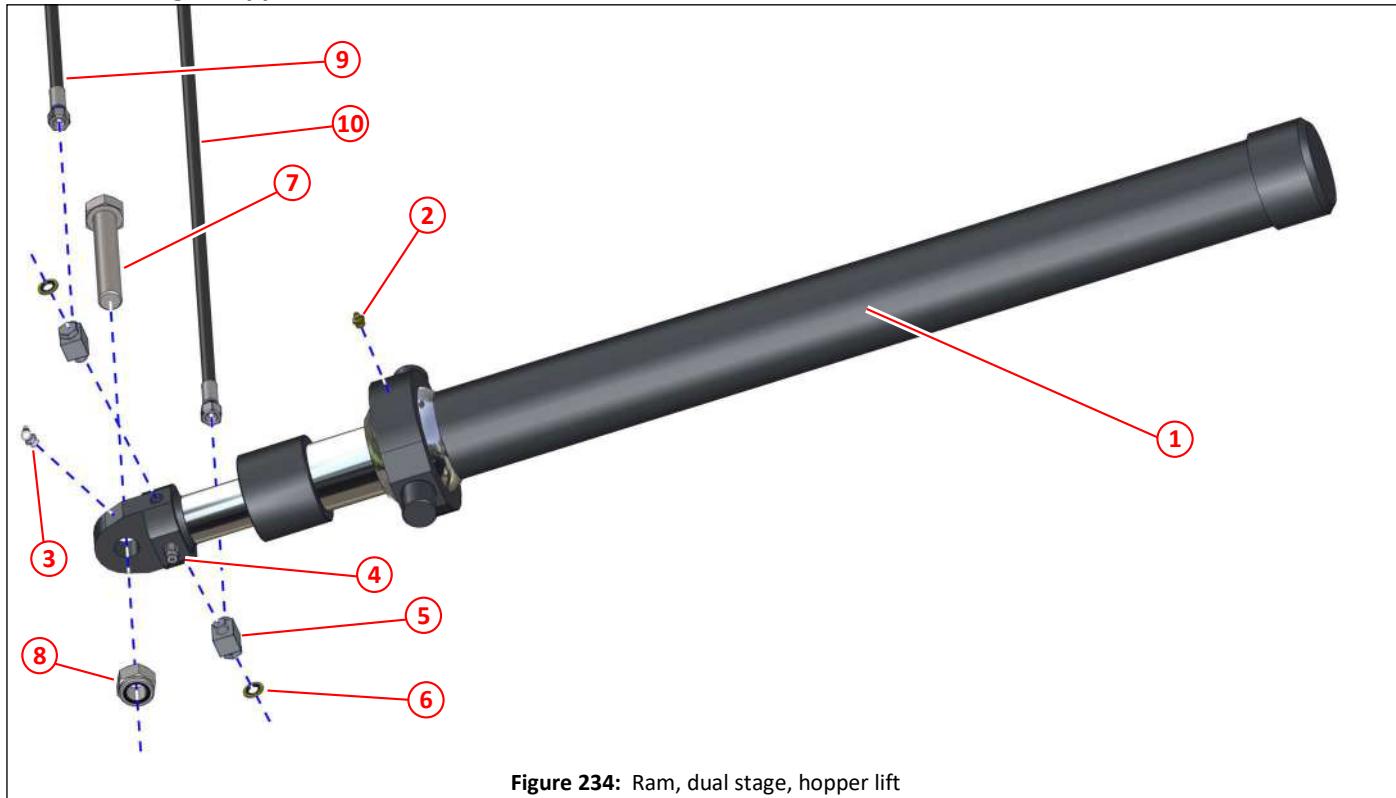


Figure 234: Ram, dual stage, hopper lift

Item	Part No	Qty	Description	
①	024249	1	Ram, dual acting, hopper lift	155
②	010903	1	Grease nipple $\frac{1}{8}$ " BSP straight	
③	010902	1	Grease nipple $\frac{1}{8}$ " BSP x 90°	
④	028178	2	Check valve 1CE 30F35S5	
⑤	002017	2	Banjo adapter $\frac{1}{4}$ " BSP	
⑥	011152	2	Dowty seal $\frac{1}{4}$ " BSP	
⑦	000241	1	Bolt M24 x 130	
⑧	000008	1	Nyloc nut M24	
⑨	001264	1	Hose, $\frac{1}{4}$ " x 1000, $\frac{1}{4}$ " BSP straight ends, from hopper control valve Port D to ram raise	
⑩	011329	1	Hose, $\frac{1}{4}$ " x 1200, $\frac{1}{4}$ " BSP straight ends, from hopper control valve Port C to ram lower	
NI	027885	1	Seal kit, ram	

Ram, rear door open/close/locking

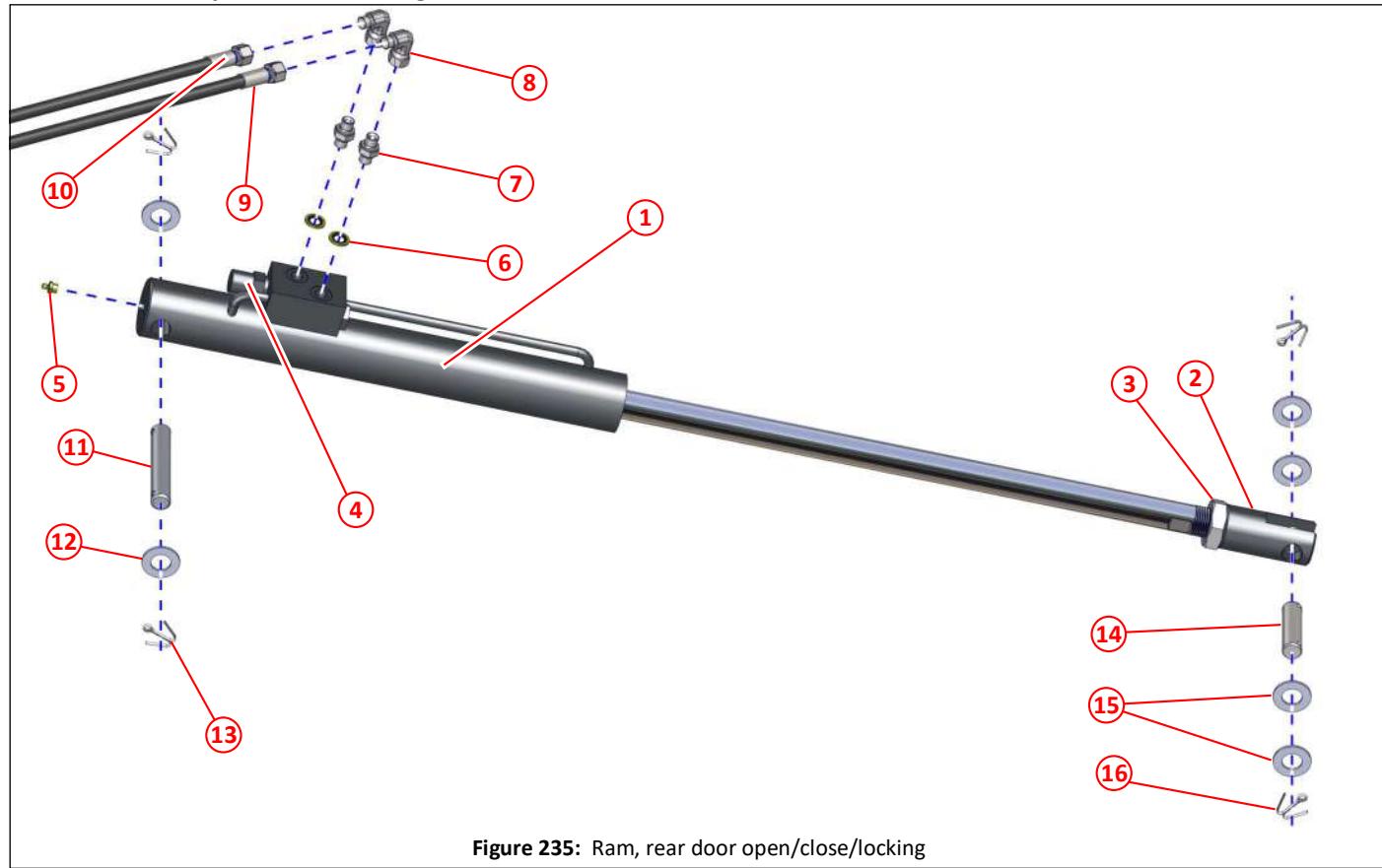


Figure 235: Ram, rear door open/close/locking

Item	Part No	Qty	Description	
①	034816	1	Door ram, open/close/locking, includes items ②, ③ and ④	189
②	042284	1	Clevis, door ram	
③	042285	1	Nut, clevis, door ram	
④	028178	1	Check valve 1CE 30F35S5	
⑤	010903	1	Grease nipple $\frac{1}{8}$ " BSP straight	
⑥	011152	2	Dowty seal $\frac{1}{4}$ " BSP	
⑦	011158	2	Adapter, M/M, $\frac{1}{4}$ " BSP x $\frac{1}{4}$ " BSP	
⑧	011171	2	Elbow, swivel, M/F, $\frac{1}{4}$ " BSP	
⑨	001321	1	Hose, $\frac{1}{4}$ " BSP x 1850, straight ends,	
⑩	011328	1	Hose, $\frac{1}{4}$ " BSP x 1780, straight ends,	
⑪	022558	1	Pin, rear door ram	
⑫	011102	2	Plain washer M20	
⑬	011122	2	Split pin $\frac{3}{16}$ " x $1\frac{1}{2}$ "	
⑭	014038	1	Pin ø20 x 70	
⑮	011102	4	Plain washer M20	
⑯	011122	2	Split pin $\frac{3}{16}$ " x $1\frac{1}{2}$ "	

Ram, side brush lift

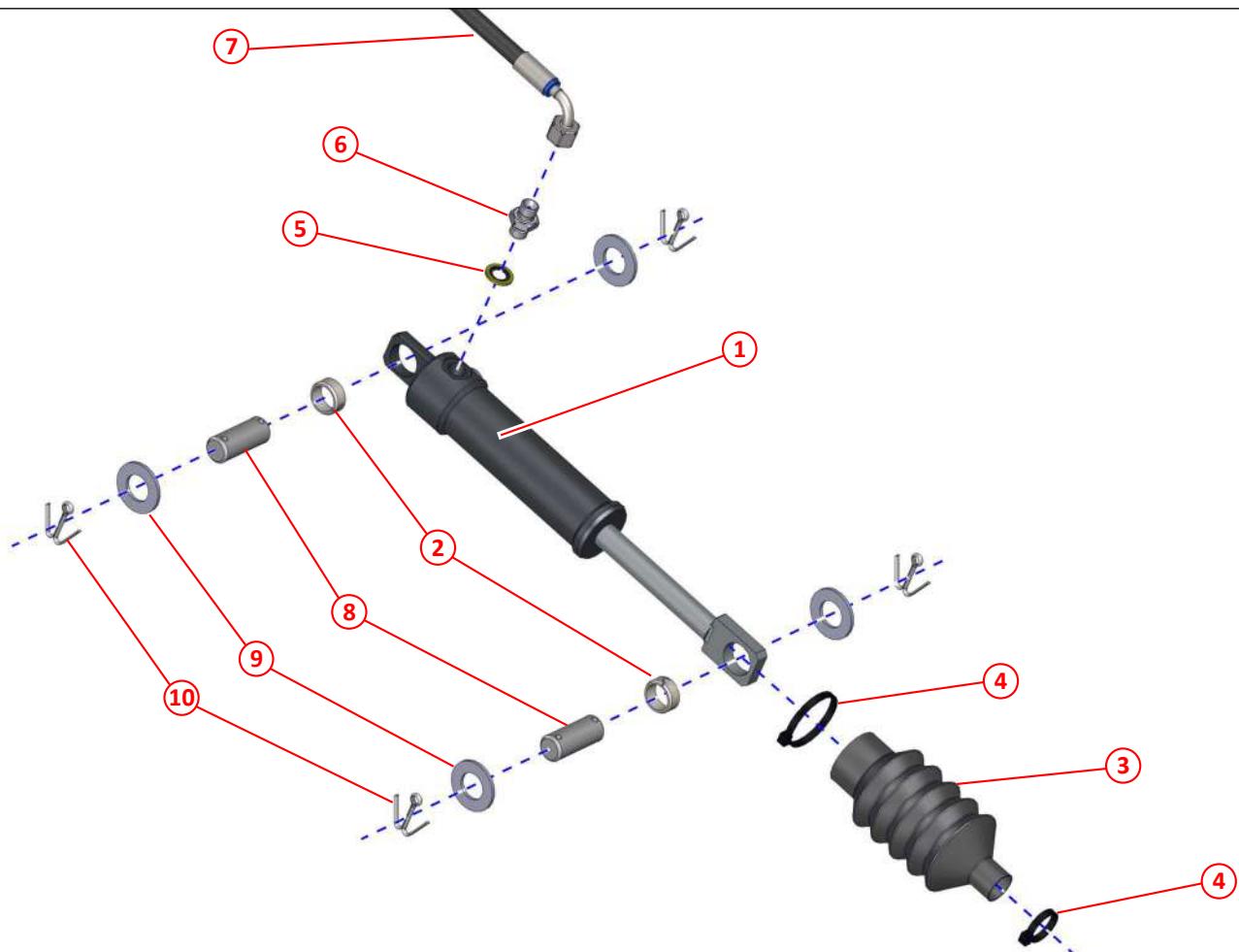


Figure 236: Ram, side brush lift

Item	Part No	Qty	Description	
①	010009	1	Ram, No. 12 240/340, side brush lift	33,42
②	024682	2	Bush ø20 x ø25 x 10	
③	014473	1	Bellows, ram	
④	005018	2	Cable tie	
⑤	011152	1	Dowty seal $\frac{1}{4}$ " BSP	
⑥	012539	1	Adapter, restrictor No. 5 $\frac{1}{32}$ " white, M/M, $\frac{1}{4}$ " BSP x $\frac{1}{4}$ " BSP	
⑦	001101	1	Hose, $\frac{1}{4}$ " BSP x 1125, straight and 90° ends	
⑧	010067	2	Pin ø20 x 50	
⑨	011102	4	Plain washer M20	
⑩	011122	4	Split pin $\frac{3}{16}$ " x $1\frac{1}{2}$ "	

024539	1	Ram, side brush lift assembly, includes items ①, ②, ③, ④, ⑤ and ⑥
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Ram, suction nozzle tilt

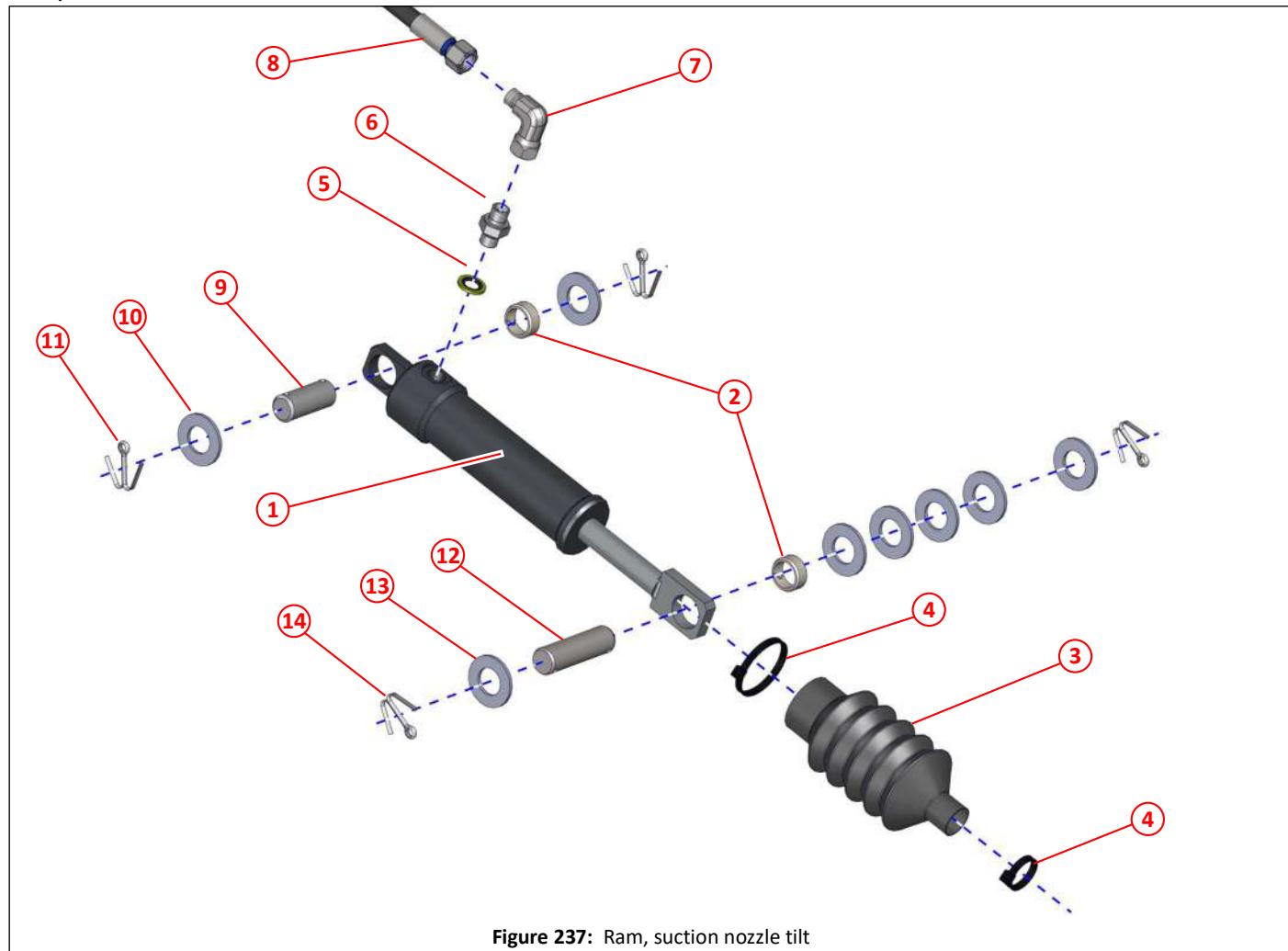


Figure 237: Ram, suction nozzle tilt

Item	Part No	Qty	Description	
①	041954	1	Ram, No. 12 240/340, suction nozzle tilt	87,104
②	024682	2	Bush ø20 x ø25 x 10	
③	014473	1	Bellows, ram	
④	005018	2	Cable tie	
⑤	011152	1	Dowty seal $\frac{1}{4}$ " BSP	
⑥	027188	1	Adapter, restrictor 0.6, M/M, $\frac{1}{4}$ " BSP	
⑦	011171	1	Elbow, swivel, M/F, $\frac{1}{4}$ " BSP	
⑧	001027	1	Hose, $\frac{1}{4}$ " BSP x 1270, straight ends	
⑨	010067	1	Pin ø20 x 50	
⑩	011102	2	Plain washer M20	
⑪	011122	2	Split pin $\frac{3}{16}$ " x $1\frac{1}{2}$ "	
⑫	014038	1	Pin ø20 x 70	
⑬	011102	6	Plain washer M20	
⑭	011122	2	Split pin $\frac{3}{16}$ " x $1\frac{1}{2}$ "	
<hr/>				
	041955	1	Ram, suction nozzle assembly, includes items ①, ②, ③, ④, ⑤ and ⑥	

Motor, side brush

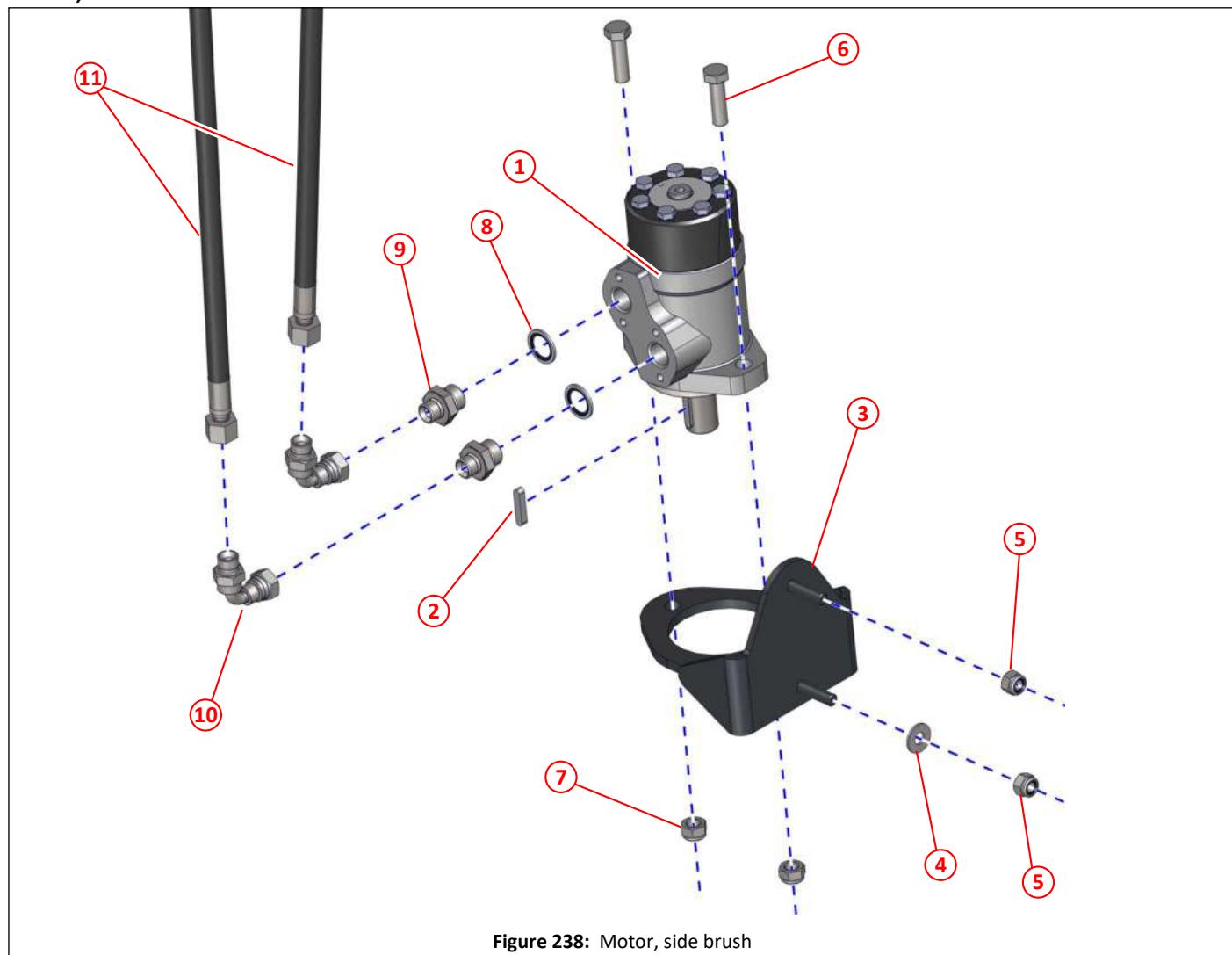
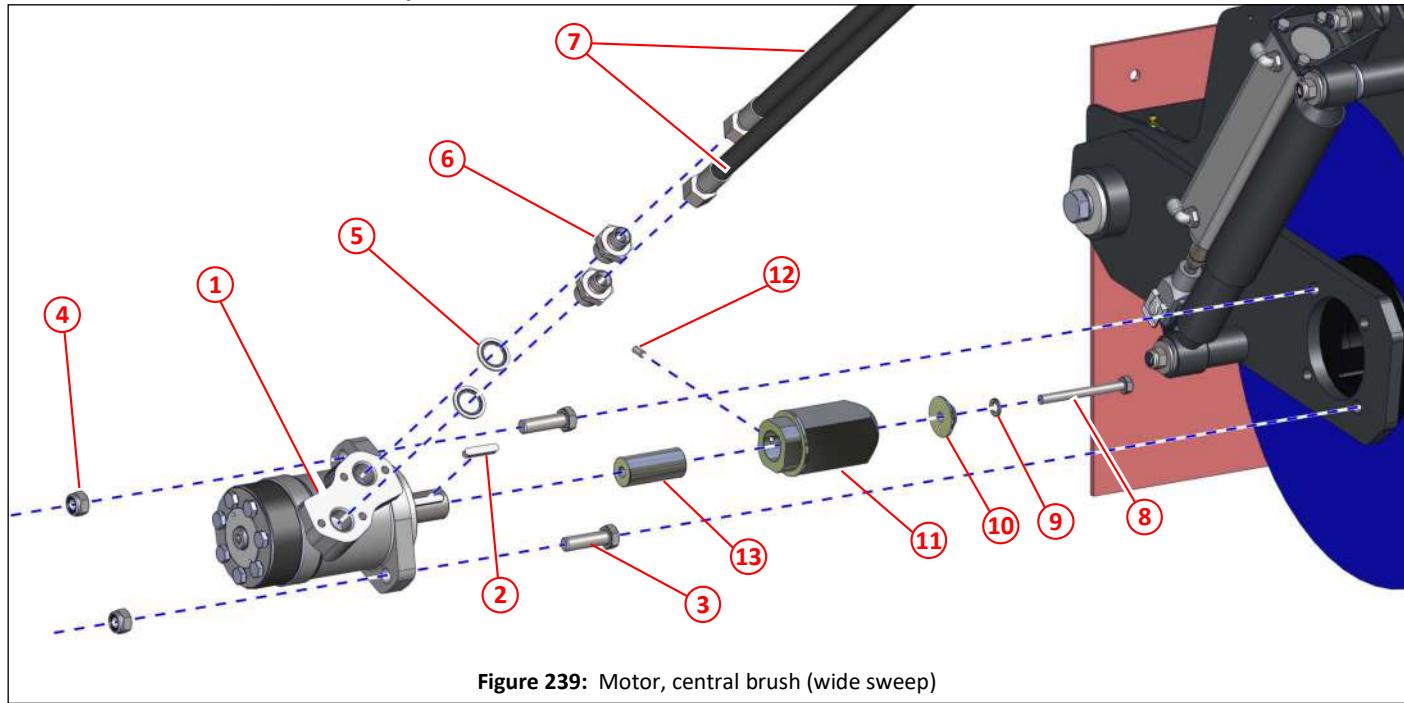


Figure 238: Motor, side brush

Item	Part No	Qty	Description	
①	010749	1	Motor, 3597 (OMP 200), side brush	44
②	011515	1	Key for motor	
③	010007	1	Bracket, motor	
④	011094	1	Plain washer M10	
⑤	011075	2	Nyloc nut M10	
⑥	011069	2	Bolt M12 x 40	
⑦	011077	2	Nyloc nut M12	
⑧	011154	2	Dowty seal 1/2" BSP	
⑨	011167	2	Adapter, M/M, 1/2" BSP x 3/8" BSP	
⑩	011221	2	Elbow, swept, M/F, 3/8" BSP	
⑪	011307	2	Hose, 3/8" BSP x 1300, straight ends	

Motor, central brush (wide sweep)



Item	Part No	Qty	Description	
①	010566	1	Motor 3596 (OMP 100), central brush (wide sweep)	53, 62
②	011515	1	Key for motor	
③	011069	2	Bolt M12 x 40	
④	011077	2	Nyloc nut M12	
⑤	011154	2	Dowty seal $\frac{1}{2}$ " BSP	
⑥	011167	2	Adapter, M/M, $\frac{1}{2}$ " x $\frac{3}{8}$ " BSP	
⑦	001167	2	Hose, $\frac{3}{8}$ " BSP x 1200, straight ends	
⑧	011415	1	Bolt M8 x 80	
⑨	011093	1	Spring washer M8	
⑩	024538	1	Washer cone	
⑪	024535	1	Drive shaft, central brush (wide sweep)	
⑫	011112	1	Socket set screw M6 x 12	
⑬	038106	1	Spacer $\varnothing 8.5 \times \varnothing 25 \times 55$	

Motor, suction fan

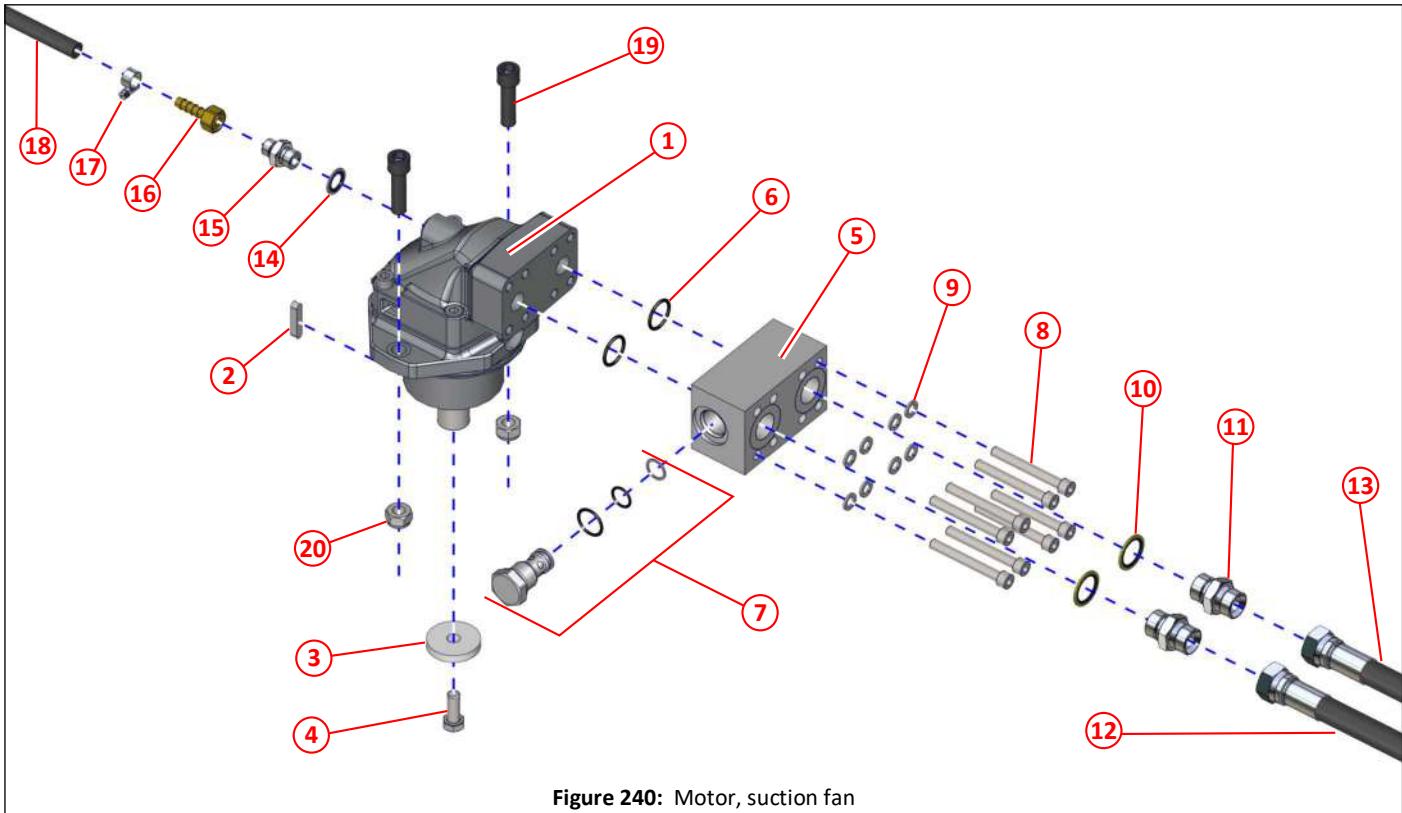


Figure 240: Motor, suction fan

Item	Part No	Qty	Description	
①	024641	1	Motor, suction fan	261
②	013292	1	Key for item ①	
③	044926	1	Washer ø12.5 x ø50 x 8, stainless steel	
④	011052	1	Set screw M12 x 30	
⑤	041633*	1	Manifold, anti-cavitation valve	
⑥	041634*	2	'O' ring	
⑦	041635*	1	Check valve, includes seals and washer	
⑧	000048	8	Socket cap head screw M10 x 80	
⑨	011095	8	Spring washer M10	
⑩	011155	2	Dowty seal $\frac{3}{4}$ " BSP	
⑪	011161	2	Adapter $\frac{3}{4}$ " BSP	
⑫	001322	1	Hose $\frac{5}{8}$ " x 1550, $\frac{3}{4}$ " BSP straight ends	
⑬	001333	1	Hose $\frac{5}{8}$ " x 1700, $\frac{3}{4}$ " BSP straight ends	
⑭	011247	1	Dowty seal M18	
⑮	011248	1	Adapter M18 x $\frac{3}{8}$ " BSP	
⑯	010921	1	Adapter $\frac{3}{8}$ " BSP x $\frac{3}{8}$ " hose tail, complete with butt	
⑰	010516	1	Hose clamp, worm drive No. MOO (ø11mm-ø16mm)	
⑱	010958	As req	Hose $\frac{3}{8}$ "	
⑲	000343	2	Socket cap head bolt M14 x 50, black	
⑳	011127	2	Nyloc nut M14	

*	041564	1	Anti-cavitation valve assembly, includes items ⑤, ⑥ and ⑦
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Motor, low pressure water pump

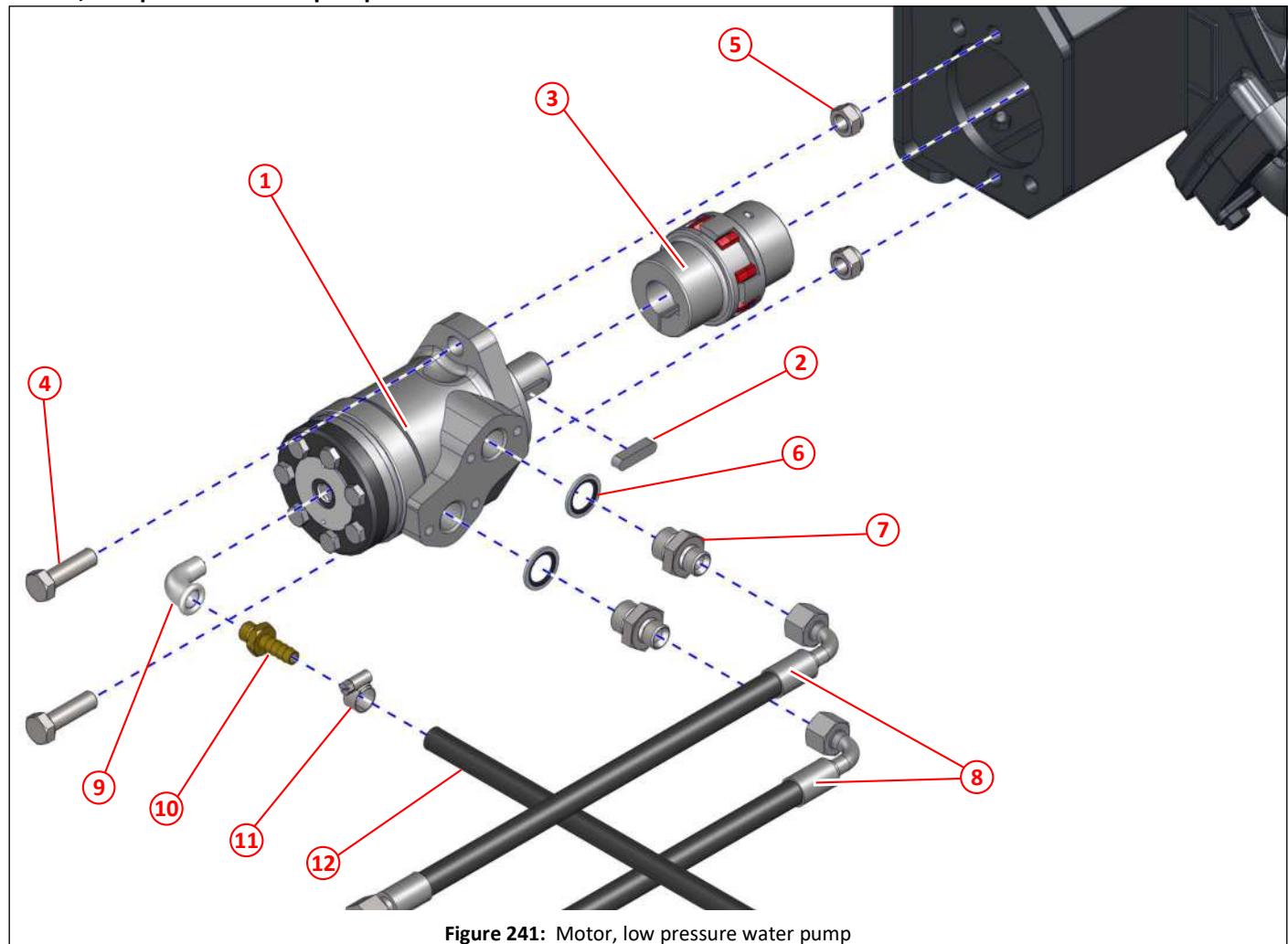
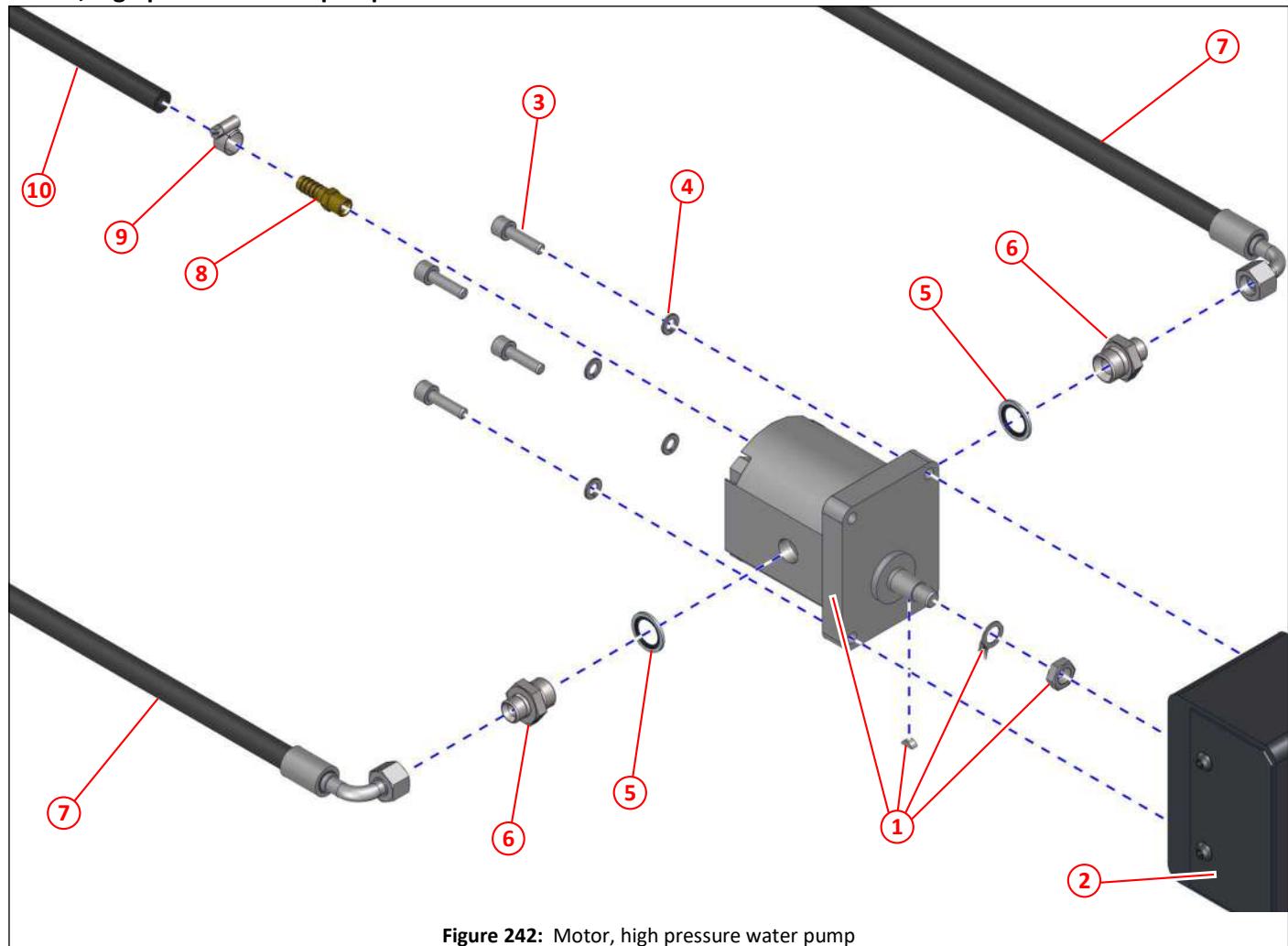


Figure 241: Motor, low pressure water pump

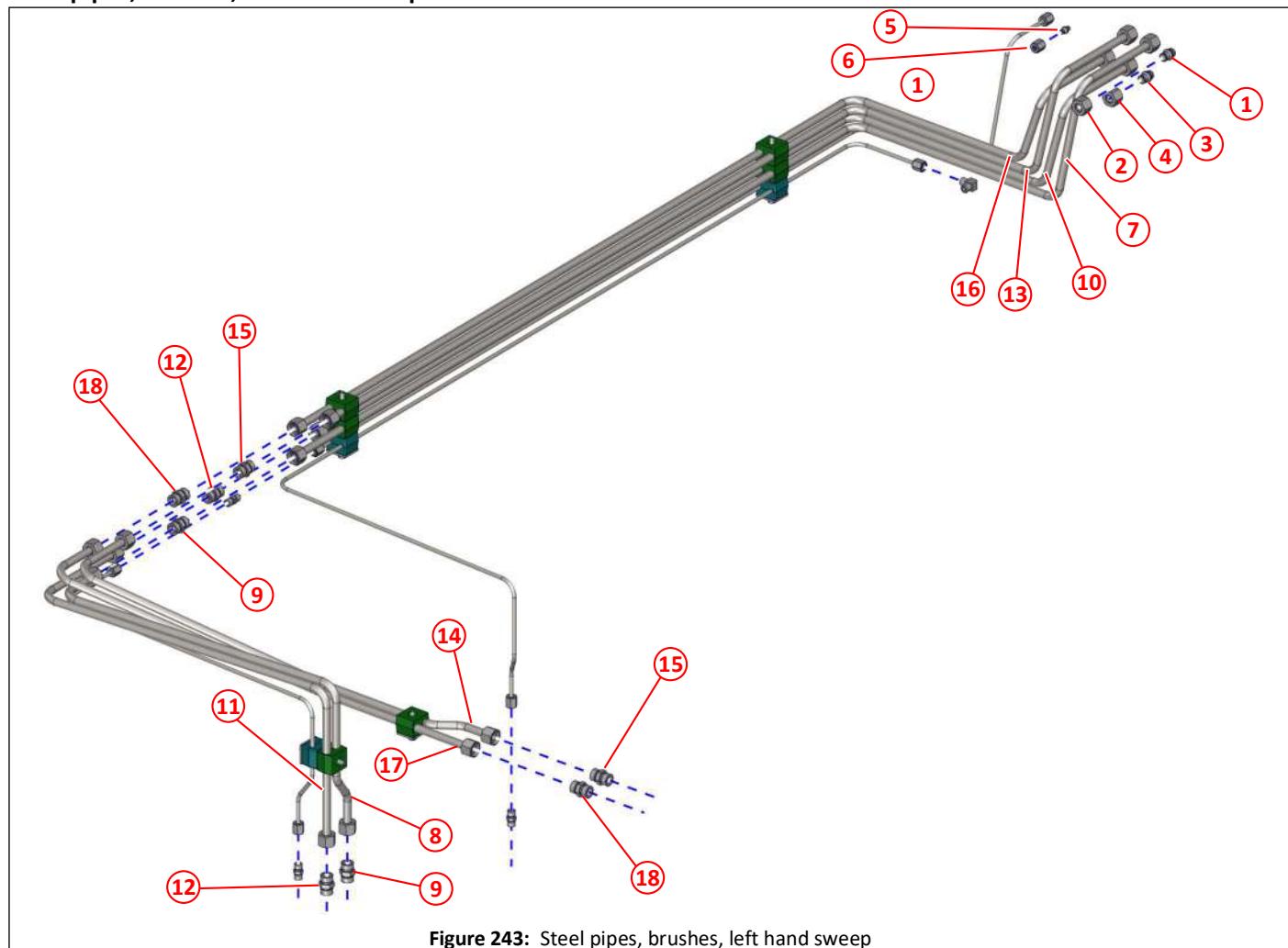
Item	Part No	Qty	Description	
①	043778	1	Motor, 40cc, low pressure water pump	215
②	011515	1	Key for motor	
③	043779	1	Coupling, water pump	
④	011069	2	Bolt M12 x 40	
⑤	011077	2	Nyloc nut M12	
⑥	011154	2	Dowty seal $\frac{1}{2}$ " BSP	
⑦	011167	2	Adapter, M/M, $\frac{1}{2}$ " BSP x $\frac{3}{8}$ " BSP	
⑧	001220	2	Hose, $\frac{3}{8}$ " x 410, $\frac{3}{8}$ " BSP straight and 90° ends, to/from options block Ports OC1 and OC2	
⑨	010910	1	Elbow, M/F, $\frac{1}{4}$ " BSP	
⑩	010922	1	Adapter $\frac{1}{4}$ " BSP x $\frac{3}{8}$ " hose tail	
⑪	010516	1	Hose clamp, worm drive, No M00 (ϕ 11- ϕ 16)	
⑫	010950	As req	Hose ϕ 9.5 ID, black braided PVC, drain to oil tank	

Motor, high pressure water pump

Figure 242: Motor, high pressure water pump

Item	Part No	Qty	Description	
①	025373	1	Motor, hydraulic, 19cc	232
②	036554	1	Drive box kit 30lpm pump	
③	000017	4	Socket cap head screw, M8 x 30	
④	011093	4	Spring washer M8	
⑤	011154	2	Dowty seal $\frac{1}{2}$ " BSP	
⑥	011167	2	Adapter, M/M, $\frac{1}{2}$ " BSP x $\frac{3}{8}$ " BSP	
⑦	001149	2	Hose, $\frac{3}{8}$ " x 3550, $\frac{3}{8}$ " BSP straight and 90° ends, to/from options block Ports OB1 and OB2	
⑧	003010	1	Adapter $\frac{1}{4}$ " BSPT x $\frac{3}{8}$ " hose tail	
⑨	010516	1	Hose clamp, worm drive, No M00 (ϕ 11- ϕ 16)	
⑩	010950	As req	Hose ϕ 9.5 ID, black braided PVC, drain to oil tank	

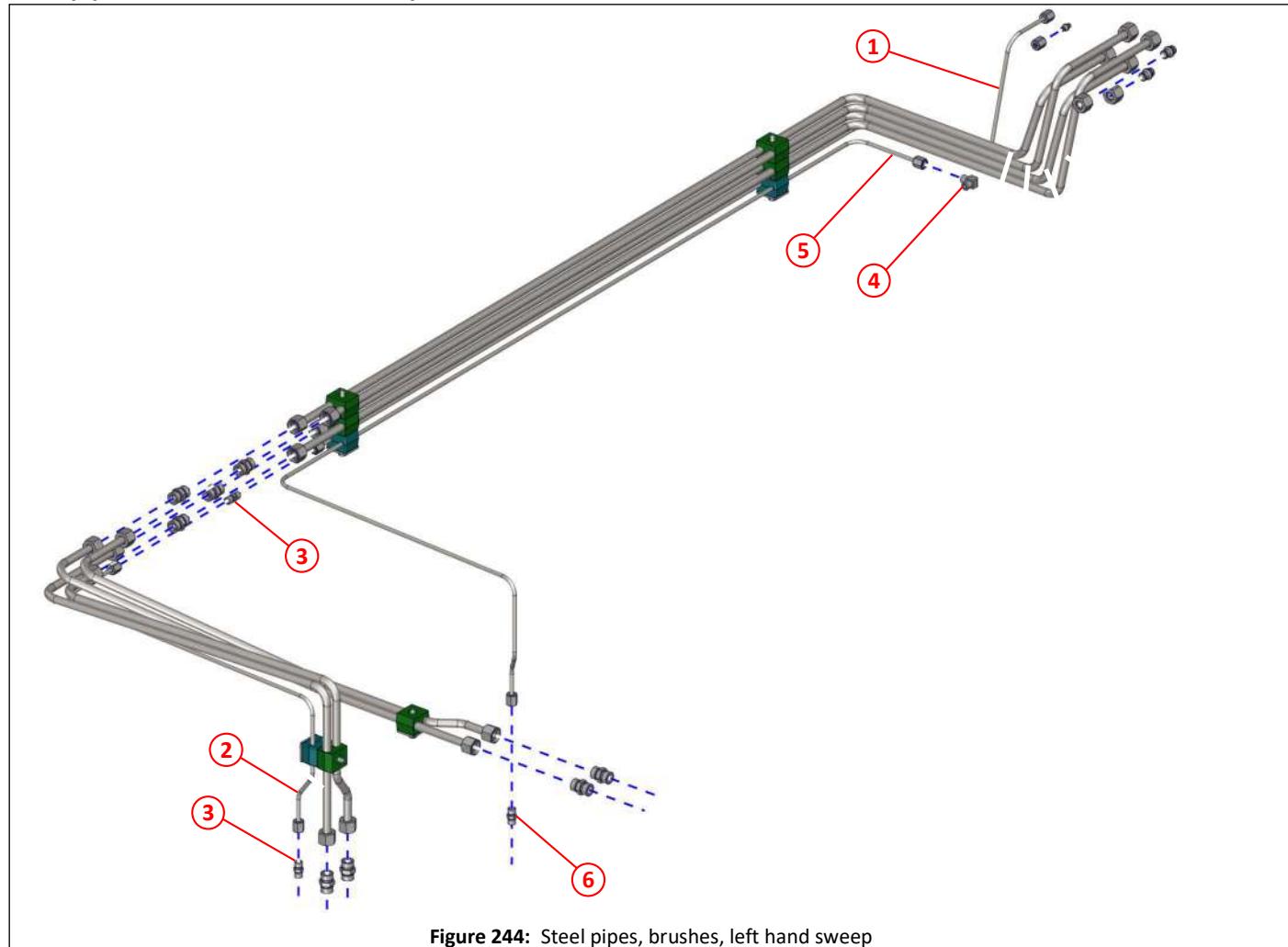
Hoses

Part No	Description	
001017	Hose $\frac{3}{8}$ " x 1000, $\frac{3}{8}$ " BSP straight ends	269, 270
001027	Hose, $\frac{1}{4}$ " BSP x 1270, straight ends	274
001036	Hose, $\frac{1}{4}$ " x 4100, $\frac{1}{4}$ " BSP straight ends	269
001037	Hose, $\frac{1}{4}$ " x 2650, $\frac{1}{2}$ " BSP straight and 90° ends	255
001075	Hose, $\frac{1}{2}$ " x 500, $\frac{1}{2}$ " BSP straight and 90° ends	259
001101	Hose, $\frac{1}{4}$ " BSP x 1125, straight and 90° ends	273
001149	Hose, $\frac{3}{8}$ " x 3550, $\frac{3}{8}$ " BSP straight and 90° ends	267, 279
001151	Hose, $\frac{1}{4}$ " x 3040, $\frac{1}{4}$ " BSP straight and 90° ends with 6mm elbow	257, 260
001167	Hose, $\frac{3}{8}$ " x 1200, $\frac{3}{8}$ " BSP straight ends	256, 266, 267, 276
001220	Hose, $\frac{3}{8}$ " x 410, $\frac{3}{8}$ " BSP straight and 90° ends	267, 278
001226	Hose, $\frac{3}{8}$ " x 530, $\frac{3}{8}$ " BSP straight and 90° ends	266, 267
001238	Hose, $\frac{5}{8}$ " x 420, $\frac{3}{4}$ " BSP straight and 90° ends	258
001261	Hose, $\frac{1}{2}$ " BSP x 350, 90°/90° 270° rotation	257, 254, 255
001264	Hose, $\frac{1}{4}$ " x 1000, $\frac{1}{4}$ " BSP straight ends	269, 271
001271	Hose, $\frac{1}{2}$ " BSP x 960, straight and 90° ends	248, 265
001306	Hose $\frac{5}{8}$ " x 1530, $\frac{5}{8}$ " BSP straight and 90° ends	257, 258
001308	Hose, $\frac{1}{2}$ " BSP x 2200, straight ends	248
001310	Hose, $\frac{5}{8}$ " x 1630, $\frac{3}{4}$ " BSP straight ends	253, 257, 258
001311	Hose, $\frac{5}{8}$ " x 5700, $\frac{3}{4}$ " BSP straight ends	253
001321	Hose, $\frac{1}{4}$ " BSP x 1850, straight ends	272
001322	Hose, $\frac{5}{8}$ " x 1550, $\frac{3}{4}$ " BSP straight ends	261, 277
001327	Hose, $\frac{3}{8}$ " x 310, 90° ends, 180° rotation	255, 256
001328	Hose, $\frac{1}{2}$ " BSP x 810, straight and 90° ends	248, 265
001333	Hose, $\frac{5}{8}$ " x 1700, $\frac{3}{4}$ " BSP straight ends	261, 277
002092	Hose, $\frac{3}{8}$ " x 340, $\frac{3}{8}$ " BSP straight and 90° ends	255, 256
010036	Hose, $\frac{1}{4}$ " x 4100, $\frac{1}{4}$ " BSP straight ends	269
010958	Hose, $\frac{3}{8}$ "	257, 260, 261, 269, 270, 277
010990	Hose, $\frac{1}{4}$ " x 600, $\frac{1}{4}$ " BSP straight ends	258, 260
011306	Hose, $\frac{3}{8}$ " x 1400, $\frac{3}{8}$ " BSP straight ends	256, 265
011307	Hose, $\frac{3}{8}$ " x 1300, $\frac{3}{8}$ " BSP straight ends	275
011310	Hose $\frac{3}{8}$ " x 300, $\frac{3}{8}$ " BSP straight ends	269
011311	Hose, $\frac{3}{8}$ " x 1100, $\frac{3}{8}$ " BSP straight ends	265, 269
011328	Hose, $\frac{1}{4}$ " BSP x 1780, straight ends	272
011329	Hose, $\frac{1}{4}$ " x 1200, $\frac{1}{4}$ " BSP straight ends	269, 271
031272	Hose, 2" x 300	250, 251
042893	Intercooler hose 'A'	248
042894	Intercooler hose 'B'	248
042895	Coolant hose 'A'	248
042896	Coolant hose 'B'	248
043769	Hose	251, 252, 253
043770	Hose	251, 252, 254
043771	Hose	251, 252, 254

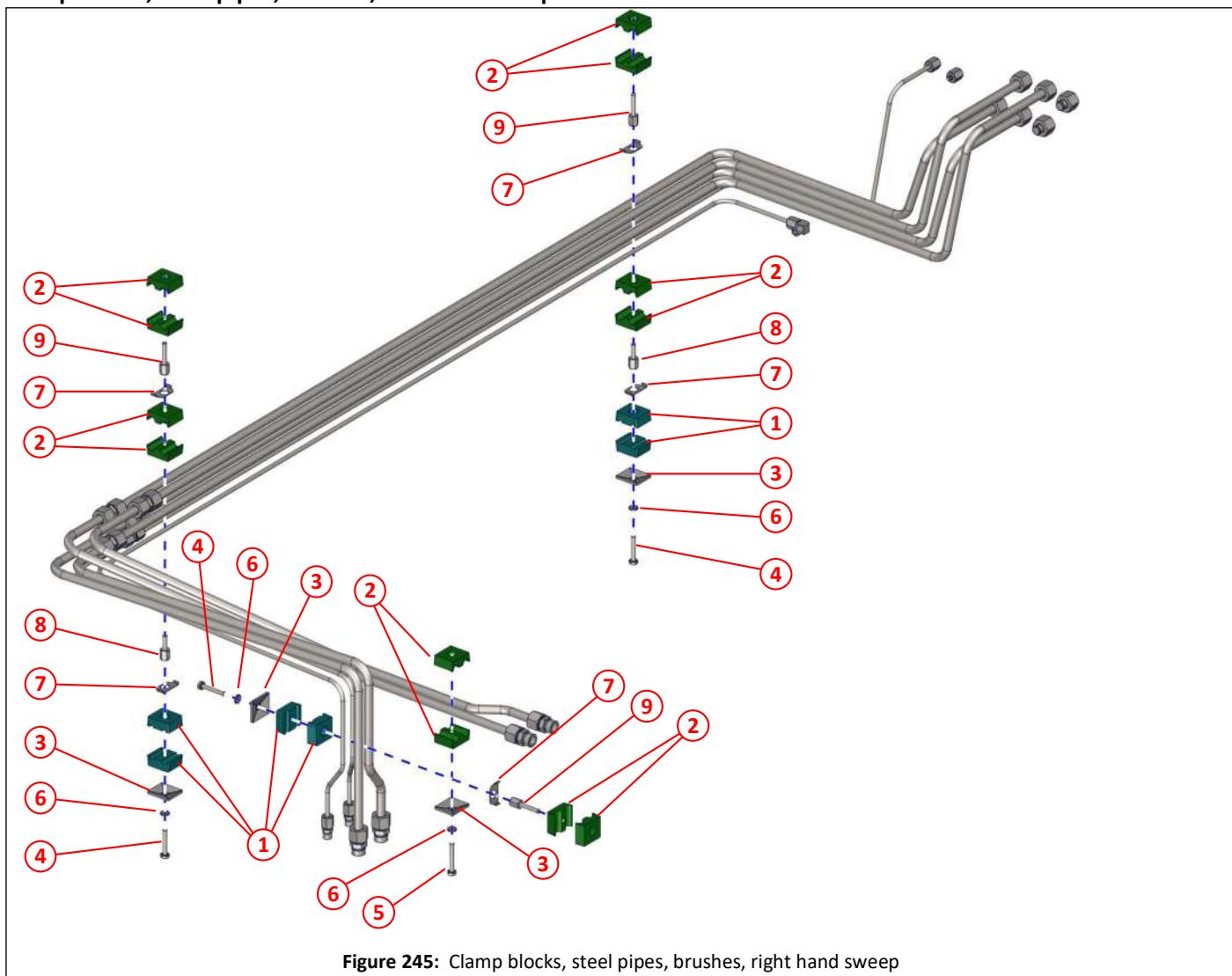
Steel pipes, brushes, left hand sweep

Figure 243: Steel pipes, brushes, left hand sweep

Item	Part No	Qty	Description
①	002236	1	Blanking plug 12mm
②	002130	1	Compression nut 12mm
③	002236	1	Blanking plug 12mm
④	002130	1	Compression nut 12mm
⑤	002235	1	Blanking plug 6mm
⑥	002132	1	Compression nut 6mm
⑦	043405	1	Pipe, steel, feed, left hand side brush, part 1
⑧	043406	1	Pipe, steel, feed, left hand side brush, part 2
⑨	002088	2	Union tube/tube 12mm x 12mm, body only
⑩	043407	1	Pipe, steel, return, left hand side brush, part 1
⑪	043408	1	Pipe, steel, return, left hand side brush, part 2
⑫	002088	2	Union tube/tube 12mm x 12mm, body only
⑬	043416	1	Pipe, steel, feed, central brush (wide sweep), part 1
⑭	043417	1	Pipe, steel, feed, central brush (wide sweep), part 2
⑮	002088	2	Union tube/tube 12mm x 12mm, body only
⑯	043418	1	Pipe, steel, return, central brush (wide sweep), part 1
⑰	043419	1	Pipe, steel, return, central brush (wide sweep), part 2
⑱	002088	2	Union tube/tube 12mm x 12mm, body only

Steel pipes, brushes, left hand sweep

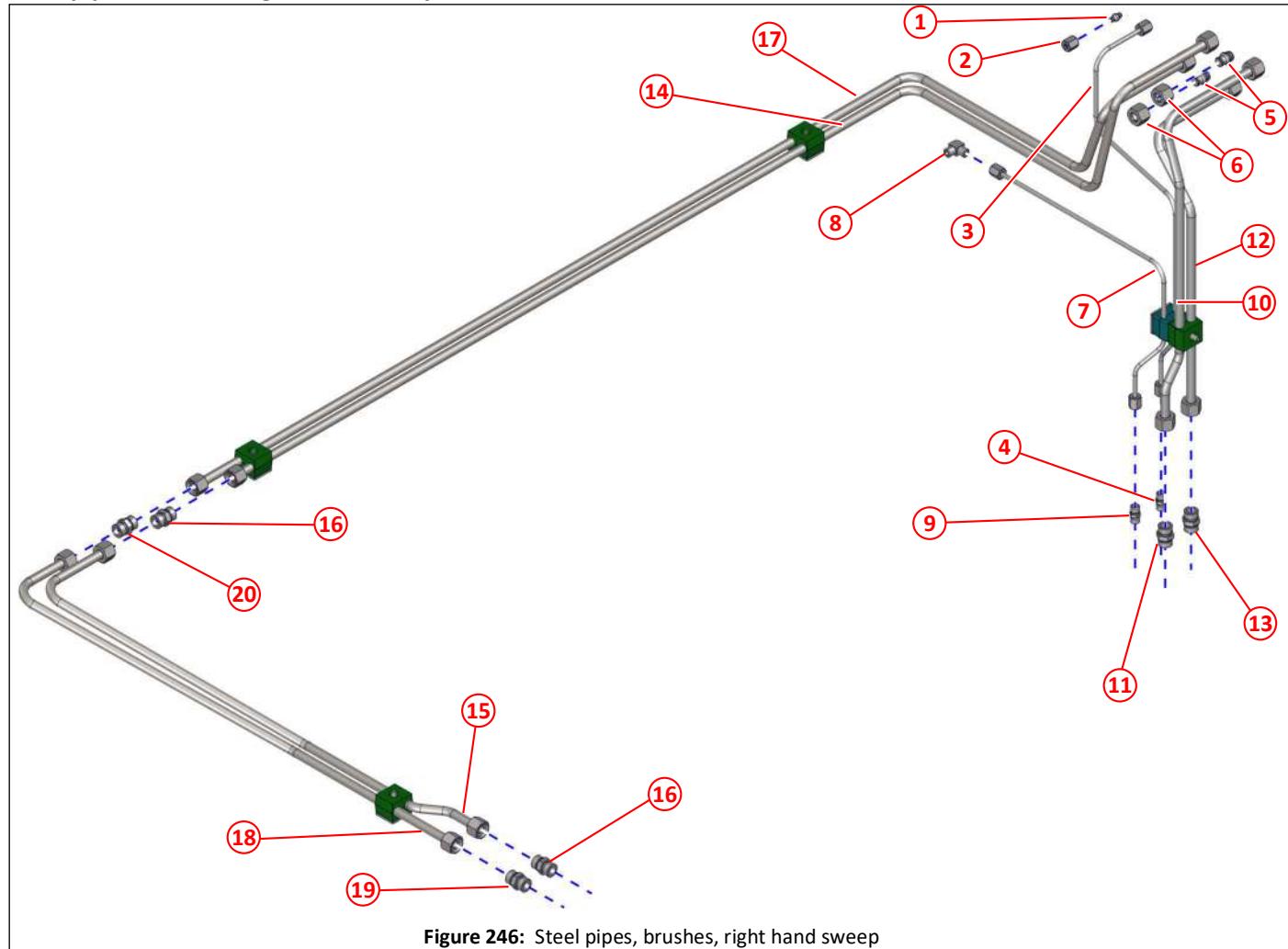


Item	Part No	Qty	Description
①	043409	1	Pipe, steel, lift, left hand side brush, part 1
②	043410	1	Pipe, steel, lift, left hand side brush, part 2
③	002052	2	Union tube/tube 6mm x 6mm, body only
④	002053	1	Union elbow 6mm x 6mm, body only
⑤	043411	1	Pipe, steel, tilt, left hand suction nozzle
⑥	002052	1	Union tube/tube 6mm x 6mm, body only

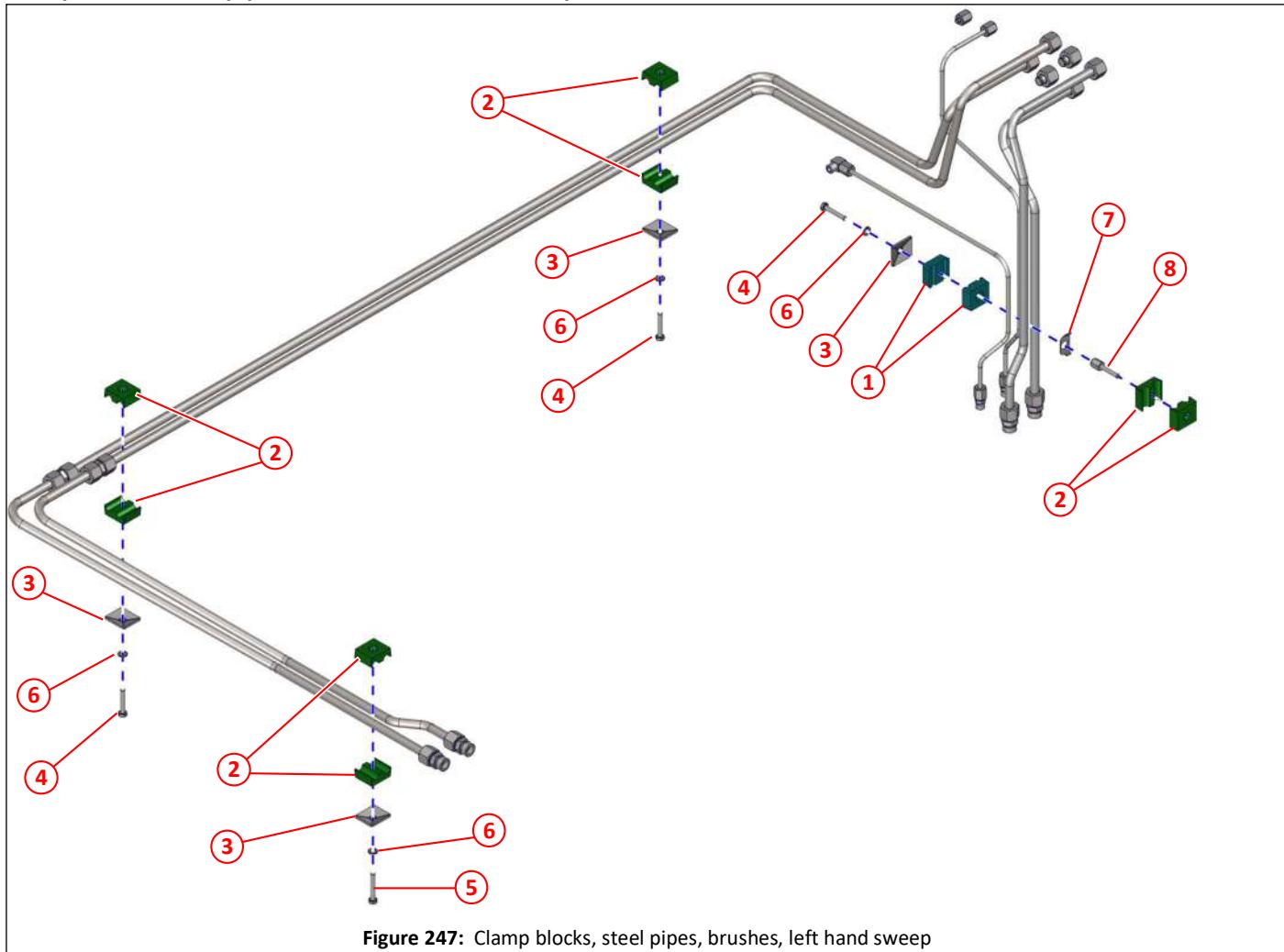
Clamp blocks, steel pipes, brushes, left hand sweep


Item	Part No	Qty	Description
①	027983	6	Pipe clamp block 6 x 6 double
②	027984	12	Pipe clamp block 12 x 12 double
③	027996	4	Pipe clamp top plate
④	011068	3	Bolt M6 x 35
⑤	000021	1	Set screw M6 x 40
⑥	011091	4	Spring washer M6
⑦	000472	5	Locking plate
⑧	000467	2	Stacking bolt 20mm (AF1)
⑨	000469	3	Stacking bolt 30mm (AF3)

Steel pipes, brushes, right hand sweep



Item	Part No	Qty	Description
①	002235	1	Blanking plug 6mm
②	002132	1	Compression nut 6mm
③	043414	1	Pipe, steel, lift, right hand side brush
④	002052	1	Union tube/tube 6mm x 6mm, body only
⑤	002236	2	Blanking plug 12mm
⑥	002130	2	Compression nut 12mm
⑦	043415	1	Pipe, steel, tilt, right hand suction nozzle
⑧	002053	1	Union elbow 6mm x 6mm, body only
⑨	002052	1	Union tube/tube 6mm x 6mm, body only
⑩	043412	1	Pipe, steel, feed, right hand side brush
⑪	002088	1	Union tube/tube 12mm x 12mm, body only
⑫	043413	1	Pipe, steel, return, right hand side brush
⑬	002088	1	Union tube/tube 12mm x 12mm, body only
⑭	043416	1	Pipe, steel, feed, central brush (wide sweep), part 1
⑮	043417	1	Pipe, steel, feed, central brush (wide sweep), part 2
⑯	002088	2	Union tube/tube 12mm x 12mm, body only
⑰	043418	1	Pipe, steel, return, central brush (wide sweep), part 1
⑱	043419	1	Pipe, steel, return, central brush (wide sweep), part 2
⑲	002088	2	Union tube/tube 12mm x 12mm, body only

Clamp blocks, steel pipes, brushes, left hand sweep

Figure 247: Clamp blocks, steel pipes, brushes, left hand sweep

Item	Part No	Qty	Description
①	027983	2	Pipe clamp block 6 x 6 double
②	027984	8	Pipe clamp block 12 x 12 double
③	027996	4	Pipe clamp top plate
④	011068	3	Bolt M6 x 35
⑤	000021	1	Set screw M6 x 40
⑥	011091	4	Spring washer M6
⑦	000472	1	Locking plate
⑧	000469	1	Stacking bolt 30mm (AF3)

Steel pipes, options block

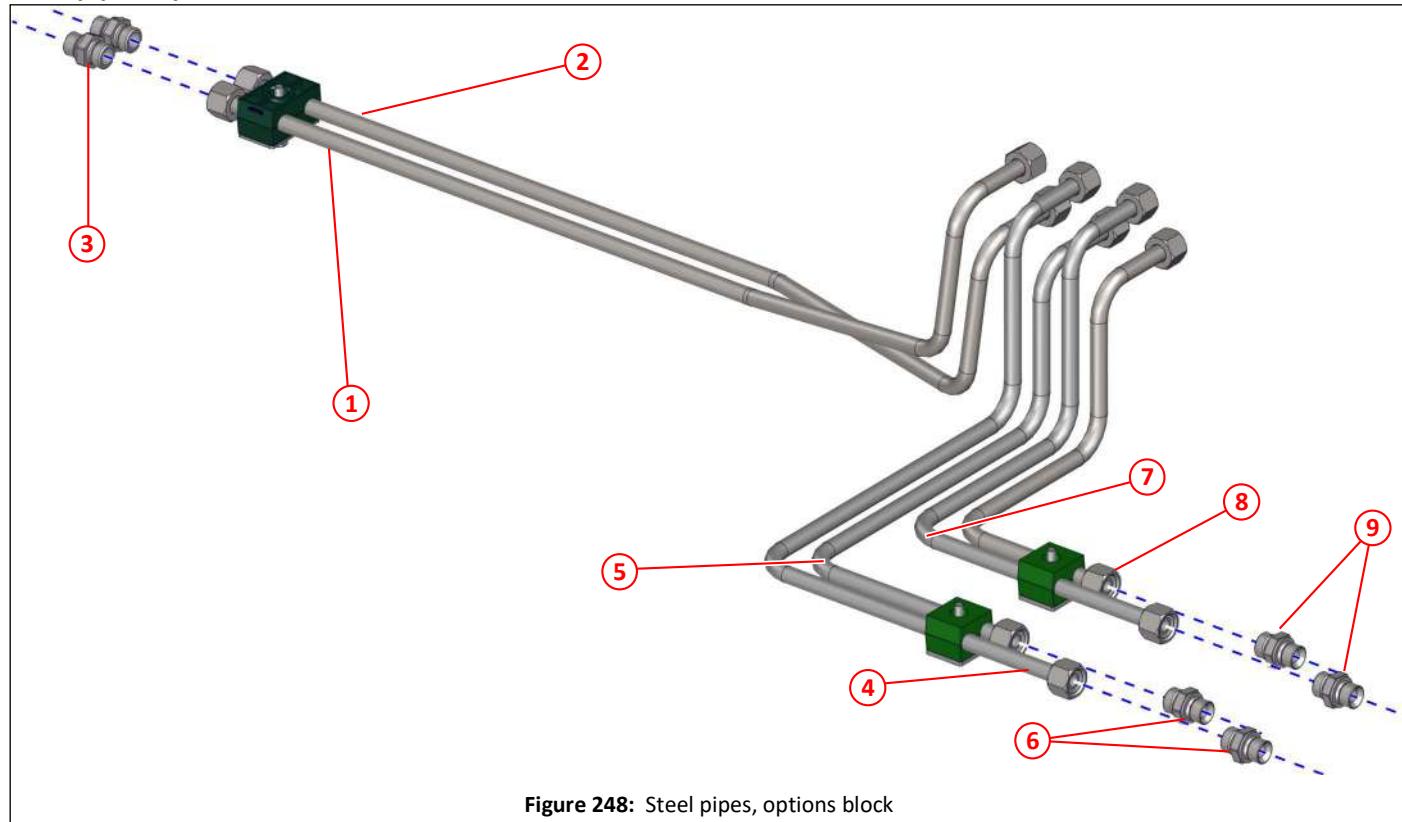


Figure 248: Steel pipes, options block

Item	Part No	Qty	Description
①	044676	1	Pipe, steel, feed, right hand auxiliary brush
②	044677	1	Pipe, steel, return, right hand auxiliary brush
③	020903	2	Adapter, M/M, 12 x $\frac{3}{8}$ " BSP
④	043401	1	Pipe, steel, feed, motor, high pressure water pump
⑤	043402	1	Pipe, steel, return, motor, high pressure water pump
⑥	020903	2	Adapter, M/M, 12 x $\frac{3}{8}$ " BSP
⑦	043399	1	Pipe, steel, feed, motor, low pressure water pump
⑧	043400	1	Pipe, steel, return, motor, low pressure water pump
⑨	020903	2	Adapter, M/M, 12 x $\frac{3}{8}$ " BSP

Clamp blocks, steel pipes, options block

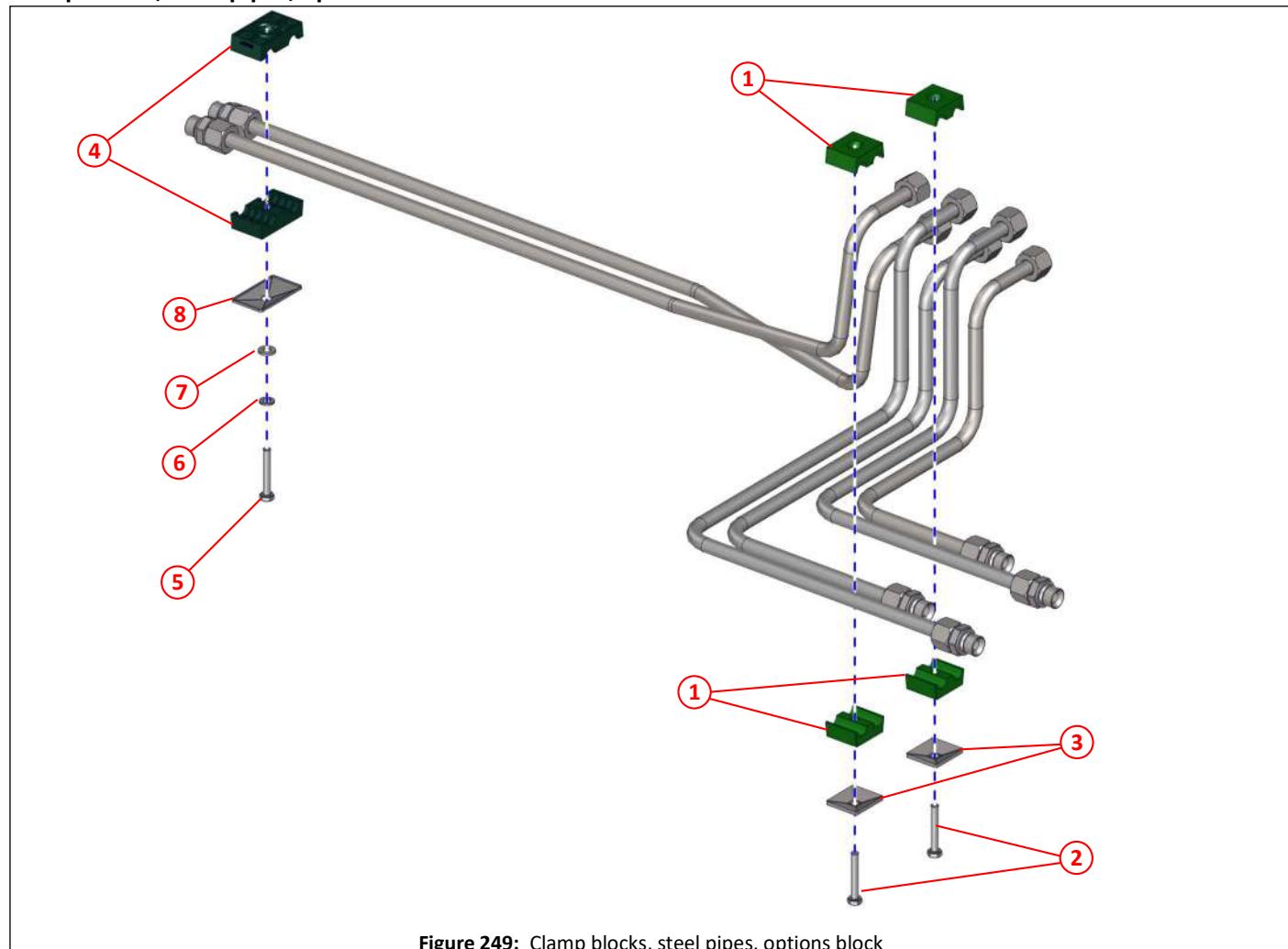


Figure 249: Clamp blocks, steel pipes, options block

Item	Part No	Qty	Description
①	027984	4	Pipe clamp block 12 x 12 double
②	000021	2	Set screw M6 x 40
③	027996	2	Pipe clamp top plate
④	043590	2	Pipe clamp block 12.7 x 12.7 double
⑤	000021	1	Set screw M6 x 40
⑥	011091	1	Spring washer M6
⑦	011090	1	Plain washer M6
⑧	031919	1	Clamp plate flat

Steel pipes, suction fan and rear door open/close/lock

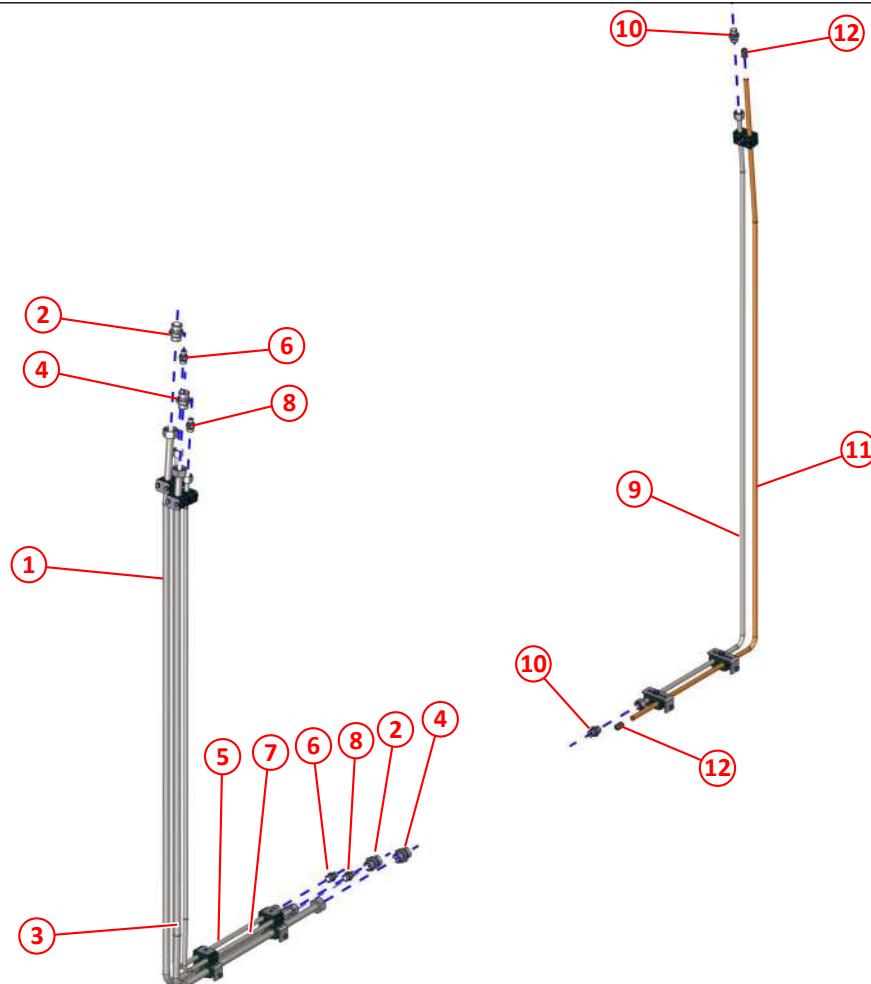
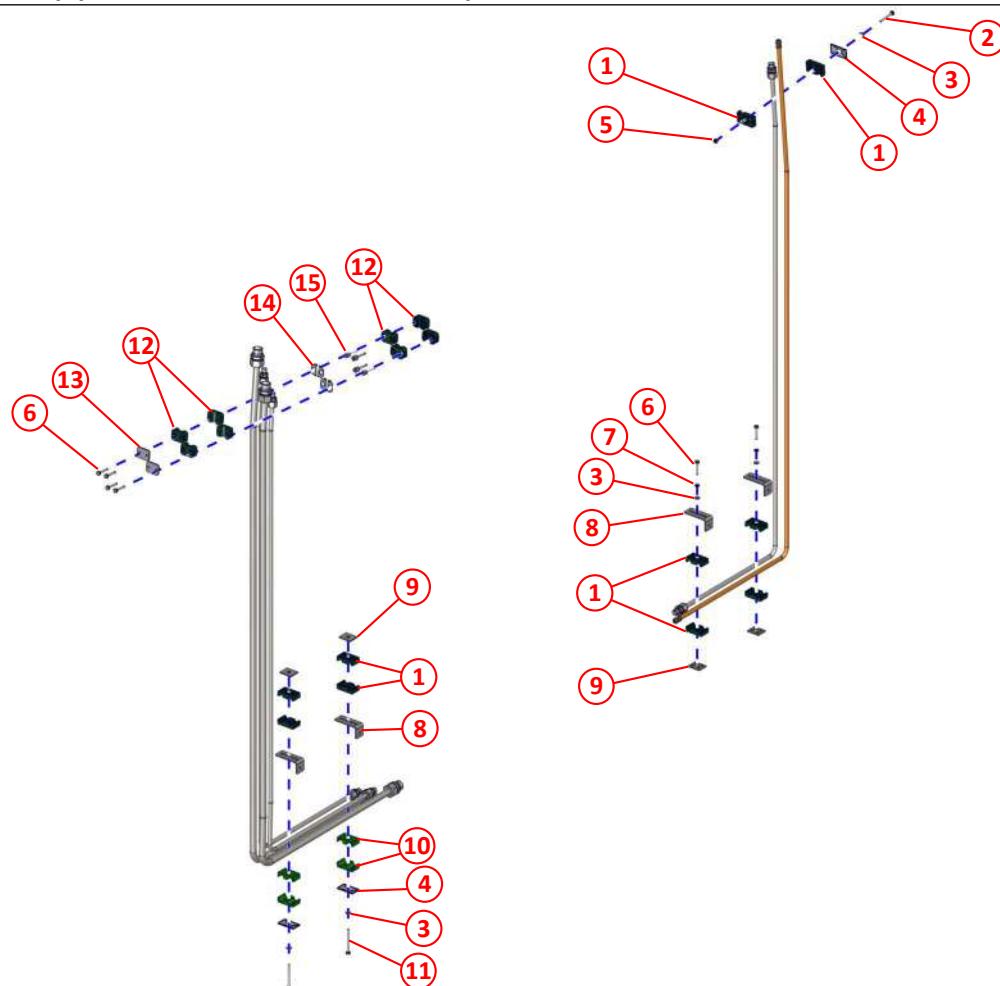


Figure 250: Steel pipes, suction fan and rear door open/close/lock

Item	Part No	Qty	Description
①	043602	1	Pipe, steel, feed, suction fan motor
②	002017	2	Adapter, compression, M/M, 18mm x $\frac{3}{4}$ " BSP
③	043603	1	Pipe, steel, return, suction fan motor
④	002117	2	Adapter, compression, M/M, 18mm x $\frac{3}{4}$ " BSP
⑤	043605	1	Pipe, steel, rear door open
⑥	002086	2	Adapter, M/M, 12 x $\frac{1}{4}$ " BSP
⑦	043606	1	Pipe, steel, rear door close/lock
⑧	002086	2	Adapter, M/M, 12 x $\frac{1}{4}$ " BSP
⑨	043604	1	Pipe, steel, suction fan motor case drain
⑩	020903	2	Adapter, M/M, 12 x $\frac{3}{8}$ " BSP
⑪	043607	1	Hopper loom rail
⑫	043065	2	Pipe cap, ø12

Clamp blocks, steel pipes, suction fan and rear door open/close/lock

Figure 251: Clamp blocks, steel pipes, suction fan and rear door open/close/lock

Item	Part No	Qty	Description
①	043590	10	Pipe clamp block 12.7 x 12.7 double
②	011003	1	Set screw M6 x 50
③	011090	5	Plain washer M6
④	031919	3	Clamp plate flat
⑤	011071	1	Nyloc nut M6
⑥	011068	6	Bolt M6 x 35
⑦	011091	2	Spring washer M6
⑧	026196	4	Bracket, anti-vibration
⑨	027993	4	Pipe clamp bottom plate, small
⑩	027988	4	Pipe clamp block 18 x 18 double
⑪	011143	2	Set screw M6 x 70
⑫	042796	8	Pipe clamp block 18 x 18 double
⑬	031317	2	Clamp plate flat
⑭	000472	4	Locking plate
⑮	000470	4	Stacking bolt 35mm (AF4)

Pneumatics

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Pneumatic control valves, pre August 2017, 24v system

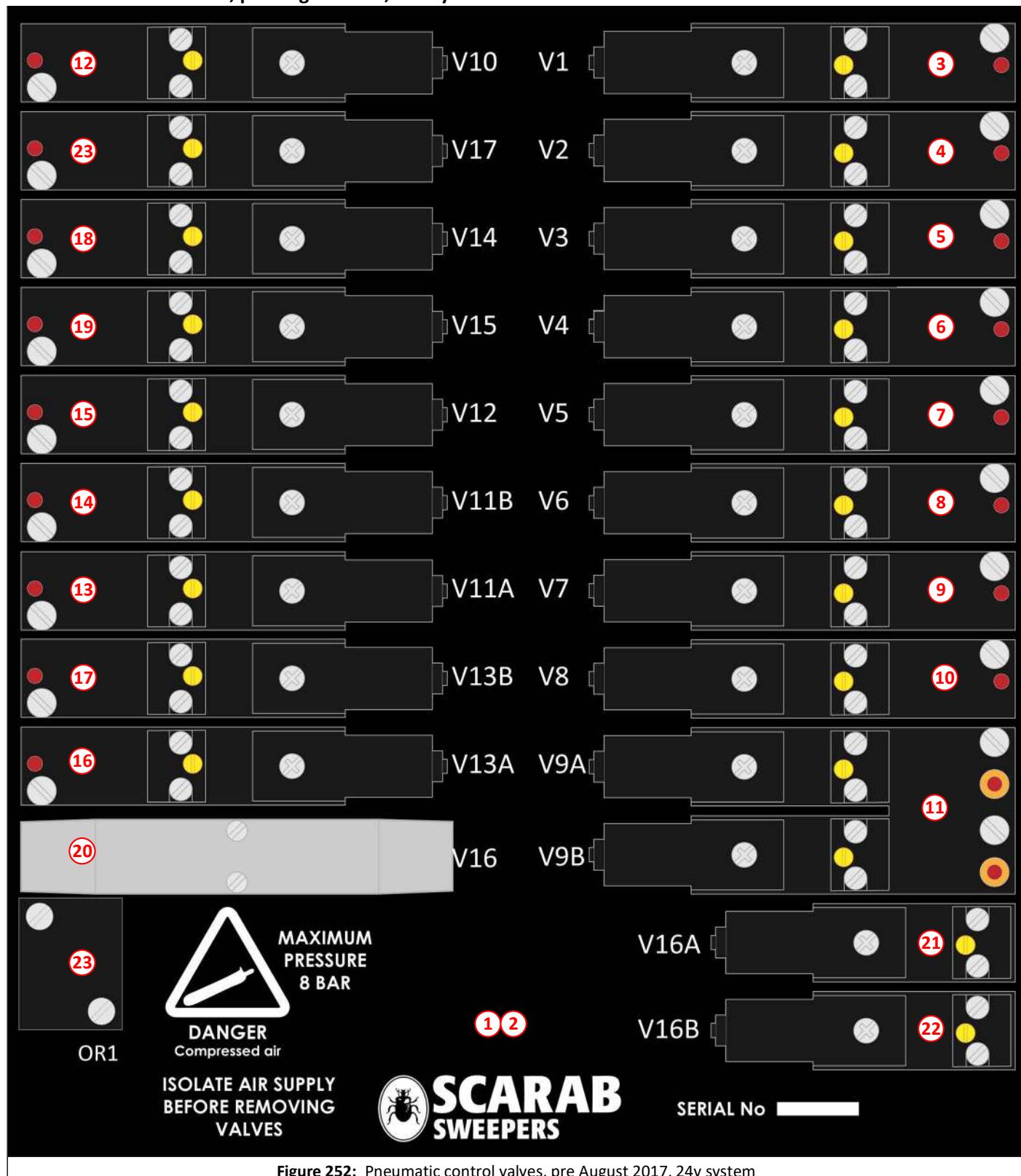
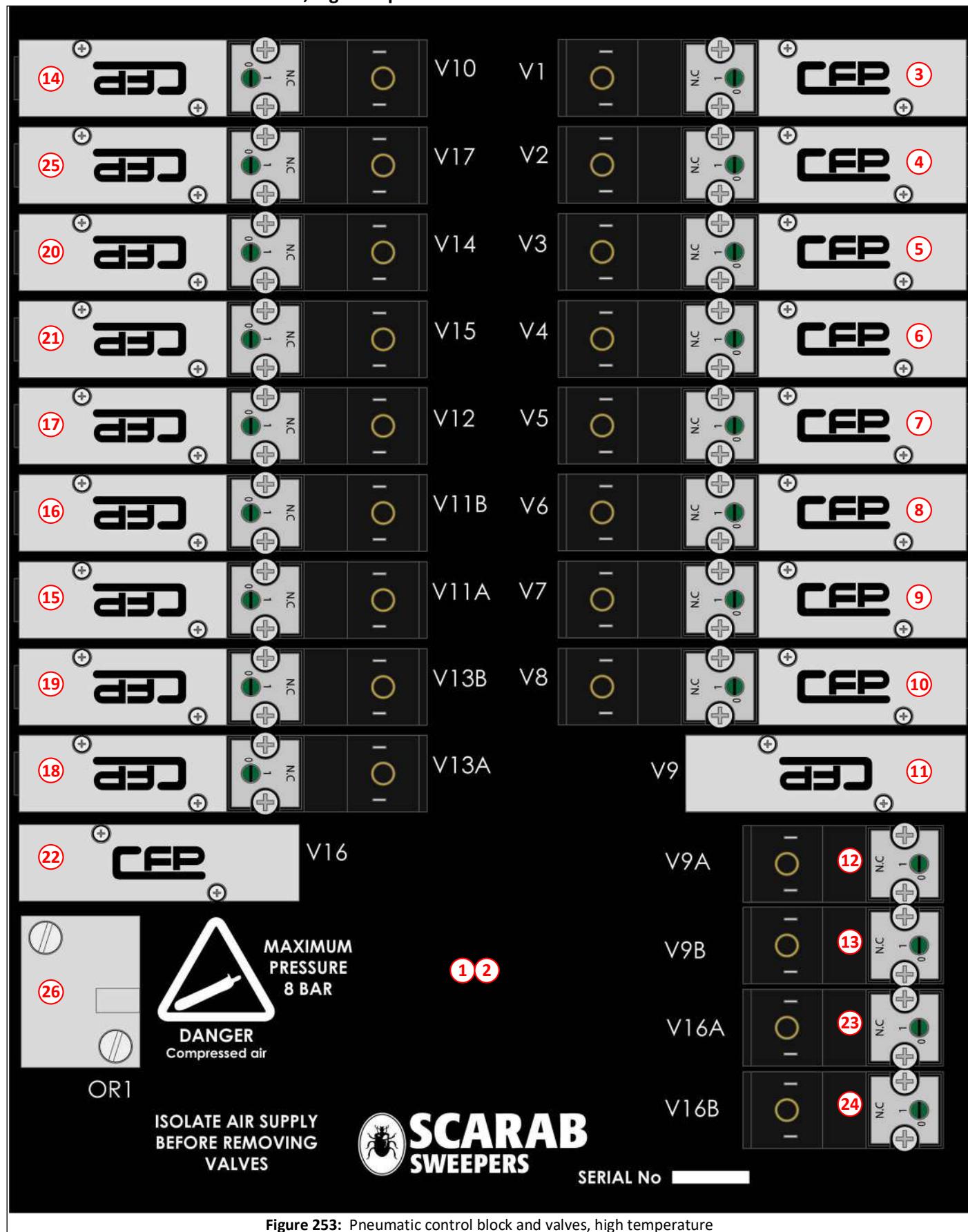


Figure 252: Pneumatic control valves, pre August 2017, 24v system

Pneumatic control valves, pre August 2017, 24v system

Item	Part No	Qty	Description	
①	034631	1	Pneumatic control block, populated	
②		1	Pneumatic control block, bare	
③	035673	1	V1 - 4/2 pilot spring valve and solenoid	
④	035673	1	V2 - 4/2 pilot spring valve and solenoid	
⑤	035673	1	V3 - 4/2 pilot spring valve and solenoid	
⑥	035673	1	V4 - 4/2 pilot spring valve and solenoid	
⑦	035673	1	V5 - 4/2 pilot spring valve and solenoid	
⑧	035673	1	V6 - 4/2 pilot spring valve and solenoid	
⑨	035673	1	V7 - 4/2 pilot spring valve and solenoid	
⑩	035673	1	V8 - 4/2 pilot spring valve and solenoid	
⑪	035674	1	V9A&B - 4/2 pilot/pilot valve and solenoid	
⑫	035673	1	V10 - 4/2 pilot spring valve and solenoid	
⑬	035673	1	V11A - 4/2 pilot spring valve and solenoid	
⑭	035673	1	V11B - 4/2 pilot spring valve and solenoid	
⑮	035673	1	V12 - 4/2 pilot spring valve and solenoid	
⑯	035673	1	V13A - 4/2 pilot spring valve and solenoid	
⑰	035673	1	V13B - 4/2 pilot spring valve and solenoid	
⑱	035673	1	V14 - 4/2 pilot spring valve and solenoid	
⑲	035673	1	V15 - 4/2 pilot spring valve and solenoid	
⑳	035675	1	V16 - 5/3 pilot/pilot valve and solenoid	
㉑	035685	1	V16A - valve and solenoid	
㉒	035685	1	V16B - valve and solenoid	
㉓	032710	1	OR1 - OR gate valve	
NI	035653	AR	Blanking plate, used in place of 035673	
NI	035671	1	Blanking plate, used in place of 035675	
NI	035672	1	Blanking plate, used in place of 032710	

Pneumatic control block and valves, high temperature



i Please note the following table and pages have both 24v and 12v components. Please ensure you select the correct voltage part for your vehicle.

Pneumatic control block and valves, high temperature

Item	Part No	Qty	Description	
①	045293	1	Pneumatic control block (HAF), populated, 24v	
①	045303	1	Pneumatic control block (HAF), populated, 12v	
②	045474	1	Pneumatic control block (HAF), bare	
③	045385	1	V1 - 5/2 HT solenoid & spring valve 24v, LH side brush in/out	
③	045406	1	V1 - 5/2 HT solenoid & spring valve 12v, LH side brush in/out	
④	045385	1	V2 - 5/2 HT solenoid & spring valve 24v, LH suction nozzle lift/lower	
④	045406	1	V2 - 5/2 HT solenoid & spring valve 12v, LH suction nozzle lift/lower	
⑤	045385	1	V3 - 5/2 HT solenoid & spring valve 24v, LH auto blanking flap open/close	
⑤	045406	1	V3 - 5/2 HT solenoid & spring valve 12v, LH auto blanking flap open/close	
⑥	045385	1	V4 - 5/2 HT solenoid & spring valve 24v, RH auto blanking flap open/close	
⑥	045406	1	V4 - 5/2 HT solenoid & spring valve 12v, RH auto blanking flap open/close	
⑦	045385	1	V5 - 5/2 HT solenoid & spring valve 24v, RH suction nozzle open/close	
⑦	045406	1	V5 - 5/2 HT solenoid & spring valve 12v, RH suction nozzle open/close	
⑧	045385	1	V6 - 5/2 HT solenoid & spring valve 24v, RH side brush in/out	
⑧	045406	1	V6 - 5/2 HT solenoid & spring valve 12v, RH side brush in/out	
⑨	045385	1	V7 - 5/2 HT solenoid & spring valve 24v, central brush (wide sweep) swivel/slew	
⑨	045406	1	V7 - 5/2 HT solenoid & spring valve 12v, central brush (wide sweep) swivel/slew	
⑩	045385	1	V8 - 5/2 HT solenoid & spring valve 24v, rear boom flap	
⑩	045406	1	V8 - 5/2 HT solenoid & spring valve 12v, 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	
⑫	045382	1	V9A - 5/2 HT 15mm solenoid 12v, full pressure side brush down	
⑬	045381	1	V9B - 5/2 HT 15mm solenoid 24v, full pressure side brush up	
⑬	045382	1	V9B - 5/2 HT 15mm solenoid 12v, full pressure side brush up	
⑭	045385	1	V10 - 5/2 HT solenoid & spring valve 24v, hopper prop	
⑭	045406	1	V10 - 5/2 HT solenoid & spring valve 12v, hopper prop	
⑮	045385	1	V11A - 5/2 HT solenoid & spring valve 24v, side brush pressure up	
⑮	045406	1	V11A - 5/2 HT solenoid & spring valve 12v, side brush pressure up	
⑯	045385	1	V11B - 5/2 HT solenoid & spring valve 24v, side brush pressure down	
⑯	045406	1	V11B - 5/2 HT solenoid & spring valve 12v, side brush pressure down	
⑰	045385	1	V12 - 5/2 HT solenoid & spring valve 24v, central brush (wide sweep) lift/lower	
⑰	045406	1	V12 - 5/2 HT solenoid & spring valve 12v, central brush (wide sweep) lift/lower	
⑱	045385	1	V13A - 5/2 HT solenoid & spring valve 24v, central brush (wide sweep) up pressure	
⑱	045406	1	V13A - 5/2 HT solenoid & spring valve 12v, central brush (wide sweep) up pressure	
⑲	045385	1	V13B - 5/2 HT solenoid & spring valve 24v, central brush (wide sweep) down pressure	
⑲	045406	1	V13B - 5/2 HT solenoid & spring valve 12v, central brush (wide sweep) down pressure	
⑳	045385	1	V14 - 5/2 HT solenoid & spring valve 24v, auxiliary brush slide out	
⑳	045406	1	V14 - 5/2 HT solenoid & spring valve 12v, auxiliary brush slide out	
㉑	045385	1	V15 - 5/2 HT solenoid & spring valve 24v, auxiliary brush lower	
㉑	045406	1	V15 - 5/2 HT solenoid & spring valve 12v, 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	
㉓	045382	1	V16A - 5/2 HT 15mm solenoid 12v, air operated rear boom raise	
㉔	045381	1	V16B - 5/2 HT 15mm solenoid 24v, air operated rear boom lower	
㉔	045382	1	V16B - 5/2 HT 15mm solenoid 12v, air operated rear boom lower	
㉕	045385	1	V17 - 5/2 HT solenoid/spring valve 24v, auxiliary brush swing in/out	
㉕	045406	1	V17 - 5/2 HT solenoid/spring valve 12v, auxiliary brush swing in/out	
㉖	032710	1	OR1 - OR gate valve	

5/2 HT spring valve body and 15mm HT solenoid valve

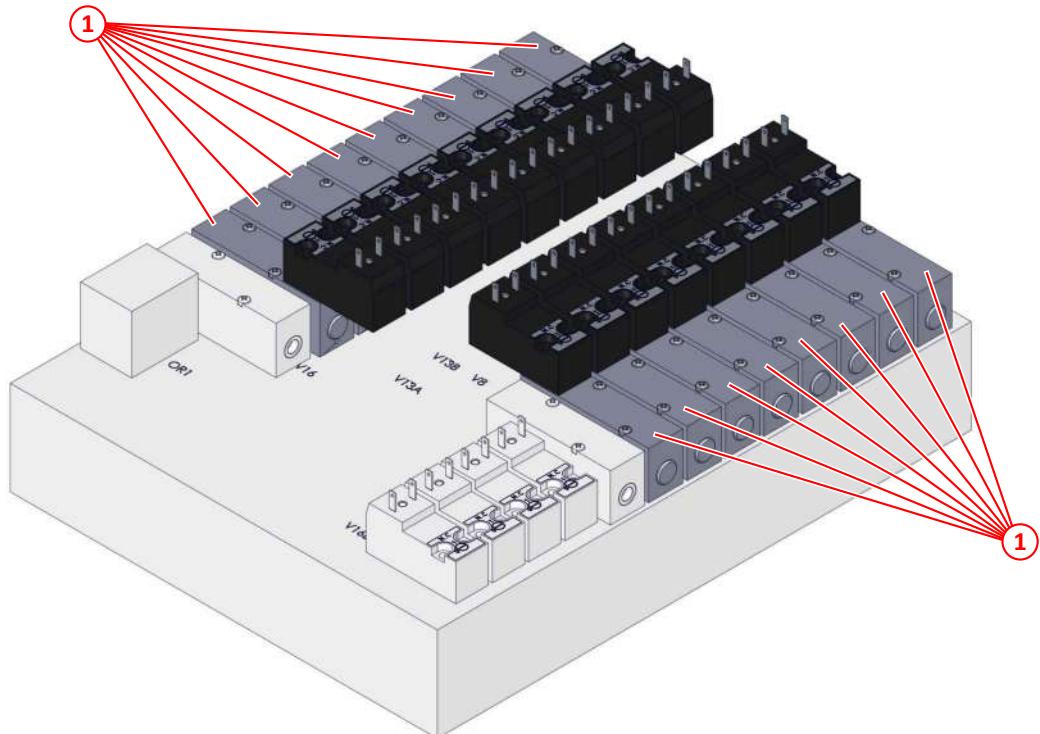


Figure 254: 5/2 HT spring valve body and 15mm HT solenoid valve

Item	Part No	Qty	Description	
①	045385	17	5/2 HT spring valve body and 15mm HT solenoid valve, 24v	
①	045406	17	5/2 HT spring valve body and 15mm HT solenoid valve, 12v	

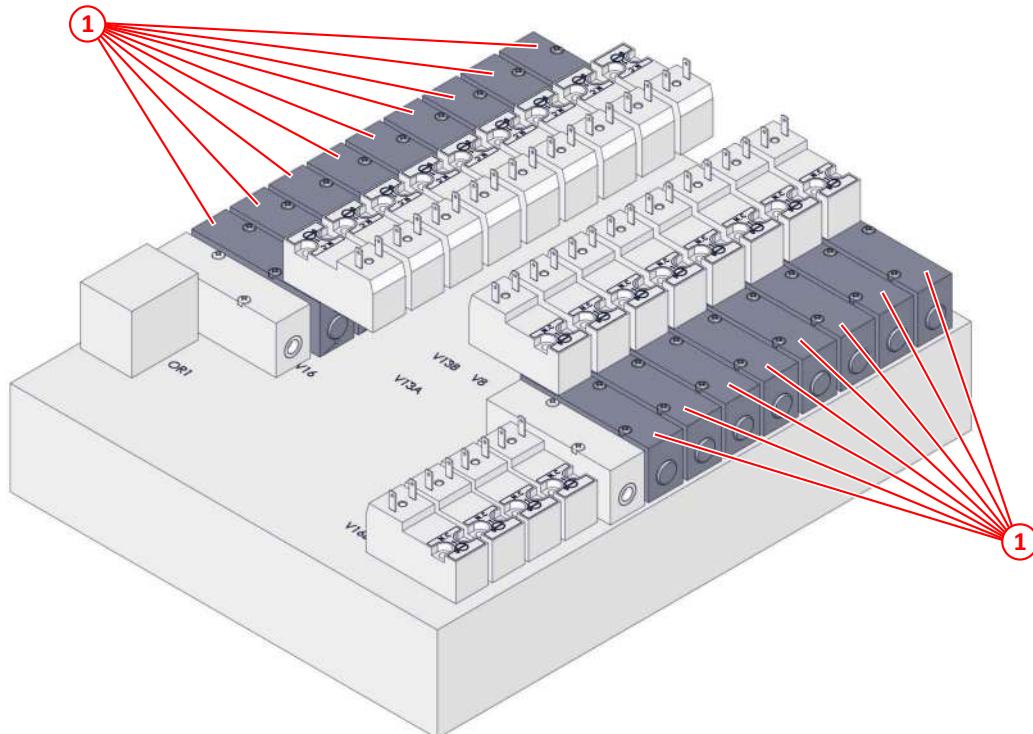
5/2 HT spring valve body


Figure 255: 5/2 HT spring valve body

Item	Part No	Qty	Description	
①	045386	17	5/2 HT spring valve body	

15mm HT solenoid valve,

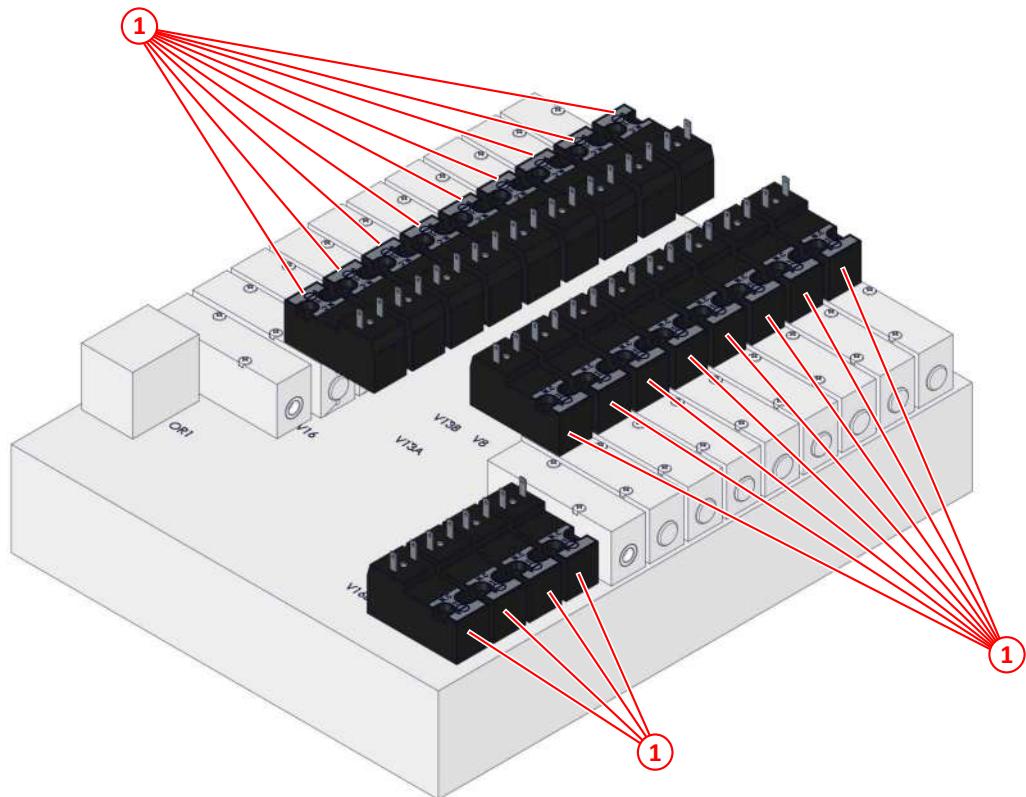


Figure 256: 15mm HT solenoid valve

Item	Part No	Qty	Description	
①	045381	21	15mm HT solenoid valve, 24v	
①	045382	21	15mm HT solenoid valve, 12v	

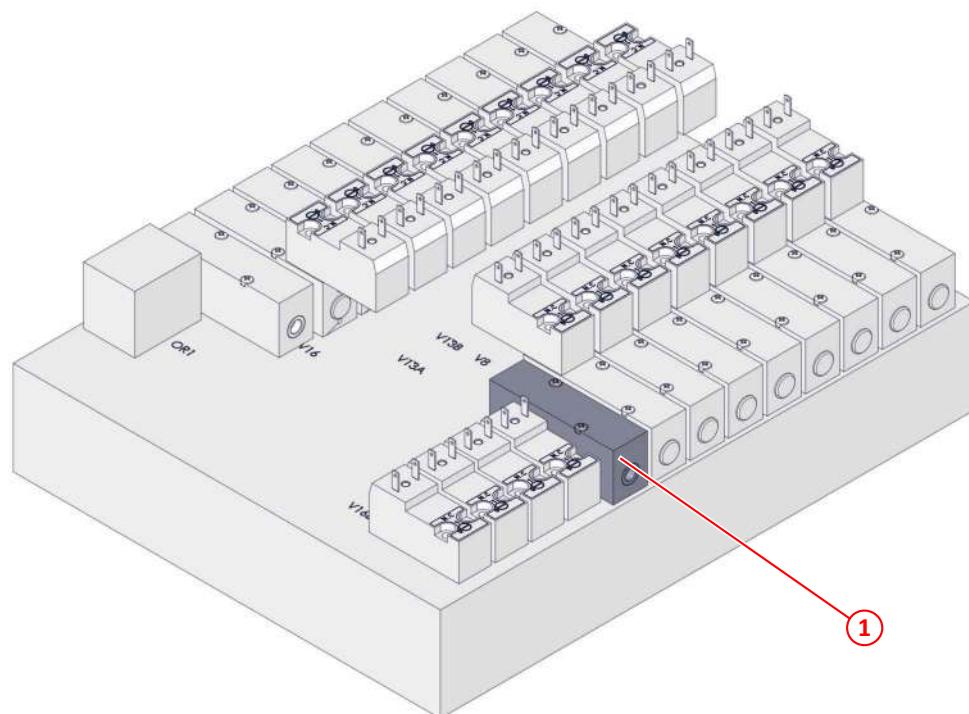
5/2 pilot/pilot HT valve


Figure 257: 5/2 pilot/pilot HT valve

Item	Part No	Qty	Description	
①	045383	1	5/2 pilot/pilot HT valve	

5/3 pilot/pilot HT valve

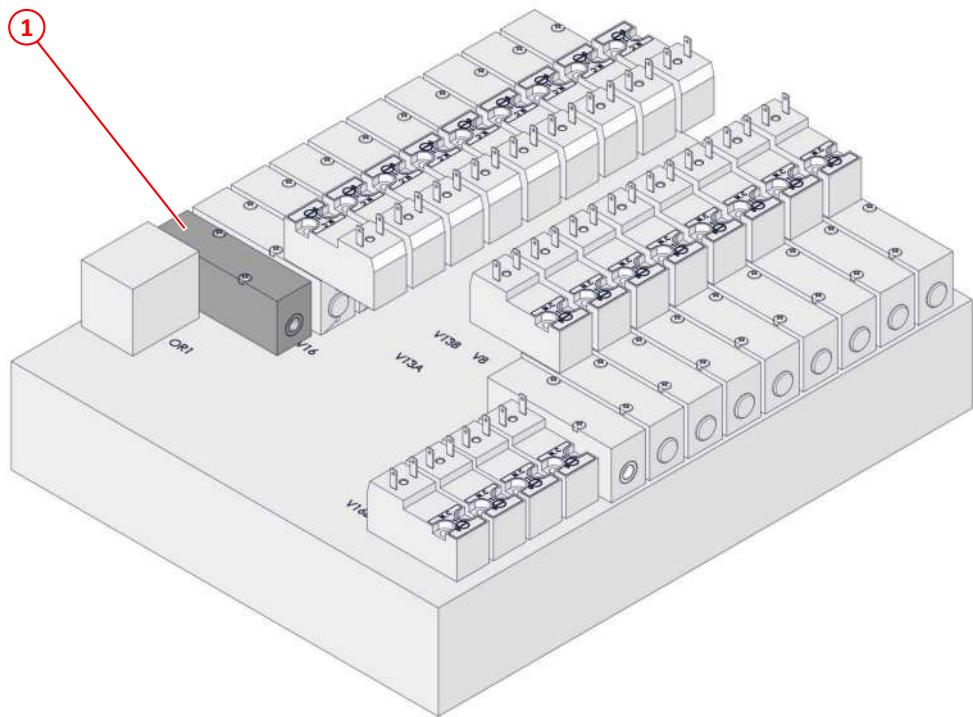


Figure 258: 5/2 pilot/pilot HT valve

Item	Part No	Qty	Description	
①	045384	1	5/3 pilot/pilot HT valve	

Valve, OR gate

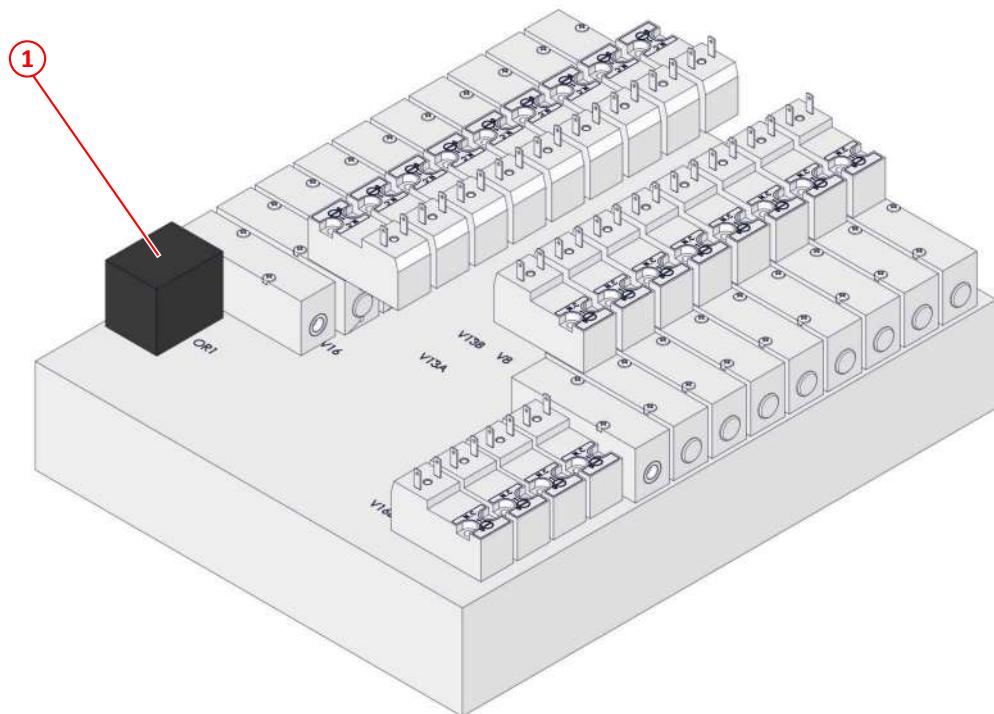


Figure 259: Valve, OR gate, high temperature

Item	Part No	Qty	Description	
①	032710	1	Valve, OR gate	

Seals and gaskets

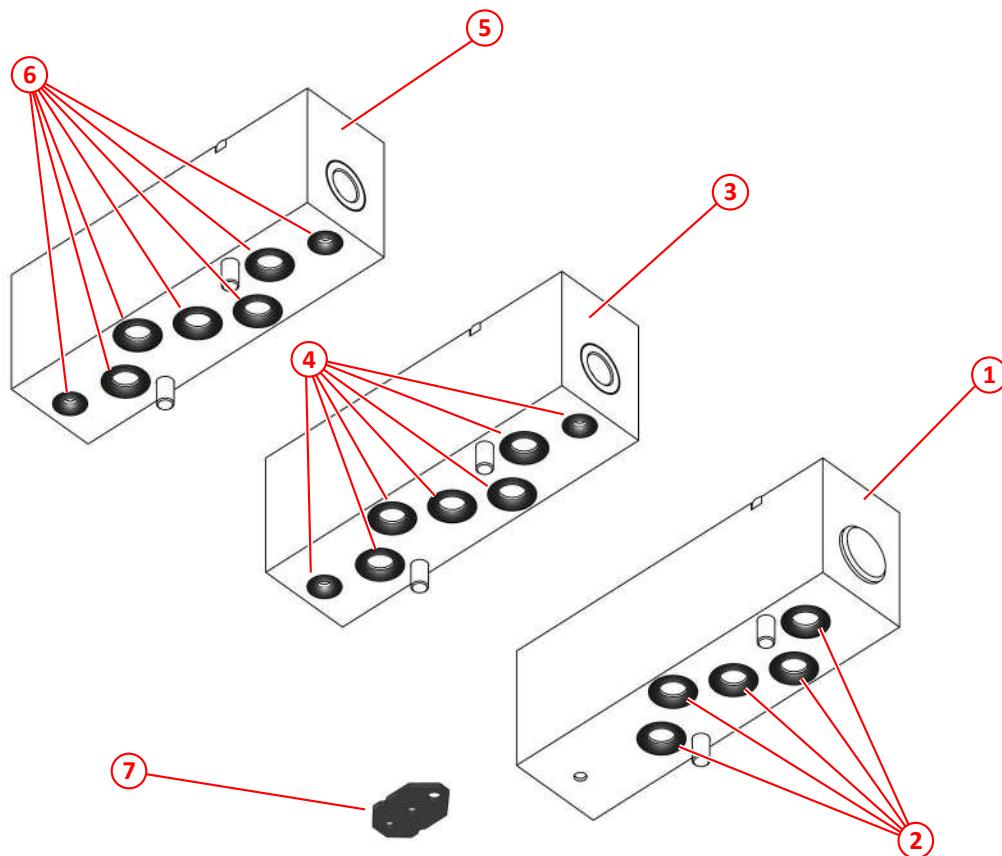
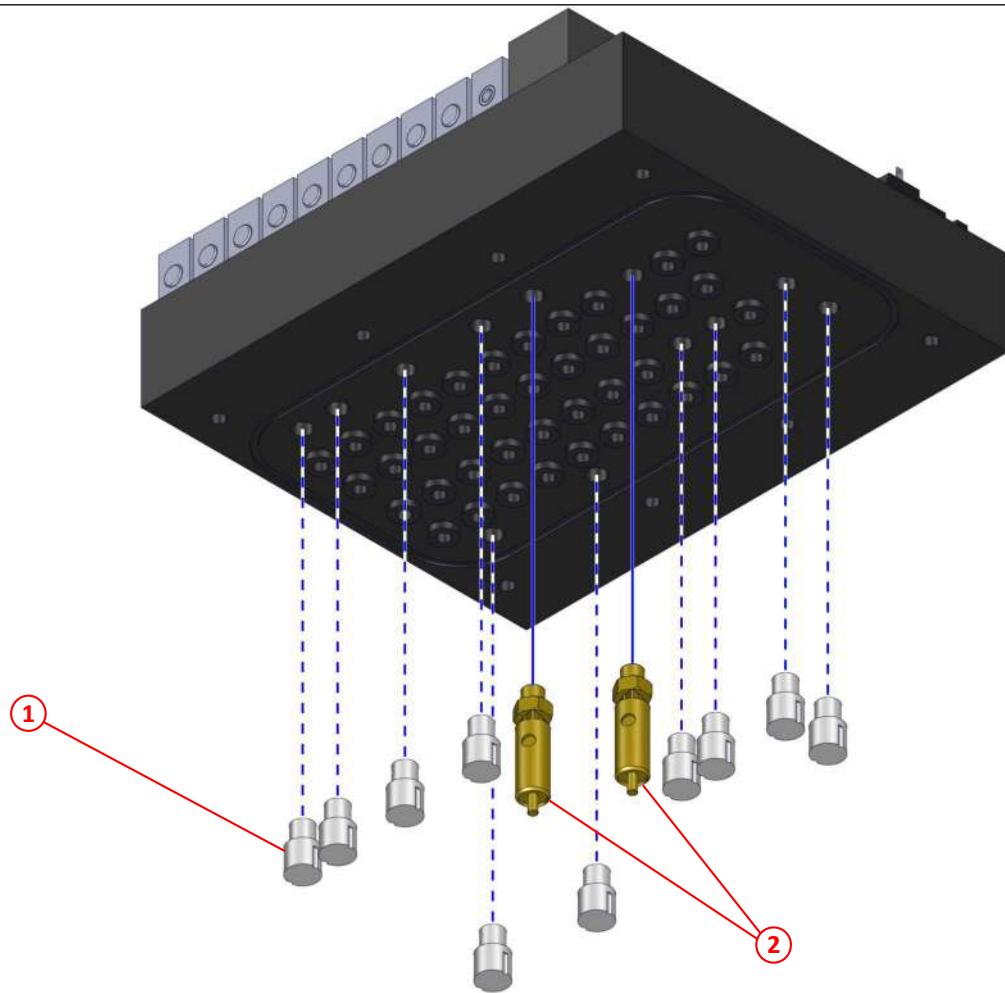


Figure 260: Seals and gaskets

Item	Part No	Qty	Description	
①	045386	17	5/2 HT spring valve body	297
②	045388	1	Seal kit for item ①, contains 5 of $\phi 4 \times \phi 1.5$ o-rings	
③	045383	1	5/2 pilot/pilot HT valve	299
④	045389	1	Seal kit for item ③, contains 5 of $\phi 4 \times \phi 1.5$ & 2 of $\phi 2 \times \phi 1.5$ o-rings	
⑤	045384	1	5/3 pilot/pilot HT valve	300
⑥	045390	1	Seal kit for item ⑤, contains 5 of $\phi 4 \times \phi 1.5$ & 2 of $\phi 2 \times \phi 1.5$ o-rings	
⑦	045387	1	Spare pilot solenoid gasket	

Breather and relief valves

Figure 261: Breather and relief valves

Item	Part No	Qty	Description	
①	006067	11	1/8" one way breather valve	
②	032709	2	Relief valve	

Pneumatic regulator and filter

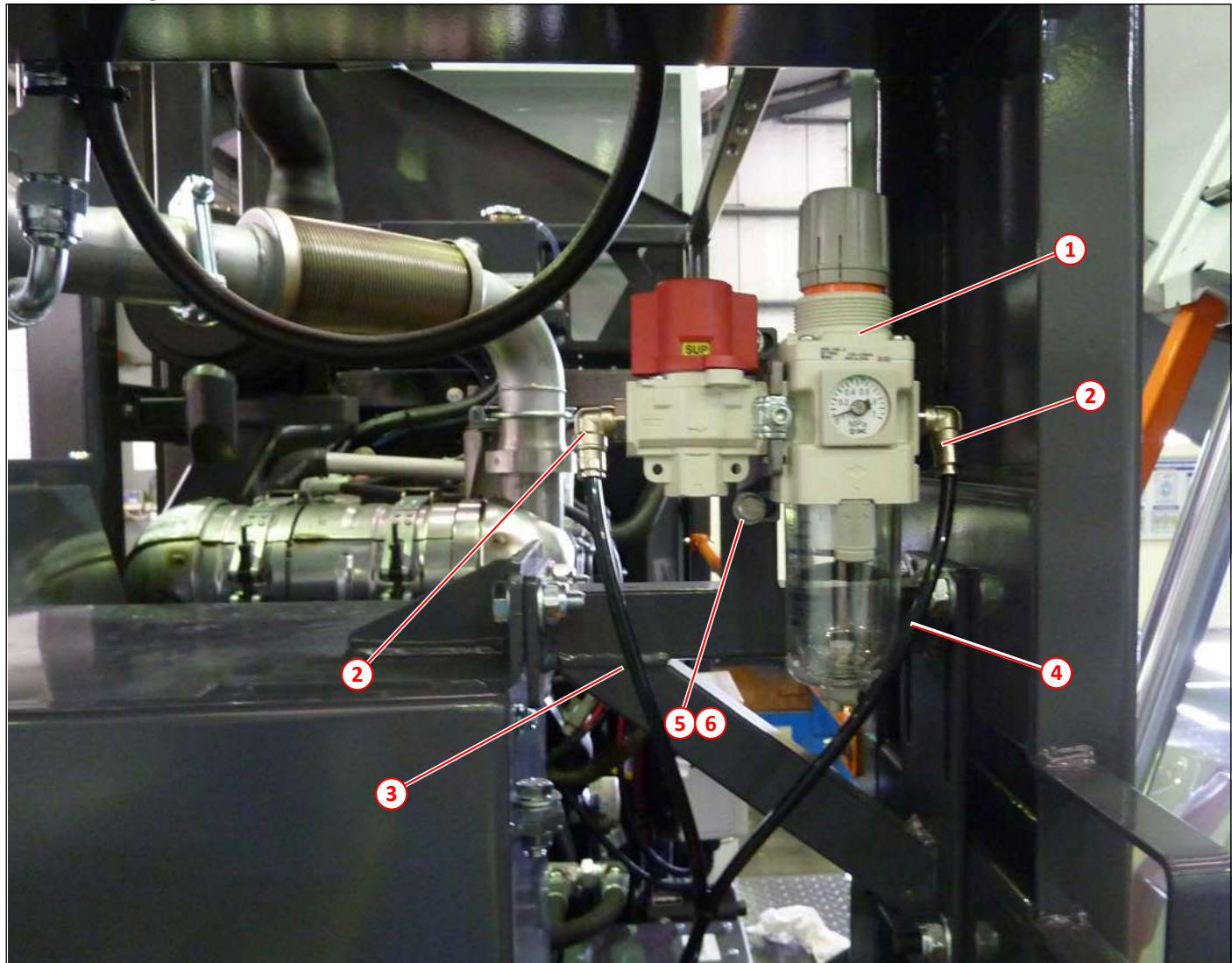
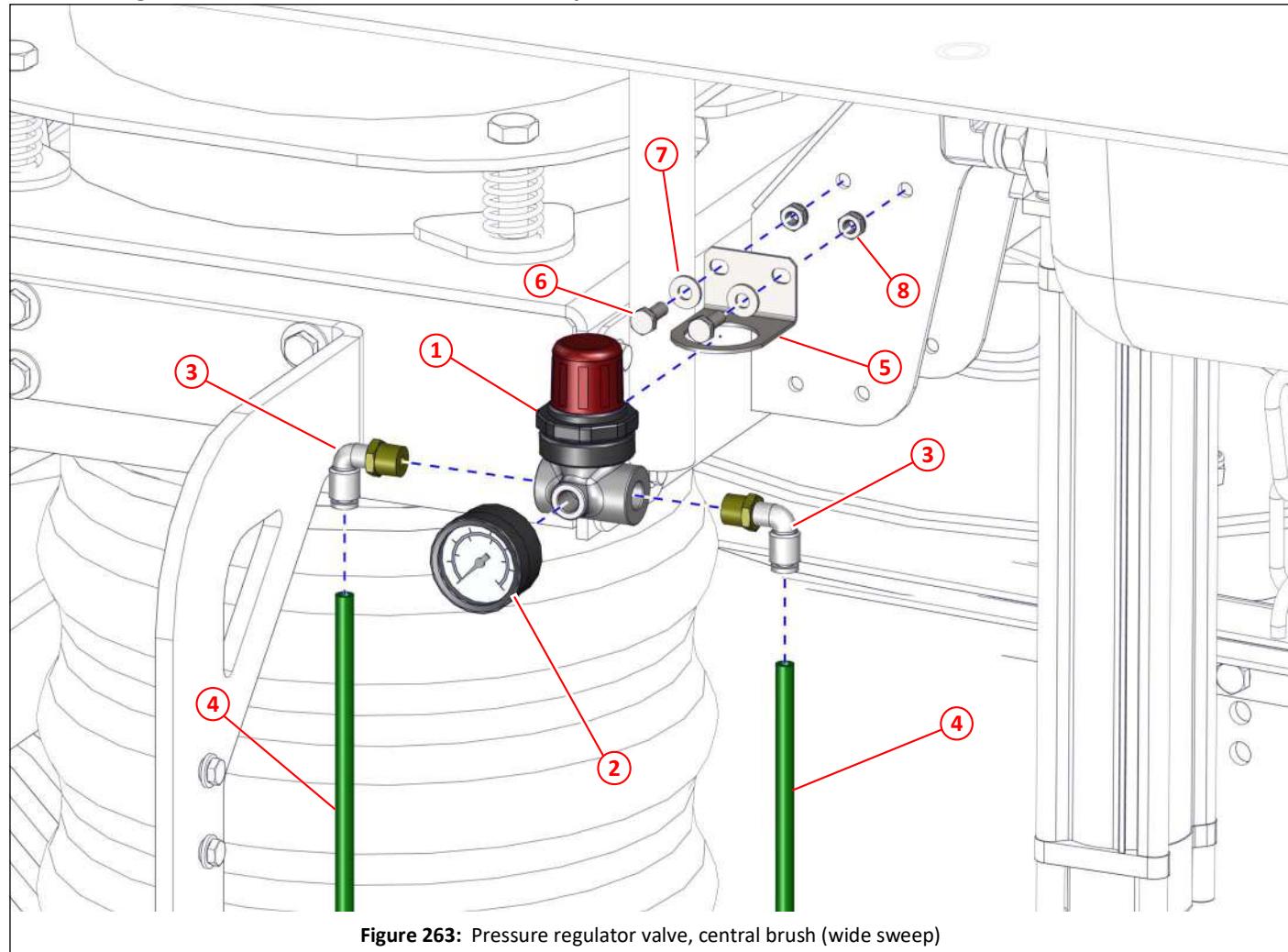


Figure 262: Pneumatic regulator and filter

Item	Part No	Qty	Description	
①	032519	1	Air regulator and filter, includes item ②	342
②	023203	2	Elbow, swivel, $\frac{1}{4}$ " BSP x 6 push in	
③	014572	As req	Air pipe, black, $\varnothing 6$, main feed from chassis unit	
④	014572	As req	Air pipe, black, $\varnothing 6$, to pneumatic valve block Port 35	
⑤	011067	2	Set screw M6 x 20	
⑥	011090	2	Plain washer M6	

Pressure regulator valve, central brush (wide sweep)



Item	Part No	Qty	Description
①	023242	1	Pressure regulator, mini, 0.5 - 3.5 bar
②	023246		Gauge, pressure 0 - 10 bar
③	023203	2	Elbow, swivel, $\frac{1}{4}$ " BSP x 6 push in
④	024650	As req	Air pipe, green, ø6
⑤	023245	1	Bracket, mini pressure regulator
⑥	011001	2	Set screw M6 x 16
⑦	011090	2	Plain washer M6
⑧	011071	2	Nyloc nut M6

Pressure regulator valve side brush and switches for brush pressure (cab mounted)

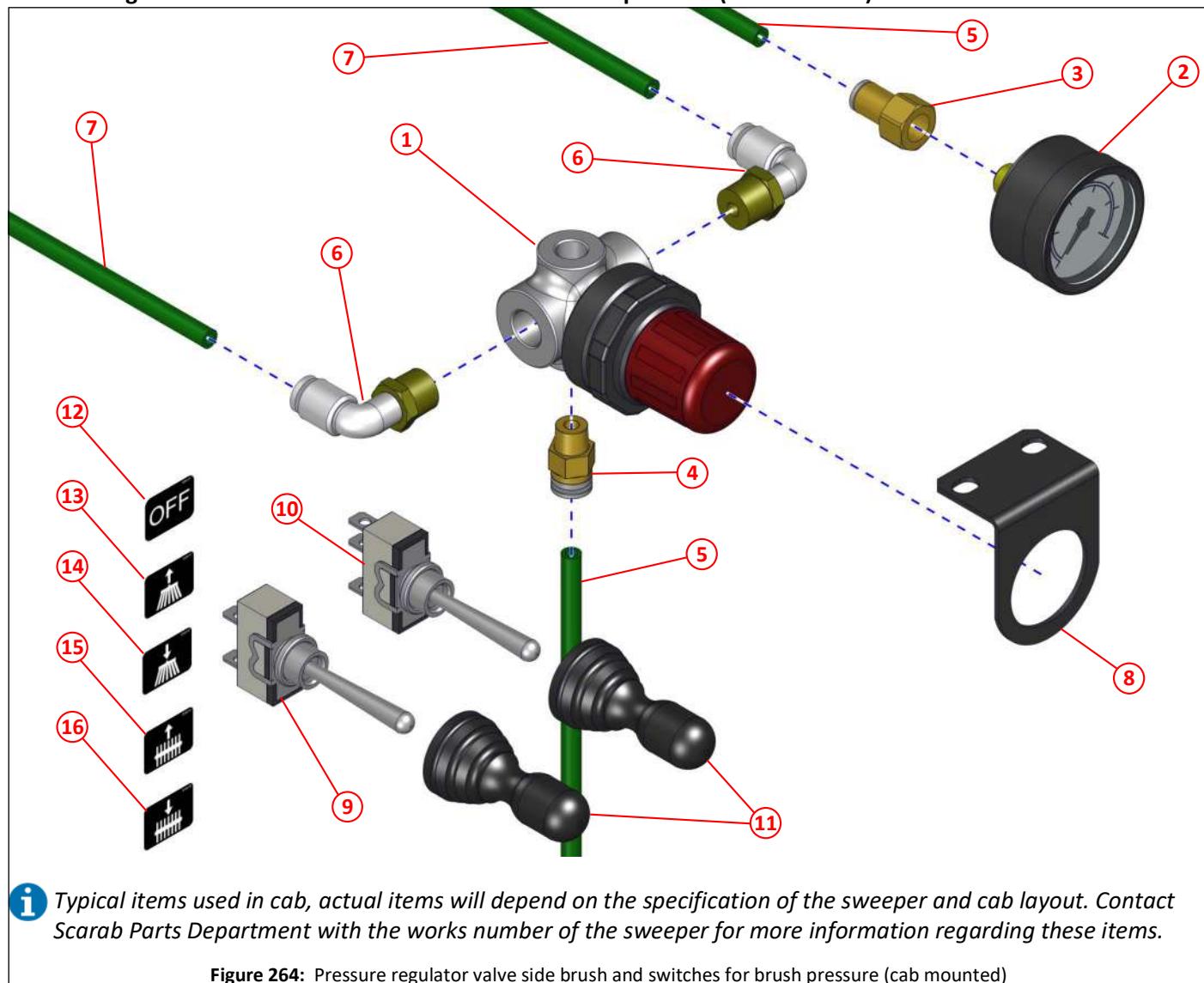
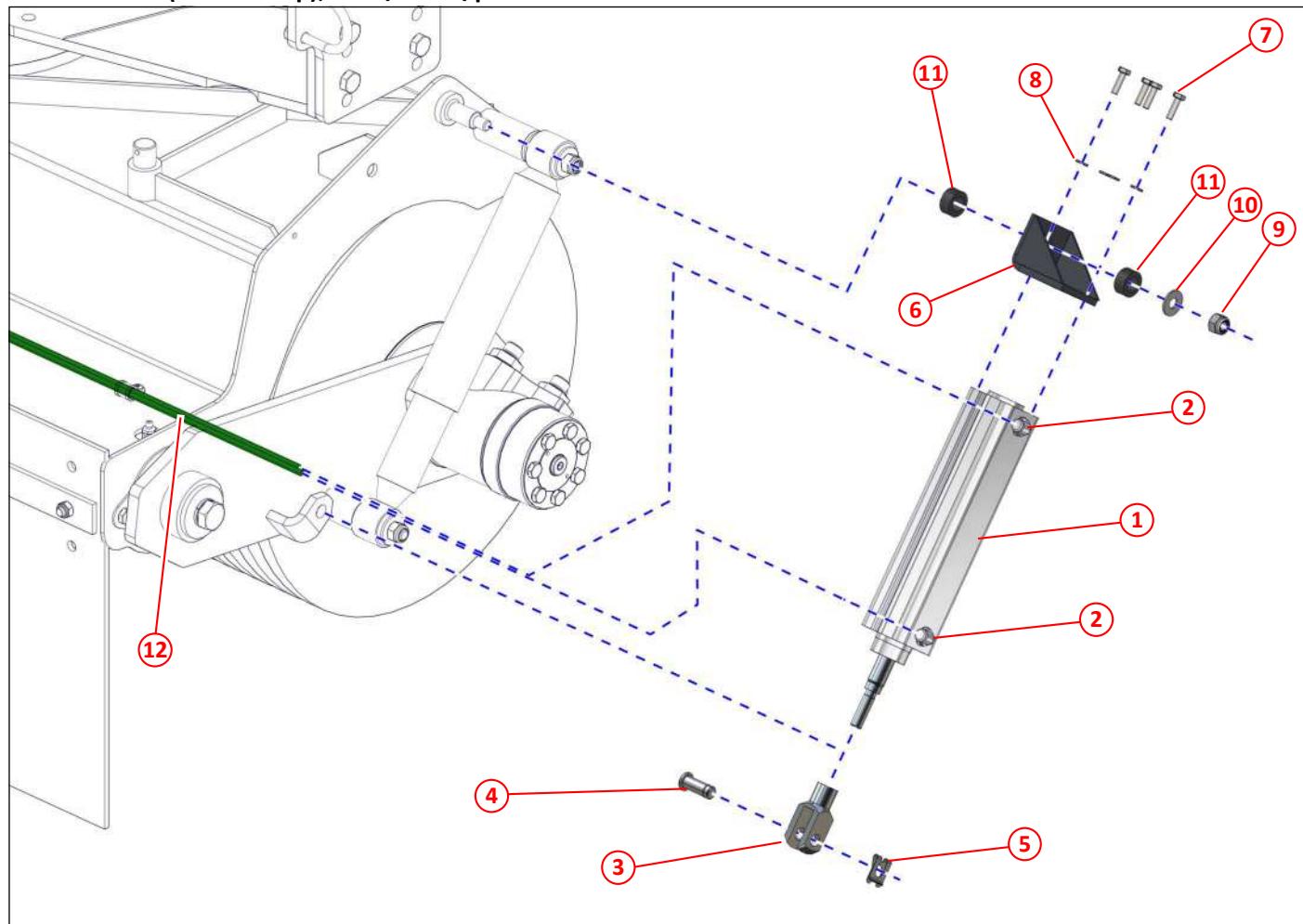


Figure 264: Pressure regulator valve side brush and switches for brush pressure (cab mounted)

Item	Part No	Qty	Description
①	023242	1	Pressure regulator, mini, 0.5 - 3.5 bar
②	023246	1	Gauge, pressure 0 - 10 bar
③	024652	1	Union, female, $\frac{1}{8}$ " BSP x 6 push in
④	024643	1	Connector, straight, $\frac{1}{8}$ " BSP x 6 push in
⑤	024650	As req	Air pipe, green, Ø6, connects items ③ and ④
⑥	023203	2	Elbow, swivel, $\frac{1}{4}$ " BSP x 6 push in
⑦	024650	As req	Air pipe, green, Ø6
⑧	023245	1	Bracket, mini pressure regulator
⑨	037248	As req	Switch, toggle, ON/OFF/ON
⑩	037249	As req	Switch, toggle, ON/OFF
⑪	037247	As req	Rubber boot, toggle switch
⑫	038121	As req	Pressure OFF, label
⑬	038117	As req	Side brush pressure up, label
⑭	038118	As req	Side brush pressure down, label
⑮	038119	As req	Central brush (wide sweep) pressure up, label
⑯	038120	As req	Central brush (wide sweep) pressure down, label

Central brush (wide sweep), raise/lower/pressure



i Left hand side shown, right hand side the same but only has one item ⓘ

Figure 265: Central brush (wide sweep), raise/lower/pressure

Item	Part No	Qty	Description
①	020602	1	Pneumatic cylinder 40 x 125
②	024646	2	Elbow, M/F, $\frac{1}{4}$ " BSP x ø6 push in
③	014469	1	Clevis M12
④	023270	1	Clevis pin ø12
⑤	023269	1	Safety fastener ø12
⑥	030532	1	Mounting bracket, pneumatic cylinder, central brush (wide sweep) raise/lower
⑦	011067	4	Set screw M6 x 20
⑧	011091	4	Spring washer M6
⑨	011075	1	Nyloc nut M10
⑩	011094	1	Plain washer M10
⑪	011000	2	Rubber bush, (hose $\frac{5}{8}$ ")
⑫	024650	As req	Air pipe, green, ø6

Central brush (wide sweep), slewing

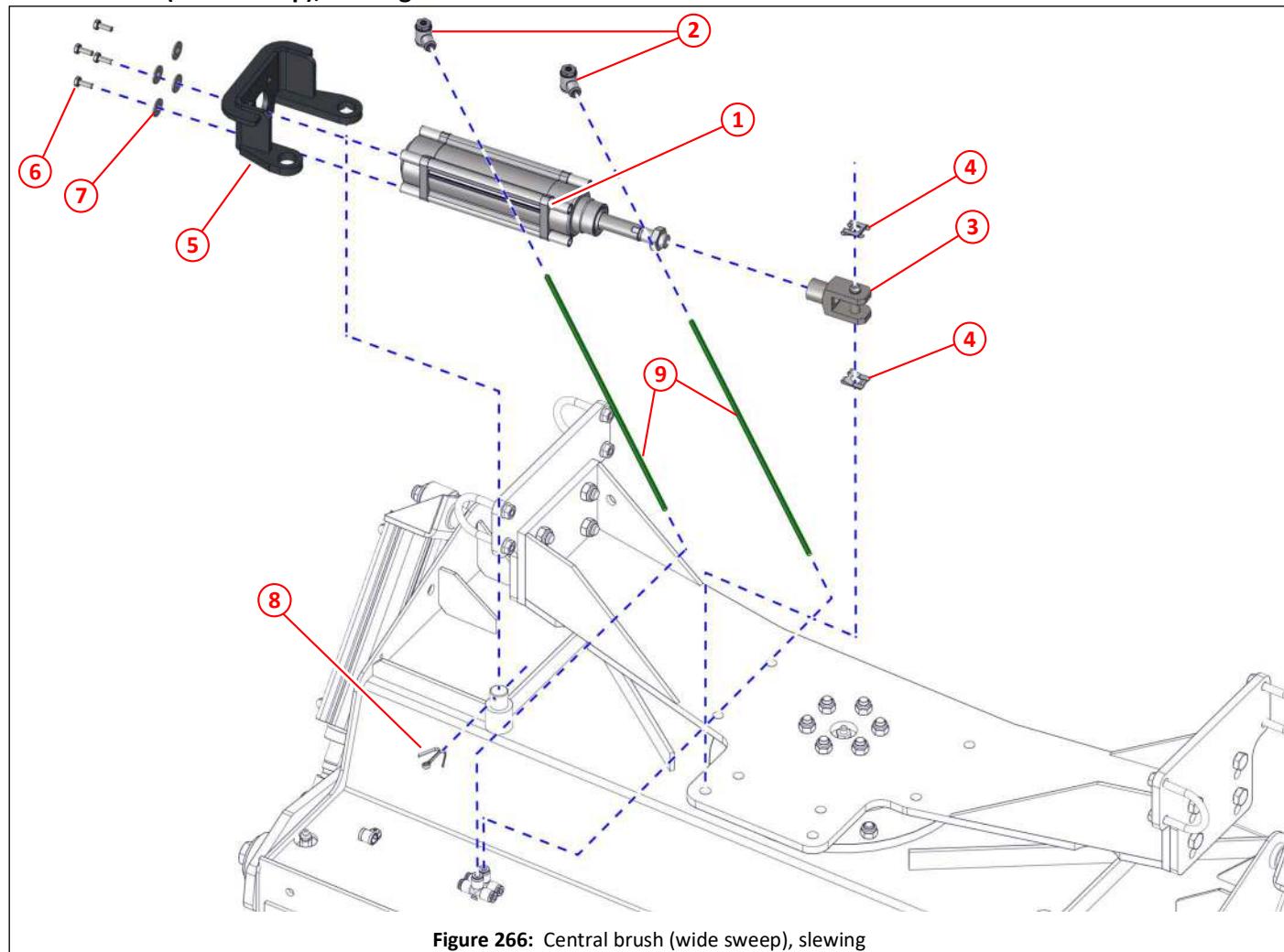
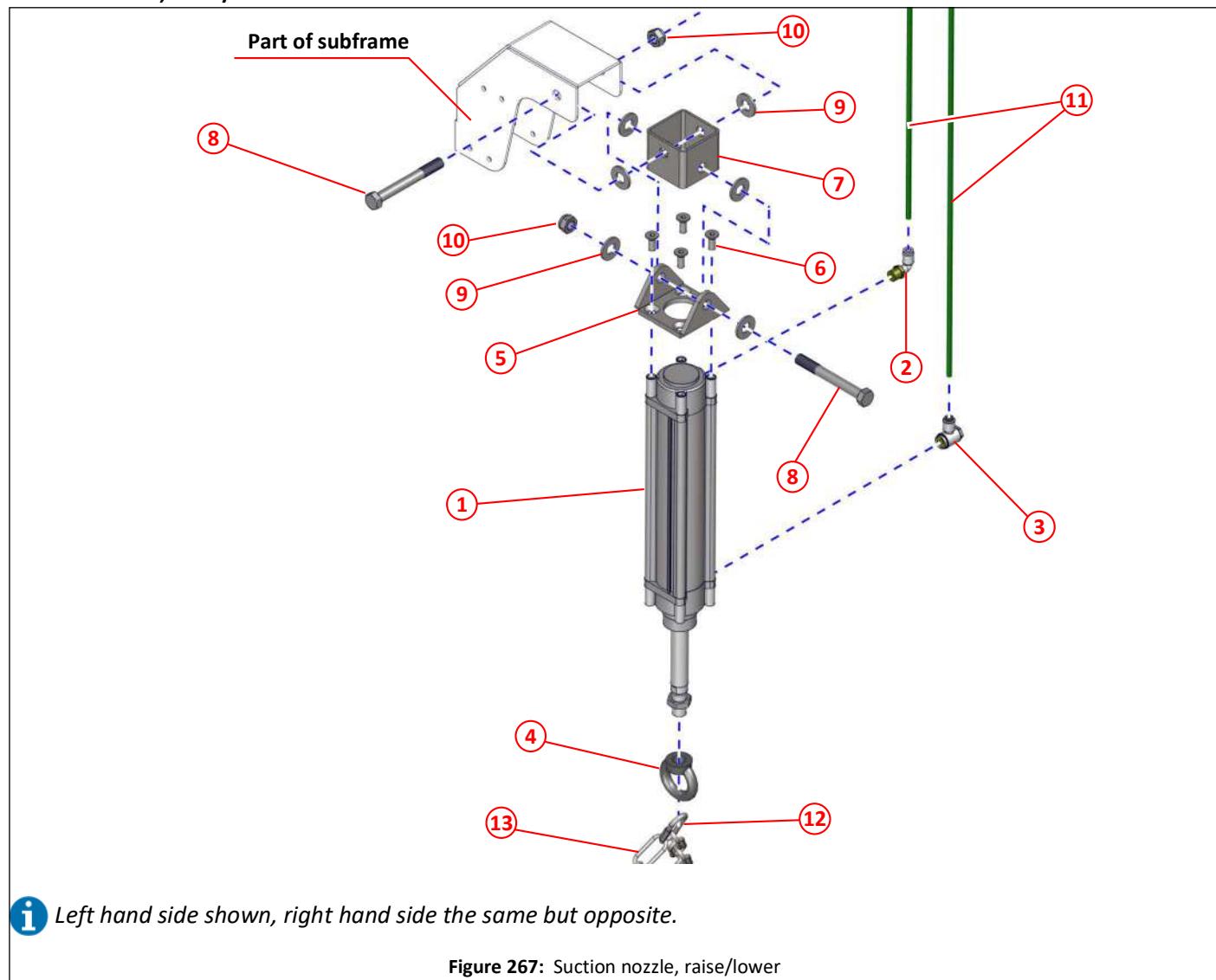


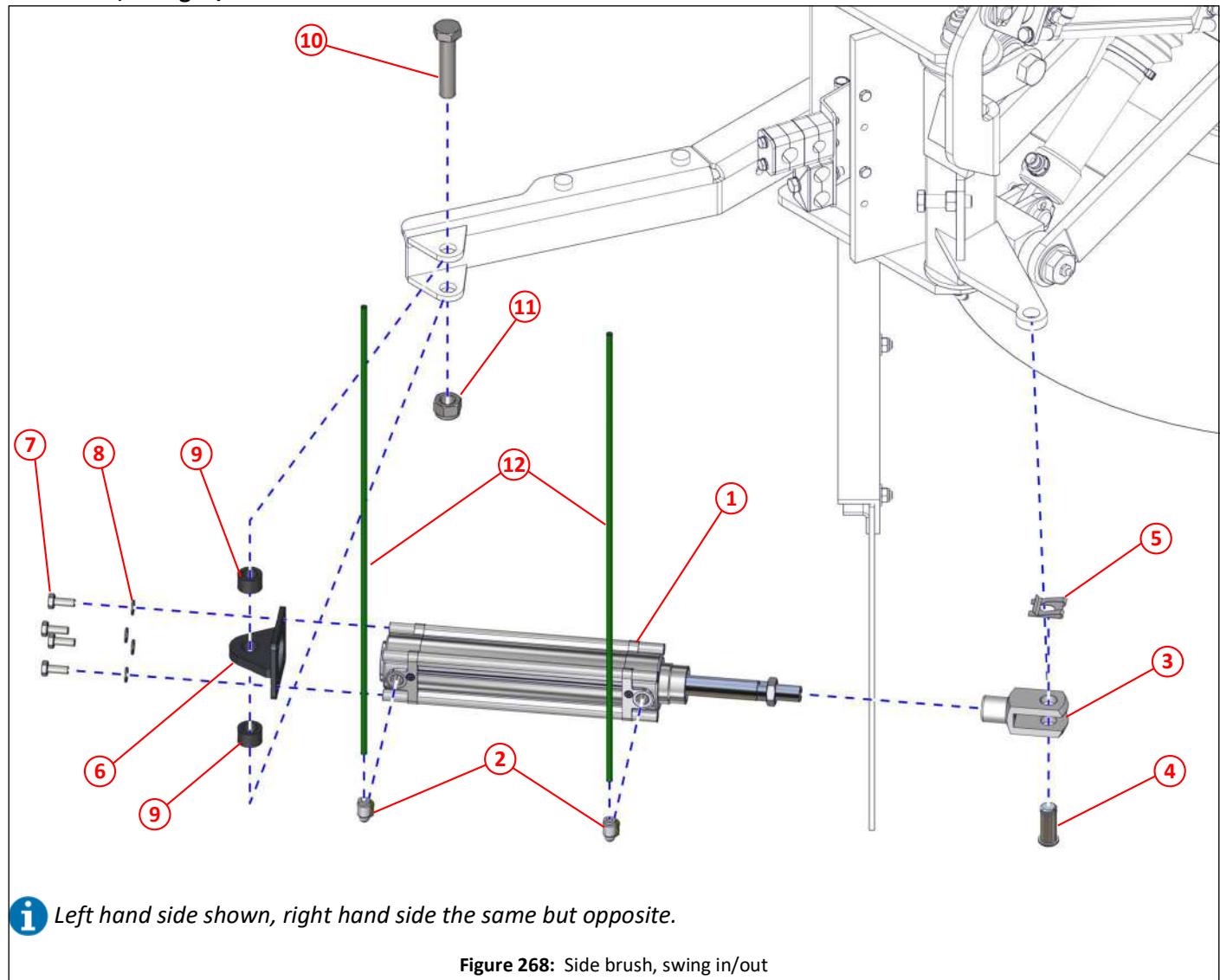
Figure 266: Central brush (wide sweep), slewing

Item	Part No	Qty	Description	
①	020767	1	Pneumatic cylinder 50 x 100	49
②	021158	2	Pneumatic flow regulator	
③	036621	1	Clevis, special	
④	023269	2	Safety fastener ø12	
⑤	036620	1	Mounting bracket, pneumatic cylinder, central brush (wide sweep) slewing	
⑥	011001	4	Set screw M6 X 16	
⑦	011092	4	Plain washer M6	
⑧	011122	1	Split pin $\frac{3}{16}'' \times 1\frac{1}{2}''$	
⑨	024650	As req	Air pipe, green, ø6	

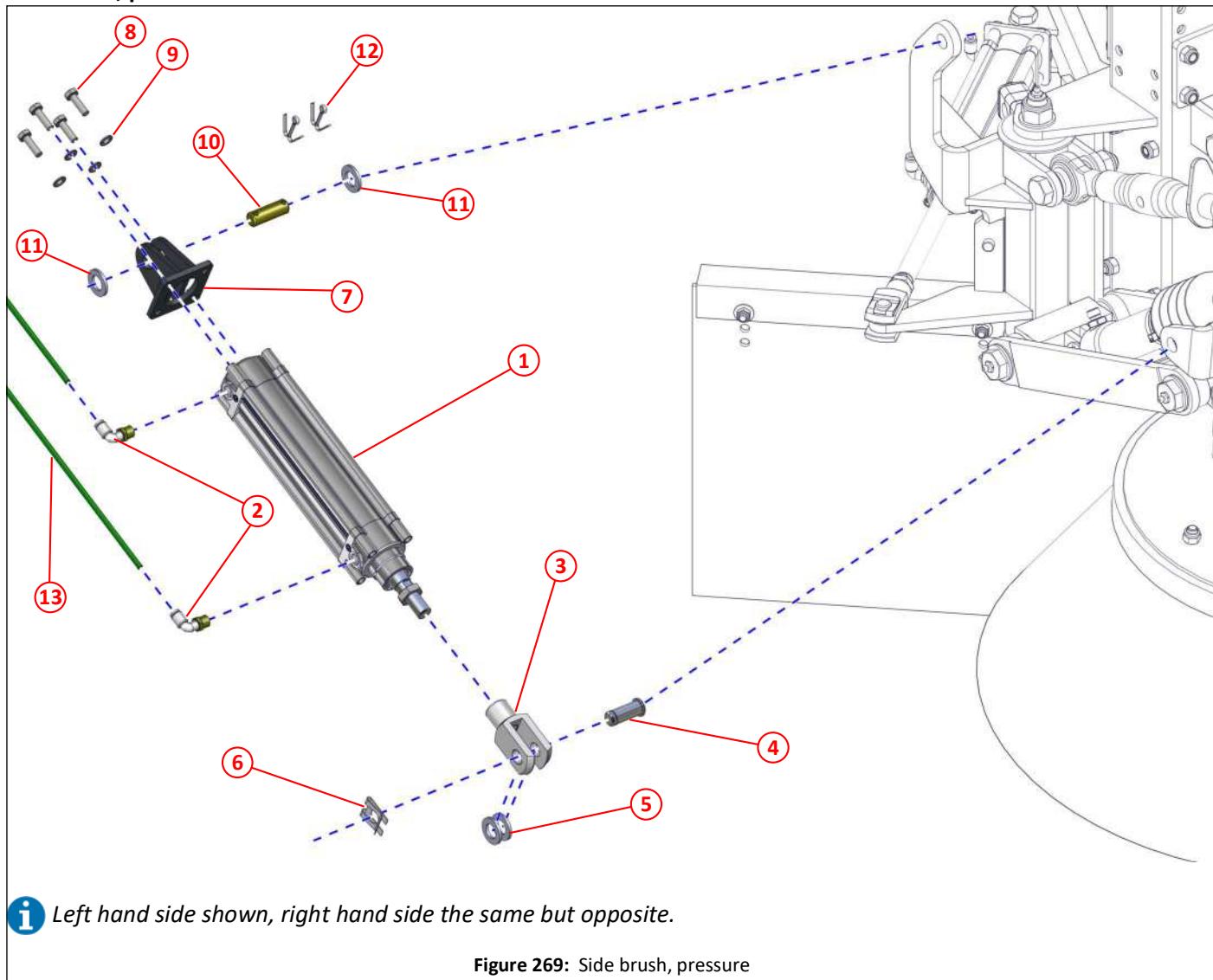
Suction nozzle, raise/lower


Item	Part No	Qty	Description
①	030772	1	Pneumatic cylinder 50 x 200
②	024646	1	Elbow, M/F, $\frac{1}{4}$ " BSP x ø6 push in
③	021158	2	Pneumatic flow regulator
④	032293	1	Ring nut, M16 x 1.5
⑤	030777	1	Pivot, pneumatic cylinder, suction nozzle raise/lower
⑥	000003	4	Screw, countersunk, socket M8 x 20
⑦	030776	1	Pivot block
⑧	011057	2	Bolt M12 x 100
⑨	011096	6	Plain washer M12
⑩	011077	2	Nyloc nut M12
⑪	024650	As req	Air pipe, green, ø6
⑫	010606	1	Carabiner
⑬	010525	As req	Chain, large link

Side brush, swing in/out

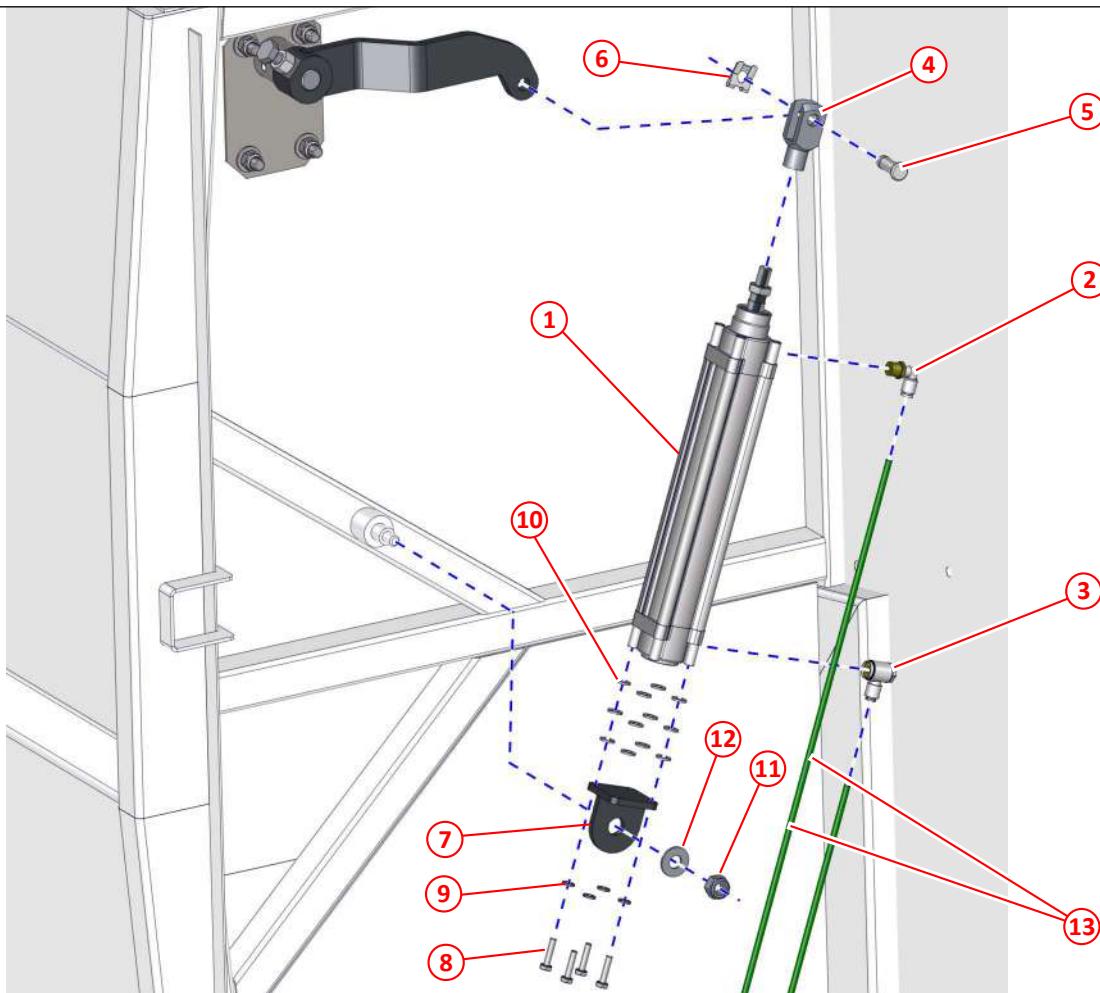


Item	Part No	Qty	Description	
①	020298	1	Pneumatic cylinder 50 x 160	29,38
②	024646	2	Elbow, M/F, $\frac{1}{4}$ " BSP x ø6 push in	
③	020299	1	Clevis M16 x 1.5	
④	022673	1	Clevis pin	
⑤	022674	1	Safety fastener ø16	
⑥	020534	1	Mounting bracket, pivot, pneumatic cylinder, side brush swing in/out	
⑦	011010	4	Set screw M8 x 20	
⑧	011093	4	Spring Washer M8	
⑨	011000	2	Rubber bush, (hose $\frac{5}{8}$ ")	
⑩	011260	1	Bolt M16 x 70	
⑪	011060	1	Nyloc nut M16	
⑫	024650	As req	Air pipe, green, ø6	

Side brush, pressure

Figure 269: Side brush, pressure

Item	Part No	Qty	Description
①	020298	1	Pneumatic cylinder 50 x 160
②	024646	2	Elbow, M/F, $\frac{1}{4}$ " BSP x ø6 push in
③	020299	1	Clevis M16 x 1.5
④	022673	1	Clevis pin
⑤	011135	2	Plain washer M16
⑥	022674	1	Safety fastener ø16
⑦	023122	1	Mounting bracket, pivot, pneumatic cylinder, side brush pressure
⑧	011011	4	Set screw M8 x 25
⑨	011093	4	Spring Washer M8
⑩	023123	1	Pin ø16 x 46
⑪	011135	2	Plain washer M16
⑫	011122	2	Split pin $\frac{3}{16}$ " x $1\frac{1}{2}$ "
⑬	024650	As req	Air pipe, green, ø6

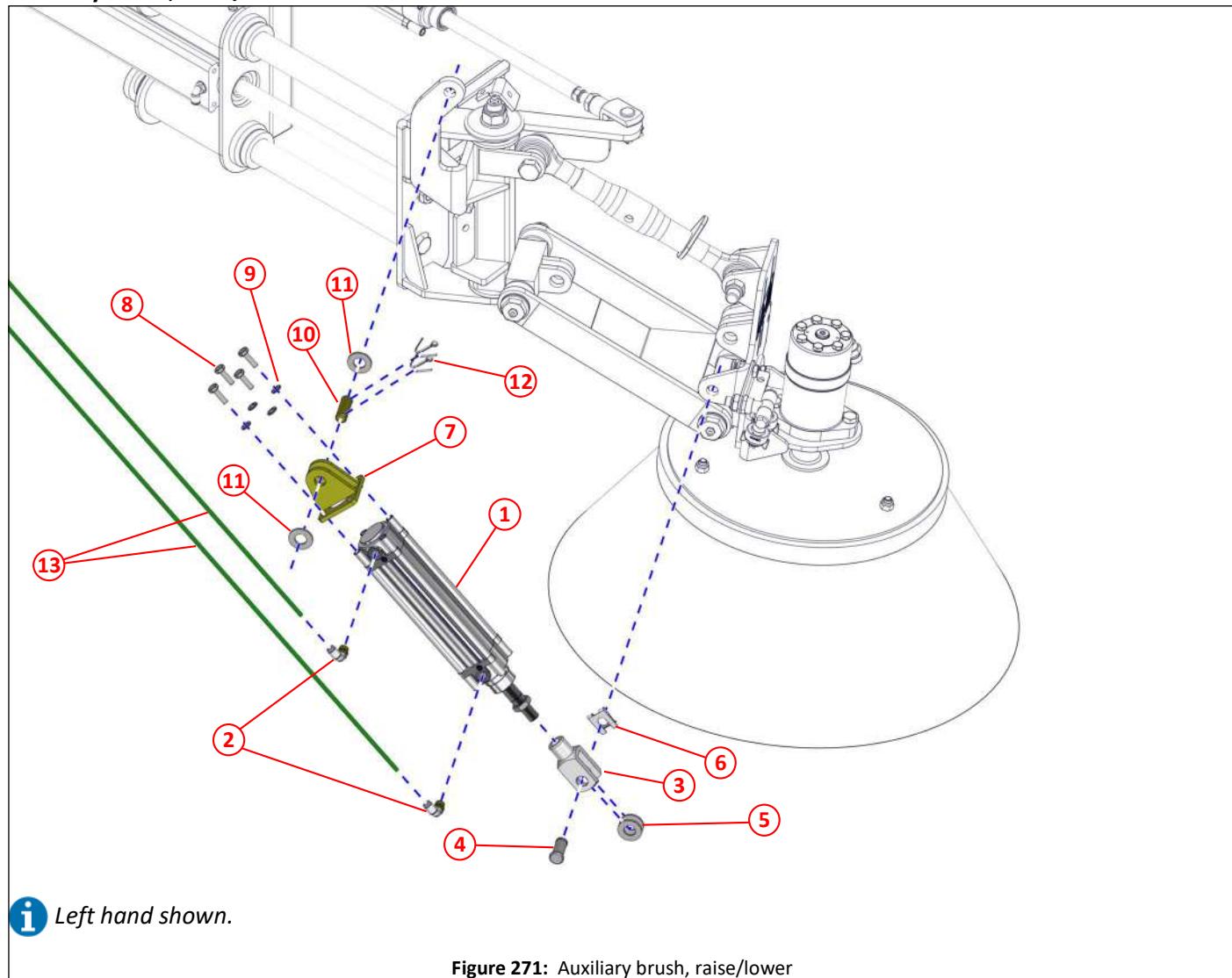
Auto blanking



i Right hand side shown, left hand side the same but opposite.

Figure 270: Auto blanking, right hand side

Item	Part No	Qty	Description
①	021467		Pneumatic cylinder 40 x 200
②	024646	1	Elbow, M/F, $\frac{1}{4}$ " BSP x ø6 push in
③	021158	2	Pneumatic flow regulator
④	014469	1	Clevis M12
⑤	023270	1	Clevis pin ø12
⑥	023269	1	Safety fastener ø12
⑦	014457	1	Mounting bracket, pneumatic cylinder, auto blanking
⑧	011087	4	Set screw M6 x 25
⑨	011091	4	Spring washer M6
⑩	011090	12	Plain washer M6
⑪	000275	1	Nyloc nut M12, stainless steel
⑫	000277	1	Plain washer M12, stainless steel
⑬	024650	As req	Air pipe, green, ø6

Auxiliary brush, raise/lower

Figure 271: Auxiliary brush, raise/lower

Item	Part No	Qty	Description
①	020298	1	Pneumatic cylinder 50 x 160
②	024646	2	Elbow, M/F, $\frac{1}{4}$ " BSP x ø6 push in
③	020299	1	Clevis M16 x 1.5
④	022673	1	Clevis pin
⑤	011135	2	Plain washer M16
⑥	022674	1	Safety fastener ø16
⑦	023122	1	Mounting bracket, pneumatic cylinder, auxiliary brush raise/lower
⑧	011011	4	Set screw M8 x 25
⑨	011093	4	Spring washer M8
⑩	023123	1	Pin ø16 x 46
⑪	011135	2	Plain washer M16
⑫	011122	2	Split pin $\frac{3}{16}$ " x $1\frac{1}{2}$ "
⑬	024650	As req	Air pipe, green, ø6

Auxiliary brush, left hand, swing in/out

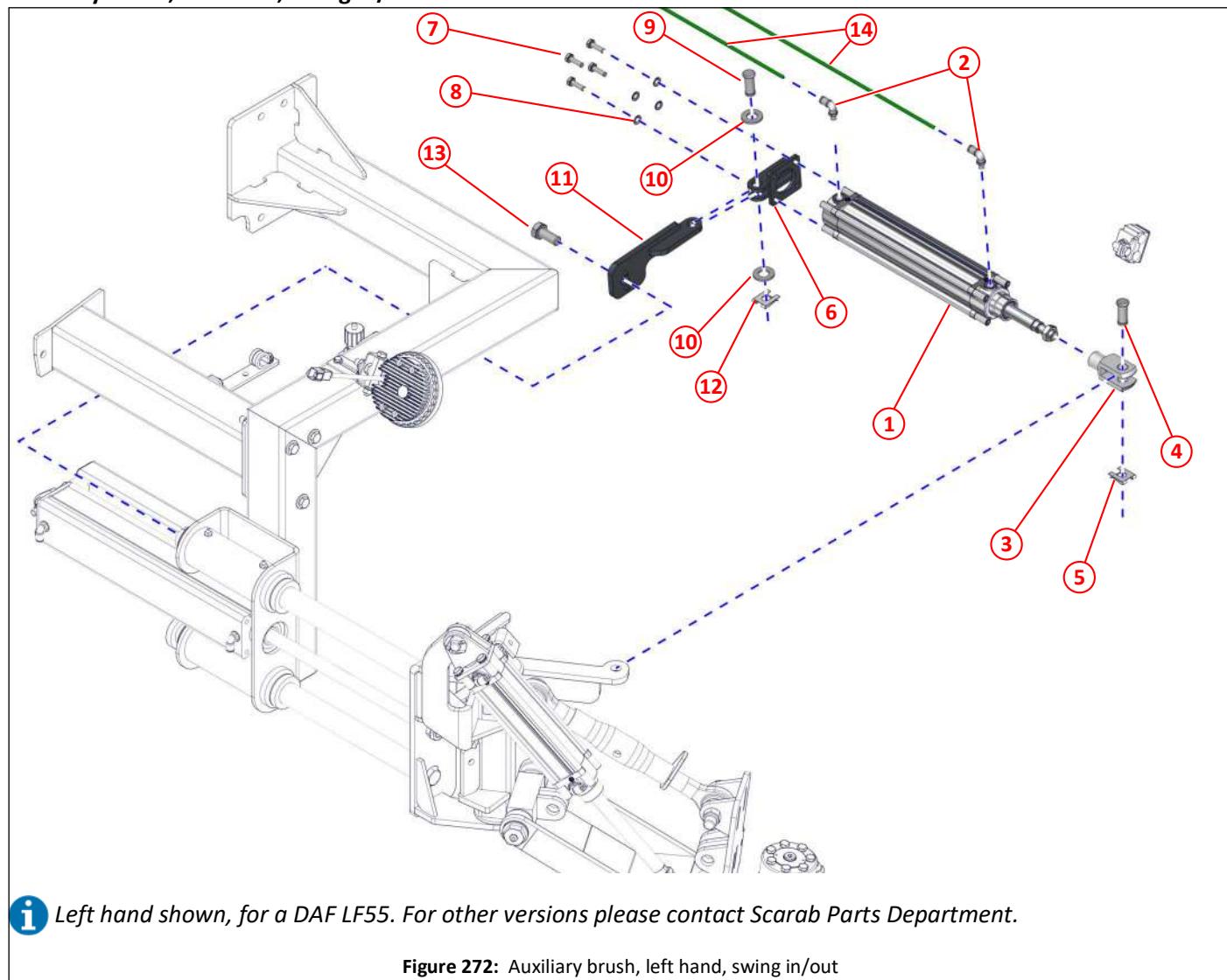


Figure 272: Auxiliary brush, left hand, swing in/out

Item	Part No	Qty	Description
①	021521	1	Pneumatic cylinder 50 x 160
②	024646	2	Elbow, M/F, $\frac{1}{4}$ " BSP x ø6 push in
③	020299	1	Clevis M16 x 1.5
④	022673	1	Clevis pin
⑤	022674	1	Safety fastener ø16
⑥	030860	1	Mounting bracket, left hand, pneumatic cylinder, auxiliary brush, swing in/out
⑦	011011	4	Set screw M8 x 25
⑧	011093	4	Spring washer M8
⑨	022673	1	Clevis pin
⑩	011135	2	Plain washer M16
⑪	022674	1	Safety fastener ø16
⑫	042207	1	Auxiliary brush push link
⑬	011141	1	Bolt M16 x 35
⑭	024650	As req	Air pipe, green, ø6

Auxiliary brush, extend/retract

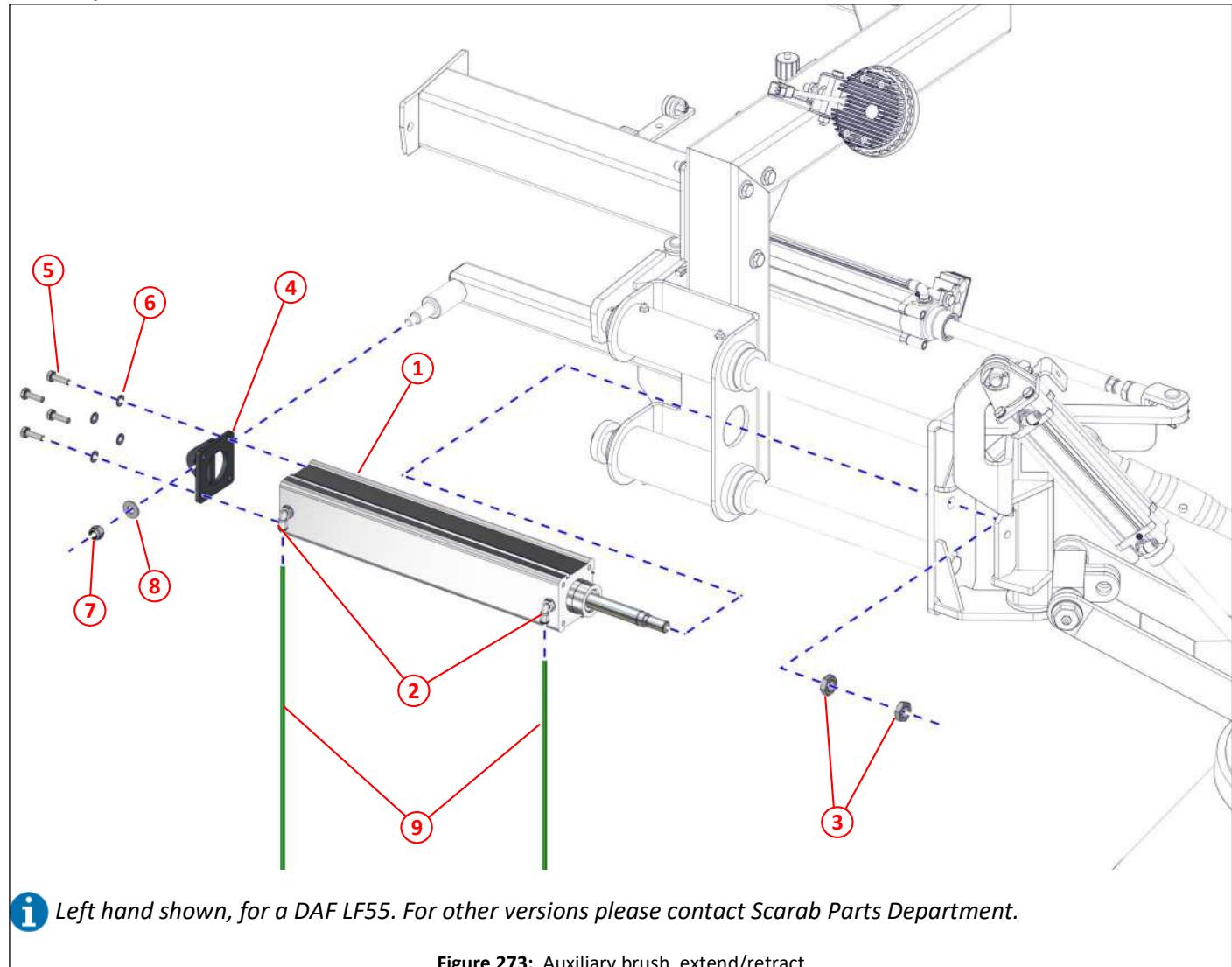
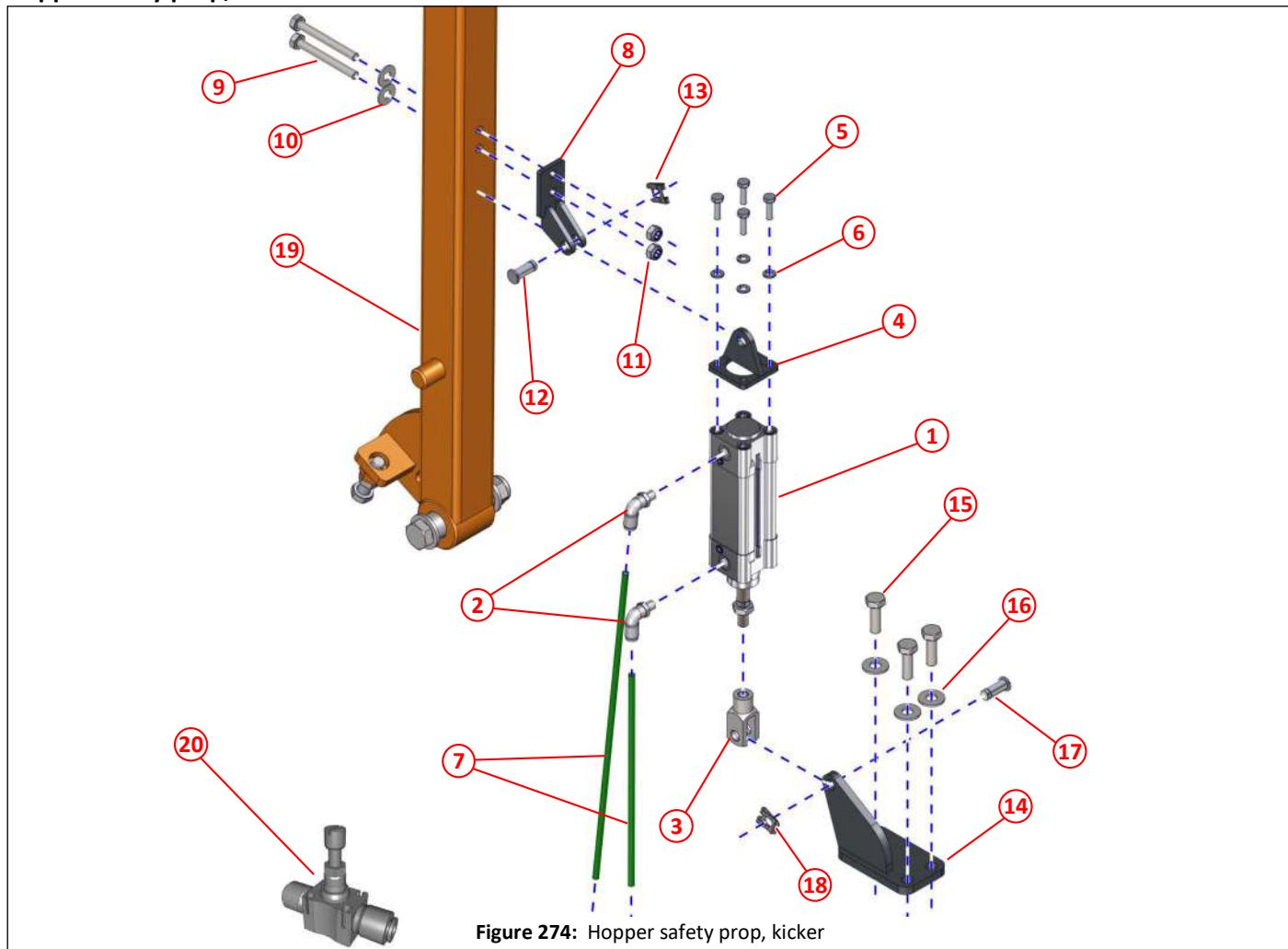


Figure 273: Auxiliary brush, extend/retract

Item	Part No	Qty	Description
①	026396	1	Pneumatic cylinder 63 x 320
②	024646	2	Elbow, M/F, $\frac{1}{4}$ " BSP x ø6 push in
③	000138	2	Lock nut M16 x 1.5
④	030859	1	Mounting bracket, pneumatic cylinder, auxiliary brush extend/retract
⑤	011011	4	Set screw M8 x 25
⑥	011093	4	Spring washer M8
⑦	011075	1	Nyloc nut M10
⑧	011094	1	Plain washer M10
⑨	024650	As req	Air pipe, green, ø6

Hopper safety prop, kicker



Item	Part No	Qty	Description	
①	043175	1	Pneumatic cylinder, prop kicker	365,366,368
②	024646	2	Elbow, M/F, $\frac{1}{4}$ " BSP x $\varnothing 6$ push in	
③	020291	1	Clevis, M10 x 1.25	
④	043174	1	Mount, pneumatic cylinder, prop kicker	
⑤	000252	4	Set screw M6 x 20, stainless steel	
⑥	000255	4	Spring washer M6, stainless steel	
⑦	024650	As req	Air pipe, green, $\varnothing 6$	
⑧	043390	1	Bracket, prop kicker	
⑨	011018	2	Bolt M8 x 70	
⑩	011092	2	Plain washer M8	
⑪	011073	2	Nyloc nut M8	
⑫	026163	1	Clevis pin	
⑬	026164	1	Retaining clip	
⑭	043364	1	Floor mount, prop kicker	
⑮	011032	3	Set screw M10 x 30	
⑯	011094	3	Plain washer M10	
⑰	026163	1	Clevis pin	
⑱	026164	1	Retaining clip	
⑲	043391	1	Hopper safety prop	365,366
⑳	006062	2	In-line flow control valve (Mounted on subframe below hopper prop)	

Electrical

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i Please be aware that the following pages have both 24v and 12v components. Please ensure you select the correct voltage part for your vehicle.

Main control panel

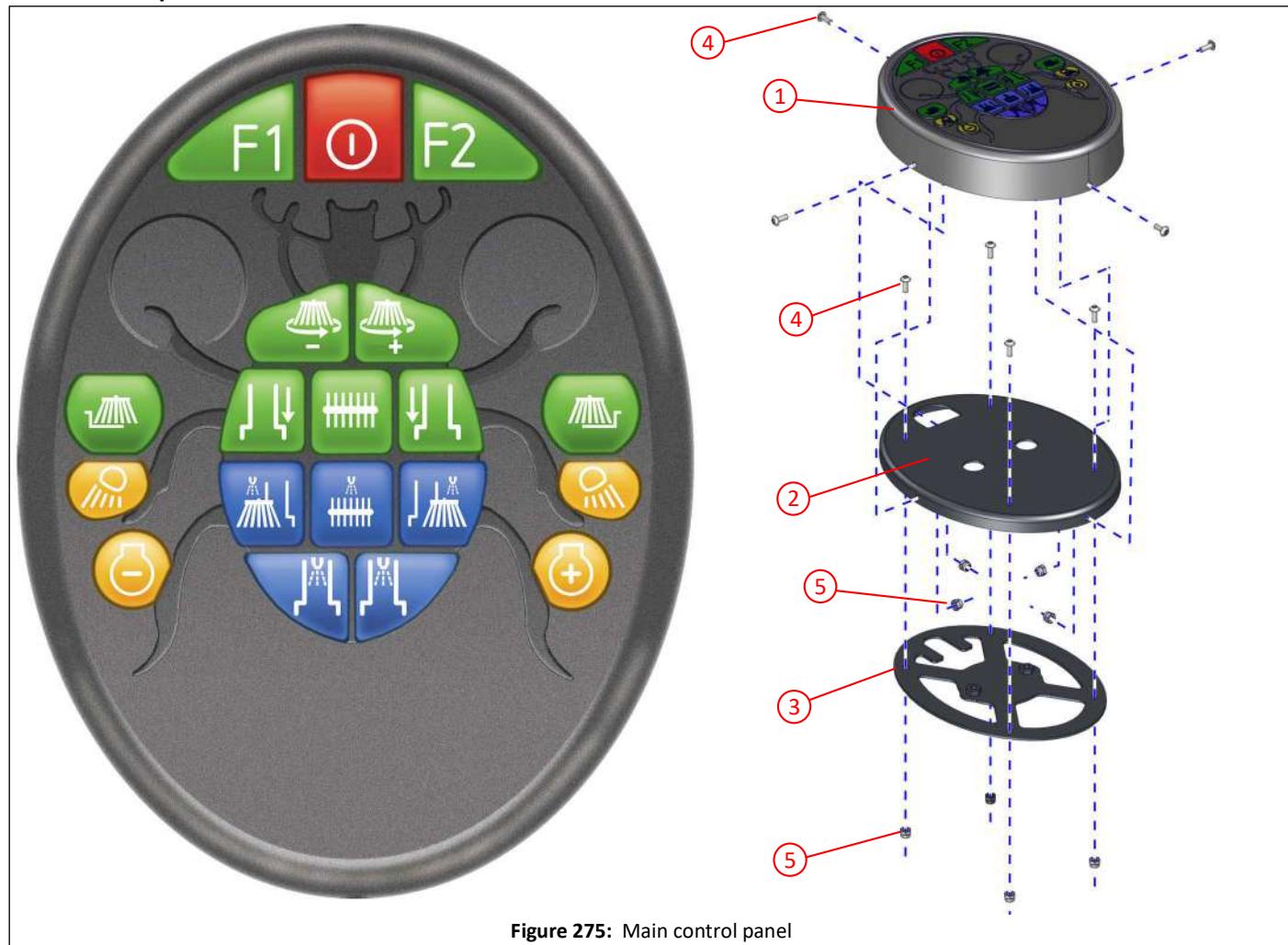


Figure 275: Main control panel

Item	Part No	Qty	Description	
①	037602	1	Main control panel, fascia and keypad	443
②	037053	1	Backplate, main control panel	
③	037055	1	Spider plate, main control panel	
④	000304	8	Socket button head M4 x 10, black	
⑤	000134	8	Nyloc nut M4	
NI	036912	1	Loom, main control panel	330
NI	036914	1	Loom, power/CAN, main control panel	330

Auxiliary control panel (door pod)



Figure 276: Auxiliary control panel

Item	Part No	Qty	Description	
①	037608	1	Auxiliary control panel (door pod), fascia and keypad	445
②	037057	1	Support plate, auxiliary control panel (door pod)	
③	037058	1	Backplate, auxiliary control panel (door pod), universal	
④	046259	1	Blind grommet	
⑤	036873	1	Ergo joystick	
⑥	000380	4	Socket button head M5 x 10, black	
⑦	037064	1	Lock washer, auxiliary control panel (door pod)	
⑧	011031	1	Set screw M10 x 25	
⑨	039545	1	Label, ergo joystick	
NI	036913	1	Loom, auxiliary control panel (door pod)	330
NI	036915	1	Loom, power/CAN, auxiliary control panel (door pod)	330

Hopper controller remote

Figure 277: Hopper controller remote

Item	Part No	Qty	Description	
①	043688	1	Hopper controller (PXL)	
②	043691	1	Holster, hopper controller (PXL)	
③	044294	1	Hopper controller complete with holster, includes items ① and ②	
NI	037047	1	Loom, hopper controller	330

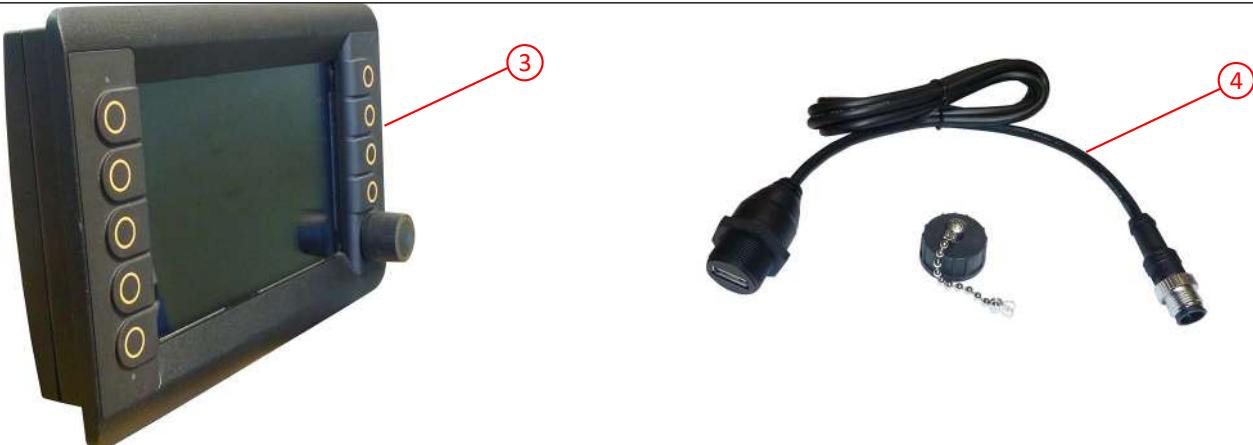
Display screen, operator, programmed

Figure 278: Display screen, operator, programmed

Item	Part No	Qty	Description	
③	051274	1	Display screen, operator, CR1084, programmed	442,443
④	039672	1	Cable, M12 to USB	330
NI	040349	1	Loom, display screen	330

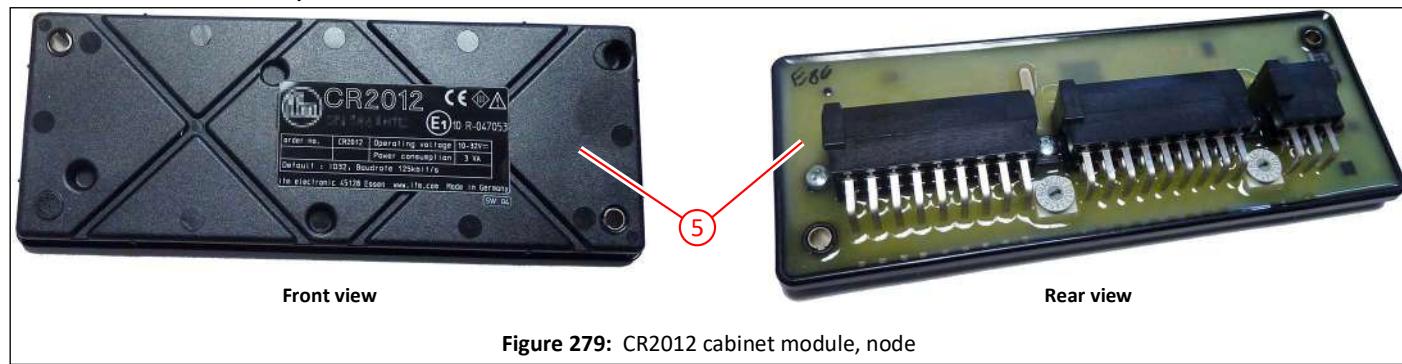
CR2012 cabinet module, node

Figure 279: CR2012 cabinet module, node

Item	Part No	Qty	Description	
⑤	036799	3	CR2012 cabinet module, node, behind dash	
NI	038013	1	Loom, cab	330,448

Beacon switch

Figure 280: Beacon switch

Item	Part No	Qty	Description	
(1)	042049 *	1	Beacon switch, DAF	330
(2)	038543 *	1	Beacon switch, Renault	330
NI	038013	1	Loom, cab	330

*. Switches for other chassis manufacturers please contact Scarab Parts Department.

Sounder, main control panel

Figure 281: Sounder, main control panel

Item	Part No	Qty	Description	
(3)	037048	1	Sounder	
NI	036912	1	Loom, main control panel	330

Camera monitor

Figure 282: Camera monitor

Item	Part No	Qty	Description	
(4)	040717	1	Camera monitor	

Camera splitter

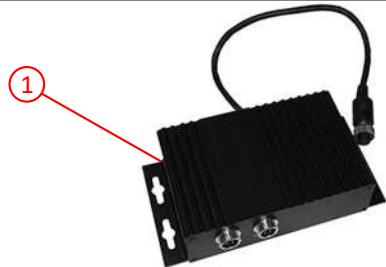


Figure 283: Camera splitter

Item	Part No	Qty	Description
③	041534	1	Camera splitter

Fuses and relays, cab

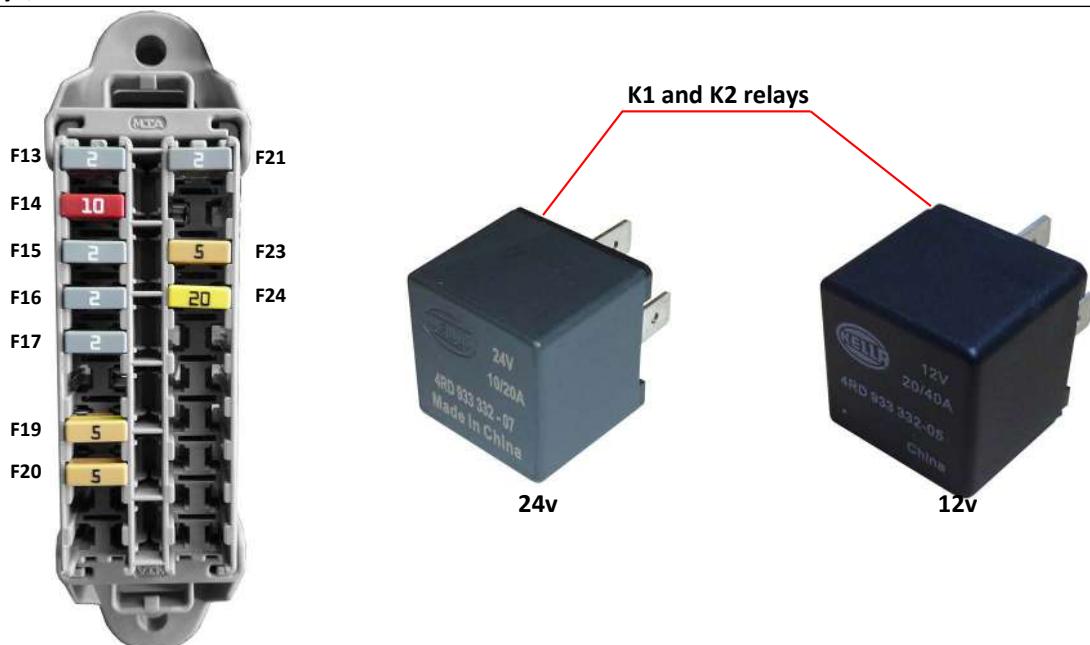
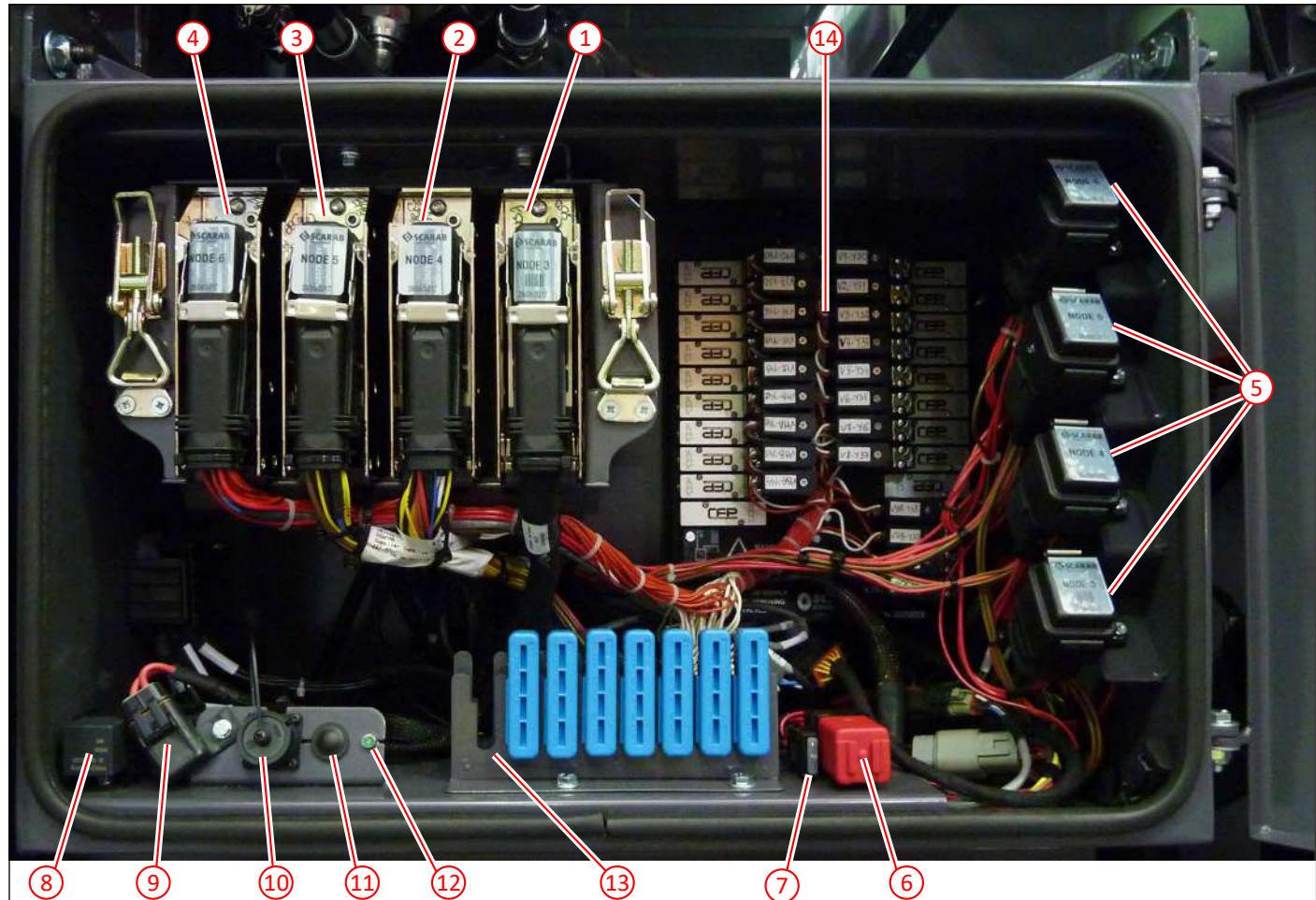


Figure 284: Fuses and relays, cab

Item	Part No	Qty	Description
F13	004495	1	Fuse, mini blade, 2 Amp, Vehicle ignition
F14	004393	1	Fuse, mini blade, 10 Amp, Scarab, Ignition+
F15	004495	1	Fuse, mini blade, 2 Amp, Node 2, LCD Monitor, Ignition+
F16	004495	1	Fuse, mini blade, 2 Amp, Node 0, Auxiliary Control Panel, Ignition+
F17	004495	1	Fuse, mini blade, 2 Amp, Node 1, Main Control Panel, Ignition+
F19	004391	1	Fuse, mini blade, 5 Amp, Body Builder Plug, Ignition+
F20	004391	1	Fuse, mini blade, 5 Amp, Hopper Remote Control Unit, Ignition+
F21	004495	1	Fuse, mini blade, 2 Amp, Node 2, LCD Monitor, Battery+
F23	004391	1	Fuse, mini blade, 5 Amp, Body Builder Plug, Battery+
F24	004395	1	Fuse, mini blade, 20 Amp, Beacon(s)
K1	014718	1	Relay, 10/20 Amp, Beacon(s), 24v
K1	011768	1	Relay, 10/20 Amp, Beacon(s), 12v
K2	014718	1	Relay, 10/20 Amp, Ignition, 24v
K2	011768	1	Relay, 10/20 Amp, Ignition, 12v

i The above items are located on the cab loom and will be behind the dash on the vehicle.

Node cabinet

Figure 285: Node cabinet

Item	Part No	Qty	Description	
①	042342	1	Node 3, CR0505, programmed	324
②	042336	1	Node 4, CR0020, programmed	324
③	042336	1	Node 5, CR0020, programmed	324
④	042336	1	Node 6, CR0020, programmed	324
⑤			Fuse box, Node 3, Node 4, Node 5 and Node 6, part of the node looms	326,330
⑥	043720	1	Timer relay, engine work light, K7, holder part of engine work light loom, 24v	324,331
⑦	045511	1	Timer relay, engine work light, K7, holder part of engine work light loom, 12v	324,331
⑧	004485	1	Fuse, blade, 2 Amp, engine work light, F33, holder part of engine work light loom	331
⑨	014718	1	Relay, fuel pump, K6, holder part of engine loom, 24v	324,330,331
⑩	011768	1	Relay, fuel pump, K6, holder part of engine loom, 12v	324,330,331
⑪	014292	1	Fuse, blade, 30 Amp, engine ECU, F29, holder part of engine loom	331
⑫			Engine diagnostic plug, part of Node 3 loom	330
⑬			Engine diagnostic switch, part of Node 3 loom	330
⑭	004564		Engine diagnostic lamp, 24v	
⑮	004565		Engine diagnostic lamp, 12v	
⑯	037994	1	Splice saver rack	
⑰			Pneumatics board	292,294
NI	036844	2	Power connection link, behind fuse boxes and behind fuel pump relay	324
NI	036843	1	Power post, M6, red, behind fuse boxes	325
NI	004489	1	Rubber boot, red, for power post	325
NI	038223	1	Switch, gantry work light, green, on side of node cabinet, behind fuse boxes	325

Nodes

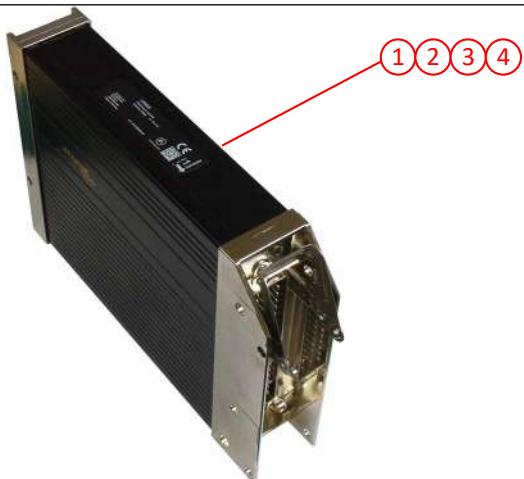


Figure 286: Nodes

Item	Part No	Qty	Description	
①	042342	1	Node 3, CR0505, programmed	323
②	042336	1	Node 4, CR0020, programmed	323
③	042336	1	Node 5, CR0020, programmed	323
④	042336	1	Node 6, CR0020, programmed	323

Relays

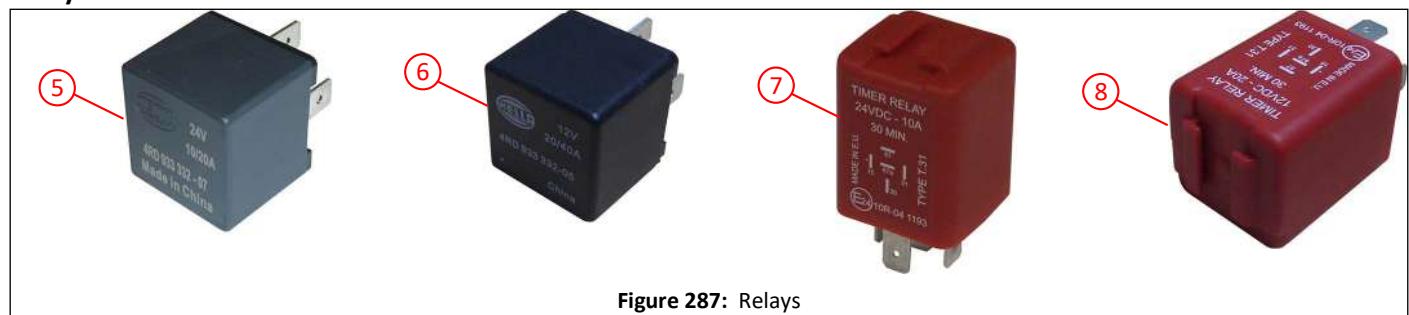


Figure 287: Relays

Item	Part No	Qty	Description	
⑤	014718	1	Relay, fuel pump, K6, 24v	323,331
⑥	011768	1	Relay, fuel pump, K6, 12v	323,331
⑦	043720	1	Timer relay, gantry work light, K7, 24v	323,331
⑧	044511	1	Timer relay, gantry work light, K7, 12v	323,331

Power connection link



Figure 288: Power connection link

Item	Part No	Qty	Description	
⑨	036844	1	Power connection link, supplied with Nyloc nuts	323

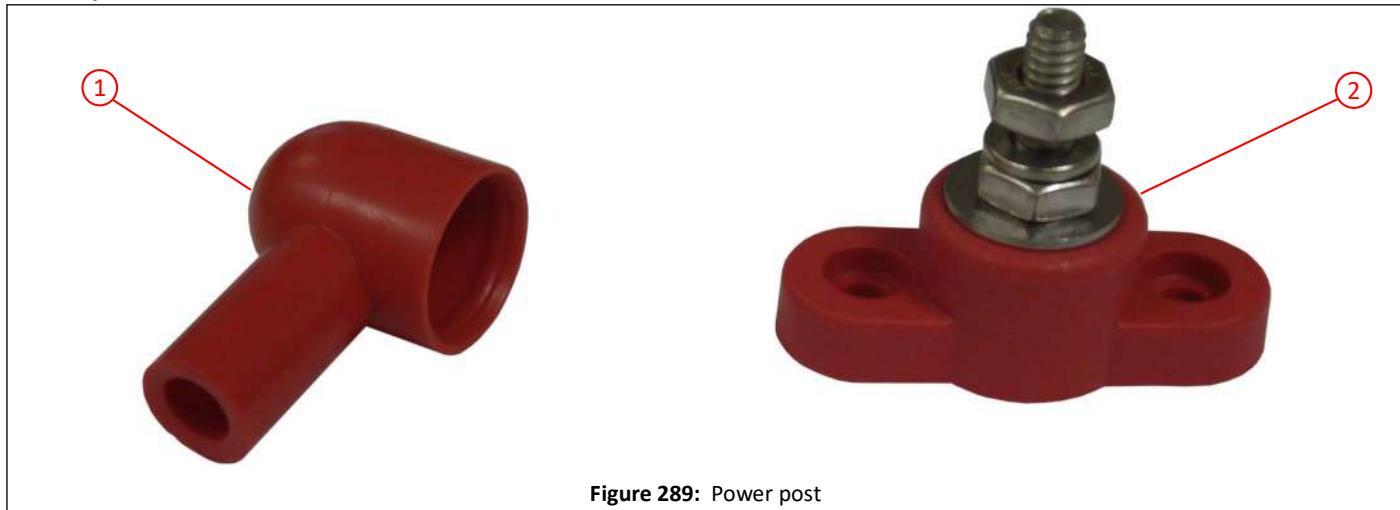
Power post


Figure 289: Power post

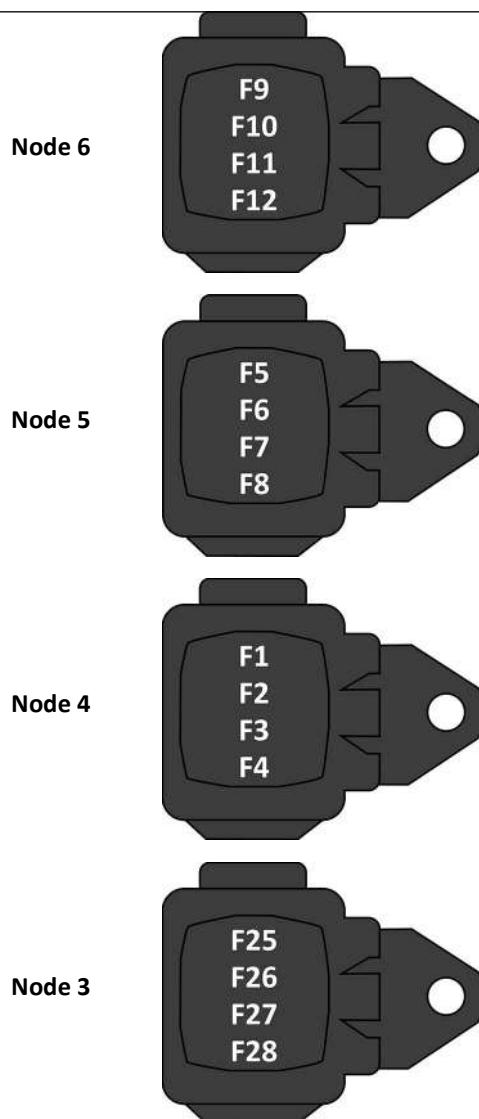
Item	Part No	Qty	Description	
①	004489	1	Rubber boot, power post, red	323
②	036843	1	Power post, red	323
NI	000429	1	Nyloc nut, $\frac{1}{4}$ " UNC, plated, to be used on power post instead of top half nut	

Switch, gantry work light


Figure 290: Switch, gantry work light

Item	Part No	Qty	Description	
③	038223	1	Switch, gantry work light, green	323
NI	043719	1	Loom, gantry work light	330

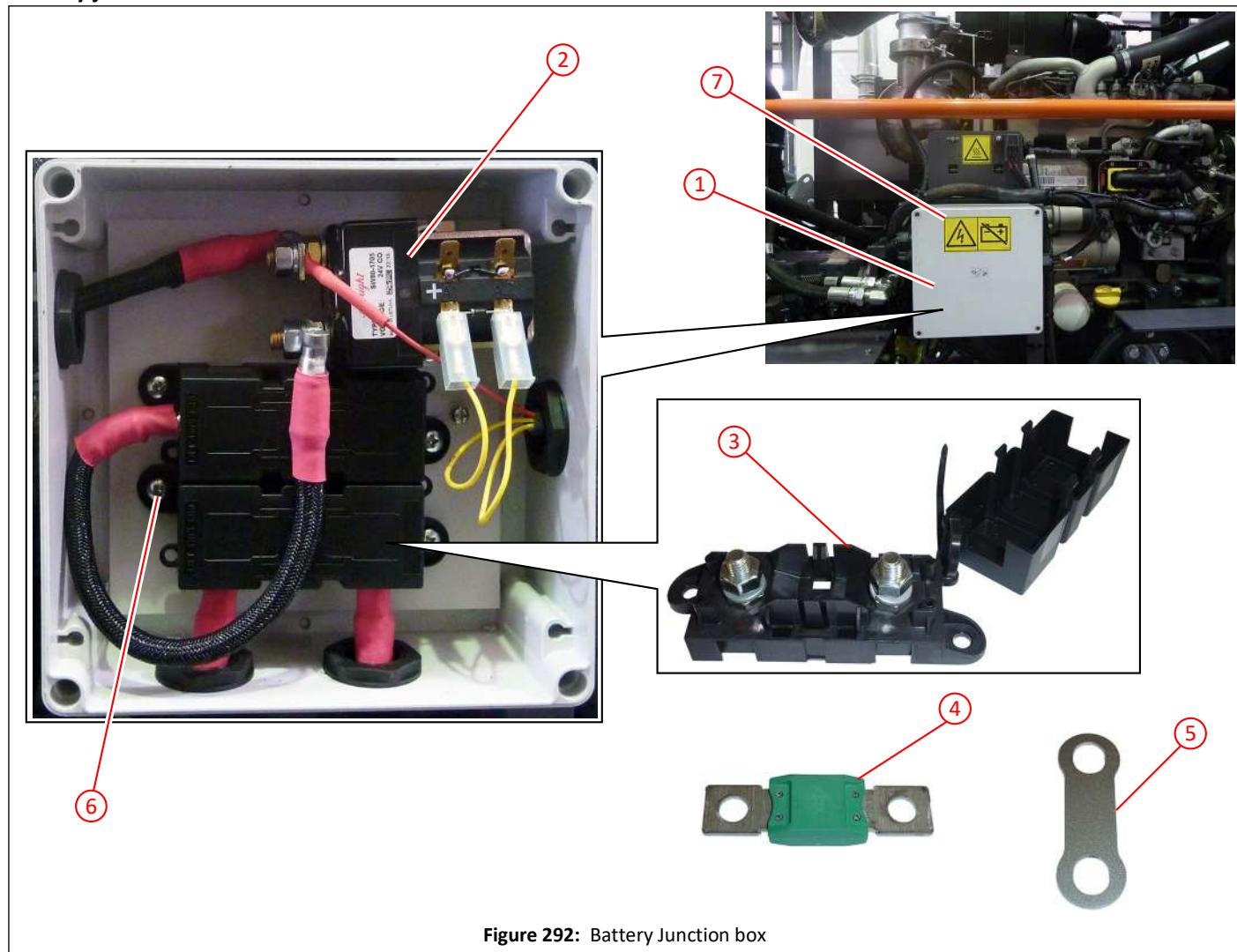
Fuses, Nodes



Note: F28 will be a different fuse depending on if 24v or 12v. 10 Amp supplied with loom by default. See below.

Figure 291: Fuses, Nodes

Item	Part No	Qty	Description	
F9	014289	1	Fuse, blade, 15 Amp, Node 6 Battery+ (Pin 34 Terminal 30)	331
F10	014289	1	Fuse, blade, 15 Amp, Node 6 Battery+ (Pin 5 Terminal 30)	331
F11			Spare	
F12	004485	1	Fuse, blade, 2 Amp, Node 6 Ignition (Terminal 15)	331
F5	014289	1	Fuse, blade, 15 Amp, Node 5 Battery+ (Pin 34 Terminal 30)	331
F6	014289	1	Fuse, blade, 15 Amp, Node 5 Battery+ (Pin 5 Terminal 30)	331
F7	014292	1	Fuse, blade, 30 Amp, Node 5 Cab Supply	331
F8	004485	1	Fuse, blade, 2 Amp, Node 5 Ignition (Terminal 15)	331
F1	014289	1	Fuse, blade, 15 Amp, Node 4 Battery+ (Pin 34 Terminal 30)	331
F2	014289	1	Fuse, blade, 15 Amp, Node 4 Battery+ (Pin 5 Terminal 30)	331
F3	014286	1	Fuse, blade, 5 Amp, Node 4 Switches	331
F4	004485	1	Fuse, blade, 2 Amp, Node 4 Ignition (Terminal 15)	331
F25	014286	1	Fuse, blade, 5 Amp, Node 3 Ignition (Terminal 15)	331
F26	014286	1	Fuse, blade, 5 Amp, Alternator	331
F27	014289	1	Fuse, blade, 15 Amp, Node 3 Battery+	331
F28	014288	1	Fuse, blade, 10 Amp, Fuel Pump, 24v	331
F28	014290	1	Fuse, blade, 20 Amp, Fuel Pump, 12v	331

Battery junction box

Figure 292: Battery Junction box

Item	Part No	Qty	Description	
①	043350	1	Battery junction box, includes the lid, lid fixings and the 4 battery cables	350
②	034207	1	Relay, glow plug heat, K5, 24v	331
②	038571	1	Relay, glow plug heat, K5, 12v	331
③	004506	2	Mega fuse holder	
④	004422	2	Mega fuse 125 Amp, F30 and F31	331
⑤	043381	1	BUS bar, mega fuse, connects the two mega fuses on the right hand side	
⑥	011115	6	Self tapping screw, No.10 x $\frac{1}{2}$ " POZI, for fitting mega fuse holder and relay	
⑦	043268	1	Label - Warning electrical	
NI	043344	1	Loom, DEUTZ engine	330

	043380	1	Junction box assembly, includes items ①-⑦, 24v
	044537	1	Junction box assembly, includes items ①-⑦, 12v

Work light



Figure 293: Work light

Item	Part No	Qty	Description	Page
①	047757	1	Work light, 12/24v	353
NI	043348	1	Loom, Node 5	353
NI	043719	1	Loom, gantry work light	353

LED marker rear light



Figure 294: LED rear marker light

Item	Part No	Qty	Description	Page
②	030773	1	LED rear marker light	
NI	036911	1	Loom, hopper	

Beacon



Figure 295: Beacon

Item	Part No	Qty	Description	Page
③	014064	1	Beacon, 24v	
③	010304	1	Beacon, 12v	
NI	036911	1	Loom, hopper	
NI	040727	1	Loom, twin beacons	

LED beacon


Figure 296: LED beacon

Item	Part No	Qty	Description	File
①	032721	1	Delta LED beacon, (SecuriLED)	
②	040608	1	LED power distribution unit magnetic	
NI	040725	1	Loom, LED (SecuriLED), long	
NI	040726	1	Loom, LED (SecuriLED), short	
NI	041172	1	Loom, LED	
NI	040722	1	Loom, Y cable, power distribution	
NI	004049	As req	Cable, 9/0.30 twin core round	
NI	004161	As req	Conduit (split), flexible, Ø15.7	

Cameras


Figure 297: Cameras

Item	Part No	Qty	Description	File
③	040354	1	Camera	
④	043897	1	Camera, eyeball	
⑤	040353	1	Power supply and cable, camera	
NI	000484	2	UM & L socket terminal caps	
NI	040355	1	Cable, camera, 15m	
NI	040719	1	Cable, camera, 5m	
NI	040718	1	Cable, camera, 2,5m	

Wiring looms and cables

Part No	Description	
036842	M12 plug/cable and valve plug type B	
036908	Loom, over head boom, water switch, includes switch	140
036911	Loom, hopper	
036912	Loom, main controller keypad	318
036913	Loom, auxiliary controller (door pod) keypad	319
036914	Loom, main controller keypad, power/CAN	318
036915	Loom auxiliary controller (door pod), power/CAN	319
037047	Loom, hopper controller, cab	
037331	Loom, brush up/down pressure	
038013	Loom, cab	
038536	Cable, positive battery cable, red, 24v	
039672	Cable, M12 to USB	
040349	Loom, display screen	
040726	Loom, LED (SecuriLED), Short	
040727	Loom, twin beacon	
041172	Loom, LED	
043344	Loom, DEUTZ engine	
043345	Loom, Node 3 - Note: Supplied with a 10 Amp fuse in F28 for 24v . A 20 Amp fuse is required if 12v .	
043346	Loom, Node 4	
043347	Loom, hydraulic block	
043348	Loom, Node 5	
043349	Loom, Node 6	
043435	Cable, battery positive starter	
043436	Cable, engine/CANbus earth, 24v	
043719	Loom, gantry work light	
040353	Power supply and cable, camera	
040355	Cable, camera, 15m	
040719	Cable, camera, 5m	
040718	Cable, camera, 2.5m	
040722	Loom, Y cable, power distribution	
044530	Cable, engine/CANbus earth, 12v	
044531	Cable, positive battery cable, red, 12v	
004049	Cable, 9/0.30 twin core round	
046708	Loom, DEUTZ power supply, 12v only	

Switches

Part No	Description	
036908	Loom, over head boom, water switch, includes switch	
038223	Switch, gantry work light, green	323,325
038543 *	Beacon switch, Renault	321
042049 *	Beacon switch, DAF	321

*. Switches for other chassis manufacturers please contact Scarab Parts Department.

Sensors

Part No	Description	
032627	Proximity sensor, hopper raise	352
041698	Low level sensor, engine coolant expansion tank	436
036781	Float switch, with amp plug, water tank	203
035466	Fuel sender unit 450mm	347
045113	Water in fuel (WIF) sensor, fuel filter, with cable	
043797	Lubrication oil pressure sensor	
043814	Coolant temperature sender	

 For location of the engine sensors see the Engine section starting at page

Fuses

Part No	Description	
004495	Fuse, mini, 2 Amp	
004569	Fuse, mini, 3 Amp	
004391	Fuse, mini, 5 Amp	
004392	Fuse, mini, 7.5 Amp	
004393	Fuse, mini, 10 Amp	
004394	Fuse, mini, 15 Amp	
004395	Fuse, mini, 20 Amp	
004396	Fuse, mini, 25 Amp	
004397	Fuse, mini, 30 Amp	
004485	Fuse, blade, 2 Amp	
014284	Fuse, blade, 3 Amp	
014285	Fuse, blade, 4 Amp	
014286	Fuse, blade, 5 Amp	
014287	Fuse, blade, 7.5 Amp	
014288	Fuse, blade, 10 Amp	
014289	Fuse, blade, 15 Amp	
014290	Fuse, blade, 20 Amp	
014291	Fuse, blade, 25 Amp	
014292	Fuse, blade, 30 Amp	
004422	Mega fuse 125 Amp	327

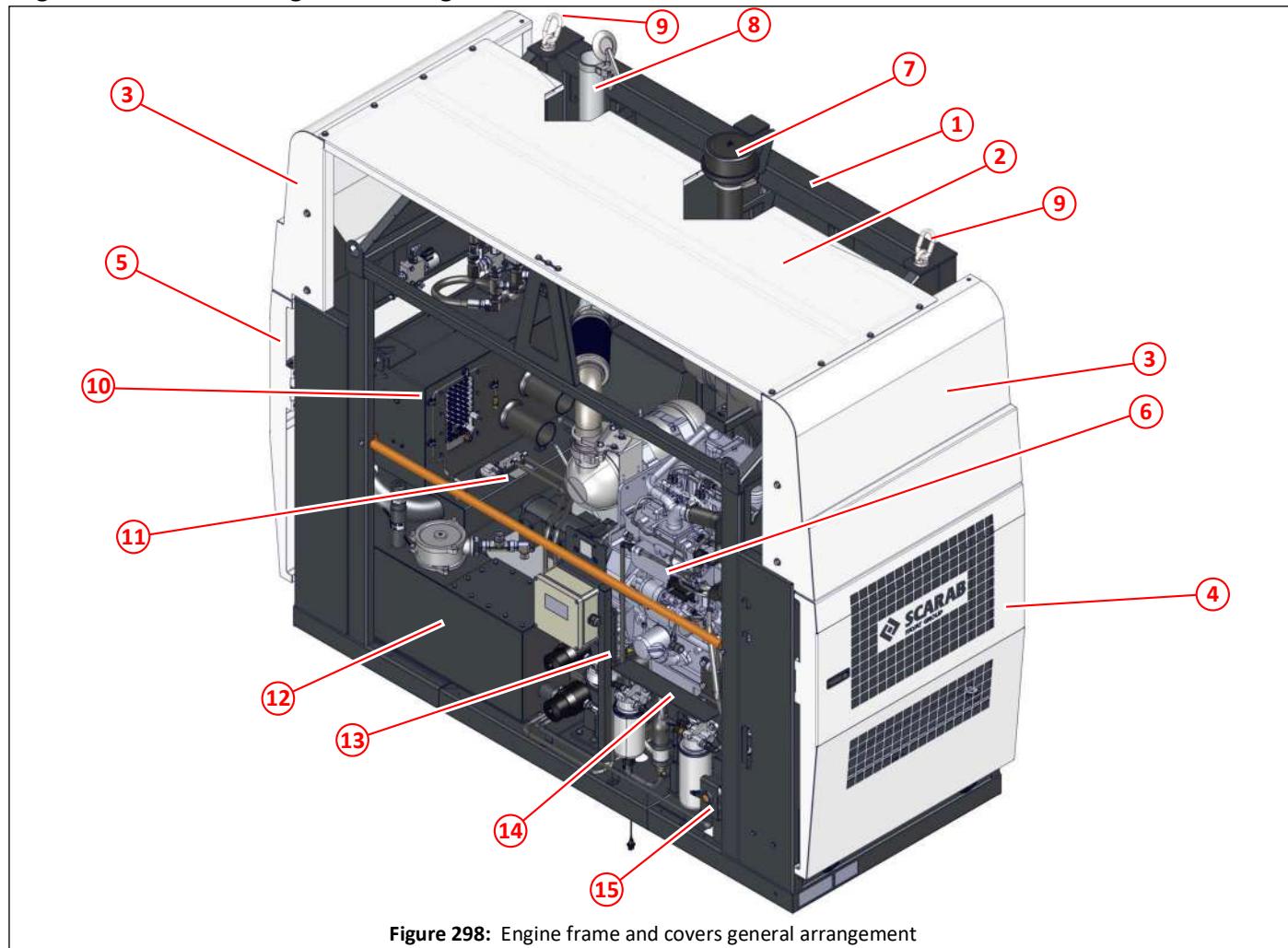
Relays

Part No	Description	
014718	Relay, K1, K2, K6, 24v	323,324
011768	Relay, K1, K2, K6, 12v	323,324
034207	Relay, glow plug heat, F30, 24v	327
038571	Relay, glow plug heat, F30, 12v	327
043720	Timer relay, gantry work light, K7, 24v	323
044511	Timer relay, gantry work light, K7, 12v	323

Engine frame and subframe

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Subframe to chassis mountings, position 4, Freightliner	420
Subframe to chassis mountings lateral support, left side, Freightliner	421
Subframe to chassis mountings lateral support, right side, Freightliner	422

Engine frame and covers general arrangement

Figure 298: Engine frame and covers general arrangement

Item	Part No	Qty	Description	
①	042803	1	Engine frame	364
②	043011	1	Roof panel, engine frame	336
③	043013	2	Extension wing, engine frame	336
④	039997	1	Door, right hand side, engine frame	338
⑤	039998	1	Door, left hand side, engine frame	337
⑥			Engine, Deutz TCD 3.6 L4	357,358
⑦			Air stack, engine	355
⑧			Exhaust stack, engine	354
⑨	035941	2	Eye bolt, linked, 1.6T	364
⑩	042862	1	Node and pneumatics cabinet assembly, pre August 2017	342
⑪	045456	1	Node and pneumatics cabinet assembly, after August 2017, 24v	342
⑫	045457	1	Node and pneumatics cabinet assembly, after August 2017, 12v	342
⑬	042815	1	Fuel tank	346
⑭	042817	1	Hydraulic oil tank assembly	339
⑮			Mounting bracket, battery junction box and hydraulic filters	350
⑯	042955	1	Mounting bracket, fuel system	351
⑰	032627	1	Proximity sensor, hopper raised	352

Covers, engine frame

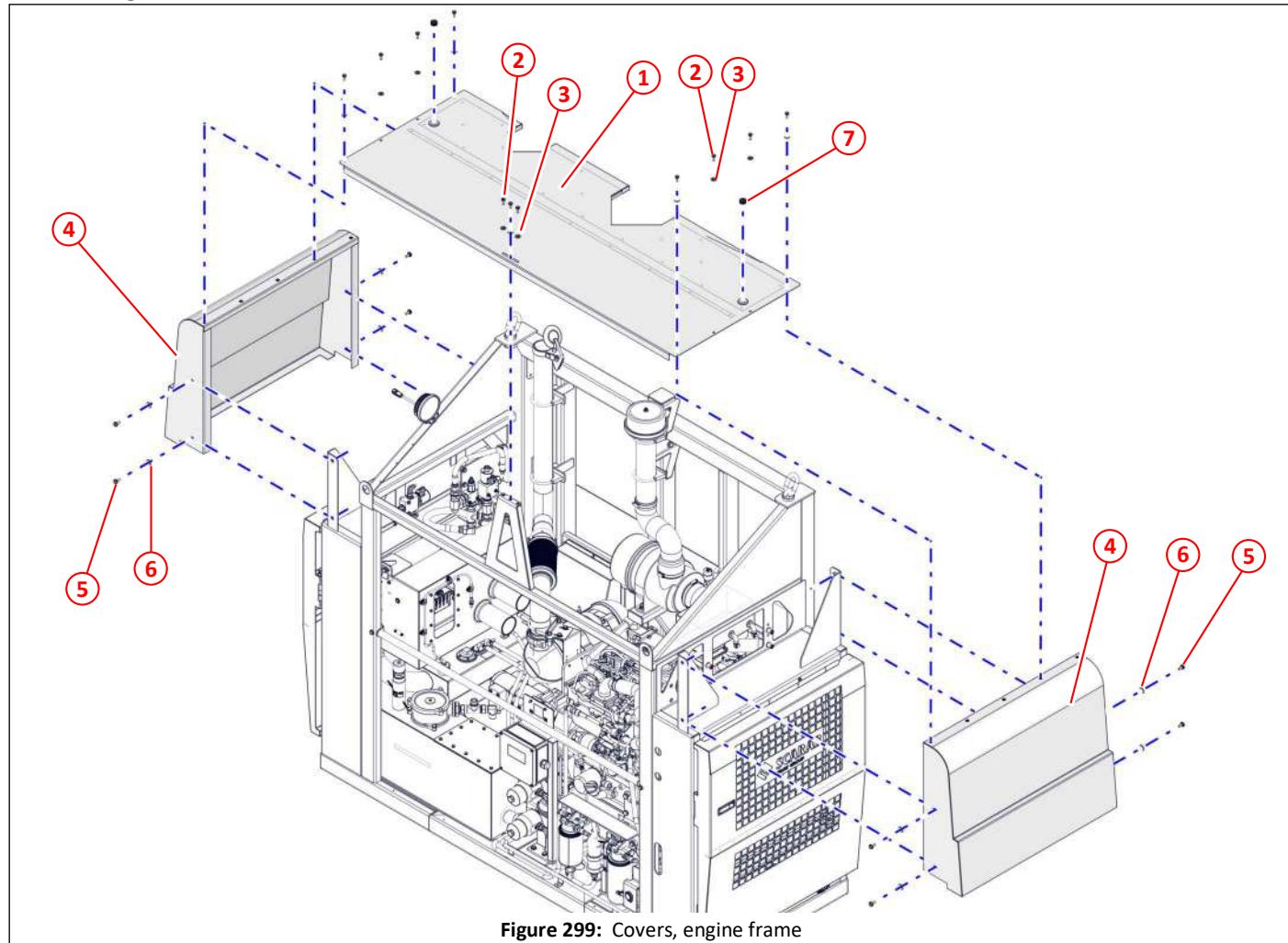
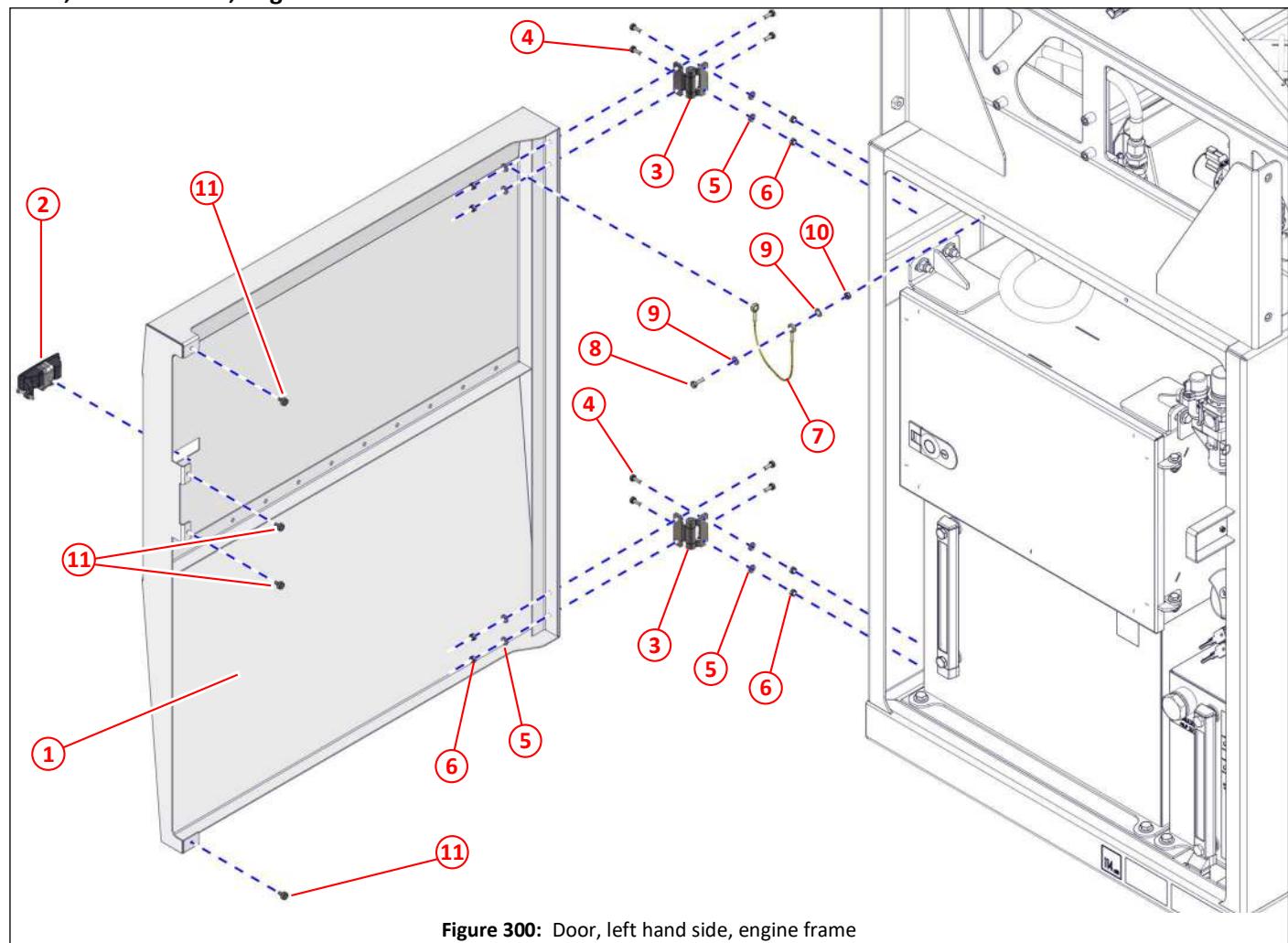


Figure 299: Covers, engine frame

Item	Part No	Qty	Description	
①	043011	1	Roof panel, engine frame	335
②	011010	11	Set screw M8 x 20	
③	011092	11	Plain washer M8	
④	043013	2	Extension wing, engine frame	335
⑤	011030	8	Set screw M10 x 20	
⑥	011094	8	Plain washer M10	
⑦	026173	2	Plug, plastic, ø25.4, black	

Door, left hand side, engine frame

Figure 300: Door, left hand side, engine frame

Item	Part No	Qty	Description	
①	039998	1	Door, left hand side, engine frame	335
②	035662	1	Panel latch	
③	028583	2	Hinge	
④	011001	8	Set screw M6 x 16	
⑤	011090	8	Plain washer M6	
⑥	011071	8	Nyloc nut M6	
⑦	020711	1	Leash cable	
⑧	011067	1	Set screw M6 x 20	
⑨	011090	2	Plain washer M6	
⑩	011071	1	Nyloc nut M6	
⑪	042506	4	Rubber foot, push on	

Engine frame and subframe

Door, right hand side, engine frame

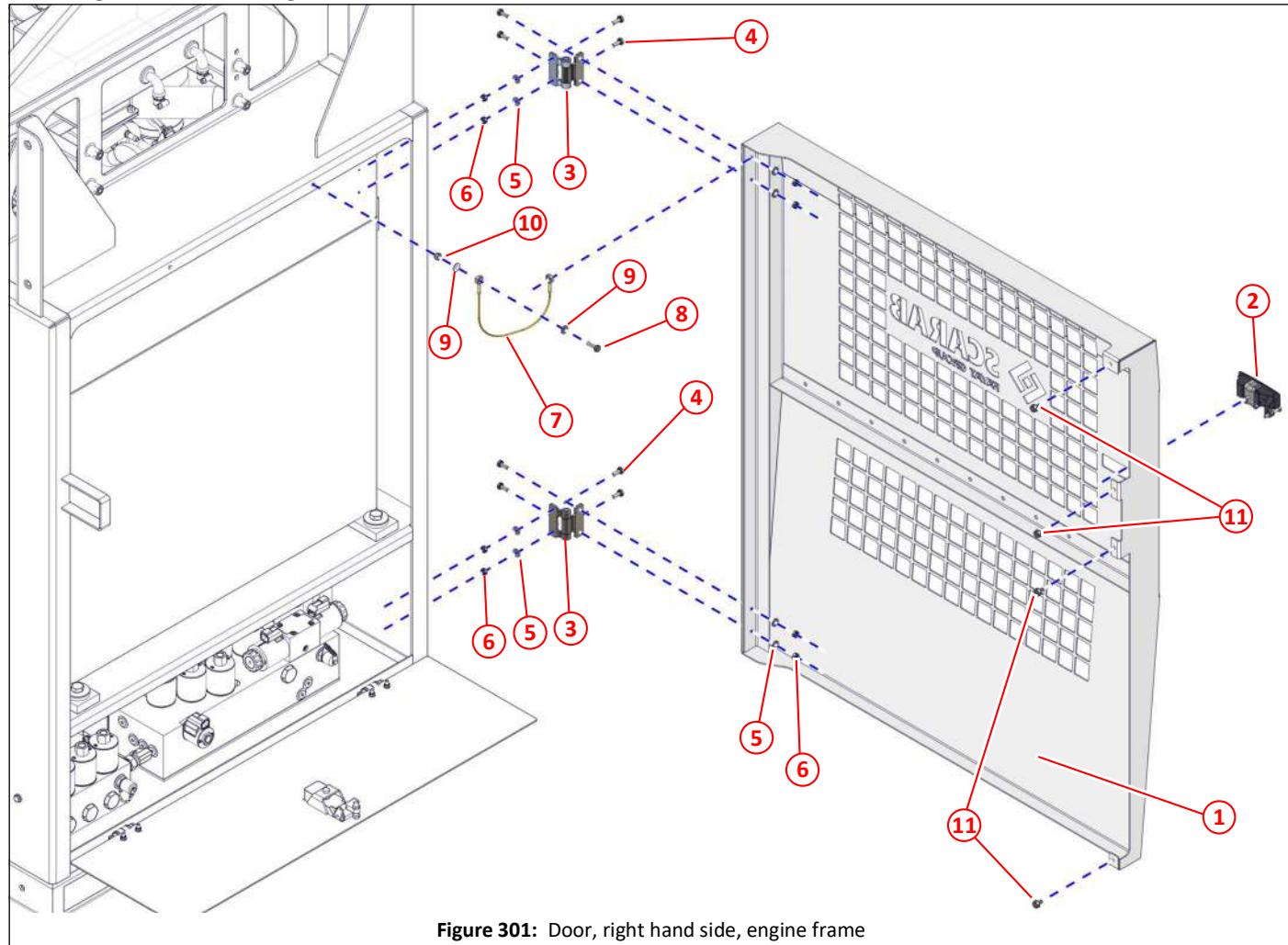
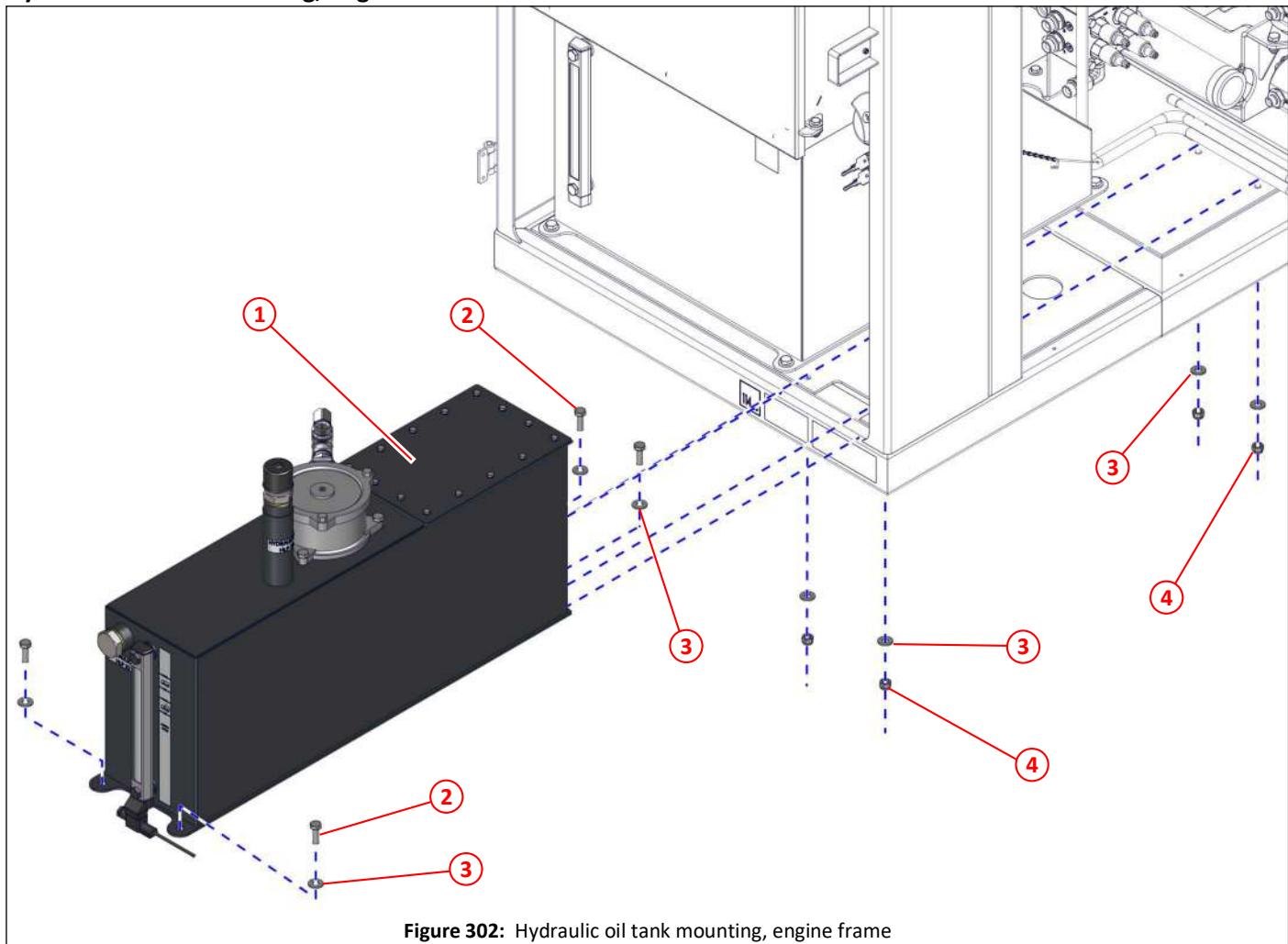


Figure 301: Door, right hand side, engine frame

Item	Part No	Qty	Description	
①	039997	1	Door, right hand side, engine frame	335
②	035662	1	Panel latch	
③	028583	2	Hinge	
④	011001	8	Set screw M6 x 16	
⑤	011090	8	Plain washer M6	
⑥	011071	8	Nyloc nut M6	
⑦	020711	1	Leash cable	
⑧	011067	1	Set screw M6 x 20	
⑨	011090	2	Plain washer M6	
⑩	011071	1	Nyloc nut M6	
⑪	042506	4	Rubber foot, push on	

Hydraulic oil tank mounting, engine frame


Item	Part No	Qty	Description	
①	042817	1	Hydraulic oil tank, assembly	249,250
②	011032	4	Set screw M10 x 30	
③	011094	8	Plain washer M10	
④	011075	4	Nyloc nut M10	

Hydraulic tank and fittings

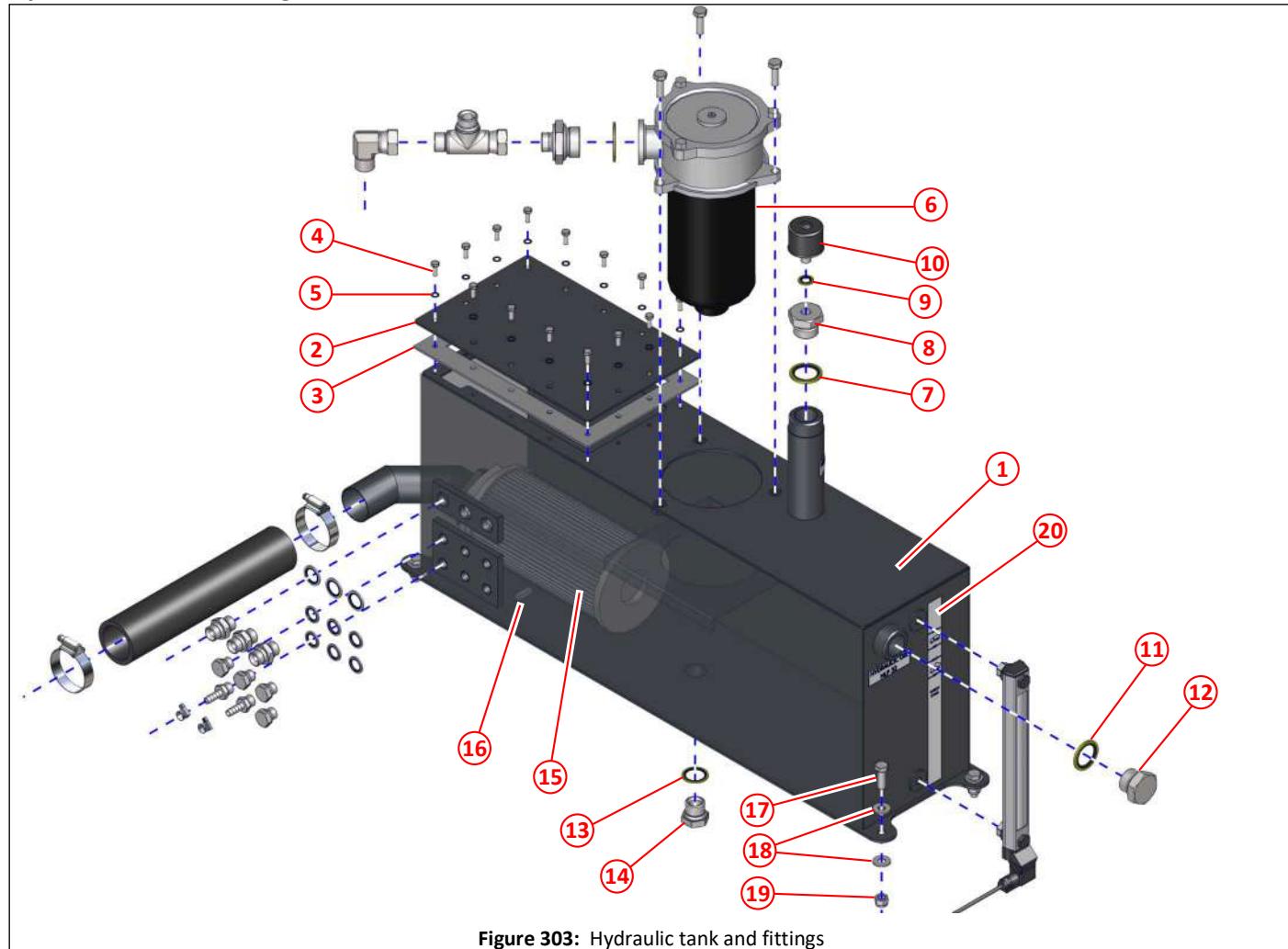
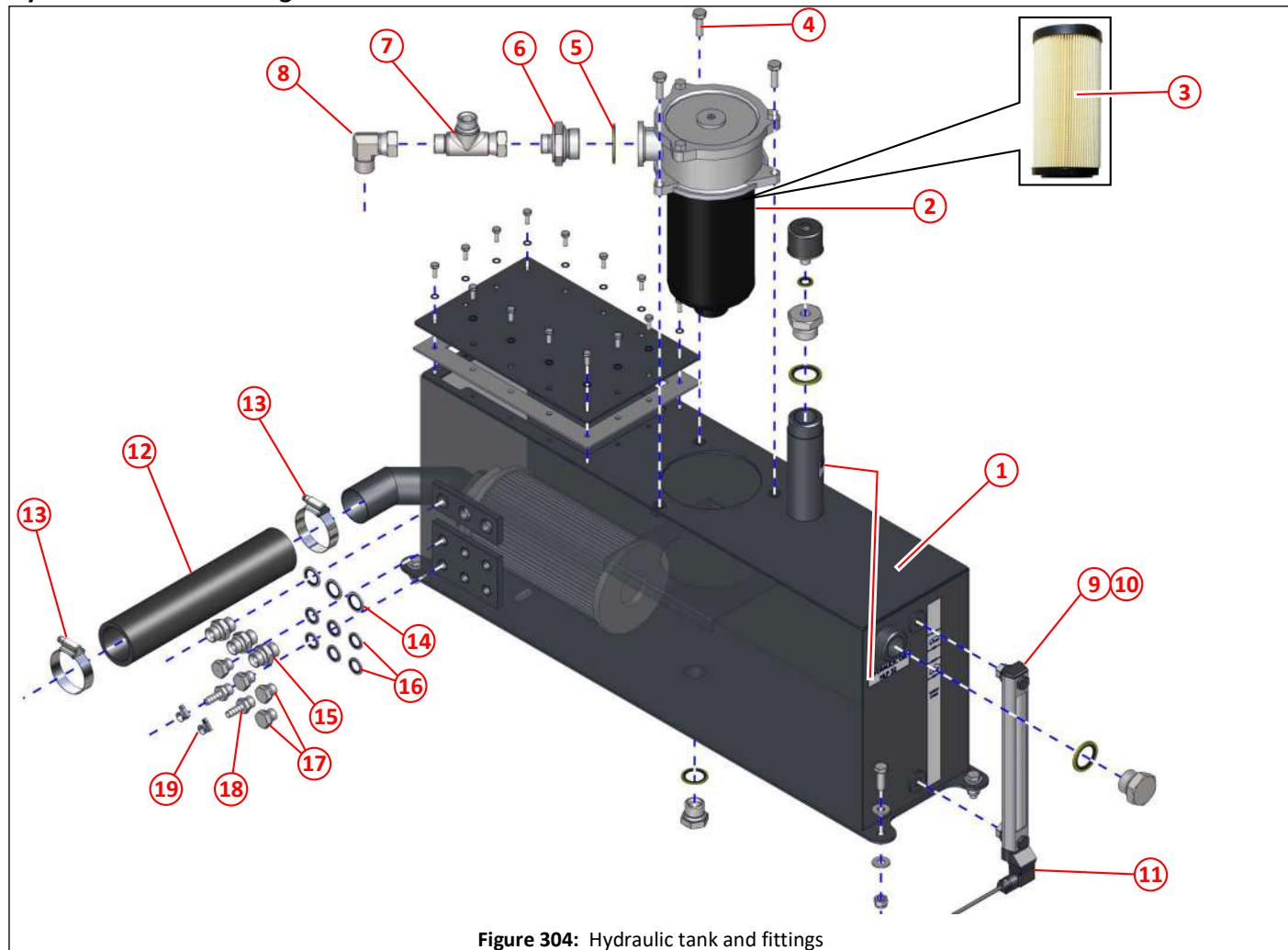


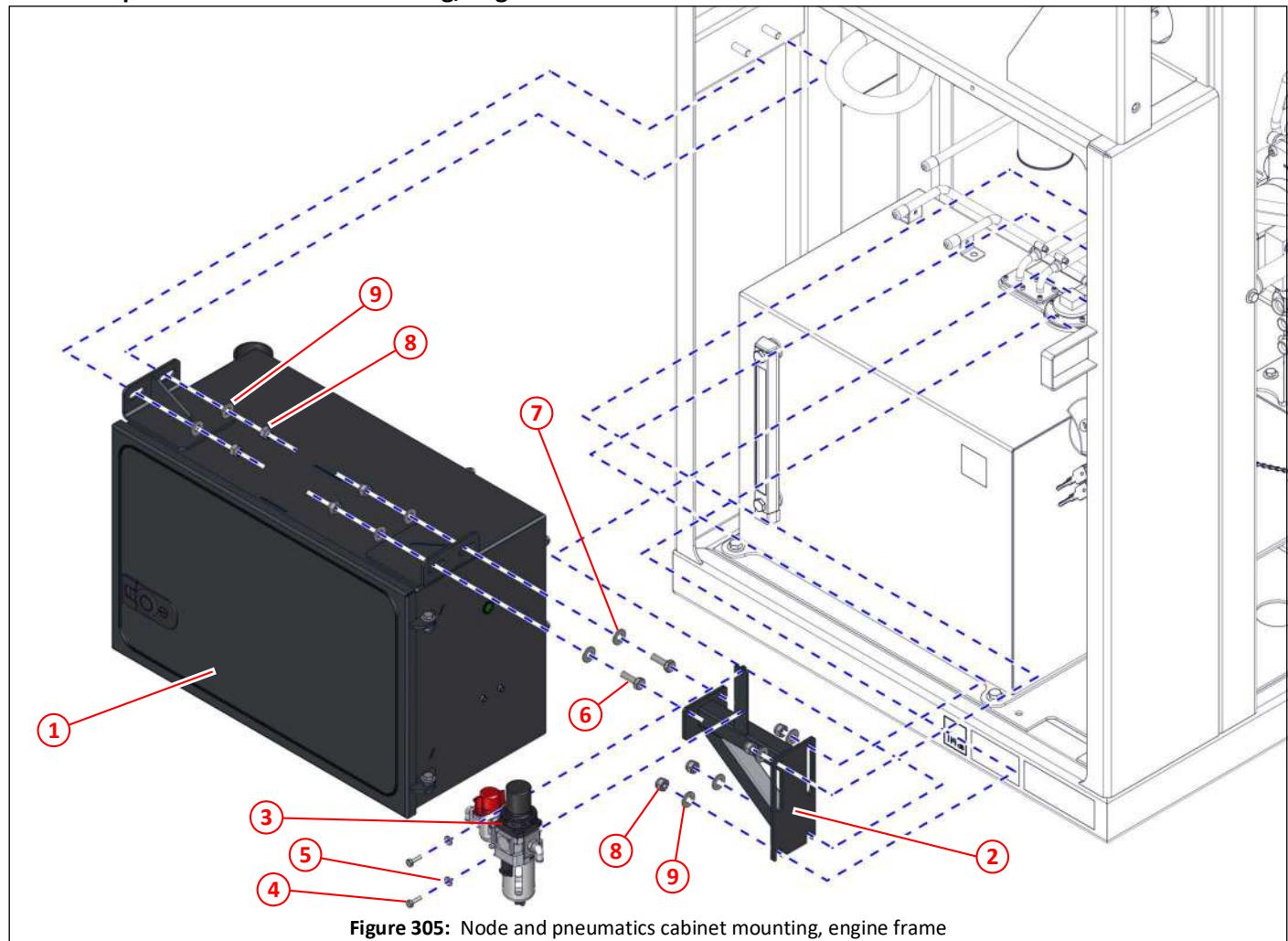
Figure 303: Hydraulic tank and fittings

Item	Part No	Qty	Description	
①	042818	1	Oil tank, hydraulic	249,250,339,341
②	042824	1	Lid, oil tank	
③	042866	1	Gasket, oil tank	
④	011001	14	Set screw M6 x 16	
⑤	000309	14	Lock washer, M6, zinc	
⑥	013123	1	Filter, return, includes filter element	341
⑦	011156	1	Dowty seal 1" BSP	
⑧	020689	1	Filler plug	
⑨	011152	1	Dowty seal 1/4" BSP	
⑩	020688	1	Filter, air breather	
⑪	011156	1	Dowty seal 1" BSP	
⑫	011136	1	Plug 1" BSP	
⑬	011155	1	Dowty seal 3/4" BSP	
⑭	011244	1	Plug 3/4" BSP	
⑮	020687	1	Filter. element, suction	
⑯	010305	1	Magnet	
⑰	011032	4	Set screw M10 x 30	
⑱	011094	8	Plain washer M10	
⑲	011075	4	Nyloc nut M10	
⑳	044831	1	Label - Hydraulic oil level	

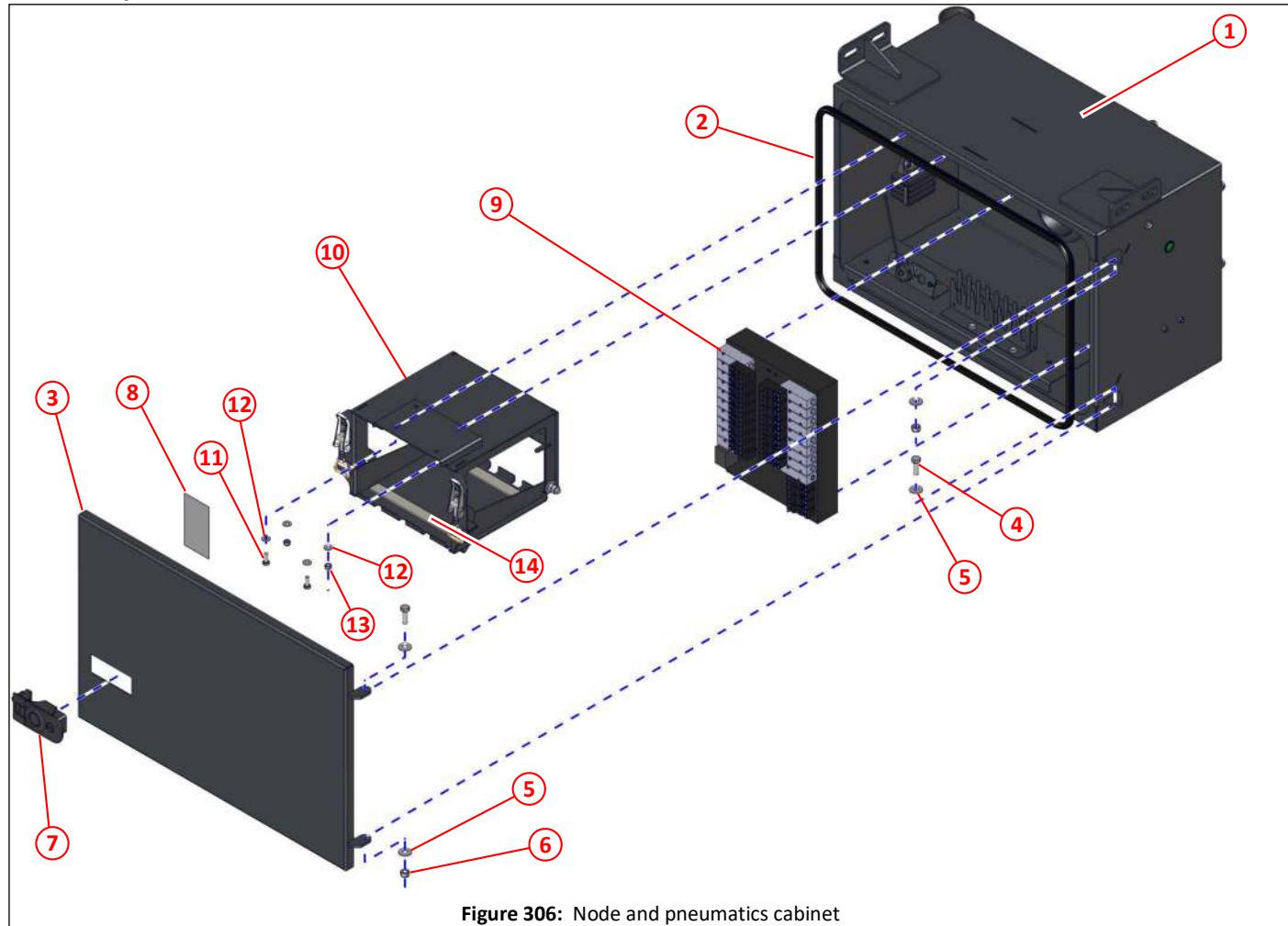
Hydraulic tank and fittings

Figure 304: Hydraulic tank and fittings

Item	Part No	Qty	Description	
(1)	042818	1	Oil tank, hydraulic	249,250,339,340
(2)	013123	1	Filter, return, includes filter element	
(3)	013125	1	Element, return filter	
NI	024405	1	Seal kit, return filter	
(4)	011032	3	Set screw M10 x 30	
(5)	011150	1	Dowty seal 1¼" BSP	
(6)	011184	1	Adapter 1¼" BSP x ¾" BSP reducer	
(7)	011197	1	Tee, ¾" BSP, nut on run, branch return from suction fan circuit	
(8)	011174	1	Elbow, swivel, ¾" BSP, connection return from suction fan	
(9)	024039	1	Level gauge, with switch and fitting screws	
(10)	021979	2	Sealing washer	
(11)	036842	1	M12 plug/cable and valve, plug type B	
(12)	031272	1	Hose 2" x 300, suction, to hydraulic suction manifold	251
(13)	029778	2	Hose clamp, worm drive, high torque, (ø40-ø70)	
(14)	011154	3	Dowty seal ½" BSP	
(15)	011160	3	Adapter, M/M, ½" BSP	
(16)	011153	6	Dowty seal ¾" BSP	
(17)	011242	4	Plug ¾" BSP	
(18)	010923	2	Adapter, ¾" BSP x ¾" hose tail	
(19)	010516	2	Hose clamp, worm drive, No. M00 (ø11mm-ø16mm)	

Node and pneumatics cabinet mounting, engine frame

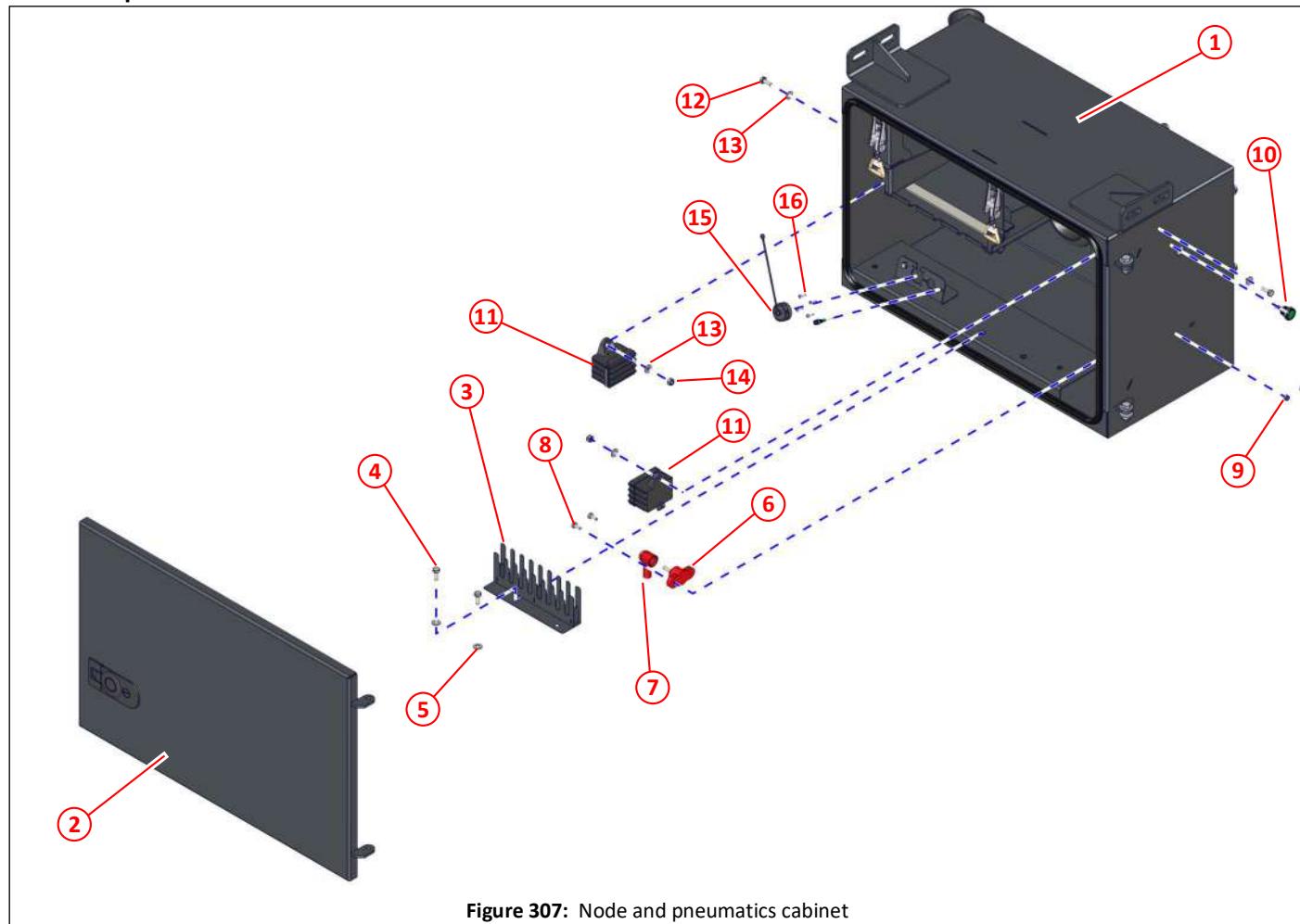


Item	Part No	Qty	Description	
①	042862	1	Node and pneumatics cabinet assembly, pre August 2017	335,343
①	045456	1	Node and pneumatics cabinet assembly, after August 2017, 24v	335,343
①	045457	1	Node and pneumatics cabinet assembly, after August 2017, 12v	335,343
②	043041	1	Support bracket, node and pneumatics cabinet	
③	032519	1	Air regulator and filter	304
④	011067	2	Set screw M6 x 20	
⑤	011090	2	Plain washer M6	
⑥	011032	2	Set screw M10 x 30	
⑦	011094	2	Plain washer M10	
⑧	011075	4	Nyloc nut M10	
⑨	011094	4	Plain washer M10	

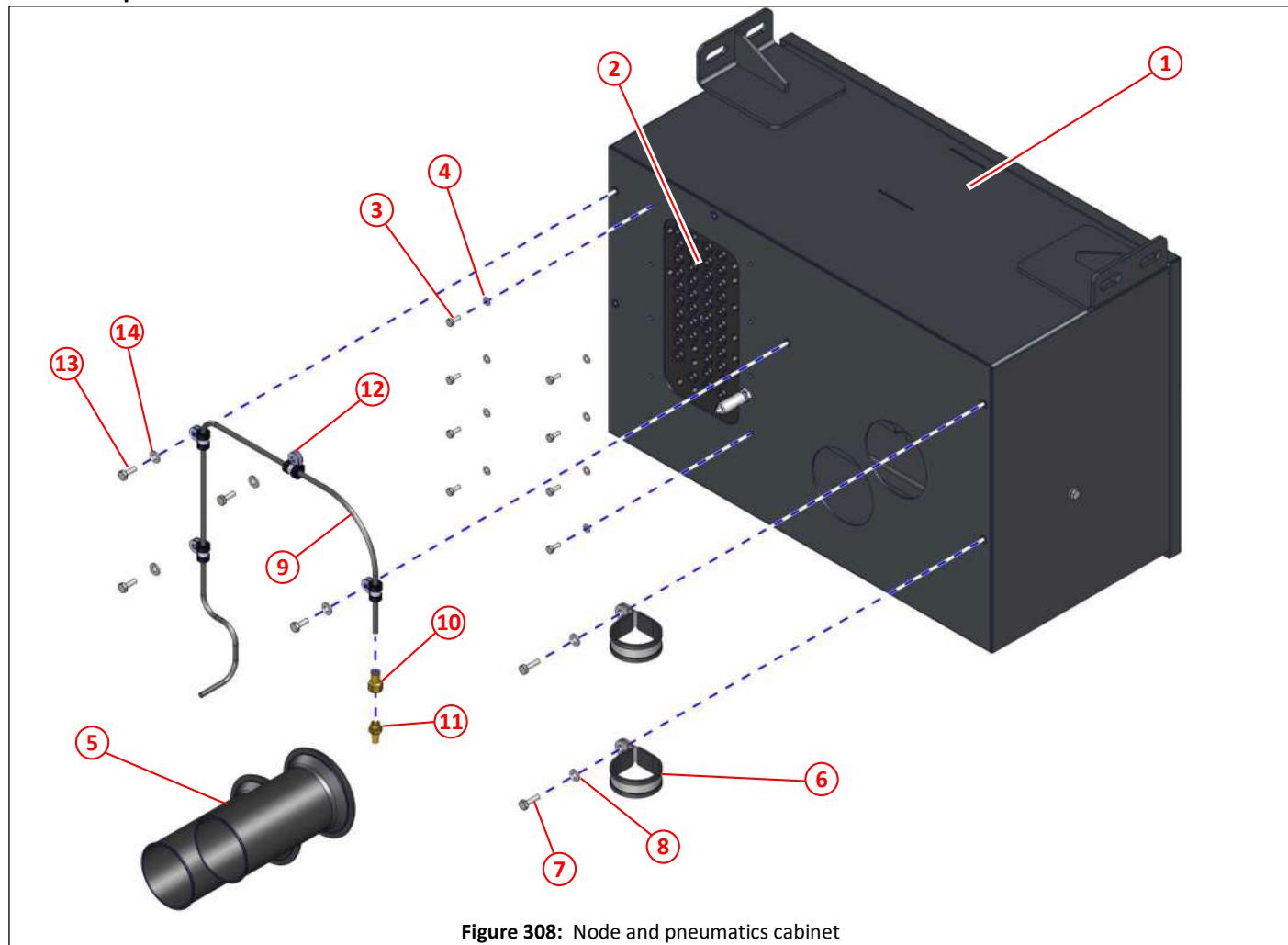
Node and pneumatics cabinet


Item	Part No	Qty	Description	
①	042863	1	Node and pneumatics cabinet	342
①	045456	1	Node and pneumatics cabinet assembly, after August 2017, 24v	342
①	045457	1	Node and pneumatics cabinet assembly, after August 2017, 12v	342
②	025222	As req	Titanfast section DX78	
③	042898	1	Door, Node and pneumatics cabinet	
④	011011	2	Set screw M8 x 25	
⑤	011092	4	Plain washer M8	
⑥	011073	2	Nyloc nut M8	
⑦	033634	1	Latch, sealed, locking	
⑧	043458	1	Label - Fuses, node and pneumatics cabinet	
⑨	034631	1	Pneumatics board, populated, pre August 2017	292
⑨	045293	1	Pneumatics board (HAF), populated, after August 2017, 24v	294
⑨	045303	1	Pneumatics board (HAF), populated, after August 2017, 12v	294
⑩	037996	1	Node carrier	
⑪	011001	2	Set screw M6 x 16	
⑫	011090	4	Plain washer M6	
⑬	011071	2	Nyloc nut M6	
⑭	013645	As req	Inseal strip 3 x 19	

Node and pneumatics cabinet



Item	Part No	Qty	Description	
①	042863	1	Node and pneumatics cabinet	342
①	045456	1	Node and pneumatics cabinet assembly, after August 2017, 24v	342
①	045457	1	Node and pneumatics cabinet assembly, after August 2017, 12v	342
②	042898	1	Door, Node and pneumatics cabinet	
③	037994	1	Splice saver rack	
④	011001	2	Set screw M6 x 16	
⑤	011090	2	Plain washer M6	
⑥	036843	1	Power post, red	325
⑦	004489	1	Rubber boot, red, for power post	325
⑧	100103	2	Pan head Pozidrive screw M5 x 12	
⑨	000155	2	Nyloc nut M5	
⑩	038223	1	Switch, gantry work light, green, on side of node cabinet	325
⑪	036844	2	Power connection link	324
⑫	011001	2	Set screw M6 x 16	
⑬	011090	4	Plain washer M6	
⑭	011071	2	Nyloc nut M6	
⑮	043377	1	Socket dust cap, for diagnostic plug	
⑯	000179	4	Socket button head screw M3 x 12, black	

Node and pneumatics cabinet

Figure 308: Node and pneumatics cabinet

Item	Part No	Qty	Description	
①	042863	1	Node and pneumatics cabinet	342
①	045456	1	Node and pneumatics cabinet assembly, after August 2017, 24v	342
①	045457	1	Node and pneumatics cabinet assembly, after August 2017, 12v	342
②		1	Pneumatics board	292,294
③	000097	8	Bolt M5 x 12	
④	000410	8	Plain washer	
⑤	034807	2	Panel sock	
⑥	005055	2	P-clip ø50	
⑦	011067	2	Set screw M6 x 20	
⑧	011090	2	Plain washer M6	
⑨	014572	As req	Air pipe, ø6 X 1 WT, black (connects to fuel tank breather)	347
⑩	024652	1	Union, female, ø6 x $\frac{1}{8}$ " BSP	
⑪	006006	1	Muffler $\frac{1}{8}$ " BSP	
⑫	003005	4	P-clip ø6	
⑬	011001	4	Set screw M6 x 16	
⑭	011090	4	Plain washer M6	

Fuel tank mounting, engine frame

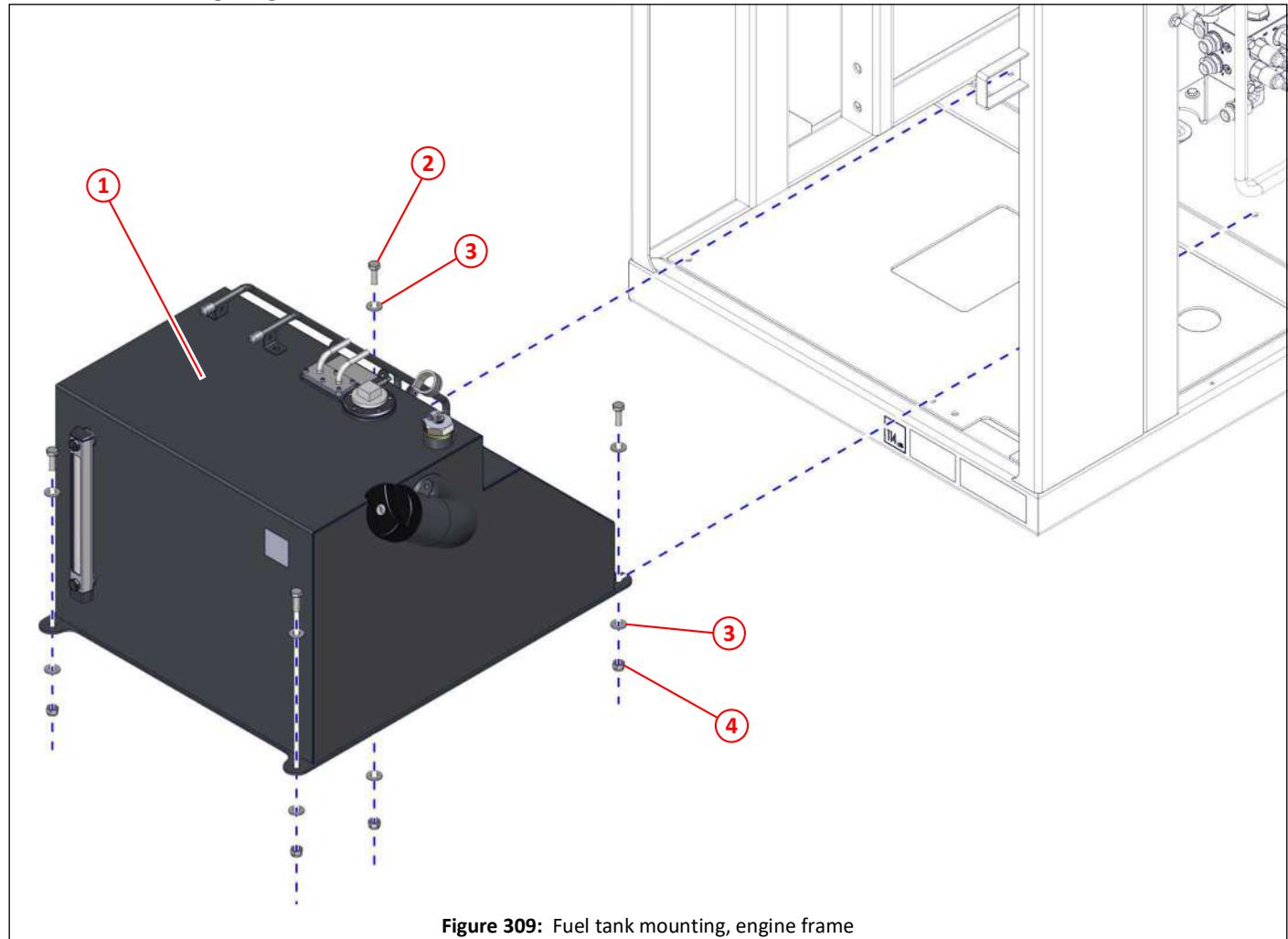
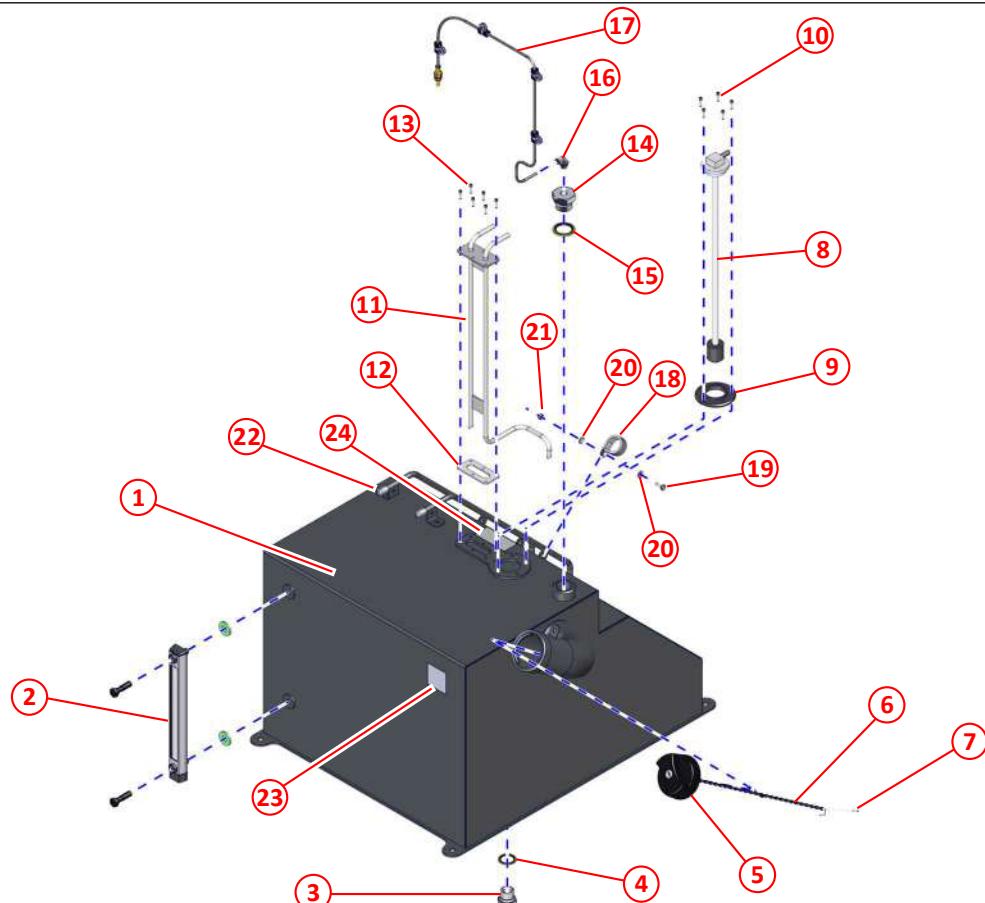


Figure 309: Fuel tank mounting, engine frame

Item	Part No	Qty	Description	
①	042814	1	Fuel tank assembly	
②	011032	4	Set screw M10 x 30	
③	011094	8	Plain washer M10	
④	011075	4	Nyloc nut M10	

Fuel tank, fittings

Figure 310: Fuel tank, fittings

Item	Part No	Qty	Description	
①	042815	1	Fuel tank	
②	032662	1	Level gauge, fuel tank, includes seals and bolts	
③	011244	1	Plug 3/4" BSP	
④	011155	1	Dowty seal 3/4" BSP	
⑤	032734	1	Fuel cap, locking	
⑥	005103	1	Safety chain	
⑦	033329	1	Toggle	
⑧	035466	1	Fuel sender unit	331
⑨	028840	1	Fitting kit, fuel sender	
⑩	000142	5	Socket cap head screw M4 x 15, plated	
⑪	042961	1	Fuel feed/return	
⑫	031189	1	Seal, fuel feed/return	
⑬	000142	6	Socket cap head screw M4 x 15, plated	
⑭	020689	1	Plug, breather	
⑮	011156	1	Dowty seal 1" BSP	
⑯	023203	1	Elbow, push in, swivel, ø6 x 1/4" BSP	
⑰		1	Breather, fuel tank	345
⑱	024705	1	P-clip ø35	
⑲	011001	1	Set screw M6 x 16	
⑳	011090	2	Plain washer M6	
㉑	011071	1	Nyloc nut M6	
㉒	043065	4	Pipe cap ø12	
㉓	043264	1	Label - Diesel	
㉔	043866	1	Label - Fuel feed/return	

Combined intercooler/radiator/hydraulic oil cooler mounting, engine frame

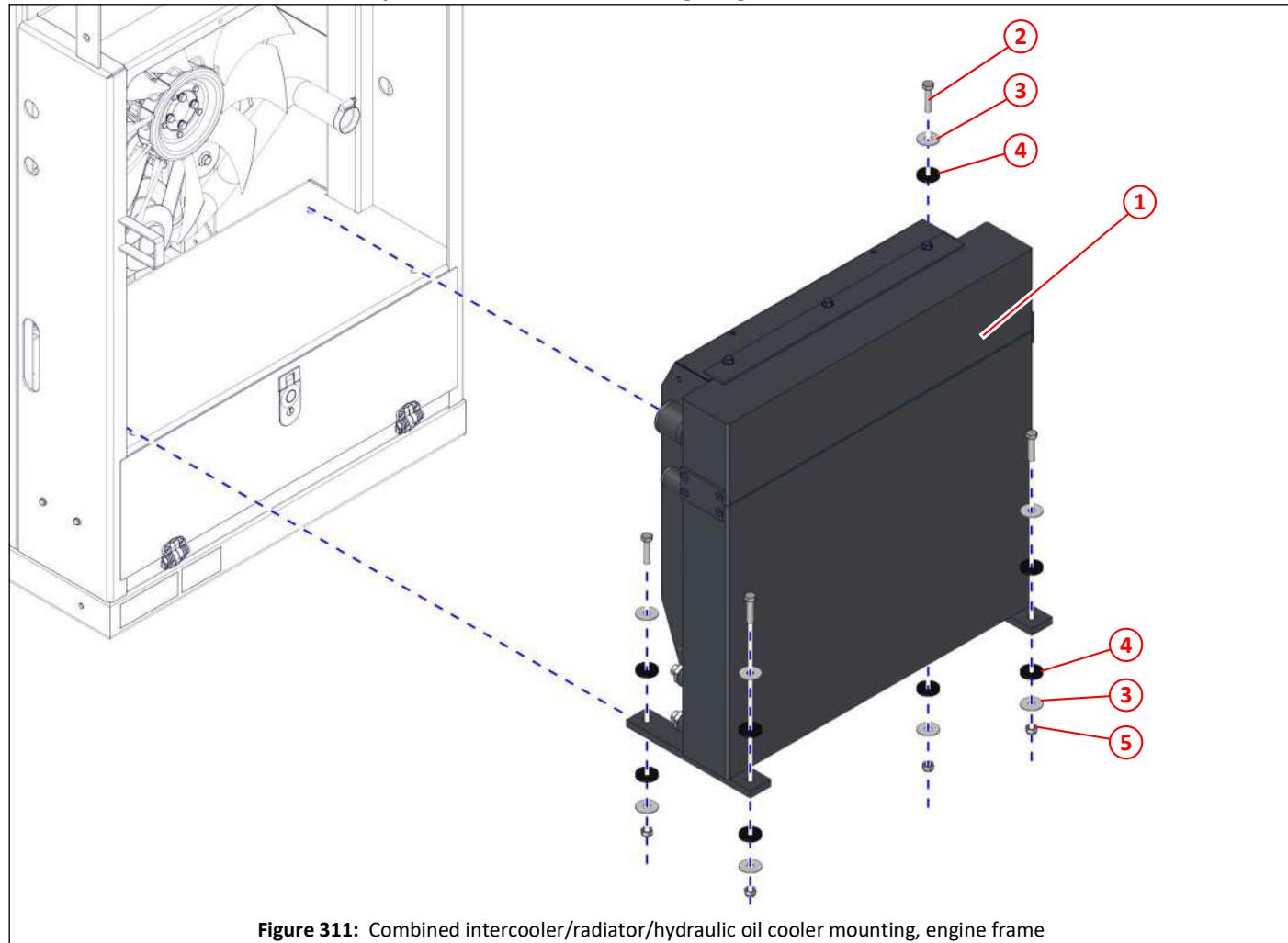
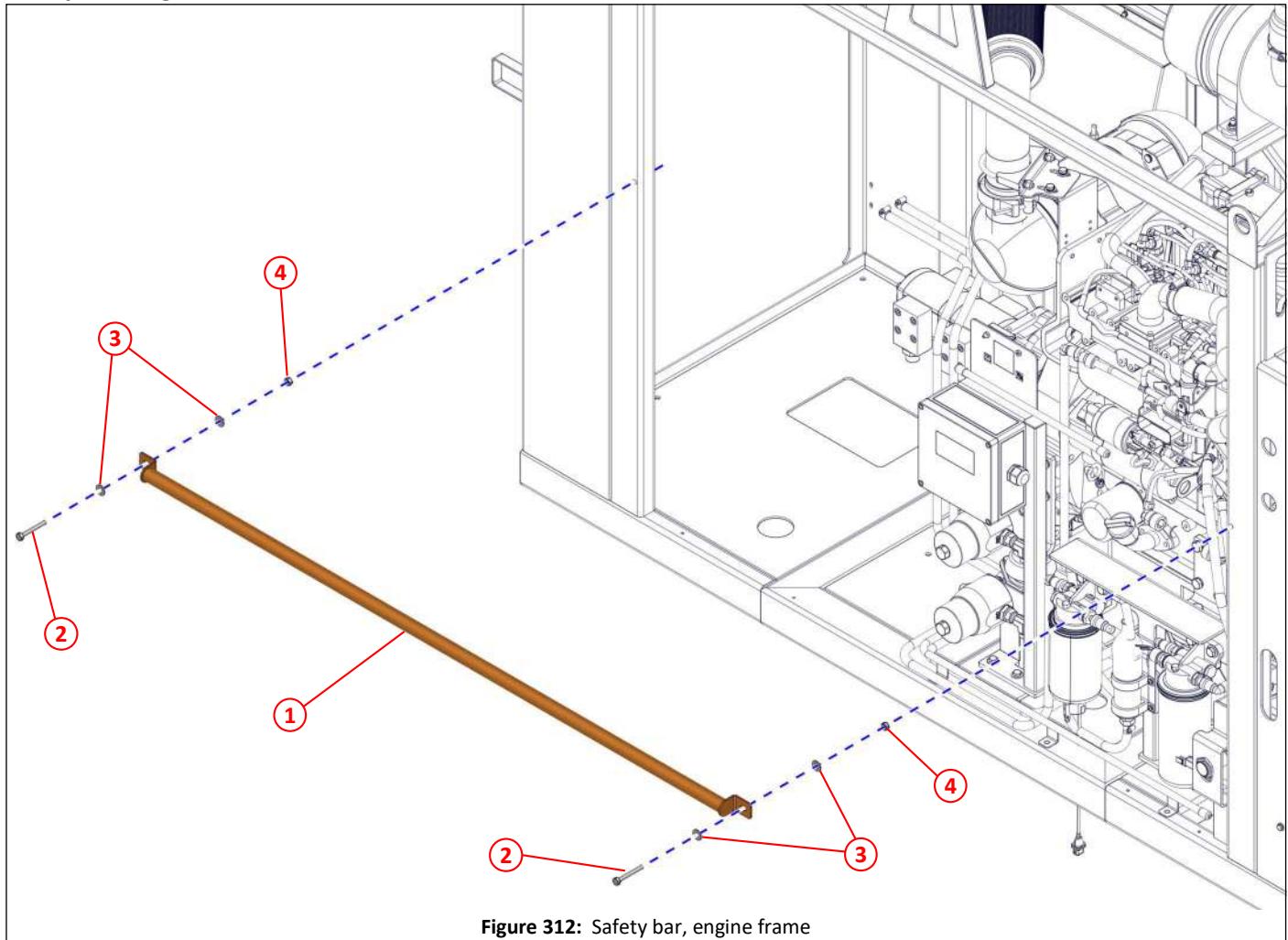


Figure 311: Combined intercooler/radiator/hydraulic oil cooler mounting, engine frame

Item	Part No	Qty	Description	
①	042800	1	Combined intercooler/radiator/hydraulic cooler	248,437
②	000024	4	Set screw M12 x 50	
③	013448	8	Washer ø13 x ø40 x 2	
④	012969	8	Washer, rubber, ø12 x ø40 x 6	
⑤	011077	4	Nyloc nut M12	

Safety bar, engine frame

Figure 312: Safety bar, engine frame

Item	Part No	Qty	Description	
①	034800	1	Safety bar, engine frame	
②	011017	2	Bolt M8 x 60	
③	011092	4	Plain washer M8	
④	011073	2	Nyloc nut M8	

Engine frame and subframe

Battery junction box and hydraulic oil filters mounting, engine frame

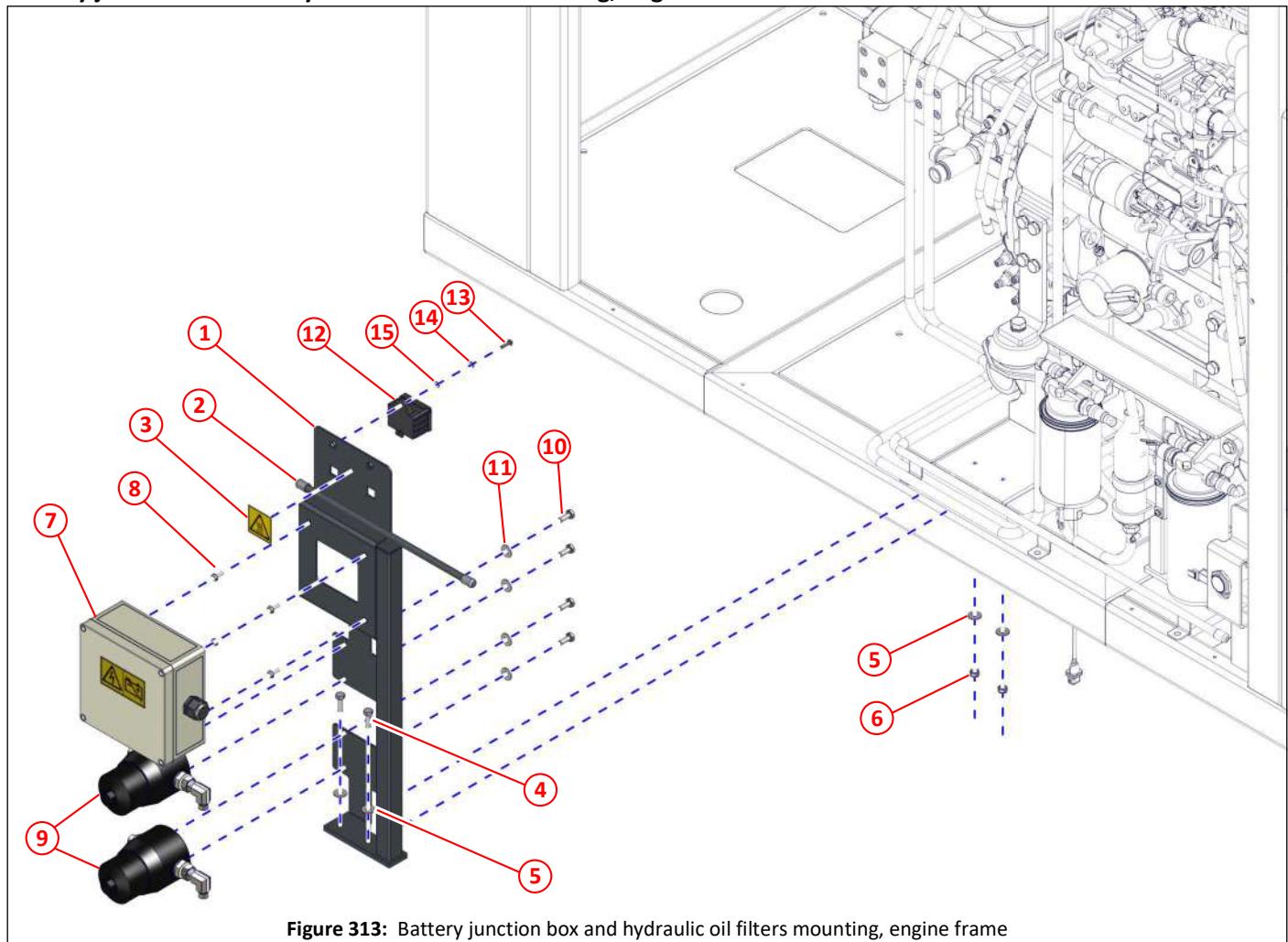
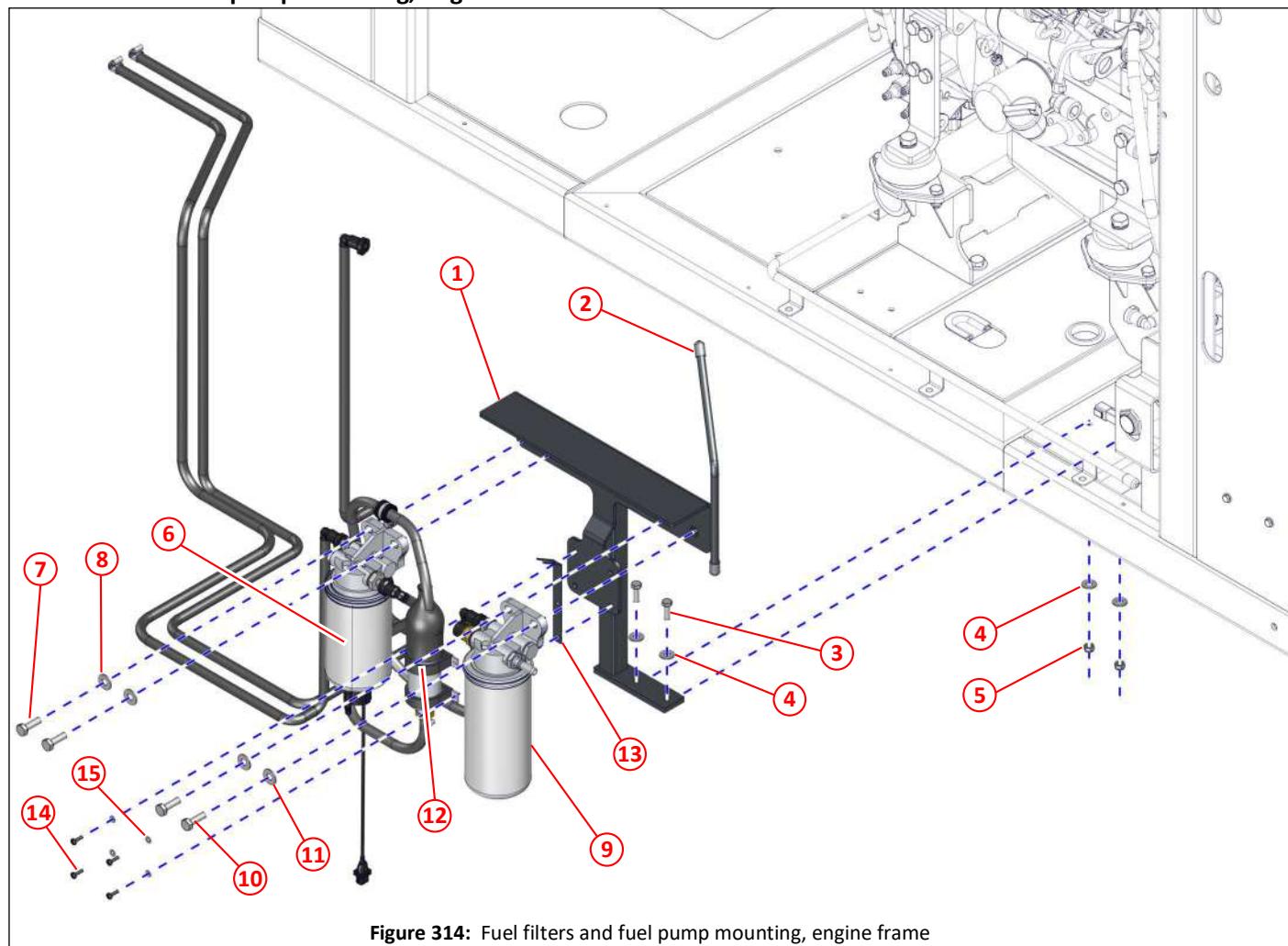


Figure 313: Battery junction box and hydraulic oil filters mounting, engine frame

Item	Part No	Qty	Description	
①	042957	1	Mounting bracket, battery junction box and hydraulic oil filters	
②	043065	2	Pipe cap, ø12	
③	043266	1	Label - Warning - Hot surface	
④	011011	2	Set screw M8 x 25	
⑤	011092	4	Plain washer M8	
⑥	011073	2	Nyloc nut M8	
⑦	043380	1	Battery junction box assembly, 24v	327
⑧	044537	1	Battery junction box assembly, 12v	327
⑨	025103	2	Filter, hydraulic oil, high pressure	256
⑩	011010	4	Set screw M8 x 20	
⑪	011092	4	Plain washer M8	
⑫	036844	1	Power connection link, black	324
⑬	000381	1	Dome socket head screw, M5 x 20, stainless steel	
⑭	000411	1	Spring washer M5	
⑮	000410	1	Plain washer M5	

Fuel filters and fuel pump mounting, engine frame

Figure 314: Fuel filters and fuel pump mounting, engine frame

Item	Part No	Qty	Description	
①	042955	1	Mounting bracket, fuel filters and fuel pump	
②	043065	2	Pipe cap, Ø12	
③	011011	2	Set screw M8 x 25	
④	011092	4	Plain washer M8	
⑤	011073	2	Nyloc nut M8	
⑥	041699	1	Fuel filter, primary, assembly	433
⑦	011032	2	Set screw M10 x 30	
⑧	011094	2	Plain washer M10	
⑨	043035	1	Fuel filter, secondary, assembly	433
⑩	011032	2	Set screw M10 x 30	
⑪	011094	2	Plain washer M10	
⑫	043370	1	Fuel pump, 24v	433
⑬	044515	1	Fuel pump, 12v	433
⑭	043193	1	Bracket, fuel filter connector	
⑮	000234	4	Pan head Pozidrive screw M5 x 16, black	
⑯	000410	4	Plain washer M5	

Hopper raised sensor, engine frame

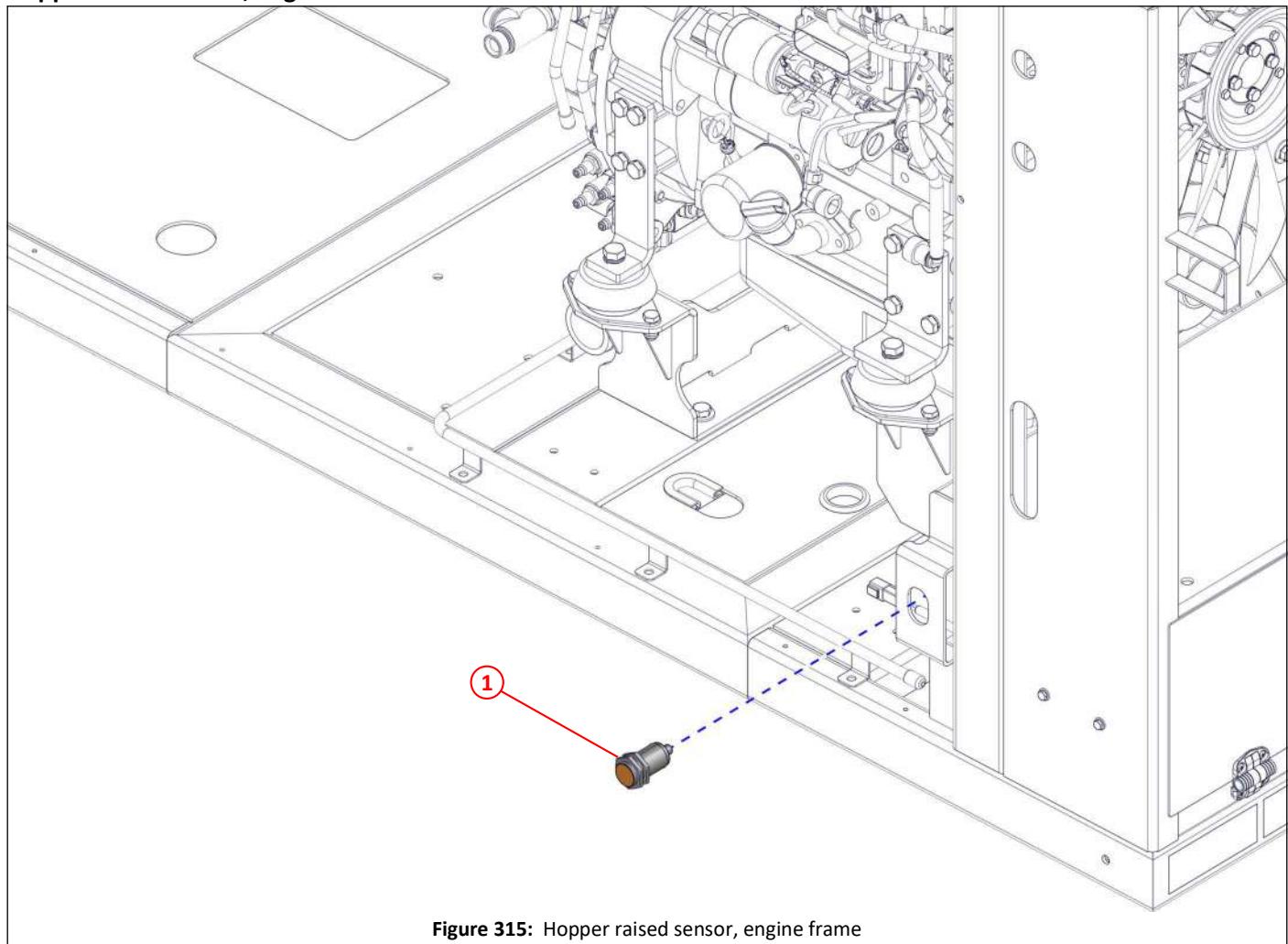
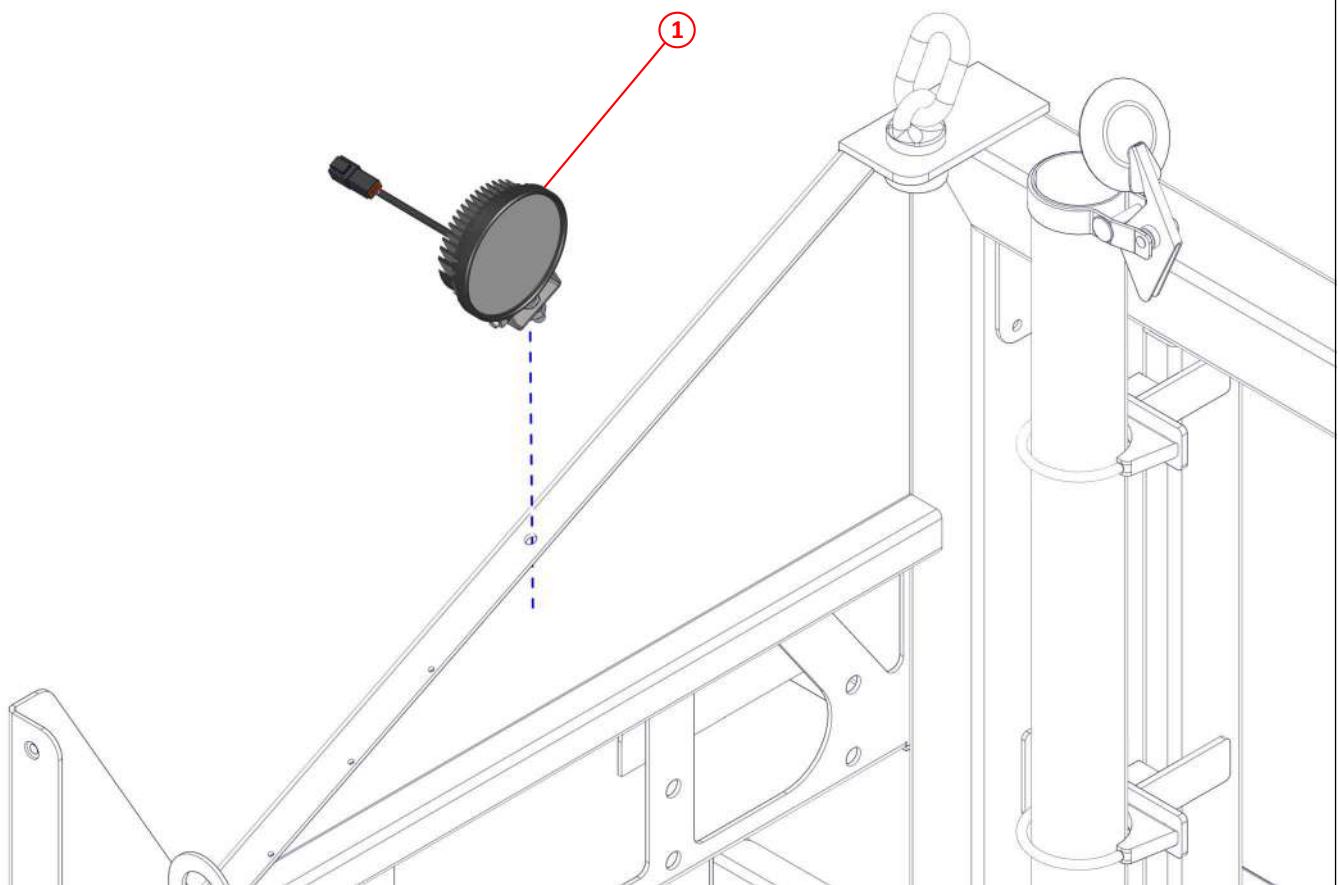


Figure 315: Hopper raised sensor, engine frame

Item	Part No	Qty	Description	
①	032627	1	Hopper raised proximity sensor	331
NI	043346	1	Loom, Node 4	

Work light, engine frame

Figure 316: Work light, engine frame

Item	Part No	Qty	Description	
①	047757	1	Work light, 12/24v	328
NI	043348	1	Loom, Node 5	328,330
NI	043719	1	Loom, gantry work light	328,330

Engine frame and subframe

Exhaust stack mounting, engine frame

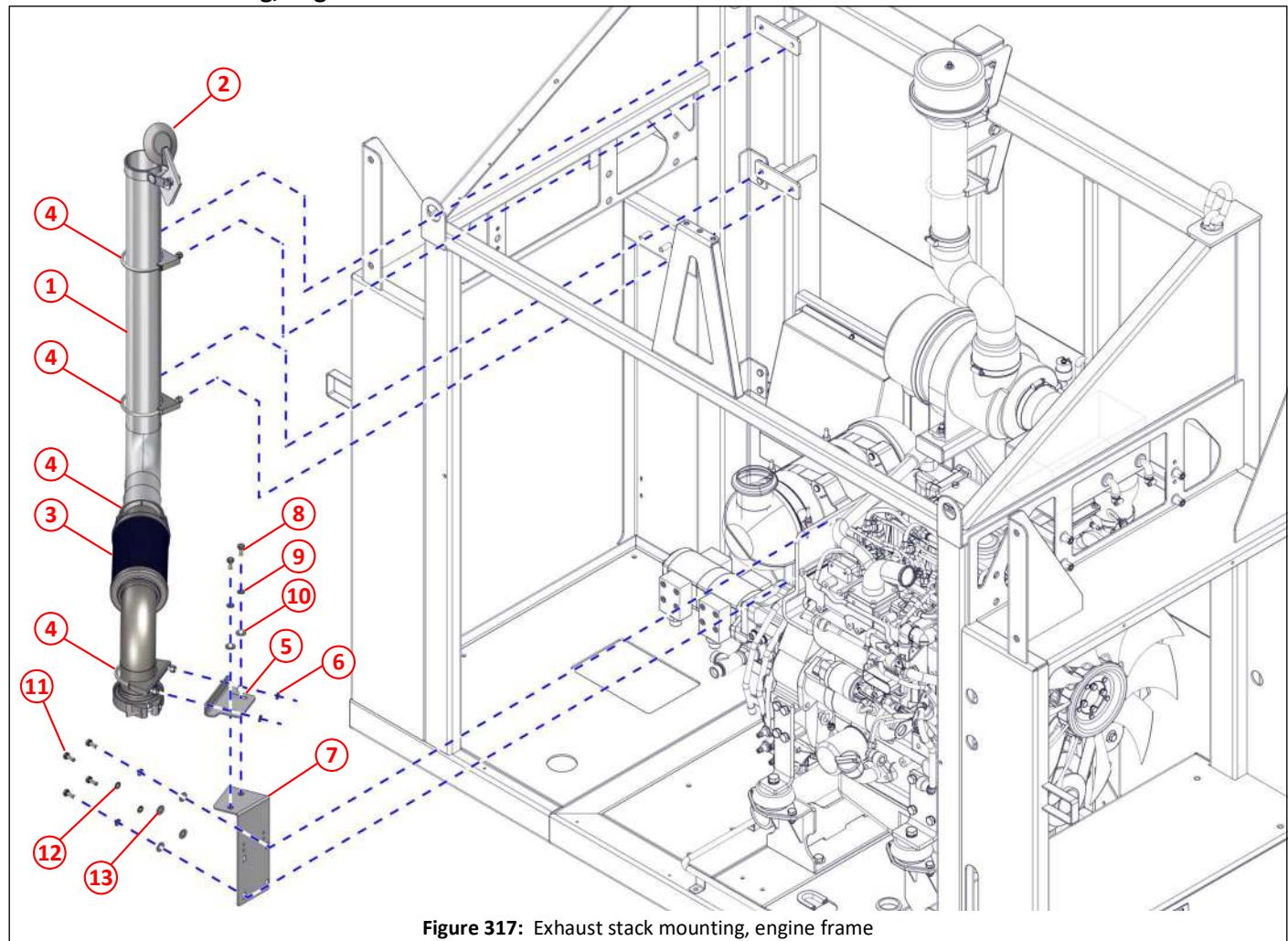
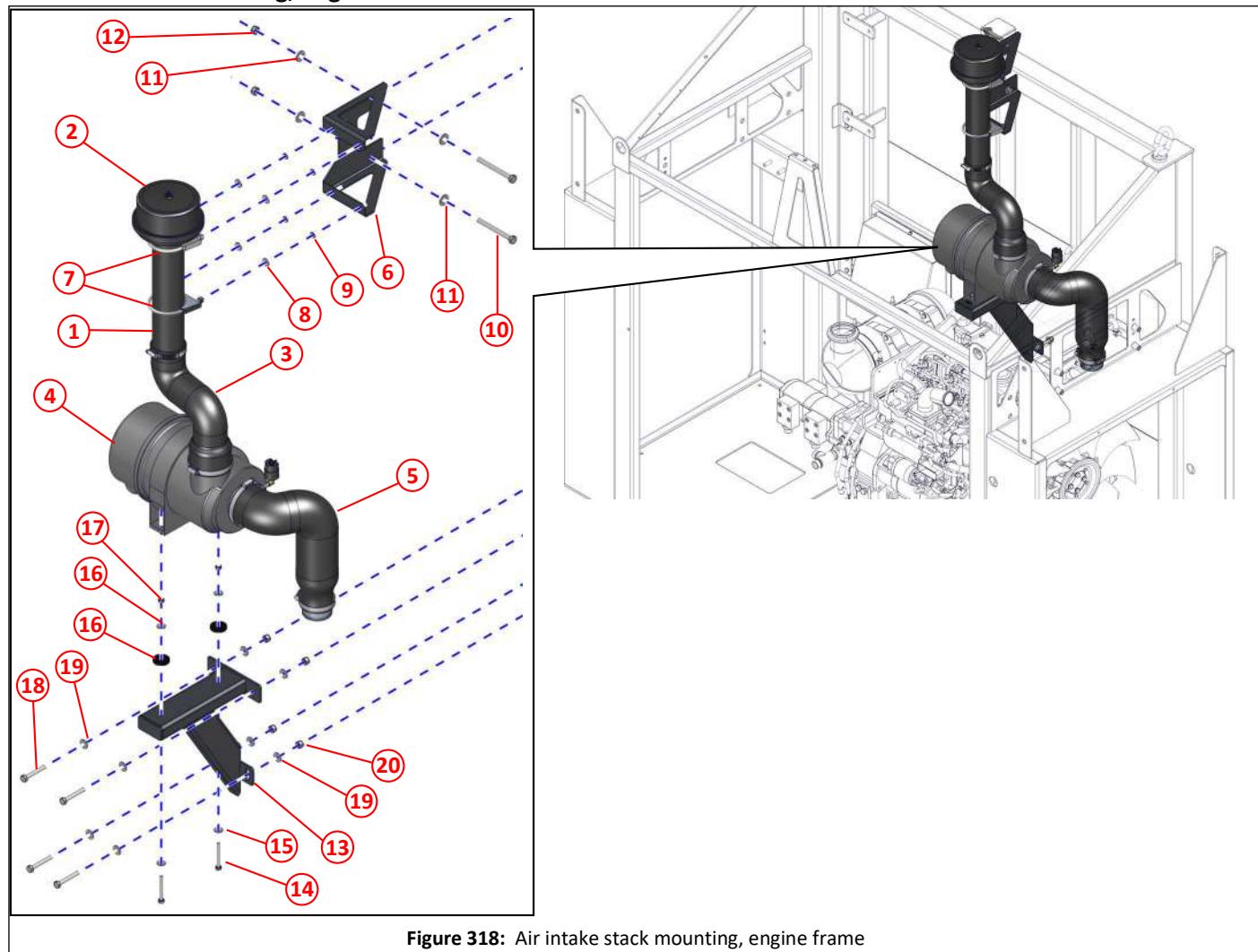


Figure 317: Exhaust stack mounting, engine frame

Item	Part No	Qty	Description	
①	043342	1	Exhaust stack	434
②	041907	1	Exhaust rain cap	434
③	043338	1	Exhaust elbow with flexible section	434
④	036831	4	U-clamp, exhaust, Ø83	
⑤	043940	1	Bracket, U-clamp, exhaust	434
⑥	011093	2	Spring washer M8	
⑦	043339	1	Bracket, exhaust elbow	434
⑧	011010	2	Set screw M8 x 20	
⑨	011093	2	Spring washer M8	
⑩	011092	2	Plain washer M8	
⑪	011010	4	Set screw M8 x 20	
⑫	011093	4	Spring washer M8	
⑬	011092	4	Plain washer M8	

Air intake stack mounting, engine frame

Figure 318: Air intake stack mounting, engine frame

Item	Part No	Qty	Description	
①	042915	1	Air intake stake	435
②	036022	1	Cap, pre-cleaner, air intake stack	435
③	042999	1	Hose B, air inlet	435
④	025279	1	Air cleaner assembly	435
⑤	042812	1	Hose A, air inlet	435
⑥	042946	1	Mounting bracket, air intake stack	435
⑦	036831	2	U-clamp ø83	
⑧	011092	4	Plain washer M8	
⑨	011093	4	Spring washer M8	
⑩	011064	2	Bolt M12 x 110	
⑪	011096	4	Plain washer M12	
⑫	011077	2	Nyloc nut M12	
⑬	042920	1	Mounting bracket, air cleaner	435
⑭	011018	2	Bolt M8 x 70	
⑮	011092	4	Plain washer M8	
⑯	012969	2	Washer, rubber, ø12 x ø40 x 6	
⑰	011073	2	Nyloc nut M8	
⑱	011037	4	Bolt M10 x 65	
⑲	011094	8	Plain washer N10	
⑳	011075	4	Nyloc nut M10	

Flow control valve block and hydraulic manifold mountings, engine frame

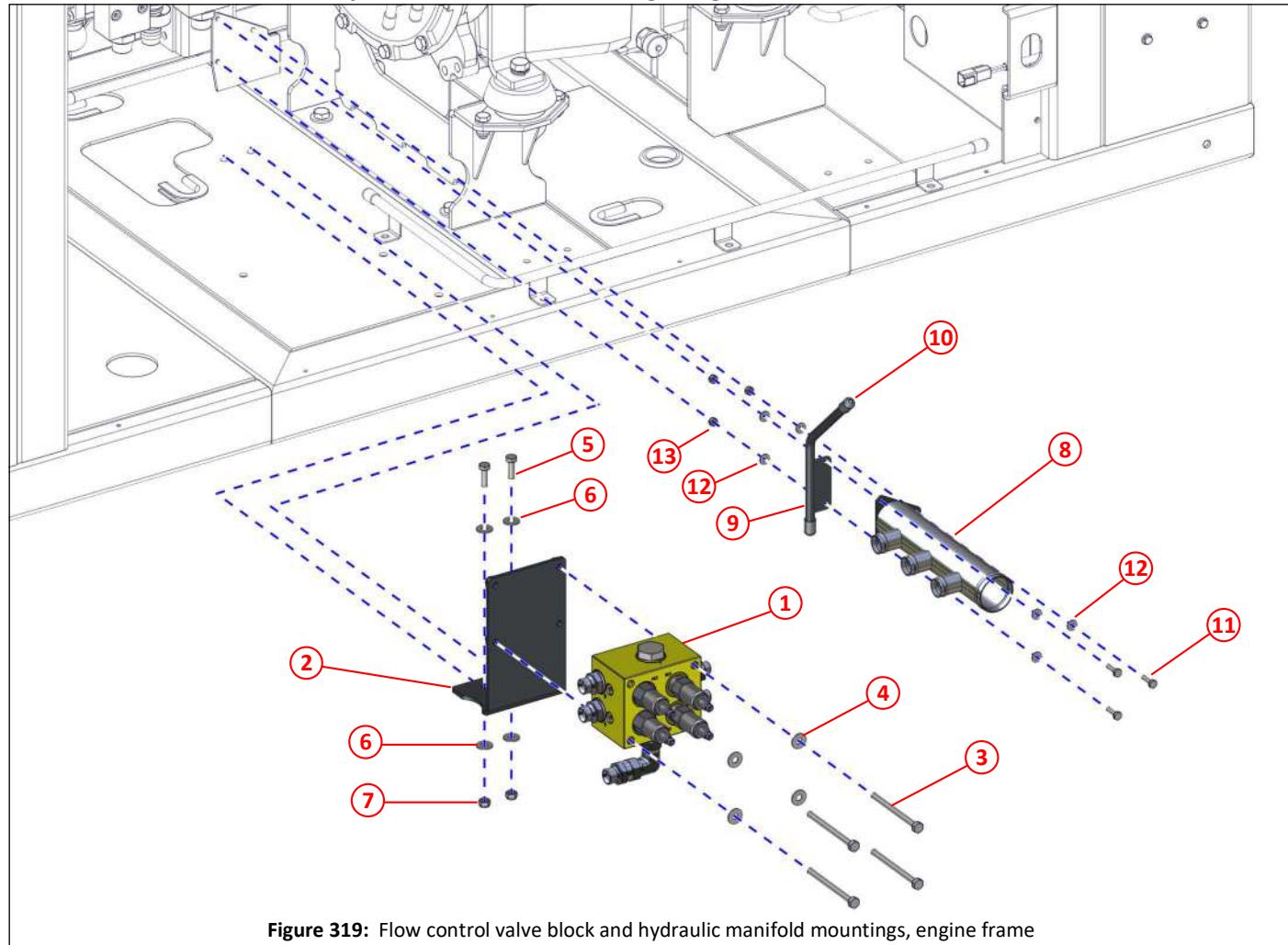
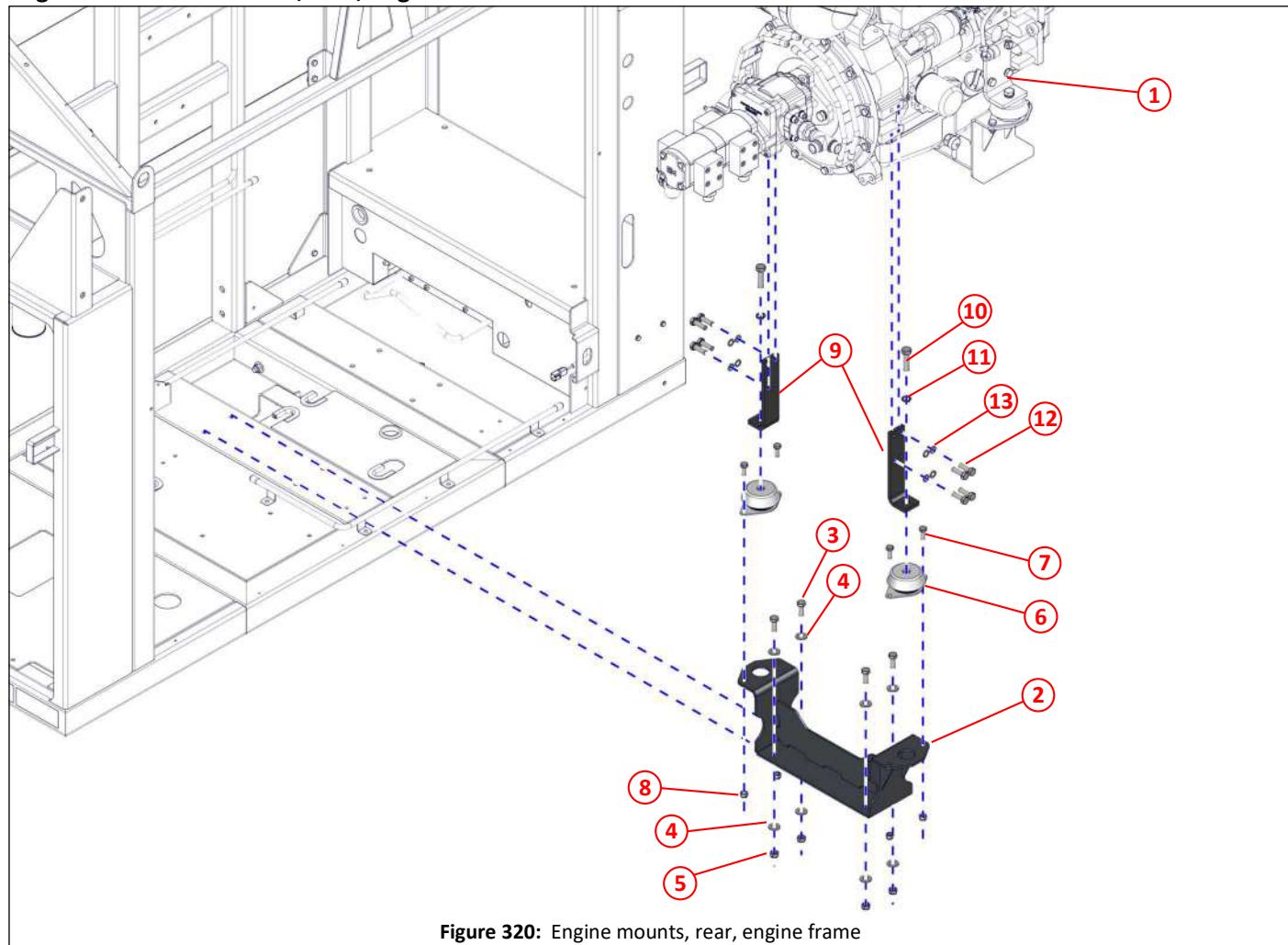


Figure 319: Flow control valve block and hydraulic manifold mountings, engine frame

Item	Part No	Qty	Description	
①	038513	1	Flow control valve block assembly	255
②	043123	1	Mounting bracket, flow control valve block	
③	011020	4	Bolt M8 x 100	
④	011092	4	Plain washer M8	
⑤	011011	2	Set screw M8 x 25	
⑥	011092	4	Plain washer M8	
⑦	011073	2	Nyloc nut M8	
⑧	043305	1	Manifold, hydraulic oil return	251
⑨	043362	1	Bracket, loom rail	
⑩	043065	2	Pipe cap, ø12	
⑪	011067	3	Set screw M6 x 20	
⑫	011090	6	Plain washer M6	
⑬	011071	3	Nyloc nut M6	

Engine cradle and mounts, rear, engine frame

Figure 320: Engine mounts, rear, engine frame

Item	Part No	Qty	Description	
①		1	Engine, Deutz TCD 3.6 L4	424
②	042810	1	Engine cradle, rear	424
③	011052	4	Set screw M12 X 30	
④	011096	8	Plain washer M12	
⑤	011077	4	Nyloc nut M12	
⑥	030724	2	Engine mount	425
⑦	011031	4	Set screw M10 x 25	
⑧	011075	4	Nyloc nut M10	
⑨	042811	2	Engine mounting, rear	426
⑩	011403	2	Bolt M14 x 50	
⑪	011106	2	Spring washer M14	
⑫	011053	8	Set screw M12 x 35	
⑬	011097	8	Spring washer M12	

Engine frame and subframe

Engine cradle and mounts, front, engine frame

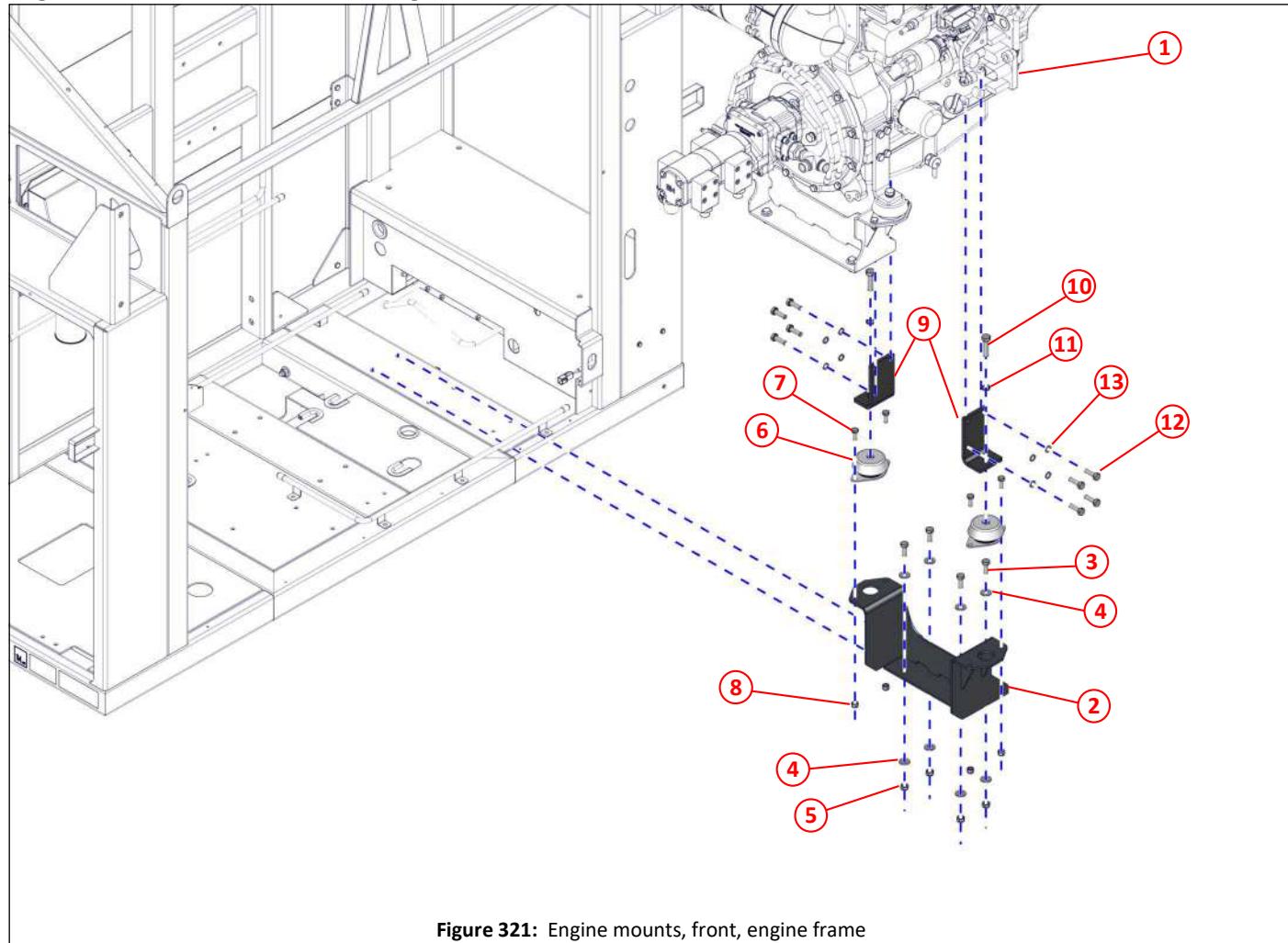
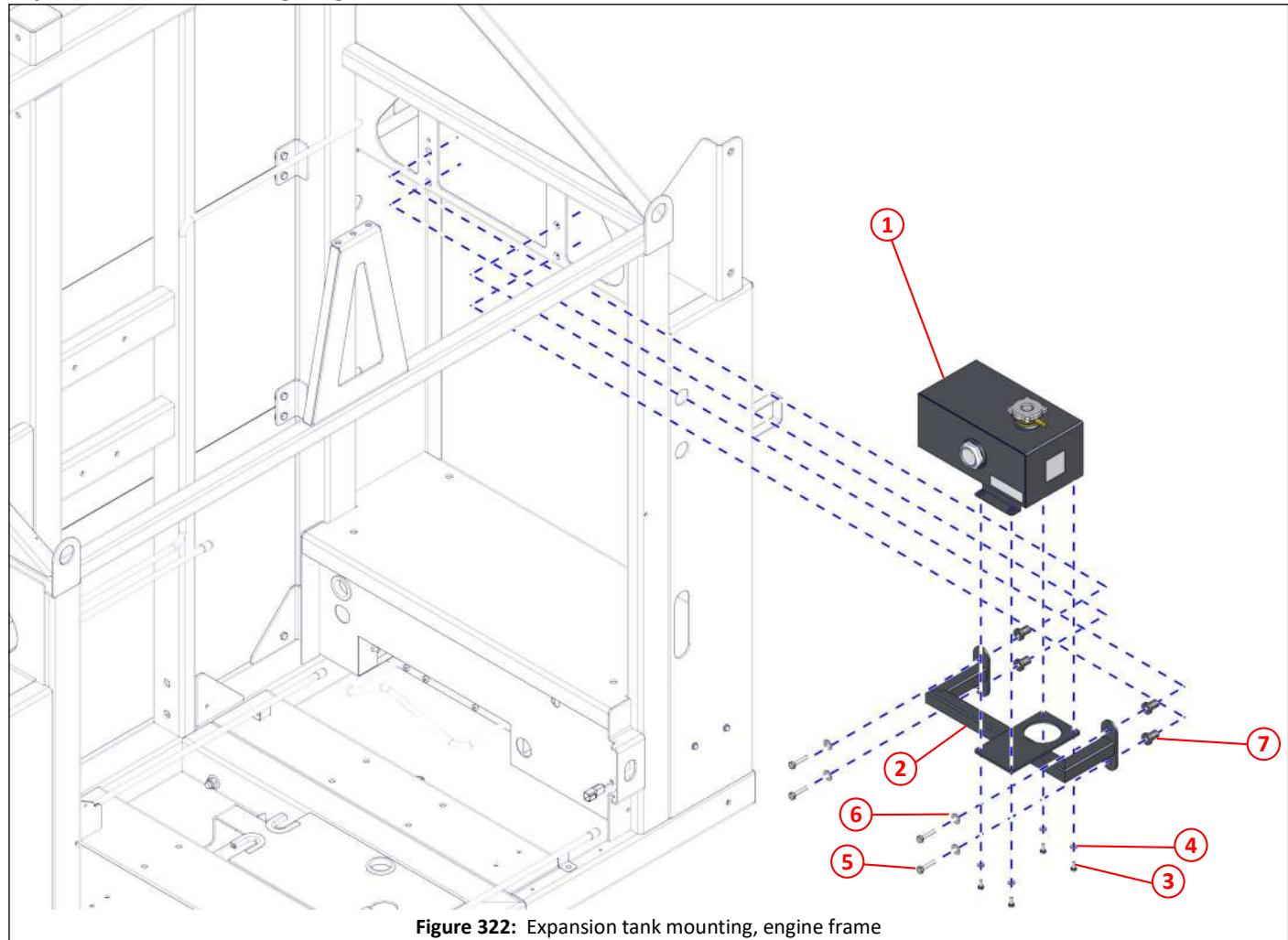


Figure 321: Engine mounts, front, engine frame

Item	Part No	Qty	Description	
①		1	Engine, Deutz TCD 3.6 L4	424
②	042809	1	Engine cradle, front	424
③	011052	4	Set screw M12 X 30	
④	011096	8	Plain washer M12	
⑤	011077	4	Nyloc nut M12	
⑥	030724	2	Engine mount	425
⑦	011031	4	Set screw M10 x 25	
⑧	011075	4	Nyloc nut M10	
⑨	042808	2	Engine mounting, front	426
⑩	011403	2	Bolt M14 x 50	
⑪	011106	2	Spring washer M14	
⑫	011053	8	Set screw M12 x 35	
⑬	011097	8	Spring washer M12	

Expansion tank mounting, engine frame

Figure 322: Expansion tank mounting, engine frame

Item	Part No	Qty	Description	
①	041936	1	Expansion tank	436
②	042989	1	Mounting bracket, expansion tank	436
③	011001	4	Set screw M6 x 16	
④	011090	4	Plain washer M6	
⑤	011013	4	Set screw M8 x 35	
⑥	011092	4	Plain washer M8	
⑦	039932	4	Anti-vibration fastener M8	

Engine frame and subframe

ECU cover mounting, engine frame

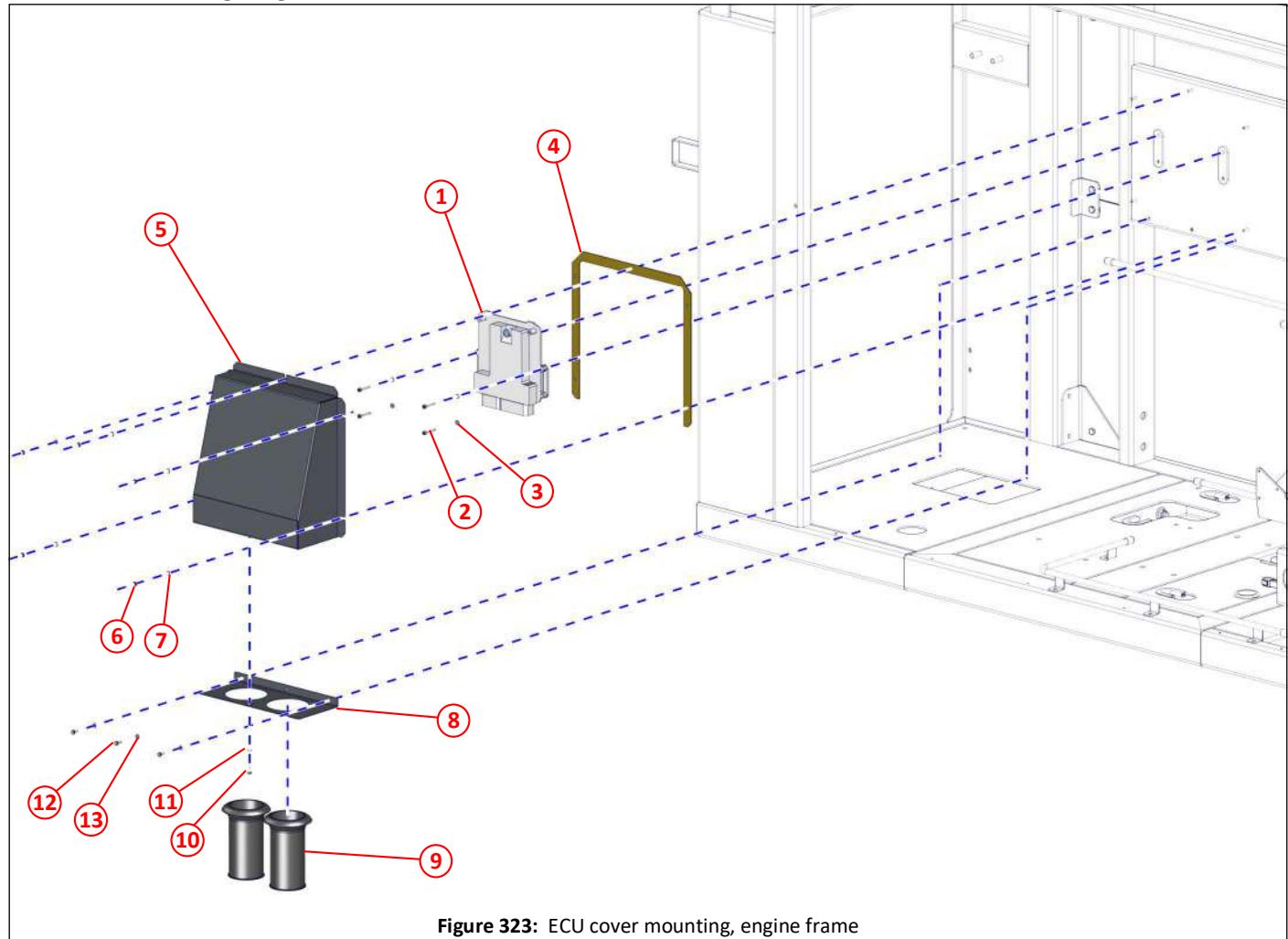
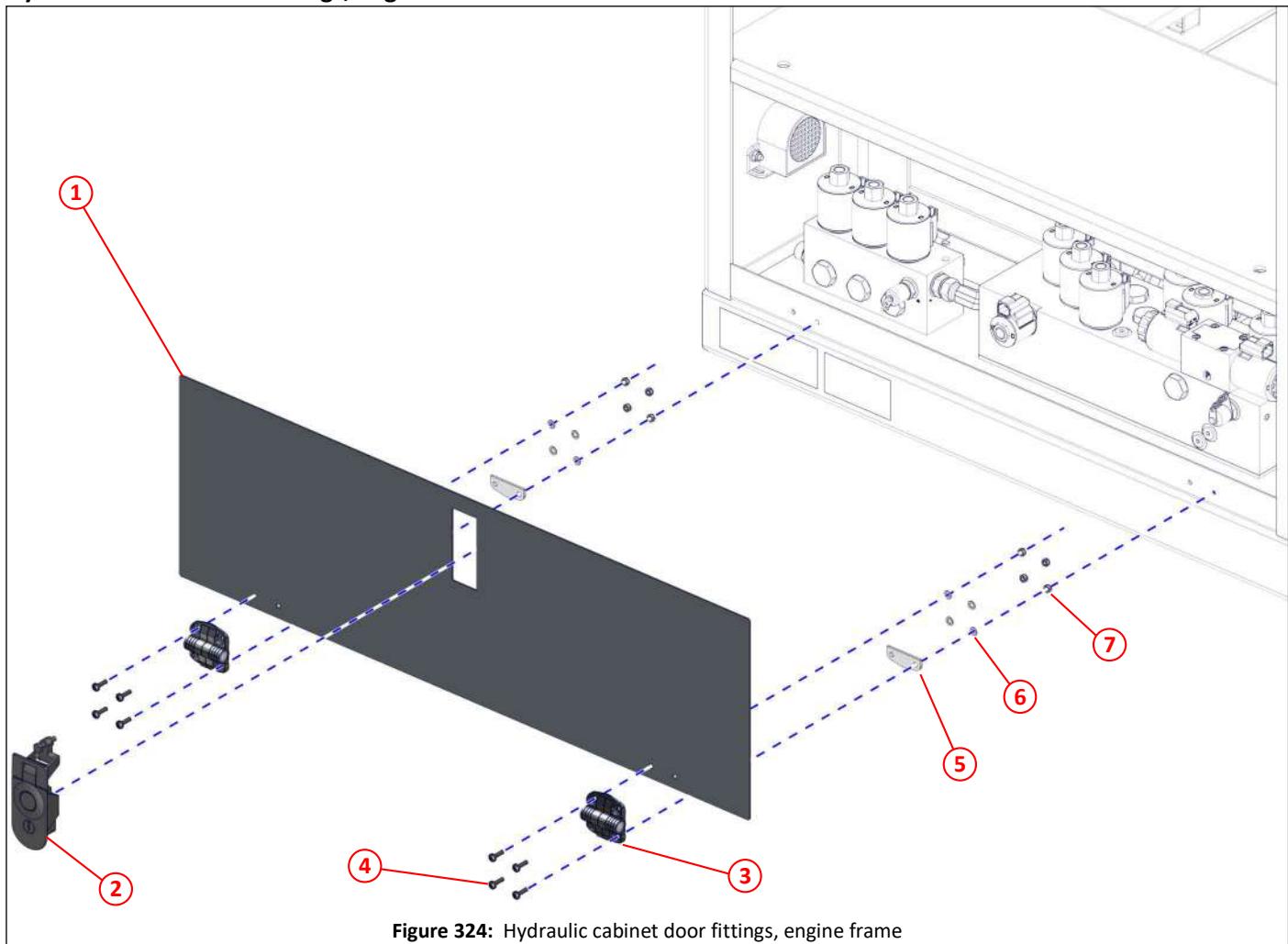


Figure 323: ECU cover mounting, engine frame

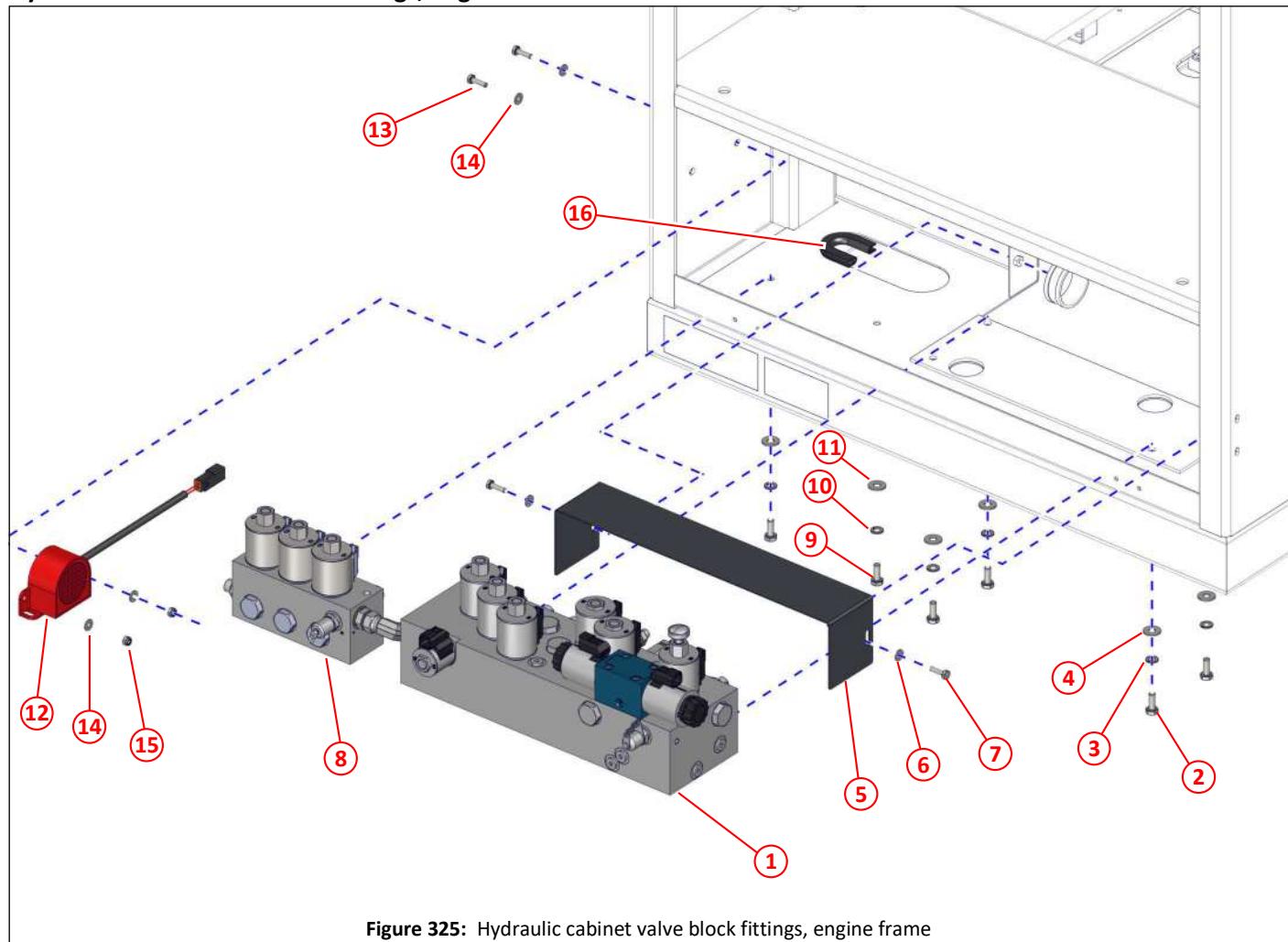
Item	Part No	Qty	Description	
①	044500 *	1	ECU	432
②	000118	4	Socket cap head screw M5 x 30	
③	000410	4	Plain washer M5	
④	042982	1	Gasket, ECU cover	
⑤	042981	1	Cover, ECU	
⑥	000155	5	Nyloc nut M5	
⑦	000410	5	Plain washer M5	
⑧	044302	1	Mount, panel sock	
⑨	034807	2	Panel sock	
⑩	000097	1	Bolt M5 x 12	
⑪	000410	1	Plain washer M5	
⑫	000097	3	Bolt M5 x 12	
⑬	000410	3	Plain washer M5	

*. The ECU will need to be matched to the serial number of the DEUTZ auxiliary engine of your vehicle.

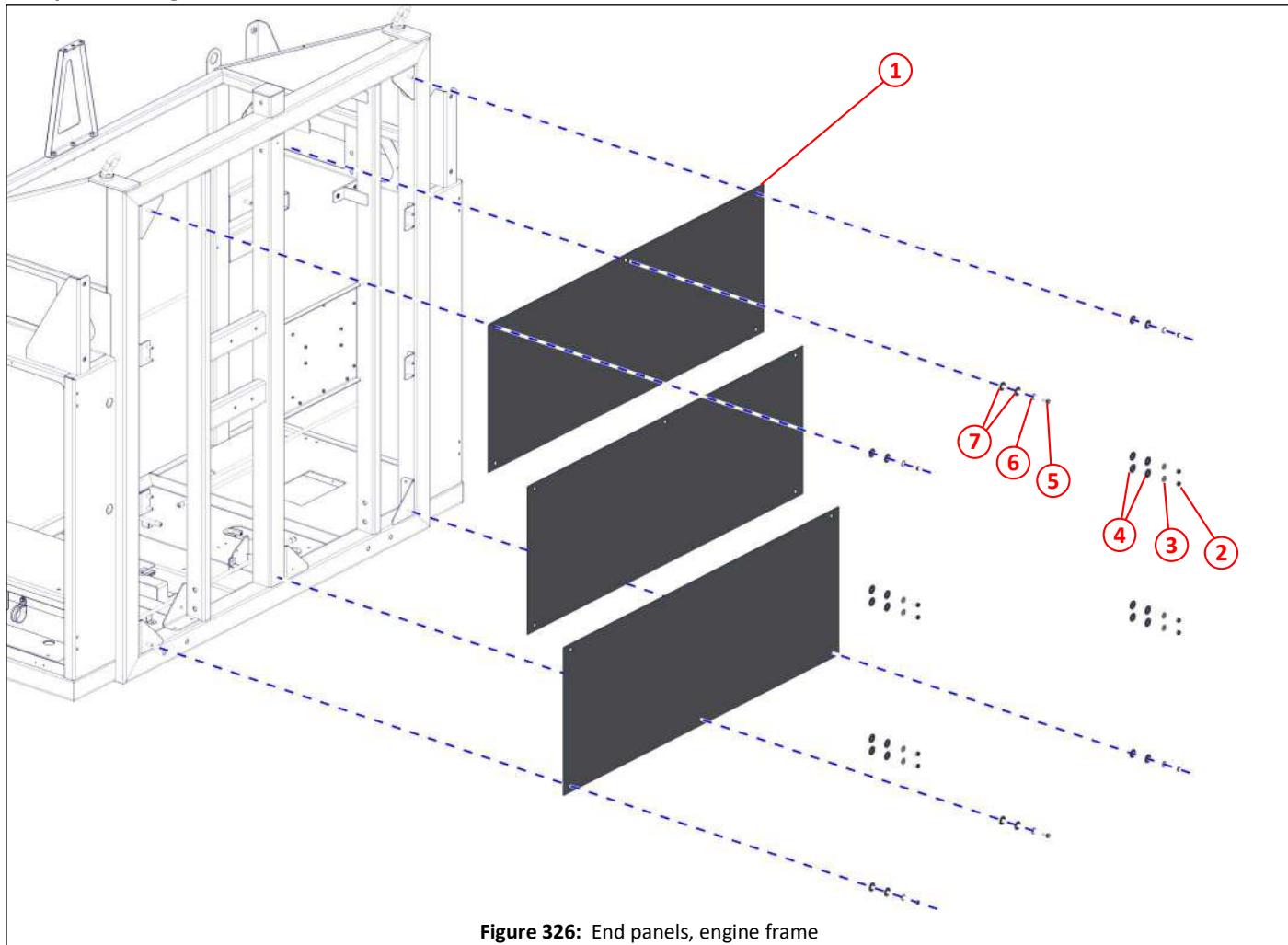
Hydraulic cabinet door fittings, engine frame

Figure 324: Hydraulic cabinet door fittings, engine frame

Item	Part No	Qty	Description
①	043078	1	Door, hydraulic cabinet
②	033634	1	Latch, sealed, locking
③	027193	2	Hinge
④	000234	8	Pan head Pozidrive screw M5 x 16, black
⑤	028320	2	Packer, hinge
⑥	000410	8	Plain washer M5
⑦	000155	8	Nyloc nut M5

Hydraulic cabinet valve block fittings, engine frame



Item	Part No	Qty	Description	
①	042615	1	Main valve block, 24v	262,263,265
①	044484	1	Main valve block, 12v	262,263,265
②	011010	4	Set screw M8 x 20	
③	011093	4	Spring washer M8	
④	011092	4	Plain washer M8	
⑤	034810	1	Pipe cover	
⑥	011067	2	Set screw M6 x 20	
⑦	011090	2	Plain washer M6	
⑧	042616	1	Options valve block, 24v	262,266,267
⑧	044486	1	Options valve block, 12v	262,266,267
⑨	011010	2	Set screw M8 x 20	
⑩	011093	2	Spring washer M8	
⑪	011092	2	Plain washer M8	
⑫	037666	1	Sounder, hopper and rear door operation	
⑬	011067	2	Set screw M6 x 20	
⑭	011090	4	Plain washer M6	
⑮	011071	2	Nyloc nut M6	
⑯	005073	As req	Titanfast edging MET106 to suit 3-5mm	

End panels, engine frame

Figure 326: End panels, engine frame

Item	Part No	Qty	Description
①	044867 *	3	End panel
NI	034799 *	1	End panel, for version with just single large end panel
②	011073	12	Nyloc nut M8
③	011092	12	Plain washer M8
④	028646	24	Packing washer
⑤	011010	2	Set screw M8 x 20
⑥	011092	2	Plain washer M8
⑦	028646	4	Packing washer

*. Early versions of M65T engine frame had a single large end panel.

Engine frame

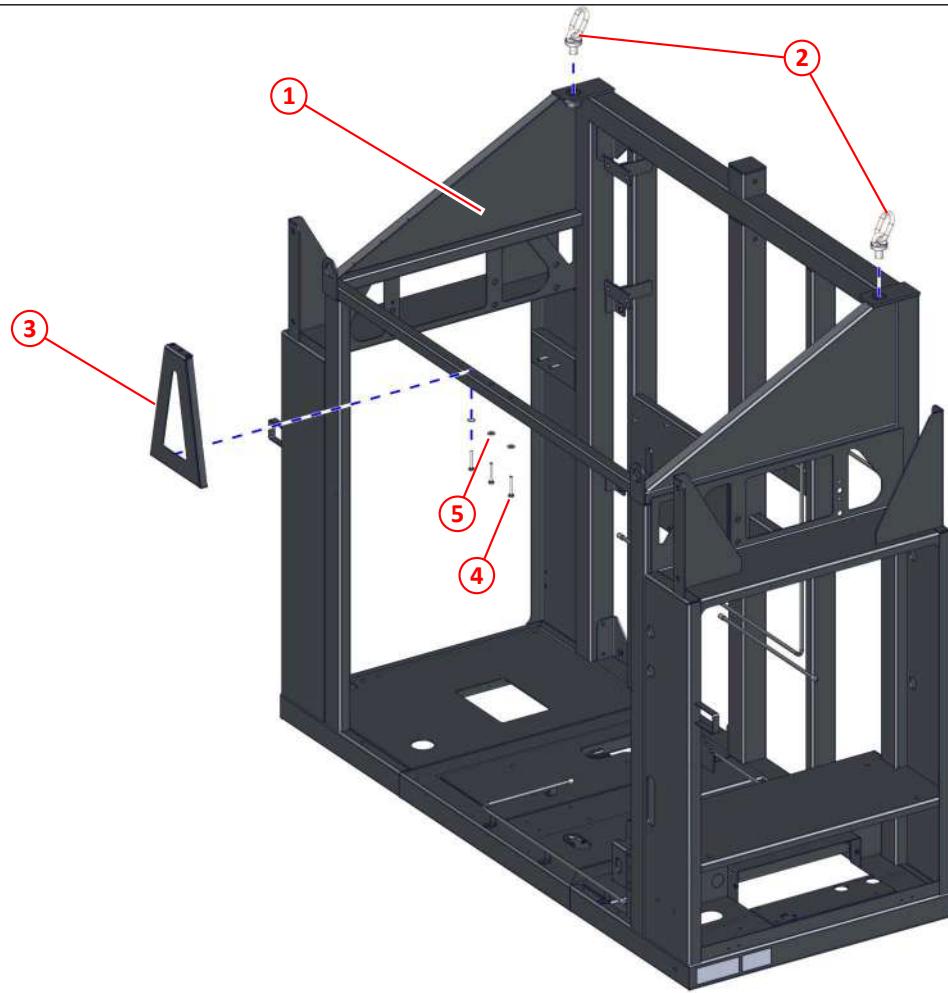
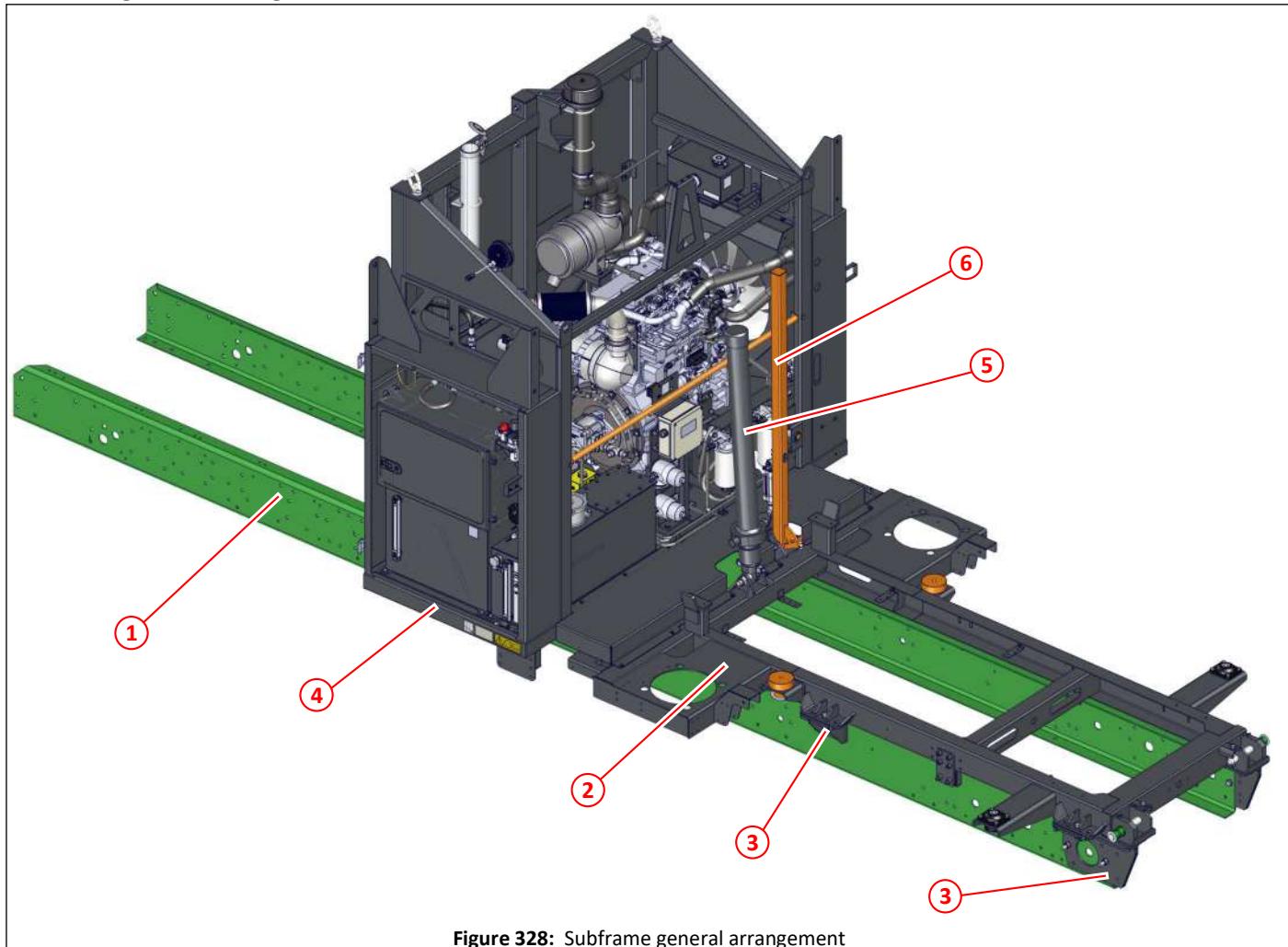


Figure 327: Engine frame

Item	Part No	Qty	Description	
①	042803	1	Engine frame	
②	035941	2	Eye bolt, linked, 1.6T	335
③	043153	1	Support, roof panel	336
④	000009	3	Bolt M8 X 55	
⑤	011092	3	Plain washer M8	
NI	005073	As req	Titanfast edging MET106 to suit 3-5mm	
NI	043065	As req	Pipe cap, ø12	

Subframe general arrangement

Figure 328: Subframe general arrangement

Item	Part No	Qty	Description	
①			Chassis rails, shown for visualisation only	
②	042942	1	Subframe	
③			Mounting brackets, chassis	373
④			Engine frame assembly	335
⑤	024249	1	Ram, dual acting, hopper lift	155,271
⑥	043391	1	Hopper safety prop	316,366,368

Subframe

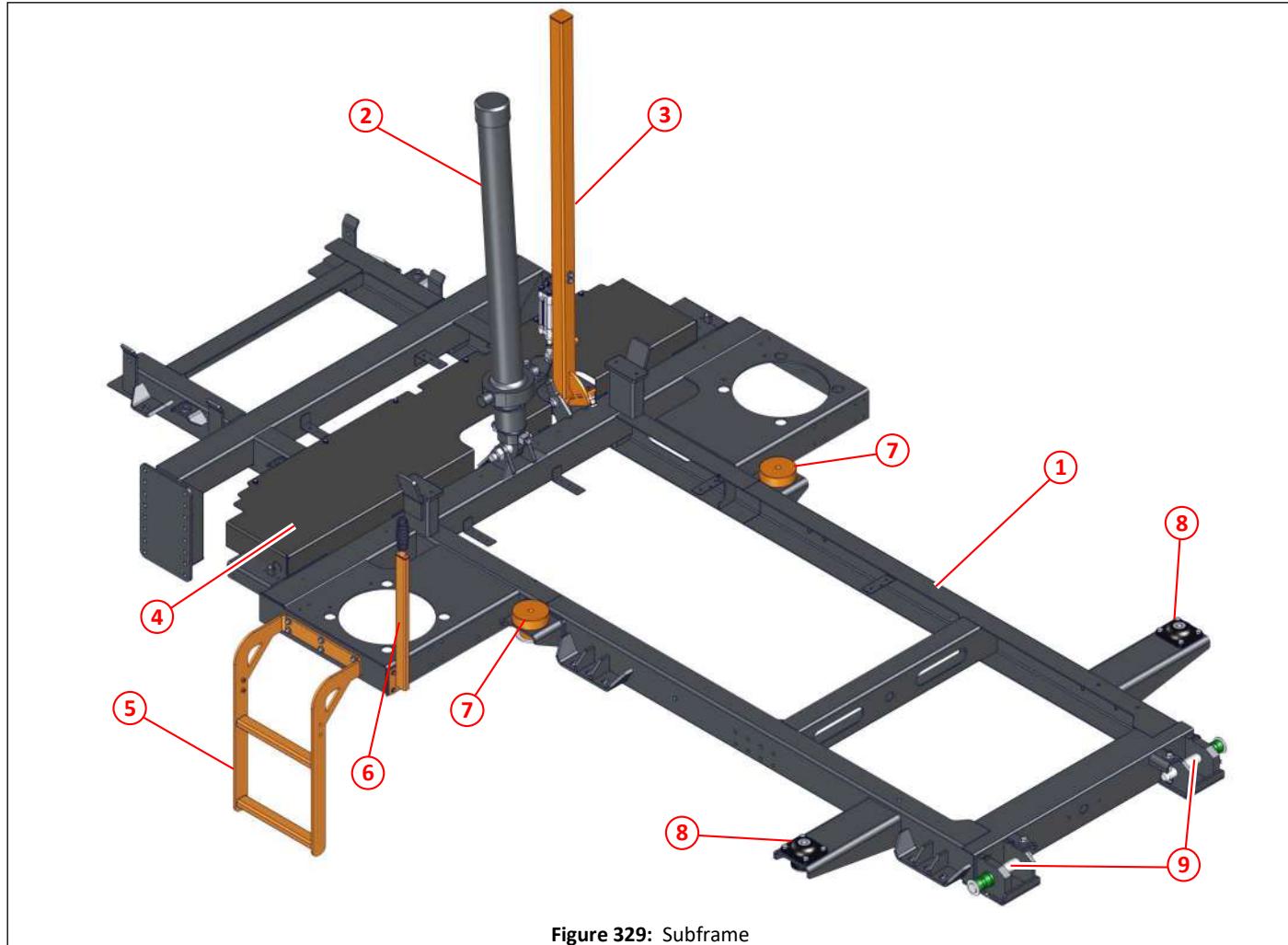
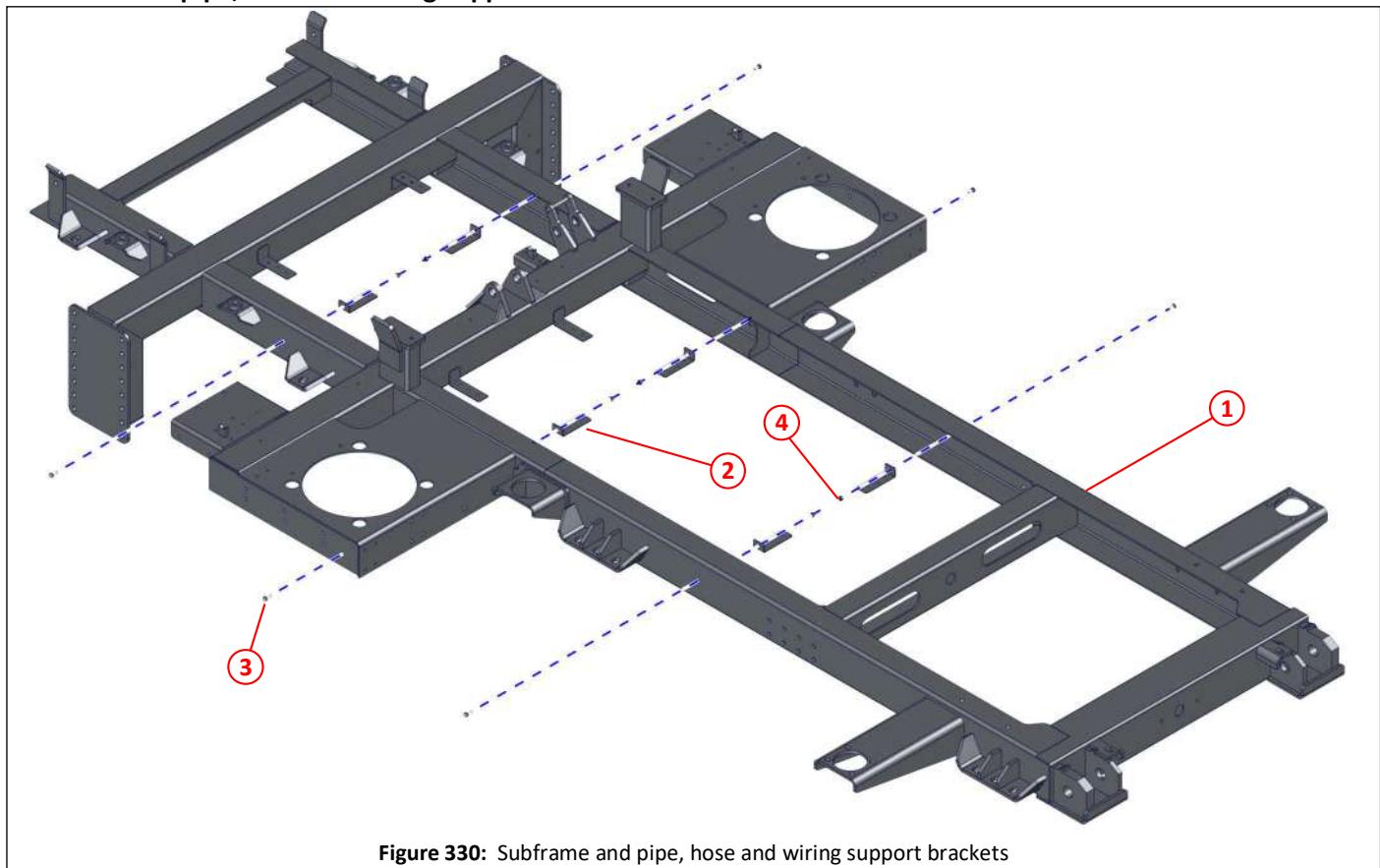


Figure 329: Subframe

Item	Part No	Qty	Description	
①	042942	1	Subframe	365,367,372
②	024249	1	Ram, dual acting, hopper lift	155,271,365
③	043391	1	Hopper safety prop	365
④	045289	1	Floor plate	369
⑤	034766	1	Access ladder	371
⑥	043608	1	Grab handle	371
⑦	044509	2	Bush, orange, water tank	199
⑧	033838	2	Mounting, anti-vibration, MS243/5 (HD type), water tank	199
⑨			Hopper pins and bushes	154

Subframe and pipe, hose and wiring support brackets


Item	Part No	Qty	Description	
①	042942	1	Subframe	365,366,372
②	028862	6	Bracket	
③	011001	6	Set screw M6 x 16	
④	011071	6	Nyloc nut M6	

Hopper safety prop

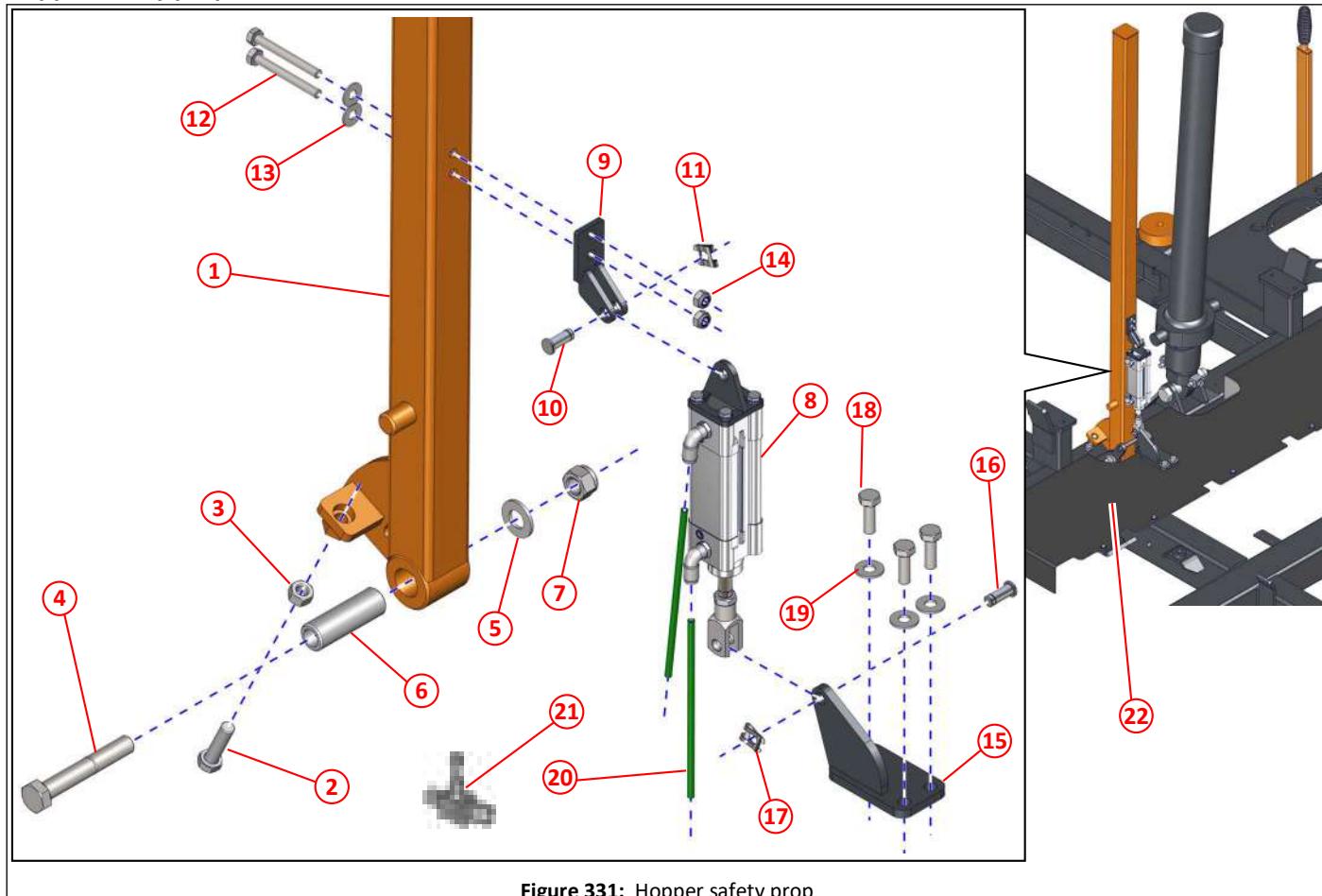
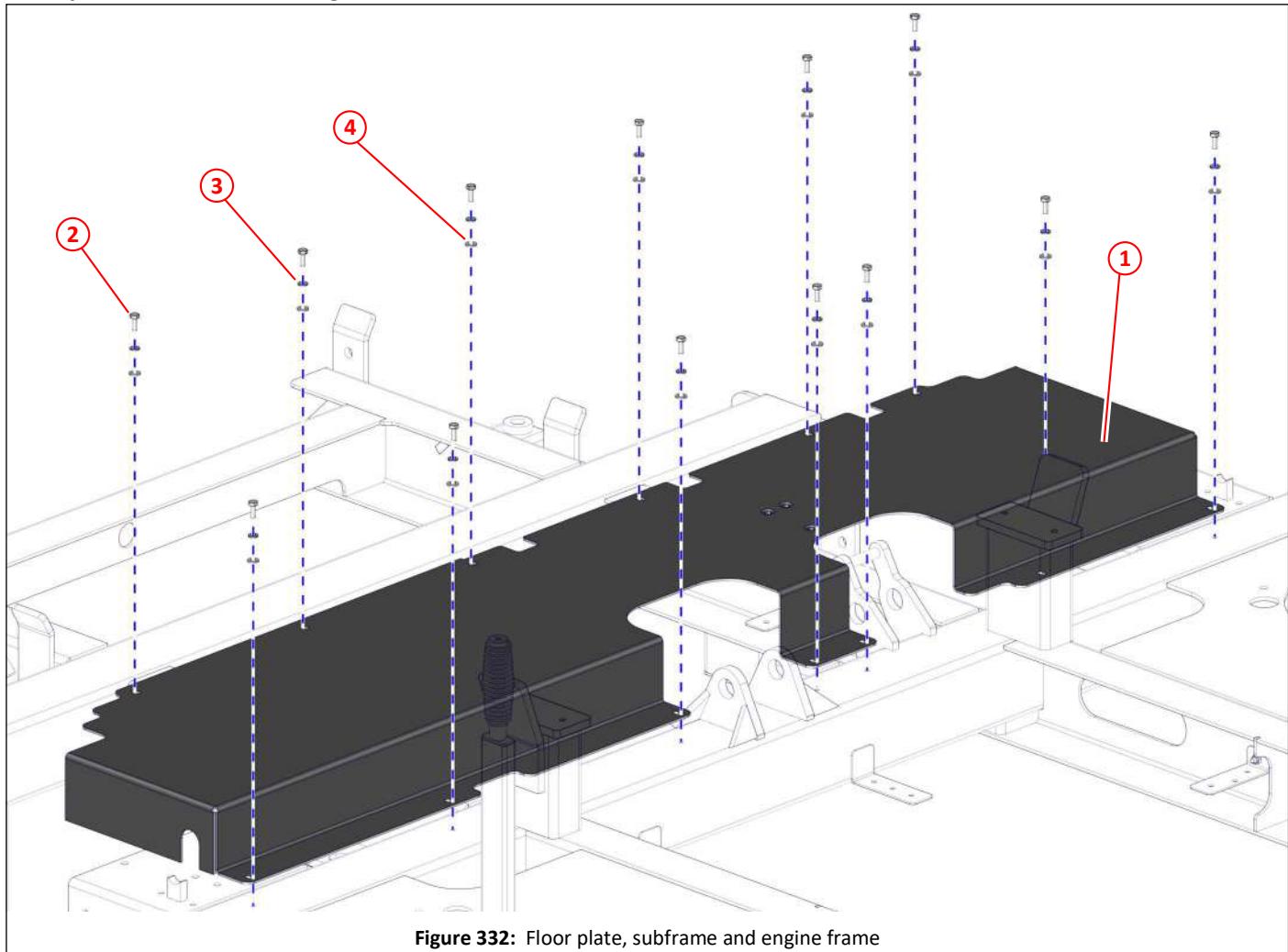


Figure 331: Hopper safety prop

Item	Part No	Qty	Description	
①	043391	1	Hopper safety prop	316,365,366
②	011054	1	Set screw M12 x 45	
③	011076	1	Full nut M12	
④	044483	1	Special bolt M16 x 95 (8.8 grade)	
⑤	011135	1	Plain washer M16	
⑥	036240	1	Spacer, hopper prop	
⑦	011060	1	Nyloc nut M16	
⑧	043175	1	Pneumatic cylinder, prop kicker	316
⑨	043390	1	Bracket, prop kicker	
⑩	026163	1	Clevis pin	
⑪	026164	1	Retaining clip	
⑫	011018	2	Bolt M8 x 70	
⑬	011092	2	Plain washer M8	
⑭	011073	2	Nyloc nut M8	
⑮	043364	1	Floor mount, prop kicker	
⑯	026163	1	Clevis pin	
⑰	026164	1	Retaining clip	
⑱	011032	3	Set screw M10 x 30	
⑲	011094	3	Plain washer M10	
⑳	024650	As req	Air pipe, green, ø6	
㉑	006062	2	In-line flow control valve (Mounted on subframe below hopper prop)	
㉒	045289	1	Floor plate	

Floor plate, subframe and engine frame


Item	Part No	Qty	Description	
①	045289	1	Floor plate	366
②	011001	13	Set screw M6 x 16	
③	011091	13	Spring washer M6	
④	011090	13	Plain washer M6	

Subframe hopper lift ram mounting

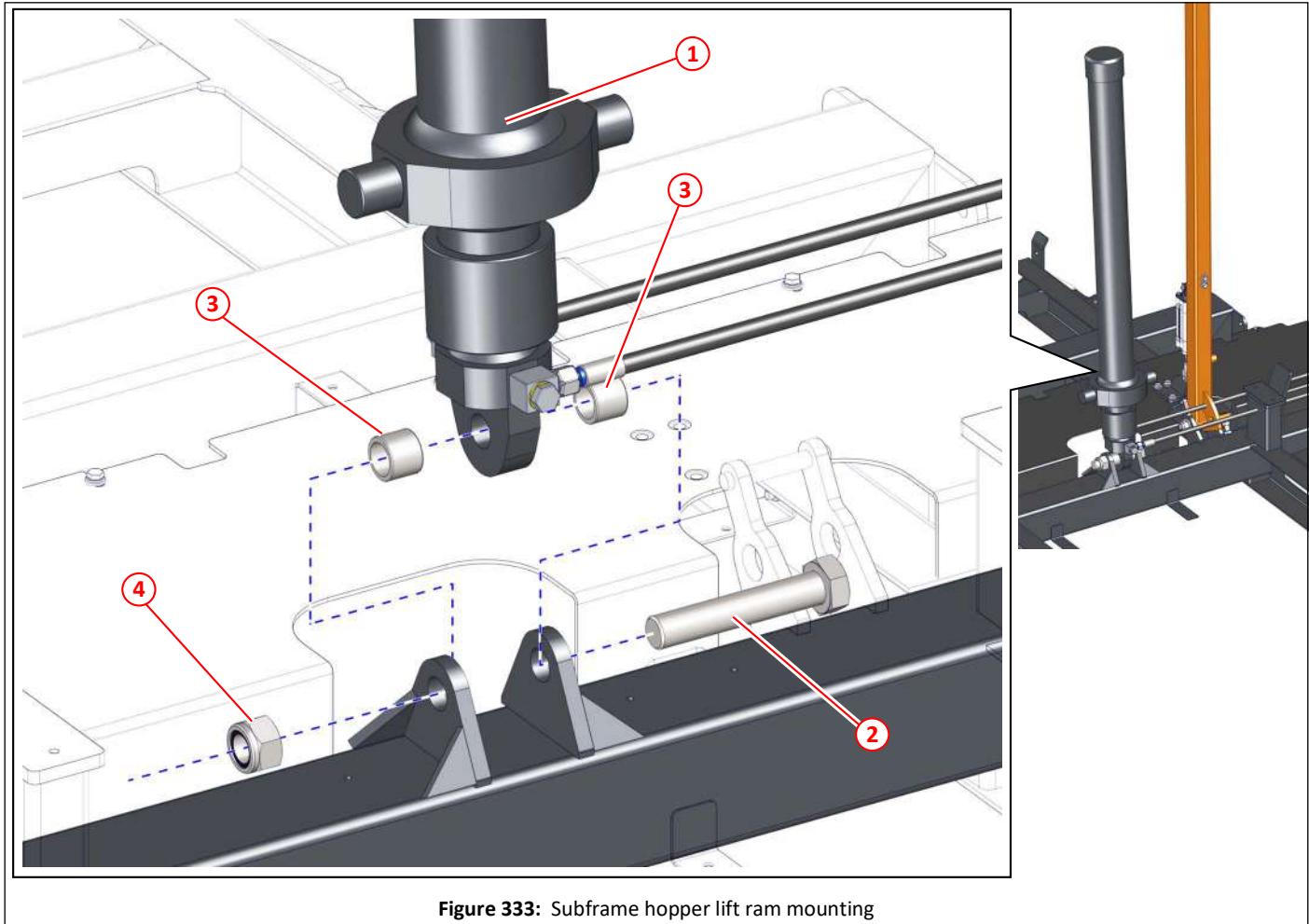
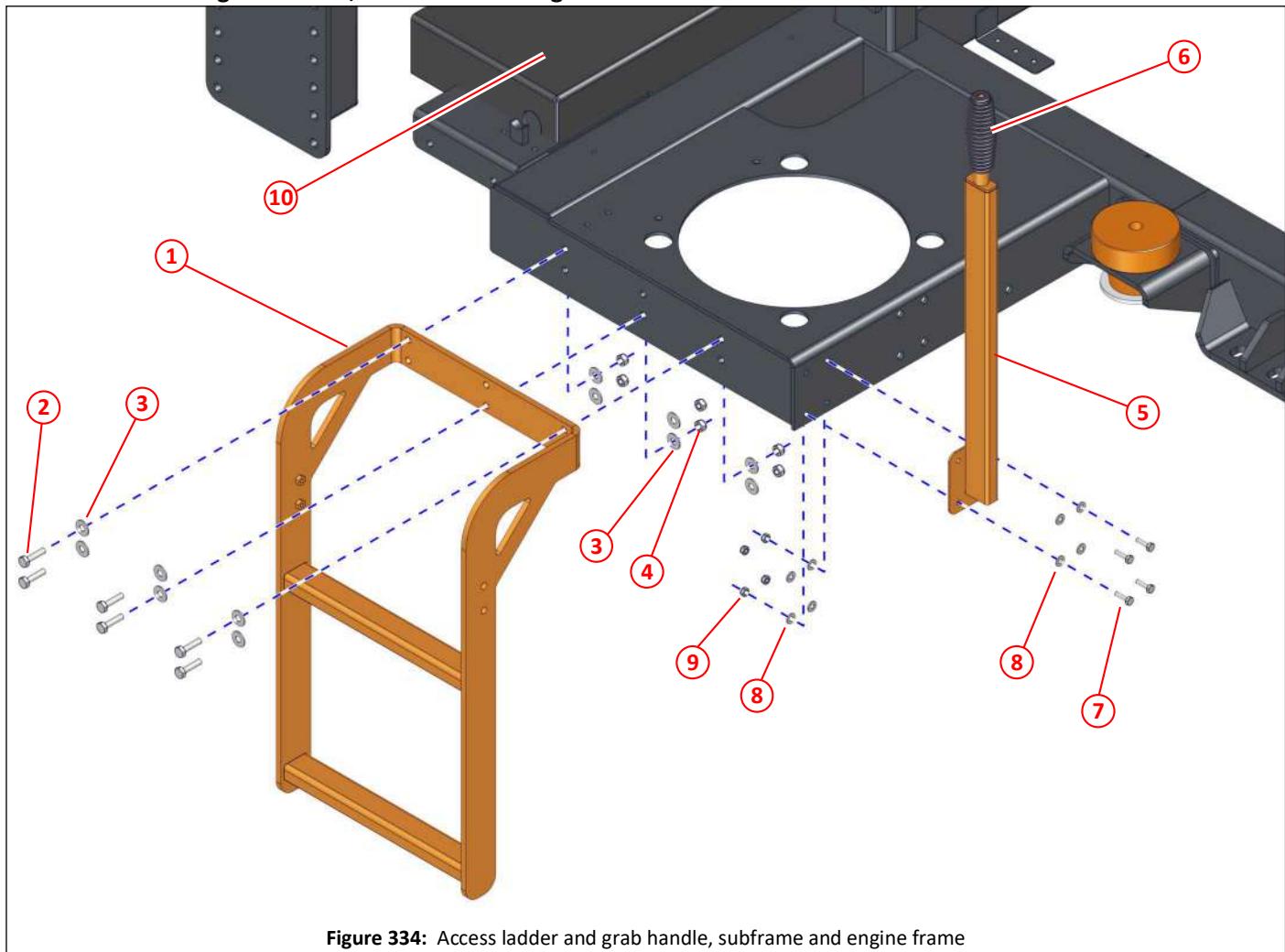


Figure 333: Subframe hopper lift ram mounting

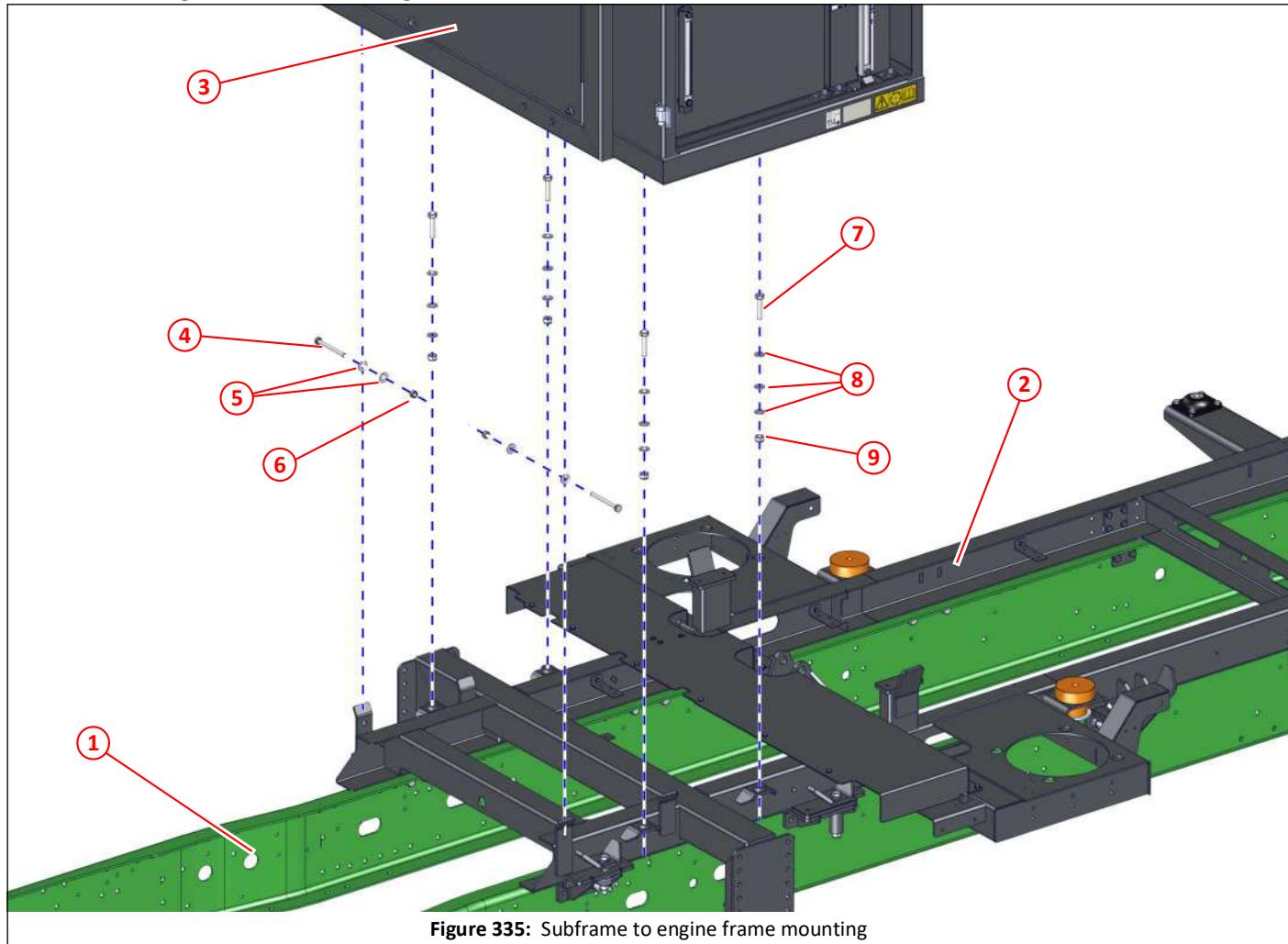
Item	Part No	Qty	Description	
①	024249	1	Ram, dual acting, hopper lift	155,271,365,366
②	000241	1	Bolt M24 x 130	
③	013714	2	Spacer	
④	000008	1	Nyloc nut M24	

Access ladder and grab handle, subframe and engine frame

Figure 334: Access ladder and grab handle, subframe and engine frame

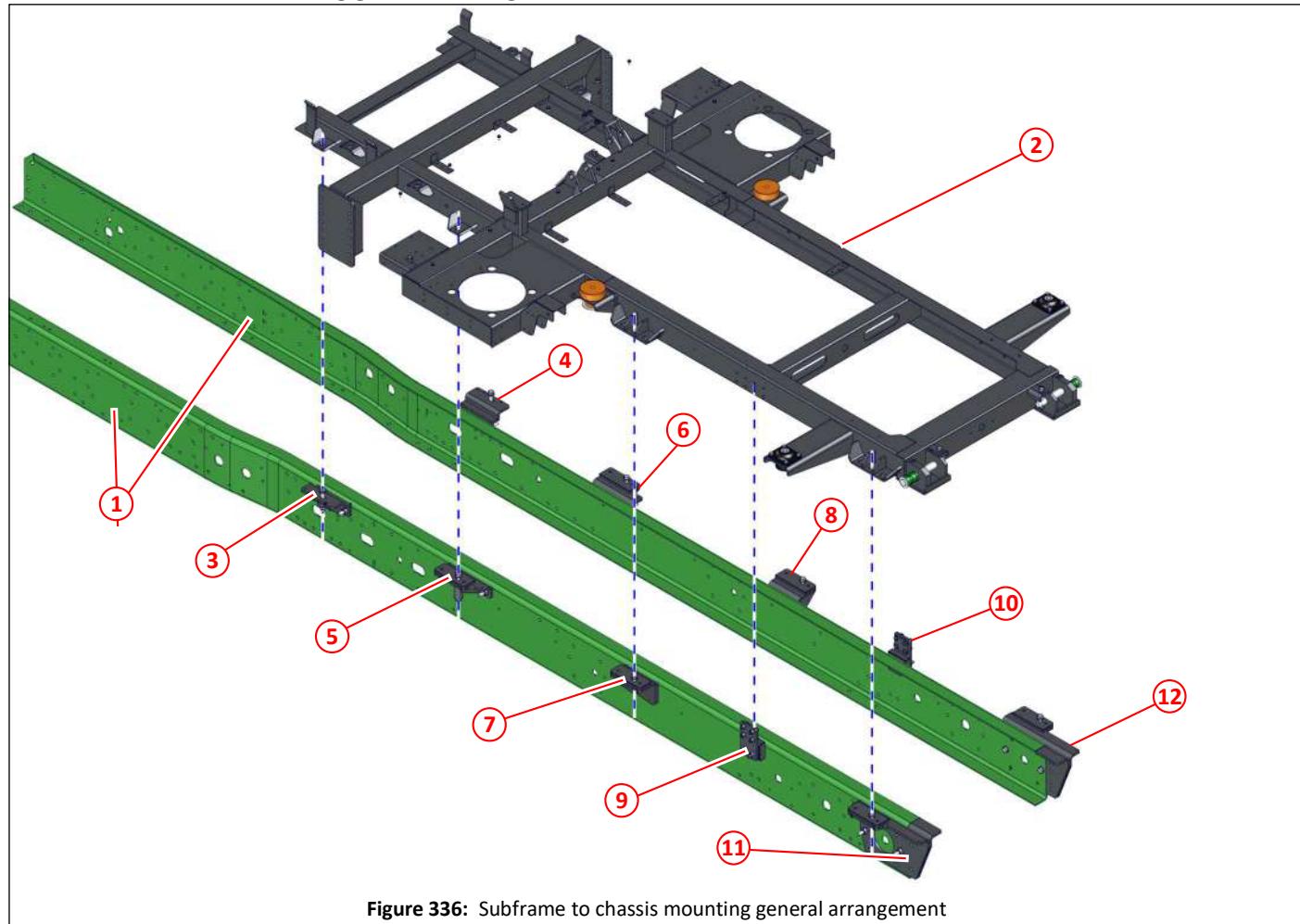
Item	Part No	Qty	Description	
①	034766	1	Access ladder, subframe and engine frame	366
②	011012	6	Set screw M8 x 30	
③	011092	12	Plain washer M8	
④	011073	6	Nyloc nut M8	
⑤	043608	1	Grab handle	
⑥	039680	1	Handle grip	
⑦	011067	4	Set screw M6 x 20	
⑧	011090	8	Plain washer M8	
⑨	011071	4	Nyloc nut M6	
⑩	045289	1	Floor plate	369

 Please note that the access ladder and grab handle is usually mounted on the driver side of the sweeper.

Subframe to engine frame mounting



Item	Part No	Qty	Description	
①			Chassis rails, shown for visualisation only	
②	042942	1	Subframe	365,366,367,372
③			Engine frame assembly	335
④	011064	2	Bolt M12 x 110	
⑤	011096	4	Plain washer M12	
⑥	011077	2	Nyloc nut M12	
⑦	000204	4	Set bolt M14 x 60	
⑧	000073	12	Plain washer M14	
⑨	000164	4	Nyloc nut M14	

Subframe to chassis mounting general arrangement

Figure 336: Subframe to chassis mounting general arrangement

Item	Part No	Qty	Description	
①			Chassis rails, shown for visualisation only	
②	042942	1	Subframe	365,366,367,372
③			Chassis mounting bracket, position 1, left hand side	
④			Chassis mounting bracket, position 1, right hand side	
⑤			Chassis mounting bracket, position 2, left hand side	
⑥			Chassis mounting bracket, position 2, right hand side	
⑦			Chassis mounting bracket, position 3, left hand side	
⑧			Chassis mounting bracket, position 3, right hand side	
⑨			Chassis lateral support, left hand side	
⑩			Chassis lateral support, right hand side	
⑪			Chassis mounting bracket, position 4, left hand side	
⑫			Chassis mounting bracket, position 4, right hand side	

NI			Subframe to chassis mountings, DAF	374
NI			Subframe to chassis mountings, SCANIA	381
NI			Subframe to chassis mountings, VOLVO	388
NI			Subframe to chassis mountings, IVECO	395
NI			Subframe to chassis mountings, MERCEDES	402
NI			Subframe to chassis mountings, MAN 18.290	409
NI			Subframe to chassis mountings, Freightliner M2 106	416

Always contact Scarab Parts Department when ordering mounting brackets with your sweepers Works No.

Subframe to chassis mountings, DAF

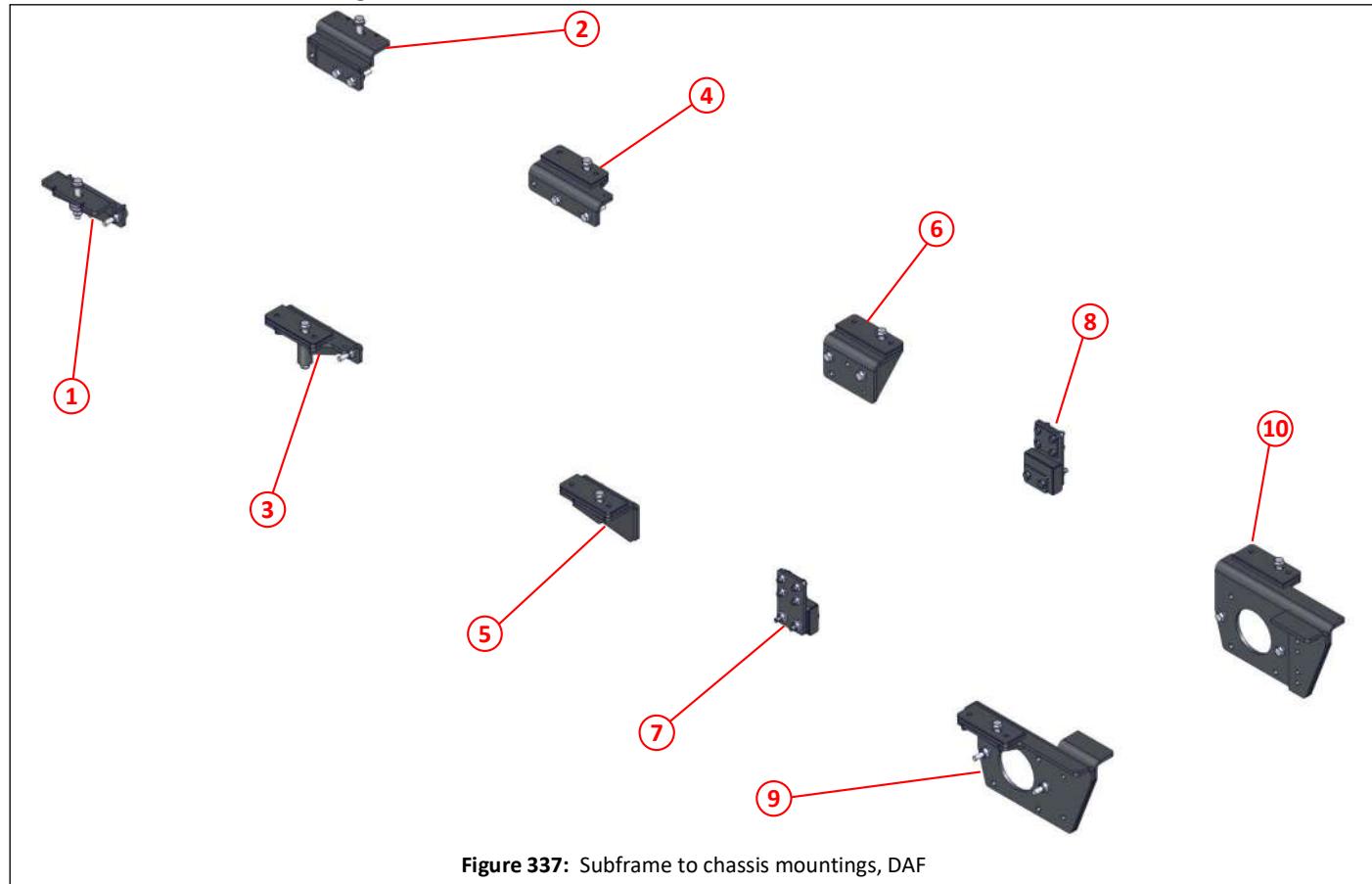
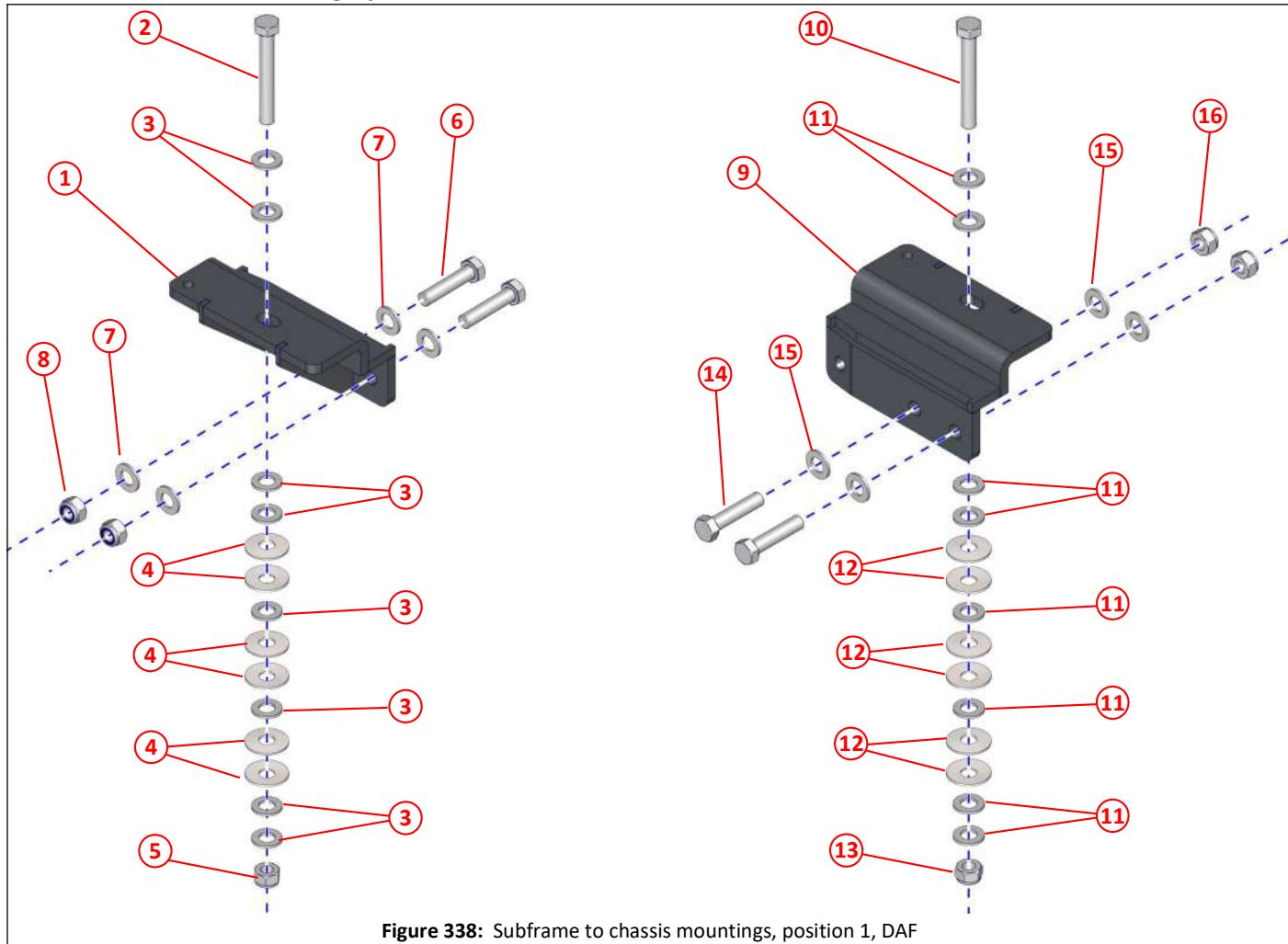


Figure 337: Subframe to chassis mountings, DAF

Item	Part No	Qty	Description	
①	043313	1	Chassis mounting bracket, position 1, left hand side, DAF LF55 E6	373,375
②	043314	1	Chassis mounting bracket, position 1, right hand side, DAF LF55 E6	373,375
③	043315	1	Chassis mounting bracket, position 2, left hand side, DAF LF55 E6	373,376
④	043316	1	Chassis mounting bracket, position 2, right hand side, DAF LF55 E6	373,376
⑤	043317	1	Chassis mounting bracket, position 3, left hand side, DAF LF55 E6	373,377
⑥	043318	1	Chassis mounting bracket, position 3, right hand side, DAF LF55 E6	373,377
⑦		1	Chassis lateral support, left hand side	373,386
⑧		1	Chassis lateral support, right hand side	373,387
⑨	043319	1	Chassis mounting bracket, position 4, left hand side, DAF LF55 E6	373,378
⑩	043120	1	Chassis mounting bracket, position 4, right hand side, DAF LF55 E6	373,378

i Please note that fixings shown are 'standard' and your actual sweeper may have different bolts, nuts and washers etc. than what is depicted. Quantities may also vary.
The chassis mounting brackets shown are for specific manufacturer's chassis.

Please always contact Scarab Parts Department when needing to order mounting brackets and fixings with your sweepers Works No. to ensure we match what was originally supplied.

Subframe to chassis mountings, position 1, DAF

Figure 338: Subframe to chassis mountings, position 1, DAF

Item	Part No	Qty	Description	
①	043313	1	Bracket, chassis mounting, position 1, left hand side, DAF LF55 E6	373,374
②	000102	1	Bolt M14 x 100	
③	000073	8	Plain washer M14	
④	036824	6	Spring, disc	
⑤	000164	1	Nyloc nut M14	
⑥	000204	2	Set bolt M14 x 60	
⑦	000073	4	Plain washer M14	
⑧	000164	2	Nyloc nut M14	
⑨	043314	1	Bracket, chassis mounting, position 1, right hand side, DAF LF55 E6	373,374
⑩	000102	1	Bolt M14 x 100	
⑪	000073	8	Plain washer M14	
⑫	036824	6	Spring, disc	
⑬	000164	1	Nyloc nut M14	
⑭	000204	2	Set bolt M14 x 60	
⑮	000073	4	Plain washer M14	
⑯	000164	2	Nyloc nut M14	

Subframe to chassis mountings, position 2, DAF

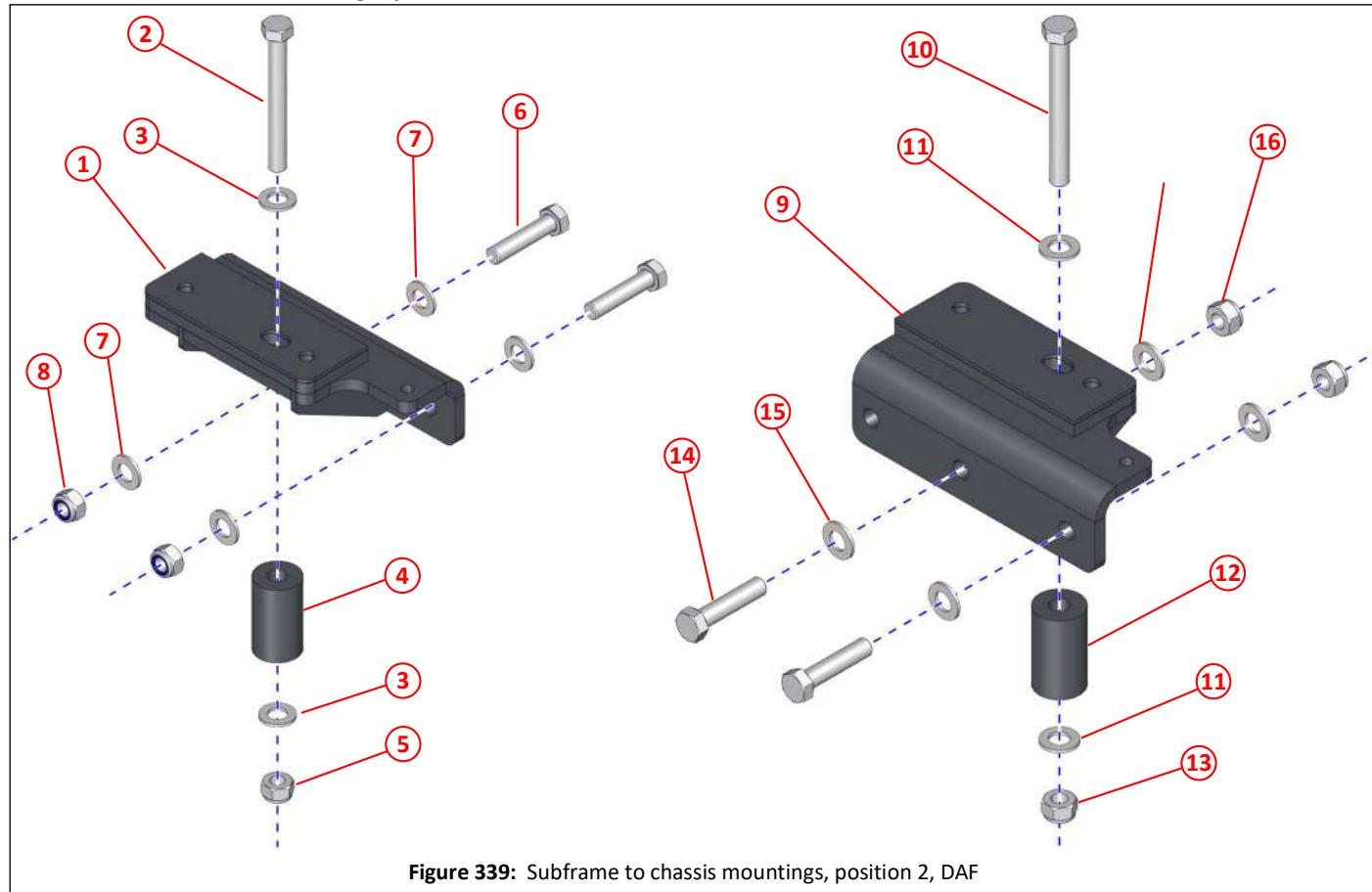
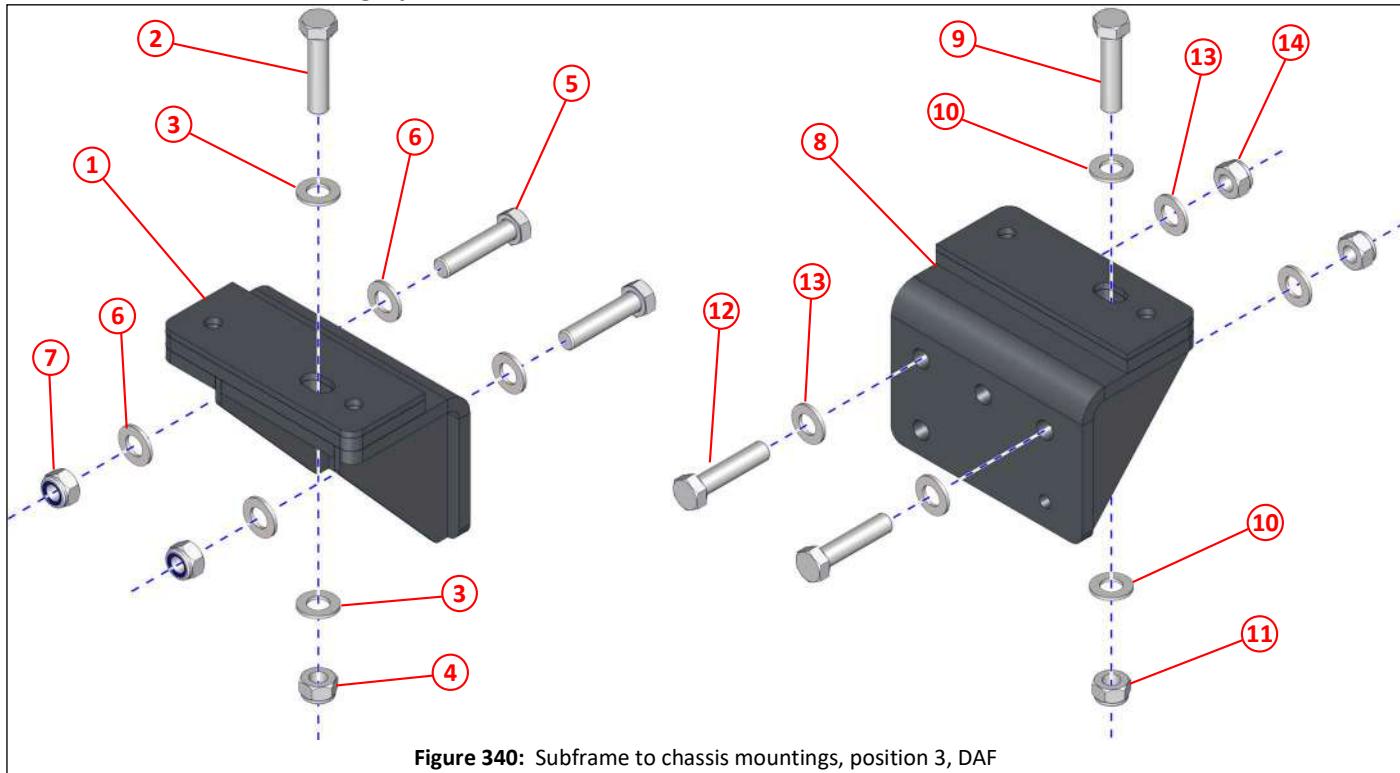


Figure 339: Subframe to chassis mountings, position 2, DAF

Item	Part No	Qty	Description	
①	043315	1	Bracket, chassis mounting, position 2, left hand side, DAF LF55 E6	373,374
②	000163	1	Bolt M14 x 120	
③	000073	2	Plain washer M14	
④	034909	1	Spacer ø15 x ø38 x 65	
⑤	000164	1	Nyloc nut M14	
⑥	000204	2	Set bolt M14 x 60	
⑦	000073	4	Plain washer M14	
⑧	000164	2	Nyloc nut M14	
⑨	043316	1	Bracket, chassis mounting, position 2, right hand side, DAF LF55 E6	373,374
⑩	000163	1	Bolt M14 x 120	
⑪	000073	2	Plain washer M14	
⑫	034909	1	Spacer ø15 x ø38 x 65	
⑬	000164	1	Nyloc nut M14	
⑭	000204	2	Set bolt M14 x 60	
⑮	000073	4	Plain washer M14	
⑯	000164	2	Nyloc nut M14	

Subframe to chassis mountings, position 3, DAF

Figure 340: Subframe to chassis mountings, position 3, DAF

Item	Part No	Qty	Description	
①	043317	1	Bracket, chassis mounting, position 3, left hand side, DAF LF55 E6	373,374
②	000204	1	Bolt M14 x 60	
③	000073	2	Plain washer M14	
④	000164	1	Nyloc nut M14	
⑤	000204	2	Bolt M14 x 60	
⑥	000073	4	Plain washer M14	
⑦	000164	2	Nyloc nut M14	
⑧	043318	1	Bracket, chassis mounting, position 3, right hand side, DAF LF55 E6	373,374
⑨	000204	1	Bolt M14 x 60	
⑩	000073	2	Plain washer M14	
⑪	000164	1	Nyloc nut M14	
⑫	000204	2	Bolt M14 x 60	
⑬	000073	4	Plain washer M14	
⑭	000164	2	Nyloc nut M14	

Subframe to chassis mountings, position 4, DAF

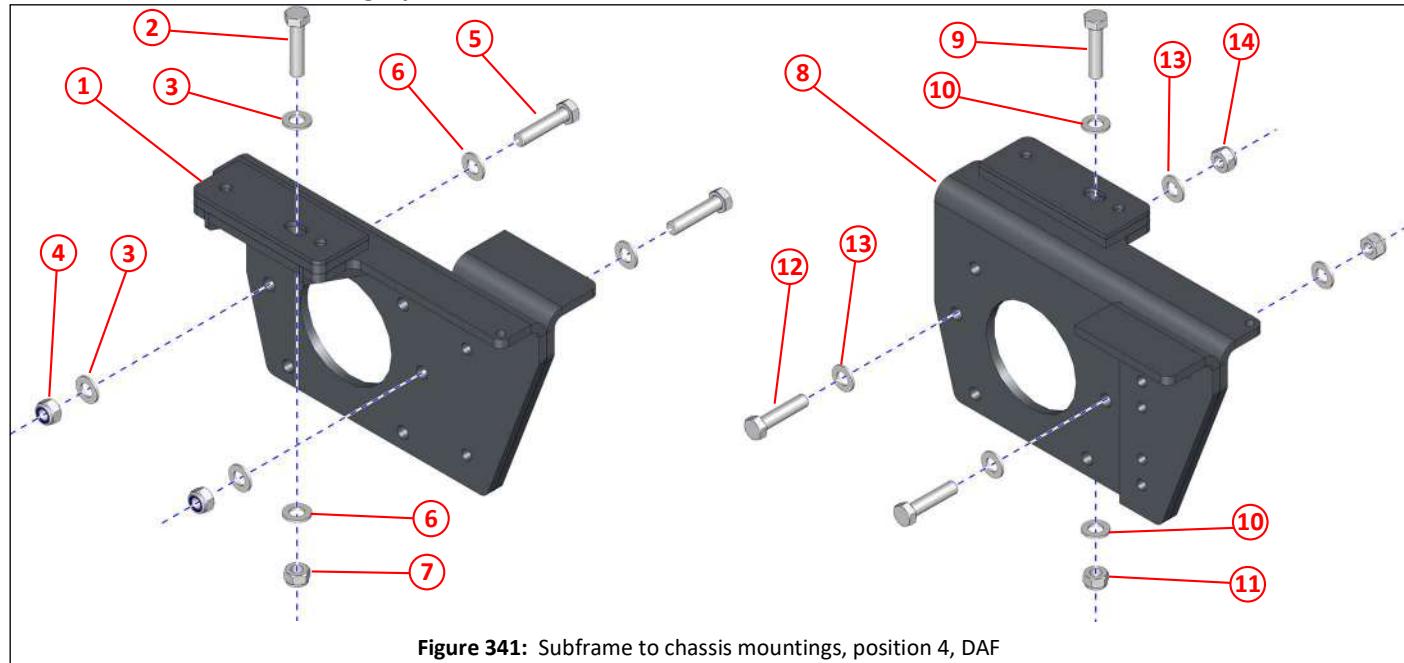
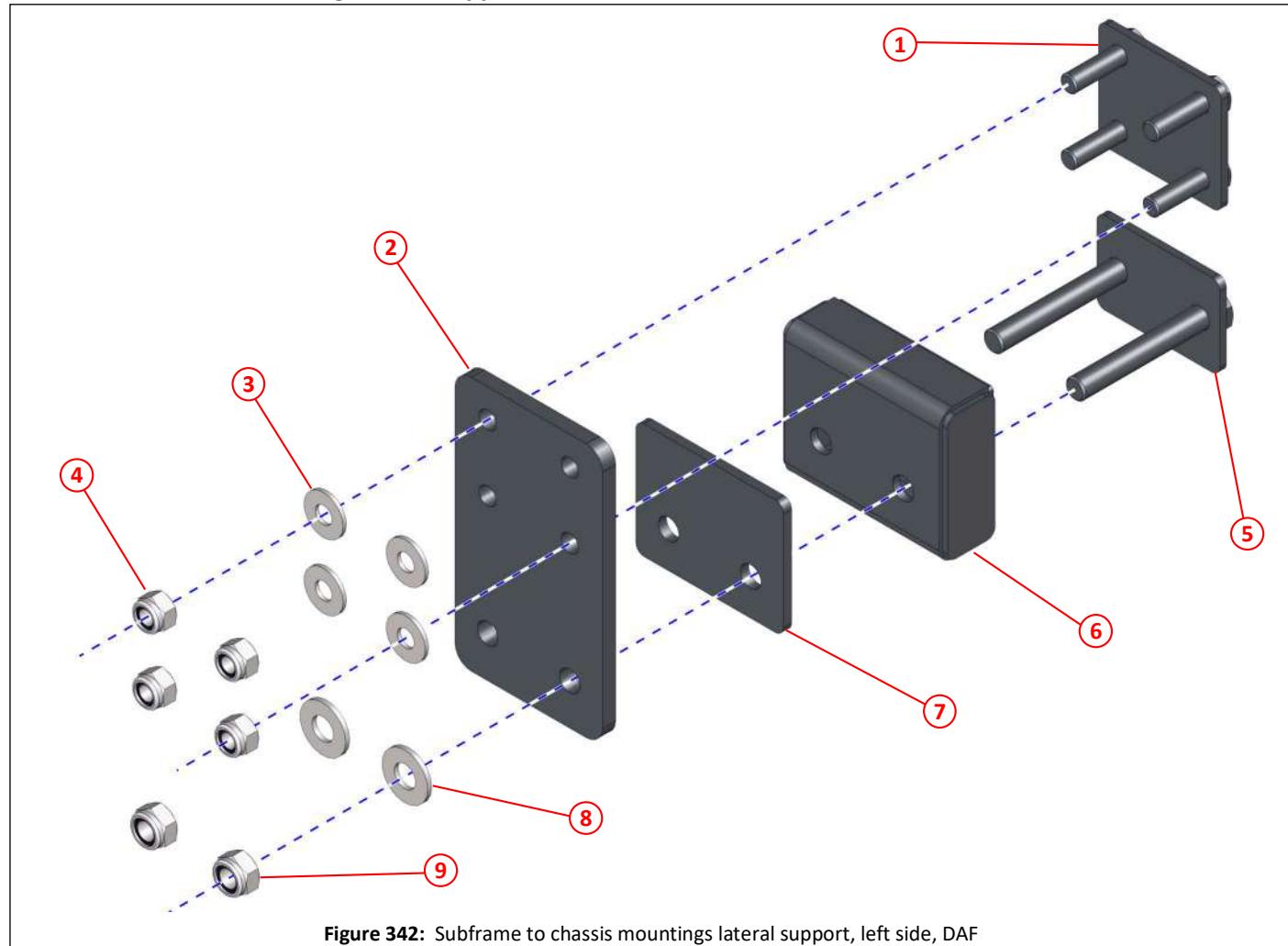


Figure 341: Subframe to chassis mountings, position 4, DAF

Item	Part No	Qty	Description	
①	043319	1	Bracket, chassis mounting, position 4, left hand side, DAF LF55 E6	373,374
②	000204	1	Bolt M14 x 60	
③	000073	2	Plain washer M14	
④	000164	1	Nyloc nut M14	
⑤	000204	2	Bolt M14 x 60	
⑥	000073	4	Plain washer M14	
⑦	000164	2	Nyloc nut M14	
⑧	043320	1	Bracket, chassis mounting, position 4, right hand side, DAF LF55 E6	373,374
⑨	000204	1	Bolt M14 x 60	
⑩	000073	2	Plain washer M14	
⑪	000164	1	Nyloc nut M14	
⑫	000204	2	Bolt M14 x 60	
⑬	000073	4	Plain washer M14	
⑭	000164	2	Nyloc nut M14	

Subframe to chassis mountings lateral support, left side, DAF

Figure 342: Subframe to chassis mountings lateral support, left side, DAF

Item	Part No	Qty	Description	
①	044393	1	Upper plate, lateral support	373,374
②	040356	1	Rear plate, lateral support	373,374
③	011094	4	Plain washer M10	
④	011075	4	Nyloc nut M10	
⑤	044395	1	Lower plate, lateral support	373,374
⑥	038140	1	Packer, lateral support	373,374
⑦	034387	1	Packer, type B	
⑧	011096	2	Plain washer M12	
⑨	011077	2	Nyloc nut M12	

Subframe to chassis mountings lateral support, right side, DAF

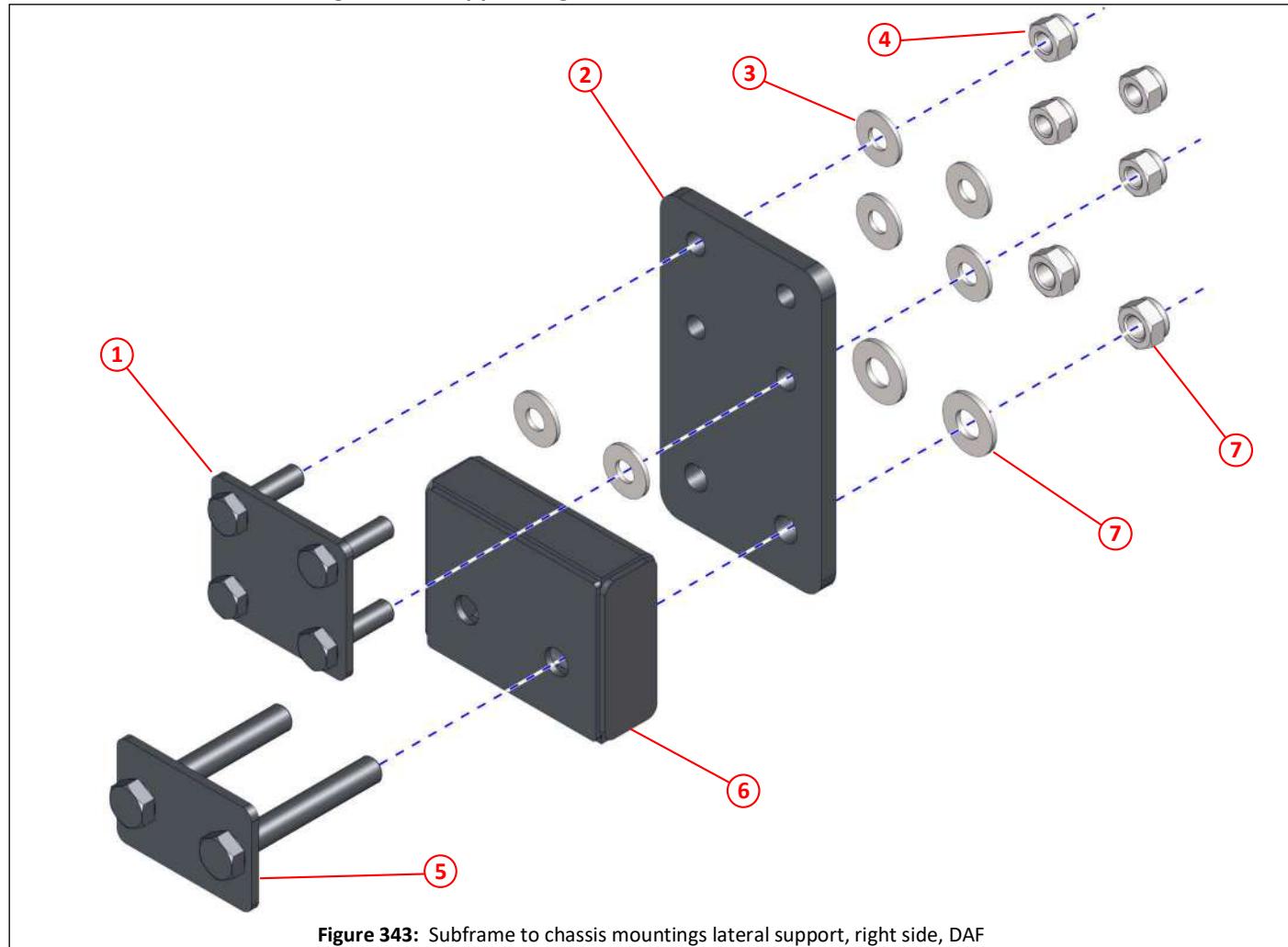
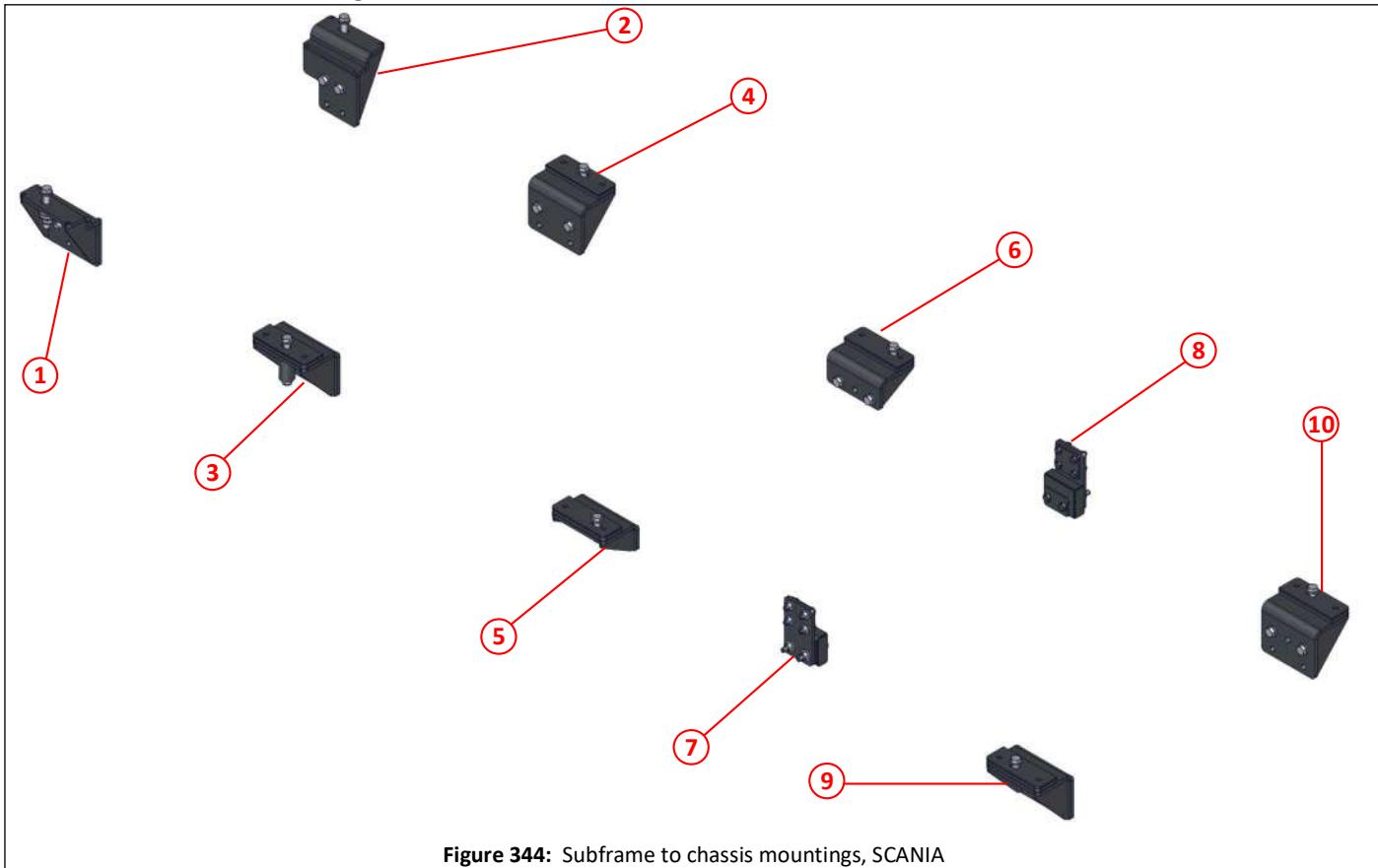


Figure 343: Subframe to chassis mountings lateral support, right side, DAF

Item	Part No	Qty	Description	
①	044393	1	Upper plate, lateral support	373,374
②	040356	1	Rear plate, lateral support	373,374
③	011094	4	Plain washer M10	
④	011075	4	Nyloc nut M10	
⑤	044395	1	Lower plate, lateral support	373,
⑥	038140	1	Packer, lateral support	
⑦	011096	2	Plain washer M12	
⑧	011077	2	Nyloc nut M12	

Subframe to chassis mountings, SCANIA

Figure 344: Subframe to chassis mountings, SCANIA

Item	Part No	Qty	Description	
①	044438	1	Chassis mounting bracket, position 1, left hand side, SCANIA	373,382
②	044439	1	Chassis mounting bracket, position 1, right hand side, SCANIA	373,382
③	043315	1	Chassis mounting bracket, position 2, left hand side, SCANIA	373,376
④	043316	1	Chassis mounting bracket, position 2, right hand side, SCANIA	373,376
⑤	043317	1	Chassis mounting bracket, position 3, left hand side, SCANIA	373,377
⑥	043318	1	Chassis mounting bracket, position 3, right hand side, SCANIA	373,377
⑦		1	Chassis lateral support, left hand side	373,378
⑧		1	Chassis lateral support, right hand side	373,378
⑨	043319	1	Chassis mounting bracket, position 4, left hand side, SCANIA	373,386
⑩	043120	1	Chassis mounting bracket, position 4, right hand side, SCANIA	373,387

i Please note that fixings shown are 'standard' and your actual sweeper may have different bolts, nuts and washers etc. than what is depicted. Quantities may also vary.

The chassis mounting brackets shown are for specific manufacturer's chassis.

Please always contact Scarab Parts Department when needing to order mounting brackets and fixings with your sweepers Works No. to ensure we match what was originally supplied.

Subframe to chassis mountings, position 1, SCANIA

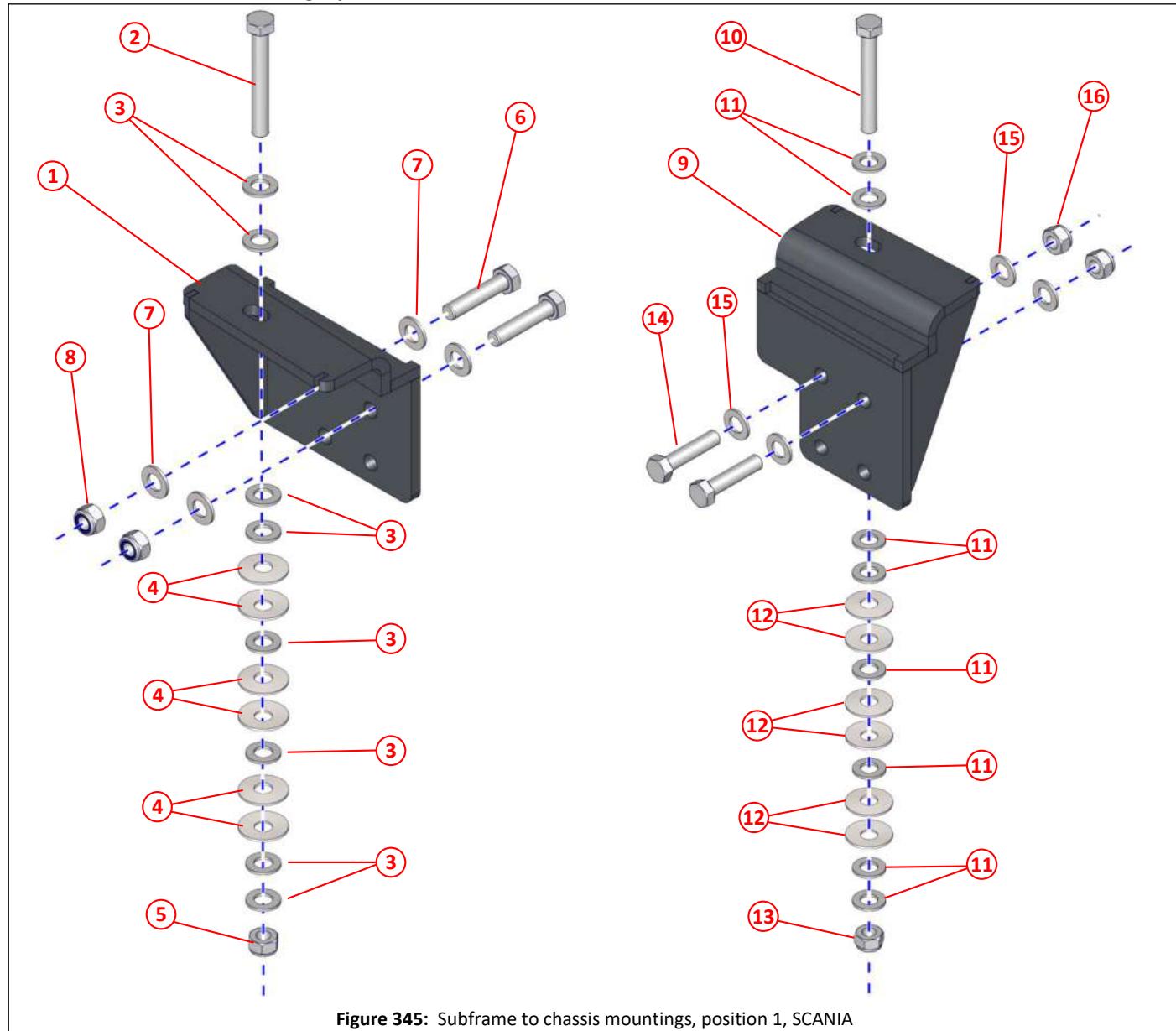
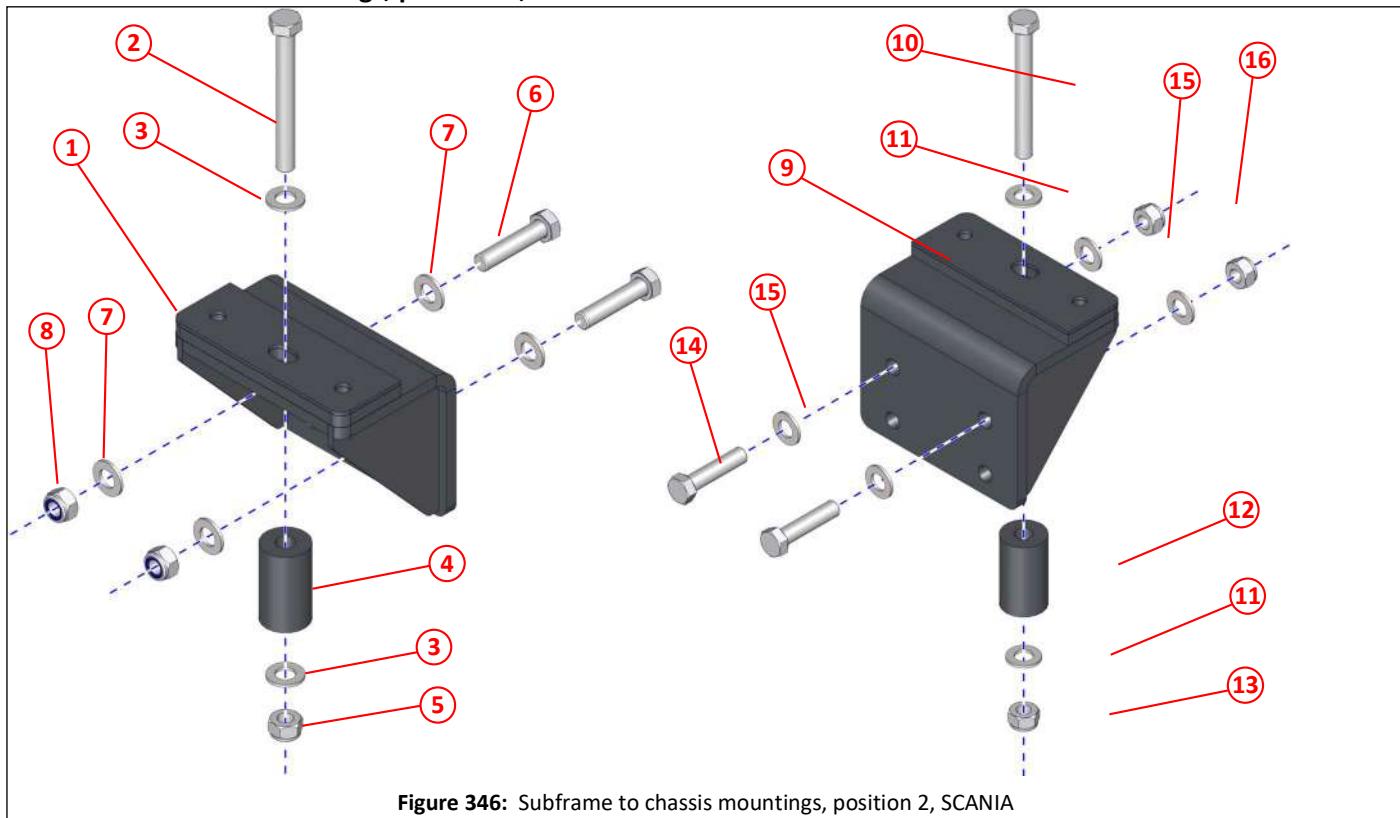


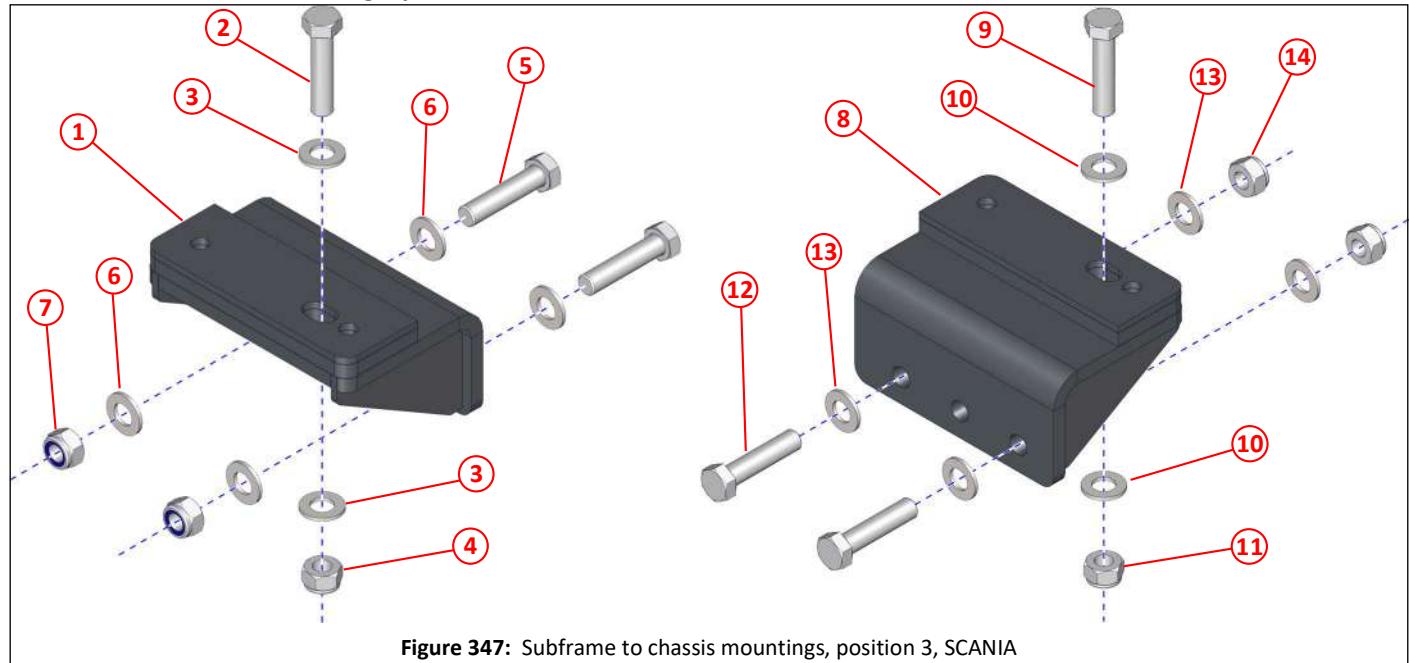
Figure 345: Subframe to chassis mountings, position 1, SCANIA

Item	Part No	Qty	Description	
①	044438	1	Bracket, chassis mounting, position 1, left hand side, SCANIA P250 E6 3900	381
②	000102	1	Bolt M14 x 100	
③	000073	8	Plain washer M14	
④	036824	6	Spring, disc	
⑤	000164	1	Nyloc nut M14	
⑥	000204	2	Set bolt M14 x 60	
⑦	000073	4	Plain washer M14	
⑧	000164	2	Nyloc nut M14	
⑨	044439	1	Bracket, chassis mounting, position 1, left hand side, SCANIA P250 E6 3900	381
⑩	000102	1	Bolt M14 x 100	
⑪	000073	8	Plain washer M14	
⑫	036824	6	Spring, disc	
⑬	000164	1	Nyloc nut M14	
⑭	000204	2	Set bolt M14 x 60	
⑮	000073	4	Plain washer M14	
⑯	000164	2	Nyloc nut M14	

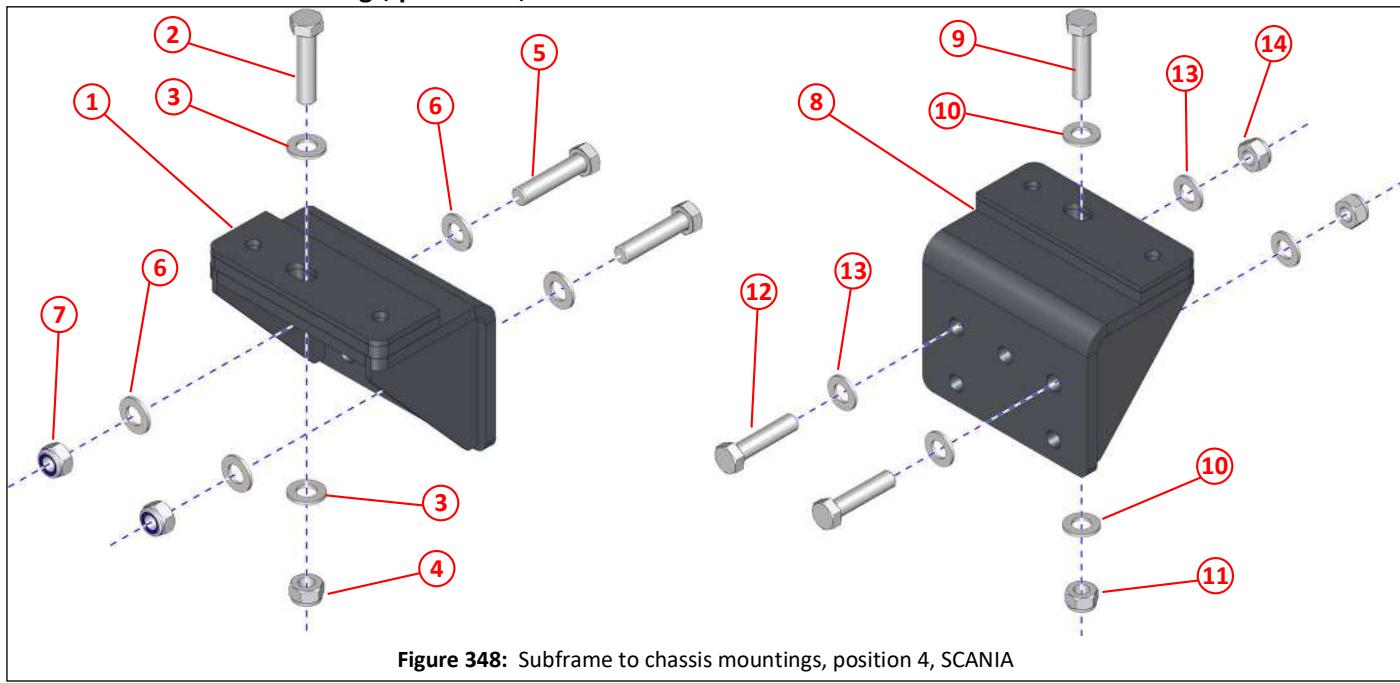
Subframe to chassis mountings, position 2, SCANIA

Figure 346: Subframe to chassis mountings, position 2, SCANIA

Item	Part No	Qty	Description	
①	044440	1	Bracket, chassis mounting, position 2, left hand side, SCANIA P250 E6 3900	381
②	000163	1	Bolt M14 x 120	
③	000073	2	Plain washer M14	
④	034909	1	Spacer ø15 x ø38 x 65	
⑤	000164	1	Nyloc nut M14	
⑥	000204	2	Set bolt M14 x 60	
⑦	000073	4	Plain washer M14	
⑧	000164	2	Nyloc nut M14	
⑨	044441	1	Bracket, chassis mounting, position 2, right hand side, SCANIA P250 E6 3900	381
⑩	000163	1	Bolt M14 x 120	
⑪	000073	2	Plain washer M14	
⑫	034909	1	Spacer ø15 x ø38 x 65	
⑬	000164	1	Nyloc nut M14	
⑭	000204	2	Set bolt M14 x 60	
⑮	000073	4	Plain washer M14	
⑯	000164	2	Nyloc nut M14	

Subframe to chassis mountings, position 3, SCANIA



Item	Part No	Qty	Description	
①	044442	1	Bracket, chassis mounting, position 3, left hand side, SCANIA P250 E6 3900	381
②	000204	1	Bolt M14 x 60	
③	000073	2	Plain washer M14	
④	000164	1	Nyloc nut M14	
⑤	000204	2	Bolt M14 x 60	
⑥	000073	4	Plain washer M14	
⑦	000164	2	Nyloc nut M14	
⑧	044443	1	Bracket, chassis mounting, position 3, right hand side, SCANIA P250 E6 3900	381
⑨	000204	1	Bolt M14 x 60	
⑩	000073	2	Plain washer M14	
⑪	000164	1	Nyloc nut M14	
⑫	000204	2	Bolt M14 x 60	
⑬	000073	4	Plain washer M14	
⑭	000164	2	Nyloc nut M14	

Subframe to chassis mountings, position 4, SCANIA

Figure 348: Subframe to chassis mountings, position 4, SCANIA

Item	Part No	Qty	Description	
①	044444	1	Bracket, chassis mounting, position 4, left hand side, SCANIA P250 E6 3900	381
②	000204	1	Bolt M14 x 60	
③	000073	2	Plain washer M14	
④	000164	1	Nyloc nut M14	
⑤	000204	2	Bolt M14 x 60	
⑥	000073	4	Plain washer M14	
⑦	000164	2	Nyloc nut M14	
⑧	044445	1	Bracket, chassis mounting, position 4, right hand side, SCANIA P250 E6 3900	381
⑨	000204	1	Bolt M14 x 60	
⑩	000073	2	Plain washer M14	
⑪	000164	1	Nyloc nut M14	
⑫	000204	2	Bolt M14 x 60	
⑬	000073	4	Plain washer M14	
⑭	000164	2	Nyloc nut M14	

Subframe to chassis mountings lateral support, left side, SCANIA

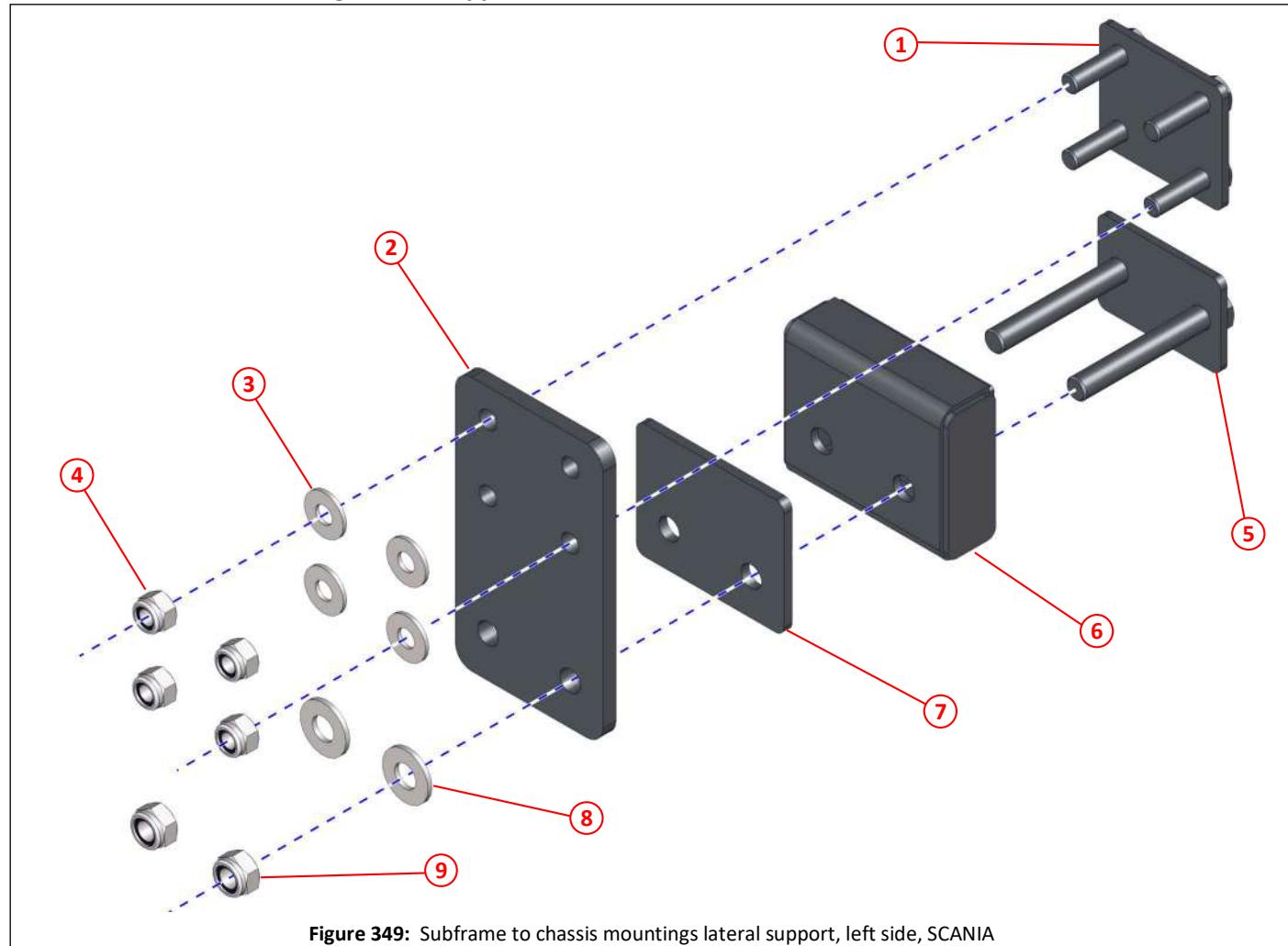
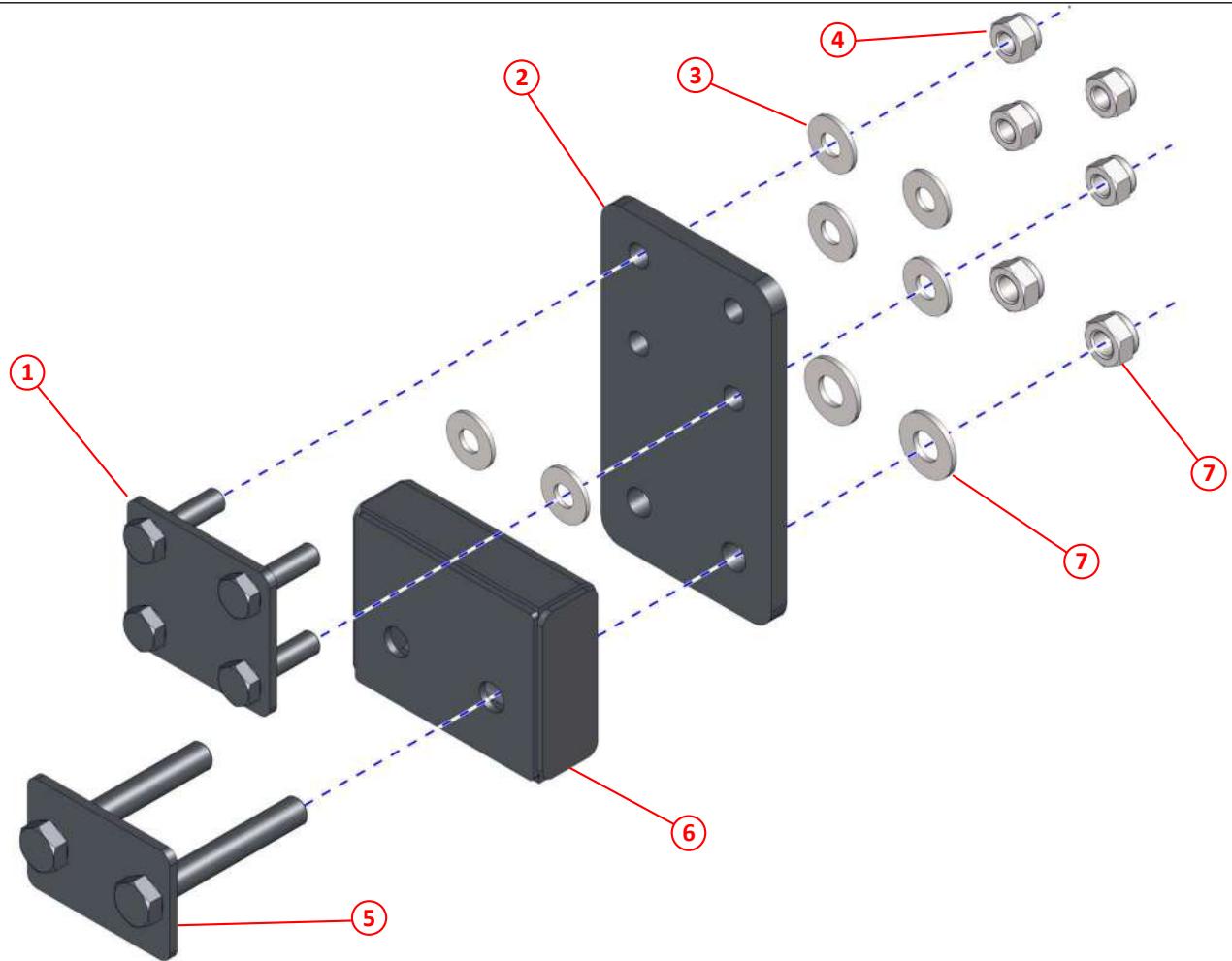


Figure 349: Subframe to chassis mountings lateral support, left side, SCANIA

Item	Part No	Qty	Description
①	044393	1	Upper plate, lateral support
②	040356	1	Rear plate, lateral support
③	011094	4	Plain washer M10
④	011075	4	Nyloc nut M10
⑤	044395	1	Lower plate, lateral support
⑥	038140	1	Packer, lateral support
⑦	034387	1	Packer, type B
⑧	011096	2	Plain washer M12
⑨	011077	2	Nyloc nut M12

Subframe to chassis mountings lateral support, right side, SCANIA

Figure 350: Subframe to chassis mountings lateral support, right side, SCANIA

Item	Part No	Qty	Description	
①	044393	1	Upper plate, lateral support	
②	040356	1	Rear plate, lateral support	
③	011094	4	Plain washer M10	
④	011075	4	Nyloc nut M10	
⑤	044395	1	Lower plate, lateral support	
⑥	038140	1	Packer, lateral support	
⑦	011096	2	Plain washer M12	
⑧	011077	2	Nyloc nut M12	

Subframe to chassis mountings, VOLVO

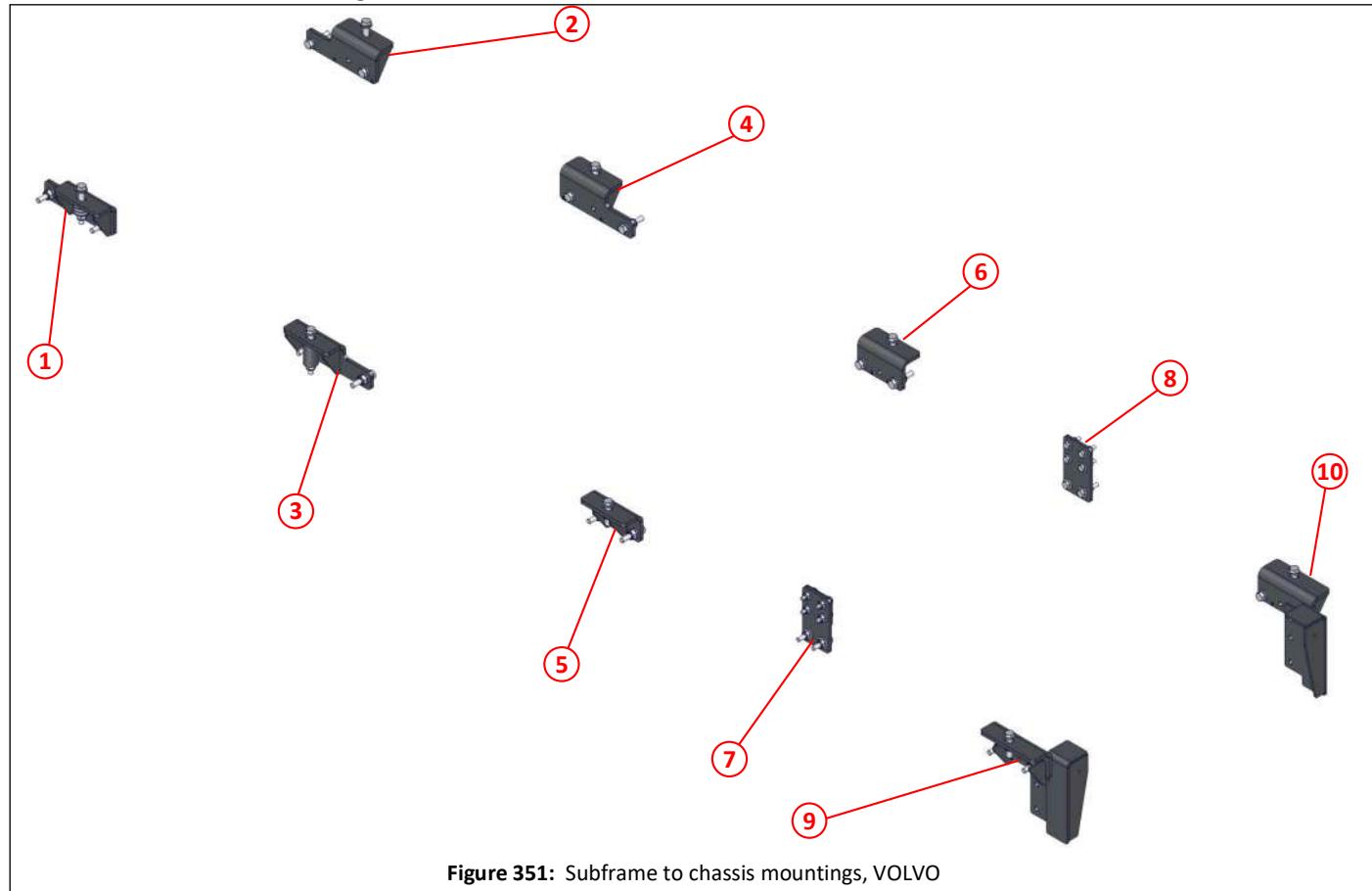
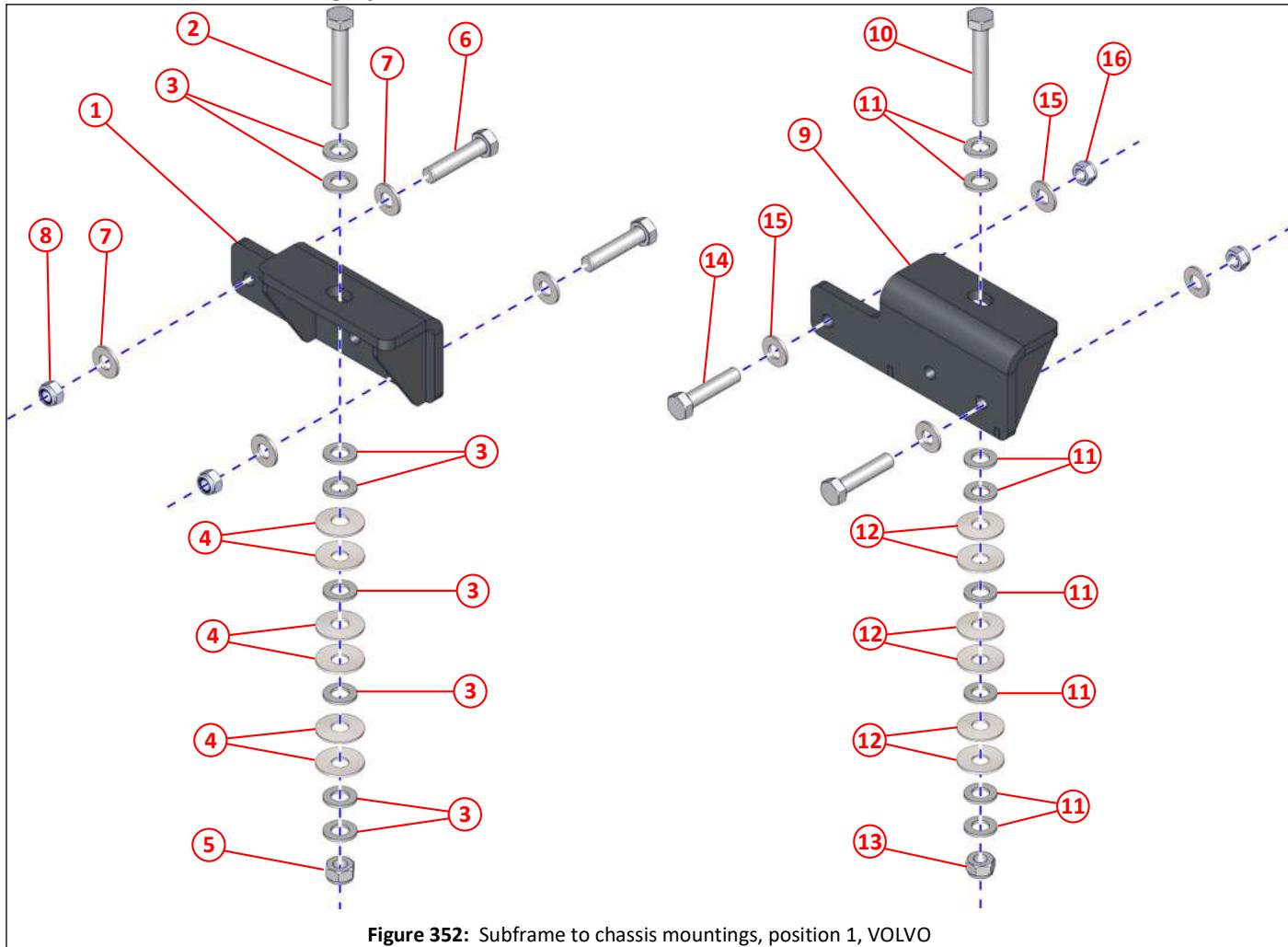


Figure 351: Subframe to chassis mountings, VOLVO

Item	Part No	Qty	Description	
①	043999	1	Chassis mounting bracket, position 1, left hand side, VOLVO	389
②	044000	1	Chassis mounting bracket, position 1, right hand side, VOLVO	389
③	043994	1	Chassis mounting bracket, position 2, left hand side, VOLVO	390
④	043995	1	Chassis mounting bracket, position 2, right hand side, VOLVO	390
⑤	043993	1	Chassis mounting bracket, position 3, left hand side, VOLVO	391
⑥	043993	1	Chassis mounting bracket, position 3, right hand side, VOLVO	391
⑦		1	Chassis lateral support, left hand side	393
⑧		1	Chassis lateral support, right hand side	394
⑨	043319	1	Chassis mounting bracket, position 4, left hand side, VOLVO	392
⑩	043120	1	Chassis mounting bracket, position 4, right hand side, VOLVO	392

i Please note that fixings shown are 'standard' and your actual sweeper may have different bolts, nuts and washers etc. than what is depicted. Quantities may also vary.
 The chassis mounting brackets shown are for specific manufacturer's chassis.

Please always contact Scarab Parts Department when needing to order mounting brackets and fixings with your sweepers Works No. to ensure we match what was originally supplied.

Subframe to chassis mountings, position 1, VOLVO

Figure 352: Subframe to chassis mountings, position 1, VOLVO

Item	Part No	Qty	Description	
①	043999	1	Bracket, chassis mounting, position 1, left hand side, VOLVO	388
②	000102	1	Bolt M14 x 100	
③	000073	8	Plain washer M14	
④	036824	6	Spring, disc	
⑤	000164	1	Nyloc nut M14	
⑥	000204	2	Set bolt M12 x 60 x 1.25	
⑦	011096	4	Plain washer M12	
⑧	011086	2	Nyloc nut M12 x 1.25	
⑨	044000	1	Bracket, chassis mounting, position 1, left hand side, VOLVO	388
⑩	000102	1	Bolt M14 x 100	
⑪	000073	8	Plain washer M14	
⑫	036824	6	Spring, disc	
⑬	000164	1	Nyloc nut M14	
⑭	000391	2	Set bolt M12 x 60 x 1.25	
⑮	011096	4	Plain washer M12	
⑯	011086	2	Nyloc nut M12 x 1.25	

Subframe to chassis mountings, position 2, VOLVO

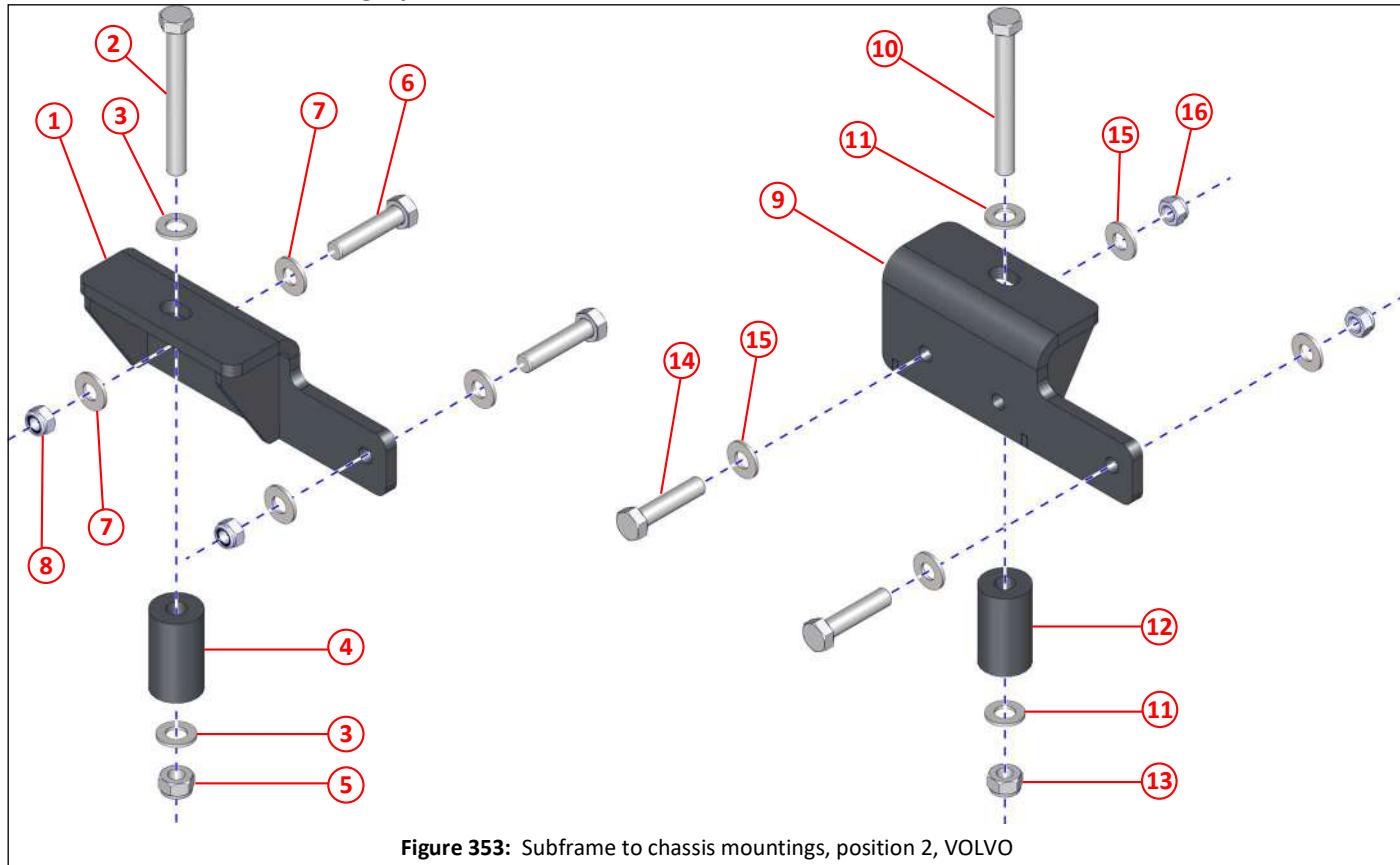
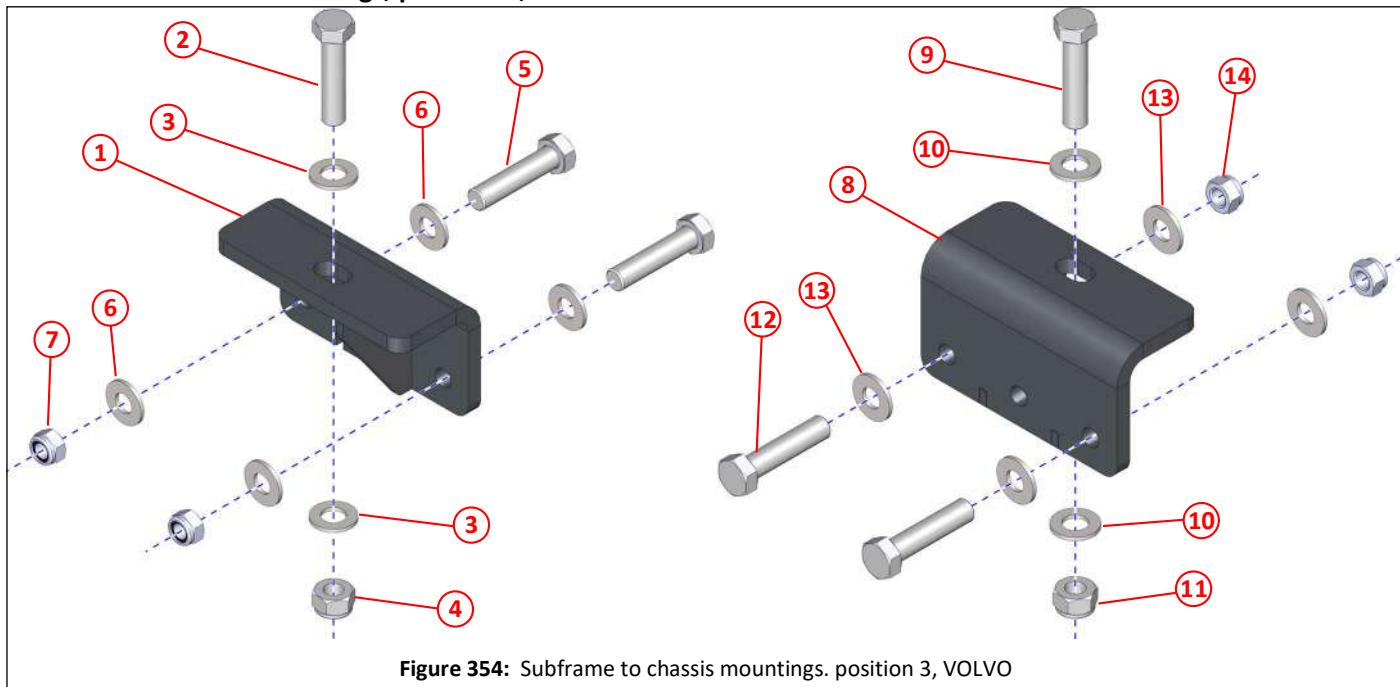


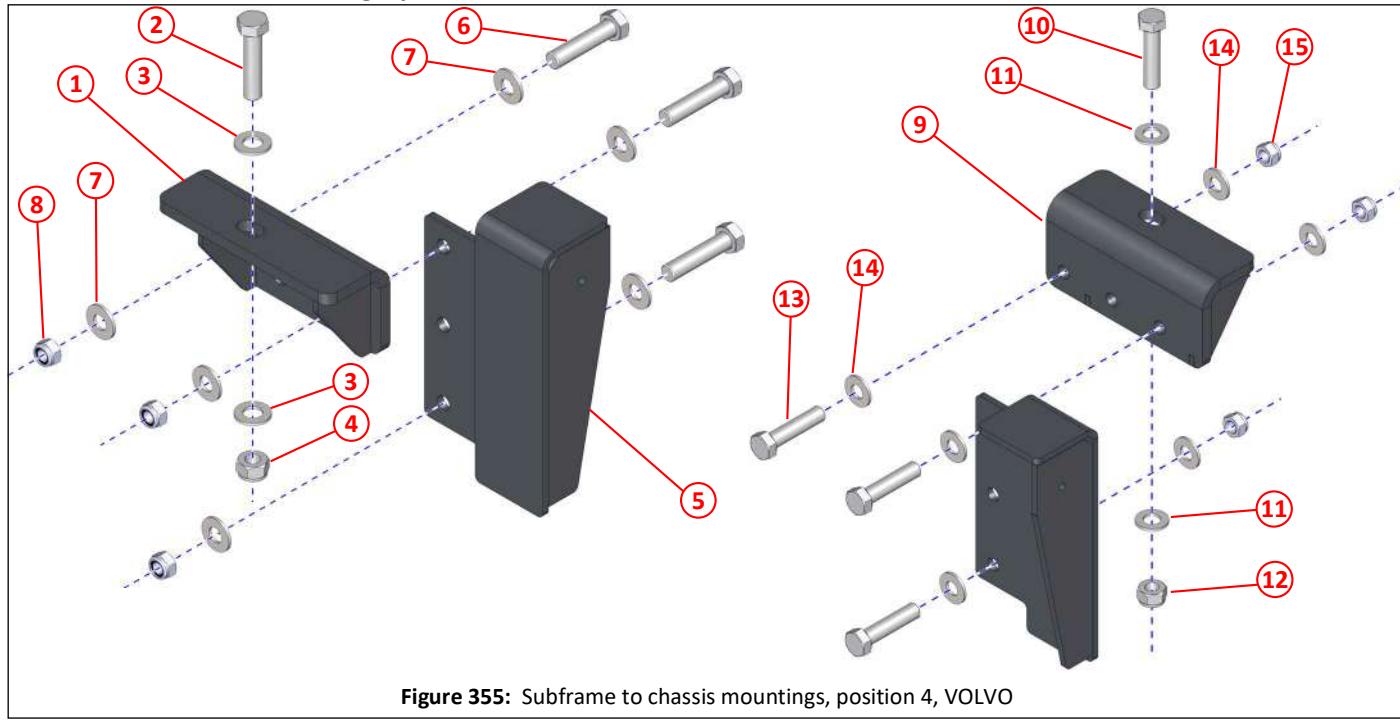
Figure 353: Subframe to chassis mountings, position 2, VOLVO

Item	Part No	Qty	Description	
①	043994	1	Bracket, chassis mounting, position 2, left hand side, VOLVO	388
②	000163	1	Bolt M14 x 120	
③	000073	2	Plain washer M14	
④	034909	1	Spacer ø15 x ø38 x 65	
⑤	000164	1	Nyloc nut M14	
⑥	000391	2	Set bolt M12 x 60 x 1.25	
⑦	011096	4	Plain washer M12	
⑧	011086	2	Nyloc nut M12 x 1.25	
⑨	043995	1	Bracket, chassis mounting, position 2, right hand side, VOLVO	388
⑩	000163	1	Bolt M14 x 120	
⑪	000073	2	Plain washer M14	
⑫	034909	1	Spacer ø15 x ø38 x 65	
⑬	000164	1	Nyloc nut M14	
⑭	000391	2	Set bolt M12 x 60 x 1.25	
⑮	011096	4	Plain washer M12	
⑯	011086	2	Nyloc nut M12 x 1.25	

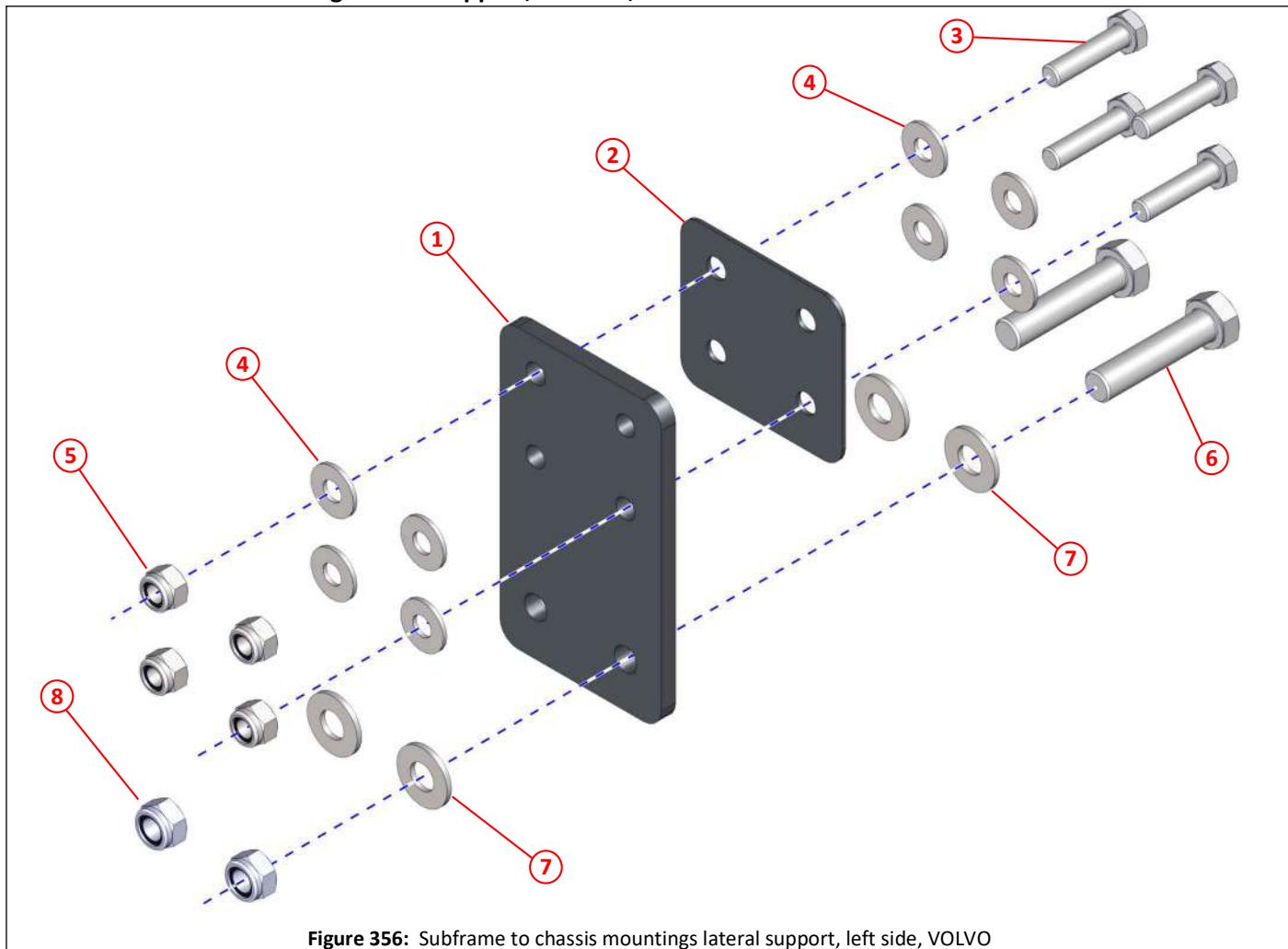
Subframe to chassis mountings, position 3, VOLVO

Figure 354: Subframe to chassis mountings. position 3, VOLVO

Item	Part No	Qty	Description	
①	043993	1	Bracket, chassis mounting, position 3, VOLVO	388
②	000204	1	Bolt M14 x 60	
③	000073	2	Plain washer M14	
④	000164	1	Nyloc nut M14	
⑤	000391	2	Bolt M12 x 60 x 1.25	
⑥	011096	4	Plain washer M12	
⑦	011086	2	Nyloc nut M12 x 1.25	
⑧	043993	1	Bracket, chassis mounting, position 3, VOLVO	388
⑨	000204	1	Bolt M14 x 60	
⑩	000073	2	Plain washer M14	
⑪	000164	1	Nyloc nut M14	
⑫	000391	2	Bolt M12 x 60 x 1.25	
⑬	011096	4	Plain washer M12	
⑭	011086	2	Nyloc nut M12 x 1.25	

Subframe to chassis mountings, position 4, VOLVO



Item	Part No	Qty	Description	
①	043991	1	Bracket, chassis mounting, position 4, left hand side, VOLVO	388
②	000204	1	Bolt M14 x 60	
③	000073	2	Plain washer M14	
④	000164	1	Nyloc nut M14	
⑤	043989	1	Extension, chassis rail, left hand side, VOLVO	
⑥	000391	3	Bolt M12 x 60 x 1.25	
⑦	011096	6	Plain washer M12	
⑧	011086	3	Nyloc nut M12 x 1.25	
⑨	043992	1	Bracket, chassis mounting, position 4, right hand side, VOLVO	388
⑩	000204	1	Bolt M14 x 60	
⑪	000073	2	Plain washer M14	
⑫	043990	1	Extension, chassis rail, right hand side, VOLVO	
⑬	000164	1	Nyloc nut M14	
⑭	000391	3	Bolt M12 x 60 x 1.25	
⑮	011096	6	Plain washer M12	
⑯	011086	3	Nyloc nut M12 x 1.25	

Subframe to chassis mountings lateral support, left side, VOLVO


Item	Part No	Qty	Description	
①	040356	1	Bracket, lateral support, rear	
②	041309	1	Packer, subframe lateral support	
③	011034	4	Set screw M10 x 40	
④	011094	8	Plain washer M10	
⑤	011075	4	Nyloc nut M10	
⑥	000391	2	Bolt M12 x 60 x 1.25	
⑦	011096	4	Plain washer M12	
⑧	011086	2	Nyloc nut M12 x 1.25	

Subframe to chassis mountings lateral support, right side, VOLVO

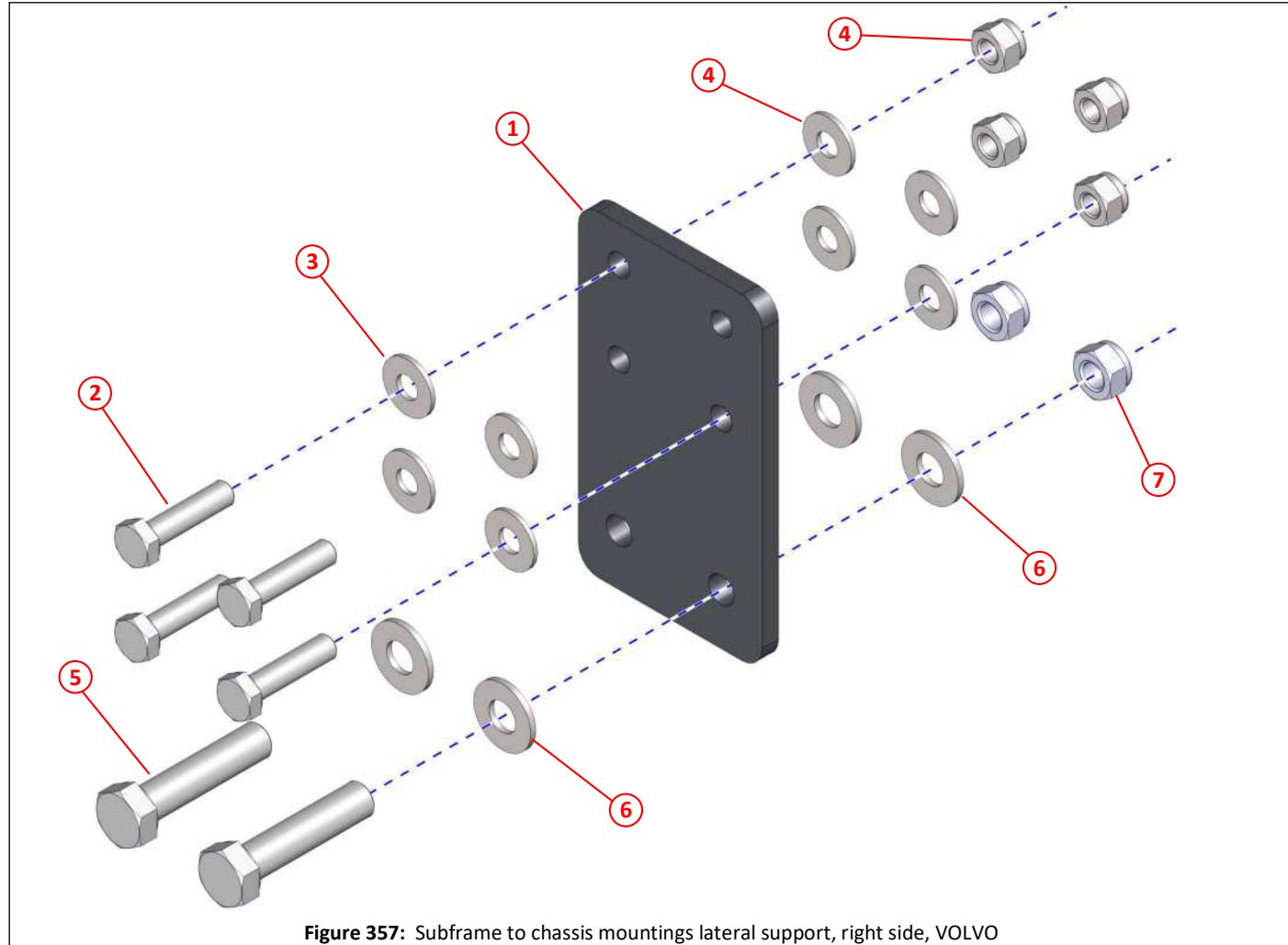
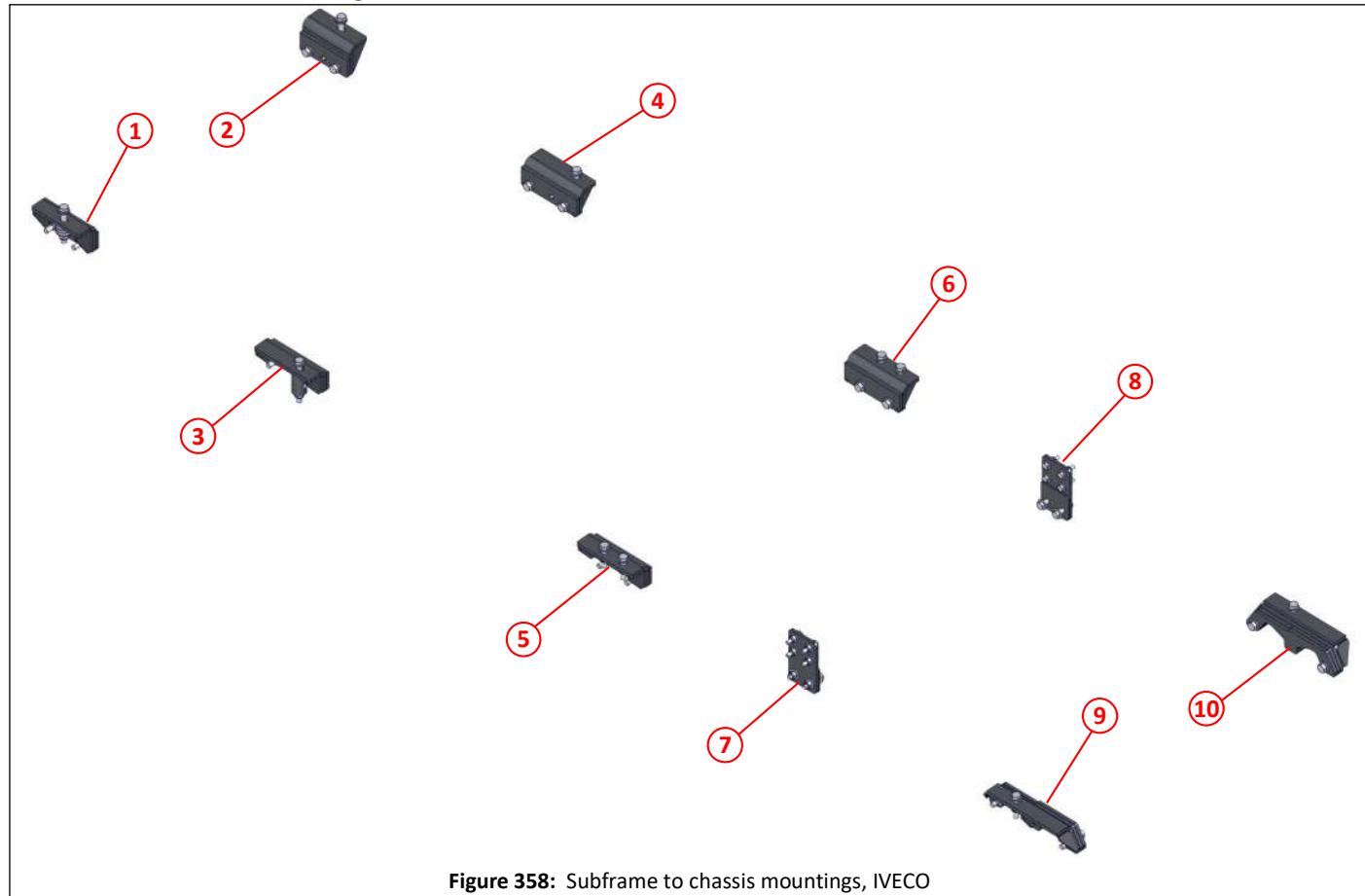


Figure 357: Subframe to chassis mountings lateral support, right side, VOLVO

Item	Part No	Qty	Description
①	040356	1	Bracket, lateral support, rear
②	011034	4	Set screw M10 x 40
③	011094	8	Plain washer M10
④	011075	4	Nyloc nut M10
⑤	000391	2	Bolt M12 x 60 x 1.25
⑥	011096	4	Plain washer M12
⑦	011086	2	Nyloc nut M12 x 1.25

Subframe to chassis mountings, IVECO

Figure 358: Subframe to chassis mountings, IVECO

Item	Part No	Qty	Description	
①	045188	1	Chassis mounting bracket, position 1, left hand side, IVECO	396
②	045189	1	Chassis mounting bracket, position 1, right hand side, IVECO	396
③	045190	1	Chassis mounting bracket, position 2, left hand side, IVECO	397
④	045191	1	Chassis mounting bracket, position 2, right hand side, IVECO	397
⑤	045192	1	Chassis mounting bracket, position 3, left hand side, IVECO	398
⑥	045193	1	Chassis mounting bracket, position 3, right hand side, IVECO	398
⑦		1	Chassis lateral support, left hand side	400
⑧		1	Chassis lateral support, right hand side	401
⑨	034605	1	Chassis mounting bracket, position 4, left hand side, IVECO	399
⑩	034606	1	Chassis mounting bracket, position 4, right hand side, IVECO	399

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Subframe to chassis mountings, position 1, IVECO

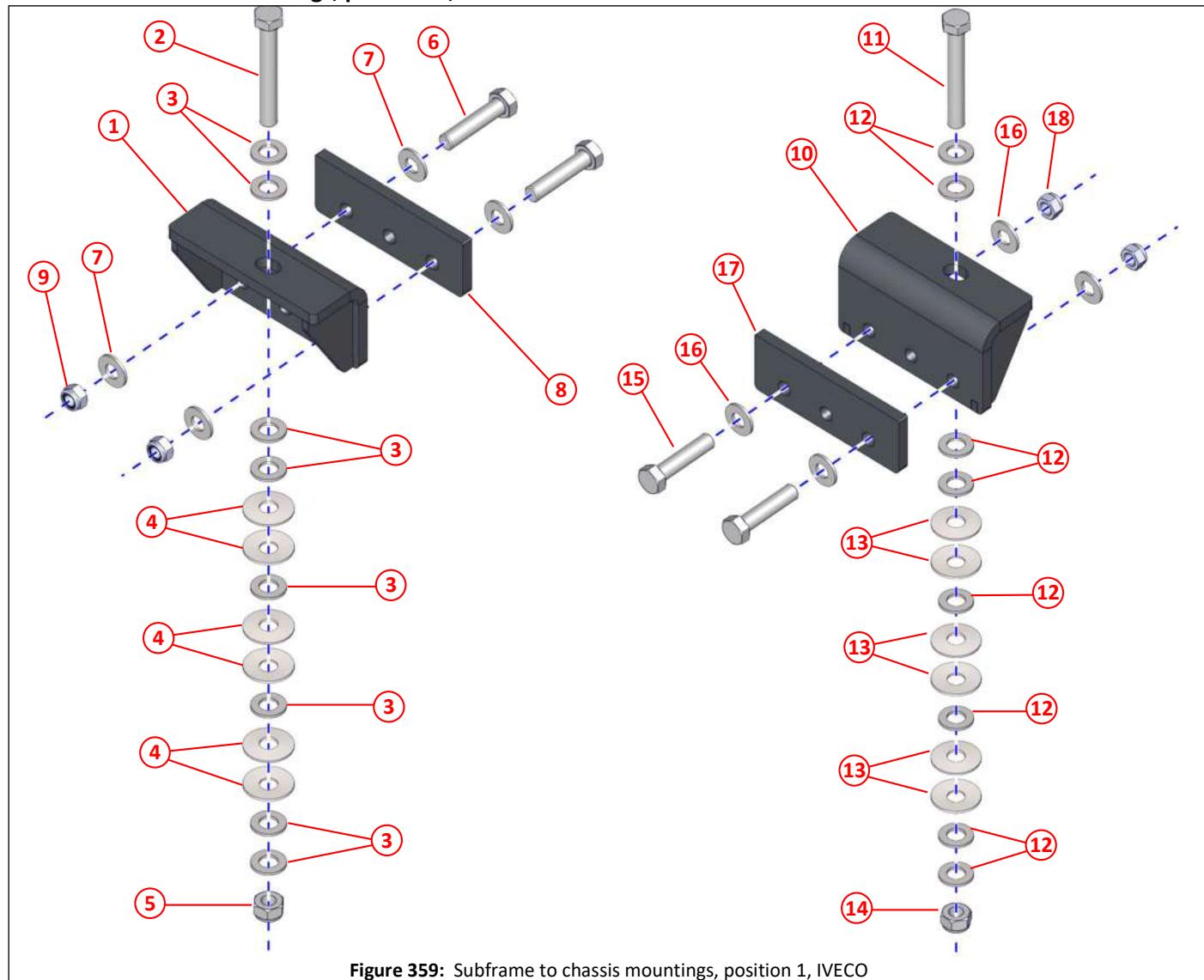
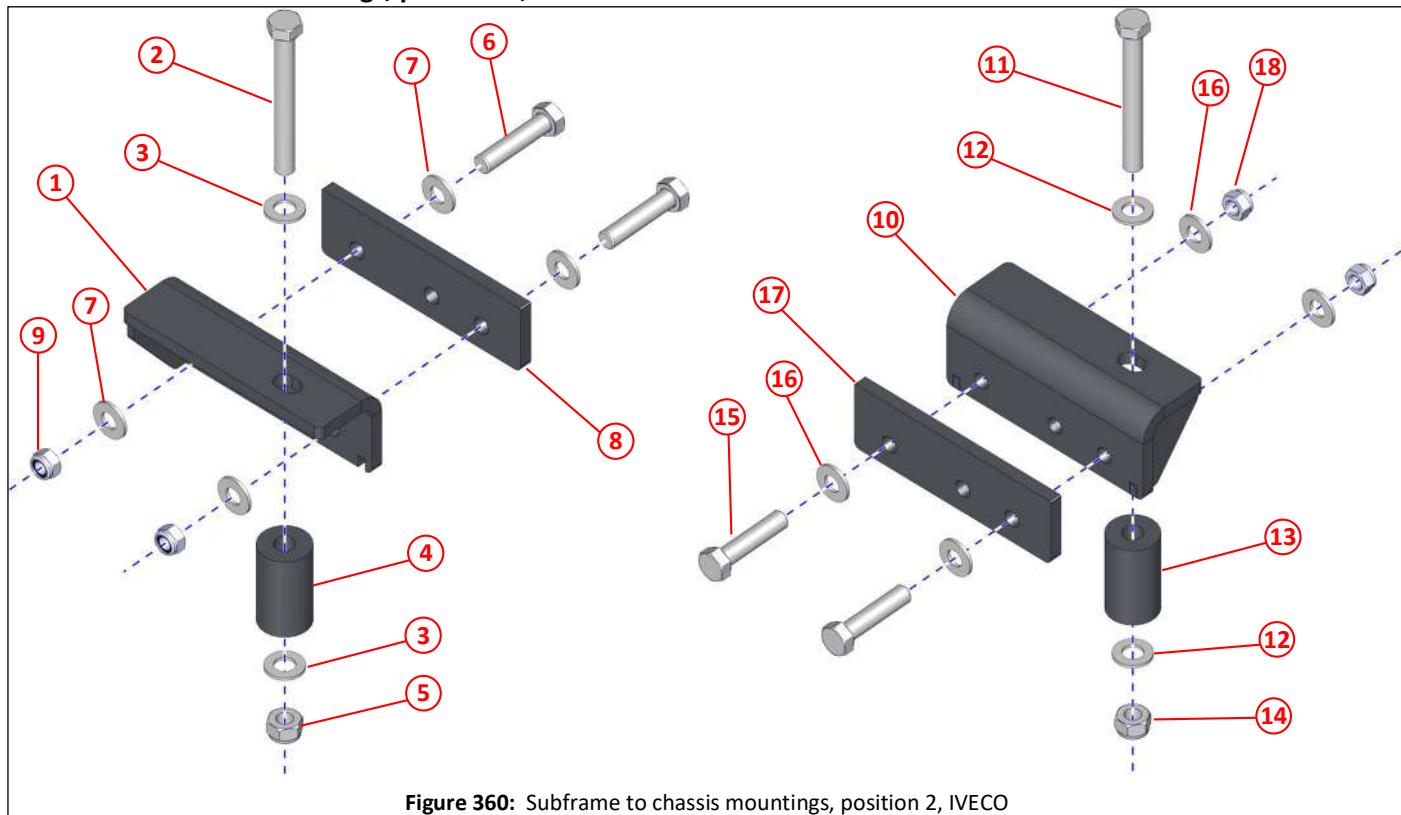


Figure 359: Subframe to chassis mountings, position 1, IVECO

Item	Part No	Qty	Description	
①	045188	1	Bracket, chassis mounting, position 1, left hand side, IVECO	395
②	000102	1	Bolt M14 x 100	
③	000073	8	Plain washer M14	
④	036824	6	Spring, disc	
⑤	000164	1	Nyloc nut M14	
⑥	000204	2	Set bolt M12 x 60 x 1.25	
⑦	011096	4	Plain washer M12	
⑧	045194	1	Packer, chassis mounting bracket, position 1	
⑨	011086	2	Nyloc nut M12 x 1.25	
⑩	045189	1	Bracket, chassis mounting, position 1, right hand side, IVECO	395
⑪	000102	1	Bolt M14 x 100	
⑫	000073	8	Plain washer M14	
⑬	036824	6	Spring, disc	
⑭	000164	1	Nyloc nut M14	
⑮	000204	2	Set bolt M12 x 60 x 1.25	
⑯	011096	4	Plain washer M12	
⑰	045194	1	Packer, chassis mounting bracket, position 1	
⑱	011086	2	Nyloc nut M12 x 1.25	

Subframe to chassis mountings, position 2, IVECO

Figure 360: Subframe to chassis mountings, position 2, IVECO

Item	Part No	Qty	Description	
①	045190	1	Bracket, chassis mounting, position 2, left hand side, VOLVO	395
②	000163	1	Bolt M14 x 120	
③	000073	2	Plain washer M14	
④	034909	1	Spacer ø15 x ø38 x 65	
⑤	000164	1	Nyloc nut M14	
⑥	000391	2	Set bolt M12 x 60 x 1.25	
⑦	011096	4	Plain washer M12	
⑧	045195	1	Packer, chassis mounting bracket, position 2	
⑨	011086	2	Nyloc nut M12 x 1.25	
⑩	045191	1	Bracket, chassis mounting, position 2, right hand side, VOLVO	395
⑪	000163	1	Bolt M14 x 120	
⑫	000073	2	Plain washer M14	
⑬	034909	1	Spacer ø15 x ø38 x 65	
⑭	000164	1	Nyloc nut M14	
⑮	000391	2	Set bolt M12 x 60 x 1.25	
⑯	011096	4	Plain washer M12	
⑰	045195	1	Packer, chassis mounting bracket, position 2	
⑱	011086	2	Nyloc nut M12 x 1.25	

Subframe to chassis mountings, position 3, IVECO

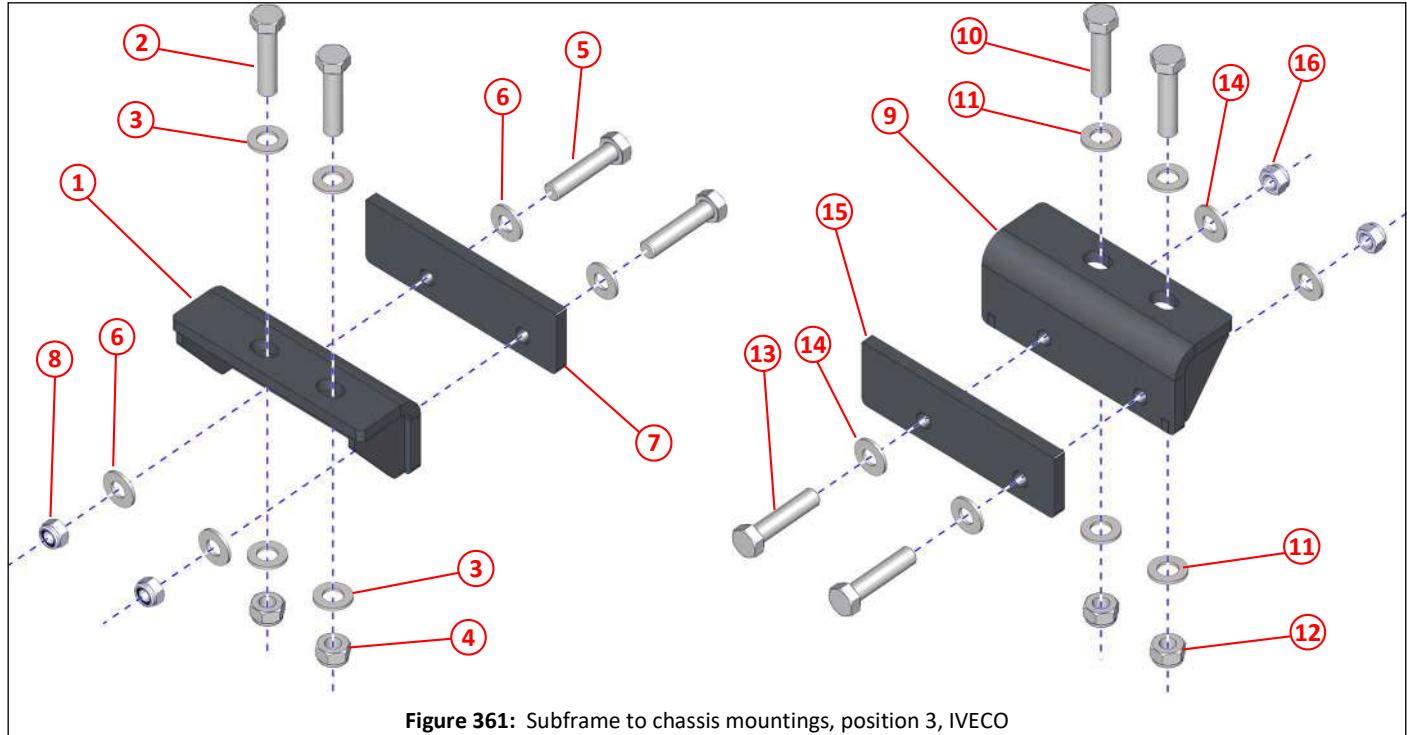
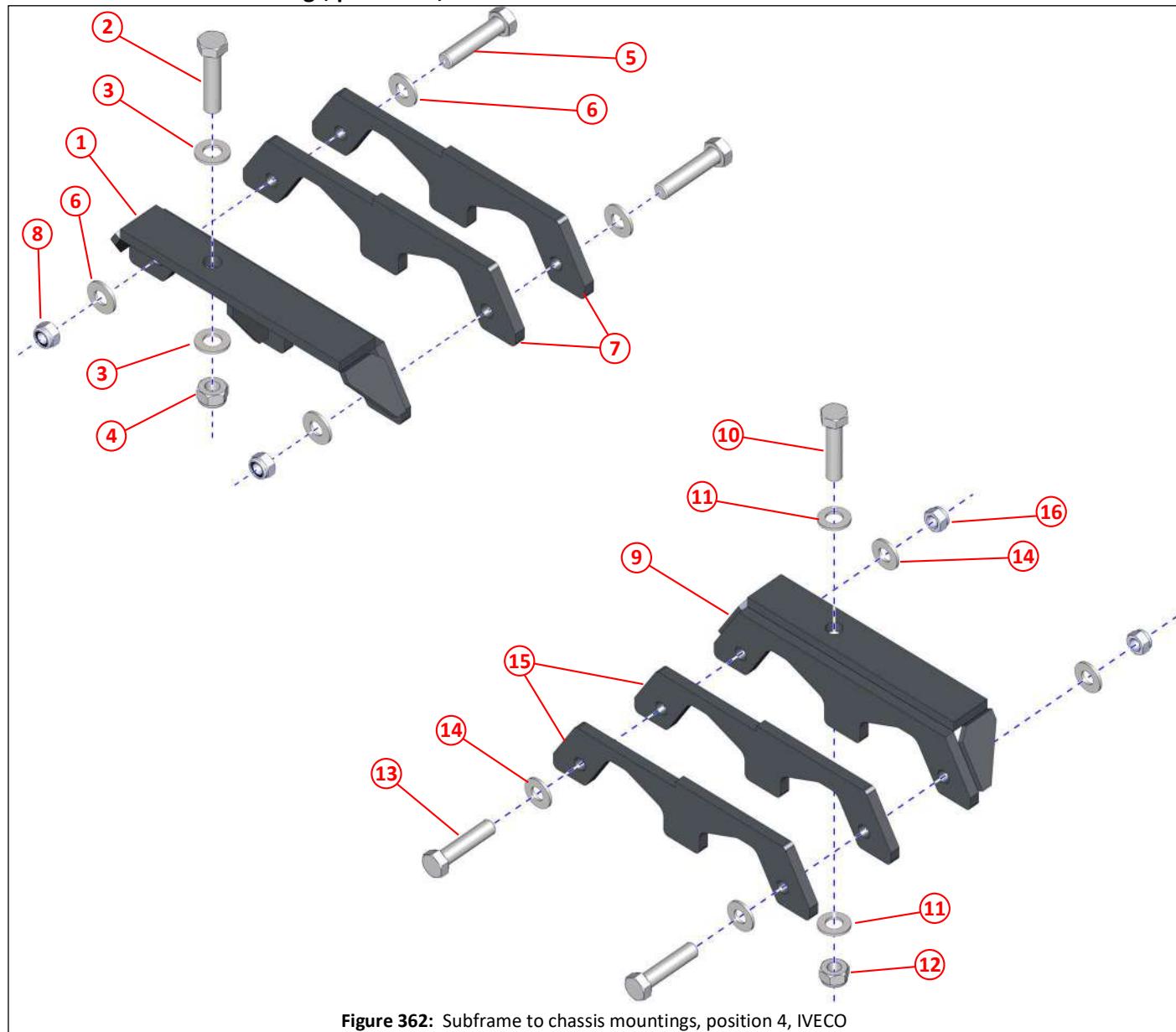


Figure 361: Subframe to chassis mountings, position 3, IVECO

Item	Part No	Qty	Description	
①	045192	1	Bracket, chassis mounting, position 3, left hand side, IVECO	395
②	000204	2	Bolt M14 x 60	
③	000073	4	Plain washer M14	
④	000164	2	Nyloc nut M14	
⑤	000391	2	Set bolt M12 x 60 x 1.25	
⑥	011096	4	Plain washer M12	
⑦	045196	1	Packer, chassis mounting bracket, position 3	
⑧	011086	2	Nyloc nut M12 x 1.25	
⑨	045193	1	Bracket, chassis mounting, position 3, right hand side, IVECO	395
⑩	000204	2	Bolt M14 x 60	
⑪	000073	3	Plain washer M14	
⑫	000164	4	Nyloc nut M14	
⑬	000391	2	Set bolt M12 x 60 x 1.25	
⑭	011096	4	Plain washer M12	
⑮	045196	1	Packer, chassis mounting bracket, position 3	
⑯	011086	2	Nyloc nut M12 x 1.25	

Subframe to chassis mountings, position 4, IVECO

Figure 362: Subframe to chassis mountings, position 4, IVECO

Item	Part No	Qty	Description	
①	034605	1	Bracket, chassis mounting, position 4, left hand side, IVECO	395
②	000204	1	Bolt M14 x 60	
③	000073	2	Plain washer M14	
④	000164	1	Nyloc nut M14	
⑤	000391	2	Set bolt M12 x 60 x 1.25	
⑥	011096	4	Plain washer M12	
⑦	034607	2	Packer, chassis mounting bracket, position 3	
⑧	011086	2	Nyloc nut M12 x 1.25	
⑨	034606	1	Bracket, chassis mounting, position 4, right hand side, IVECO	395
⑩	000204	1	Bolt M14 x 60	
⑪	000073	2	Plain washer M14	
⑫	000164	1	Nyloc nut M14	
⑬	000391	2	Set bolt M12 x 60 x 1.25	
⑭	011096	4	Plain washer M12	
⑮	034607	2	Packer, chassis mounting bracket, position 3	
⑯	011086	2	Nyloc nut M12 x 1.25	

Subframe to chassis mountings lateral support, left side, IVECO

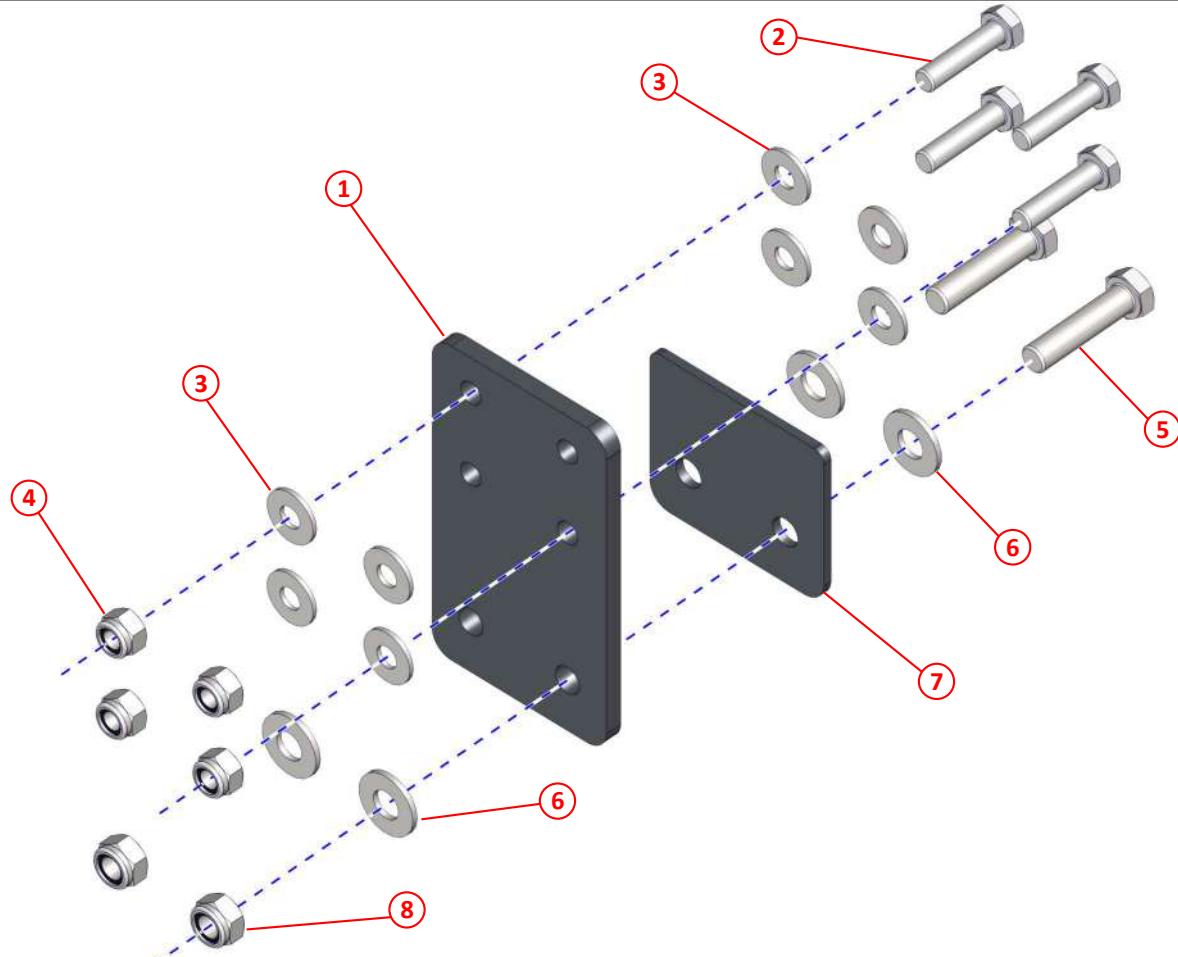
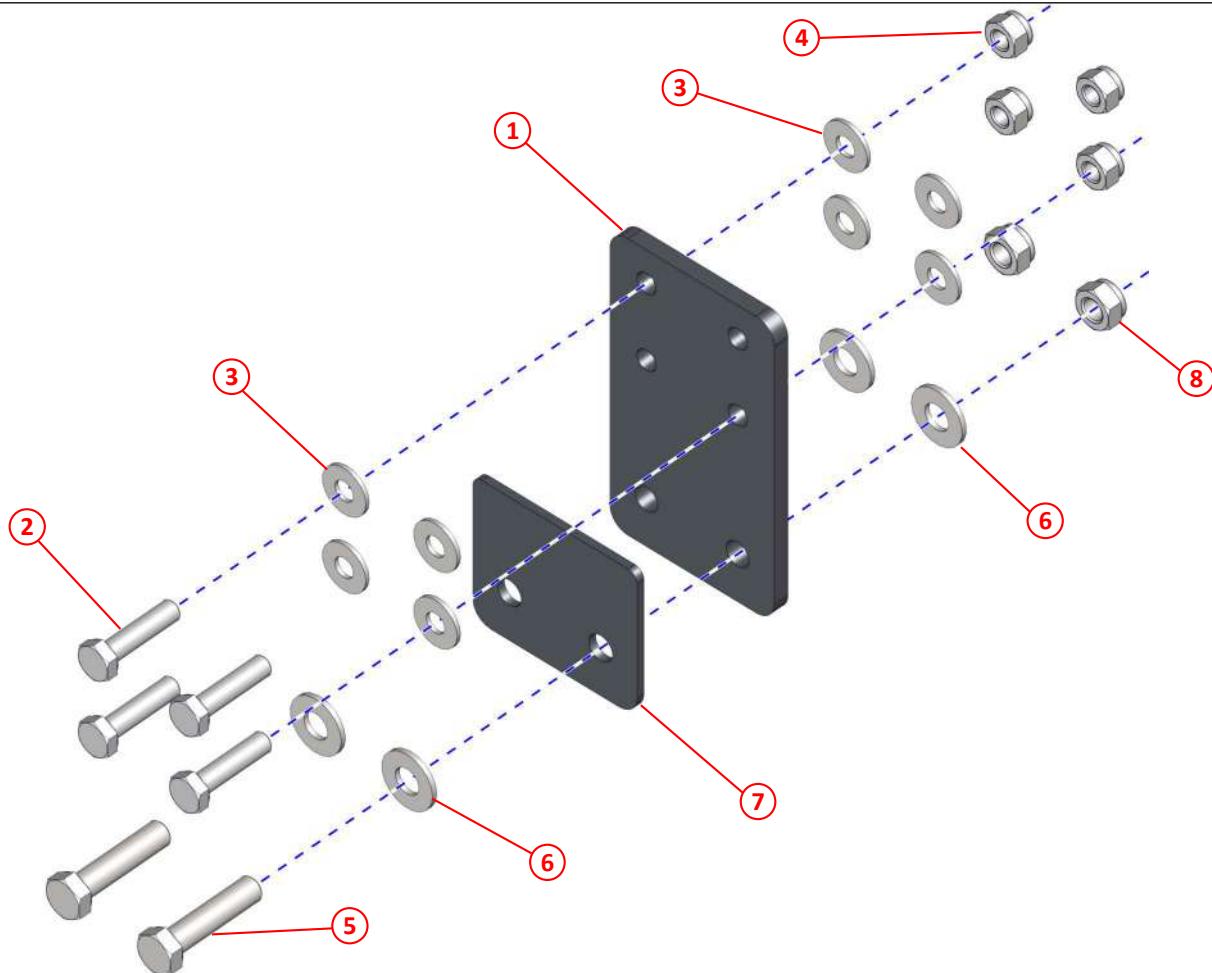


Figure 363: Subframe to chassis mountings lateral support, left side, IVECO

Item	Part No	Qty	Description	
①	040356	1	Bracket, lateral support, rear	
②	011034	4	Set screw M10 x 40	
③	011094	8	Plain washer M10	
④	011075	4	Nyloc nut M10	
⑤	000391	2	Bolt M12 x 60 x 1.25	
⑥	011096	4	Plain washer M12	
⑦	045200	1	Packer, lateral support, rear, IVECO	
⑧	011086	2	Nyloc nut M12 x 1.25	

Subframe to chassis mountings lateral support, right side, IVECO

Figure 364: Subframe to chassis mountings lateral support, right side, IVECO

Item	Part No	Qty	Description
①	040356	1	Bracket, lateral support, rear
②	011034	4	Set screw M10 x 40
③	011094	8	Plain washer M10
④	011075	4	Nyloc nut M10
⑤	000391	2	Bolt M12 x 60 x 1.25
⑥	011096	4	Plain washer M12
⑦	045200	1	Packer, lateral support, rear, IVECO
⑧	011086	2	Nyloc nut M12 x 1.25

Subframe to chassis mountings, Mercedes

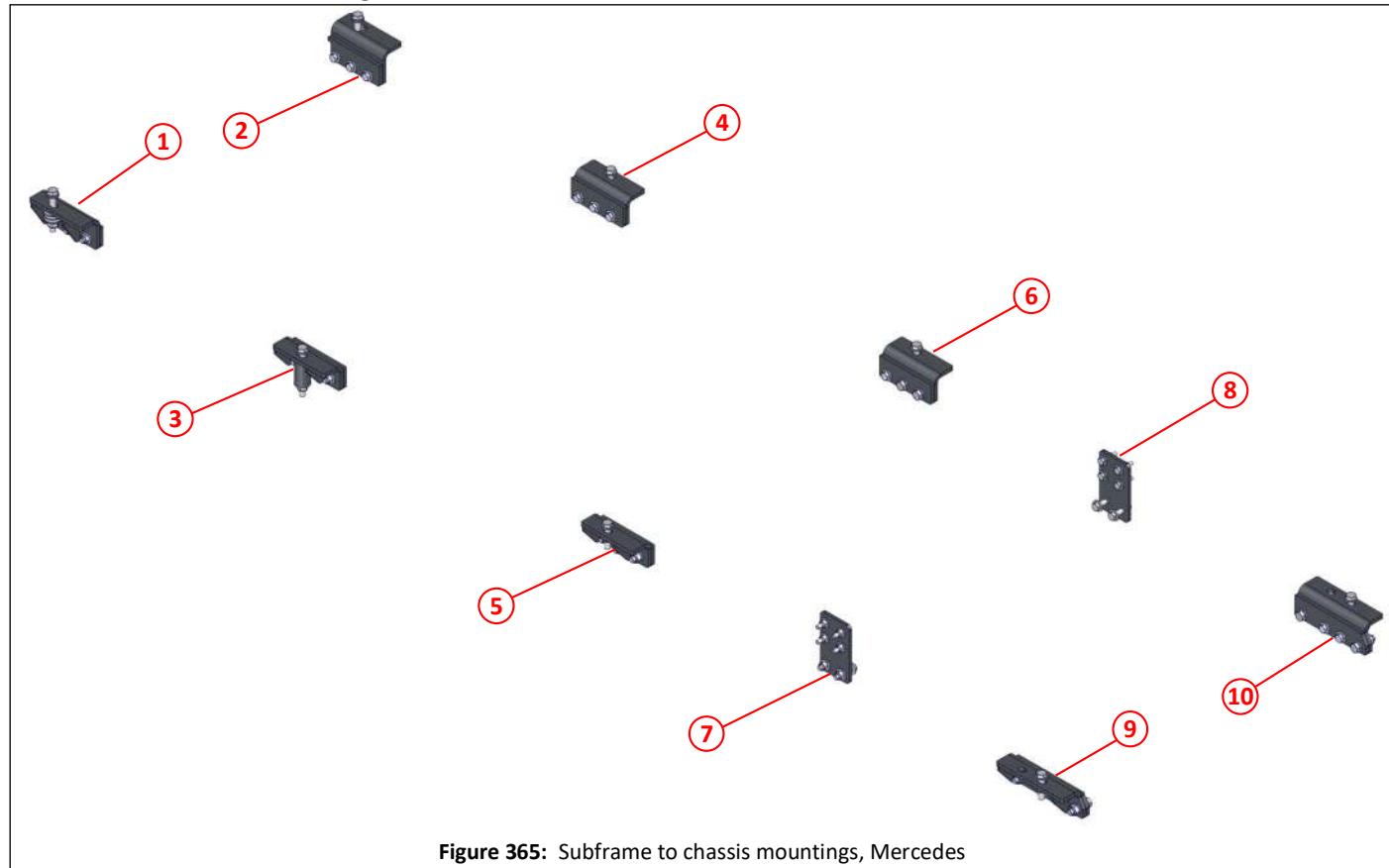
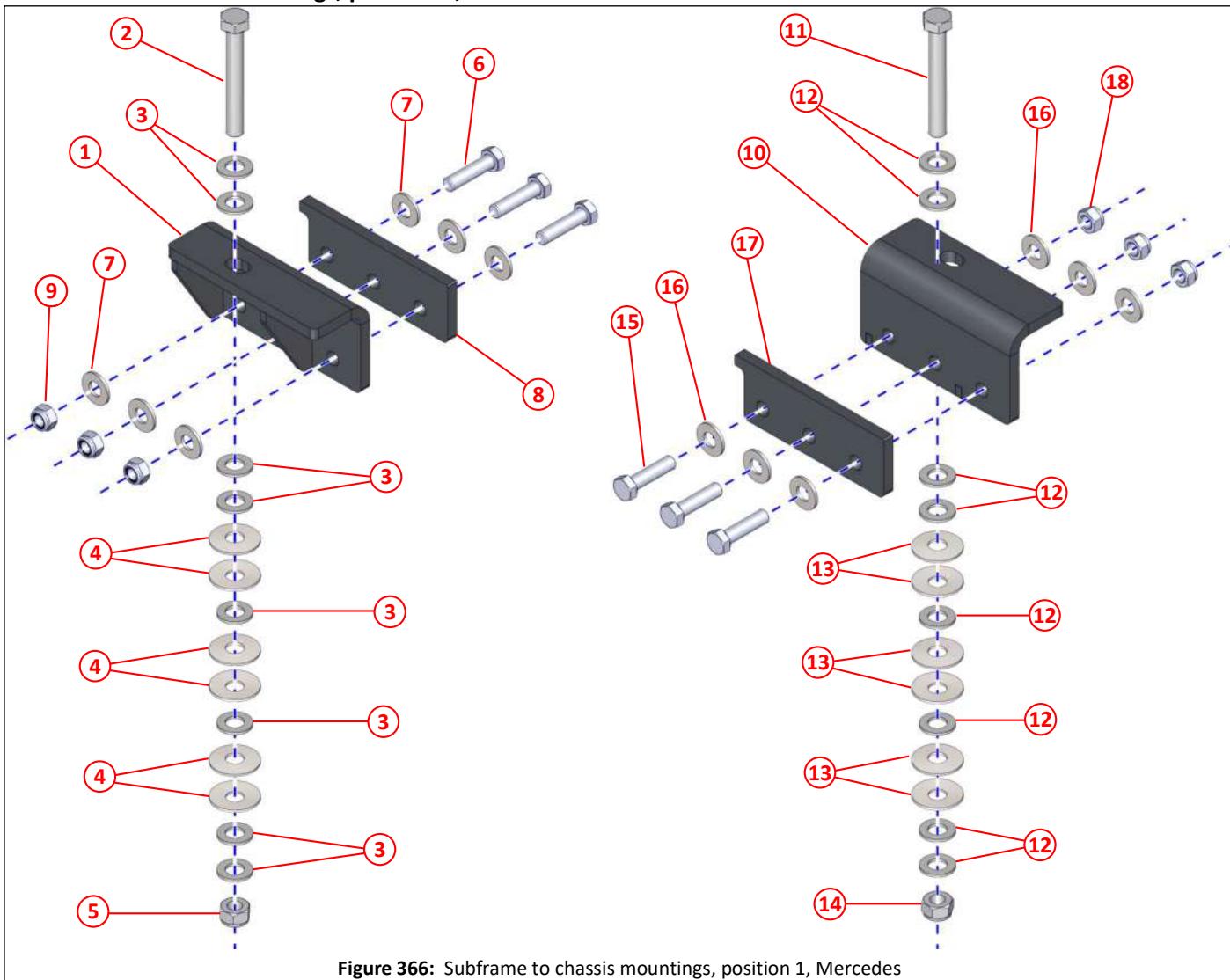


Figure 365: Subframe to chassis mountings, Mercedes

Item	Part No	Qty	Description	
①	045328	1	Chassis mounting bracket, position 1, left hand side, Mercedes	403
②	045239	1	Chassis mounting bracket, position 1, right hand side, Mercedes	403
③	045240	1	Chassis mounting bracket, position 2, left hand side, Mercedes	404
④	045241	1	Chassis mounting bracket, position 2, right hand side, Mercedes	404
⑤	045242	1	Chassis mounting bracket, position 3, left hand side, Mercedes	405
⑥	045243	1	Chassis mounting bracket, position 3, right hand side, Mercedes	405
⑦		1	Chassis lateral support, left hand side	400
⑧		1	Chassis lateral support, right hand side	408
⑨	045244	1	Chassis mounting bracket, position 4, left hand side, Mercedes	406
⑩	045245	1	Chassis mounting bracket, position 4, right hand side, Mercedes	406

i Please note that fixings shown are 'standard' and your actual sweeper may have different bolts, nuts and washers etc. than what is depicted. Quantities may also vary.
 The chassis mounting brackets shown are for specific manufacturer's chassis.

Please always contact Scarab Parts Department when needing to order mounting brackets and fixings with your sweepers Works No. to ensure we match what was originally supplied.

Subframe to chassis mountings, position 1, Mercedes

Figure 366: Subframe to chassis mountings, position 1, Mercedes

Item	Part No	Qty	Description	
①	045238	1	Bracket, chassis mounting, position 1, right hand side, Mercedes	402
②	000102	1	Bolt M14 x 100	
③	000073	8	Plain washer M14	
④	036824	6	Spring, disc	
⑤	000164	1	Nyloc nut M14	
⑥	000128	3	Set bolt M12 x 45 x 1.25	
⑦	011096	6	Plain washer M12	
⑧	045246	1	Packer, chassis mounting bracket, position 1	
⑨	011086	3	Nyloc nut M12 x 1.25	
⑩	045239	1	Bracket, chassis mounting, position 1, right hand side, Mercedes	402
⑪	000102	1	Bolt M14 x 100	
⑫	000073	8	Plain washer M14	
⑬	036824	6	Spring, disc	
⑭	000164	1	Nyloc nut M14	
⑮	000204	3	Set bolt M12 x 60 x 1.25	
⑯	011096	6	Plain washer M12	
⑰	045194	1	Packer, chassis mounting bracket, position 1	
⑱	011086	3	Nyloc nut M12 x 1.25	

Engine frame and subframe

Subframe to chassis mountings, position 2, Mercedes

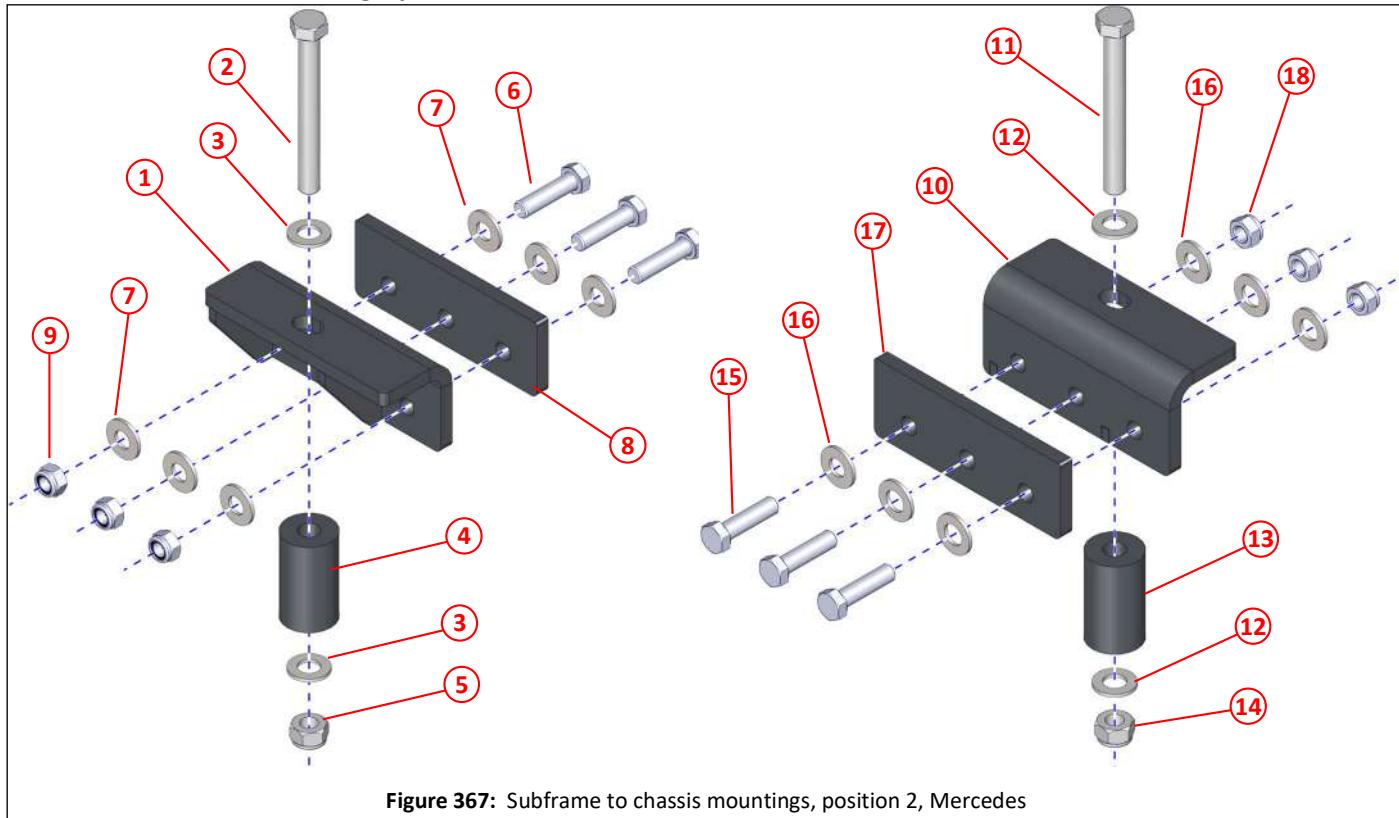
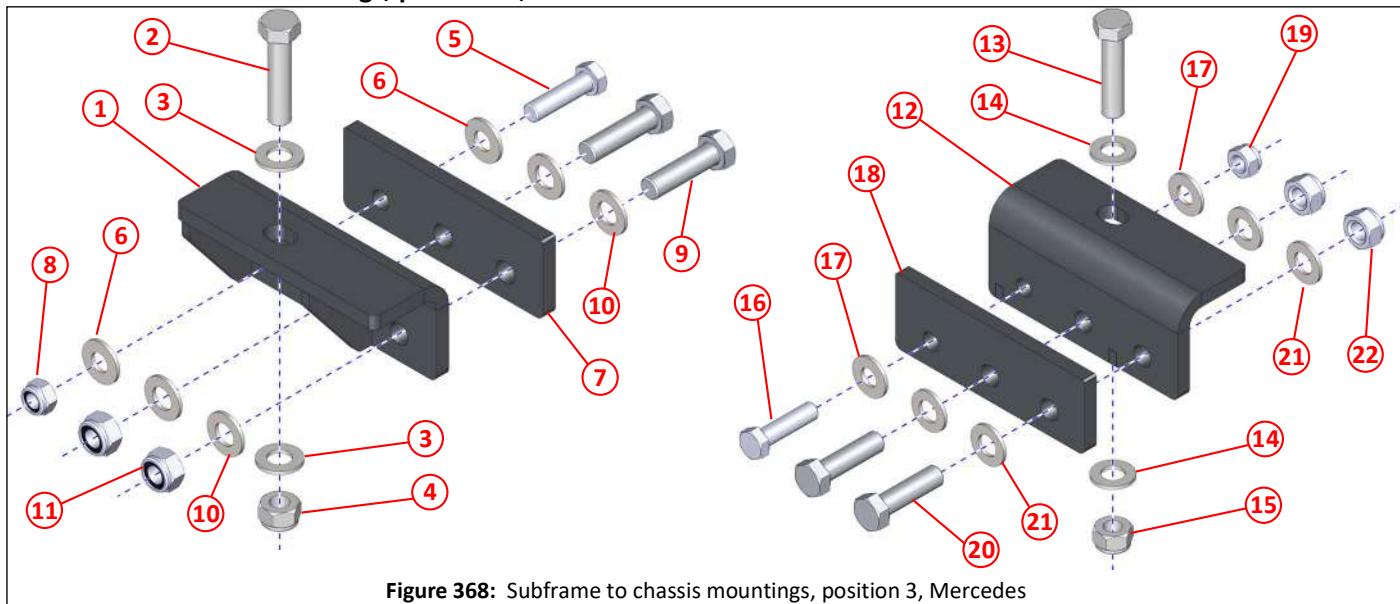


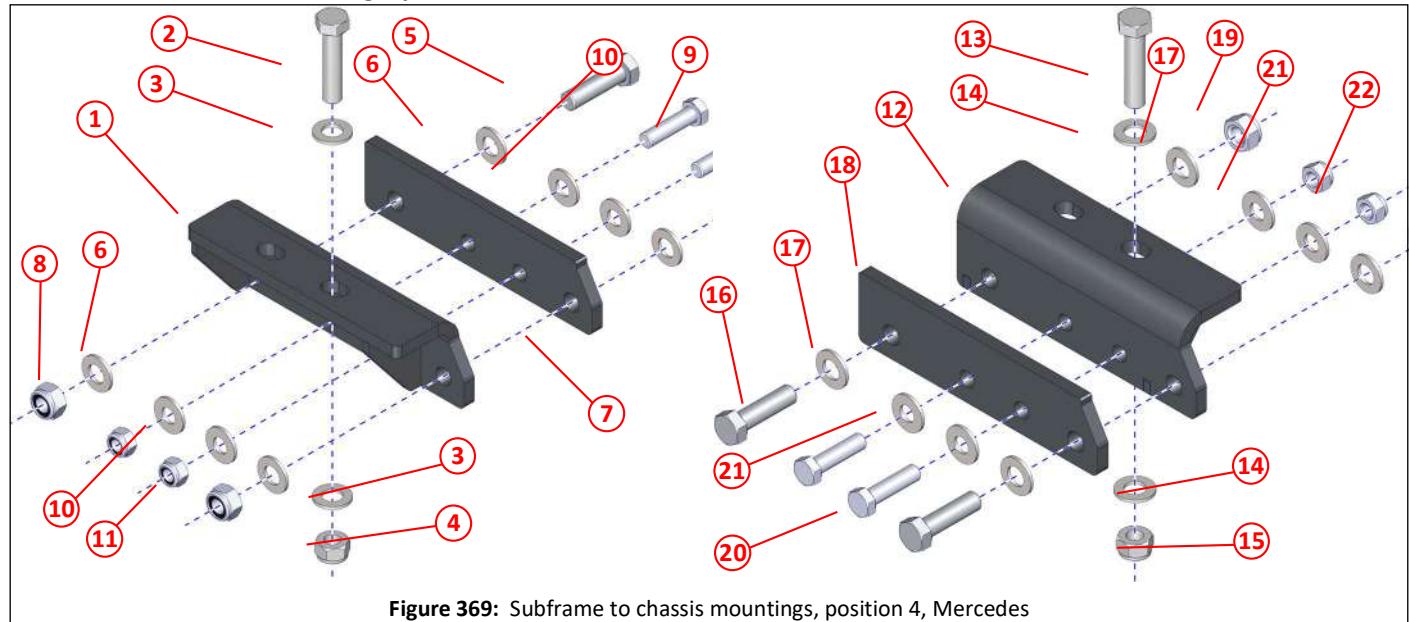
Figure 367: Subframe to chassis mountings, position 2, Mercedes

Item	Part No	Qty	Description	
①	045240	1	Bracket, chassis mounting, position 2, left hand side, Mercedes	402
②	000163	1	Bolt M14 x 120	
③	000073	2	Plain washer M14	
④	034909	1	Spacer ø15 x ø38 x 65	
⑤	000164	1	Nyloc nut M14	
⑥	000128	3	Set bolt M12 x 45 x 1.25	
⑦	011096	6	Plain washer M12	
⑧	045247	1	Packer, chassis mounting bracket, position 2, Mercedes	
⑨	011086	3	Nyloc nut M12 x 1.25	
⑩	045241	1	Bracket, chassis mounting, position 2, right hand side, Mercedes	402
⑪	000163	1	Bolt M14 x 120	
⑫	000073	2	Plain washer M14	
⑬	034909	1	Spacer ø15 x ø38 x 65	
⑭	000164	1	Nyloc nut M14	
⑮	000128	3	Set bolt M12 x 45 x 1.25	
⑯	011096	6	Plain washer M12	
⑰	045247	1	Packer, chassis mounting bracket, position 2, Mercedes	
⑱	011086	3	Nyloc nut M12 x 1.25	

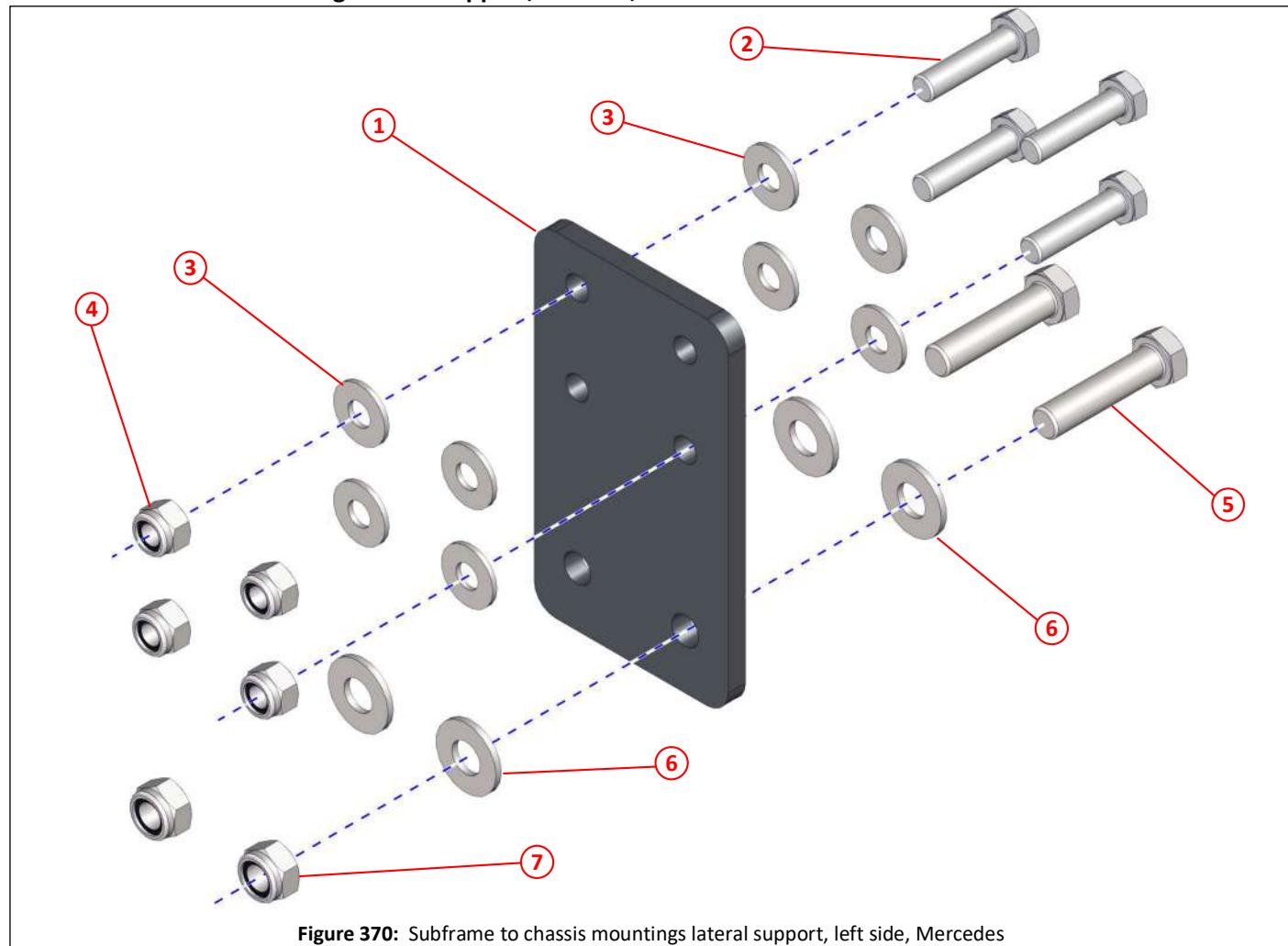
Subframe to chassis mountings, position 3, Mercedes


Item	Part No	Qty	Description	
①	045242	1	Bracket, chassis mounting, position 3, left hand side, Mercedes	402
②	000204	1	Bolt M14 x 60	
③	000073	2	Plain washer M14	
④	000164	1	Nyloc nut M14	
⑤	000128	1	Set bolt M12 x 60 x 1.25	
⑥	011096	2	Plain washer M12	
⑦	045248	1	Packer, chassis mounting bracket, position 3, Mercedes	
⑧	011086	1	Nyloc nut M12 x 1.25	
⑨	000375	2	Set screw M14 x 50 x 10.9	
⑩	000073	4	Plain washer M14	
⑪	000168	2	Nut M14 x 1.5 (fine) Type 'P'	
⑫	045243	1	Bracket, chassis mounting, position 3, right hand side, Mercedes	402
⑬	000204	1	Bolt M14 x 60	
⑭	000073	2	Plain washer M14	
⑮	000164	1	Nyloc nut M14	
⑯	000128	1	Set bolt M12 x 60 x 1.25	
⑰	011096	2	Plain washer M12	
⑱	045248	1	Packer, chassis mounting bracket, position 3, Mercedes	
⑲	011086	1	Nyloc nut M12 x 1.25	
⑳	000375	2	Set screw M14 x 50 x 10.9	
㉑	000073	4	Plain washer M14	
㉒	000168	2	Nut M14 x 1.5 (fine) Type 'P'	

Subframe to chassis mountings, position 4, Mercedes



Item	Part No	Qty	Description	
①	045244	1	Bracket, chassis mounting, position 4, left hand side, Mercedes	402
②	000204	1	Bolt M14 x 60	
③	000073	2	Plain washer M14	
④	000164	1	Nyloc nut M14	
⑤	000375	2	Set screw M14 x 50 x 10.9	
⑥	000073	4	Plain washer M14	
⑦	045249	1	Packer, chassis mounting bracket, position 4, Mercedes	
⑧	000168	2	Nut M14 x 1.5 (fine) Type 'P'	
⑨	000128	1	Set bolt M12 x 60 x 1.25	
⑩	011096	2	Plain washer M12	
⑪	011086	2	Nyloc nut M12 x 1.25	
⑫	045245	1	Bracket, chassis mounting, position 4, right hand side, Mercedes	402
⑬	000204	1	Bolt M14 x 60	
⑭	000073	2	Plain washer M14	
⑮	000164	1	Nyloc nut M14	
⑯	000375	2	Set screw M14 x 50 x 10.9	
⑰	000073	4	Plain washer M14	
⑱	045249	1	Packer, chassis mounting bracket, position 4, Mercedes	
⑲	000168	2	Nut M14 x 1.5 (fine) Type 'P'	
⑳	000128	1	Set bolt M12 x 60 x 1.25	
㉑	011096	2	Plain washer M12	
㉒	011086	2	Nyloc nut M12 x 1.25	

Subframe to chassis mountings lateral support, left side, Mercedes


Item	Part No	Qty	Description
①	040356	1	Bracket, lateral support, rear
②	011034	4	Set screw M10 x 40
③	011094	8	Plain washer M10
④	011075	4	Nyloc nut M10
⑤	000024	2	Bolt M12 x 50
⑥	011096	4	Plain washer M12
⑦	011077	2	Nyloc nut M12

Subframe to chassis mountings lateral support, right side, Mercedes

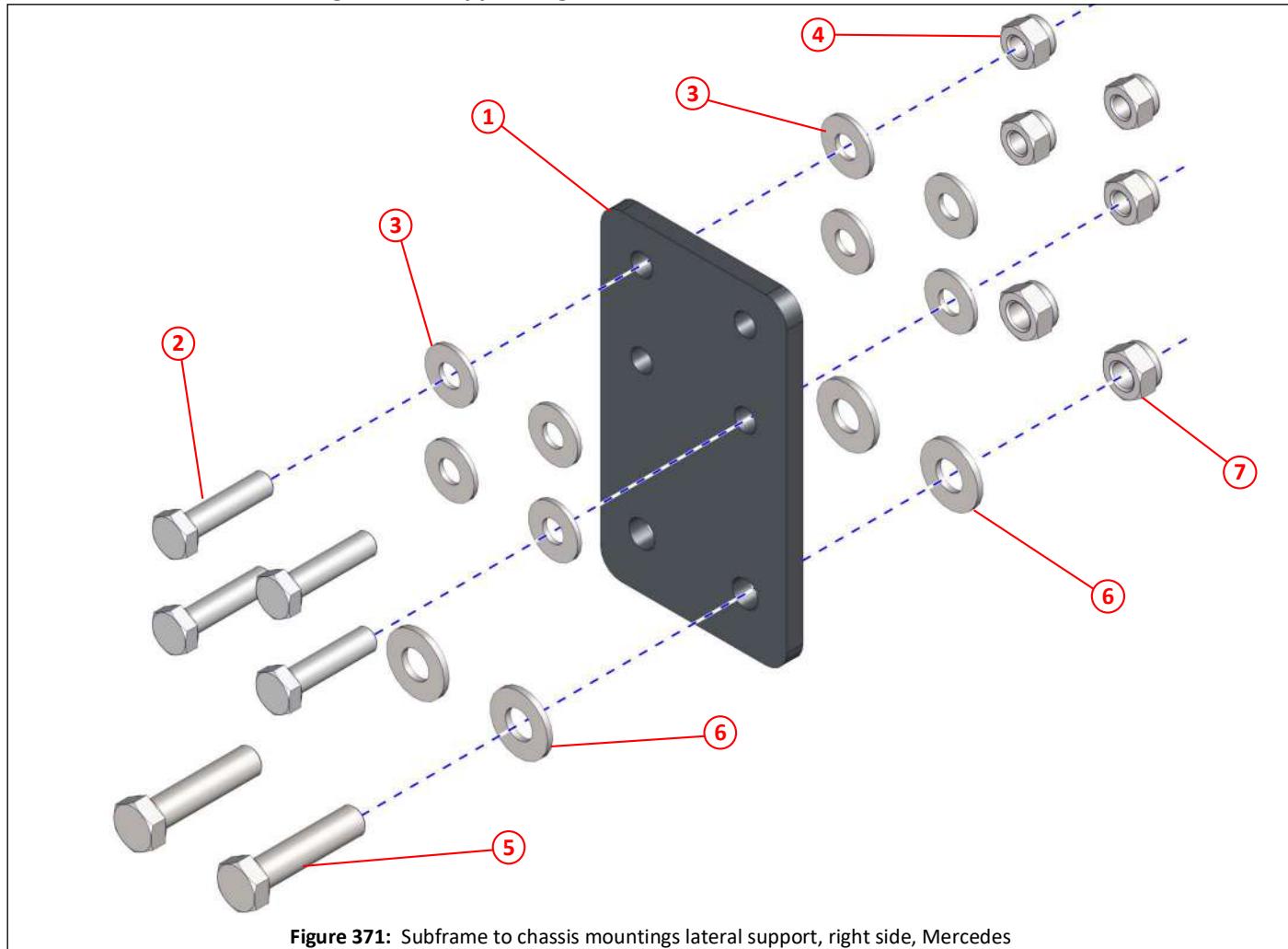
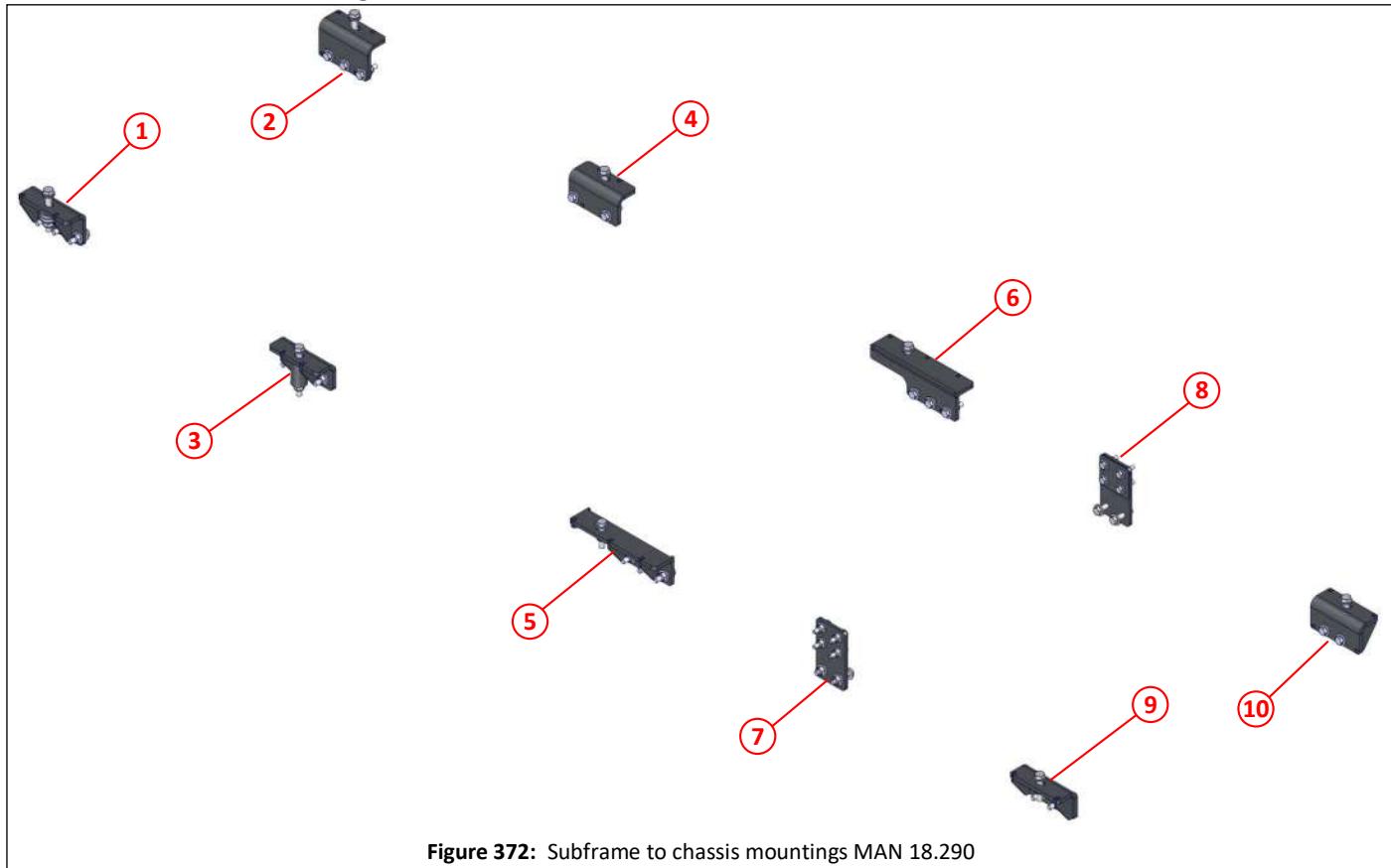


Figure 371: Subframe to chassis mountings lateral support, right side, Mercedes

Item	Part No	Qty	Description
①	040356	1	Bracket, lateral support, rear
②	011034	4	Set screw M10 x 40
③	011094	8	Plain washer M10
④	011075	4	Nyloc nut M10
⑤	000024	2	Bolt M12 x 50
⑥	011096	4	Plain washer M12
⑦	011077	2	Nyloc nut M12

Subframe to chassis mountings MAN 18.290

Figure 372: Subframe to chassis mountings MAN 18.290

Item	Part No	Qty	Description	
①	038629	1	Chassis mounting bracket, position 1, left hand side, MAN	410
②	038630	1	Chassis mounting bracket, position 1, right hand side, MAN	410
③	038631	1	Chassis mounting bracket, position 2, left hand side, MAN	411
④	038632	1	Chassis mounting bracket, position 2, right hand side, MAN	411
⑤	038633	1	Chassis mounting bracket, position 3, left hand side, MAN	412
⑥	038634	1	Chassis mounting bracket, position 3, right hand side, MAN	412
⑦		1	Chassis lateral support, left hand side	414
⑧		1	Chassis lateral support, right hand side	415
⑨	038635	1	Chassis mounting bracket, position 4, left hand side, MAN	413
⑩	038635	1	Chassis mounting bracket, position 4, right hand side, MAN	413

i Please note that fixings shown are 'standard' and your actual sweeper may have different bolts, nuts and washers etc. than what is depicted. Quantities may also vary.
The chassis mounting brackets shown are for specific manufacturer's chassis.

Please always contact Scarab Parts Department when needing to order mounting brackets and fixings with your sweepers Works No. to ensure we match what was originally supplied.

Engine frame and subframe

Subframe to chassis mountings, position 1, MAN

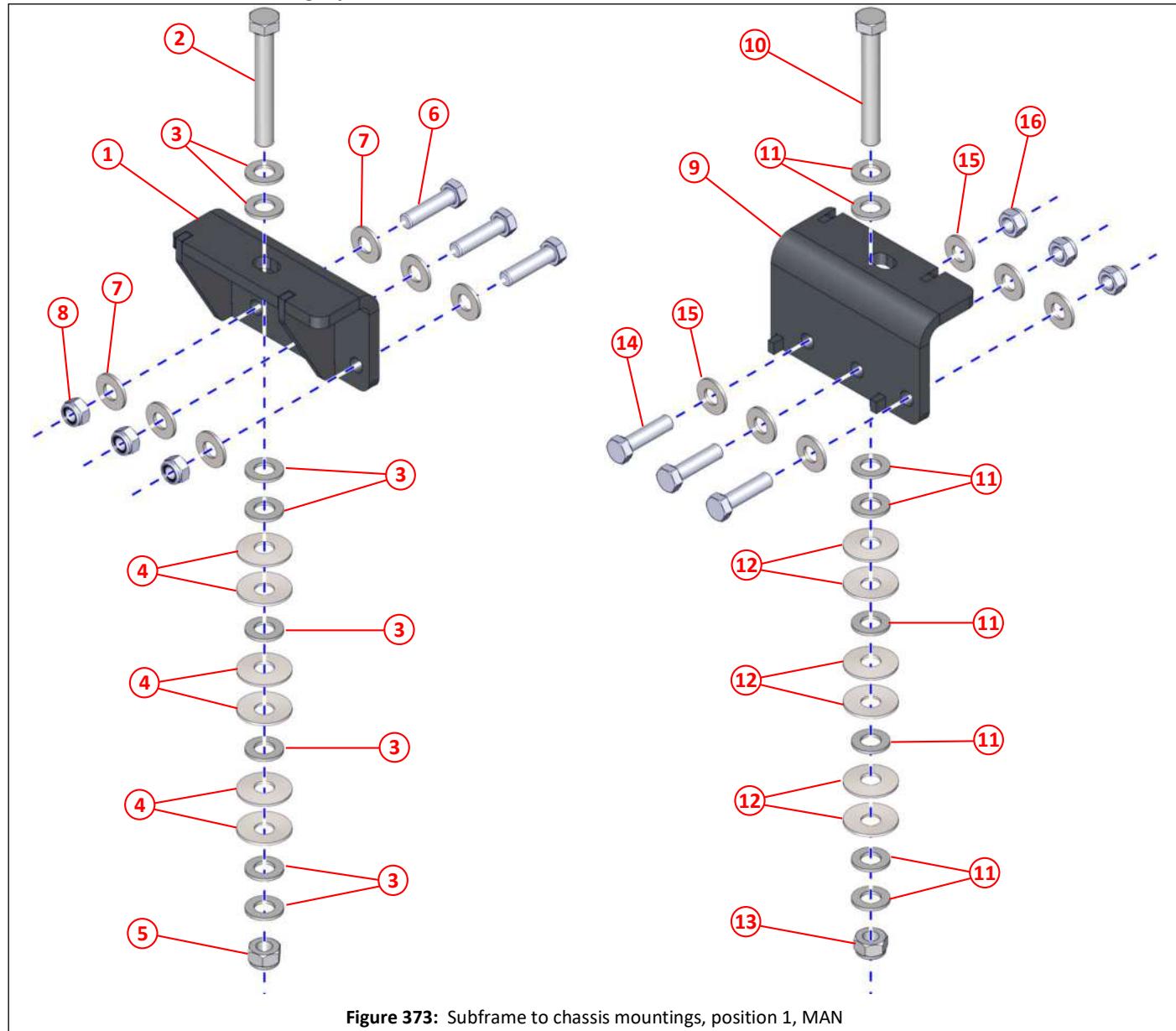
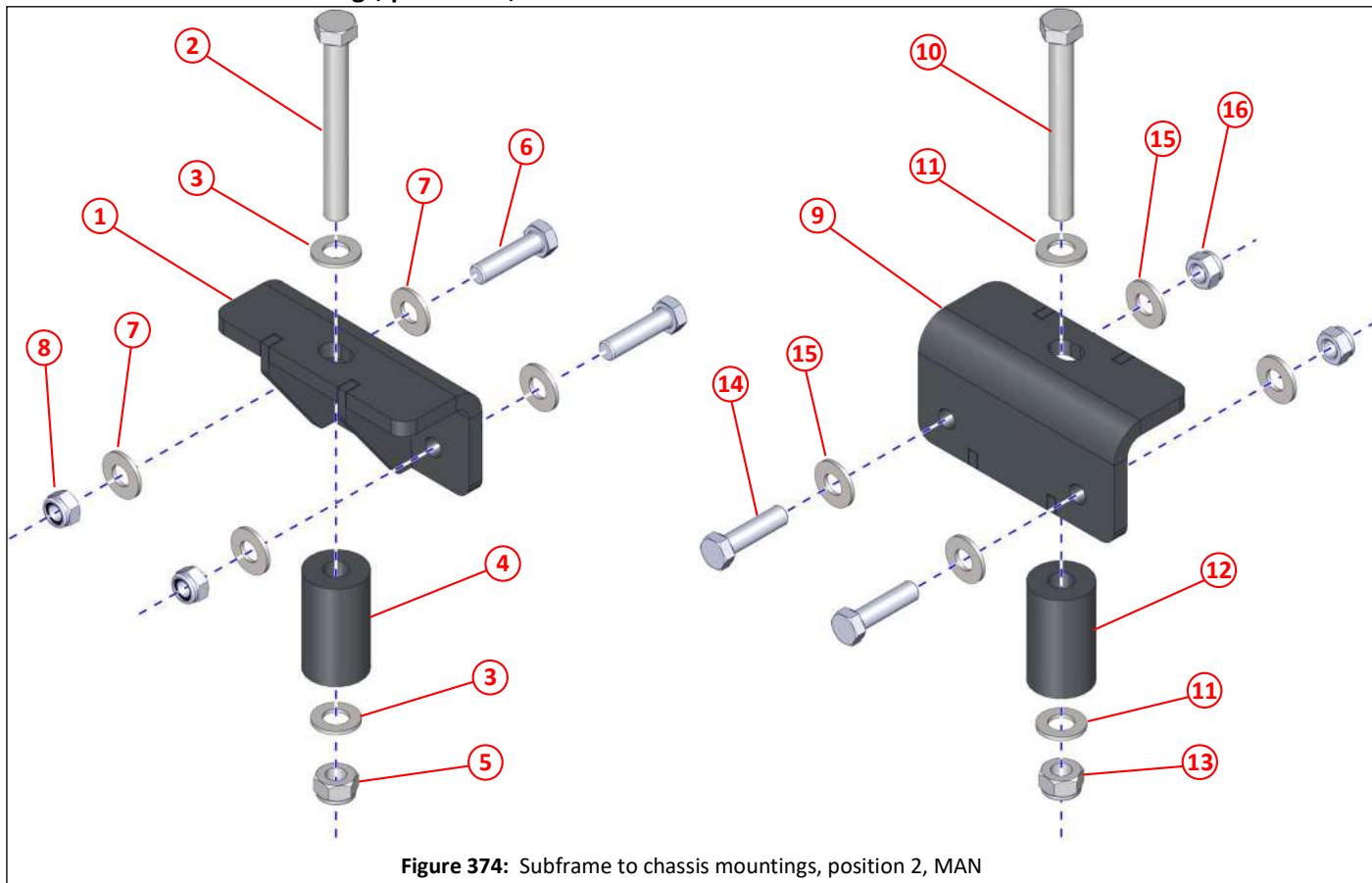


Figure 373: Subframe to chassis mountings, position 1, MAN

Item	Part No	Qty	Description	
①	038629	1	Chassis mounting bracket, position 1, left hand side, MAN	409
②	000102	1	Bolt M14 x 100	
③	000073	8	Plain washer M14	
④	036824	6	Spring, disc	
⑤	000164	1	Nyloc nut M14	
⑥	000128	3	Set bolt M12 x 45 x 1.25	
⑦	011096	6	Plain washer M12	
⑧	011086	3	Nyloc nut M12 x 1.25	
⑨	038630	1	Chassis mounting bracket, position 1, right hand side, MAN	409
⑩	000102	1	Bolt M14 x 100	
⑪	000073	8	Plain washer M14	
⑫	036824	6	Spring, disc	
⑬	000164	1	Nyloc nut M14	
⑭	000128	3	Set bolt M12 x 45 x 1.25	
⑮	011096	6	Plain washer M12	
⑯	011086	3	Nyloc nut M12 x 1.25	

Subframe to chassis mountings, position 2, MAN

Figure 374: Subframe to chassis mountings, position 2, MAN

Item	Part No	Qty	Description	
①	038631	1	Chassis mounting bracket, position 2, left hand side, MAN	409
②	000102	1	Bolt M14 x 100	
③	000073	2	Plain washer M14	
④	034909	1	Spacer ø15 x ø38 x 65	
⑤	000164	1	Nyloc nut M14	
⑥	000128	2	Set bolt M12 x 45 x 1.25	
⑦	011096	4	Plain washer M12	
⑧	011086	2	Nyloc nut M12 x 1.25	
⑨	038632	1	Chassis mounting bracket, position 2, right hand side, MAN	409
⑩	000102	1	Bolt M14 x 100	
⑪	000073	2	Plain washer M14	
⑫	034909	1	Spacer ø15 x ø38 x 65	
⑬	000164	1	Nyloc nut M14	
⑭	000128	2	Set bolt M12 x 45 x 1.25	
⑮	011096	4	Plain washer M12	
⑯	011086	2	Nyloc nut M12 x 1.25	

Subframe to chassis mountings, position 3, MAN

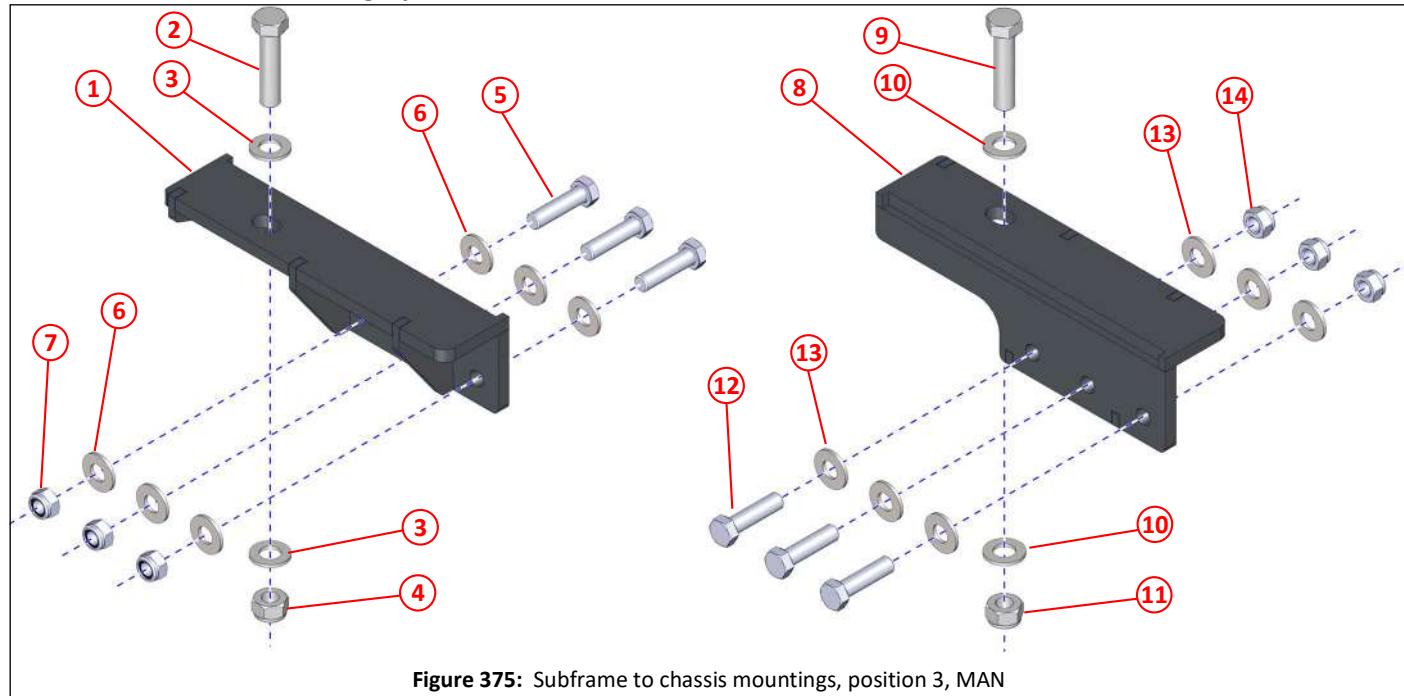
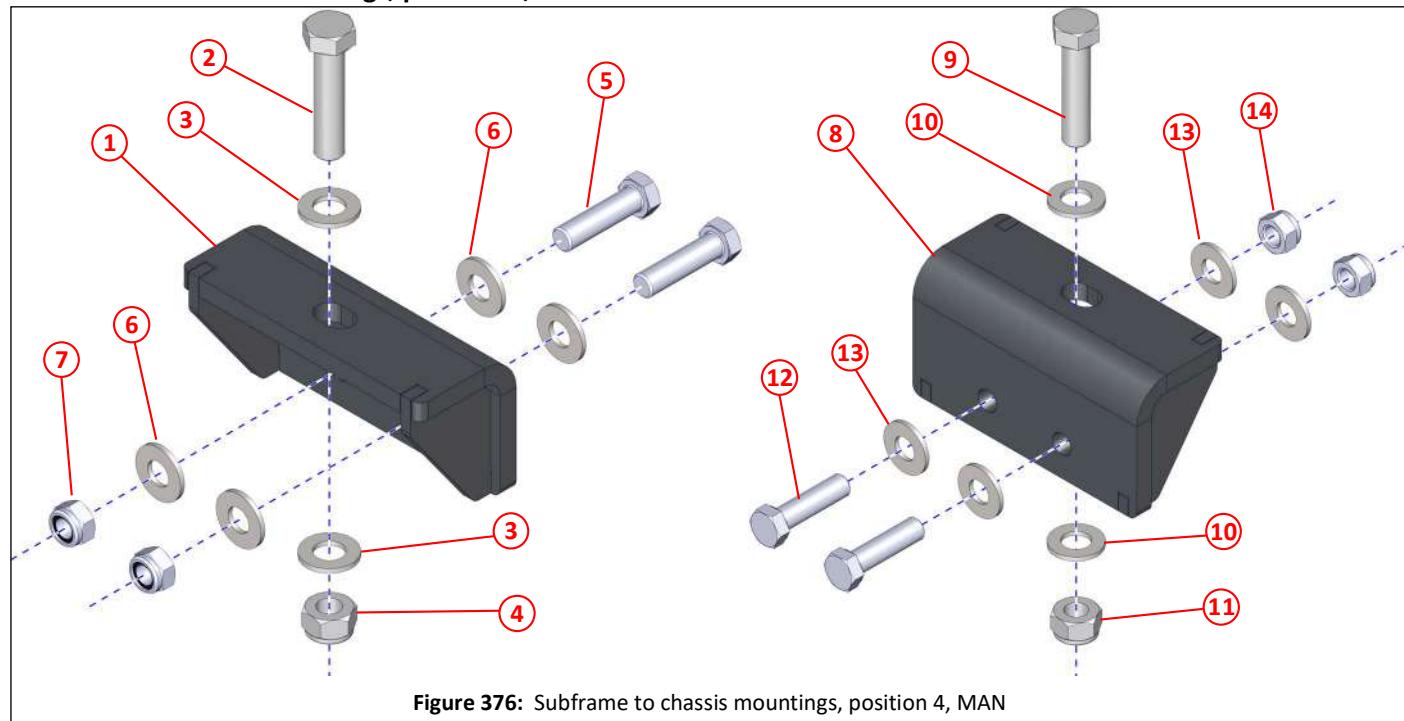


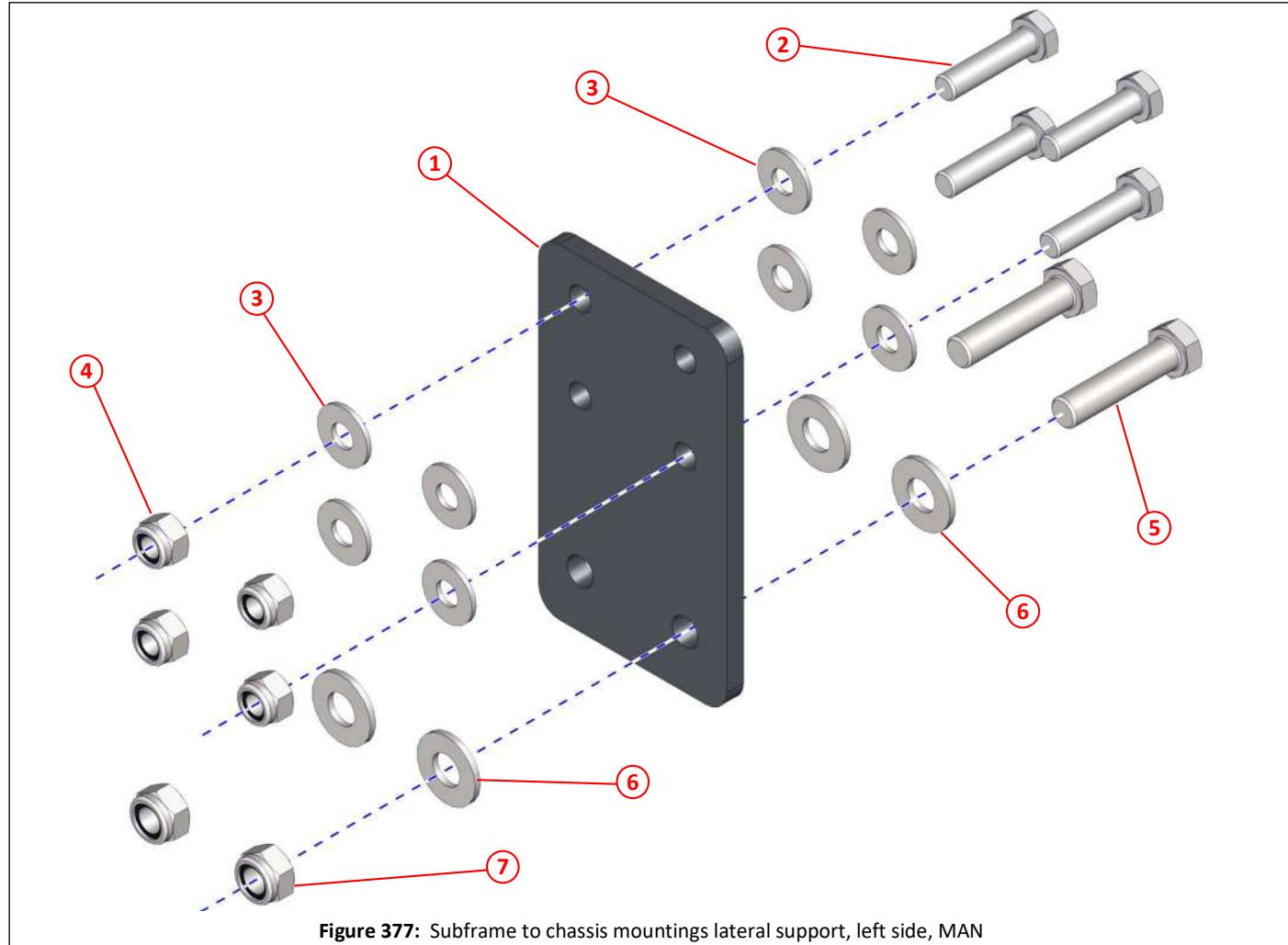
Figure 375: Subframe to chassis mountings, position 3, MAN

Item	Part No	Qty	Description	
①	038633	1	Chassis mounting bracket, position 3, left hand side, MAN	409
②	000204	1	Bolt M14 x 60	
③	000073	2	Plain washer M14	
④	000164	1	Nyloc nut M14	
⑤	000128	3	Set bolt M12 x 45 x 1.25	
⑥	011096	6	Plain washer M12	
⑦	011086	3	Nyloc nut M12 x 1.25	
⑧	038634	1	Chassis mounting bracket, position 3, right hand side, MAN	409
⑨	000204	1	Bolt M14 x 60	
⑩	000073	2	Plain washer M14	
⑪	000164	1	Nyloc nut M14	
⑫	000128	3	Set bolt M12 x 45 x 1.25	
⑬	011096	6	Plain washer M12	
⑭	011086	3	Nyloc nut M12 x 1.25	

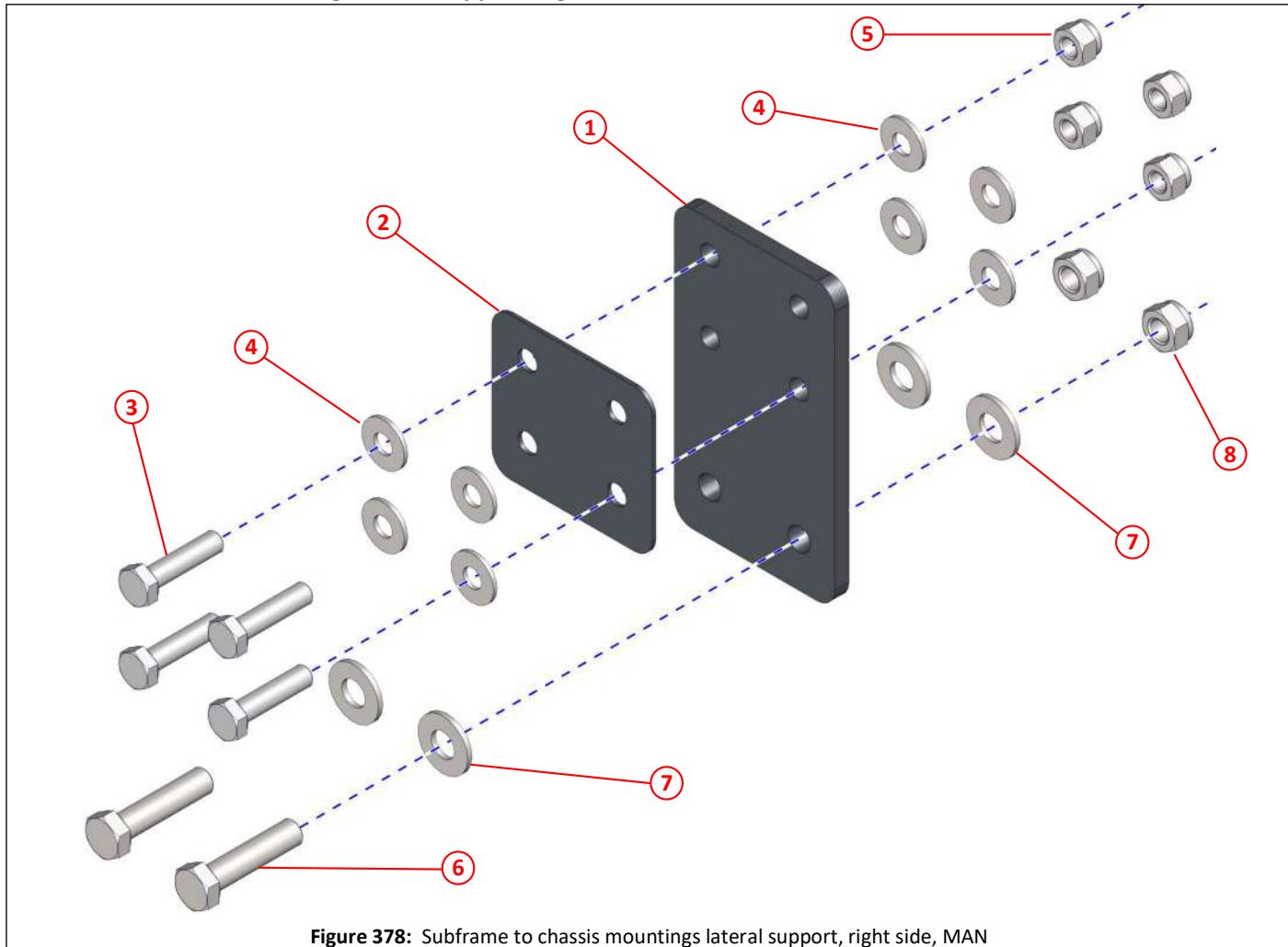
Subframe to chassis mountings, position 4, MAN


Item	Part No	Qty	Description	
①	038635	1	Chassis mounting bracket, position 4, left hand side, MAN	409
②	000204	1	Bolt M14 x 60	
③	000073	2	Plain washer M14	
④	000164	1	Nyloc nut M14	
⑤	000128	2	Set bolt M12 x 45 x 1.25	
⑥	011096	4	Plain washer M12	
⑦	011086	2	Nyloc nut M12 x 1.25	
⑧	038636	1	Chassis mounting bracket, position 4, right hand side, MAN	409
⑨	000204	1	Bolt M14 x 60	
⑩	000073	2	Plain washer M14	
⑪	000164	1	Nyloc nut M14	
⑫	000128	2	Set bolt M12 x 45 x 1.25	
⑬	011096	4	Plain washer M12	
⑭	011086	2	Nyloc nut M12 x 1.25	

Subframe to chassis mountings lateral support, left side, MAN



Item	Part No	Qty	Description
①	040356	1	Bracket, lateral support, rear
②	011034	4	Set screw M10 x 40
③	011094	8	Plain washer M10
④	011075	4	Nyloc nut M10
⑤	000024	2	Bolt M12 x 50
⑥	011096	4	Plain washer M12
⑦	011077	2	Nyloc nut M12

Subframe to chassis mountings lateral support, right side, MAN

Figure 378: Subframe to chassis mountings lateral support, right side, MAN

Item	Part No	Qty	Description	
①	040356	1	Bracket, lateral support, rear	
②	041309	1	Packer, subframe lateral support	
③	011034	4	Set screw M10 x 40	
④	011094	8	Plain washer M10	
⑤	011075	4	Nyloc nut M10	
⑥	000024	2	Bolt M12 x 50	
⑦	011096	4	Plain washer M12	
⑧	011077	2	Nyloc nut M12	

Subframe to chassis mountings, Freightliner M2 106

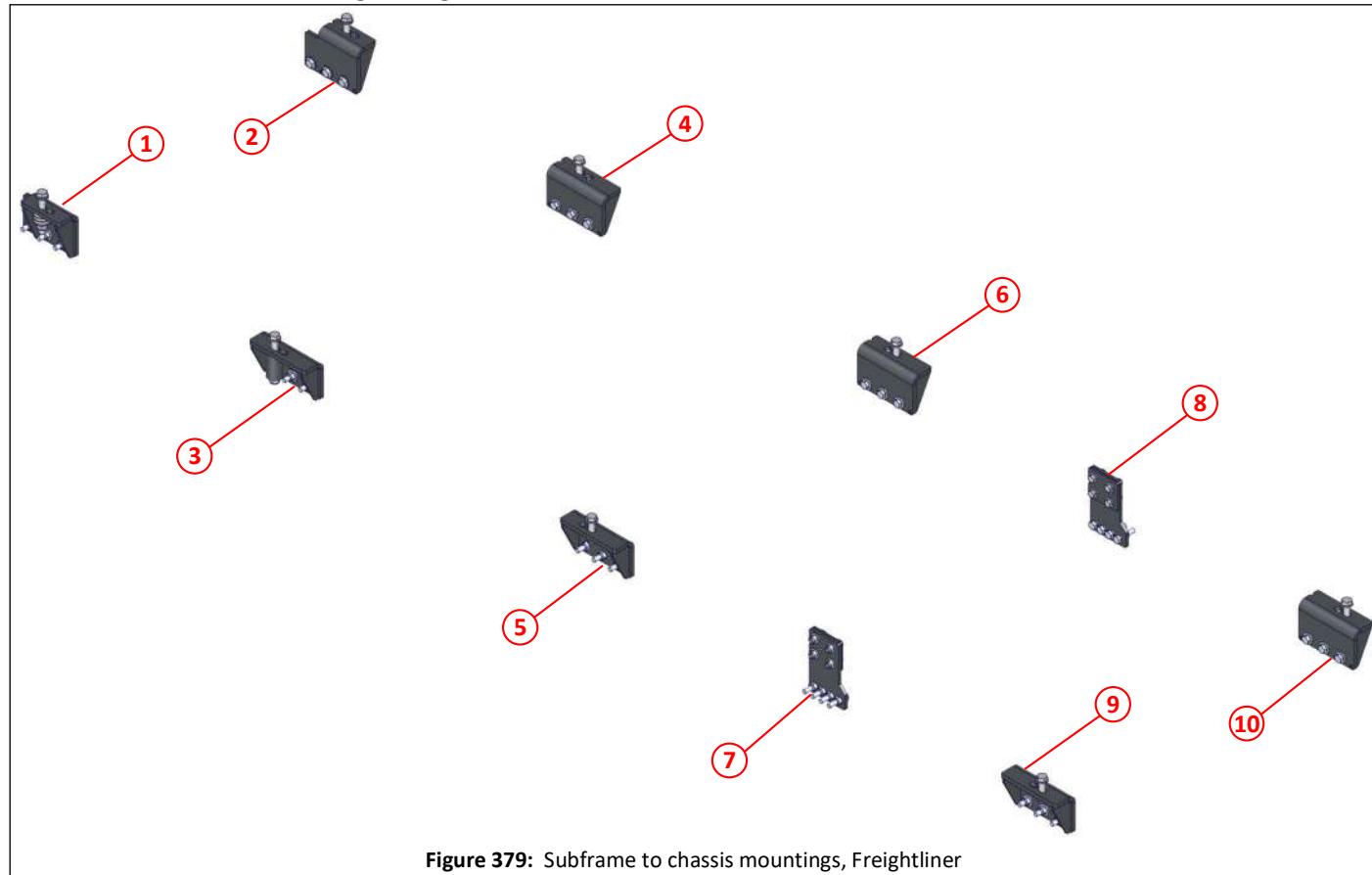
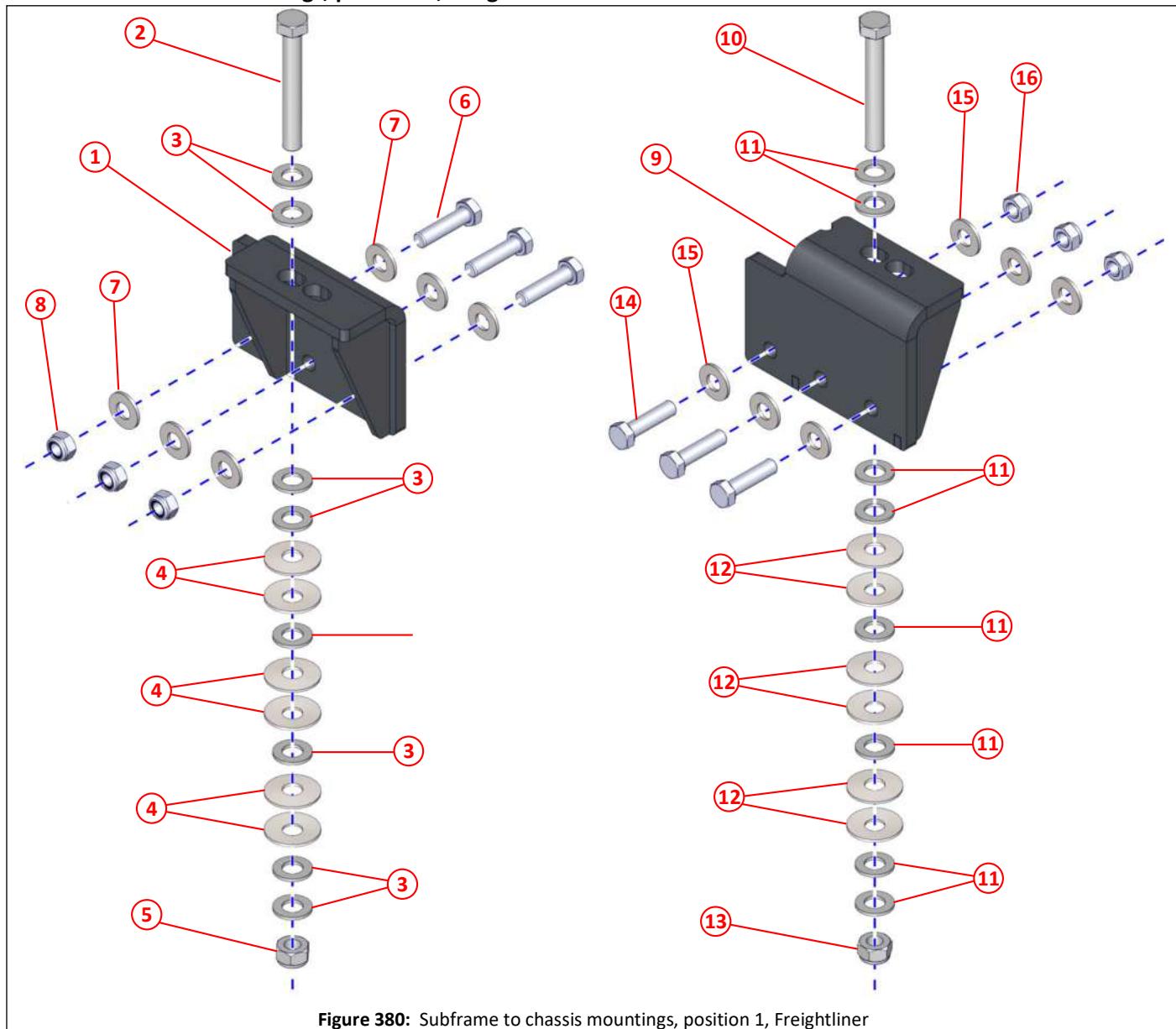


Figure 379: Subframe to chassis mountings, Freightliner

Item	Part No	Qty	Description	
①	045367	1	Chassis mounting bracket, position 1, left hand side, Freightliner	417
②	045368	1	Chassis mounting bracket, position 1, right hand side, Freightliner	417
③	045369	1	Chassis mounting bracket, position 2, left hand side, Freightliner	418
④	045370	1	Chassis mounting bracket, position 2, right hand side, Freightliner	418
⑤	045371	1	Chassis mounting bracket, position 3, left hand side, Freightliner	419
⑥	045372	1	Chassis mounting bracket, position 3, right hand side, Freightliner	419
⑦	045379	1	Chassis lateral support, left hand side, Freightliner	421
⑧	045379	1	Chassis lateral support, right hand side, Freightliner	422
⑨	045373	1	Chassis mounting bracket, position 4, left hand side, Freightliner	420
⑩	045374	1	Chassis mounting bracket, position 4, right hand side, Freightliner	420

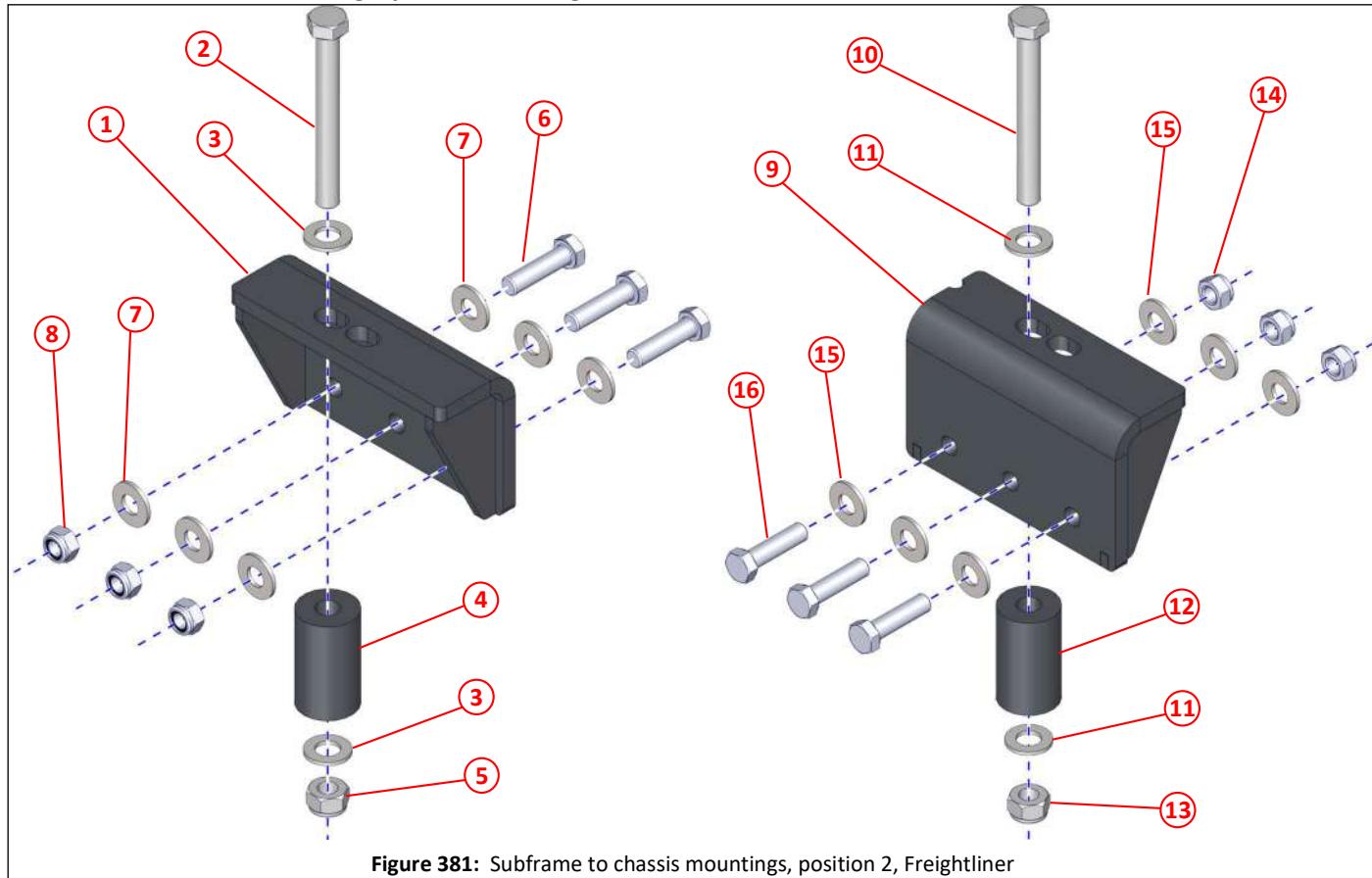
i Please note that fixings shown are 'standard' and your actual sweeper may have different bolts, nuts and washers etc. than what is depicted. Quantities may also vary.
 The chassis mounting brackets shown are for specific manufacturer's chassis.

Please always contact Scarab Parts Department when needing to order mounting brackets and fixings with your sweepers Works No. to ensure we match what was originally supplied.

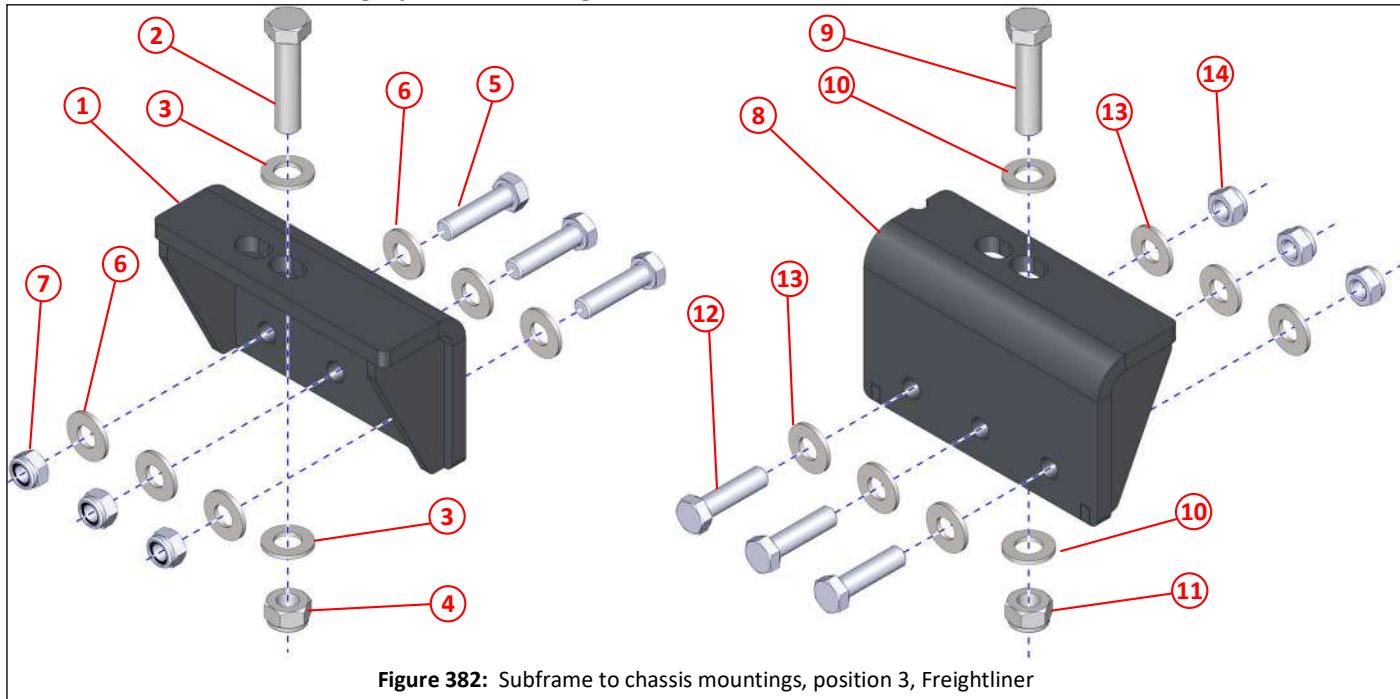
Subframe to chassis mountings, position 1, Freightliner

Figure 380: Subframe to chassis mountings, position 1, Freightliner

Item	Part No	Qty	Description	
①	045367	1	Chassis mounting bracket, position 1, left hand side, Freightliner	416
②	000102	1	Bolt M14 x 100	
③	000073	8	Plain washer M14	
④	036824	6	Spring, disc	
⑤	000164	1	Nyloc nut M14	
⑥	000128	3	Set bolt M12 x 45 x 1.25	
⑦	011096	6	Plain washer M12	
⑧	011086	3	Nyloc nut M12 x 1.25	
⑨	045368	1	Chassis mounting bracket, position 1, right hand side, Freightliner	416
⑩	000102	1	Bolt M14 x 100	
⑪	000073	8	Plain washer M14	
⑫	036824	6	Spring, disc	
⑬	000164	1	Nyloc nut M14	
⑭	000128	3	Set bolt M12 x 45 x 1.25	
⑮	011096	6	Plain washer M12	
⑯	011086	3	Nyloc nut M12 x 1.25	

Subframe to chassis mountings, position 2, Freightliner



Item	Part No	Qty	Description	
①	045369	1	Chassis mounting bracket, position 2, left hand side, Freightliner	416
②	000163	1	Bolt M14 x 120	
③	000073	2	Plain washer M14	
④	034909	1	Spacer ø15 x ø38 x 65	
⑤	000164	1	Nyloc nut M14	
⑥	000128	3	Set bolt M12 x 45 x 1.25	
⑦	011096	6	Plain washer M12	
⑧	011086	3	Nyloc nut M12 x 1.25	
⑨	04530	1	Chassis mounting bracket, position 2, right hand side, Freightliner	416
⑩	000163	1	Bolt M14 x 120	
⑪	000073	2	Plain washer M14	
⑫	034909	1	Spacer ø15 x ø38 x 65	
⑬	000164	1	Nyloc nut M14	
⑭	000128	3	Set bolt M12 x 45 x 1.25	
⑮	011096	6	Plain washer M12	
⑯	011086	3	Nyloc nut M12 x 1.25	

Subframe to chassis mountings, position 3, Freightliner


Item	Part No	Qty	Description	
①	045371	1	Chassis mounting bracket, position 3, left hand side, Freightliner	416
②	000204	1	Bolt M14 x 60	
③	000073	2	Plain washer M14	
④	000164	1	Nyloc nut M14	
⑤	000128	3	Set bolt M12 x 45 x 1.25	
⑥	011096	6	Plain washer M12	
⑦	011086	3	Nyloc nut M12 x 1.25	
⑧	045372	1	Chassis mounting bracket, position 3, right hand side, Freightliner	416
⑨	000204	1	Bolt M14 x 60	
⑩	000073	2	Plain washer M14	
⑪	000164	1	Nyloc nut M14	
⑫	000128	3	Set bolt M12 x 45 x 1.25	
⑬	011096	6	Plain washer M12	
⑭	011086	3	Nyloc nut M12 x 1.25	

Engine frame and subframe

Subframe to chassis mountings, position 4, Freightliner

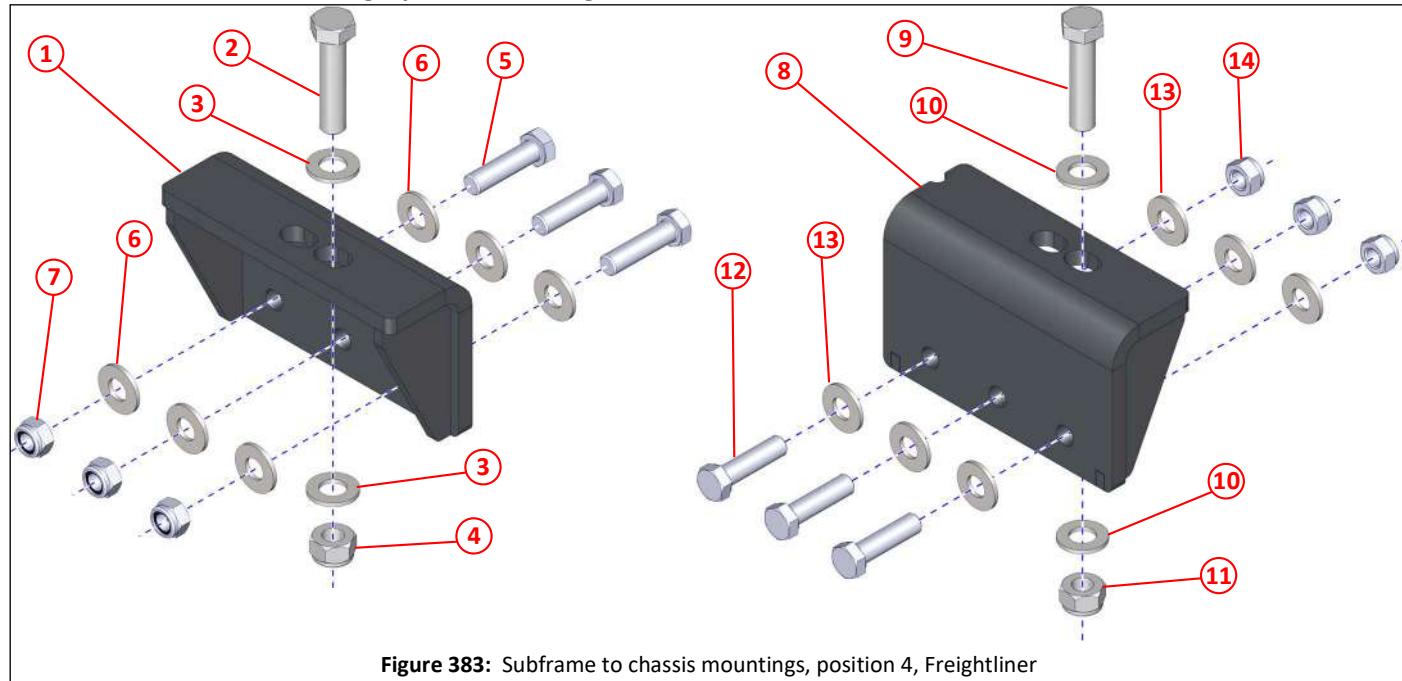
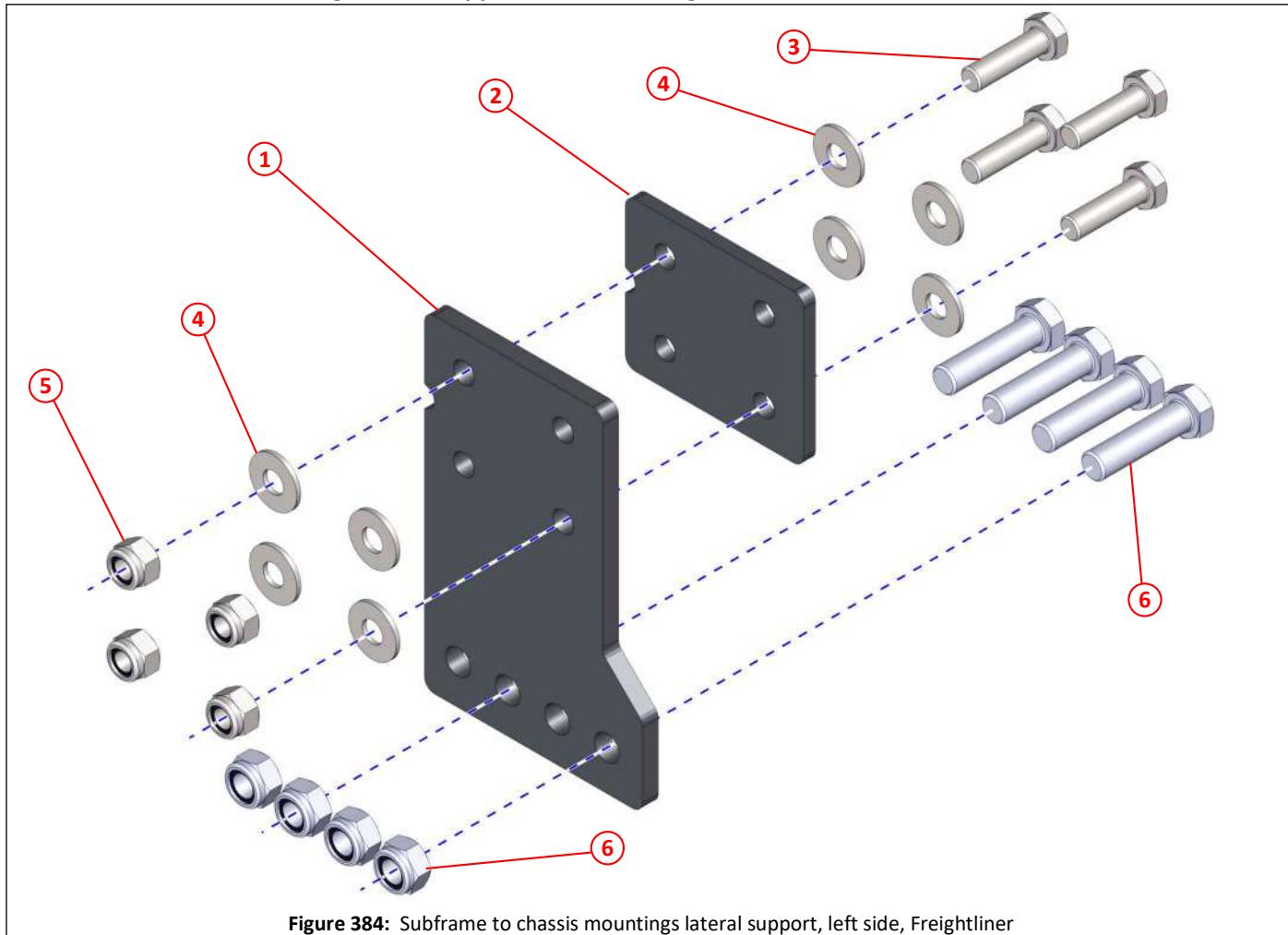


Figure 383: Subframe to chassis mountings, position 4, Freightliner

Item	Part No	Qty	Description	
①	045373	1	Chassis mounting bracket, position 4, left hand side, Freightliner	416
②	000204	1	Bolt M14 x 60	
③	000073	2	Plain washer M14	
④	000164	1	Nyloc nut M14	
⑤	000128	3	Set bolt M12 x 45 x 1.25	
⑥	011096	6	Plain washer M12	
⑦	011086	3	Nyloc nut M12 x 1.25	
⑧	045374	1	Chassis mounting bracket, position 4, right hand side, Freightliner	416
⑨	000204	1	Bolt M14 x 60	
⑩	000073	2	Plain washer M14	
⑪	000164	1	Nyloc nut M14	
⑫	000128	3	Set bolt M12 x 45 x 1.25	
⑬	011096	6	Plain washer M12	
⑭	011086	3	Nyloc nut M12 x 1.25	

Subframe to chassis mountings lateral support, left side, Freightliner

Figure 384: Subframe to chassis mountings lateral support, left side, Freightliner

Item	Part No	Qty	Description	
①	045379	1	Chassis lateral support, left hand side, Freightliner	416
②	045380	1	Packer, chassis lateral support, left hand side, Freightliner	
③	011033	4	Set screw M10 x 35	
④	011094	8	Plain washer M10	
⑤	011075	4	Nyloc nut M19	
⑥	000128	4	Set bolt M12 x 45 x 1.25	
⑦	011086	4	Nyloc nut M12	

Subframe to chassis mountings lateral support, right side, Freightliner

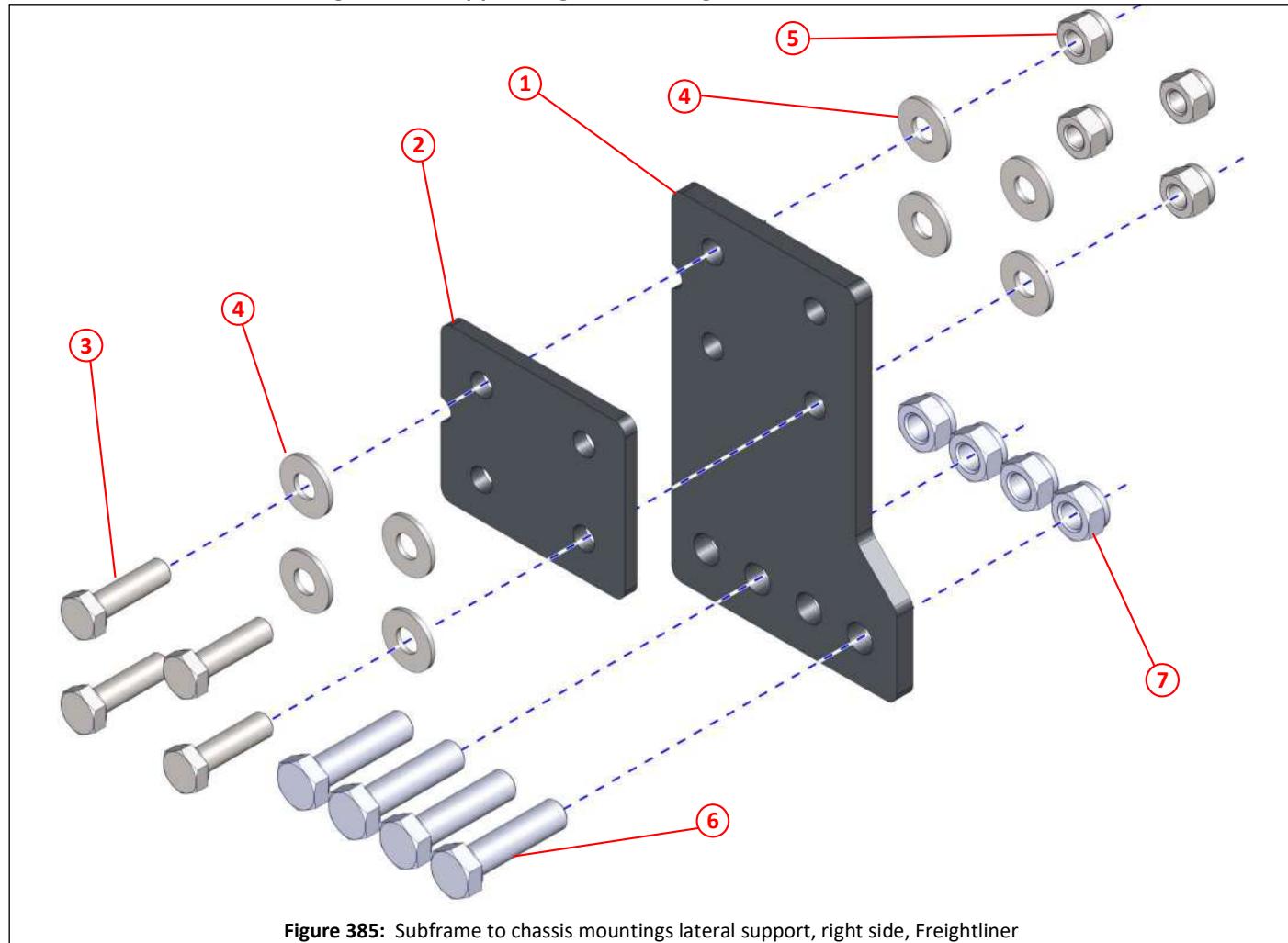


Figure 385: Subframe to chassis mountings lateral support, right side, Freightliner

Item	Part No	Qty	Description	
①	045379	1	Chassis lateral support, left hand side, Freightliner	416
②	045380	1	Packer, chassis lateral support, left hand side, Freightliner	
③	011033	4	Set screw M10 x 35	
④	011094	8	Plain washer M10	
⑤	011075	4	Nyloc nut M19	
⑥	000128	4	Set bolt M12 x 45 x 1.25	
⑦	011086	4	Nyloc nut M12	

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General layout, engine

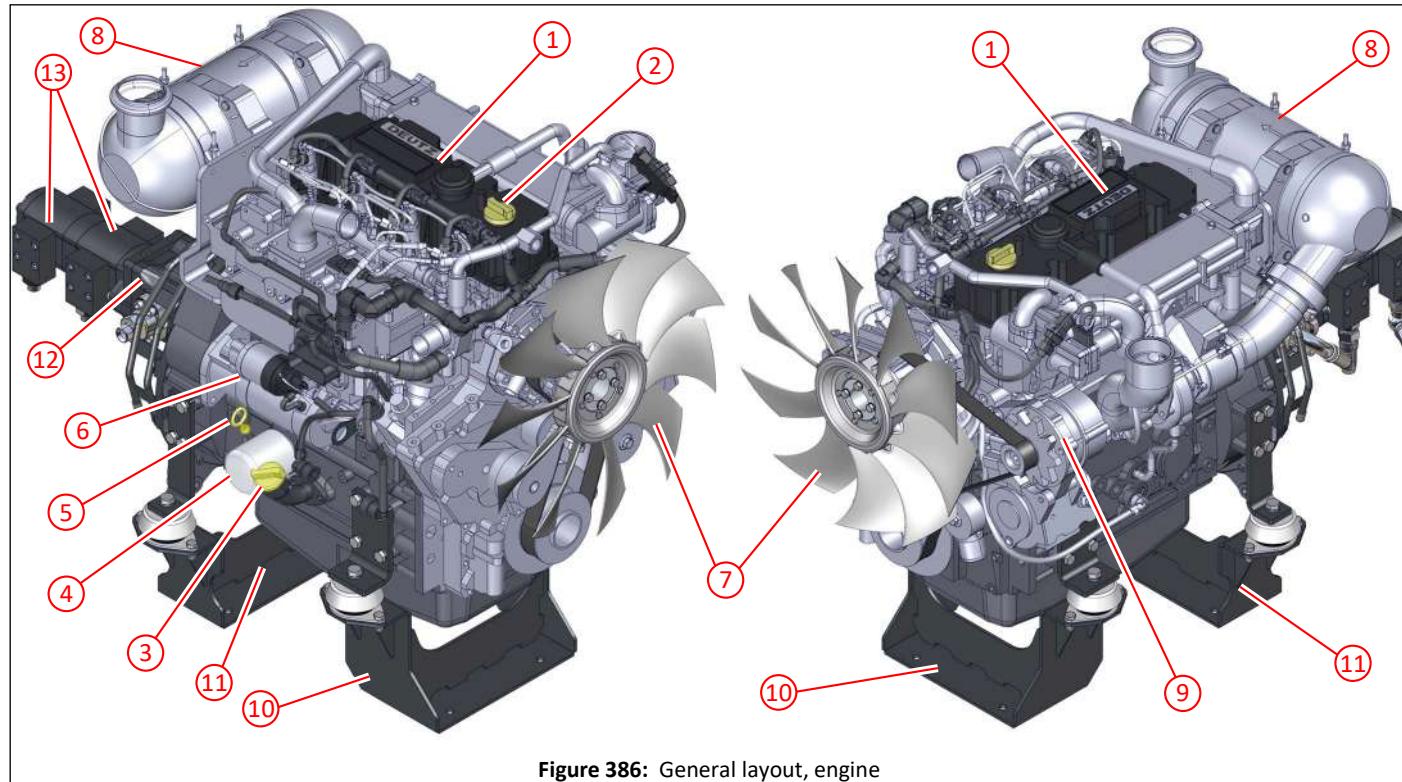
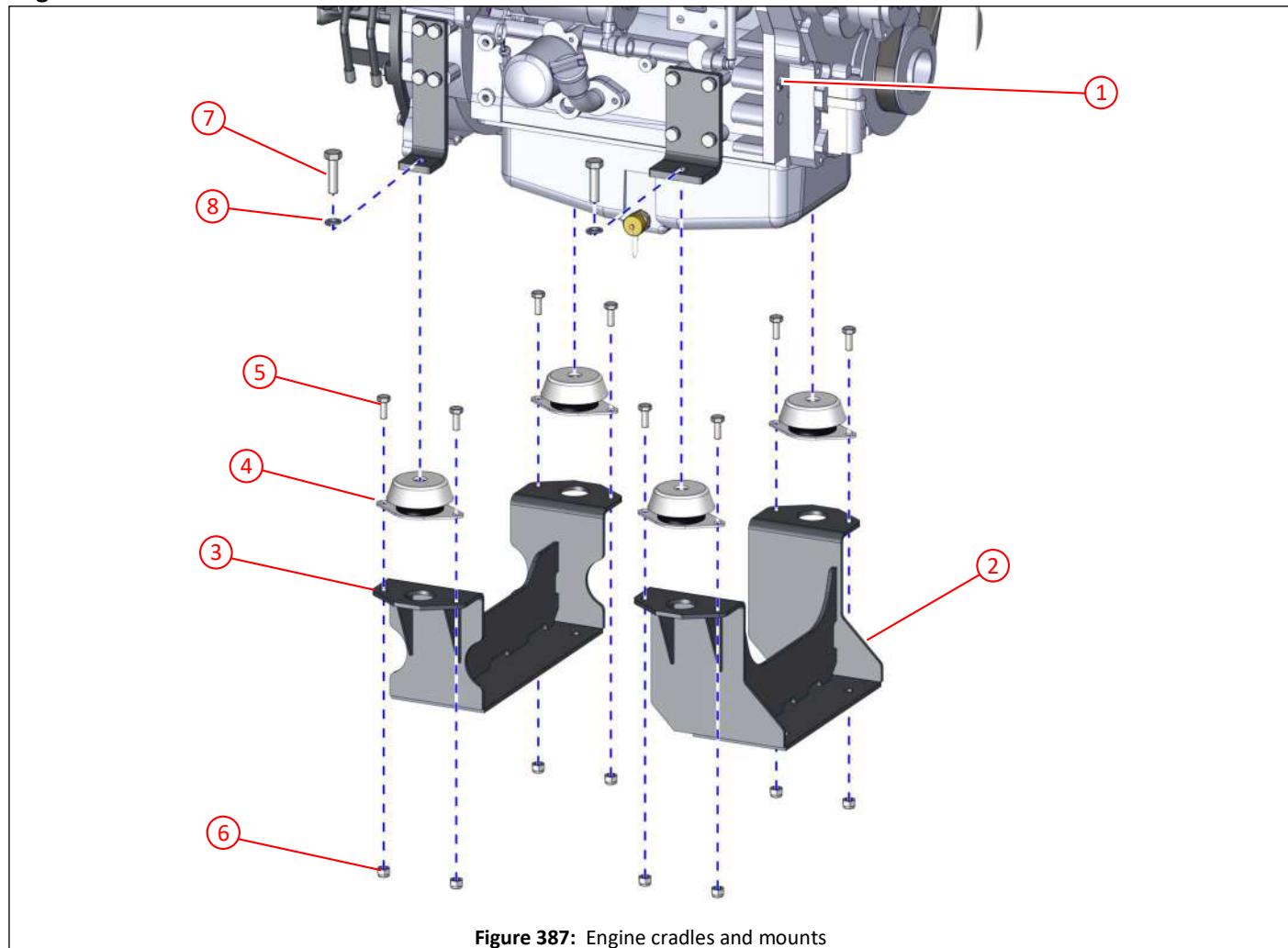


Figure 386: General layout, engine

Item	Part No	Qty	Description	
①		1	DEUTZ TCD 3.6 L4 engine	432
②	043781	1	Filler cap, engine oil, rocker box	
③	043781	1	Filler cap, engine oil, engine side	
④	042232	1	Filter, engine oil	
⑤	043222	1	Dipstick	438
⑥	043795	1	Starter motor, 24v	429
⑦	044516	1	Starter motor, 12v	429
⑧		1	Cooling fan assembly	427
⑨	TBA	1	Diesel particle filter (DPF)	
⑩	043816	1	Alternator, 28v 55A, 24v	428
⑪	044517	1	Alternator, 14v 95A, 12v	428
⑫	042809	1	Engine cradle, front	358
⑬	042810	1	Engine cradle, rear	357
⑭		1	Fan pump	252,253
⑮		2	Gear pumps	252,254

i Please be aware that this page and the following pages have both 24v and 12v components. Please ensure you select the correct voltage part for your vehicle.

Engine cradles and mounts


Item	Part No	Qty	Description	
①		1	DEUTZ TCD 3.6 L4 engine	432
②	042809	1	Engine cradle, front	358
③	042810	1	Engine cradle, rear	357
④	030724	4	Engine mount	426
⑤	011031	8	Set screw M10 x 25	
⑥	011075	8	Nyloc nut M10	
⑦	011403	4	Bolt M14 x 50	
⑧	011106	4	Spring washer M14	

Engine mountings

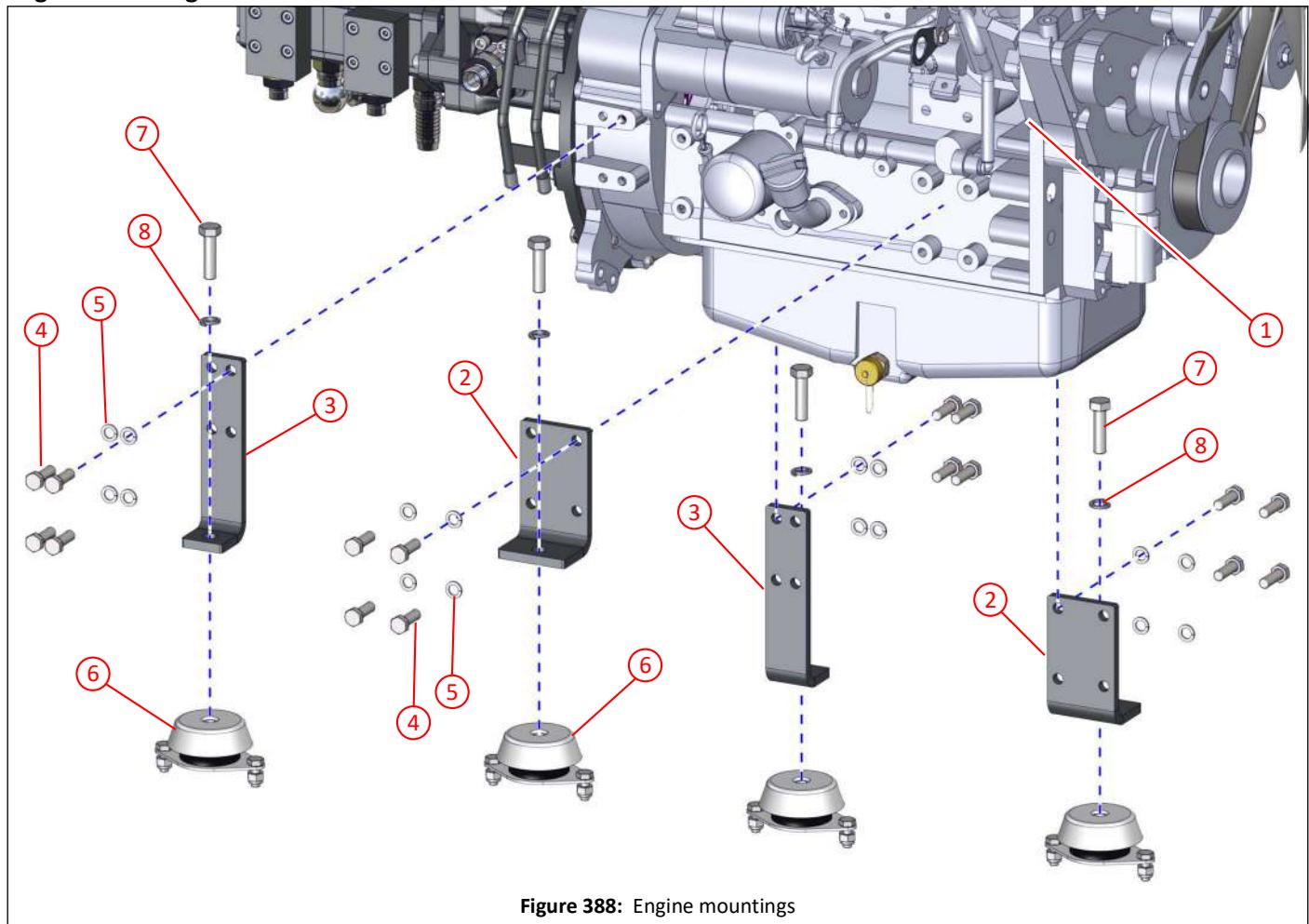
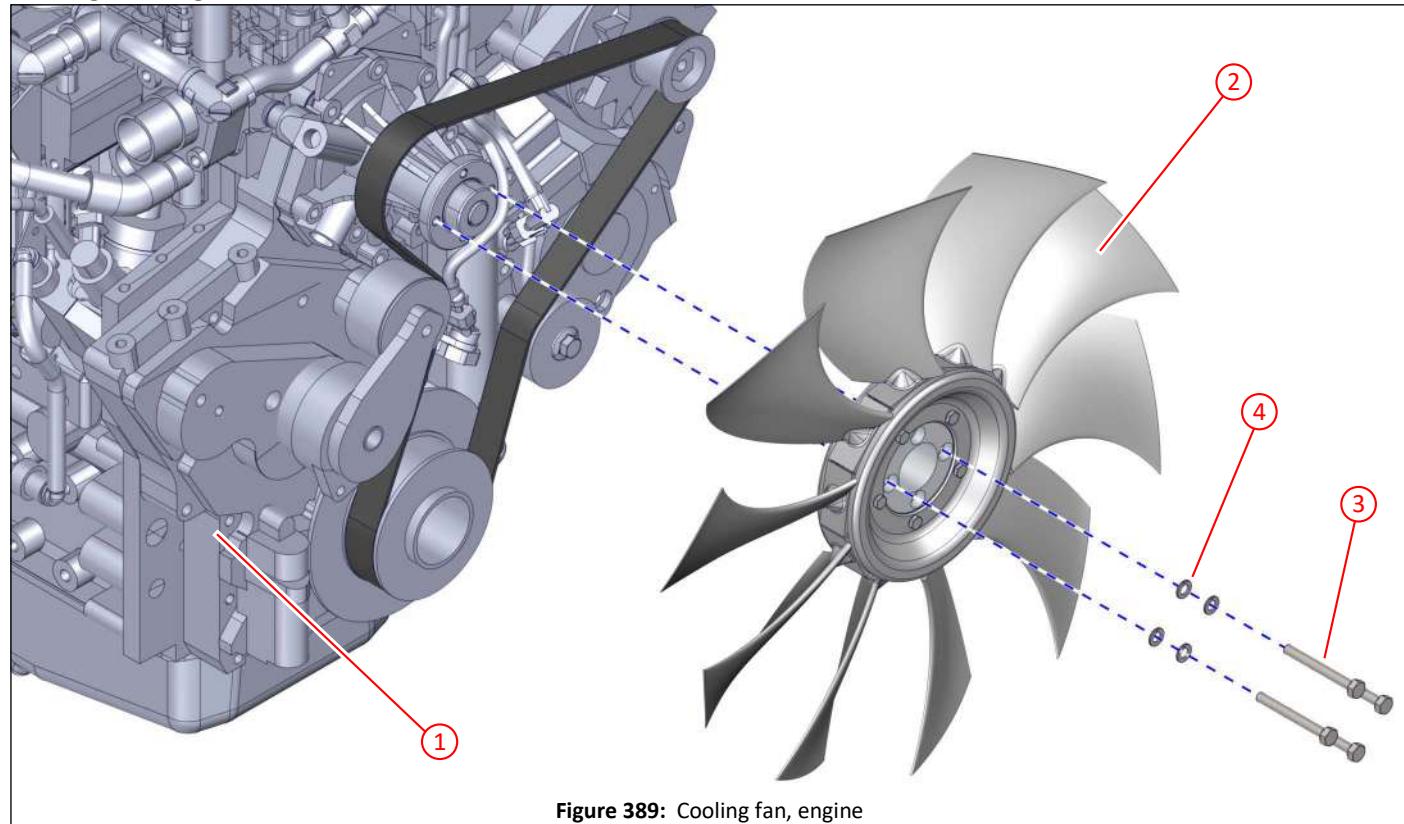


Figure 388: Engine mountings

Item	Part No	Qty	Description	
①		1	DEUTZ TCD 3.6 L4 engine	432
②	042808	2	Engine mount, front	
③	042811	2	Engine mount, rear	
④	011053	16	Set screw M12 x 35	
⑤	011097	16	Spring washer M12	
⑥	030724	4	Engine mount	425
⑦	011403	4	Bolt M14 x 50	
⑧	011106	4	Spring washer M14	

Cooling fan, engine


Item	Part No	Qty	Description	
①		1	DEUTZ TCD 3.6 L4 engine	432
②	043161	1	Fan and hub	
③	011018	4	Bolt M8 x 70	
④	011093	4	Spring washer M8	

Ancillary belt, alternator and engine speed sensors, engine

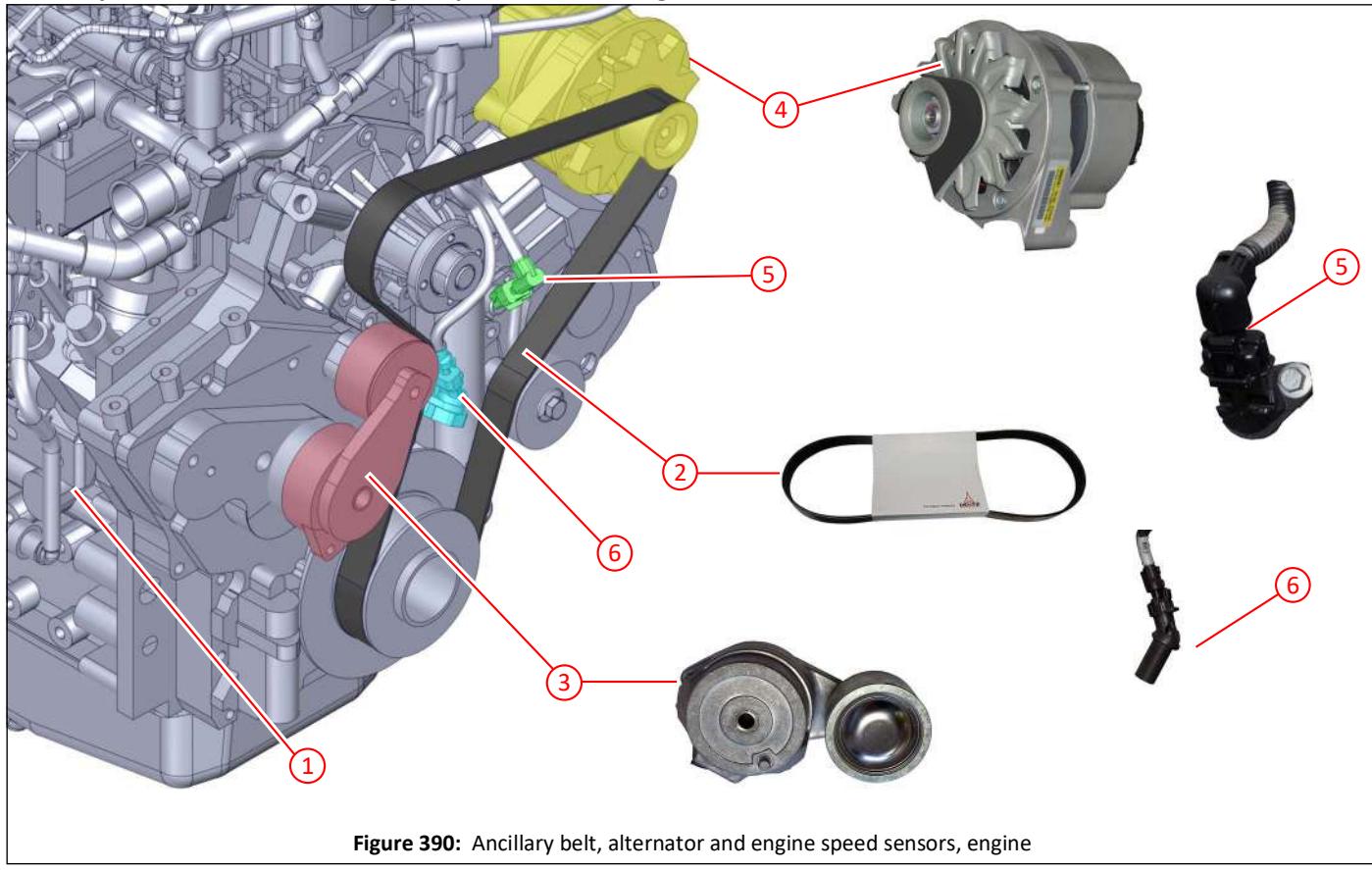


Figure 390: Ancillary belt, alternator and engine speed sensors, engine

Item	Part No	Qty	Description	
①		1	DEUTZ TCD 3.6 L4 engine	432
②	043789	1	V-ribbed belt	
③	043815	1	Tensioner, v-ribbed belt	
④	043816	1	Alternator, 28v 55A, 24v	430
④	044517	1	Alternator, 14v 95A, 12v	430
⑤	043797	1	Speed sensor, camshaft	
⑥	043797	1	Speed sensor, crankshaft	

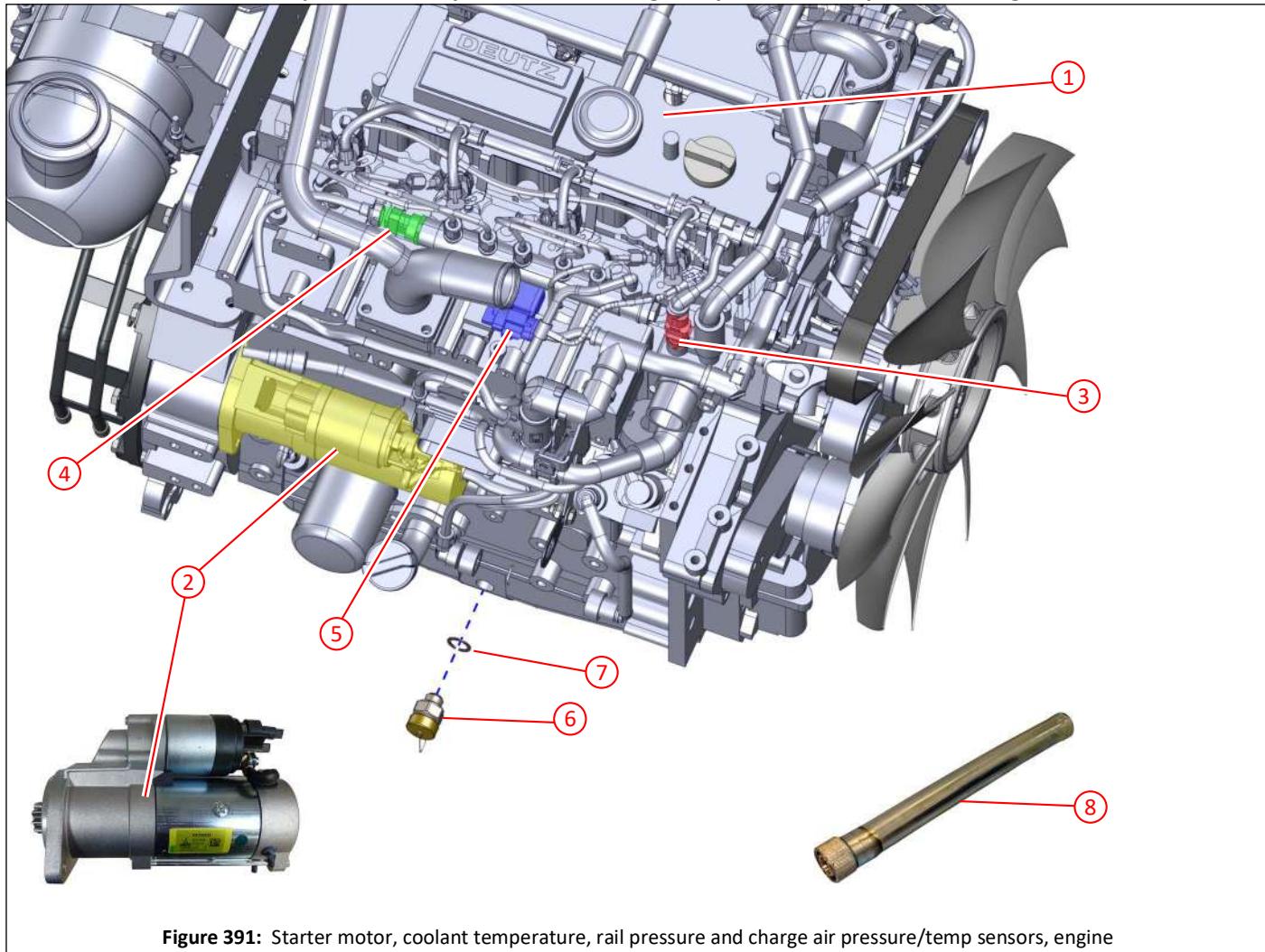
Starter motor, coolant temperature, rail pressure and charge air pressure/temp sensors, engine


Figure 391: Starter motor, coolant temperature, rail pressure and charge air pressure/temp sensors, engine

Item	Part No	Qty	Description	
①		1	DEUTZ TCD 3.6 L4 engine	432
②	043795	1	Starter motor, 24v	
②	044516	1	Starter motor, 12v	
③	043814	1	Coolant temperature sender	
④	043785	1	Pressure sensor, rail	
⑤	043798	1	Charge air pressure transmitter and charge air temperature transmitter	
⑥	043568	1	Drain valve, sump	
⑦	043567	1	Copper sealing ring	
⑧	043569	1	Connector, drain hose, sump drain	

Oil pressure sensor, engine

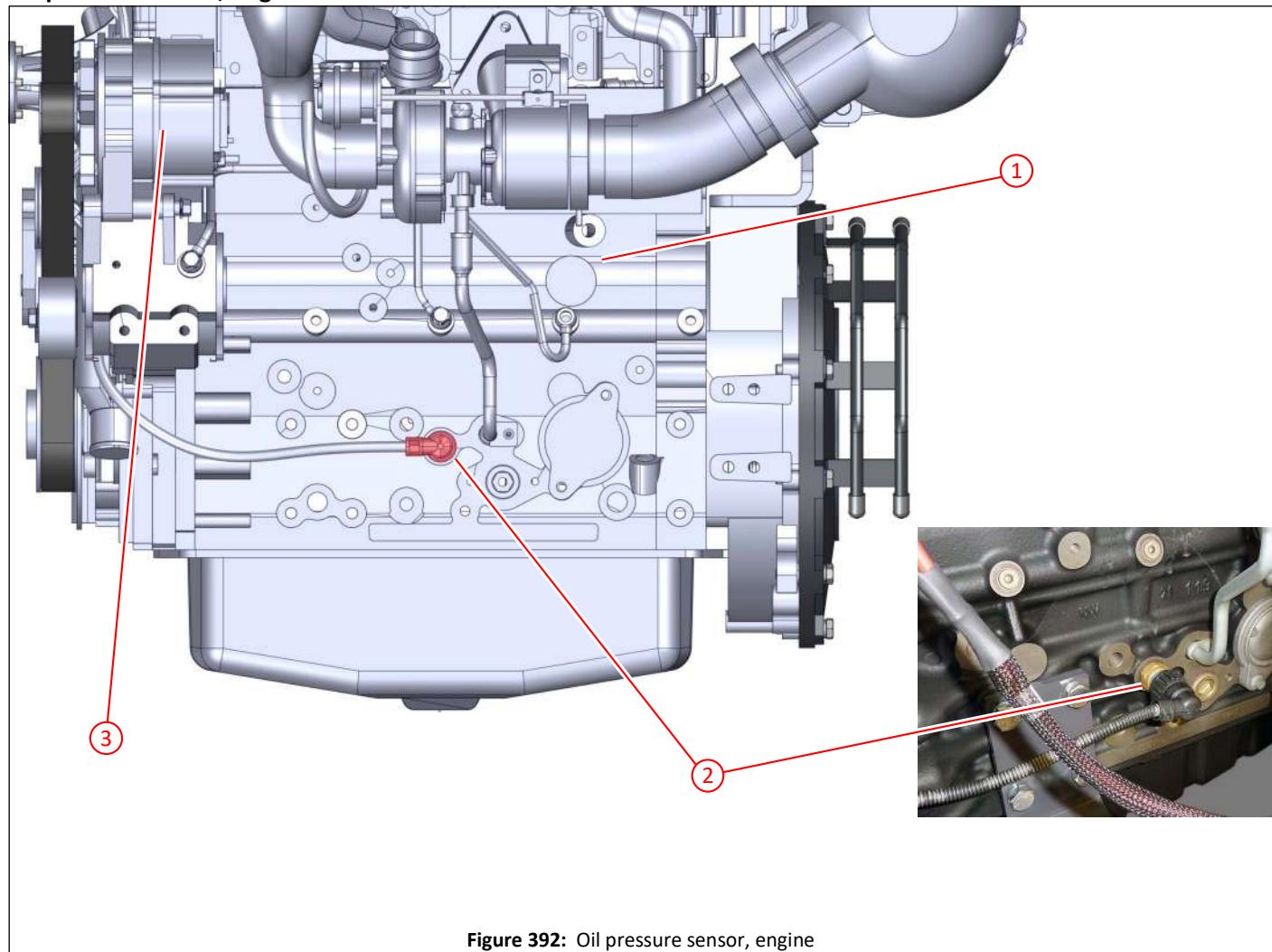
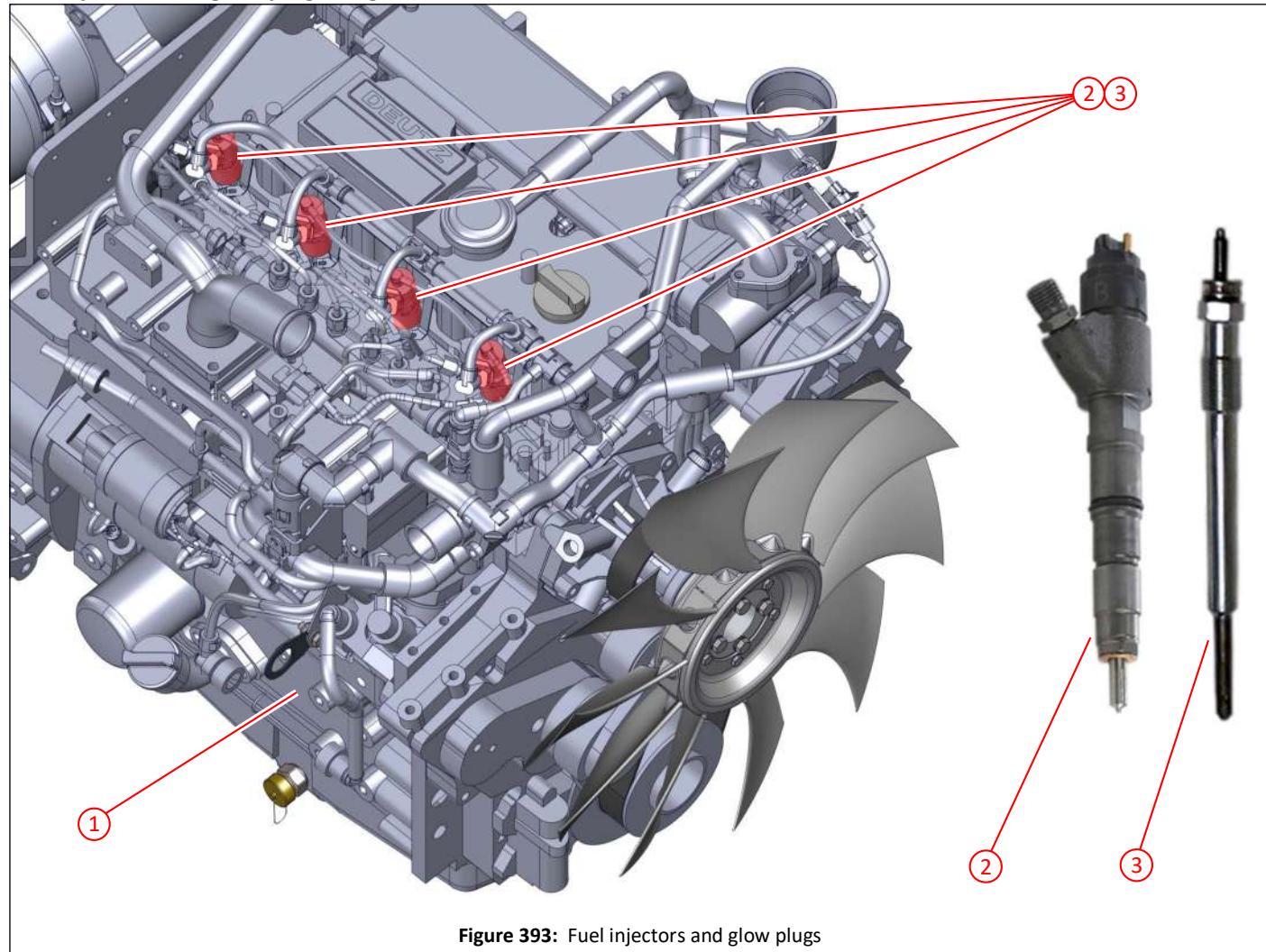


Figure 392: Oil pressure sensor, engine

Item	Part No	Qty	Description	
①		1	DEUTZ TCD 3.6 L4 engine	432
②	043785	1	Pressure sensor, oil	
③	043816	1	Alternator, 28v 55A, 24v	428
③	044517	1	Alternator, 14v 95A, 12v	428

Fuel injectors and glow plugs, engine

Figure 393: Fuel injectors and glow plugs

Item	Part No	Qty	Description	
①		1	DEUTZ TCD 3.6 L4 engine	432
②	043793	4	Fuel injector	
③	043799	4	Glow plug, 24v	
③	043820	4	Glow plug, 12v	

DUETZ TCD 3.6 L4 engine

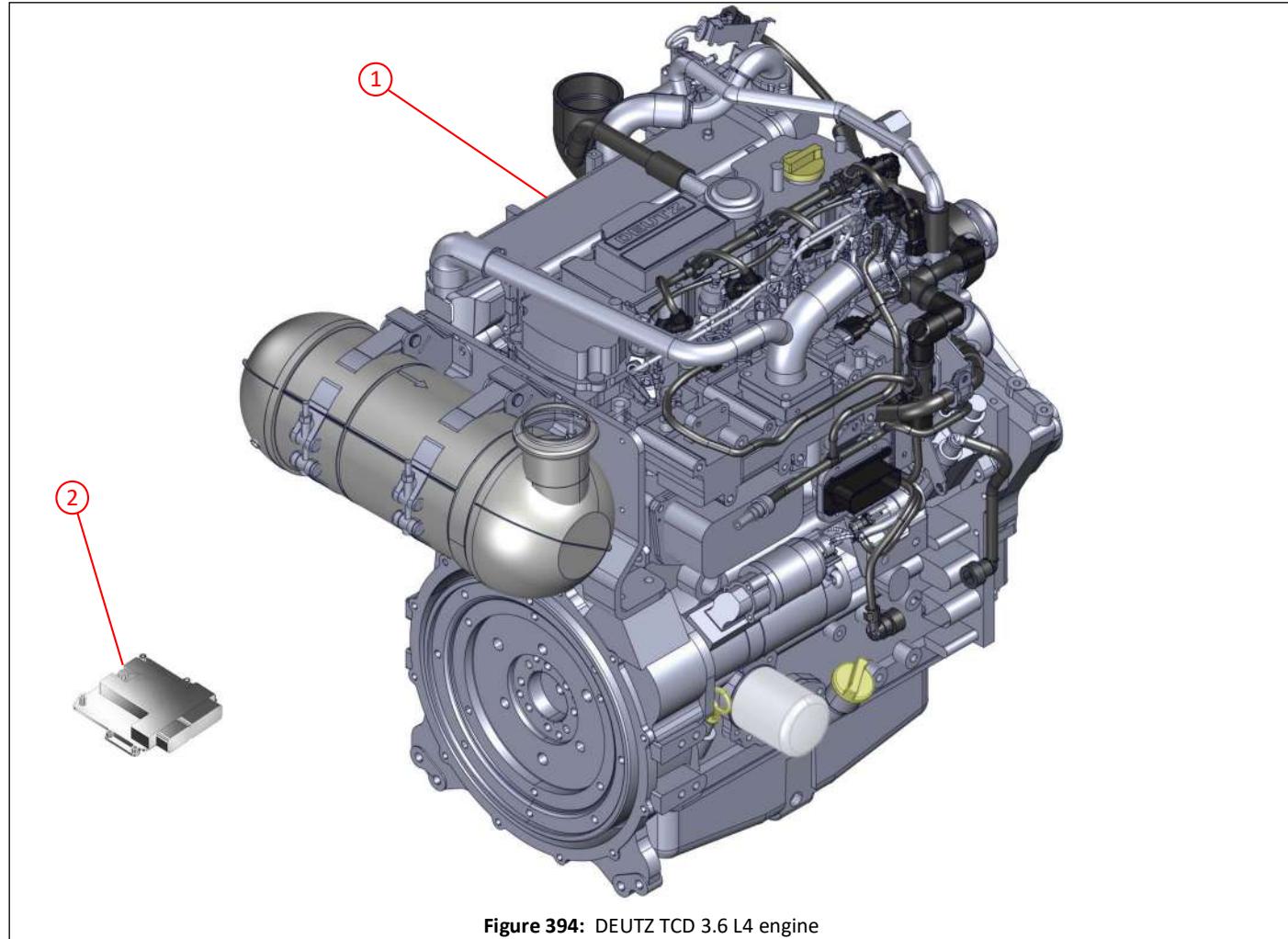
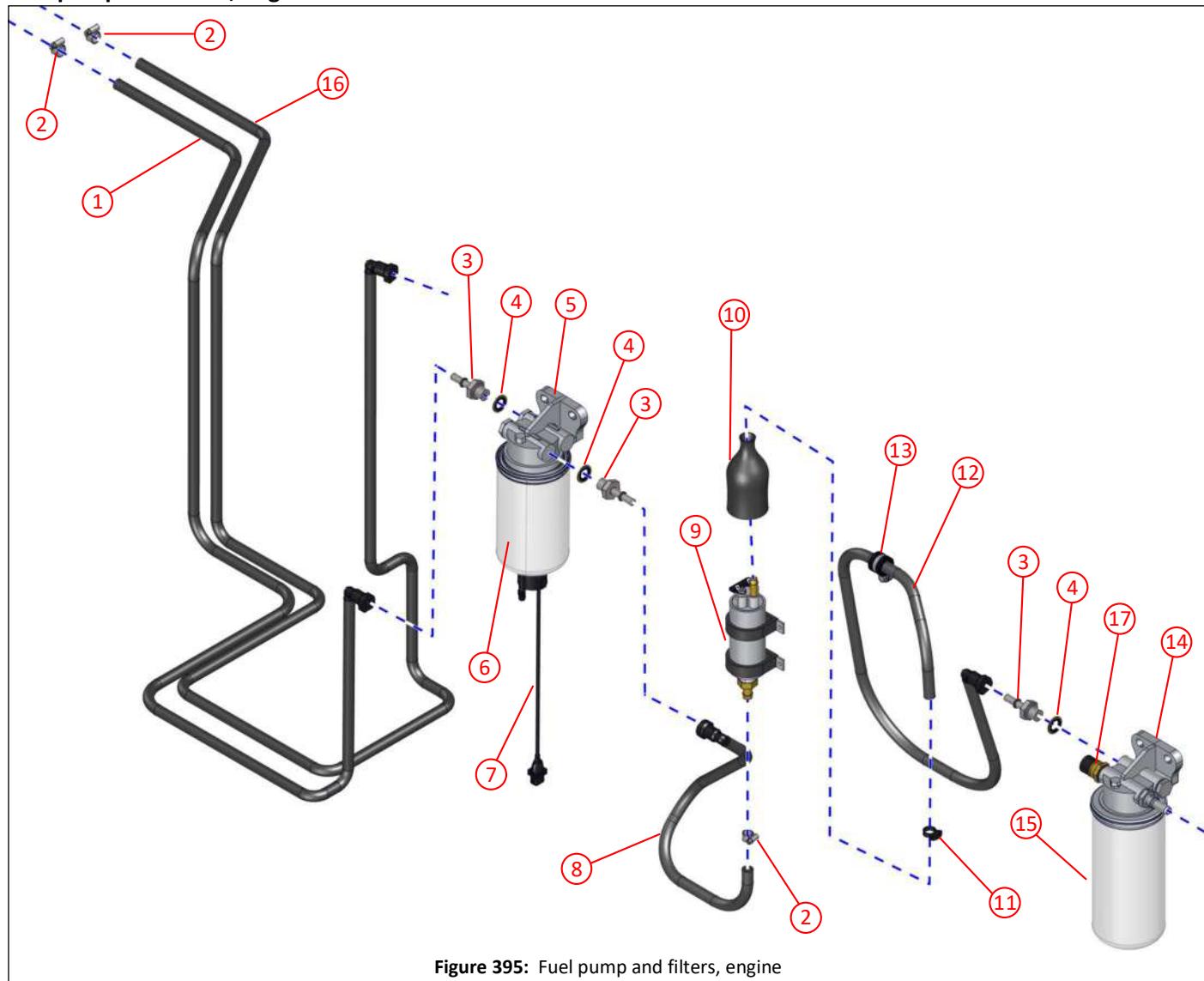


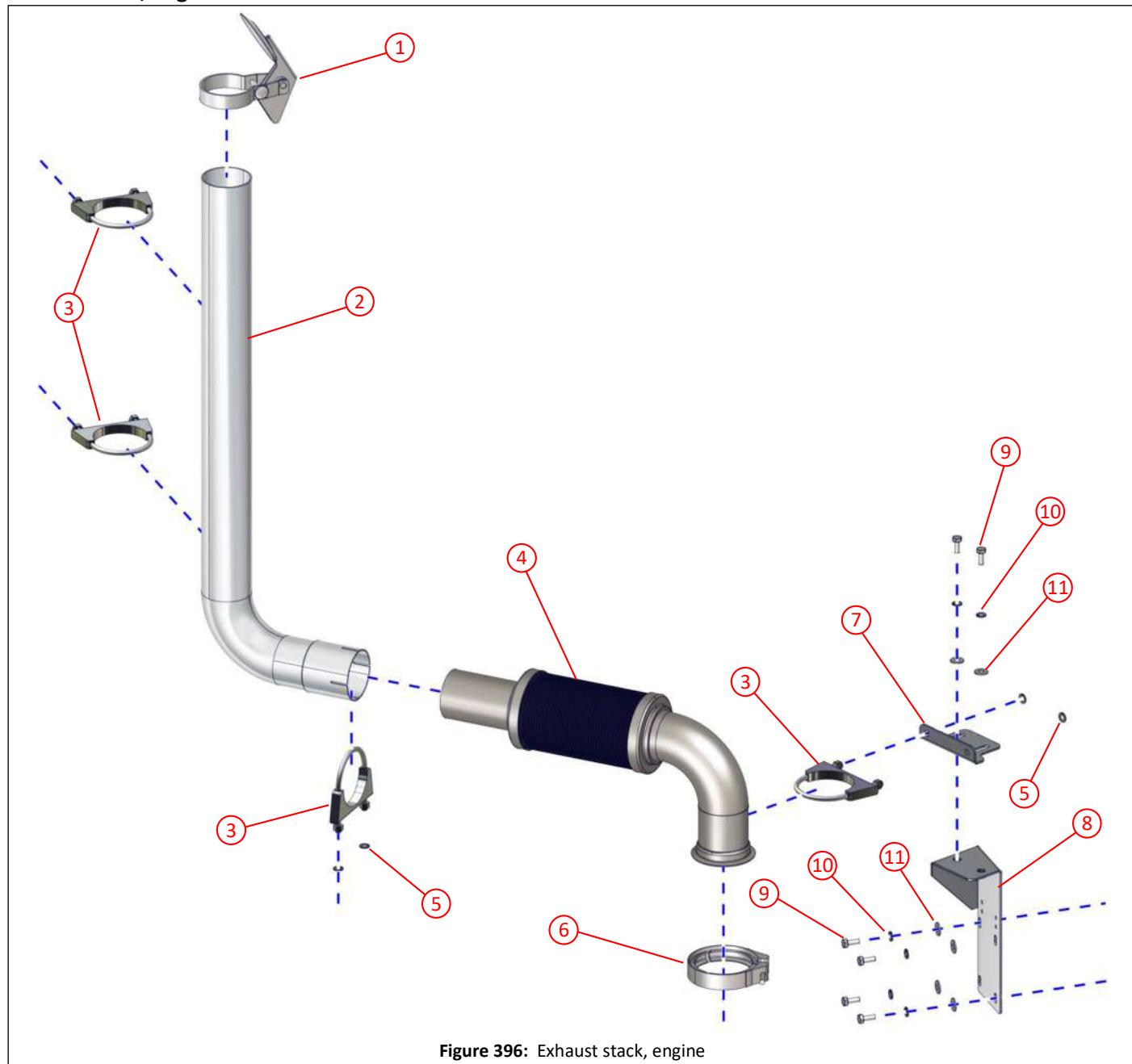
Figure 394: DEUTZ TCD 3.6 L4 engine

Item	Part No	Qty	Description
①	042483	1	DEUTZ TCD 3.6 L4 engine, 24v
①	044512	1	DEUTZ TCD 3.6 L4 engine, 12v
②	044500 *	1	ECU, 12v and 24v
NI	043344	1	Loom, DEUTZ engine

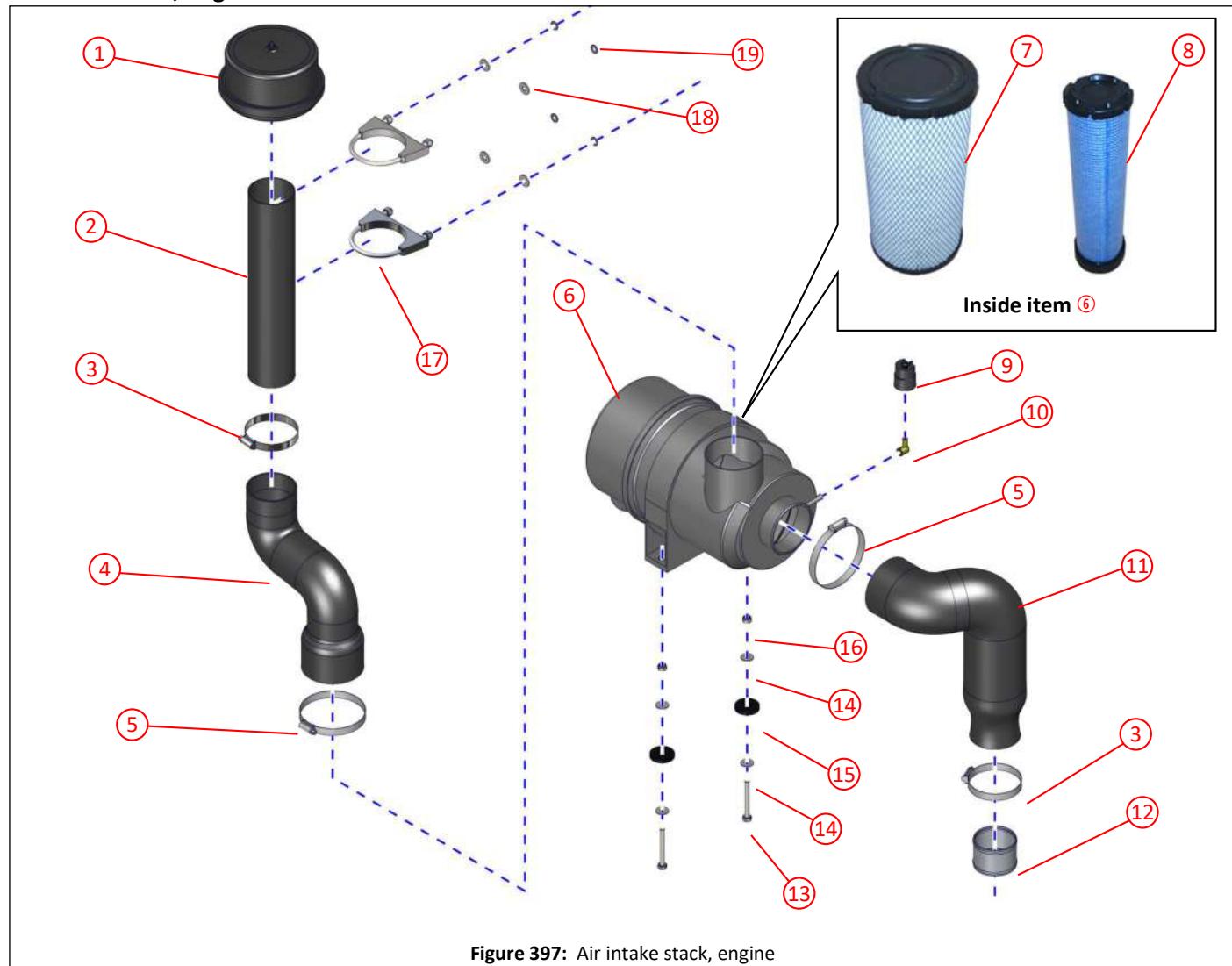
*. The ECU will need to be matched to the serial number of the DEUTZ auxiliary engine of your vehicle.

Fuel pump and filters, engine


Exhaust stack, engine



Item	Part No	Qty	Description	
①	041907	1	Rain cap, exhaust	354
②	043342	1	Stack, exhaust	354
③	036831	4	U-clamp ø83, exhaust	
④	043338	1	Elbow, with flexible section, exhaust	354
⑤	011093	4	Spring washer M8	
⑥	041694	1	Vee clamp, exhaust	
⑦	043940	1	Bracket, exhaust u-clamp	354
⑧	043339	1	Bracket, exhaust elbow	354
⑨	011010	6	Set screw M8 x 20	
⑩	011093	6	Spring washer M8	
⑪	011092	6	Plain washer M8	

Air intake stack, engine

Figure 397: Air intake stack, engine

Item	Part No	Qty	Description	
①	036022	1	Stack cap, air intake	355
②	042915	1	Stack, air intake	355
③	012931	2	Hose clamp, worm drive, No. 4 ($\varnothing 70\text{mm}$ - $\varnothing 90\text{mm}$)	
④	042999	1	Hose B, air intake	355
⑤	003003	2	Hose clamp, worm drive, No. 5 ($\varnothing 90\text{mm}$ - $\varnothing 120\text{mm}$)	
⑥	025279	1	Air cleaner assembly, includes items ⑦ and ⑧	355
⑦	025280	1	Element, main, air cleaner	
⑧	025281	1	Element, safety, air cleaner	
⑨	042136	1	Sender, filter blocked, 5.0kPa	
⑩	034343	1	Elbow, filter blocked sender	
⑪	042812	1	Hose A, air intake	355
⑫	041896	1	Stub, air intake	
⑬	011018	2	Bolt M8 x 70	
⑭	011092	4	Plain washer M8	
⑮	012969	2	Washer, rubber, $\varnothing 12 \times \varnothing 40 \times 6$	
⑯	011073	2	Nyloc nut M8	
⑰	036831	2	U-clamp $\varnothing 83$, exhaust	
⑱	011092	2	Plain washer M8	
⑲	011093	2	Spring washer M8	

Expansion tank, engine

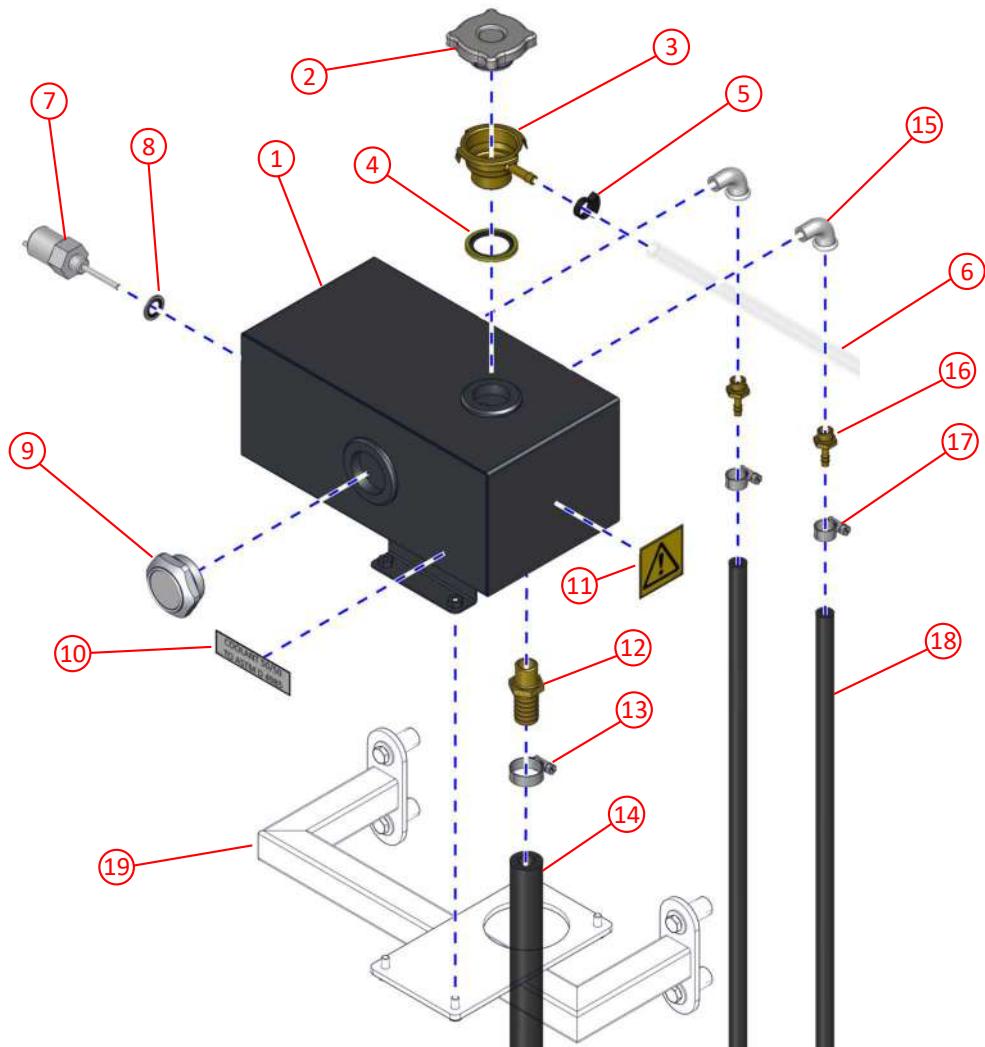
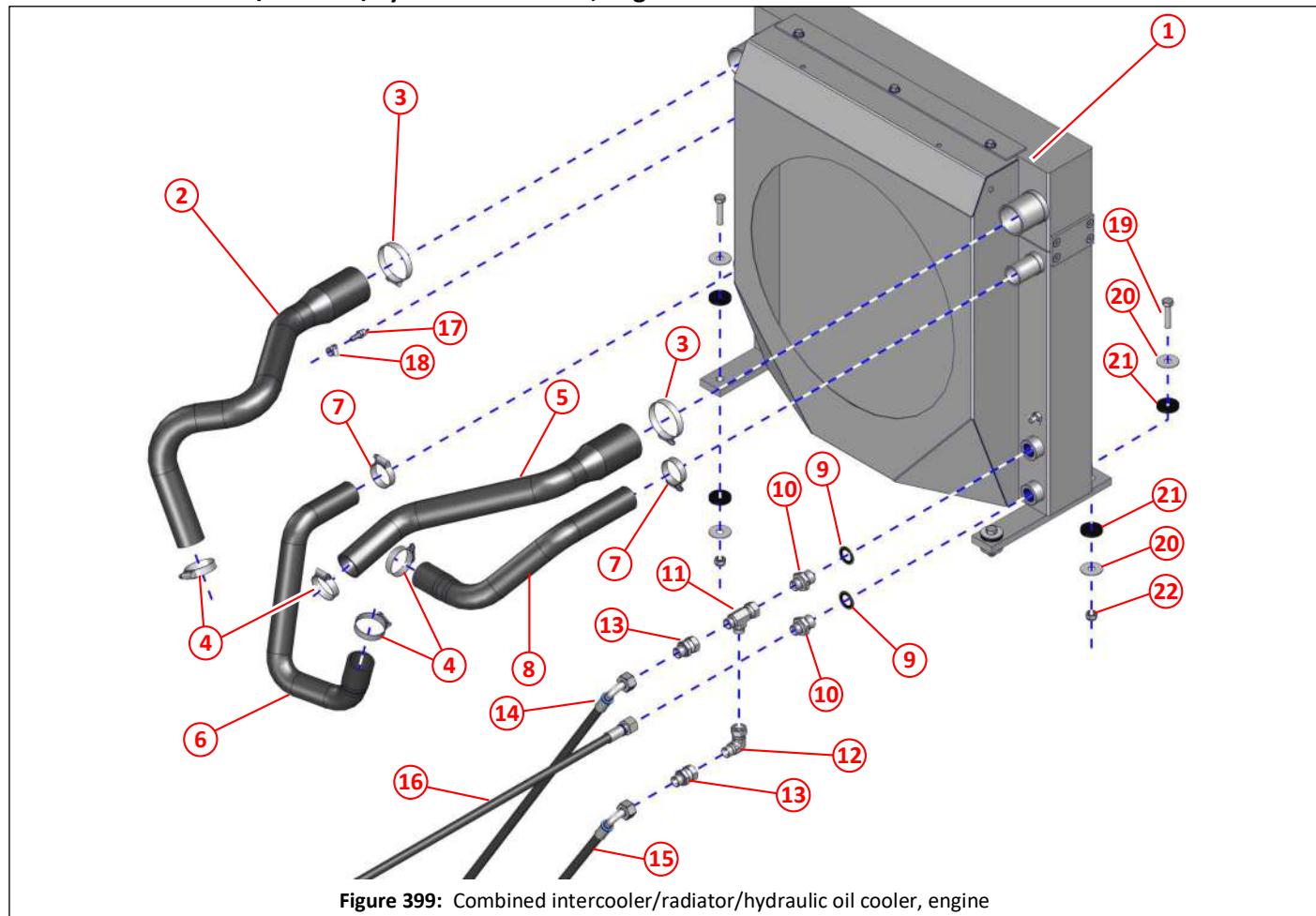


Figure 398: Expansion tank, engine

Item	Part No	Qty	Description	
①	041936	1	Expansion tank	359
②	041945	1	Cap, filler neck, expansion tank	
③	041944	1	Filler neck, expansion tank	
④	011156	1	Dowty seal 1" BSP	
⑤	005024	1	Cable tie, T18R, black	
⑥	010951	As req	Hose, $\frac{3}{8}$ ", clear	
⑦	041698	1	Sensor, coolant level, expansion tank	331
⑧	011216	1	Dowty seal M14	
⑨	042333	1	Bulls-eye sight glass, $1\frac{1}{4}$ " BSP	
⑩	036223	1	Label - Coolant grade	
⑪	043693	1	Label - Hazard	
⑫	025181	1	Adapter, $\frac{1}{2}$ " BSP x $\frac{3}{4}$ " hose tail	
⑬	010517	1	Hose clamp, worm drive, No OX ($\phi 18-\phi 25$)	
⑭	002188	As req	Hose, $\frac{3}{4}$ " R6	
⑮	010910	2	Elbow, M/F, $\frac{1}{4}$ " BSP	
⑯	010925	2	Adapter, $\frac{1}{4}$ " BSP x $\frac{1}{4}$ " hose tail	
⑰	010516	2	Hose clamp, worm drive. No M00 ($\phi 11-\phi 16$)	
⑱	001035	As req	Hose, 8mm	
⑲	042989	1	Mounting bracket, expansion tank	359

Combined intercooler/radiator/hydraulic oil cooler, engine

Figure 399: Combined intercooler/radiator/hydraulic oil cooler, engine

Item	Part No	Qty	Description	
①	042800	1	Combined intercooler/radiator/hydraulic oil cooler	348
②	042893	1	Intercooler hose 'A'	
③	010595	2	Hose clamp, worm drive, No 3 ($\phi 55\text{-}\phi 70$)	
④	012927	5	Hose clamp, worm drive, No 2 ($\phi 40\text{-}\phi 55$)	
⑤	042894	1	Intercooler hose 'B'	
⑥	042896	1	Coolant hose 'B'	
⑦	003007	2	Hose clamp, worm drive, No 2A ($\phi 35\text{-}\phi 50$)	
⑧	042895	1	Coolant hose 'A'	
⑨	002082	2	Dowty Seal M26	
⑩	002074	2	Adapter, M/M, M26 x $\frac{1}{2}$ " BSP	
⑪	011182	1	Tee, $\frac{1}{2}$ " BSP, nut on run	
⑫	011173	1	Elbow, swivel, M/F, $\frac{1}{2}$ " BSP	
⑬	011177	2	Adapter, swivel, M/F $\frac{1}{2}$ " BSP	
⑭	001328	1	Hose, $\frac{1}{2}$ " BSP x 810, straight and 90° ends, to Port T2 on main valve block	
⑮	001271	1	Hose, $\frac{1}{2}$ " BSP x 960, straight and 90° ends, to Port T1 on main valve block	
⑯	001308	1	Hose, $\frac{1}{2}$ " BSP x 2200, straight ends, from tank	
⑰	006044	1	Adapter, $\frac{1}{4}$ " BSP male x 8mm hose tail	
⑱	010516	1	Hose clamp, worm drive, No M00 ($\phi 11\text{-}\phi 16$)	
⑲	000024	4	Set screw M12 x 50	
⑳	013448	8	Washer $\phi 13 \times \phi 40 \times 2$	
㉑	012969	8	Rubber washer, $\phi 12 \times \phi 40 \times 6$	
㉒	011077	4	Nyloc nut M12	

Other components, engine

Part No	Description	
043782	Valve cover gasket	
043783	Head gasket	
043784	Seal, rear main	
043788	Water pump, coolant	
043791	Seal, front main	
043792	Sump gasket	
043800	Oil pump	
043806	Thermostat	
043811	Ring gear	
043813	Seal, oil pump	
043817	EGR module, 24v	
043819	EGR module, 12v	
045113	Water in fuel (WIF) sensor cable	
045711	Sealing ring	
045712	Screw plug	
045714	Packing compound	
045732	Seal, water pump	
043222	Dipstick	424
043223	O-ring, dipstick	
041968	Coolant level switch	331

i For other parts of the DEUTZ TCD 3.6 L4 engine that are not mentioned in this book please contact Scarab Parts Department, your local Scarab agent or DEUTZ. Have your engine serial number ready and if contacting Scarab have your sweepers serial number as well.

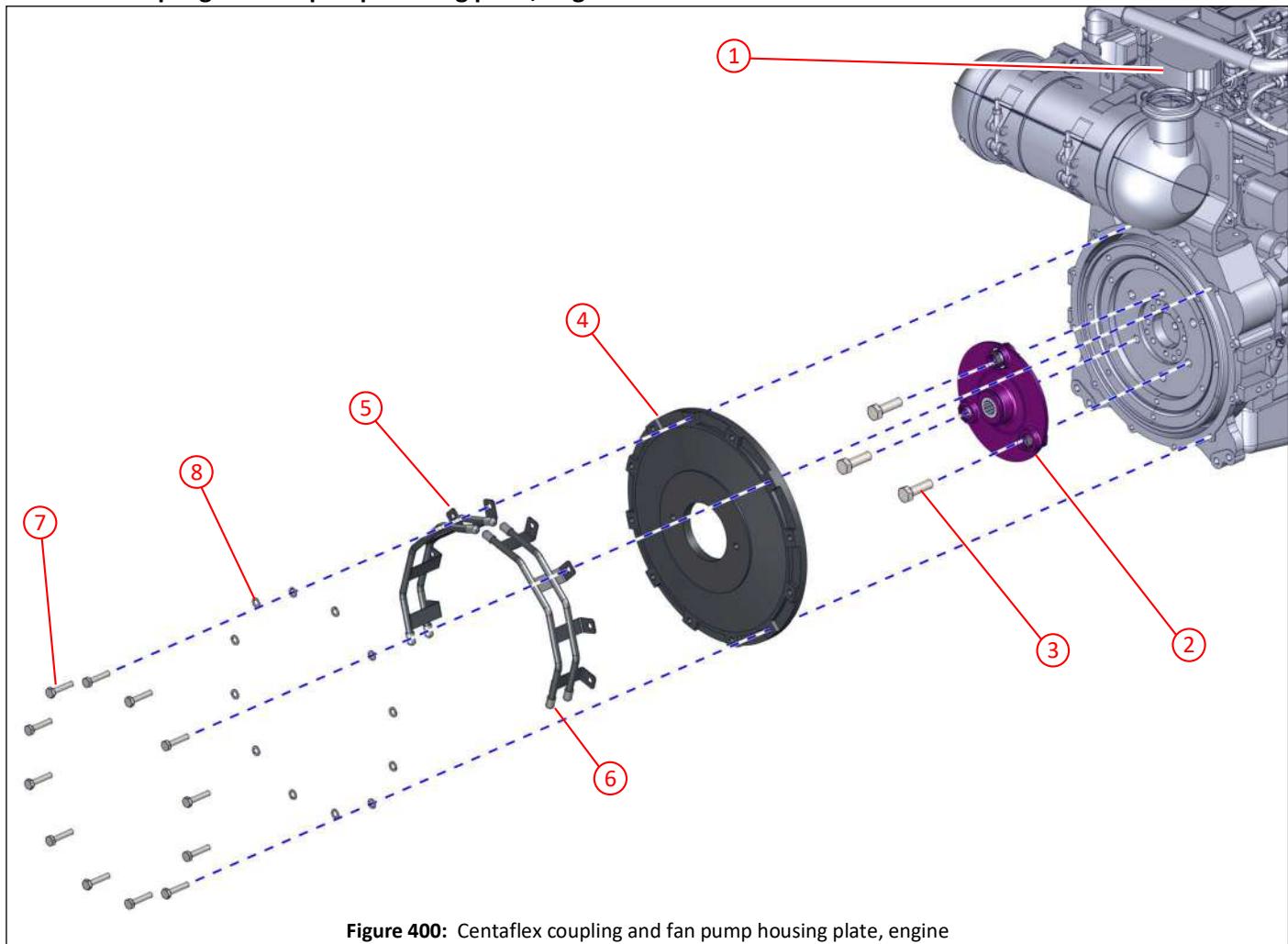
Centaflex coupling and fan pump housing plate, engine


Figure 400: Centaflex coupling and fan pump housing plate, engine

Item	Part No	Qty	Description
①		1	DEUTZ TCD 3.6 L4 engine
②	043081	1	Centaflex KE coupling
③	000473	3	Set screw M16 x 2 x 50
④	042813	1	Fan pump housing plate
⑤	042979	2	Cable guide, fan pump housing plate
⑥	043065	8	Pipe cap ø12
⑦	000072	12	Set screw M10 x 45
⑧	011095	12	Spring washer M10

Cab components

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Brush pressure controls, cab components	446
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Cab components

General layout, cab components

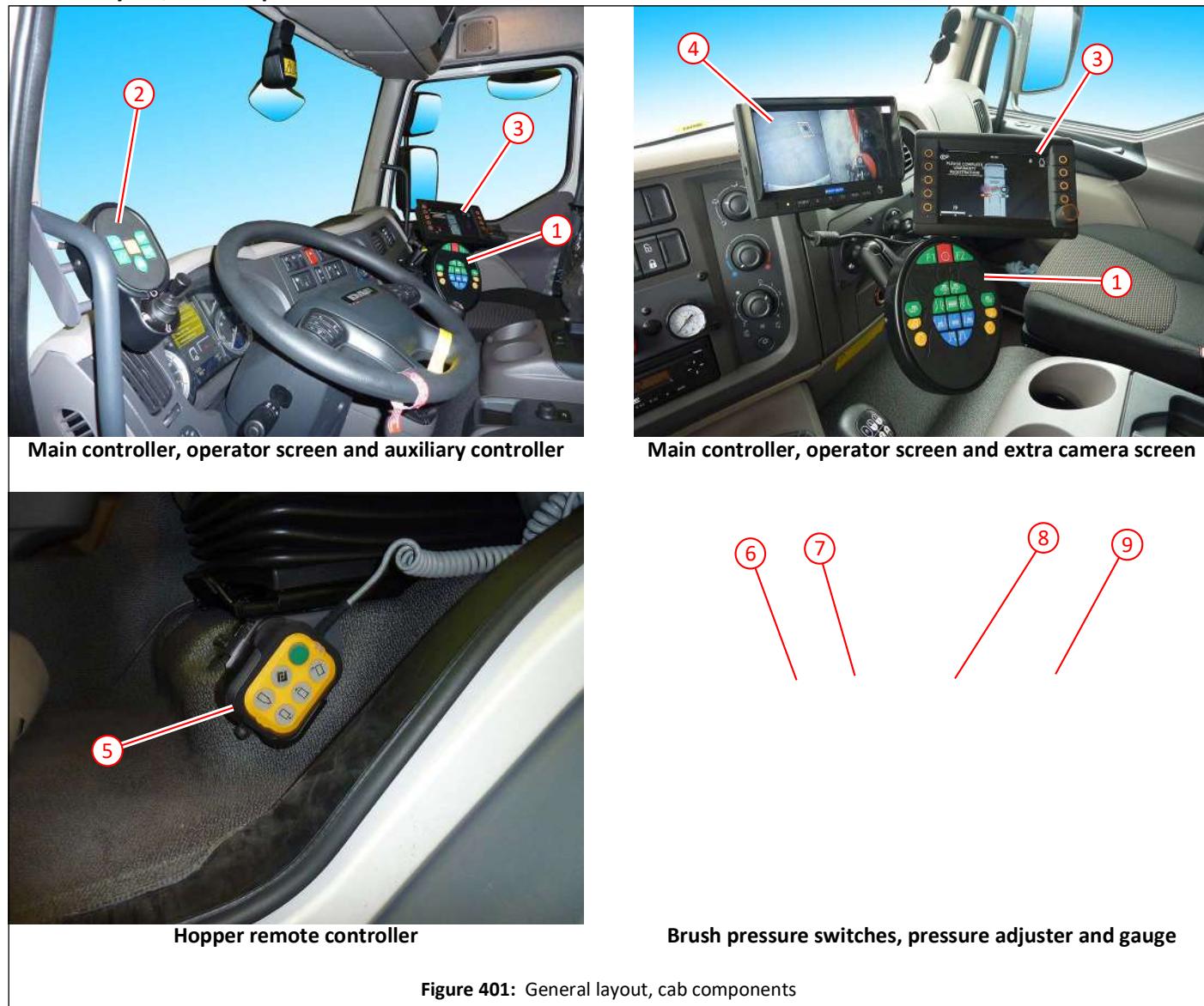
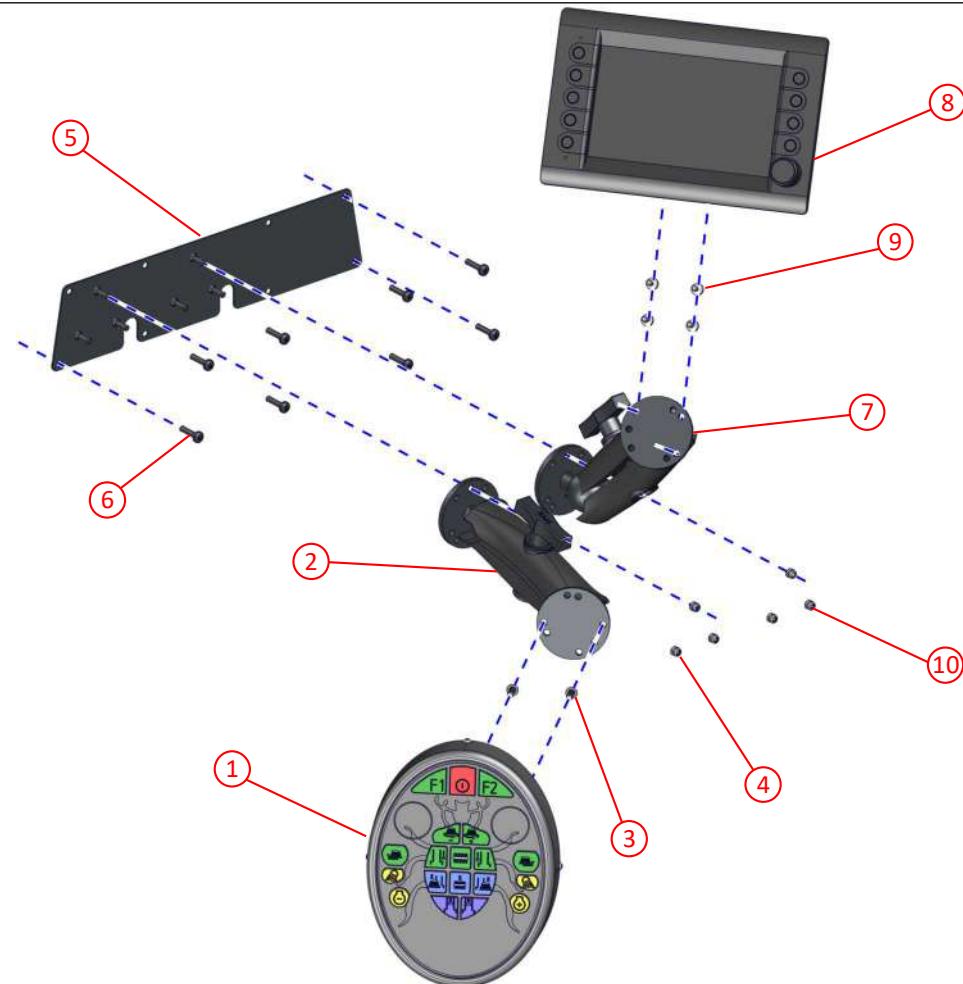


Figure 401: General layout, cab components

Item	Part No	Qty	Description	
①			Main control panel	318,443
②			Auxiliary control panel (door pod)	319,445
③			Operator screen	320,443
④			Camera screen	321,
⑤			Hopper remote controller	320,447
⑥			Side brush pressure switch	306,446
⑦			Central brush (wide sweep) pressure switch	305,306,446
⑧			Pressure adjuster, brush	306,446
⑨			Pressure gauge, brush	306,446

i Please note that any mounting brackets etc. in the cab area are chassis specific, when ordering parts please have you sweepers serial number and also the type of chassis it is built on available.

Main control panel and operator screen mountings, cab components

Figure 402: Main control panel and operator screen mountings, cab components

Item	Part No	Qty	Description	
①	037602	1	Main control panel, fascia and keypad	318,442
②	032108	1	Panel mount, adjustable	
③	000346	2	Socket button head screw M5 x 16, black	
④	000134	3	Nyloc nut M4	
⑤	042034 *	1	Mounting plate, control panel and operator screen, (DAF left hand drive shown)	
⑥	000402	8	Pan head Pozidrive screw M5 x 20	
⑦	032108	1	Panel mount, adjustable	
⑧	051274	1	Display screen, operator, CR1084, programmed	320,442
⑨	100103	4	Pan head Pozidrive screw M5 x 12	
⑩	000134	3	Nyloc nut M4	

*. These items are chassis specific, when ordering parts please have your sweeper serial number and type of chassis it is built on available.

i Due to the many chassis and variants available it is not practical to list all of the fittings for attaching items to the chassis, please use appropriate fittings and if in any doubt contact Scarab Sweepers for advice.

Cab components

Main control panel and operator screen mountings, cab components, Freightliner M2106 DS

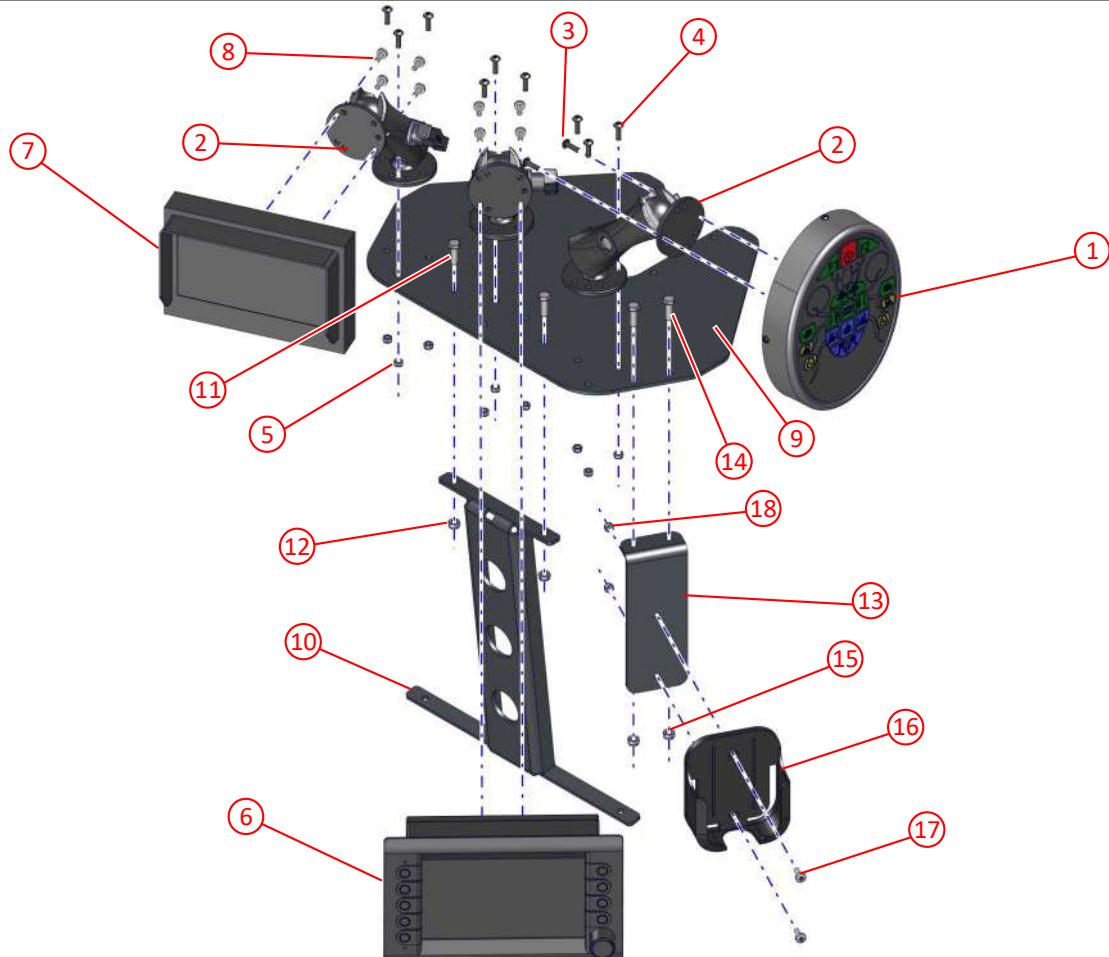
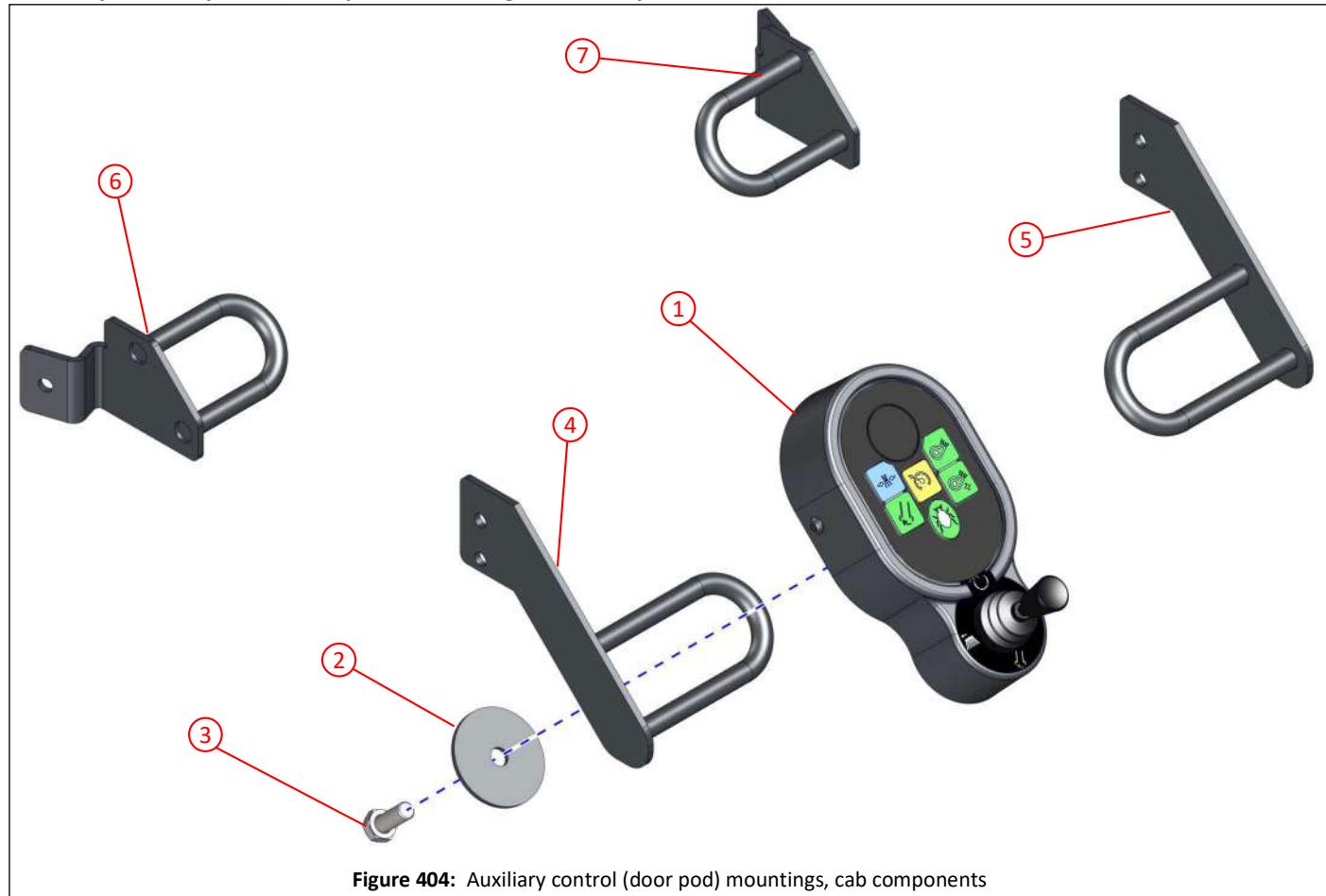


Figure 403: Main control panel and operator screen mountings, cab components, Freightliner M2106 DS

Item	Part No	Qty	Description	
①	037602	1	Main control panel, fascia and keypad	318,442
②	032108	3	Panel mount, adjustable	
③	000346	2	Screw, socket button head, M5 x 16, black	
④	000346	9	Screw, socket button head, M5 x 16, black	
⑤	000155	9	Nyloc nut M5	
⑥	051274	1	Display screen, operator, CR1084, programmed	320,442
⑦	040717	1	Camera monitor	
⑧	100103	8	Pan head Pozidrive screw M5 x 12	
⑨	046606	1	Dash plate, Freightliner M2106 DS	
⑩	046605	1	Support, dash plate, Freightliner M2106 DS	
⑪	011067	2	Set screw M6 x 20	
⑫	011071	2	Nyloc nut M6	
⑬	046604	1	Hopper controller mounting bracket, Freightliner M2106 DS	
⑭	011067	2	Set screw M6 x 20	
⑮	011071	2	Nyloc nut M6	
⑯	043691	1	Holster, hopper controller (PXL)	
⑰	100103	2	Screw, pan head pozidrive M5 x 12	
⑱	000155	2	Nyloc nut M5	

i Due to the many chassis and variants available it is not practical to list all of the fittings for attaching items to the chassis, please use appropriate fittings and if in any doubt contact Scarab Sweepers for advice.

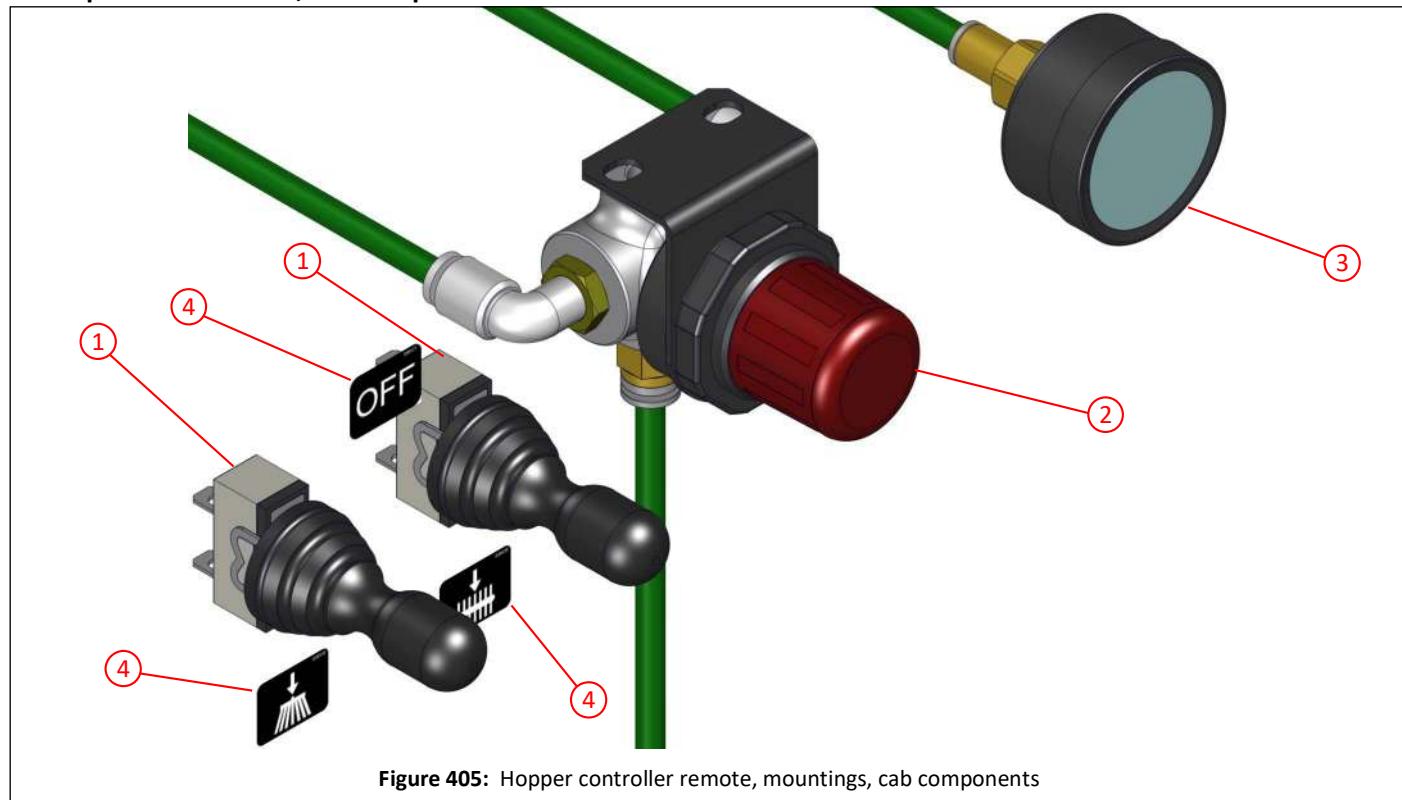
Auxiliary control panel (door pod) mountings, cab components


Item	Part No	Qty	Description	
①	037606	1	Auxiliary control panel (door pod), left hand, complete assembly	319,442
①	037607	1	Auxiliary control panel (door pod), right hand, complete assembly	319,442
②	037064	1	Lock washer, auxiliary control panel (door pod)	
③	011031	1	Set screw M10 x 25	
④	037866 *	1	Mount, left hand, auxiliary (door pod) controller, DAF/Renault/Volvo	
⑤	037296 *	1	Mount, right hand, auxiliary (door pod) controller, DAF/Renault/Volvo	
⑥	033427 *	1	Mount, left hand, auxiliary (door pod) controller, Iveco	
⑦	033317 *	1	Mount, right hand, auxiliary (door pod) controller, Iveco	

*. These are examples of brackets for mounting the auxiliary controller, if needing to order, then please contact Scarab Parts Department and have your sweeper serial number and type of chassis it is built on available, to ensure correct parts selection.

i Due to the many chassis and variants available it is not practical to list all of the fittings for attaching items to the chassis, please use appropriate fittings and if in any doubt contact Scarab Sweepers for advice.

Brush pressure controls, cab components



Item	Part No	Qty	Description	
①		As req	Switch	306
②		1	Pressure regulator, mini, 0.5 - 3.5 bar	306
③		1	Pressure gauge, brush	306
④		As req	Labels	306,453

i Due to the many chassis and variants available it is not practical to list all the fittings for attaching these items, please contact Scarab Parts Department for advice on required mounting plates etc.

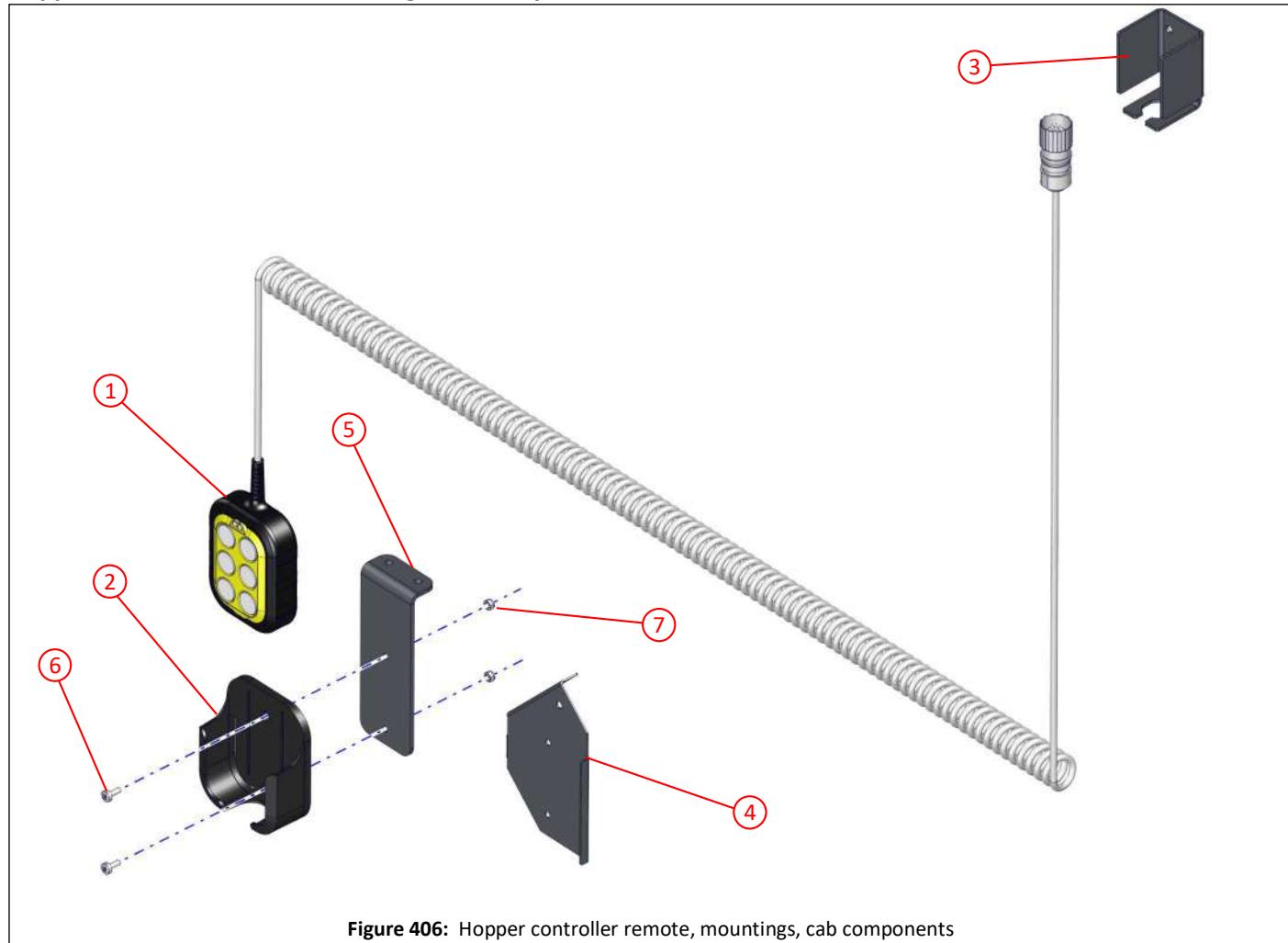
Hopper controller remote, mountings, cab components


Figure 406: Hopper controller remote, mountings, cab components

Item	Part No	Qty	Description	
①	043688	1	Hopper controller (PXL)	
②	043691	1	Holster, hopper controller (PXL)	
③	037299	1	Bracket, cable control, hopper controller	
	044294	1	Hopper controller complete with holster, includes items ① and ②	
④	037898 *	1	Hopper controller mounting bracket, left hand, DAF	
⑤	046604 *	1	Hopper controller mounting bracket, Freightliner M2106 DS	
⑥	100103	2	Screw, pan head pozidrive M5 x 12	
⑦	000155	2	Nyloc nut M5	
NI	037047	1	Loom, hopper controller	330

*. These are examples of brackets used to mount the remote controller holster to the chassis or other areas of the cab, if needing to order, then please contact Scarab Parts Department and have your sweeper serial number and type of chassis it is built on available, to ensure correct parts selection.

i Due to the many chassis and variants available it is not practical to list all of the fittings for attaching items to the chassis, please use appropriate fittings and if in any doubt contact Scarab Sweepers for advice.

CR2012 cabinet module, slave node, mountings, cab components

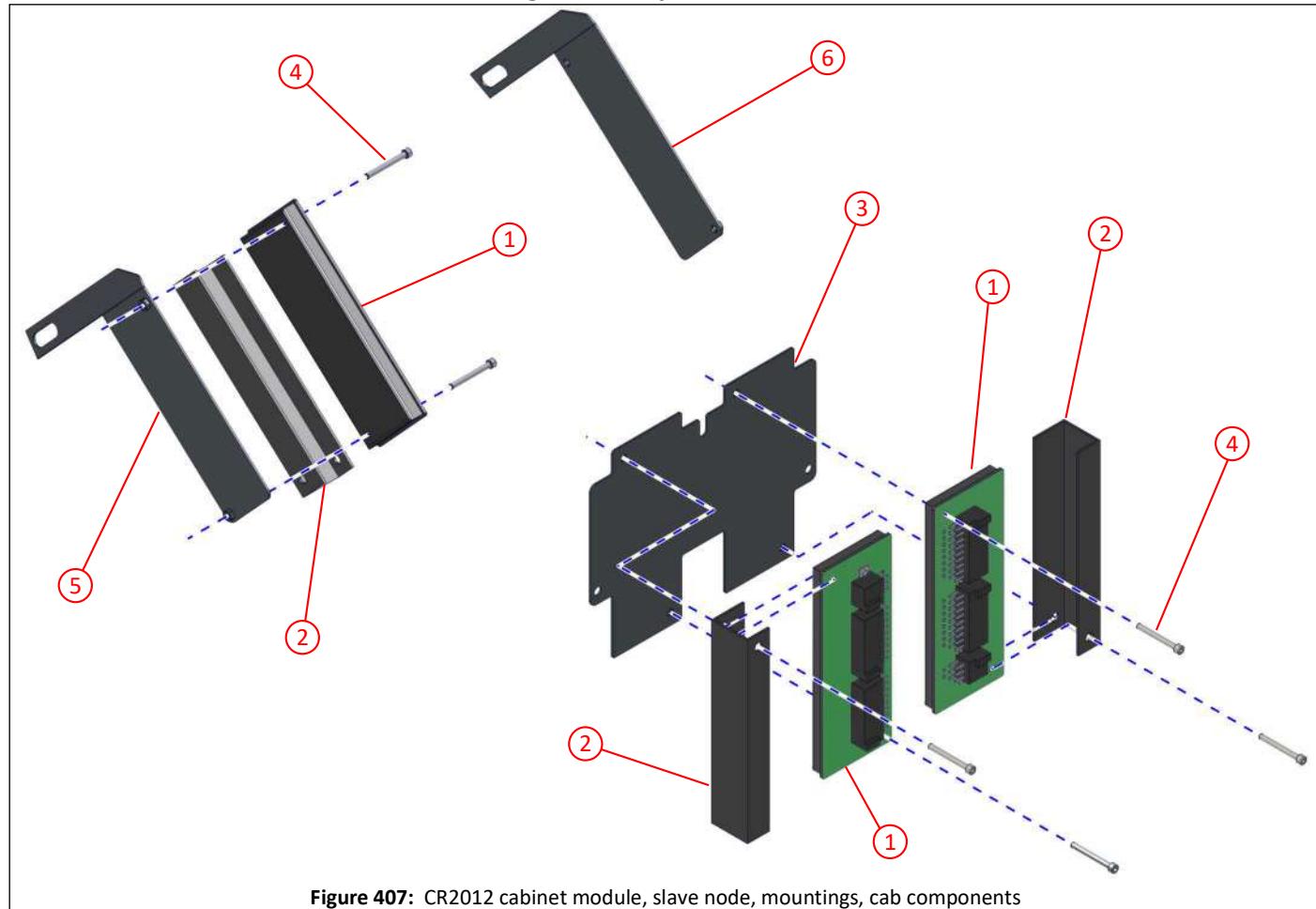


Figure 407: CR2012 cabinet module, slave node, mountings, cab components

Item	Part No	Qty	Description	
①	036799	3	CR2012 cabinet module, slave node, behind dash	320
②	004491	3	Cover, for CR2012 connections, 1 per CR2012	
③	032045 *	1	Mounting plate, double, CR2012, DAF	
④	000152	6	Socket cap head screw M4 x 35, 2 per CR2012	
⑤	042041 *	1	Mounting bracket, left hand drive, CR2012 (auxiliary controller (door pod)), DAF	
⑥	043073 *	1	Mounting bracket, right hand drive, CR2012 (auxiliary controller (door pod)), DAF	

*. These are examples of brackets for mounting the CR2012, if needing to order, then please contact Scarab Parts Department and have your sweeper serial number and type of chassis it is built on available, to ensure correct parts selection.

i Due to the many chassis and variants available it is not practical to list all of the fittings for attaching items to the chassis, please use appropriate fittings and if in any doubt contact Scarab Sweepers for advice.

Other components, cab components

Part No	Description	
042049 *	Beacon switch, DAF	321
038543 *	Beacon switch, Renault	321
039672	Cable, M12 to USB	320
037048	Sounder	321
040717	Camera monitor	321
041534	Camera splitter	322
014718	Relay, 10/20 Amp, Beacon(s), 24v	322
011768	Relay, 10/20 Amp, Beacon(s), 12v	322
014718	Relay, 10/20 Amp, Ignition, 24v	322
011768	Relay, 10/20 Amp, Ignition, 12v	322

*. Switches for other chassis manufacturers please contact Scarab Parts Department.

 For looms and other electrical items in the cab please refer to the "Electrical" section starting on page 317.

Labels, decals and badges

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Labels, decals and badges	452
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Decals and badges	454

Warning labels

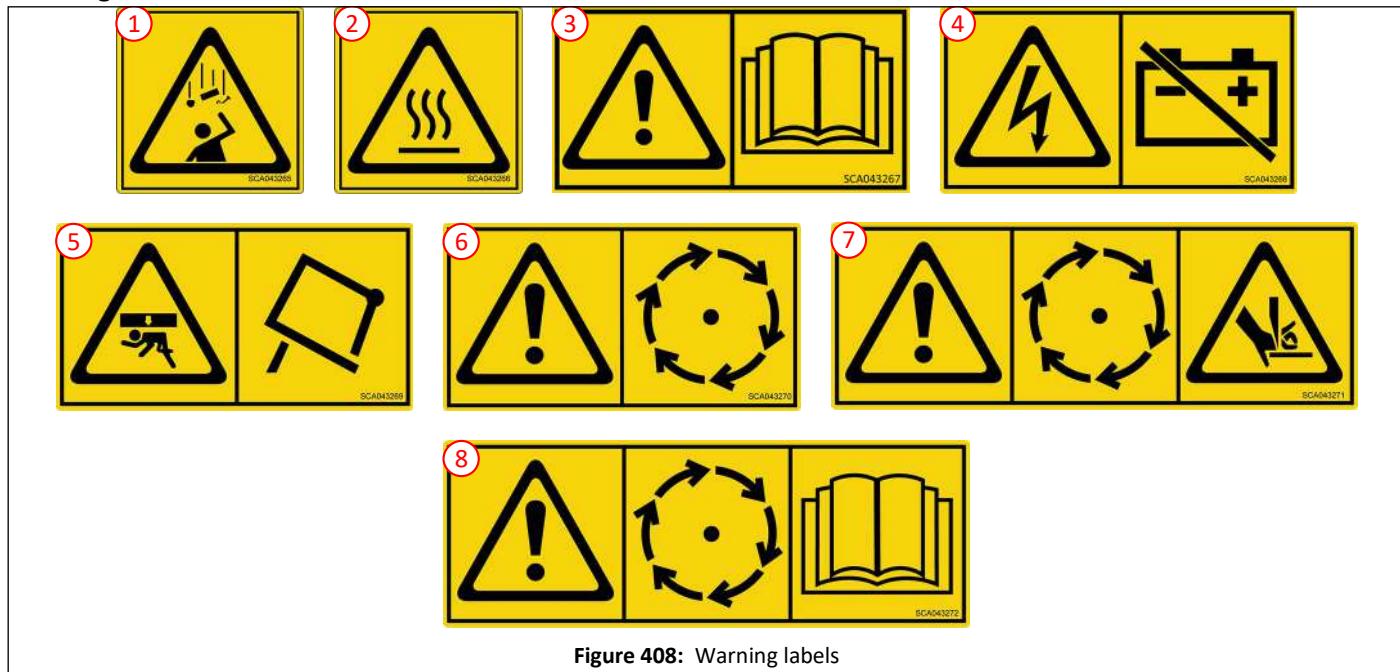
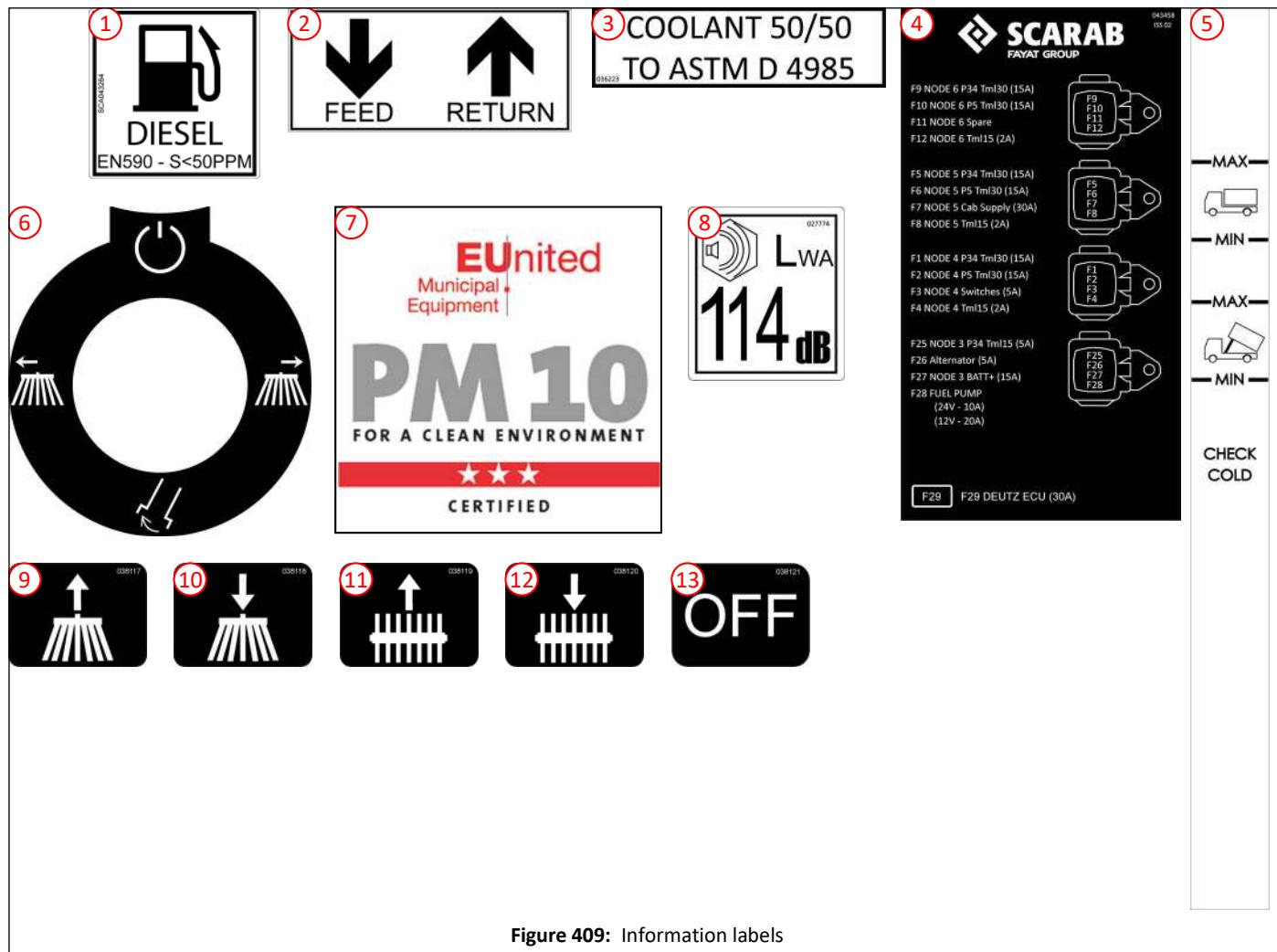


Figure 408: Warning labels

Item	Part No	Qty	Description
①	043265	As req	Label - Warning - Debris
②	043266	As req	Label - Warning - Hot surface
③	043267	As req	Label - Warning - Read the manual
④	043268	As req	Label - Warning - Electrical
⑤	043269	As req	Label - Warning - Use hopper prop
⑥	043270	As req	Label - Warning - Rotating parts
⑦	043271	As req	Label - Warning - Rotating parts and trap hazard
⑧	043272	As req	Label - Warning - Rotating parts, read the manual

Information labels

Figure 409: Information labels

Item	Part No	Qty	Description
①	043264	1	Label - Information - Diesel
②	043866	1	Label - Information - Fuel feed/return
③	036223	1	Label - Information - Coolant grade
④	043458	1	Label - Information - Fuses cabinet
⑤	044831	1	Label - Information - Hydraulic oil level
⑥	039545	1	Label - Information - Auxiliary control panel joystick
⑦	039869	1	Label - Information - PM10
⑧	027774	As req	Label - Information - Sound level 114dB
⑨	038117	1	Label - Information - Side brush up - turn on reduced pressure
⑩	038118	1	Label - Information - Side brush down - turn on increased pressure -
⑪	038119	1	Label - Information - Central brush (wide sweep) up - turn on reduced pressure
⑫	038120	1	Label - Information - Central brush (wide sweep) down - turn on increased pressure
⑬	038121	1	Label - Information - Brush pressures OFF

Please note that not all labels will necessarily be on your sweeper.

Decals and badges

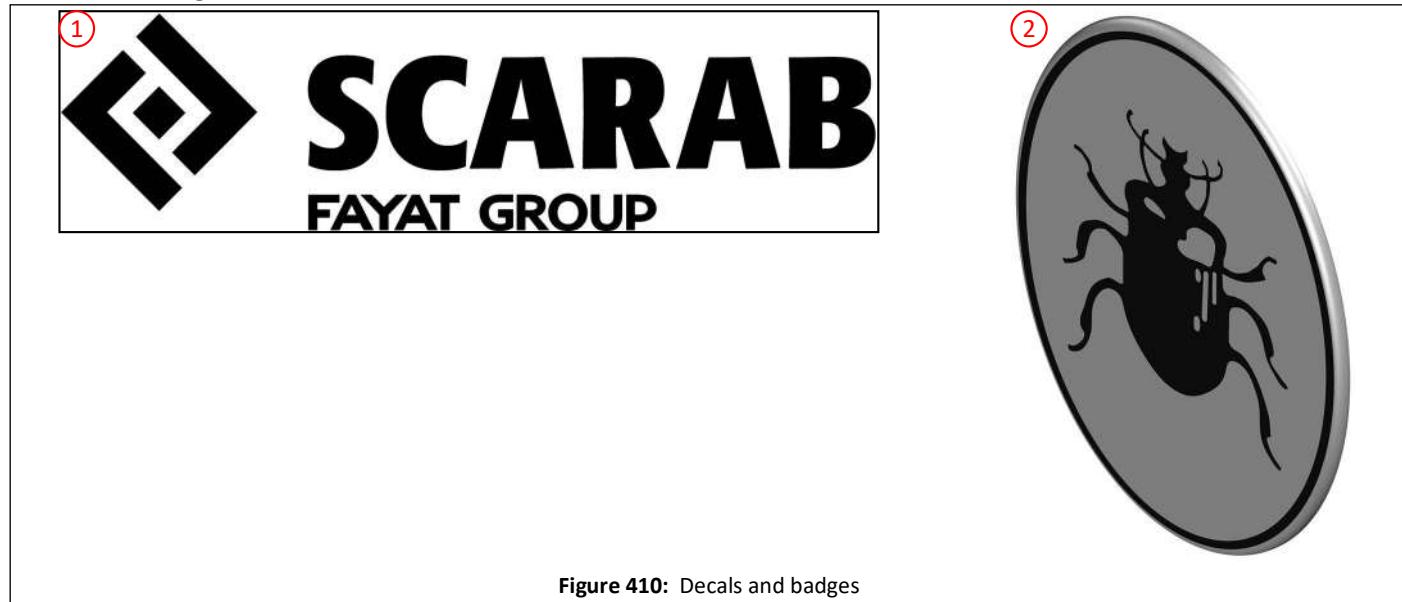


Figure 410: Decals and badges

Item	Part No	Qty	Description	
①	042983	3	Scarab Fayat logo, black	
②	040030	2	Scarab beetle badge, domed	

Multi-lingual glossary

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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	Boccolla
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	Déflecteur	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
Divertor	Diviseur	Divertor
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	Elément	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	Fluido

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	Graisseur	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
I		
Identification	Identification	Identificazione
Idle	Inactif / Ralenti	Inattivo
Ignition (Ign)	Contact	Accensione (Acc)
Illuminated	Eclairé	Illuminato
Illustrated	Illustré	Illustrato
Illustration	Illustration	Illustrazione
Impellor	Rotor / Turbine	Girante
Inclusive	Compris	Inclusivo
Information (Info)	Informations	Informazioni (Info)
In	Entré	Dentro
Inlet	Entrée	Ammisione

Multi-lingual glossary



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	Bandé 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 faîte	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

Multi-lingual glossary



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 electrique	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	Potenziometro
Power	Puissance	Potenza
Pneumatic (See Also Air)	Pneumatique	Pneumatico (vedi anche Aria)
Pressure	Pression	Pressione
Primer	Amorce / Apprét	Innesco
Production	Production	Produzione
Prop	Support	Puntello
Propshaft	Arbre de transmission	Albero puntello
Pull	Tirer	Tirare
Pulley	Poulie	Puleggia
Pulsation	Pulsion	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	Solenoide
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	Démarreur	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	Balanceur	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 bêquille	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 / Souape	Valvola
Variant	Variante	Variante
Vehicle	Véhicule	Veicolo
Voltage	Tension	Voltaggio

W

Wander Hose	Flexible aspirateur	Tubo flessibile mobile
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Multi-lingual glossary



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	Justering
Adjuster Kit	Juego regulador	Justeringsatt
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	Luftljuddämpare
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
Arrangement	Disposición	Arrangemang
Ashtray	Cenicero	Askkopp
Assembly (Assy)	Conjunto (Conj.)	Sätta ihop

English	Español	Svenska
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	Svänghjulskåpa
Bellows	Fuelle	Bälge
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
Board	Tablero	Skiva
Body	Cuerpo	Kropp
Bolt	Perno	Bult

English	Español	Svenska
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	Dämppare
Build	Construir	Bygga
Bulb	Bombilla	Lampa
Bulkhead	Mampara	Skott (i tank)
Bumper	Parachoques	Kofångare
Bump Stop	Tope	Underköringsskydd
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	
Carabiner	Mosquetón	Karbidhake
Carrier	Soporte	Bärare
Case	Caja	Fall

Multi-lingual glossary



English	Español	Svenska
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	Círculo	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
Cover	Cubierta	Skydd
Cowling	Capó	
Crank-case	Cárter	Vevhus

English	Español	Svenska
Cranked	Acodado	Krökt
Cross Member	Travesaño	Tvärlstag
Crown Wheel	Corona dentada	Kronhjul
Curb	Borde	Kansten
Cylinder	Cilindro	Cylinder
D		
Damper	Amortiguador	Dämpare
Deflector	Deflector	Riktar
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
Drive Motor	Motor de la transmisión	Drivmotor
Drive Pump	Bomba de la transmisión	Drivpump
Drive Shaft	Eje de la transmisión	Drivaxel

English	Español	Svenska
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
Fixing	Fijación	Laga
Flange	Brida	Fläns
Flap	Aleta	Dörr / öppning

English	Español	Svenska
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	Säkning
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
Grub Screw	Tornillo de presión	Avdragare
Grommet	Arandela	genomföring
Guard	Protección	Skydd

English	Español	Svenska
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
Illuminated	Encendido	Eliminerad
Illustrated	Ilustrado	Illustrerad
Illustration	Ilustración	Illustration

English	Español	Svenska
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	Infektionspump
Injector	Inyector	Infektor
Injector Pipe	Tubo del inyector	Infektorrör
Input	Entrada	Ingående
Inseal Strip	Banda de estanqueidad	
Insert	Insertar	Lägga till
Insertion	Insertión	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
L		

Multi-lingual glossary



English	Español	Svenska
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
Locker	Taquilla	Skåp
Locking	Cierre	Låsa
Long	Largo	Lång

English	Español	Svenska
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	Ungefärlik
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
N		
N/A (Not Applicable)		

English	Español	Svenska
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
Outlet	Salida	Överskott
Output	Producción	Utkommande
Overhead	En cabeza	Över huvudet

English	Español	Svenska
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 (rígidio)	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
Purple	Púrpura	Lila
Push	Empujar, empuje	Tryck

English	Español	Svenska
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	Reducor	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	Strympning
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
Rolling	Rodamiento	Rullande
Rotary	Giratorio, rotativo	Roterande

English	Español	Svenska
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 tätningsmedel
Sealing	Sellado	Täta
Seat	Asiento	Säte
Securing	Fijación	Säkra
Selector Shaft	Eje selector	Väljaraxel
Self Tapping	Aterrajado automático	Självdränerande
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	Sättsskruv
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
Skirt	Faldón	Kjol
Slate	Pizarra	

Multi-lingual glossary



English	Español	Svenska
Sleeve	Manguito	Muff
Slew	Pivatar	Svänga/slira
Slewing	Pivotaje	Svängande/slirande
Sliding	Deslizamiento	Glidande
Slotted	Ranurado	Spräckt
Small	Pequeño	Liten
Socket	Casquillo	Sockel
Solenoid	Solenoide	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	Stabilisera
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
Stud	Espárrago	
Studded	Con pasador	

English	Español	Svenska
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	Oljeträg
Supply	Suministro	Förse
Support	Asistencia, soporte	Stödja
Suppression	Supresión	Undertryck
Suspension	Suspensión	Fjädring
Sweep	Barrido	Sopa
Sweeping	Barrido, barriendo	Sopa
Swing	Oscilación	Svängna
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	
Tilt	Inclinlar	Tilt
Tilting	Inclinación	Tilta

Multi-lingual glossary



English	Español	Svenska
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	Tillsattnväxellåda
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
Variant	Variante	Variant
Vehicle	Vehículo	Fordon

English	Español	Svenska
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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