



M25H ROAD SWEEPER

PARTS BOOK



Scarab M25H

Parts Book

Part No. SCAZ043076

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Foreword

Important notice to users

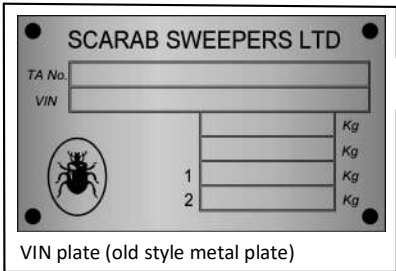
This manual is published by the Technical Publications Department of Scarab Sweepers Limited and every effort is made to ensure that the information it contains is correct at the time of publication. Due to a policy of continuous development, however, the Company reserves the right to alter the specification 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.

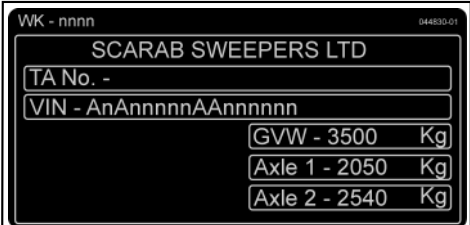
It is imperative that the correct model is fully identified when procuring replacement parts for your Scarab Sweeper. To avoid unnecessary confusion and delays caused by incorrectly ordered parts, please refer to the Vehicle Serial Number (CE) plate and take note of the vehicle's number.

i The VIN plate and the Serial Number Plate are located beneath the right hand seat within the cab, as can be seen in the picture to the right.

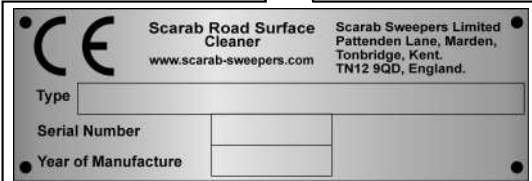
The examples shown here is for guidance only.



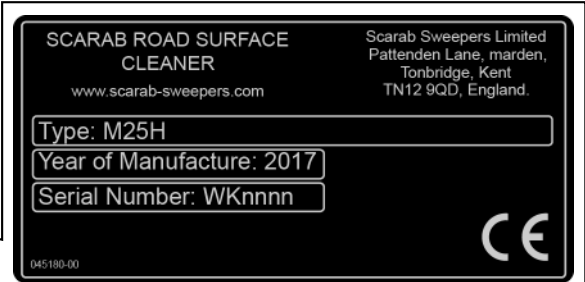
VIN plate (old style metal plate)



VIN plate (new style tamper proof label)



Serial Number (CE) plate (old style metal plate)



Serial Number (CE) plate (new style tamper proof label)

i This information should accompany any 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 to the engine fitted in the Scarab M25H 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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Sweeping

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Side brush left hand arrangement

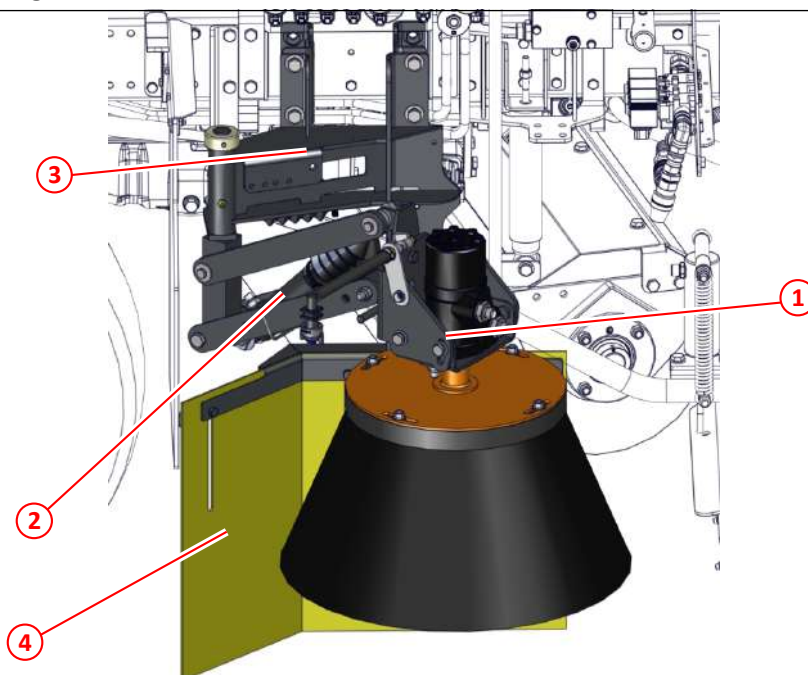


Figure 2: Side brush left hand arrangement

Item	Part No	Qty	Description	
①			Side brush motor assembly	31
②			Left hand side brush raise/lower assembly	25
③			Left hand side brush swing in/out assembly	26
④			Left hand side brush skirt	27

Side brush right hand arrangement

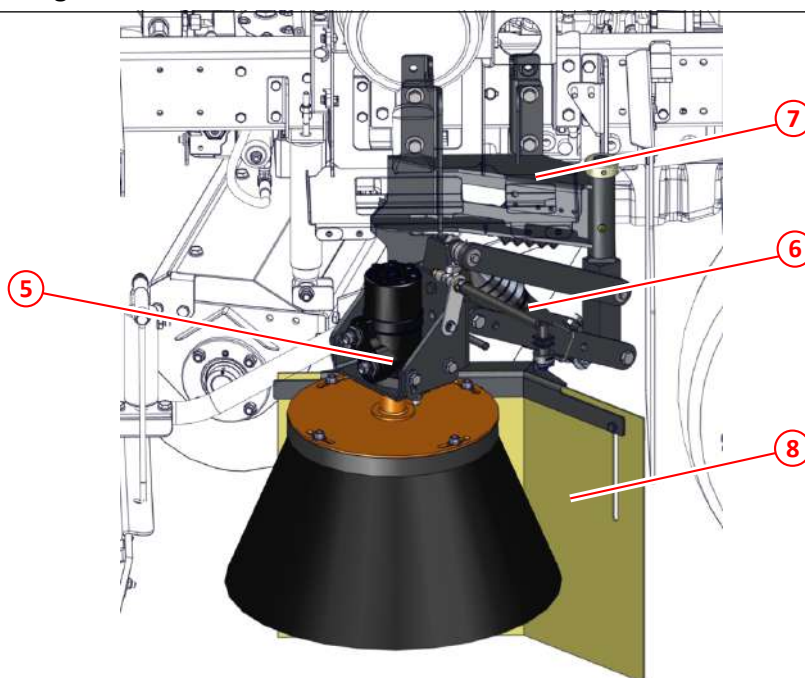


Figure 3: Side brush right hand arrangement

Item	Part No	Qty	Description	
⑤			Side brush motor assembly	31
⑥			Right hand side brush raise/lower assembly	28
⑦			Right hand side brush swing in/out assembly	29
⑧			Right hand side brush skirt	30

Left hand side brush raise/lower assembly

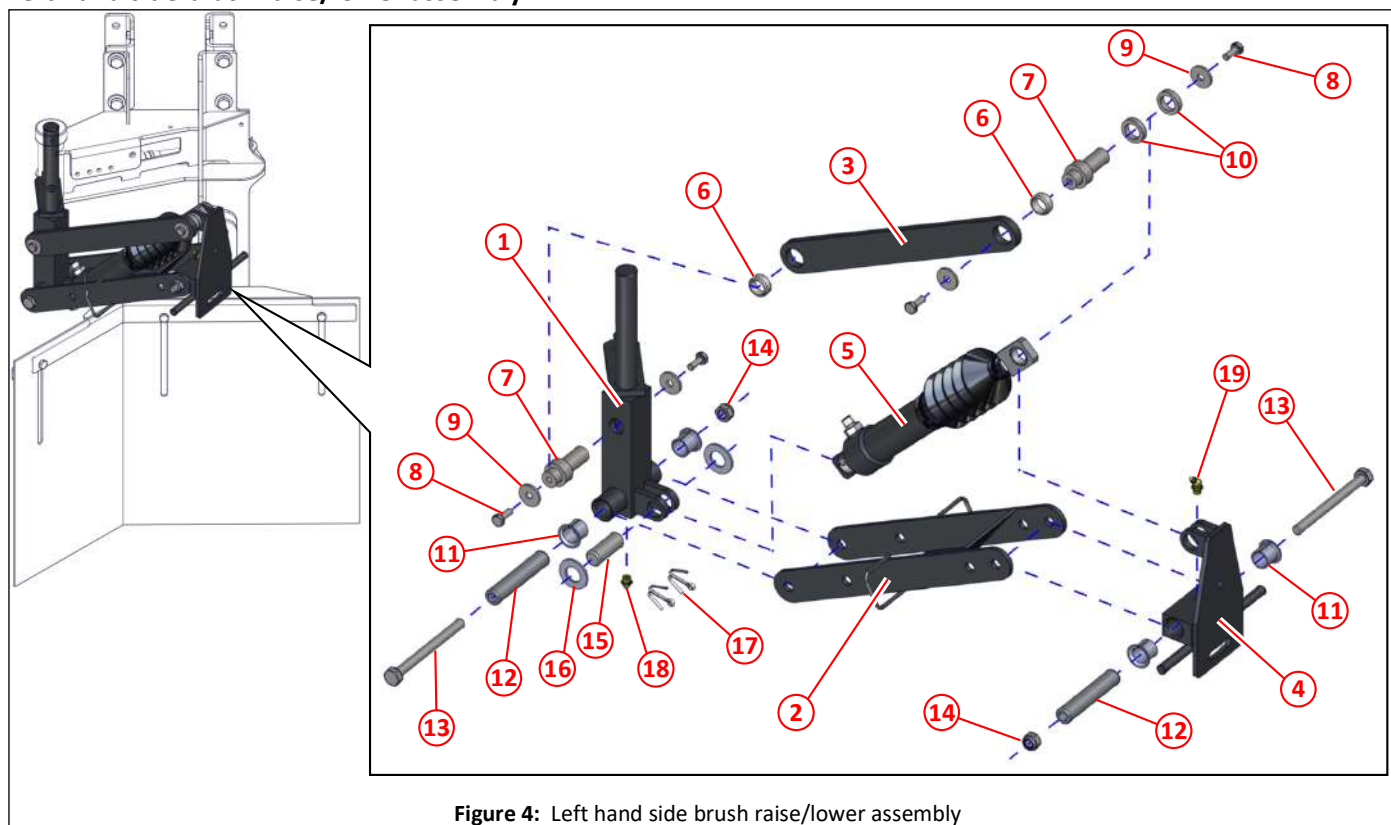


Figure 4: Left hand side brush raise/lower assembly

Item	Part No	Qty	Description	
①	041517	1	Side brush pivot left hand	26
②	013495	1	Brush link side brush	
③	041508	1	Side brush top link	
④	043047	1	Swivel plate	
⑤	027114	1	Ram No 1 240/340 assembly	206
⑥	024682	2	Bush 25 X 20 X 10	
⑦	041510	2	Brush stepped shaft	
⑧	011010	4	Set screw M8 X 20	
⑨	041513	4	Spacer 28 X 8.5 X 3	
⑩	041512	2	Spacer 30 X 20 X 6.5	
⑪	041514	4	Glacier flanged bush 20 X 23 X 21.5	
⑫	041511	2	Brush pivot shaft	
⑬	011259	2	Bolt M12 X 130	
⑭	011077	2	M12 Nyloc nut	
NI	SCAKIT046426	1	Brush pin and bush kit, contains items ⑪, ⑫, ⑬ and ⑭	
⑮	010067	1	Pin 20 X 50	
⑯	011102	2	Plain washer M20	
⑰	011122	2	Split pin $\frac{3}{16}$ " x $1\frac{1}{2}$ "	
⑱	010903	1	Grease nipple straight x $\frac{1}{8}$ " BSP	
⑲	010901	1	Grease nipple 135° x $\frac{1}{8}$ " BSP	

Left hand side brush swing in/out assembly

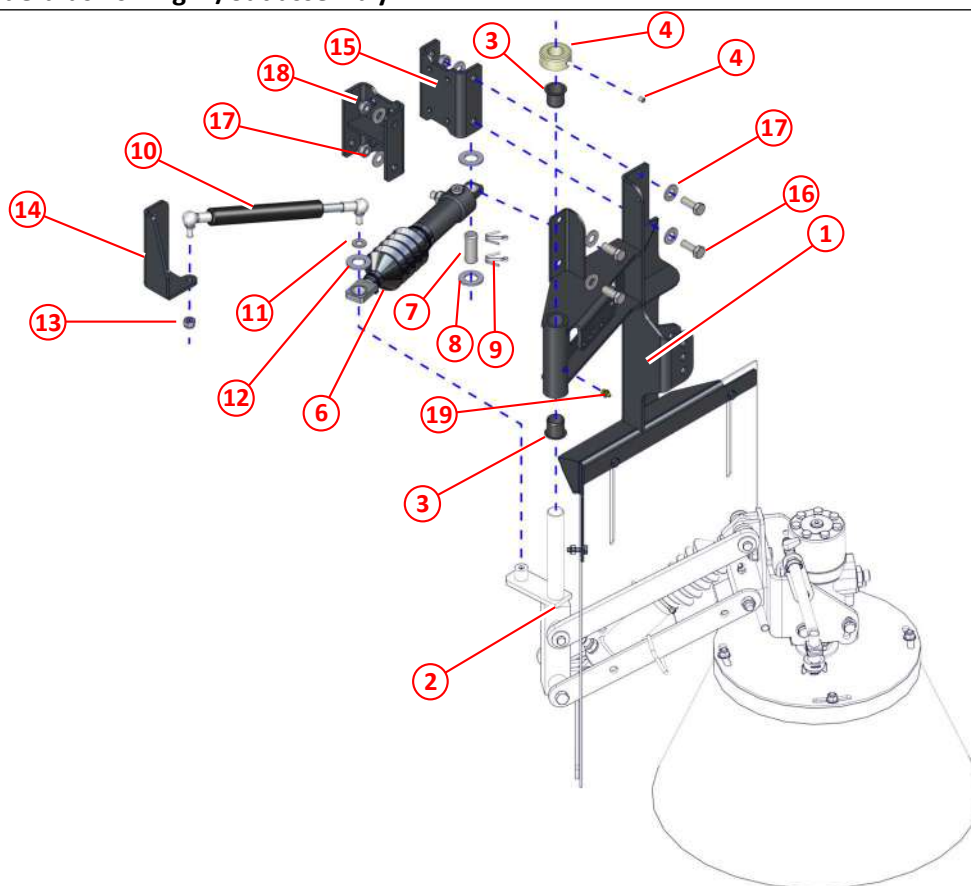


Figure 5: Left hand side brush swing in/out assembly

Item	Part No	Qty	Description	
①	013485	1	Side brush bracket left hand	
②	041517	1	Side brush pivot left hand	25
③	013662	2	Bush brush pivot	
④	010768	1	Shaft collar Ø1"	
⑤	000502	1	Set screw, socket cup point, M8 x 8, plated	
⑥	027118	1	Ram No 11 297/321 assembly	207
⑦	010067	1	Pin 20 X 50	
⑧	011102	2	Plain washer M20	
⑨	011122	2	Split pin $\frac{3}{16}$ " x $1\frac{1}{2}$ "	
⑩	013486	1	Gas strut + oil chamber	
⑪	011094	1	Washer M10	
⑫	011102	1	Plain washer M20	
⑬	011075	1	M10 Nyloc nut	
⑭	041536	1	Side brush in/out bracket left hand	
⑮	041537	2	Side brush chassis bracket	
⑯	011052	4	Set screw M12 x 30	
⑰	011096	8	Plain washer M12	
⑱	011077	4	M12 Nyloc nut	
⑲	010903	1	Grease nipple straight x $\frac{1}{8}$ " BSP	

Left hand side brush skirt

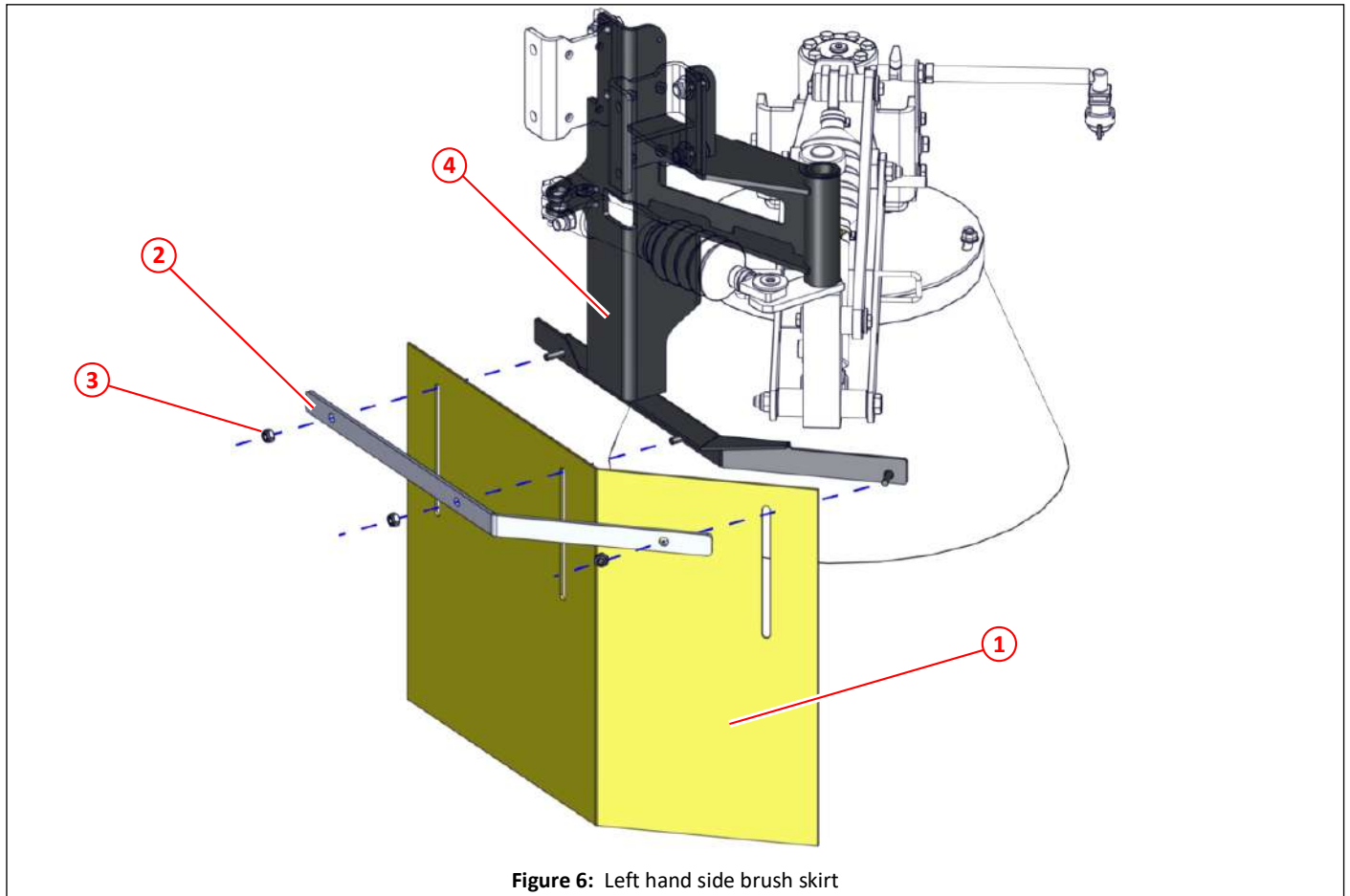


Figure 6: Left hand side brush skirt

Item	Part No	Qty	Description	
①	040709	1	Side brush skirt 3-slot standard duty	
②	014151	1	Skirt clamp	
③	011073	3	M8 Nyloc nut	
④	013485	1	Side brush bracket left hand	26

Right hand side brush raise lower/assembly

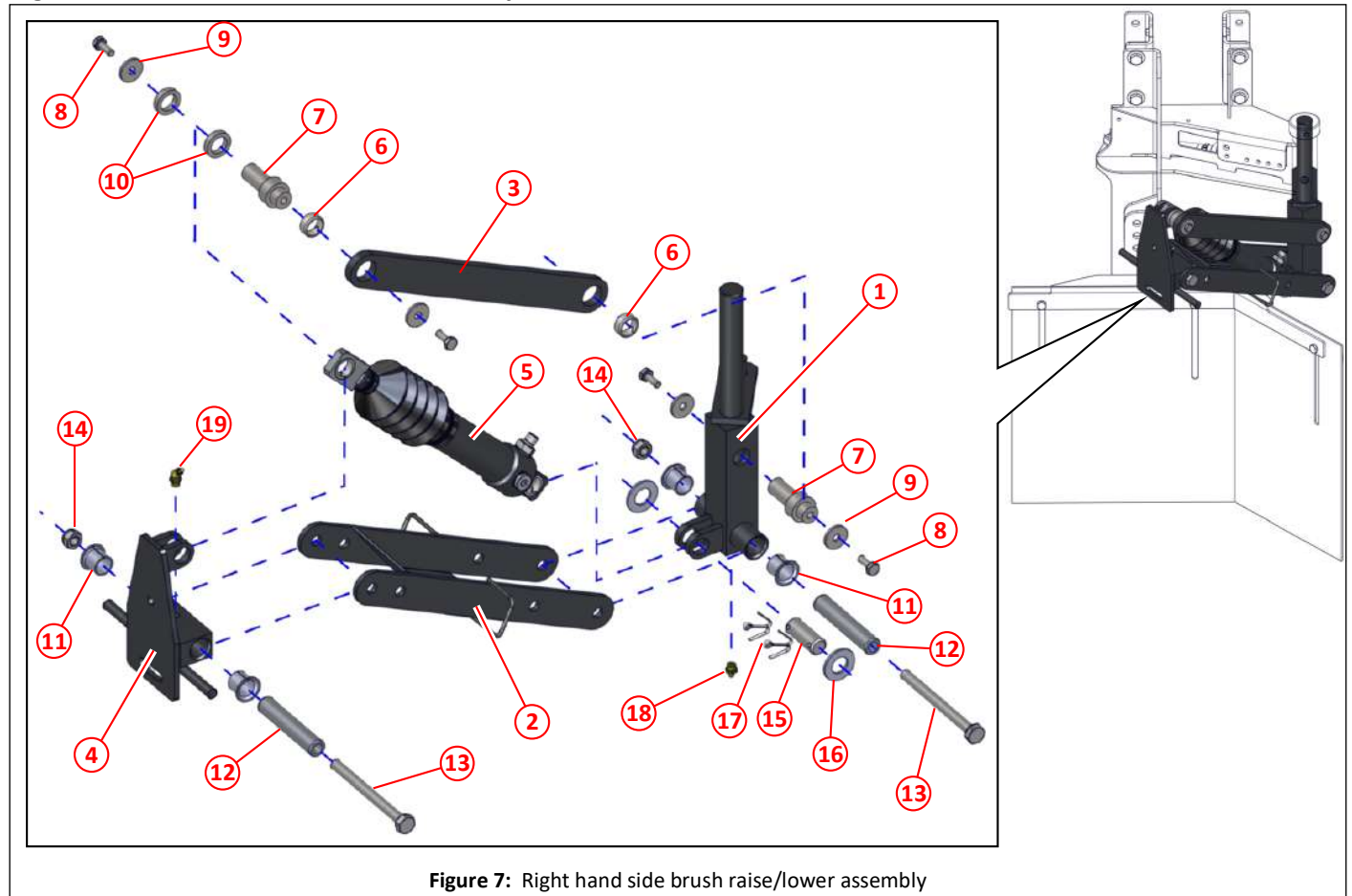


Figure 7: Right hand side brush raise/lower assembly

Item	Part No	Qty	Description	
①	041518	1	Side brush pivot right hand	29
②	013495	1	Brush link side brush	
③	041508	1	Side brush top link	
④	043047	1	Swivel plate	
⑤	027114	1	Ram No 1 240/340 assembly	206
⑥	024682	2	Bush 25 X 20 X 10	
⑦	041510	2	Brush stepped shaft	
⑧	011010	4	Set screw M8 X 20	
⑨	041513	4	Spacer 28 X 8.5 X 3	
⑩	041512	2	Spacer 30 X 20 X 6.5	
⑪	041514	4	Glacier flanged bush 20 X 23 X 21.5	
⑫	041511	2	Brush pivot shaft	
⑬	011259	2	Bolt M12 X 130	
⑭	011077	2	M12 Nyloc nut	
NI	SCAKIT046426	1	Brush pin and bush kit, contains items ⑪, ⑫, ⑬ and ⑭	
⑮	010067	1	Pin 20 X 50	
⑯	011102	2	Plain washer M20	
⑰	011122	2	Split pin $\frac{3}{16}$ " x $1\frac{1}{2}$ "	
⑱	010903	1	Grease nipple straight x $\frac{1}{8}$ " BSP	
⑲	010901	1	Grease nipple 135° x $\frac{1}{8}$ " BSP	

Right hand side brush swing in/out assembly

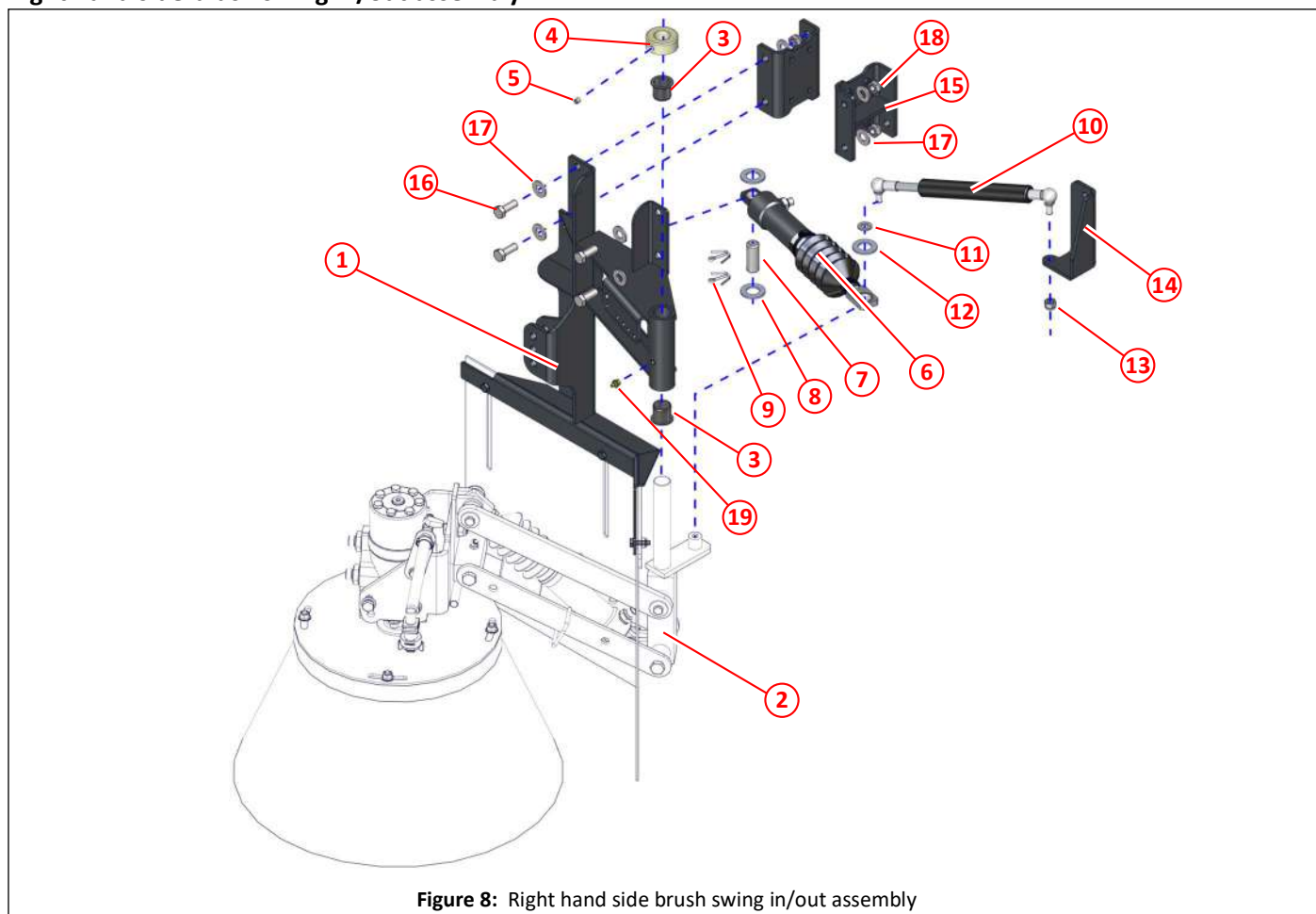
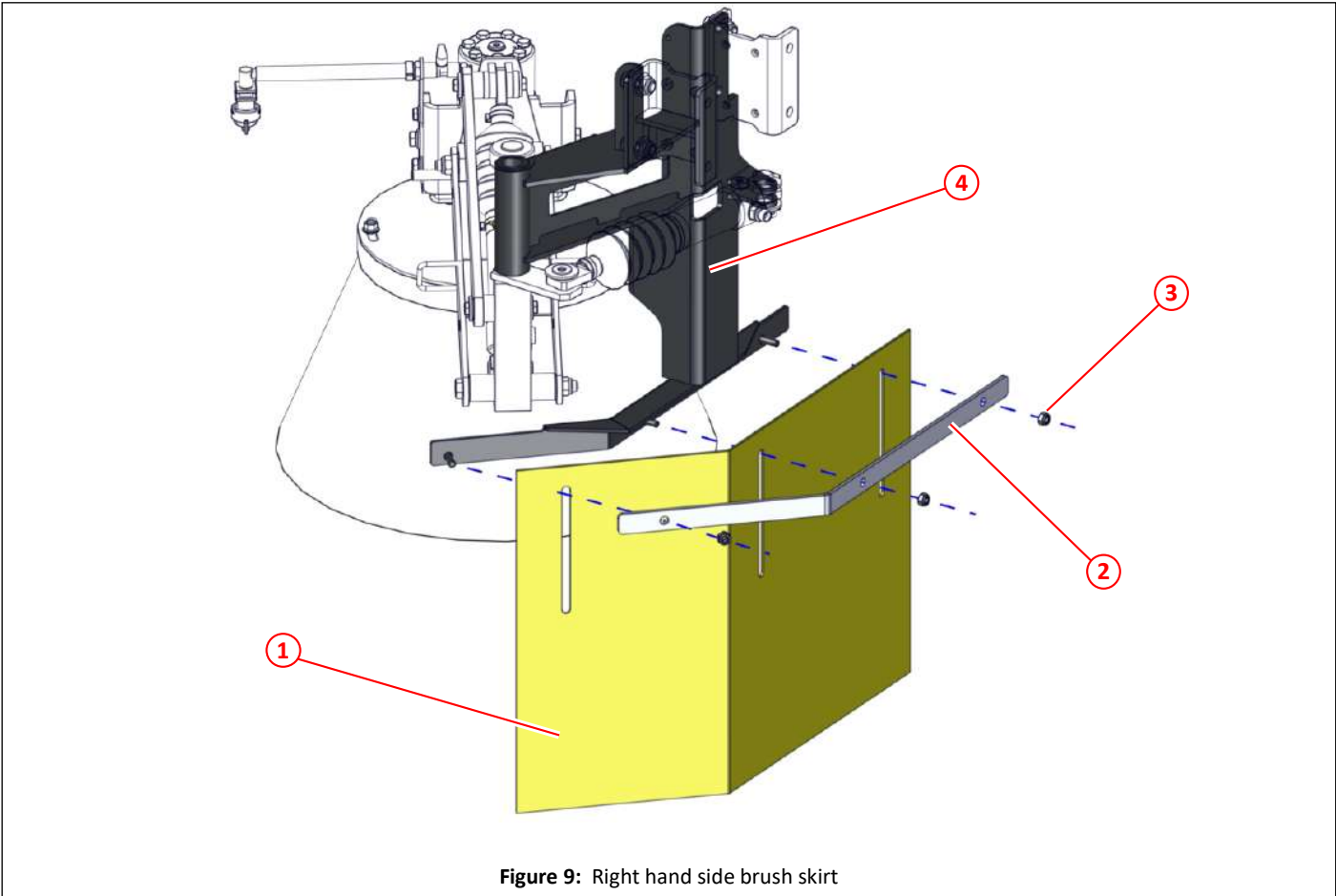


Figure 8: Right hand side brush swing in/out assembly

Item	Part No	Qty	Description	
①	014229	1	Side brush bracket right hand	
②	041518	1	Side brush pivot right hand	28
③	013662	2	Bush brush pivot	
④	010768	1	Shaft collar ø1"	
⑤	000502	1	Set screw, socket cup point, M8 x 8, plated	
⑥	027118	1	Ram No 11 297/321 assembly	207
⑦	010067	1	Pin 20 X 50	
⑧	011102	2	Plain washer M20	
⑨	011122	2	Split pin $\frac{3}{16}$ " x 1 $\frac{1}{2}$ "	
⑩	013486	1	Gas strut + oil chamber	
⑪	011094	1	Washer M10	
⑫	011102	1	Plain washer M20	
⑬	011075	1	M10 Nyloc nut	
⑭	043072	1	Side brush in/out bracket right hand	
⑮	041537	2	Side brush chassis bracket	
⑯	011052	4	Set screw M12 x 30	
⑰	011096	8	Plain washer M12	
⑱	011077	4	M12 Nyloc nut	
⑲	010903	1	Grease nipple straight x $\frac{1}{8}$ " BSP	

Right hand side brush skirt



Item	Part No	Qty	Description	
①	040709	1	Side brush skirt 3-slot standard duty	
②	014151	1	Skirt clamp	
③	011073	3	M8 Nyloc nut	
④	014229	1	Side brush bracket right hand	29

Side brush motor assembly

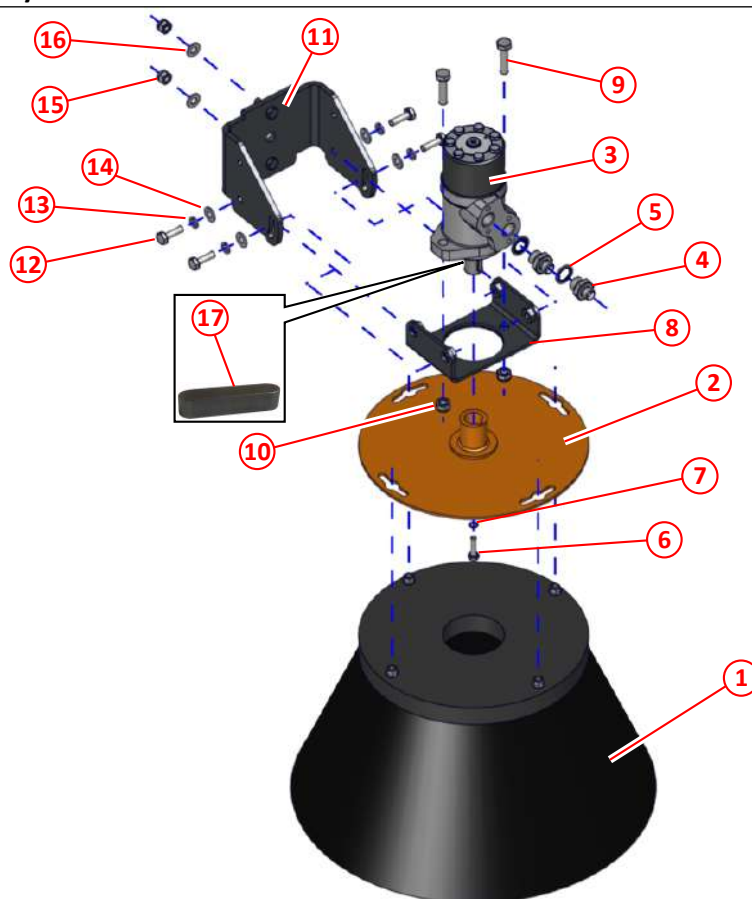


Figure 10: Side brush motor assembly

Item	Part No	Qty	Description	
①	023470	1	Brush, side ø315-ø500 steel	
②	011688	1	Brush hub, side brush	
③	010006	1	Motor 3598 (OMP 315)	203
④	011167	2	Adapter $\frac{1}{2}$ " x $\frac{3}{8}$ " BSP	
⑤	011154	2	Dowty seal $\frac{1}{2}$ " BSP	
⑥	011012	1	Set screw M8 x 30	
⑦	040197	1	Schnorr safety washer type VS8	
⑧	037794	1	Front brush motor bracket	
⑨	011054	2	Set screw M12 X 45	
⑩	011077	2	M12 Nyloc nut	
⑪	041509	1	Side brush tilt bracket	
⑫	011032	4	Set screw M10 X 30	
⑬	011095	4	Spring washer M10	
⑭	011094	4	Plain washer M10	
⑮	011075	2	M10 Nyloc nut	
⑯	011094	2	Plain washer M10	
⑰	011515	1	Key, for item ③	

Front left brush arrangement, left hand and dual sweep

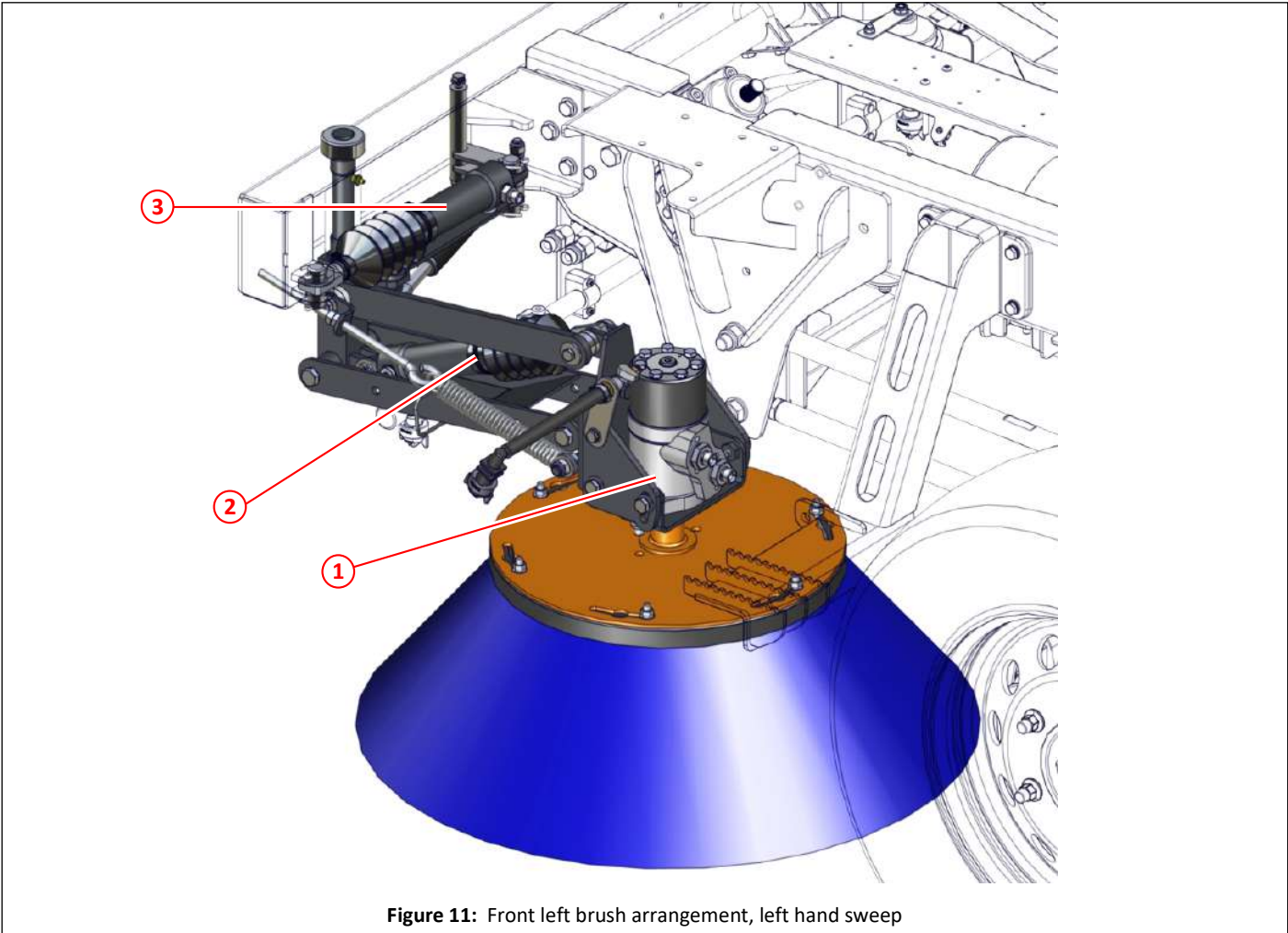


Figure 11: Front left brush arrangement, left hand sweep

Item	Part No	Qty	Description	
①			Front brush motor assembly	48
②			Front left brush lift assembly left hand and dual sweep	33,34
③			Front left brush swing assembly left hand and dual sweep	35

Front left brush lift, left hand and dual sweep (part 1)

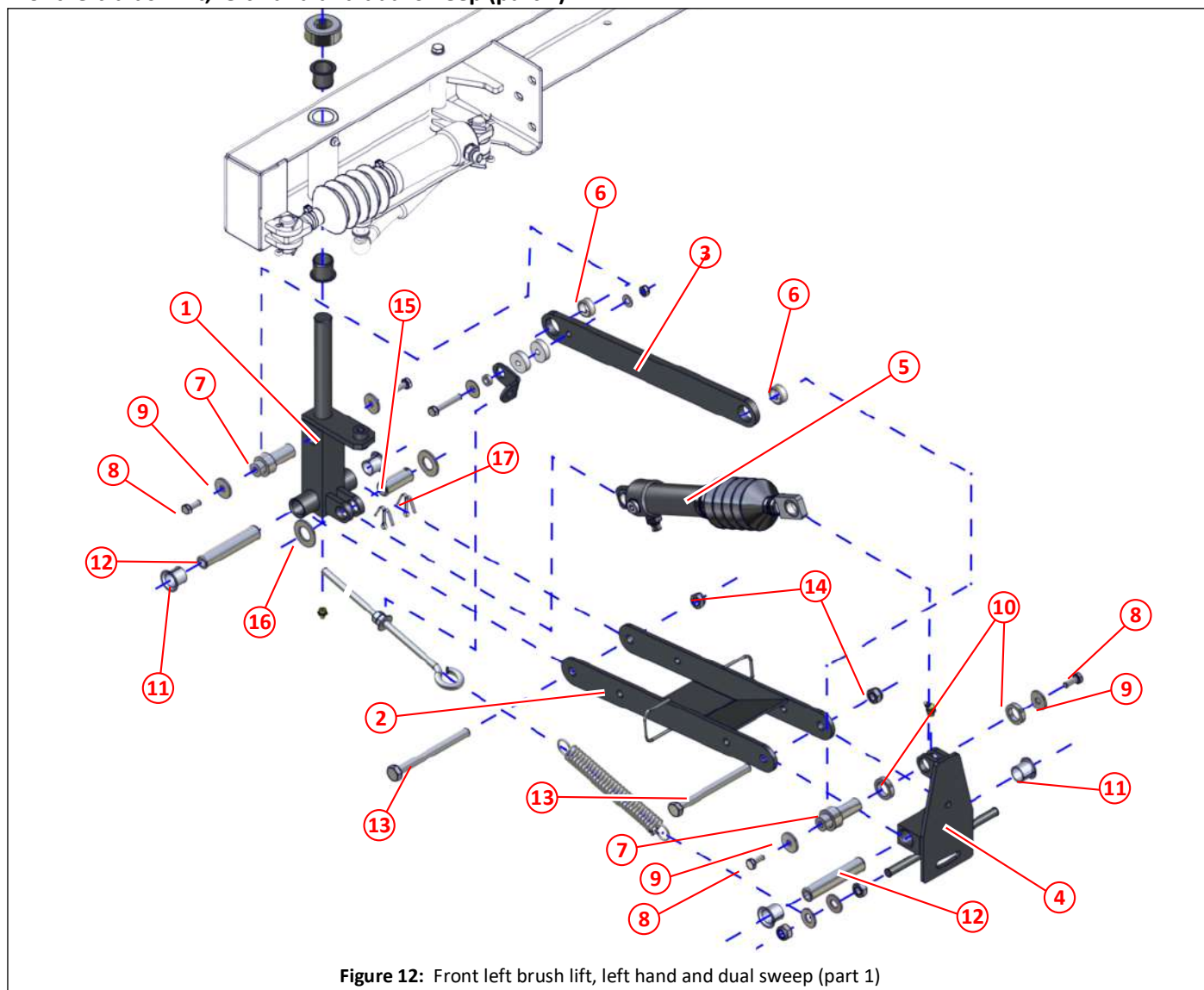


Figure 12: Front left brush lift, left hand and dual sweep (part 1)

Item	Part No	Qty	Description	
①	041504	1	Front brush pivot	35
②	013494	1	Front brush link	
③	041505	1	Front brush top link	
④	043047	1	Swivel plate	
⑤	027114	1	Ram No 1 240/340 assembly	206
⑥	024682	2	Bush 25 x 20 x 10	
⑦	041510	2	Brush stepped shaft	
⑧	011010	4	Set screw M8 X 20	
⑨	041513	4	Spacer 28 X 8.5 X 3	
⑩	041512	2	Spacer 30 X 20 X 6.5	
⑪	041514	4	Glacier flanged bush $\varnothing 20 \times \varnothing 23 \times 21.5$	
⑫	041511	2	Brush pivot shaft	
⑬	011259	2	Bolt M12 X 130	
⑭	011077	2	M12 Nyloc nut	
NI	SCAKIT046426	1	Brush pin and bush kit, contains items ⑪, ⑫, ⑬ and ⑭	
⑮	010067	1	Pin 20 X 50	
⑯	011102	2	Plain washer M20	
⑰	011122	2	Split pin $\frac{3}{16}'' \times 1 \frac{1}{2}''$	

Front left brush lift, left hand and dual sweep (part 2)

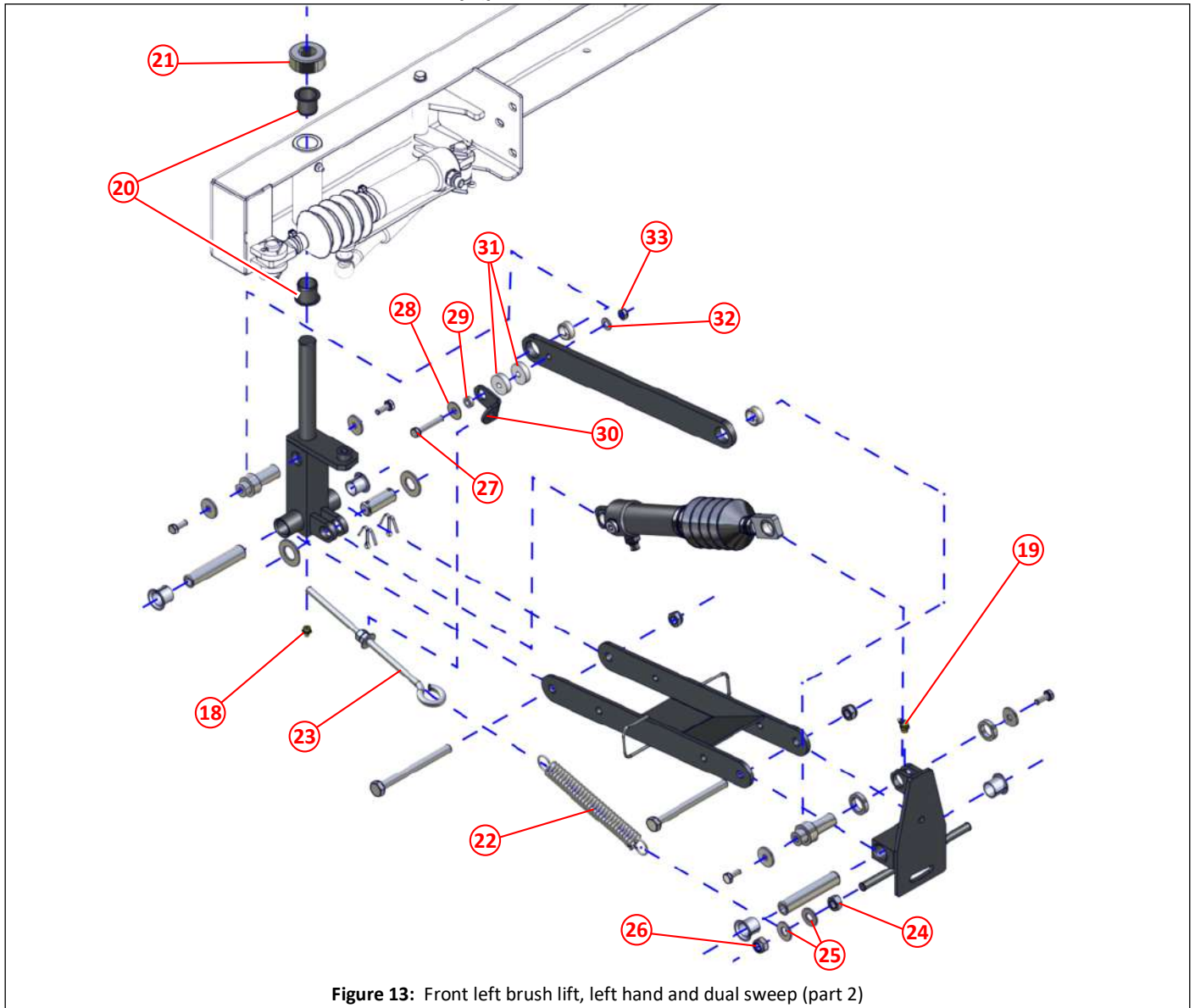


Figure 13: Front left brush lift, left hand and dual sweep (part 2)

Item	Part No	Qty	Description	
18	010903	1	Grease nipple straight x $\frac{1}{8}$ " BSP	
19	010901	1	Grease nipple 135° x $\frac{1}{8}$ " BSP	
20	013662	2	Bush brush pivot	35
21	010768	1	Shaft collar $\varnothing 1"$	35
22	010521	1	Spring	
23	010248	1	Tensioner includes nuts and washers	
24	011076	1	Hex full nut M12	
25	011096	2	Plain washer M12	
26	011097	1	M12 Nyloc nut	
27	011015	1	Set screw M8 x 45	
28	000407	1	Repair washer M8, plated	
29	039244	1	Spacer $\varnothing 8.5 \times \varnothing 15 \times 4.5$	
30	039240	1	Spring anchor front brush	
31	025794	2	Spacer $\varnothing 8.2 \times \varnothing 30 \times 8.0$	
32	011092	1	Plain washer M8	
33	011073	1	M8 Nyloc nut	

Front left brush swing, left hand and dual sweep

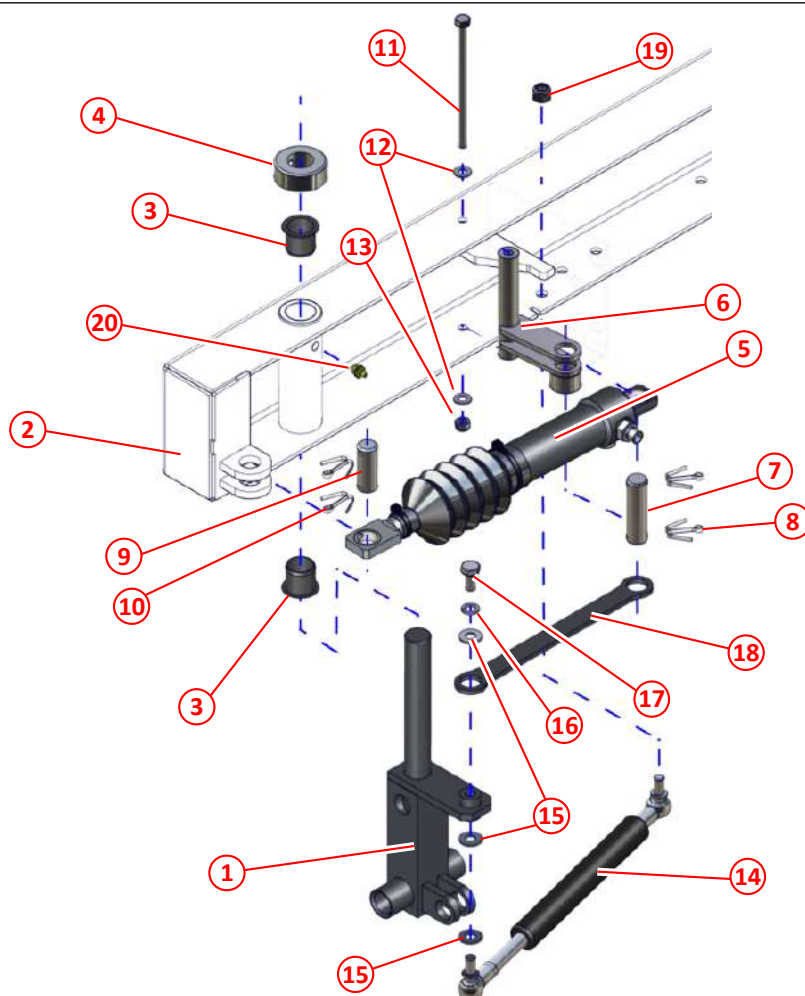


Figure 14: Front left brush swing, left hand and dual sweep

Item	Part No	Qty	Description	
①	041504	1	Front brush pivot	33
②	044417	1	Front bumper	341
③	013662	2	Bush brush pivot	34
④	010768	1	Shaft collar $\varnothing 1"$	34
⑤	040350	1	Ram No14 291/340 22mm rod assembly	208
⑥	013496	1	Pivot lever	
⑦	014038	1	Pin 20 x 70	
⑧	011122	2	Split pin $\frac{3}{16}" \times 1 \frac{1}{2}"$	
⑨	010067	1	Pin 20 X 50	
⑩	011122	2	Split pin $\frac{3}{16}" \times 1 \frac{1}{2}"$	
⑪	011262	1	Bolt M8 x 140	
⑫	011092	2	Plain washer M8	
⑬	011073	1	M8 Nyloc nut	
⑭	013486	1	Gas strut + oil chamber	
⑮	011094	3	Plain washer M10	
⑯	011095	1	Spring washer M10	
⑰	011030	1	Set screw M10 x 20	
⑱	013497	1	Link	
⑲	011075	1	M10 Nyloc nut	
⑳	010903	1	Grease nipple straight x $\frac{1}{8}"$ BSP	

Front right brush arrangement, right hand and dual sweep

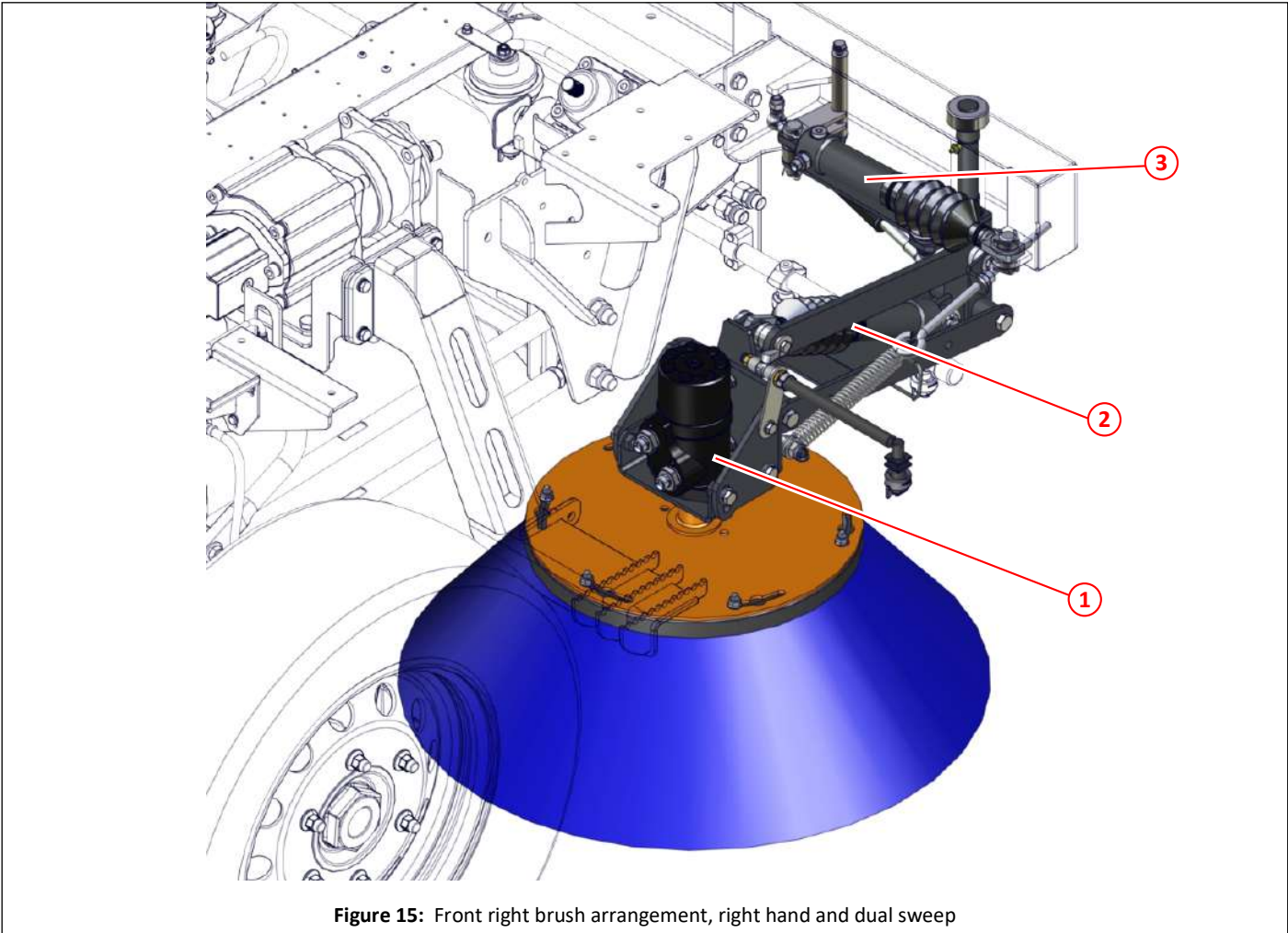


Figure 15: Front right brush arrangement, right hand and dual sweep

Item	Part No	Qty	Description	
①			Front brush motor assembly	48
②			Front right brush lift assembly right hand and dual sweep	37,38
③			Front right brush swing assembly right hand and dual sweep	39

Front right brush lift, right hand and dual sweep lift (part 1)

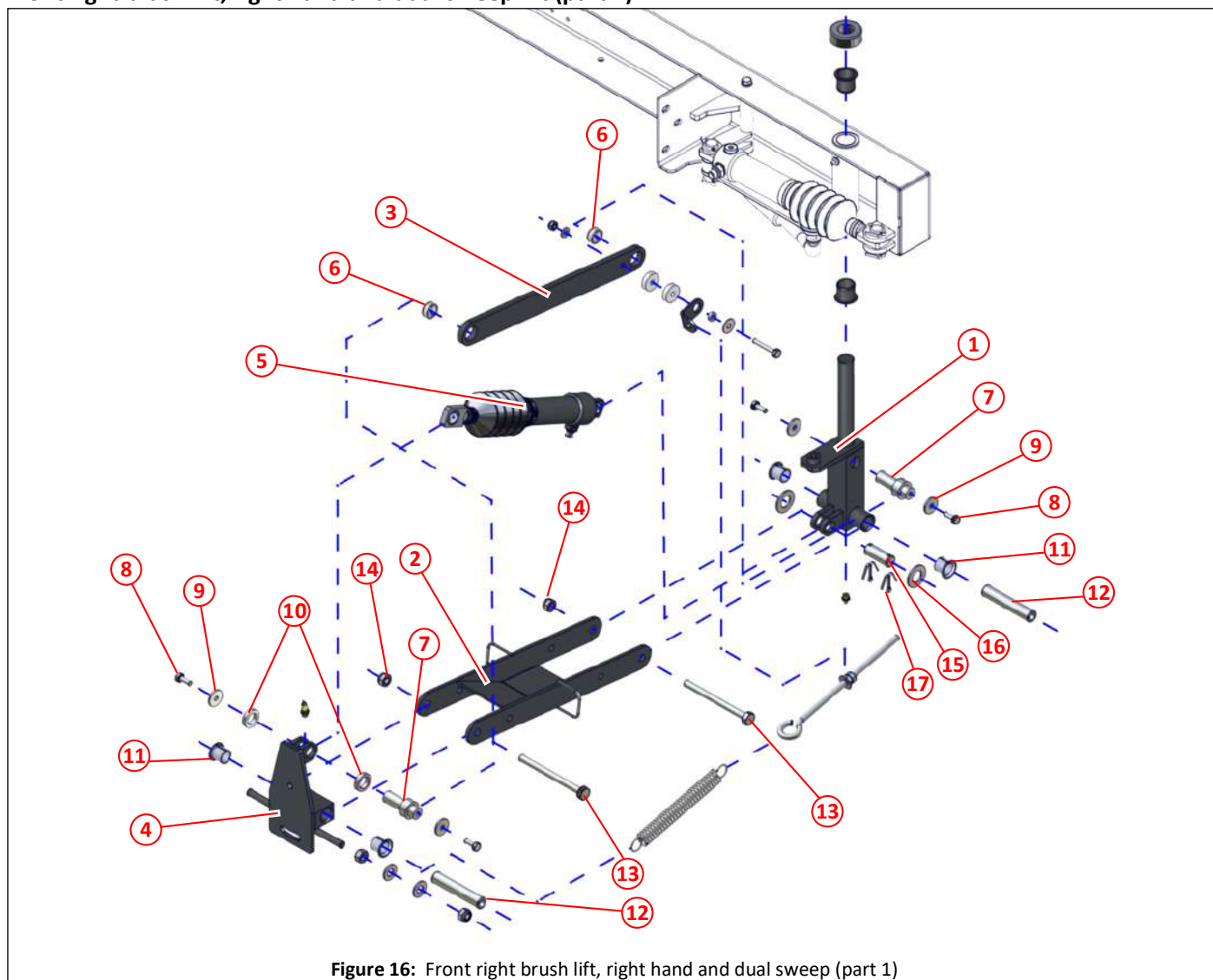


Figure 16: Front right brush lift, right hand and dual sweep (part 1)

Item	Part No	Qty	Description	
①	041504	1	Front brush pivot	
②	013494	1	Front brush link	
③	041505	1	Front brush top link	
④	043047	1	Swivel plate	
⑤	027114	1	Ram No 1 240/340 assembly	206
⑥	024682	2	Bush 25 x 20 x 10	
⑦	041510	2	Brush stepped shaft	
⑧	011010	4	Set screw M8 X 20	
⑨	041513	4	Spacer 28 X 8.5 X 3	
⑩	041512	2	Spacer 30 X 20 X 6.5	
⑪	041514	4	Glacier flanged bush 20 X 23 X 21.5	
⑫	041511	2	Brush pivot shaft	
⑬	011259	2	Bolt M12 X 130	
⑭	011077	2	M12 Nyloc nut	
NI	SCAKIT046426	1	Brush pin and bush kit, contains items ⑪, ⑫, ⑬ and ⑭	
⑮	010067	1	Pin 20 X 50	
⑯	011102	2	Plain washer M20	
⑰	011122	2	Split pin $\frac{3}{16}$ " x 1 $\frac{1}{2}$ "	

Front right brush lift, right hand and dual sweep (part 2)

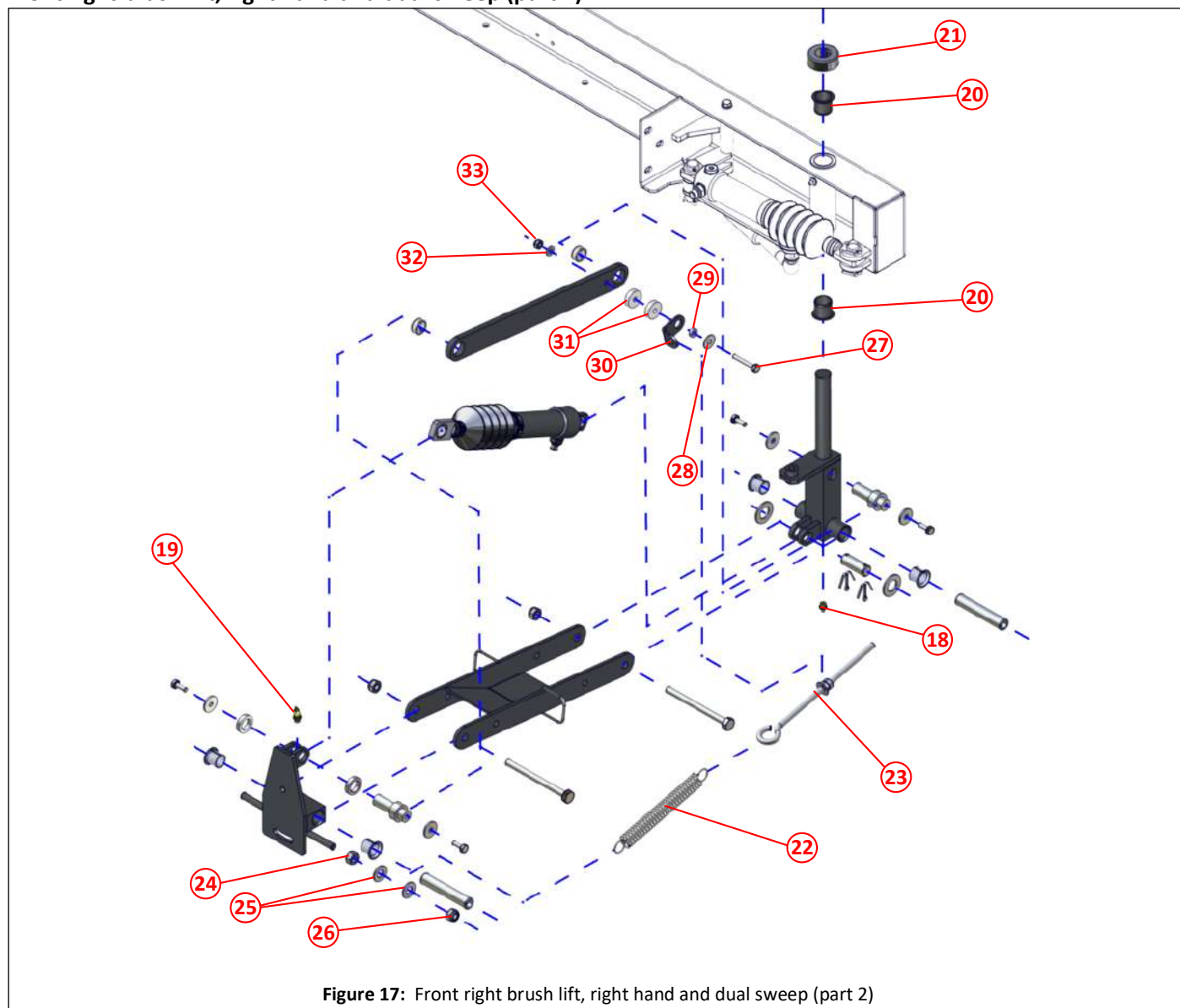


Figure 17: Front right brush lift, right hand and dual sweep (part 2)

Item	Part No	Qty	Description	
18	010903	1	Grease nipple straight x $\frac{1}{8}$ " BSP	
19	010901	1	Grease nipple 135° x $\frac{1}{8}$ " BSP	
20	013662	2	Bush brush pivot	
21	010768	1	Shaft collar $\varnothing 1"$	
22	010521	1	Spring	
23	010248	1	Tensioner includes nuts and washers	
24	011076	1	Hex full nut M12	
25	011096	2	Plain washer M12	
26	011097	1	M12 Nyloc nut	
27	011015	1	Set screw M8 x 45	
28	000407	1	Repair washer M8, plated	
29	039244	1	Spacer $\varnothing 8.5 \times \varnothing 15 \times 4.5$	
30	039240	1	Spring anchor front brush	
31	025794	2	Spacer $\varnothing 8.2 \times \varnothing 30 \times 8.0$	
32	011092	1	Plain washer M8	
33	011073	1	M8 Nyloc nut	

Front right brush swing, right hand and dual sweep

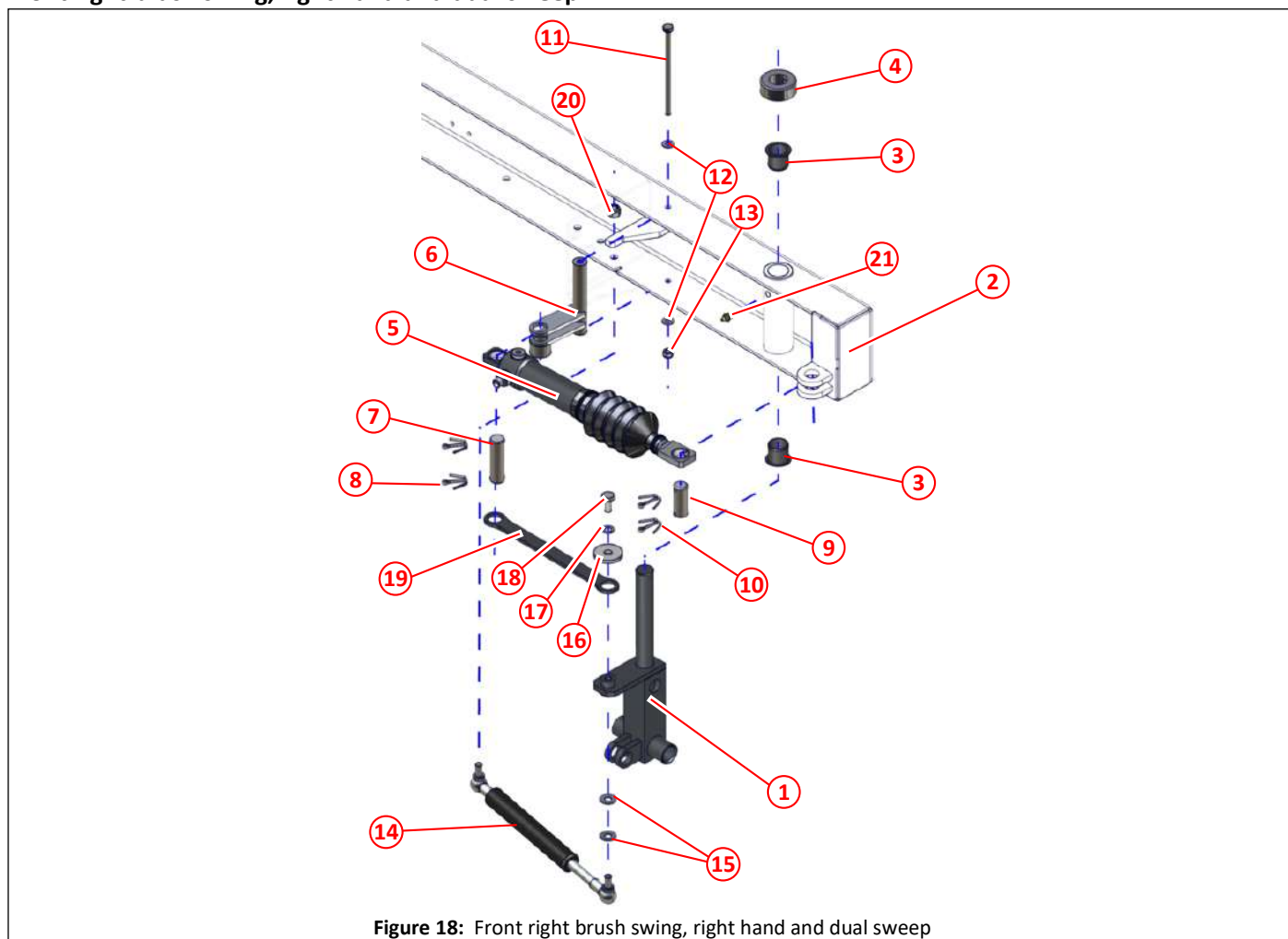
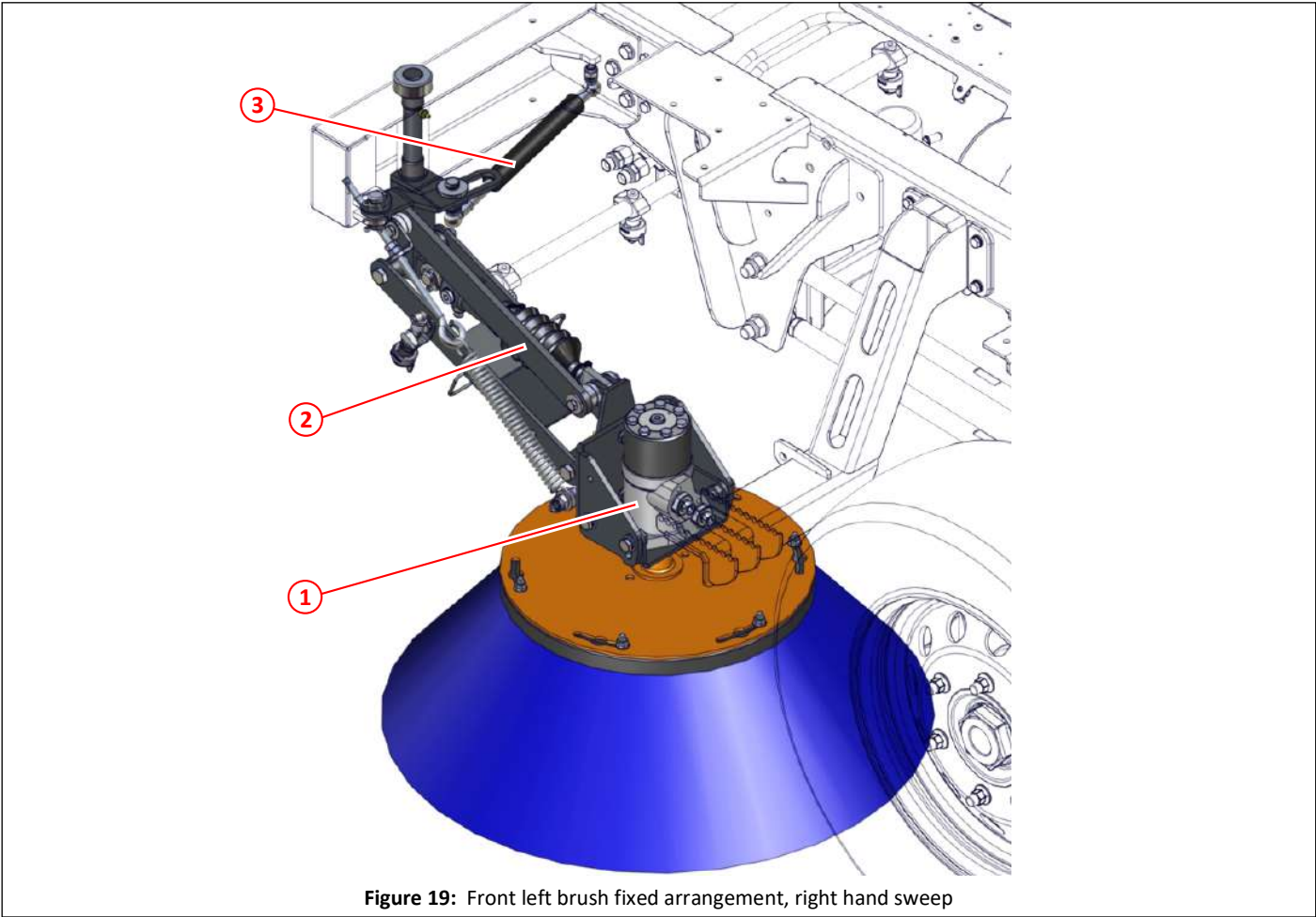


Figure 18: Front right brush swing, right hand and dual sweep

Item	Part No	Qty	Description	
①	041504	1	Front brush pivot	37
②	044417	1	Front bumper	341
③	013662	2	Bush brush pivot	38
④	010768	1	Shaft collar $\varnothing 1''$	38
⑤	040350	1	Ram No14 291/340 22mm rod assembly	208
⑥	013496	1	Pivot lever	
⑦	014038	1	Pin 20 x 70	
⑧	011122	2	Split pin $\frac{3}{16}'' \times 1 \frac{1}{2}''$	
⑨	010067	1	Pin 20 X 50	
⑩	011122	2	Split pin $\frac{3}{16}'' \times 1 \frac{1}{2}''$	
⑪	011262	1	Bolt M8 x 140	
⑫	011092	2	Plain washer M8	
⑬	011073	1	M8 Nyloc nut	
⑭	013486	1	Gas strut + oil chamber	
⑮	011094	2	Plain washer M10	
⑯	030537	1	Washer $\varnothing 10.5 \times \varnothing 40 \times 5$	
⑰	011095	1	Spring washer M10	
⑱	011030	1	Set screw M10 x 20	
⑲	013497	1	Link	
⑳	011075	1	M10 Nyloc nut	
㉑	010903	1	Grease nipple straight x $\frac{1}{8}''$ BSP	

Front left brush fixed arrangement, right hand sweep



Item	Part No	Qty	Description	
①			Front brush motor assembly	48
②			Front right brush lift assembly right hand sweep	41,42
③			Front right brush swing assembly right hand sweep	43

Front left brush fixed lift, right hand sweep (part 1)

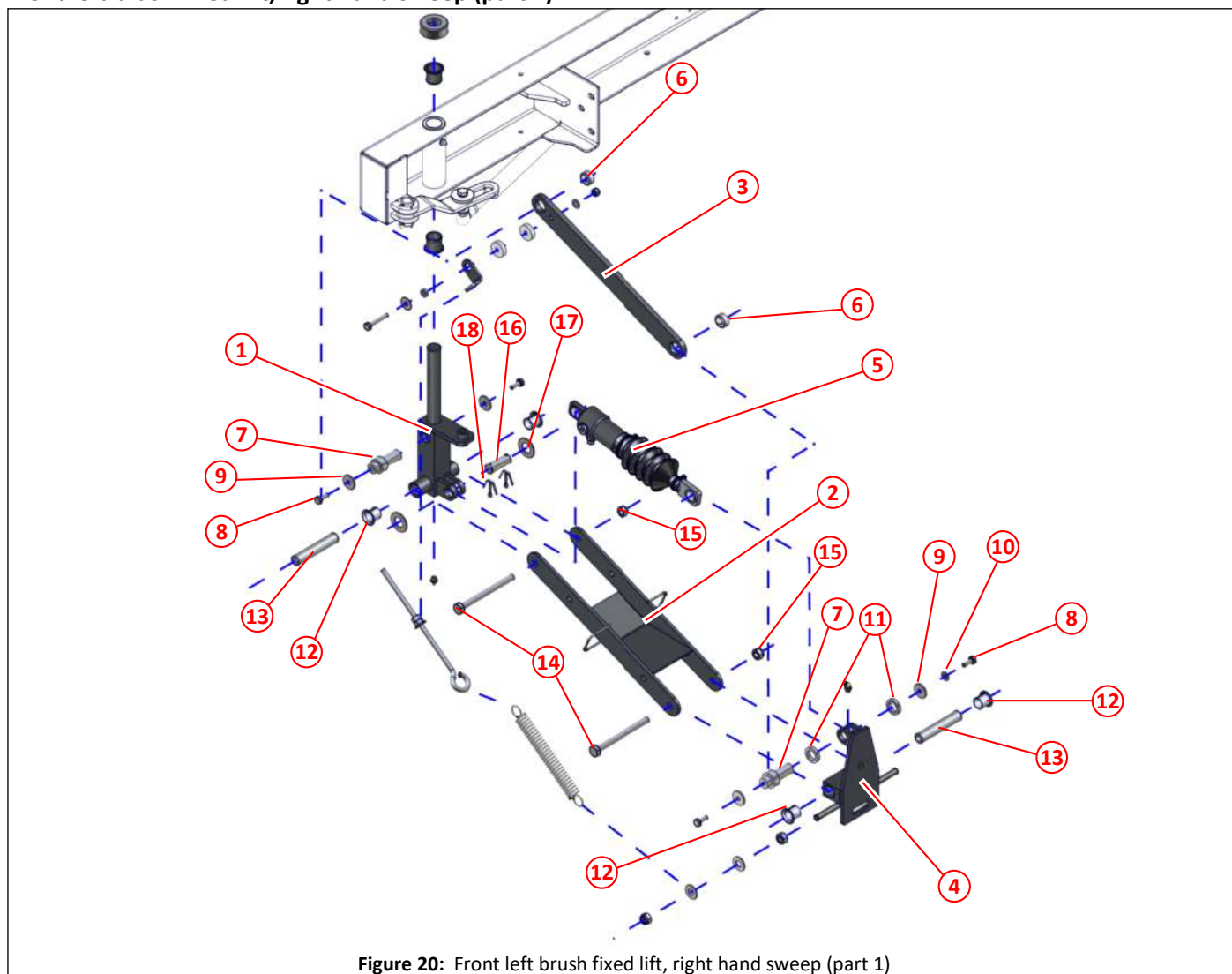


Figure 20: Front left brush fixed lift, right hand sweep (part 1)

Item	Part No	Qty	Description	
①	041504	1	Front brush pivot	43
②	013494	1	Front brush link	
③	041505	1	Front brush top link	
④	043047	1	Swivel plate	
⑤	027114	1	Ram No 1 240/340 assembly	206
⑥	024682	2	Bush 25 x 20 x 10	
⑦	041510	2	Brush stepped shaft	
⑧	011010	4	Set screw M8 X 20	
⑨	041513	4	Spacer 28 X 8.5 X 3	
⑩	011092	1	Plain washer M8	
⑪	041512	2	Spacer $\varnothing 20 \times \varnothing 30 \times 6.5$	
⑫	041514	4	Glacier flanged bush $\varnothing 20 \times \varnothing 23 \times 21.5$	
⑬	041511	2	Brush pivot shaft	
⑭	011259	2	Bolt M12 X 130	
⑮	011077	2	M12 Nyloc nut	
NI	SCAKIT045795	1	Brush pin and bush kit, contains items ⑫, ⑬, ⑭ and ⑮	
⑯	010067	1	Pin 20 X 50	
⑰	011102	2	Plain washer M20	
⑱	011122	2	Split pin $\frac{3}{16}'' \times 1 \frac{1}{2}''$	

Front left brush fixed lift, right hand sweep (part 2)

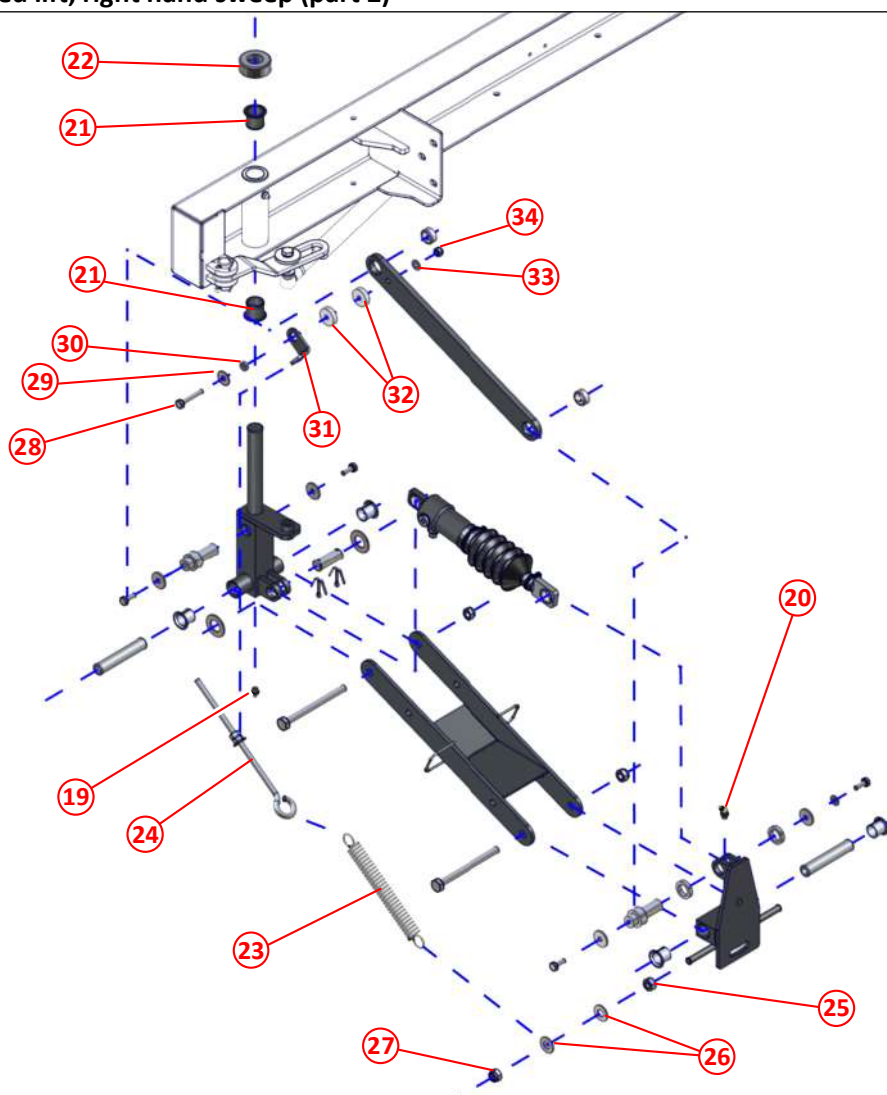


Figure 21: Front left brush fixed lift, right hand sweep (part 2)

Item	Part No	Qty	Description	
19	010903	1	Grease nipple straight x $\frac{1}{8}$ " BSP	
20	010901	1	Grease nipple 135° x $\frac{1}{8}$ " BSP	
21	013662	2	Bush brush pivots	
22	010768	1	Shaft collar $\phi 1"$	43
23	010521	1	Spring	43
24	010248	1	Tensioner includes nuts and washers	
25	011076	1	Hex full nut M12	
26	011096	2	Plain washer M12	
27	011097	1	M12 Nyloc nut	
28	011015	1	Set screw M8 x 45	
29	000407	1	Repair washer M8, plated	
30	039244	1	Spacer $\phi 8.5$ x $\phi 15$ x 4.5	
31	039240	1	Spring anchor front brush	
32	025794	2	Spacer $\phi 8.2$ x $\phi 30$ x 8.0	
33	011092	1	Plain washer M8	
34	011073	1	M8 Nyloc nut	

Front left brush fixed kick back, right hand sweep

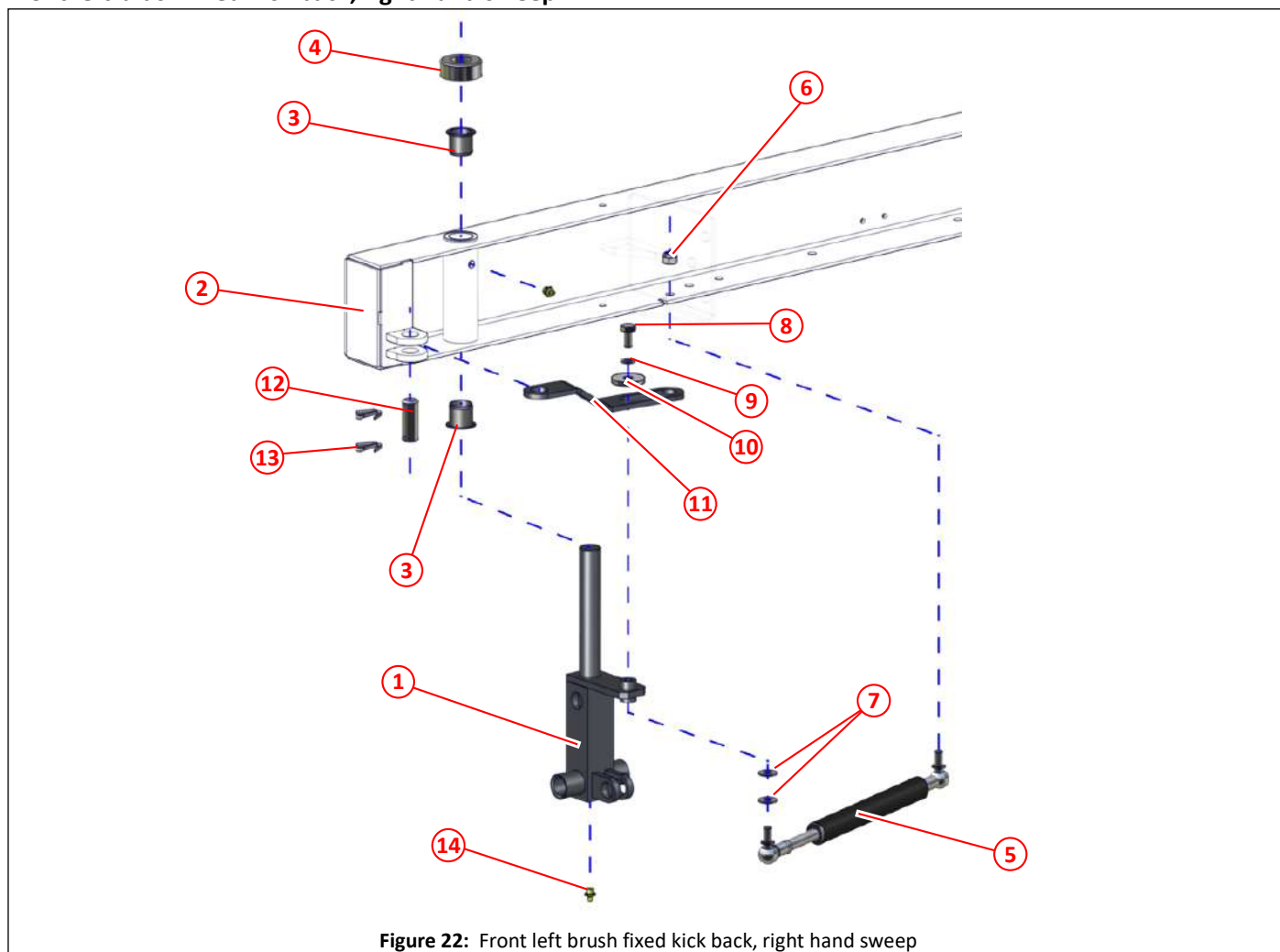
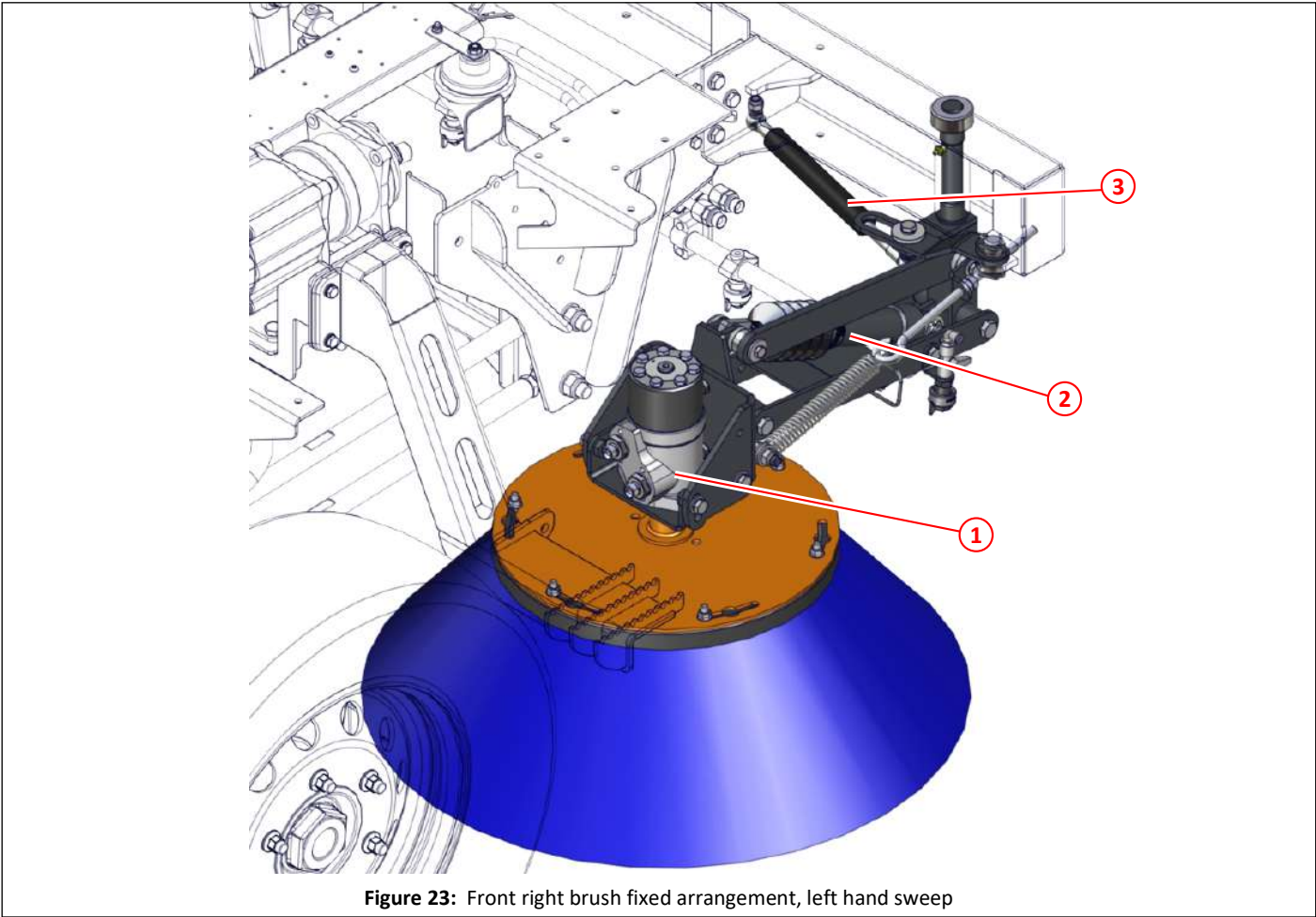


Figure 22: Front left brush fixed kick back, right hand sweep

Item	Part No	Qty	Description	
①	041504	1	Front brush pivot	41
②	044417	1	Front bumper	341
③	013662	2	Bush brush pivots	42
④	010768	1	Shaft collar $\phi 1''$	42
⑤	013486	1	Gas strut + oil chamber	
⑥	011075	1	M10 Nyloc nut	
⑦	011094	2	Plain washer M10	
⑧	011030	1	Set screw M10 x 20	
⑨	011095	1	Spring washer M10	
⑩	030357	1	Washer $\phi 10.5 \times \phi 40 \times 5$	
⑪	014904	1	Link front brush	
⑫	010067	1	Pin 20 X 50	
⑬	011122	2	Split pin $\frac{3}{16}'' \times 1 \frac{1}{2}''$	
⑭	010903	1	Grease nipple straight x $\frac{1}{8}''$ BSP	

Front right brush fixed arrangement, left hand sweep



Item	Part No	Qty	Description	
①			Front brush motor assembly	48
②			Front right brush lift assembly left hand sweep	45,46
③			Front right brush kick back assembly left hand sweep	47

Front right brush fixed lift, left hand sweep (part 1)

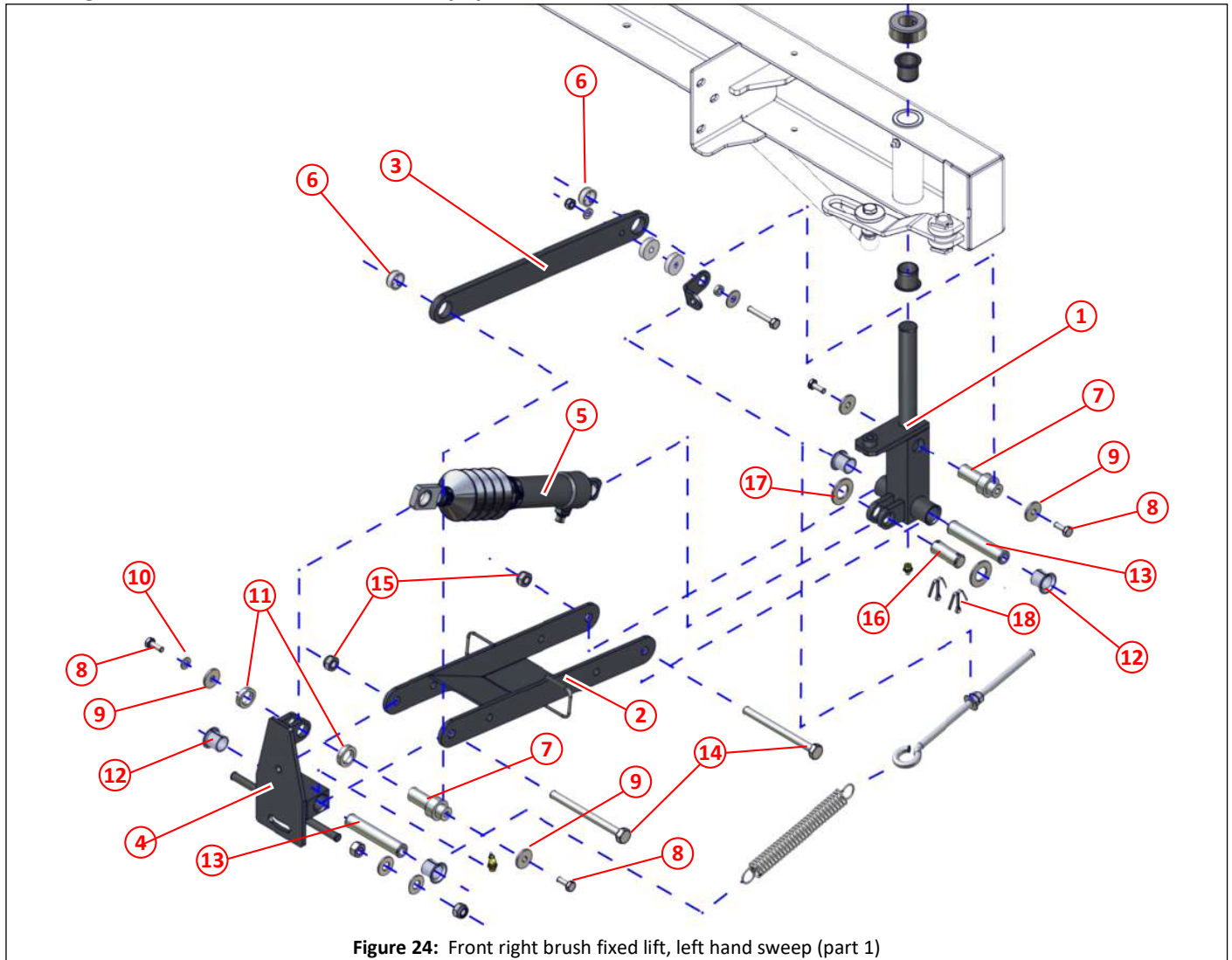


Figure 24: Front right brush fixed lift, left hand sweep (part 1)

Item	Part No	Qty	Description	
①	041504	1	Front brush pivot	47
②	013494	1	Front brush link	
③	041505	1	Front brush top link	
④	043047	1	Swivel plate	
⑤	027114	1	Ram No 1 240/340 assembly	206
⑥	024682	2	Bush 25 x 20 x 10	
⑦	041510	2	Brush stepped shaft	
⑧	011010	4	Set screw M8 X 20	
⑨	041513	4	Spacer 28 X 8.5 X 3	
⑩	011092	1	Plain washer M8	
⑪	041512	2	Spacer 30 X 20 X 6.5	
⑫	041514	4	Glacier flanged bush $\varnothing 20 \times \varnothing 23 \times 21.5$	
⑬	041511	2	Brush pivot shaft	
⑭	011259	2	Bolt M12 X 130	
⑮	011077	2	M12 Nyloc nut	
NI	SCAKIT046426	1	Brush pin and bush kit, contains items ⑫, ⑬, ⑭ and ⑮	
⑯	010067	1	Pin 20 X 50	
⑰	011102	2	Plain washer M20	
⑱	011122	2	Split pin $\frac{3}{16}'' \times 1 \frac{1}{2}''$	

Front right brush fixed lift, left hand sweep (part 2)

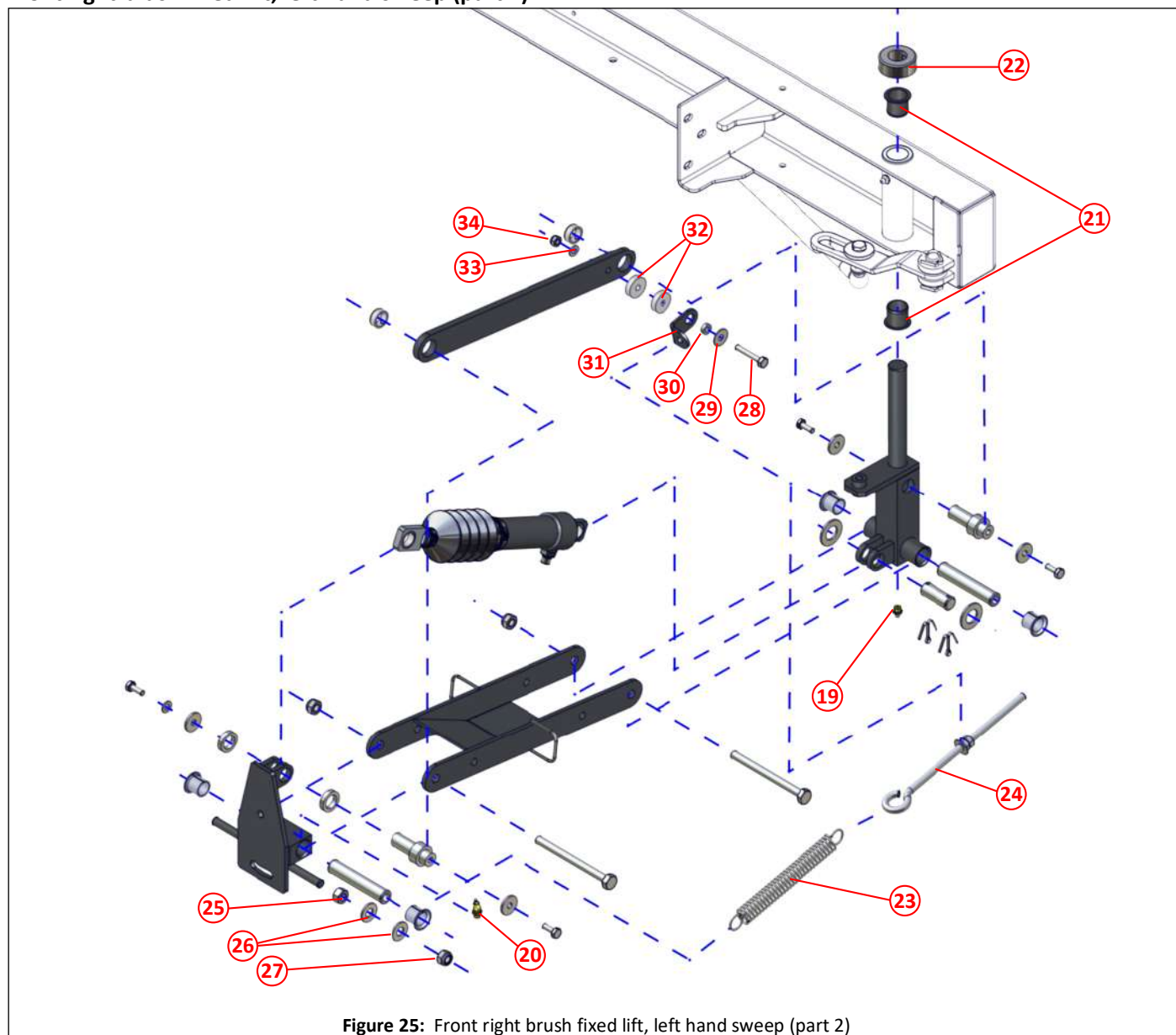


Figure 25: Front right brush fixed lift, left hand sweep (part 2)

Item	Part No	Qty	Description	
19	010903	1	Grease nipple straight x $\frac{1}{8}$ " BSP	
20	010901	1	Grease nipple 135° x $\frac{1}{8}$ " BSP	
21	013662	2	Bush brush pivots	
22	010768	1	Shaft collar $\phi 1"$	
23	010521	1	Spring	
24	010248	1	Tensioner includes nuts and washers	
25	011076	1	Hex full nut M12	
26	011096	2	Plain washer M12	
27	011097	1	M12 Nyloc nut	
28	011015	1	Set screw M8 x 45	
29	000407	1	Repair washer M8, plated	
30	039244	1	Spacer $\phi 8.5$ x $\phi 15$ x 4.5	
31	039240	1	Spring anchor front brush	
32	025794	2	Spacer $\phi 8.2$ x $\phi 30$ x 8.0	
33	011092	1	Plain washer M8	
34	011073	1	M8 Nyloc nut	

Front right brush fixed kick back, left hand sweep

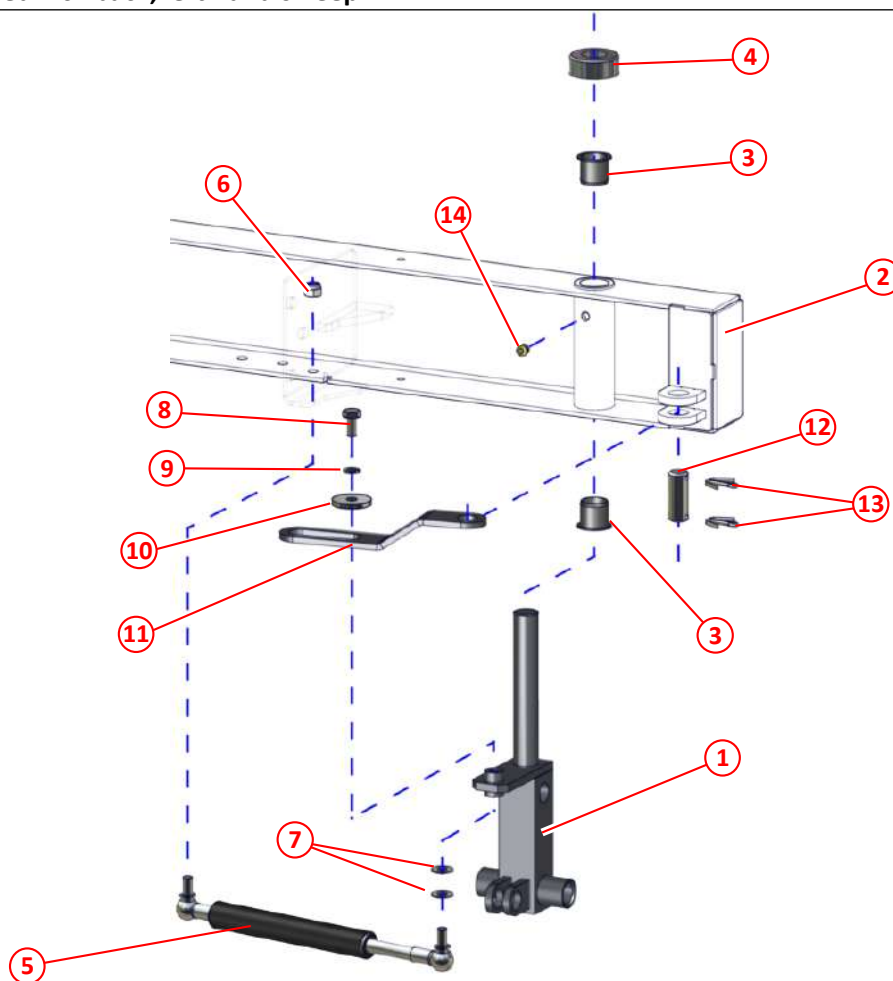


Figure 26: Front right brush fixed kick back, left hand sweep

Item	Part No	Qty	Description	
①	041504	1	Front brush pivot	45
②	044417	1	Front bumper	
③	013662	2	Bush brush pivots	46
④	010768	1	Shaft collar $\varnothing 1''$	46
⑤	013486	1	Gas strut + oil chamber	
⑥	011075	1	M10 Nyloc nut	
⑦	011094	2	Plain washer M10	
⑧	011030	1	Set screw M10 x 20	
⑨	011095	1	Spring washer M10	
⑩	030357	1	Washer $\varnothing 10.5 \times \varnothing 40 \times 5$	
⑪	014904	1	Link front brush	
⑫	010067	1	Pin 20 X 50	
⑬	011122	2	Split pin $\frac{3}{16}'' \times 1 \frac{1}{2}''$	
⑭	010903	1	Grease nipple straight x $\frac{1}{8}''$ BSP	

Front brush motor assembly

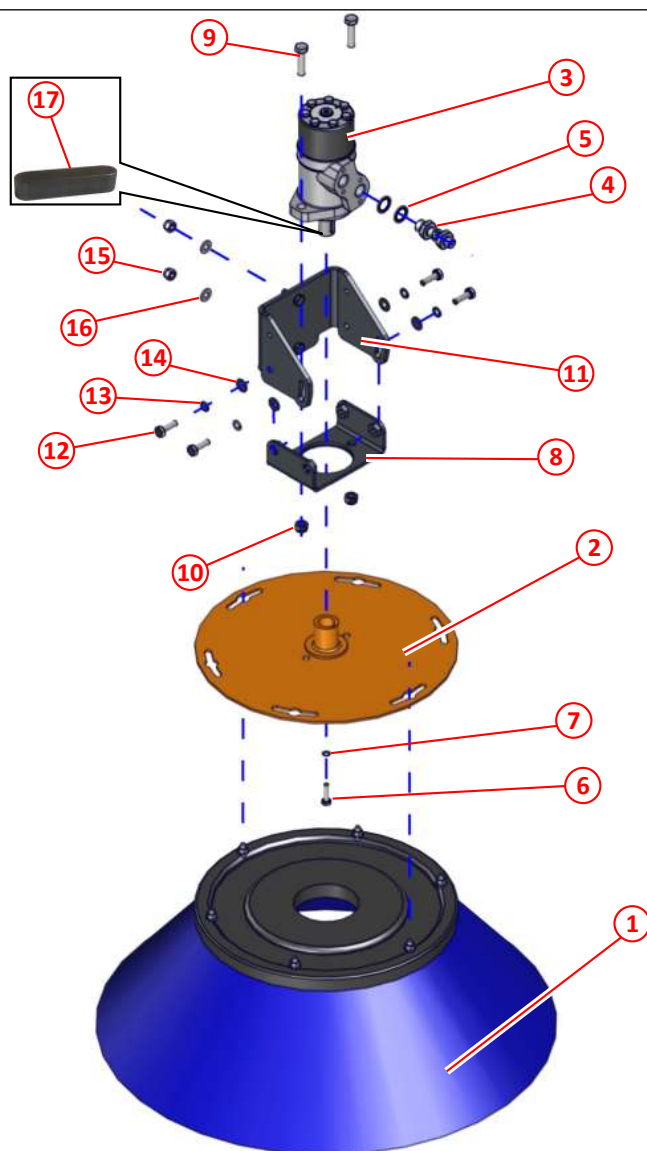


Figure 27: Front brush motor assembly

Item	Part No	Qty	Description	
①	023469	1	Brush, front $\varnothing 400$ - $\varnothing 700$ poly	
②	024139	1	Brush hub, front brush	
③	010006	1	Motor 3598 (OMP 315)	203
④	011167	2	Adapter $\frac{1}{2}$ " x $\frac{3}{8}$ " BSP	
⑤	011154	2	Dowty seal $\frac{1}{2}$ " BSP	
⑥	011012	1	Set screw M8 x 30	
⑦	040197	1	Schnorr safety washer type VS8	
⑧	037794	1	Front brush motor bracket	
⑨	011054	2	Set screw M12 x 45	
⑩	011077	2	M12 Nyloc nut	
⑪	041506	1	Front brush tilt bracket	
⑫	011032	4	Set screw M10 x 30	
⑬	011095	4	Spring washer M10	
⑭	011094	4	Plain washer M10	
⑮	011075	2	M10 Nyloc nut	
⑯	011094	2	Plain washer M10	
⑰	011515	1	Key, for item ③	

Central brush (wide sweep) left hand single sweep arrangement

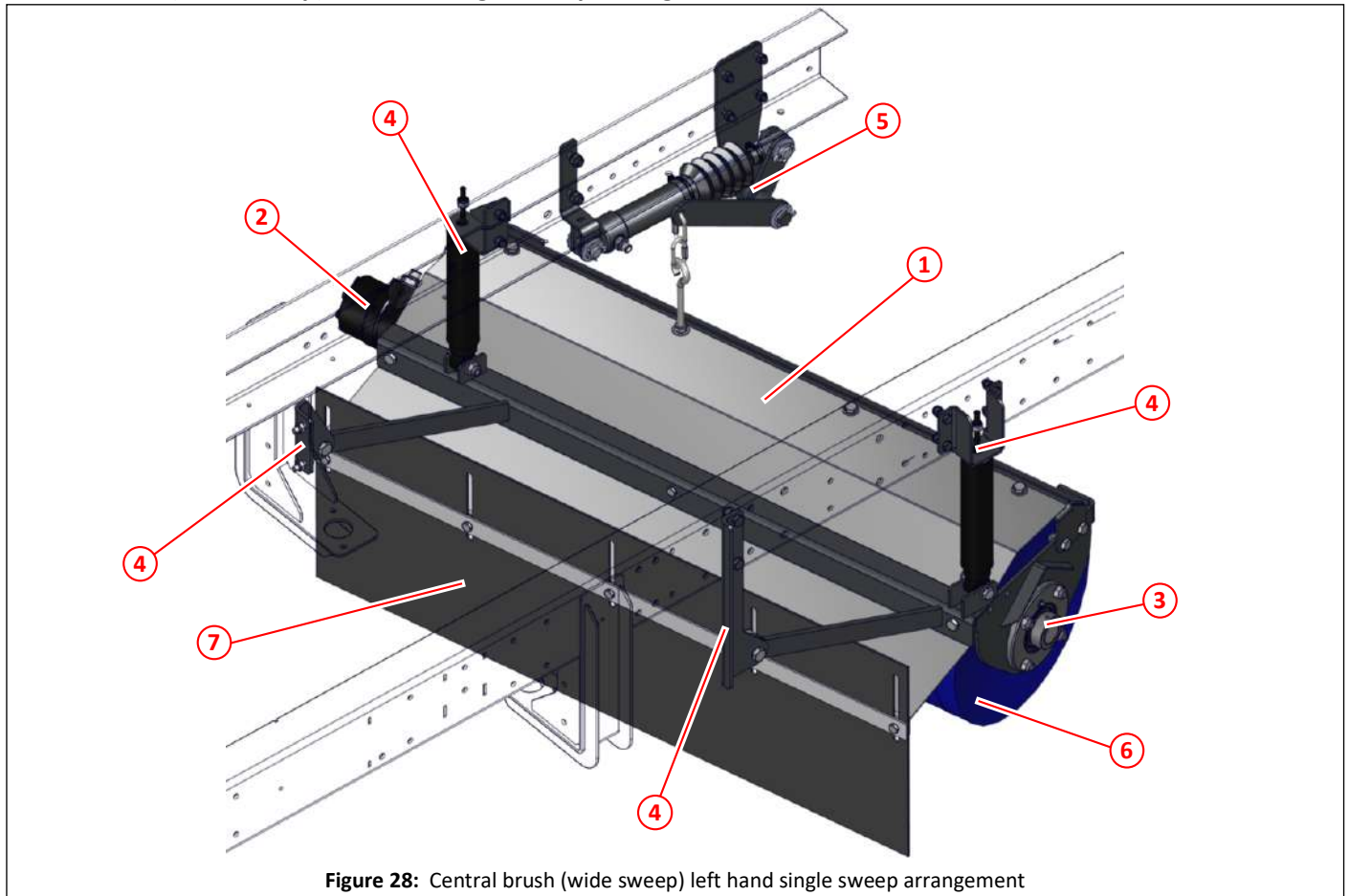
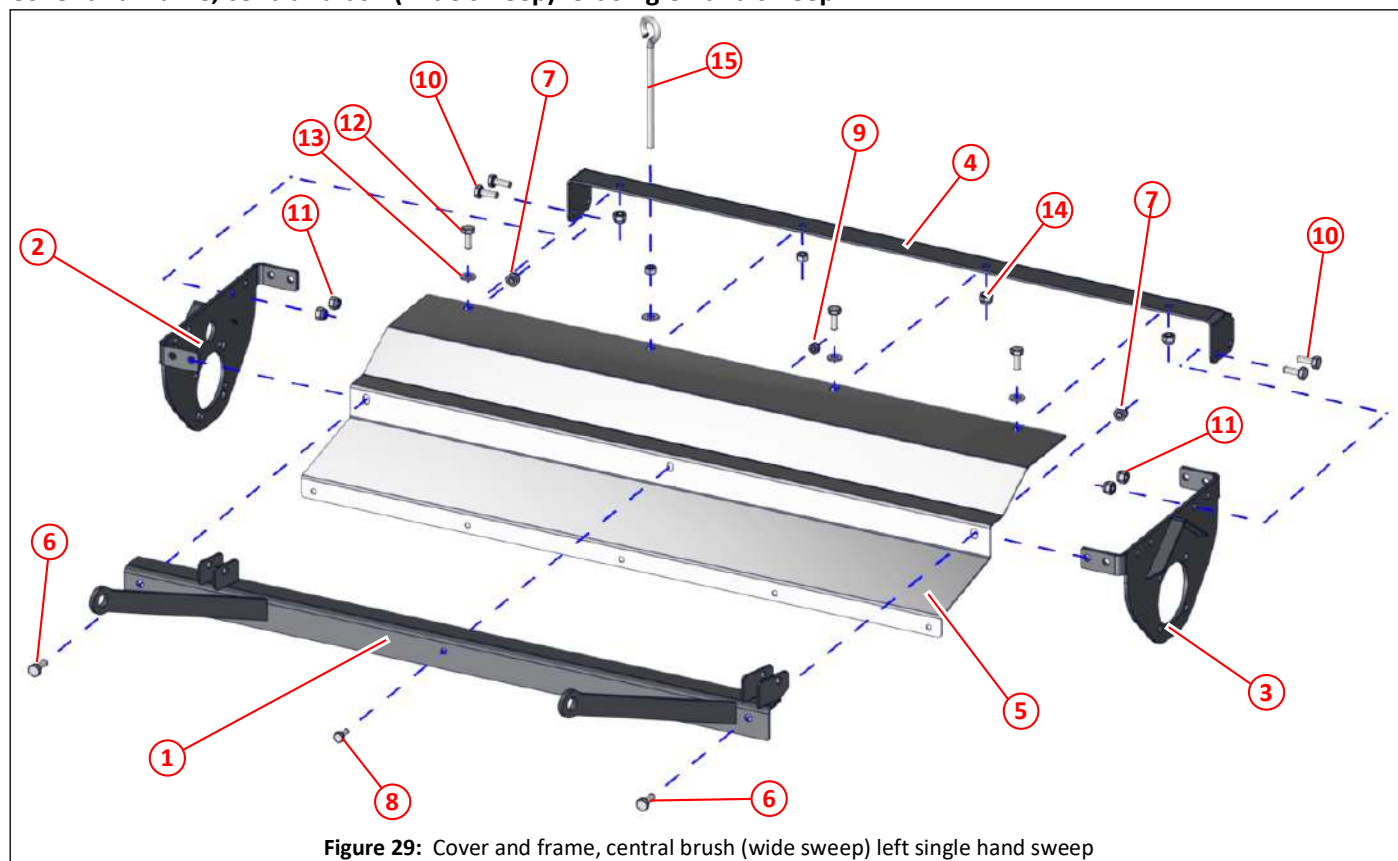


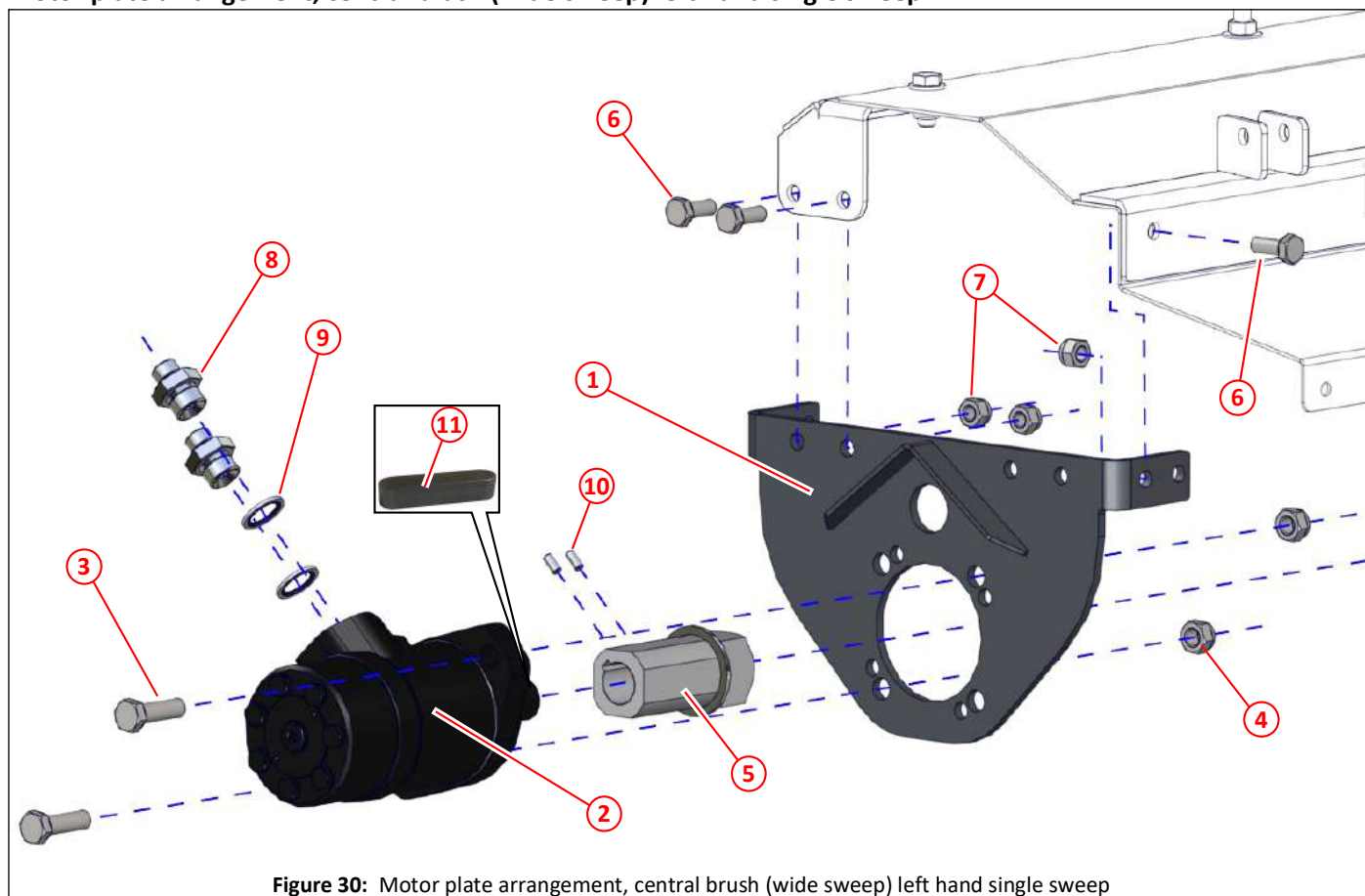
Figure 28: Central brush (wide sweep) left hand single sweep arrangement

Item	Part No	Qty	Description	
①			Cover and frame	50
②			Motor plate arrangement	51
③			Bearing plate arrangement	52
④			Mountings	53
⑤			Lift arrangement	54
⑥			Brush arrangement	61
⑦			Skirt arrangement	62

Cover and frame, central brush (wide sweep) left single hand sweep



Item	Part No	Qty	Description	
①	041530	1	Central brush (wide sweep) hanger left hand sweep	
②	037733	1	Motor plate central brush (wide sweep)	51
③	037734	1	Bearing plate central brush (wide sweep)	52
④	041531	1	Central brush (wide sweep) link bar	
⑤	041529	1	Central brush (wide sweep) cover single sweep	
⑥	011031	2	Set screw M10 x 25	
⑦	011075	2	M10 Nyloc nut	
⑧	011010	1	Set screw M8 x 20	
⑨	011073	1	M8 Nyloc nut	
⑩	011031	4	Set screw M10 x 25	
⑪	011075	4	M10 Nyloc nut	
⑫	011031	3	Set screw M10 x 25	
⑬	011094	3	Plain washer M 10	
⑭	011075	3	M10 Nyloc nut	
⑮	010248	1	Tensioner includes nuts and washers	

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

Figure 30: Motor plate arrangement, central brush (wide sweep) left hand single sweep

Item	Part No	Qty	Description	
①	037733	1	Motor plate central brush (wide sweep)	50
②	010749	1	Motor (OMP 200)	204
③	011069	2	Bolt M12 x 40	
④	011077	2	M12 Nyloc nut	
⑤	013648	1	Brush drive shaft	
⑥	011031	3	Set screw M10 x 25	
⑦	011075	3	M10 Nyloc nut	
⑧	011167	2	Adapter $\frac{1}{2}$ " x $\frac{3}{8}$ " BSP	
⑨	011154	2	Dowty seal $\frac{1}{2}$ " BSP	
⑩	011112	2	Grub screws	
⑪	011515	1	Key for item ②	

Bearing plate arrangement, central brush (wide sweep) left hand single sweep

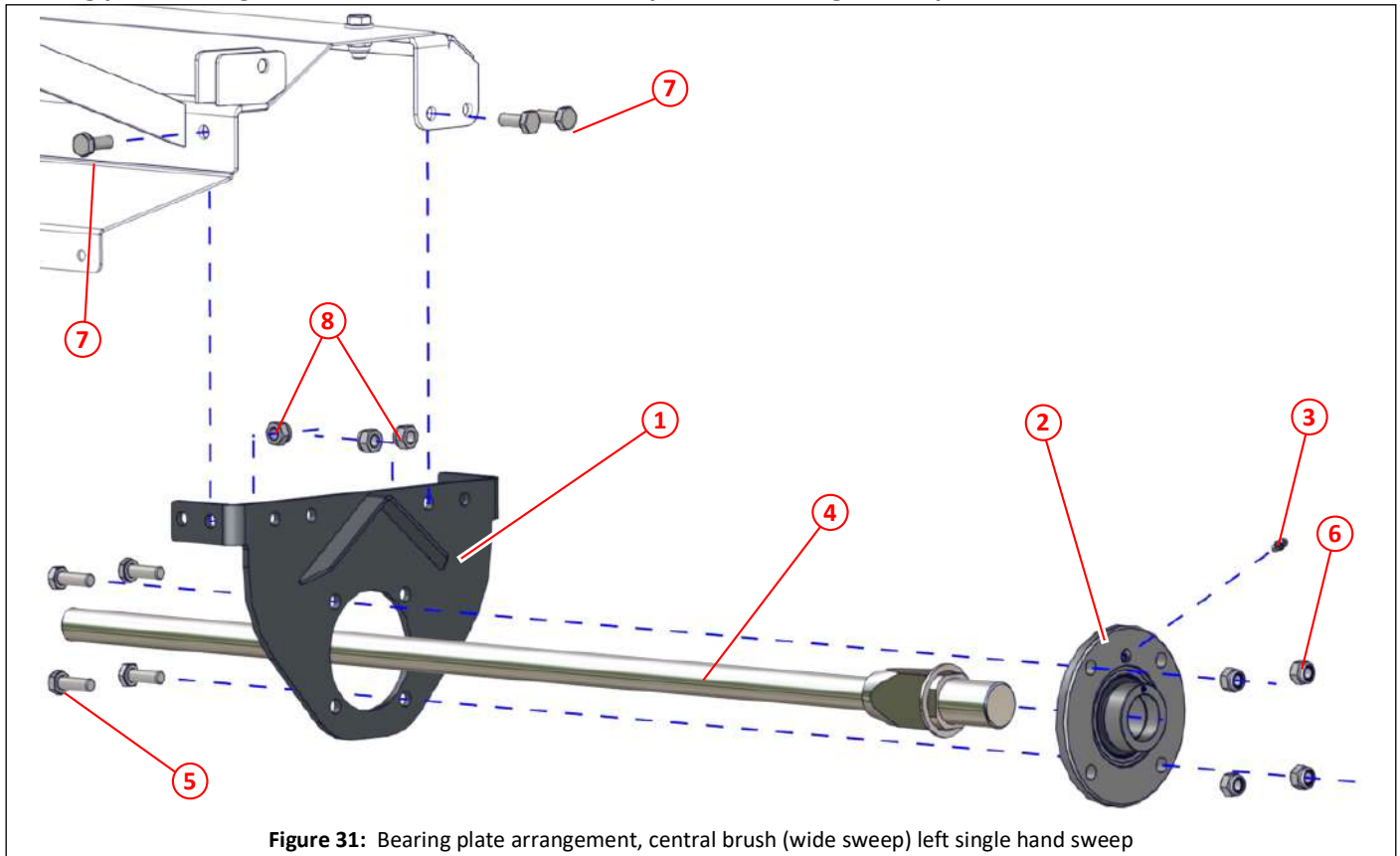


Figure 31: Bearing plate arrangement, central brush (wide sweep) left single hand sweep

Item	Part No	Qty	Description	
①	037734	1	Bearing plate central brush (wide sweep)	50
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	
⑤	011032	4	Set screw M10 x 30	
⑥	011075	1	M10 Nyloc nut	
⑦	011031	3	Set screw M10 x 25	
⑧	011075	3	M10 Nyloc nut	

Mountings, central brush (wide sweep) left hand single sweep

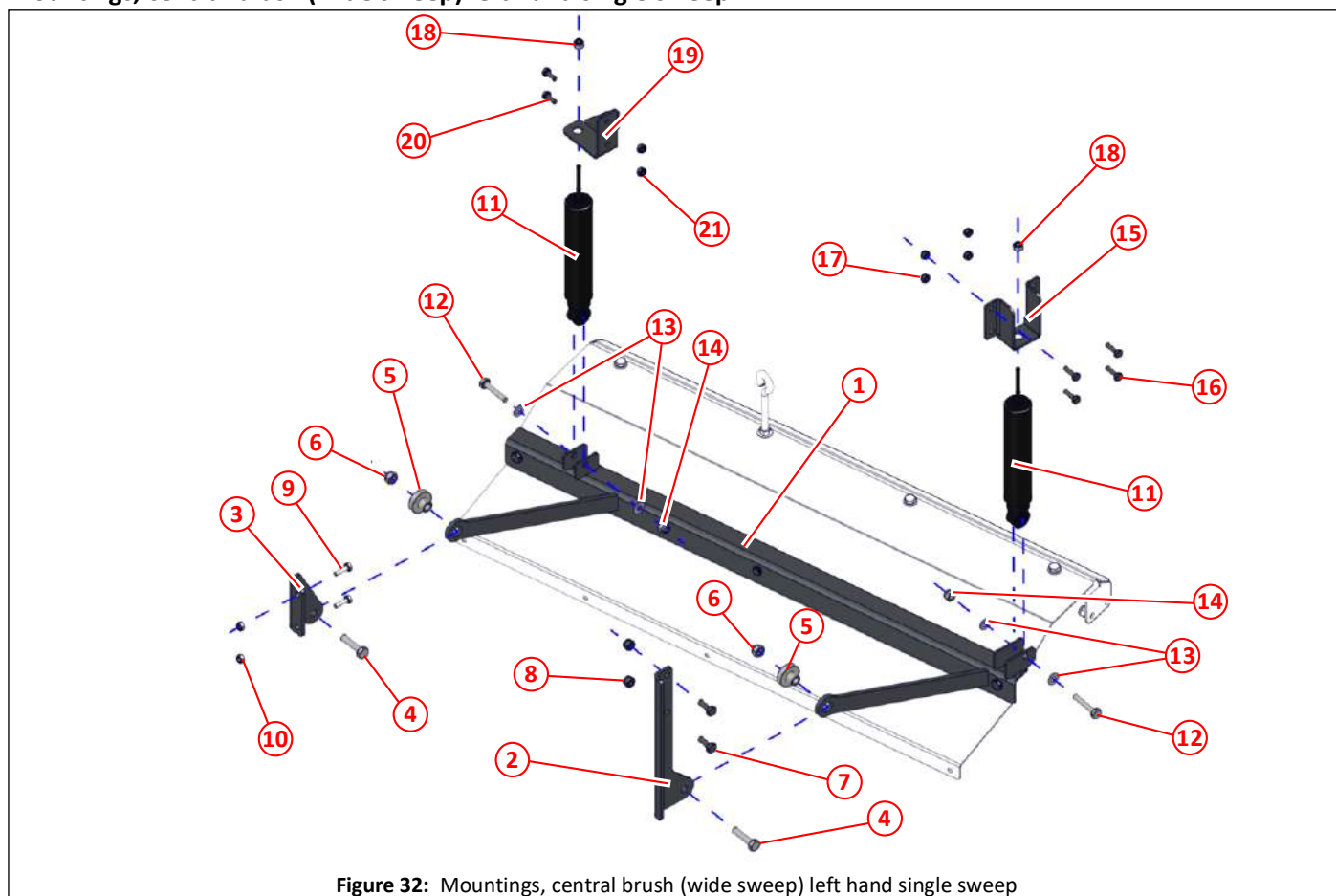


Figure 32: Mountings, central brush (wide sweep) left hand single sweep

Item	Part No	Qty	Description	
①	041530	1	Central brush (wide sweep) hanger left hand sweep	50
②	041522	1	Central brush (wide sweep) chassis bracket left hand/left hand sweep	
③	041523	1	Central brush (wide sweep) chassis bracket right hand/left hand sweep	
④	011054	2	Set screw M12 x 45	
⑤	010689	2	Link bush	
⑥	011077	2	M12 Nyloc nut	
⑦	011031	2	Set screw M10 x 25	
⑧	011075	2	M10 Nyloc nut	
⑨	011011	2	Set screw M8 x 25	
⑩	011073	2	M8 Nyloc nut	
⑪	012524	2	Shock absorber	
⑫	011035	2	Set screw M10 x 50	
⑬	011094	4	Plain washer M10	
⑭	011075	2	M10 Nyloc nut	
⑮	041524	1	Central brush (wide sweep) suspension bracket	
⑯	011011	4	Set screw M8 x 25	
⑰	011073	4	M8 Nyloc nut	
⑱	000443	2	Nut $\frac{3}{8}$ " UNC type 'P' Nyloc	
⑲	041525	1	Central brush (wide sweep) suspension bracket	
⑳	011010	2	Set screw M8 x 20	
㉑	011073	2	M8 Nyloc nut	

Lift arrangement, central brush (wide sweep) left hand single sweep

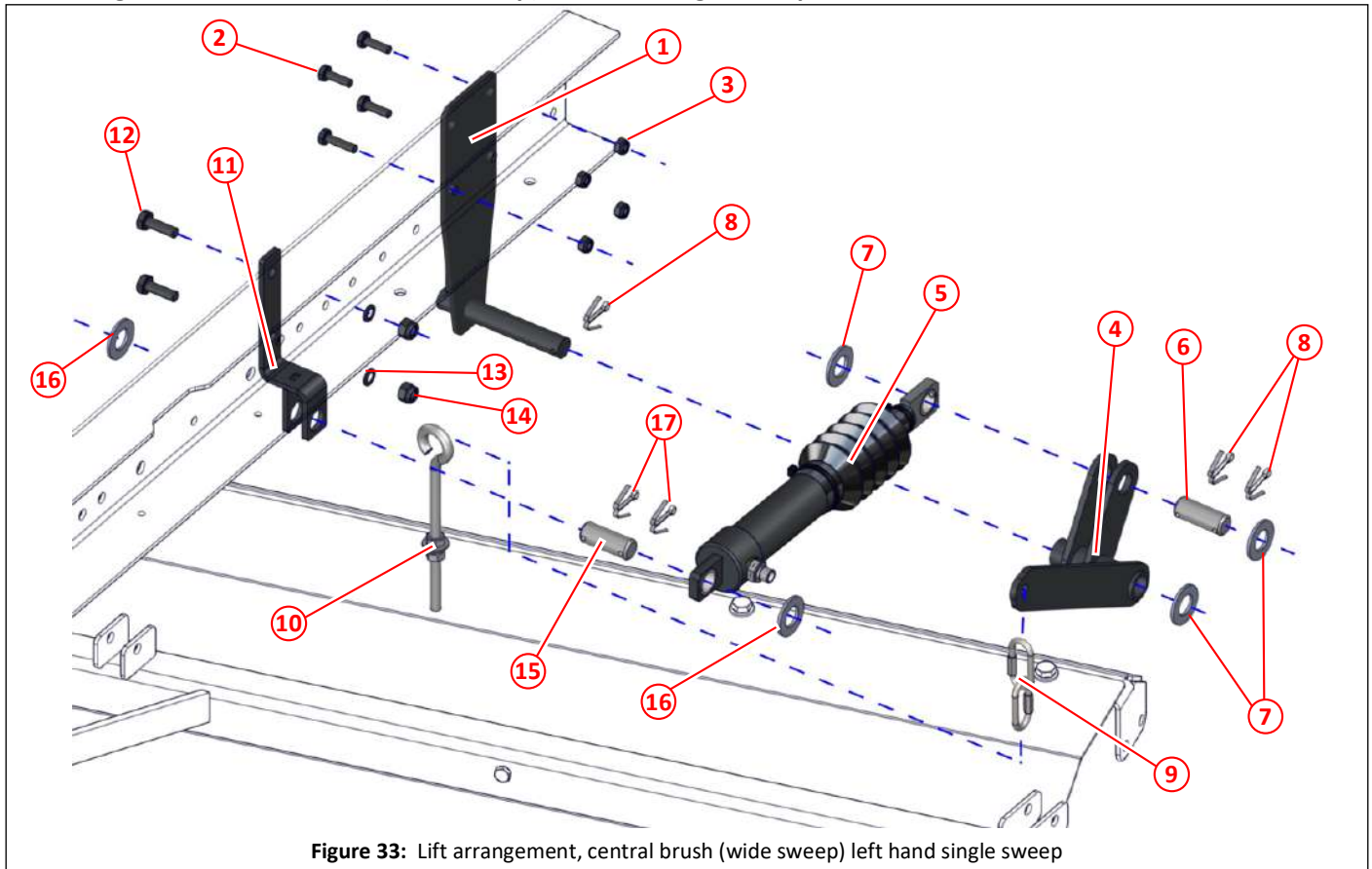


Figure 33: Lift arrangement, central brush (wide sweep) left hand single sweep

Item	Part No	Qty	Description	
①	013853	1	Bracket central brush (wide sweep) lift	
②	011011	4	Set screw M8 x 25	
③	011073	4	M8 Nyloc nut	
④	013854	1	Brush link left hand	
⑤	027115	1	Ram No 2 240/340	209
⑥	010067	1	Pin 20 x 50	
⑦	011102	3	Plain washer M20	
⑧	011122	3	Split pin $\frac{3}{16}$ " x $1\frac{1}{2}$ "	
⑨	010606	2	Carabiner	
⑩	010248	1	Tensioner includes nuts and washers	
⑪	041927	1	Central brush (wide sweep) ram bracket	
⑫	011032	2	Set screw M10 x 30	
⑬	036454	2	Schnorr safety washer type VS10	
⑭	011075	2	M10 Nyloc nut	
⑮	010067	1	Pin 20 x 50	
⑯	011102	2	Plain washer M20	
⑰	011122	2	Split pin $\frac{3}{16}$ " x $1\frac{1}{2}$ "	

Central brush (wide sweep) right hand single sweep arrangement

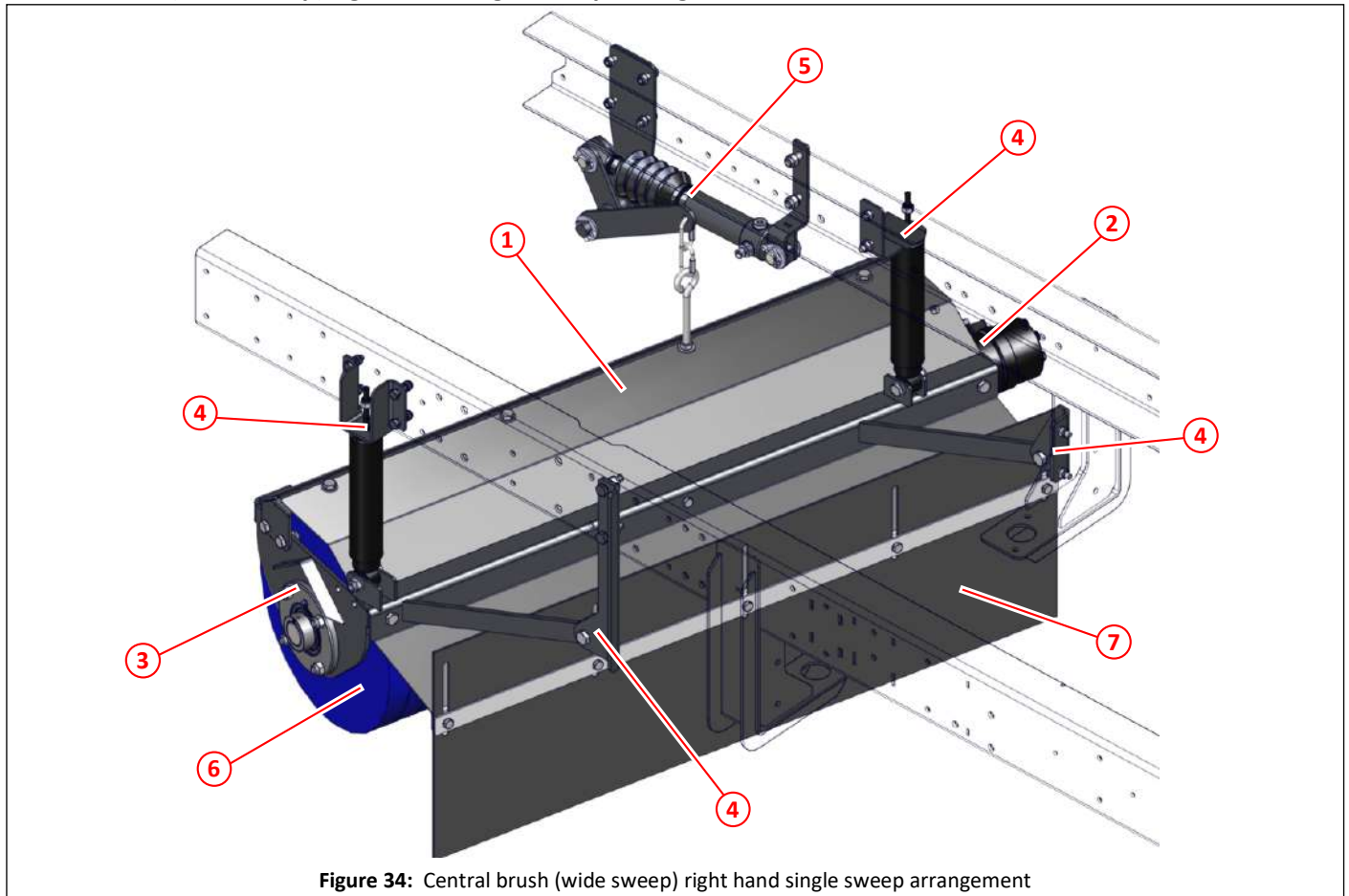
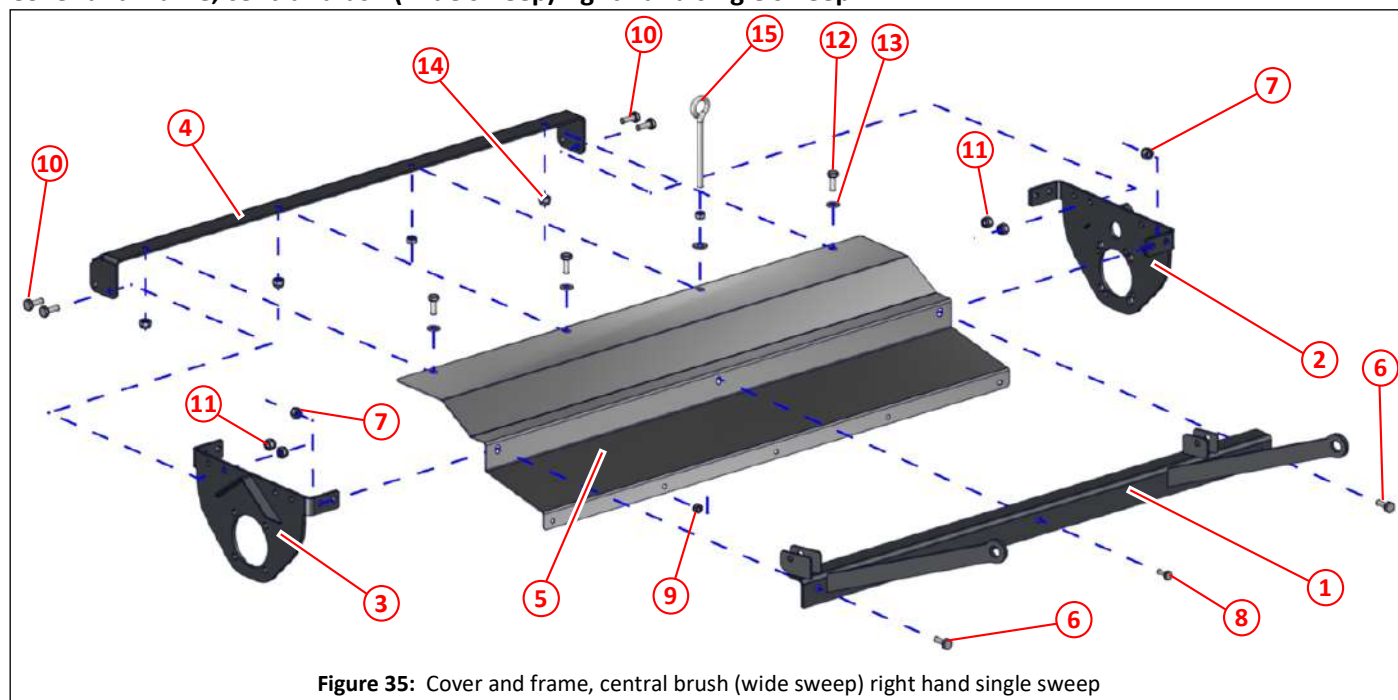


Figure 34: Central brush (wide sweep) right hand single sweep arrangement

Item	Part No	Qty	Description	
①			Cover and frame	56
②			Motor plate arrangement	57
③			Bearing plate arrangement	58
④			Mountings	59
⑤			Lift arrangement	60
⑥			Brush arrangement	61
⑦			Skirt arrangement	62

Cover and frame, central brush (wide sweep) right hand single sweep



Item	Part No	Qty	Description	
①	041530	1	Central brush (wide sweep) hanger right hand sweep	
②	037733	1	Motor plate central brush (wide sweep)	57
③	037734	1	Bearing plate central brush (wide sweep)	58
④	041531	1	Central brush (wide sweep) link bar	
⑤	041529	1	Central brush (wide sweep) cover single sweep	
⑥	011031	2	Set screw M10 x 25	
⑦	011075	2	M10 Nyloc nut	
⑧	011010	1	Set screw M8 x 20	
⑨	011073	1	M8 Nyloc nut	
⑩	011031	4	Set screw M10 x 25	
⑪	011075	4	M10 Nyloc nut	
⑫	011031	3	Set screw M10 x 25	
⑬	011094	3	Plain washer M10	
⑭	011075	3	M10 Nyloc nut	
⑮	010248	1	Tensioner includes nuts and washers	

Motor plate arrangement, central brush (wide sweep) right hand single sweep

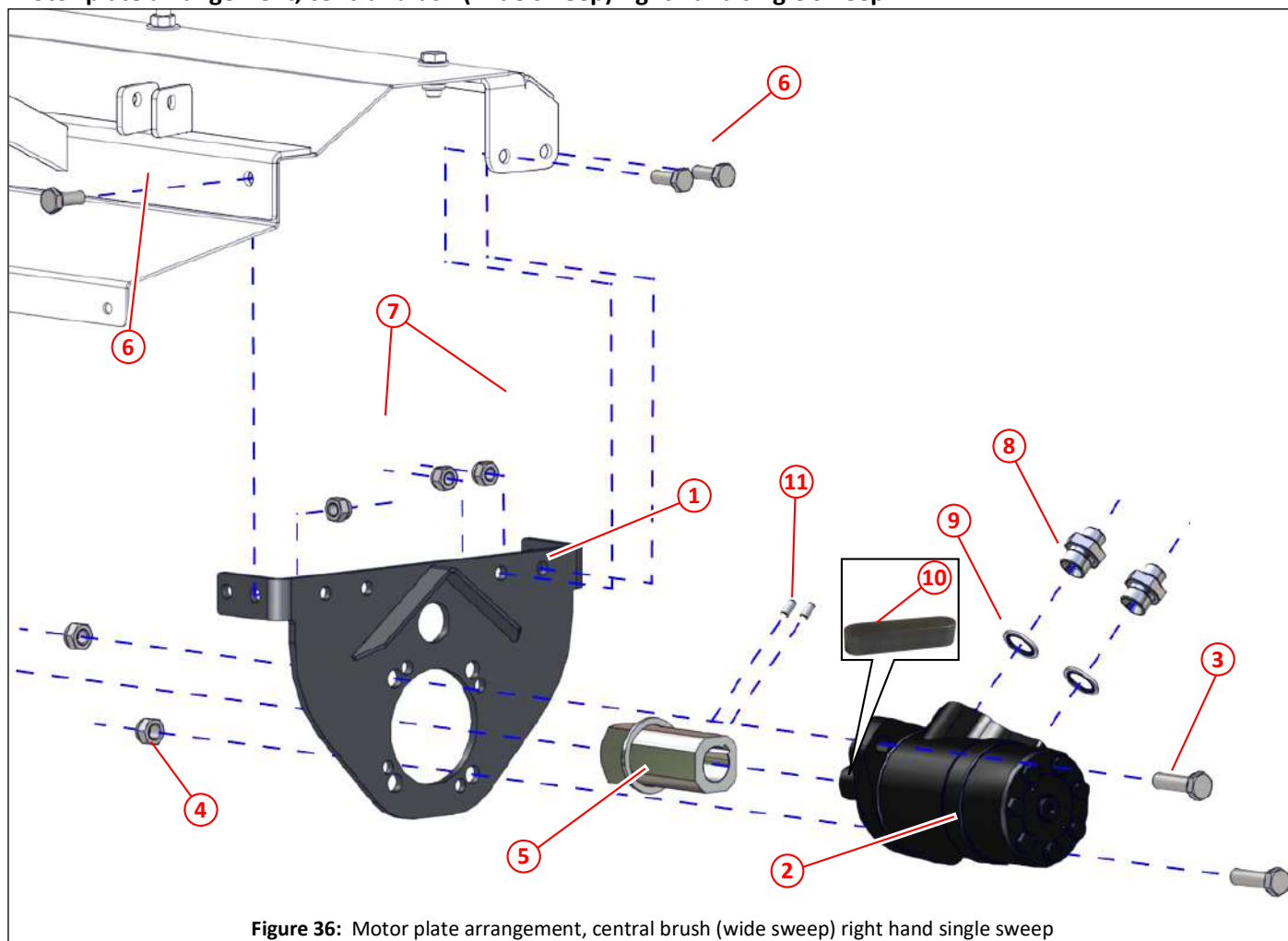
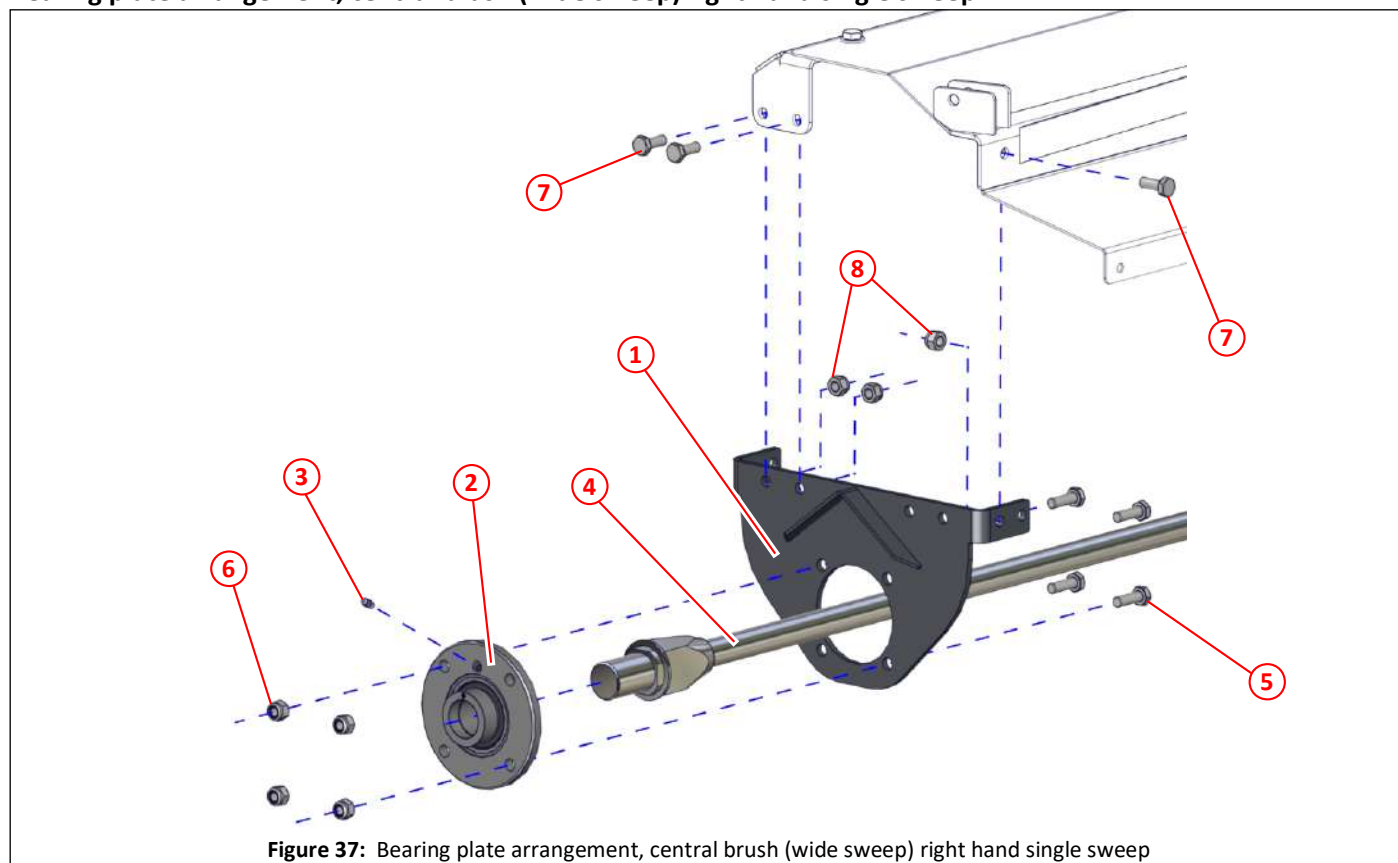


Figure 36: Motor plate arrangement, central brush (wide sweep) right hand single sweep

Item	Part No	Qty	Description	
①	037733	1	Motor plate central brush (wide sweep)	56
②	010749	1	Motor (OMP 200)	204
③	011069	2	Bolt M12 x 40	
④	011077	2	M12 Nyloc nut	
⑤	013648	1	Brush drive shaft	
⑥	011031	3	Set screw M10 x 25	
⑦	011075	3	M10 Nyloc nut	
⑧	011167	2	Adapter $\frac{1}{2}$ " x $\frac{3}{8}$ " BSP	
⑨	011154	2	Dowty seal $\frac{1}{2}$ " BSP	
⑩	011515	1	Key for item ②	
⑪	011112	2	Grub screw	

Bearing plate arrangement, central brush (wide sweep) right hand single sweep



Item	Part No	Qty	Description	
①	037734	1	Bearing plate central brush (wide sweep)	56
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	61
⑤	011032	4	Set screw M10 x 30	
⑥	011075	1	M10 Nyloc nut	
⑦	011031	3	Set screw M10 x 25	
⑧	011075	3	M10 Nyloc nut	

Mountings, central brush (wide sweep) right hand single sweep

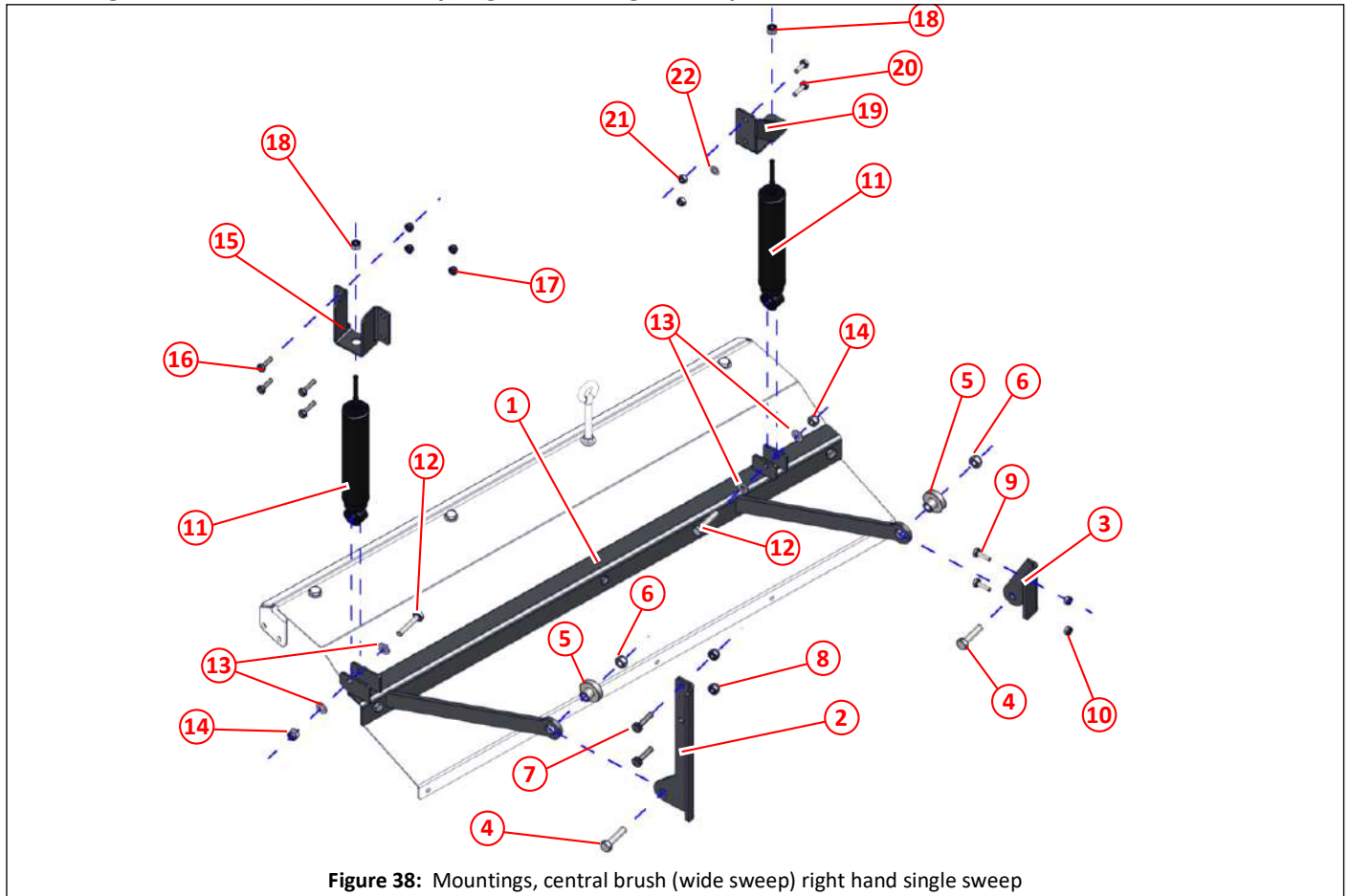


Figure 38: Mountings, central brush (wide sweep) right hand single sweep

Item	Part No	Qty	Description	
①	043109	1	Central brush (wide sweep) hanger right hand sweep	56
②	043121	1	Central brush (wide sweep) chassis bracket right hand/right hand sweep	
③	043120	1	Central brush (wide sweep) chassis bracket left hand/right hand sweep	
④	011054	2	Set screw M12 x 45	
⑤	010689	2	Link bush	
⑥	011077	2	M12 Nyloc nut	
⑦	011031	2	Set screw M10 x 25	
⑧	011075	2	M10 Nyloc nut	
⑨	011011	2	Set screw M8 x 25	
⑩	011073	2	M8 Nyloc nut	
⑪	012524	2	Shock absorber	
⑫	011035	2	Set screw M10 x 50	
⑬	011094	4	Plain washer M10	
⑭	011075	2	M10 Nyloc nut	
⑮	041524	1	Central brush (wide sweep) suspension bracket	
⑯	011011	4	Set screw M8 x 25	
⑰	011073	4	M8 Nyloc nut	
⑱	000443	2	Nut $\frac{3}{8}$ " UNC type 'P' Nyloc	
⑲	041525	1	Central brush (wide sweep) suspension bracket	
⑳	011010	2	Set screw M8 x 20	
㉑	011073	2	M8 Nyloc nut	
㉒	011092	1	Plain Washer M8	

Lift arrangement, central brush (wide sweep) right hand single sweep

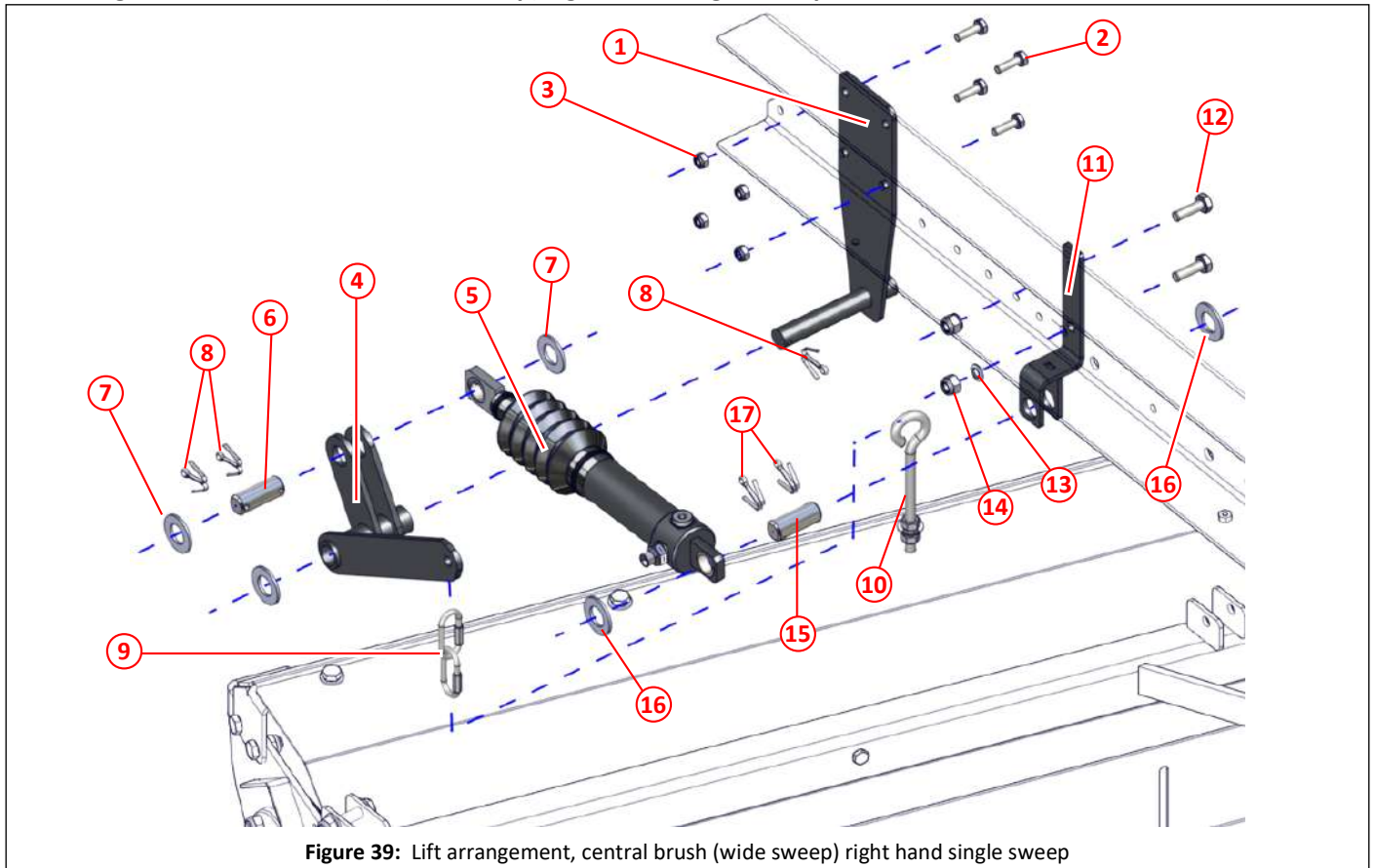
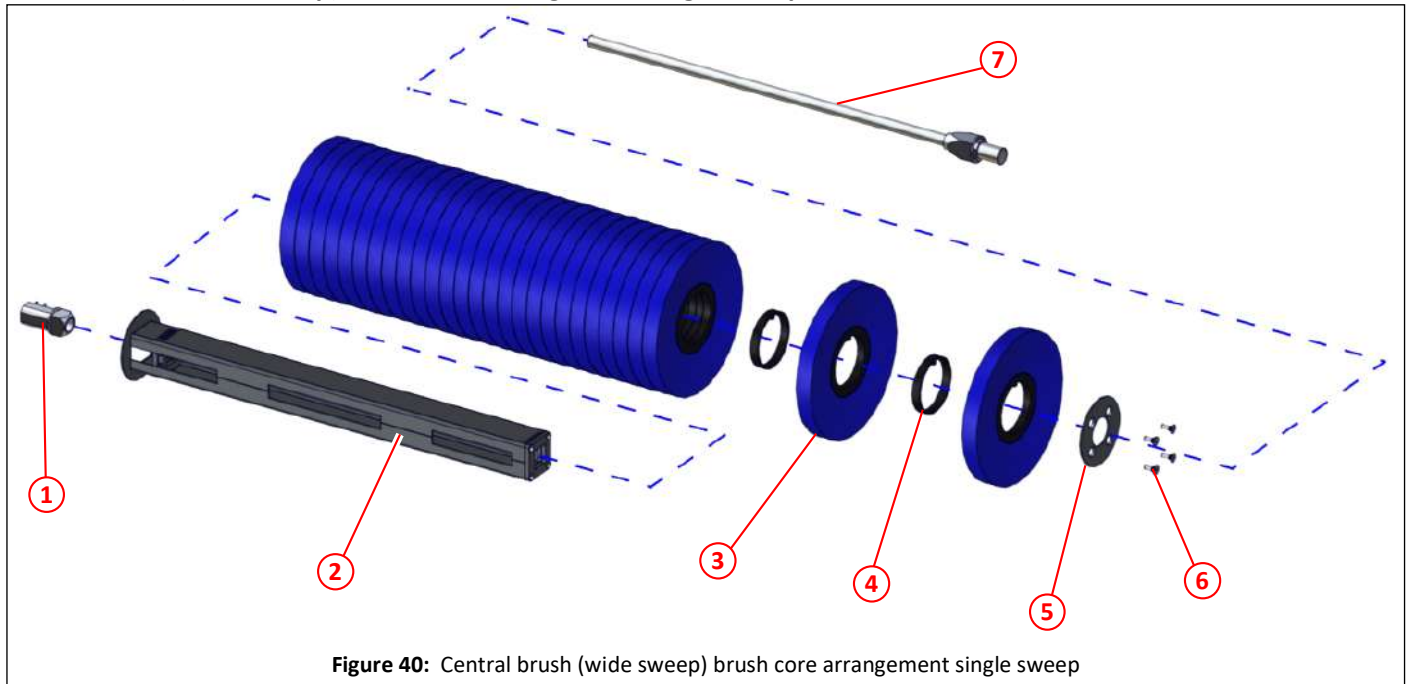


Figure 39: Lift arrangement, central brush (wide sweep) right hand single sweep

Item	Part No	Qty	Description	
①	013853	1	Bracket central brush (wide sweep) lift	
②	011011	4	Set screw M8 x 25	
③	011073	4	M8 Nyloc nut	
④	014231	1	Brush link right hand	
⑤	027115	1	Ram No 2 240/340	209
⑥	010067	1	Pin 20 x 50	
⑦	011102	3	Plain washer M20	
⑧	011122	3	Split pin $\frac{3}{16}$ " x $1\frac{1}{2}$ "	
⑨	010606	2	Carabiner	
⑩	010248	1	Tensioner includes nuts and washers	
⑪	041927	1	Central brush (wide sweep) ram bracket	
⑫	011032	2	Set screw M10 x 30	
⑬	036454	1	Schnorr safety washer type VS10	
⑭	011075	2	M10 Nyloc nut	
⑮	010067	1	Pin 20 x 50	
⑯	011102	2	Plain washer M20	
⑰	011122	2	Split pin $\frac{3}{16}$ " x $1\frac{1}{2}$ "	

Central brush (wide sweep) brush core arrangement single sweep

Figure 40: Central brush (wide sweep) brush core arrangement single sweep

Item	Part No	Qty	Description	
①	013648	1	Brush drive shaft	51,57
②	041526	1	Central brush (wide sweep) brush core single sweep	
③	023471	28	Brush fill element ø320 poly	
④	023472	27	Brush spacer, central brush (wide sweep)	
⑤	013649	1	End plate, brush core	
⑥	011417	4	Socket cap screw $\frac{3}{8}$ " UNC x 1"	
⑦	041527	1	Central brush (wide sweep) drive tube single sweep	52,58
	041554	1	Central brush (wide sweep) brush core assembly - Items ②, ③, ④, ⑤ and ⑥	

Central brush (wide sweep) skirt single sweep

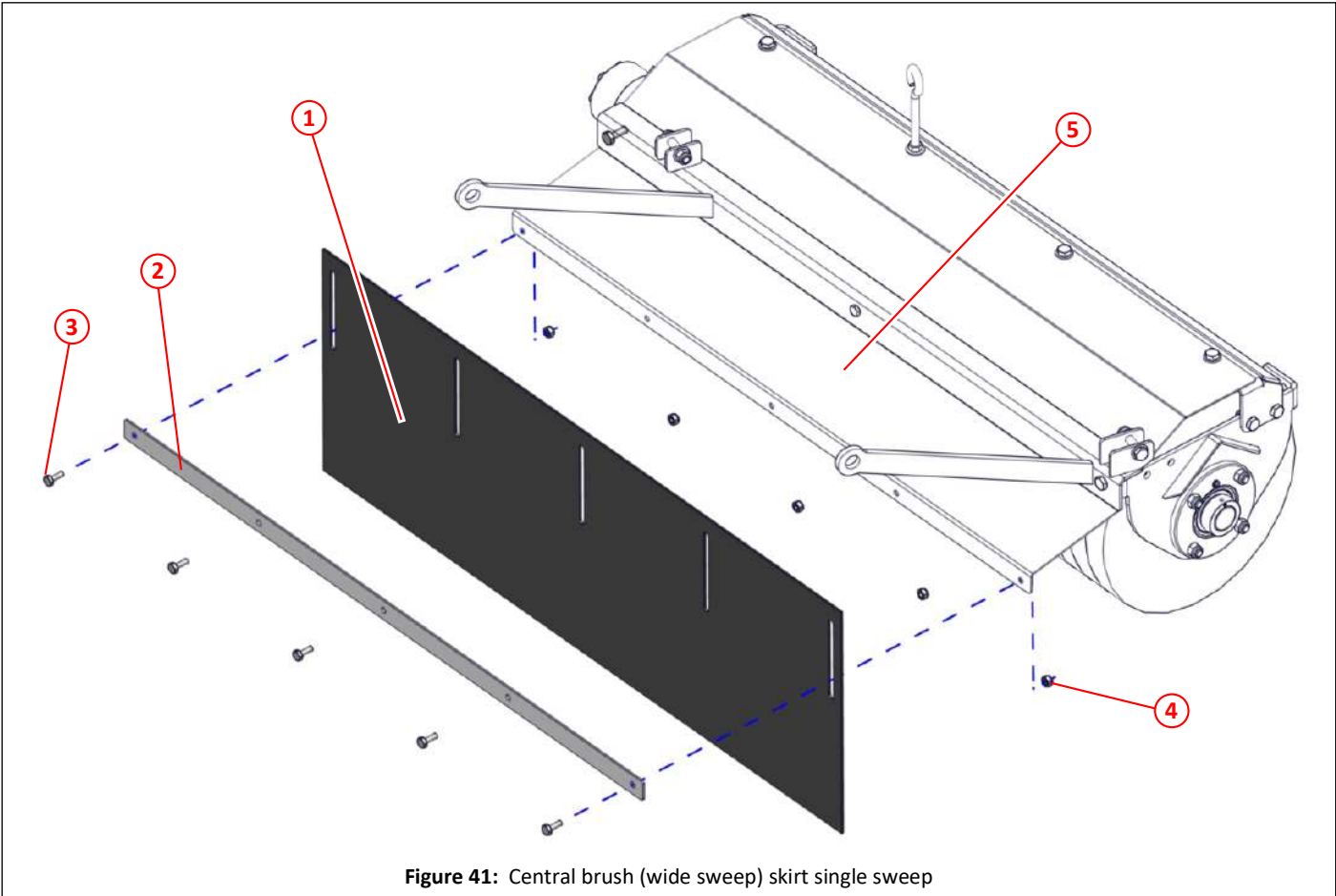


Figure 41: Central brush (wide sweep) skirt single sweep

Item	Part No	Qty	Description	
①	041532	1	Central brush (wide sweep) skirt single sweep	
②	041533	1	Central brush (wide sweep) skirt clamp single sweep	
③	011010	5	Set screw M8 x 20	
④	011073	5	M8 Nyloc nut	
⑤	041529	1	Central brush (wide sweep) cover single sweep,	50,56

Central brush (wide sweep) left hand dual sweep arrangement

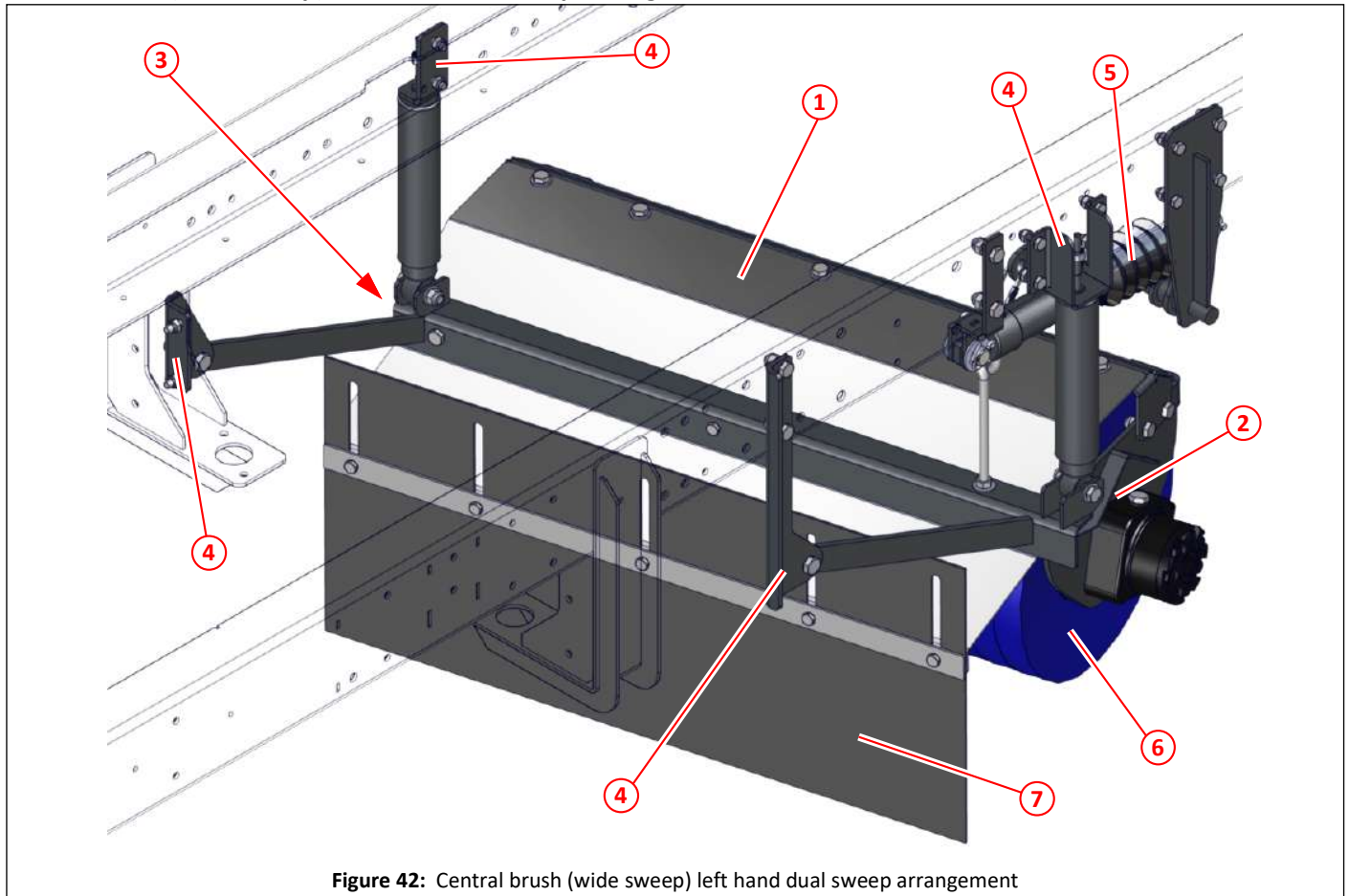


Figure 42: Central brush (wide sweep) left hand dual sweep arrangement

Item	Part No	Qty	Description	
①			Cover and frame	64
②			Motor plate arrangement	65
③			Bearing plate arrangement	66
④			Mountings	67
⑤			Lift arrangement	68
⑥			Brush arrangement	75
⑦			Skirt arrangement	76

Cover and frame, central brush (wide sweep) left hand dual sweep

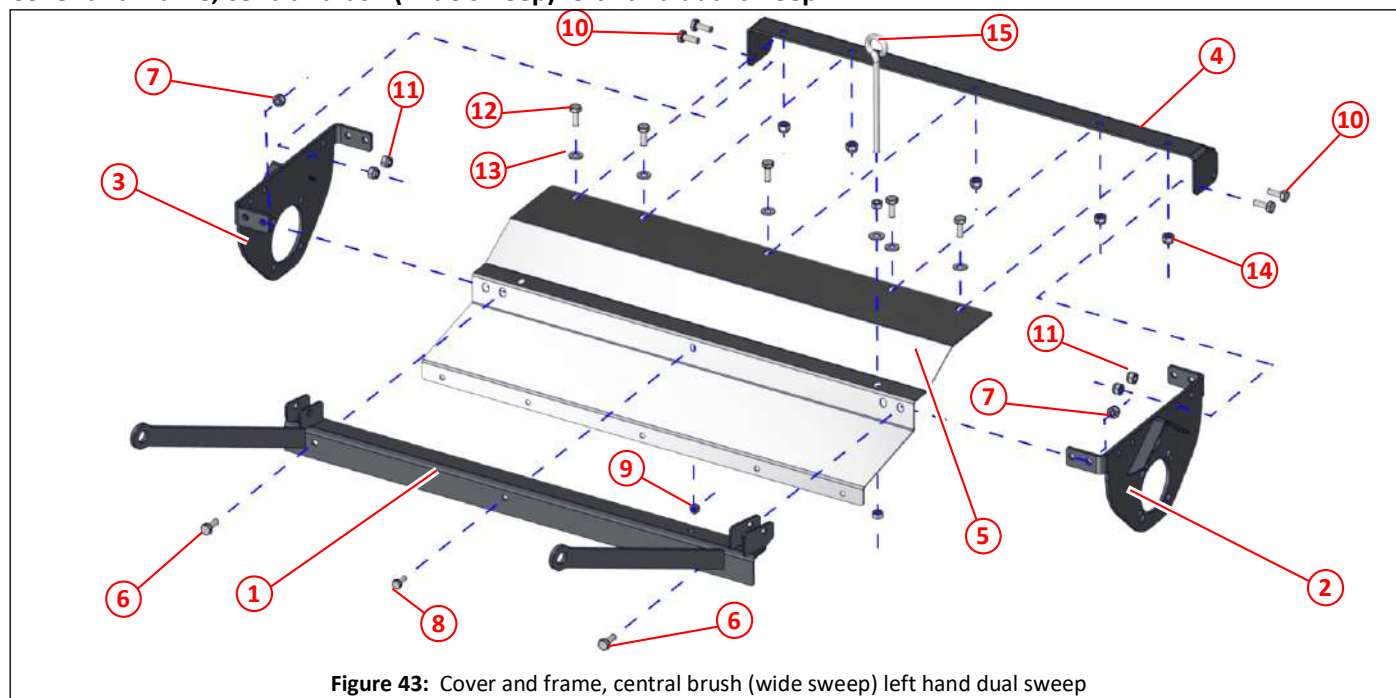


Figure 43: Cover and frame, central brush (wide sweep) left hand dual sweep

Item	Part No	Qty	Description	
①	042700	1	Central brush (wide sweep) hanger left hand dual sweep	
②	037733	1	Motor plate central brush (wide sweep)	65
③	037734	1	Bearing plate central brush (wide sweep)	66
④	042701	1	Central brush (wide sweep) link bar dual sweep	
⑤	042699	1	Central brush (wide sweep) cover dual sweep	76
⑥	011031	2	Set screw M10 x 25	
⑦	011075	2	M10 Nyloc nut	
⑧	011010	1	Set screw M8 x 20	
⑨	011073	1	M8 Nyloc nut	
⑩	011031	4	Set screw M10 x 25	
⑪	011075	4	M10 Nyloc nut	
⑫	011031	5	Set screw M10 x 25	
⑬	011094	5	Plain washer M 10	
⑭	011075	5	M10 Nyloc nut	
⑮	010248	1	Tensioner includes nuts and washers	

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

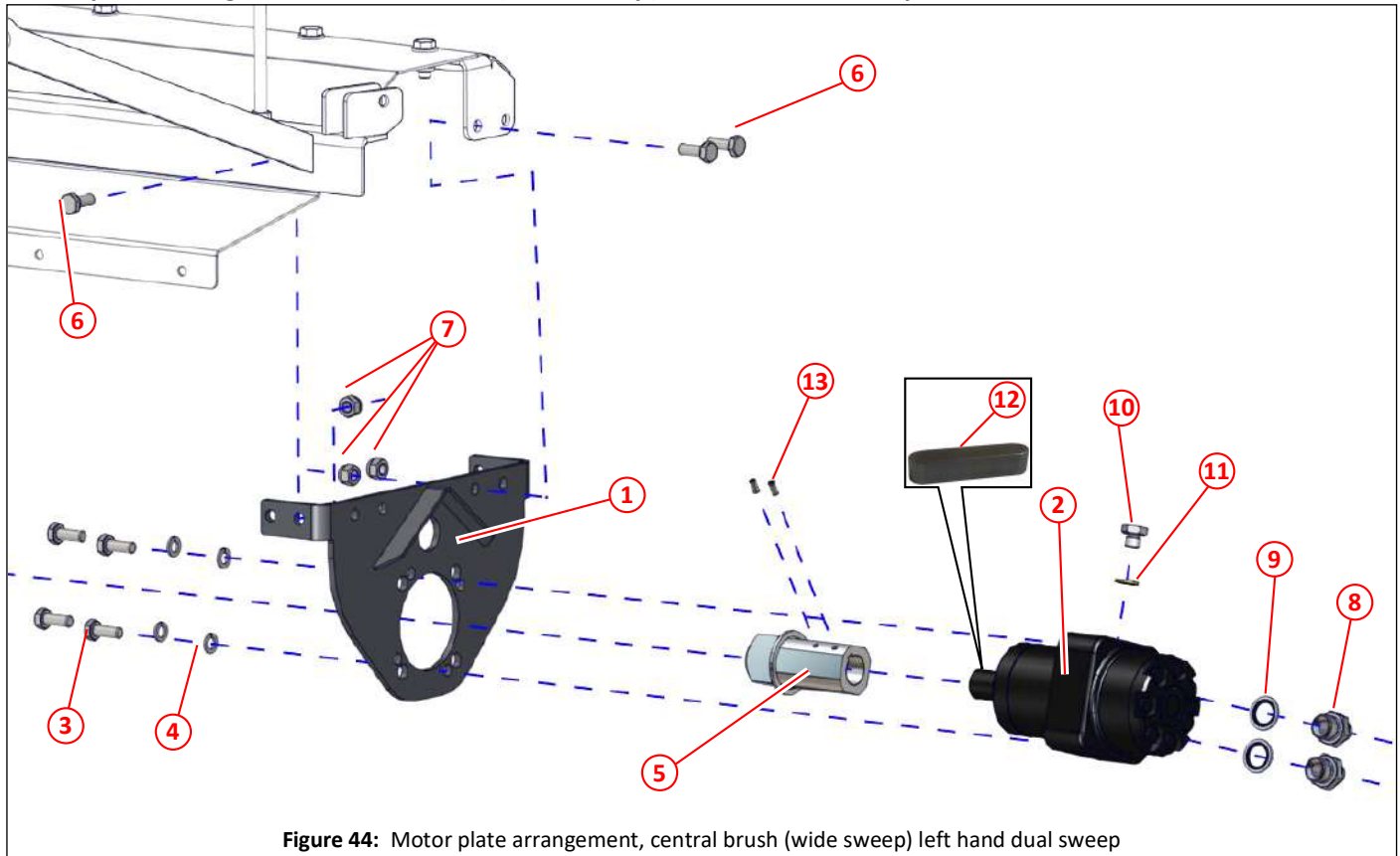
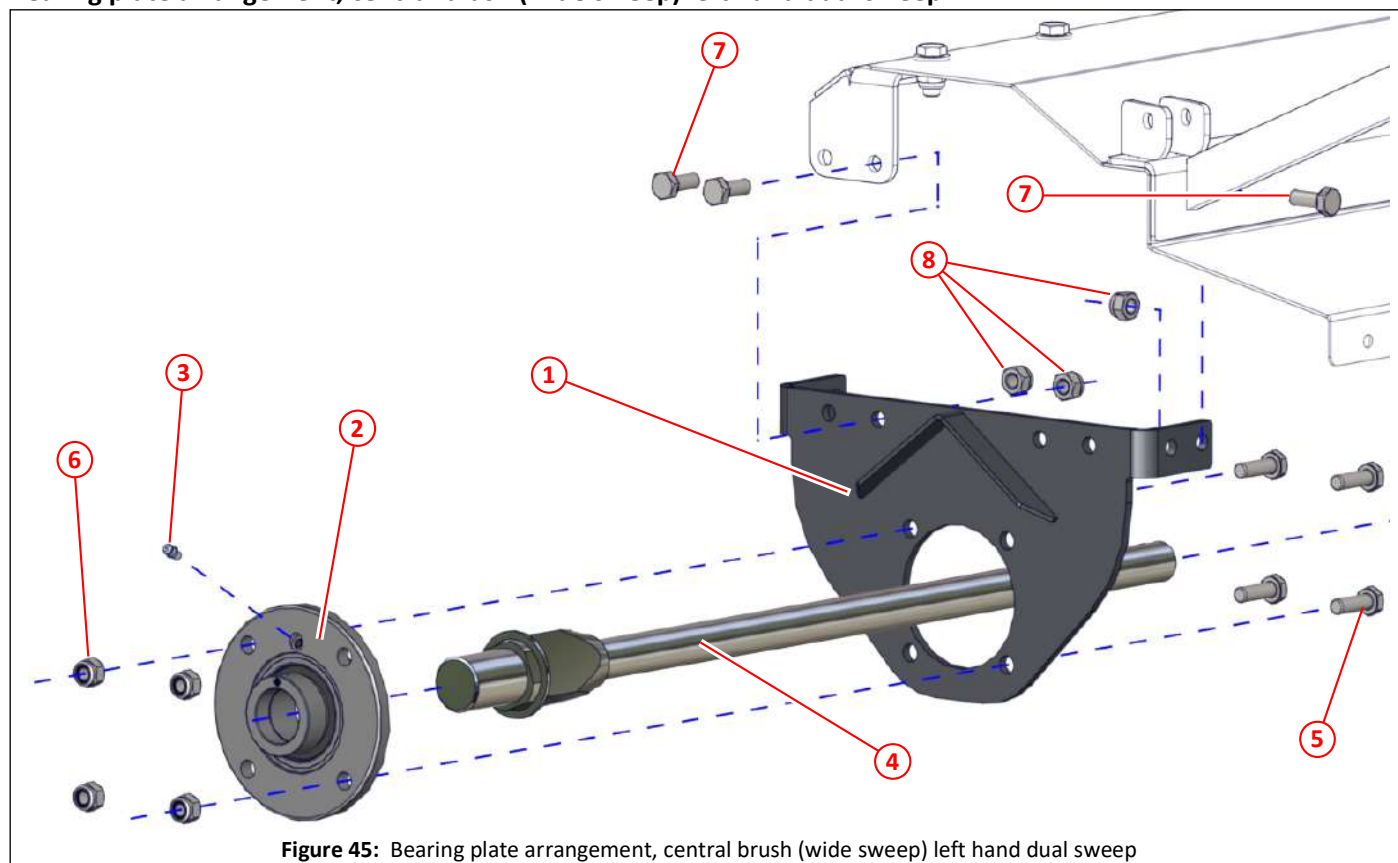


Figure 44: Motor plate arrangement, central brush (wide sweep) left hand dual sweep

Item	Part No	Qty	Description	
①	037733	1	Motor plate central brush (wide sweep)	64
②	023503	1	Motor (OMPW 200)	204
③	011031	4	Set screw M10 x 25	
④	011095	2	Spring washer M10	
⑤	013648	1	Brush drive shaft	
⑥	011031	3	Set screw M10 x 25	
⑦	011075	3	M10 Nyloc nut	
⑧	011167	2	Adapter $\frac{1}{2}$ " x $\frac{3}{8}$ " BSP	
⑨	011154	2	Dowty seal $\frac{1}{2}$ " BSP	
⑩	011241	1	Plug $\frac{1}{4}$ " BSP	
⑪	011152	1	Dowty seal $\frac{1}{4}$ " BSP	
⑫	011515	1	Key for item ②	
⑬	011112	2	Grub screw	

Bearing plate arrangement, central brush (wide sweep) left hand dual sweep



Item	Part No	Qty	Description	
①	037734	1	Bearing plate central brush (wide sweep)	64
②	038287	1	Central brush (wide sweep) bearing	
③	043059	1	Grease nipple M6 straight	
④	042705	1	Central brush (wide sweep) drive tube dual sweep	75
⑤	011032	4	Set screw M10 x 30	
⑥	011075	1	M10 Nyloc nut	
⑦	011031	3	Set screw M10 x 25	
⑧	011075	3	M10 Nyloc nut	

Mountings, central brush (wide sweep) left hand dual sweep

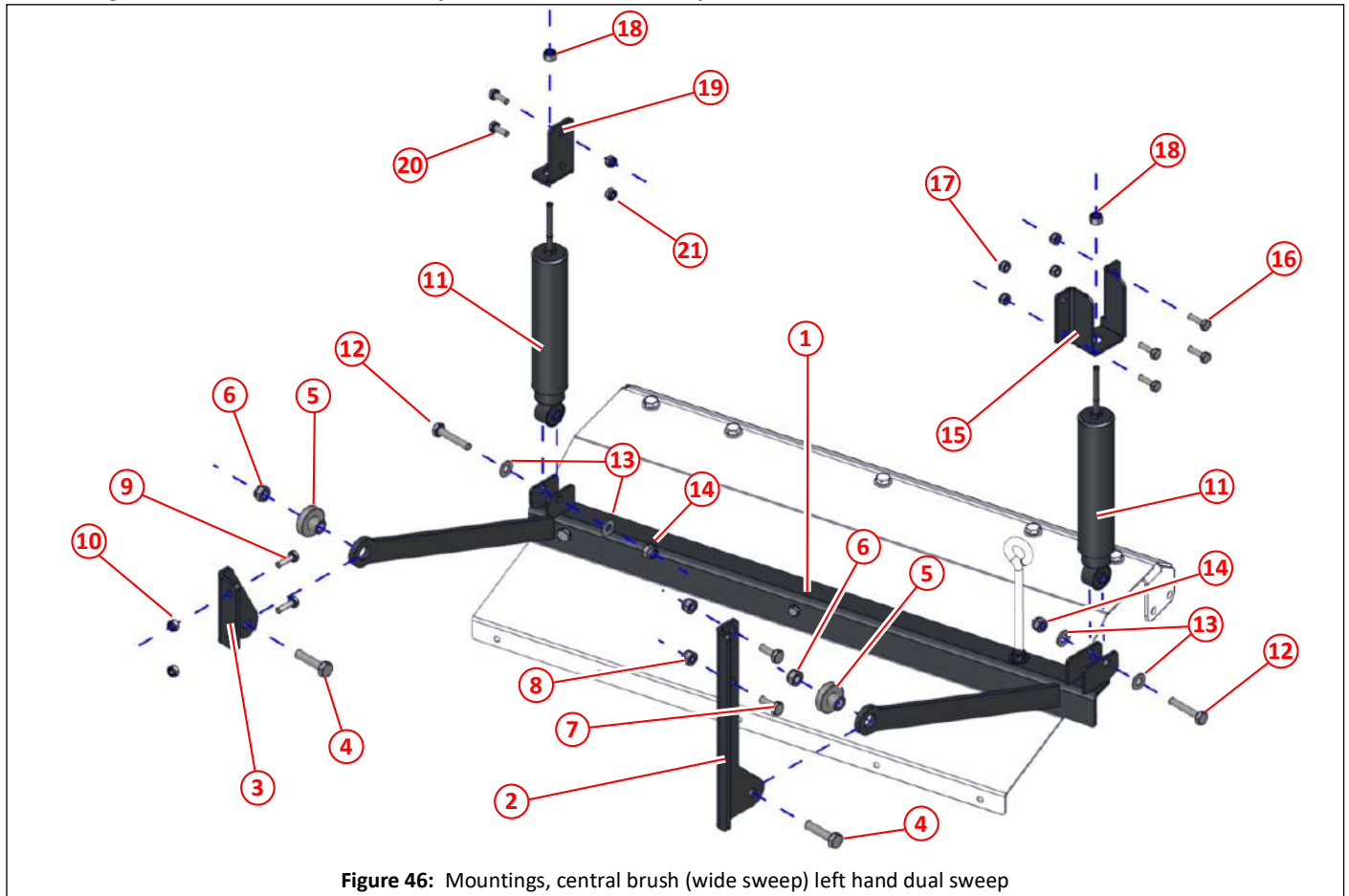


Figure 46: Mountings, central brush (wide sweep) left hand dual sweep

Item	Part No	Qty	Description	
①	042700	1	Central brush (wide sweep) hanger left hand dual sweep	64
②	041522	1	Central brush (wide sweep) chassis bracket	
③	041523	1	Central brush (wide sweep) chassis bracket	
④	011054	2	Set screw M12 x 45	
⑤	010689	2	Link bush	
⑥	011077	2	M12 Nyloc nut	
⑦	011031	2	Set screw M10 x 25	
⑧	011075	2	M10 Nyloc nut	
⑨	011011	2	Set screw M8 x 25	
⑩	011073	2	M8 Nyloc nut	
⑪	012524	2	Shock absorber	
⑫	011035	2	Set screw M10 x 50	
⑬	011094	4	Plain washer M10	
⑭	011075	2	M10 Nyloc nut	
⑮	041524	1	Central brush (wide sweep) suspension bracket	
⑯	011011	4	Set screw M8 x 25	
⑰	011073	4	M8 Nyloc nut	
⑱	000443	2	Nut $\frac{3}{8}$ " UNC type 'P' Nyloc	
⑲	043325	1	Central brush (wide sweep) suspension bracket	
⑳	011010	2	Set screw M8 x 20	
㉑	011073	2	M8 Nyloc nut	

Lift arrangement, central brush (wide sweep) left hand dual sweep

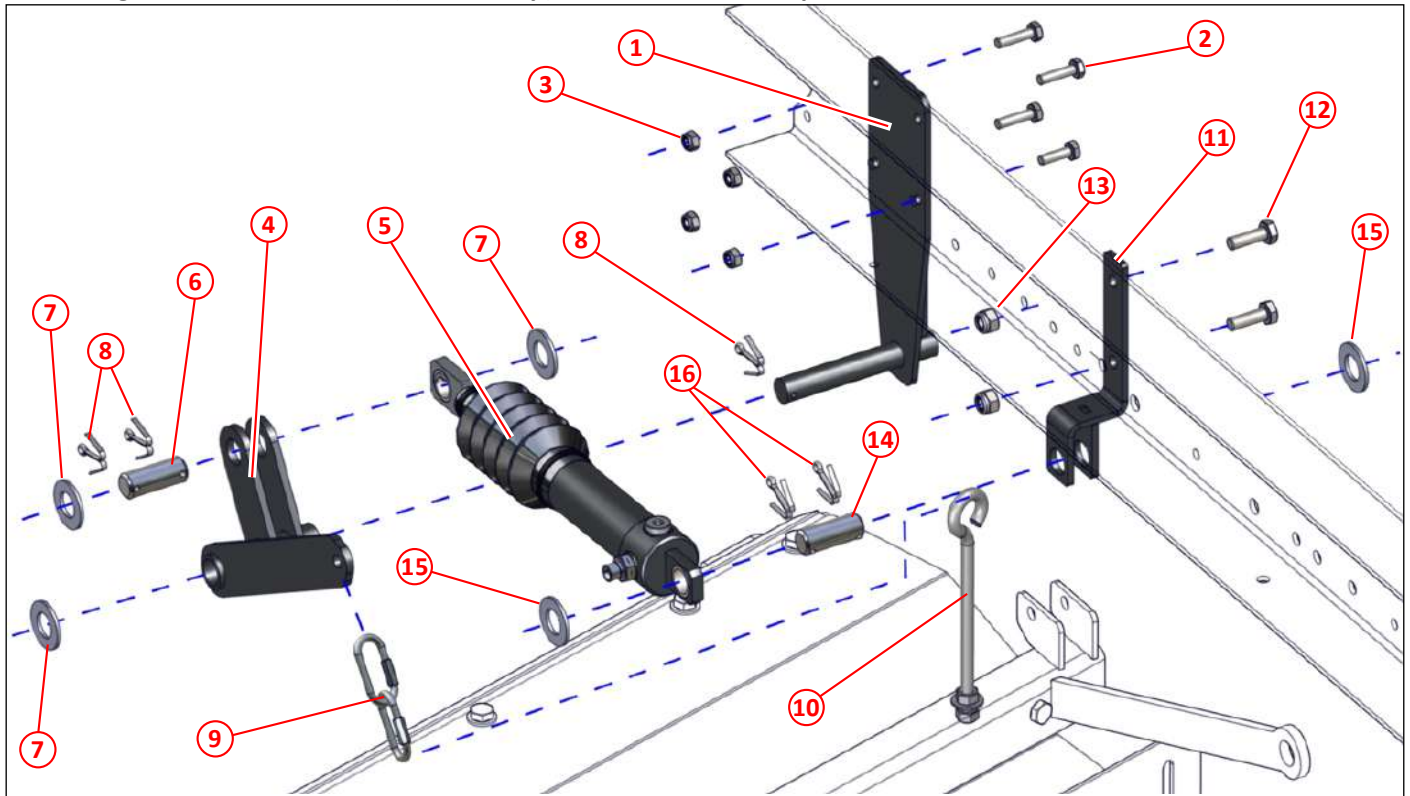


Figure 47: Lift arrangement, central brush (wide sweep) left hand dual sweep

Item	Part No	Qty	Description	
①	013853	1	Bracket central brush (wide sweep) lift	
②	011011	4	Set screw M8 x 25	
③	011073	4	M8 Nyloc nut	
④	014231	1	Brush link	
⑤	027115	1	Ram No 2 240/340	209
⑥	010067	1	Pin 20 x 50	
⑦	011102	3	Plain washer M20	
⑧	011122	3	Split pin $\frac{3}{16}$ " x $1\frac{1}{2}$ "	
⑨	010606	2	Carabiner	
⑩	010248	1	Tensioner includes nuts and washers	
⑪	041927	1	Central brush (wide sweep) ram bracket	
⑫	011032	2	Set screw M10 x 30	
⑬	011075	2	M10 Nyloc nut	
⑭	010067	1	Pin 20 x 50	
⑮	011102	2	Plain washer M20	
⑯	011122	2	Split pin $\frac{3}{16}$ " x $1\frac{1}{2}$ "	

Central brush (wide sweep) right hand dual sweep arrangement

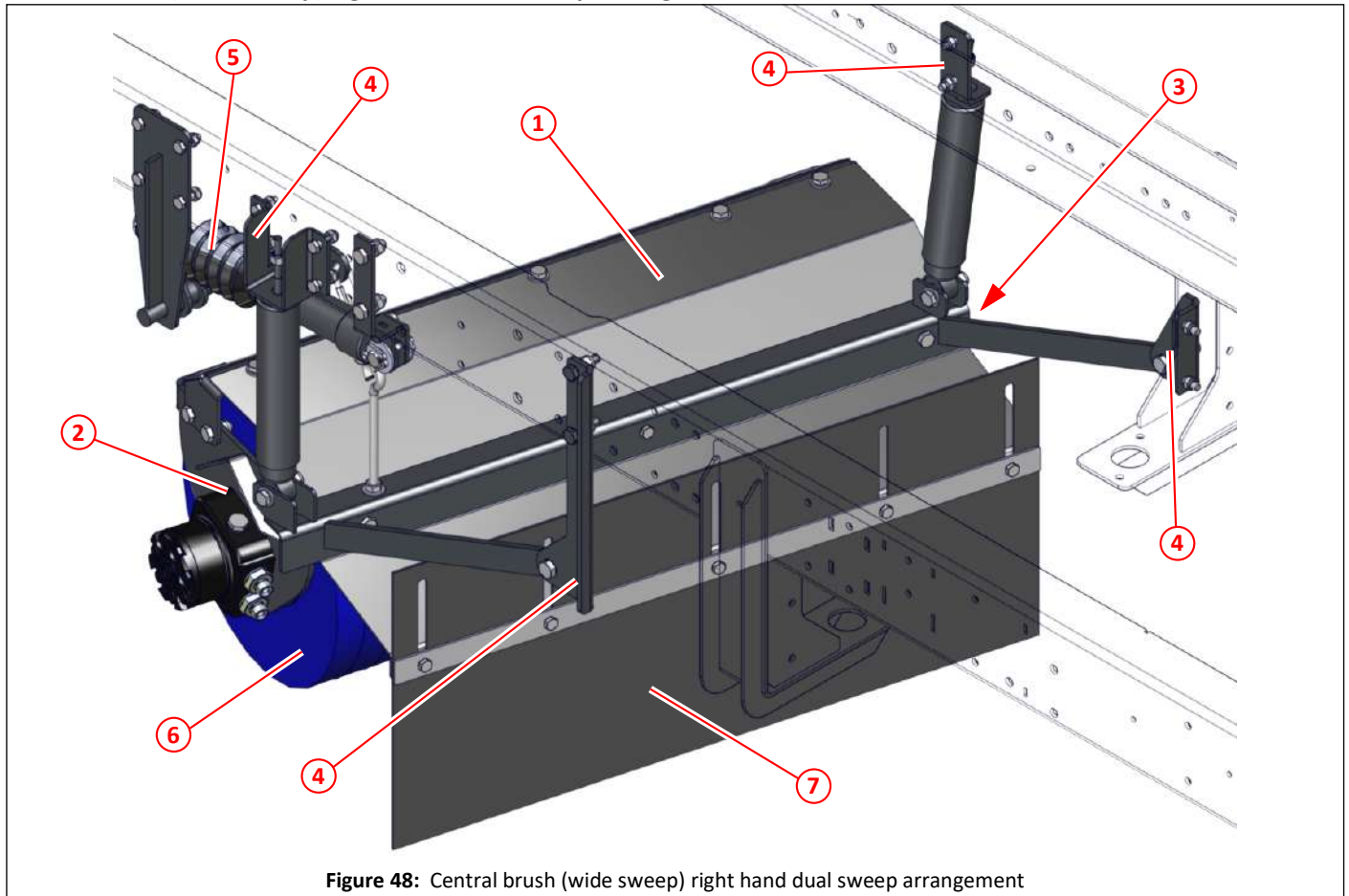


Figure 48: Central brush (wide sweep) right hand dual sweep arrangement

Item	Part No	Qty	Description	
①			Cover and frame	70
②			Motor plate arrangement	71
③			Bearing plate arrangement	72
④			Mountings	73
⑤			Lift arrangement	74
⑥			Brush arrangement	75
⑦			Skirt arrangement	76

Cover and frame, central brush (wide sweep) right hand dual sweep

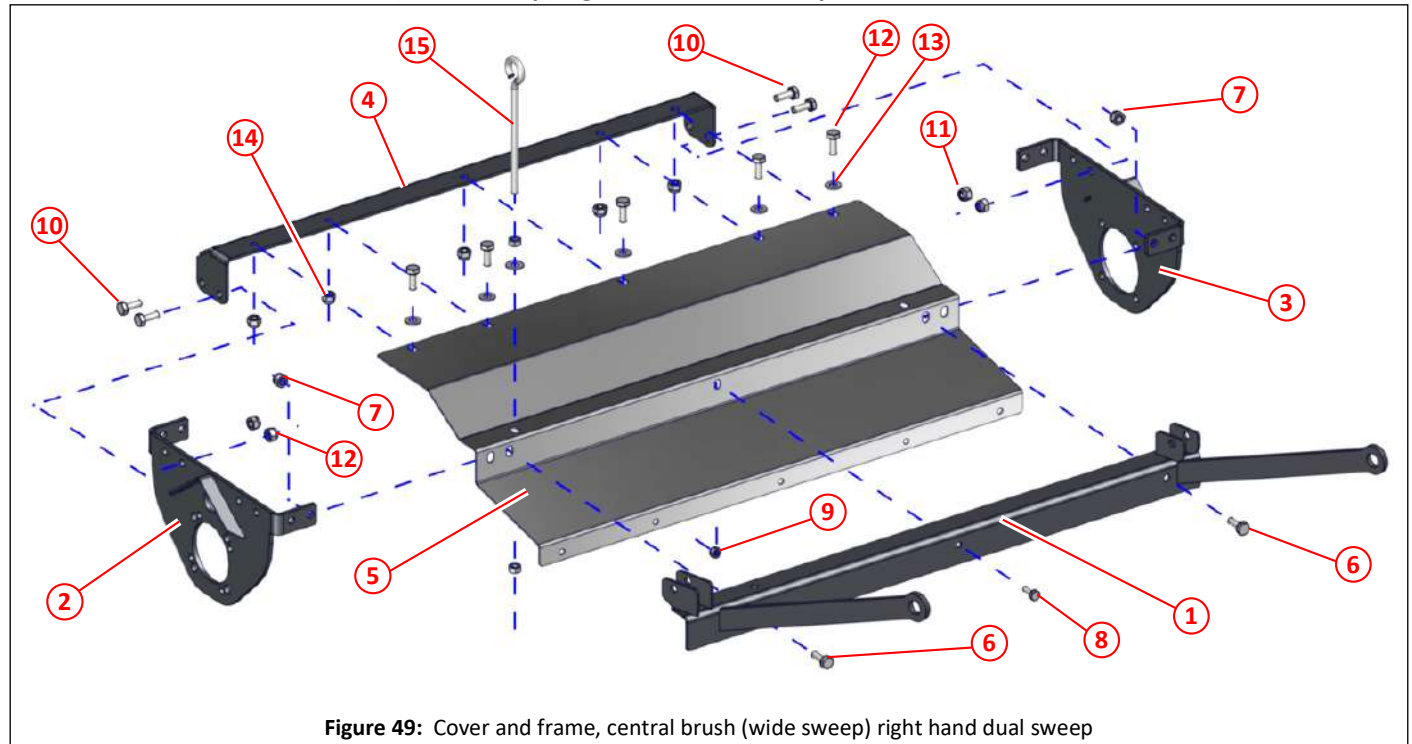


Figure 49: Cover and frame, central brush (wide sweep) right hand dual sweep

Item	Part No	Qty	Description	
①	043108	1	Central brush (wide sweep) hanger right hand dual sweep	
②	037733	1	Motor plate central brush (wide sweep)	71
③	037734	1	Bearing plate central brush (wide sweep)	72
④	042701	1	Central brush (wide sweep) link bar dual sweep	
⑤	042699	1	Central brush (wide sweep) cover dual sweep	76
⑥	011031	2	Set screw M10 x 25	
⑦	011075	2	Nyloc nut M10	
⑧	011010	1	Set screw M8 x 20	
⑨	011073	1	Nyloc nut M8	
⑩	011031	4	Set screw M10 x 25	
⑪	011075	4	Nyloc nut M10	
⑫	011031	5	Set screw M10 x 25	
⑬	011094	5	Plain washer M10	
⑭	011075	5	Nyloc nut M10	
⑮	010248	1	Tensioner includes nuts and washers	

Motor plate arrangement, central brush (wide sweep) right hand dual sweep

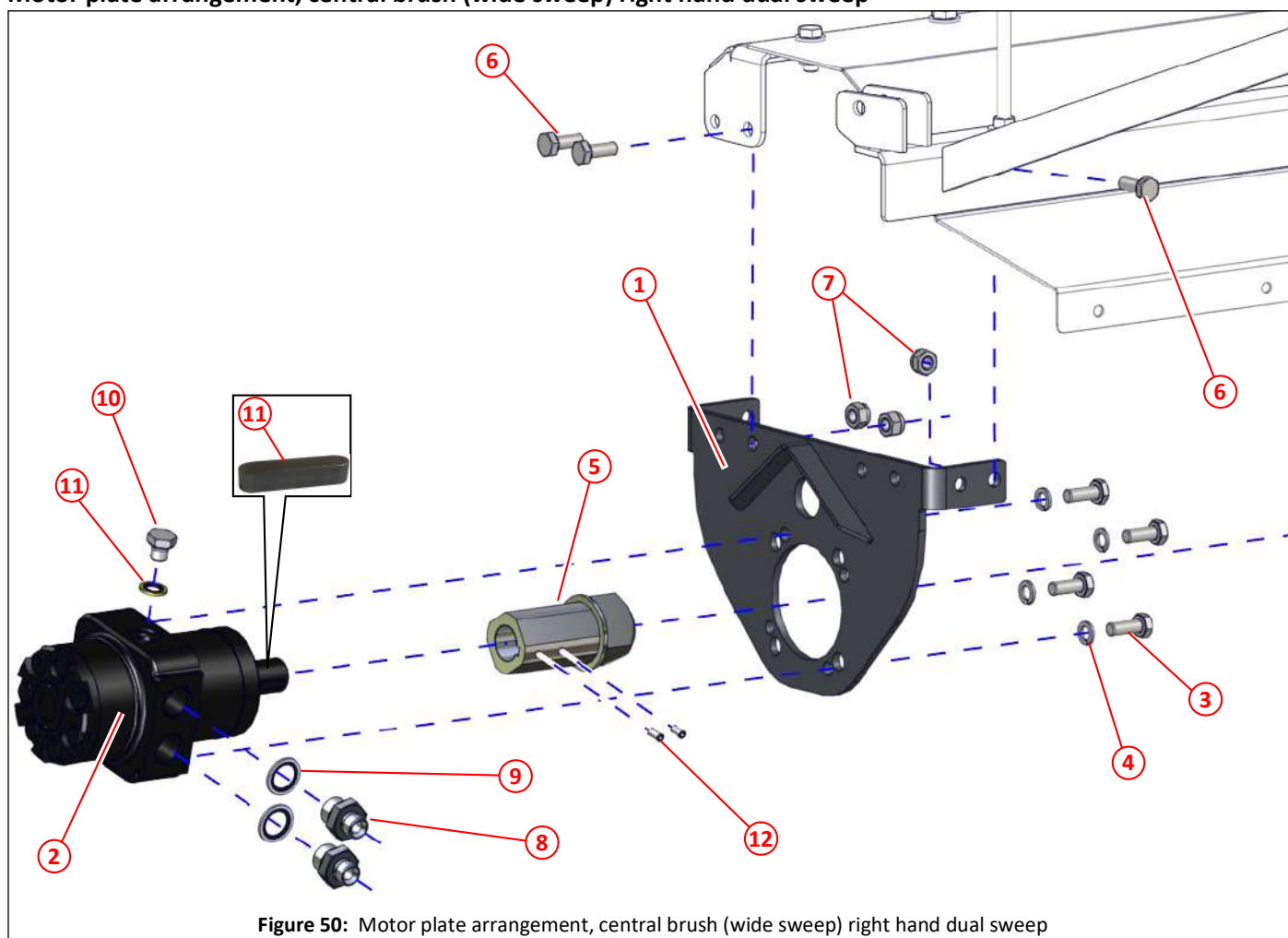
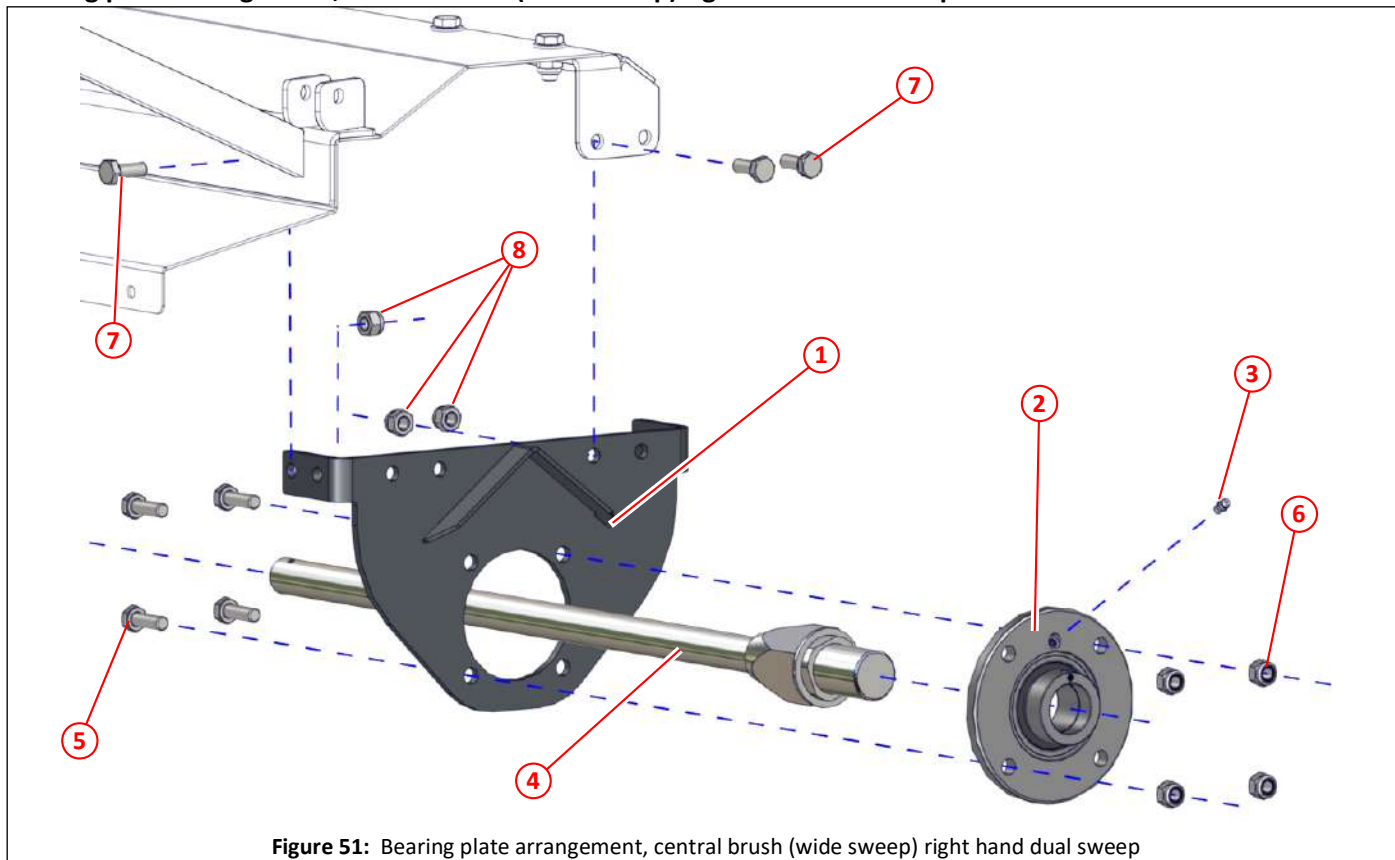


Figure 50: Motor plate arrangement, central brush (wide sweep) right hand dual sweep

Item	Part No	Qty	Description	
①	037733	1	Motor plate central brush (wide sweep)	70
②	023503	1	Motor (OMPW 200)	204
③	011031	4	Set screw M10 x 25	
④	011095	2	Spring washer M10	
⑤	013648	1	Brush drive shaft	
⑥	011031	3	Set screw M10 x 25	
⑦	011075	3	Nyloc nut M10	
⑧	011167	2	Adapter $\frac{1}{2}''$ x $\frac{3}{8}''$ BSP	
⑨	011154	2	Dowty seal $\frac{1}{2}''$ BSP	
⑩	011241	1	Plug $\frac{1}{4}''$ BSP	
⑪	011152	1	Dowty seal $\frac{1}{4}''$ BSP	
⑫	011515	1	Key for item ②	
⑬	011112	2	Grub screw	

Bearing plate arrangement, central brush (wide sweep) right hand dual sweep


Item	Part No	Qty	Description	
①	037734	1	Bearing plate central brush (wide sweep)	70
②	038287	1	Central brush (wide sweep) bearing	
③	043059	1	Grease nipple M6 straight	
④	041527	1	Central brush (wide sweep) drive tube	75
⑤	011032	4	Set screw M10 x 30	
⑥	011075	1	M10 Nyloc nut	
⑦	011031	3	Set screw M10 x 25	
⑧	011075	3	M10 Nyloc nut	

Mountings, central brush (wide sweep) right hand dual sweep

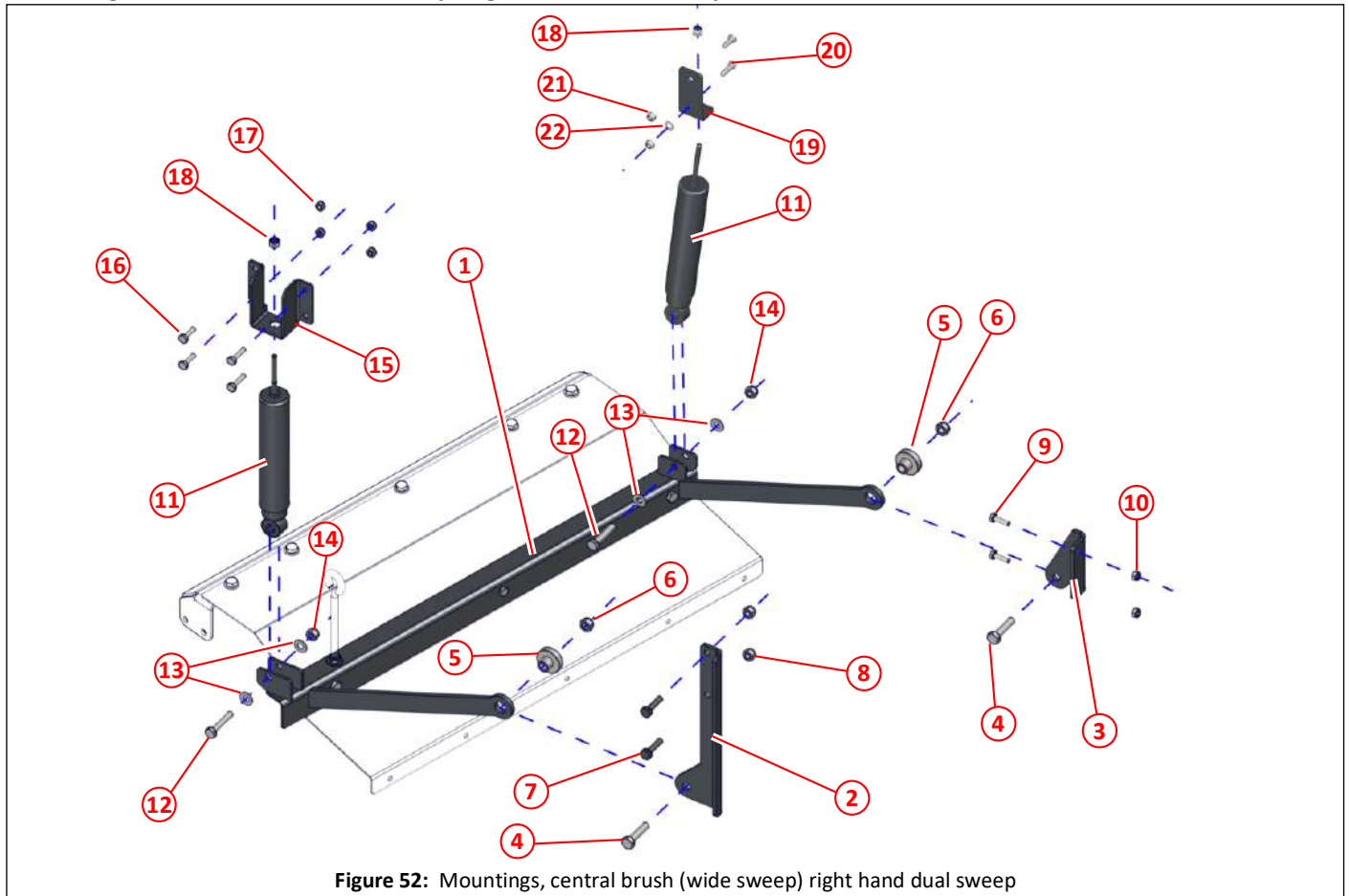


Figure 52: Mountings, central brush (wide sweep) right hand dual sweep

Item	Part No	Qty	Description	
①	043108	1	Central brush (wide sweep) hanger right hand dual sweep	70
②	043121	1	Central brush (wide sweep) chassis bracket	
③	043120	1	Central brush (wide sweep) chassis bracket	
④	011054	2	Set screw M12 x 45	
⑤	010689	2	Link bush	
⑥	011077	2	M12 Nyloc nut	
⑦	011031	2	Set screw M10 x 25	
⑧	011075	2	M10 Nyloc nut	
⑨	011011	2	Set screw M8 x 25	
⑩	011073	2	M8 Nyloc nut	
⑪	012524	2	Shock absorber	
⑫	011035	2	Set screw M10 x 50	
⑬	011094	4	Plain washer M10	
⑭	011075	2	M10 Nyloc nut	
⑮	041524	1	Central brush (wide sweep) suspension bracket	
⑯	011011	4	Set screw M8 x 25	
⑰	011073	4	M8 Nyloc nut	
⑱	000443	2	Nut $\frac{3}{8}$ " UNC type 'P' Nyloc	
⑲	043325	1	Central brush (wide sweep) suspension bracket	
⑳	011010	2	Set screw M8 x 20	
㉑	011073	2	M8 Nyloc nut	
㉒	011092	1	Plain Washer M8	

Lift arrangement, central brush (wide sweep) right hand dual sweep

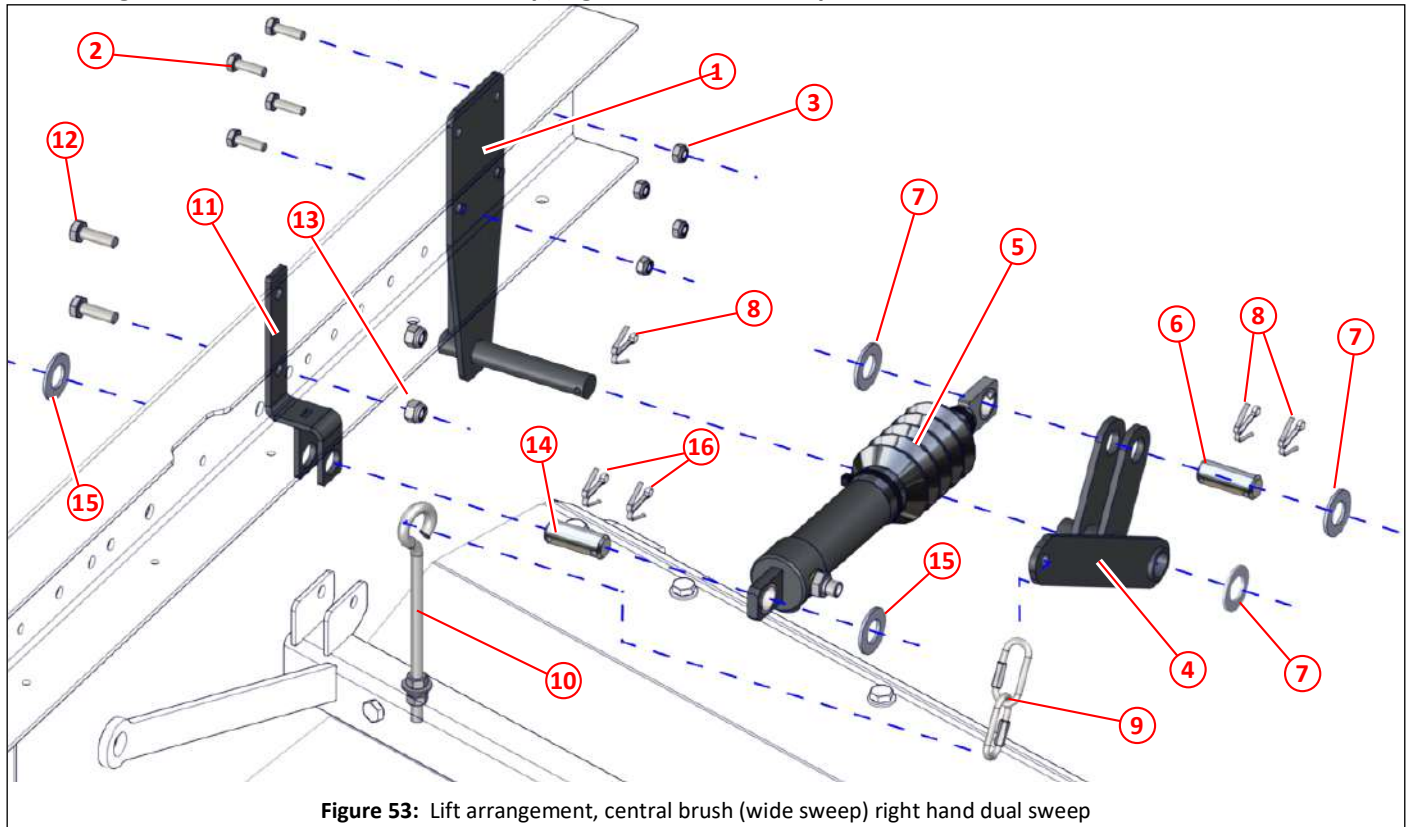
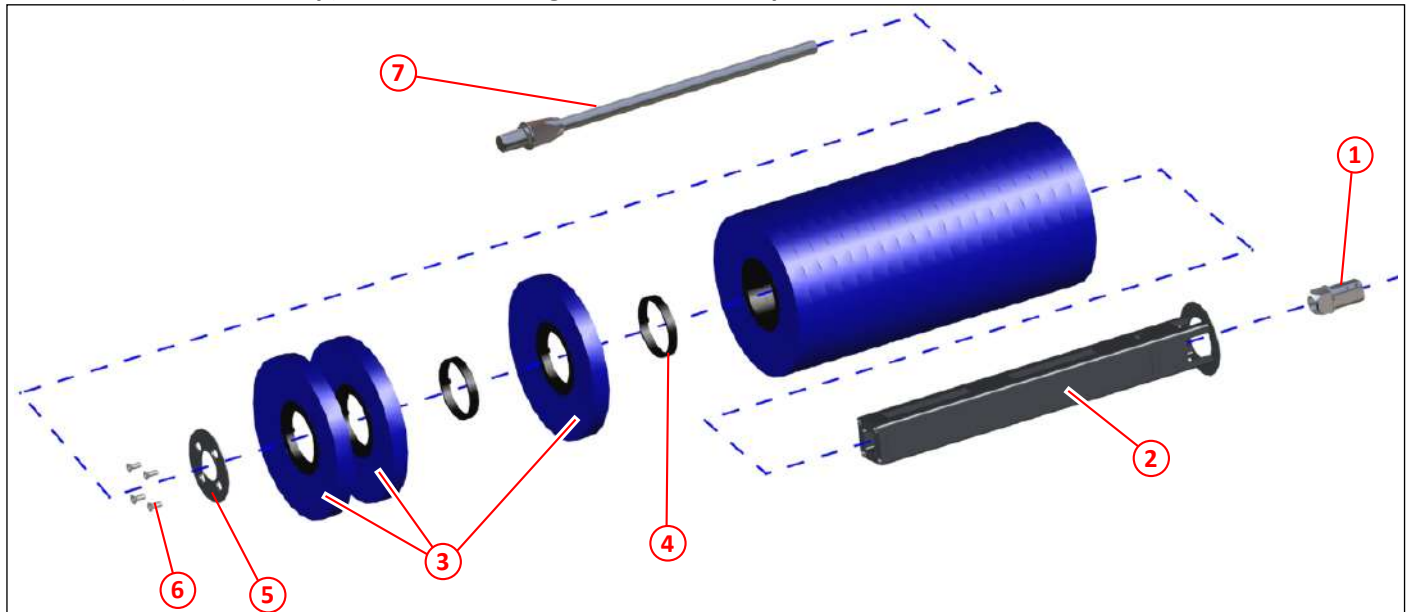


Figure 53: Lift arrangement, central brush (wide sweep) right hand dual sweep

Item	Part No	Qty	Description	
①	013853	1	Bracket central brush (wide sweep) lift	
②	011011	4	Set screw M8 x 25	
③	011073	4	M8 Nyloc nut	
④	013854	1	Brush link	
⑤	027115	1	Ram No 2 240/340	209
⑥	010067	1	Pin 20 x 50	
⑦	011102	3	Plain washer M20	
⑧	011122	3	Split pin $\frac{3}{16}$ " x $1\frac{1}{2}$ "	
⑨	010606	2	Carabiner	
⑩	010248	1	Tensioner includes nuts and washers	
⑪	041927	1	Central brush (wide sweep) ram bracket	
⑫	011032	2	Set screw M10 x 30	
⑬	011075	2	M10 Nyloc nut	
⑭	010067	1	Pin 20 x 50	
⑮	011102	2	Plain washer M20	
⑯	011122	2	Split pin $\frac{3}{16}$ " x $1\frac{1}{2}$ "	

Central brush (wide sweep) brush core arrangement dual sweep



i Please note that the last two brush fill elements, before the end plate, do not have a spacer between them.

Figure 54: Central brush (wide sweep) brush core arrangement dual sweep

Item	Part No	Qty	Description	
①	013648	1	Brush drive shaft	71
②	023528	1	Central brush (wide sweep) brush core dual sweep	
③	023471	22	Brush fill element ø320 poly	
④	023472	20	Brush spacer, central brush (wide sweep)	
⑤	013649	1	End plate, brush core	
⑥	011417	4	Socket cap screw $\frac{3}{8}$ " UNC x 1"	
⑦	042705	1	Central brush (wide sweep) drive tube dual sweep	72
	024382	1	Central brush (wide sweep) brush core assembly - Items ②, ③, ④, ⑤ and ⑥	

Central brush (wide sweep) skirt dual sweep

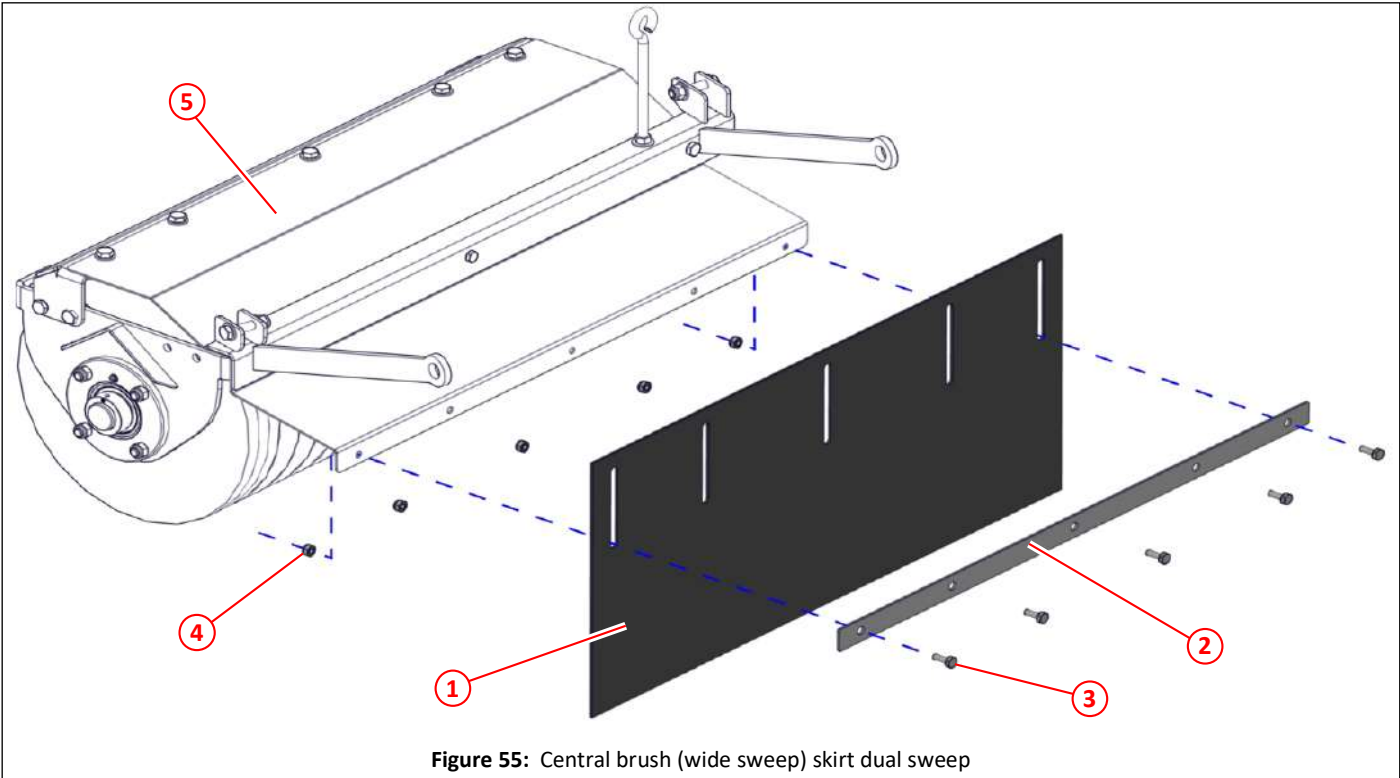


Figure 55: Central brush (wide sweep) skirt dual sweep

Item	Part No	Qty	Description	
①	031249	1	Central brush (wide sweep) skirt dual sweep	
②	023533	1	Central brush (wide sweep) skirt clamp dual sweep	
③	011010	5	Set screw M8 x 20	
④	011073	5	M8 Nyloc nut	
⑤	042699	1	Central brush (wide sweep) cover dual sweep	70

Hoses

List of hydraulic hoses for brush gear.

i For other hoses see the hydraulic section, water section and or the relevant section.

Usage	Description	Part No.	Qty
Front left brush			
Lift	Hose $\frac{1}{4}$ " BSP x 400, straight and 90° ends	001105	1
Swing in/out	Hose $\frac{1}{4}$ " BSP x 270, straight and 90° ends	001121	1
Motor feed	Hose $\frac{3}{8}$ " BSP x 820, straight and 90° ends	001293	1
Motor return	Hose $\frac{3}{8}$ " BSP x 820, straight and 90° ends	001293	1
Front right brush			
Lift	Hose $\frac{1}{4}$ " BSP x 400, straight and 90° ends	001105	1
Swing in/out	Hose $\frac{1}{4}$ " BSP x 270, straight and 90° ends	001121	1
Motor feed	Hose $\frac{3}{8}$ " BSP x 820, straight and 90° ends	001293	1
Motor return	Hose $\frac{3}{8}$ " BSP x 820, straight and 90° ends	001293	1
Left side brush			
Lift	Hose $\frac{1}{4}$ " BSP x 400, straight and 90° ends	001105	1
Swing in/out	Hose $\frac{1}{4}$ " BSP x 200, straight and 90° ends	001243	1
Motor feed	Hose $\frac{3}{8}$ " BSP x 880, 90° ends	001290	1
Motor return	Hose $\frac{3}{8}$ " BSP x 880, 90° ends	001290	1
Right side brush			
Lift	Hose $\frac{1}{4}$ " BSP x 400, straight and 90° ends	001105	1
Swing in/out	Hose $\frac{1}{4}$ " BSP x 200, straight and 90° ends	001243	1
Motor feed	Hose $\frac{3}{8}$ " BSP x 900, 90° ends 180° rotation	001289	1
Motor return	Hose $\frac{3}{8}$ " BSP x 900, 90° ends 180° rotation	001289	1
Left hand drive dual sweep central brush (wide sweep)			
Lift	Hose $\frac{1}{4}$ " BSP x 400, straight and 90° ends	001105	1
Motor feed	Hose $\frac{3}{8}$ " BSP x 475, straight and 90° ends	001255	1
Motor return	Hose $\frac{3}{8}$ " BSP x 500, straight and 90° ends	001294	1
Left hand drive single sweep central brush (wide sweep)			
Lift	Hose $\frac{1}{4}$ " BSP x 400, straight and 90° ends	001105	1
Motor feed	Hose $\frac{3}{8}$ " BSP x 580, straight and 90° ends	001088	1
Motor return	Hose $\frac{3}{8}$ " BSP x 680, straight and 90° ends	001227	1
Right hand drive dual sweep central brush (wide sweep)			
Lift	Hose $\frac{1}{4}$ " BSP x 400, straight and 90° ends	001105	1
Motor feed	Hose $\frac{3}{8}$ " BSP x 580, straight and 90° ends	001088	1
Motor return	Hose $\frac{3}{8}$ " BSP x 620, straight and 90° ends	001228	1
Right hand drive single sweep central brush (wide sweep)			
Lift	Hose $\frac{1}{4}$ " BSP x 400, straight and 90° ends	001105	1
Motor feed	Hose $\frac{3}{8}$ " BSP x 770, straight and 90° ends	001022	1
Motor return	Hose $\frac{3}{8}$ " BSP x 680, straight and 90° ends	001227	1

Suction

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Suction nozzle arrangement, left hand

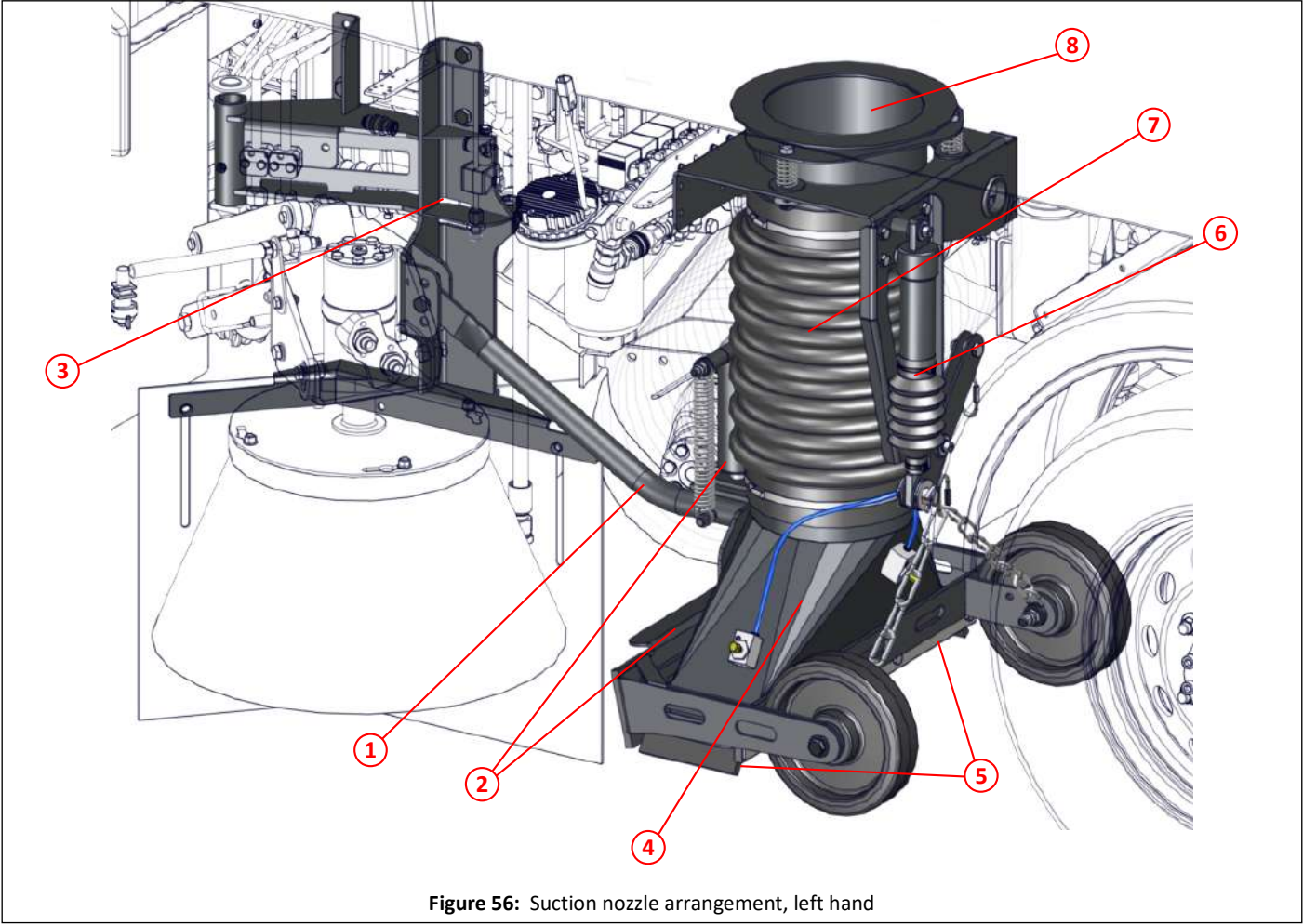


Figure 56: Suction nozzle arrangement, left hand

Item	Part No	Qty	Description	
①			Suction nozzle frame	81
②			Suction nozzle flap tilt	82
③			Mounting bracket, side brush and suction nozzle	81
④			Suction nozzle box	81,82,83
⑤			Suction nozzle flaps	83
⑥			Suction nozzle lift	84
⑦			Suction hose	85
⑧			Suction spigot	85

Suction nozzle frame, left hand

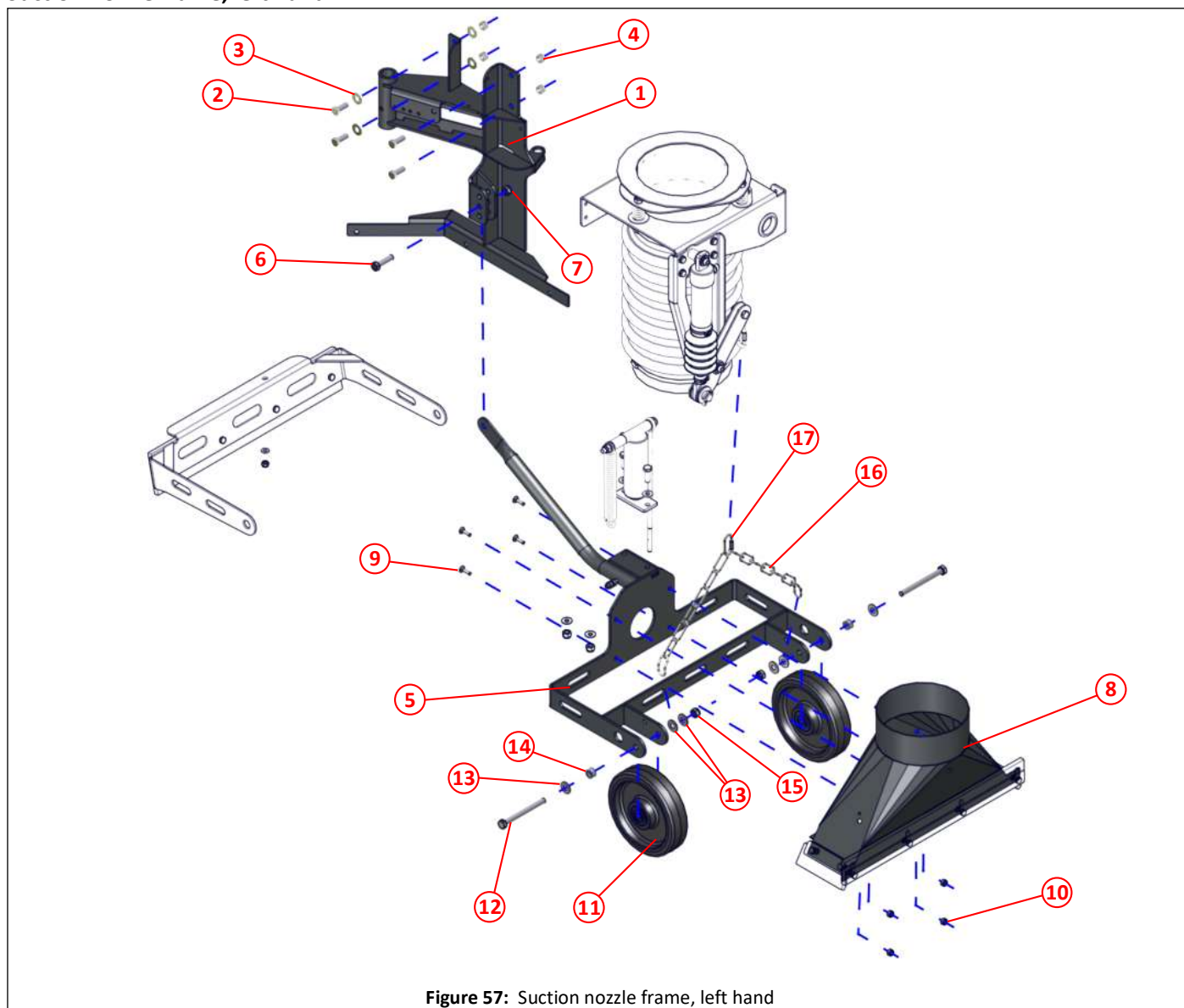


Figure 57: Suction nozzle frame, left hand

Item	Part No	Qty	Description	
①	013485	1	Mounting bracket, side brush and suction nozzle, left hand	
②	011052	4	Set screw M12 x 30	
③	011096	4	Plain washer M12	
④	011077	4	Nyloc nu M12t	
⑤	041501	1	Suction nozzle frame	
⑥	011054	1	Set screw M12 x 45	
⑦	011077	1	Nyloc nut M12	
⑧	013398	1	Suction nozzle box	
⑨	000371	4	Socket countersunk screw M8 x 25	
⑩	011073	4	Nyloc nut M8	
⑪	032438	2	Wheel ø200	
⑫	011105	2	Bolt M12 x 120	
⑬	011096	6	Plain washer M12	
⑭	011724	2	Spacer ø12.5 x ø20 x 11	
⑮	011077	2	Nyloc nut M12	
⑯	010525	As Req.	Chain link, large	
⑰	010606	1	Carabiner	

Suction nozzle flap tilt, left hand

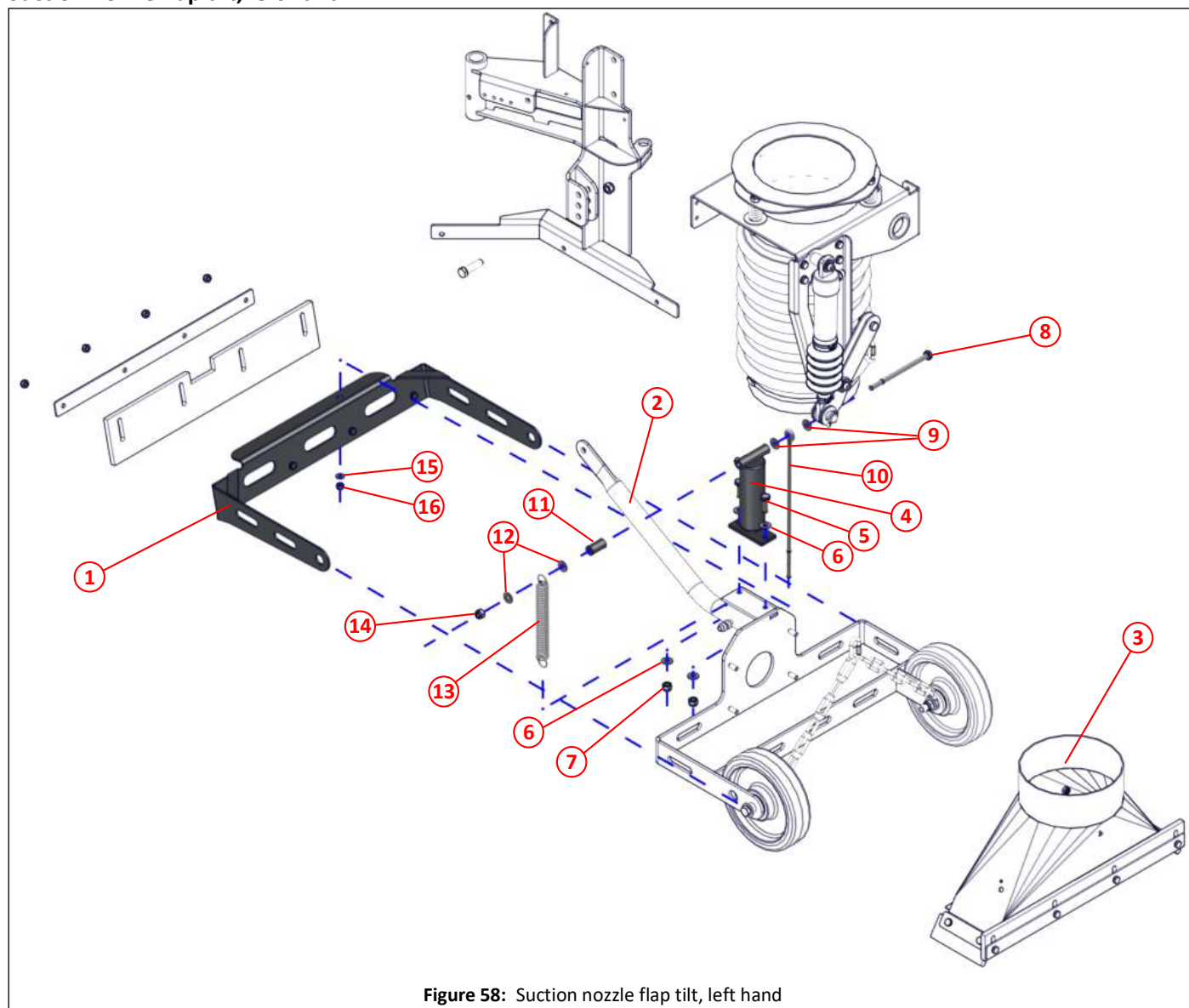


Figure 58: Suction nozzle flap tilt, left hand

Item	Part No	Qty	Description	
①	037722	1	Flap tilt frame	
②	041501	1	Suction nozzle frame	
③	013398	1	Suction nozzle box	
④	027113	1	Ram, flap tilt	210
⑤	011032	2	Set screw M10 x 30	
⑥	011094	4	Plain washer M10	
⑦	011075	2	M10 Nyloc nut	
⑧	000132	1	Bolt M10 x 150	
⑨	011094	2	Plain washer M10	
⑩	011811	1	Lift rod	
⑪	037723	1	Spacer	
⑫	011094	2	Plain washer M10	
⑬	010521	1	Spring	
⑭	011075	1	M10 Nyloc nut	
⑮	011092	1	Plain washer M8	
⑯	011073	1	M8 Nyloc nut	

Suction nozzle and flap, left hand

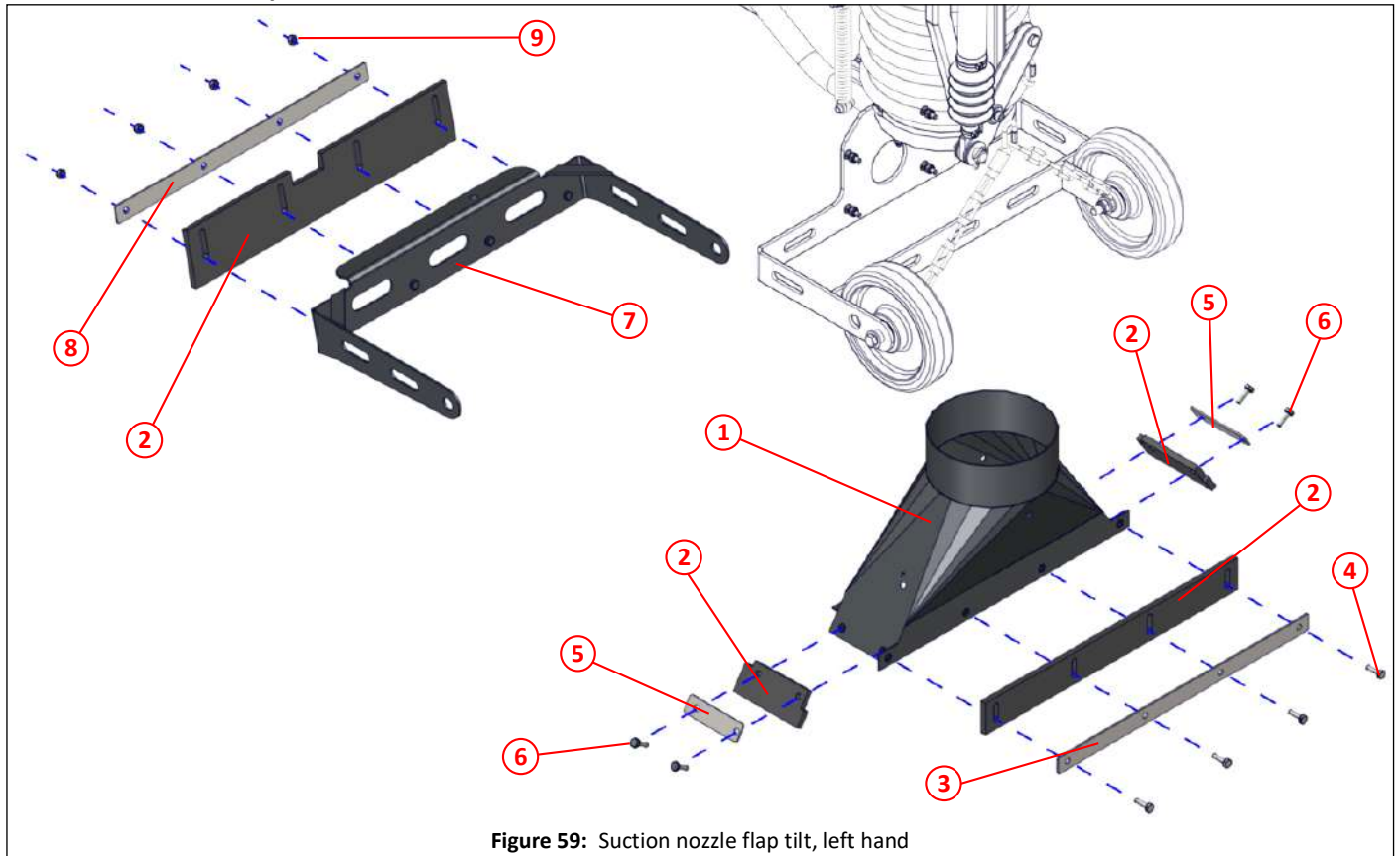


Figure 59: Suction nozzle flap tilt, left hand

Item	Part No	Qty	Description	
①	013398	1	Suction nozzle box	
②	011593	1	Suction nozzle flap set, 1 x front, 1 x rear and 2 x side flaps in the set.	
③	011592	1	Clamp nozzle flap front/rear	
④	011011	4	Set screw M8 x 25	
⑤	013615	2	Clamp nozzle flap side	
⑥	011011	4	Set screw M8 x 25	
⑦	037722	1	Flap tilt frame	
⑧	011592	1	Clamp nozzle flap front/rear	
⑨	011073	4	M8 Nyloc nut	

Suction nozzle lift, left hand

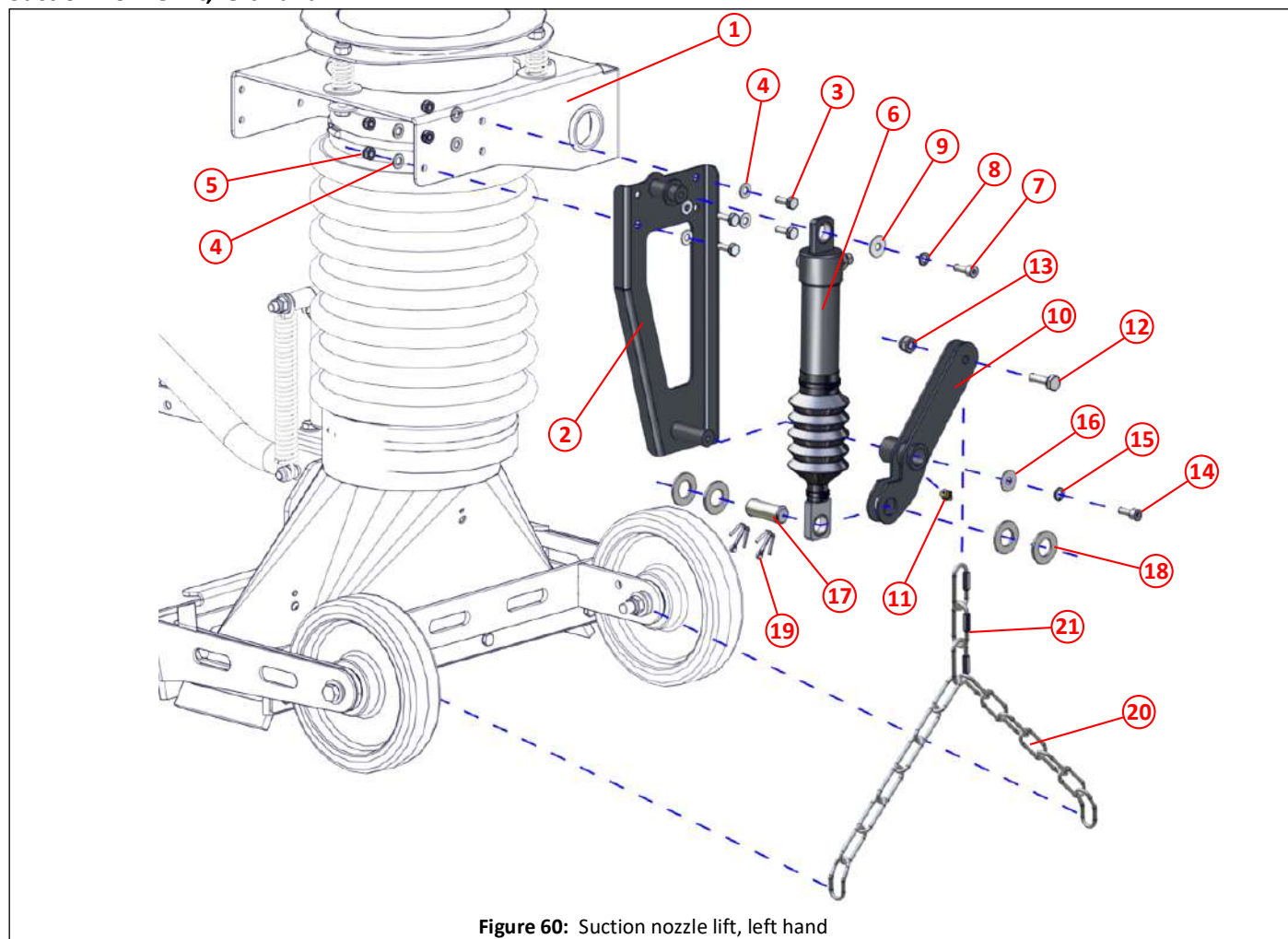


Figure 60: Suction nozzle lift, left hand

Item	Part No	Qty	Description	
①	041499	1	Suction spigot mount	
②	042026	1	Suction nozzle lift bracket, left hand	
③	011010	4	Set screw M8 x 20	
④	011092	8	Plain washer M8	
⑤	011073	4	Nyloc nut M8	
⑥	027114	1	Ram No 1 240/340 assembly	206
⑦	000105	1	Socket head cap screw M8 x 16	
⑧	011093	1	Spring washer M8	
⑨	000407	1	Repair washer M8, plated	
⑩	042028	1	Suction nozzle lift arm, left hand	
⑪	010903	1	Grease nipple straight x $\frac{1}{8}$ " BSP	
⑫	011032	1	Set screw M10 x 30	
⑬	011075	1	Nyloc nut M10	
⑭	000105	1	Socket head cap screw M8 x 16	
⑮	011093	1	Spring washer M8	
⑯	000407	1	Repair washer M8, plated	
⑰	010067	1	Pin 20 X 50	
⑱	011102	4	Plain washer M20	
⑲	011122	2	Split pin $\frac{3}{16}$ " x $1\frac{1}{2}$ "	
⑳	010525	As Req.	Chain link large	
㉑	010606	3	Carabiner	

Suction nozzle hose and spigot, left hand

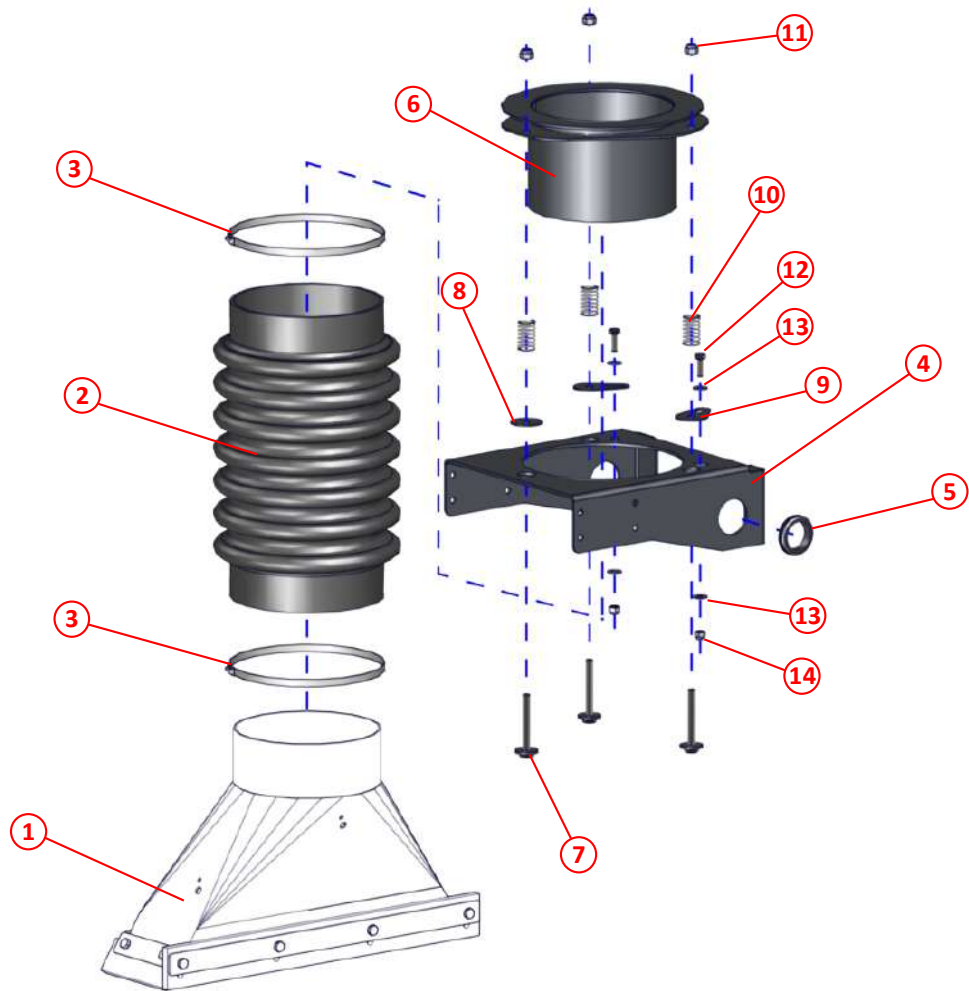


Figure 61: Suction nozzle hose and spigot, left hand

Item	Part No	Qty	Description	
①	013398	1	Suction nozzle box	
②	023154	1	Suction hose	
③	012932	2	Worm drive clip No. 8.50 [184 - 216]	
④	041499	1	Suction spigot mount	
⑤	022257	1	Grommet 40 x 50 x 4	
⑥	042024	1	Suction spigot	
⑦	043285	3	Suction spigot bolt	
⑧	042693	1	Spring seat washer	
⑨	043286	2	Spring seat locking	
⑩	042694	3	Spring	
⑪	000269	3	Nyloc nut M10, stainless steel	
⑫	000257	2	Set screw M8 x 25, stainless steel	
⑬	000264	4	Plain washer M8, stainless steel	
⑭	000263	2	Nyloc nut M8, stainless steel	

Suction nozzle arrangement, right hand

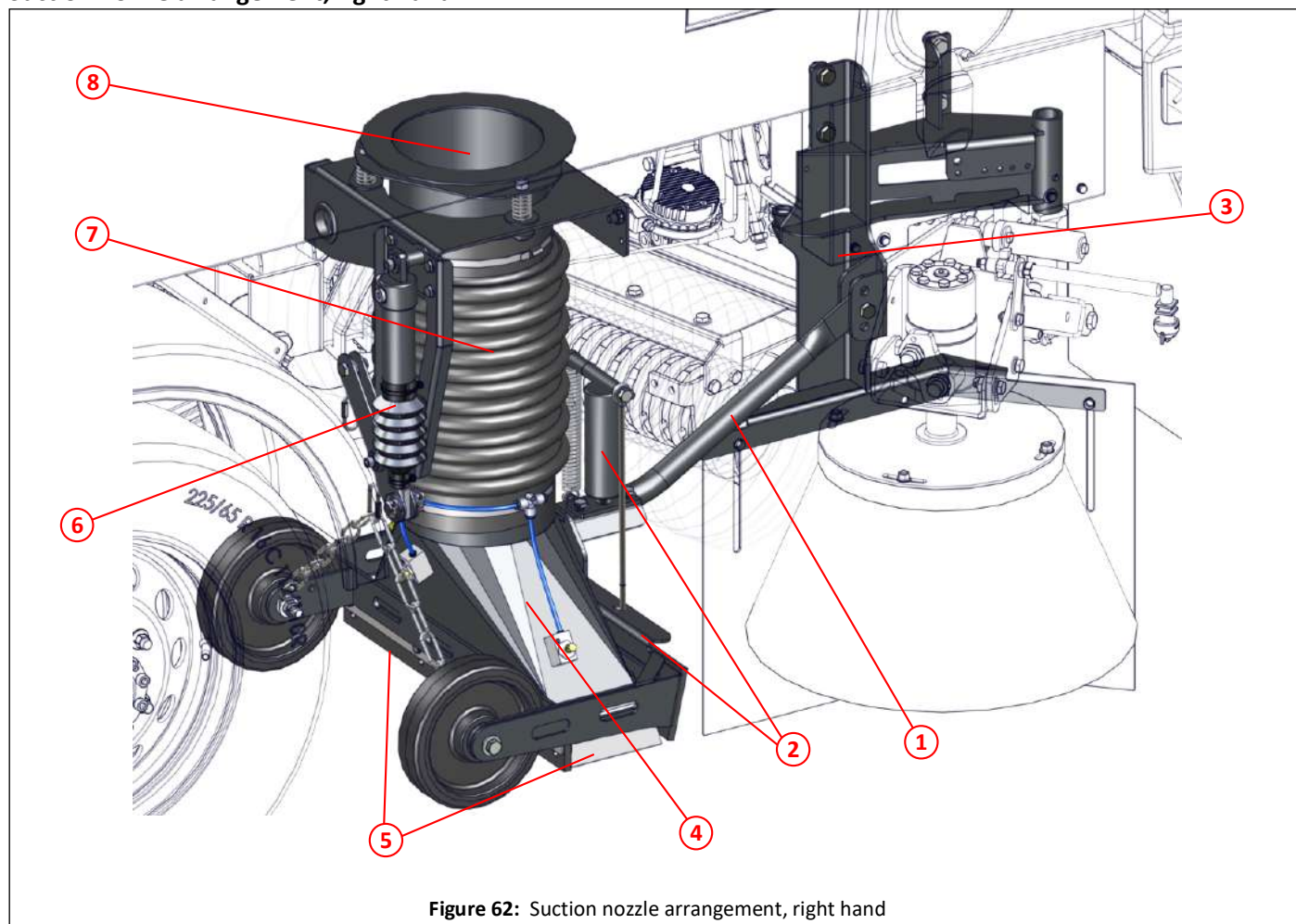


Figure 62: Suction nozzle arrangement, right hand

Item	Part No	Qty	Description	
①			Suction nozzle frame	87
②			Suction nozzle flap tilt	88
③			Mounting bracket, side brush and suction nozzle	87
④			Suction nozzle box	87,88,89
⑤			Suction nozzle flaps	89
⑥			Suction nozzle lift	90
⑦			Suction hose	91
⑧			Suction spigot	91

Suction nozzle frame, right hand

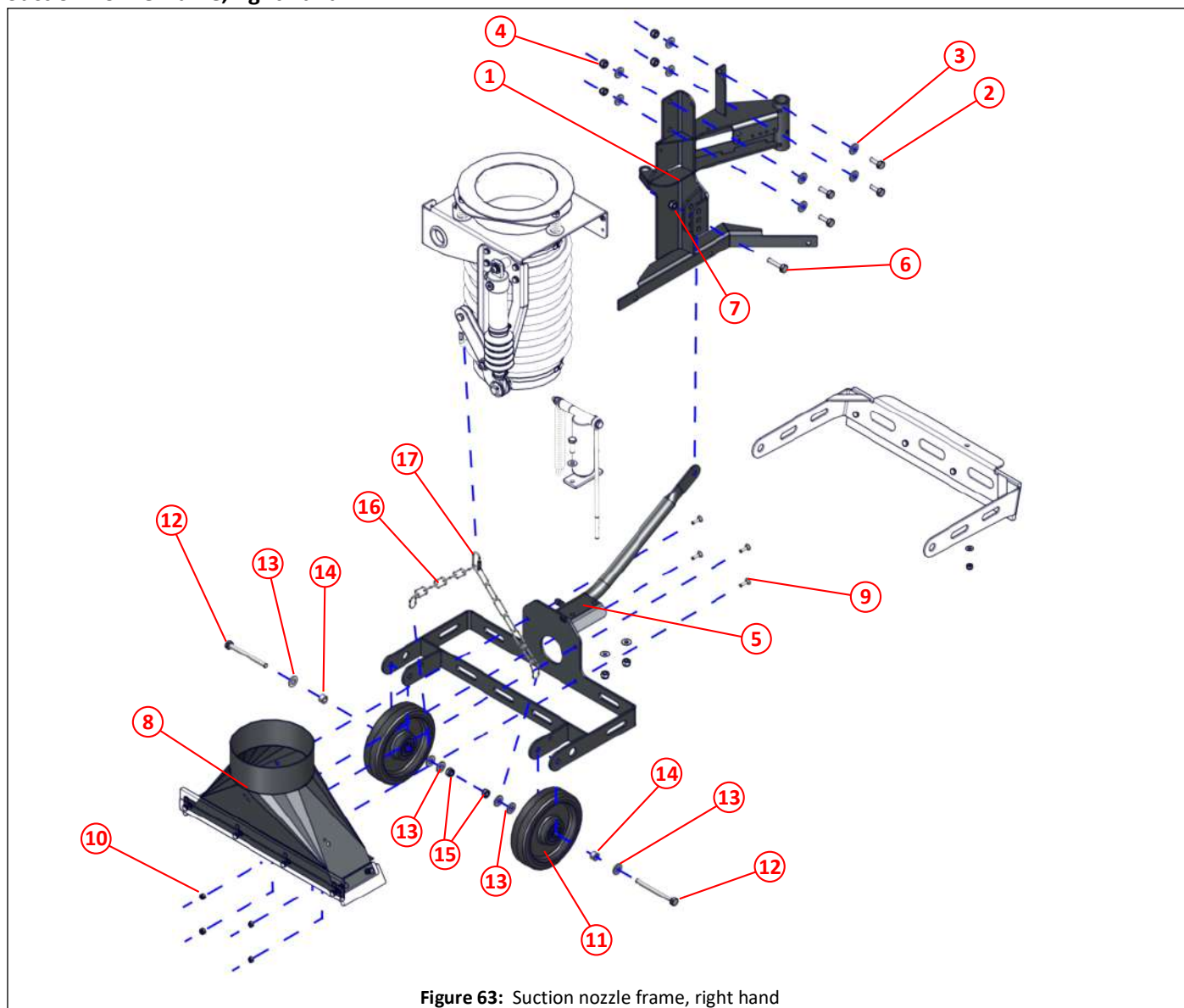


Figure 63: Suction nozzle frame, right hand

Item	Part No	Qty	Description	
①	014229	1	Mounting bracket, side brush and suction nozzle, right hand	
②	011052	4	Set screw M12 x 30	
③	011096	8	Plain washer M12	
④	011077	4	M12 Nyloc nut	
⑤	041501	1	Suction nozzle frame	
⑥	011054	1	Set screw M12 x 45	
⑦	011077	1	M12 Nyloc nut	
⑧	013398	1	Suction nozzle box	
⑨	000371	4	Socket countersunk screw M8 x 25	
⑩	011073	4	M8 Nyloc nut	
⑪	032438	2	Wheel ø200	
⑫	011105	2	Bolt M12 x 120	
⑬	011096	6	Plain washer M12	
⑭	011724	2	Spacer 20 x 12.5 x 11	
⑮	011077	2	M12 Nyloc nut	
⑯	010525	As Req.	Chain link large	
⑰	010606	1	Carabiner	

Suction nozzle flap tilt, right hand

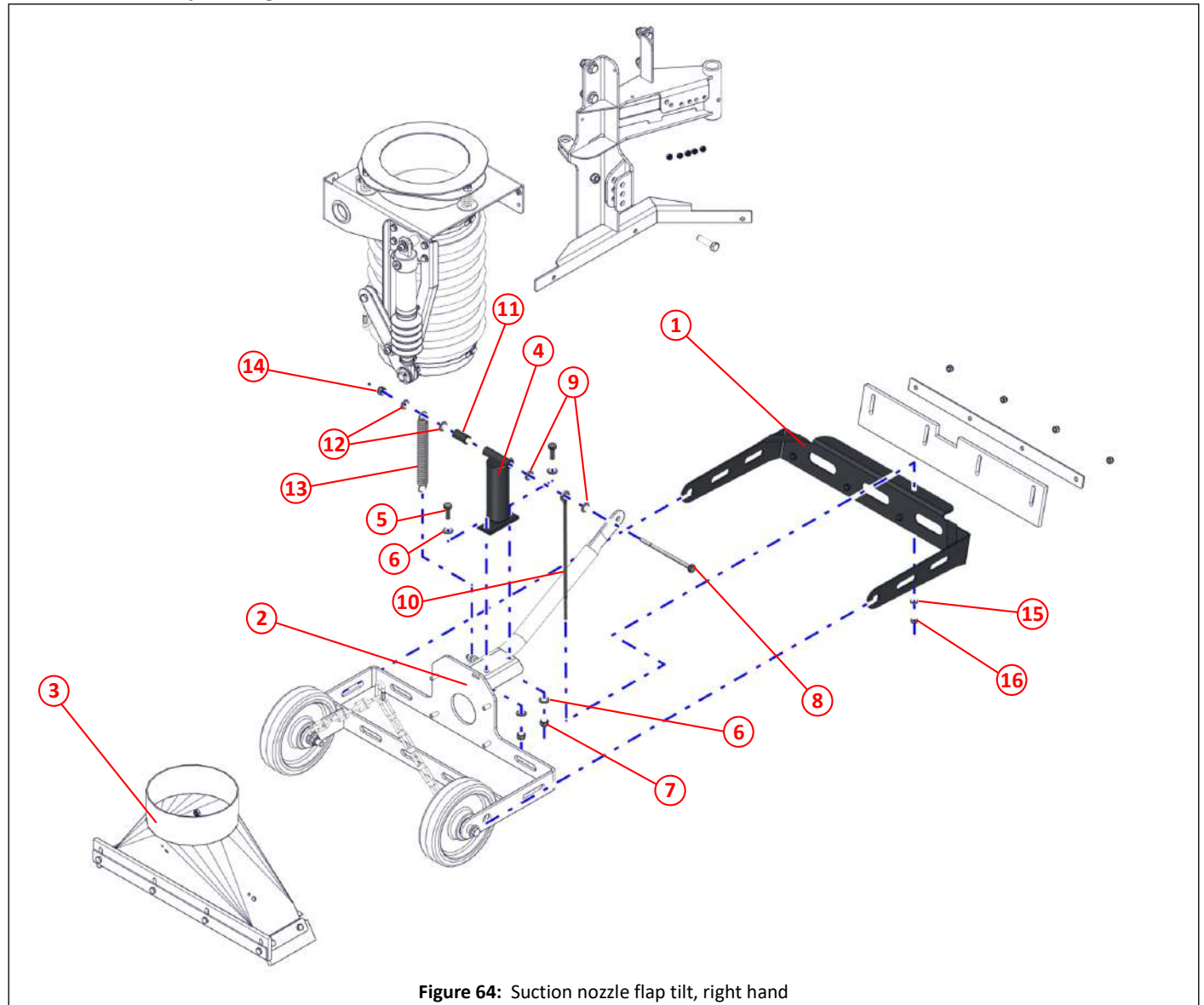


Figure 64: Suction nozzle flap tilt, right hand

Item	Part No	Qty	Description	
①	037722	1	Flap tilt frame	
②	041501	1	Suction nozzle frame	
③	013398	1	Suction nozzle box	
④	027113	1	Ram, flap tilt	210
⑤	011032	2	Set screw M10 x 30	
⑥	011094	4	Plain washer M10	
⑦	011075	2	M10 Nyloc nut	
⑧	000132	1	Bolt M10 x 150	
⑨	011094	2	Plain washer M10	
⑩	011811	1	Lift rod	
⑪	037723	1	Spacer	
⑫	011094	2	Plain washer M10	
⑬	010521	1	Spring	
⑭	011075	1	M10 Nyloc nut	
⑮	011092	1	Plain washer M8	
⑯	011073	1	M8 Nyloc nut	

Suction nozzle and flap, right hand

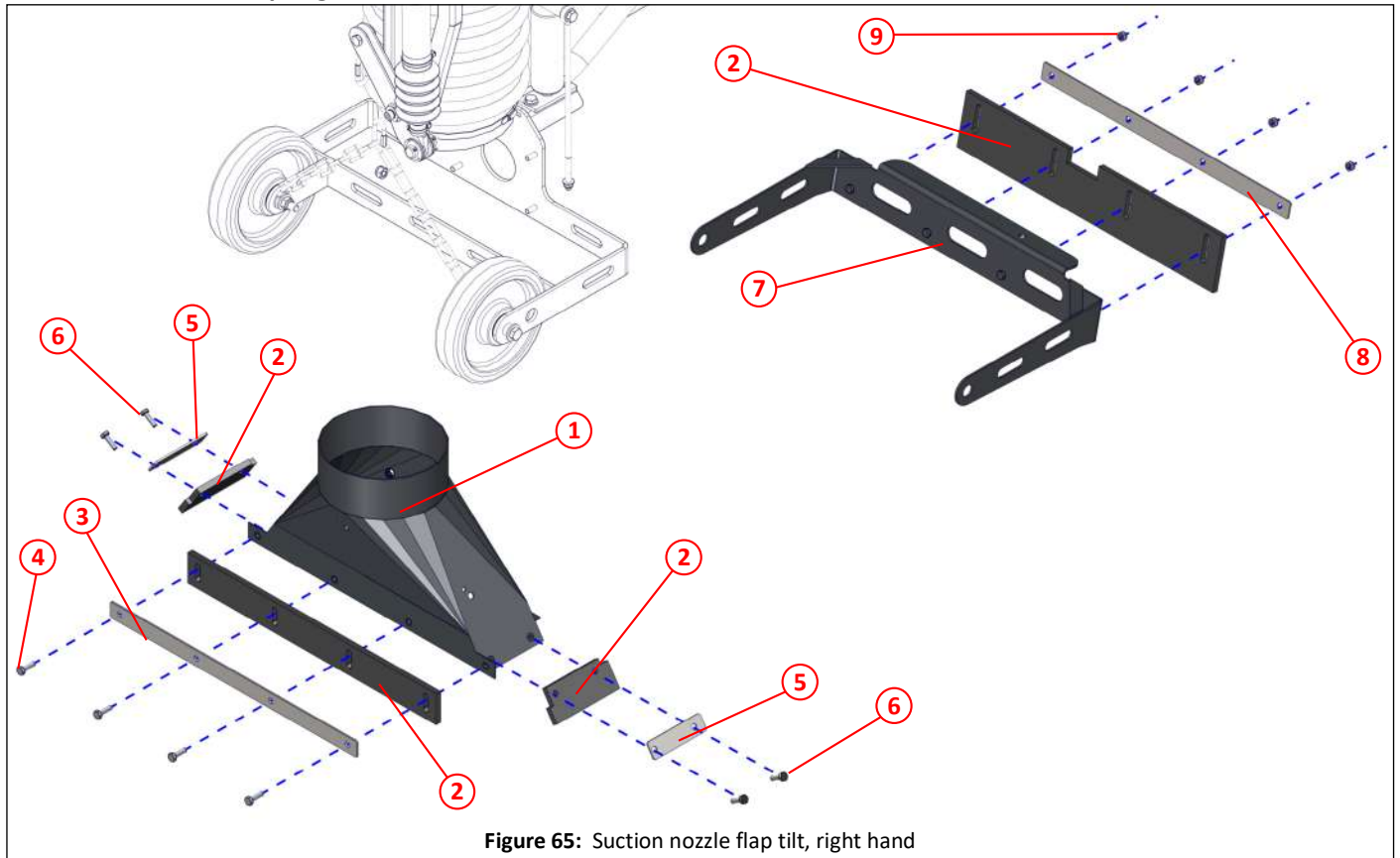


Figure 65: Suction nozzle flap tilt, right hand

Item	Part No	Qty	Description	
①	013398	1	Suction nozzle box	
②	011593	1	Suction nozzle flap set, 1 x front, 1 x rear and 2 x side flaps in the set.	
③	011592	1	Clamp nozzle flap front/rear	
④	011011	4	Set screw M8 x 25	
⑤	013615	2	Clamp nozzle flap side	
⑥	011011	4	Set screw M8 x 25	
⑦	037722	1	Flap tilt frame	
⑧	011592	1	Clamp nozzle flap front/rear	
⑨	011073	4	M8 Nyloc nut	

Suction nozzle lift, right hand

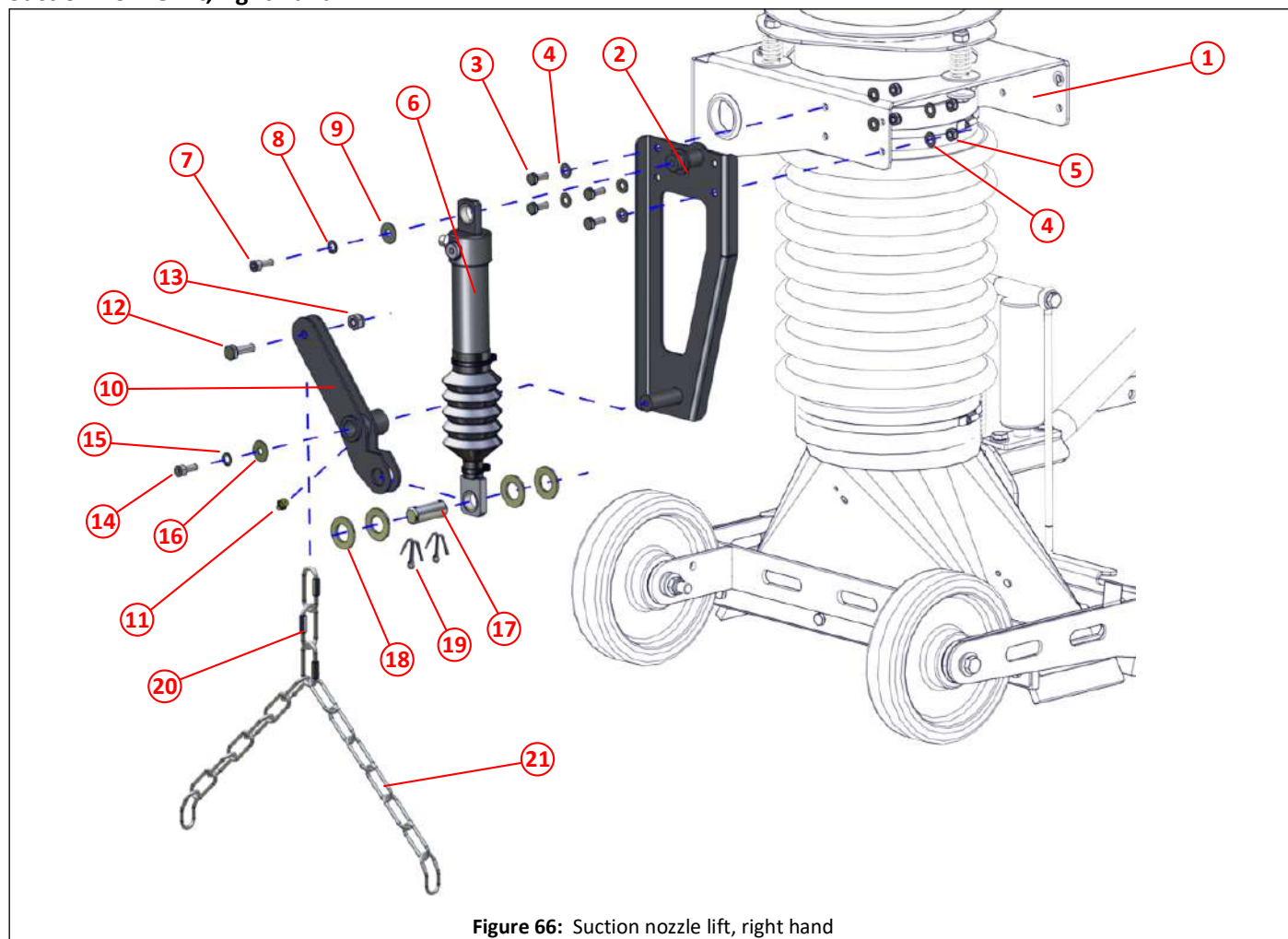


Figure 66: Suction nozzle lift, right hand

Item	Part No	Qty	Description	
①	041499	1	Suction spigot mount	
②	042027	1	Suction nozzle lift bracket, right hand	
③	011010	4	Set screw M8 x 20	
④	011092	8	Plain washer M8	
⑤	011073	4	M8 Nyloc nut	
⑥	027114	1	Ram No 1 240/340 assembly	206
⑦	000105	1	Socket head cap screw M8 x 16	
⑧	011093	1	Spring washer M8	
⑨	000407	1	Repair washer M8, plated	
⑩	042029	1	Suction nozzle lift arm, right hand	
⑪	010903	1	Grease nipple straight x $\frac{1}{8}$ " BSP	
⑫	011032	1	Set screw M10 x 30	
⑬	011075	1	M10 Nyloc nut	
⑭	000105	1	Socket head cap screw M8 x 16	
⑮	011093	1	Spring washer M8	
⑯	000407	1	Repair washer M8, plated	
⑰	010067	1	Pin 20 X 50	
⑱	011102	4	Plain washer M20	
⑲	011122	2	Split pin $\frac{3}{16}$ " x $1\frac{1}{2}$ "	
⑳	010525	As Req.	Chain link large	
㉑	010606	3	Carabiner	

Suction nozzle hose and spigot, right hand

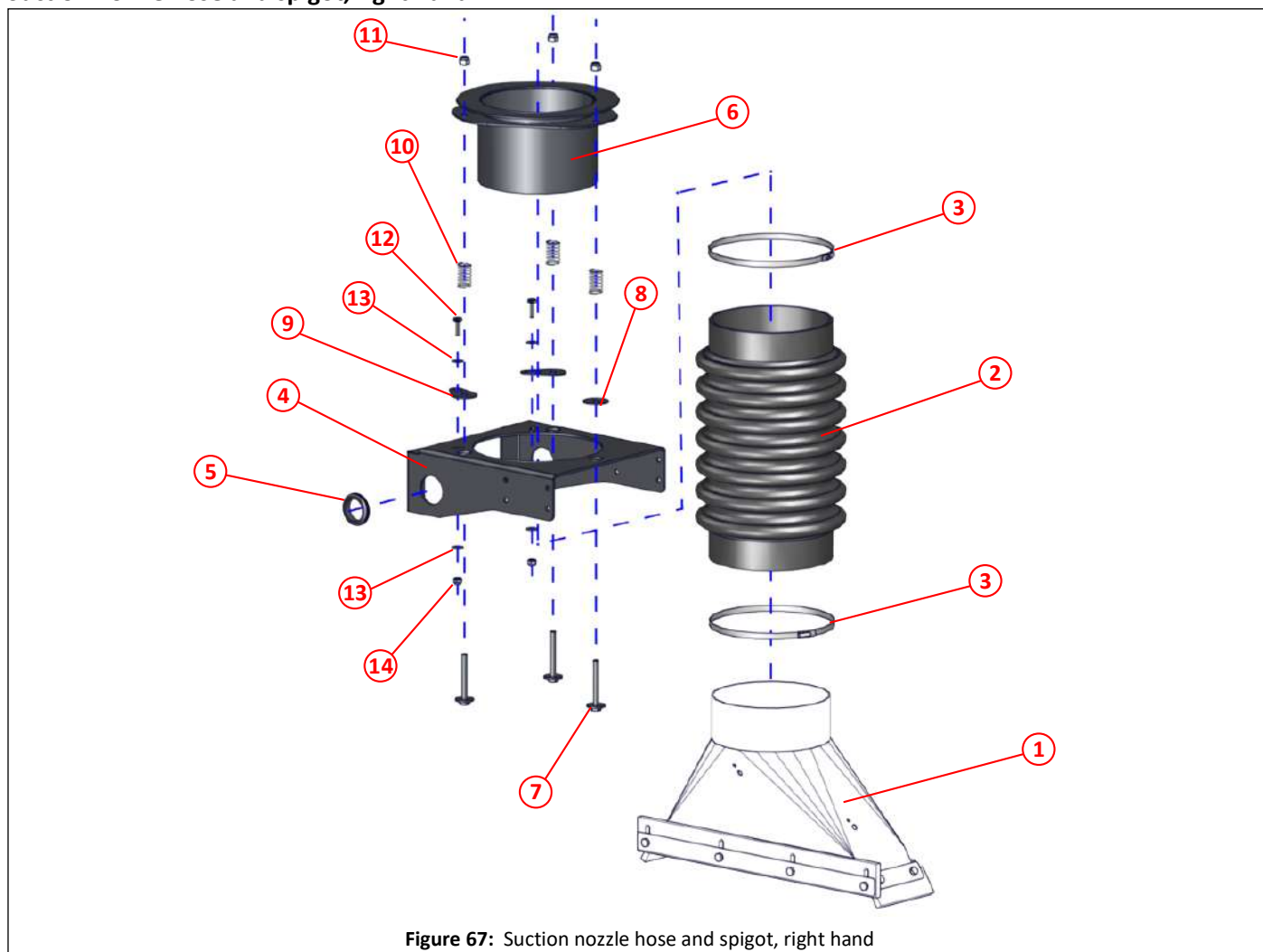
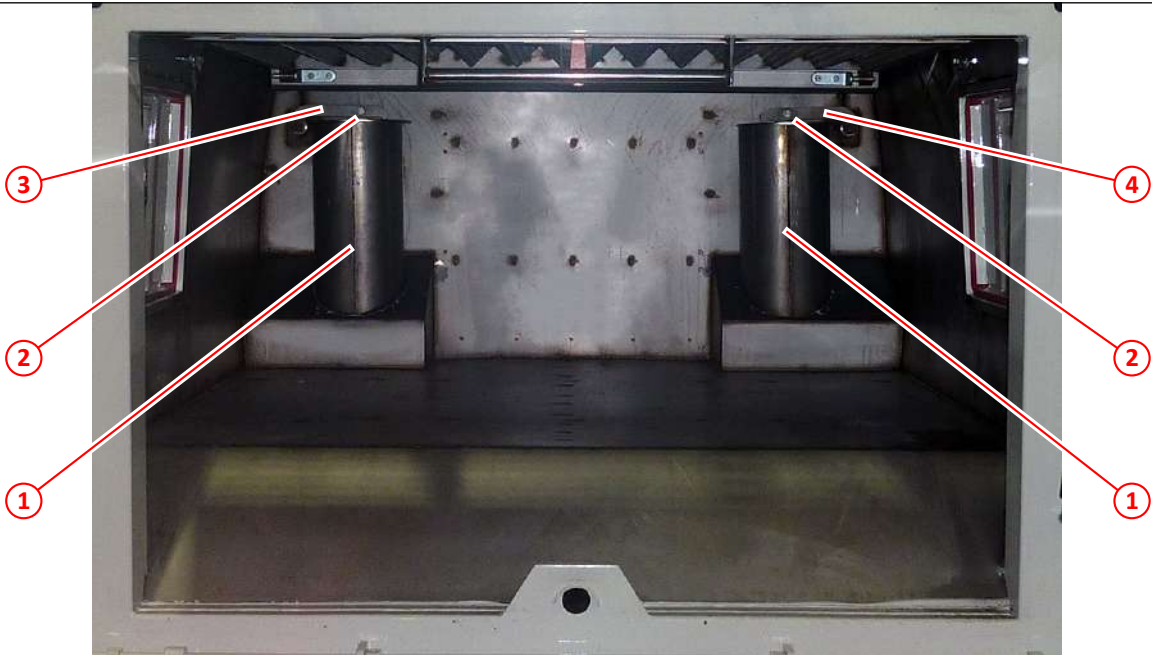


Figure 67: Suction nozzle hose and spigot, right hand

Item	Part No	Qty	Description	
①	013398	1	Suction nozzle box	
②	023154	1	Suction hose	
③	012932	2	Camp, worm drive, No. 8.50 [184 - 216]	
④	041499	1	Suction spigot mount	
⑤	022257	1	Grommet 40 x 50 x 4	
⑥	042024	1	Suction spigot	
⑦	043285	3	Suction spigot bolt	
⑧	042693	1	Spring seat washer	
⑨	043286	2	Spring seat locking	
⑩	042694	3	Spring	
⑪	000269	3	Nyloc nut M10, stainless steel	
⑫	000257	2	Set screw M8 x 25, stainless steel	
⑬	000264	4	Plain washer M8, stainless steel	
⑭	000263	2	Nyloc nut M8, stainless steel	

Auto blanking arrangement



Auto blanking from inside the hopper



Auto blanking right hand from inside the locker

Figure 68: Auto blanking arrangement

Item	Part No	Qty	Description	
①			Deflector tube	93,95
②			Blanking lid	93,95
③			Blanking arm left hand	94
④			Blanking arm right hand	96
⑤			Lever auto blanking	94,96
⑥			Auto blanking ram	212

Auto blanking left hand components from inside the hopper

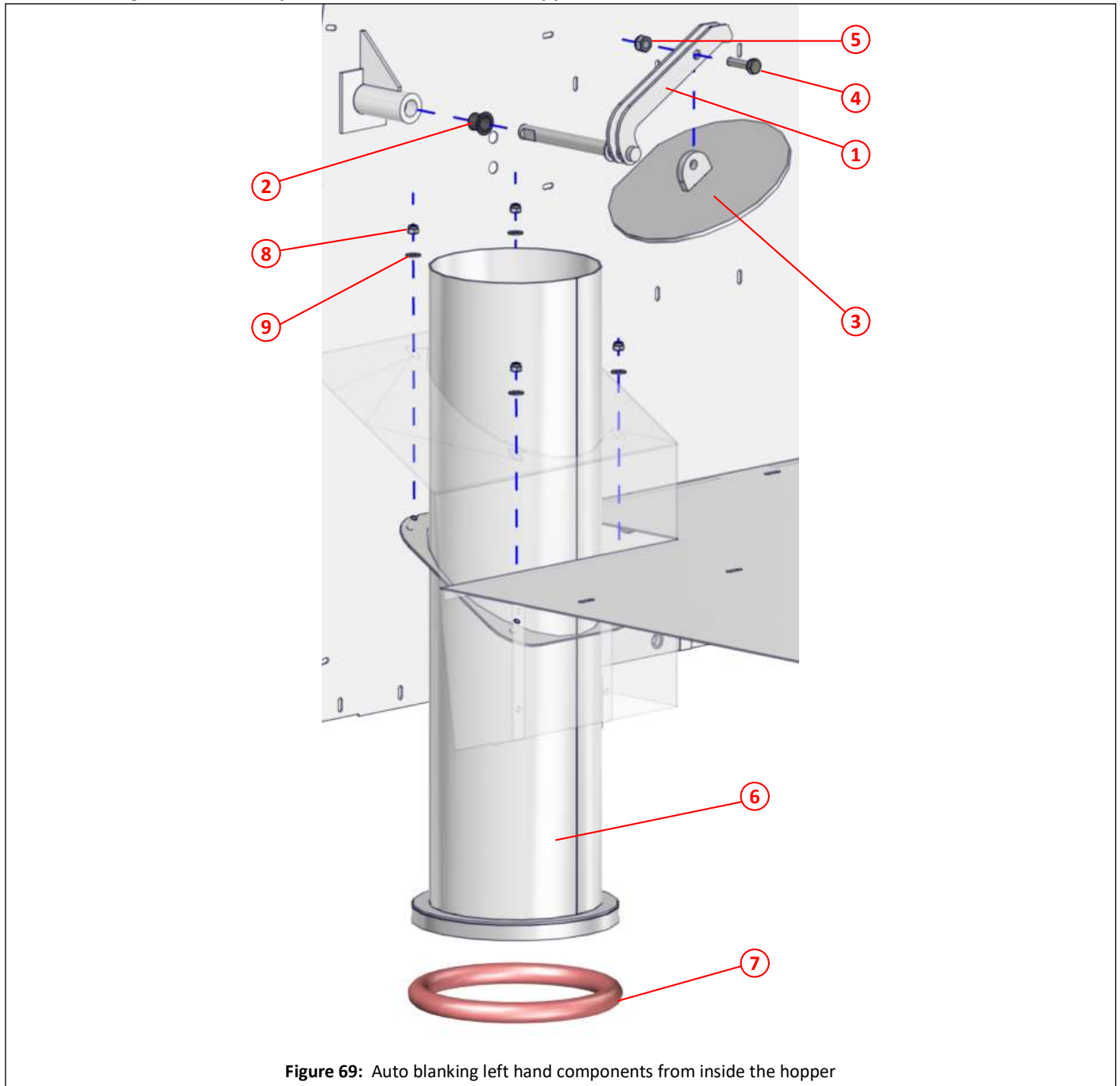


Figure 69: Auto blanking left hand components from inside the hopper

Item	Part No	Qty	Description	
①	041275	1	Blanking arm left hand	
②	013488	2	Bush. Other bush is on the locker side.	
③	041274	1	Blanking lid	
④	000278	1	Set screw M12 x 40, stainless steel	
⑤	000275	1	Nyloc nut M12, stainless steel	
⑥	041264	1	Deflector tube	
⑦	042562	1	Suction spigot seal	
⑧	000263	4	Nyloc nut M8, stainless steel	
⑨	000264	4	Plain washer M8, stainless steel	

Auto blanking left hand components from inside the locker

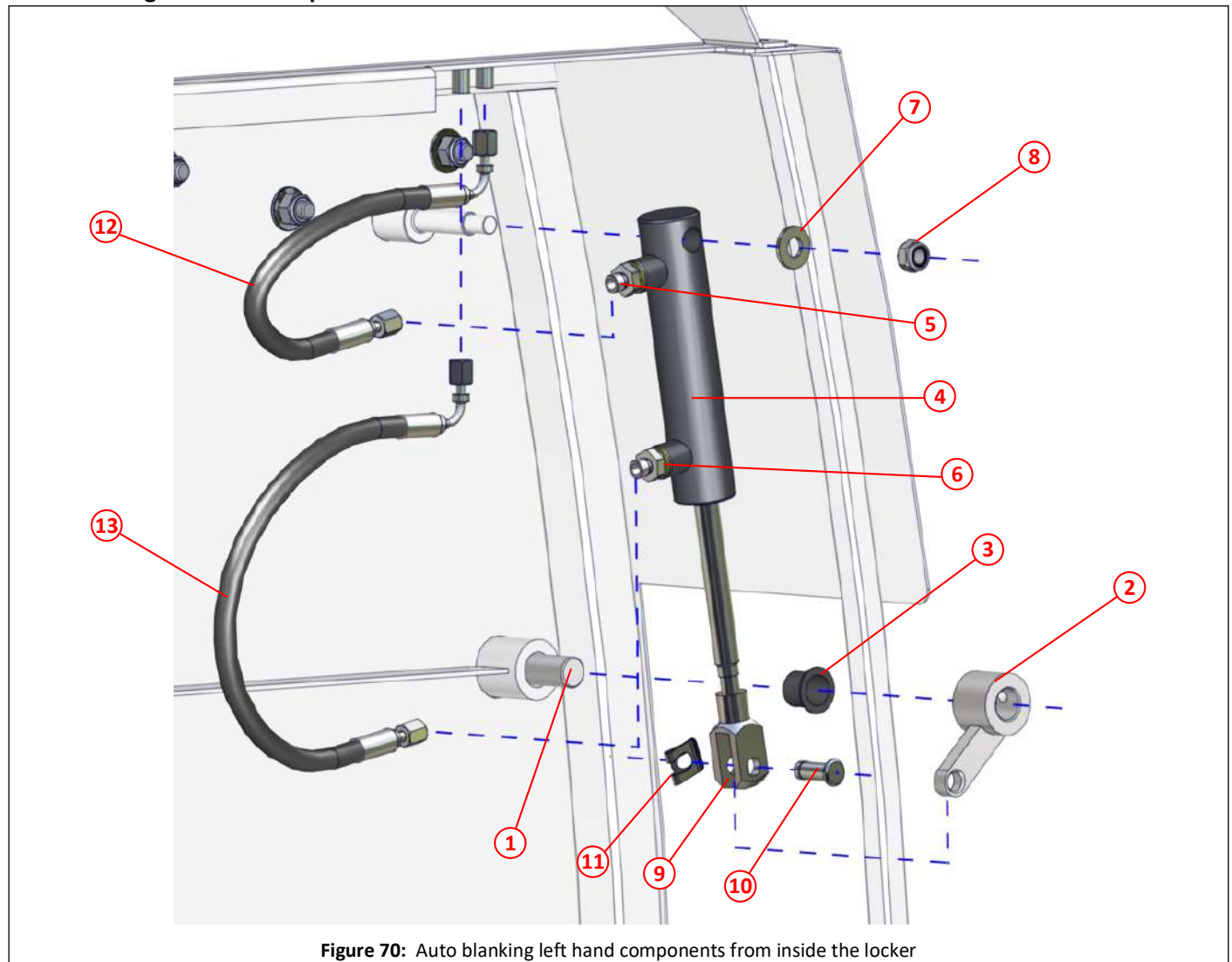


Figure 70: Auto blanking left hand components from inside the locker

Item	Part No	Qty	Description	
①	041275	1	Blanking arm left hand	
②	042570	1	Lever auto blanking	
③	013488	2	Bush. Other bush is on the hopper side.	
④	022350	1	Auto blanking ram	212
⑤	020902	2	Male stud 6mm x 1/4" BSP	
⑥	011152	2	Dowty seal 1/4" BSP	
⑦	011096	1	Plain washer M12	
⑧	011077	1	M12 Nyloc nut	
⑨	014469	1	Clevis	
⑩	023270	1	Clevis pin	
⑪	023269	1	Safety fastener	
⑫	001332	1	Hose 1/4" BSP x 424 long with straight and 90° ends (Close port)	
⑬	001331	1	Hose 1/4" BSP x 469 long with straight and 90° ends (Open port)	

Auto blanking right hand components from inside the hopper

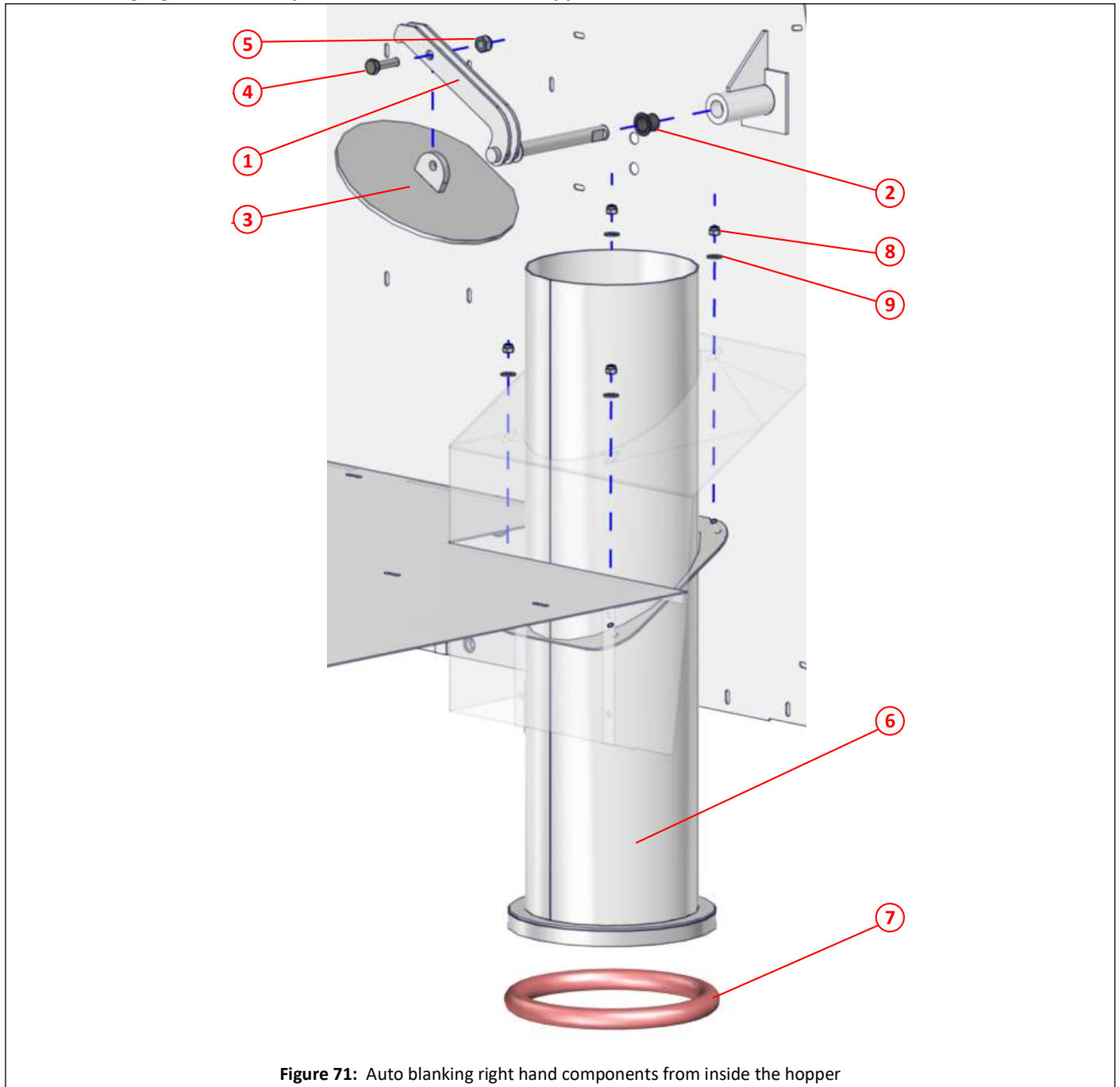


Figure 71: Auto blanking right hand components from inside the hopper

Item	Part No	Qty	Description	
①	041276	1	Blanking arm right hand	
②	013488	2	Bush. Other bush is on the locker side.	
③	041274	1	Blanking lid	
④	000278	1	Set screw M12 x 40, stainless steel	
⑤	000275	1	Nyloc nut M12 x 40, stainless steel	
⑥	041264	1	Deflector tube	
⑦	042562	1	Suction spigot seal	
⑧	000263	4	Nyloc nut M8, stainless steel	
⑨	000264	4	Plain washer M8, stainless steel	

Auto blanking right hand components from inside the locker

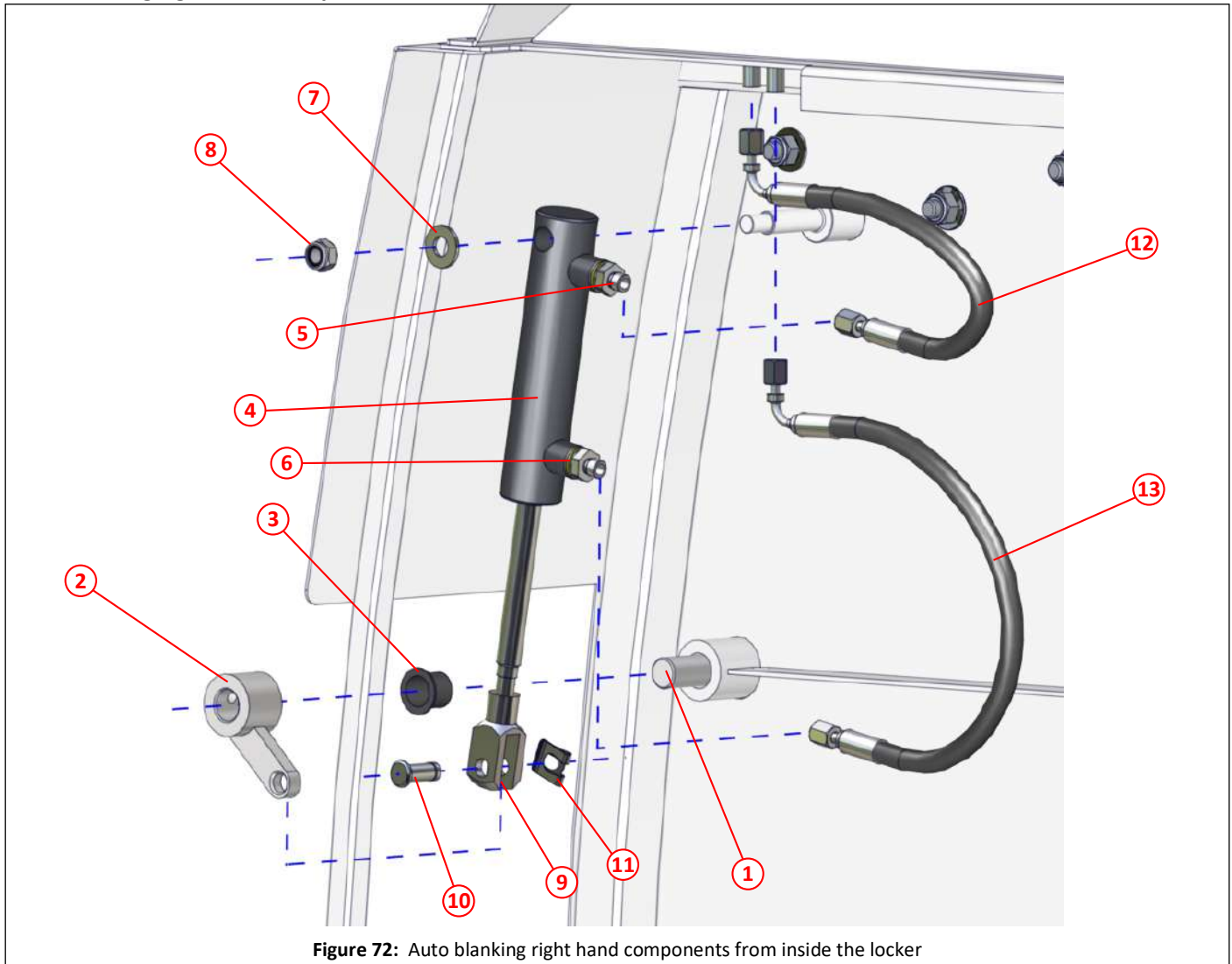


Figure 72: Auto blanking right hand components from inside the locker

Item	Part No	Qty	Description	
①	041276	1	Blanking arm right hand	
②	042570	1	Lever auto blanking	
③	013488	2	Bush. Other bush is on the hopper side	
④	022350	1	Auto blanking ram	212
⑤	020902	2	Male stud 6mm x 1/4" BSP	
⑥	011152	2	Dowty seal 1/4" BSP	
⑦	011096	1	Plain washer M12	
⑧	011077	1	M12 Nyloc nut	
⑨	014469	1	Clevis	
⑩	023270	1	Clevis pin	
⑪	023269	1	Safety fastener	
⑫	001332	1	Hose 1/4" BSP x 424 long with straight and 90° ends (Close port)	
⑬	001331	1	Hose 1/4" BSP x 469 long with straight and 90° ends (Open port)	

Deflectors

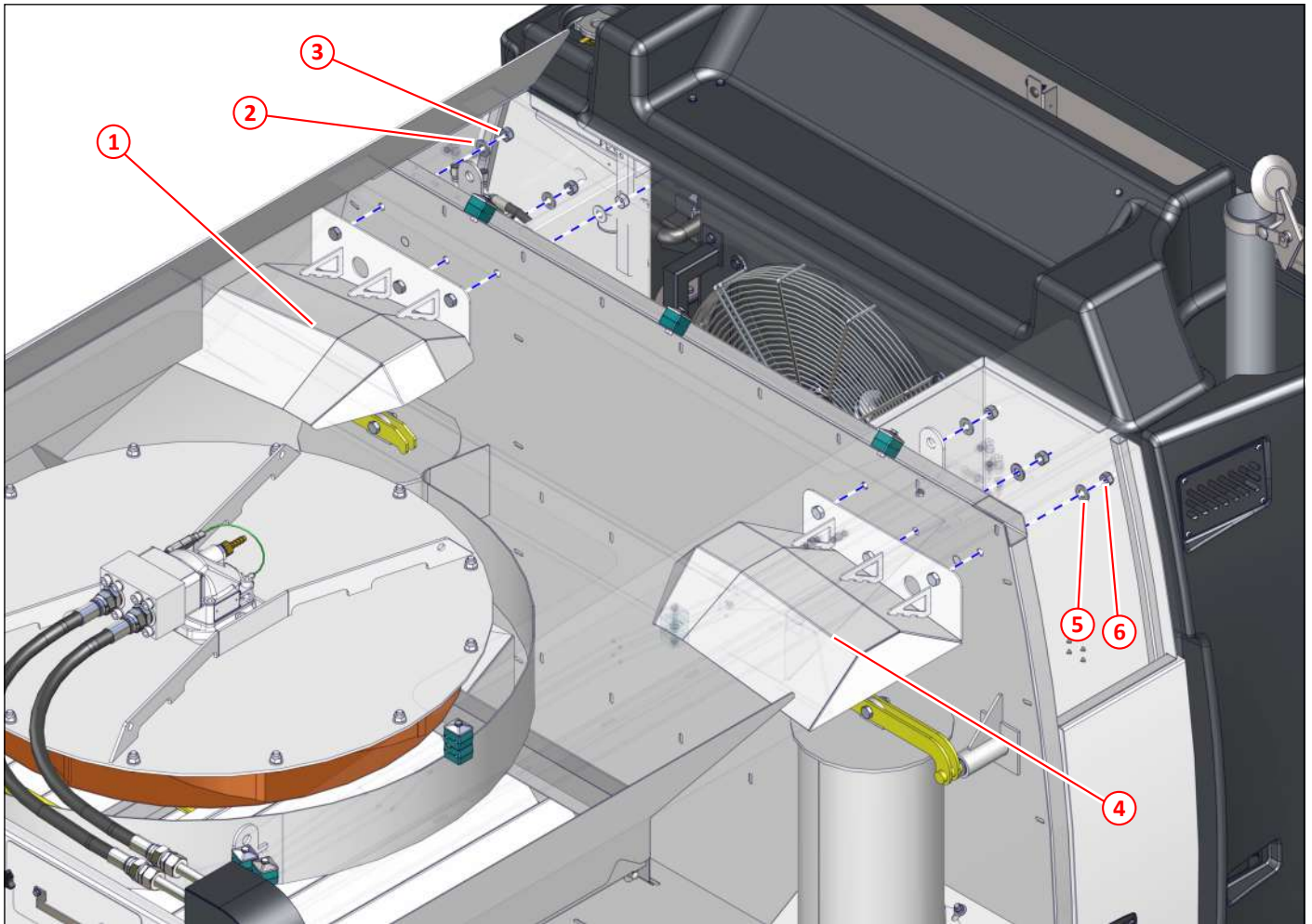


Figure 73: Deflectors

Item	Part No	Qty	Description	
①	043980	1	Deflector, left hand	
②	000277	3	Plain washer M12, stainless steel	
③	000275	3	Nyloc nut, M12 x 1.25, stainless steel	
④	043981	1	Deflector, right hand	
⑤	000277	3	Plain washer M12, stainless steel	
⑥	000275	3	Nyloc nut, M12 x 1.25, stainless steel	

i Dual sweep shown, single sweep will have either a left or right hand deflector.

Wander hose arrangement

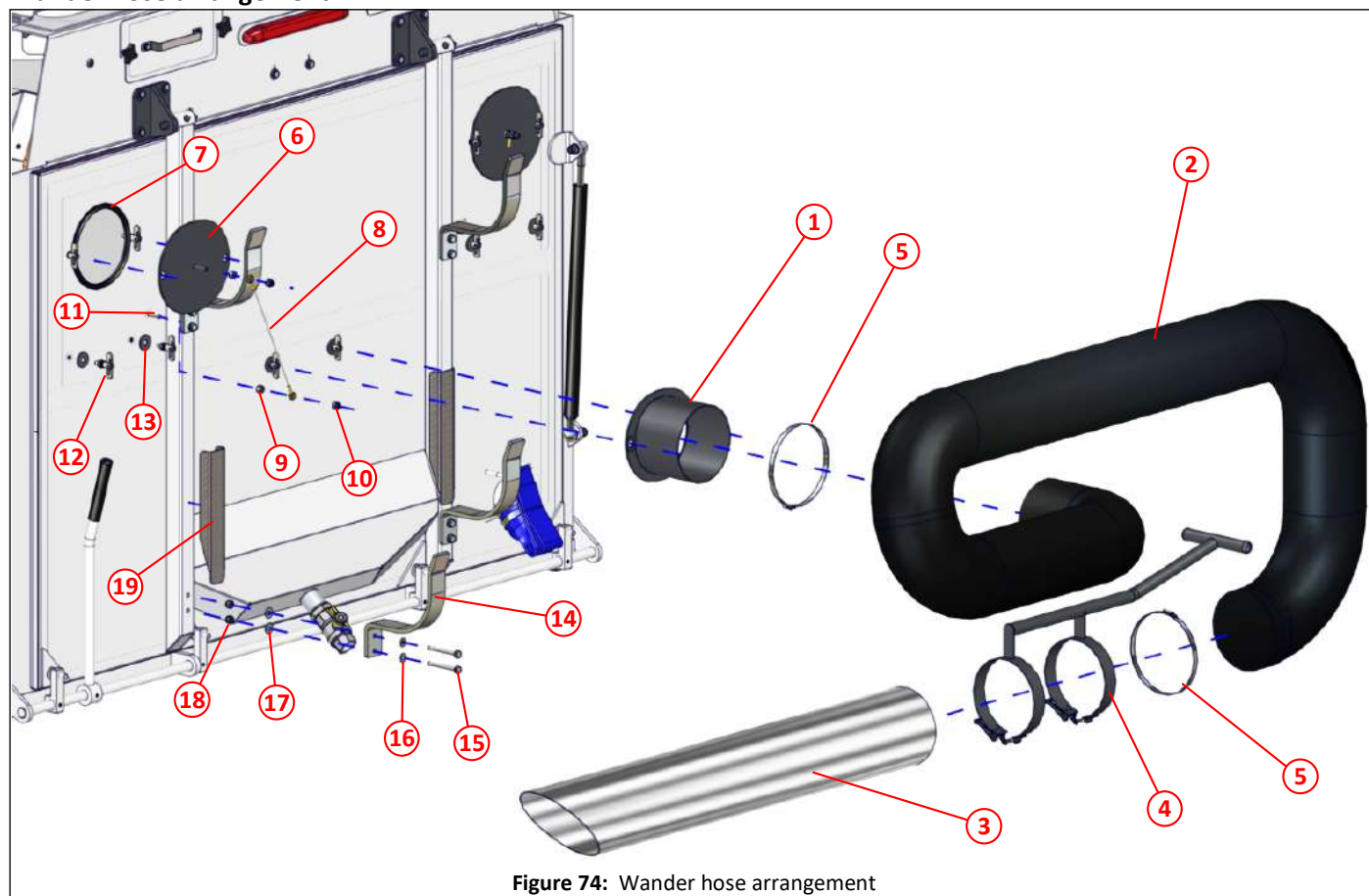


Figure 74: Wander hose arrangement

Item	Part No	Qty	Description	
①	012488	1	Wander hose spigot	
②	010119	1	Wander hose 3 metres	
③	010587	1	Gulley tube for wander hose	
④	010321	1	Handle	
⑤	010519	2	Clamp, worm drive, No. 7 [135 - 165]	
⑥	012486	2	Cap plate	
⑦	025222	2	Titanfast section DX78, length as required	
⑧	020711	2	Cable leash	
⑨	000262	4	Full nut M8, stainless steel	
⑩	000263	4	Nyloc nut M8, stainless steel	
⑪	000258	2	Set screw M8 x 30, stainless steel	
⑫	012253	10	Antiluce drop catch fastener (includes washers and nut)	
⑬	021979	6	Rubber sealing washer $\varnothing 12 \times \varnothing 30 \times 3$	
⑭	010245	4	Hook, wander hose	
⑮	011018	8	Bolt M8 x 70	
⑯	011092	8	Plain washer M8	
⑰	000264	8	Plain washer M8, stainless steel (behind door)	
⑱	000263	8	Nyloc nut M8, stainless steel	
⑲	043388	2	Guard rear door, gulley tube	

i For other rear door components please see "Rear door" (132)

Hoses

List of hydraulic hoses for suction gear.

i For other hoses and pipes please see the hydraulic section, water section and or the relevant section.

Usage	Description	Part No.	Qty
Suction nozzle, left hand			
Lift	Hose $\frac{1}{4}$ " BSP x 265 long with straight and 90° ends	001291	1
Tilt	Hose $\frac{1}{4}$ " BSP x 500 long with straight and 90° ends	001286	1
Suction nozzle, right hand			
Lift	Hose $\frac{1}{4}$ " BSP x 265 long with straight and 90° ends	001291	1
Tilt	Hose $\frac{1}{4}$ " BSP x 500 long with straight and 90° ends	001286	1
Auto blanking			
Ram close port, in locker	Hose $\frac{1}{4}$ " BSP x 424 long with straight and 90° ends	001332	2
Ram open port, in locker	Hose $\frac{1}{4}$ " BSP x 469 long with straight and 90° ends	001331	2
To chassis right hand	Hose $\frac{1}{4}$ " BSP x 639 long with straight and 90° ends	001330	1
To chassis left hand	Hose $\frac{1}{4}$ " BSP x 589 long with straight and 90° ends	001333	1

Suction fan

<i>Description</i>	<i>Page</i>
Suction fan assembly	102
Fan motor assembly	103
Suction fan inlet cone and guard	104
Suction fan screen	105
Hoses	106

Suction fan assembly

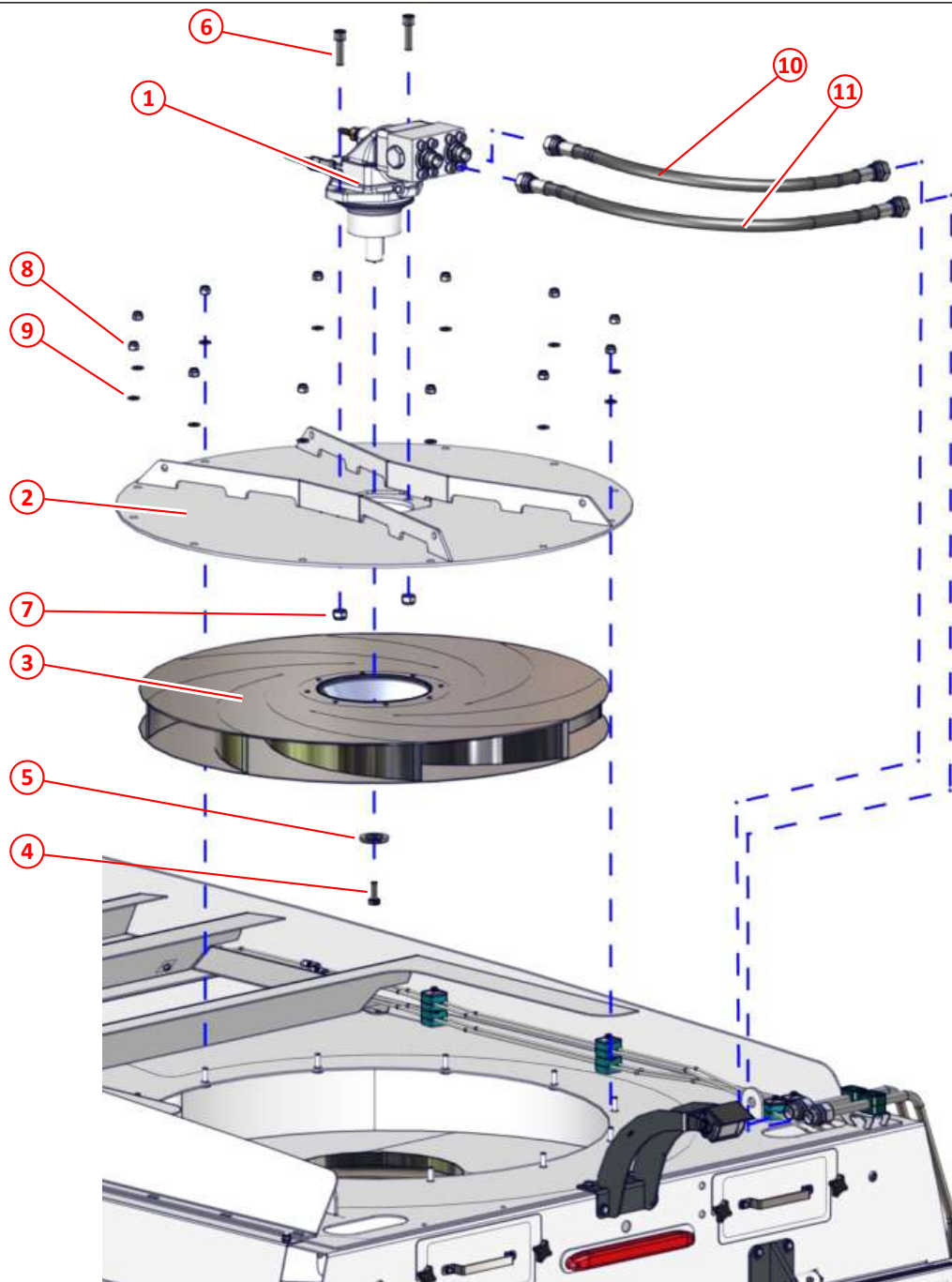


Figure 75: Suction fan assembly

Item	Part No	Qty	Description	
①	025564	1	Fan motor assembly	103,110
②	034726	1	Fan plate	110
③	038569	1	Stainless steel impeller	
④	011052	1	Fan mounting bolt, set screw M12 x 30	
⑤	024791	1	Cap washer VOAC motor	
⑥	000423	2	Socket cap screw M14 x 45 black	
⑦	011127	2	M14 Nyloc nut	
⑧	000269	12	Nyloc nut M10, stainless steel	
⑨	000270	12	Plain washer M10, stainless steel	
⑩	013005	1	Hose $\frac{5}{8}$ " BSP x 680 with $\frac{3}{4}$ " straight ends	
⑪	001297	1	Hose $\frac{5}{8}$ " BSP x 770 with $\frac{3}{4}$ " straight ends	
NI	039331	1	Fan scraper M25H, stored in side locker	

Fan motor assembly

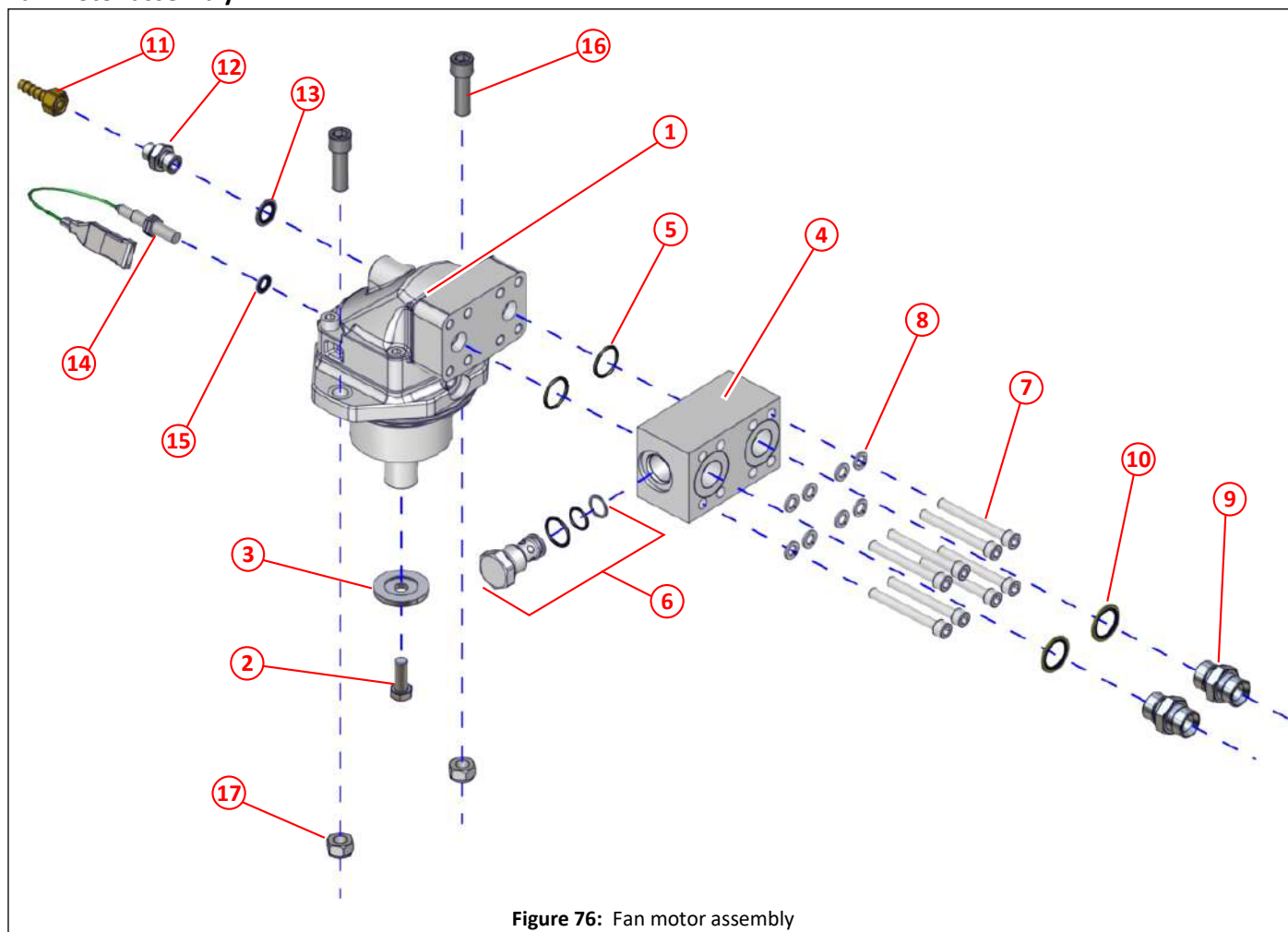
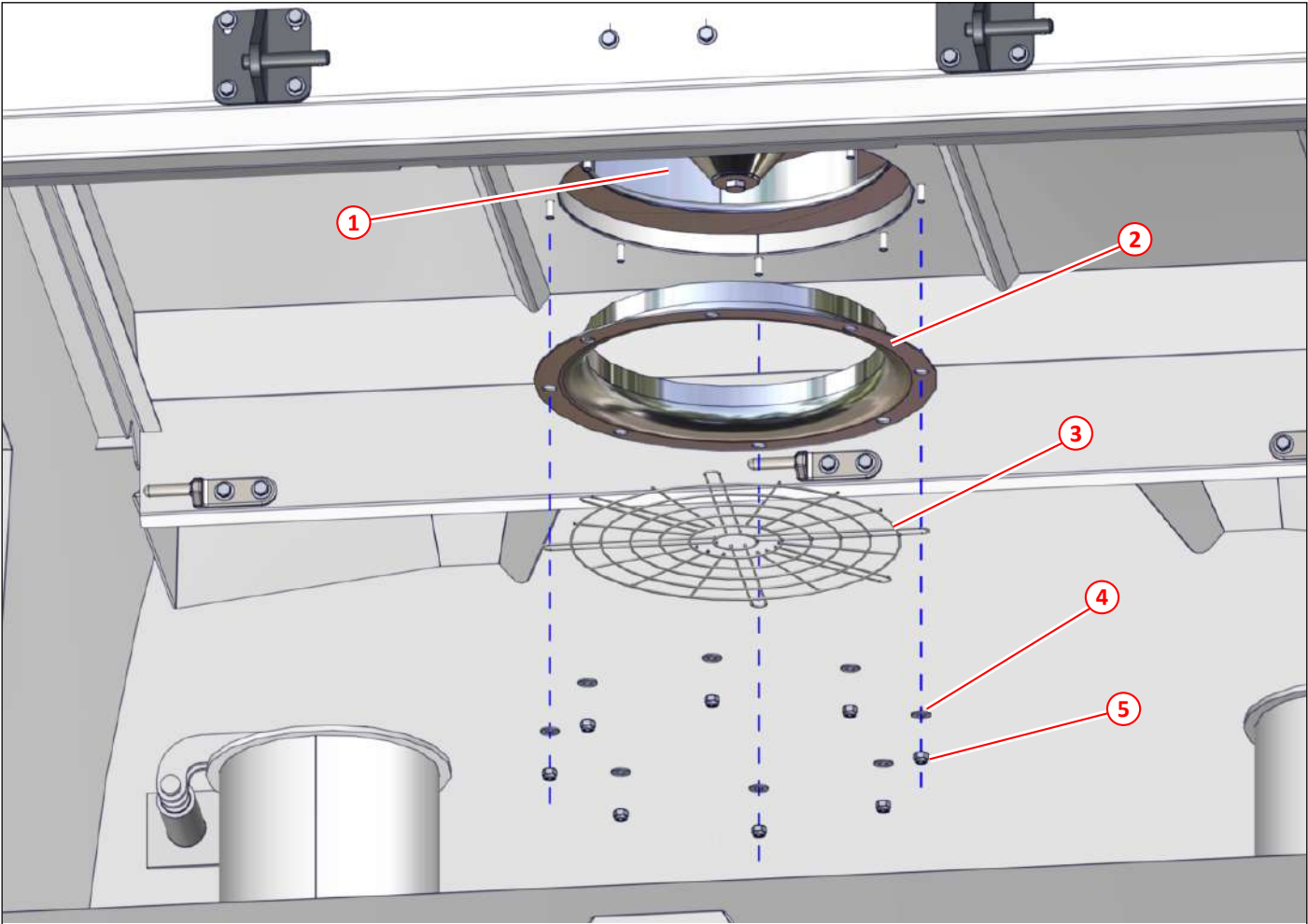


Figure 76: Fan motor assembly

Item	Part No	Qty	Description	
①	024641	1	Fan motor	189
②	011052	1	Fan mounting bolt, set screw M12 x 30	
③	024791	1	Cap washer VOAC motor	
④	041633*	1	Manifold, anti cavitation valve	
⑤	041634*	2	'O'-ring	
⑥	041635*	1	Check valve with seals and washer	
⑦	000048	8	Socket cap screw M10 x 80	
⑧	011095	8	Spring washer M10	
⑨	011161	2	Adapter $\frac{3}{4}$ " BSP	
⑩	011155	2	Dowty seal $\frac{3}{4}$ " BSP	
⑪	010921	1	Hose stem and nut $\frac{3}{8}$ " BSP x $\frac{3}{8}$ " hose	
⑫	011248	1	Adapter M18 x $\frac{3}{8}$ " BSP	
⑬	011247	1	Dowty seal M18	
⑭	025184	1	Speed sensor	
⑮	011215	1	Dowty seal M12	
⑯	000423	2	Socket cap screw M14 x 45 black	
⑰	011127	2	M14 Nyloc nut	
*	041564	1	Anti cavitation valve assembly, consists of items ④, ⑤ and ⑥	

Suction fan inlet cone and guard



i Shown with the suction fan screen removed.

Figure 77: Suction fan inlet cone and guard

Item	Part No	Qty	Description	
①	038569	1	Stainless steel impeller	102
②	038568	1	Stainless steel inlet cone	
③	039674	1	Guard	
④	000264	8	Plain washer M8, stainless steel	
⑤	000263	8	Nyloc nut M8, stainless steel	

Suction fan screen



Suction fan screen lowered on its tethers

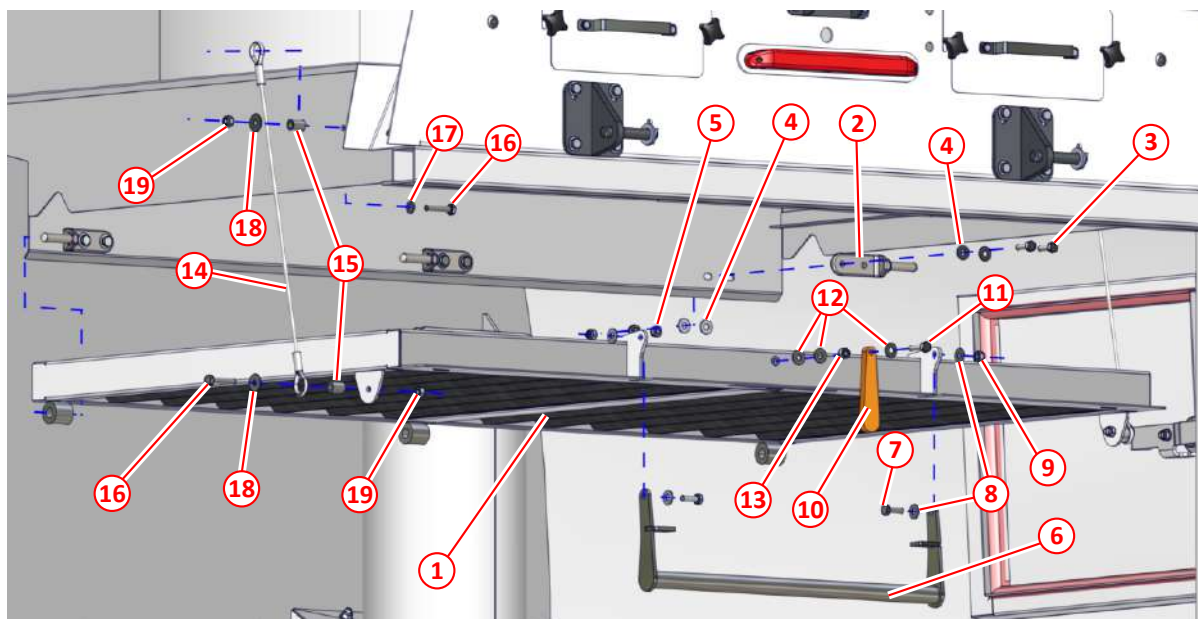


Figure 78: Suction fan screen

Item	Part No	Qty	Description	
①	043156	1	Stainless steel screen	
②	025245	3	Gudgeon	
③	000257	6	Set screw M8 x 25, stainless steel	
④	000264	12	Plain washer M8, stainless steel	
⑤	000263	6	Nyloc nut M8, stainless steel	
⑥	041266	1	Screen handle	
⑦	000257	2	Set screw M8 x 25, stainless steel	
⑧	000264	4	Plain washer M8, stainless steel	
⑨	000263	2	Nyloc nut M8, stainless steel	
⑩	041267	1	Screen safety stop	
⑪	000258	1	Set screw M8 x 30, stainless steel	
⑫	000264	3	Plain washer M8, stainless steel	
⑬	000262	1	Full nut M8, stainless steel	
⑭	044192	2	Tether, screen	
⑮	034280	4	Spacer $\varnothing 9 \times \varnothing 15 \times 21$	
⑯	011014	4	Set screw M8 x 40	
⑰	000419	2	Plain washer M8 x 17	
⑱	000407	4	Repair washer M8, plated	
⑲	000263	4	Nyloc nut M8, stainless steel	

Suction fan

Hoses

List of hydraulic hoses for suction fan.

i For other hoses and pipes please see the hydraulic section, water section and or the relevant section.

Usage	Description	Part No.	Qty
Suction fan anti cavitation valve			
Port A	Hose $\frac{5}{8}$ " BSP x 770 with $\frac{3}{4}$ " straight ends	001297	1
Port B	Hose $\frac{5}{8}$ " BSP x 680 with $\frac{3}{4}$ " straight ends	013005	1

Hopper and body

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Water tank level	125
Water tank breather, early version	126
Water tank breather	127
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Rear door	132
Rear door locking	133
Rear door gas strut	134
Gantry cover left hand side	135
Gantry cover right hand side	136
Gantry cover top	137

Hopper and body general arrangement, left side

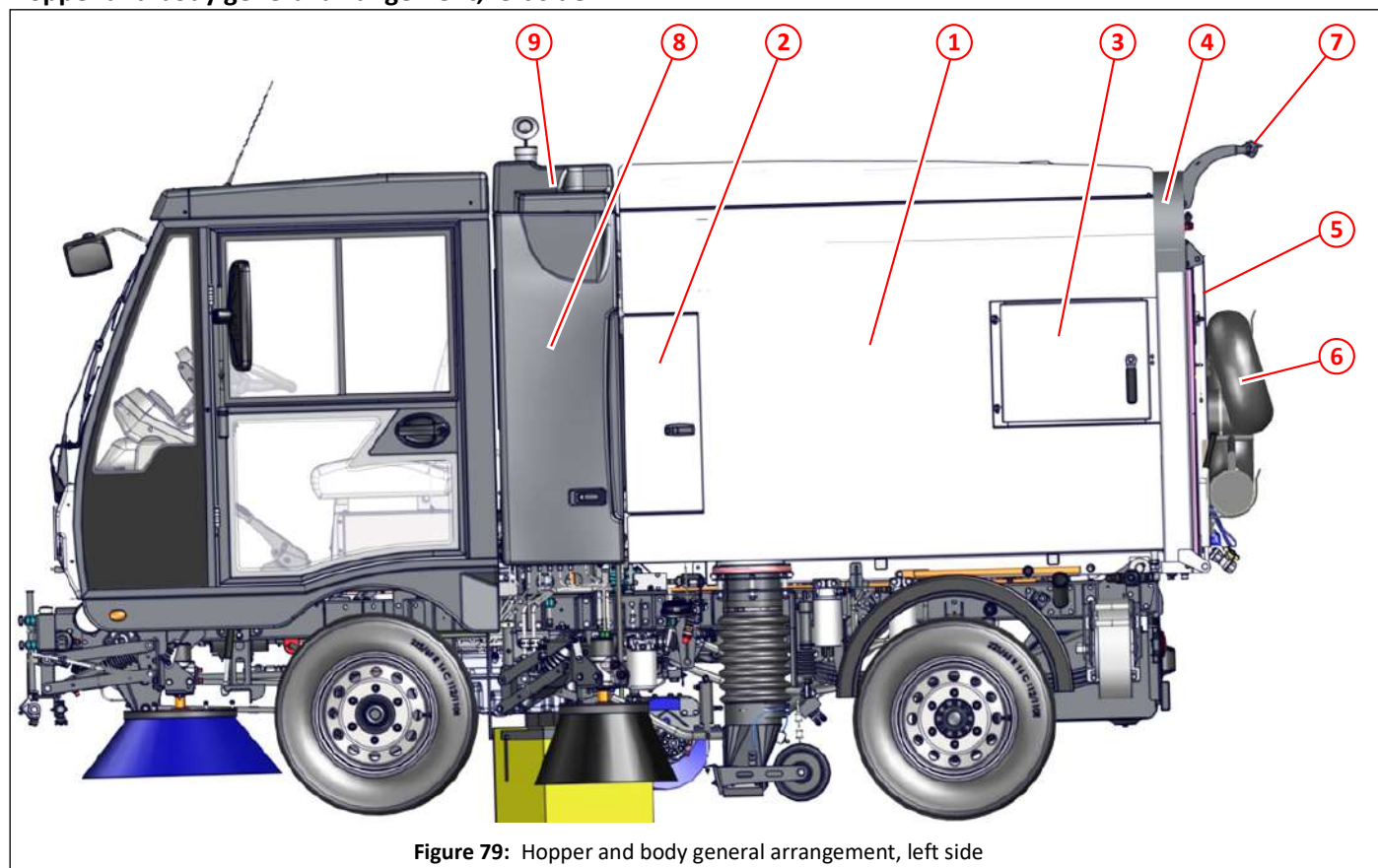


Figure 79: Hopper and body general arrangement, left side

Item	Part No	Qty	Description	
①	041257	1	Hopper	
②	041259	1	Left side locker door	114
③	041261	1	Side access hatch	115
④	042565	1	Capping left hand side	117
⑤	042582	1	Hopper rear door assembly	111
⑥	015033	1	Standard wander hose assembly	98
⑦	040354	1	Rear view camera	120
⑧	042138	1	Gantry cover left hand side	135
⑨	042143	1	Gantry cover top	137

Hopper and body general arrangement, right side

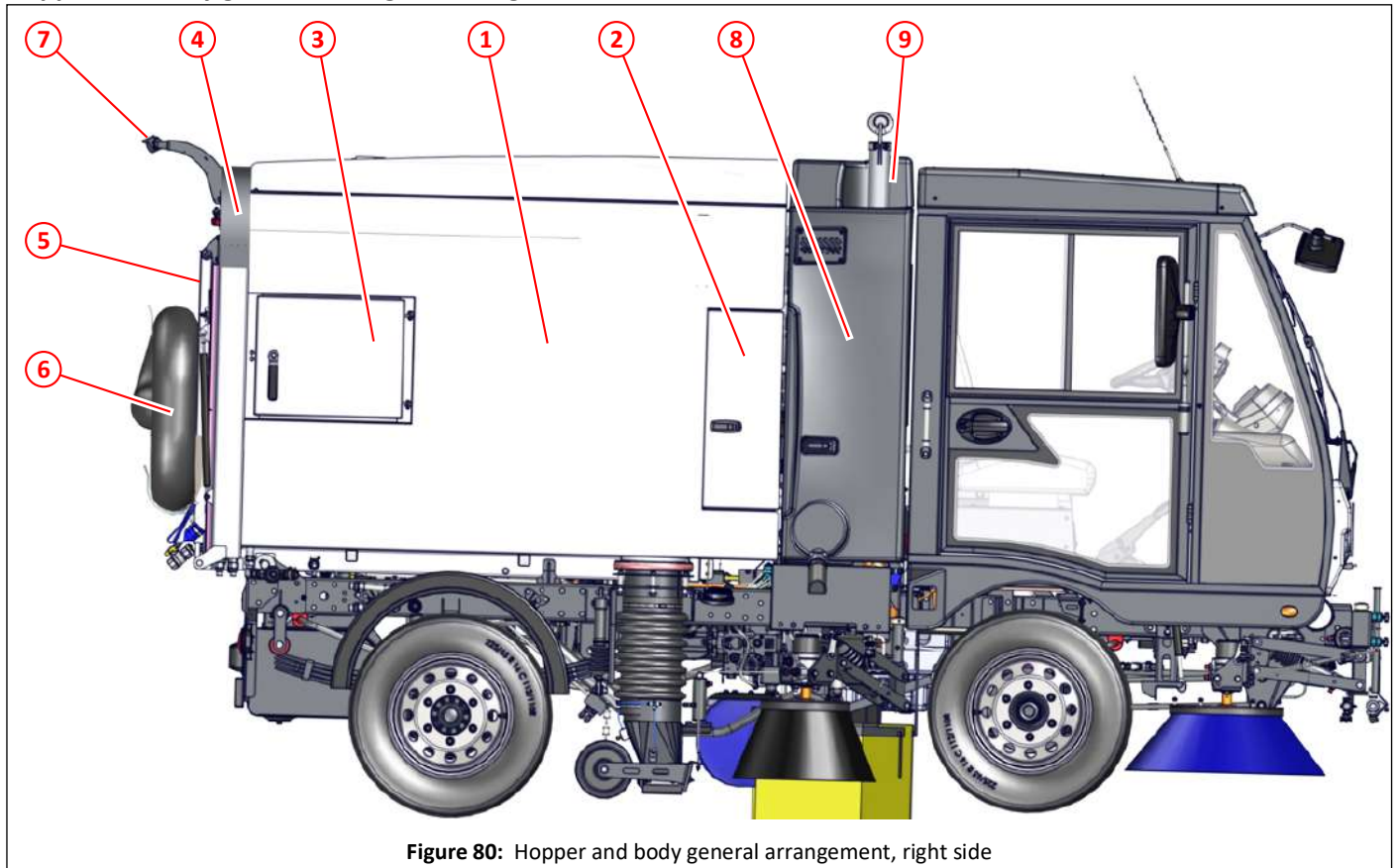


Figure 80: Hopper and body general arrangement, right side

Item	Part No	Qty	Description	
①	041257	1	Hopper	
②	041260	1	Right side locker door	114
③	041261	1	Side access hatch	116
④	042566	1	Capping right hand side	117
⑤	042582	1	Hopper rear door assembly	111
⑥	015033	1	Standard wander hose assembly	98
⑦	040354	1	Rear view camera	120
⑧	042141	1	Gantry cover right hand side	136
⑨	042143	1	Gantry cover top	137

Hopper and body general arrangement, top



Figure 81: Hopper and body general arrangement, top

Item	Part No	Qty	Description	
①	041257	1	Hopper	
②	041259	1	Left side locker door	114
③	041261	1	Side access hatch	115
④	042138	1	Gantry cover left hand side	135
⑤	042143	1	Gantry cover top	137
⑥	025564	1	Fan motor assembly	102,103
⑦	034726	1	Fan plate	102
⑧	042582	1	Hopper rear door assembly	132
⑨	015033	1	Standard wander hose assembly	98
⑩	040354	1	Rear view camera	120

Hopper and body general arrangement, rear

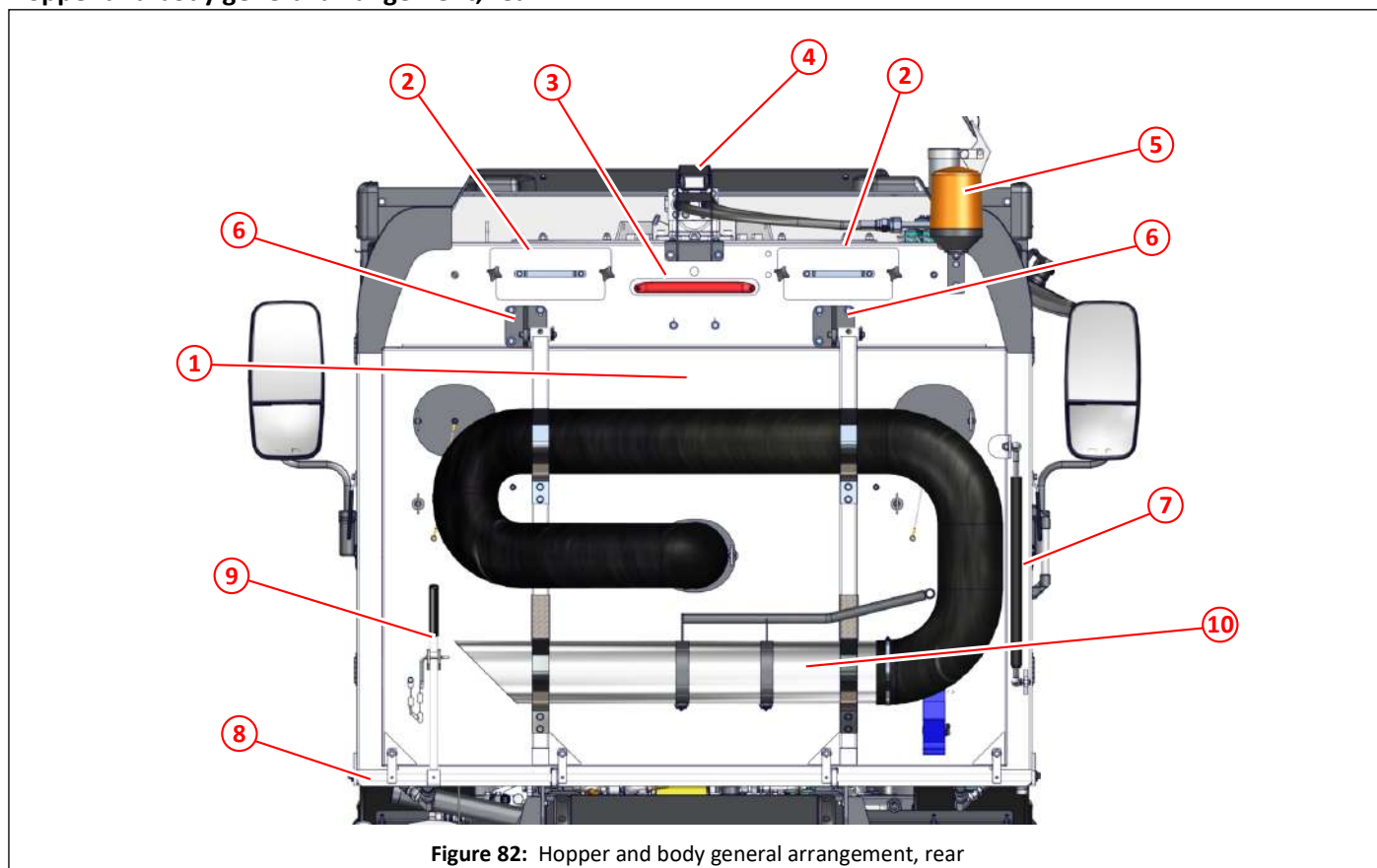
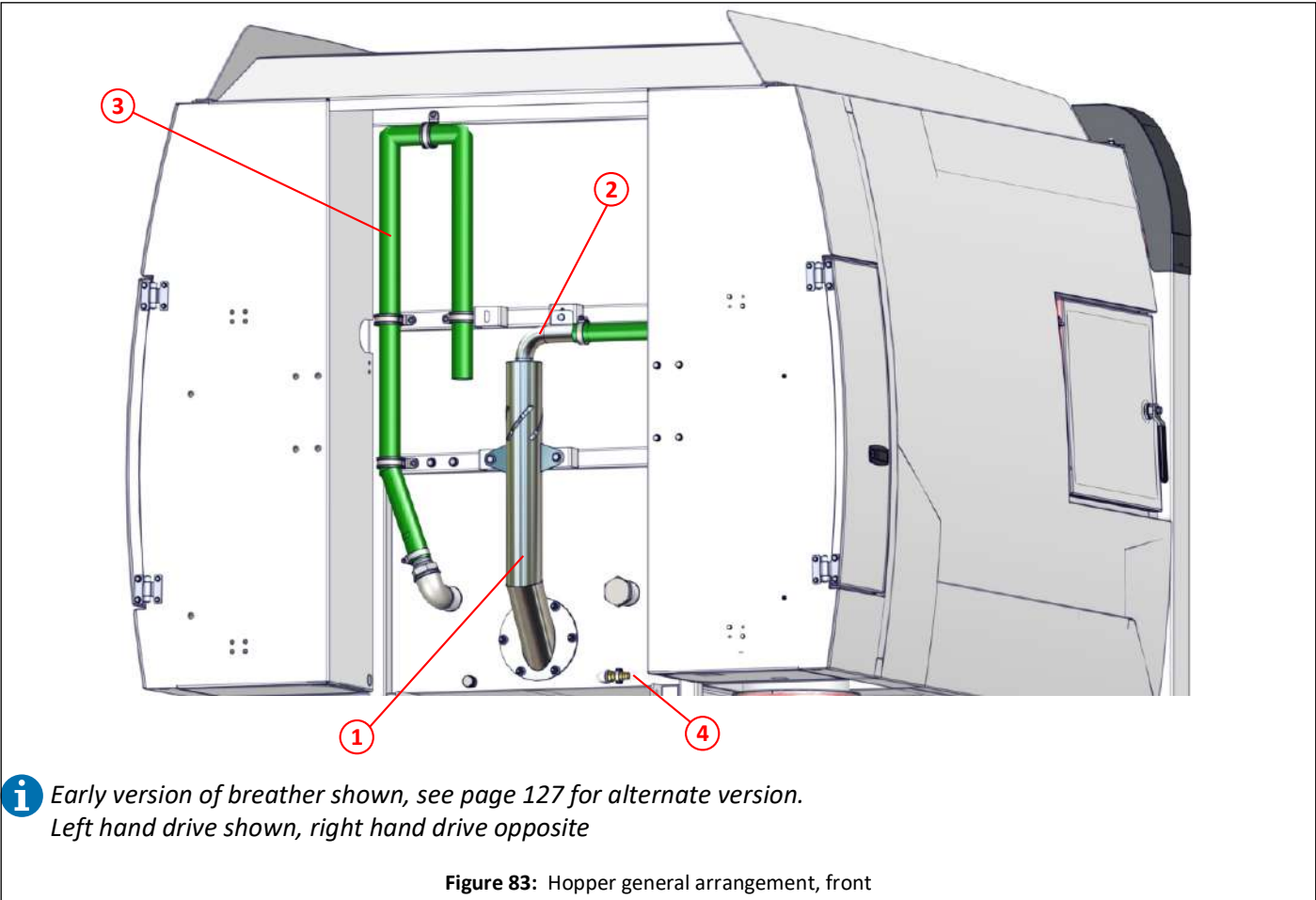


Figure 82: Hopper and body general arrangement, rear

Item	Part No	Qty	Description	
①	042582	1	Hopper rear door assembly	132
②	037852	2	Inspection cover, outer	118
③	039336	1	High level brake light	121
④	040354	1	Rear view camera	120
⑤	010304	1	Rear beacon	122
⑥	025262	2	Rear door hinge	128
⑦	042569	1	Gas strut rear door	134
⑧	041278	1	Locking bar, rear door	133
⑨	014995	1	Handle hopper door	133
⑩	015033	1	Standard wander hose assembly	98

Hopper general arrangement, front



Item	Part No	Qty	Description	
①	042558	1	Water tank filler	124,141
②	042561	1	Filler pipe	124,141
③	001045	1.5m	Breather hose, green $\phi 1\frac{1}{2}$ " ID	126,143
④	034465	1.5m	Water level sight tube, $\frac{5}{8}$ " clear PVC tube	125,142

Hopper general arrangement, underneath

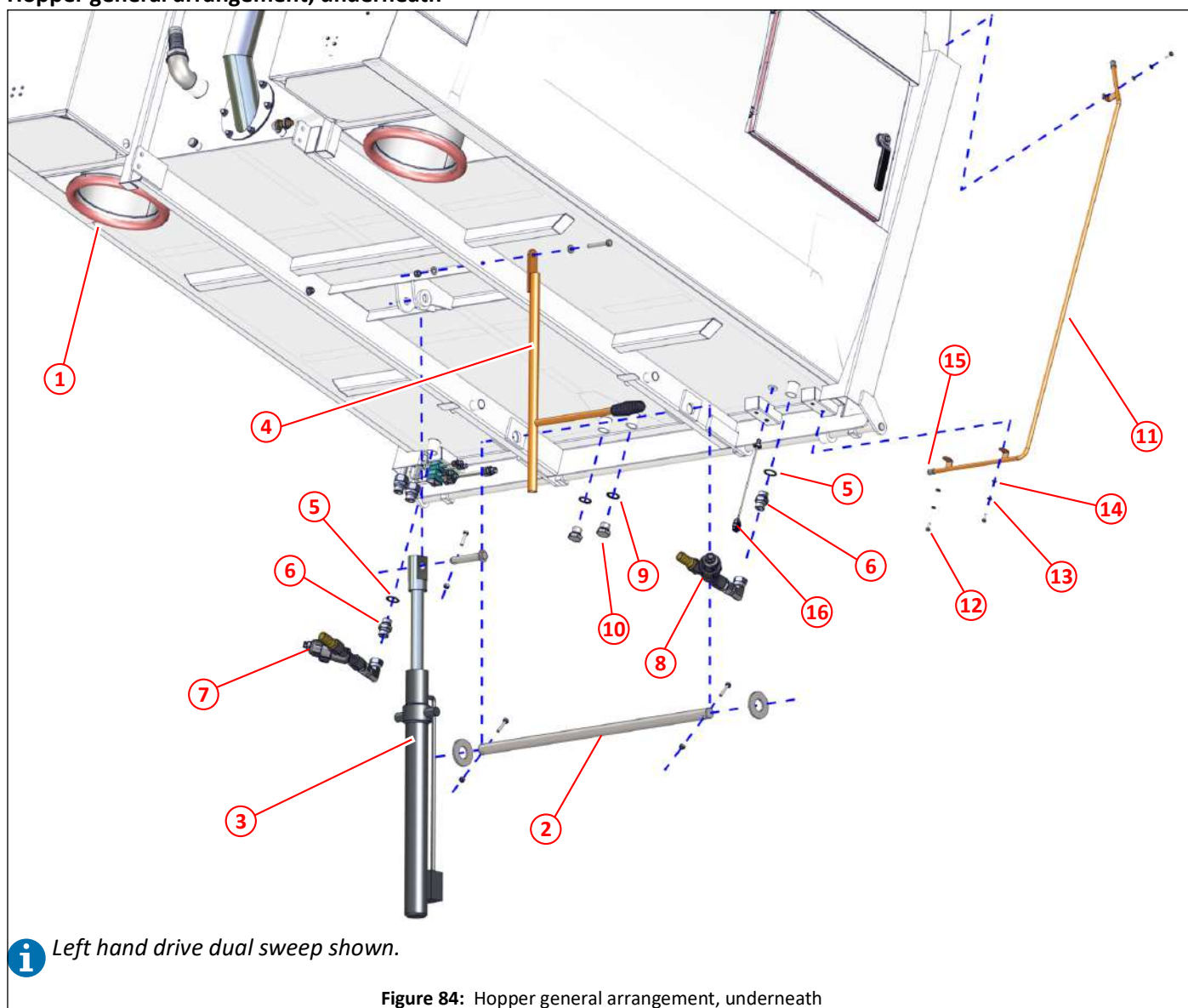
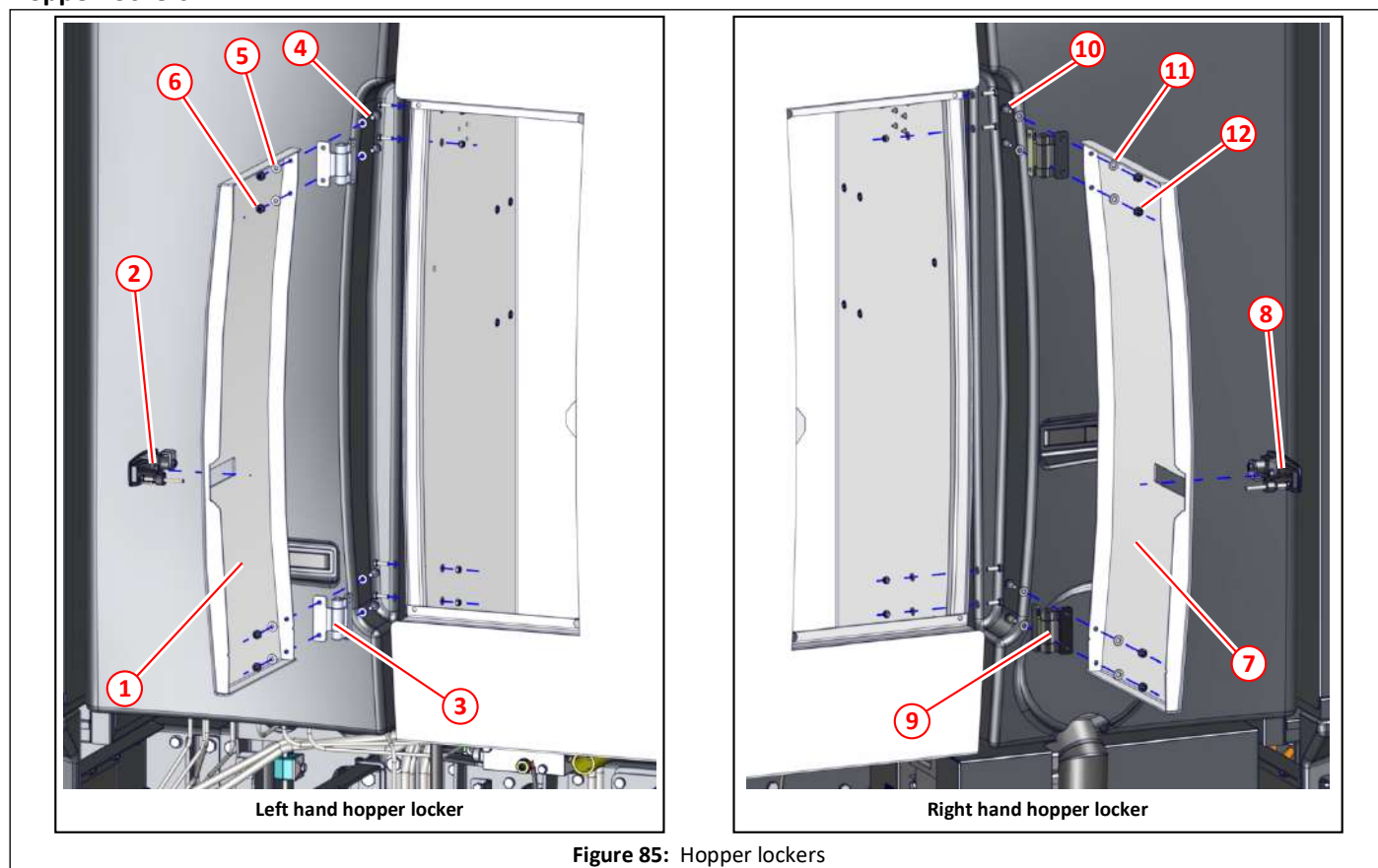


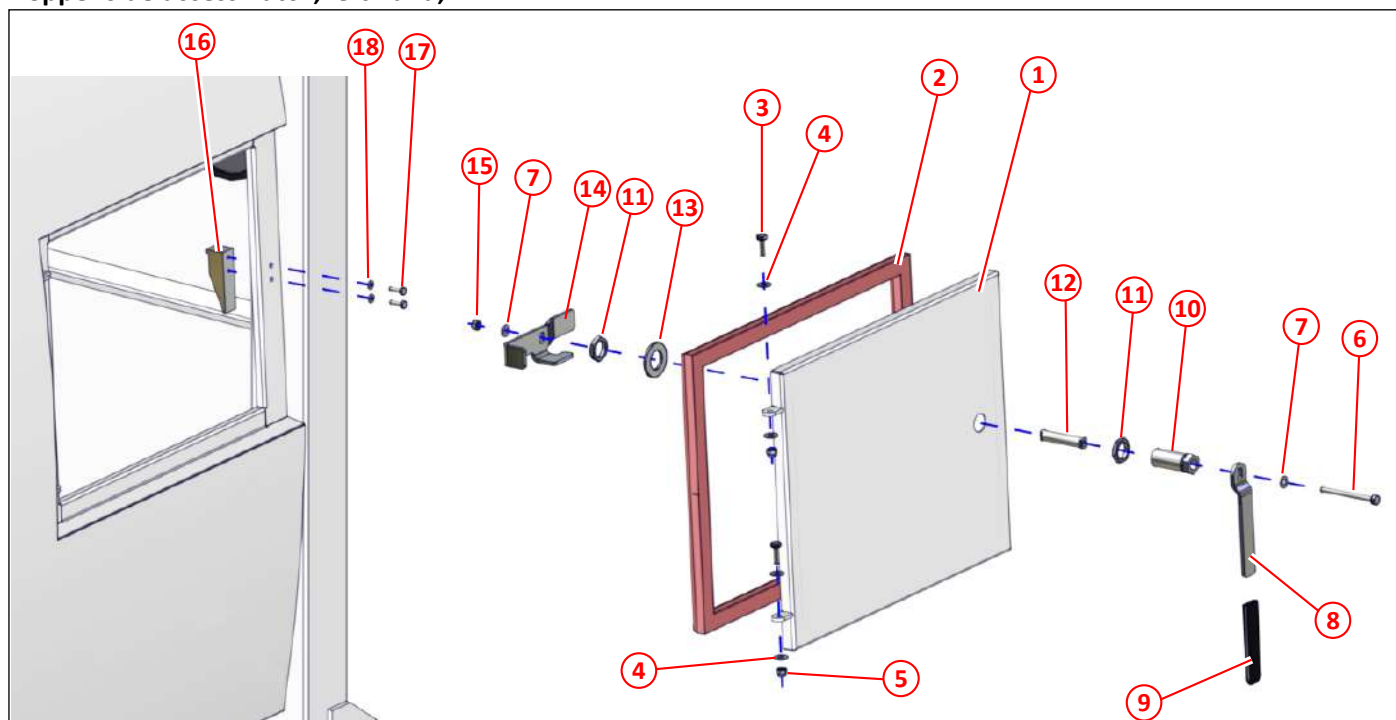
Figure 84: Hopper general arrangement, underneath

Item	Part No	Qty	Description	
①	042562	1	Suction spigot seal. One required per spigot.	
②	011640	1	Hopper hinge pin	128
③	036382	1	Hopper ram	129
④	042619	1	Hopper safety prop	130
⑤	011155	2	Dowty seal $\frac{3}{4}$ " BSP	
⑥	011161	2	Adapter $\frac{3}{4}$ " BSP	
⑦	043354	1	Water filter assembly for low pressure water	140
⑧	043353	1	Water filter assembly for high pressure water	140
⑨	011155	2	Dowty seal $\frac{3}{4}$ " BSP	
⑩	011244	2	Plug $\frac{3}{4}$ " BSP	
⑪	043260	1	Hopper loom rail	
⑫	011001	3	Set screw M6 x 16	
⑬	011091	3	Spring washer M6	
⑭	011090	3	Plain washer M6	
⑮	043065	2	Pipe cap	
⑯	043250	1	Water sensor and lead	140

Hopper lockers



Item	Part No	Qty	Description	
①	041259	1	Hopper locker door left hand	
②	033115	1	Locking latch	
③	028583	2	Hinge	
④	000052	8	Bolt M5 x 16	
⑤	000410	16	Washer M5	
⑥	000155	8	Nyloc nut M5	
⑦	041260	1	Hopper locker door right hand	
⑧	033115	1	Locking latch	
⑨	028583	2	Hinge	
⑩	000052	8	Bolt M5 x 16	
⑪	000410	16	Washer M5	
⑫	000155	8	Nyloc nut M5	

Hopper side access hatch, left hand,

Figure 86: Hopper side access hatch, left hand

Item	Part No	Qty	Description	
①	041261	1	Side access hatch	
②	042594	1	Seal	
③	000257	2	Set screw M8 x 25, stainless steel	
④	000264	4	Plain washer M8, stainless steel	
⑤	000263	2	Nyloc nut M8, stainless steel	
⑥	011019	1	Bolt M8 x 90	
⑦	011092	2	Plain washer M8	
⑧	027933	1	Handle	
⑨	040032	1	Handle sleeve	
⑩	027935	1	Door catch bearing	
⑪	027937	2	Back nut $\frac{3}{4}$ "	
⑫	027934	1	Door catch spindle	
⑬	000121	1	Plain washer M27	
⑭	040033	1	Door catch with stop, left hand	
⑮	011073	1	Nyloc nut M8	
⑯	027932	1	Door striker	
⑰	000252	2	Set screw M6 x 20, stainless steel	
⑱	000254	2	Plain washer M6, stainless steel	

Hopper side access hatch, right hand

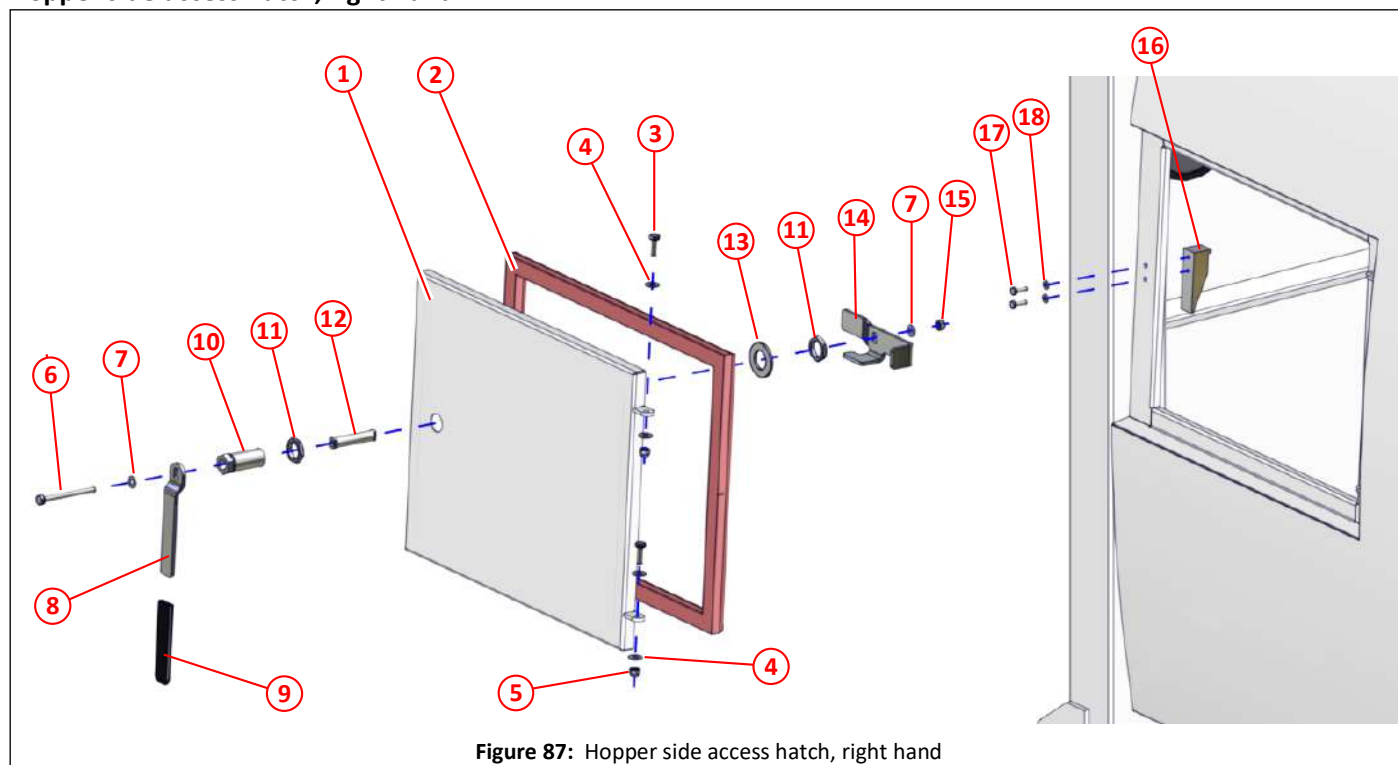
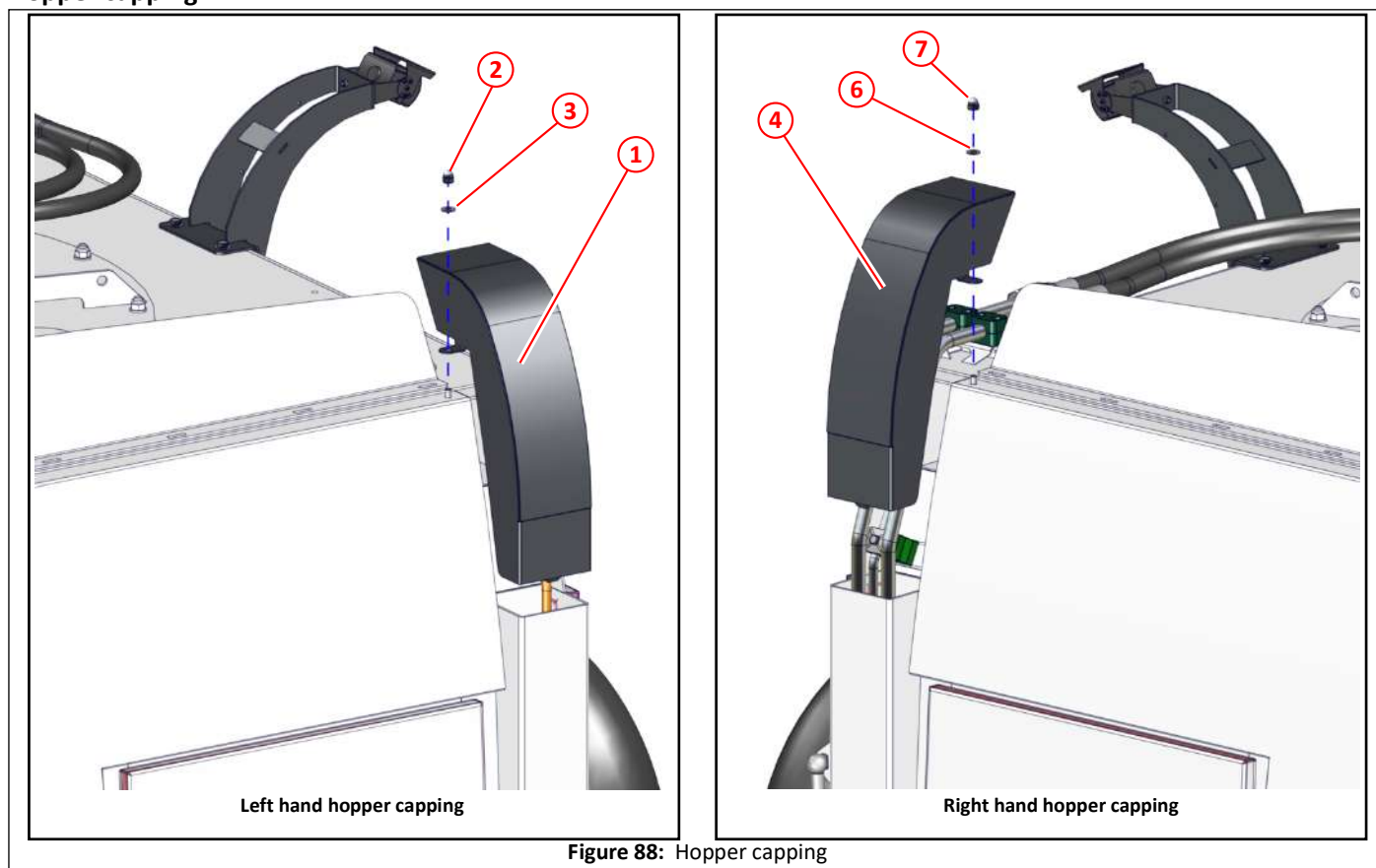


Figure 87: Hopper side access hatch, right hand

Item	Part No	Qty	Description	
①	041261	1	Side access hatch	
②	042594	1	Seal	
③	000257	2	Set screw M8 x 25, stainless steel	
④	000264	4	Plain washer M8, stainless steel	
⑤	000263	2	Nyloc nut M8, stainless steel	
⑥	011019	1	Bolt M8 x 90	
⑦	011092	2	Plain washer M8	
⑧	027933	1	Handle	
⑨	040032	1	Handle sleeve	
⑩	027935	1	Door catch bearing	
⑪	027937	2	Back nut $\frac{3}{4}$ "	
⑫	027934	1	Door catch spindle	
⑬	000121	1	Plain washer M27	
⑭	040034	1	Door catch with stop, right hand	
⑮	011073	1	Nyloc nut M8	
⑯	027932	1	Door striker	
⑰	000252	2	Set screw M6 x 20, stainless steel	
⑱	000254	2	Plain washer M6, stainless steel	

Hopper capping



Item	Part No	Qty	Description	
①	042565	1	Left hand hopper capping	
②	000089	1	Dome nut M8	
③	011092	1	Plain washer M8	
④	042566	1	Right hand hopper capping	
⑤	000089	1	Dome nut M8	
⑥	011092	1	Plain washer M8	

Hopper inspection cover, outer

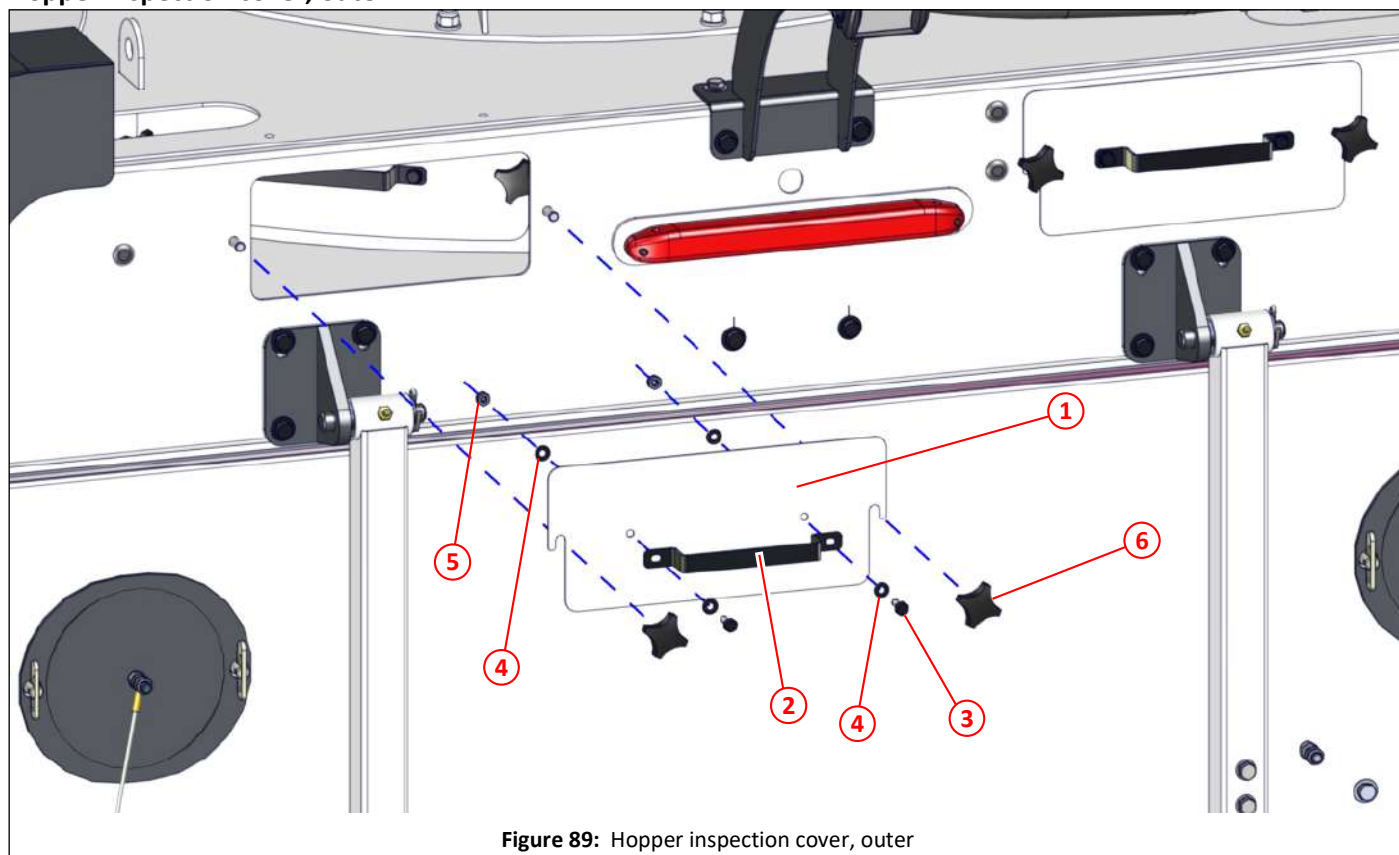
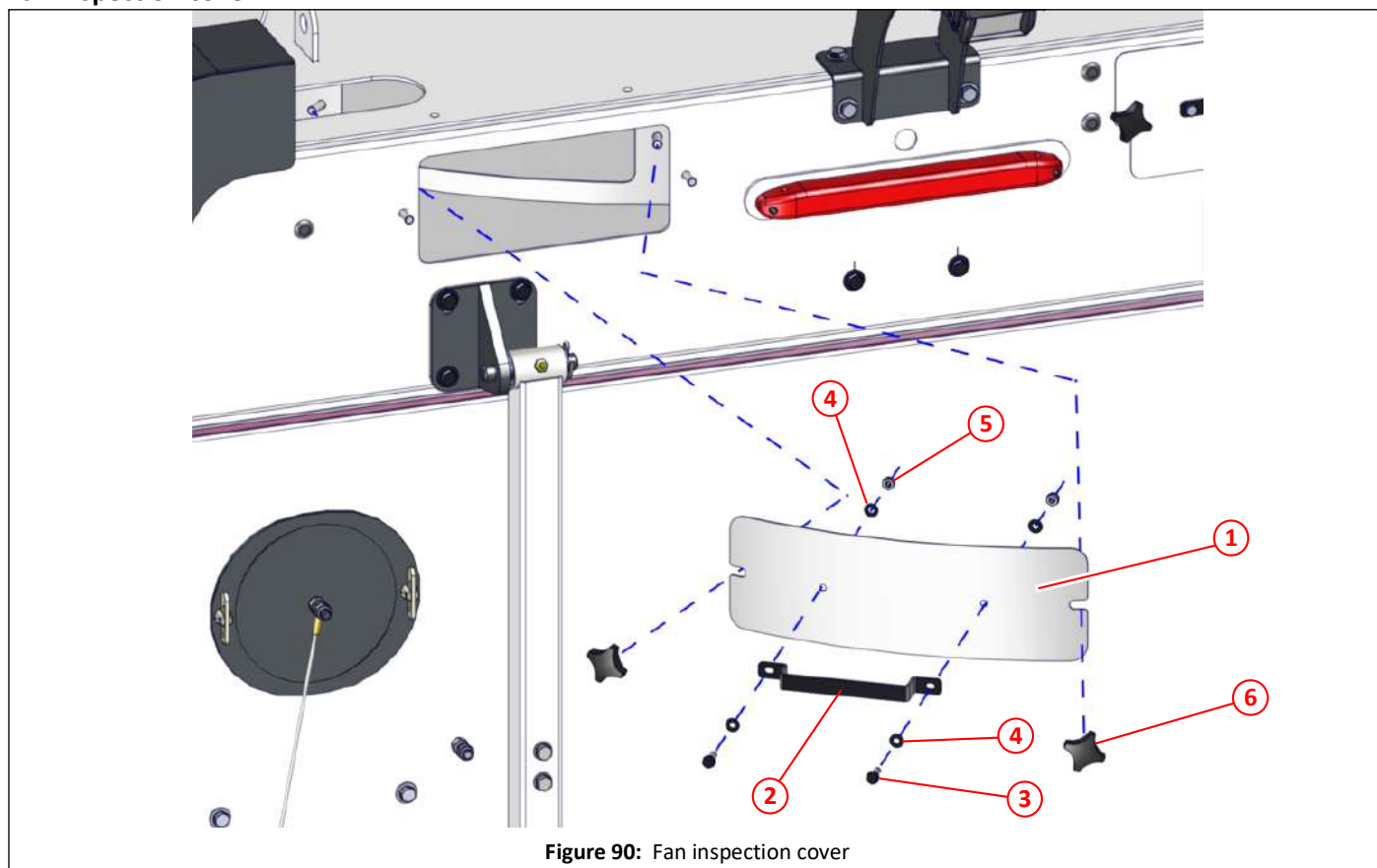


Figure 89: Hopper inspection cover, outer

Item	Part No	Qty	Description	
①	037852	1	Inspection cover	
NI	010546	As req	Seal strip 38 x 3 (rear of inspection cover)	
②	038760	1	Pull handle	
③	000250	2	Set screw M6 x 16, stainless steel	
④	000254	4	Plain washer M6, stainless steel	
⑤	000253	2	Nyloc nut M6, stainless steel	
⑥	000248	2	Grip nut M8	

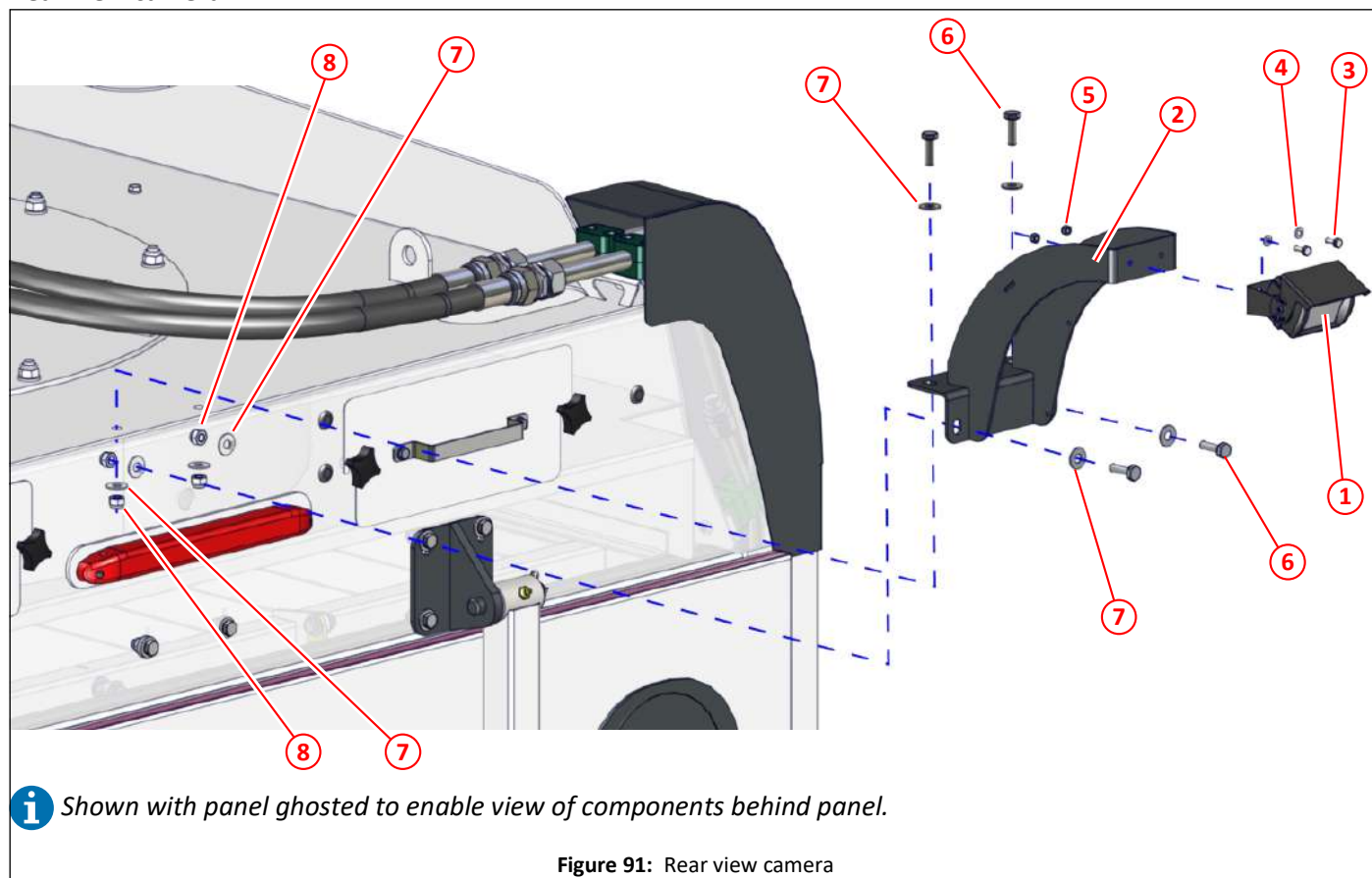
i Quantities shown are per inspection cover. 2 inspection covers per hopper.

Fan inspection cover



Item	Part No	Qty	Description	
①	037851	1	Fan inspection cover	
NI	010546	As req	Seal strip 38 x 3 (rear of inspection cover)	
②	038760	1	Pull handle	
③	000250	2	Set screw M6 x 16, stainless steel	
④	000254	4	Plain washer M6, stainless steel	
⑤	000253	2	Nyloc nut M6, stainless steel	
⑥	000248	2	Grip nut M8	
NI	039331	1	Fan scraper M25H, stored in side locker	

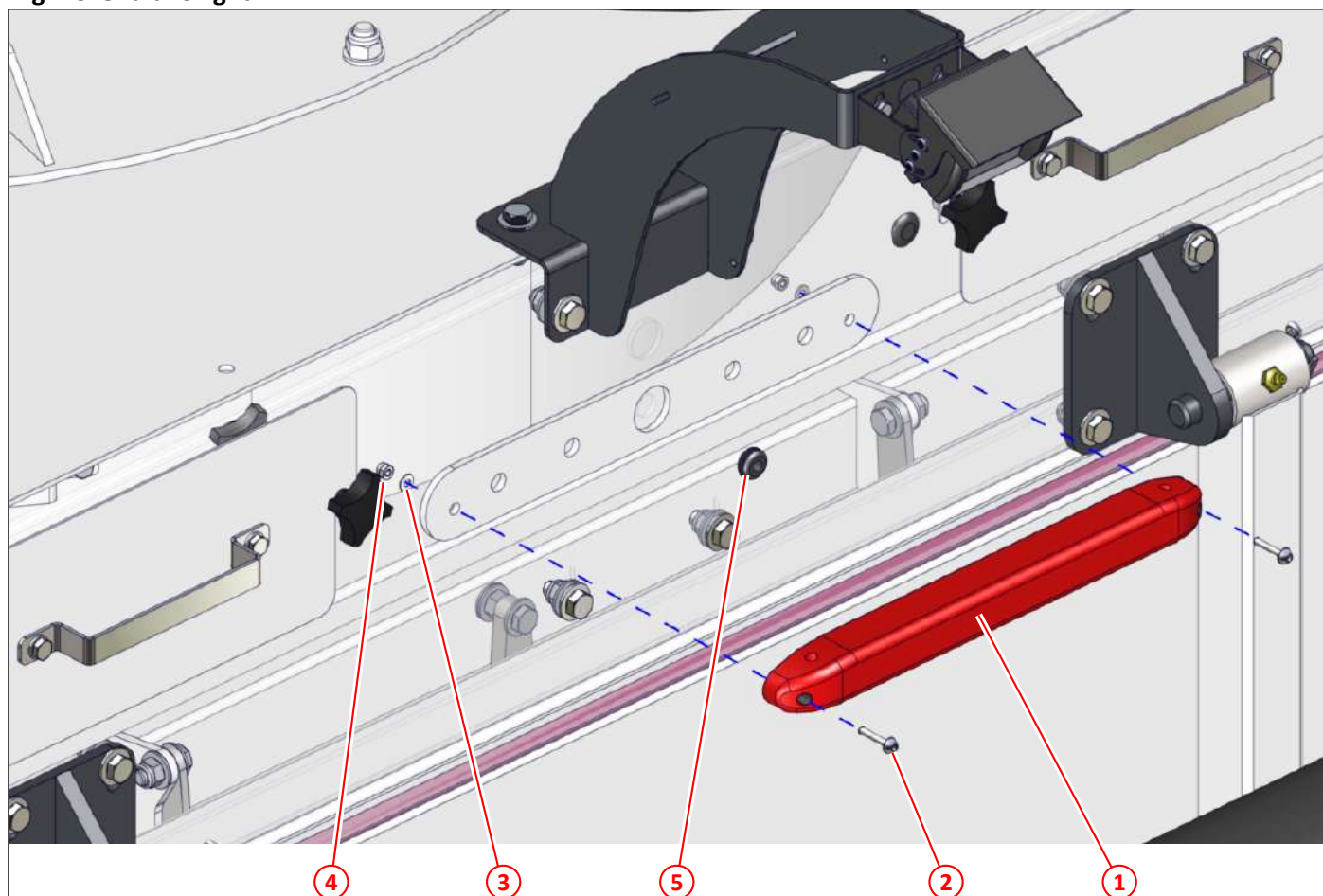
Rear view camera



Item	Part No	Qty	Description	
①	040354	1	Camera	
②	043324	1	Camera bracket	
③	000097	2	Bolt M5 x 12	
④	000410	2	Washer M5	
⑤	000155	2	Nyloc nut M5	
⑥	000257	4	Set screw M8 x 25, stainless steel	
⑦	000264	8	Plain washer M8, stainless steel	
⑧	000263	4	Nyloc nut M8, stainless steel	
NI	042933	1	Hopper wiring loom	

i Please see “Electrical” (223) section for all other wiring looms and electrical components.

High level brake light



i Shown with panel ghosted to enable view of components behind panel.

Figure 92: High level brake light

Item	Part No	Qty	Description	
①	039336	1	High level LED brake light	
②	000483	2	Socket dome screw M4	
③	000309	2	Plain washer M4	
④	000134	2	Nyloc nut M4	
⑤	014184	1	Grommet 16 x 6.4 x 12.5 x 1.6 x 8	
NI	042933	1	Hopper wiring loom	

i Please see "Electrical" (223) section for all other wiring looms and electrical components.

Rear beacon

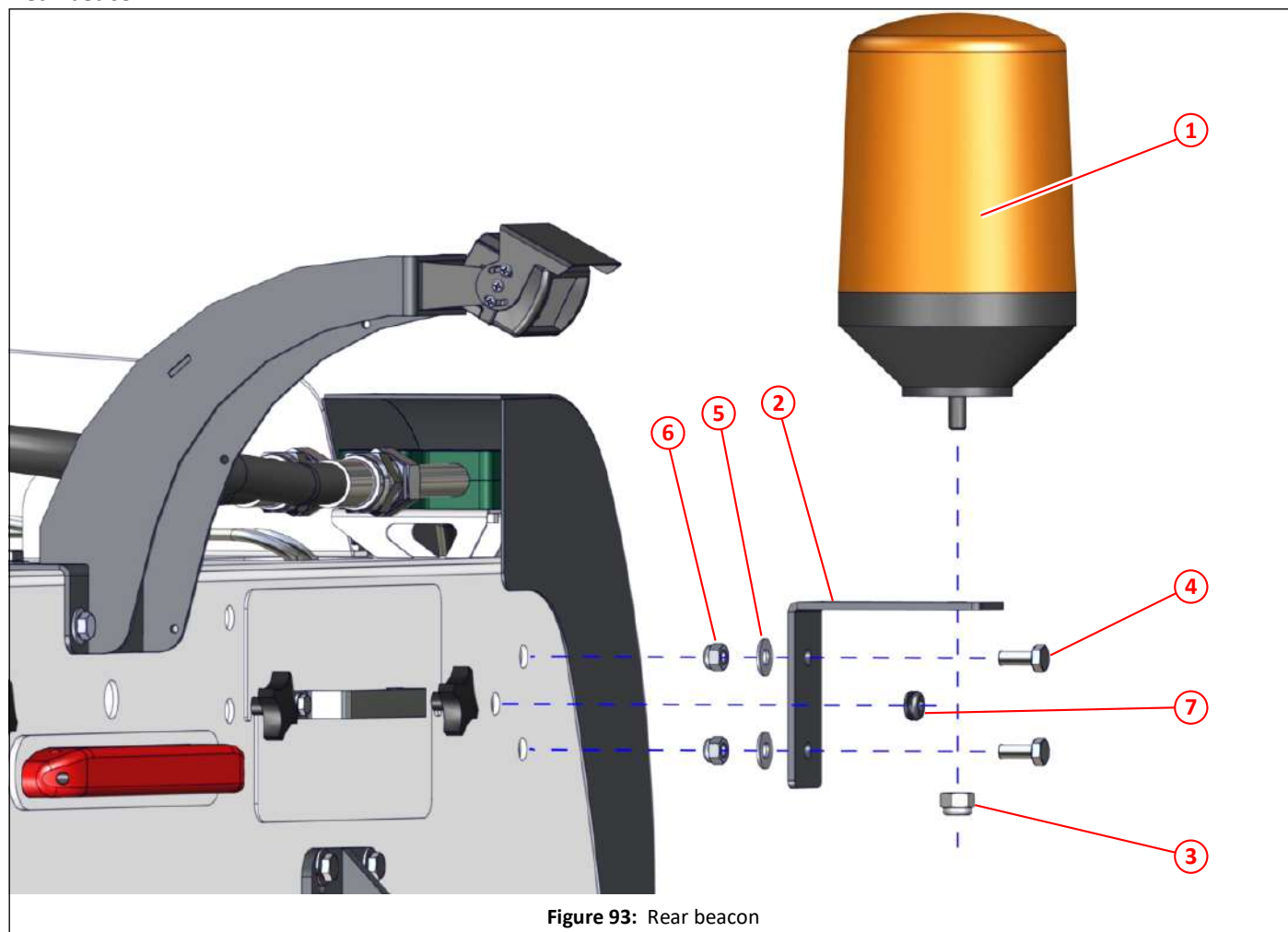


Figure 93: Rear beacon

Item	Part No	Qty	Description	
①	010304	1	Beacon 12V	
②	010297	1	Bracket beacon	
③	011075	1	Nyloc nut M10	
④	000256	2	Set screw M8 x 20, stainless steel	
⑤	000264	2	Plain washer M8, stainless steel, (are behind panel)	
⑥	000263	2	Nyloc nut M8, stainless steel, (are behind panel)	
⑦	014184	1	Grommet 16 x 6.4 x 12.5 x 1.6 x 8	
NI	042933	1	Hopper wiring loom	

i Please see “Electrical” (223) section for all other wiring looms and electrical components.

Rear LED beacons

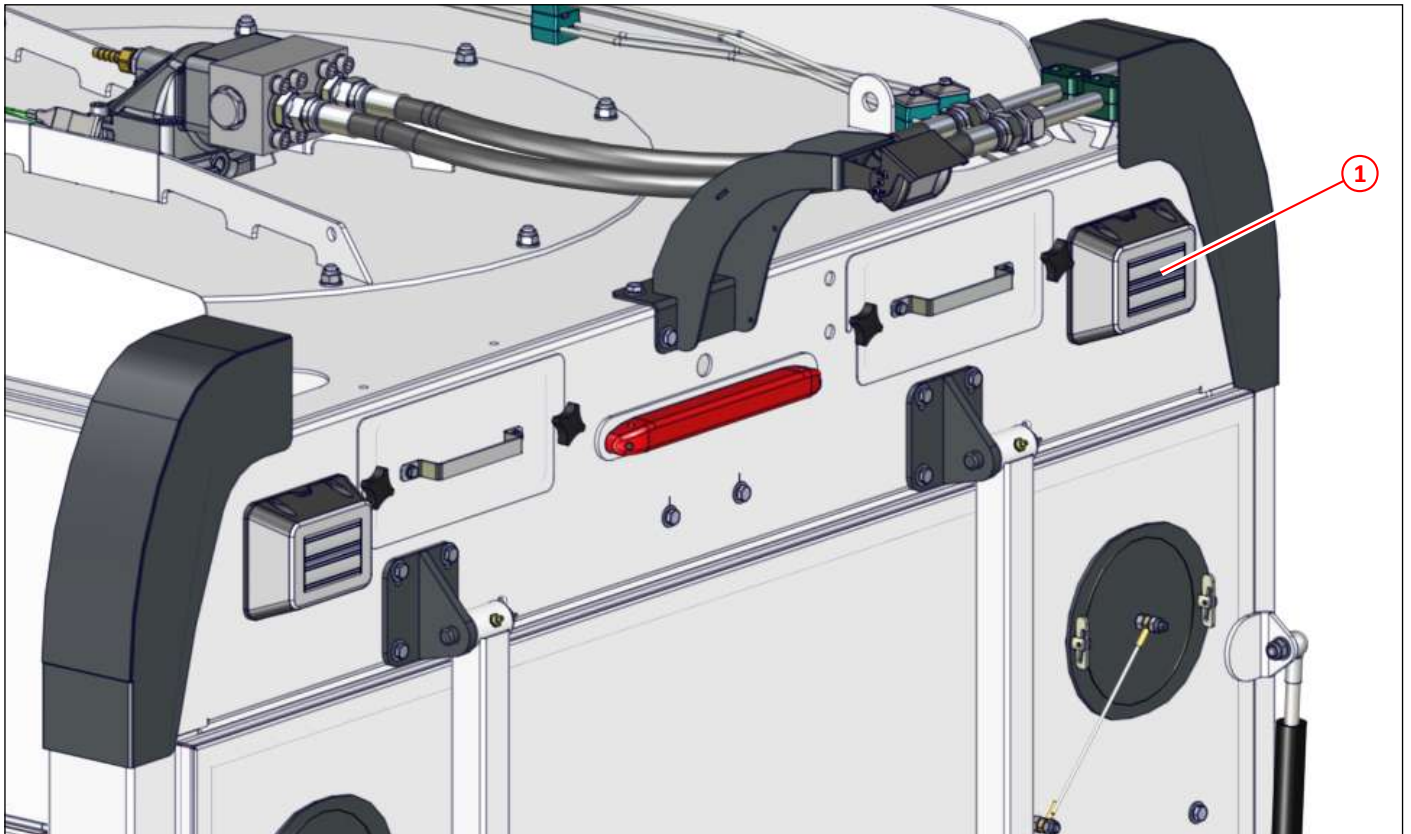
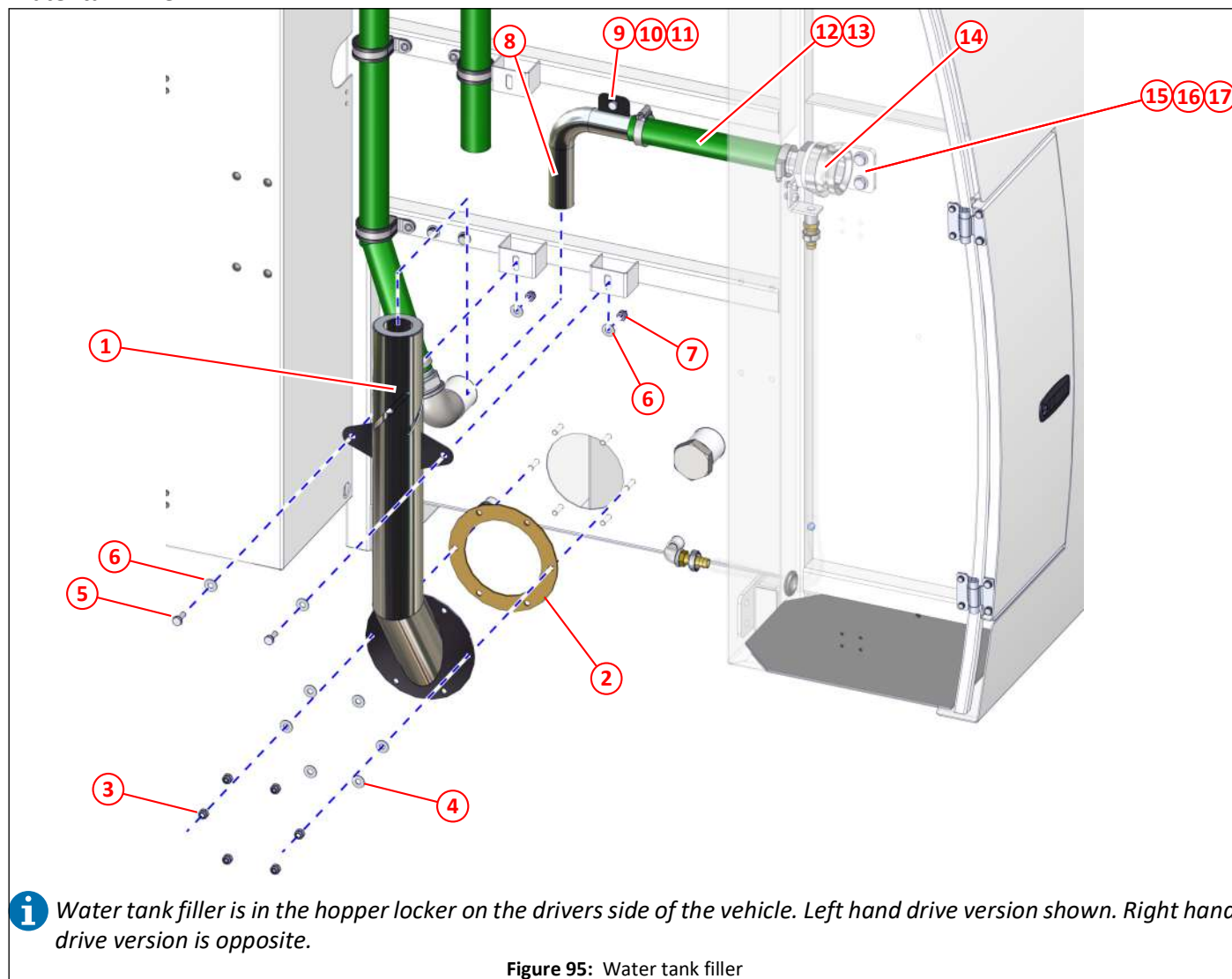


Figure 94: Rear LED beacons

Item	Part No	Qty	Description	
①	032721	2	LED beacon, includes nut, bolts and washers	
NI	042933	1	Hopper wiring loom	

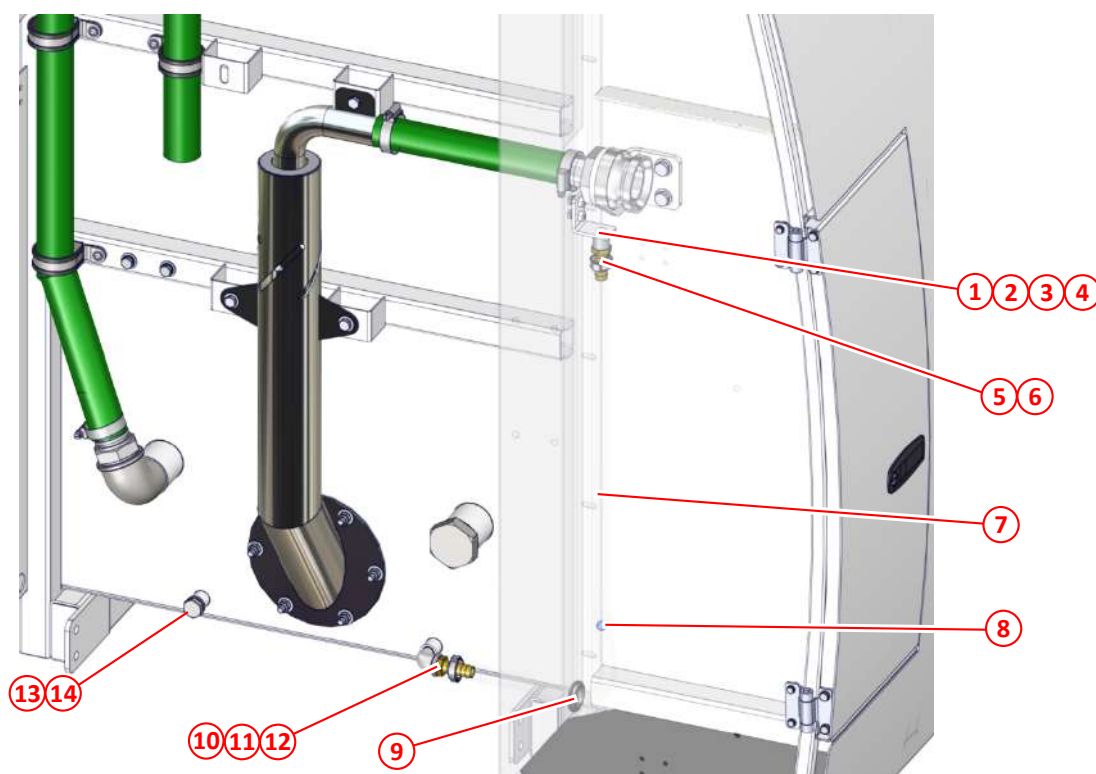
i Please see “Electrical” (223) section for all other wiring looms and electrical components.

Water tank filler



Item	Part No	Qty	Description
①	042558	1	Water tank filler
②	042559	1	Cork gasket
③	000263	6	Nyloc nut m8, stainless steel
④	000264	6	Plain washer M8, stainless steel
⑤	000256	2	Set screw M8 x 20, stainless steel
⑥	000264	4	Plain washer M8, stainless steel
⑦	000263	2	Nyloc nut M8, stainless steel
⑧	042561	1	Filler pipe
⑨	000256	1	Set screw M8 x 20, stainless steel
⑩	000264	1	Plain washer M8, stainless steel
⑪	000263	1	Nyloc nut M8, stainless steel
⑫	001045	250mm	Hose, green $\phi 1\frac{1}{2}$ " ID
⑬	003007	2	Clamp, worm drive, No. 2A [35 - 50]
⑭	025140	1	Hydrant Adapter, with nut
⑮	041263	1	Hydrant Adapter bracket
⑯	000280	2	Set screw M10 x 25, stainless steel
⑰	011094	2	Plain washer M10

Water tank level

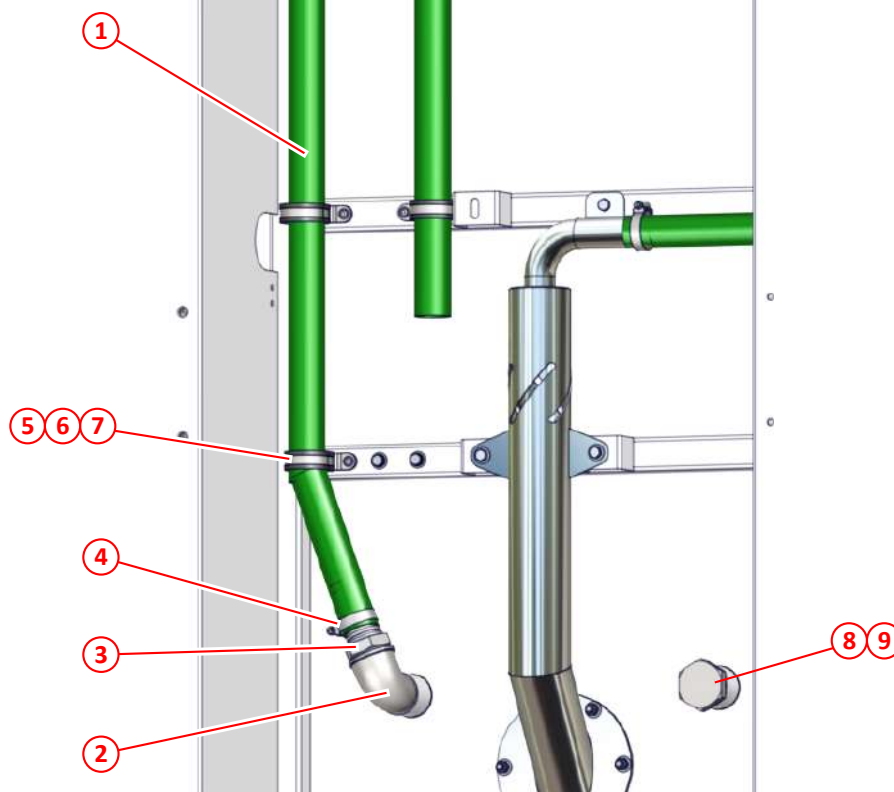


i Water tank level is in the locker on the drivers side of the vehicle. Left hand drive version shown. Right hand drive version is opposite.

Figure 96: Water tank level

Item	Part No	Qty	Description	
①	043351	1	Water level top bracket	
②	011001	2	Set screw M6 x 16	
③	011091	2	Spring washer M6	
④	011090	2	Plain washer M6	
⑤	010930	1	Adapter $\frac{3}{8}$ " BSP x $\frac{5}{8}$ " hose tail	
⑥	000202	1	O-clip $\frac{7}{8}$ "	
⑦	034465	1.5m	$\frac{5}{8}$ " clear plastic PVC tube	
⑧	025335	1	Ball $\frac{1}{2}$ " plastic	
⑨	012542	1	Grommet 1"	
⑩	010930	1	Adapter $\frac{3}{8}$ " BSP x $\frac{5}{8}$ " hose tail	
⑪	000202	1	O-clip $\frac{7}{8}$ "	
⑫	010913	1	Elbow M/F $\frac{3}{8}$ " BSP	
⑬	011242	1	Plug $\frac{3}{8}$ " BSP	
⑭	011153	1	Dowty seal $\frac{3}{8}$ " BSP	

Water tank breather, early version

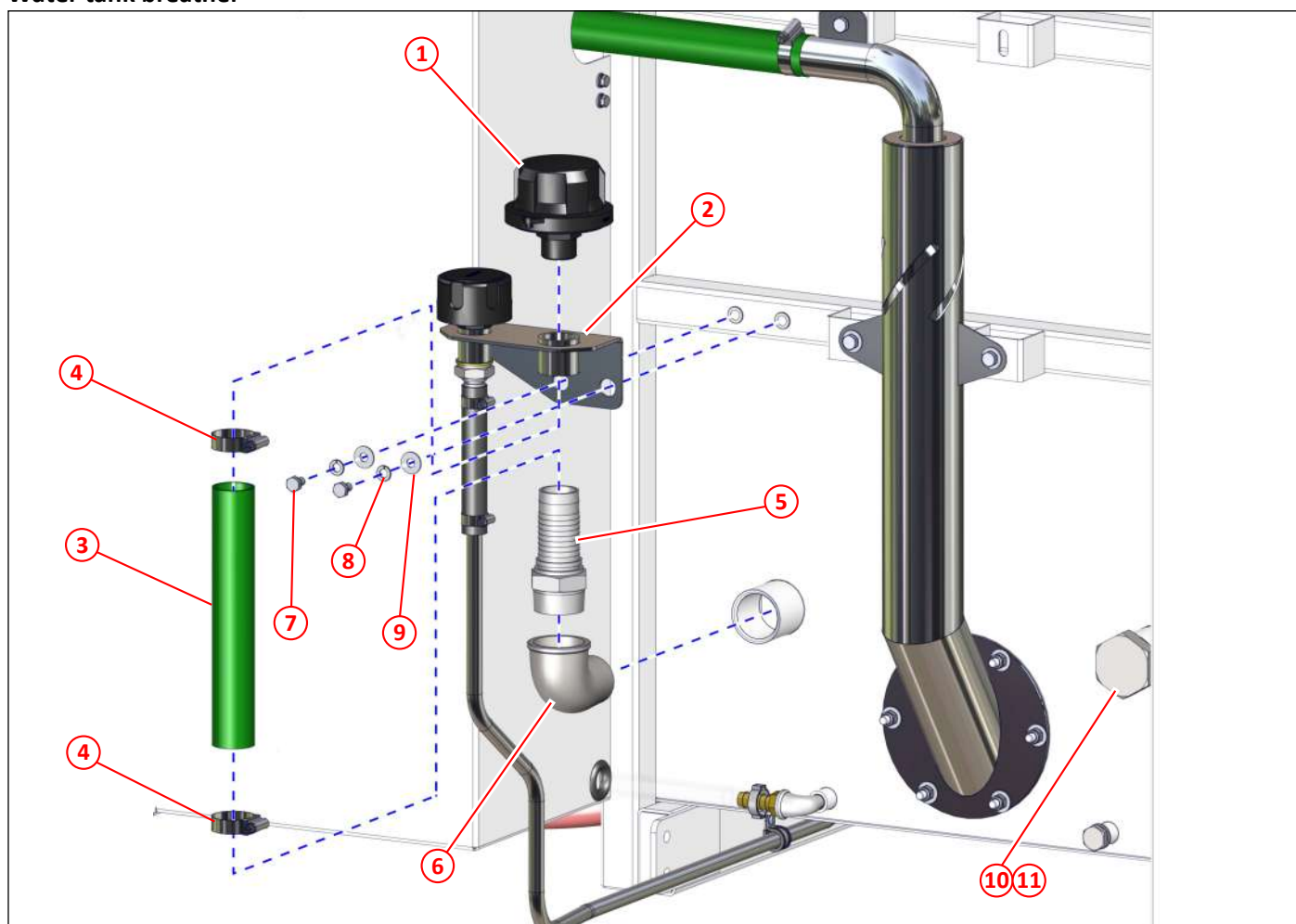


i Early version of breather shown, see page 127 for alternate version.
Left hand drive version shown, right hand drive version is opposite.

Figure 97: Water tank breather, early version

Item	Part No	Qty	Description	
①	001045	1.5m	Hose, green $\phi 1\frac{1}{2}$ " ID	
②	003015	1	Elbow M/F $1\frac{1}{2}$ " BSP	
③	002051	1	Adapter $1\frac{1}{2}$ " BSP male x $1\frac{1}{2}$ " hose tail	
④	003007	1	Clamp, worm drive, No. 2A [35 - 50]	
⑤	005055	4	P-clip $\phi 50$ ID	
⑥	000254	4	Plain washer M6, stainless steel	
⑦	000220	4	Rivet aluminium $\frac{3}{16}$ " x 28	
⑧	002231	1	Plug $1\frac{1}{2}$ " BSP	
⑨	002072	1	Dowty seal $1\frac{1}{2}$ " BSP	

Water tank breather

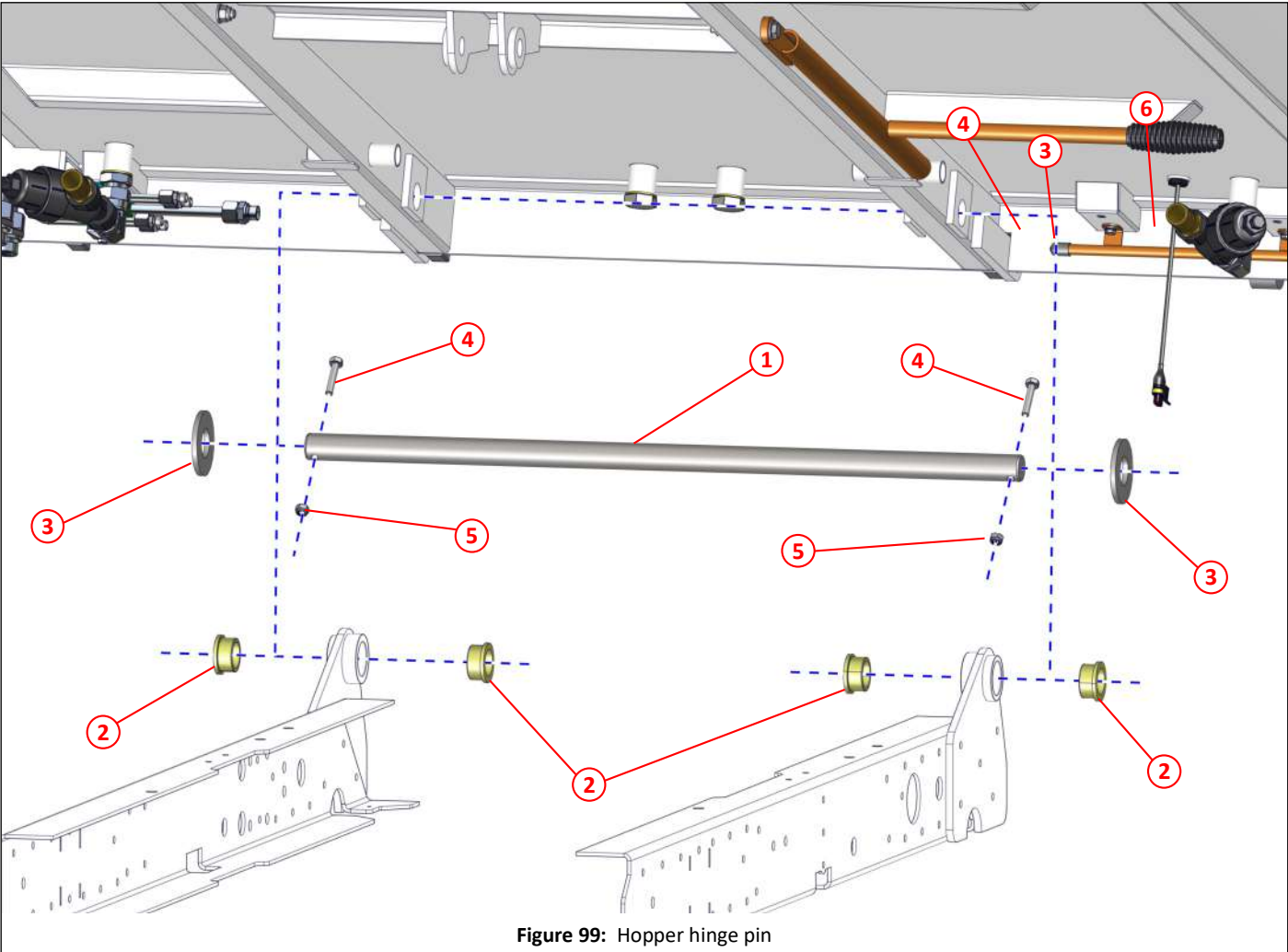


i Later version of breather shown, see page 126 for alternate version.
Shown with right hand water tank filler.

Figure 98: Water tank breather

Item	Part No	Qty	Description	
①	045445	1	Breather, water tank 1" BSP	
②	045541	1	Bracket, fuel and water breathers	
③	001045	245mm	Hose, green $\phi 1\frac{1}{2}$ " ID	
④	003007	2	Clamp, worm drive, No. 2A [35 - 50]	
⑤	002051	1	Adapter $1\frac{1}{2}$ " BSP male x $1\frac{1}{2}$ " hose tail	
⑥	003015	1	Elbow M/F $1\frac{1}{2}$ " BSP	
⑦	000440	2	Set screw, M8 x 12, stainless steel	
⑧	000265	2	Spring washer, M8, stainless steel	
⑨	000264	2	Plain washer, M8, stainless steel	
⑩	002231	1	Plug $1\frac{1}{2}$ " BSP	
⑪	002072	1	Dowty seal $1\frac{1}{2}$ " BSP	

Hopper hinge pin



Item	Part No	Qty	Description	
①	011640	1	Hopper hinge pin	
②	043889	4	Flanged bush $\varnothing 30$ ID x $\varnothing 38$ OD x 20	
③	011101	2	Plain washer M24 zinc	
④	011014	2	Set screw M8 x 40	
⑤	011073	2	M8 Nyloc nut	

Hopper ram

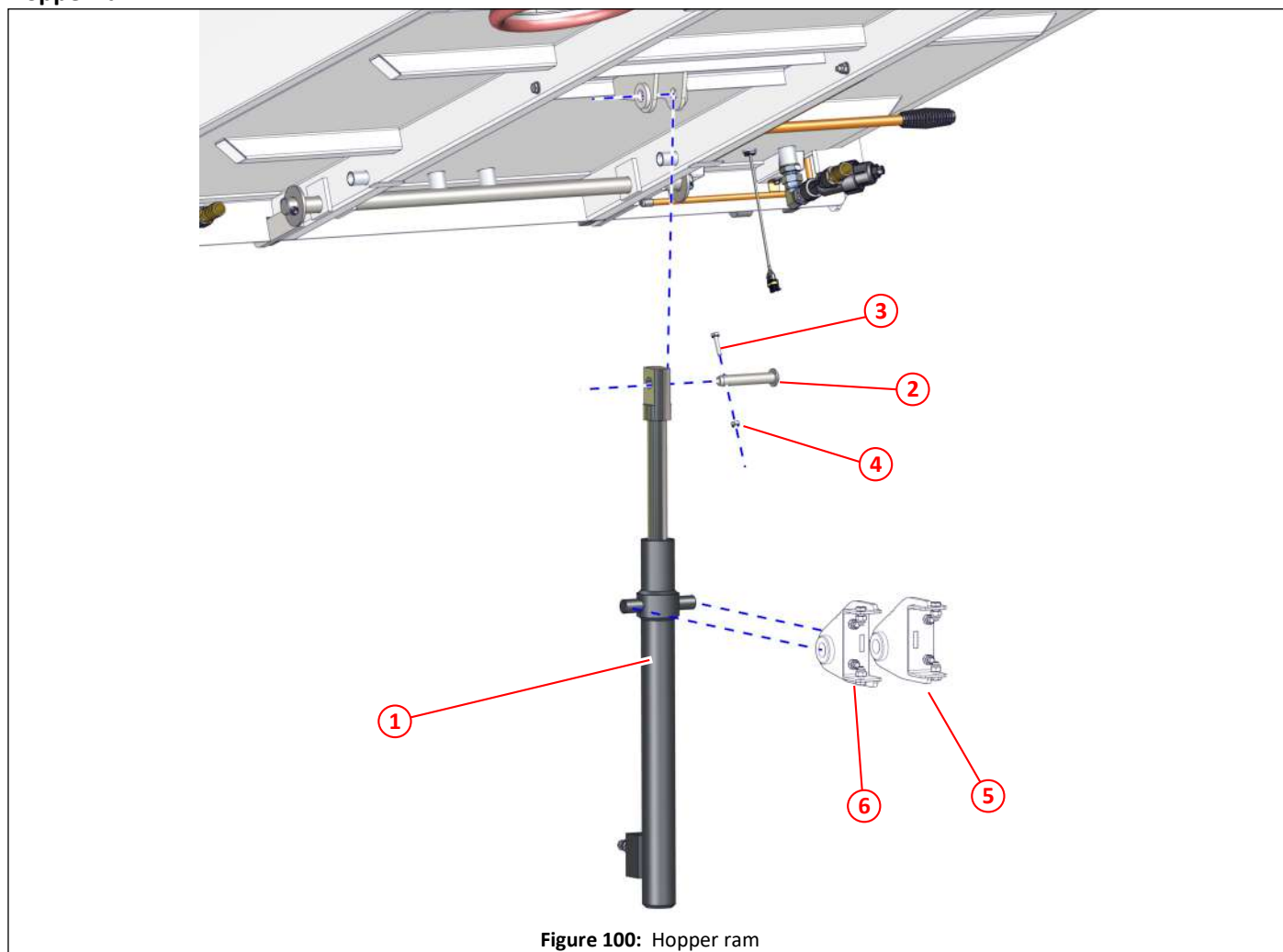
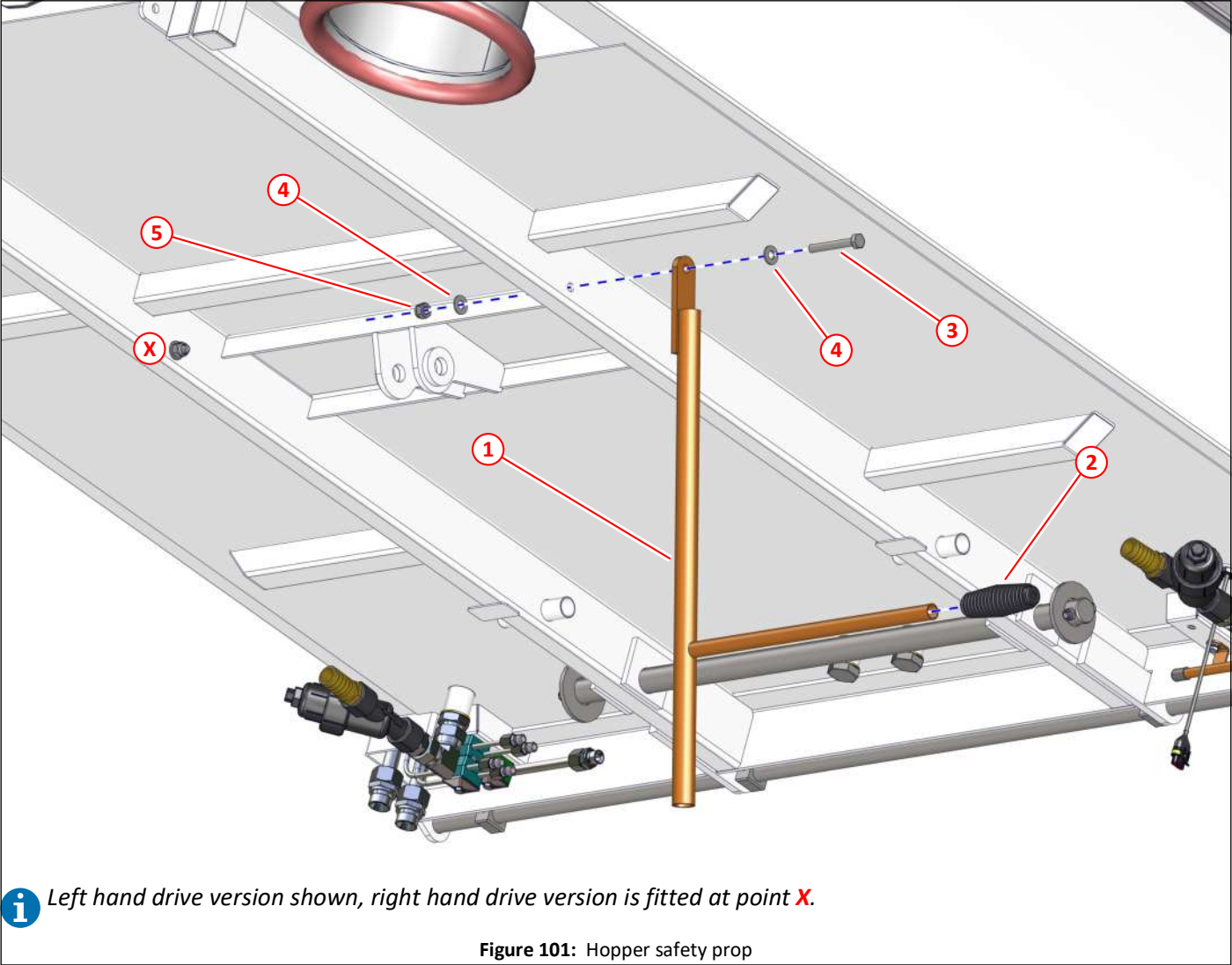


Figure 100: Hopper ram

Item	Part No	Qty	Description	
①	036382	1	Hopper ram	
②	043251	1	Hopper ram pin	
③	011013	1	Set screw M8 x 35	
④	011073	1	Nyloc nut M8	
⑤	041604	1	Hopper ram support left hand	
⑥	041605	1	Hopper ram support right hand	

Hopper safety prop



Item	Part No	Qty	Description	
①	042619	1	Hopper safety prop	
②	039680	1	Hopper safety prop handle	
③	011043	1	Bolt M10 x 70	
④	011094	2	Plain washer M10	
⑤	011075	1	Nyloc nut 10	

Rear door hinges

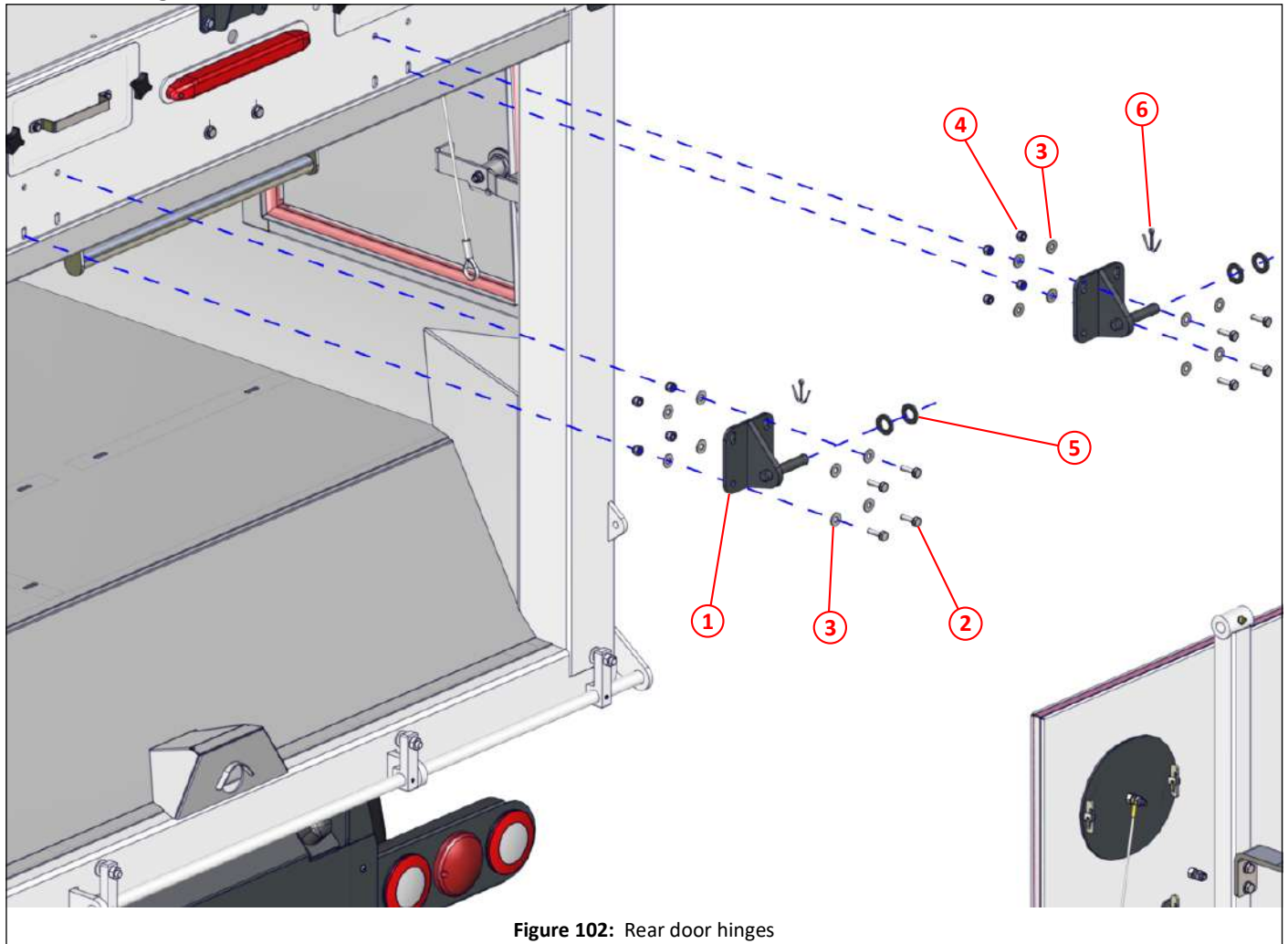


Figure 102: Rear door hinges

Item	Part No	Qty	Description	
①	025262	1	Rear door hinge	
②	000257	4	Set screw M8 x 25, stainless steel	
③	000264	8	Plain washer M8, stainless steel	
④	000263	4	Nyloc nut M8, stainless steel	
⑤	011135	2	Plain washer M16	
⑥	011122	1	Split pin $\frac{3}{16}$ " x $1\frac{1}{2}$ "	
	042582	1	Hopper rear door assembly (non recycling)	

i Quantities shown are per hinge. 2 hinges per hopper/door.

Rear door

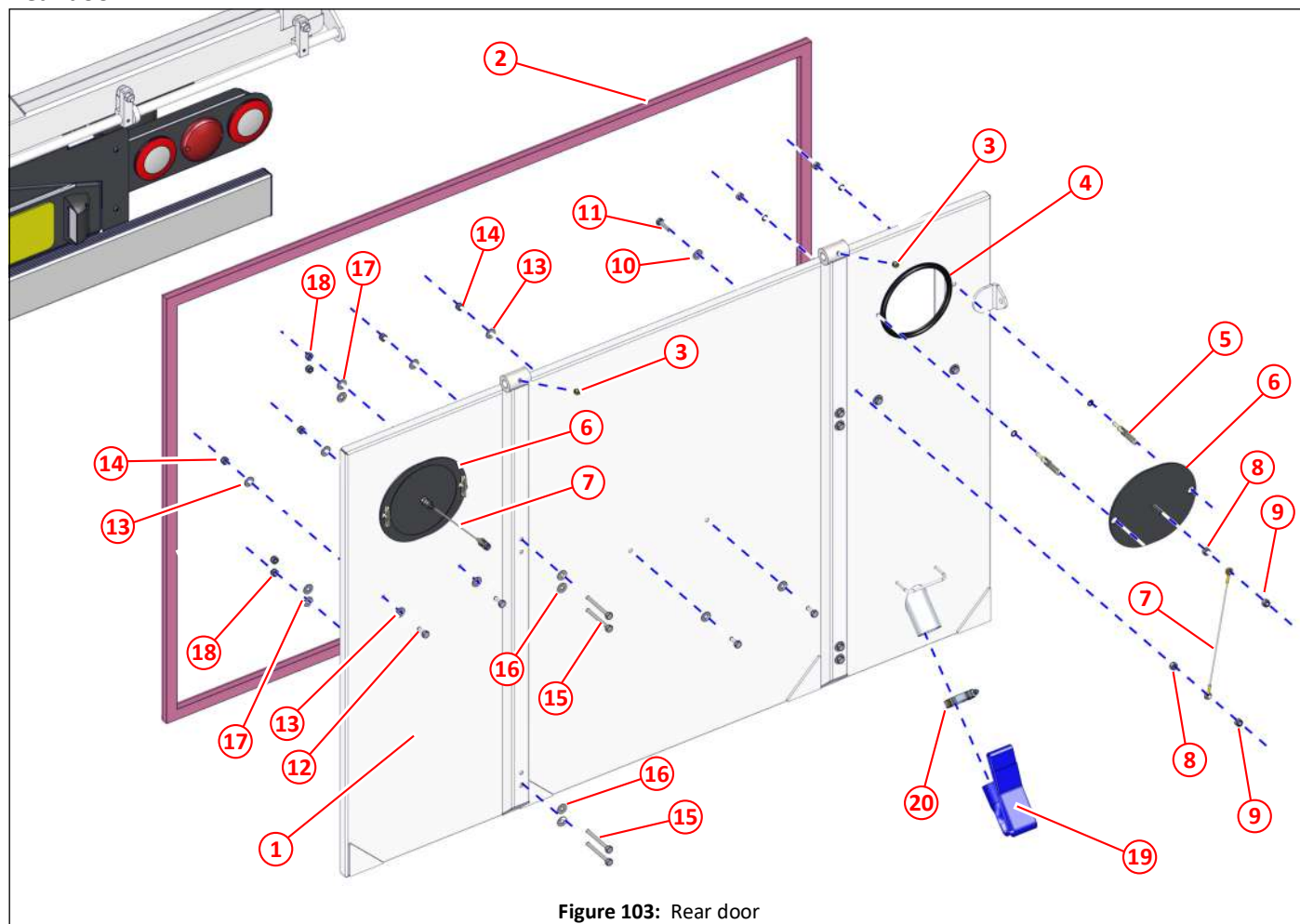


Figure 103: Rear door

Item	Part No	Qty	Description
①	045430	1	Rear door, hopper
②	042592	1	Seal, rear door, hopper
③	010903	2	Grease nipple straight x $\frac{1}{8}$ " BSP
④	025222	0.3m	Titanfast section DX78
⑤	012253	4	Antiluce drop catch fasteners (includes washers and nut)
⑥	012486	2	Blanking cap plate
⑦	020711	2	Cable leash
⑧	000262	4	Full nut M8, stainless steel
⑨	000263	4	Nyloc nut M8, stainless steel
⑩	000264	2	Plain washer M8, stainless steel
⑪	000258	2	Set screw M8 x 30, stainless steel
⑫	000256	6	Set screw M8 x 20, stainless steel
⑬	000264	12	Plain washer M8, stainless steel
⑭	000263	6	Nyloc nut M8, stainless steel
⑮	011018	8	Bolt M8 x 70
⑯	011092	8	Plain washer M8
⑰	000264	8	Plain washer M8, stainless steel
⑱	000263	8	Nyloc nut M8, stainless steel
⑲	010955	1m	Lay flat hose blue
⑳	012927	1	Clamp, worm drive, No. 2 [40 - 55]

Rear door locking

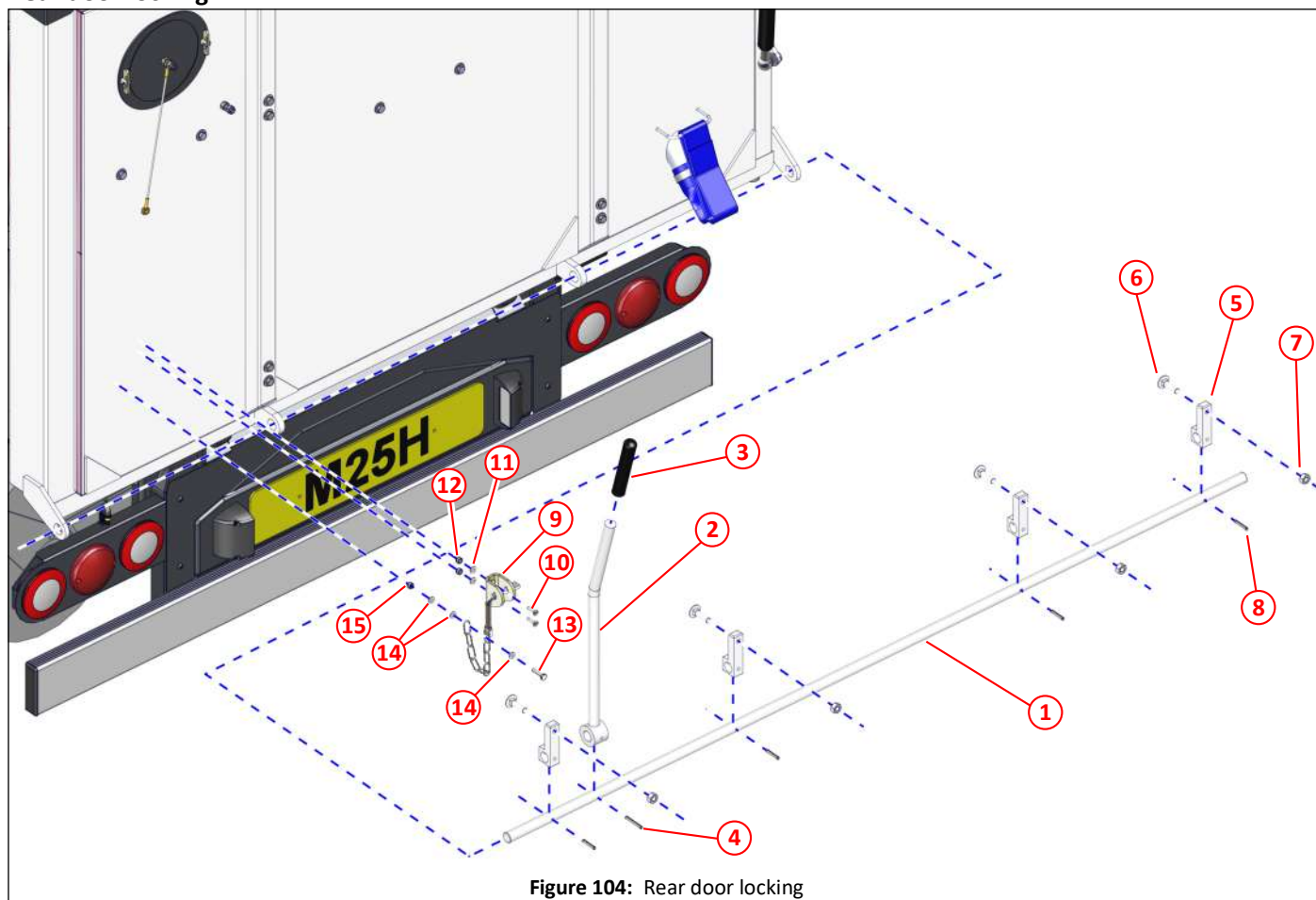


Figure 104: Rear door locking

Item	Part No	Qty	Description	
①	041278	1	Locking bar	
②	014995	1	Handle	
③	014997	1	Handle grip	
④	000111	1	Roll pin 6 x 40	
⑤	010077	4	Catch	
⑥	000135	4	Coach bolt M10 x 35	
⑦	011074	4	Nut full M10	
⑧	012427	4	Roll pin 6 x 30	
⑨	010232	1	Door catch, pin and chain	
⑩	000283	2	Screw countersunk slotted M6 X 20	
⑪	000254	2	Plain washer M6, stainless steel	
⑫	000253	2	Nyloc nut M6, stainless steel	
⑬	011087	1	Set screw M6 x 25	
⑭	000254	3	Plain washer M6, stainless steel	
⑮	000253	1	Nyloc nut M6, stainless steel	

Rear door gas strut

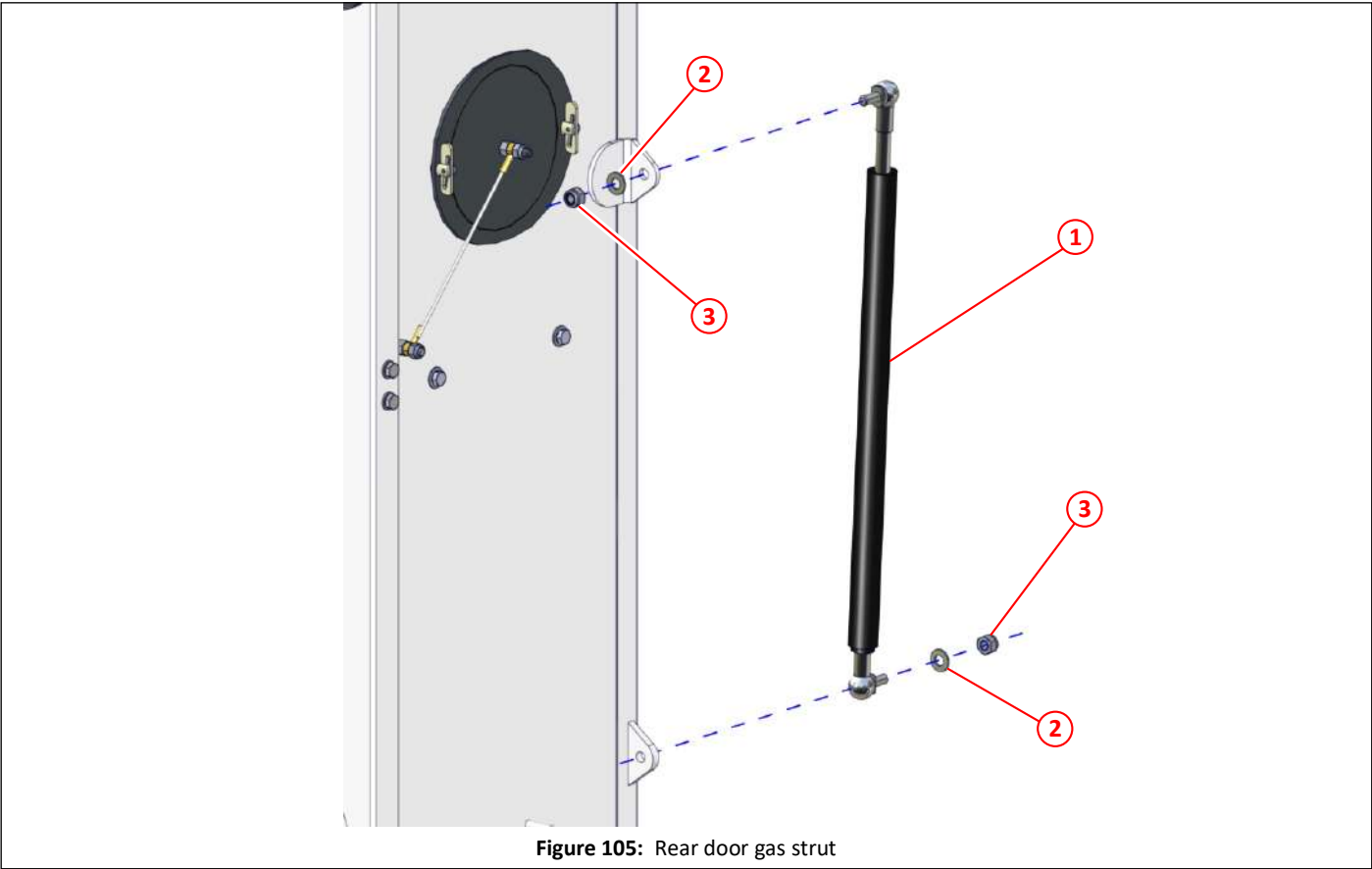


Figure 105: Rear door gas strut

Item	Part No	Qty	Description	
①	042569	1	Gas strut	
②	000270	2	Plain washer M10, stainless steel	
③	000269	2	Nyloc nut M10, stainless steel	

Gantry cover left hand side

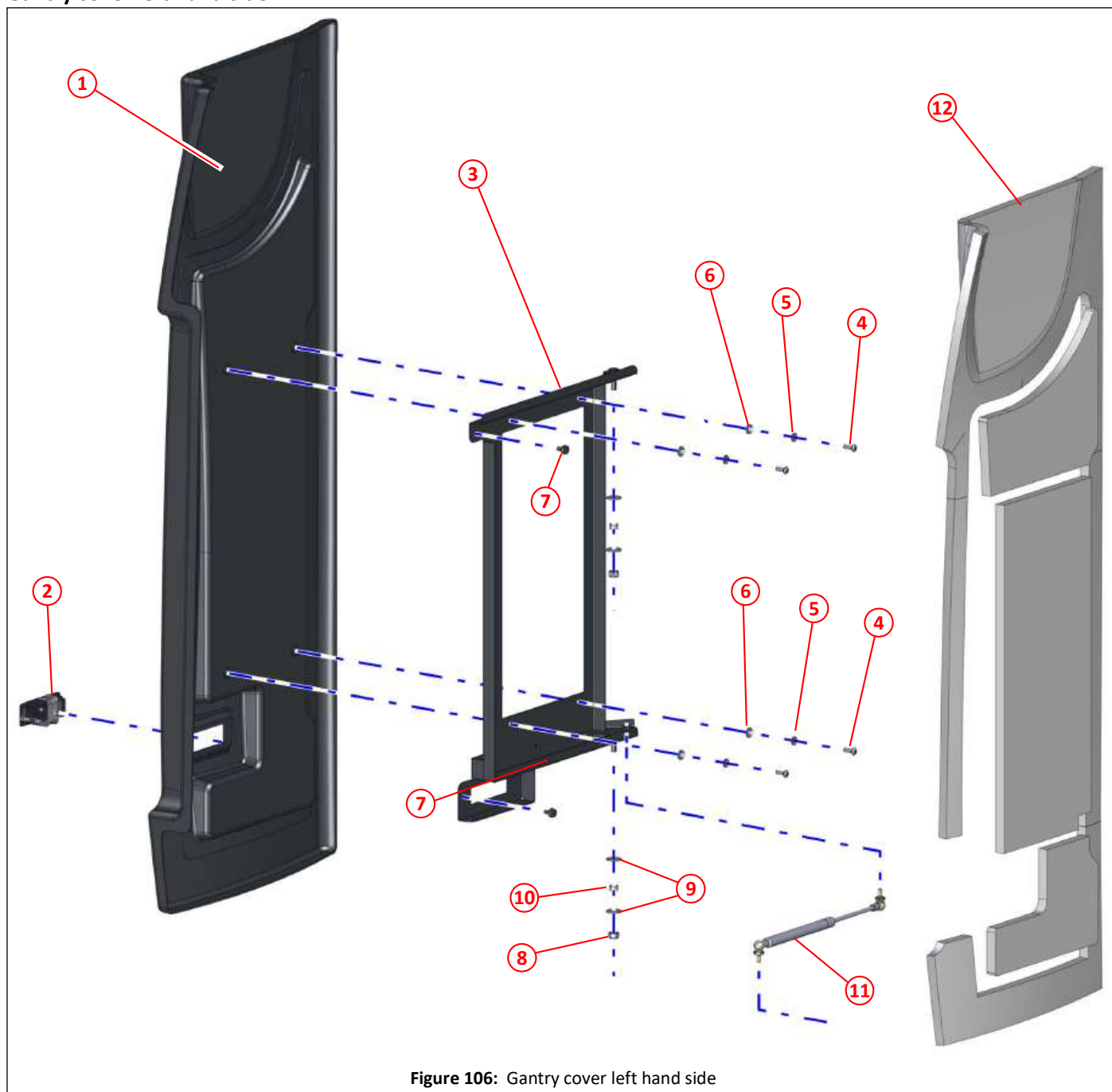


Figure 106: Gantry cover left hand side

Item	Part No	Qty	Description	
①	042138	1	Gantry cover left hand side	
②	035662	1	Panel latch	
③	045437	1	Mounting frame, gantry cover left hand side	
④	000373	4	Socket dome head screw M6 x 16, stainless steel	
⑤	000255	4	Spring washer M6, stainless steel	
⑥	000254	4	Plain washer M6, stainless steel	
⑦	042506	2	Rubber foot	
⑧	011073	2	Nyloc nut M8	
⑨	011092	4	Plain washer M8	
⑩	043733	2	Boss, gantry cover	
⑪	033114	1	Gas strut	
⑫	044111	1	Insulation kit, left hand side	

Gantry cover right hand side

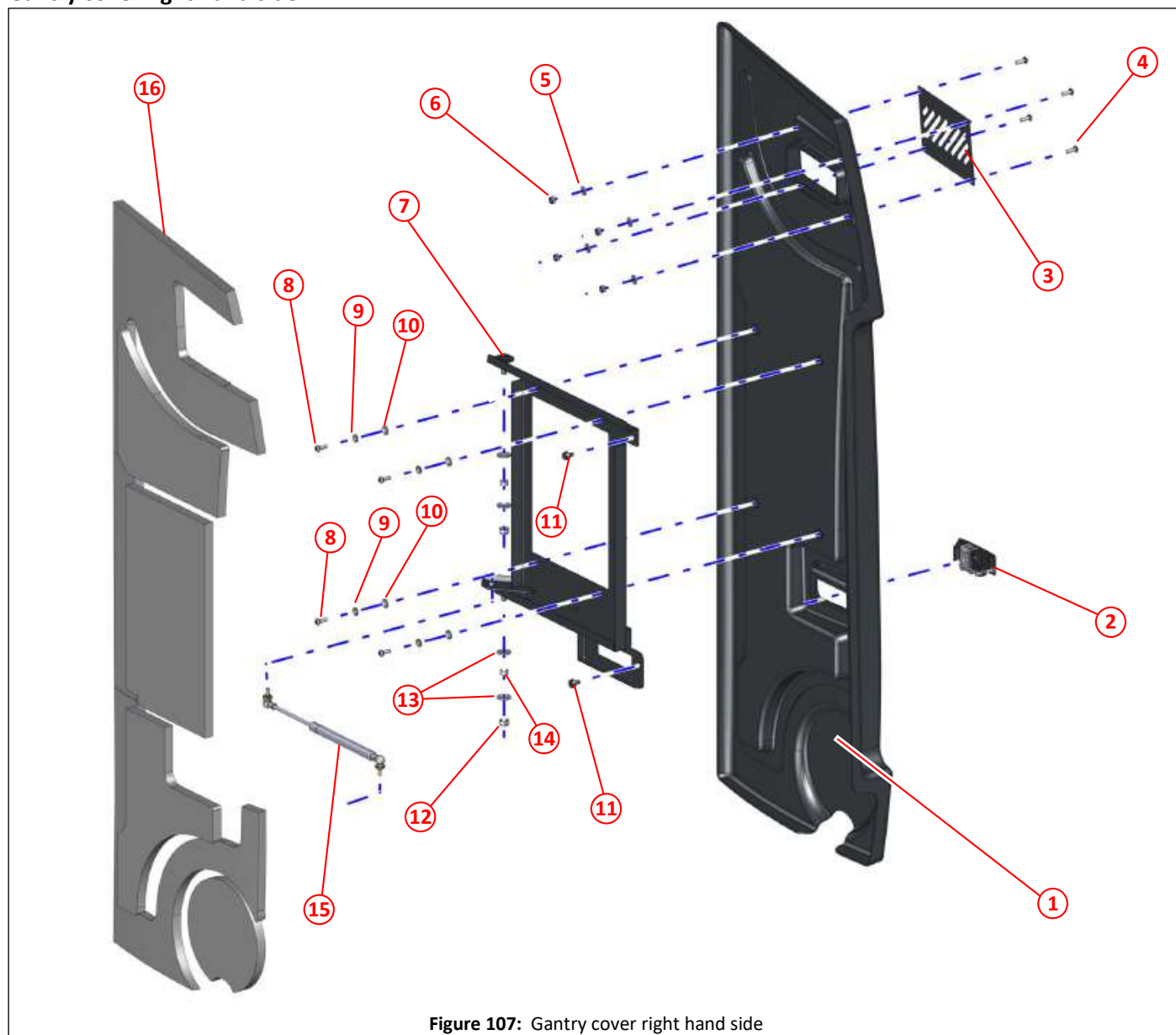


Figure 107: Gantry cover right hand side

Item	Part No	Qty	Description	
①	042141	1	Gantry cover right hand side	
②	035662	1	Panel latch	
③	042376	1	Air intake grille	
④	000373	4	Socket dome head screw M6 x 16, stainless steel	
⑤	000254	4	Plain washer, stainless steel	
⑥	000253	4	Nyloc nut M6, stainless steel	
⑦	045436	1	Mounting frame, gantry cover right hand side	
⑧	000373	4	Socket dome head screw M6 x 16, stainless steel	
⑨	000255	4	Spring washer M6, stainless steel	
⑩	000254	4	Plain washer M6, stainless steel	
⑪	042506	2	Rubber foot	
⑫	011073	2	Nyloc nut M8	
⑬	011092	4	Plain washer M8	
⑭	043733	2	Boss, gantry cover	
⑮	033114	1	Gas strut	
⑯	044110	1	Insulation kit, right hand side	

Gantry cover top

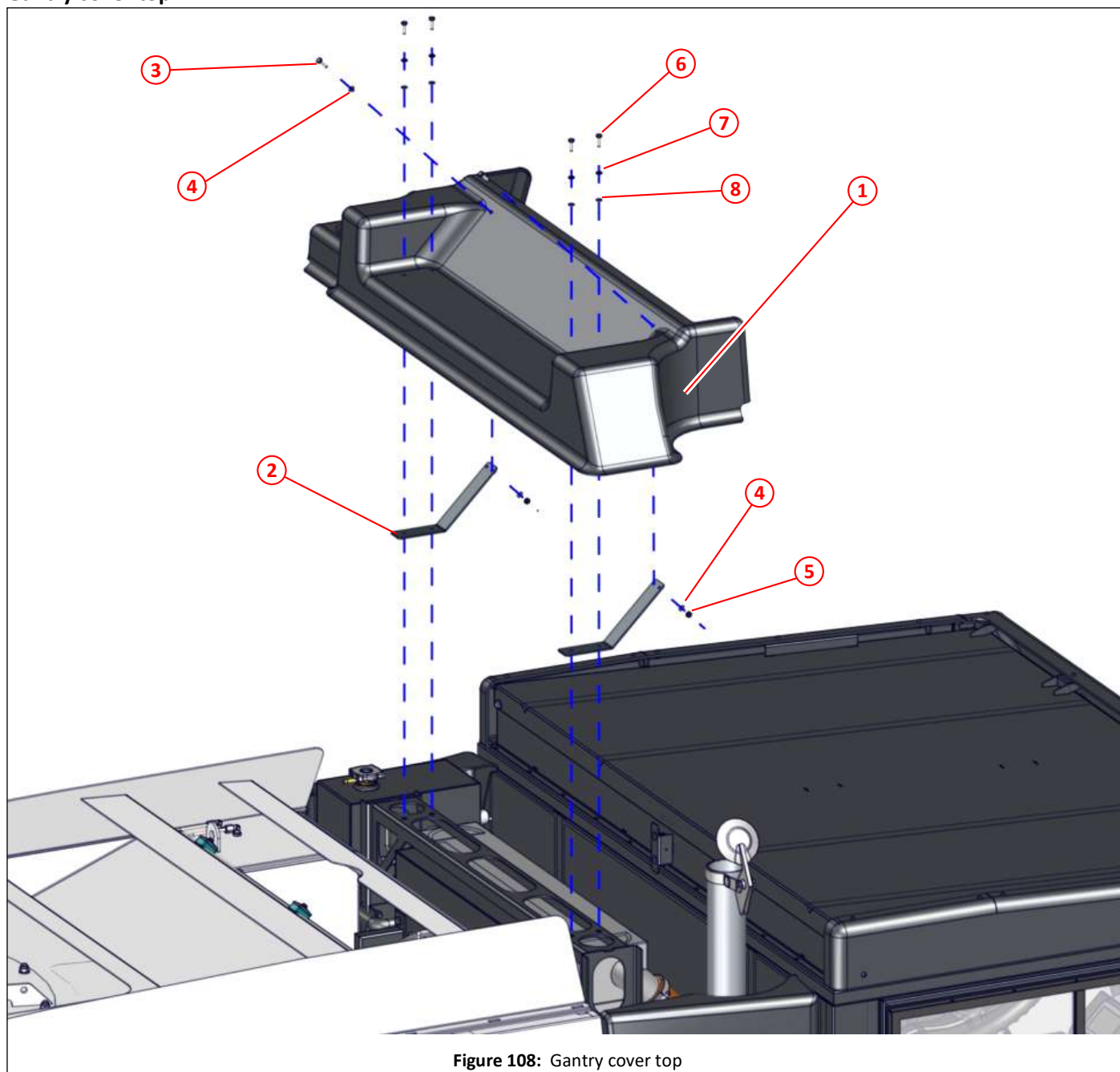


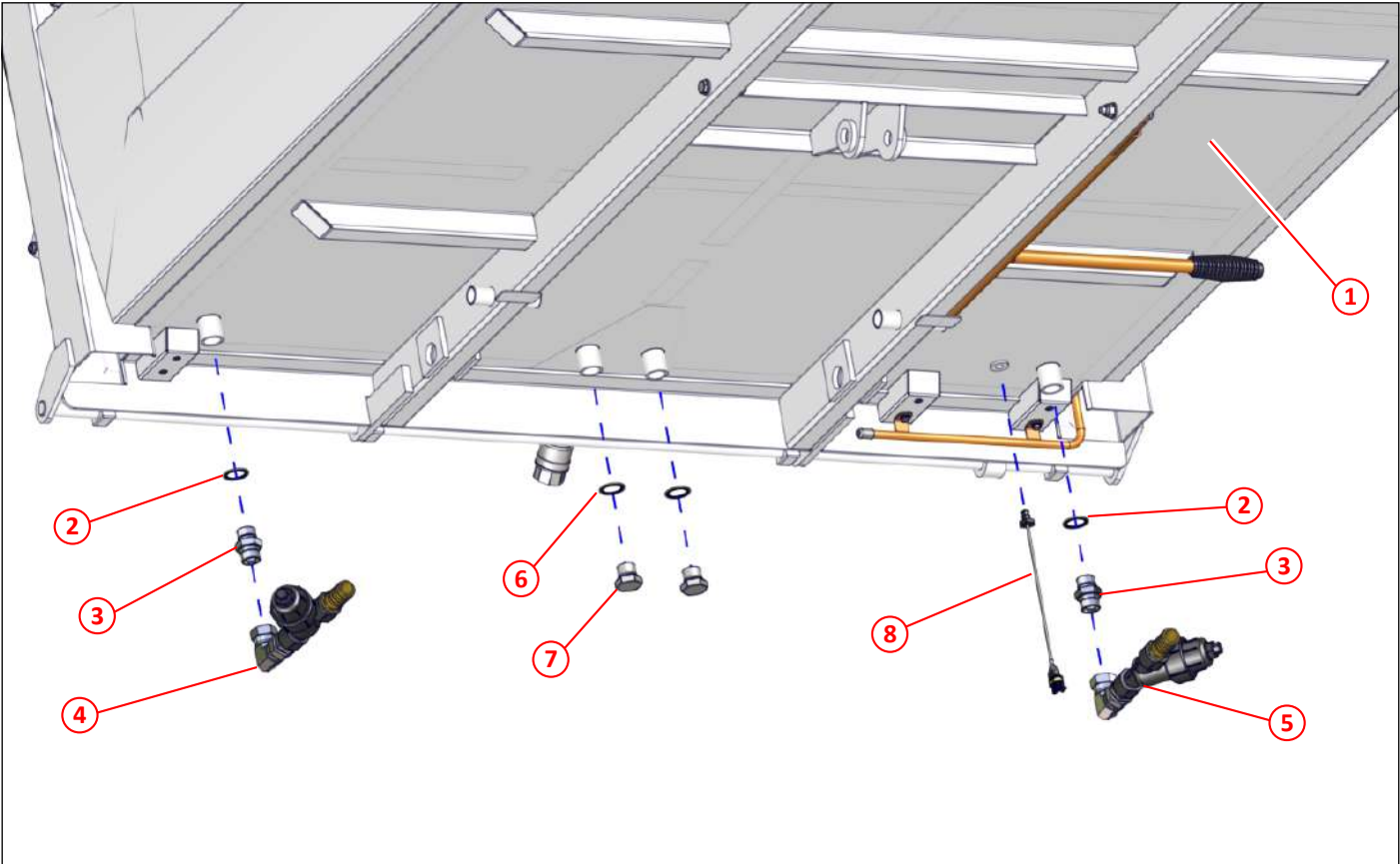
Figure 108: Gantry cover top

Item	Part No	Qty	Description	
①	042143	1	Gantry cover top	
②	042951	2	Reinforcing bracket	
③	000252	2	Set screw M6 x 20, stainless steel	
④	000254	4	Plain washer M6, stainless steel	
⑤	000253	2	Nyloc nut M6, stainless steel	
⑥	000252	4	Set screw M6 x 20, stainless steel	
⑦	000255	4	Spring washer M6, stainless steel	
⑧	000254	4	Plain washer M6, stainless steel	

Water

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Water tank underneath

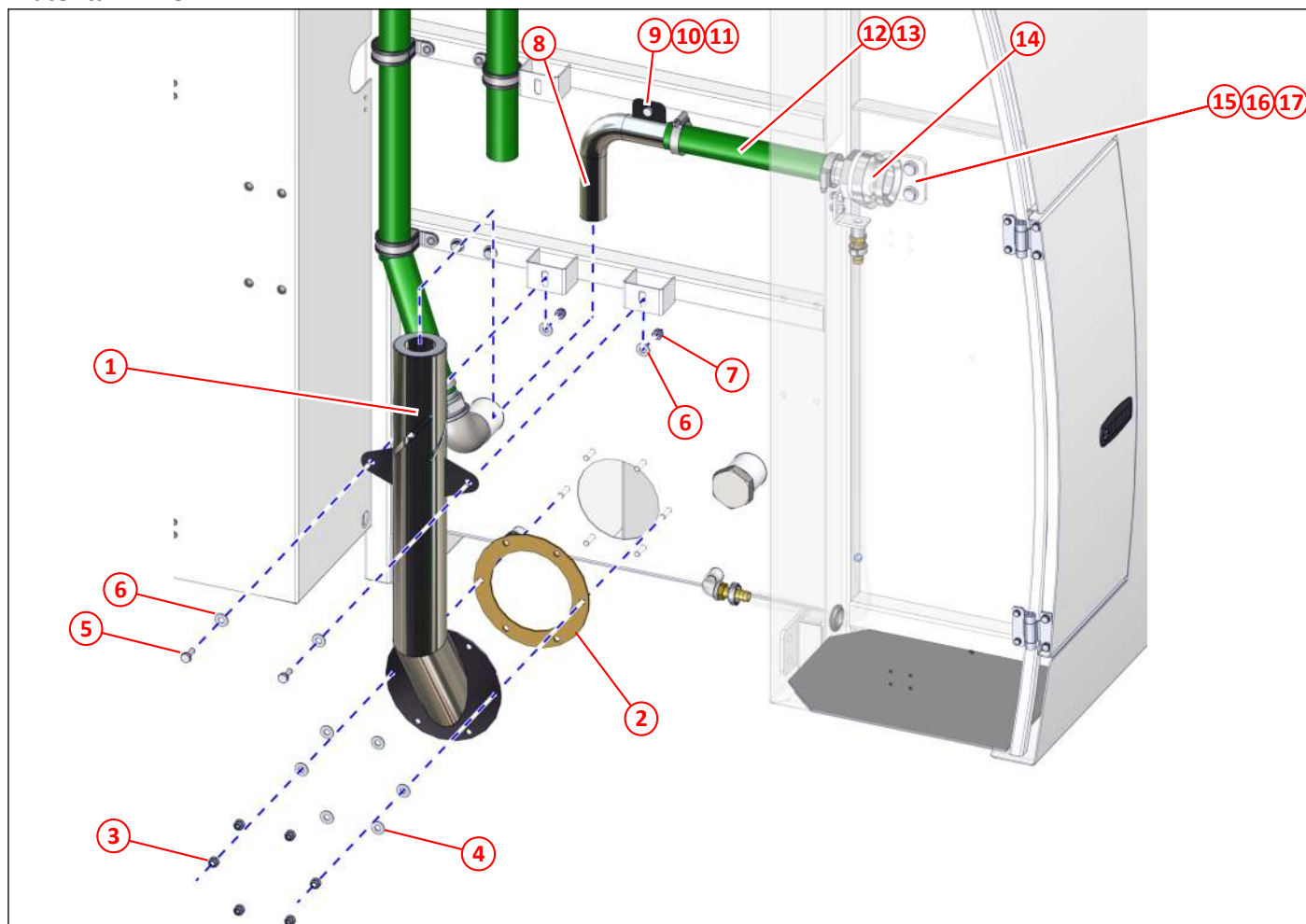


i The water tank is incorporated within the base of the hopper and as such is not replaceable on its own.

Figure 109: Water tank underneath

Item	Part No	Qty	Description	
①	041257	1	Hopper, water tank built into base	
②	011155	2	Dowty seal $\frac{3}{4}$ " BSP	
③	011161	2	Adapter $\frac{3}{4}$ " BSP	
④	043354	1	Water filter assembly for low pressure water	144
⑤	043353	1	Water filter assembly for high pressure water	156
⑥	011155	2	Dowty seal $\frac{3}{4}$ " BSP	
⑦	011244	2	Plug $\frac{3}{4}$ " BSP	
⑧	043250	1	Water sensor and lead	

Water tank filler

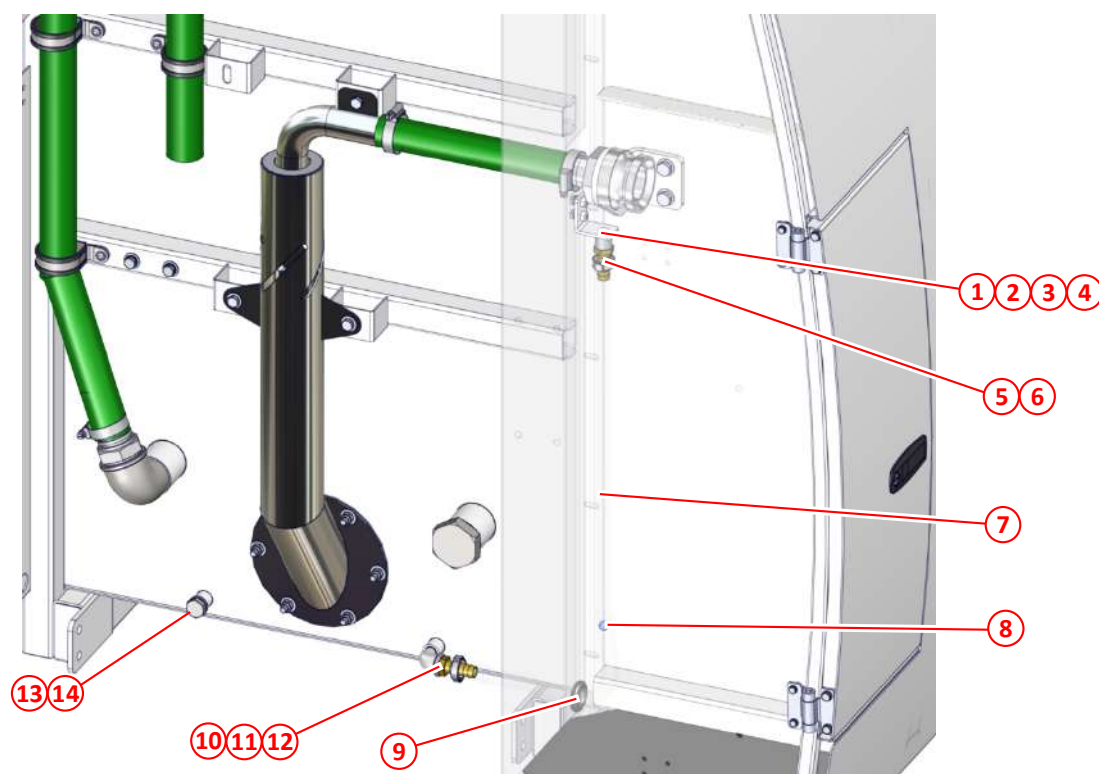


i Water tank filler is in the hopper locker on the drivers side of the vehicle. Left hand drive version shown. Right hand drive version is opposite.

Figure 110: Water tank filler

Item	Part No	Qty	Description	
①	042558	1	Water tank filler	
②	042559	1	Cork gasket	
③	000263	6	Nyloc nut m8, stainless steel	
④	000264	6	Plain washer M8, stainless steel	
⑤	000256	2	Set screw M8 x 20, stainless steel	
⑥	000264	4	Plain washer M8, stainless steel	
⑦	000263	2	Nyloc nut M8, stainless steel	
⑧	042561	1	Filler pipe	
⑨	000256	1	Set screw M8 x 20, stainless steel	
⑩	000264	1	Plain washer M8, stainless steel	
⑪	000263	1	Nyloc nut M8, stainless steel	
⑫	001045	250mm	Hose, green $\phi 1\frac{1}{2}$ " ID	
⑬	003007	2	Clamp, worm drive, No. 2A [35 - 50]	
⑭	025140	1	Hydrant Adapter, with nut	
⑮	041263	1	Hydrant Adapter bracket	
⑯	000280	2	Set screw M10 x 25, stainless steel	
⑰	011094	2	Plain washer M10	

Water tank level

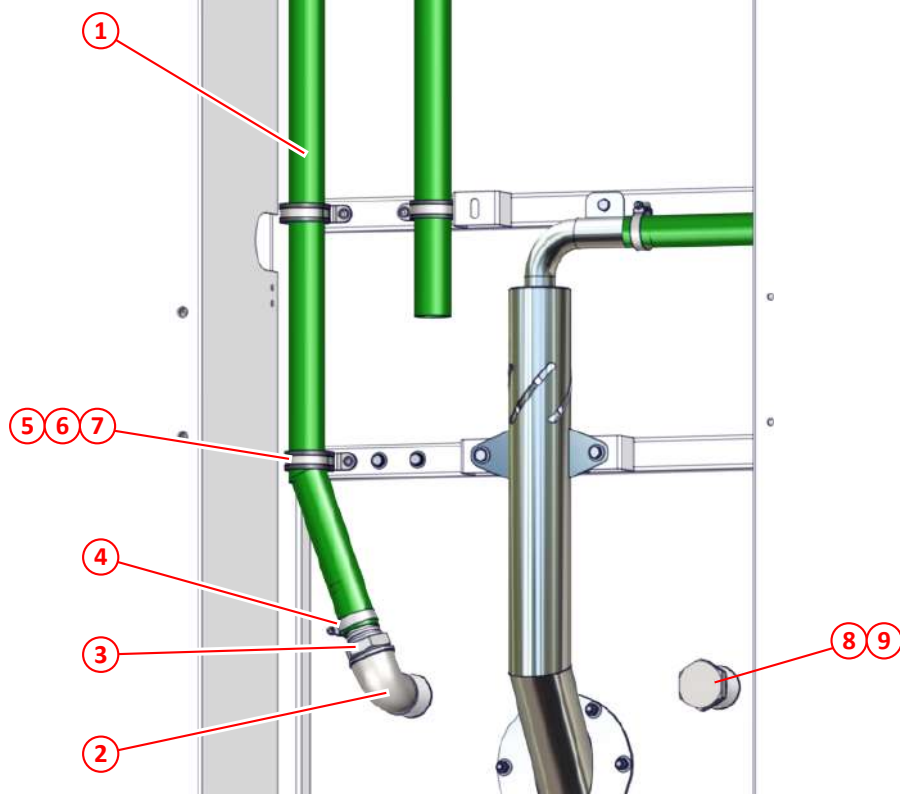


i Water tank level is in the hopper locker on the drivers side of the vehicle.
Left hand drive version shown. Right hand drive version is opposite.

Figure 111: Water tank level

Item	Part No	Qty	Description	
①	043351	1	Water level top bracket	
②	011001	2	Set screw M6 x 16	
③	011091	2	Spring washer M6	
④	011090	2	Plain washer M6	
⑤	010930	1	Adapter $\frac{3}{8}$ " BSP x $\frac{5}{8}$ " hose tail	
⑥	000202	1	O-clip $\frac{7}{8}$ "	
⑦	034465	1.5m	$\frac{5}{8}$ " clear plastic PVC tube	
⑧	025335	1	Ball $\frac{1}{2}$ " plastic	
⑨	012542	1	Grommet 1"	
⑩	010930	1	Adapter $\frac{3}{8}$ " BSP x $\frac{5}{8}$ " hose tail	
⑪	000202	1	O-clip $\frac{7}{8}$ "	
⑫	010913	1	Elbow M/F $\frac{3}{8}$ " BSP	
⑬	011242	1	Plug $\frac{3}{8}$ " BSP	
⑭	011153	1	Dowty seal $\frac{3}{8}$ " BSP	

Water tank breather

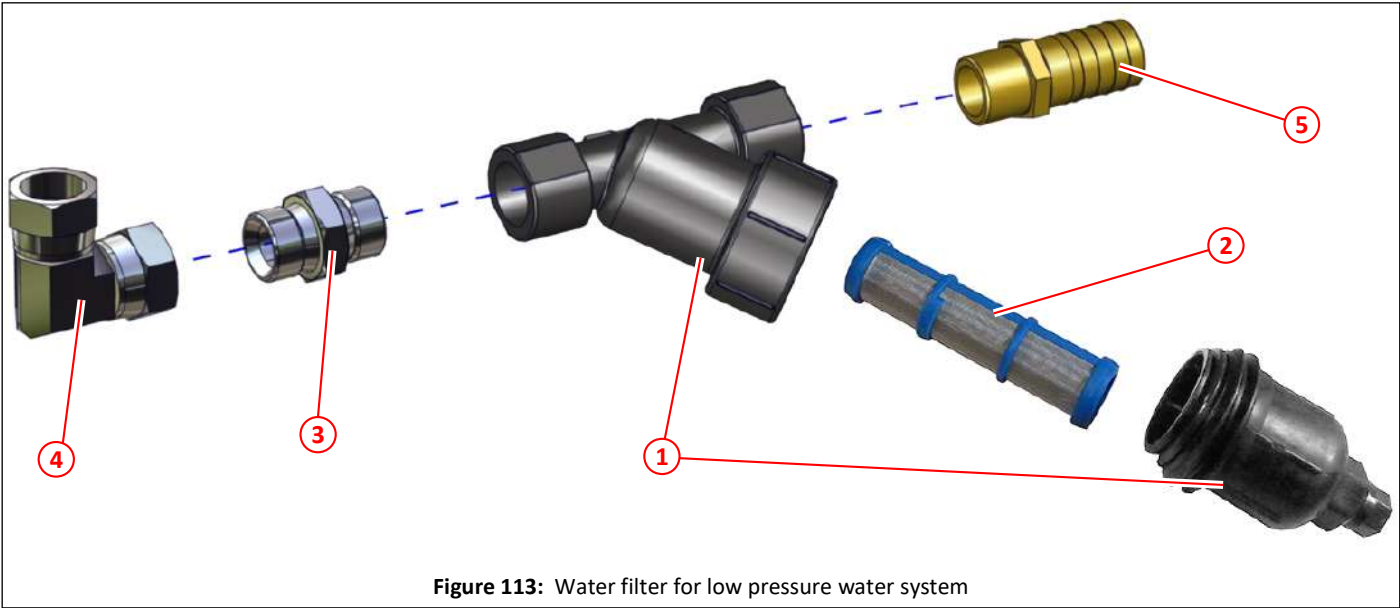


i Left hand drive version shown, right hand drive version is opposite.

Figure 112: Water tank breather

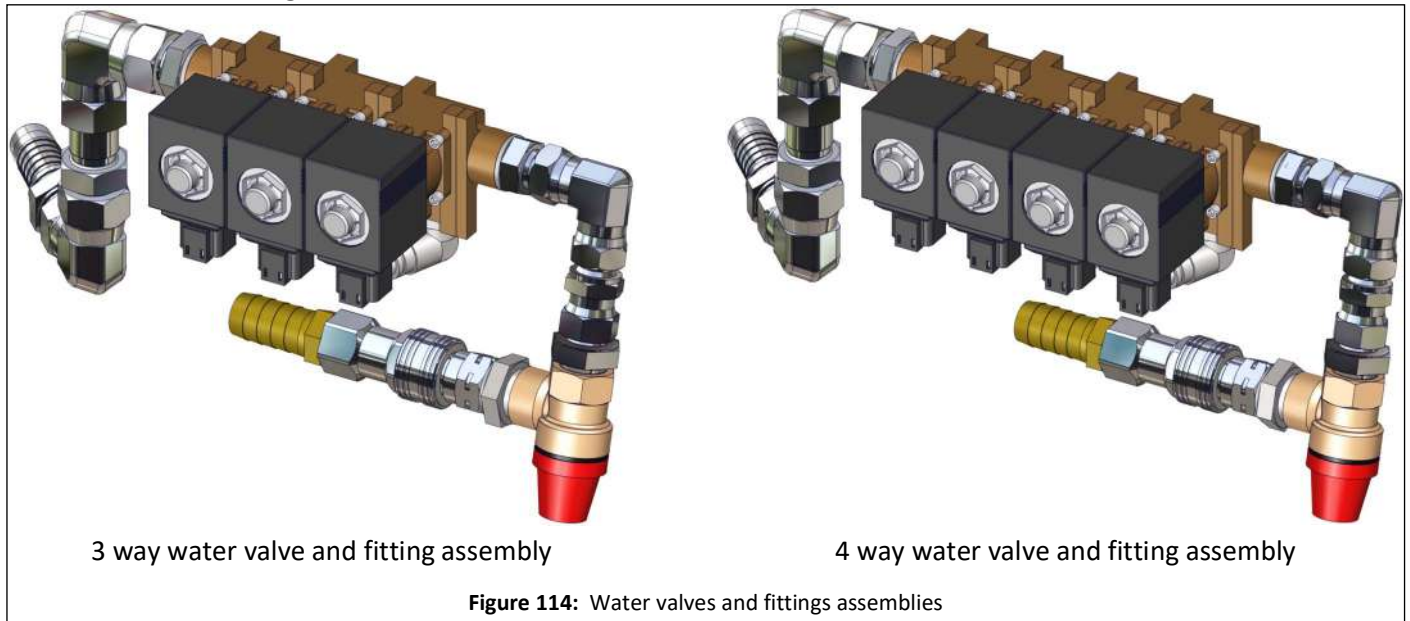
Item	Part No	Qty	Description	
①	001045	1.5m	Hose, green $\phi 1\frac{1}{2}$ " ID	
②	003015	1	Elbow M/F $1\frac{1}{2}$ " BSP	
③	002051	1	Adapter $1\frac{1}{2}$ " BSP male x $1\frac{1}{2}$ " hose tail	
④	003007	2	Clamp, worm drive No. 2A [35 - 50]	
⑤	005055	4	P-clip $\phi 50$ ID	
⑥	000254	4	Plain washer M6, stainless steel	
⑦	000220	4	Rivet aluminium $\frac{3}{16}$ " x 28	
⑧	002231	1	Plug $1\frac{1}{2}$ " BSP	
⑨	002072	1	Dowty seal $1\frac{1}{2}$ " BSP	

Water filter for low pressure water system



Item	Part No	Qty	Description	
①	010121	1	Water filter strainer, contains item ②	140
②	021223	1	Water filter strainer element	
③	011161	1	Adapter $\frac{3}{4}$ " BSP	
④	011213	1	Swivel elbow $\frac{3}{4}$ " BSP	
⑤	010931	1	Adapter male $\frac{3}{4}$ " BSP x 1" hose tail	
	043354	1	Water filter assembly for low pressure, items ①, ②, ③, ④ and ⑤	

Water valves and fittings assemblies



Item	Part No	Qty	Description	
①	044172	1	3 way water valve and fittings assembly, complete as shown	
②	044173	1	4 way water valve and fittings assembly, complete as shown	

i For the fitting part numbers see “Water valve fittings” on pages 146 and 147.

Water valve fittings

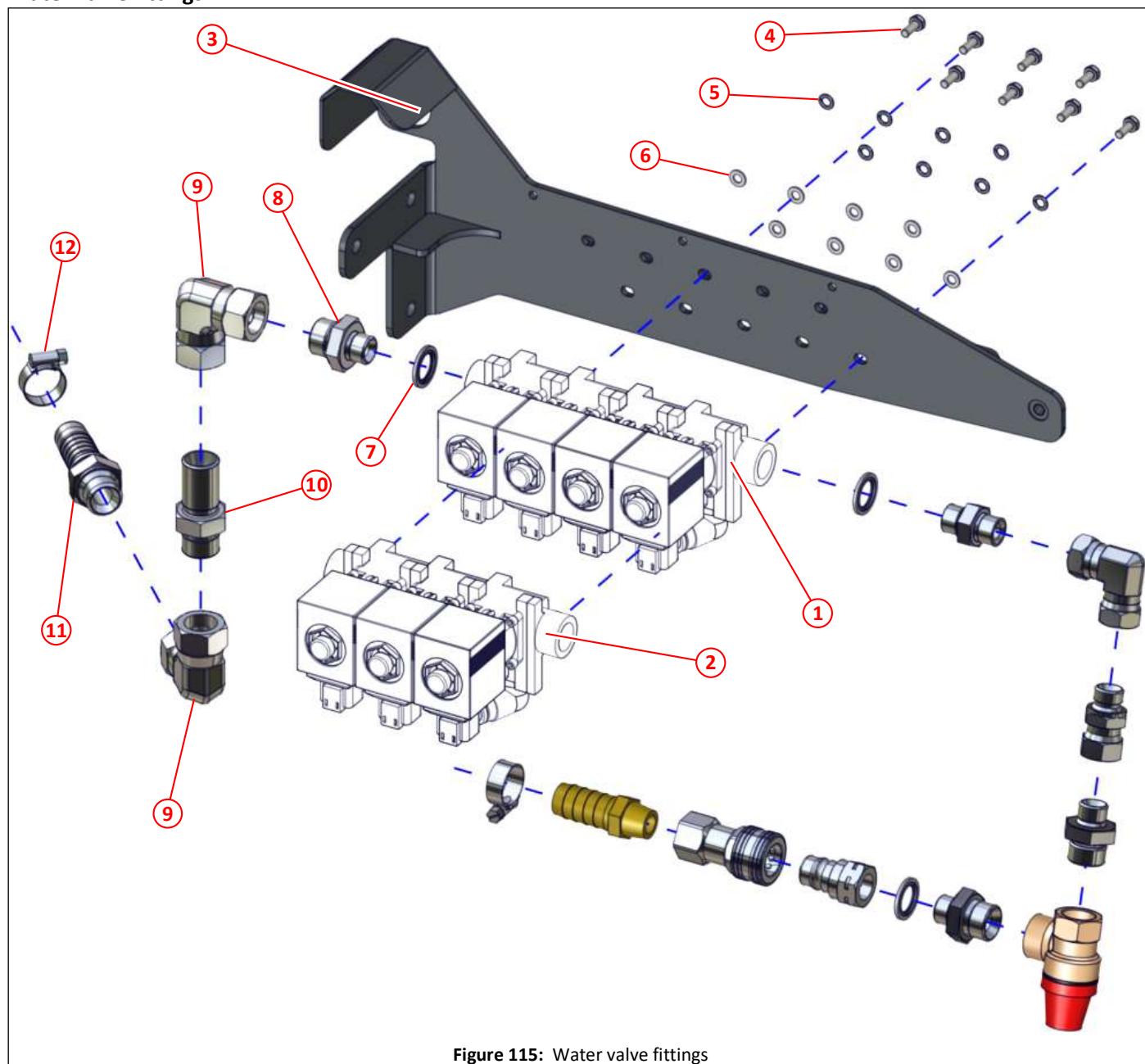


Figure 115: Water valve fittings

Item	Part No	Qty	Description	
①	042924	1	Water valve assembly, 4 way	149
②	042923	1	Water valve assembly, 3 way	148
③	041930	1	Water valve and hopper sensor bracket	
④	000097	2	Bolt M5 x 12, quantity per water valve	
⑤	000411	2	Spring washer, quantity per water valve	
⑥	000410	2	Plain washer M5, quantity per water valve	
⑦	011153	1	Dowty seal $\frac{3}{8}$ " BSP	
⑧	011167	1	Adapter $\frac{1}{2}$ " BSP x $\frac{3}{8}$ " BSP	
⑨	002098	2	Swivel elbow F/F $\frac{1}{2}$ " BSP	
⑩	011268	1	Bulkhead Adapter $\frac{1}{2}$ " BSP	
⑪	002254	1	Adapter hose tail $\frac{1}{2}$ " BSP x $\frac{3}{4}$ " hose	
⑫	010517	1	Worm drive hose clip No OX (18 - 25)	
NI	002188	As req	Hose $\frac{3}{4}$ " R6, black, to and from water pump	

Water valve fittings

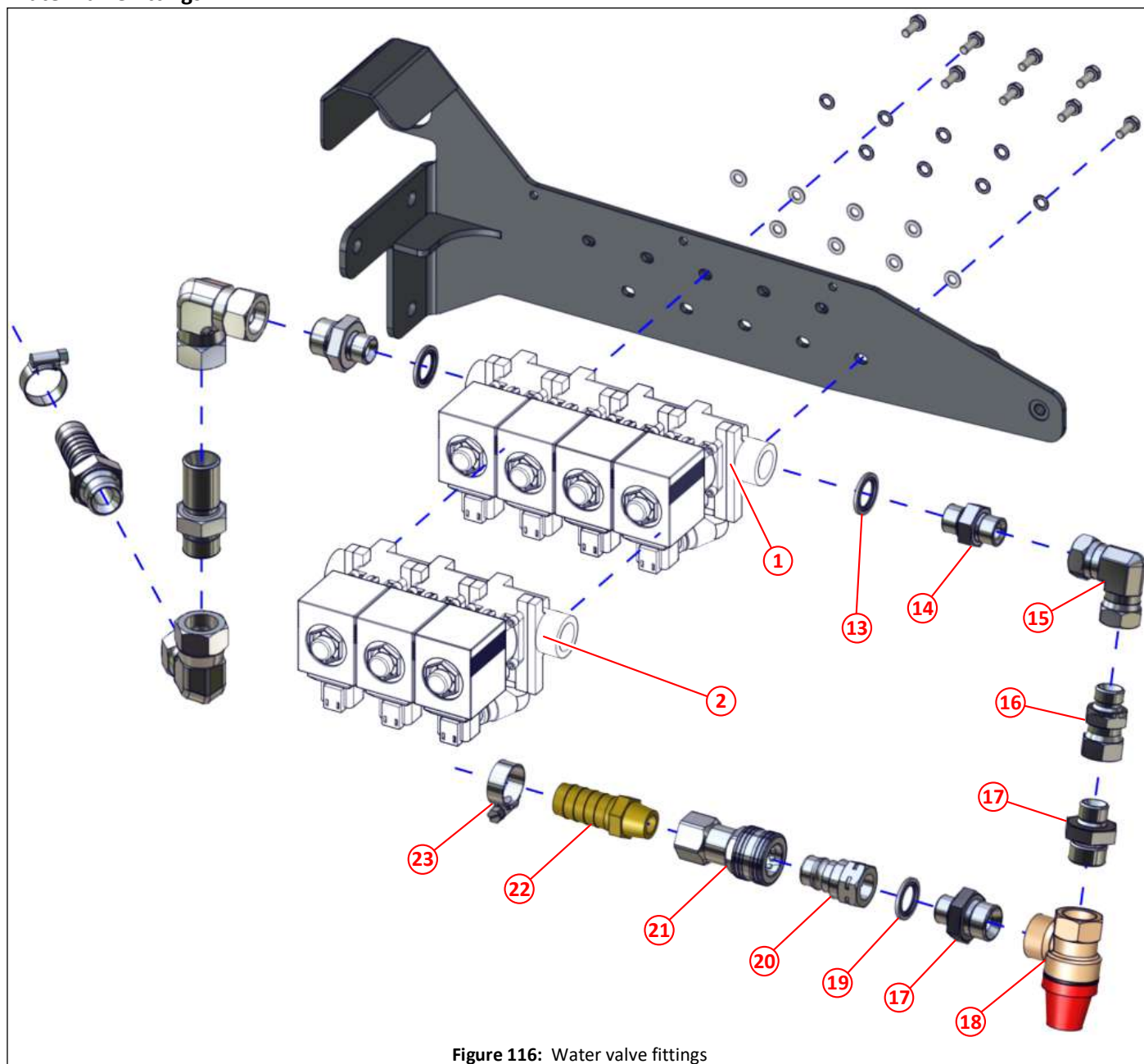


Figure 116: Water valve fittings

Item	Part No	Qty	Description	
①	042924	1	Water valve assembly, 4 way shown	149
②	042923	1	Water valve assembly, 3 way	148
⑬	011153	1	Dowty seal $\frac{3}{8}$ " BSP	
⑭	011159	1	Adapter $\frac{3}{8}$ " BSP	
⑮	011205	1	Swivel elbow F/F $\frac{3}{8}$ " BSP	
⑯	002144	1	$\frac{3}{8}$ " BSP M/F straight connector	
⑰	011167	2	Adapter $\frac{1}{2}$ " BSP x $\frac{3}{8}$ " BSP	
⑱	030741	1	Pressure regulator valve	
⑲	011153	1	Dowty seal $\frac{3}{8}$ " BSP	
⑳	023359	1	Quick release coupling male $\frac{3}{8}$ " BSP	
㉑	023360	1	Quick release coupling female $\frac{3}{8}$ " BSP	
㉒	003040	1	Adapter hose tail $\frac{3}{8}$ " BSPT x 19mm hose	
㉓	010517	1	Worm drive hose clip No OX (18 - 25)	
NI	002188	As req	Hose $\frac{3}{4}$ " R6, black, to and from water pump	

Water valve assembly 3 way

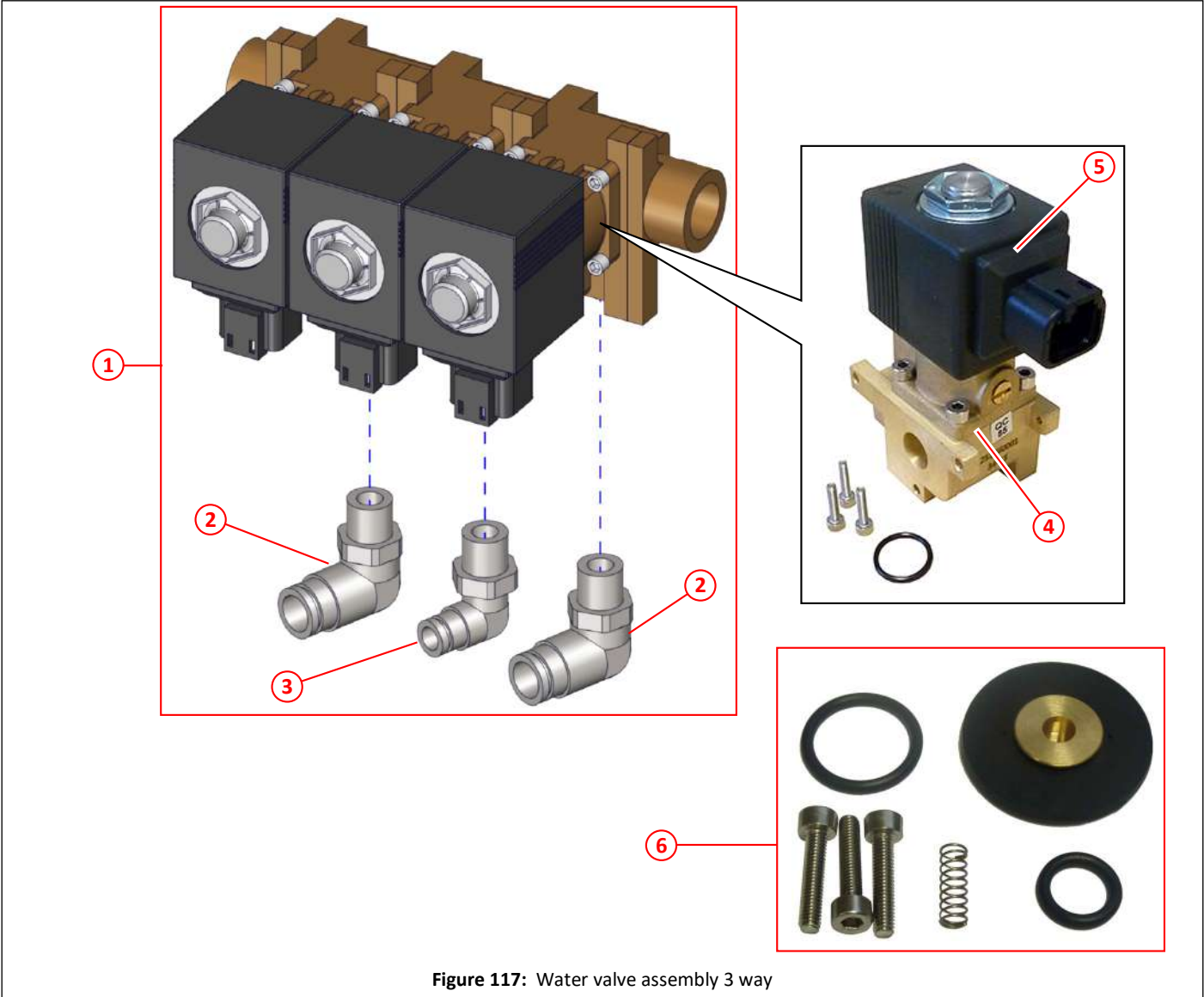


Figure 117: Water valve assembly 3 way

Item	Part No	Qty	Description	
①	042923	1	Water valve assembly, 3 way	145,146,147
②	006060	2	Push in elbow 10mm	
③	006016	1	Push in elbow 6mm- ¹ / ₄ "	
NI	041031	As req	Nylon pipe, blue, ø10mm OD	
NI	035733	As req	.Nylon pipe, blue, ø6mm OD	
④	038368	1	Water valve, complete with seal, screws and coil ⑤	
⑤	038371	1	Coil 12v 8w, Deutsch	
⑥	034624	1	Repair kit	

Water valve assembly 4 way

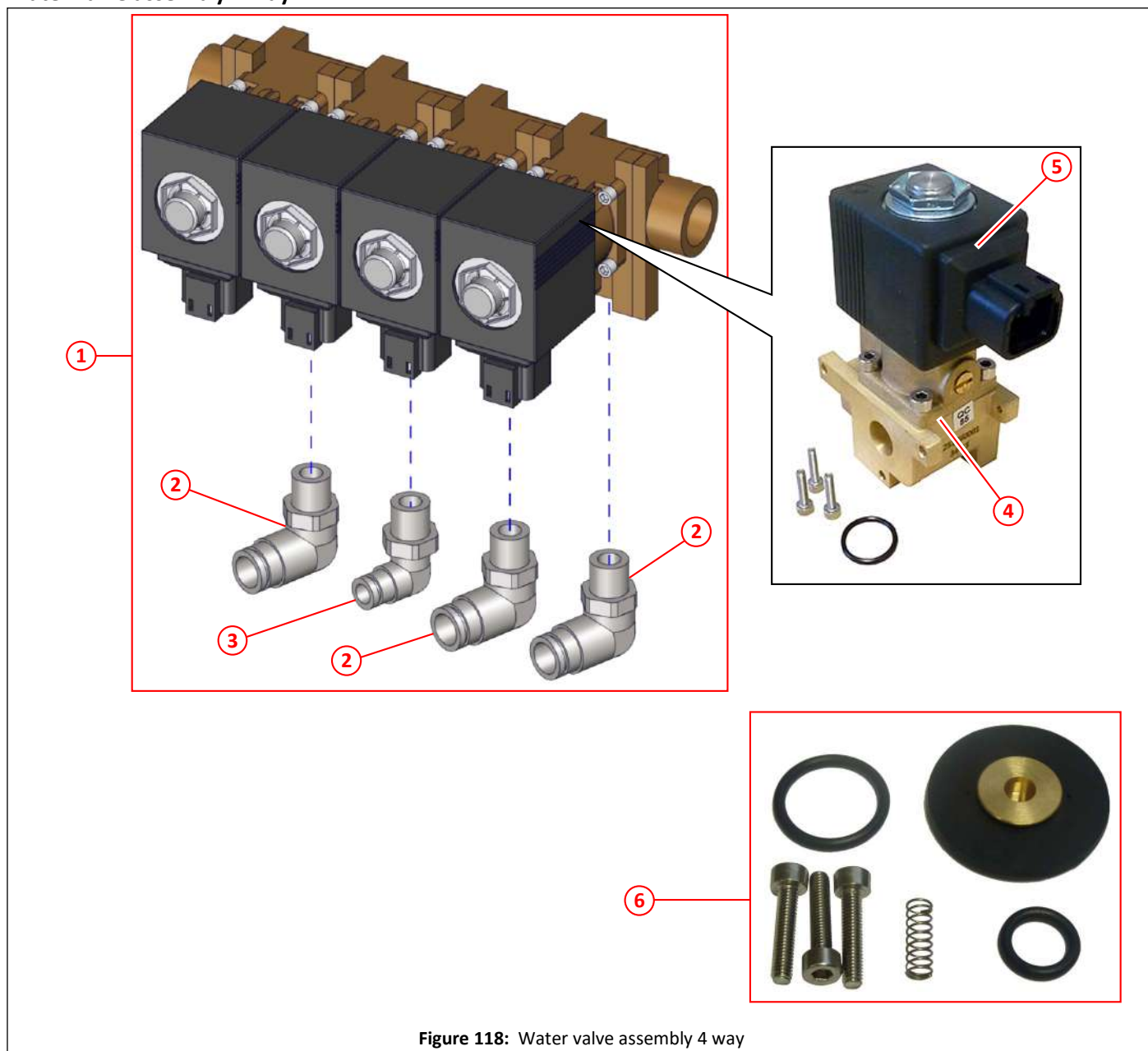
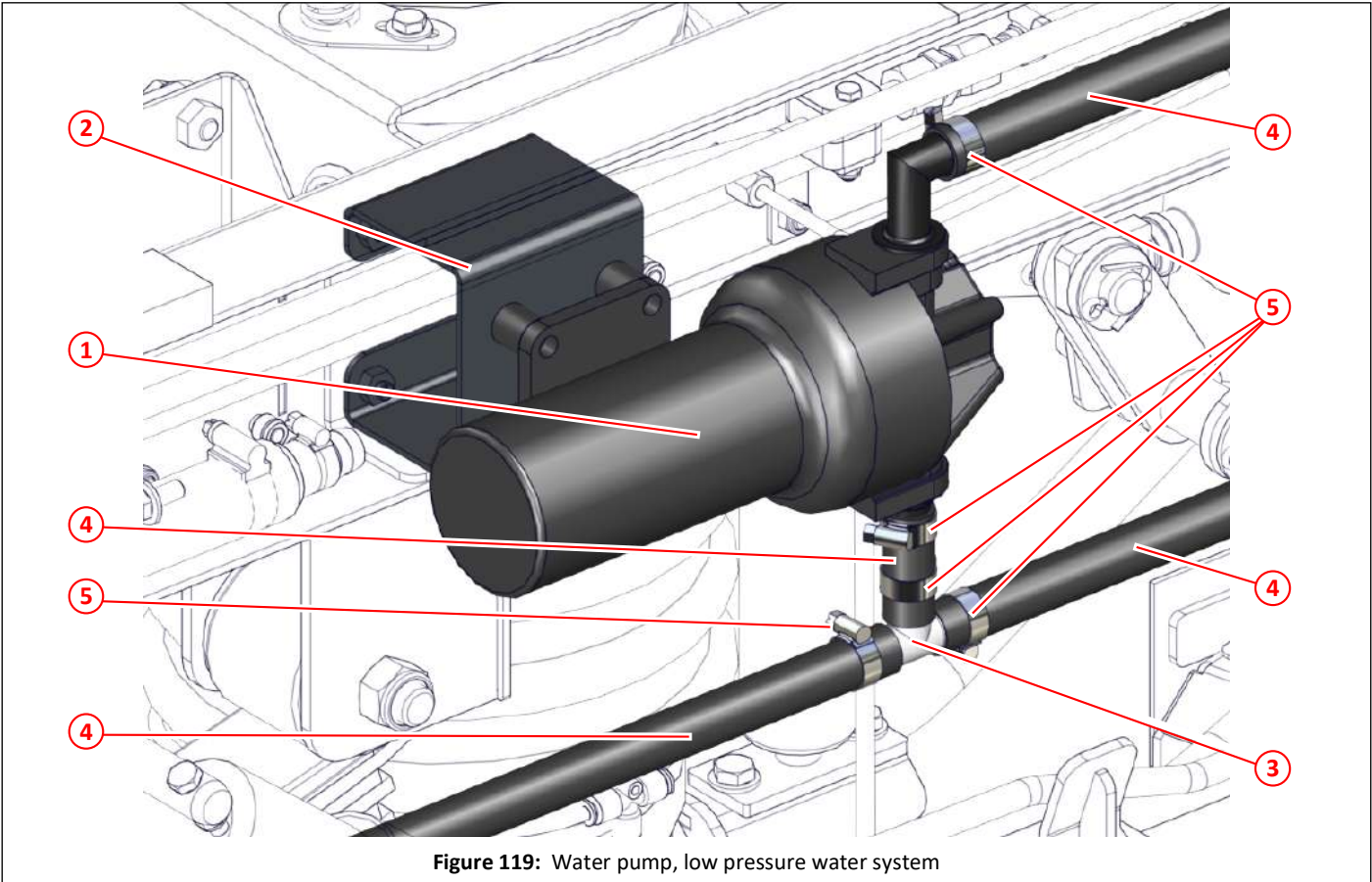


Figure 118: Water valve assembly 4 way

Item	Part No	Qty	Description	
①	042924	1	Water valve assembly, 4 way	145,146,147
②	006060	2	Push in elbow 10mm	
③	006016	1	Push in elbow 6mm- $\frac{1}{4}$ "	
NI	041031	As req	Nylon pipe, blue, $\varnothing$ 10mm OD	
NI	035733	As req	.Nylon pipe, blue, $\varnothing$ 6mm OD	
④	038368	1	Water valve, complete with seal, screws and coil ⑤	
⑤	038371	1	Coil 12v 8w, Deutsch	
⑥	034624	1	Repair kit	

Water pump, low pressure water system



Item	Part No	Qty	Description	
①	042278	1	Water pump, electric 12V, complete with straight and 90° connectors	240
②	042043	1	Bracket, water pump	
③	031510	1	Plastic tee 19 x 19 x 19	
④	002188	As req	Hose $\frac{3}{4}$ " R6	
⑤	010517	5	Worm drive hose clip No OX (18 - 25)	

Front spray bar, low pressure water system

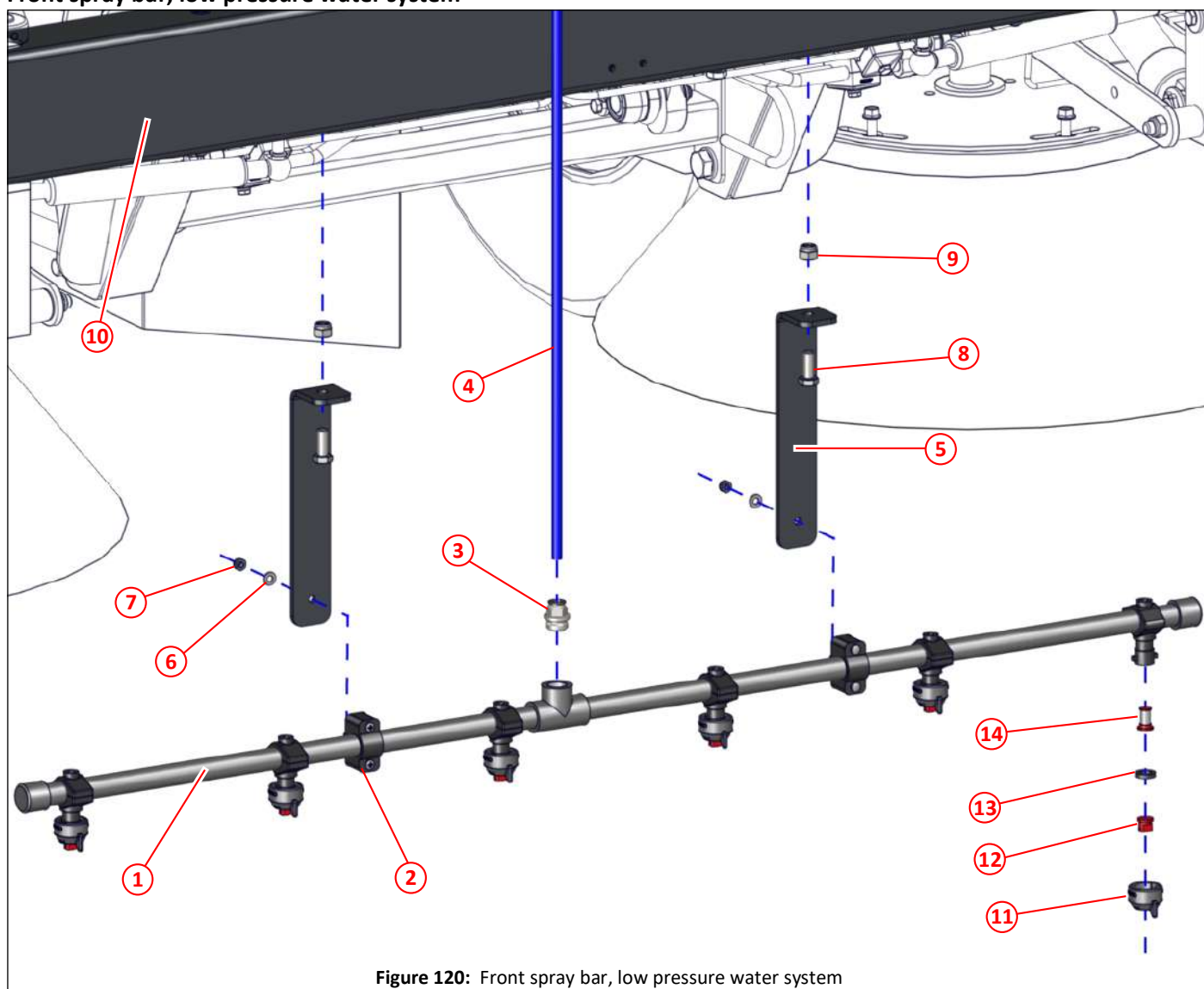


Figure 120: Front spray bar, low pressure water system

Item	Part No	Qty	Description	
①	040809	1	Low pressure spray bar, 6 nozzles	
②	031417	2	Fixing bracket for low pressure spray bar.	
③	041028	1	1/2" BSP to ø10mm push in Adapter	
④	041031	As req	Nylon pipe, blue, ø10mm OD	
⑤	042618	2	Bracket, low pressure spray bar	
⑥	011090	2	Plain washer M6	
⑦	011071	2	M6 Nyloc nut	
⑧	011031	2	Set screw M10 x 25	
⑨	011075	2	M10 Nyloc nut	
⑩	044417	1	Front bumper	
⑪	030635*	1	Nozzle cap	
⑫	030637*	1	Spray nozzle red	
⑬	030636*	1	Rubber seal	
⑭	030633*	1	Filter, 100 mesh	

i * = Quantity required per nozzle.

Suction nozzle low pressure water nozzle

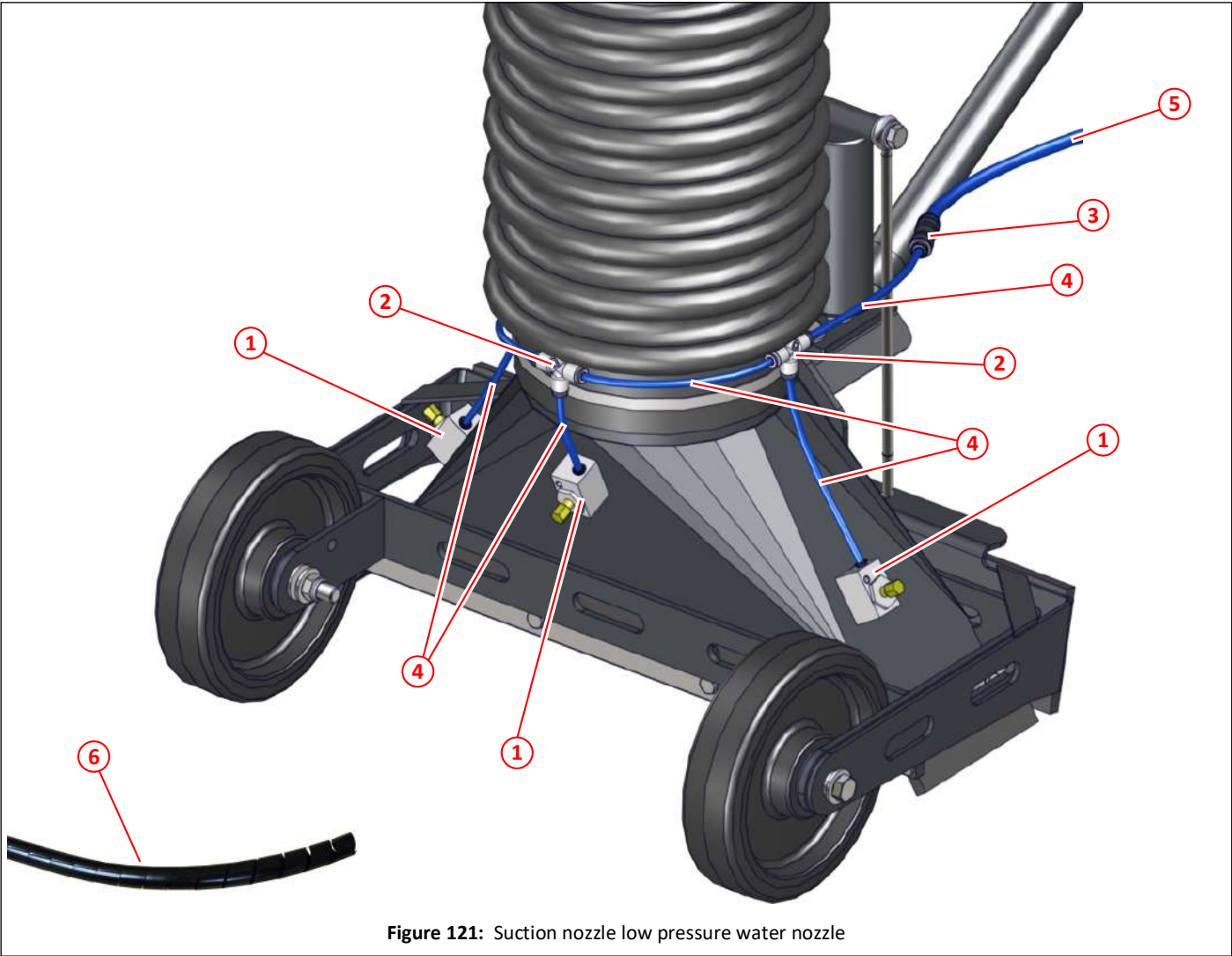


Figure 121: Suction nozzle low pressure water nozzle

Item	Part No	Qty	Description	
①	034342	3	Low pressure water nozzle	
②	024647	2	Tee 6mm push in	
③	041029	1	Straight connector 10mm to 6mm push in	
④	035733	As req	.Nylon pipe, blue, ø6mm OD	
⑤	041031	As req	Nylon pipe, blue, ø10mm OD	
⑥	012674	As req	Protective helix black	

Side brush low pressure water nozzle

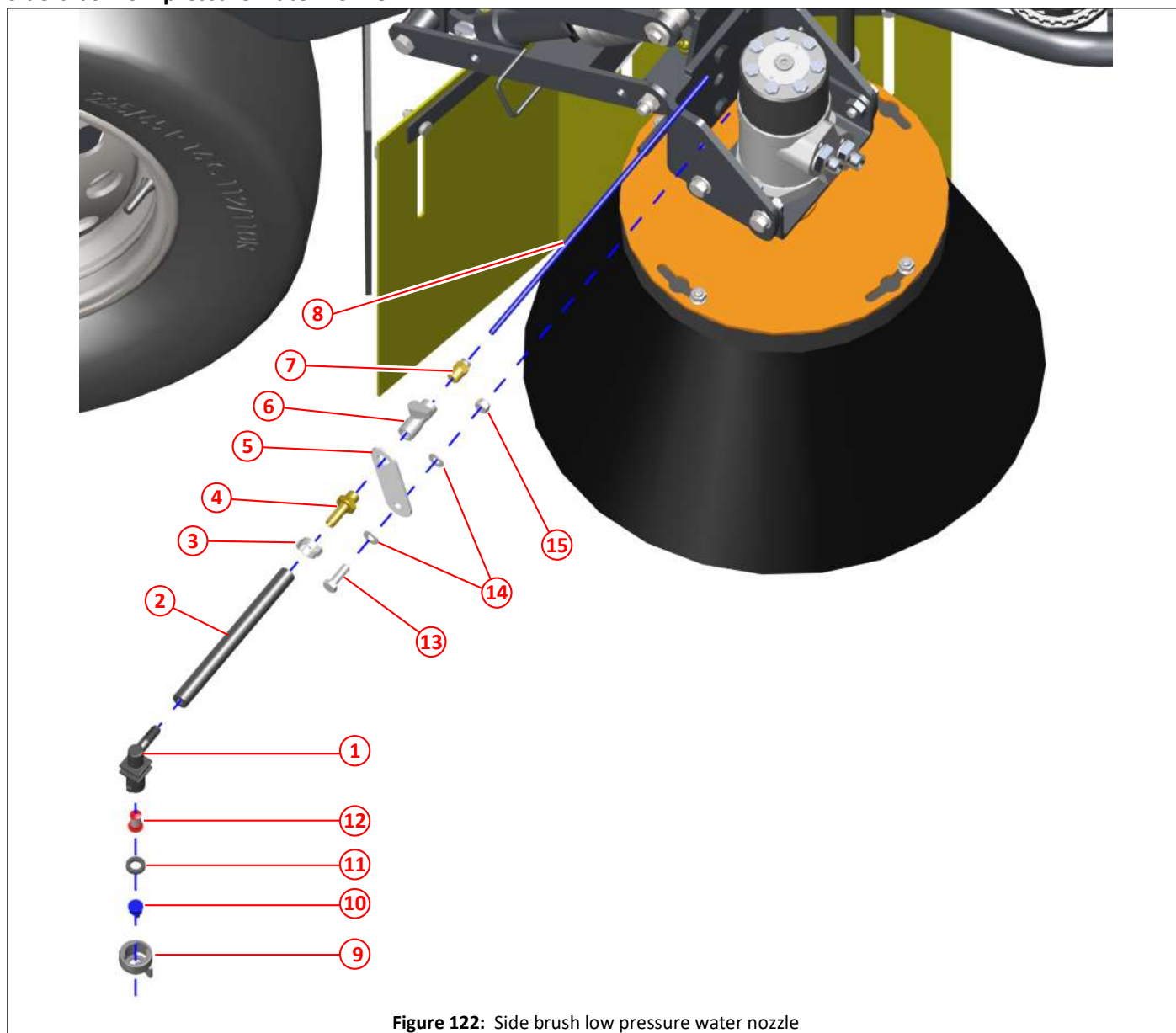


Figure 122: Side brush low pressure water nozzle

Item	Part No	Qty	Description	
①	030747	1	Nozzle holder 90° brush spray	
②	030663	1	Hose $\frac{3}{8}$ " x 180mm	
③	031072	1	'O' clip $\varnothing$ 15-18mm	
④	010922	1	Adapter hose tail $\frac{1}{4}$ " BSP x $\frac{3}{8}$ " hose	
⑤	044669	1	Mount, brush nozzle	
⑥	033433	1	Ball valve $\frac{1}{4}$ " BSP	
⑦	024644	1	Straight connector $\frac{1}{4}$ " BSP x 6mm push in	
⑧	035733	As req	Nylon pipe, blue, $\varnothing$ 6mm OD	
⑨	030746	1	Nozzle cap	
⑩	030748	1	Spray nozzle blue	
⑪	030636	1	Rubber seal	
⑫	030633	1	Filter, 100 mesh	
⑬	011011	1	Set screw M8 x 25	
⑭	011092	2	Plain washer M8	
⑮	011073	1	M8 Nyloc nut	
NI	044670	1	Brush water nozzle assembly complete, excludes items ⑬, ⑭ & ⑮	

Front brush low pressure water spray

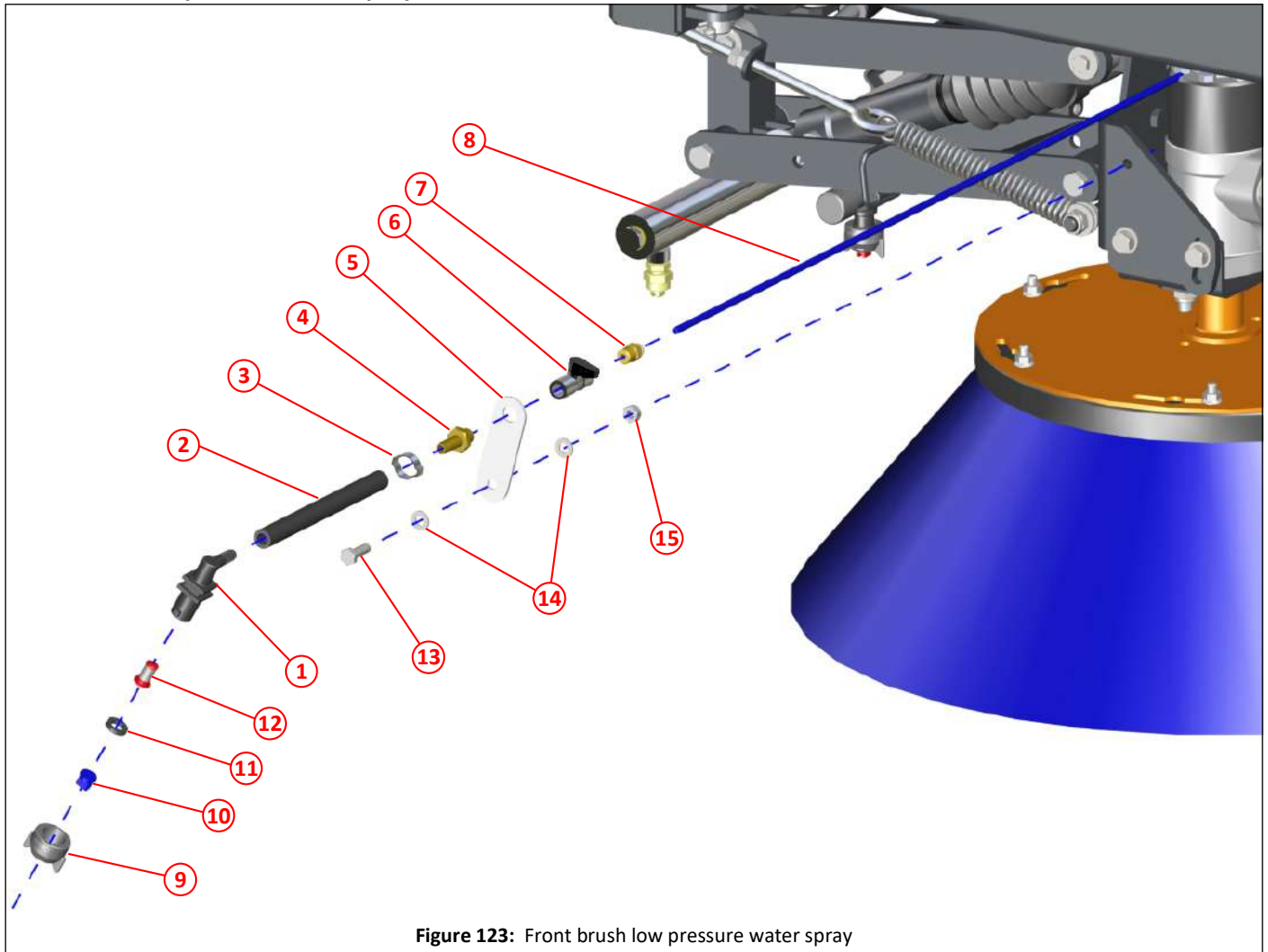


Figure 123: Front brush low pressure water spray

Item	Part No	Qty	Description	
①	030747	1	Nozzle holder 90° brush spray	
②	030663	1	Hose $\frac{3}{8}$ " x 180mm	
③	031072	1	'O' clip $\varnothing$ 15-18mm	
④	010922	1	Adapter hose tail $\frac{1}{4}$ " BSP x $\frac{3}{8}$ " hose	
⑤	044669	1	Bracket, brush nozzle	
⑥	033433	1	Ball valve $\frac{1}{4}$ " BSP	
⑦	024644	1	Straight connector $\frac{1}{4}$ " BSP x 6mm push in	
⑧	035733	As req	Nylon pipe, blue, $\varnothing$ 6mm OD	
⑨	030746	1	Nozzle cap	
⑩	030748	1	Spray nozzle blue	
⑪	030636	1	Rubber seal	
⑫	030633	1	Filter, 100 mesh	
⑬	011011	1	Set screw M8 x 25	
⑭	011092	2	Plain washer M8	
⑮	011073	1	M8 Nyloc nut	
NI	044670	1	Brush water nozzle assembly complete, excludes items ⑧, ⑬, ⑭ & ⑮	

Fixed front brush low pressure water spray

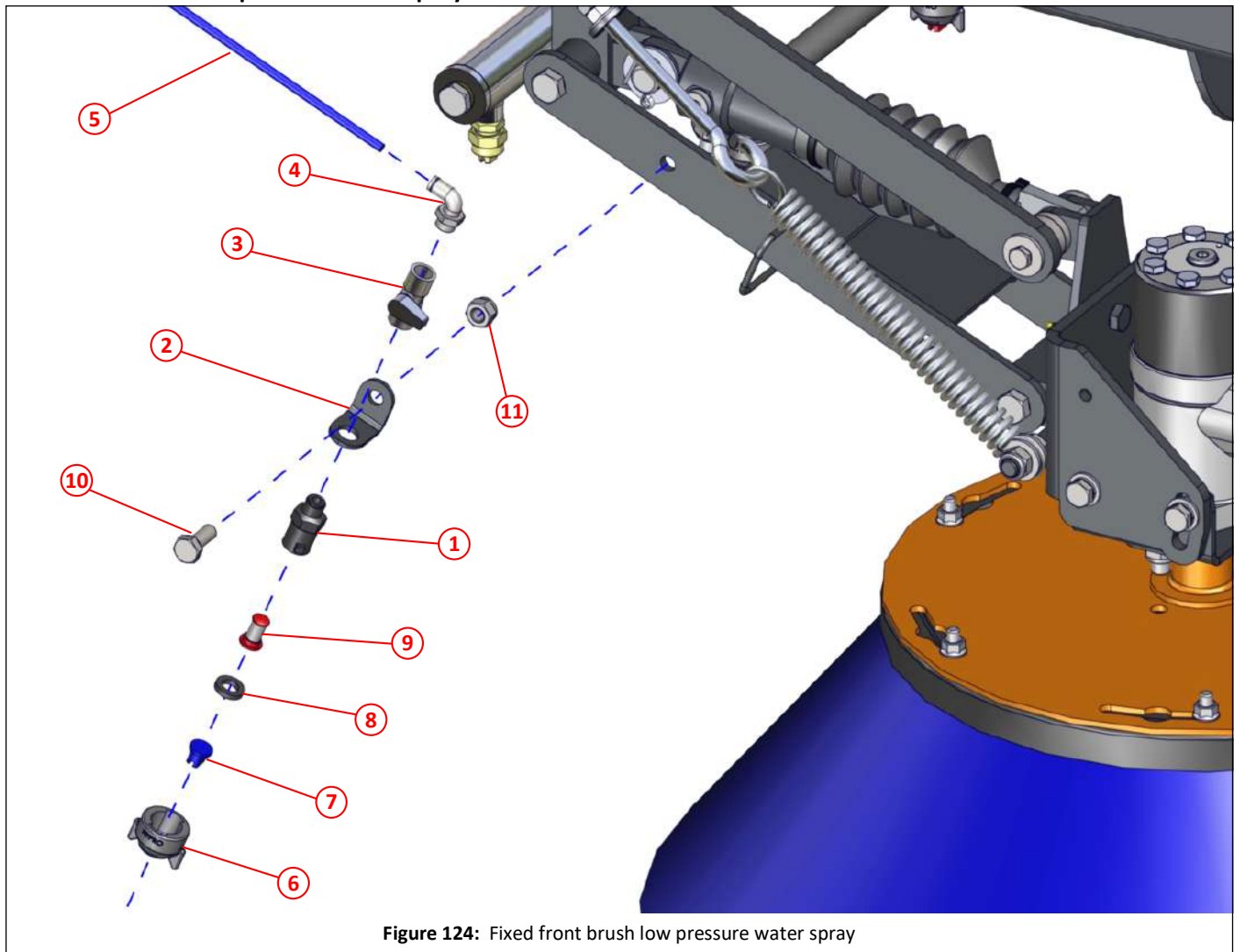
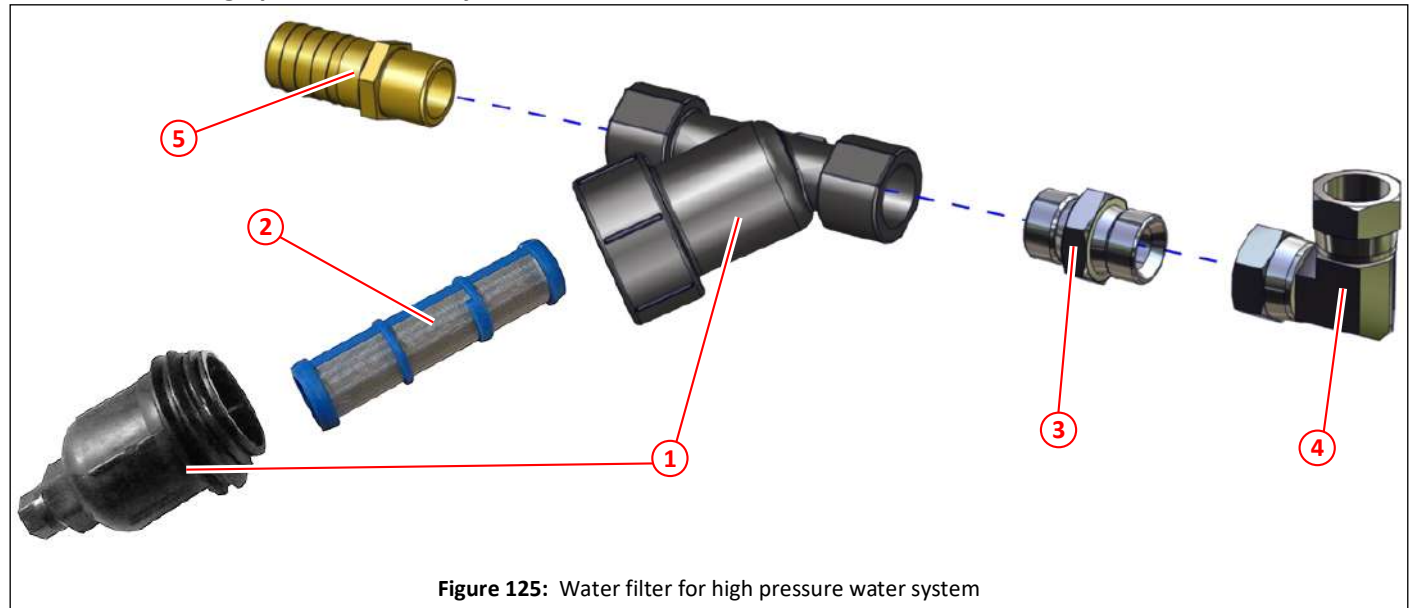


Figure 124: Fixed front brush low pressure water spray

Item	Part No	Qty	Description	
①	030769	1	Nozzle body straight	
②	030892	1	Bracket, brush nozzle	
③	033433	1	Ball valve $\frac{1}{4}$ " BSP	
④	023203	1	Elbow swivel $\frac{1}{4}$ " BSP x 6mm push in	
⑤	035733	As req	Nylon pipe, blue, $\varnothing$ 6mm OD	
⑥	030746	1	Nozzle cap	
⑦	030748	1	Spray nozzle blue	
⑧	030636	1	Rubber seal	
⑨	030633	1	Filter, 100 mesh	
⑩	011031	1	Set screw M10 x 25	
⑪	011075	1	M10 Nyloc nut	
NI	034708	1	Fixed brush water nozzle assembly complete, excludes item ⑤	

Water filter for high pressure water system



Item	Part No	Qty	Description	
①	010121	1	Water filter strainer, contains item ②	140
②	021223	1	Water filter strainer element	
③	011161	1	Adapter $\frac{3}{4}$ " BSP	
④	011213	1	Swivel elbow $\frac{3}{4}$ " BSP	
⑤	010931	1	Adapter hose tail $\frac{3}{4}$ " BSP x 1" hose	
NI	010959	As req	Hose 1"	
NI	010518	1	Worm drive hose clip 1X (30-40)	
	043353	1	Water filter assembly for high pressure, items ①, ②, ③, ④ and ⑤	

Water pump, high pressure water system

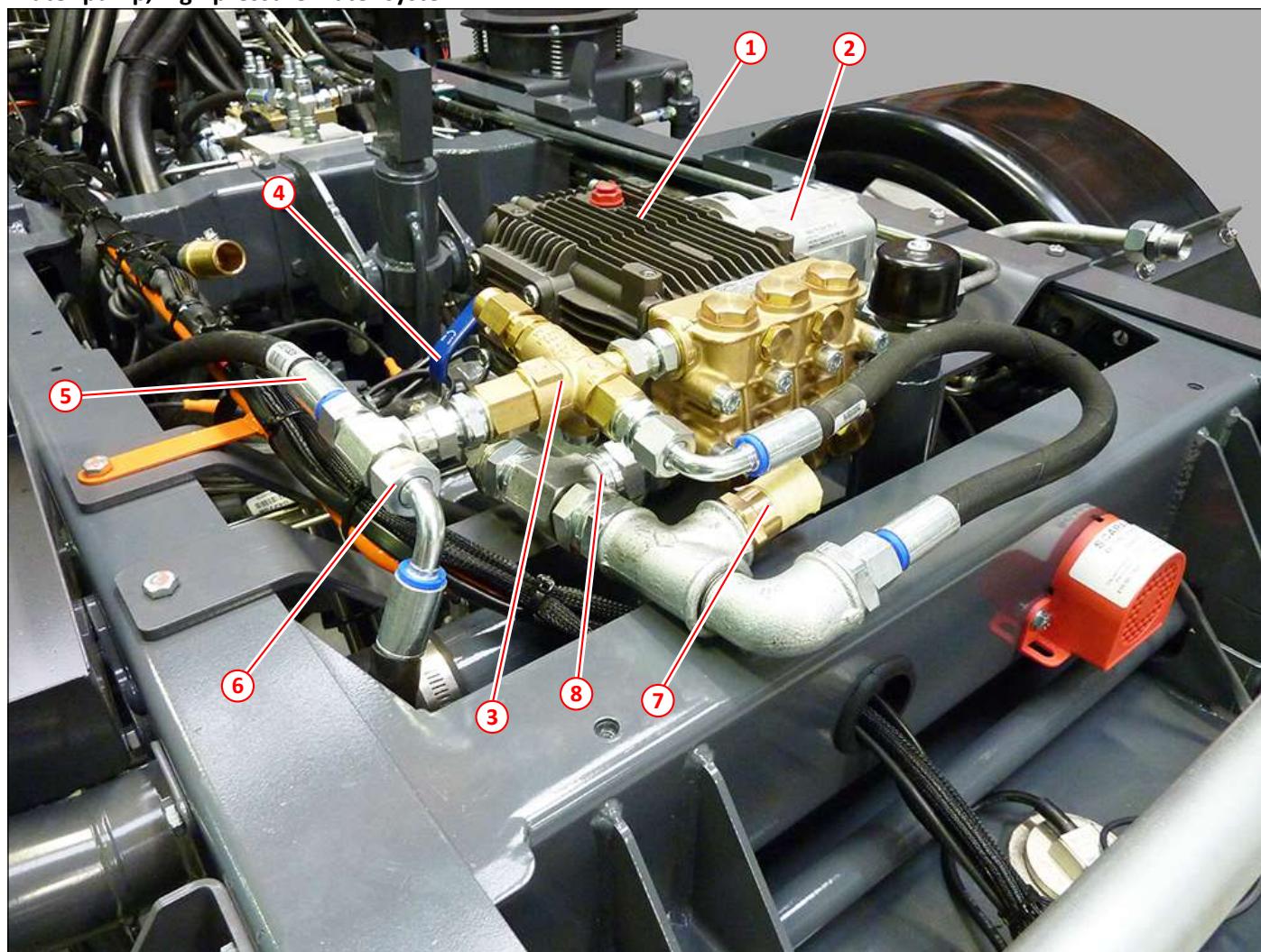


Figure 126: Water pump, high pressure water system

Item	Part No	Qty	Description	
①			High pressure water pump 21 lpm 150 bar	158
②			Hydraulic motor	159,205
③			Unloader valve	160
④			Drain ball valve	161
⑤			Feed to high pressure front spray bar	160
⑥			Feed to high pressure hose and lance	160
⑦			From water tank and filter	161
⑧			Inlet to pump	161

Mountings, high pressure water pump

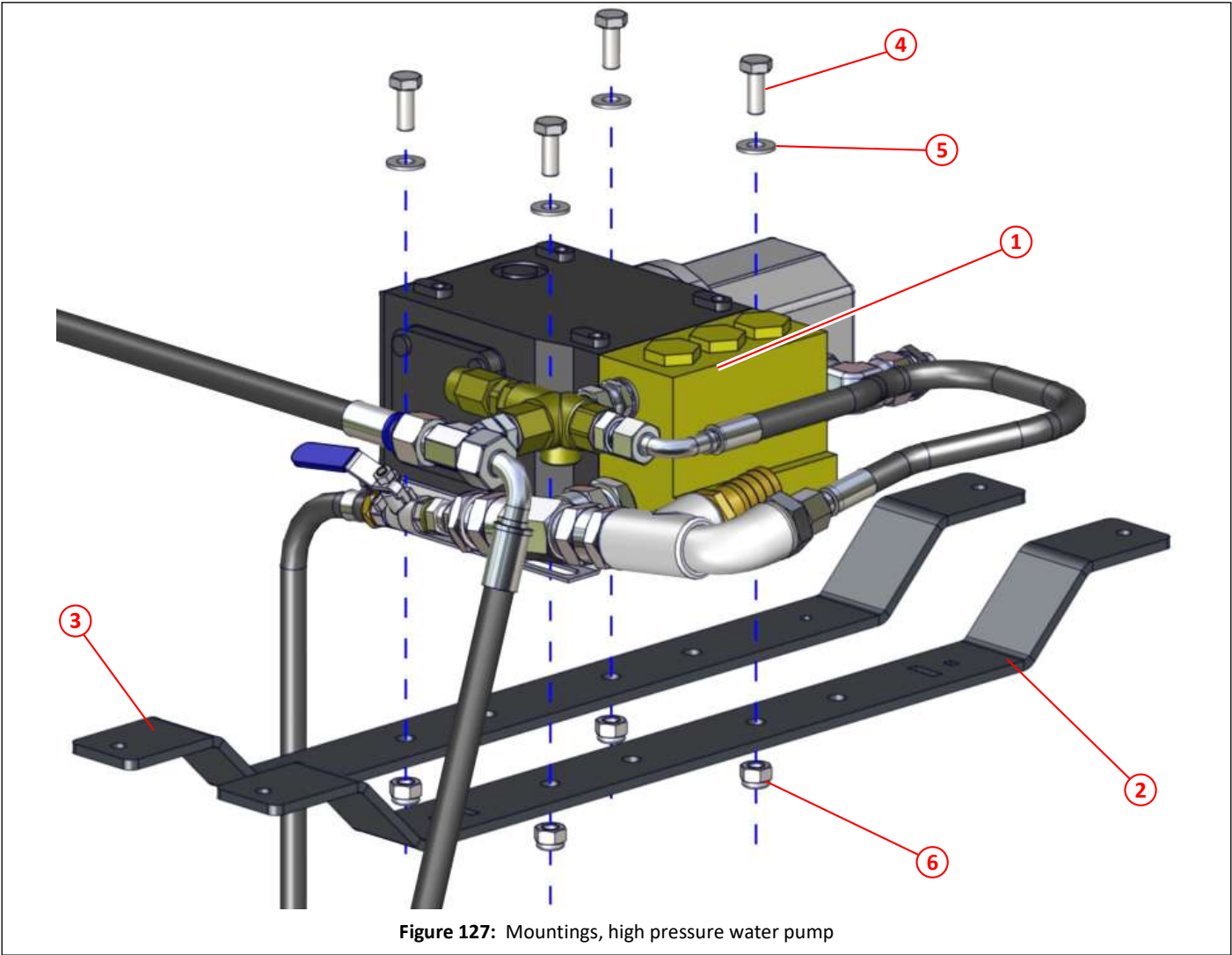


Figure 127: Mountings, high pressure water pump

Item	Part No	Qty	Description	
①	038745	1	High pressure water pump 21 lpm 150 bar, with hydraulic motor	
②	040280	1	High pressure pump mount, rear	
③	041034	1	High pressure pump mount, front	
④	011031	4	Set screw M10 x 25	
⑤	0111094	4	Plain washer M10	
⑥	011075	4	M10 Nyloc nut	

Motor fittings, high pressure water pump

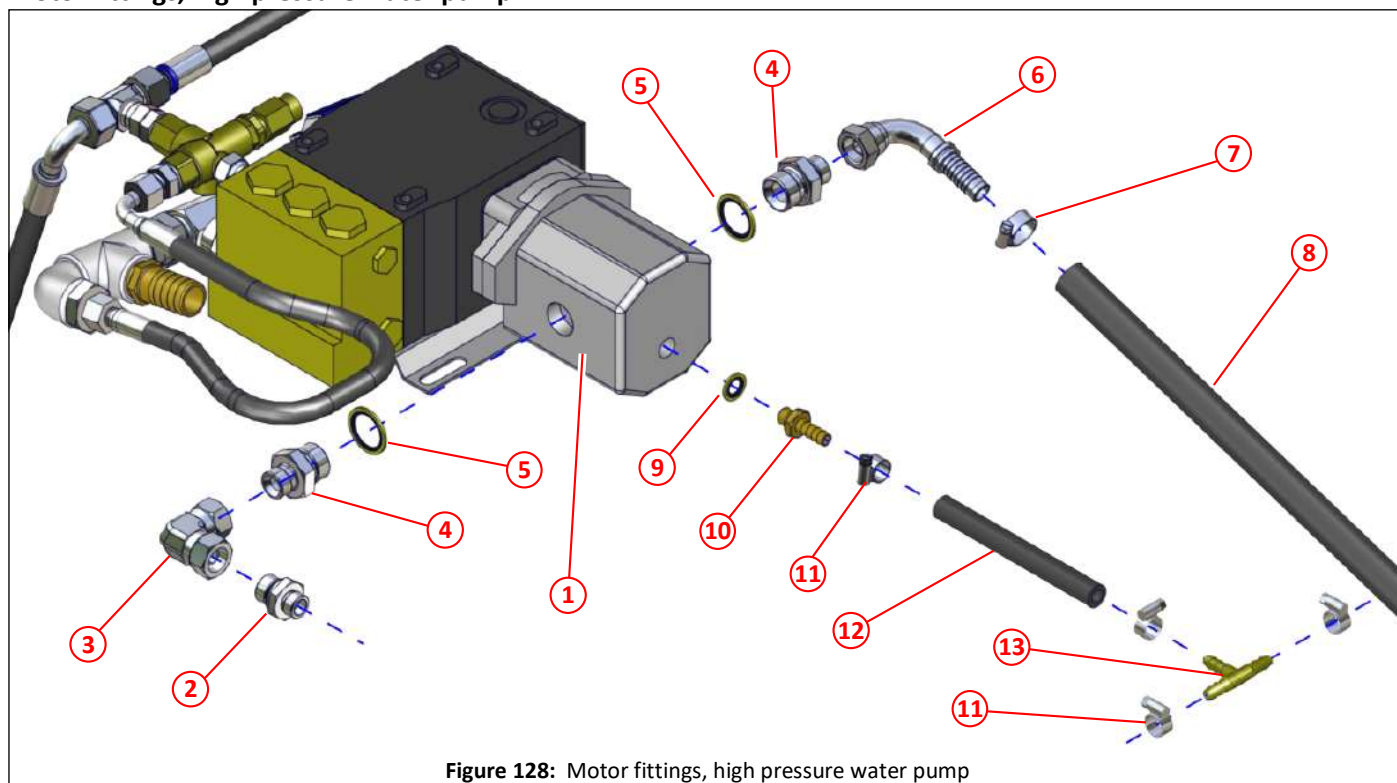


Figure 128: Motor fittings, high pressure water pump

Item	Part No	Qty	Description	
①	045812	1	Motor, 4769	205
②	002107	1	Adapter $\frac{1}{2}$ " BSP	
③	002098	1	Swivel elbow F/F $\frac{1}{2}$ " BSP	
④	011166	2	Adapter $\frac{3}{4}$ " BSP x $\frac{1}{2}$ " BSP	
⑤	011156	2	Dowty seal $\frac{3}{4}$ " BSP	
⑥	011234	1	Elbow $\frac{1}{2}$ " BSP x $\frac{5}{8}$ " hose	
⑦	010517	1	Worm drive hose clip No OX (18 - 25)	
⑧	011000	As req	Hose $\frac{5}{8}$ "	
⑨	011152	1	Dowty seal $\frac{1}{4}$ " BSP	
⑩	010922	1	Adapter hose tail $\frac{1}{4}$ " BSP x $\frac{3}{8}$ " hose	
⑪	010516	4	Worm drive hose clip No MOO [11-16]	
⑫	010958	As req	Hose $\frac{3}{8}$ "	
⑬	003000	1	Tee, $\frac{3}{8}$ " equal, brass	

Unloader valve and output fittings, high pressure water pump

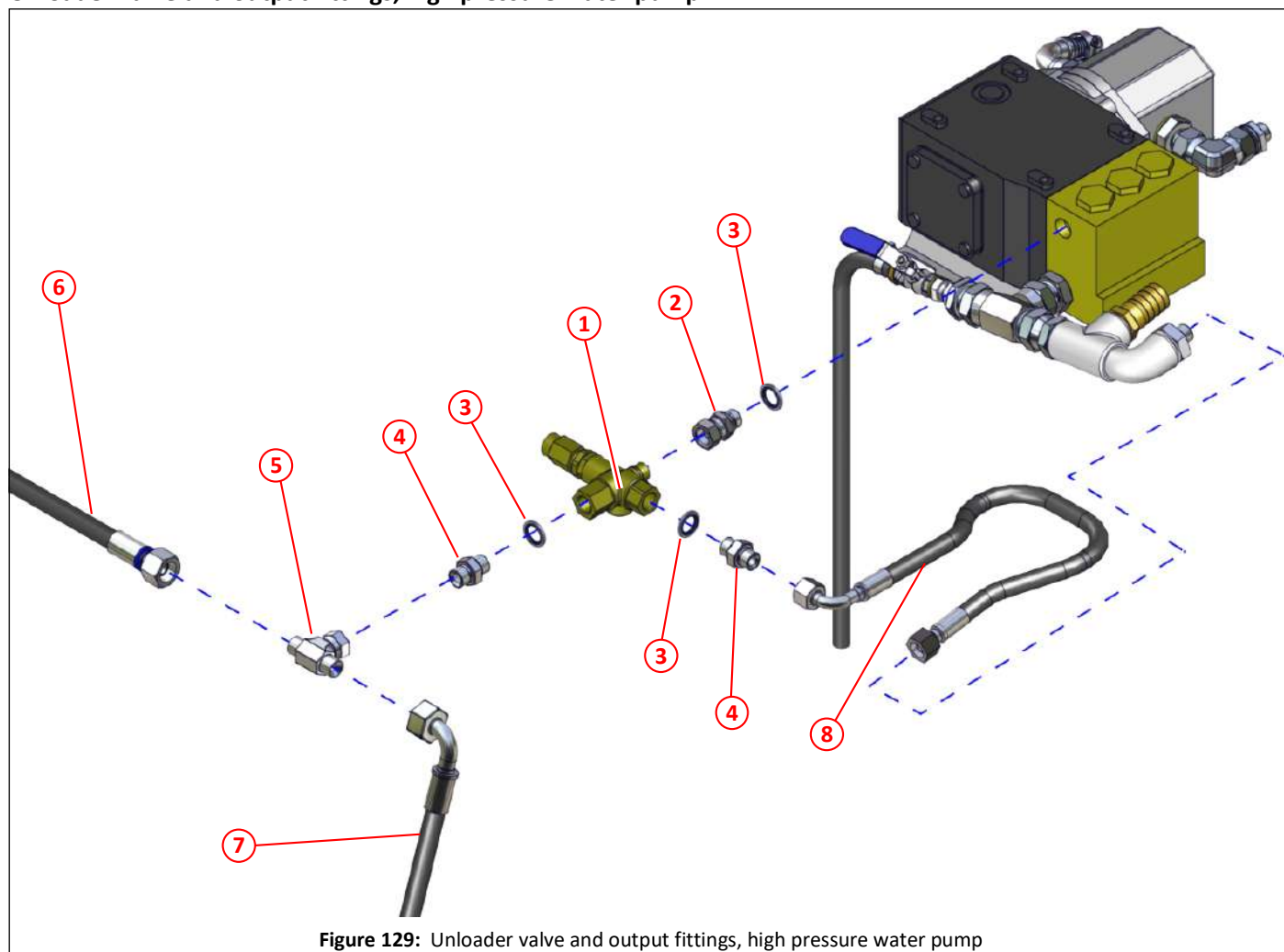


Figure 129: Unloader valve and output fittings, high pressure water pump

Item	Part No	Qty	Description	
①	010599	1	Unloader valve, dual	
②	002144	1	Adapter, swivel M/F $\frac{3}{8}$ " BSP	
③	011153	3	Dowty seal $\frac{3}{8}$ " BSP	
④	011159	2	Adapter $\frac{3}{8}$ " BSP	
⑤	002013	1	Tee $\frac{3}{8}$ " BSP nut on branch	
⑥	001326	1	Hose $\frac{3}{8}$ " BSP x 3650 straight and 90° ends (to HP spray bar)	
⑦	001088	1	Hose $\frac{3}{8}$ " BSP x 580 straight and 90° ends (to HP hose reel and lance)	
⑧	001255	1	Hose $\frac{3}{8}$ " BSP x 475 straight and 90° ends	

Input and drain fittings, high pressure water pump

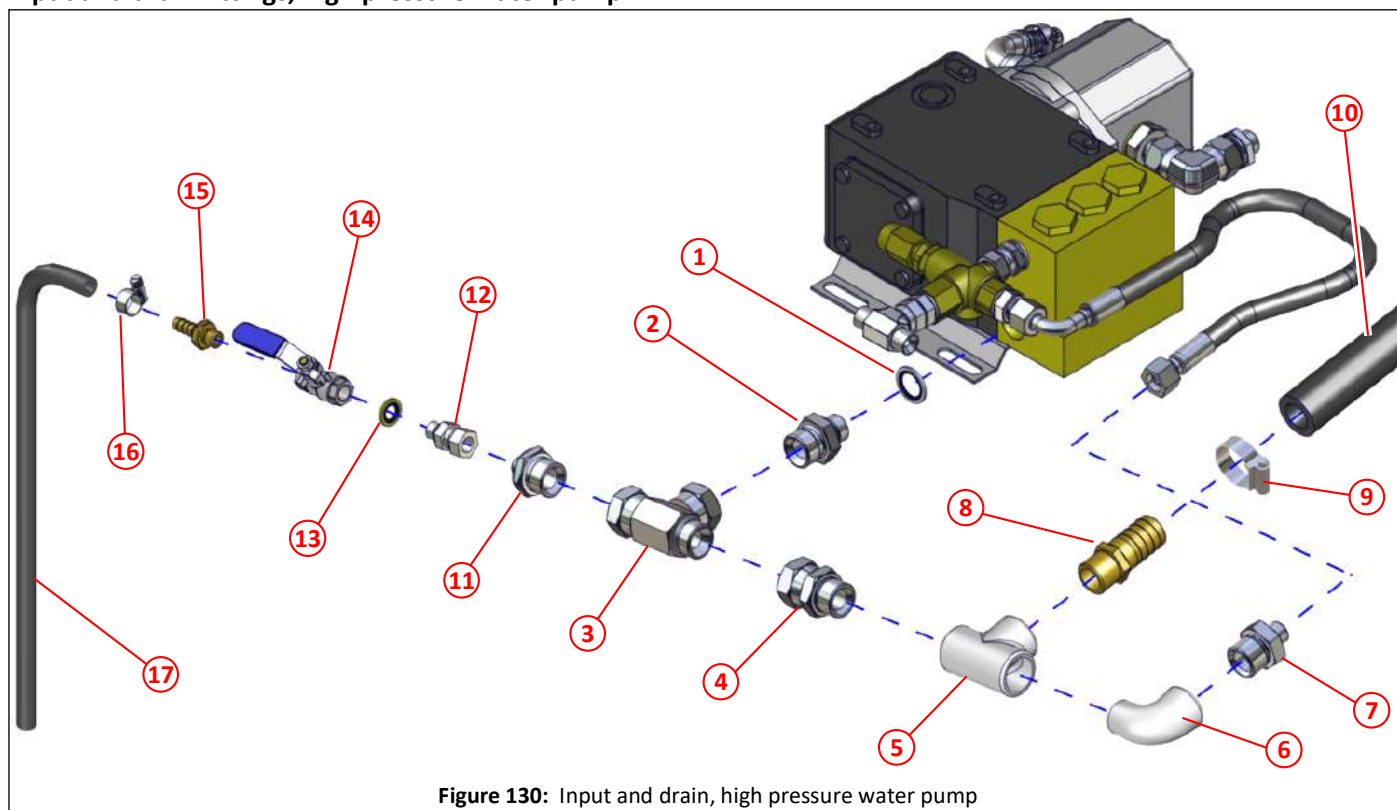


Figure 130: Input and drain, high pressure water pump

Item	Part No	Qty	Description	
①	011154	1	Dowty seal $\frac{1}{2}$ " BSP	
②	011166	2	Adapter $\frac{1}{2}$ " BSP	
③	002233	1	Tee $\frac{3}{4}$ " BSP M/F/F N	
④	012228	1	Adapter, swivel M/F $\frac{3}{4}$ " BSP	
⑤	010919	1	Tee $\frac{3}{4}$ " BSP, galvanised	
⑥	010917	1	Elbow M/F $\frac{3}{4}$ " BSP, galvanised	
⑦	011224	1	Adapter $\frac{3}{4}$ " BSP x $\frac{3}{8}$ " BSP	
⑧	010931	1	Adapter hose tail $\frac{3}{4}$ " BSP x 1" hose	
⑨	010518	1	Worm drive hose clip 1X (30-40)	
⑩	010959	As req	Hose 1"	
⑪	011164	1	Adapter $\frac{3}{4}$ " BSP x $\frac{1}{4}$ " BSP	
⑫	002012	1	Adapter, swivel M/F $\frac{1}{4}$ " BSP	
⑬	011152	1	Dowty seal $\frac{1}{4}$ " BSP	
⑭	011743	1	Ball valve $\frac{1}{4}$ " BSP	
⑮	010922	1	Adapter hose tail $\frac{1}{4}$ " BSP x $\frac{3}{8}$ " hose	
⑯	010516	1	Worm drive hose clip No MOO [11-16]	
⑰	001014	As req	Hose 10mm	

Kit parts, high pressure water pump

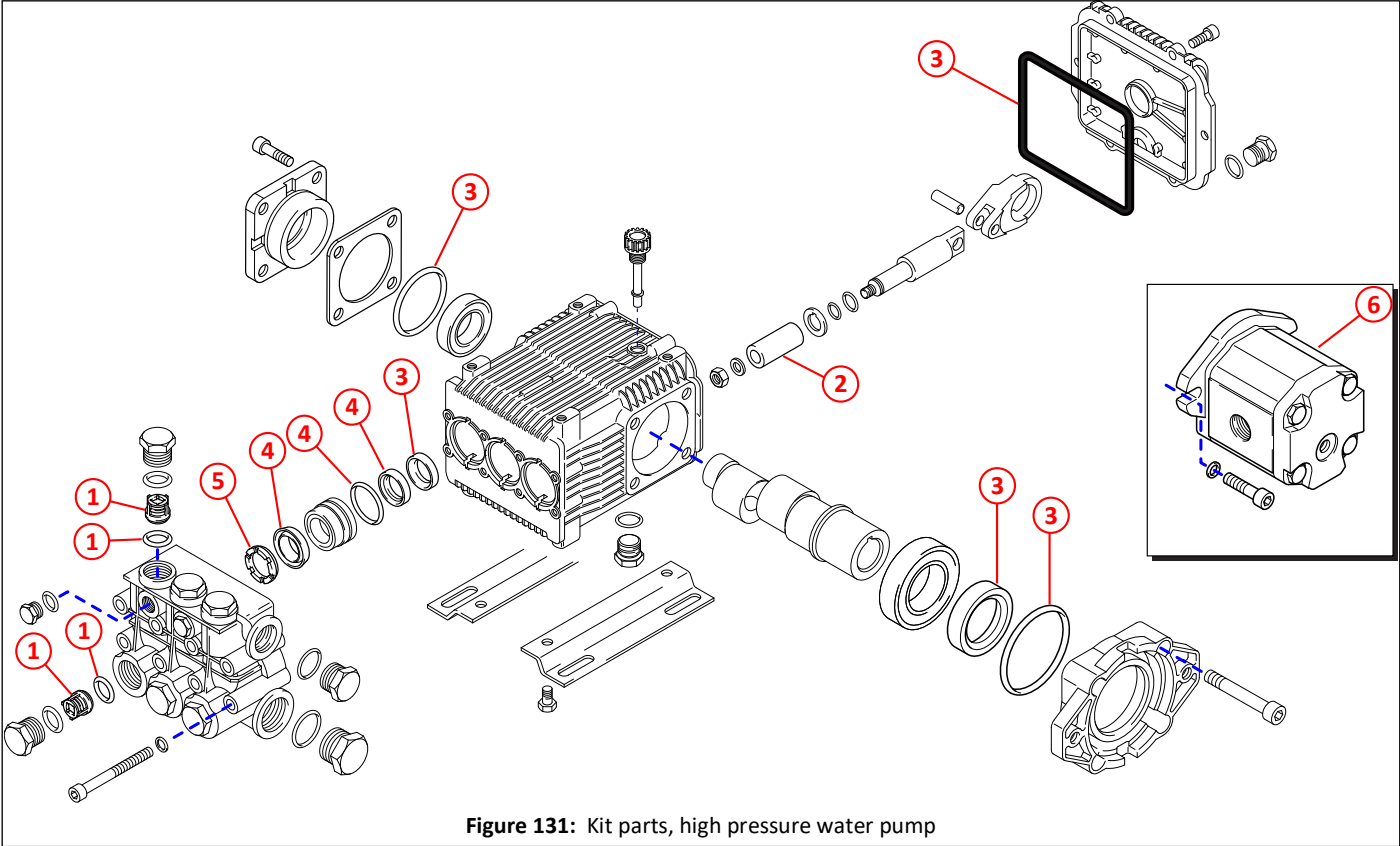


Figure 131: Kit parts, high pressure water pump

Item	Part No	Qty	Description	
①	045813	1	Kit 2864, poppet valves	
②	045814	1	Kit 2759, pistons	
③	045815	1	Kit 1856, oil seals	
④	045816	1	Kit 1888, water seals	
⑤	045817	1	Kit 1816, support rings	
⑥	045812	1	Motor, 4769	

Front spray bar mountings, high pressure water system

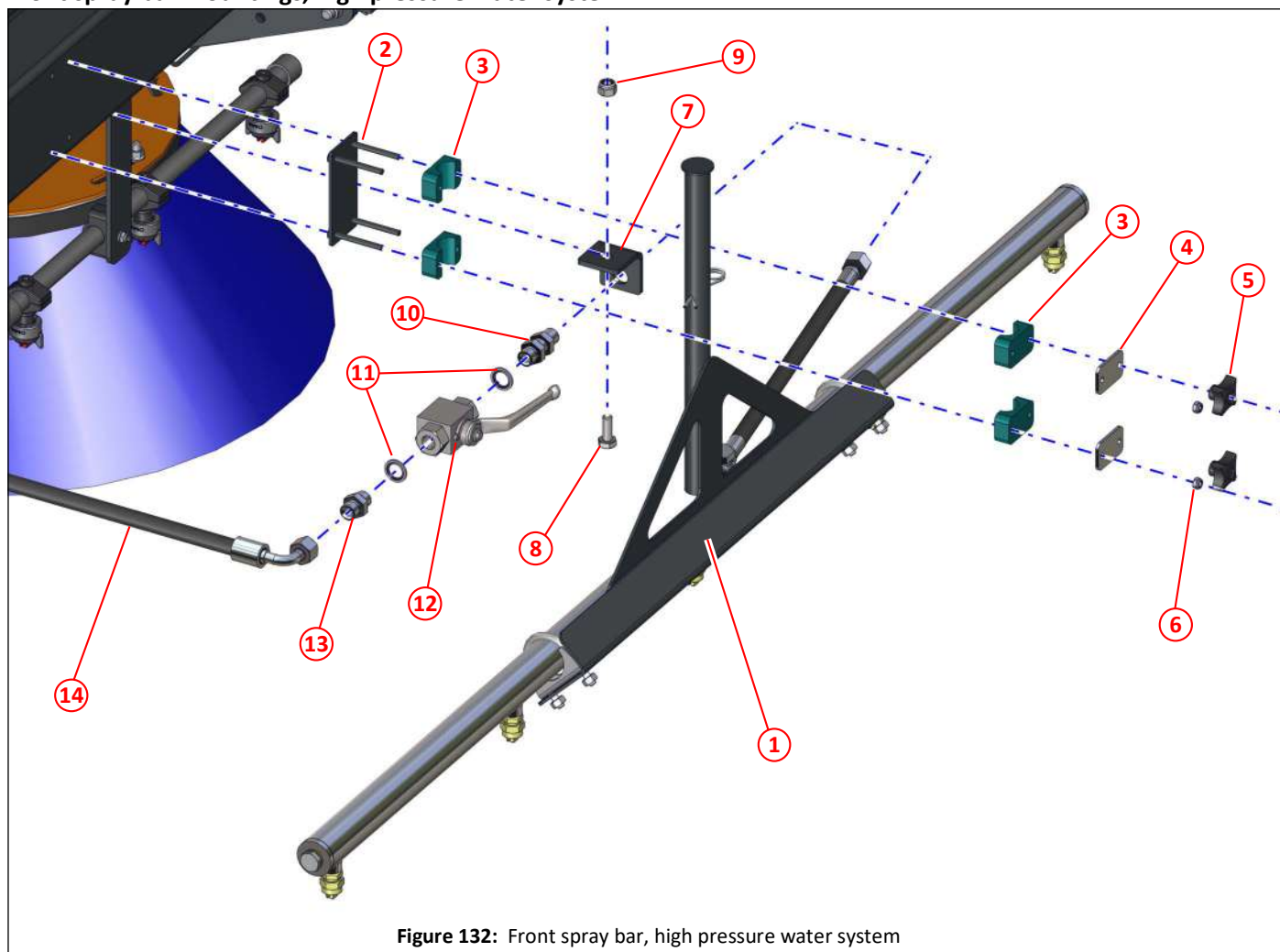


Figure 132: Front spray bar, high pressure water system

Item	Part No	Qty	Description	
①	042099	1	Front high pressure spray bar assembly	164
②	028007	1	Clamp plate, front spray bar	
③	027982	4	Pipe clamp block single 25mm	
④	027990	2	Pipe clamp top plate 2 hole large	
⑤	000299	2	Plastic hand knob M6	
⑥	011071	2	M6 Nyloc nut	
⑦	012548	1	Bracket	
⑧	011031	1	Set screw M10 x 25	
⑨	011075	1	M10 Nyloc nut	
⑩	002008	1	Adapter bulkhead $\frac{3}{8}$ " BSP	
⑪	011153	2	Dowty seal $\frac{3}{8}$ " BSP	
⑫	043201	1	Ball valve $\frac{3}{8}$ " BSP, high pressure	
⑬	011159	2	Adapter $\frac{3}{8}$ " BSP	
⑭	001326	1	Hose $\frac{3}{8}$ " BSP x 3650 straight and 90° ends (from high pressure pump)	

Front spray bar, high pressure water system

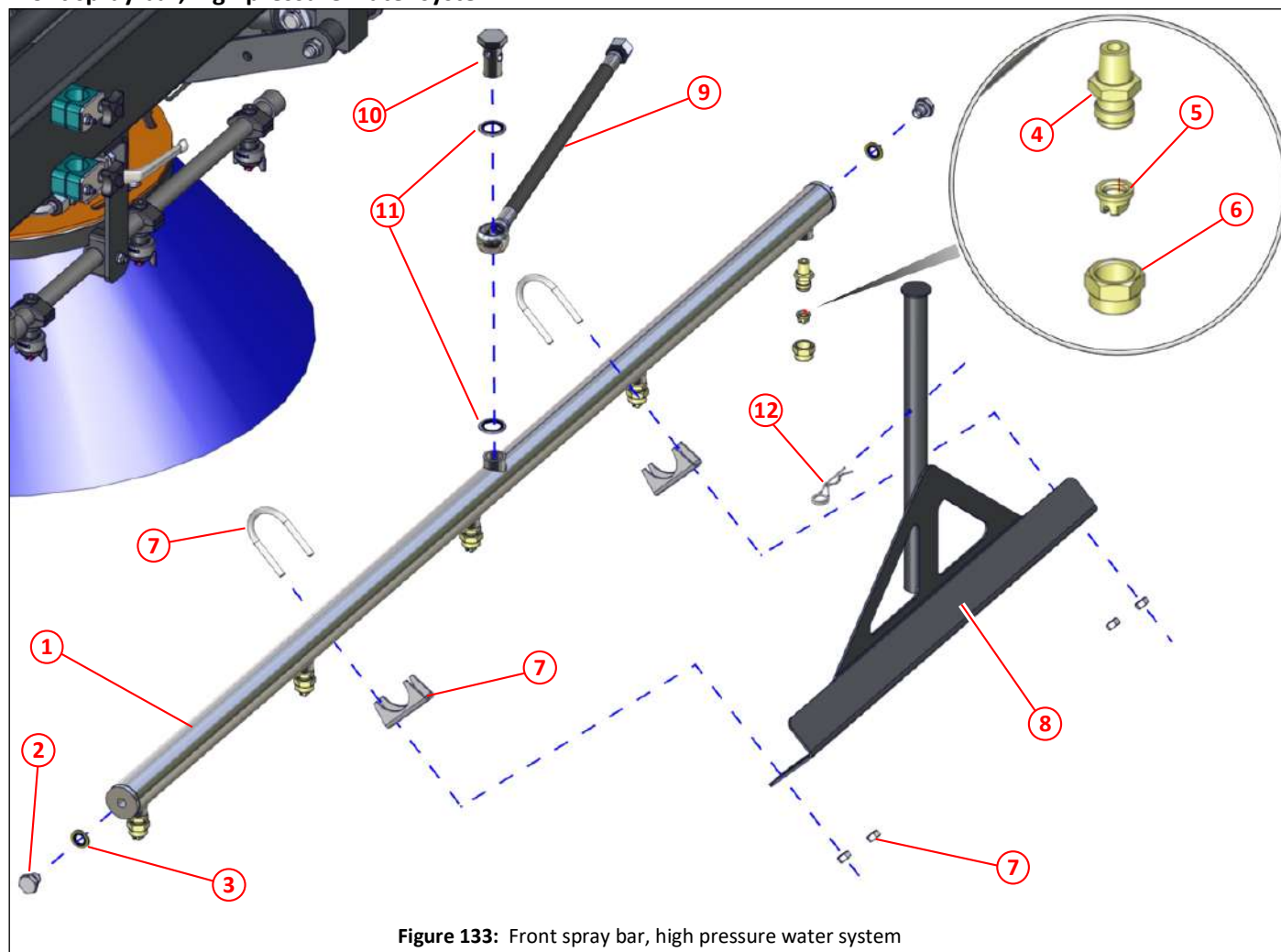


Figure 133: Front spray bar, high pressure water system

Item	Part No	Qty	Description	
①	034073	1	Spray bar, high pressure	
②	011241	2	Plug $\frac{1}{4}$ " BSP	
③	011152	2	Dowty seal $\frac{1}{4}$ " BSP	
④	010112	5	Nozzle body	
⑤	012316	5	Spray jet	
⑥	030951	5	Nozzle cap	
⑦	014983	2	Exhaust 'U' clamp $1\frac{5}{8}$ "	
⑧	043244	1	Spray bar mount	
⑨	001324	1	Hose $\frac{3}{8}$ " BSP x 420, straight and $\frac{1}{2}$ " BSP banjo ends	
⑩	002619	1	Banjo bolt $\frac{1}{2}$ " BSP	
⑪	011154	2	Dowty seal $\frac{1}{2}$ " BSP	
⑫	021944	1	R-clip, double wound	
	042099	1	Front high pressure spray bar assembly, items ①-⑪	

Hose reel, high pressure water system

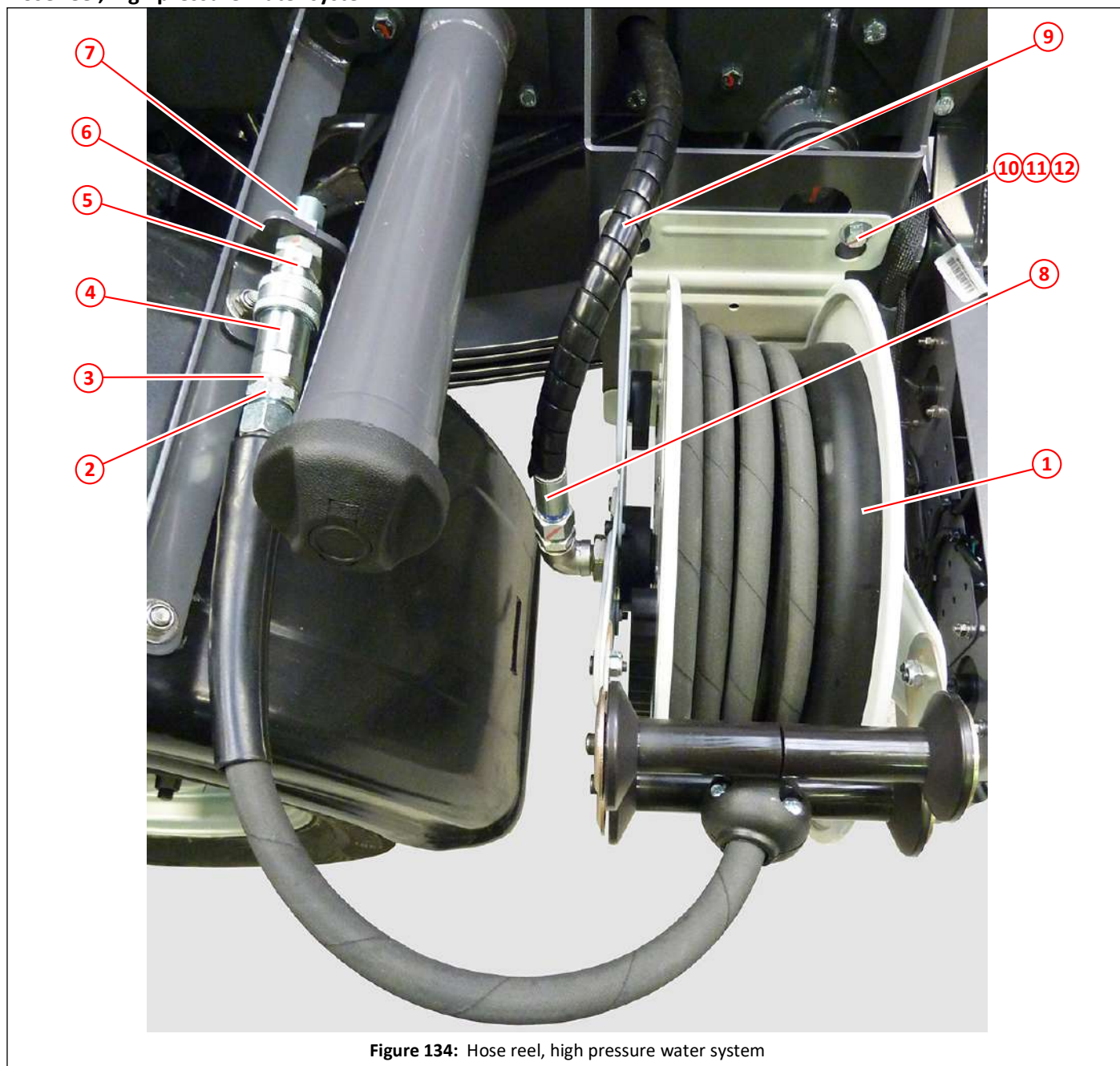
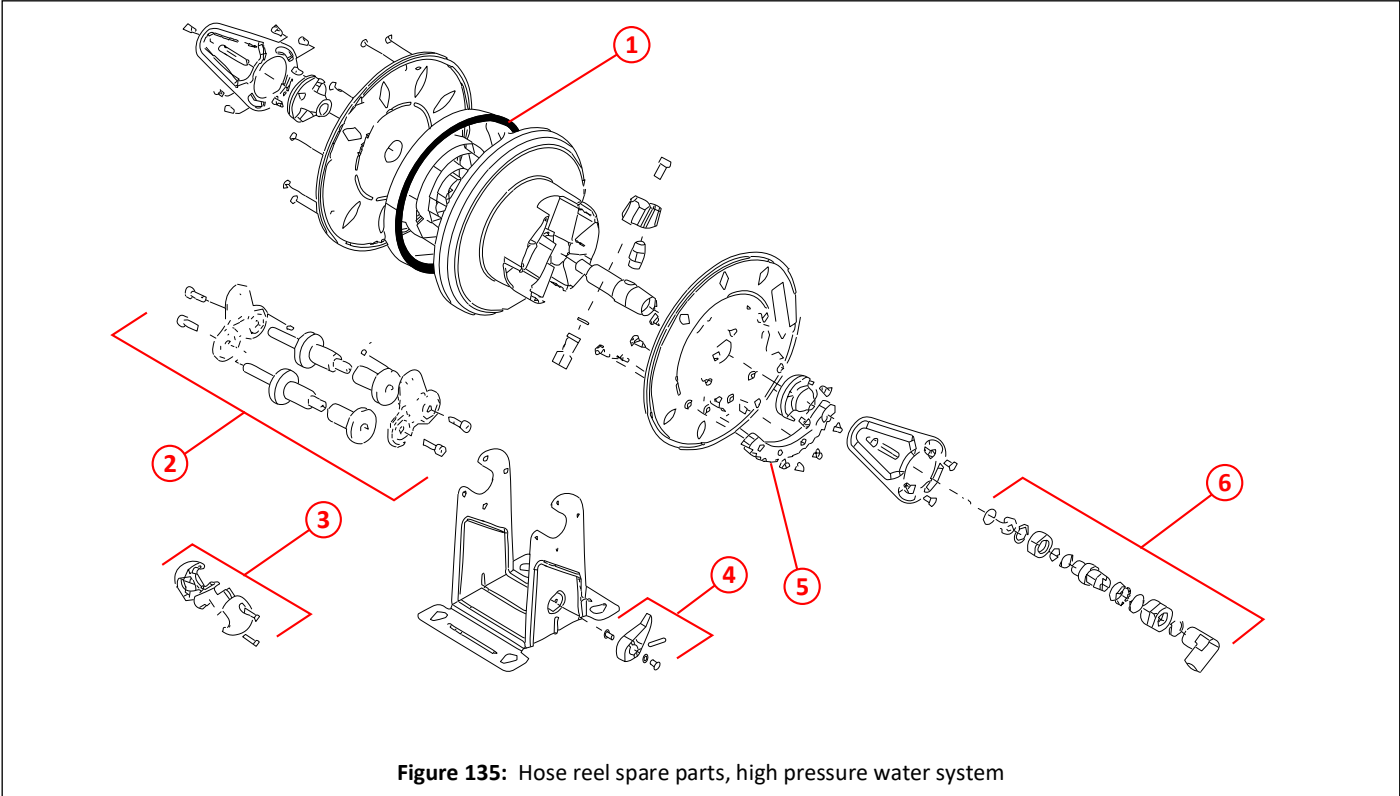


Figure 134: Hose reel, high pressure water system

Item	Part No	Qty	Description	
①	039433	1	Hose reel, complete with hose	
②	011159	1	Adapter $\frac{3}{8}$ " BSP	
③	011153	1	Dowty seal $\frac{3}{8}$ " BSP	
④	023360	1	Quick release coupling female $\frac{3}{8}$ " BSP	
⑤	023359	1	Quick release coupling male $\frac{3}{8}$ " BSP	
⑥	043200	1	Hose stowage bracket	
⑦	002008	1	Adapter bulkhead $\frac{3}{8}$ " BSP	
⑧	001088	1	Hose $\frac{3}{8}$ " BSP x 580 straight and 90° ends (from pump)	
⑨	012674	As req	Protective helix black	
⑩	011010	4	Set screw M8 x 20	
⑪	011092	4	Plain washer M8	
⑫	011073	4	M8 Nyloc nut	

Hose reel spare parts, high pressure water system



Item	Part No	Qty	Description	
①	046869	1	Return spring, hose reel	
②	046870	1	Hose roller guide	
③	046871	1	Hose return stop	
④	046872	1	Hose return ratchet pawl	
⑤	046873	1	Ratchet, hose reel	
⑥	046874	1	Water feed elbow	

Figure 136: Hand lance, high pressure water system

Figure 136: Hand lance, high pressure water system

Item	Part No	Qty	Description
①	042512	1	Hand lance M25H
②	011153	3	Dowty seal $\frac{3}{8}$ " BSP
③	011159	1	Adapter $\frac{3}{8}$ " BSP
④	023359	1	Quick release coupling male $\frac{3}{8}$ " BSP
⑤	020758	1	Nozzle
⑥	013574	1	Nozzle spray adjuster for detergent

Detergent kit, high pressure water system

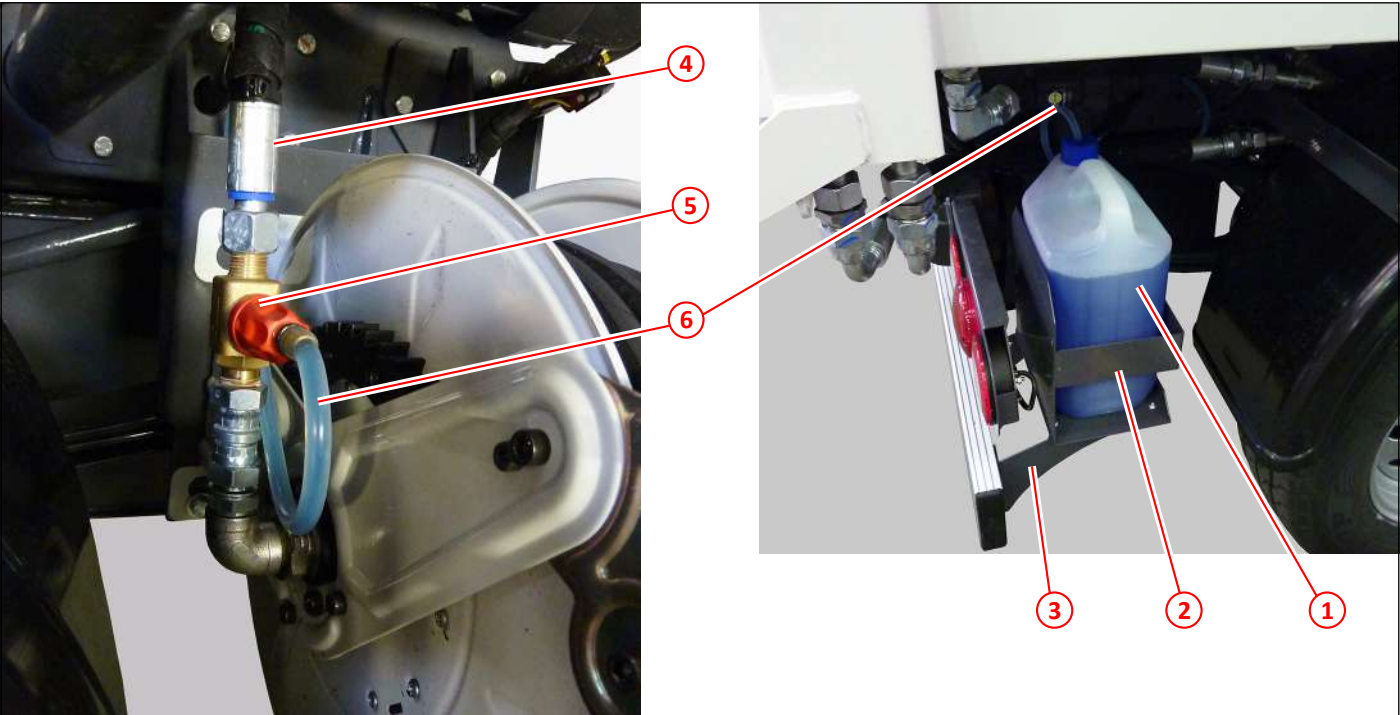


Figure 137: Detergent kit, high pressure water system

Item	Part No	Qty	Description	
①			Detergent bottle	169
②			Detergent bottle carrier	169
③			Bracket	169
④			Hose $\frac{3}{8}$ " BSP x 580 straight and 90° ends (from pump)	160,169
⑤			Detergent nozzle injector	169
⑥			Detergent silicon tube	169

Detergent kit, high pressure water system

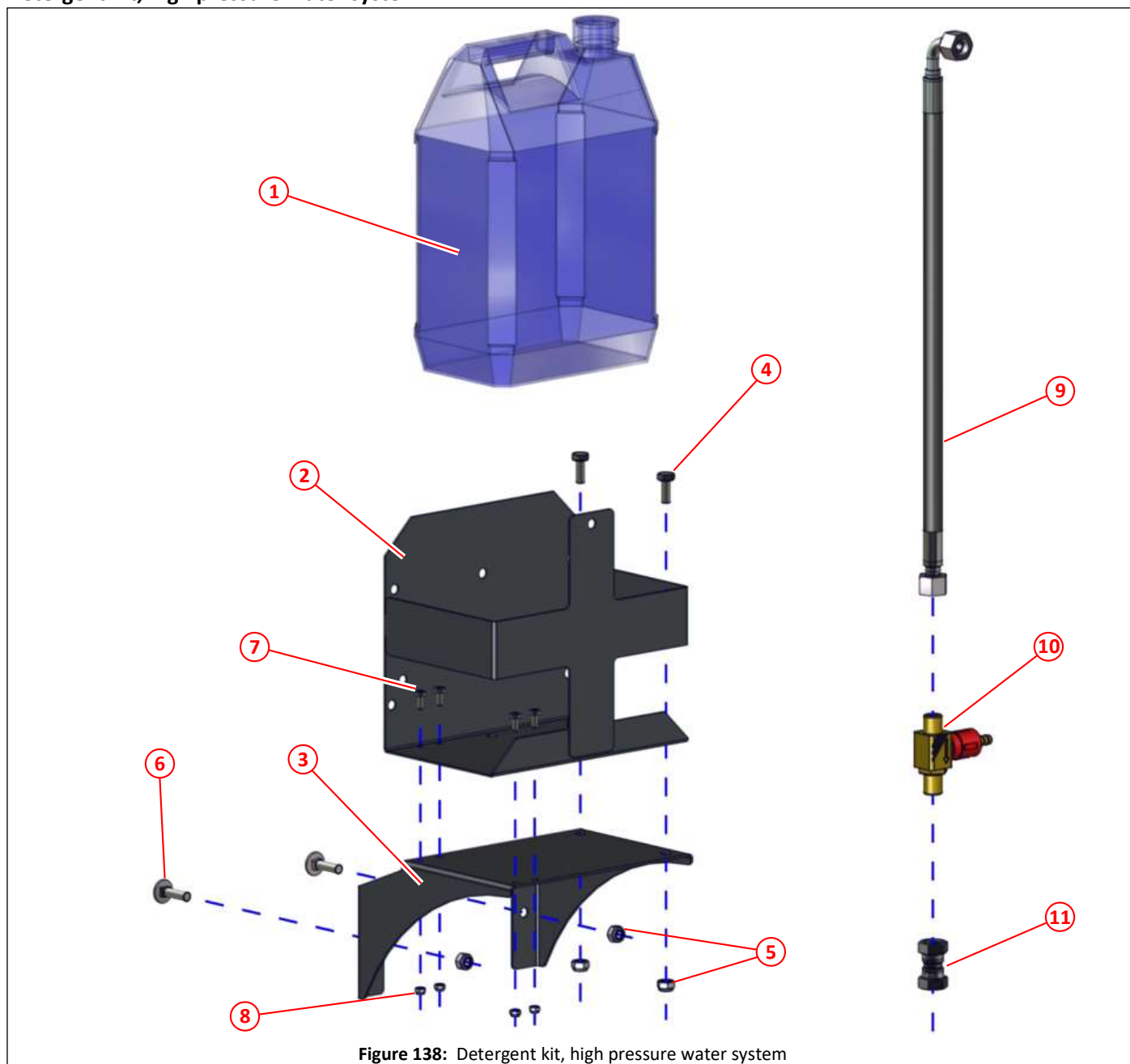


Figure 138: Detergent kit, high pressure water system

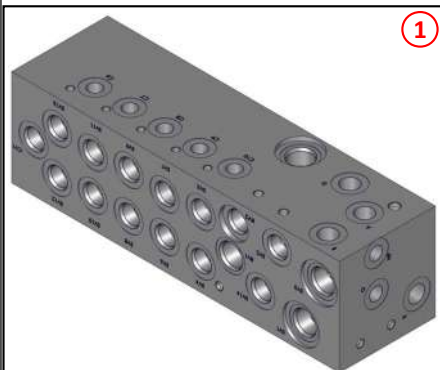
Item	Part No	Qty	Description	
①	013553	1	Detergent bottle	168
②	010393	1	Detergent bottle carrier	168
③	044357	1	Bracket	168
④	011010	2	Set screw M8 x 20	
⑤	011073	4	M8 Nyloc nut	
⑥	011414	2	Coach bolt M8 x 30	
⑦	100103	4	Screw M5 x 12 pan head pozidriv	
⑧	000155	4	M5 Nyloc nut	
⑨	001088	1	Hose $\frac{3}{8}$ " BSP x 580 straight and 90° ends (from pump)	160,165,168
⑩	013573	1	Detergent nozzle injector	168
⑪	011214	1	Adapter $\frac{3}{8}$ " BSP nut nut	
NI	013575	1.2m	Detergent silicone tube	168

Hydraulics

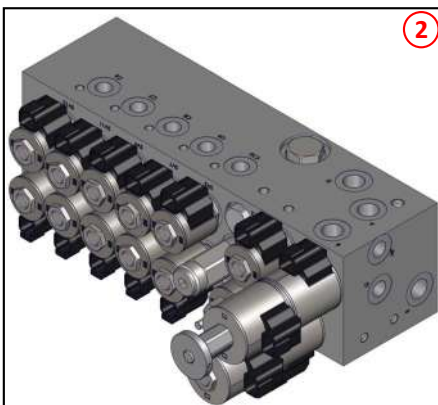
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Valve block, fittings	176
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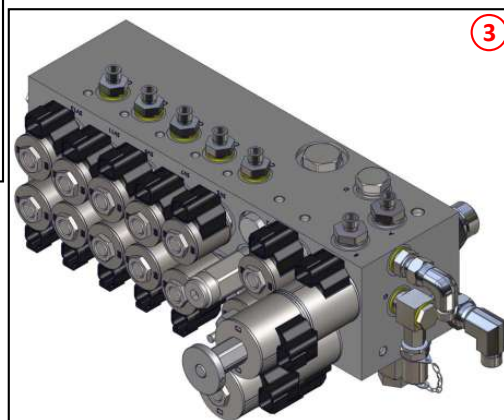
Valve block, main control



Unpopulated valve block



Populated valve block



Valve block assembly complete

Figure 139: Valve block, main control

Item	Part No	Qty	Description	
①	044220	1	Valve block, unpopulated	
②	042950	1	Valve block, populated	
③	043163	1	Valve block assembly complete	

Valve block, solenoid valves and coils

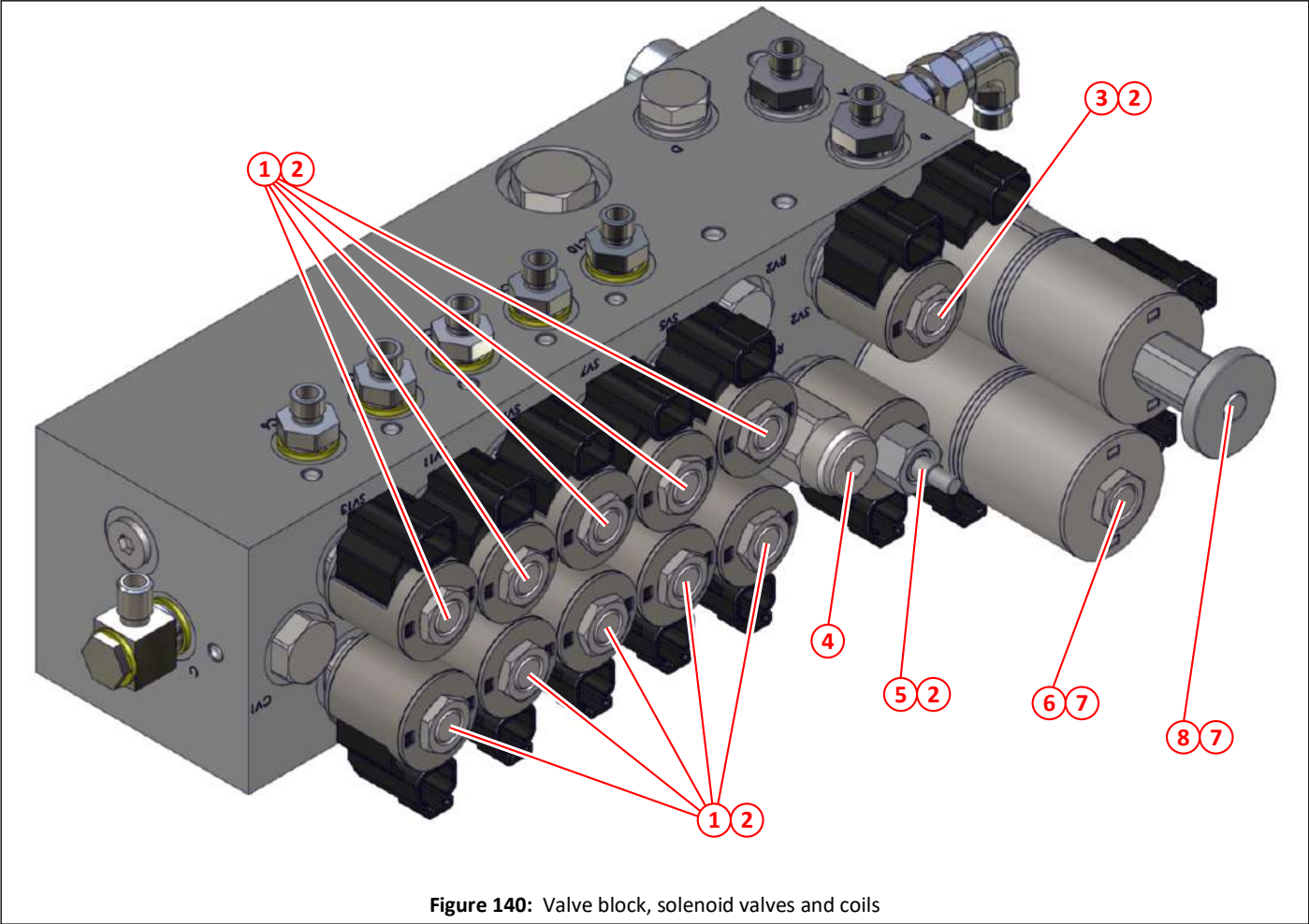


Figure 140: Valve block, solenoid valves and coils

Item	Part No	Qty	Description	
①	041218	10	Solenoid valve, cartridge SV08 - 30	
②	041225	12	Coil 12V / 17.2 watts	
③	041216	1	Solenoid valve, cartridge SV08 - 24	
④	041220	1	Relief valve RV10 - 20H 170 bar	
⑤	044219	1	Solenoid valve, cartridge SV08-21K	
⑥	041215	1	Solenoid valve, cartridge SV10 - 47C	
⑦	041224	4	Coil 12V/20.5 watts	
⑧	044218	1	Solenoid valve, cartridge SV10-47DK	

Valve block, fittings

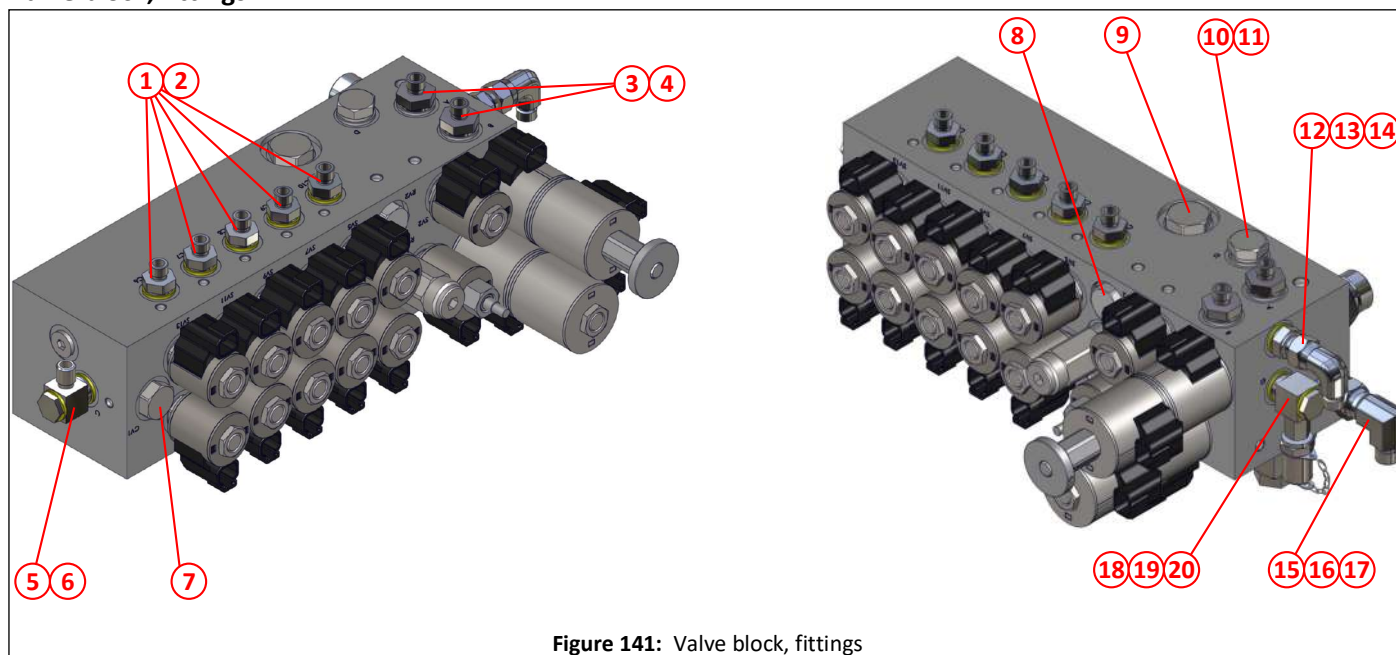


Figure 141: Valve block, fittings

Item	Part No	Qty	Description	
①	020902	5	Adapter 6mm x $\frac{1}{4}$ " BSP	
②	011152	5	Dowty seal $\frac{1}{4}$ " BSP	
③	025160	2	Adapter 6mm x $\frac{3}{8}$ " BSP	
④	011153	2	Dowty seal $\frac{3}{8}$ " BSP	
⑤	002190	1	Banjo $\frac{1}{4}$ " x 6	
⑥	011152	2	Dowty seal $\frac{1}{4}$ " BSP	
⑦	041226	1	Check valve CV08	
⑧	041228	1	Cavity plug, 2 way blocked	
⑨	041222	1	Check valve PC10	
⑩	011242	1	Plug $\frac{3}{8}$ " BSP	
⑪	011153	1	Dowty seal $\frac{3}{8}$ " BSP	
⑫	011171	1	Swivel elbow M/F $\frac{1}{4}$ " BSP	
⑬	011158	1	Adapter $\frac{1}{4}$ " BSP	
⑭	011152	1	Dowty seal $\frac{1}{4}$ " BSP	
⑮	011172	1	Swivel elbow M/F $\frac{3}{8}$ " BSP	
⑯	011159	1	Adapter $\frac{3}{8}$ " BSP	
⑰	011153	1	Dowty seal $\frac{3}{8}$ " BSP	
⑱	002190	1	Banjo $\frac{1}{4}$ " x 6MM	
⑲	011152	2	Dowty seal $\frac{1}{4}$ " BSP	
⑳	002191	1	Test point 6mm	

i See also page 176 for further fittings and page 174 for solenoid valves and coils.

Valve block, fittings

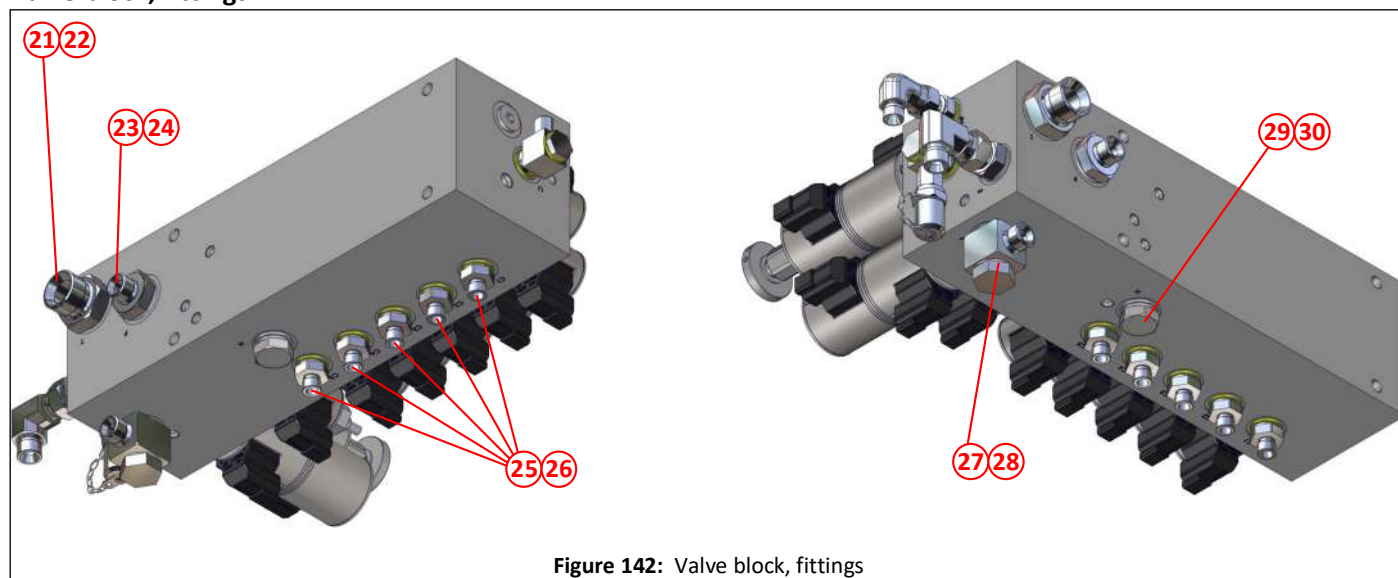


Figure 142: Valve block, fittings

Item	Part No	Qty	Description	
21	011166	1	Adapter $\frac{3}{4}$ " BSP x $\frac{1}{2}$ " BSP	
22	011154	1	Dowty seal $\frac{1}{2}$ " BSP	
23	011167	1	Adapter $\frac{1}{2}$ " BSP x $\frac{3}{8}$ " BSP	
24	011154	1	Dowty seal $\frac{1}{2}$ " BSP	
25	020902	5	Adapter 6mm x $\frac{1}{4}$ " BSP	
26	011152	5	Dowty seal $\frac{1}{4}$ " BSP	
27	002077	1	Adapter $\frac{3}{8}$ " BSP, AB01-06	
28	011153	2	Dowty seal $\frac{3}{8}$ " BSP	
29	011242	1	Plug $\frac{3}{8}$ " BSP	
30	011153	1	Dowty seal $\frac{3}{8}$ " BSP	

i See also page 175 for further fittings and page 174 for solenoid valves and coils.

Valve block, brush control

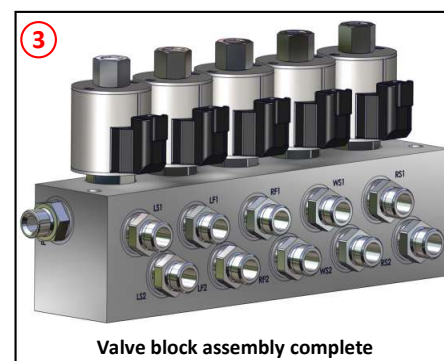
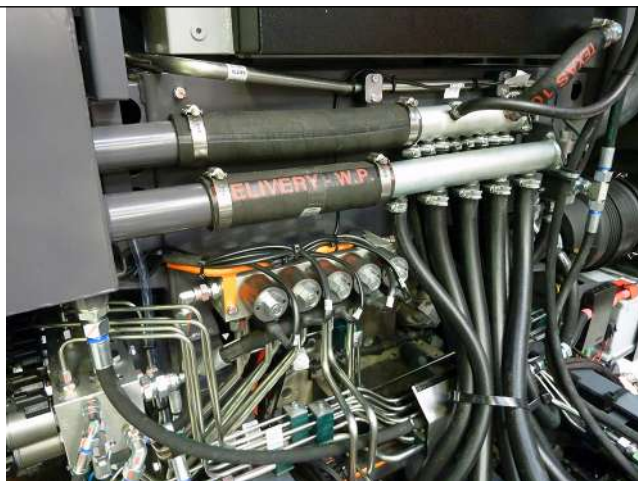


Figure 143: Valve block, brush control

Item	Part No	Qty	Description	
①	044236	1	Valve block, unpopulated	
②	042519	1	Valve block, populated	
③	043164	1	Valve block assembly complete	

i See page 178 for solenoid valves, coils and fittings.

Valve block, brush control, solenoid valves, coils and fittings

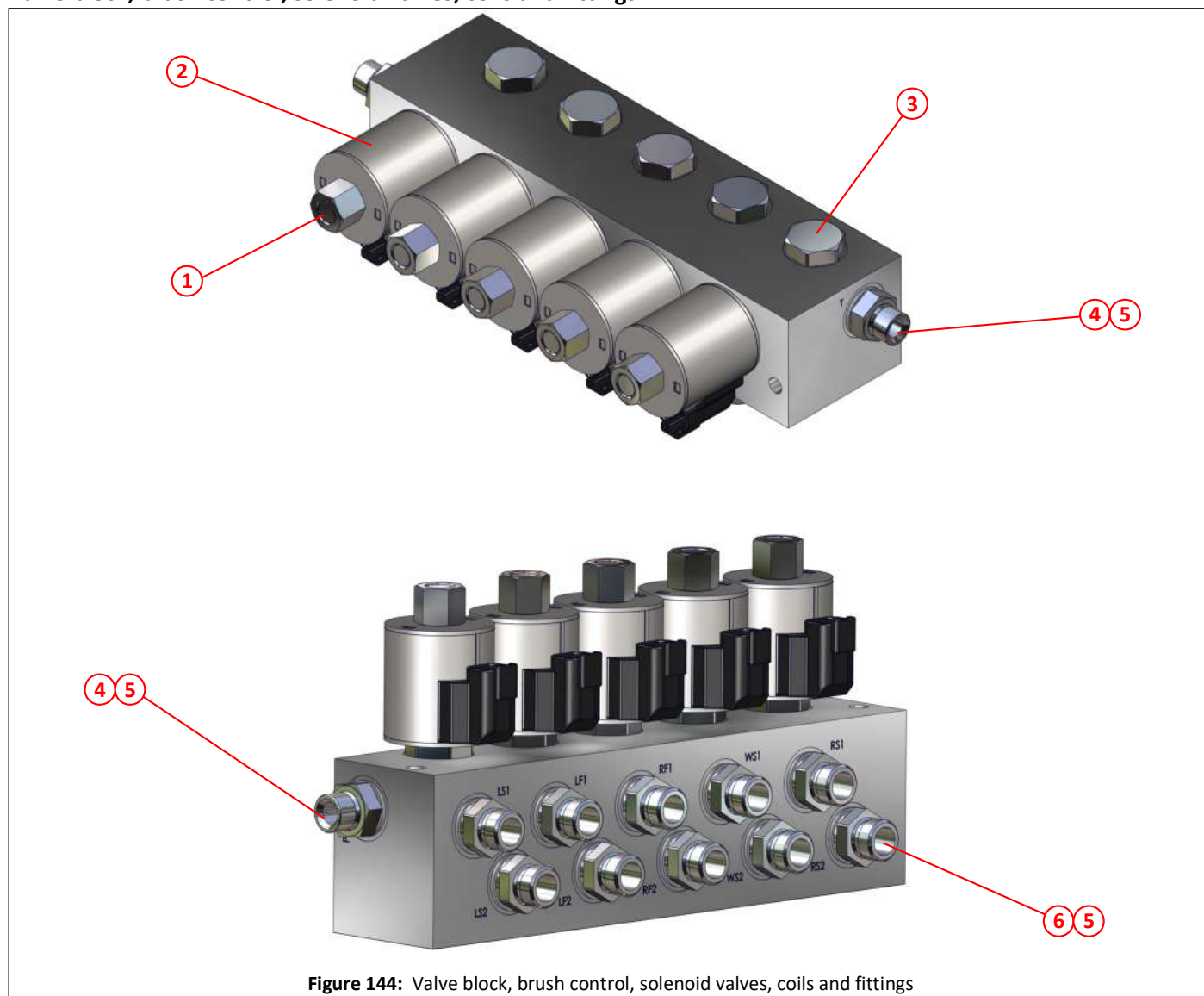


Figure 144: Valve block, brush control, solenoid valves, coils and fittings

Item	Part No	Qty	Description	
①	044239	5	Solenoid valve, cartridge - SV10-23-0-N-00	
②	041224	5	Coil 12V/20.5 watts	
③	044055	5	Check valve CV10-20-0-N-100	
④	011159	2	Adapter $\frac{3}{8}$ " BSP	
⑤	011153	12	Dowty seal $\frac{3}{8}$ " BSP	
⑥	020903	10	Adapter 12mm x $\frac{3}{8}$ " BSP	

Transmission pump, fan pump and gear pump arrangement

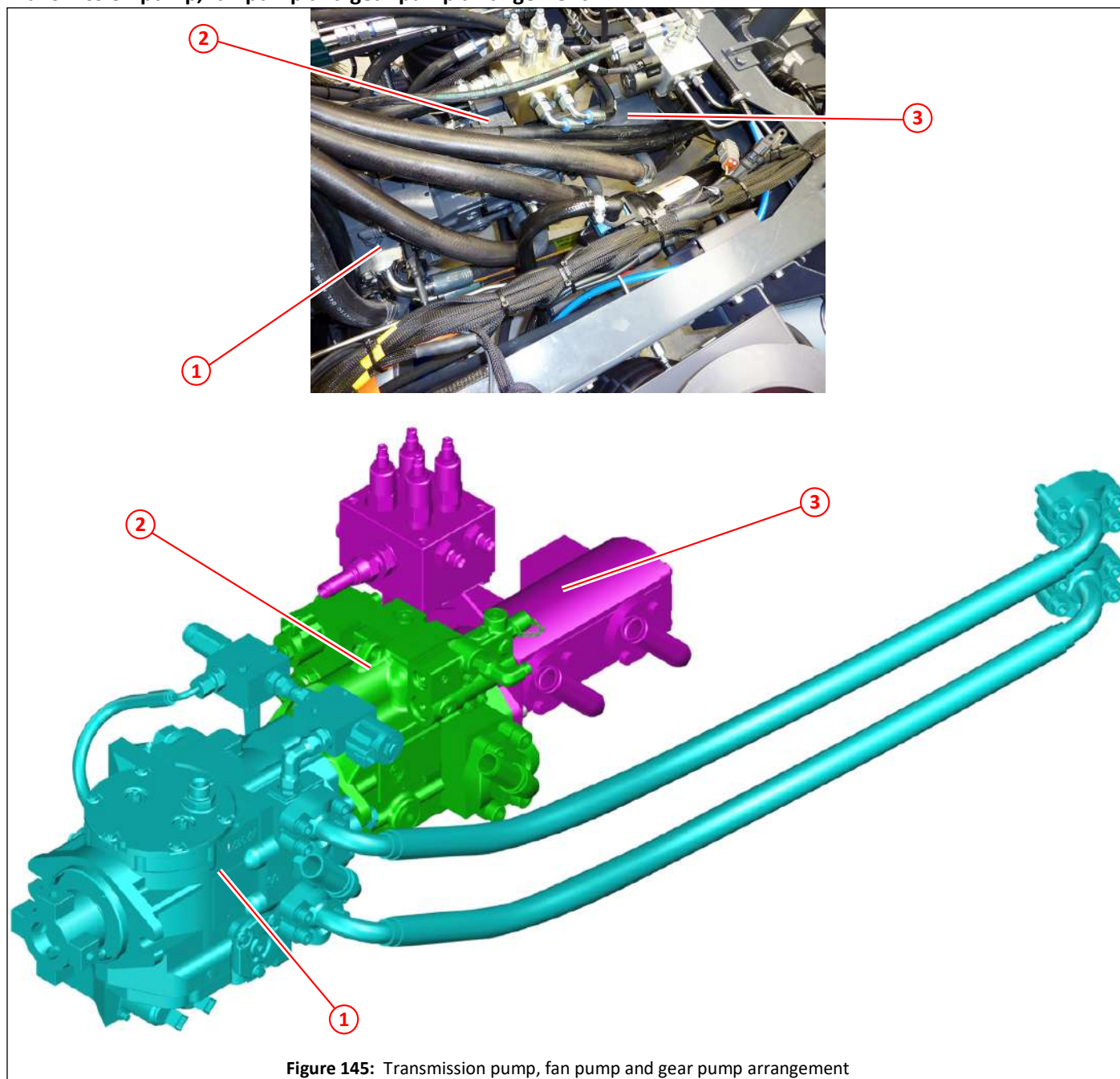


Figure 145: Transmission pump, fan pump and gear pump arrangement

Item	Part No	Qty	Description	
①			Transmission pump	180,181
②			Fan pump	183,184
③			Gear pumps	185,186

Transmission pump

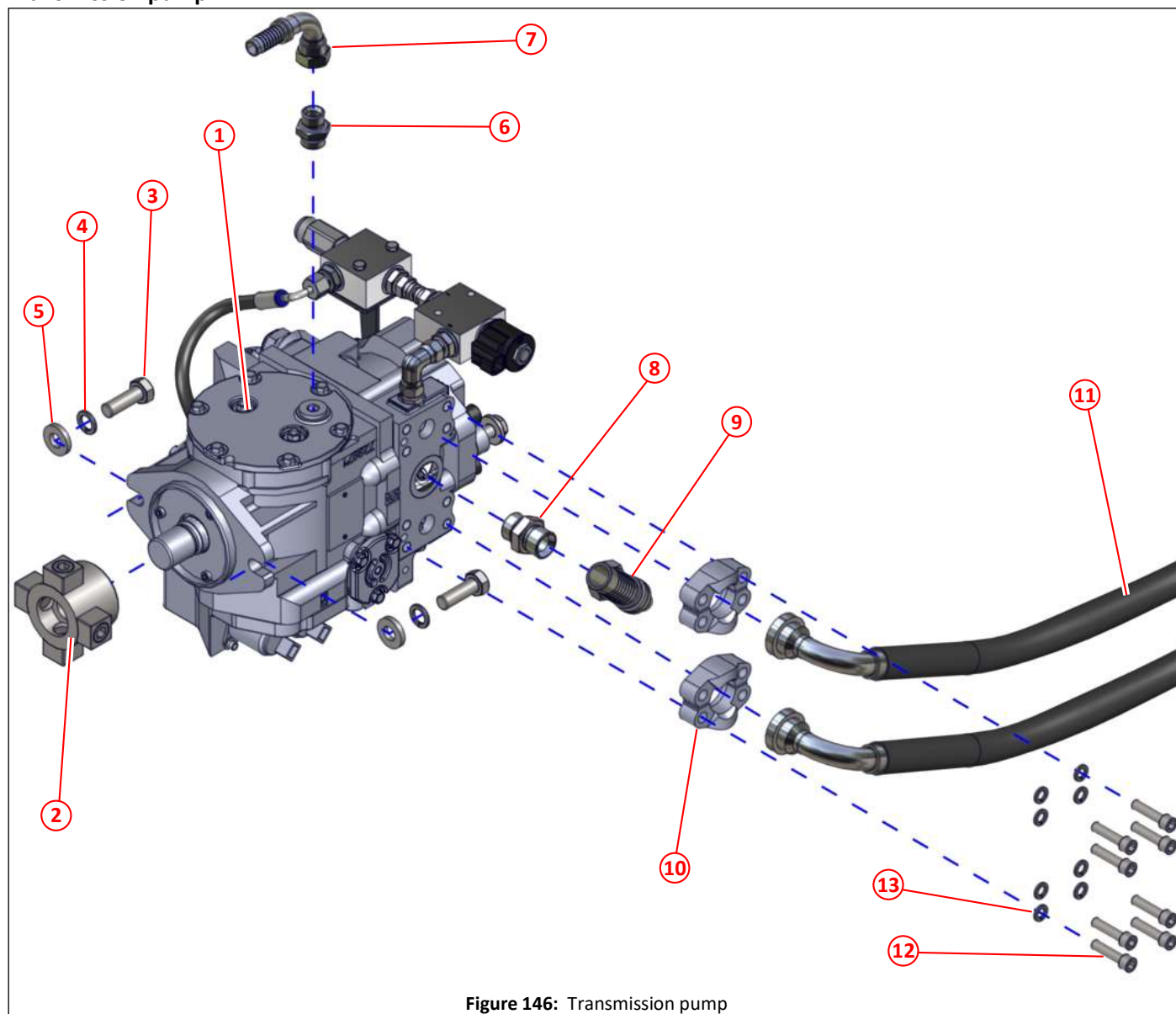


Figure 146: Transmission pump

Item	Part No	Qty	Description	
①	024516	1	Transmission pump	
②	032884	1	Coupling hub	
③	011126	2	Set screw M14 x 40	
④	011106	2	Spring washer M14	
⑤	020030	2	Washer $\varnothing 14.5 \times \varnothing 30 \times 5$	
⑥	011226	1	Adapter $\frac{7}{8}$ " SAE x $\frac{1}{2}$ " BSP complete with 'O' ring	
⑦	011234	1	Elbow hose tail $\frac{1}{2}$ " BSP x $\frac{5}{8}$ " HOSE	
⑧	011190	1	Adapter $1\frac{1}{16}$ " SAE x $\frac{3}{4}$ " BSP complete with 'O' ring	
⑨	002079	1	Elbow hose tail $1\frac{1}{4}$ " BSPF x $1\frac{1}{4}$ " hose	
⑩	002000	2	Flange $\frac{3}{4}$ " SAE split kit 6000 PSI	
⑪	042061	2	Transmission hose	
⑫	000045	8	Socket cap screw $\frac{3}{8}$ " UNC x $1\frac{1}{2}$ "	
⑬	011046	8	Spring washer $\frac{3}{8}$ " HP	

Transmission pump

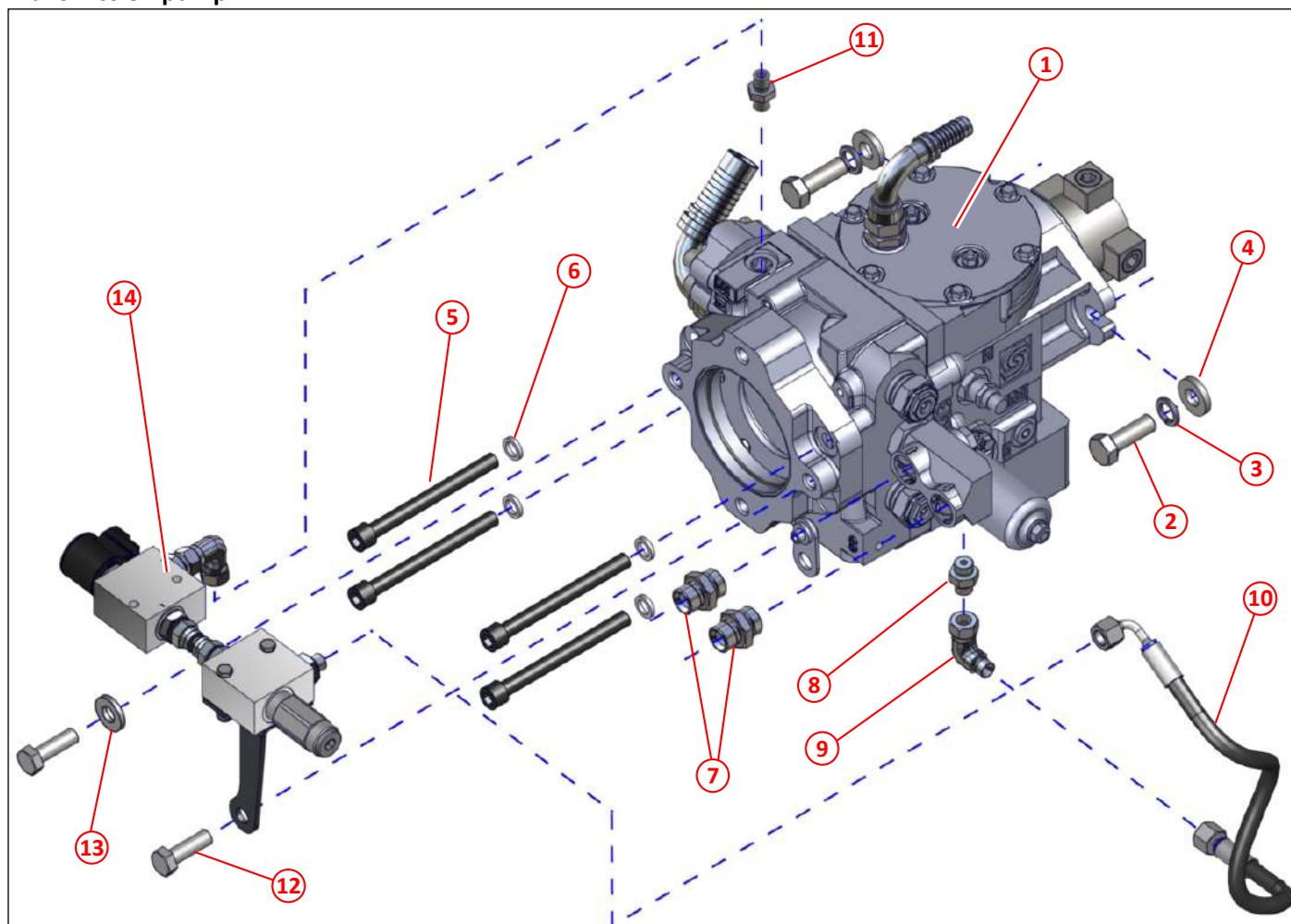


Figure 147: Transmission pump

Item	Part No	Qty	Description	
①	024516	1	Transmission pump	
②	011126	2	Set screw M14 x 40	
③	011106	2	Spring washer M14	
④	020030	2	Washer $\varnothing 14.5 \times \varnothing 30 \times 5$	
⑤	000335	4	Socket cap screw M12 x 120	
⑥	038166	4	Drive motor mounting spacer 18.1 x 12.2 x 3	
⑦	011226	2	Adapter $\frac{7}{8}$ " SAE x $\frac{1}{2}$ " BSP complete with 'O' ring	
⑧	011264	1	Adapter $\frac{9}{16}$ " SAE x $\frac{1}{4}$ " BSP complete with 'O' ring	
⑨	011171	1	Swivel elbow M/F $\frac{1}{4}$ " BSP	
⑩	001105	1	Hose $\frac{1}{4}$ " BSP x 400, straight and 90° ends	
⑪	025040	1	Restrictor 12, $\frac{9}{16}$ " x $\frac{1}{4}$ " BSP, $\frac{1}{32}$ " complete with 'O' ring	
⑫	000033	2	Bolt $\frac{1}{2}$ " UNC x 1 $\frac{1}{2}$ "	
⑬	039036	1	Spacer $\varnothing 28$ OD x $\varnothing 13.1$ ID x 4	
⑭			Reverse solenoid and relief valve unit	182

Reverse solenoid and relief valve unit

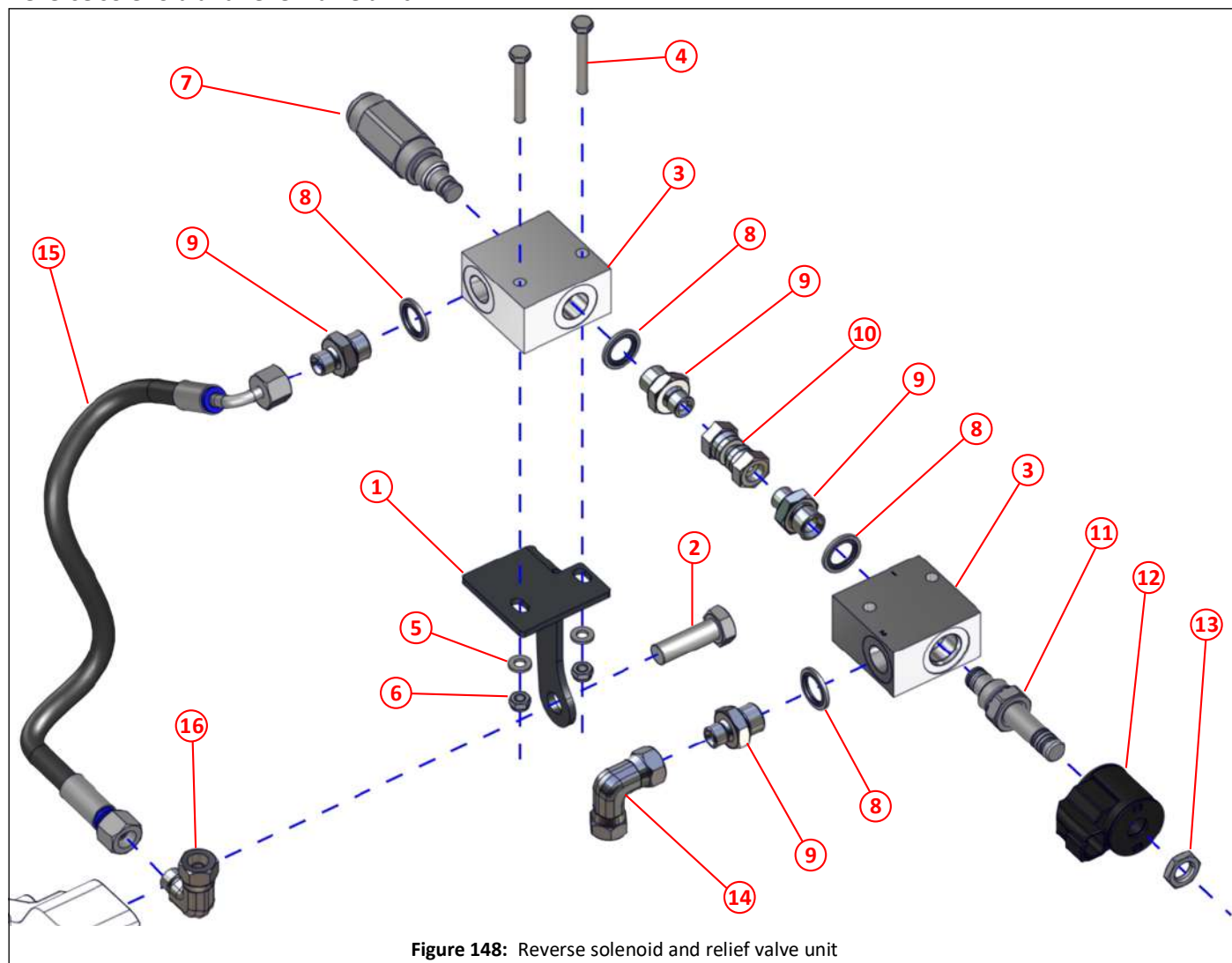


Figure 148: Reverse solenoid and relief valve unit

Item	Part No	Qty	Description	
①	043229	1	Relief valve bracket	
②	000033	1	Bolt $\frac{1}{2}$ " UNC x $1\frac{1}{2}$ "	
③	041640 *	2	Manifold	
④	000120	2	Set screw M6 x 45	
⑤	011090	2	Plain washer M6	
⑥	011071	2	M6 Nyloc nut	
⑦	041641 *	1	Relief valve RV58-20H-P-46-M80	
⑧	011153	4	Dowty seal $\frac{3}{8}$ " BSP	
⑨	011199	4	Adapter $\frac{3}{8}$ " x $\frac{1}{4}$ " BSP	
⑩	011219	1	Adapter $\frac{1}{4}$ " BSP Nut/Nut	
⑪	041643	1	Solenoid valve, cartridge SF08-21, includes nut ⑬.	
⑫	041225	1	Coil 12v / 17.2 watts	
⑬	041237	1	Nut	
⑭	011169	1	Swivel elbow F/F $\frac{1}{4}$ " BSP	
⑮	001105	1	Hose $\frac{1}{4}$ " BSP x 400, straight and 90° ends	
⑯	011171	1	Swivel elbow M/F $\frac{1}{4}$ " BSP	

*	041559	1	Relief valve and manifold, assembly, items ③ and ⑦
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Fan pump

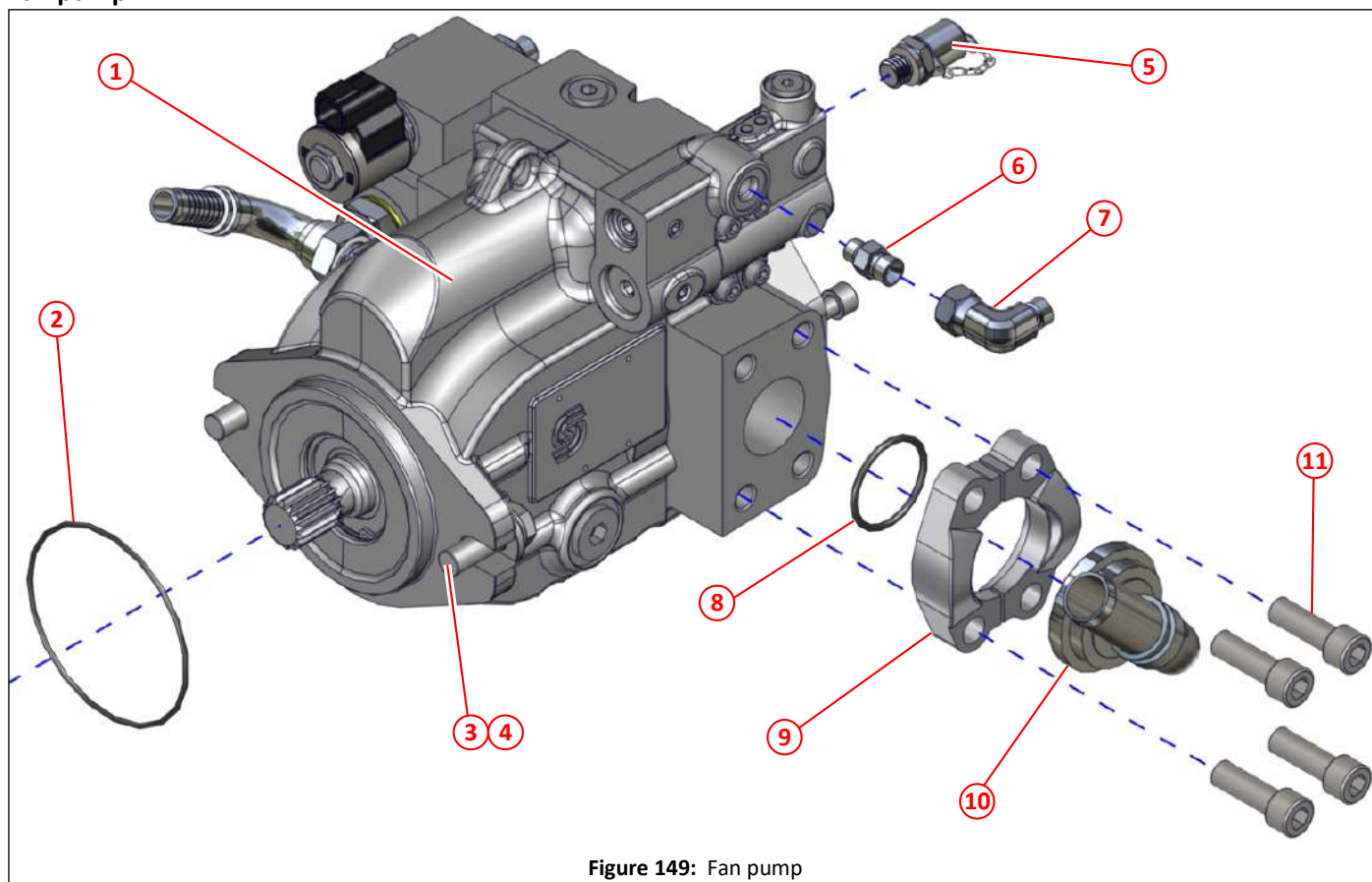


Figure 149: Fan pump

Item	Part No	Qty	Description	
①	040162	1	Fan pump	
②	036829	1	'O' ring $\varnothing 94.93 \times 2.62$	
③	000033	2	Bolt $\frac{1}{2}$ " UNC x $1\frac{1}{2}$ "	
④	011106	2	Spacer $\varnothing 28$ OD x $\varnothing 13.1$ ID x 4	
⑤	002192	1	Test point M12	
⑥	011227	1	Adapter $\frac{7}{16}$ " SAE x $\frac{1}{4}$ " BSP complete with 'O' ring	
⑦	011171	1	Swivel elbow M/F $\frac{1}{4}$ " BSP	
⑧	013516	1	'O' ring $\varnothing 47$ ID x 3.5 section	
⑨	011230	2	Flange $1\frac{1}{2}$ " SAE split	
⑩	011231	1	Elbow hose tail $1\frac{1}{2}$ " SAE x 1" hose	
⑪	011108	4	Socket cap screw $\frac{1}{2}$ " UNC x $1\frac{1}{2}$ "	

Fan pump

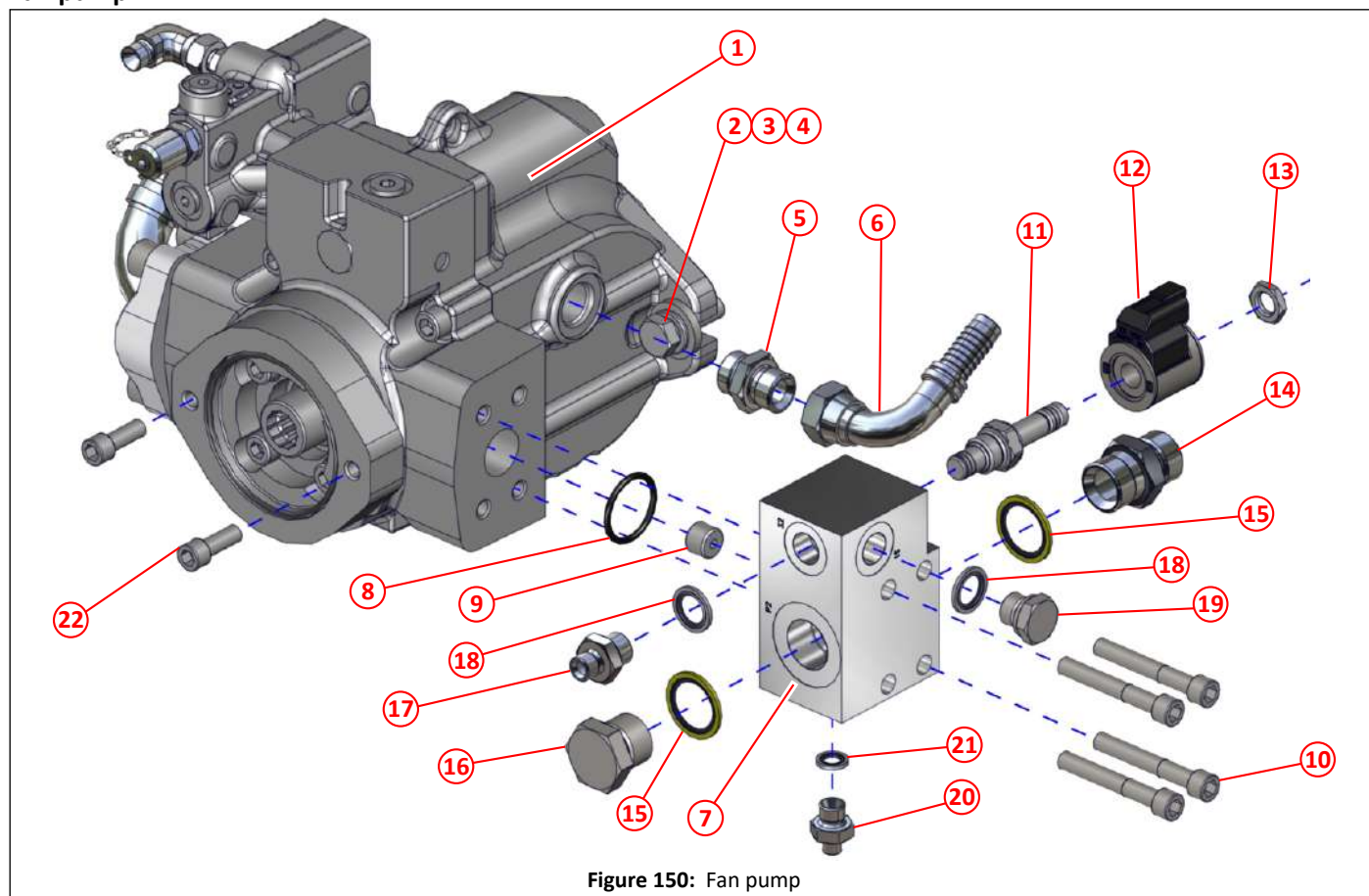


Figure 150: Fan pump

Item	Part No	Qty	Description	
①	040162	1	Fan pump	
②	011126	2	Set screw M14 x 40	
③	011106	2	Spring washer M14	
④	020030	2	Washer $\varnothing 14.5 \times \varnothing 14.5 \times 5$	
⑤	011226	1	Adapter $\frac{7}{8}$ " SAE x $\frac{1}{2}$ " BSP complete with 'O' ring	
⑥	011234	1	Elbow hose tail $\frac{1}{2}$ " BSP x $\frac{5}{8}$ " HOSE	
⑦	041628	1	Manifold	
⑧	041626	1	'O' ring	
⑨	042481	1	Orifice plug 5.50	
⑩	011107	4	Socket cap head screw $\frac{3}{8}$ " UNC X $2\frac{1}{2}$ "	
⑪	042482	1	Solenoid valve, Cartridge N/C	
⑫	041225	1	Coil 12v / 17.2 watts	
⑬	041237	1	Nut	
⑭	011161	1	Adapter $\frac{3}{4}$ " BSP	
⑮	011155	2	Dowty seal $\frac{3}{4}$ " BSP	
⑯	011244	1	Plug $\frac{3}{4}$ " BSP	
⑰	011199	1	Adapter $\frac{3}{8}$ " x $\frac{1}{4}$ " BSP	
⑱	011153	2	Dowty seal $\frac{3}{8}$ " BSP	
⑲	011242	1	Plug $\frac{3}{8}$ " BSP	
⑳	011163	1	Adapter $\frac{1}{4}$ " BSP X $\frac{1}{8}$ " BSP	
㉑	011151	1	Dowty seal $\frac{1}{8}$ " BSP	
㉒	000426	2	Socket cap head screw $\frac{3}{8}$ " UNC X 1"	
NI	041562	1	Valve block fan control, contains items ⑦, ⑧, ⑨, ⑪, ⑫ and ⑬	

Gear pump, double

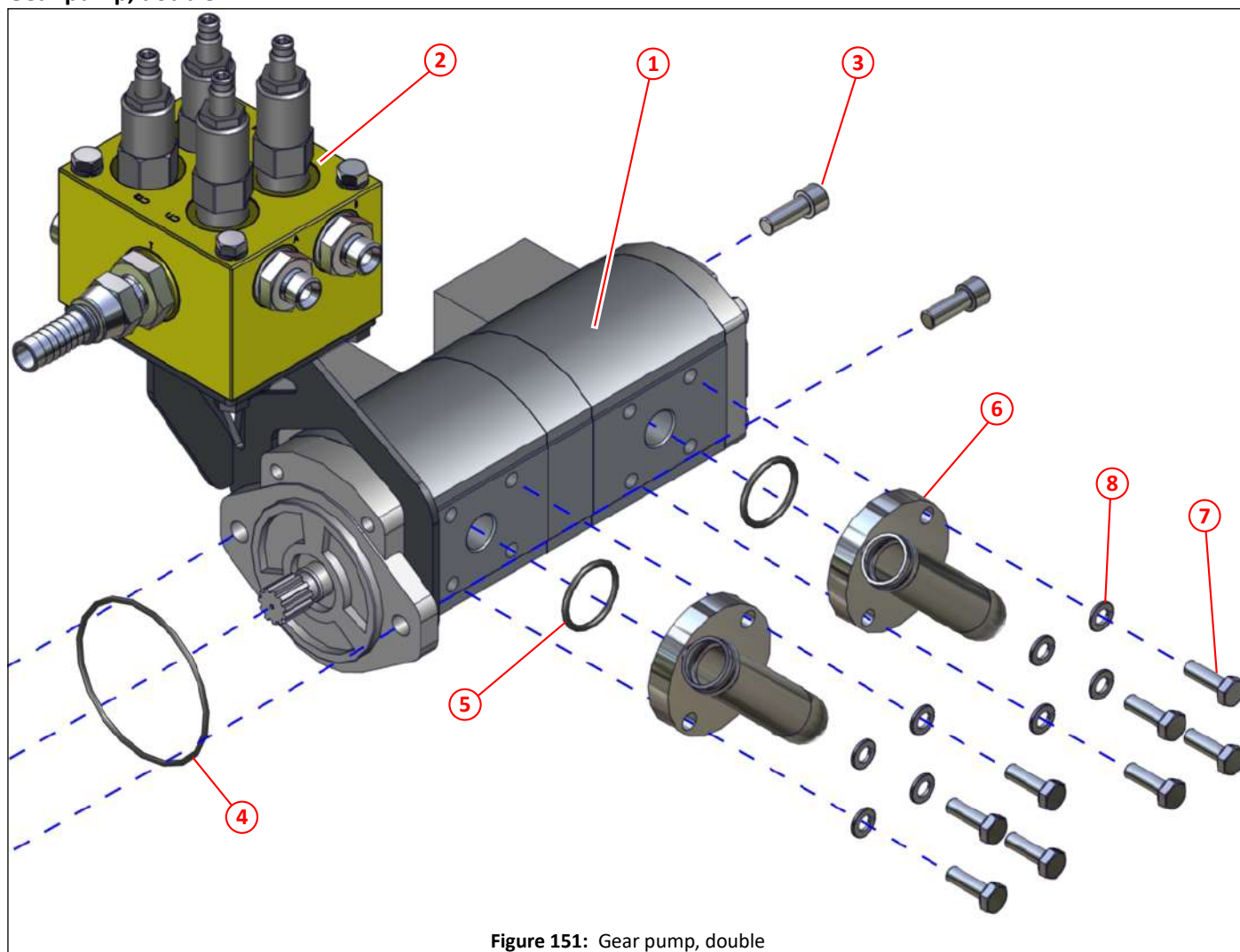
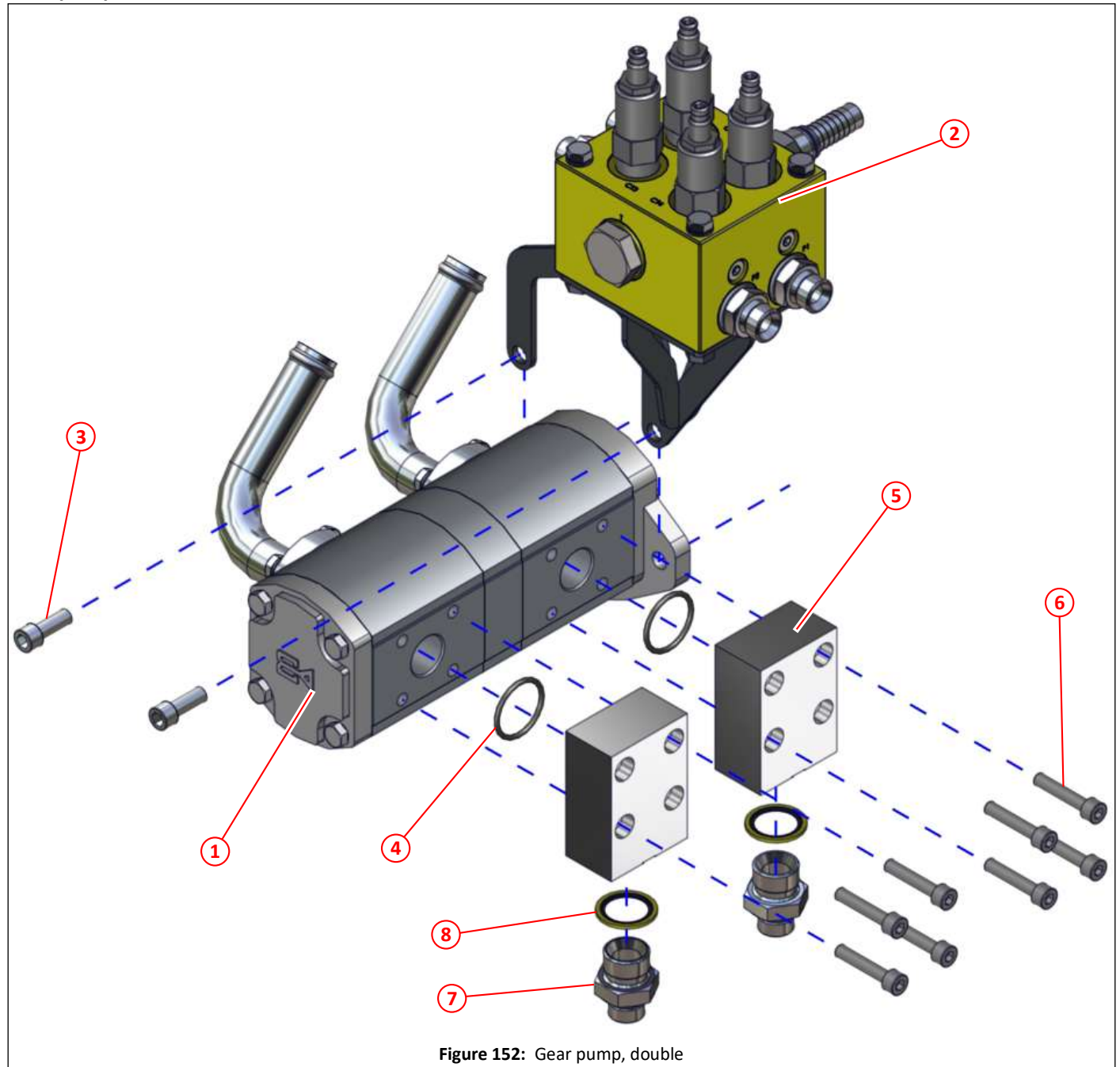


Figure 151: Gear pump, double

Item	Part No	Qty	Description	
①	031970	1	Pump 23cc, double	
②	038513	1	Flow control valve assembly	187
③	000426	2	Socket cap head screw $\frac{3}{8}$ " UNC X 1"	
④	022294	1	'O' ring (gear pump)	
⑤	013518	2	'O' ring $\varnothing 31$ ID x 3.5	
⑥	043724	2	Suction elbow	
⑦	011011	8	Set screw M8 x 25	
⑧	011093	8	Spring washer M8	

Gear pump, double



Item	Part No	Qty	Description	
①	031970	1	Pump 23cc, double	
②	038513	1	Flow control valve assembly	187
③	000426	2	Socket cap head screw $\frac{3}{8}$ " UNC X 1"	
④	013517	2	'O' ring 1" SAE BS 219 nitrile	
⑤	026335	2	Adapter block gear pump	
⑥	000096	8	Socket head cap screw M8 x 40	
⑦	011166	2	Adapter $\frac{3}{4}$ " BSP x $\frac{1}{2}$ " BSP	
⑧	011155	2	Dowty seal $\frac{3}{4}$ " BSP	

Flow control valves

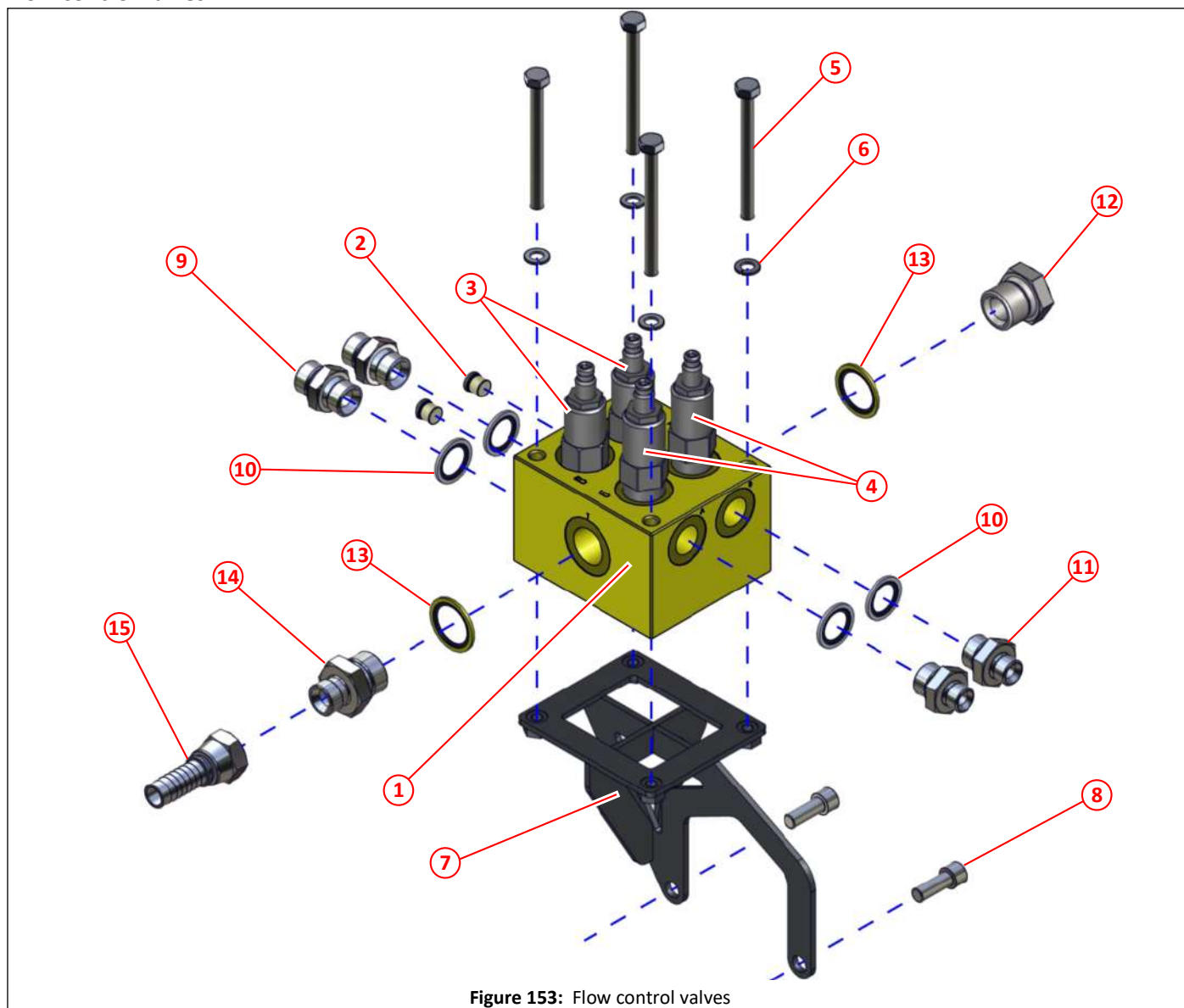


Figure 153: Flow control valves

Item	Part No	Qty	Description	
①	038513	1	Flow control, dual, valve block, includes items ①, ②, ③ and ④	
②	039061	2	1/4" SAE hollow hex plug	
③	039063	2	Relief valve (RV1-10-S-36/30.5)	
④	040288	2	Flow regulator (PFR2-10-S-0-9.00)	
⑤	011019	4	Bolt M8 x 90	
⑥	011093	4	Spring Washer M8	
⑦	043306	1	Bracket	
⑧	000426	2	Socket cap head screw 3/8" UNC X 1"	
⑨	011160	2	Adapter M/M 1/2" BSP	
⑩	011154	4	Dowty seal 1/2" BSP	
⑪	011167	2	Adapter 1/2" x 3/8" BSP	
⑫	011244	1	Plug 3/4" BSP	
⑬	011155	2	Dowty seal 3/4" BSP	
⑭	011166	1	Adapter 3/4" x 1/2" BSP	
⑮	011235	1	Adapter hose tail 1/2" BSP x 5/8" hose	
	043304	1	Flow control valve assembly, all items except ⑤, ⑥, ⑦ and ⑧	

Motor, hydraulic, drive

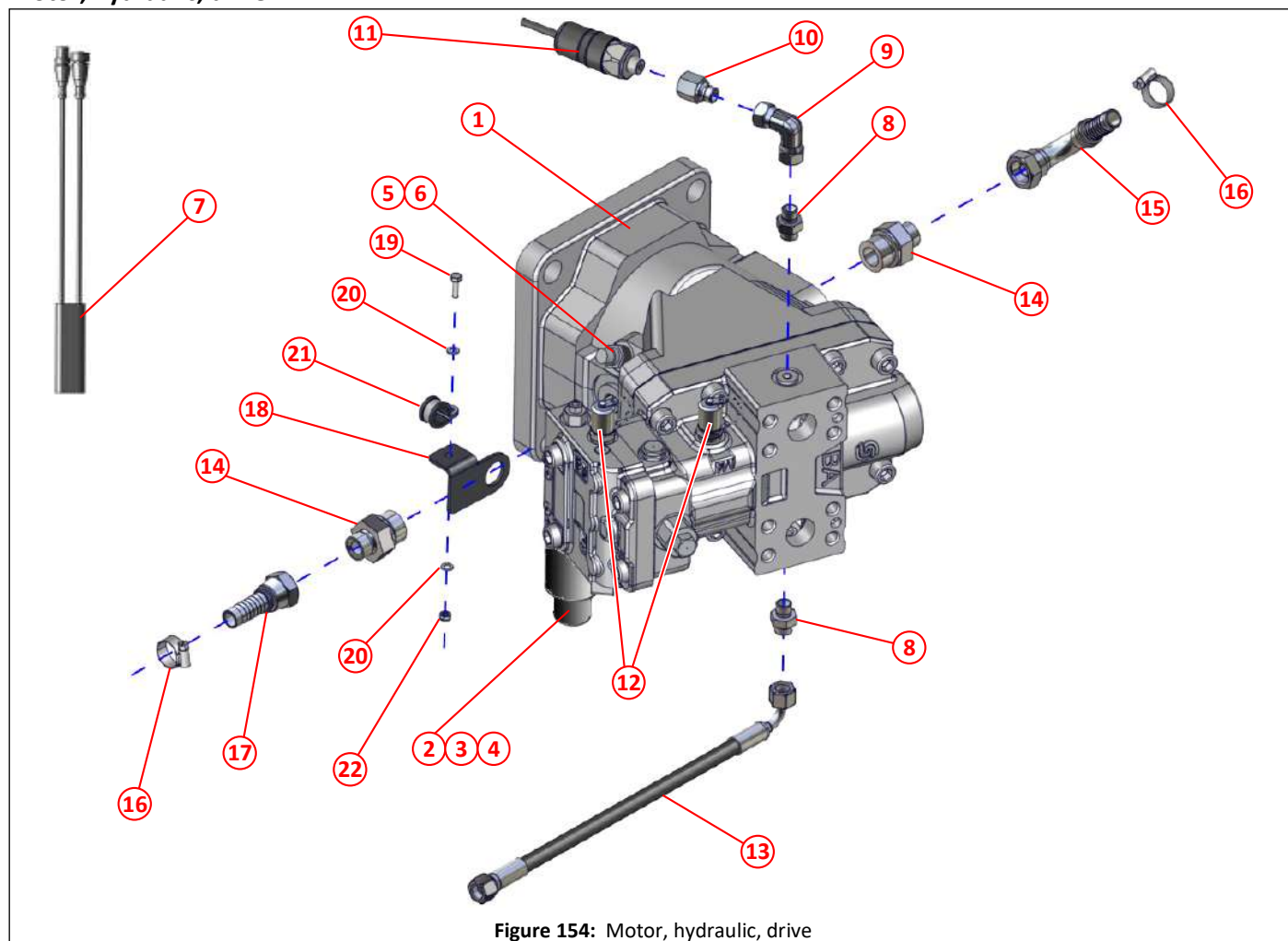


Figure 154: Motor, hydraulic, drive

Item	Part No	Qty	Description	
①	038661	1	Motor, hydraulic, drive, SAUER 51V110	
②	027238	1	Solenoid and coil, 12v	
③	026032	1	Coil, 12v	
④	026033	1	Plug, coil	
⑤	026179	1	Pulse pick up (PPU)	
⑥	025410	1	Connector lead, (PPU)	
⑦	044675	1	PPU regulator	
⑧	011264	2	Adapter $\frac{9}{16}$ " SAE x $\frac{1}{4}$ " BSP, complete with 'O'-Ring	
⑨	011169	1	Elbow, swivel, F/F, $\frac{1}{4}$ " BSP	
⑩	002014	1	Adapter, fixed, M/F, $\frac{1}{4}$ " BSP	
⑪	036872	1	Hydro pressure switch amp, 220 BAR rising	
⑫	002073	2	test point, $\frac{9}{16}$ " UNF	
⑬	001100	1	Hose $\frac{1}{4}$ " BSP x 460 (Straight/90°)	
⑭	011265	2	Adapter $\frac{11}{16}$ " SAE x $\frac{1}{2}$ " BSP, complete with 'O'-Ring	
⑮	011234	1	Elbow $\frac{1}{2}$ " BSP x $\frac{5}{8}$ " hose tail	
⑯	010517	2	Worm drive clip No. 0X (18 - 25)	
⑰	011235	1	Adapter, $\frac{1}{2}$ " BSP x $\frac{5}{8}$ " hose tail	
⑱	043014	1	Handbrake cable support	
⑲	000052	1	Bolt M5 x 16	
⑳	000410	2	Plain washer M5	
㉑	013293	1	Clip, pipe, 16mm	
㉒	000155	1	Nyloc nut M5	

Suction fan motor

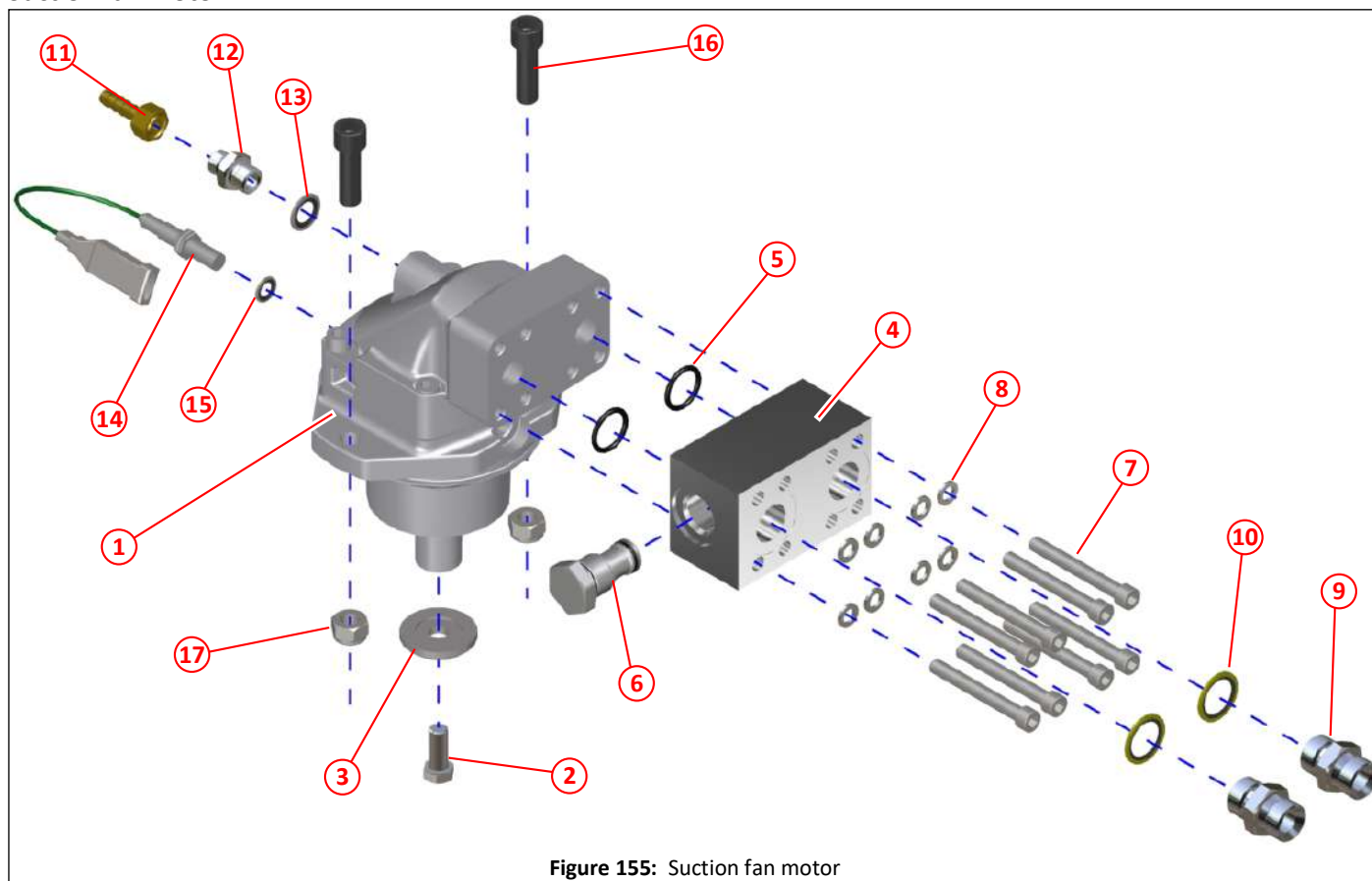


Figure 155: Suction fan motor

Item	Part No	Qty	Description	
①	024641	1	Motor	
②	011052	1	Set screw M12 x 30	
③	024791	1	Cap washer VOAC motor	
④	041633	1	Manifold	
⑤	041634	1	'O' ring	
⑥	041635	1	Check valve, includes washers and seal	
⑦	000048	8	Socket cap head screw M10 x 80	
⑧	011095	8	Spring washer M10	
⑨	011161	2	Adapter $\frac{3}{4}$ " BSP	
⑩	011155	2	Dowty seal $\frac{3}{4}$ " BSP	
⑪	010921	1	Adapter hose tail $\frac{3}{8}$ " BSP x $\frac{3}{8}$ " hose complete with nut	
⑫	011248	1	Adapter M18 x $\frac{3}{8}$ " BSP	
⑬	011247	1	Dowty seal M18	
⑭	025184	1	Speed sensor	
⑮	011215	1	Dowty seal M12	
⑯	000423	2	Socket cap head screw M14 x 45 12.9 black	
⑰	011127	2	Nyloc nut M14	
	025564	1	Suction fan motor assembly, all items except ⑯ and ⑰	
	041564	1	Anti-cavitation block, items ④, ⑤ and ⑥	

Radiator cooler assembly

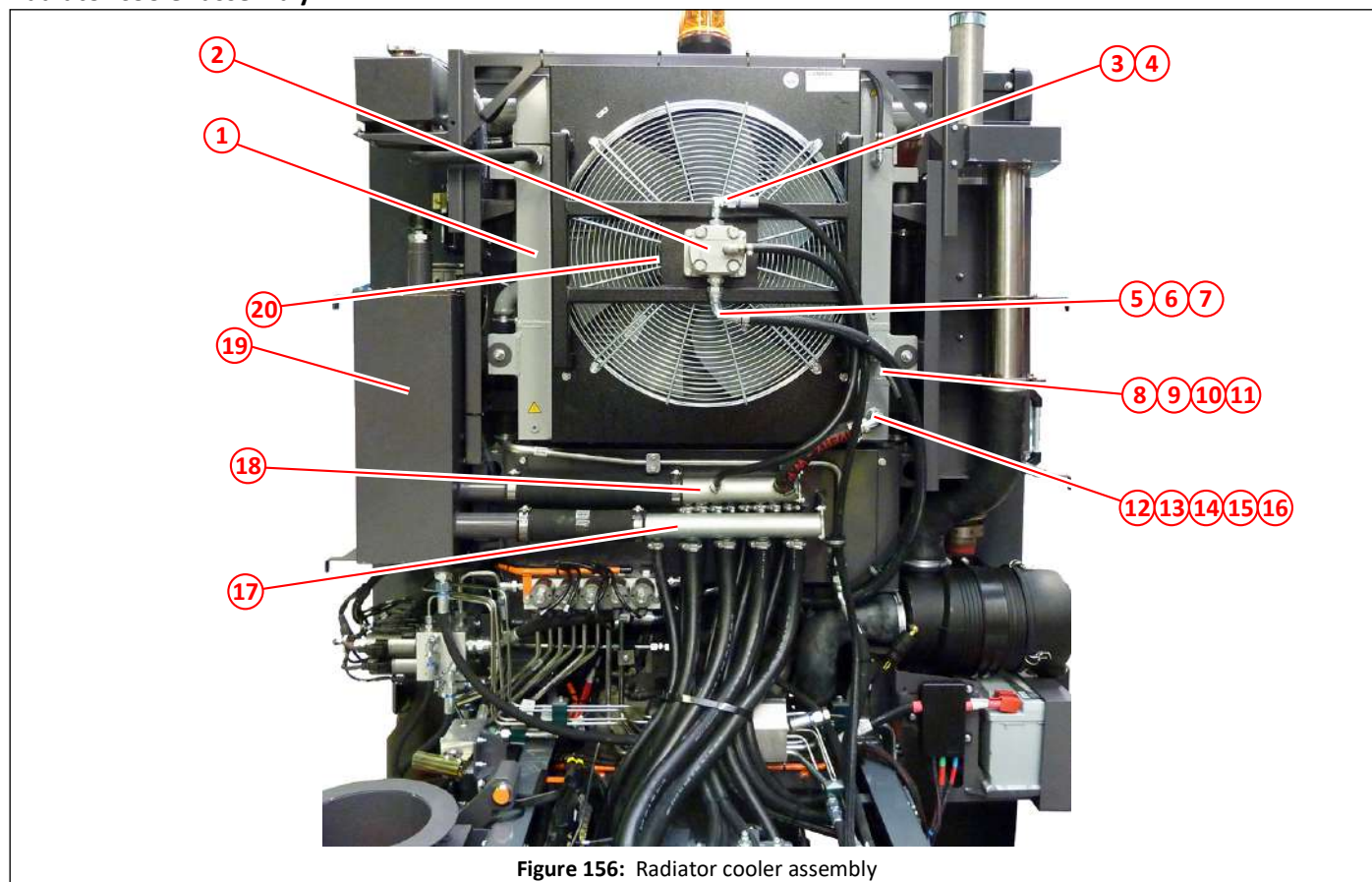


Figure 156: Radiator cooler assembly

Item	Part No	Qty	Description	
①	041663	1	Cooler assembly, less motor, includes fan and hub kit	
②	025372	1	Motor 14cc	192
③	011172	1	Swivel elbow M/F $\frac{3}{8}$ " BSP	
④	001335	1	Hose $\frac{3}{8}$ " BSP x 2000, straight and 90° ends	
⑤	011234	1	Adapter hose tail $\frac{1}{2}$ " BSP x $\frac{5}{8}$ " hose	
⑥	010517	1	Worm drive hose clamp OX (18 - 25)	
⑦	011000	1.2m	Hose $\frac{5}{8}$ ", to hydraulic return manifold	
⑧	002082	1	Dowty seal M26	
⑨	002083	1	Adapter M26 x $\frac{3}{4}$ " BSP	
⑩	011174	1	Swivel elbow M/F $\frac{3}{4}$ " BSP	
⑪	001219	1	Hose $\frac{5}{8}$ " x 861, $\frac{3}{4}$ " BSP straight and 45° ends	
⑫	002082	1	Dowty seal M26	
⑬	002083	1	Adapter M26 x $\frac{3}{4}$ " BSP	
⑭	002079	1	Swivel elbow hose tail $1\frac{1}{4}$ " BSPF x $1\frac{1}{4}$ " hose	
⑮	041973	1	Oil cooler return hose 1, to hydraulic return manifold	
⑯	010518	2	Worm drive hose clamp 1X [30 - 40]	
⑰	025148	1	Oil supply manifold	
⑱	041098	1	Oil return manifold	
⑲	045439	1	Hydraulic tank	196,197
⑳	046275	1	Cooler fan and hub and kit	

Radiator cooler assembly with sweep wash option

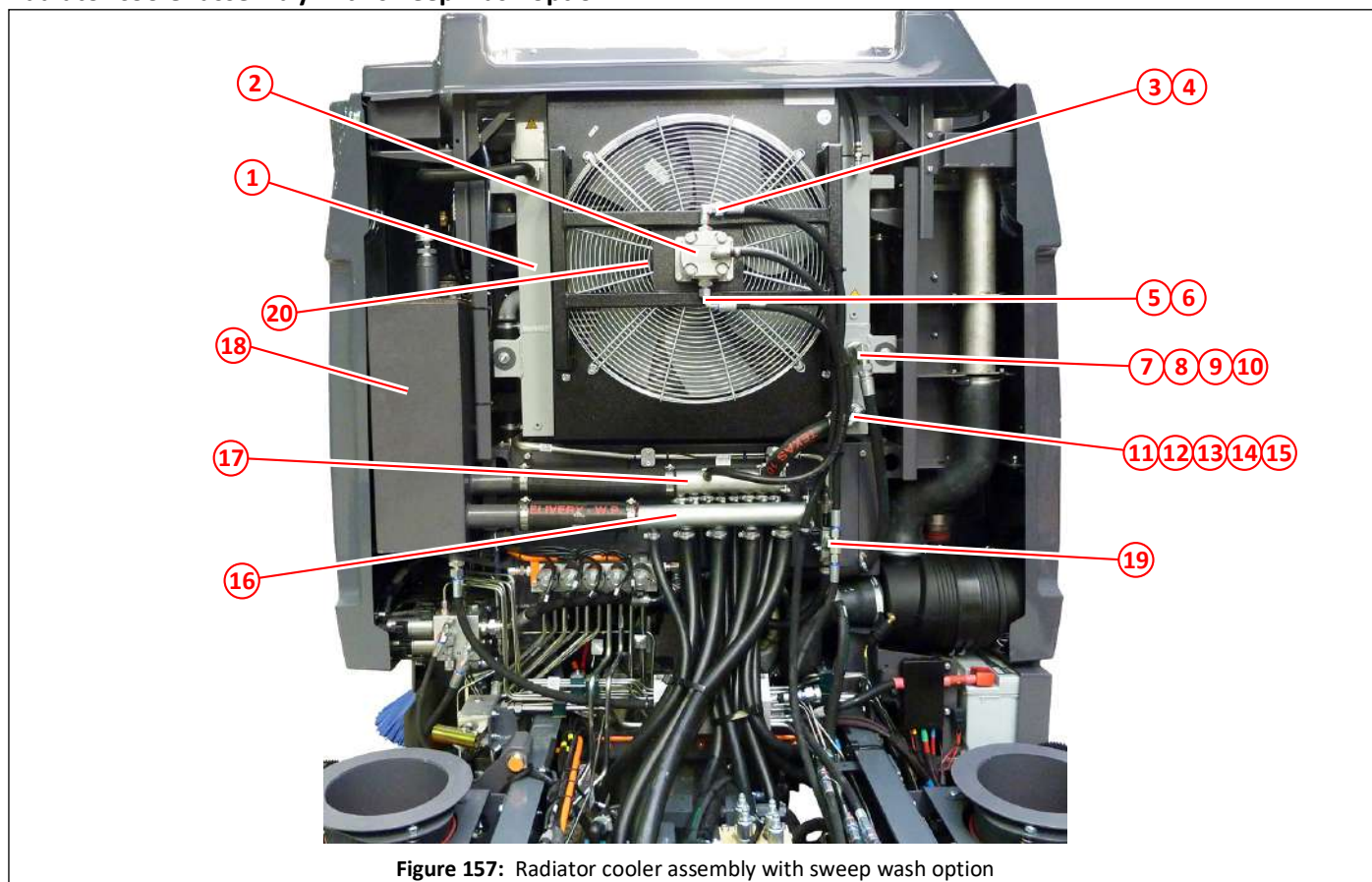


Figure 157: Radiator cooler assembly with sweep wash option

Item	Part No	Qty	Description	
①	041663	1	Cooler assembly, less motor, includes fan and hub kit	
②	025372	1	Motor 14cc	193
③	011172	1	Swivel elbow M/F $\frac{3}{8}$ " BSP	
④	001335	1	Hose $\frac{3}{8}$ " BSP x 2000, straight and 90° ends	
⑤	011172	1	Swivel elbow M/F $\frac{3}{8}$ " BSP	
⑥	001227	1	Hose $\frac{3}{8}$ " BSP x 680, straight ends	
⑦	002082	1	Dowty seal M26	
⑧	002083	1	Adapter M26 x $\frac{3}{4}$ " BSP	
⑨	011174	1	Swivel elbow M/F $\frac{3}{4}$ " BSP	
⑩	001219	1	Hose $\frac{5}{8}$ " x 861, $\frac{3}{4}$ " BSP straight and 45° ends	
⑪	002082	1	Dowty seal M26	
⑫	002083	1	Adapter M26 x $\frac{3}{4}$ " BSP	
⑬	002079	1	Swivel elbow hose tail $1\frac{1}{4}$ " BSPF x $1\frac{1}{4}$ " hose	
⑭	041973	1	Oil cooler return hose 1, to hydraulic return manifold	
⑮	010518	2	Worm drive hose clamp 1X [30 - 40]	
⑯	025148	1	Oil supply manifold	
⑰	041098	1	Oil return manifold	
⑱	045439	1	Hydraulic tank	196,197
⑲	042098	1	Sweep wash valve assembly	195
⑳	046275	1	Cooler fan and hub kit	

Cooler fan motor

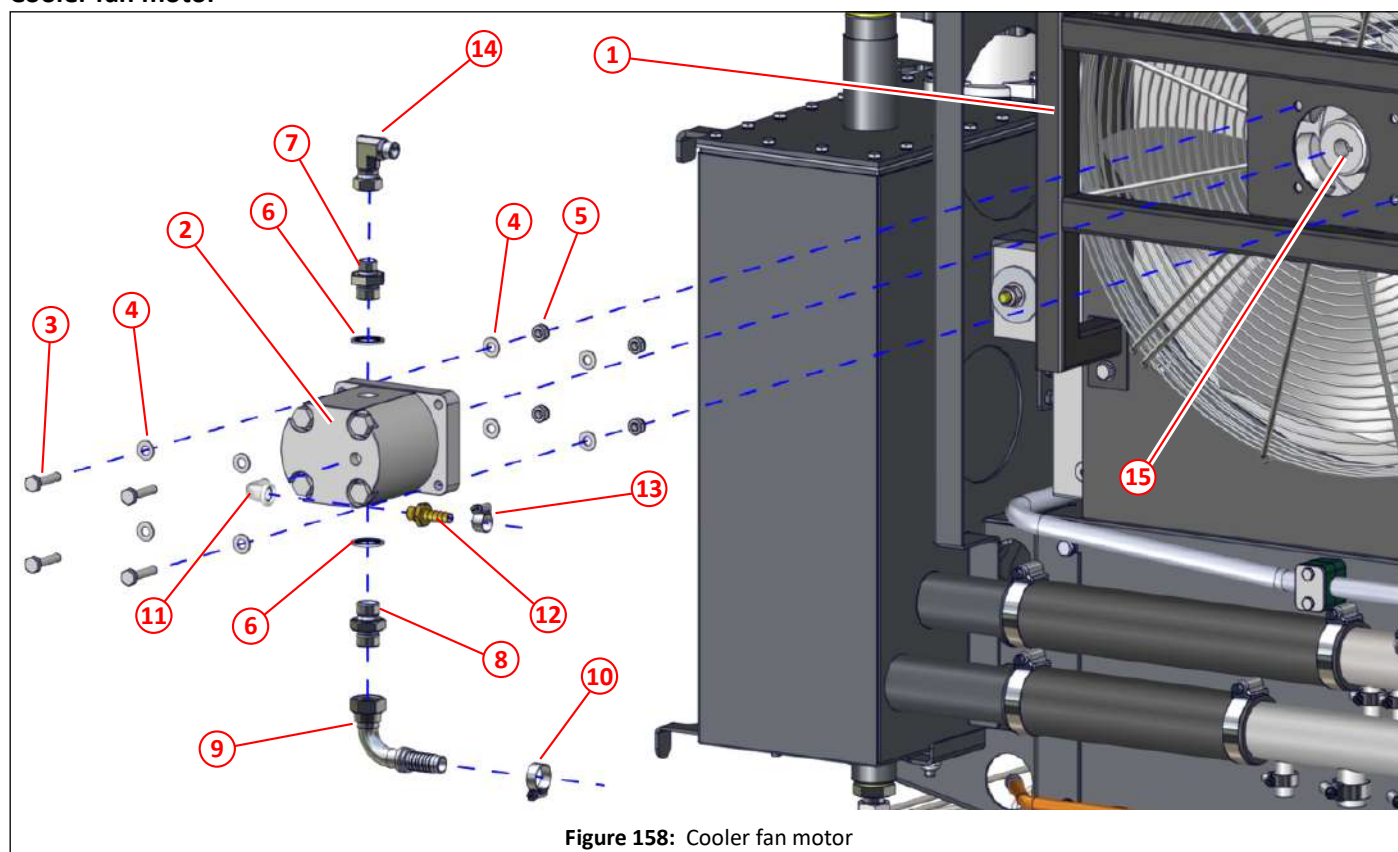


Figure 158: Cooler fan motor

Item	Part No	Qty	Description	
①	041663	1	Cooler assembly, less motor	
②	025372	1	Motor 14cc	
③	011013	4	Set screw M8 x 35	
④	011092	8	Plain washer M8	
⑤	011073	4	Nyloc nut M8	
⑥	011154	2	Dowty seal $\frac{1}{2}$ " BSP	
⑦	011167	1	Adapter $\frac{1}{2}$ " BSP x $\frac{3}{8}$ " BSP	
⑧	011160	1	Adapter $\frac{1}{2}$ " BSP	
⑨	011234	1	Adapter hose tail $\frac{1}{2}$ " BSP x $\frac{5}{8}$ " hose	
NI	011000	As req	Hose $\frac{5}{8}$ ", to hydraulic return manifold	
⑩	010517	1	Worm drive hose clamp OX (18 - 25)	
⑪	010910	1	Elbow $\frac{1}{4}$ " BSP	
⑫	010922	1	Adapter hose tail $\frac{1}{4}$ " BSP x $\frac{3}{8}$ " hose	
NI	010958	As req	Hose $\frac{3}{8}$ " BSP, to oil return manifold	
⑬	010516	1	Worm drive hose clamp MOO [11-16]	
⑭	011172	1	Swivel elbow M/F $\frac{3}{8}$ " BSP	
⑮	046275	1	Cooler fan and hub	

Cooler fan motor for sweep wash

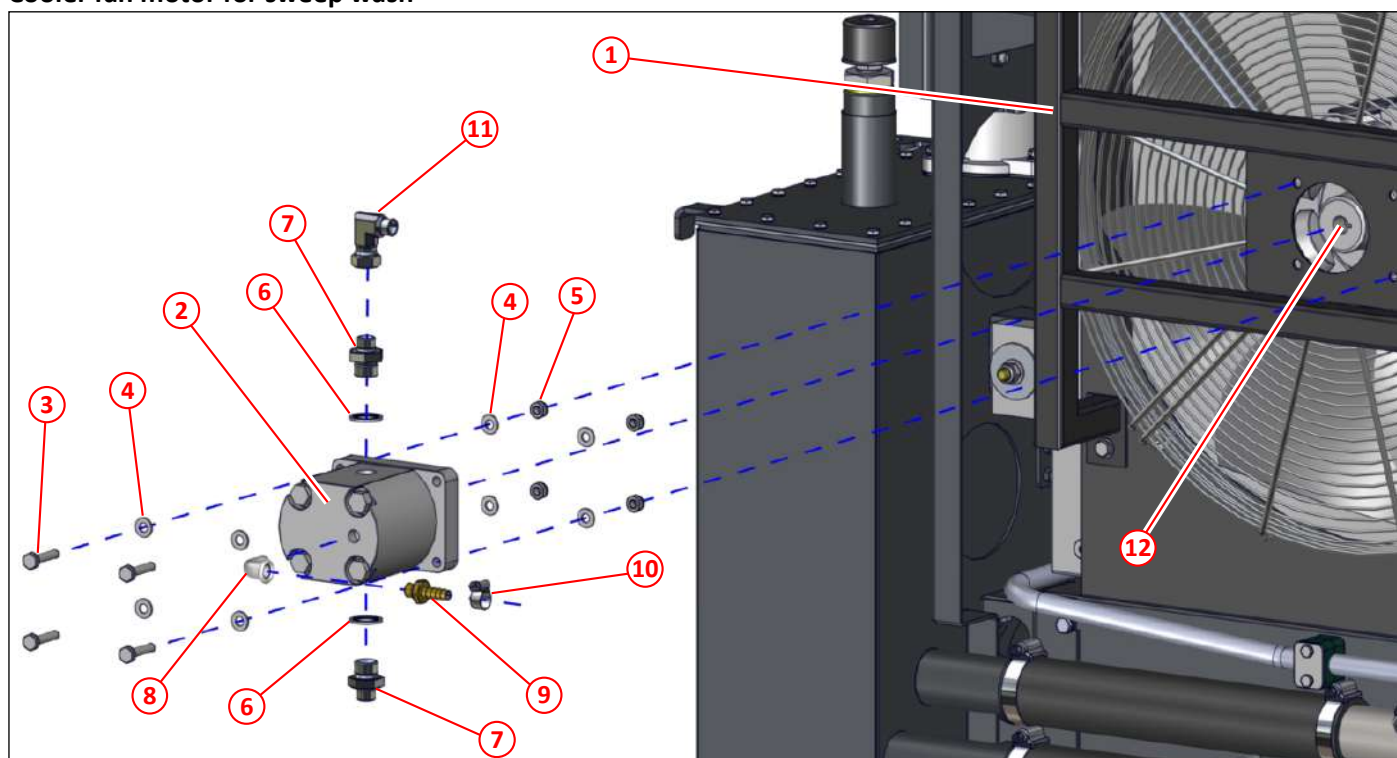
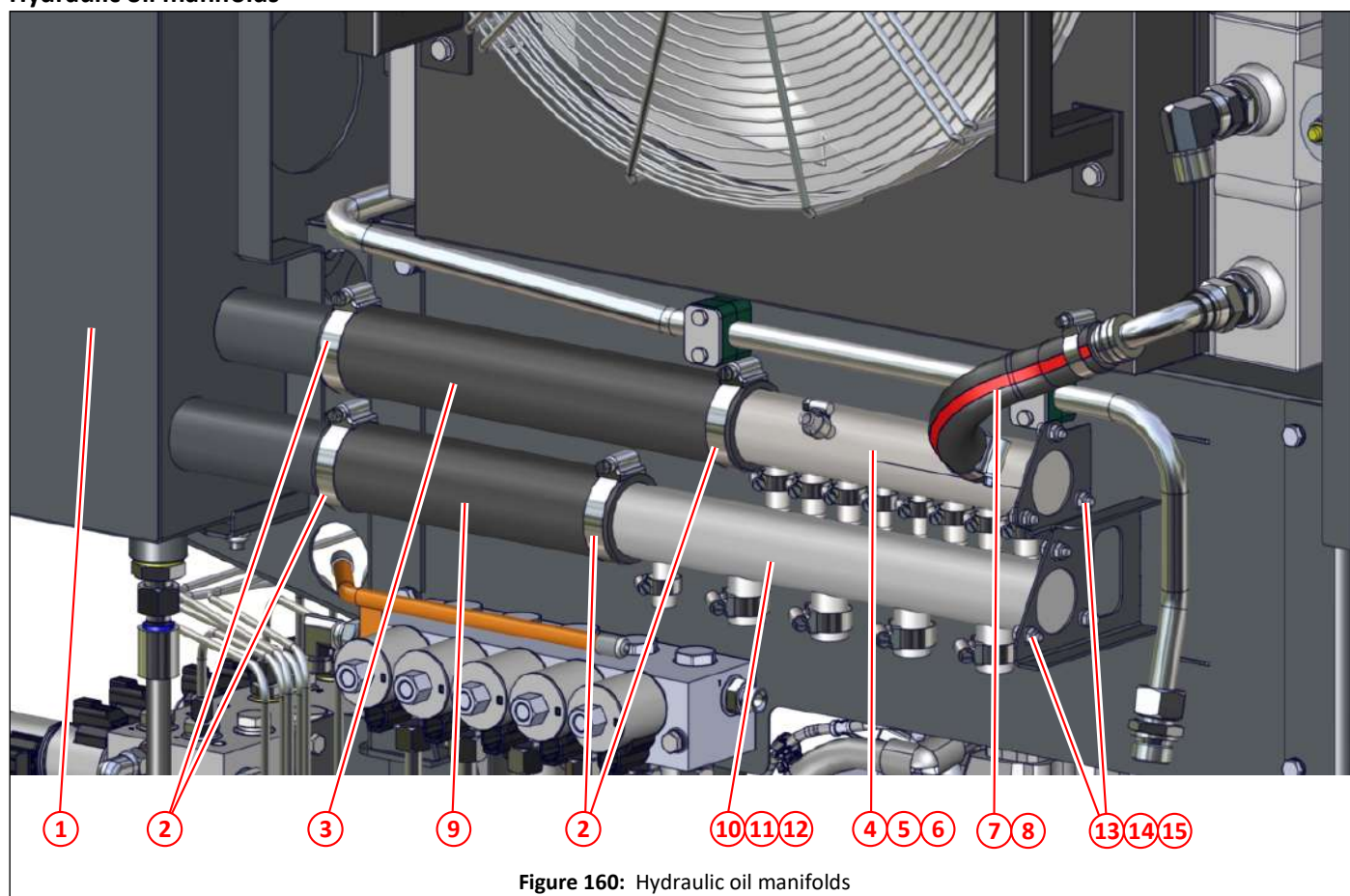


Figure 159: Cooler fan motor for sweep wash

Item	Part No	Qty	Description	
①	041663	1	Cooler assembly, less motor	
②	025372	1	Motor 14cc	
③	011013	4	Set screw M8 x 35	
④	011092	8	Plain washer M8	
⑤	011073	4	Nyloc nut M8	
⑥	011154	2	Dowty seal $\frac{1}{2}$ " BSP	
⑦	011167	2	Adapter $\frac{1}{2}$ " BSP x $\frac{3}{8}$ " BSP	
⑧	010910	1	Elbow $\frac{1}{4}$ " BSP	
⑨	010922	1	Adapter hose tail $\frac{1}{4}$ " BSP x $\frac{3}{8}$ " hose	
NI	010958	As req	Hose $\frac{3}{8}$ " BSP, to oil return manifold	
⑩	010516	1	Worm drive hose clamp MOO [11-16]	
⑪	011172	1	Swivel elbow M/F $\frac{3}{8}$ " BSP	
⑫	046275	1	Cooler fan and hub	

Hydraulic oil manifolds



Item	Part No	Qty	Description	
①	041935	1	Hydraulic tank	
②	028778	4	Clamp, worm drive, high torque, 70 [40-70mm]	
③	041974	1	Oil cooler return hose 2	
④	041098	1	Oil return manifold	
⑤	010516	1	Clamp, worm drive, No. MOO [11-16mm]	
⑥	010517	8	Clamp, worm drive, No. OX [18-25mm]	
⑦	041973	1	Oil cooler return hose 1	
⑧	010518	2	Clamp, worm drive, No. 1X [30-40mm]	
⑨	041975	1	Oil supply hose	
⑩	025148	1	Oil supply manifold	
⑪	010517	8	Clamp, worm drive, No. OX [18-25mm]	
⑫	010518	2	Clamp, worm drive, No. 1X [30-40mm]	
⑬	011001	6	Set screw M6 x 16	
⑭	011090	12	Plain washer M6	
⑮	011071	6	Nyloc nut M6	

Sweep wash valve assembly

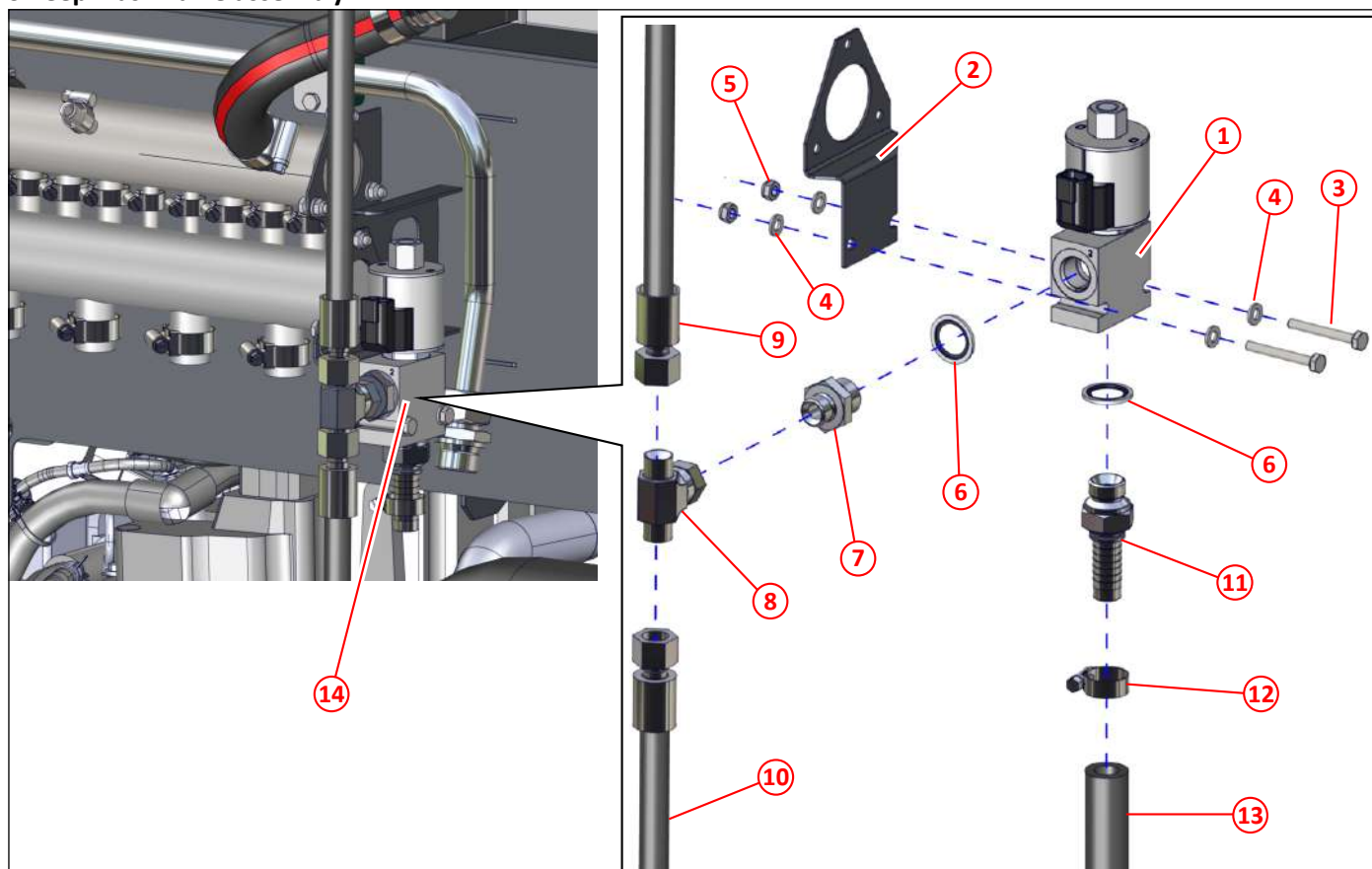


Figure 161: Sweep wash valve assembly

Item	Part No	Qty	Description	
①	043185	1	Sweep wash valve, includes block, solenoid valve, coil and nut	
②	043626	1	Sweep wash valve bracket	
③	000120	2	Set screw M6 x 45	
④	011090	4	Plain washer M6	
⑤	011071	2	Nyloc nut M6	
⑥	011154	2	Dowty seal $\frac{1}{2}$ " BSP	
⑦	011167	1	Adapter $\frac{1}{2}$ " BSP x $\frac{3}{8}$ " BSP	
⑧	002013	1	Tee $\frac{3}{8}$ " BSP, nut on branch	
⑨	001227	1	Hose $\frac{3}{8}$ " BSP x 680, straight and 90° ends, from fan motor	
⑩	001314	1	Hose $\frac{3}{8}$ " BSP x 700, straight ends, to flow control valve	
⑪	002159	1	Adapter hose tail $\frac{1}{2}$ " BSP x $\frac{5}{8}$ " hose	
⑫	010517	1	Clamp, worm drive, No. OX [18-25mm]	
⑬	011000	As req	Hose $\frac{5}{8}$ ", to hydraulic return manifold	
⑭	042098	1	Sweep wash valve complete, all items except hoses ⑨, ⑩ & ⑬	

Hydraulic oil tank

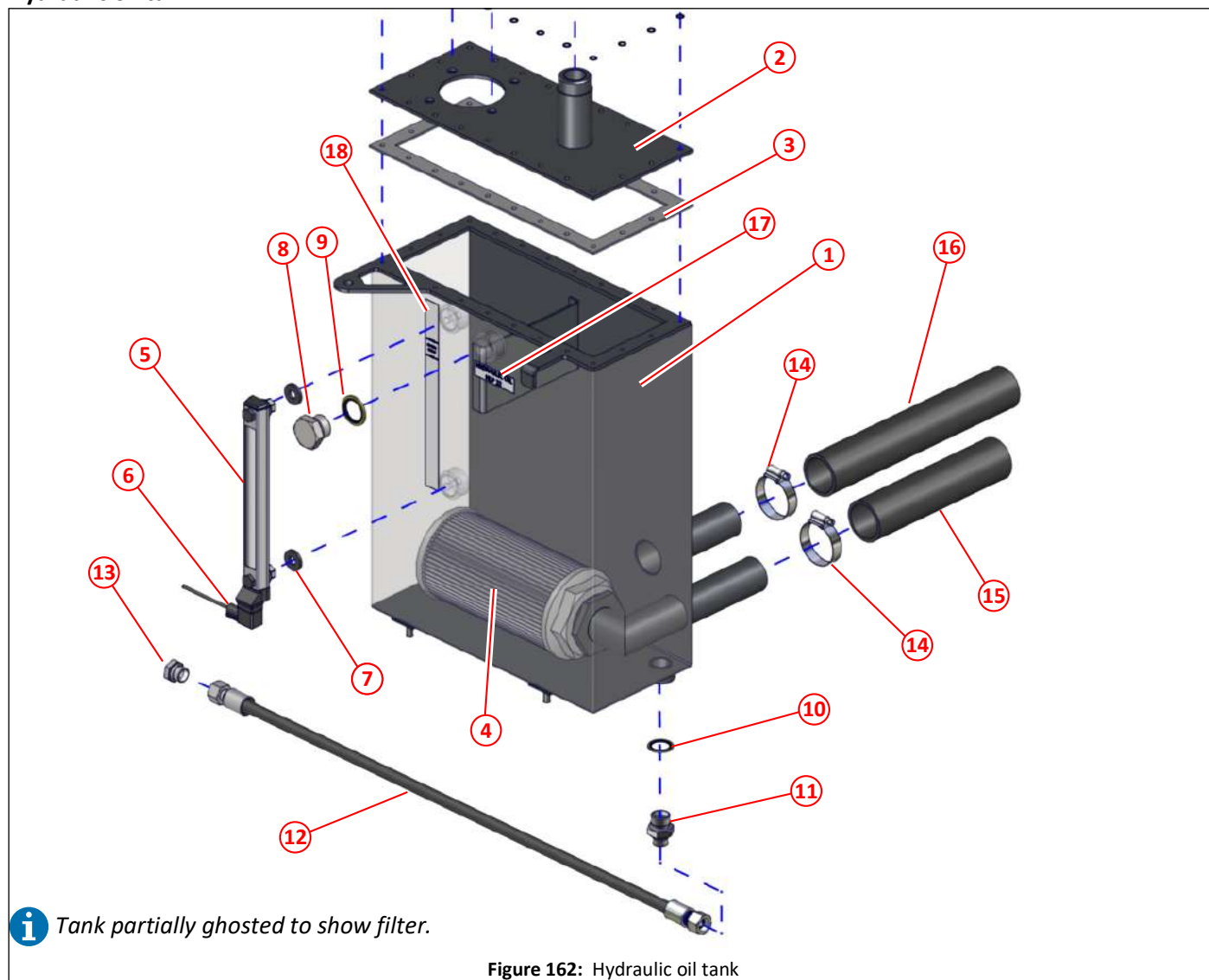


Figure 162: Hydraulic oil tank

Item	Part No	Qty	Description	
①	045439	1	Oil tank	
②	041956	1	Oil tank lid	
③	041957	1	Gasket oil tank	
④	020687	1	Filter suction element	
⑤	024039	1	Level gauge with switch	
⑥	036842	1	M12 plug/cable and valve plug type B	
⑦	036794	2	Rubber sealing washer $\varnothing 12 \times \varnothing 30 \times 4$	
⑧	011136	1	Plug 1" BSP	
⑨	011156	1	Dowty seal 1" BSP	
⑩	011155	1	Dowty seal $\frac{3}{4}$ " BSP	
⑪	011166	1	Adapter $\frac{3}{4}$ " BSP x $\frac{1}{2}$ " BSP	
⑫	010996	1	Hose $\frac{1}{2}$ " BSP x 915, straight ends, tank drain	
⑬	011243	1	Plug $\frac{1}{2}$ " BSP, tank drain	
⑭	028778	2	Clamp, worm drive, high torque, [40-70mm]	
⑮	041975	1	Oil supply hose	
⑯	041974	1	Oil cooler return hose 2	
⑰	028760	1	Oil tank label 'HLP 32'	
⑱	034549	1	Hydraulic oil level label	

Hydraulic oil tank

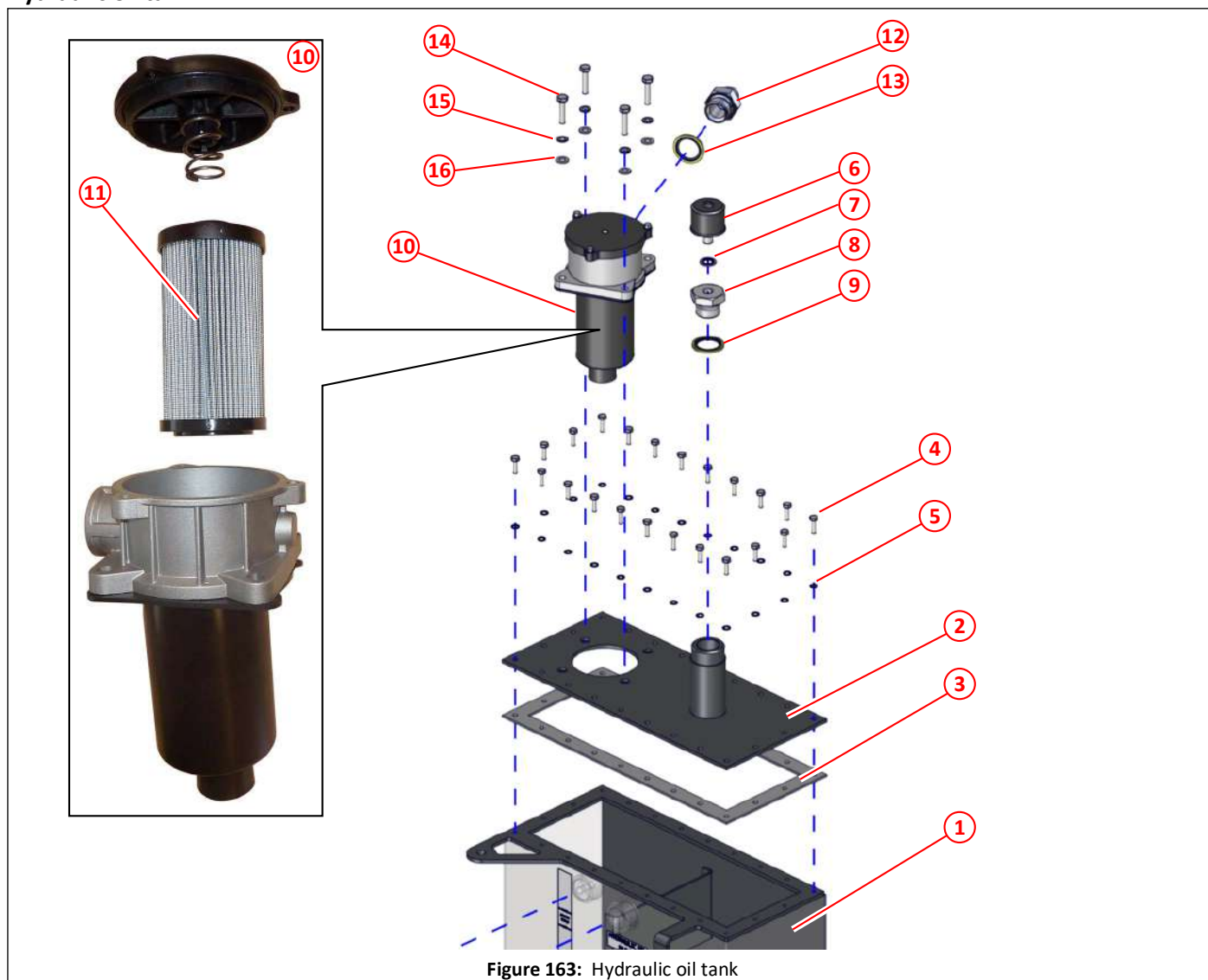


Figure 163: Hydraulic oil tank

Item	Part No	Qty	Description	
①	045439	1	Oil tank	
②	041956	1	Oil tank lid	
③	041957	1	Gasket oil tank	
④	011067	22	Set screw M6 x 20	
⑤	000339	22	Lock washer M6	
⑥	020688	1	Filter air breather	
⑦	011216	1	Dowty seal M14	
⑧	020689	1	Filler plug	
⑨	011156	1	Dowty seal 1" BSP	
⑩	038538	1	Return filter, complete with element	
⑪	011972	1	Return filter element	
⑫	011139	1	Adapter 1" BSP x $\frac{3}{4}$ " BSP	
⑬	011156	1	Dowty seal 1" BSP	
⑭	011013	4	Set screw M8 x 35	
⑮	011093	4	Spring washer M8	
⑯	011092	4	Plain washer M8	

Transmission oil filter

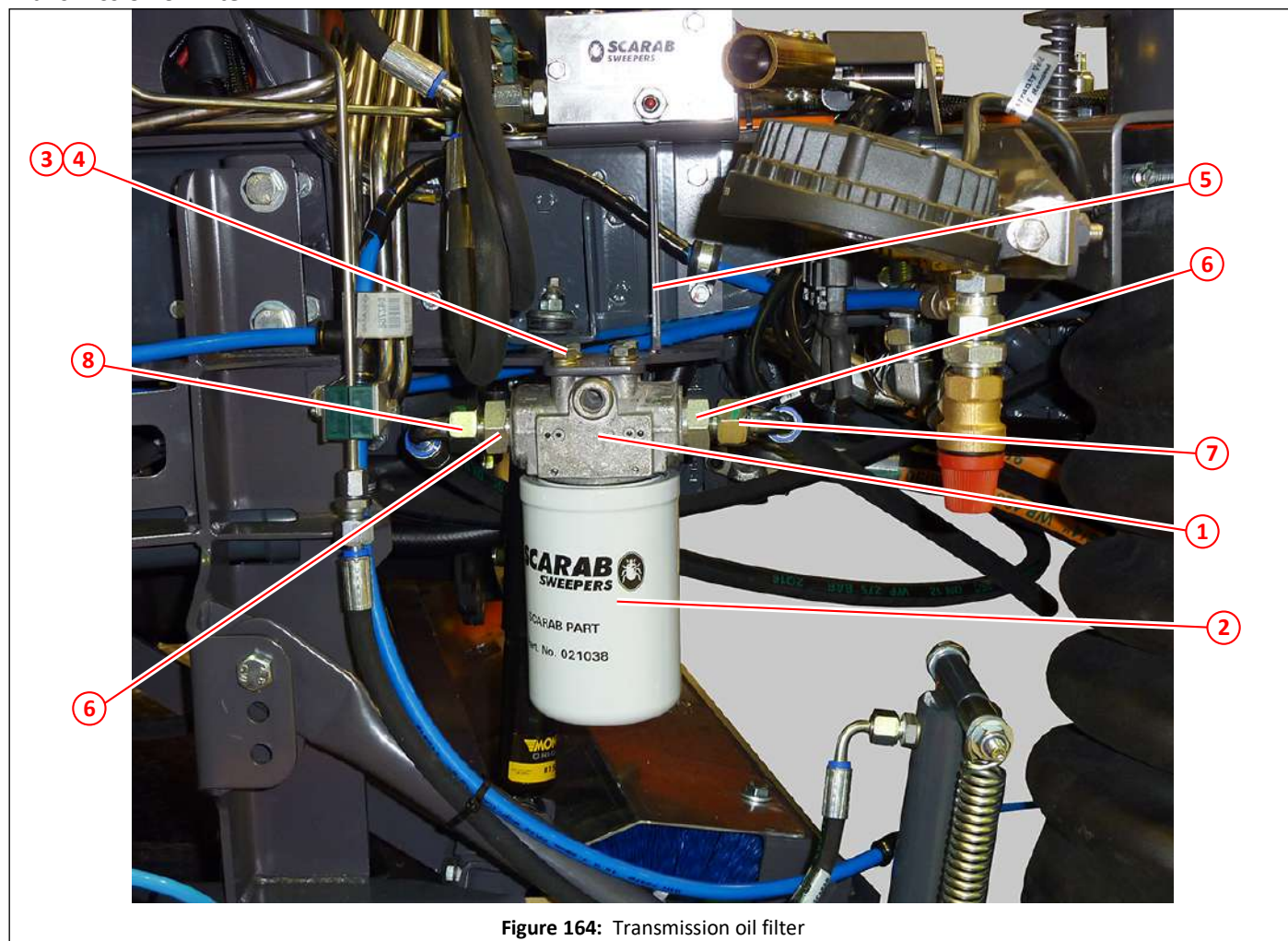
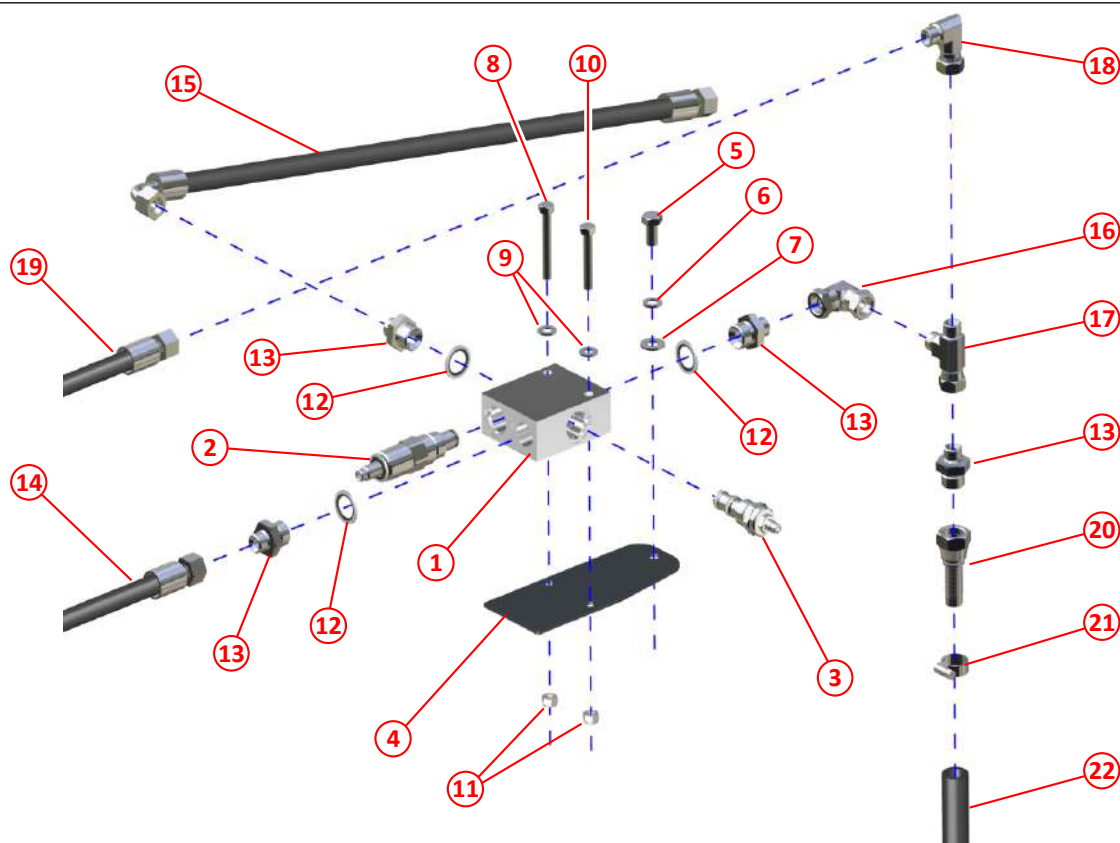


Figure 164: Transmission oil filter

Item	Part No	Qty	Description	
①	021731	1	Filter head	
②	021038	1	Filter element	
③	011022	4	Set screw $\frac{3}{8}$ " UNC x $\frac{3}{4}$ "	
④	011406	4	Spring washer $\frac{3}{8}$ "	
⑤	042603	1	Bracket, transmission filter and hand pump	
⑥	011265	2	Adapter $1\frac{1}{16}$ " SAE x $\frac{1}{2}$ " BSP, complete with 'O' ring	
⑦	001315	1	Hose $\frac{1}{2}$ " BSP x 970, straight and 90° ends	
⑧	001316	1	Hose $\frac{1}{2}$ " BSP x 1070, straight and 90° ends	

Relief and regulator valve for power steering pump, not HEMA steering boxes

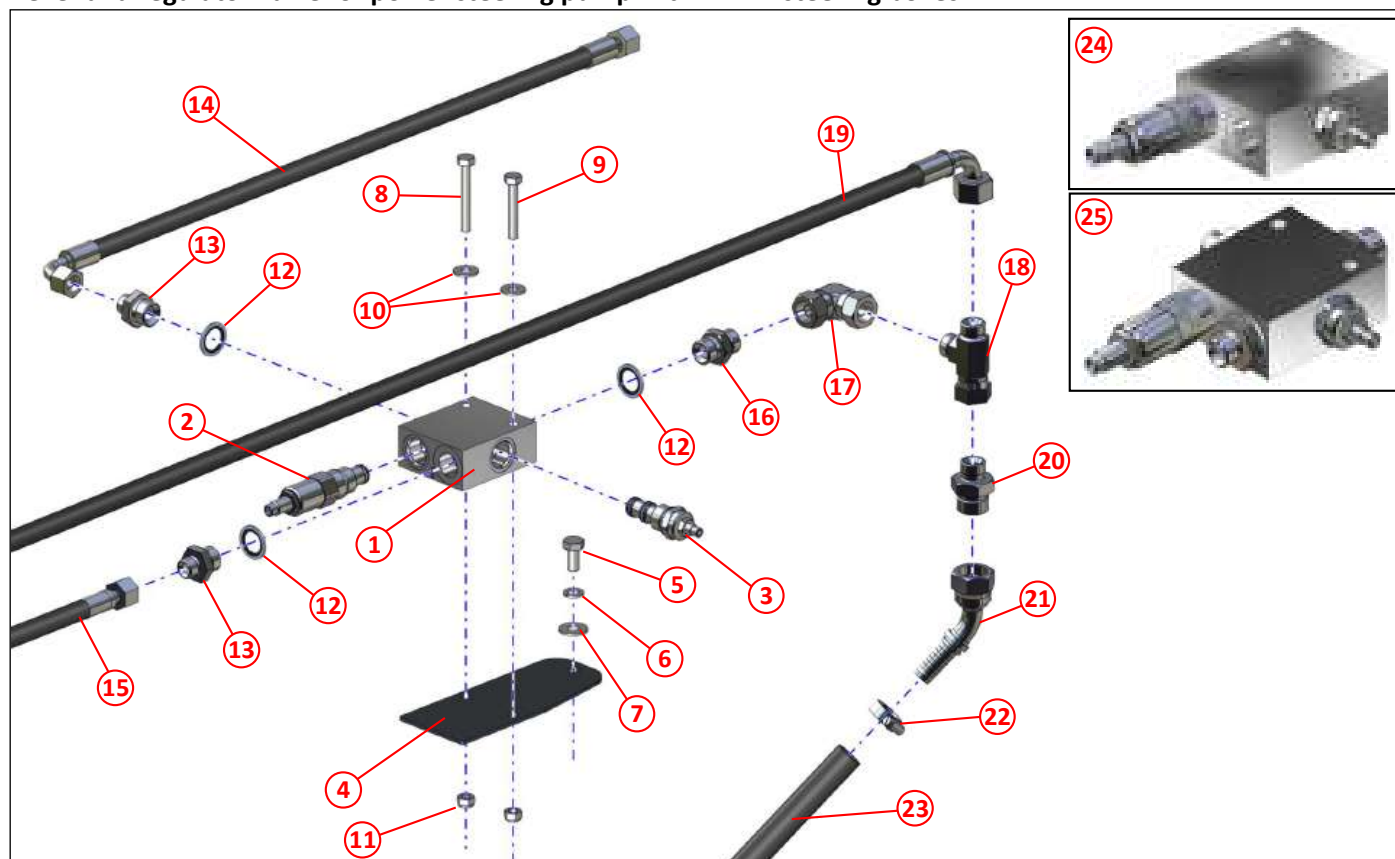


i This is for machines with engine mounted air-conditioning compressor or not equipped with air-conditioning. See page 201 for machines equipped with remote mounted air-conditioning compressor. Not **HEMA** steering boxes.

Figure 165: Relief and regulator valve for power steering pump

Item	Part No	Qty	Description	
①	041618	1	Manifold	
②	041619	1	Relief valve - RV10-20A	
③	041620	1	Flow regulator valve - FR10-39A	
④	044077	1	Mounting plate	
⑤	011030	1	Set screw M10 x 20	
⑥	011095	1	Spring washer M10	
⑦	011094	1	Plain washer M10	
⑧	011017	1	Bolt M8 x 60	
⑨	011092	2	Plain washer M8	
⑩	011016	1	Set screw M8 x 50	
⑪	011073	2	Nyloc nut M8	
⑫	011154	3	Dowty seal $\frac{1}{2}$ " BSP	
⑬	011167	4	Adapter $\frac{1}{2}$ " BSP x $\frac{3}{8}$ " BSP	
⑭	001161	1	Hose $\frac{3}{8}$ " BSP x 1100, straight and 90° ends, only right hand drive. See ⑮ for left hand drive	
⑮	001227	1	Hose $\frac{3}{8}$ " BSP x 680, straight and 90° ends	
⑯	011205	1	Swivel elbow F/F $\frac{3}{8}$ " BSP	
⑰	011223	1	Tee $\frac{3}{8}$ " BSP, nut on run	
⑱	011172	1	Swivel elbow M/F $\frac{3}{8}$ " BSP	
⑲	001163	1 or 2	Hose $\frac{3}{8}$ " BSP x 1250, straight and 90° ends, if left hand drive ⑭ is replaced with one of these.	
⑳	011235	1	Adapter hose tail $\frac{1}{2}$ " x $\frac{5}{8}$ " hose	
㉑	010517	1	Clamp, worm drive, No. OX [18-25mm]	
㉒	011000	1.5m	Hose $\frac{5}{8}$ ", SAE100R6, to hydraulic return manifold	
	041561	1	Relief and regulator valve for power steering pump, items ①, ② and ③	

Relief and regulator valve for power steering pump with HEMA steering boxes



i This is for machines with engine mounted air-conditioning compressor or not equipped with air-conditioning.
See page 201 for machines equipped with remote mounted air-conditioning compressor with **HEMA** steering boxes.

Figure 166: Relief and regulator valve for power steering pump with HEMA steering boxes

Item	Part No	Qty	Description	
①	041618	1	Manifold	
②	041619	1	Relief valve - RV10-20A	
③	041620	1	Flow regulator valve - FR10-39A	
④	044077	1	Mounting plate	
⑤	011030	1	Set screw M10 x 20	
⑥	011095	1	Spring washer M10	
⑦	011094	1	Plain washer M10	
⑧	011017	1	Bolt M8 x 60	
⑨	011016	1	Set screw M8 x 50	
⑩	011092	2	Plain washer M8	
⑪	011073	2	Nyloc nut M8	
⑫	011154	3	Dowty seal $\frac{1}{2}$ " BSP	
⑬	011167	2	Adapter $\frac{1}{2}$ " BSP x $\frac{3}{8}$ " BSP	
⑭	001227	1	Hose $\frac{3}{8}$ " BSP x 680, straight and 90° ends	
⑮	001350	1	Hose $\frac{3}{8}$ " BSP x 1400, straight and M16 banjo ends, right hand drive only.	
⑮	001351	1	Hose $\frac{3}{8}$ " BSP x 1500, straight and M16 banjo ends, left hand drive only.	
⑯	011160	1	Adapter $\frac{1}{2}$ " BSP M/M	
⑰	002098	1	Swivel elbow F/F $\frac{1}{2}$ " BSP	
⑱	011182	1	Tee, nut on run, $\frac{1}{2}$ " BSP	
⑲	001339	1	Hose $\frac{1}{2}$ " BSP x 1500, straight and 90° ends	
⑳	011166	1	Adapter $\frac{3}{4}$ " BSP x $\frac{1}{2}$ " BSP	
㉑	001221	1	Adapter, $\frac{3}{4}$ " BSP x $\frac{5}{8}$ " hose tail, 45°	
㉒	010517	1	Clamp, worm drive, No. OX [18-25mm]	
㉓	011000	1.5m	Hose $\frac{5}{8}$ " SAE100R6, to hydraulic return manifold	
㉔	041561	1	Relief and regulator valve for power steering pump, items ①, ② and ③.	
㉕	046484	1	Relief and regulator valve for power steering pump, items ①, ②, ③, ⑫, ⑬ and ⑯.	

Relief and regulator valve for air-conditioning and power steering pump, remote mounted compressor

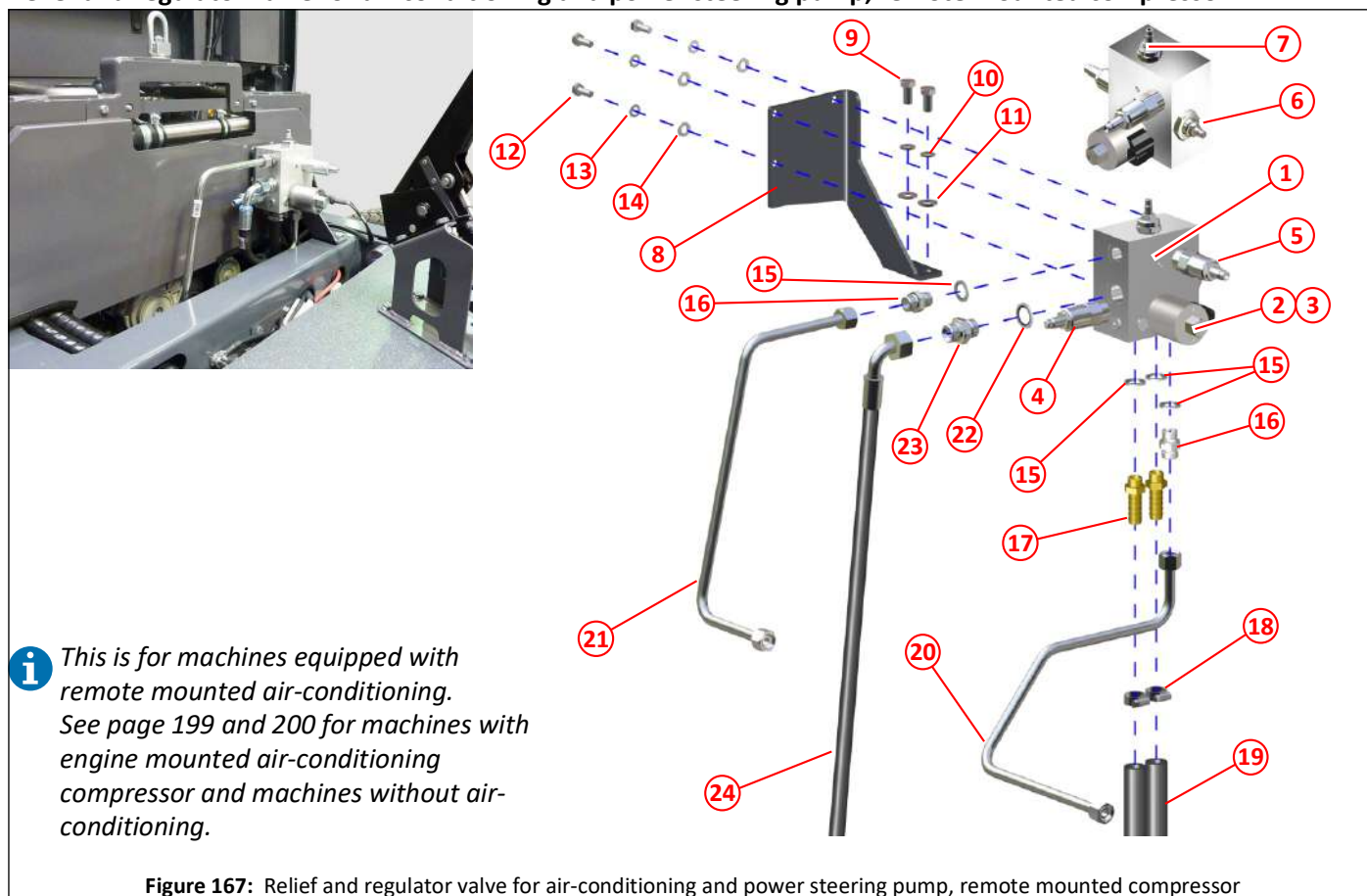


Figure 167: Relief and regulator valve for air-conditioning and power steering pump, remote mounted compressor

Item	Part No	Qty	Description	
①	044231	1	Manifold	
②	044053	1	Solenoid valve, SV10-21-0-N-00	
③	041224	1	Coil 12v / 20.5 watts	
④	044232	1	Relief valve RV10-22A-0-N-35/M170	
⑤	044233	1	Relief valve RV08-22A-0-N-35/M85	
⑥	044234	1	Flow regulator FR12-33A-0-N	
⑦	044235	1	Flow regulator FR10-39A-0-N	
⑧	043184	1	Mounting bracket	
⑨	011030	2	Set screw M10 x 20	
⑩	011095	2	Spring washer M10	
⑪	011094	2	Plain washer M10	
⑫	011010	3	Set screw M8 x 20	
⑬	011093	3	Spring washer M8	
⑭	011092	3	Plain washer M8	
⑮	011153	4	Dowty seal $\frac{3}{8}$ " BSP	
⑯	020903	2	Adapter 12mm x $\frac{3}{8}$ " BSP	
⑰	010930	2	Adapter hose tail $\frac{3}{8}$ " BSP x $\frac{5}{8}$ " hose	
⑱	010517	2	Clamp, worm drive, No. OX [18-25mm]	
⑲	011000	3m	Hose $\frac{5}{8}$ " SAE100R6, to hydraulic return manifold	
⑳	043297	1	Steel pipe, power steering supply	
㉑	043296	1	Steel pipe, air-conditioning supply	
㉒	011154	1	Dowty seal $\frac{1}{2}$ " BSP	
㉓	011160	1	Adapter $\frac{1}{2}$ " BSP	
㉔	002129	1	Hose $\frac{1}{2}$ " x 750, straight and 90° ends	
㉕	043056	1	AC and PAS valve block assembly, items ①, ②, ③, ④, ⑤, ⑥ and ⑦	

Auto blanking valve dual sweep

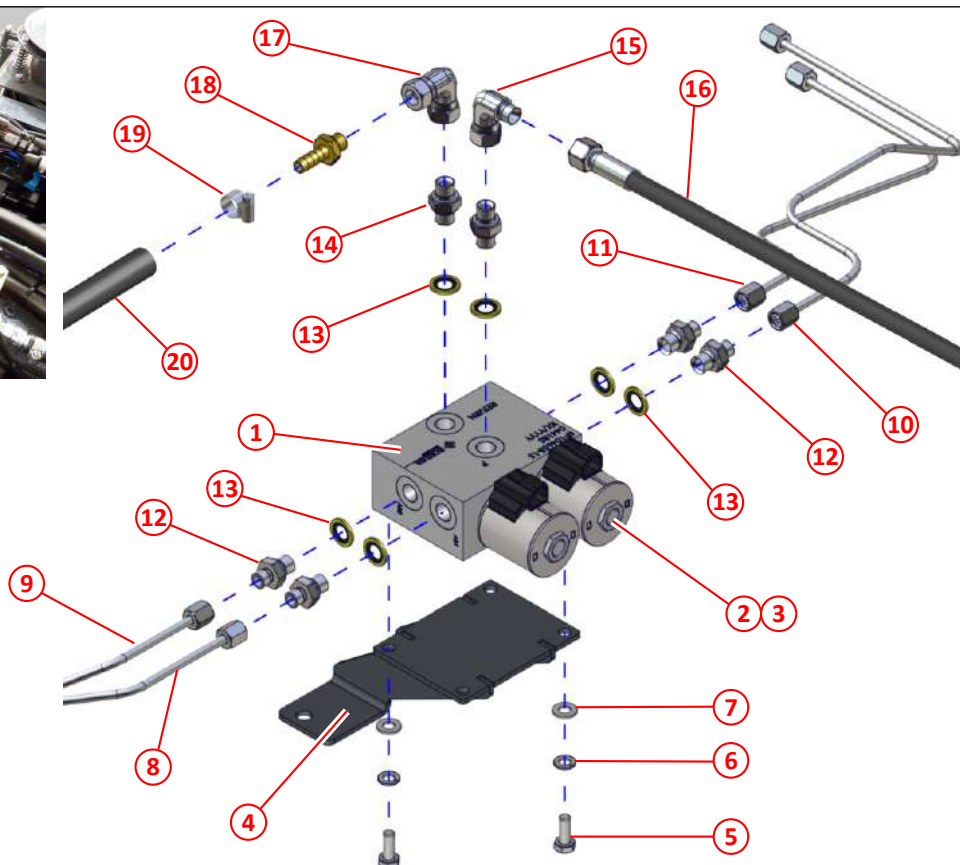
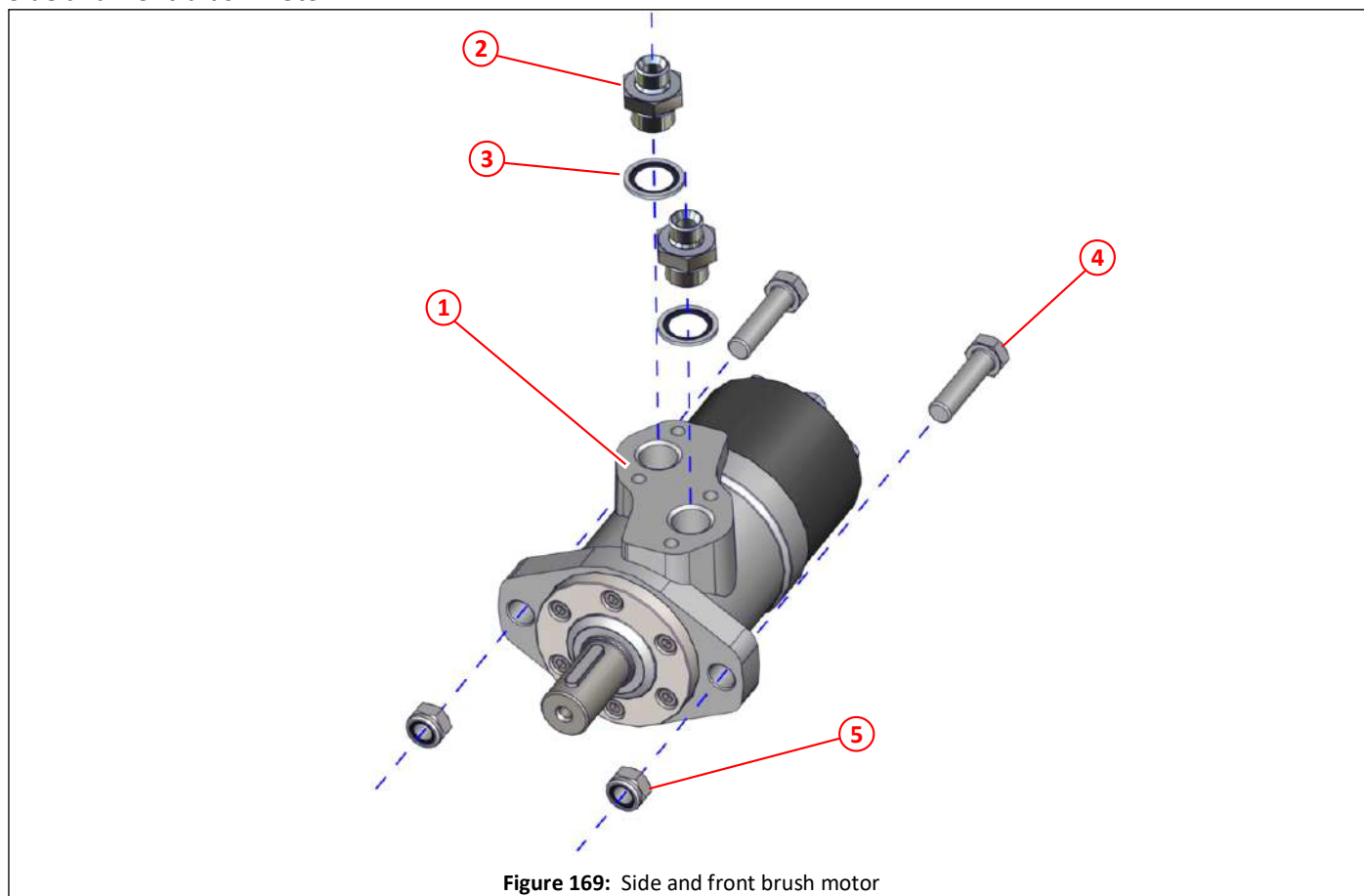


Figure 168: Auto blanking valve dual sweep

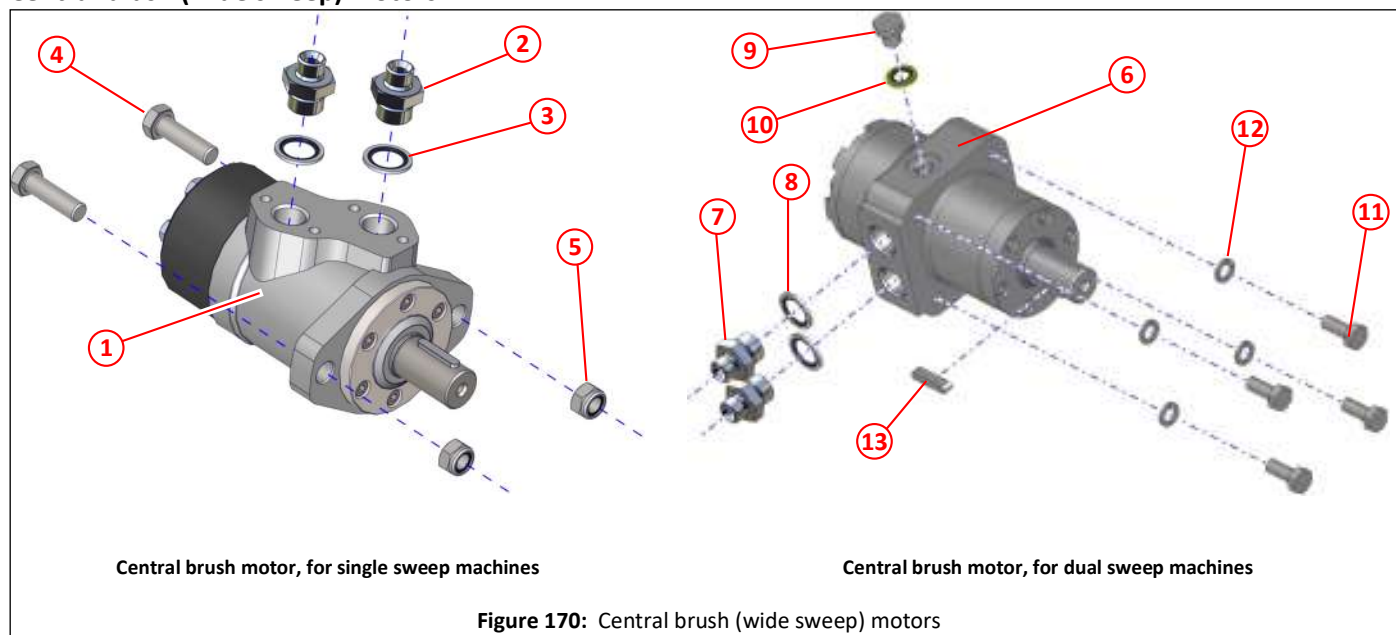
Item	Part No	Qty	Description	
①	044381	1	Manifold	
②	044382	2	Solenoid valve - SV10-40-0-N-00	
③	041224	2	Coil 12v / 20.5 watts	
④	044411	1	Mounting bracket	
⑤	011010	2	Set screw M8 x 20	
⑥	011093	2	Spring washer M8	
⑦	011092	2	Plain washer M8	
⑧	044426	1	Steel pipe RH auto blanking, manifold port AB1	
⑨	044427	1	Steel pipe RH auto blanking, manifold port AB2	
⑩	044428	1	Steel pipe LH auto blanking, manifold port AB3	
⑪	044429	1	Steel pipe LH auto blanking, manifold port AB4	
⑫	020902	4	Adapter 6mm x $\frac{1}{4}$ " BSP	
⑬	011152	6	Dowty seal $\frac{1}{4}$ " BSP	
⑭	011158	2	Adapter $\frac{1}{4}$ " BSP	
⑮	011171	1	Swivel elbow M/F $\frac{1}{4}$ " BSP	
⑯	001336	1	Hose $\frac{1}{4}$ " BSP x 675, straight and 90° ends, block supply	
⑰	011169	1	Swivel elbow F/F $\frac{1}{4}$ " BSP	
⑱	010922	1	Adapter hose tail $\frac{1}{4}$ " BSP x $\frac{3}{8}$ " hose	
⑲	010516	1	Clamp, worm drive, No. MOO [11-16mm]	
⑳	010958	As req	Hose $\frac{3}{8}$ " BSP, return	

Side and front brush motor



Item	Part No	Qty	Description	
①	010006	1	Motor 3598 (OMP 315)	31,48
②	011167	2	Adapter $\frac{1}{2}$ " BSP x $\frac{3}{8}$ " BSP	
③	011154	2	Dowty seal $\frac{1}{2}$ " BSP	
④	011054	2	Set screw M12 x 45	
⑤	011077	2	M12 Nyloc nut	

Central brush (wide sweep) motors



Item	Part No	Qty	Description	
①	010749	1	Motor 3597 (OMP 200)	51,71
②	011167	2	Adapter $\frac{1}{2}$ " BSP x $\frac{3}{8}$ " BSP	
③	011154	2	Dowty seal $\frac{1}{2}$ " BSP	
④	011069	2	Bolt M12 x 40	
⑤	011077	2	M12 Nyloc nut	
⑥	023503	1	Motor (OMPW 200)	65,71
⑦	011167	2	Adapter $\frac{1}{2}$ " BSP x $\frac{3}{8}$ " BSP	
⑧	011154	2	Dowty seal $\frac{1}{2}$ " BSP	
⑨	011241	1	Plug $\frac{1}{4}$ " BSP	
⑩	011152	1	Dowty seal $\frac{1}{4}$ " BSP	
⑪	011031	4	Set screw M10 x 25	
⑫	011095	4	Spring Washer M10	
⑬	011515	1	Key, rectangle 8 x 7 x 40 round end	

High pressure water pump motor

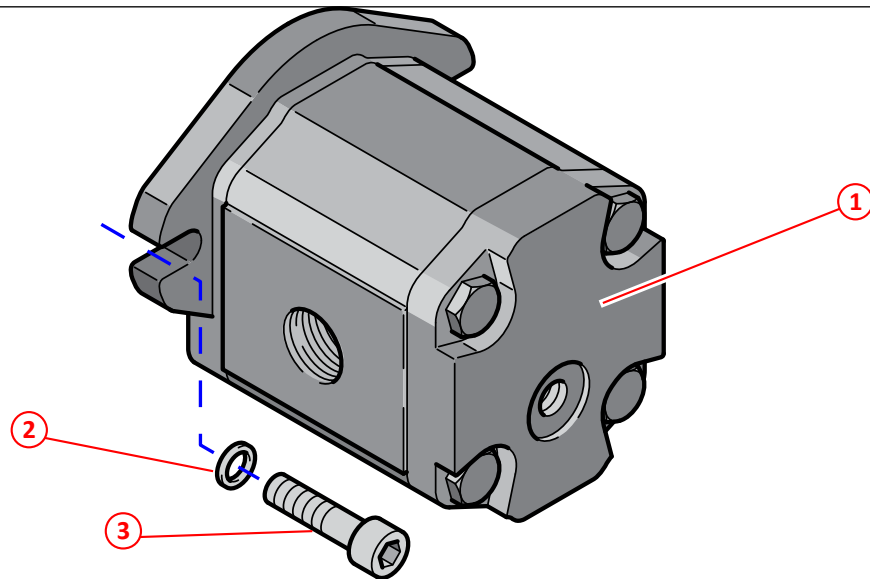


Figure 171: High pressure water pump motor

Item	Part No	Qty	Description	
①	045812	1	Motor, 4769	157,159
②	011095	2	Spring washer M10	
③	011408	2	Socket cap head screw M10 x 30	

Side brush raise and lower hydraulic ram

Front brush raise and lower hydraulic ram

Suction nozzle lift hydraulic ram

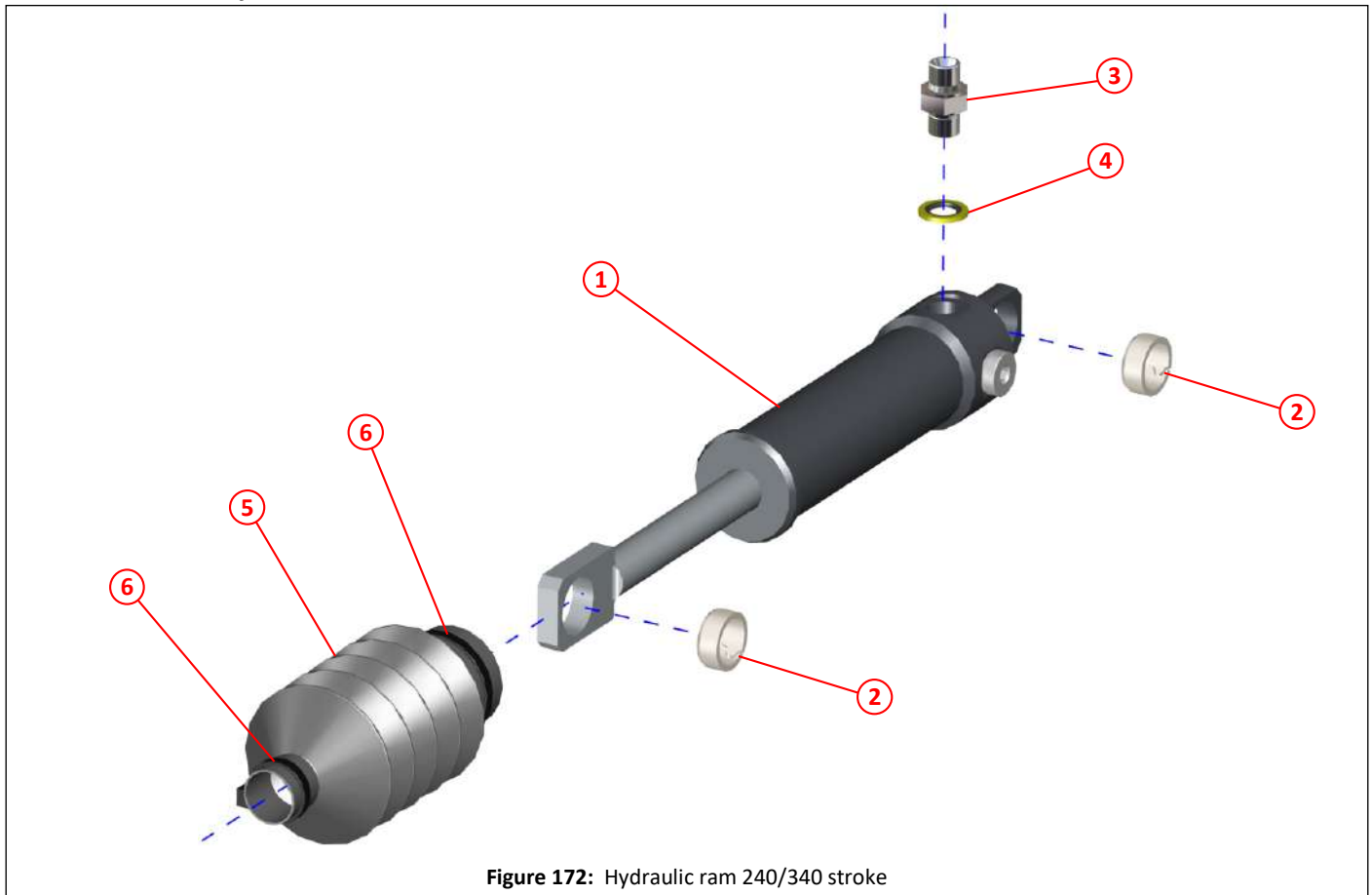


Figure 172: Hydraulic ram 240/340 stroke

Item	Part No	Qty	Description	
①	010009	1	Ram 240/340 stroke	
②	024682	2	Bush 25 x 20 x 10	
③	027188	1	Adapter $\frac{1}{4}$ " BSP with restrictor 0.6mm, Green	
④	011152	1	Dowty seal $\frac{1}{4}$ " BSP	
⑤	014473	1	Bellows	
⑥	005018	2	Cable tie	
	027144	1	Complete hydraulic ram assembly with all of above items	25,28,33,37,41,45

Side brush swing in and out hydraulic ram

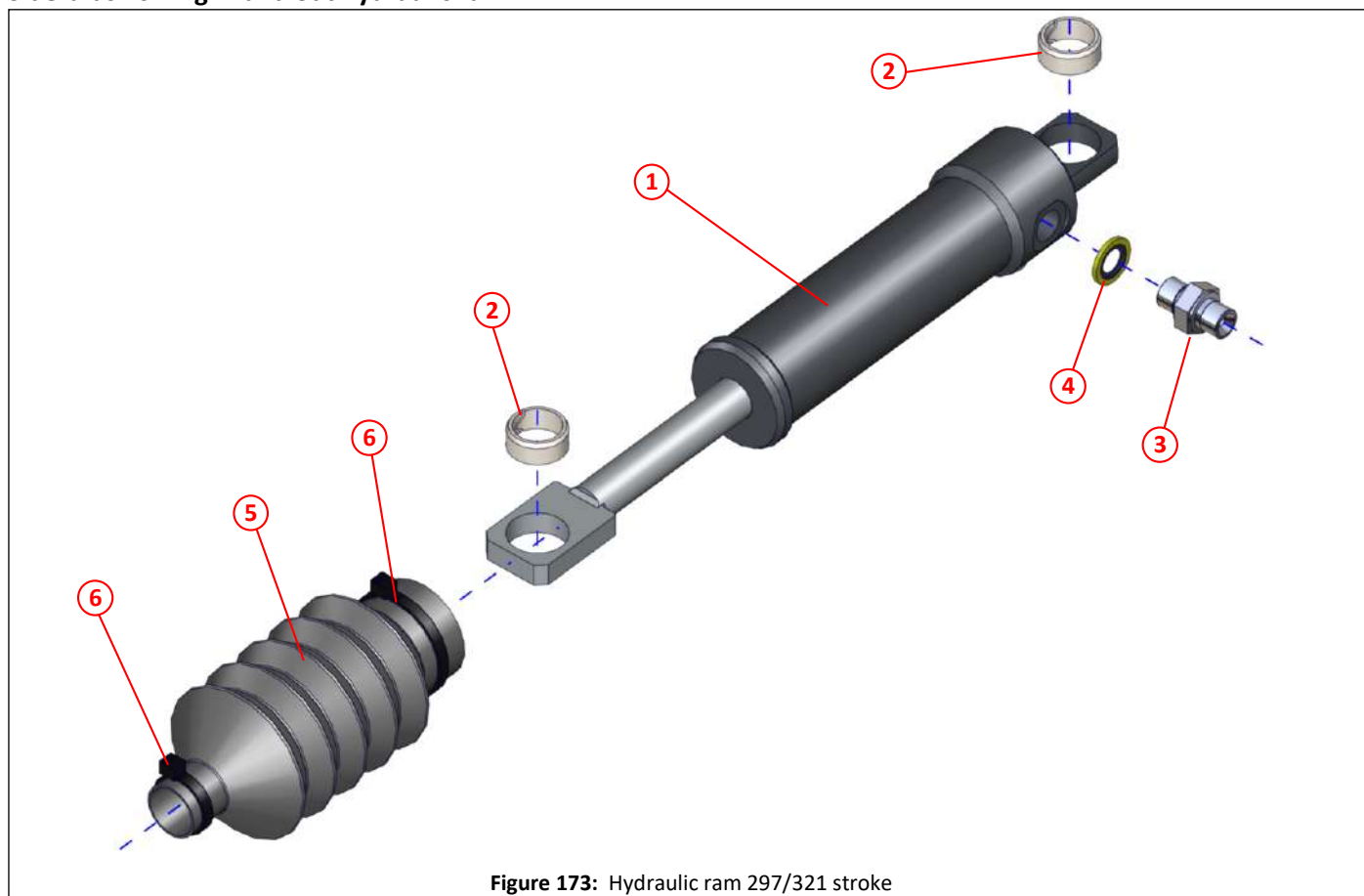


Figure 173: Hydraulic ram 297/321 stroke

Item	Part No	Qty	Description	
①	031111	1	Ram 297/321 stroke	
②	024682	2	Bush 25 x 20 x 10	
③	027188	1	Adapter $\frac{1}{4}$ " BSP with restrictor 0.6mm, Green	
④	011152	1	Dowty seal $\frac{1}{4}$ " BSP	
⑤	014473	1	Bellows	
⑥	005018	2	Cable tie	
	027118	1	Complete hydraulic ram assembly with all of above items	

Front brush swing in and out hydraulic ram

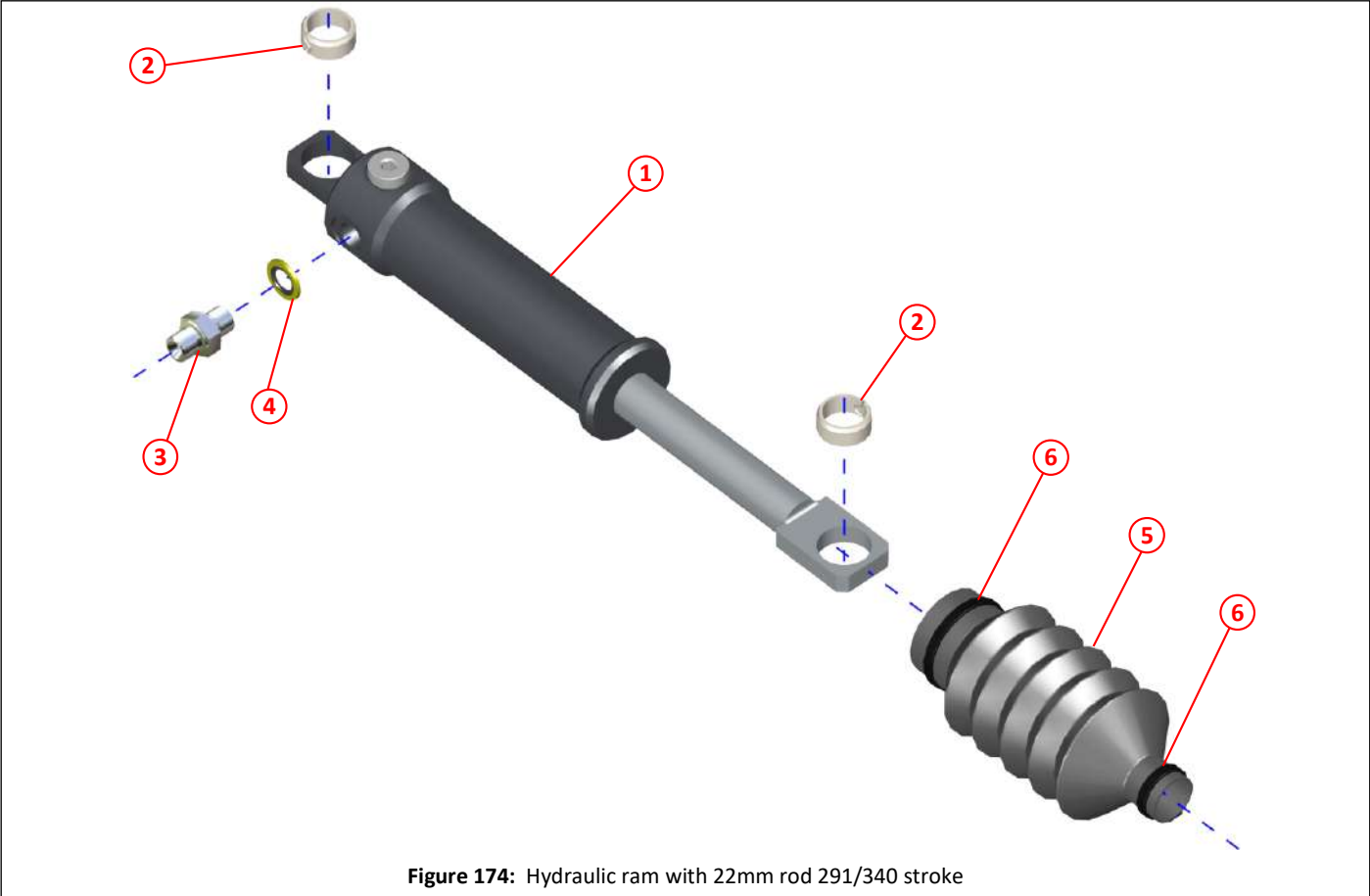


Figure 174: Hydraulic ram with 22mm rod 291/340 stroke

Item	Part No	Qty	Description	
①	039979	1	Ram with 22mm rod, 291/340 stroke	
②	024682	2	Bush 25 x 20 x 10	
③	027188	1	Adapter ¼" BSP with restrictor 0.6mm, Green	
④	011152	1	Dowty seal ¼" BSP	
⑤	014473	1	Bellows	
⑥	005018	2	Cable tie	
	040350	1	Complete hydraulic ram assembly with all of above items	

Central brush (wide sweep) raise and lower hydraulic ram

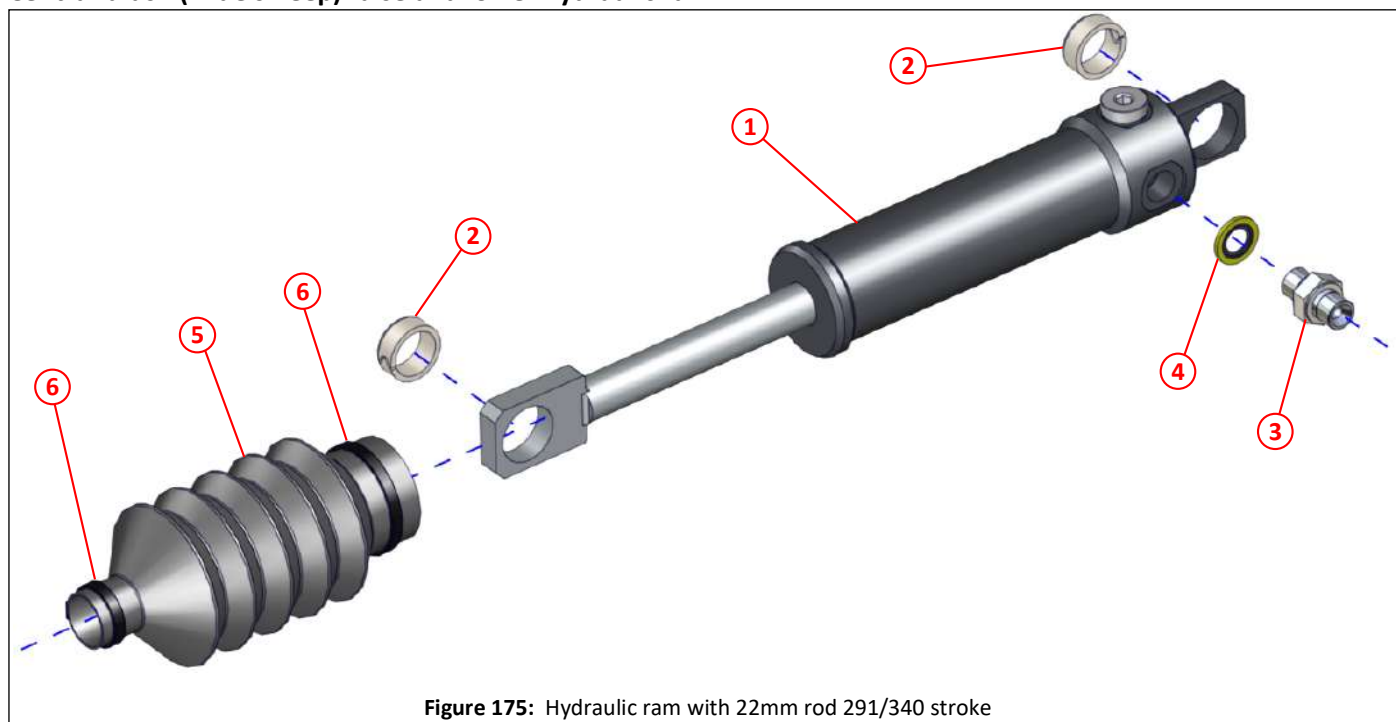
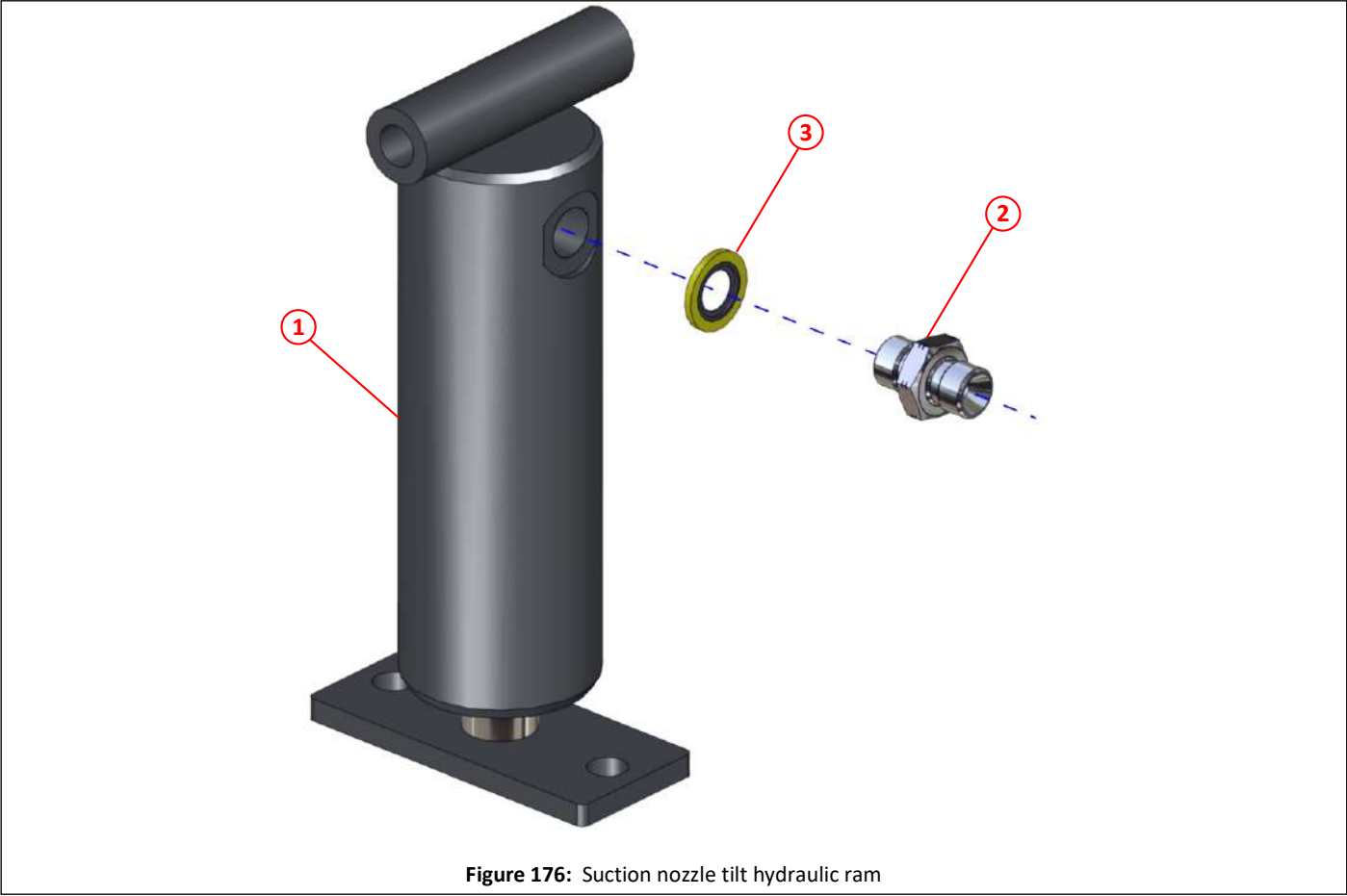


Figure 175: Hydraulic ram with 22mm rod 291/340 stroke

Item	Part No	Qty	Description	
①	010009	1	Ram 240/340 stroke	
②	024682	2	Bush 25 x 20 x 10	
③	027188	1	Adapter $\frac{1}{4}$ " BSP with restrictor 0.6mm, Green	
④	011152	1	Dowty seal $\frac{1}{4}$ " BSP	
⑤	014473	1	Bellows	
⑥	005018	2	Cable tie	
	027115	1	Complete hydraulic ram assembly with all of above items	

Suction nozzle tilt hydraulic ram



Item	Part No	Qty	Description	
①	027113	1	Suction nozzle tilt ram, complete with items ② and ③	
②	012539	1	Adapter $\frac{1}{4}$ " BSP x $\frac{1}{4}$ " BSP with restrictor $\frac{1}{32}$ ", No 5 White	
③	011152	1	Dowty seal $\frac{1}{4}$ " BSP	

Hopper lift hydraulic ram



Figure 177: Hopper lift hydraulic ram

Item	Part No	Qty	Description	
①	036382	1	Hopper lift ram	
②	012539	2	Adapter $\frac{1}{4}$ " BSP x $\frac{1}{4}$ " BSP with restrictor $\frac{1}{32}$ ", No 5 White	
③	011152	2	Dowty seal $\frac{1}{4}$ " BSP	
④	011171	2	Swivel elbow M/F $\frac{1}{4}$ " BSP	

Auto blanking hydraulic ram

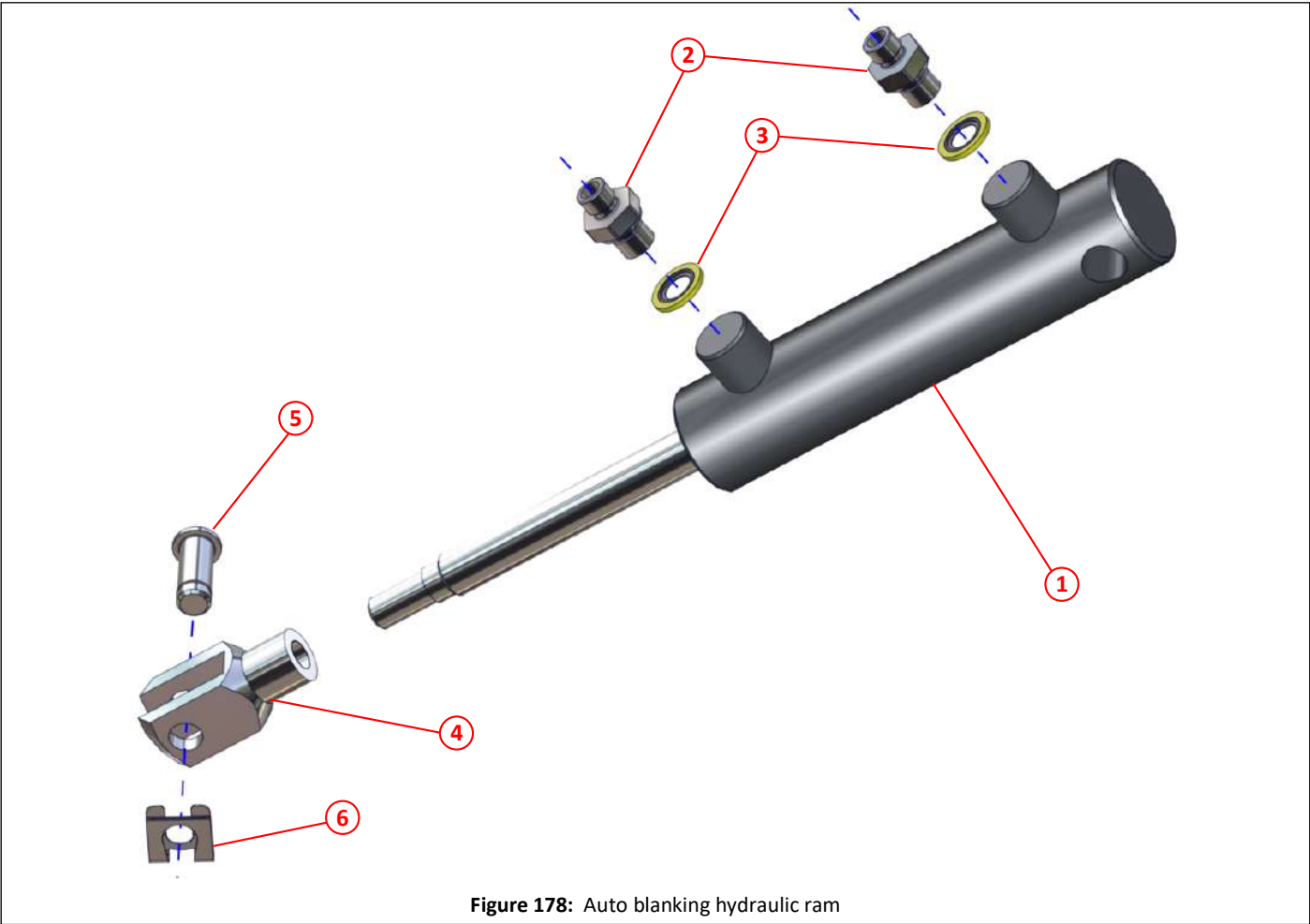


Figure 178: Auto blanking hydraulic ram

Item	Part No	Qty	Description	
①	022350	1	Auto blanking hydraulic ram	92,94,96
②	020902	2	Adapter 6mm x 1/4" BSP	
③	011152	2	Dowty seal 1/4" BSP	
④	014469	1	Clevis	
⑤	023270	1	Clevis pin	
⑥	023269	1	Safety fastener	

Auto blanking hopper pipe work, top

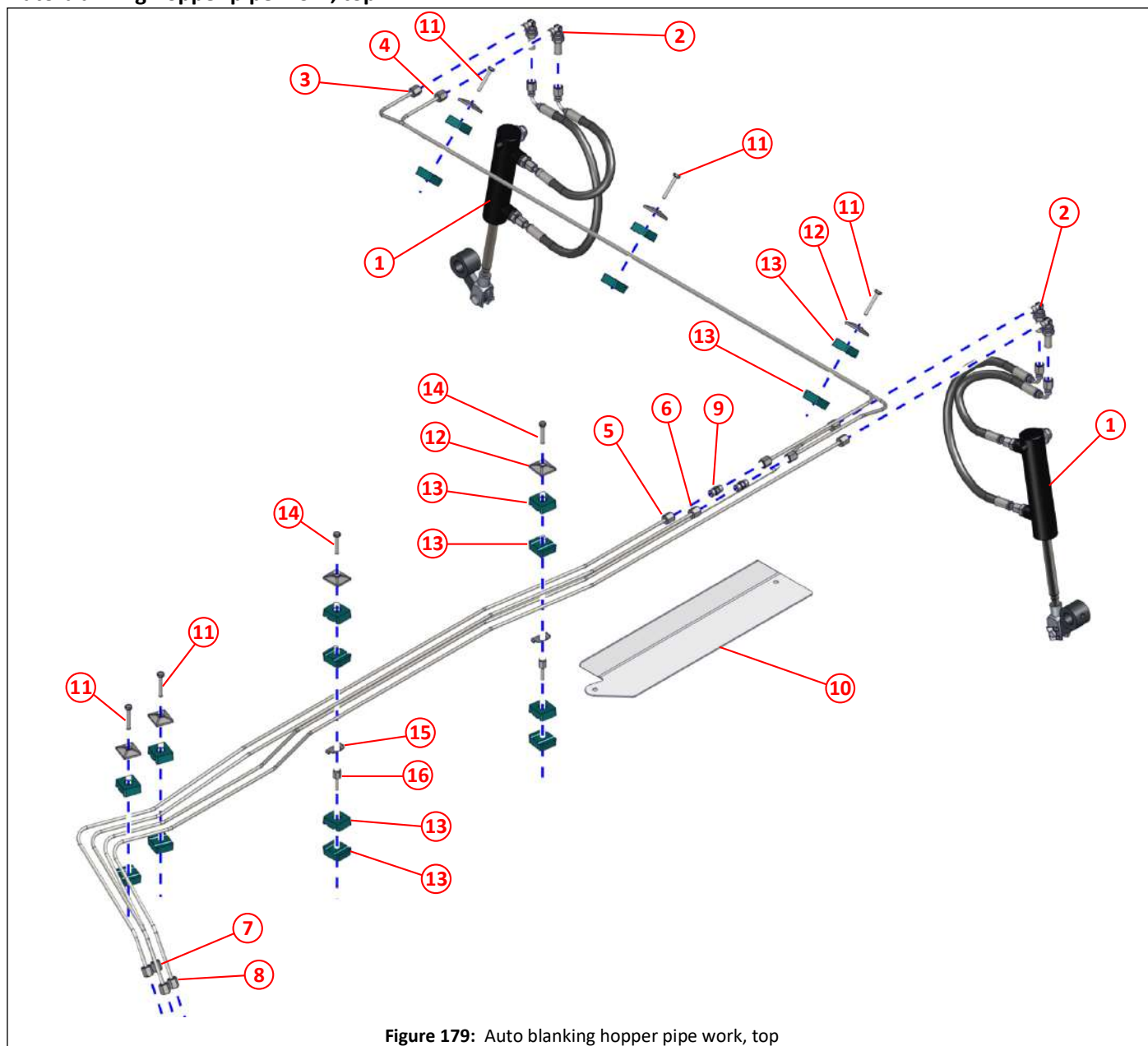


Figure 179: Auto blanking hopper pipe work, top

Item	Part No	Qty	Description	
①		2	Auto blank rams	92,94,96,212
②	002225	4	Elbow, bulkhead 6mm	
③	042574	1	Pipe, steel, auto blanking left hand, supply, part 2	
④	042576	1	Pipe, steel, auto blanking left hand, return, part 2	
⑤	042573	1	Pipe, steel, auto blanking left hand, supply, part 1	
⑥	042575	1	Pipe, steel, auto blanking left hand, return, part 1	
⑦	042571	1	Pipe, steel, auto blanking right hand, supply	
⑧	042572	1	Pipe, steel, auto blanking right hand, return1	
⑨	002052	2	Union, tube/tube 6mm x 6mm	
⑩	042563	1	Pipe guard	
⑪	000021	5	Set screw M6 x 40	
⑫	027996	7	Clamp, pipe, top plate	
⑬	027983	18	Clamp block, pipe, 6mm x 6mm, double	
⑭	011068	2	Set screw M6 x 35	
⑮	000472	2	Locking plate, SIG1	
⑯	000468	2	Bolt, stacking, 25mm (AF2)	

Auto blanking hopper pipe work, rear

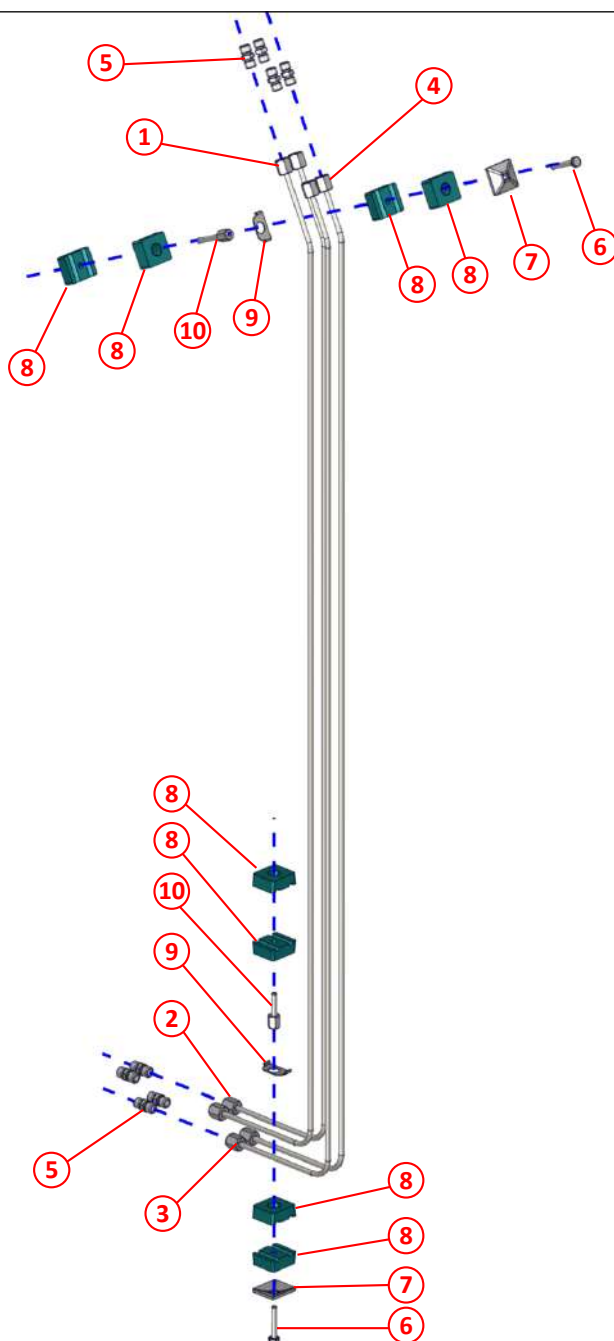


Figure 180: Auto blanking hopper pipe work, rear

Item	Part No	Qty	Description	
①	042577	1	Pipe, steel, auto blanking left hand, supply	
②	042577	1	Pipe, steel, auto blanking right hand, supply	
③	042578	1	Pipe, steel, auto blanking left hand, return	
④	042578	1	Pipe, steel, auto blanking right hand, return	
⑤	002052	8	Union, tube/tube 6mm x 6mm	
⑥	011068	2	Set screw M6 x 35	
⑦	027996	2	Clamp, pipe, top plate	
⑧	027983	8	Clamp block, pipe, 6mm x 6mm, double	
⑨	000472	2	Locking plate, SIG1	
⑩	000468	2	Bolt, stacking, 25mm (AF2)	

Hoses

Brush gear

Part No	Usage	Description
Front left brush		
001105	Lift	Hose $\frac{1}{4}$ " BSP x 400, straight and 90° ends
001121	Swing	Hose $\frac{1}{4}$ " BSP x 270, straight and 90° ends
001293	Motor feed	Hose $\frac{3}{8}$ " BSP x 820, straight and 90° ends
001293	Motor return	Hose $\frac{3}{8}$ " BSP x 820, straight and 90° ends
Front right brush		
001105	Lift	Hose $\frac{1}{4}$ " BSP x 400, straight and 90° ends
001121	Swing	Hose $\frac{1}{4}$ " BSP x 270, straight and 90° ends
001293	Motor feed	Hose $\frac{3}{8}$ " BSP x 820, straight and 90° ends
001293	Motor return	Hose $\frac{3}{8}$ " BSP x 820, straight and 90° ends
Left side brush		
001105	Lift	Hose $\frac{1}{4}$ " BSP x 400, straight and 90° ends
001243	Swing	Hose $\frac{1}{4}$ " BSP x 200, straight and 90° ends
001290	Motor feed	Hose $\frac{3}{8}$ " BSP x 880, 90° ends
001290	Motor return	Hose $\frac{3}{8}$ " BSP x 880, 90° ends
Right side brush		
001105	Lift	Hose $\frac{1}{4}$ " BSP x 400, straight and 90° ends
001243	Swing	Hose $\frac{1}{4}$ " BSP x 200, straight and 90° ends
001290	Motor feed	Hose $\frac{3}{8}$ " BSP x 880, 90° ends
001290	Motor return	Hose $\frac{3}{8}$ " BSP x 880, 90° ends
Central brush (wide sweep)		
Part No	Usage	Description
Left hand dual sweep		
001105	Lift	Hose $\frac{1}{4}$ " BSP x 400, straight and 90° ends
001255	Motor feed	Hose $\frac{1}{4}$ " BSP x 265, straight and 90° ends
001294	Motor return	Hose $\frac{3}{8}$ " BSP x 500, straight and 90° ends
Right hand dual sweep		
001105	Lift	Hose $\frac{1}{4}$ " BSP x 400, straight and 90° ends
001088	Motor feed	Hose $\frac{3}{8}$ " BSP x 580, straight and 90° ends
001228	Motor return	Hose $\frac{3}{8}$ " BSP x 620, straight and 90° ends
Left hand single sweep		
001105	Lift	Hose $\frac{1}{4}$ " BSP x 400, straight and 90° ends
001088	Motor feed	Hose $\frac{3}{8}$ " BSP x 580, straight and 90° ends
001227	Motor return	Hose $\frac{3}{8}$ " BSP x 680, straight and 90° ends
Right hand single sweep		
001105	Lift	Hose $\frac{1}{4}$ " BSP x 400, straight and 90° ends
001088	Motor feed	Hose $\frac{3}{8}$ " BSP x 580, straight and 90° ends
001227	Motor return	Hose $\frac{3}{8}$ " BSP x 680, straight and 90° ends

Suction nozzles

Part No	Usage	Description
Left hand suction nozzle		
001291	Lift	Hose $\frac{1}{4}$ " BSP x 265, straight and 90° ends
001286	Tilt	Hose $\frac{1}{4}$ " BSP x 500, straight and 90° ends)
Right hand suction nozzle		
001291	Lift	Hose $\frac{1}{4}$ " BSP x 265, straight and 90° ends
001286	Tilt	Hose $\frac{1}{4}$ " BSP x 500, straight and 90° ends

Central brush (wide sweep)

Part No	Usage	Description
Left hand dual sweep		
001105	Lift	Hose $\frac{1}{4}$ " BSP x 400, straight and 90° ends
001255	Motor feed	Hose $\frac{1}{4}$ " BSP x 265, straight and 90° ends
001294	Motor return	Hose $\frac{3}{8}$ " BSP x 500, straight and 90° ends
Right hand dual sweep		
001105	Lift	Hose $\frac{1}{4}$ " BSP x 400, straight and 90° ends
001088	Motor feed	Hose $\frac{3}{8}$ " BSP x 580, straight and 90° ends
001228	Motor return	Hose $\frac{3}{8}$ " BSP x 620, straight and 90° ends
Left hand single sweep		
001105	Lift	Hose $\frac{1}{4}$ " BSP x 400, straight and 90° ends
001088	Motor feed	Hose $\frac{3}{8}$ " BSP x 580, straight and 90° ends
001227	Motor return	Hose $\frac{3}{8}$ " BSP x 680, straight and 90° ends
Right hand single sweep		
001105	Lift	Hose $\frac{1}{4}$ " BSP x 400, straight and 90° ends
001088	Motor feed	Hose $\frac{3}{8}$ " BSP x 580, straight and 90° ends
001227	Motor return	Hose $\frac{3}{8}$ " BSP x 680, straight and 90° ends

Blocks and other ancillaries

Part No	Usage	Description
Main block supply		
001255	Pressure Relief Valve to steel	Hose $\frac{1}{4}$ " BSP x 265, straight and 90° ends
001288	Steel to block	Hose $\frac{3}{8}$ " BSP x 180, 90° ends
Main block return		
001320	Block to brush block T	Hose $\frac{5}{8}$ " x 400, $\frac{3}{4}$ " BSP 45° ends
001100	Port C to steel	Hose $\frac{1}{4}$ " BSP x 460, straight and 90° ends
Cooling fan		
001335	Pressure Relief Valve to fan	Hose $\frac{3}{8}$ " BSP x 2000, straight and 90° ends
	Return (non sweep wash)	
	Return (sweep wash)	

Part No	Usage	Description
Hopper fan motor supply		
001295	Pump to steel	Hose $\frac{5}{8}$ " BSP x 520, $\frac{3}{4}$ " BSP straight ends
001317	Steel to hopper	Hose $\frac{5}{8}$ " BSP x 630, $\frac{3}{4}$ " BSP straight and 90° ends
Hopper fan motor return		
001318	Hopper to steel	Hose $\frac{5}{8}$ " BSP x 620, $\frac{3}{4}$ " BSP straight and 90° ends
001325	Steel to gantry	Hose $\frac{5}{8}$ " BSP x 665, $\frac{3}{4}$ " BSP straight and 45° ends
Hopper ram		
010990	Lift	Hose $\frac{1}{4}$ " BSP x 600, straight ends
010990	Lower	Hose $\frac{1}{4}$ " BSP x 600, straight ends
001286 Fan block to DFR		
001286	Fan block to DFR	Hose $\frac{1}{4}$ " BSP x 500, straight and 90° ends
High pressure pump (non sweep wash)		
001007	Steel from block to pump steel	Hose $\frac{3}{8}$ " BSP x 850, straight ends
Auto blanking		
001336	Block supply	Hose $\frac{1}{4}$ " BSP x 675, straight and 90° ends
Double pump to pressure relief valve block		
001334	Pump one to Port P2	Hose $\frac{1}{2}$ " BSP x 520, straight and 90° ends
001334	Pump two to port P1	Hose $\frac{1}{2}$ " BSP x 520, straight and 90° ends
Sweep wash		
001227	Cooling fan motor to valve	Hose $\frac{3}{8}$ " BSP x 680, straight and 90° ends
001314	Valve to pump steel pipe	Hose $\frac{3}{8}$ " BSP x 680, straight ends
Transmission filter left hand drive		
001315	From pump	Hose $\frac{1}{2}$ " BSP x 970, straight and 90° ends
001316	To pump	Hose $\frac{1}{2}$ " BSP x 1070, straight and 90° ends
Transmission filter right hand drive		
001315	From pump	Hose $\frac{1}{2}$ " BSP x 970, straight and 90° ends
001304	To pump	Hose $\frac{1}{2}$ " BSP x 1200, straight and 90° ends
Power steering		
002129	Block supply	Hose $\frac{1}{2}$ " BSP x 750, straight and 90° ends
001292	Steel pipe to steering box LH	Hose $\frac{3}{8}$ " BSP x 860, straight and 90° ends
001226	To manifold LH	Hose $\frac{3}{8}$ " BSP x 530, straight and 90° ends
001292	Steel pipe to steering box RH	Hose $\frac{3}{8}$ " BSP x 860, straight and 90° ends
001226	To manifold RH	Hose $\frac{3}{8}$ " BSP x 530, straight and 90° ends
Air conditioning		
001319	Supply	Hose $\frac{3}{8}$ " x 290, $\frac{3}{8}$ " BSP straight and $\frac{1}{2}$ " BSP 90° compact end
001219	To manifold	Hose $\frac{5}{8}$ " x 861, $\frac{3}{4}$ " BSP straight and 45° ends

Part No	Usage	Description
Brush block		
001171	Supply from main block	Hose $\frac{3}{8}$ " BSP x 250, straight ends
001219	Brush block to cooler	Hose $\frac{5}{8}$ " x 861, $\frac{3}{4}$ " BSP straight and 45° ends

Hand pump		
001088	Main block 'E' to pump T	Hose $\frac{3}{8}$ " BSP x 580, straight and 90° ends
001326	Pump P to main block 'HP'	Hose $\frac{3}{8}$ " BSP x 3650, straight ends

Gantry

Part No	Description	Usage
001296	Gantry fan return hose	Hose $\frac{5}{8}$ " BSP x 190, straight and 90° ends

Hopper

Part No	Description	Usage
Fan motor		
013005	Supply	Hose $\frac{5}{8}$ " x 680, $\frac{3}{4}$ " BSP straight and 90° ends
001297	Return	Hose $\frac{5}{8}$ " BSP x 770, straight ends

Auto blanking		
001331	Auto blanking open (locker)	Hose $\frac{1}{4}$ " BSP x 469, straight and 90° ends
001332	Auto blanking close (locker)	Hose $\frac{1}{4}$ " BSP x 424, straight and 90° ends
001330	Auto blanking (to chassis RH)	Hose $\frac{1}{4}$ " BSP x 639, straight and 90° ends
001333	Auto blanking (to chassis LH)	Hose $\frac{1}{4}$ " BSP x 589, straight and 90° ends

High pressure water pump

Part No	Description	Usage
001088	HP pump to hose reel	Hose $\frac{3}{8}$ " BSP x 580, straight and 90° ends
001326	HP pump to HP spray bar	Hose $\frac{3}{8}$ " BSP x 3650, straight ends

Low pressure water (blue hose)

Part No	Description
035733	6mm Nylon, single sweep, 6m total length
035733	6mm Nylon, dual sweep, 8m total length
041031	10mm Nylon, single sweep, 4m total length
041031	10mm Nylon, dual sweep, 7m total length

Feeds and returns

Part No	Description
010958	$\frac{3}{8}$ " hose, 5m total length
011000	$\frac{5}{8}$ " hose, 11m total length
010959	1" hose, 4m total length
001013	15mm hose, 4m total length

Steel pipes

Key:

1 = Left hand single sweep

2 = Left hand single sweep no front brushes

3 = Dual sweep left hand drive

4 = Dual sweep right hand drive

5 = Right hand single sweep

6 = Right hand single sweep no front brush

= Fitted

= Not fitted

= Optional

Chassis

Part No	Usage/Description	1	2	3	4	5	6
042727	Steel pipe fan return (part 1)						
042729	Steel pipe fan supply						
042731	Steel pipe hopper lift						
042732	Steel pipe hopper lower						
042733	Steel pipe hydraulic door port 1 (part 1)						
042734	Steel pipe hydraulic door port 1 (part 2)						
042735	Steel pipe hydraulic door port 3 (part 1)						
042736	Steel pipe hydraulic door port 3 (part 2)						
042737	Steel pipe right hand suction nozzle tilt open						
042738	Steel pipe left hand suction nozzle lift						
042741	Steel pipe left hand front brush feed (part 1)						
045991	Steel pipe left hand front brush feed (part 1) (HEMA)						
042743	Steel pipe left hand front brush lift (part 1)						
045999	Steel pipe left hand front brush lift (part 1) (HEMA)						
042744	Steel pipe left hand front brush lift (part 2)						
042745	Steel pipe left hand front brush return (part 1)						
045993	Steel pipe left hand front brush return (part 1) (HEMA)						
042747	Steel pipe left hand front brush swing (part 1)						
045998	Steel pipe left hand front brush swing (part 1) (HEMA)						
042748	Steel pipe left hand front brush swing (part 2)						
042749	Steel pipe left hand side brush feed						
042750	Steel pipe left hand side brush return						
042751	Steel pipe left hand side brush lift and swing						
042752	Steel pipe main block feed						
042753	Steel pipe port C to fan pump						
042754	Steel pipe rear elbow						
042756	Steel pipe left hand auto blank port 3 (part 2)						
042758	Steel pipe left hand auto blank port 1 (part 2)						
042759	Steel pipe right hand front brush feed (part 1)						
045997	Steel pipe right hand front brush feed (part 1) (HEMA)						
042761	Steel pipe right hand front brush lift (part 1)						
046010	Steel pipe right hand front brush lift (part 1) (HEMA)						
042762	Steel pipe right hand front brush lift (part 2)						
042763	Steel pipe right hand front brush return (part 1)						
045995	Steel pipe right hand front brush return (part 1) (HEMA)						

Part No	Usage/Description	1	2	3	4	5	6
042765	Steel pipe right hand front brush swing (part 1)						
046020	Steel pipe right hand front brush swing (part 1) (HEMA)						
042766	Steel pipe right hand front brush swing (part 2)						
046033	Steel pipe right hand front brush swing (part 2) (HEMA)						
042767	Steel pipe left hand wide sweep feed						
042768	Steel pipe left hand/right hand dual sweep wide sweep lift						
042769	Steel pipe left hand wide sweep return						
042670	Steel pipe left hand wide sweep feed						
042771	Steel pipe right hand/left hand dual sweep wide sweep lift						
042772	Steel pipe left hand dual sweep wide sweep return						
042773	Steel pipe right hand side brush lift and swing						
042774	Steel pipe fan return (part 2 Goes on gantry)						
042784	Steel pipe right hand side brush feed						
042785	Steel pipe right hand side brush return						
042787	Steel pipe suction nozzle tilt open (part 1)						
042788	Steel pipe left hand suction nozzle tilt open						
043085	Steel pipe HP pump supply street wash						
043296	Steel pipe air conditioning supply						
043297	Steel pipe left hand, power steering supply						
043326	Steel pipe right hand, wide sweep feed						
043327	Steel pipe right hand, wide sweep return						
043328	Steel pipe right hand dual sweep, wide sweep feed						
043329	Steel pipe right hand dual sweep, wide sweep return						
044426	Steel pipe right hand auto blanking port AB1						
044427	Steel pipe right hand auto blanking port AB2						
044428	Steel pipe right hand auto blanking port AB3 (part 1)						
044429	Steel pipe right hand auto blanking port AB4 (part 1)						
044679	Steel pipe left hand front brush feed (part 2)						
045992	Steel pipe left hand front brush feed (part 2) (HEMA)						
044680	Steel pipe left hand front brush return (part 2)						
045994	Steel pipe left hand front brush return (part 2) (HEMA)						
044681	Steel pipe right hand front brush feed (part2)						
044682	Steel pipe right hand front brush return (part 2)						
045996	Steel pipe right hand front brush return (part 2)						
044873	Steel pipe HP pump supply (non sweep wash)						

Hopper

Part No	Usage/Description	1	2	3	4	5	6
042571	Steel pipe auto blanking right hand open						
042572	Steel pipe auto blanking right hand close						
042573	Steel pipe auto blanking left hand open (part 1)						
042574	Steel pipe auto blanking left hand open (part 2)						
042575	Steel pipe auto blanking left hand close (part 1)						
042576	Steel pipe auto blanking left hand close (part 2)						
042577	Steel pipe hopper 6mm supply						
042578	Steel pipe hopper 6mm return						
042579	Steel pipe motor case drain						
042580	Steel pipe hopper supply / return						

Fuel system

Part No	Usage/Description	1	2	3	4	5	6
042724	Steel pipe tank to filter 1						
042726	Steel pipe fuel return						

Pipe clamps

Part No	Description
027980	Clamp block, single, 6mm
027981	Clamp block, single, 12mm
027982	Clamp block, single, 25mm
027983	Clamp block, double, 6mm x 6mm
027984	Clamp block, double, 12mm x 12mm
027985	Clamp block, double, 6mm x 12mm
027986	Clamp block, double, 12mm x 14mm
027987	Clamp block, double, 17.2mm x 17.2mm
027988	Clamp block, double, 18mm x 18mm
027989	Top plate 2-hole, small
027990	Top plate 2-hole, large
027991	Bottom plate 2-hole, small
027992	Bottom plate 2-hole, large
027993	Bottom plate 1-hole, small
027994	Bottom plate 1-hole, medium
027995	Bottom plate 2-hole, large
027996	Top plate 1-hole, small
027997	Top plate 1-hole, medium
027998	Top plate 1-hole, large

Electrical

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Electrical components in the cab

Main control panel

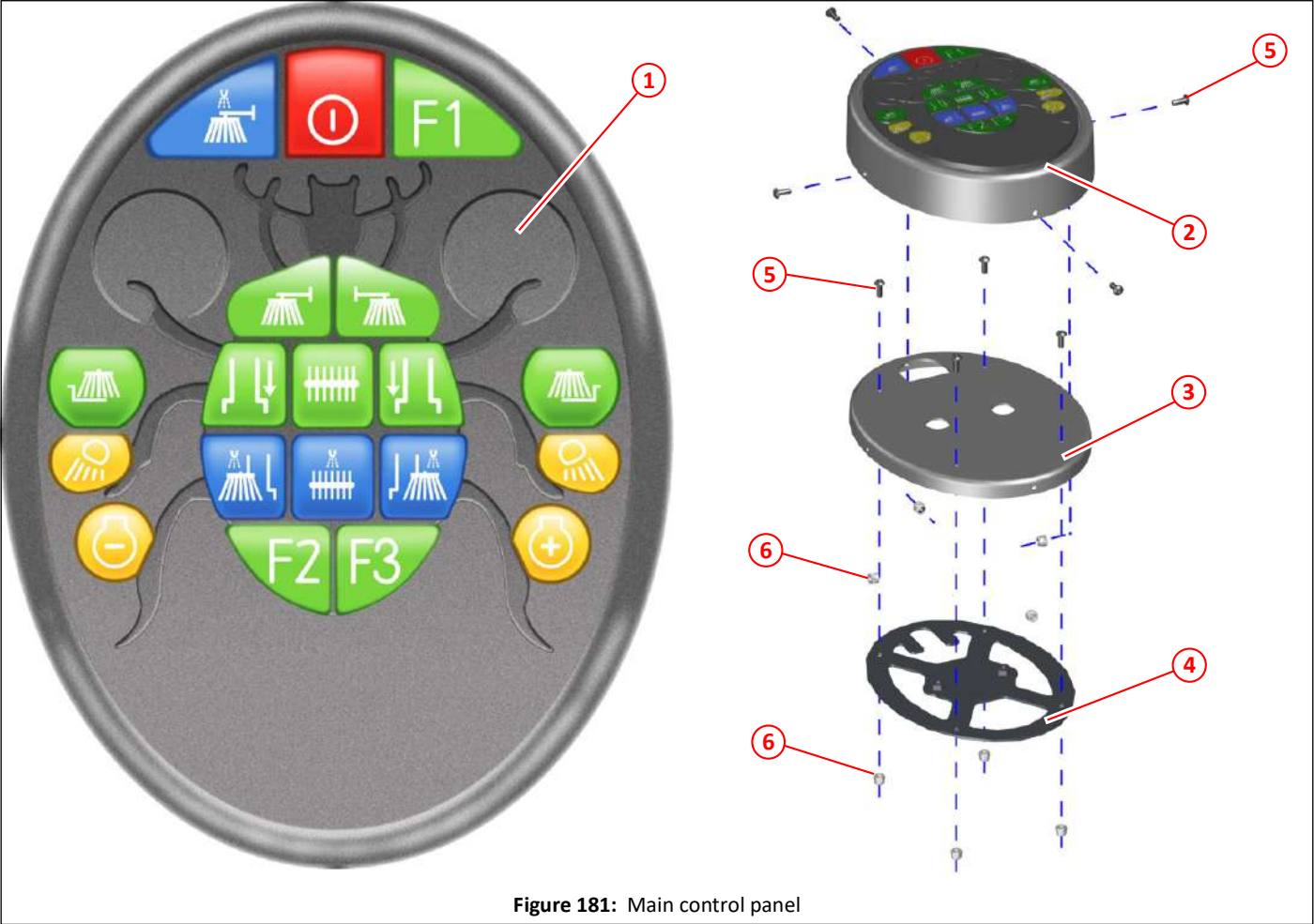


Figure 181: Main control panel

Item	Part No	Qty	Description	
①	036579	1	Main control panel, complete, items ②, ③, ④, ⑤ and ⑥	276
②	037575	1	Main control panel fascia and keypad	
③	037053	1	Main control panel backplate	
④	037055	1	Main control panel fixing plate	
⑤	000304	8	Socket button head screw M4 x 10	
⑥	000134	8	M4 Nyloc nut	
NI	036912	1	Wiring loom, main control panel keypad	239

Auxiliary control panel



Item	Part No	Qty	Description	
①	037607	1	Auxiliary control panel, right hand, complete	276
①	037606	1	Auxiliary control panel, left hand, complete	276
②	037608	1	Auxiliary control panel (door pod), fascia and keypad	
③	037057	1	Support plate, auxiliary control panel (door pod)	
④	037058	1	Backplate, auxiliary control panel (door pod), universal	
⑤	046259	1	Blind grommet	
⑥	036873	1	Ergo joystick	
⑦	000380	4	Socket button head M5 x 10, black	
⑧	037064	1	Lock washer, auxiliary control panel (door pod)	
⑨	011031	1	Set screw M10 x 25	
⑩	039545	1	Label, ergo joystick	
NI	036913	1	Loom, auxiliary control panel (door pod)	239
NI	036915	1	Loom, power/CAN, auxiliary control panel (door pod)	239

Operator display screen



Figure 183: M25H Operator display screen

Item	Part No	Qty	Description	
①	042366	1	Operator display screen, CR1084, programmed	
NI	043235	1	Wiring loom, operator display screen, CR1084	

CR2012 node

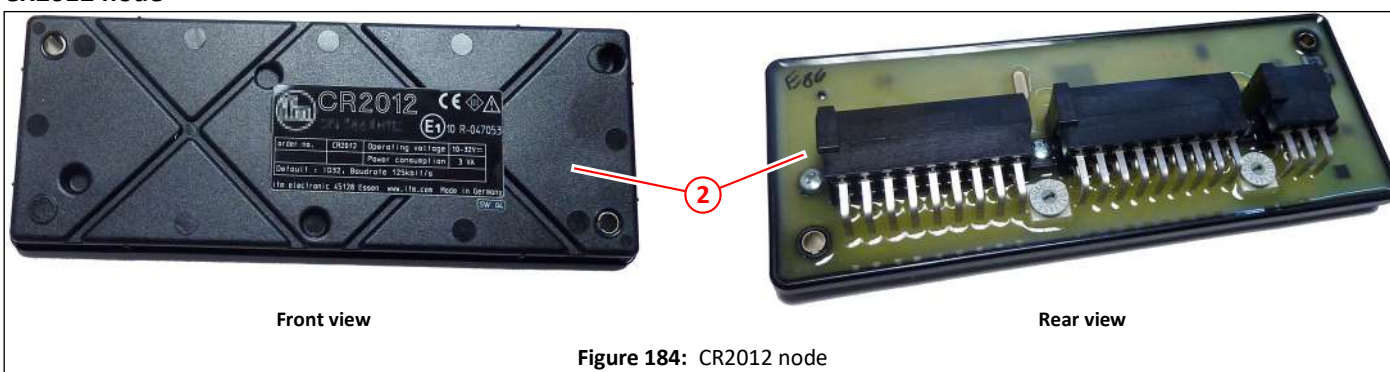


Figure 184: CR2012 node

Item	Part No	Qty	Description	
②	036799	3	Node, cabinet module, CR2012, behind dash	
NI	042926	1	Wiring loom, cab	

Power supplies

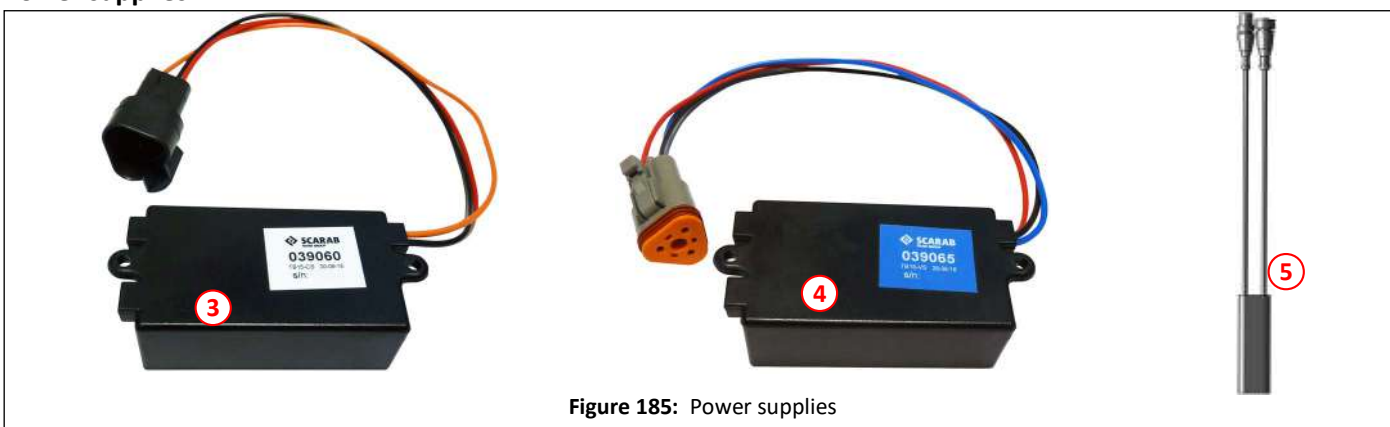


Figure 185: Power supplies

Item	Part No	Qty	Description	
③	039060	1	LED power supply, behind dash	
④	039065	1	12v to 5v power supply, behind fuse board	
⑤	044675	1	PPU Regulator	
NI	042096	1	Wiring loom, cab	

Dash display screen



Figure 186: Dash display screen

Item	Part No	Qty	Description	
①	041925	1	Dash display screen, CR0452, programmed	
NI	043236	1	Wiring loom, dash display screen, CR0452	

Hopper controller remote



Figure 187: Hopper controller remote

Item	Part No	Qty	Description	
②	043688	1	Hopper controller remote, complete	

Fuse panel left hand drive

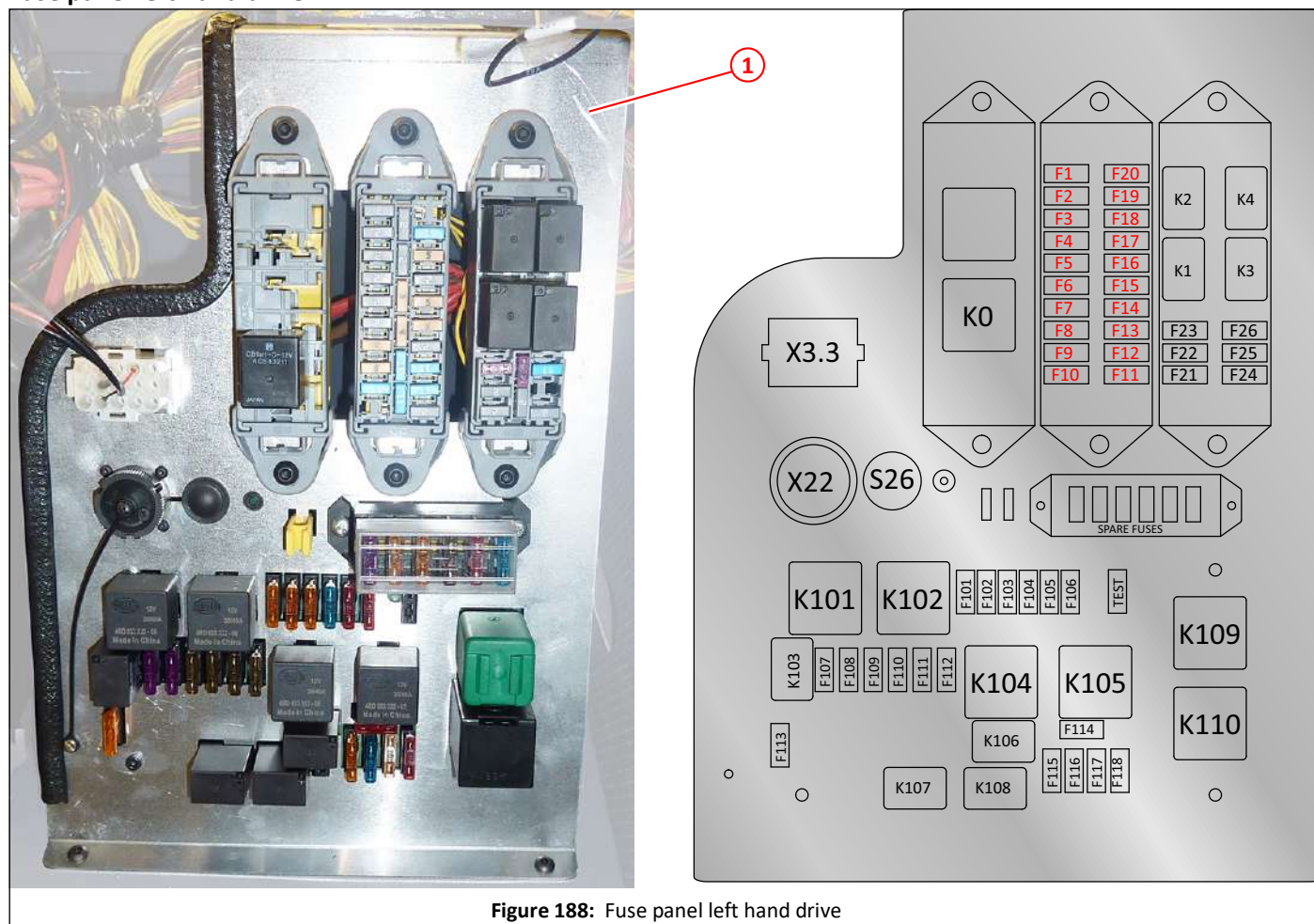


Figure 188: Fuse panel left hand drive

Item	Part No	Qty	Description	
①	042292	1	Fuse box assembly, left hand drive	285
F1	004495	1	2 amp mini fuse, node 0 ignition	240
F2	004495	1	2 amp mini fuse, node 1 ignition	240
F3	004495	1	2 amp mini fuse, node 2 ignition	240
F4	004495	1	2 amp mini fuse, node 2.1 ignition	240
F5	004495	1	2 amp mini fuse, node 3 ignition	240
F6	004495	1	2 amp mini fuse, Body builder plug ignition 1	240
F7	004391	1	5 amp mini fuse, body builder plug ignition 2	240
F8	004391	1	5 amp mini fuse, fuel gauge PSU	240
F9	004394	1	15 amp mini fuse, heater	240
F10			Vacant	
F11	004495	1	2 amp mini fuse, node 2 battery+	240
F12	004394	1	15 amp mini fuse, node 3 VBBo	240
F13	004394	1	15 amp mini fuse, node 3 VBBo	240
F14	004495	1	2 amp mini fuse, node 3 VBBo	240
F15	004391	1	5 amp mini fuse, body builder plug battery+	240
F16	004391	1	5 amp mini fuse, body builder plug battery+	240
F17	004495	1	2 amp mini fuse, hopper controller	240
F18	004391	1	5 amp mini fuse, ignition switch	240
F19	004394	1	15 amp mini fuse, climate pack	240
F20			Vacant	

Continued...

Fuse panel left hand drive

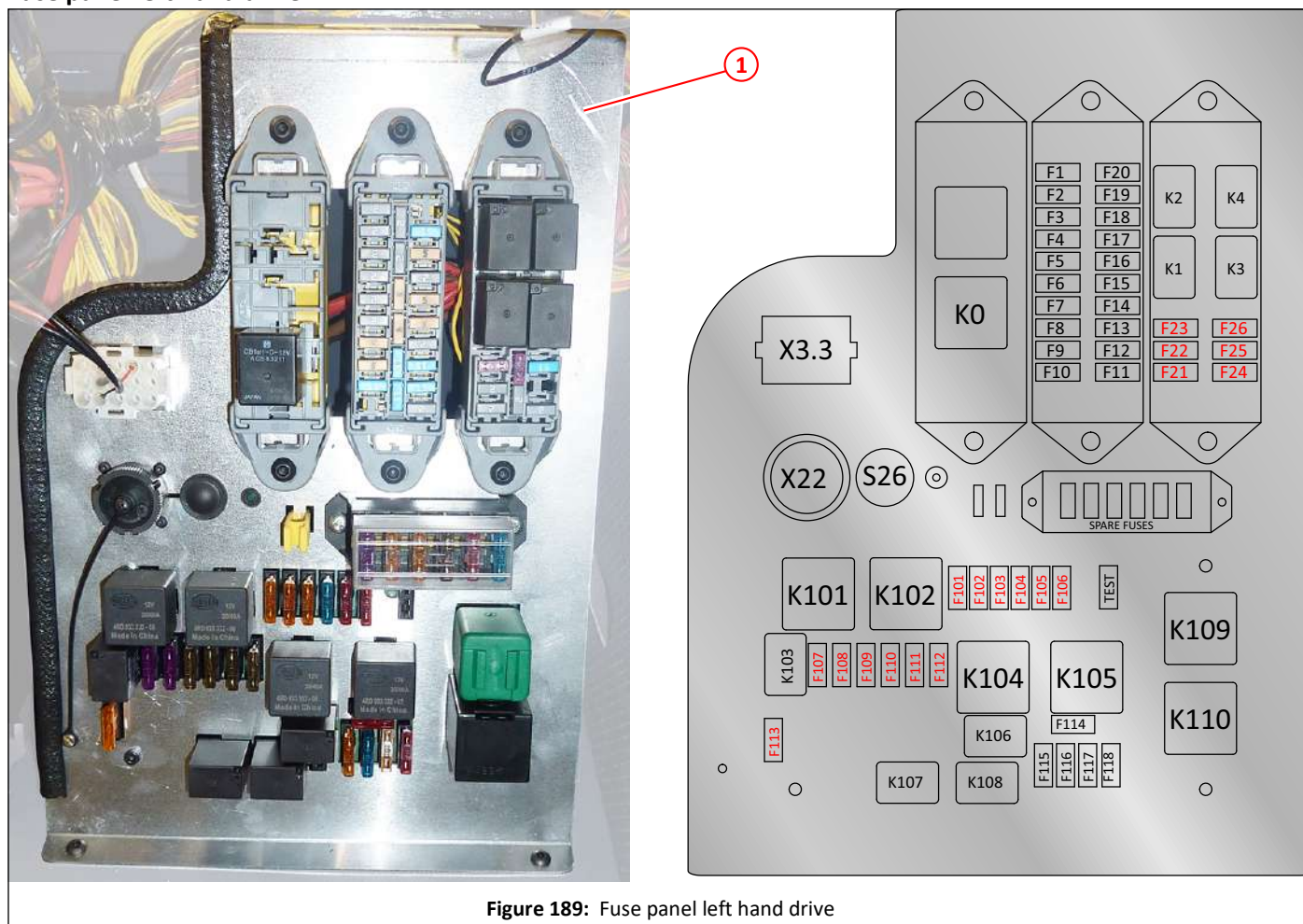


Figure 189: Fuse panel left hand drive

Item	Part No	Qty	Description	
①	042292	1	Fuse box assembly, left hand drive	285
F21	004495	1	2 amp mini fuse, right hand cam signal	240
F22	004495	1	2 amp mini fuse, engine running signal	240
F23	004569	1	3 amp mini fuse, motor coil	240
F24	004495	1	2 amp mini fuse, reverse coil	240
F25			Vacant	
F26	004394	1	15 amp mini fuse, vacuum pump	240
F101	014286	1	5 amp blade fuse, cab interior light	240
F102	014286	1	5 amp blade fuse, rear fog lights	240
F103	014286	1	5 amp blade fuse, brake lights	240
F104	014286	1	15 amp blade fuse, front beacon	240
F105	014288	1	10 amp blade fuse, horn/radio	240
F106	014288	1	10 amp blade fuse, hazard battery+	240
F107	014284	1	3 amp blade fuse, left hand side light	240
F108	014284	1	3 amp blade fuse, right hand side light	240
F109	014287	1	7.5 amp blade fuse, left hand dipped beam	240
F110	014287	1	7.5 amp blade fuse, right hand dipped beam	240
F111	014287	1	7.5 amp blade fuse, left hand main beam	240
F112	014287	1	7.5 amp blade fuse, right hand main beam	240
F113	014286	1	5 amp blade fuse, power socket/radio	240

Continued...

Fuse panel left hand drive

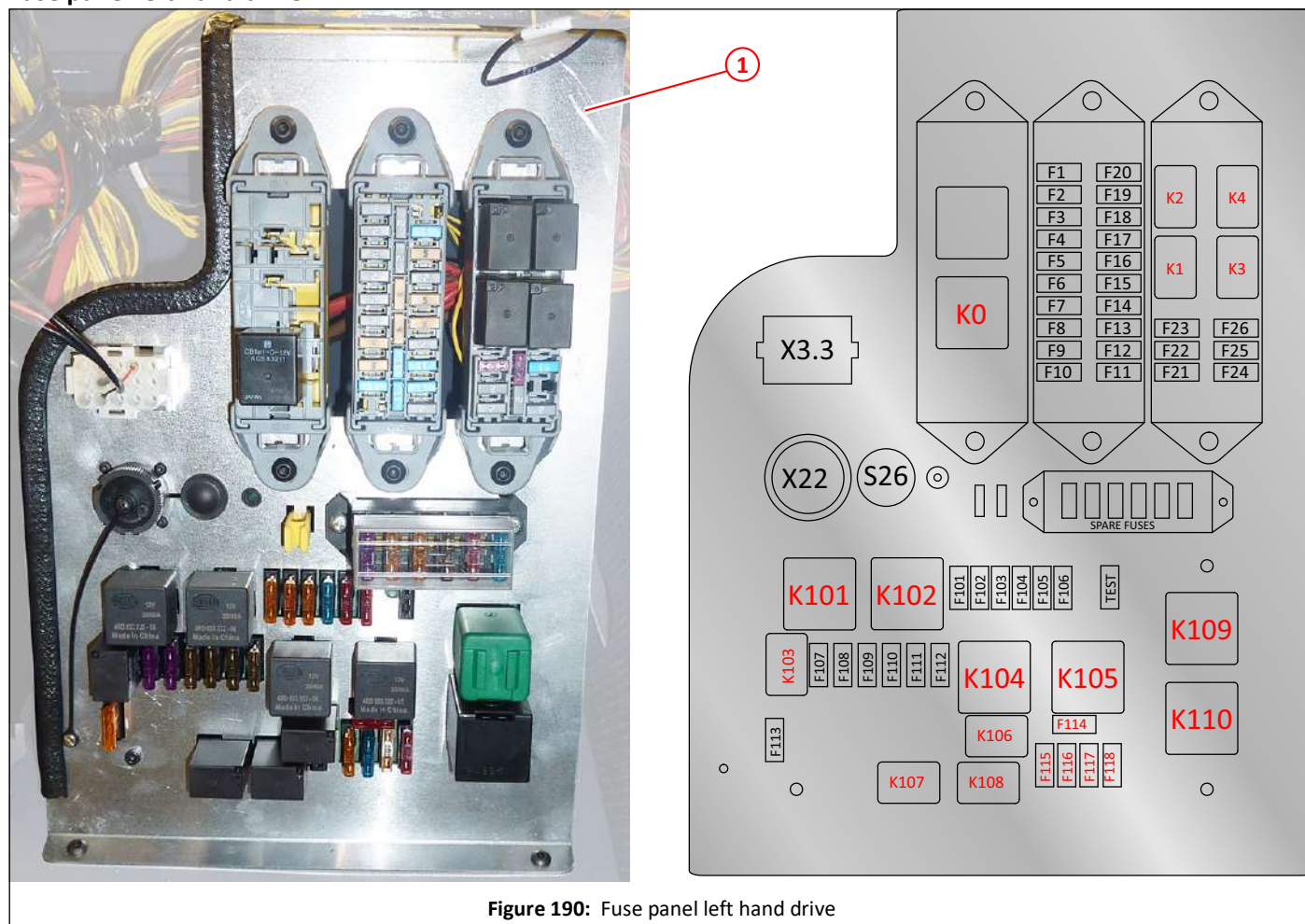
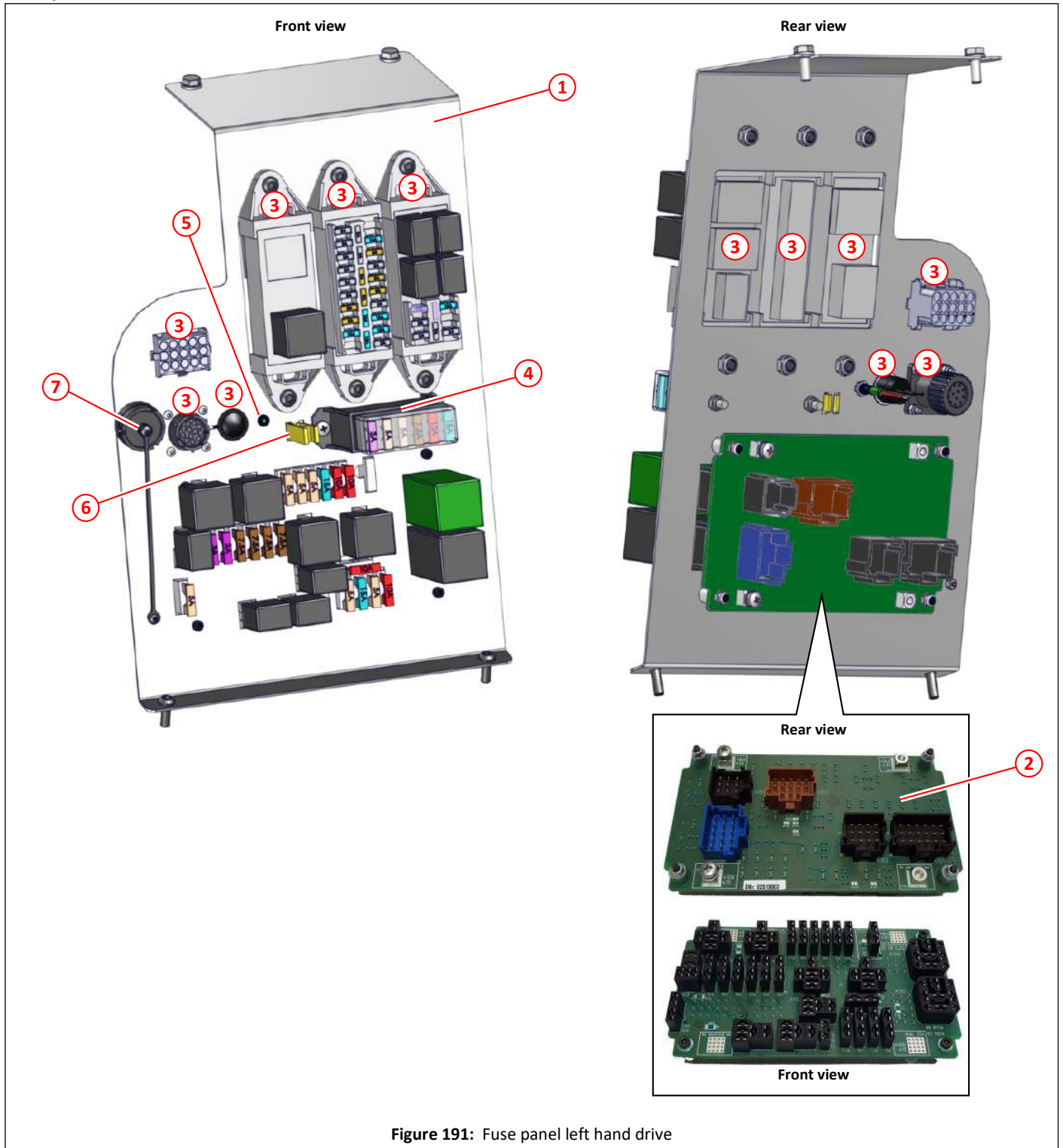


Figure 190: Fuse panel left hand drive

Item	Part No	Qty	Description	
①	042292	1	Fuse box assembly, left hand drive	285
F114	014288	1	10 amp blade fuse, rear beacon	240
F115	014286	1	5 amp blade fuse, reverse lights	240
F116	014289	1	15 amp blade fuse, wipers	240
F117	014286	1	5 amp blade fuse, forward/reverse lever	240
F118	014288	1	10 amp blade fuse, turn signals	240
K0	032804	1	Relay, 12 Volt 70 Amp with diode, ignition	241
K1	038562	1	Micro relay, vacuum pump	241
K2	038562	1	Micro relay, engine running	241
K3	038562	1	Micro relay, neutral start	241
K4	038562	1	Micro relay, air conditioning cut out relay	241
K101	011768	1	Cross over relay, 12 volt 30 amp, dipped beam	241
K102	011768	1	Cross over relay, 12 volt 30 amp, main beam	241
K103	038562	1	Micro relay, side lights	241
K104	011768	1	Cross over relay, 12 volt 30 amp, front beacon	241
K105	011768	1	Cross over relay, 12 volt 30 amp, rear beacon	241
K106	038562	1	Micro relay, reverse lights	241
K107	038562	1	Micro relay, fog lights relay	241
K108	038562	1	Micro relay, brake lights relay	241
K109	042807	1	Flasher unit, LED rear lights	241
K110	038559	1	Relay 12v wash wipe	241

Continued...

Fuse panel left hand drive



Item	Part No	Qty	Description	
①	040273	1	Fuse panel mounting plate, left hand drive	285
②	038554	1	Transport regulation module	
③	042926	1	Cab wiring loom, these items are part of the loom	
④	031996	1	6 way spare fuse holder	
⑤	004565	1	Green LED 12v with lead	
⑥	039733	1	Extractor for fuse blade fuses	
⑦	043377	1	Neptune socket dust cap, shell size 14	

Fuse panel right hand drive

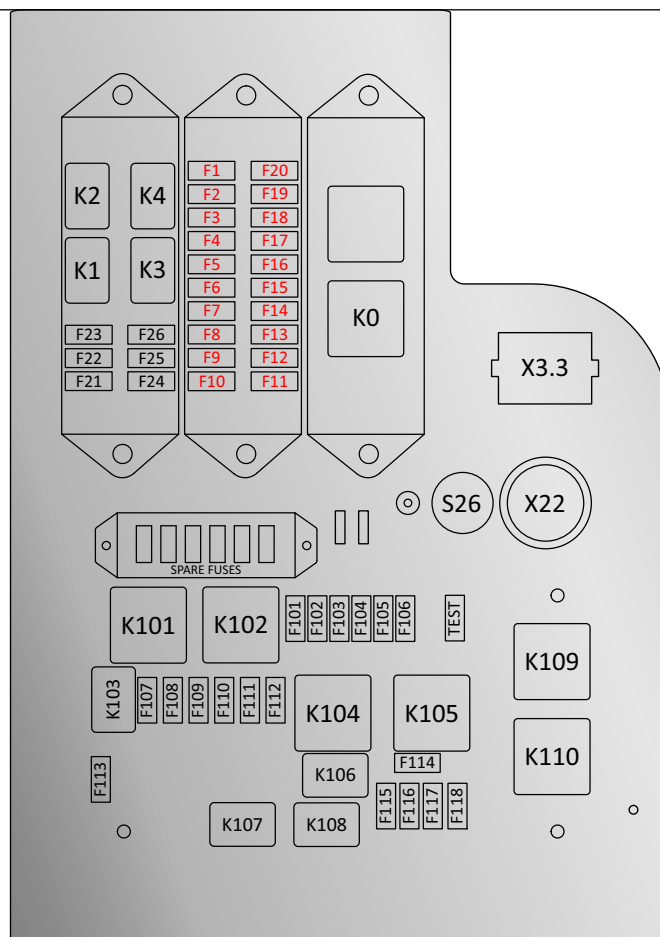
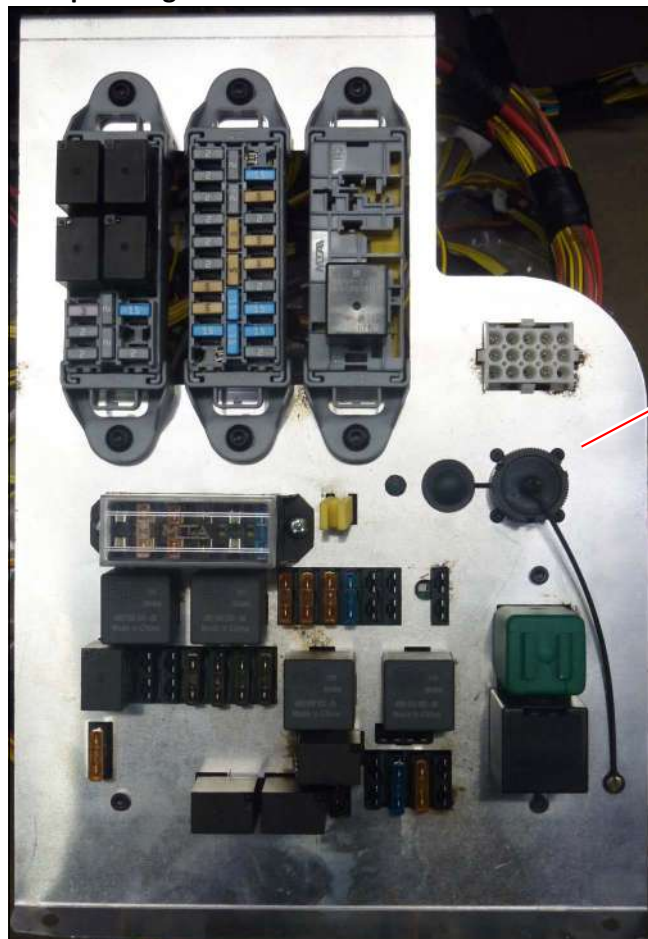


Figure 192: Fuse panel right hand drive

Item	Part No	Qty	Description	
①	042293	1	Fuse box assembly, right hand drive	285
F1	004495	1	2 amp mini fuse, node 0 ignition	240
F2	004495	1	2 amp mini fuse, node 1 ignition	240
F3	004495	1	2 amp mini fuse, node 2 ignition	240
F4	004495	1	2 amp mini fuse, node 2.1 ignition	240
F5	004495	1	2 amp mini fuse, node 3 ignition	240
F6	004495	1	2 amp mini fuse, Body builder plug ignition 1	240
F7	004391	1	5 amp mini fuse, body builder plug ignition 2	240
F8	004391	1	5 amp mini fuse, fuel gauge PSU	240
F9	004394	1	15 amp mini fuse, heater	240
F10			Vacant	240
F11	004495	1	2 amp mini fuse, node 2 battery+	240
F12	004394	1	15 amp mini fuse, node 3 VBBo	240
F13	004394	1	15 amp mini fuse, node 3 VBBo	240
F14	004495	1	2 amp mini fuse, node 3 VBBo	240
F15	004391	1	5 amp mini fuse, body builder plug battery+	240
F16	004391	1	5 amp mini fuse, body builder plug battery+	240
F17	004495	1	2 amp mini fuse, hopper controller	240
F18	004391	1	5 amp mini fuse, ignition switch	240
F19	004394	1	15 amp mini fuse, climate pack	240
F20			Vacant	240

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Fuse panel right hand drive

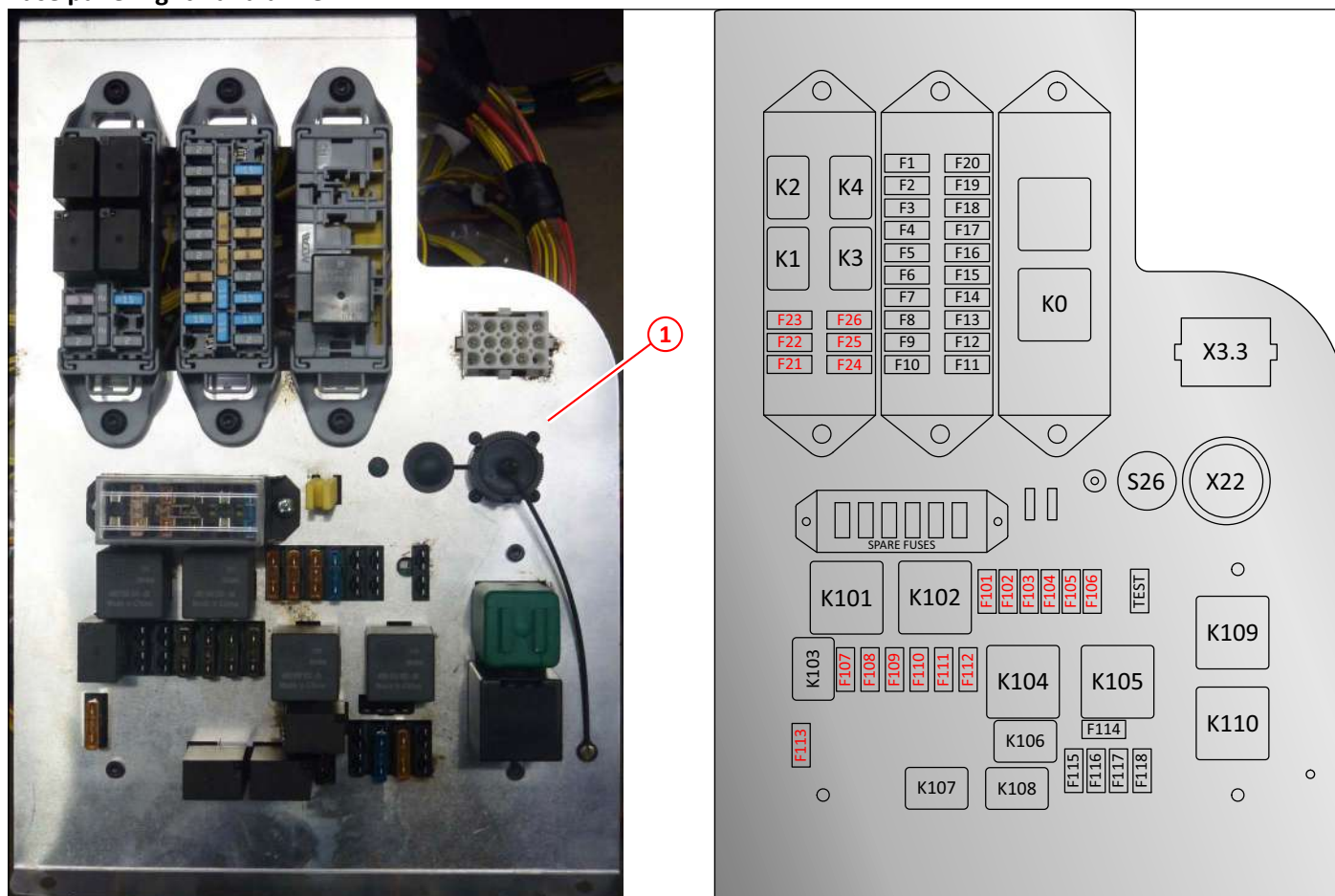


Figure 193: Fuse panel right hand drive

Item	Part No	Qty	Description	
①	042293	1	Fuse box assembly, right hand drive	285
F21	004495	1	2 amp mini fuse, right hand cam signal	240
F22	004495	1	2 amp mini fuse, engine running signal	240
F23	004569	1	3 amp mini fuse, motor coil	240
F24	004495	1	2 amp mini fuse, reverse coil	240
F25			Vacant	
F26	004394	1	15 amp mini fuse, vacuum pump	240
F101	014286	1	5 amp blade fuse, cab interior light	240
F102	014286	1	5 amp blade fuse, rear fog lights	240
F103	014286	1	5 amp blade fuse, brake lights	240
F104	014289	1	15 amp blade fuse, front beacon	240
F105	014288	1	10 amp blade fuse, horn/radio	240
F106	014288	1	10 amp blade fuse, hazard battery+	240
F107	014284	1	3 amp blade fuse, left hand side light	240
F108	014284	1	3 amp blade fuse, right hand side light	240
F109	014287	1	7.5 amp blade fuse, left hand dipped beam	240
F110	014287	1	7.5 amp blade fuse, right hand dipped beam	240
F111	014287	1	7.5 amp blade fuse, left hand main beam	240
F112	014287	1	7.5 amp blade fuse, right hand main beam	240
F113	014286	1	5 amp blade fuse, power socket/radio	240

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Fuse panel right hand drive

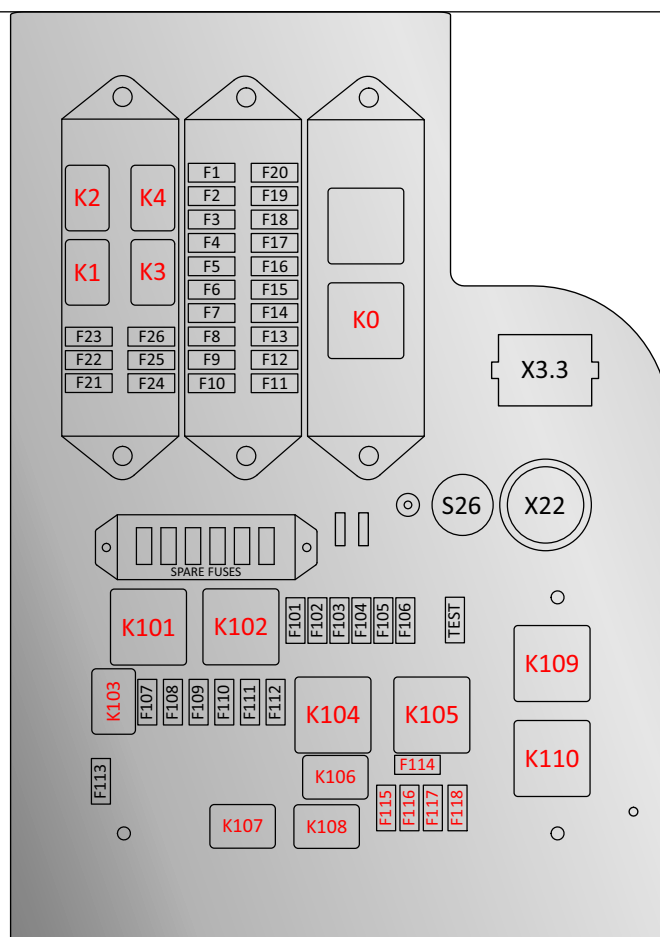
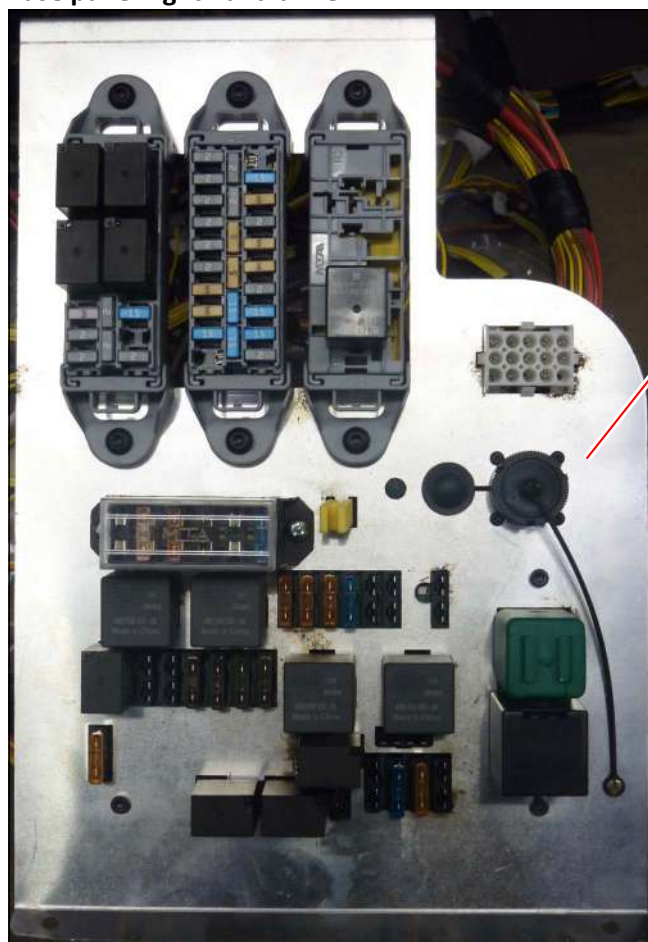
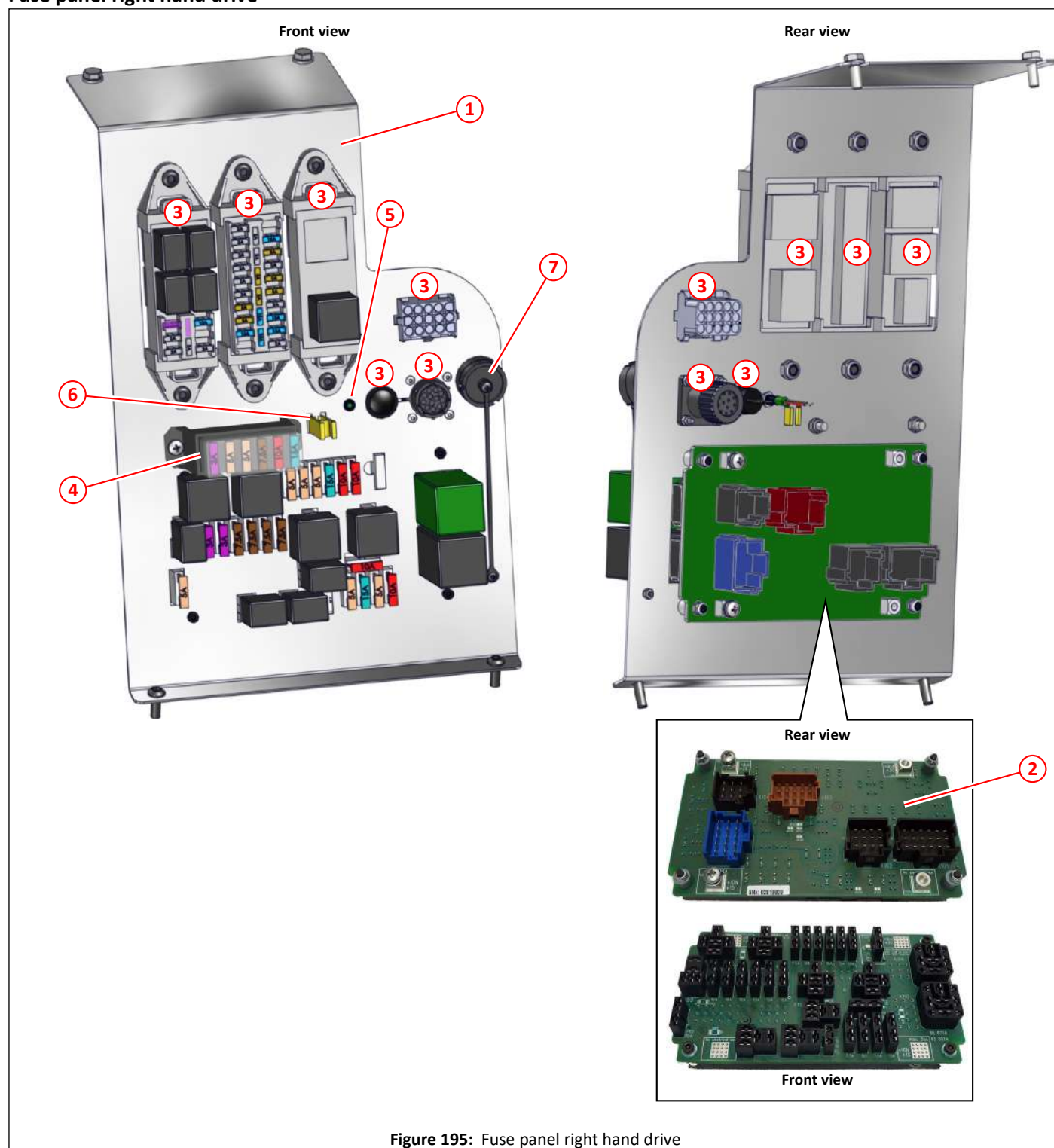


Figure 194: Fuse panel right hand drive

Item	Part No	Qty	Description	
①	042293	1	Fuse box assembly, right hand drive	285
F114	014288	1	10 amp blade fuse, rear beacon	240
F115	014286	1	5 amp blade fuse, reverse lights	240
F116	014289	1	15 amp blade fuse, wipers	240
F117	014286	1	5 amp blade fuse, forward/reverse lever	240
F118	014288	1	10 amp blade fuse, turn signals	240
K0	032804	1	Relay, 12 Volt 70 Amp with diode, ignition	241
K1	038562	1	Micro relay, vacuum pump	241
K2	038562	1	Micro relay, engine running	241
K3	038562	1	Micro relay, neutral start	241
K4	038562	1	Micro relay, air conditioning cut out relay	241
K101	011768	1	Cross over relay, 12 volt 30 amp, dipped beam	241
K102	011768	1	Cross over relay, 12 volt 30 amp, main beam	241
K103	038562	1	Micro relay, side lights	241
K104	011768	1	Cross over relay, 12 volt 30 amp, front beacon	241
K105	011768	1	Cross over relay, 12 volt 30 amp, rear beacon	241
K106	038562	1	Micro relay, reverse lights	241
K107	038562	1	Micro relay, fog lights relay	241
K108	038562	1	Micro relay, brake lights relay	241
K109	042807	1	Flasher unit, LED rear lights	241
K110	038559	1	Relay 12v wash wipe	241

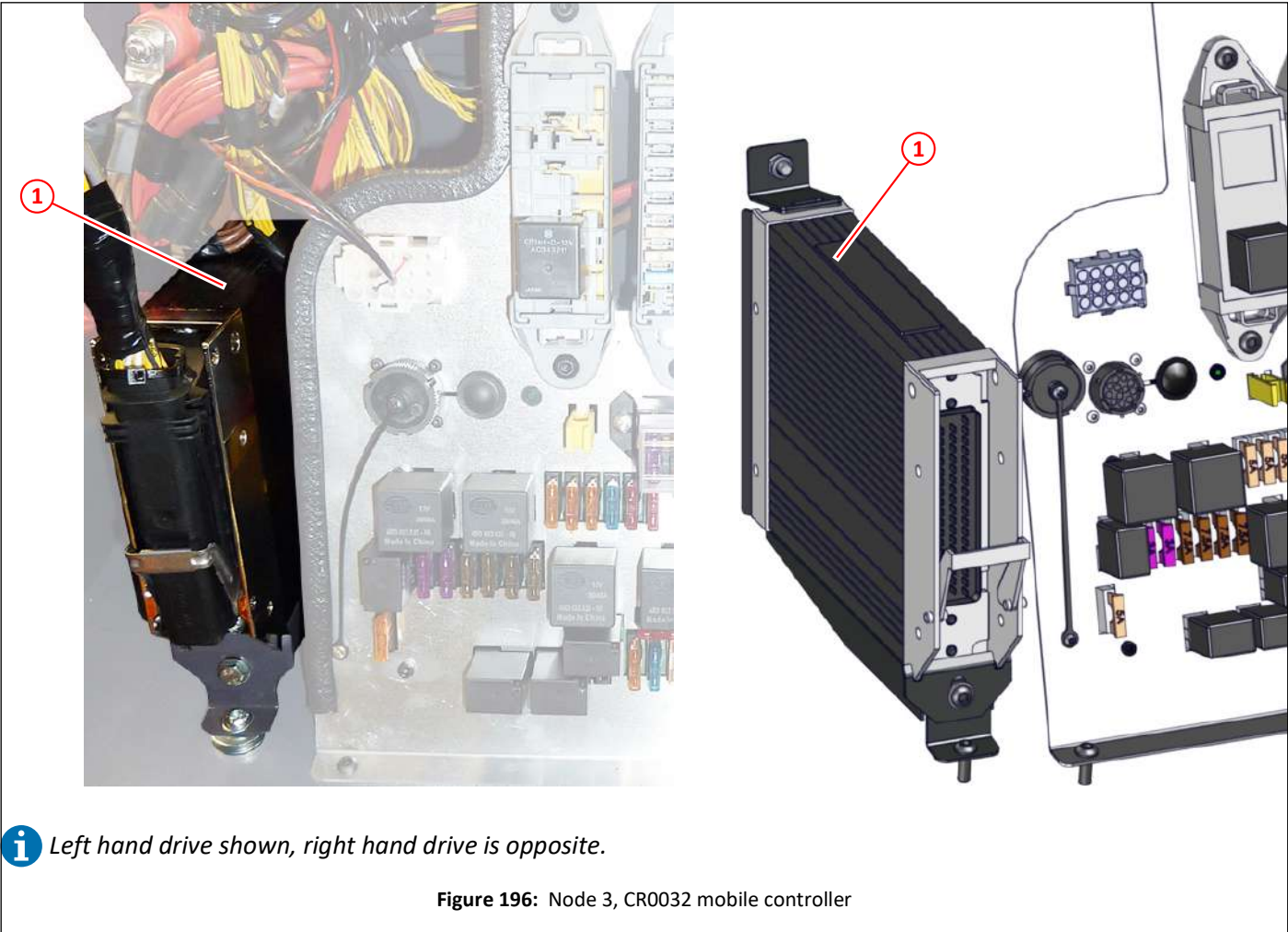
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Fuse panel right hand drive



Item	Part No	Qty	Description	
①	041556	1	Fuse panel mounting plate, right hand drive	285
②	038554	1	Transport regulation module	
③	042926	1	Cab wiring loom, these items are part of the loom	
④	031996	1	6 way spare fuse holder	
⑤	004565	1	Green LED 12v with lead	
⑥	039733	1	Extractor for fuse blade fuses	
⑦	043377	1	Neptune socket dust cap, shell size 14	

Node 3, CR0032 mobile controller



Item	Part No	Qty	Description	
①	041838	1	Node 3, CR0032 mobile controller, programmed	285
NI	042096	1	Wiring loom, cab	

Gantry electrical cabinet

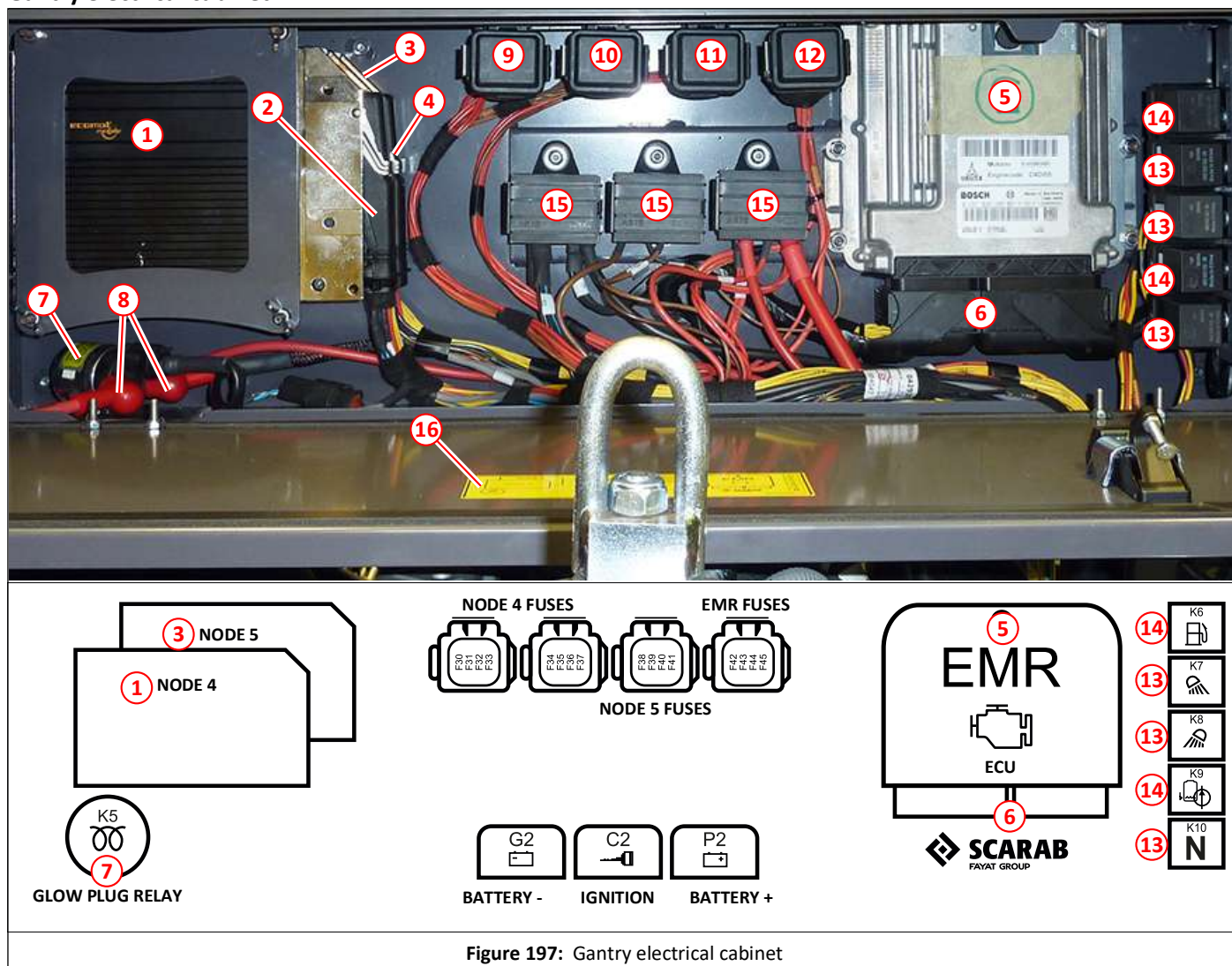


Figure 197: Gantry electrical cabinet

Item	Part No	Qty	Description	
①	042336	1	Node 4, CR0020 mobile controller, programmed, (at the front)	
②	042928	1	Node 4 wiring loom	
③	042336	1	Node 5, CR0020 mobile controller, programmed, (at the rear)	
④	042929	1	Node 5, wiring loom	
⑤	041623*	1	DEUTZ EMR	240
⑥	042927	1	DEUTZ engine wiring loom	
⑦	041669	1	Glow plug relay. K5	241
⑧	043237	1	Gantry, alternator and glow plug cables	
⑨	‡	1	Node 4 fuse holder	238
⑩	‡	1	Node 4 fuse holder	238
⑪	‡	1	Node 5 fuse holder	238
⑫	‡	1	EMR fuse holder	238
⑬	011768	3	Cross over relay, 12 volt 30 amp	238,241
⑭	004591	2	Relay 12 volt 40/60 amp with diode	238,241
⑮	036844	3	Power connection link	
⑯	043712	1	Gantry fuses label	

* EMR needs to be matched to engine number, please contact Scarab Parts Department.

‡ The fuse holders are a part of the wiring loom

Gantry fuse holders

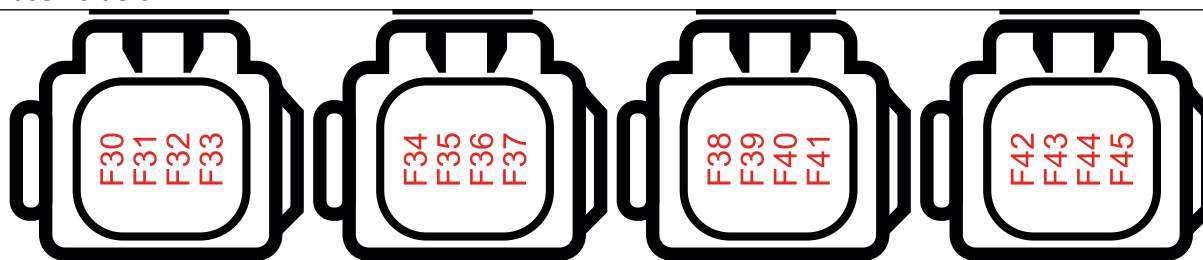


Figure 198: Gantry fuse holders

Item	Part No	Qty	Description	
Node 4 fuses				
F30	014289	1	15 amp blade fuse, Node 4 battery +	237
F31	014289	1	15 amp blade fuse, Node 4 battery +	237
F32	014286	1	5 amp blade fuse, left hand work light	237
F33	014290	1	20 amp blade fuse, water pump	237
Node 4 fuses				
F34	004485	1	2 amp blade fuse, Node 4 ignition	237
F35	014284	1	3 amp blade fuse, road speed sender	237
F36	014286	1	5 amp blade fuse, Node 4 switch supply	237
F37			Vacant	
Node 5 fuses				
F38	014289	1	15 amp blade fuse, Node 5 battery +	237
F39	014289	1	15 amp blade fuse, Node 5 battery +	237
F40	004485	1	2 amp blade fuse, Node 5 ignition	237
F41	014286	1	5 amp blade fuse, right hand work light	237
EMR fuses				
F42	041292	1	30 amp blade fuse, DEUTZ engine EMR	237
F43	014286	1	5 amp blade fuse, alternator	237
F44	014290	1	20 amp blade fuse, fuel pump	237
F45			Vacant	

Gantry relays

Item	Part No	Qty	Description	
Node 4 fuses				
K6 	011768	1	Cross over relay, 12 volt 30 amp, fuel pump	237,241
K7 	011768	1	Cross over relay, 12 volt 30 amp, right hand work lights	237,241
K8 	011768	1	Cross over relay, 12 volt 30 amp, left hand work lights	237,241
K9 	011768	1	Cross over relay, 12 volt 30 amp, low pressure water pump	237,241
K10 	011768	1	Cross over relay, 12 volt 30 amp, neutral for DEUTZ EMR	237,241

Wiring looms

Part No	Qty	Description	
036912	1	Main control panel keypad, wiring loom	224
036913	1	Auxiliary control panel keypad, wiring loom	225
039672	1	M12 cable to USB	
040724*	1	Battery power distribution, wiring loom, (SecuriLED)	
042900	2	Heated mirror, wiring loom	
042926	1	Cab, wiring loom	
042927	1	DEUTZ engine, wiring loom	
042928	1	Node 4, wiring loom	
042929	1	Node 5, wiring loom	
042930	1	Drive, wiring loom	
042931	1	Chassis, wiring loom	
042932	1	Headlight, wiring loom	
042933	1	Hopper, wiring loom	
042934	1	Transport regulator module, wiring loom	
043234	1	Rear cab wiring loom	
043235	1	Operator display screen, CR1084, wiring loom	
043236	1	Dash display screen, CR0452, wiring loom	
043237	1	Gantry, alternator and glow plug, cables	
043238	1	Battery negative to chassis, cable	
043239	1	Fuse box to starter, cable	
043240	1	Battery positive to fuse box, cable	
043241	1	Cab to earth and gantry, cable	
043767	1	Gantry to earth, cable	
043768*	1	Sweep wash extension, wiring loom	
* Optional, only required if relevant option has been fitted to sweeper			

Cab electrical components

Part No	Qty	Description	
036579	1	Main control panel, complete	224
037606	1	Auxiliary control panel, left hand, complete	225
037607	1	Auxiliary control panel, right hand, complete	225
042366	1	Operator display screen, CR1084, programmed	226
041838	1	Node 3, CR0032 mobile controller	236
036799	3	Node, cabinet module, CR2012, behind dash	226
039060	1	LED power supply, behind dash	226
039065	1	12v to 5v power supply, behind fuse board	226
041925	1	Dash display screen, CR0452, programmed	227
043688	1	Hopper controller remote, complete	227
031745	1	Speakers ø100, flush mount, pair	
043378	1	Radio, with Parrot bluetooth, iPod and iPhone connection	
038733	1	Power socket	
038557	1	Interior light	
044257	1	Wiper motor	

Gantry, hopper and chassis electrical components

Part No	Description	
041623*	DEUTZ EMR	237
042336	Node 4, CR0020 mobile controller, programmed,	237
042336	Node 5, CR0020 mobile controller, programmed,	237
037169	Battery, 12v 110Ah	
042278	Water pump, low pressure	150
039336	LED high level brake light	
040354	Rear view camera	
037666	Hopper and door operation sounder / Reverse bleeper	
019123	Horn	
043177	Battery Junction Box	
* EMR needs to be matched to engine number, please contact Scarab Parts Department.		

Switches

Part No	Description	
031406‡	Switch, off/on	
031407‡	Switch, off/on/on	
031408‡	Switch, hazard warning lights	
038556‡	Switch, normally closed	
038997‡	Switch, momentary	
043140	Ignition switch	
032910	Handbrake/ brake light switch	400
032627	Hopper raise proximity sensor	
024064	Load sensor, microswitch wobble stick	
‡ This is just the switch and does not include the 'usage' insert. See page 270 for the inserts.		

Fuses

Part No	Description	
004495	2 amp mini fuse	
004569	3 amp mini fuse	
004391	5 amp mini fuse	
004394	15 amp mini fuse	
004485	2 amp blade fuse	
014284	3 amp blade fuse	
014286	5 amp blade fuse	
014287	7.5 amp blade fuse	
014288	10 amp blade fuse	
014289	15 amp blade fuse	
014290	20 amp blade fuse	
014292	30 amp blade fuse	

Relays

Part No	Description	
011768	Cross over relay, 12 volt 30 amp	
004591	Relay 12 volt 40/60 amp with diode	
032804	Relay, 12 volt 70 amp with diode	
038562	Micro relay	
042807	Flasher unit	
038559	Relay 12v	

Vehicle lights

Part No	Qty	Description	
034847	2	Main beam and sidelight headlight unit	
011499	2	Bulb, headlight, 12v 55 watt	
011500	2	Bulb, sidelight, 12v 4 watt	
034848	2	Dip beam headlight unit	
011499	2	Bulb, headlight, 12v 55 watt	
034850	2	Front turn signal light unit	
004416	2	Bulb, front turn signal, 12v 21 watt, amber	
038854	2	LED daytime running light unit	
034849	2	Side turn indicator light unit, complete with bulb	
011487	2	Bulb, capless, side turn indicator, 12v 5 watt	
042719	2	LED turn signal/stop/rear light unit	
042522	2	Rear reflector	
042718	2	LED fog light and reverse light unit	
042544	2	Registration plate light	
039336	1	LED high level brake light	

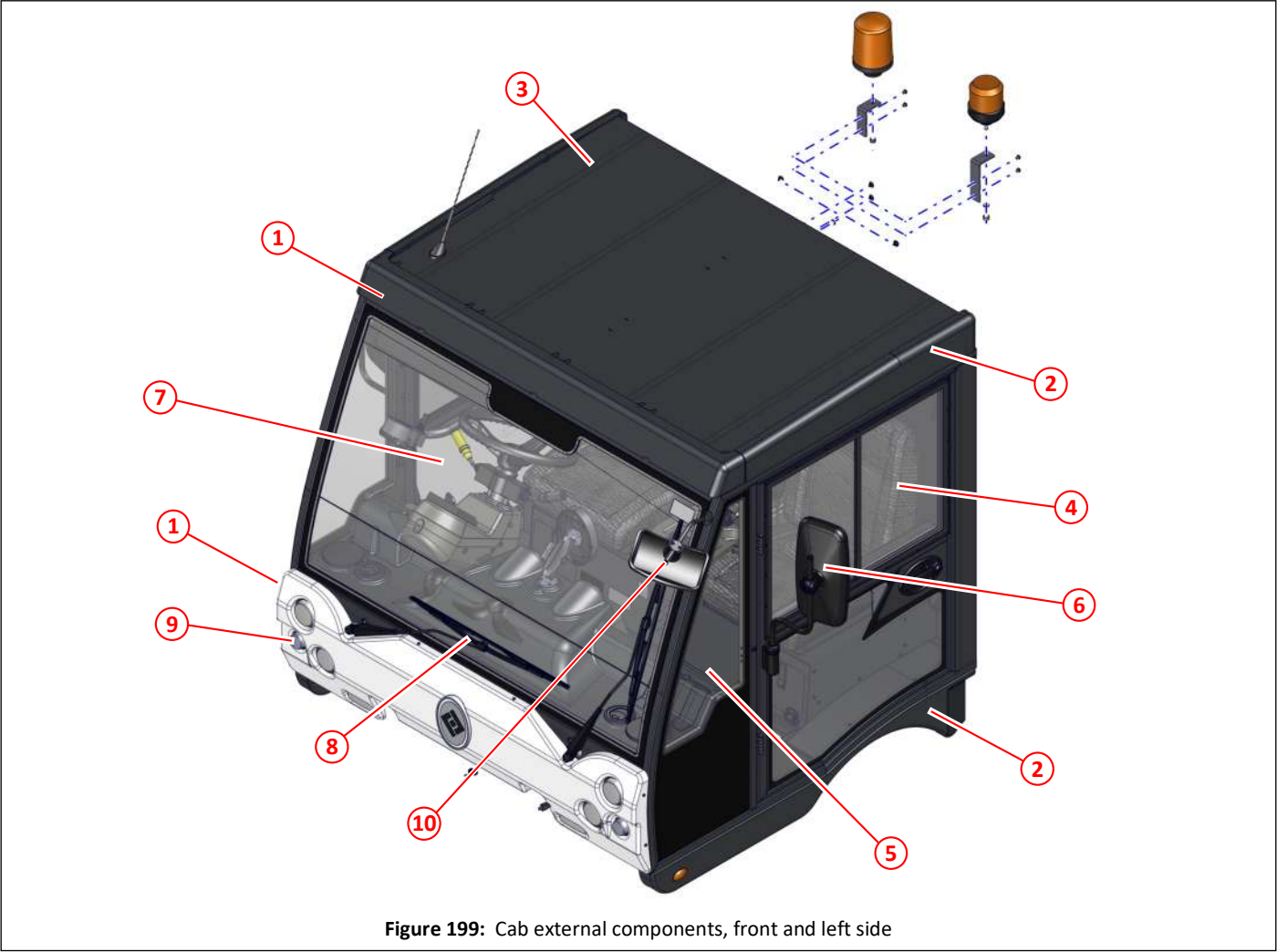
Work lamps, beacons and light bars

Part No	Description	
047757	LED work lamp	
010304	Beacon (rotating)	244,258
011496	Bulb for 010304 Beacon (rotating)	
022097	Lens for 010304 Beacon (rotating)	
044694	LED beacon	244,258
032721	Delta LED beacon (SecuriLED)	
043515	Light bar 20" assembly	
043516	XE (Xenon) light bar 1212mm assembly	
046658	LED light bar 610mm 10 - 30v	
051633	Assembly of LED light bar (046658) includes mounting brackets and fixings.	

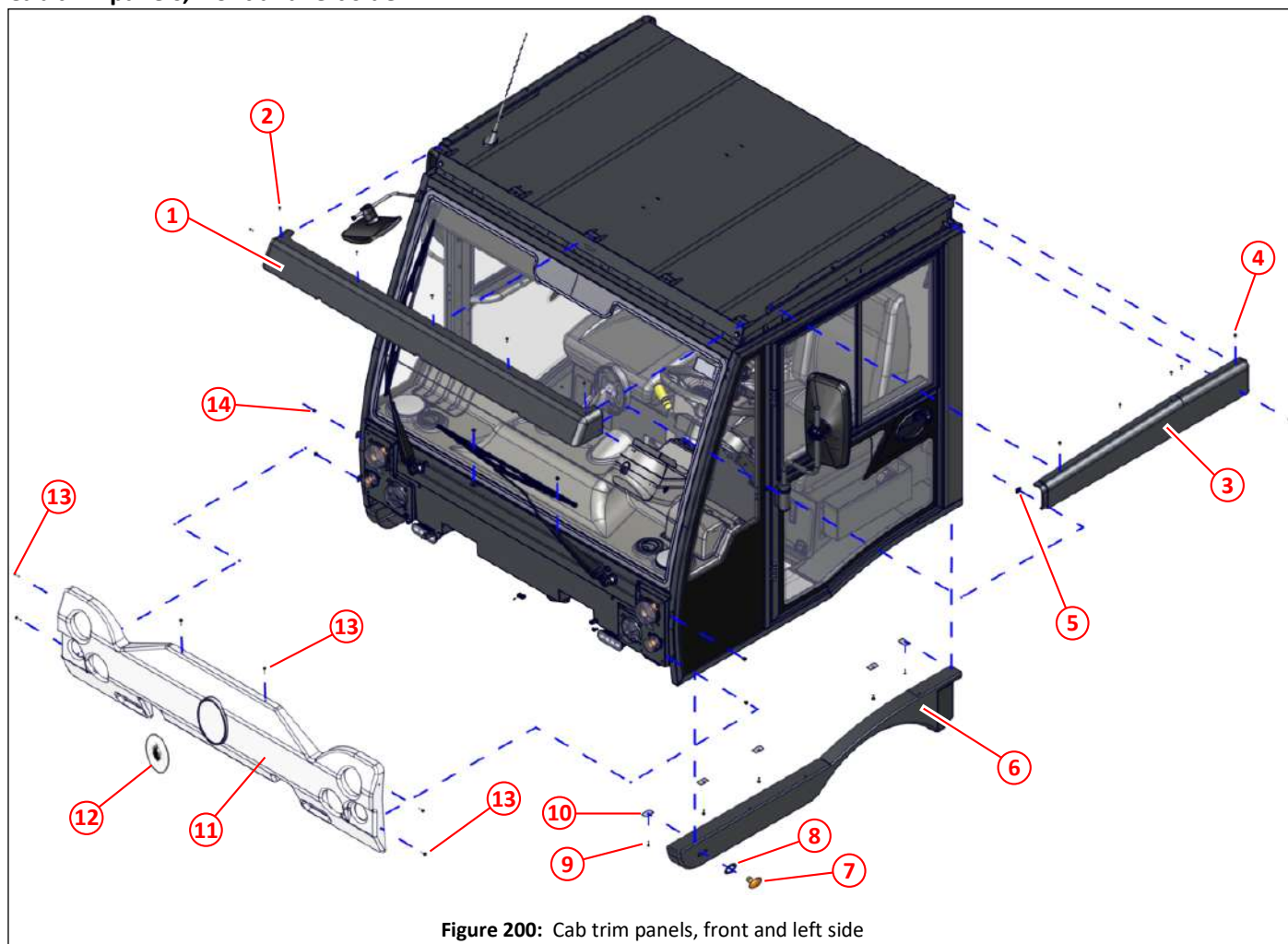
Cab

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Windscreen wiper motor and linkage	287
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Cab external components, front and left side



Item	Part No	Qty	Description	
①			Front trim panels	245, 249
②			Left side trim panels	245
③			Cab roof	254
④			Left side door	246, 247
⑤			Left side quarter light	246
⑥			Left side mirror	252
⑦			Windscreen	255, 256
⑧			Wipers	255, 256
⑨			Front lights	257
⑩			Front brush mirror	252
⑪			Cab beacons	258

Cab trim panels, front and left side

Figure 200: Cab trim panels, front and left side

Item	Part No	Qty	Description	
①	040267	1	Roof trim, front	
②	000476	7	Socket button head screw M5 x 12 (zinc plated)	
③	040266	1	Roof trim, left	
④	000476	6	Socket button head screw M5 x 12 (zinc plated)	
⑤	000437	1	M5 Lug nut	
⑥	040236	1	Wheel arch trim, left hand side	
⑦	034849	1	Side turn signal light	
⑧	037976	1	Mounting plate, side turn signal light	
⑨	000338	5	Socket button head screw M6 x 16	
⑩	038969	5	Reinforcing plate	
⑪	040229	1	Front trim panel	
⑫	040473	1	Scarab badge, front panel	
⑬	000384	6	Stainless steel flange head screw No. 10 x $\frac{3}{4}$ " A2	
⑭	036895	6	Screw grommet	

Cab door, glass and mirror, left side

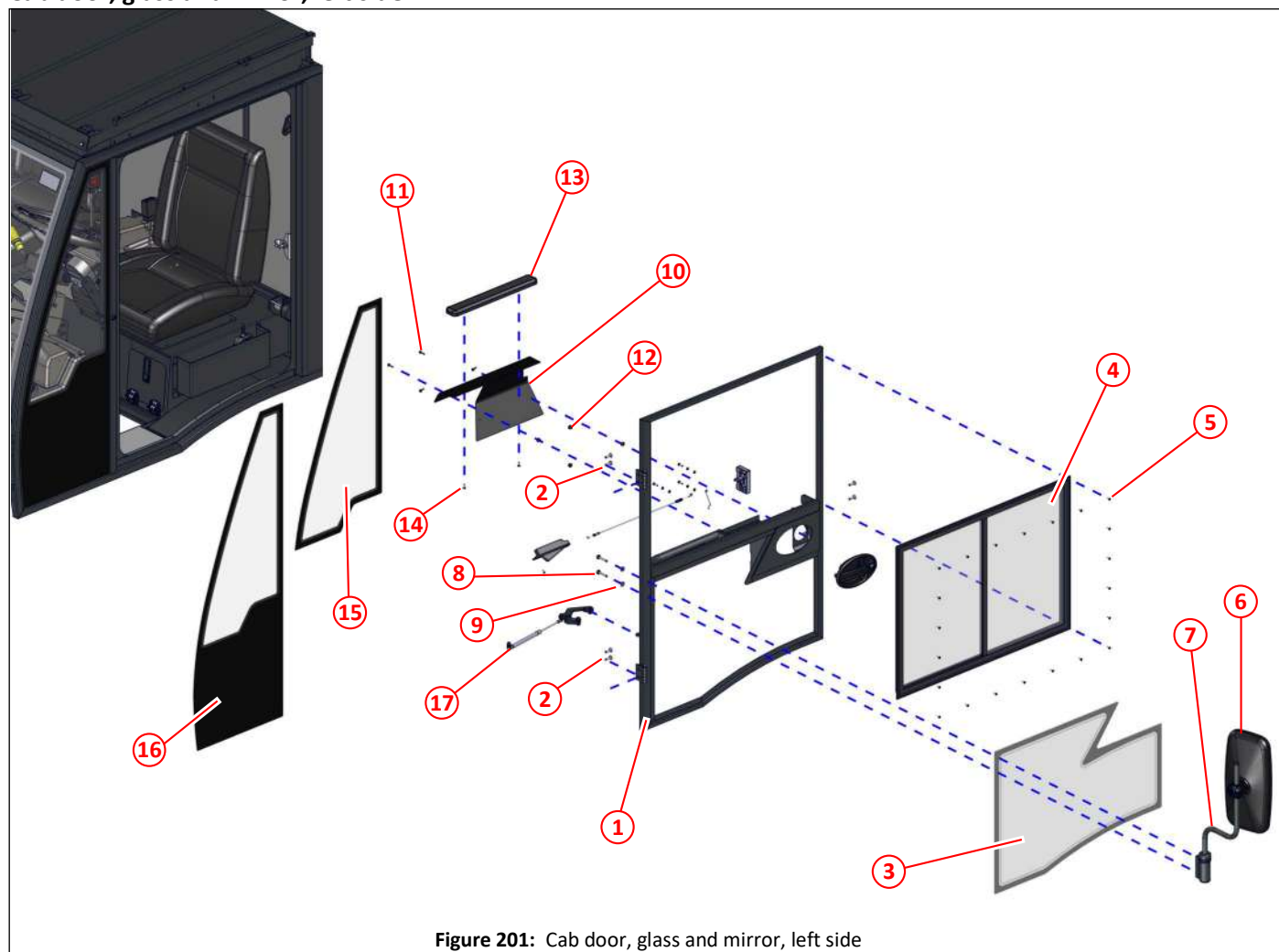
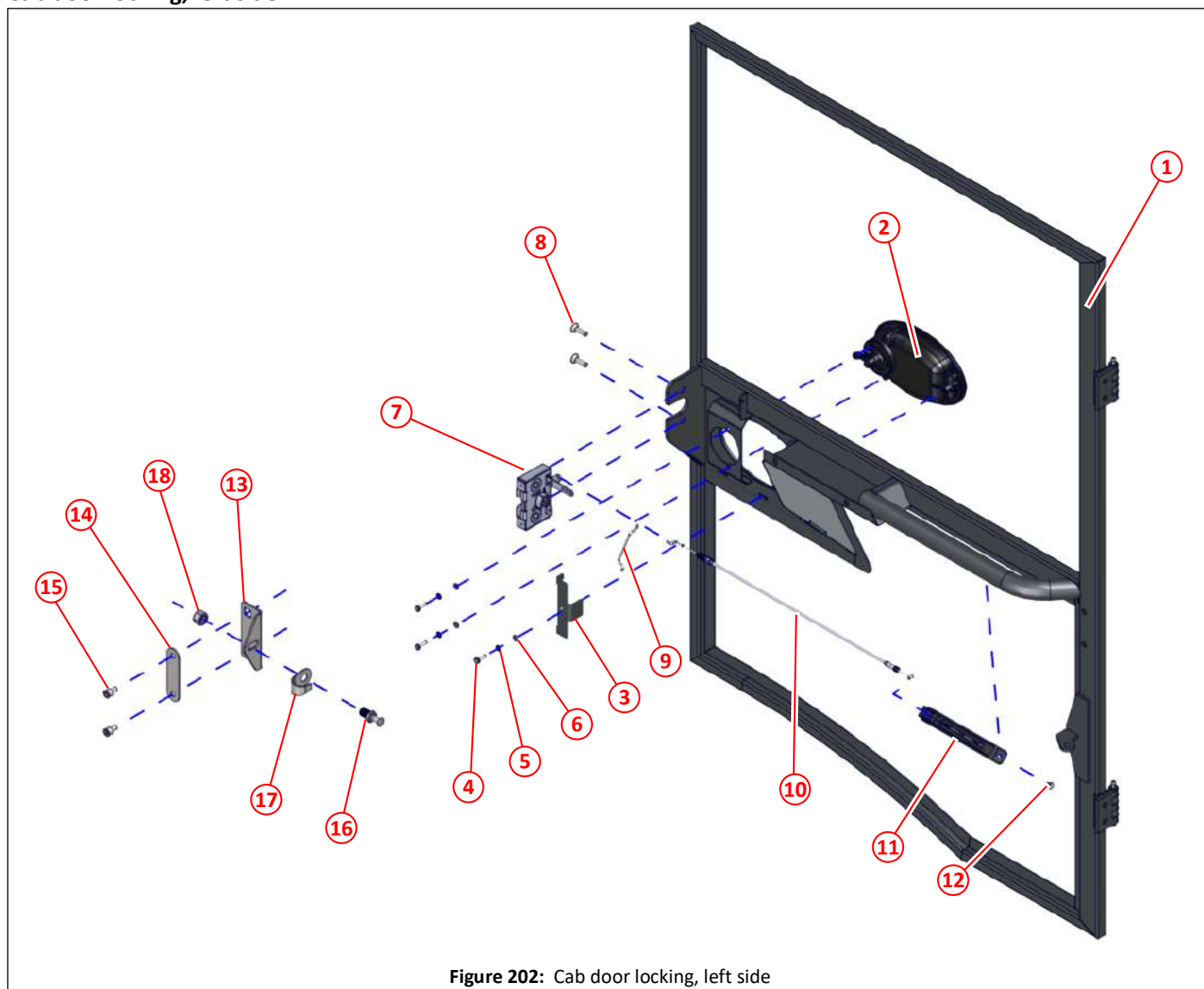


Figure 201: Cab door, glass and mirror, left side

Item	Part No	Qty	Description	
①	040240	1	Door frame, left hand side	
②	000371	4	Socket countersunk head M8 x 25 plated	
③	040238	1	Glass, lower door, left hand side	
④	036890	1	Sliding window assembly, left hand side	
⑤	000404	22	Screw flange head No. 6 x $\frac{1}{2}$ " AB pointed	
⑥	042036	1	Dual mirror, heated	
⑦	044170	1	Mirror arm, 19mm	
⑧	011014	2	Set screw M8 x 40	
⑨	011092	2	Plain washer M8	
⑩	037112	1	Left hand arm rest trim panel	
⑪	000401	4	Screw flange head No. 10 x $\frac{3}{4}$ ", black)	
⑫	036895	4	Screw grommet	
⑬	037130	1	Arm rest	
⑭	011115	2	Pan head pozidrive screw No. 10 x $\frac{1}{2}$ " AB self tapping	
⑮	040232	1	Glass, quarter light front left hand side (half length version)	
⑯	044400		Glass, quarter light front left hand side (full length version)	
⑰			Door stay assembly	252
NI	036900	4m	Door seal, self adhesive	

Cab door locking, left side

Figure 202: Cab door locking, left side

Item	Part No	Qty	Description	
①	040240	1	Door frame, left hand side	
②	037134	2	Door handle, gasket and lock, sold as a pair with keys	
③	036773	1	Stiffener, door handle	
④	000052	3	Bolt M5 x 16	
⑤	000411	3	Spring washer M5	
⑥	000410	3	Plain washer M5	
⑦	037137	1	Heavy duty anti-burst latch, left hand	
⑧	000371	2	Socket countersunk bolt M8 x 25	
⑨	037979	1	Door linkage	
⑩	037902	1	Cable assembly	
⑪	037136	1	Squeeze lever assembly	
⑫	000406	1	Socket countersunk screw M5 x 10	
⑬	037119	1	Striker pin bracket	
⑭	044604	1	Washer plate M8	
⑮	000123	2	Socket cap head screw M8 x 12	
⑯	037133	1	Striker pin	
⑰	037120	1	Striker pin cover	
⑱	000408	1	Full nut M12 x 1	

Cab external components, front and right side

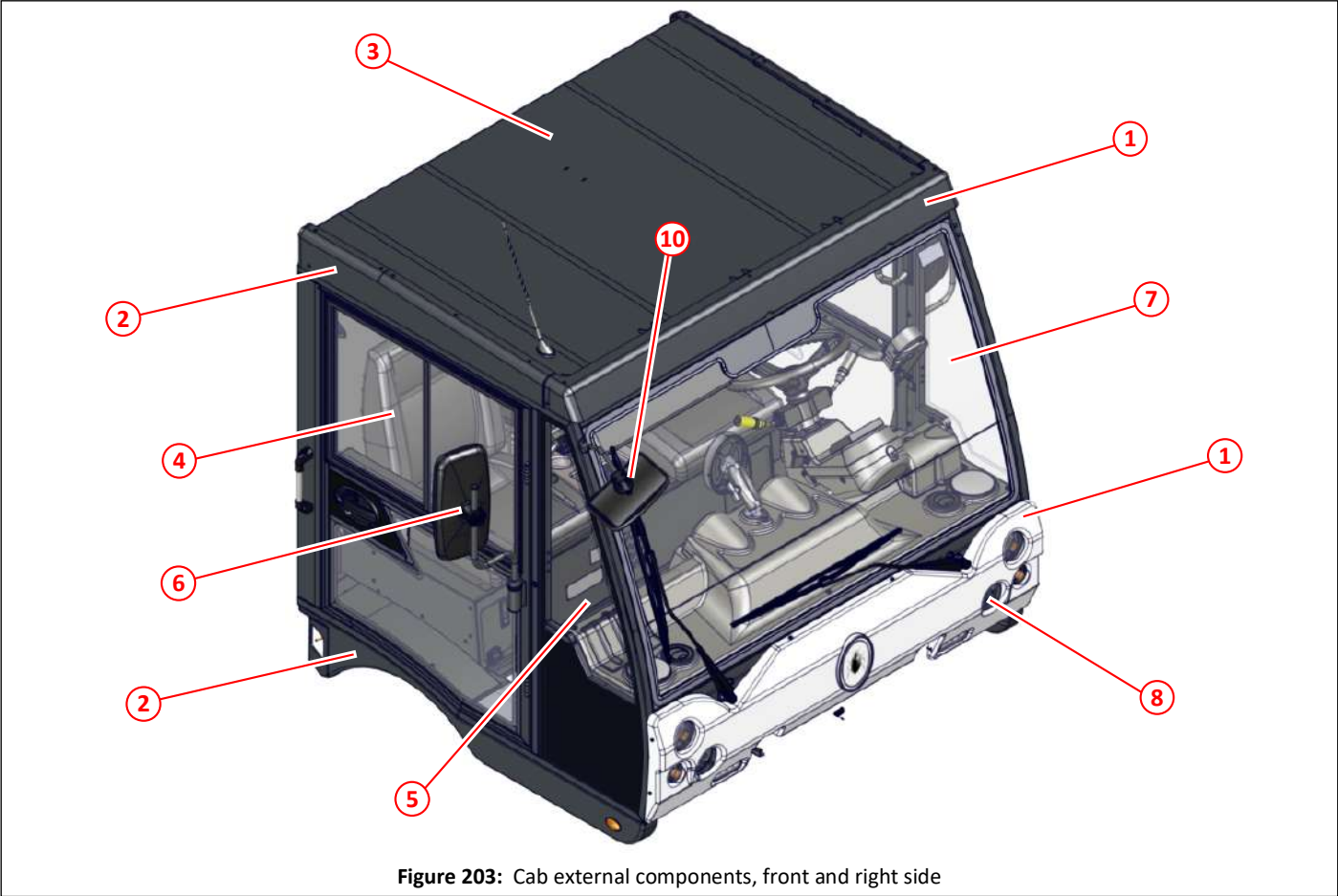
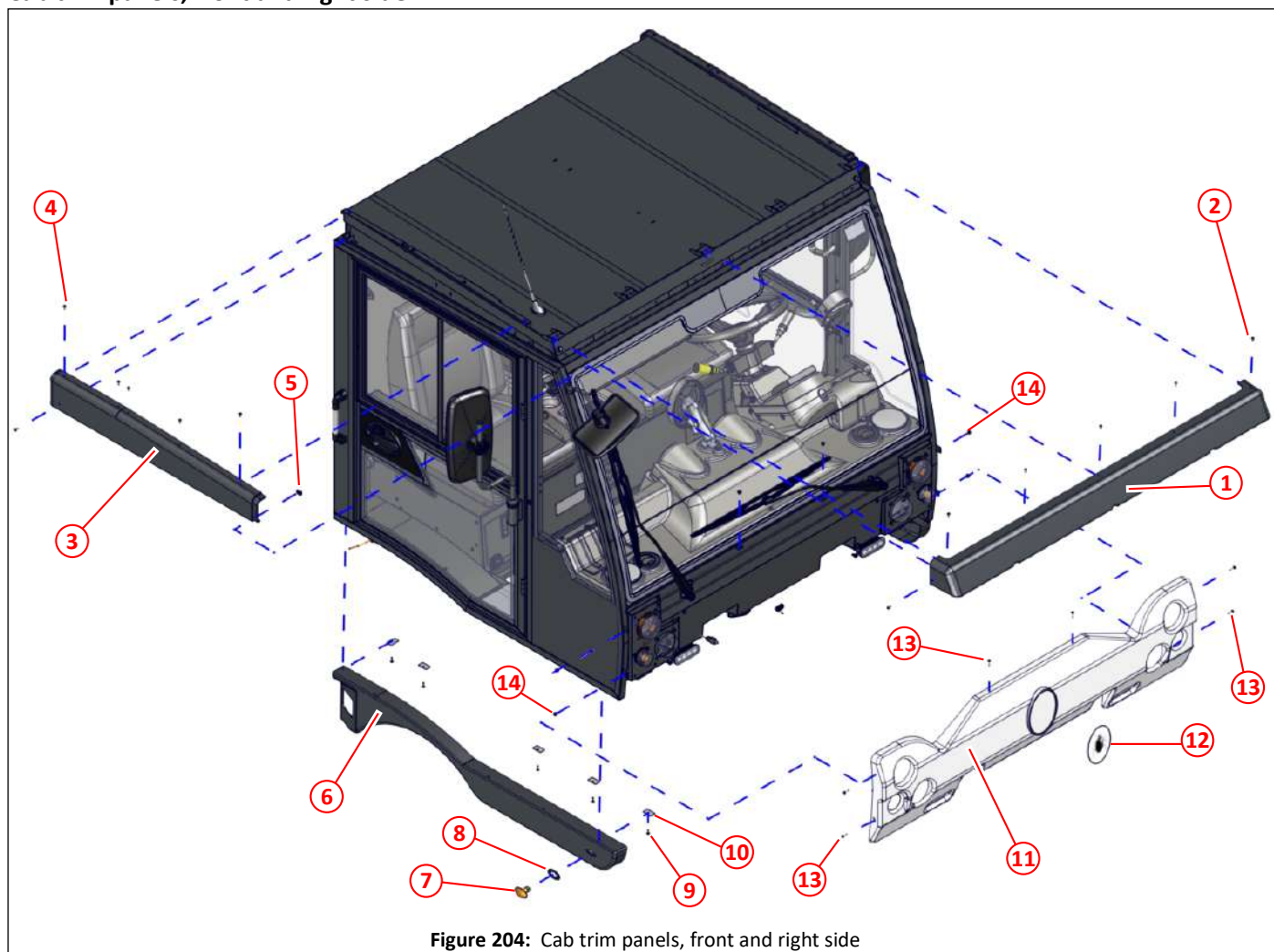


Figure 203: Cab external components, front and right side

Item	Part No	Qty	Description	
①			Front trim panels	245, 249
②			Right side trim panels	249
③			Cab roof	254
④			Right side door	250, 251
⑤			Right side quarter light	250
⑥			Right side mirror	252
⑦			Windscreen	255, 256
⑧			Wipers	255, 256
⑨			Front lights	257
⑩			Front brush mirror	252

Cab trim panels, front and right side

Figure 204: Cab trim panels, front and right side

Item	Part No	Qty	Description	
①	040267	1	Roof trim, front	
②	000476	7	Socket button head screw M5 x 12 (zinc plated)	
③	040268	1	Roof trim, left	
④	000476	6	Socket button head screw M5 x 12 (zinc plated)	
⑤	000437	1	M5 Lug nut	
⑥	040237	1	Wheel arch trim, right hand side	
⑦	034849	1	Side turn signal light	
⑧	037976	1	Mounting plate, side turn signal light	
⑨	000338	5	Socket button head screw M6 x 16	
⑩	038969	5	Reinforcing plate	
⑪	040229	1	Front trim panel	
⑫	040473	1	Scarab badge, front panel	
⑬	000384	6	Stainless steel flange head screw No. 10 x $\frac{3}{4}$ " A2	
⑭	036895	6	Screw grommet	

Cab door, glass and mirror, right side

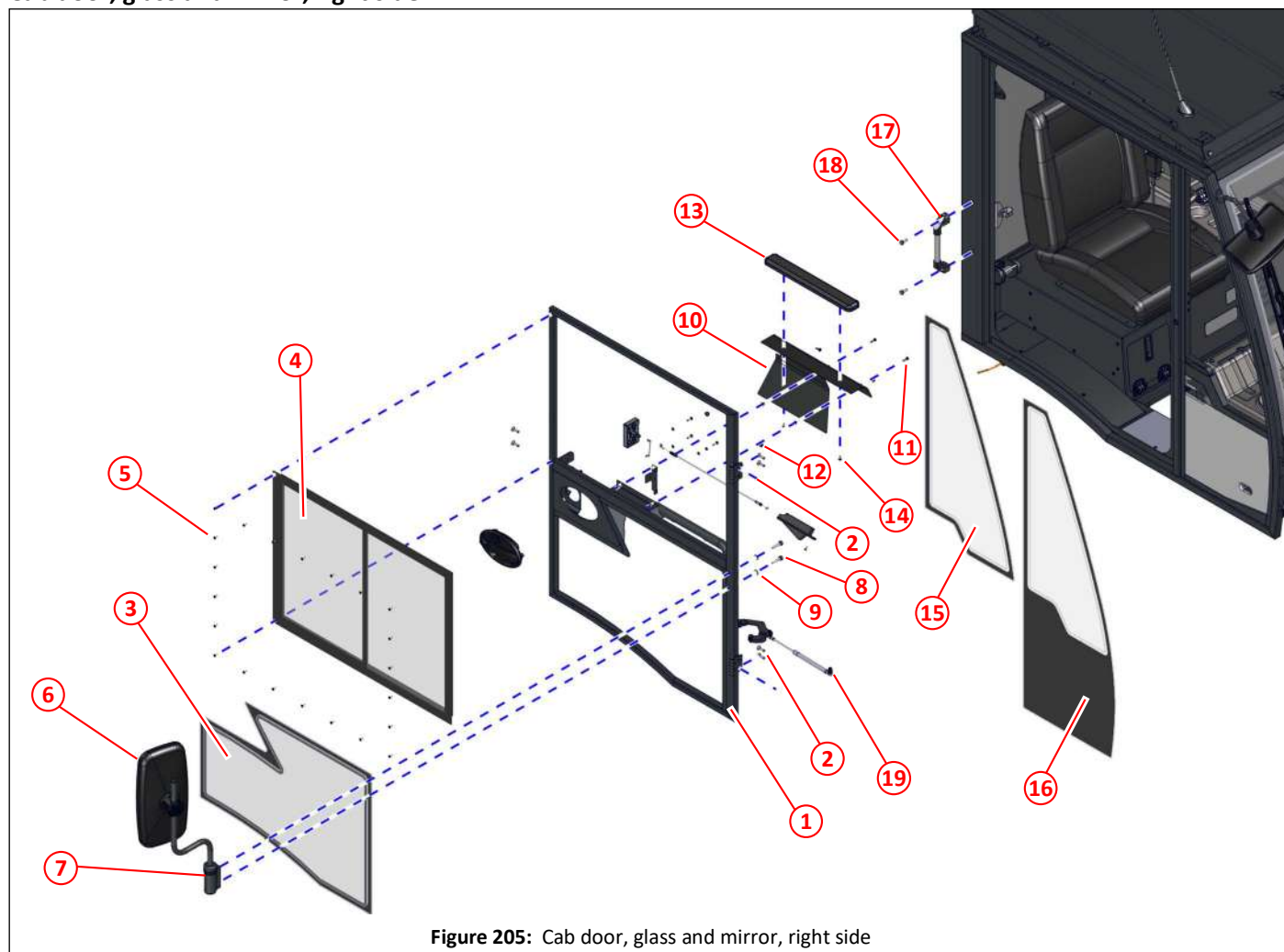


Figure 205: Cab door, glass and mirror, right side

Item	Part No	Qty	Description	
①	040241	1	Door frame, right hand side	
②	000371	4	Socket countersunk head M8 x 25 plated	
③	040239	1	Glass, lower door, right hand side	
④	036891	1	Sliding window assembly, right hand side	
⑤	000404	22	Screw flange head No. 6 x $\frac{1}{2}$ " AB pointed	
⑥	042036	1	Dual mirror, heated	
⑦	044170	1	Mirror arm, 19mm	
⑧	011014	2	Set screw M8 x 40	
⑨	011092	2	Plain washer M8	
⑩	037112	1	Right hand arm rest trim panel	
⑪	000401	4	Screw flange head No. 10 x $\frac{3}{4}$ ", black)	
⑫	036895	4	Screw grommet	
⑬	037130	1	Arm rest	
⑭	011115	2	Pan head pozidrive screw No. 10 x $\frac{1}{2}$ " AB self tapping	
⑮	040231	1	Glass, quarter light front right hand side (half length version)	
⑯	044401	1	Glass, quarter light front right hand side (full length version)	
⑰	036229	1	Exterior grab handle	
⑱	011010	2	Set screw M8 x 20	
⑲			Door stay	252
NI	036900	4m	Door seal, self adhesive	

Cab door locking, right side

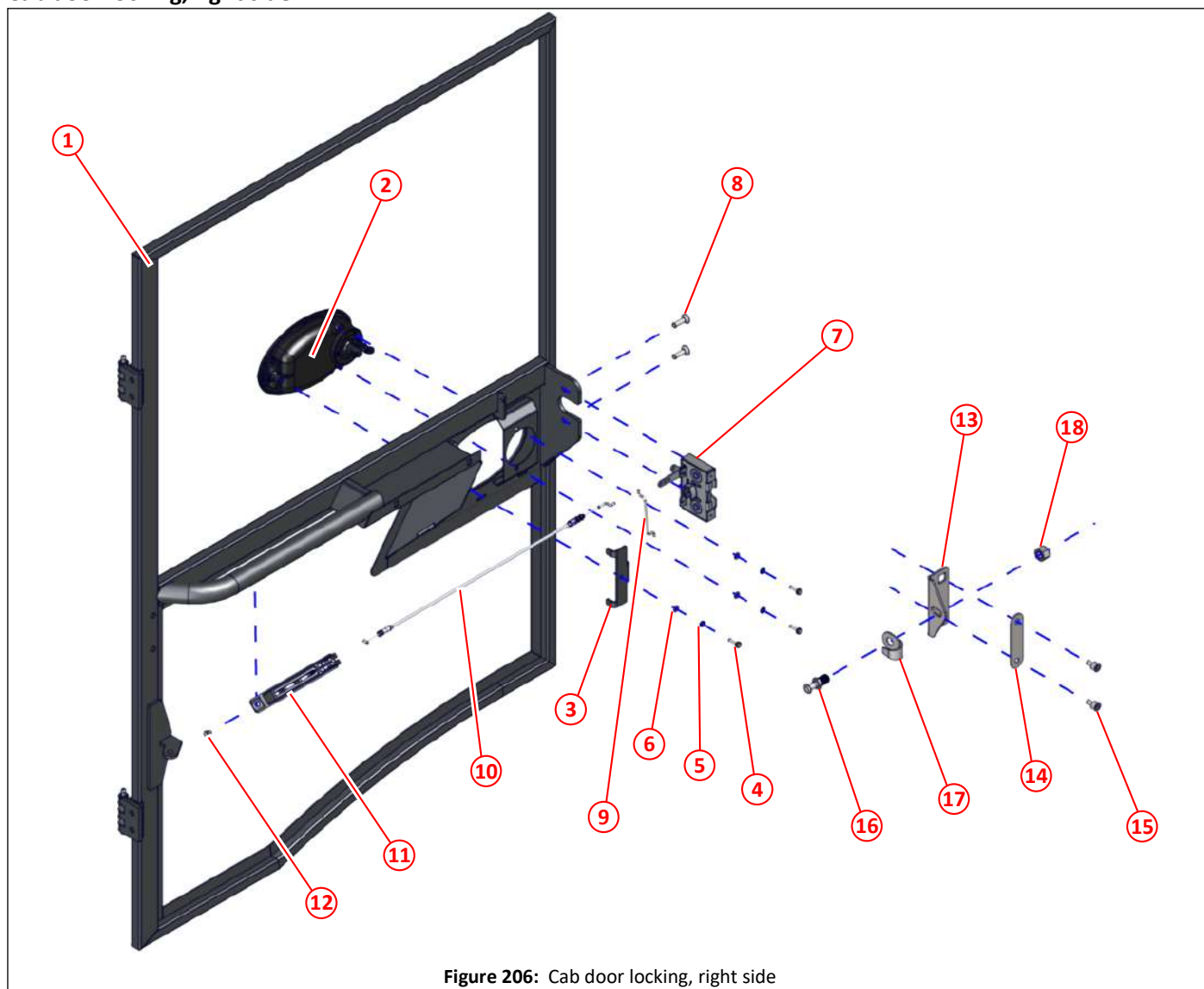
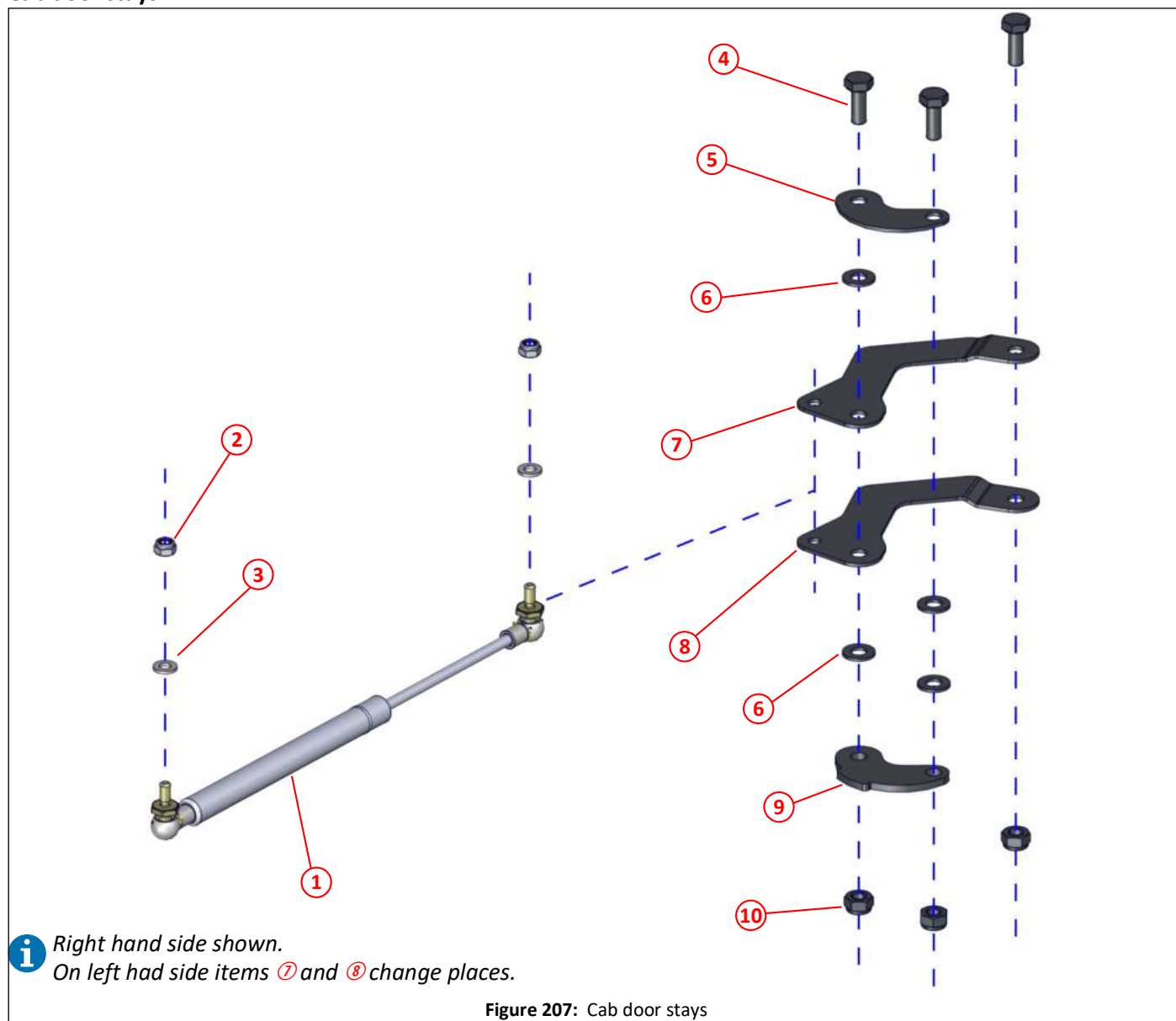


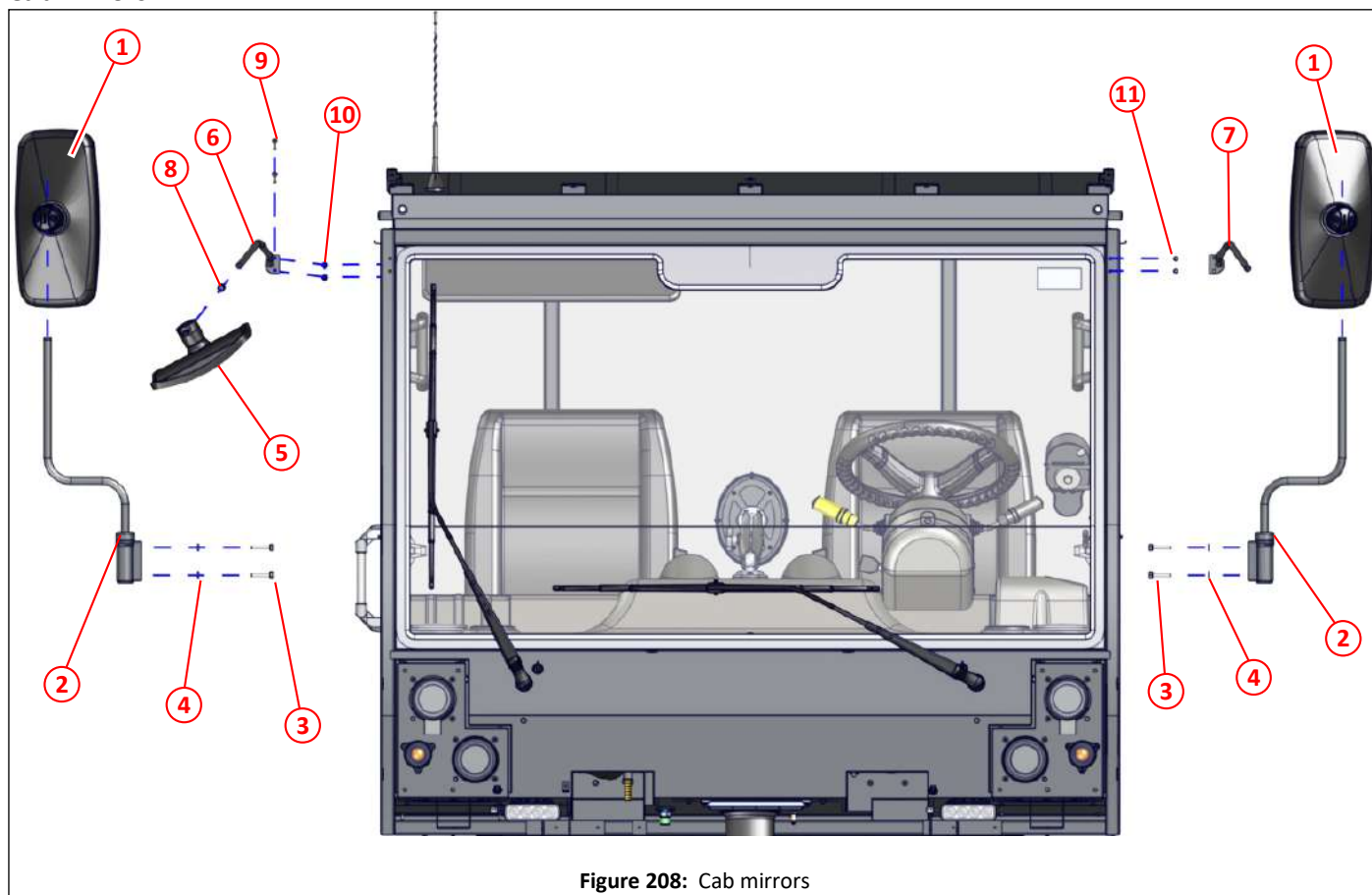
Figure 206: Cab door locking, right side

Item	Part No	Qty	Description	
①	040241	1	Door frame, right hand side	
②	037134	1	Door handle, gasket and lock, sold as a pair with keys	
③	036773	1	Stiffener, door handle	
④	000052	3	Bolt M5 x 16	
⑤	000411	3	Spring washer M5	
⑥	000410	3	Plain washer M5	
⑦	037138	1	Heavy duty anti-burst latch, right hand	
⑧	000371	2	Socket countersunk bolt M8 x 25	
⑨	037979	1	Door linkage	
⑩	037902	1	Cable assembly	
⑪	037136	1	Squeeze lever assembly	
⑫	000406	1	Socket countersunk screw M5 x 10	
⑬	037119	1	Striker pin bracket	
⑭	044604	1	Washer plate M8	
⑮	000123	2	Socket cap head screw M8 x 12	
⑯	037133	1	Striker pin	
⑰	037120	1	Striker pin cover	
⑱	000408	1	Full nut M12 x 1	

Cab door stays



Item	Part No	Qty	Description	
①	033114	1	Gas strut	
②	011071	2	M6 Nyloc nut	
③	011090	2	Plain washer M6	
④	011010	3	Set screw M8 x 20	
⑤	037126	1	Check strap 1, small	
⑥	011092	4	Plain washer M8	
⑦	042527	1	Check strap 1, large	
⑧	042528	1	Check strap 2, large	
⑨	043777	1	Check strap 2, small	
⑩	011073	3	M8 Nyloc nut	

Cab mirrors

Figure 208: Cab mirrors

Item	Part No	Qty	Description	
①	042036	2	Dual mirror, heated	
②	044170	2	Mirror arm 19mm, bolted to cab door frame	
③	011014	4	Set screw M8 x 40	
④	011092	4	Plain washer M8	
⑤	042782	1	Front brush mirror	
⑥	042695	1	Bracket, front brush mirror, right hand	
⑦	042696	1	Bracket, front brush mirror, left hand	
⑧	042697	1	Insert	
⑨	000479	2	Socket dome head screw M6 x 40, plated	
⑩	011071	2	M6 Nyloc nut	
⑪	014394	2	Grommet, blanking	
NI	042900	2	Heated mirror, wiring loom	

i Front brush mirror is mounted on the nearside of the cab only.

Cab roof

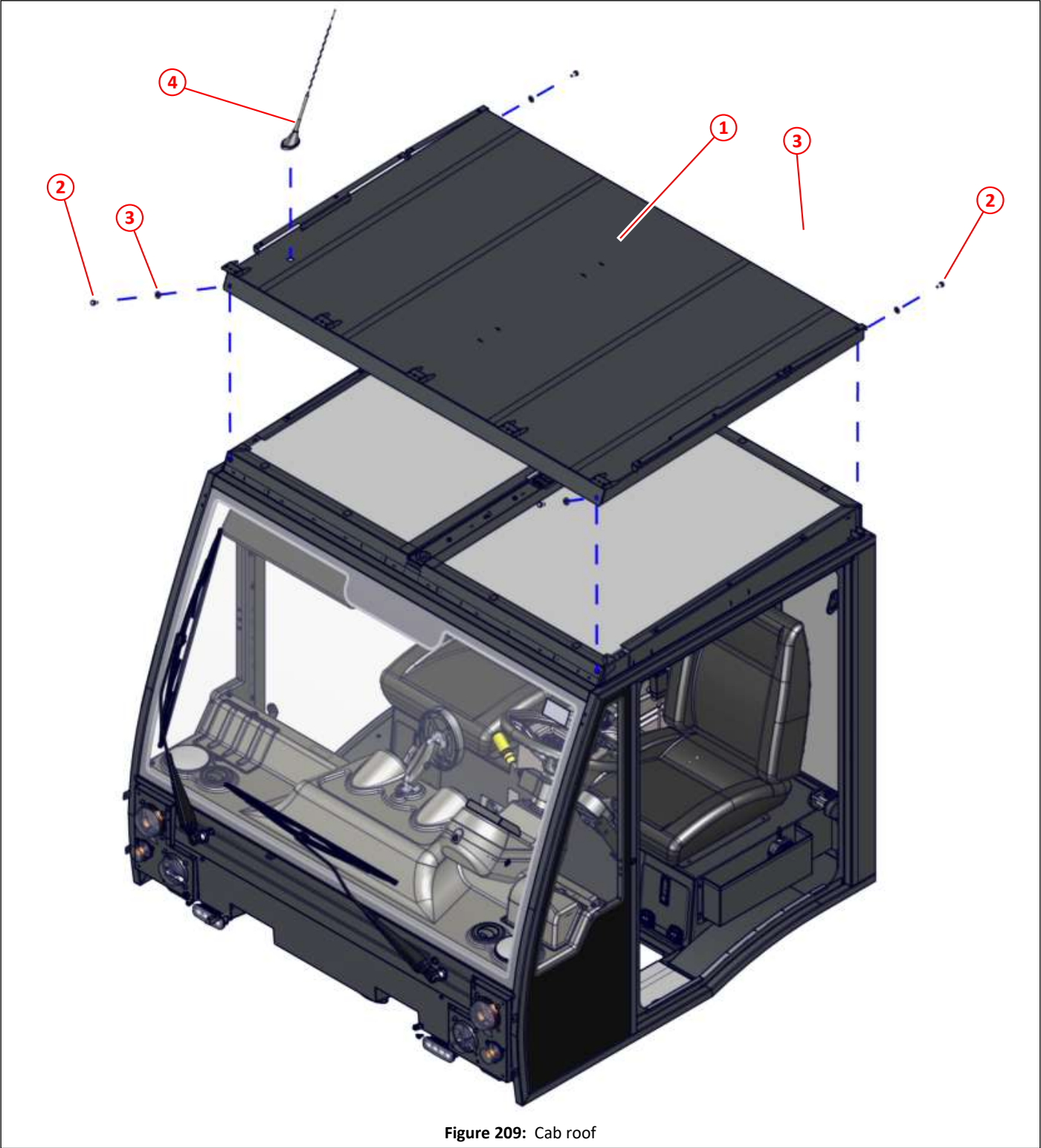


Figure 209: Cab roof

Item	Part No	Qty	Description	
①	041211	1	Cab roof	
②	000489	4	Set screw M8 x 12, stainless steel	
③	000264	4	Plain washer M8, stainless steel	
④	040838	1	Active antenna	

Windscreen and wipers, left hand drive

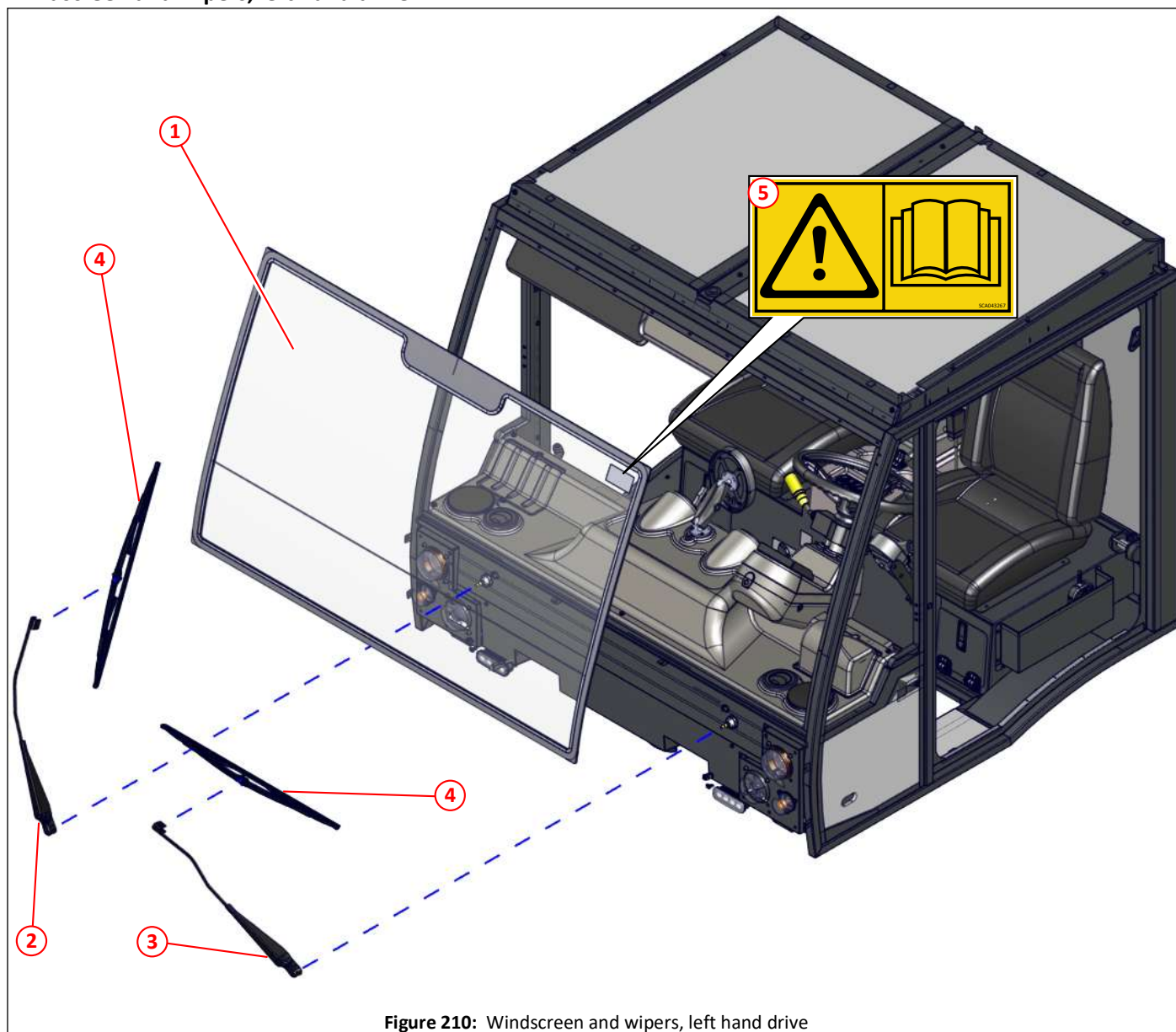


Figure 210: Windscreen and wipers, left hand drive

Item	Part No	Qty	Description	
①	040244	1	Windscreen	
②	043558	1	Wiper arm, includes washer jet fittings, right hand side	
NI	045943	1	Washer jet, for right hand side	
③	043557	1	Wiper arm, includes washer jet fittings, left hand side	
NI	045944	1	Washer jet, for left hand side	
④	043617	2	Wiper blade	
⑤	043267	1	Label, read the manual, on inside of windscreen	404

i For details on the wiper linkage etc. please see page 286.

Windscreen and wipers, right hand drive

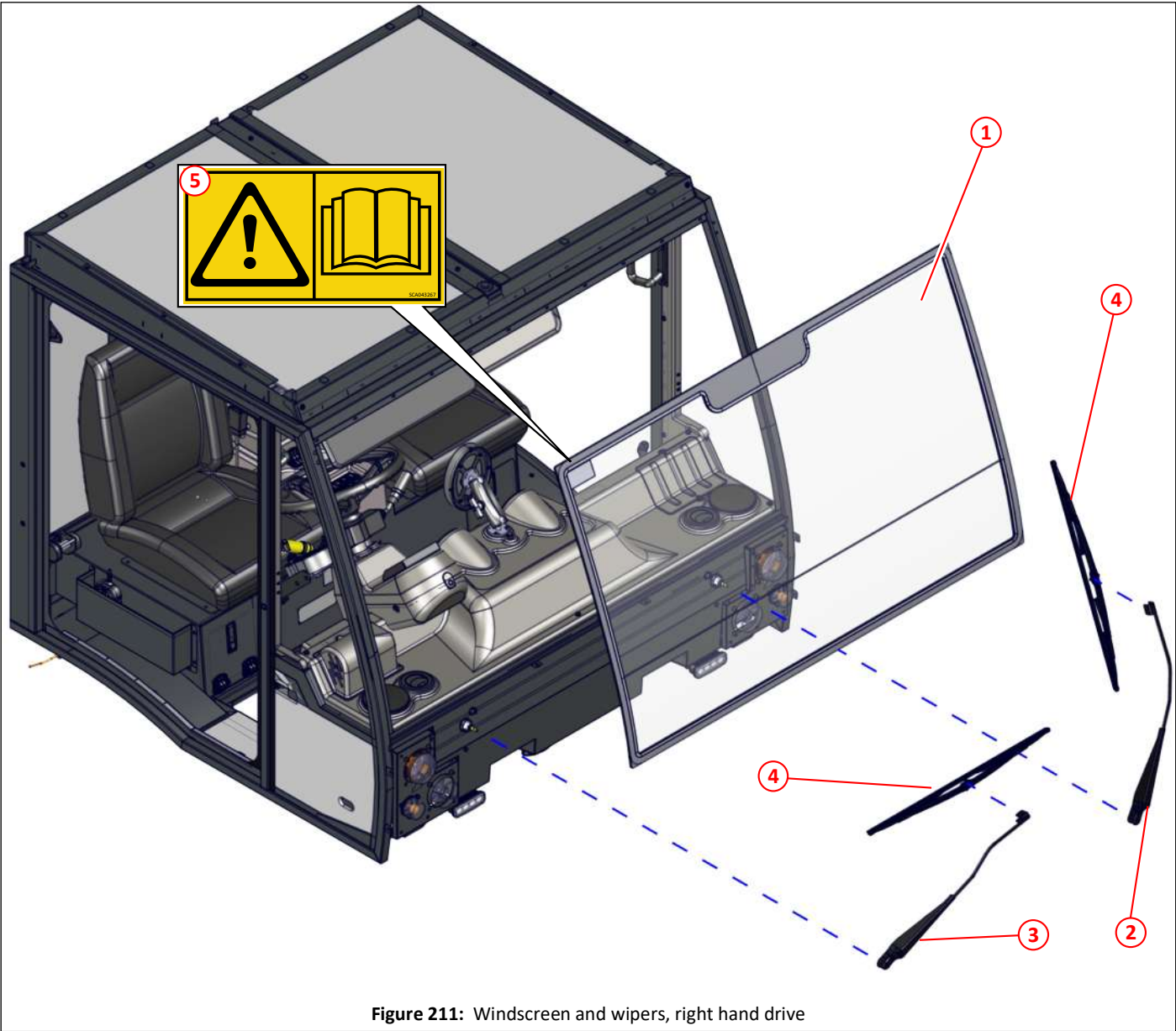


Figure 211: Windscreen and wipers, right hand drive

Item	Part No	Qty	Description	
①	040244	1	Windscreen	
②	043557	1	Wiper arm, includes washer jet fittings, left hand side	
NI	045944	1	Washer jet, for left hand side	
③	043558	1	Wiper arm, includes washer jet fittings, right hand side	
NI	045943	1	Washer jet, for right hand side	
④	043617	2	Wiper blade	
⑤	043267	1	Label, read the manual, on inside of windscreen	404

 For details on the wiper linkage etc. please see page 286.

Front lights

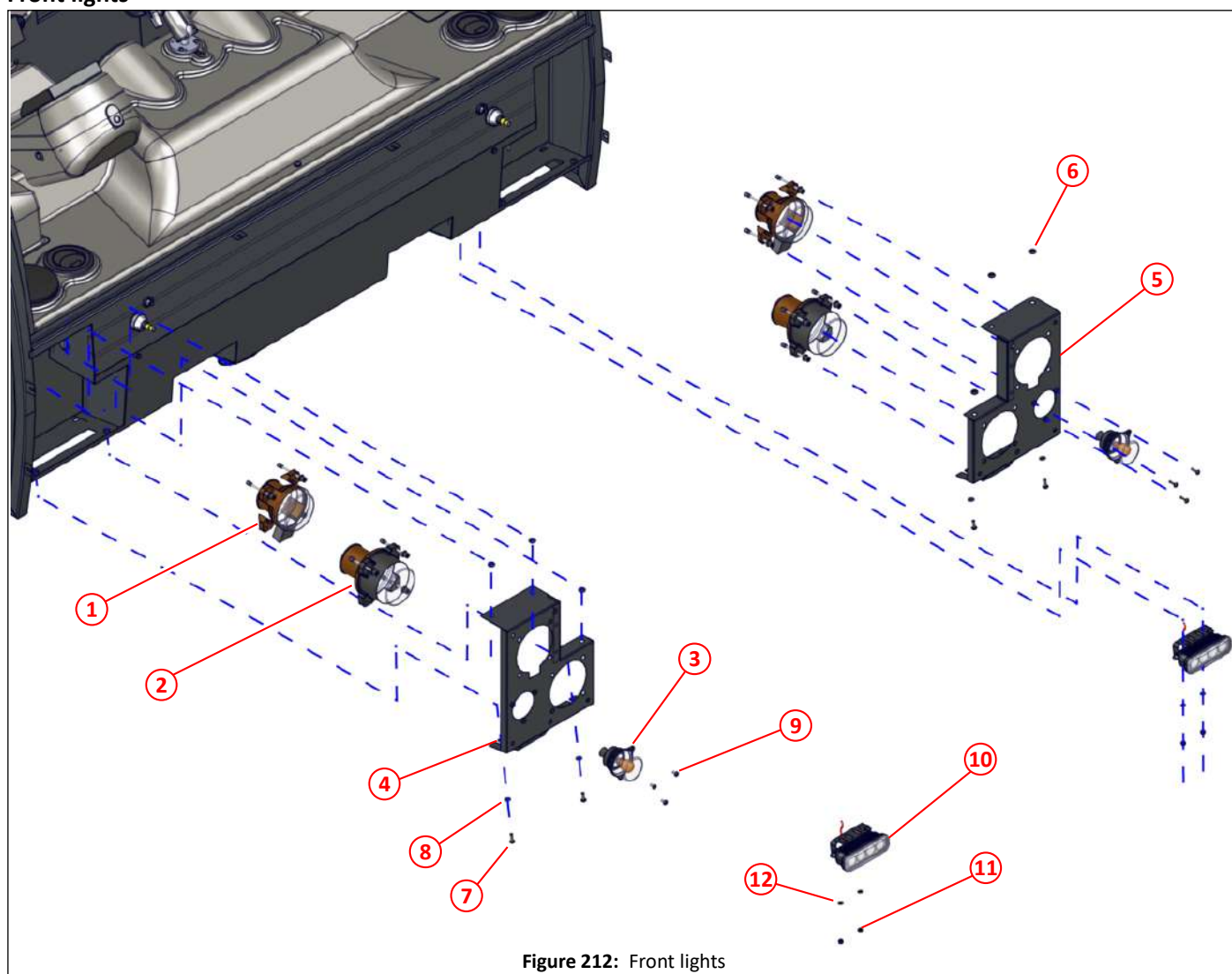


Figure 212: Front lights

Item	Part No	Qty	Description	
①	034847	2	Main beam and sidelight	
②	034848	2	Dipped beam headlight	
③	034850	2	Front turn signal	
④	044833	1	Headlight box right hand side	
⑤	044832	1	Headlight box left hand side	
⑥	037972	6	Grommet	
⑦	000338	4	Socket button head screw M6 x 16	
⑧	011090	4	Plain washer M6	
⑨	000409	6	Pan head pozidrive screw M5 x 8	
⑩	038854	2	LED daytime running lights	
⑪	000155	4	Nyloc nut M5	
⑫	000410	4	Plain washer M5	

i The dipped beam headlight is supplied for left hand drive machines. To convert for use on right hand drive machines following instructions below:

1. View the assembly from the bulb insertion face.
2. Remove the screw that is not in a slot.
3. Loosen the remaining pair but do not remove.
4. Rotate the assembly anti-clockwise.
5. Tighten the two loosened screws in the new position.
6. Replace the removed screw, into the hole that lines up with moulding and tighten.

Cab beacons

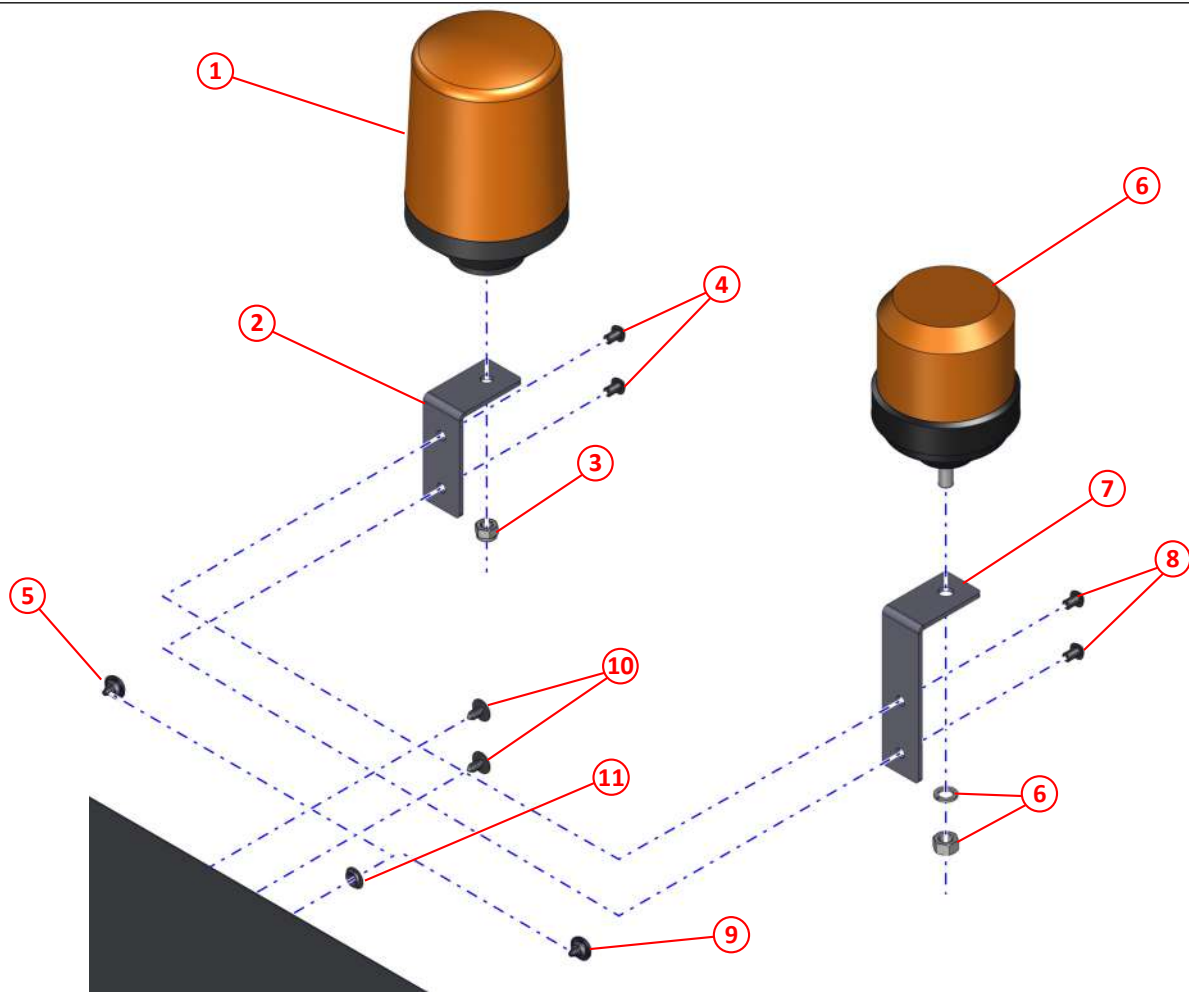


Figure 213: Cab beacons

Item	Part No	Qty	Description	
①	010304	1	Beacon 12v, standard	241
②	042247	1	Bracket, cab, standard beacon	
③	011075	1	Nyloc nut M10	
④	000405	2	Socket button head screw M8 x 12, black	
⑤	043592	1	Grommet, M12, IP67 sealing	
⑥	044694	1	Beacon, LED, includes nut and washer	241
⑦	045221	1	Bracket, cab, LED beacon	
⑧	000405	2	Socket button head screw M8 x 12, black	
⑨	043592	1	Grommet, M12, IP67 sealing	
⑩	043188	2	Fir tree button, ø6.4	
⑪	014187	1	Grommet, blanking	

Cab tilt latch and safety prop

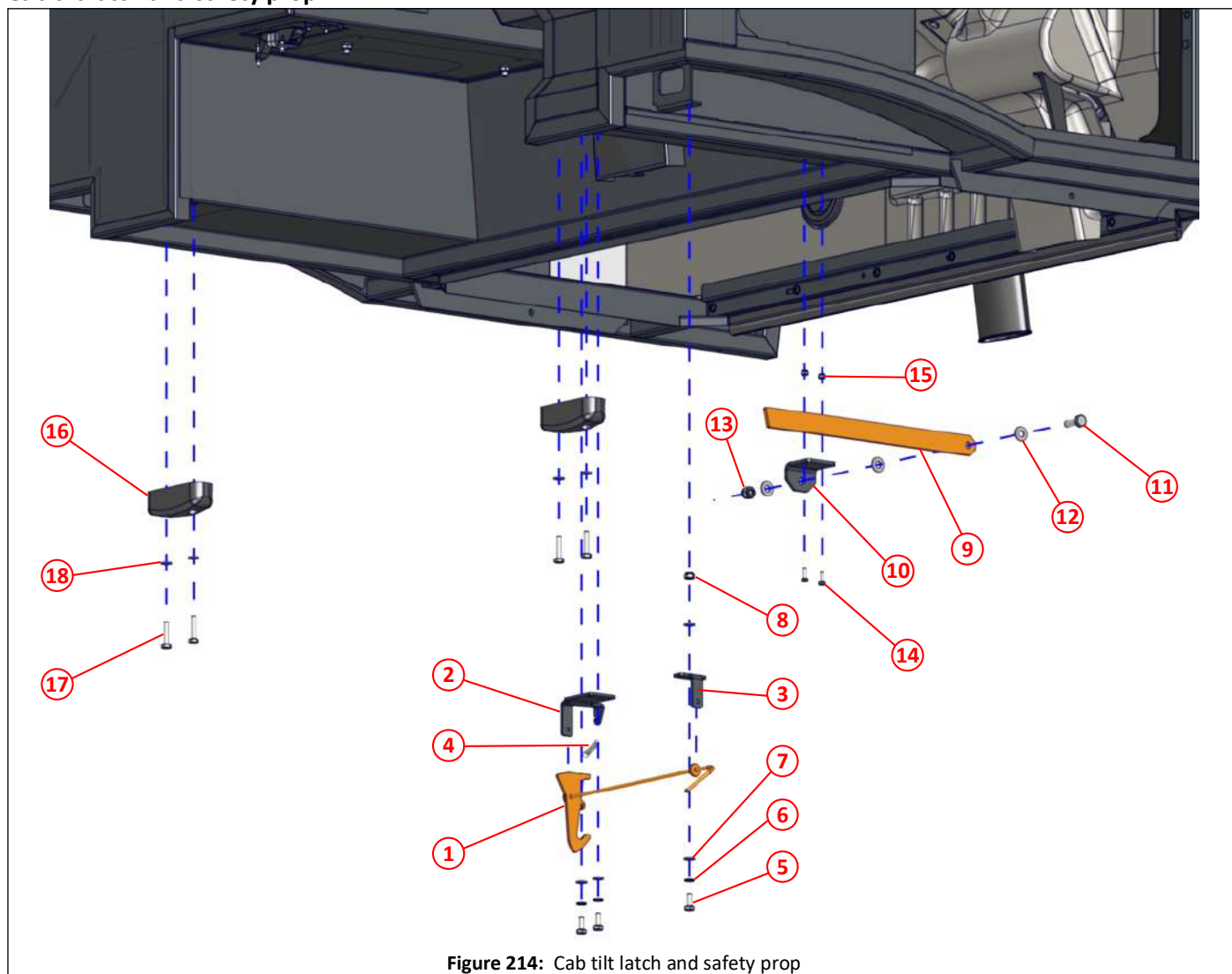


Figure 214: Cab tilt latch and safety prop

Item	Part No	Qty	Description	
①	044020	1	Cab latch	
②	044021	1	Bracket 1, cab latch	
③	044022	1	Bracket 2, cab latch	
④	044024	1	Cab latch spring	
⑤	011010	3	Set screw M8 x 20	
⑥	011093	3	Spring washer M8	
⑦	011092	4	Plain washer M8	
⑧	011073	1	Nyloc nut M8	
⑨	043242	1	Cab safety prop	
⑩	014351	1	Bracket, cab safety prop	
⑪	011032	1	Set screw M10 x 30	
⑫	011094	3	Plain washer M10	
⑬	011075	1	Nyloc Nut M10	
⑭	000250	2	Stainless steel set screw M6 x 16	
⑮	000253	2	Stainless steel M6 Nyloc nut	
⑯	013466	2	Rubber buffer	
⑰	011013	4	Set screw M8 x 35	
⑱	011092	4	Plain washer M8	
	044019	1	Cab latch assembly complete, items ① to ⑦	

Cab tilt pivots and gas struts

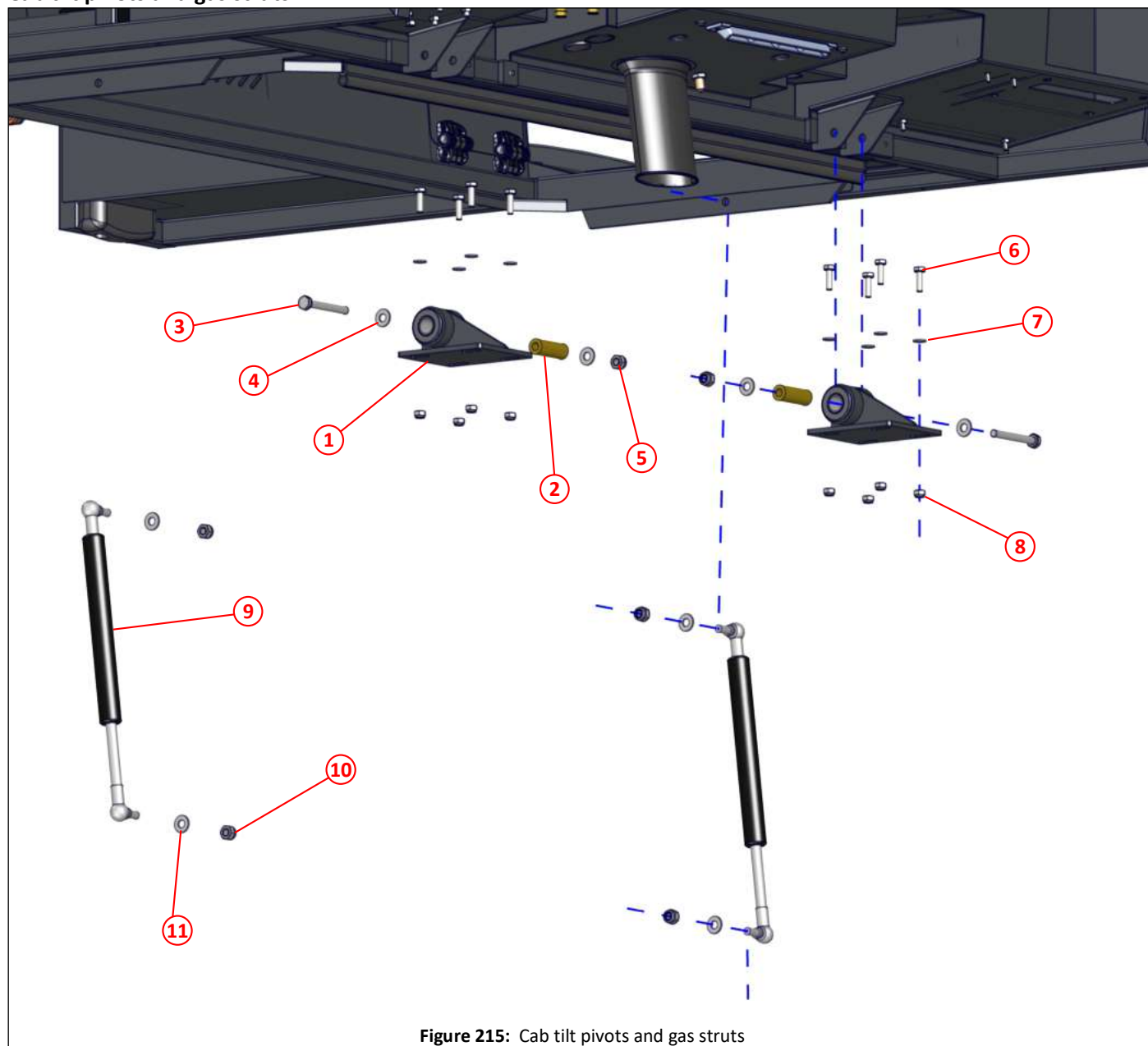


Figure 215: Cab tilt pivots and gas struts

Item	Part No	Qty	Description	
①	028031	2	Cab tilt pivot bracket	
②	027732	2	Brass bush	
③	011038	2	Bolt M10 x 80	
④	011094	4	Plain washer M10	
⑤	011075	2	Nyloc nut M10	
⑥	011011	8	Set screw M8 x 25	
⑦	011092	8	Plain washer M8	
⑧	011073	8	Nyloc nut M8	
⑨	043196	2	Gas strut, cab tilt	
⑩	011075	4	Nyloc nut M10	
⑪	011094	4	Plain washer M10	

Seats and seatbelts

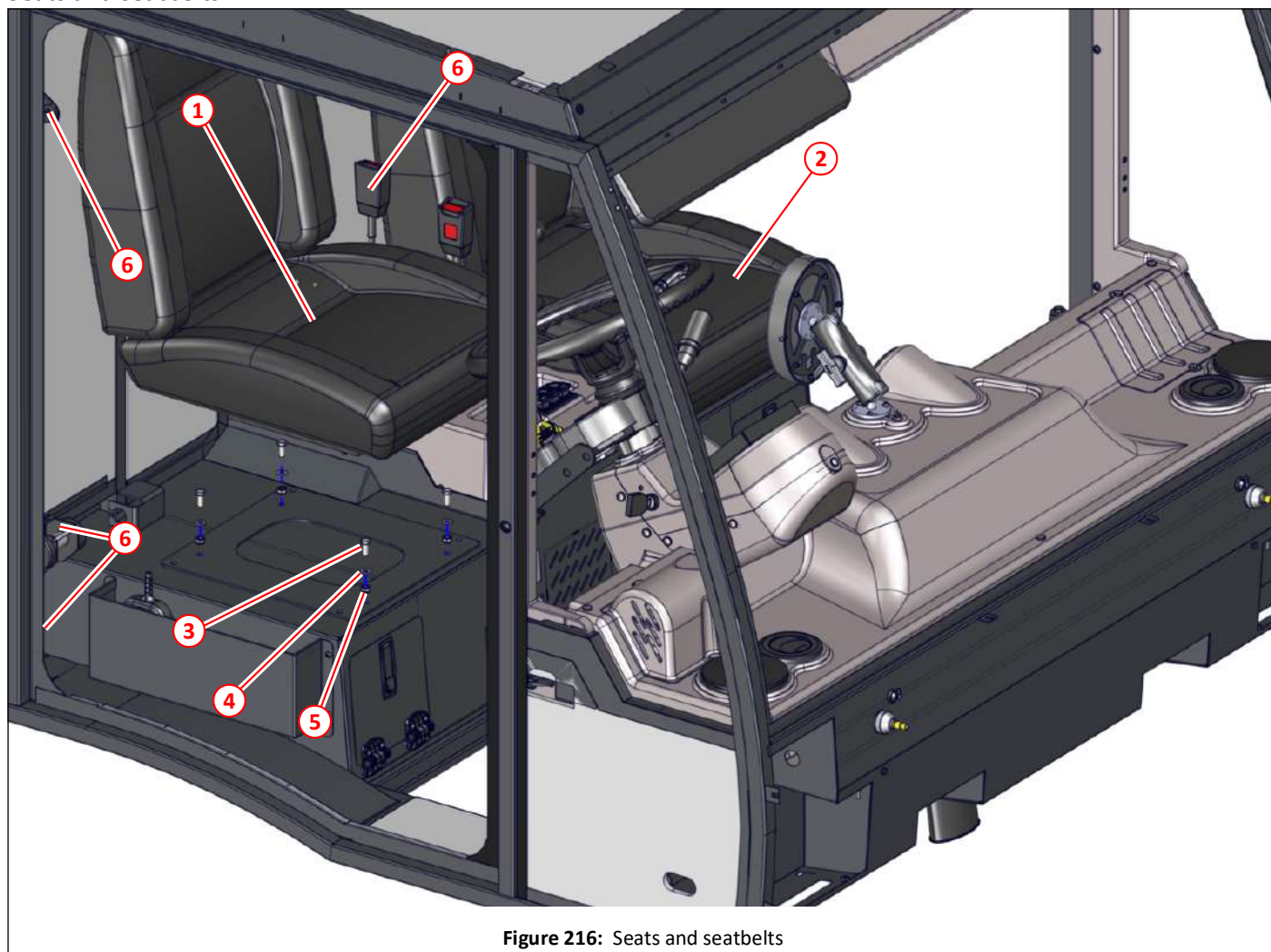


Figure 216: Seats and seatbelts

Item	Part No	Qty	Description	
①	042823	1	Seat (RH)	
②	042822	1	Seat (LH)	
③	011010	8	Set screw M8 x 20	
④	011092	8	Plain washer M8	
⑤	011073	8	Nyloc nut M8	
⑥	042620	2	Seatbelt, complete, with fixing	

Centre console, heated seat and mirror switches

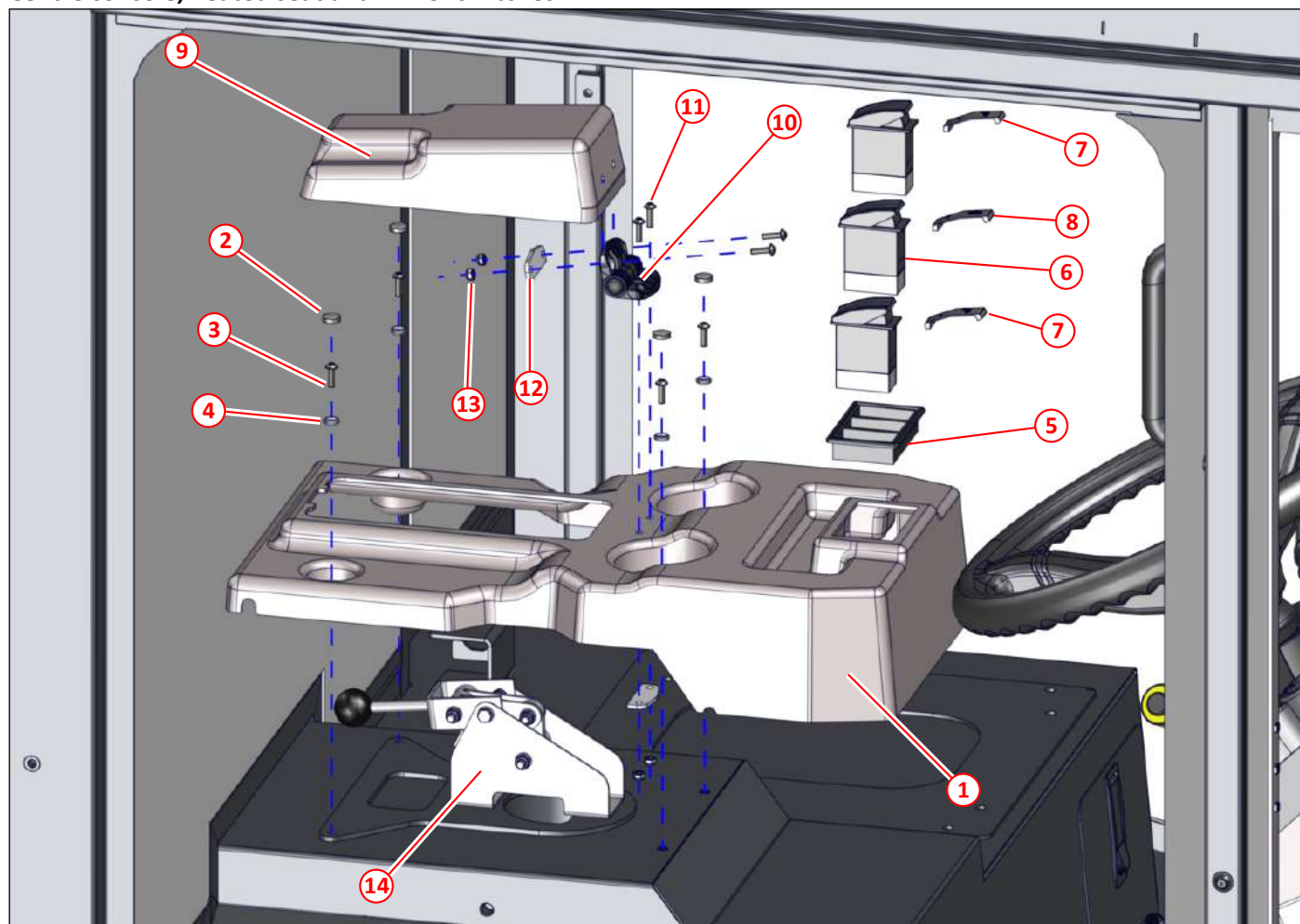
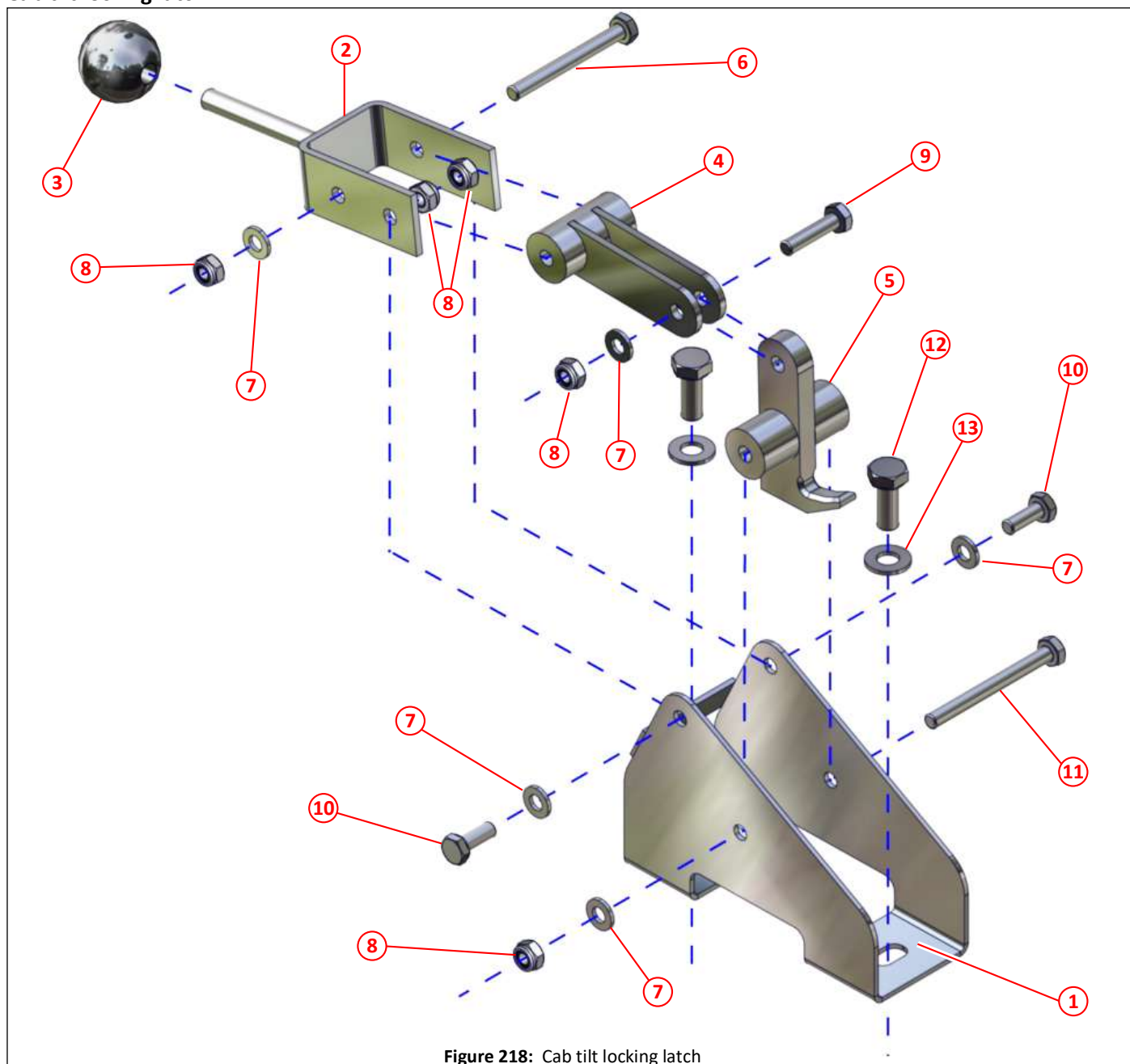


Figure 217: Centre console, heated seat and mirror switches

Item	Part No	Qty	Description	
①	040251	1	Centre console	
②	044548	4	Cover cap	
③	000346	4	Socket button head screw M5 x 16, black	
④	044549	4	Washer, cover cap	
⑤	013914	1	Switch housing, 3-way	
⑥	031406	3	On/Off switch	
⑦	042150	2	Switch insert, heated seat	
⑧	042151	1	Switch insert, heated mirrors	
⑨	042196	1	Cover, cab tilt locking latch	
⑩	042200	1	Hinge	
⑪	000346	4	Socket button head screw M5 x 16, black	
⑫	028320	2	Packer, hinge	
⑬	000155	4	Nyloc nut m5	
⑭	035775	1	Cab tilt locking latch assembly	263

Cab tilt locking latch

Figure 218: Cab tilt locking latch

Item	Part No	Qty	Description	
①	048350	1	Frame, cab tilt locking	
②	013867	1	handle, cab tilt locking	
③	013865	1	Knob, cab tilt locking	
④	013869	1	link arm, cab tilt locking	
⑤	013868	1	Hook, cab tilt locking	
⑥	000018	1	Set screw M6 x55	
⑦	011090	5	Plain washer M6	
⑧	011071	5	Nyloc nut M6	
⑨	011087	1	Set screw M6 x 25	
⑩	011001	2	Set screw M6 x 16	
⑪	000011	1	Set screw M6 x 60	
⑫	011010	2	Set screw M8 x 20	
⑬	011092	2	Plain washer M8	
⑭	035775	1	Cab tilt locking latch assembly, complete items ① to ⑪	

Under seat lockers and storage areas

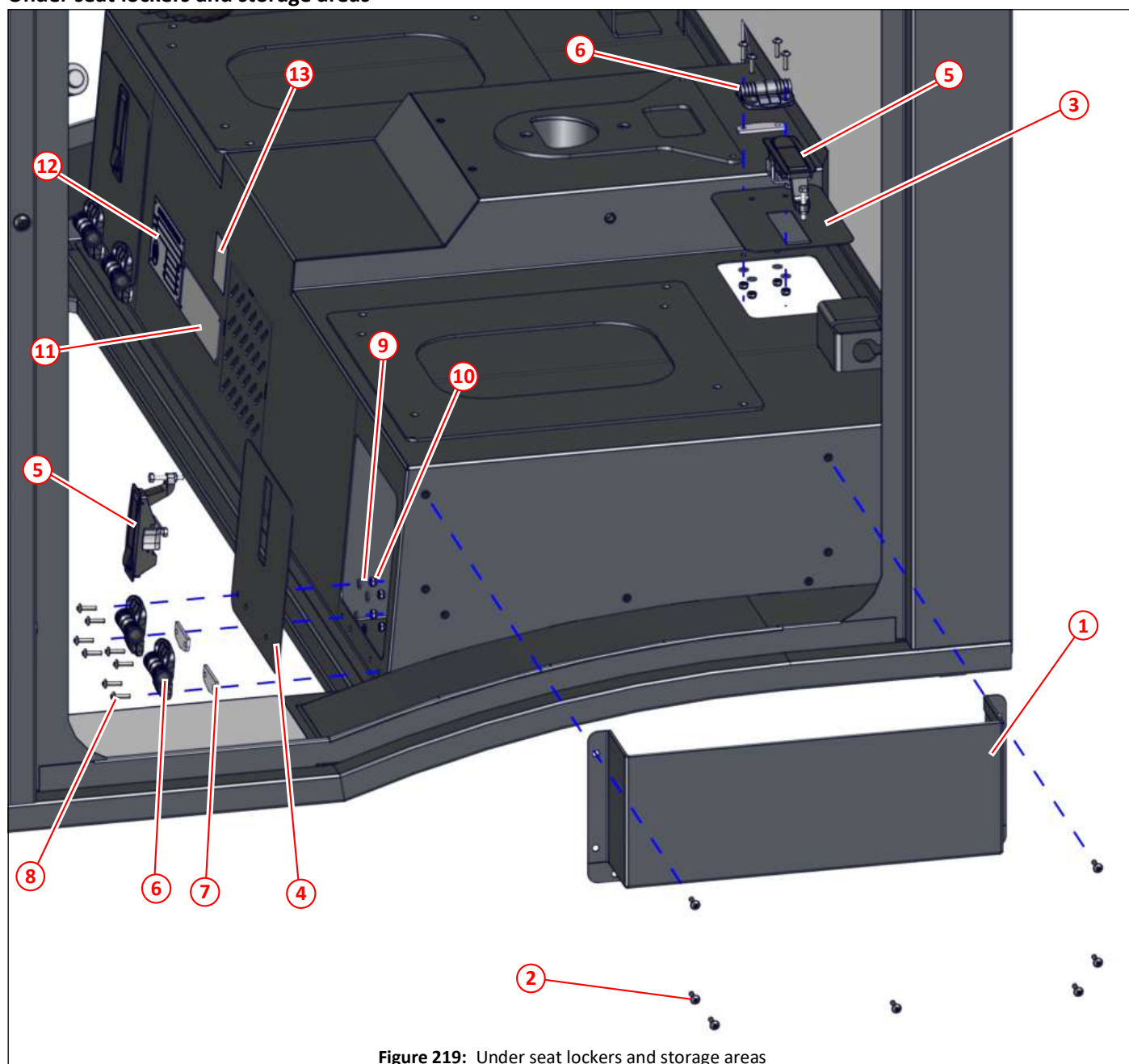


Figure 219: Under seat lockers and storage areas

Item	Part No	Qty	Description	
①	043835	1	Hopper controller storage	
②	000346	7	Socket button head screw M5 x 16, black	
③	042524	1	Door, dip stick	
④	040248	2	Door, storage	
⑤	035662	3	Latch	
⑥	027193	5	Hinge	
⑦	028320	5	Packer	
⑧	000346	20	Socket button head screw M5 x 16, black	
⑨	000410	20	Plain washer M5	
⑩	000155	20	Nyloc nut M5	
⑪	021716	1	Serial number and CE plate	
⑫	013939	1	Vehicle Identification Number (VIN) plate	
⑬	027773	1	Label, sound level 104dB	

Lower dash panel fasteners

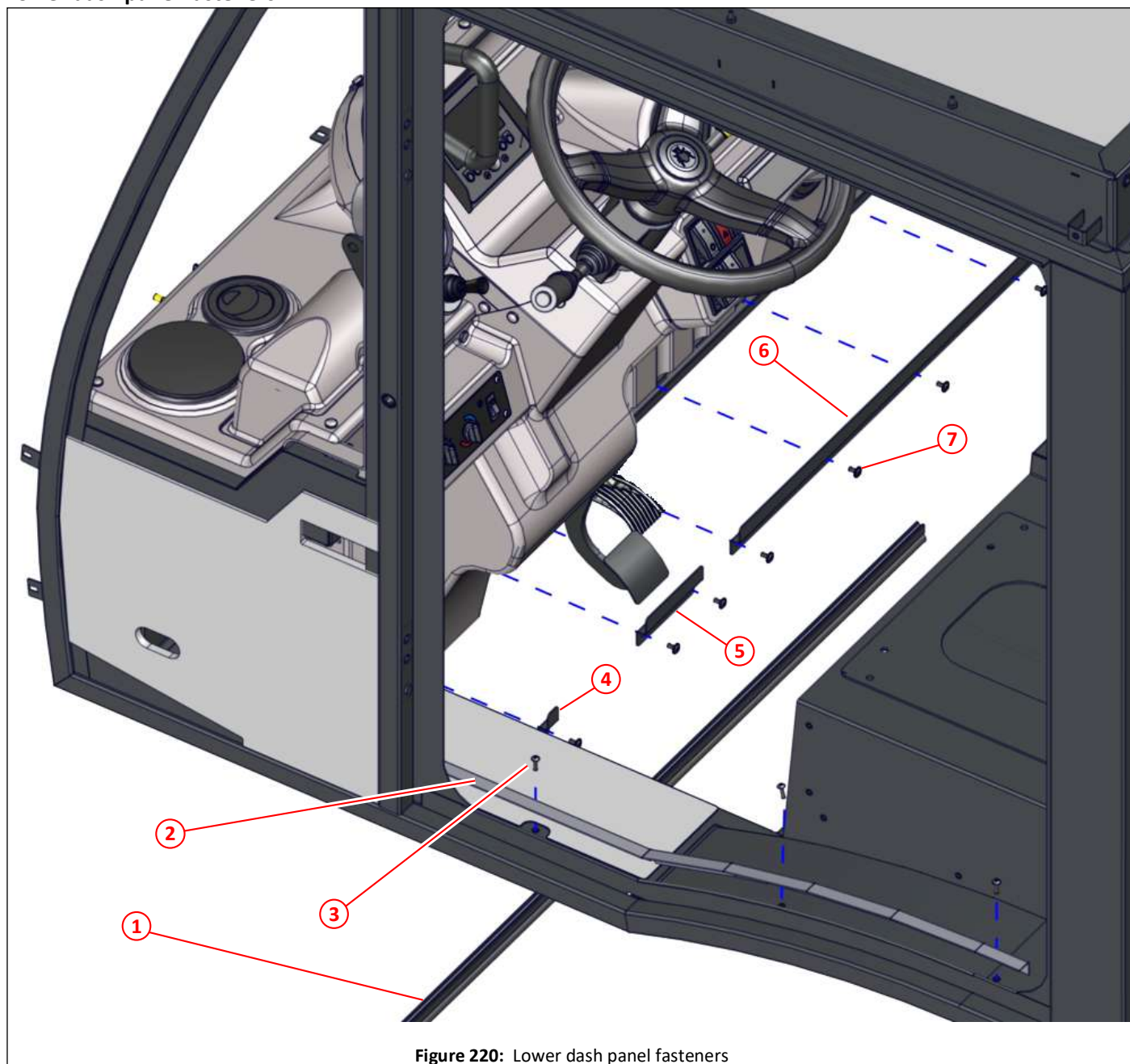


Figure 220: Lower dash panel fasteners

Item	Part No	Qty	Description	
①	044285	As req	Cab seal DX70 1.6-3.0mm	
②	042252*	1	Guard, hopper controller cable, left hand side	
NI	042253*	1	Guard, hopper controller cable, right hand side	
③	000346	3	Socket button head screw M5 x 16, black	
④	040276	1	Fastener, lower dash trim, very short	
⑤	042521	1	Fastener, lower dash trim, short	
⑥	040275	1	Fastener, lower dash trim, long	
⑦	000416	8	Flange button head screw M6 x 10, black	

* Only required on drivers side of the vehicle

Fuse panel cover and document net, left hand drive

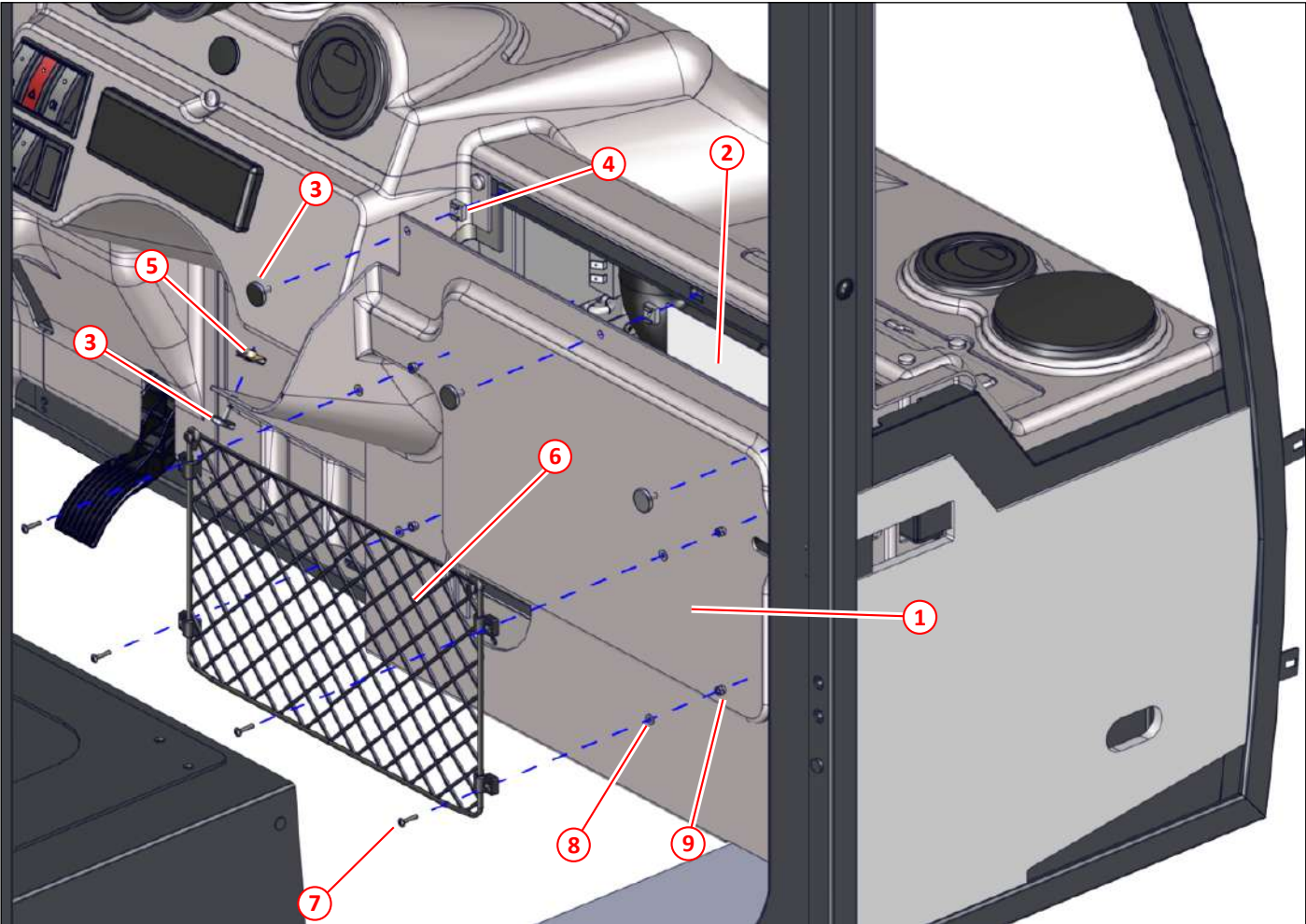


Figure 221: Fuse panel cover and document net, left hand drive

Item	Part No	Qty	Description	
①	040235	1	Fuse panel cover, front right lower dash trim, left hand drive	
②	043478	1	Fuse box label, left hand drive, fixed on reverse of cover	
③	044397	4	Knurled thumbscrew M5	
④	044413	3	Cage nut 0.7-1.6, M5	
⑤	000437	1	Kug nut M5	
⑥	043263	1	Document net	
⑦	000342	4	Socket button head screw, M4 x16, black	
⑧	000309	4	Plain washer M4	
⑨	000132	4	Nyloc nut M4	

Fuse panel cover and document net, right hand drive

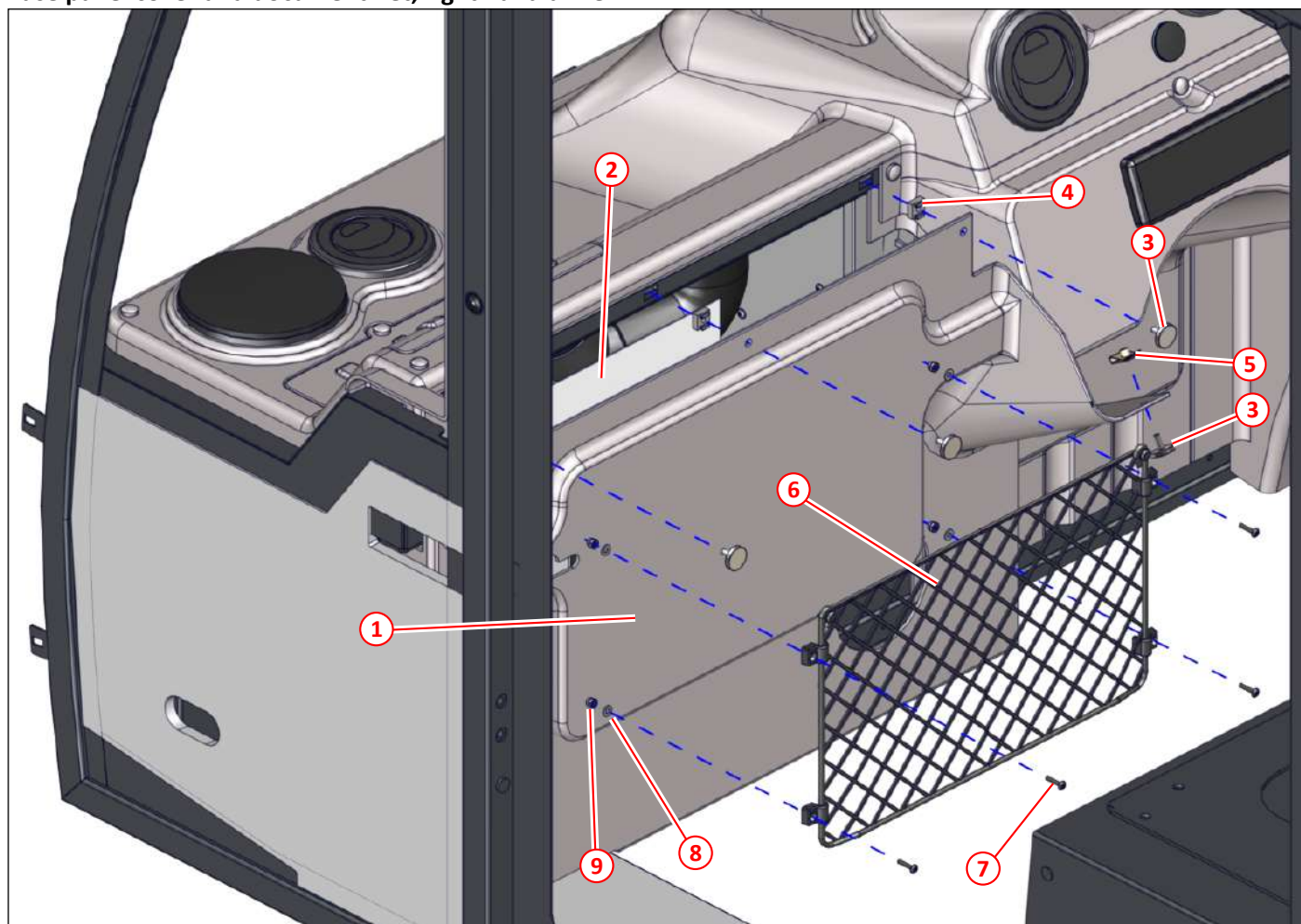


Figure 222: Fuse panel cover and document net, left hand drive

Item	Part No	Qty	Description	
①	040264	1	Fuse panel cover, front left lower dash trim, right hand drive	
②	043479	1	Fuse box label, right hand drive, fixed on reverse of cover	
③	044397	4	Knurled thumbscrew M5	
④	044413	3	Cage nut 0.7-1.6, M5	
⑤	000437	1	Lug nut M5	
⑥	043263	1	Document net	
⑦	000342	4	Socket button head screw, M4 x16, black	
⑧	000309	4	Plain washer M4	
⑨	000132	4	Nyloc nut M4	

Central lower dash trim, left hand drive

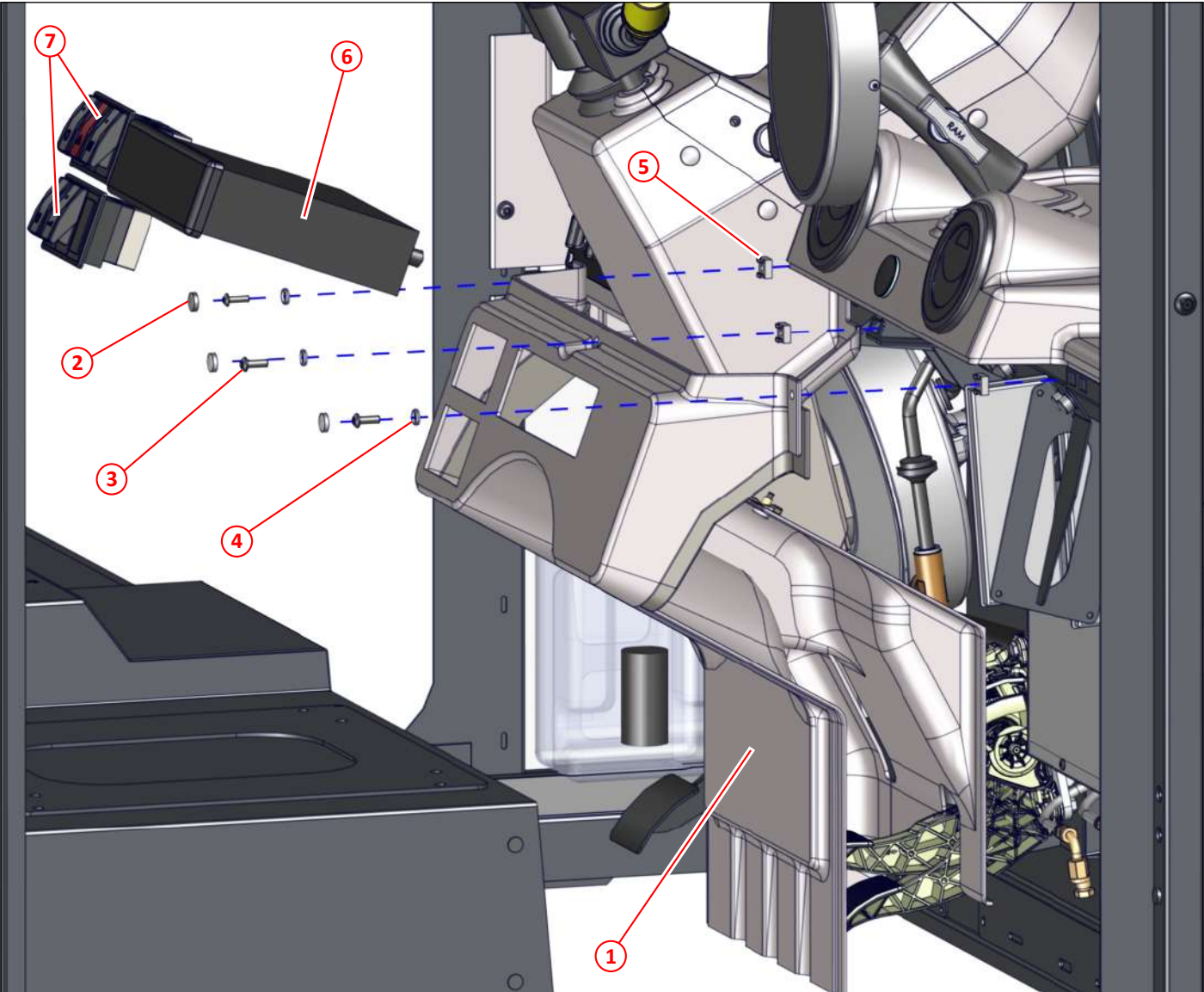


Figure 223: Central lower dash trim, left hand drive

Item	Part No	Qty	Description	
①	040233	1	Central lower dash trim, left hand drive	
②	044548	3	Cover cap	
③	000338	3	Socket button head screw M6 x 16	
④	044549	3	Washer, cover cap	
⑤	043900	3	Cage nut 0.7-1.6, M6	
⑥	043378	1	Radio, with Parrot bluetooth, iPod and iPhone connection	
⑦			Switch panels	270

Central lower dash trim, right hand drive

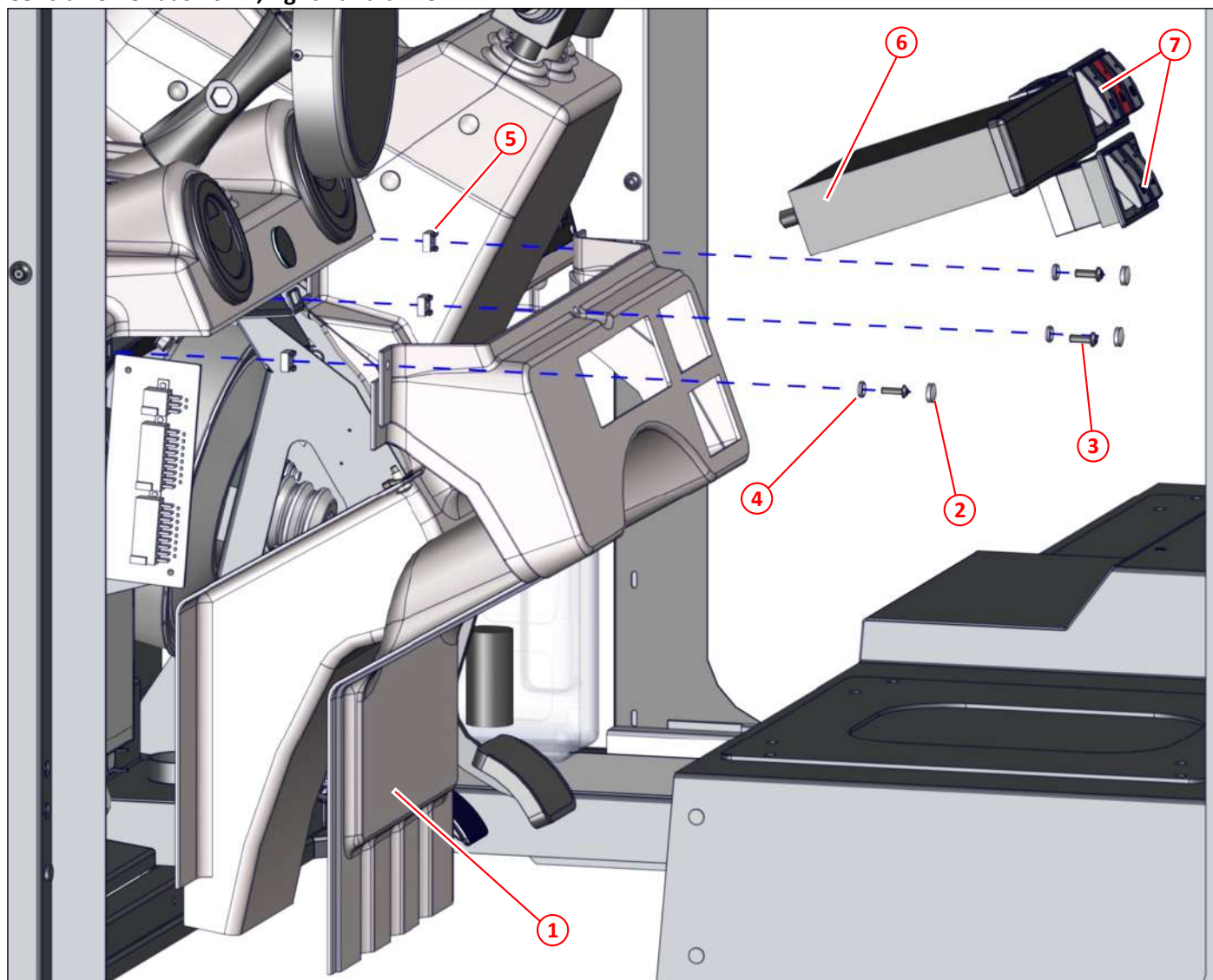


Figure 224: Central lower dash trim, right hand drive

Item	Part No	Qty	Description	
①	040265	1	Central lower dash trim, right hand drive	
②	044548	3	Cover cap	
③	000338	3	Socket button head screw M6 x 16	
④	044549	3	Washer, cover cap	
⑤	043900	3	Cage nut 0.7-1.6, M6	
⑥	043378	1	Radio, with Parrot bluetooth, iPod and iPhone connection	
⑦			Switch panels	270

Central dash, switch panels

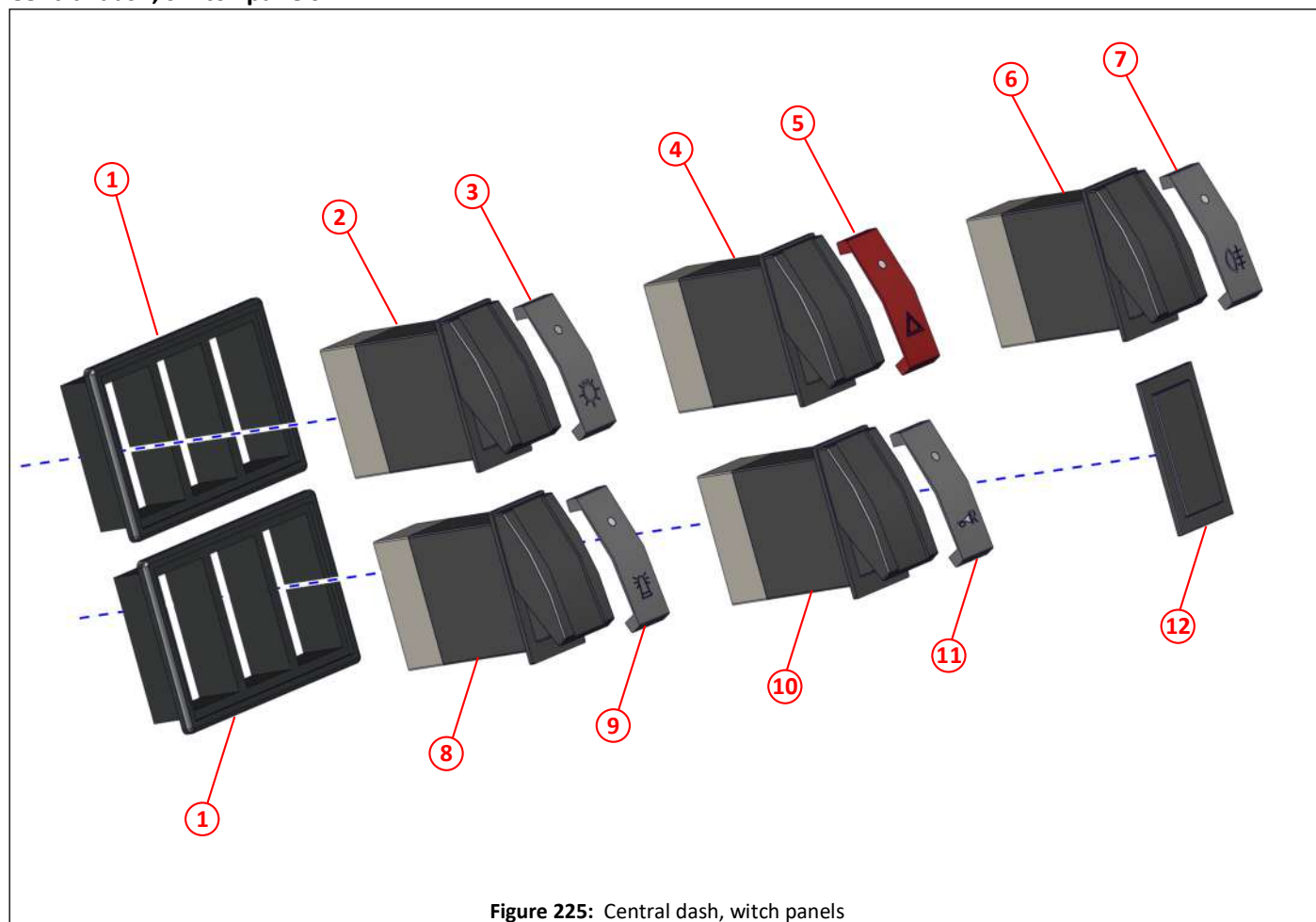


Figure 225: Central dash, witch panels

Item	Part No	Qty	Description	
①	013914	2	Switch housing 3-way	
②	031407	1	Vehicle light switch OFF/ON/ON	240
③	039188	1	Vehicle light switch insert for item ②	
④	031408	1	Hazard switch	240
⑤	031412	1	Hazard switch insert for item ④	
⑥	038997	1	Fog light switch	240
⑦	031410	1	Fog light switch insert for item ⑥	
⑧	031406	1	Beacon switch	240
⑨	031411	1	Beacon switch insert for item ⑧	
⑩	038856	1	Reverse bleeper switch	240
⑪	038857	1	Reverse bleeper switch insert for item ⑩	
⑫	013259	1	Blanking cover	

Left side lower dash trim, left hand drive

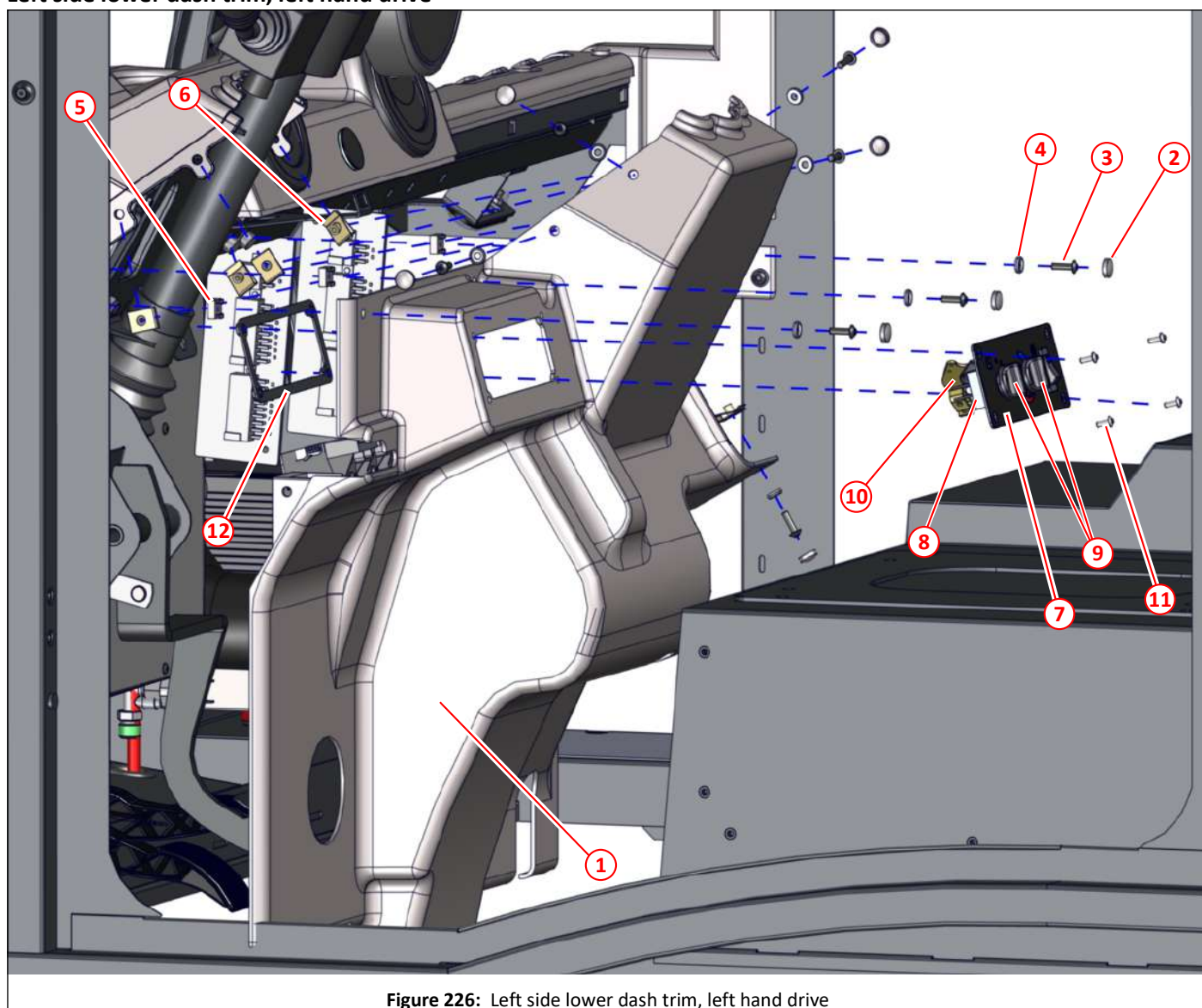


Figure 226: Left side lower dash trim, left hand drive

Item	Part No	Qty	Description	
①	040234	1	Left side lower dash trim. left hand drive	
②	044548	8	Cover cap	
③	000346	8	Socket button head screw M5 x 16	
④	044549	8	Washer, cover cap	
⑤	044413	3	Cage nut 0.7-1.6, M5	
⑥	000437	5	Lug nut M5	
⑦	042067	1	Heater control unit	
⑦	042066	1	Heater control unit with air-con switch	
⑧	048314	1	Blower switch	
⑨	048315	2	Control knob	
⑩	048316	1	Control head assembly	
⑪	000304	4	Button hex head screw M4 x 10, black	
⑫	042068	1	Nut plate, heater control unit	

Right side lower dash trim, right hand drive

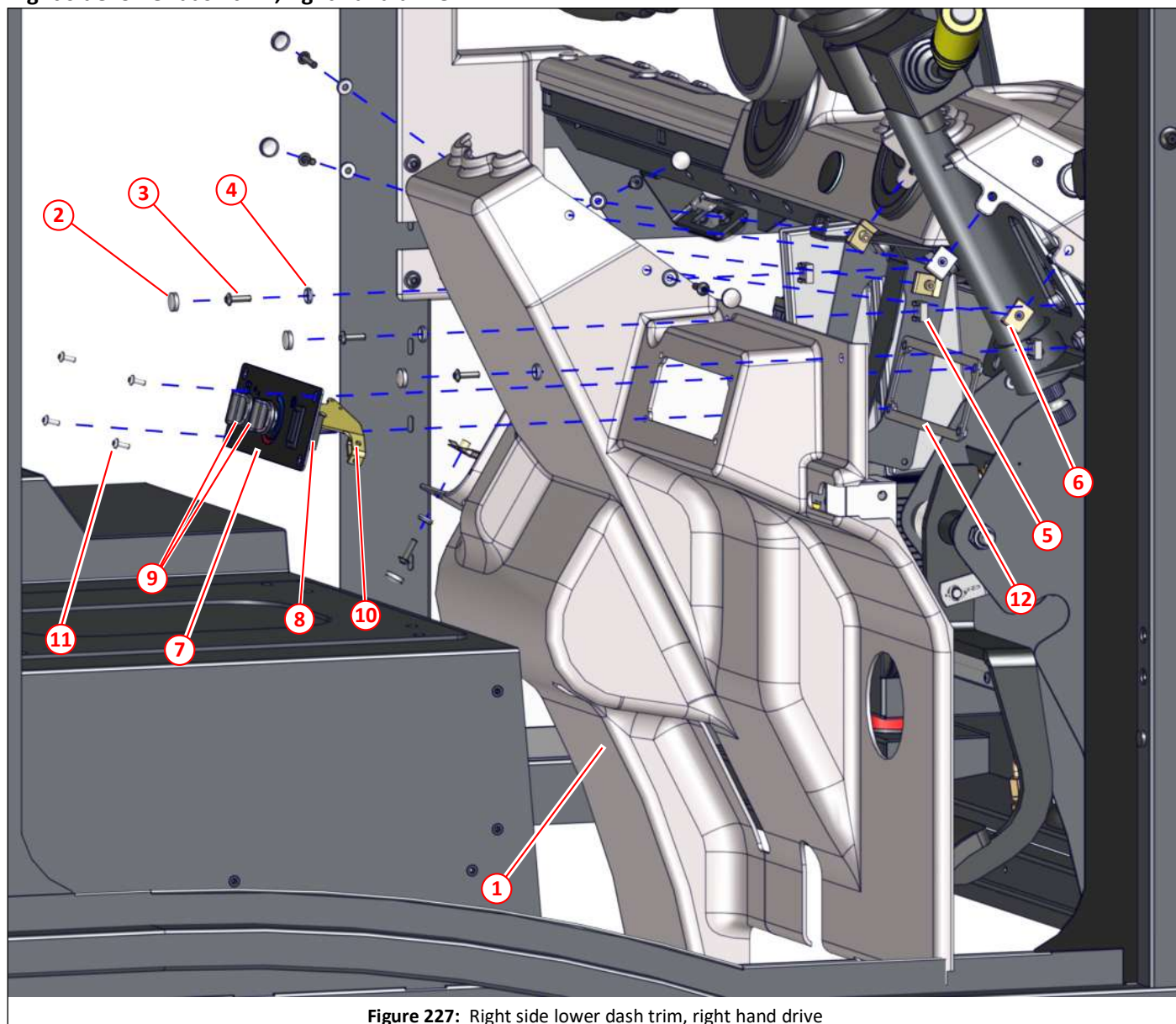


Figure 227: Right side lower dash trim, right hand drive

Item	Part No	Qty	Description	
①	040263	1	Right side lower dash trim, right hand drive	
②	044548	8	Cover cap	
③	000346	8	Socket button head screw M5 x 16	
④	044549	8	Washer, cover cap	
⑤	044413	3	Cage nut 0.7-1.6, M5	
⑥	000437	5	Lug nut M5	
⑦	042067	1	Heater control unit	
⑦	042066	1	Heater control unit with air-con switch	
⑧	048314	1	Blower switch	
⑨	048315	2	Control knob	
⑩	048316	1	Control head assembly	
⑪	000304	4	Button hex head screw M4 x 10, black	
⑫	042068	1	Nut plate, heater control unit	

Operator display screen, sun visors and entry/exit grab handles

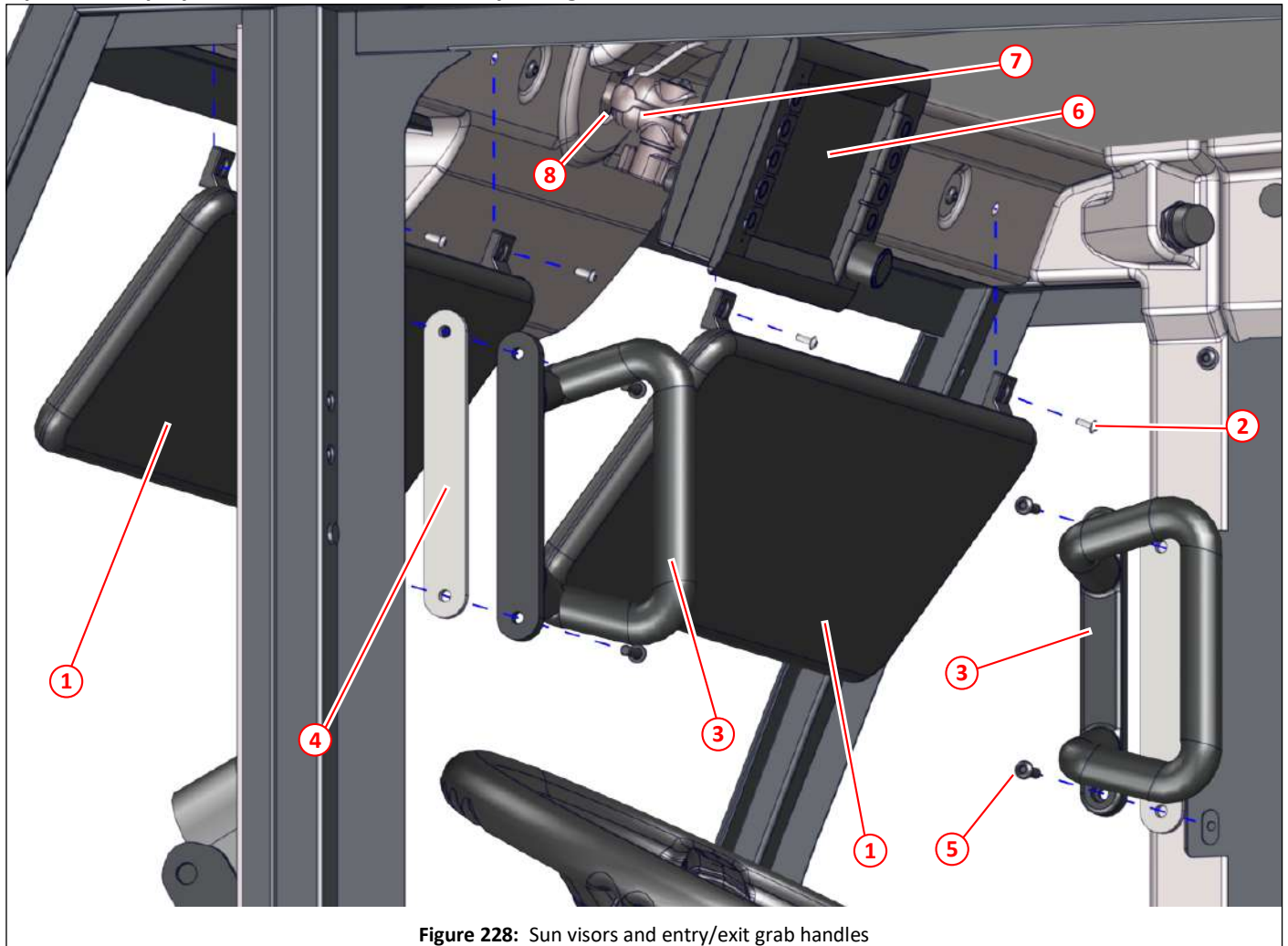


Figure 228: Sun visors and entry/exit grab handles

Item	Part No	Qty	Description	
①	013935	2	Sun visor	
②	000304	4	Button socket head screw M4 x 10, black	
③	038975	2	Grab handle	
④	044389	2	Packer, grab handle	
⑤	000350	4	Button socket head screw M6 x 20	
⑥	042366	1	Operator display screen, CR1084, programmed	226
⑦	037073	1	Panel mount	
⑧	000346	8	Button socket head screw M5 x 16, black	
NI	043235	1	Wiring loom, operator display screen, CR1084	239

Internal trim panels, roof, front and right side

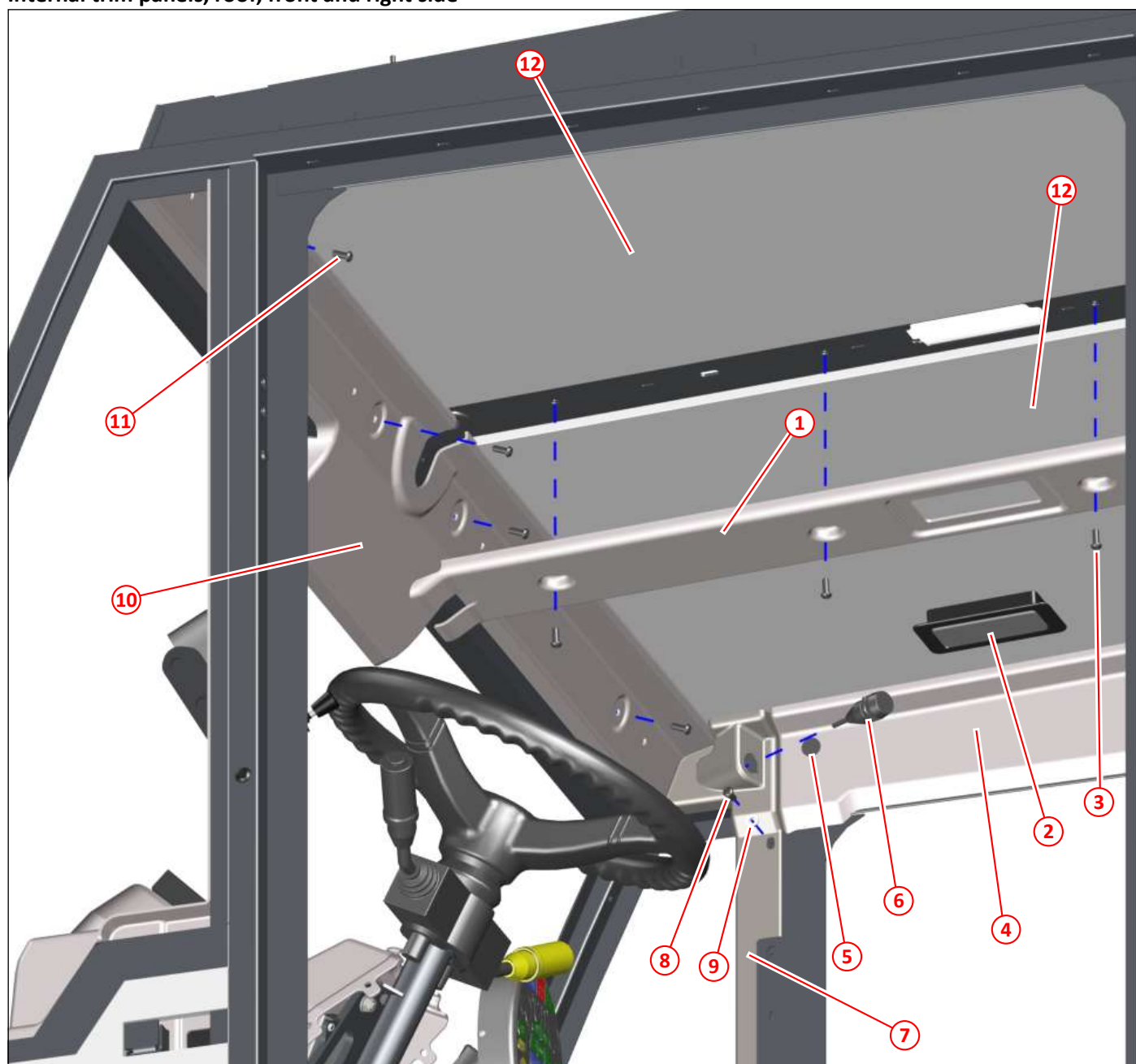
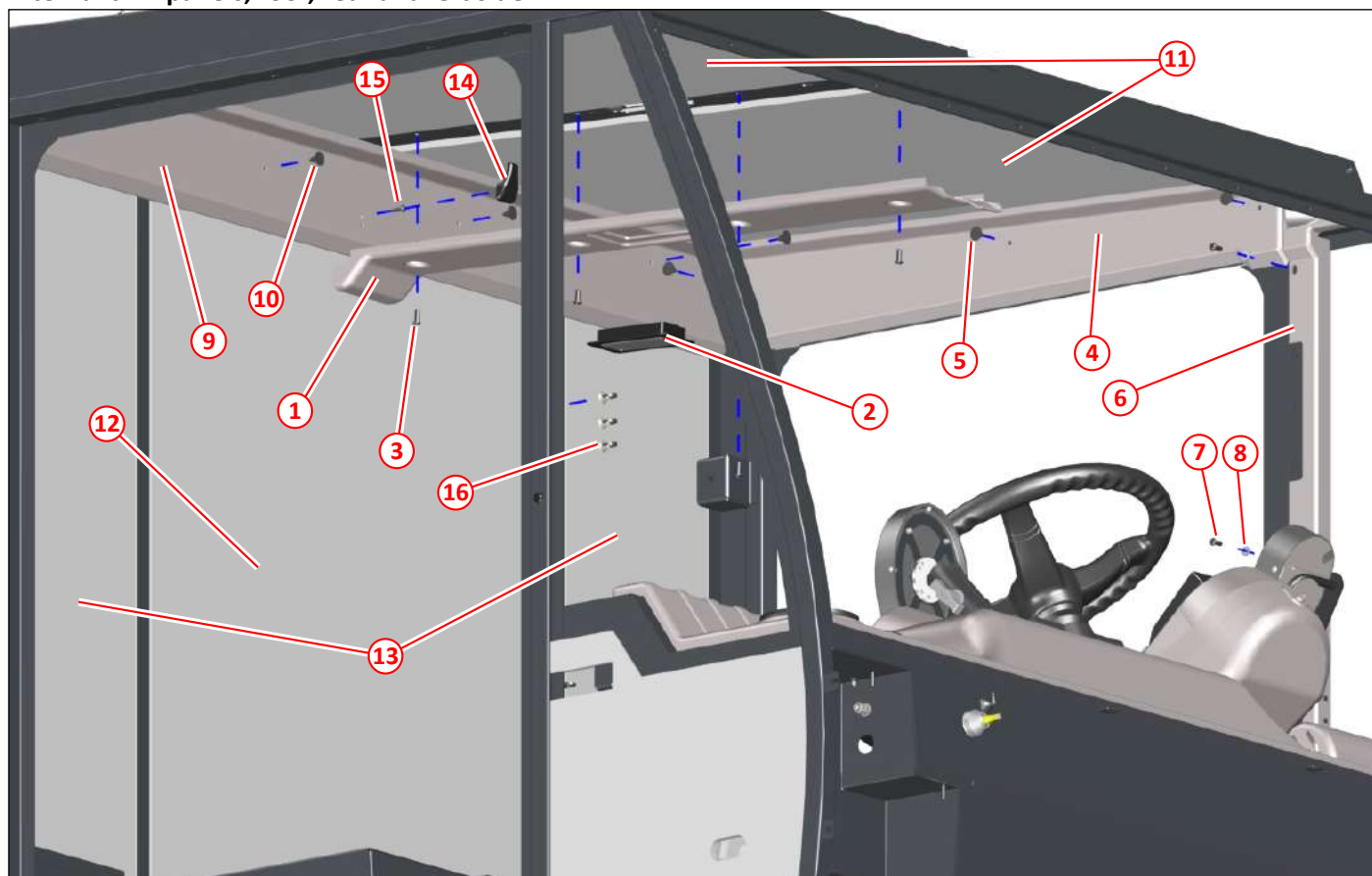


Figure 229: Internal trim panels, roof, front and right side

Item	Part No	Qty	Description	
①	042113	1	Central roof trim	
②	038557	1	Interior light 12v	
③	000338	4	Socket button head screw M6 x 16	
④	042056	1	Side roof trim right hand side	
⑤	043188	3	Fir tree button	
⑥	039672	1	M12 cable to USB socket	
⑦	040271	1	B post trim panel. right hand side, right hand drive	
⑦	043710	1	B post trim panel, right hand side, left hand drive	
⑧	000338	4	Socket button head screw M6 x 16	
⑨	011090	4	Plain washer M6	
⑩	042055	1	Front roof trim	
⑪	000338	4	Socket button head screw M6 x 16	
⑫	040269	2	Roof trim panel	

Internal trim panels, roof, rear and left side

Figure 230: Internal trim panels, roof, rear and left side

Item	Part No	Qty	Description	
①	042113	1	Central roof trim	
②	038557	1	Interior light 12v	
③	000338	4	Socket button head screw M6 x 16	
④	042057	1	Side roof trim left hand side	
⑤	043188	3	Fir tree button	
⑥	040272	1	B post trim panel, left hand side, left hand drive	
⑥	043711	1	B post trim panel, left hand side, right hand drive	
⑦	000338	4	Socket button head screw M6 x 16	
⑧	011090	4	Plain washer M6	
⑨	042058	1	Rear roof trim	
⑩	043188	4	Fir tree button	
⑪	040269	2	Roof trim panel	
⑫	042079	1	Rear trim panel, centre	
⑬	040250	2	Rear trim panel, side	
⑭	038383	1	Coat hook	
⑮	000346	1	Button socket head screw M5 x 16, black	
⑯	042052	8	Fir tree clip, with cable tie (4 on each side)	

Dashboard area layout

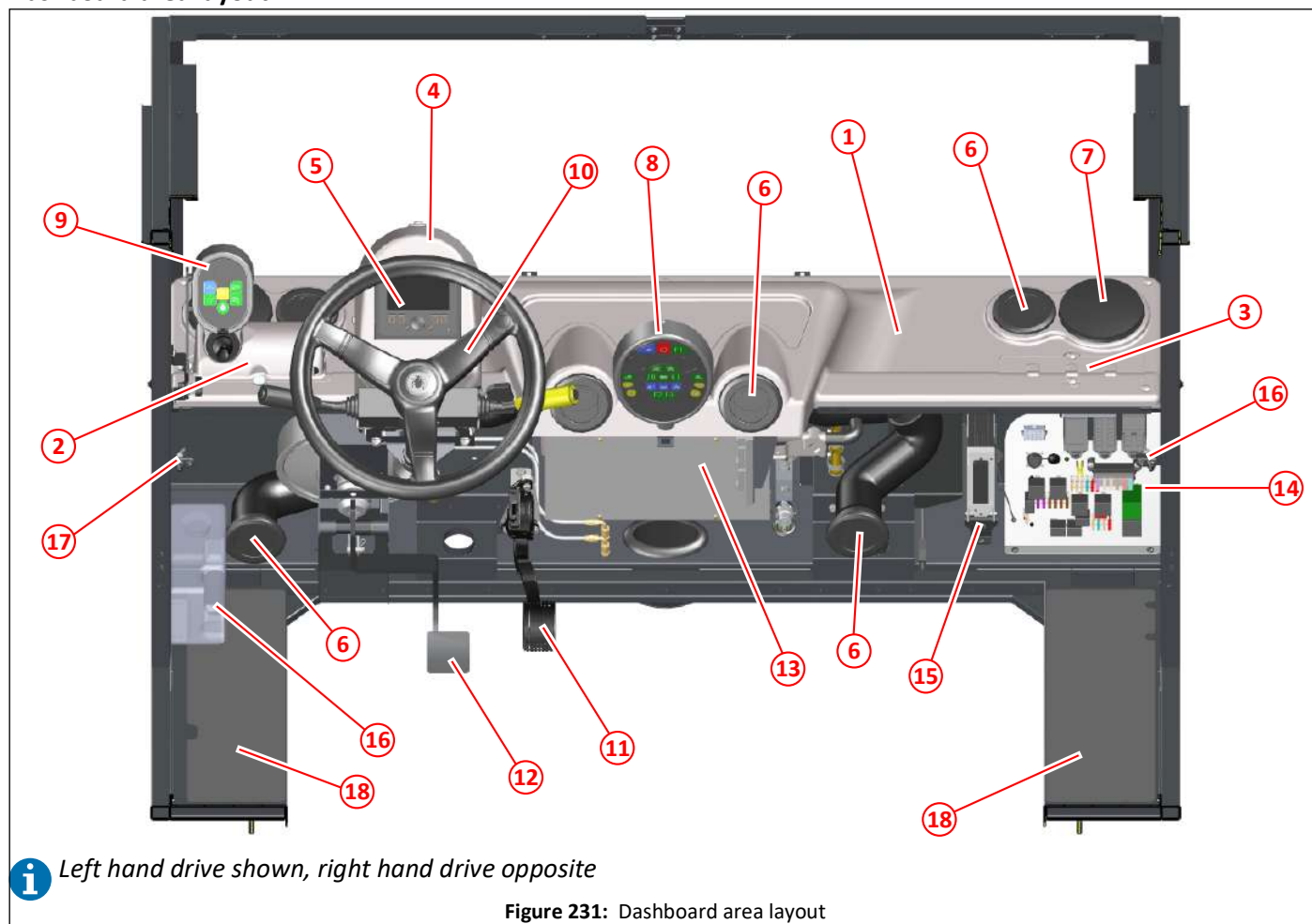
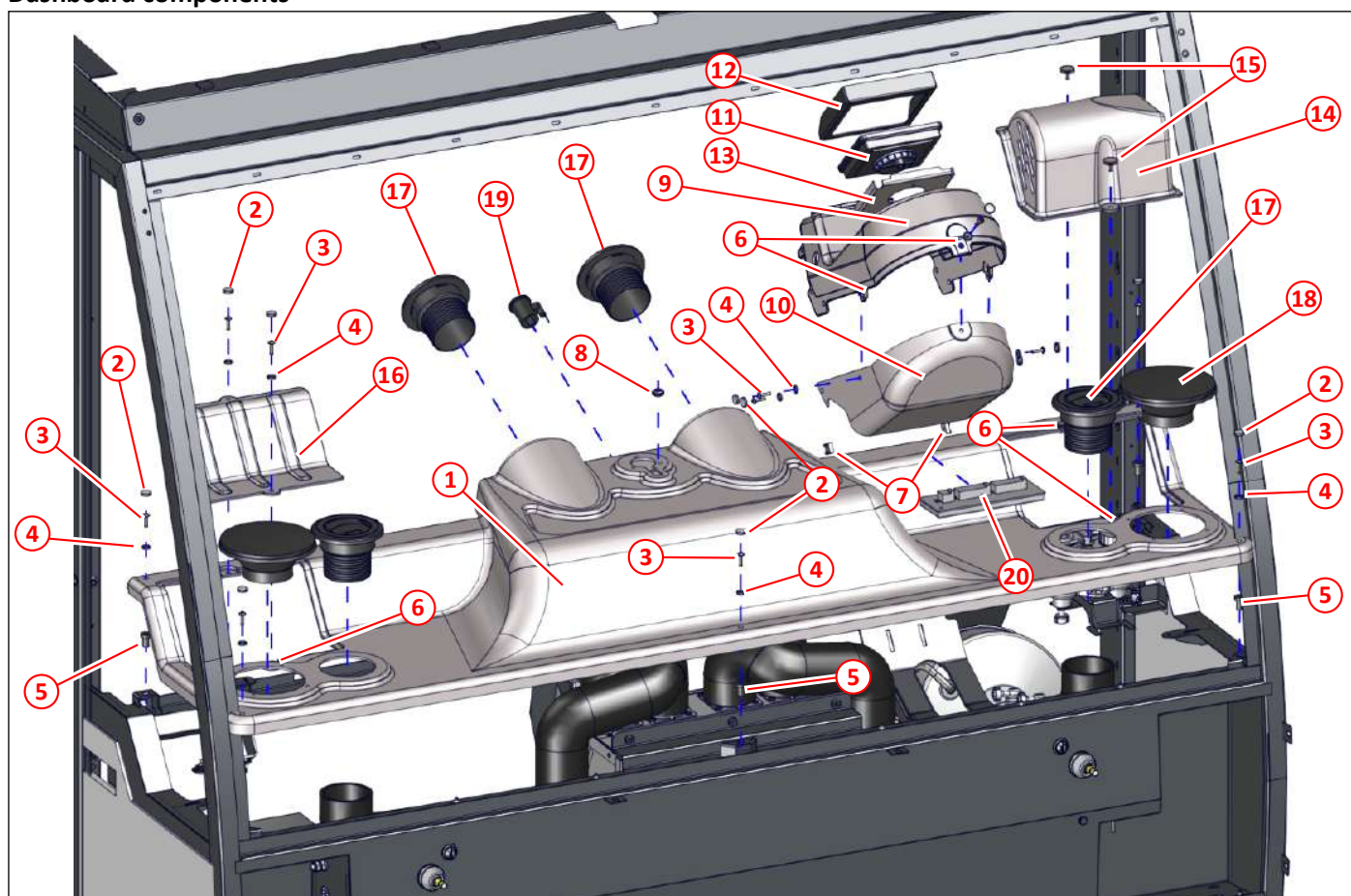


Figure 231: Dashboard area layout

Item	Part No	Qty	Description	
①	045409	1	Dashboard, HDPE277	
②	045408	1	Brake fluid reservoir cover, HDPE	277
③	045807	1	Blanking cover, HDPE	277
④	040254	1	Instrument display mount pod	277
⑤	041923	1	Instrument panel display	227,277
⑥	041982	6	Heating/air vent	283
⑦	031745	2	Audio speaker	
⑧	036579	1	Main keypad controller assembly	224,273,277
⑨		1	Auxiliary keypad controller assembly	225,
⑩		1	Steering column assembly	280,281
⑪	042515	1	Throttle pedal assembly	282
⑫		1	Brake pedal assembly	282,386
⑬	041990	1	Cab heater and air conditioning	284
⑭			Fuse box assembly	228,232
⑮	041836	1	Node 3	236
⑯	030587	1	Screen wash bottle, complete with pump	284
⑰	041892	2	Door switch	
⑱	044565	2	Floor/step trim	

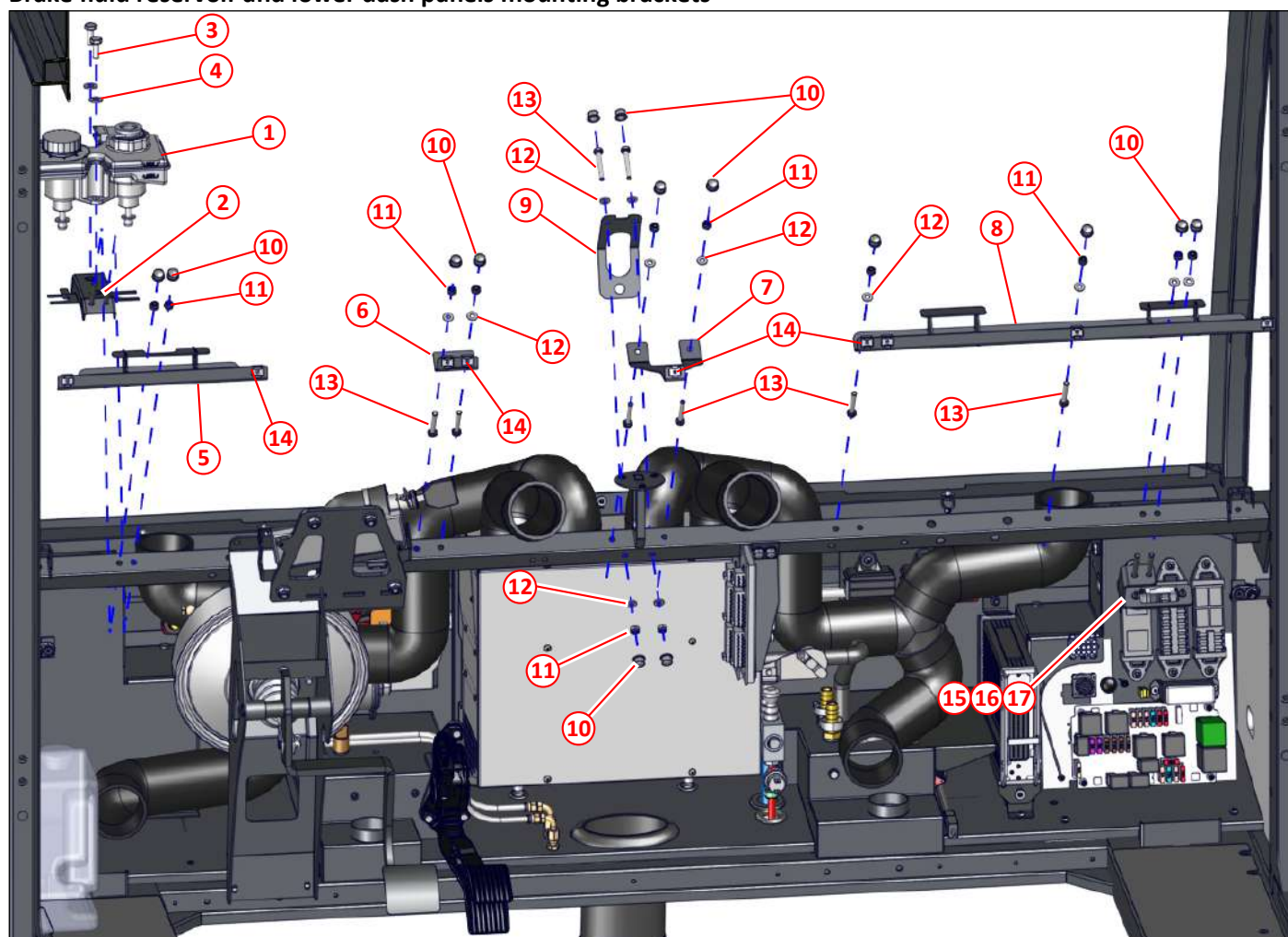
Dashboard components


i Left hand drive shown, right hand drive opposite

Figure 232: Dashboard components

Item	Part No	Qty	Description	
①	045409	1	Dashboard, HDPE	
②	044548	5	Cover cap	
③	000346	12	Socket button head screw M5 x 16	
④	044549	12	Washer, cover cap	
⑤	044561	12	Flex-loc fastener M5	
⑥	000437	6	Lug nut M5	
⑦	044413	2	Cage nut 0.7-1.6, M5	
⑧	014185	1	Grommet	
⑨	040254	1	Display mount	
⑩	040257	1	Display rear cover	
⑪	041925	1	Display assembly, programmed	
⑫	042156	1	Display shroud	
⑬	043186	1	Display mount frame	
⑭	045408	1	Cover, brake fluid reservoir, HDPE	
⑮	044397	2	Knurled thumbscrew M5	
⑯	045407	2	Cover, blanking, HDPE	
⑰	041982	6	Heating/air vent	
⑱	031745	2	Audio speakers, supplied as a pair	
⑲	038733	1	Power socket	
⑳	036799	1	CR2012 cabinet module, slave node	

Brake fluid reservoir and lower dash panels mounting brackets



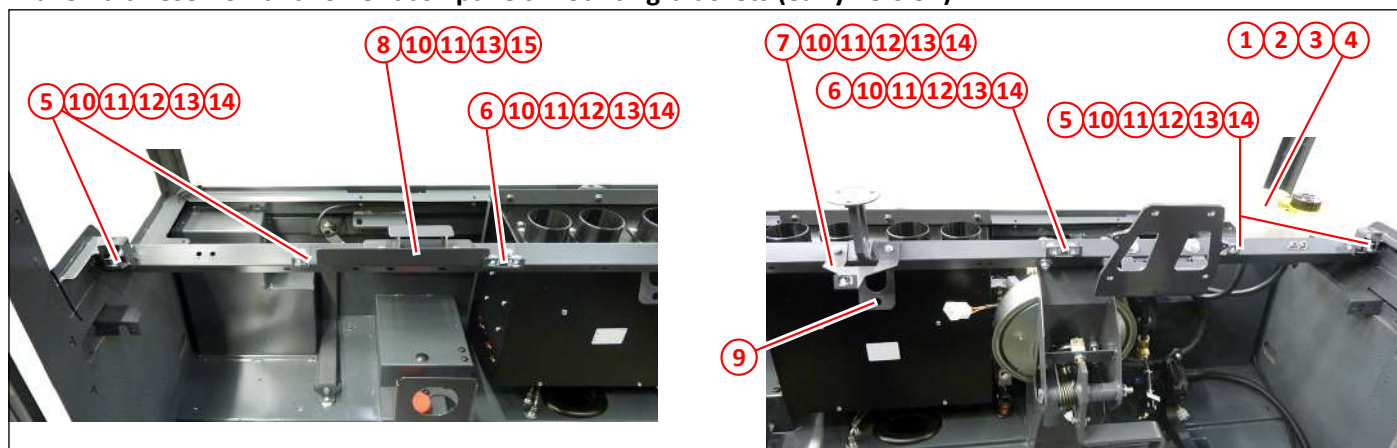
i Left hand drive shown, right hand drive opposite.

Figure 233: Brake fluid reservoir and lower dash panels mounting brackets (new)

Item	Part No	Qty	Description	
①	038587	1	Brake fluid reservoir	387
②	041595	1	Mounting bracket, brake fluid reservoir	
③	011010	2	Set screw M8 x 20	
④	011092	2	Plain washer M8	
⑤	044431	1	Mounting bracket, dash nearside	
⑥	043893	1	Mounting bracket, dash central, small	
⑦	043898	1	Mounting bracket, dash central	
⑧	044433	1	Mounting bracket, dash offside, left hand drive	
⑧	044434	1	Mounting bracket, dash offside, right hand drive	
⑨	043119 *	1	Bracket, radio support. (Required if fitting a full depth radio unit)	
⑩	000454 *	12	Nut cap M6, for loom and wire protection	
⑪	011071 *	12	Nyloc nut M6	
⑫	011090 *	12	Plain washer M6	
⑬	000021 *	8	Set screw M6 x 40	
⑭	044413	9	Cage nut 0.7-1.6, M5	
⑮	041895	1	Bracket, fuse box lamp	
⑯	041891	1	Lamp, fuse box	
⑰	000342	2	Socket button head screw, M4 x16, black	

* If fitting a full depth radio then 1 bracket and 2 set screws and nuts, 4 washers and nut caps will be required.

Brake fluid reservoir and lower dash panels mounting brackets (early version)



i Right hand drive shown, left hand drive is opposite.

Figure 234: Brake fluid reservoir and lower dash panels mounting brackets (old)

Item	Part No	Qty	Description	
①	038587	1	Brake fluid reservoir	387
②	041595	1	Mounting bracket, brake fluid reservoir	
③	011010	2	Set screw M8 x 20	
④	011092	2	Plain washer M8	
⑤	043894	4	Mounting bracket, dash end	
⑥	043893	1	Mounting bracket, dash central, small	
⑦	043898	1	Mounting bracket, dash central	
⑧	043116	1	Mounting bracket, dash support	
⑨	043119	1	Bracket, radio support	
⑩	000454	13	M6 nut cap, for loom and wire protection	
⑪	011071	13	Nyloc nut M6	
⑫	011090	11	Plain washer M6	
⑬	000021	11	Set screw M6 x 40	
⑭	044413	9	Cage nut 0.7-1.6, M5	
⑮	011099	2	Repair washer	

Steering column mounting

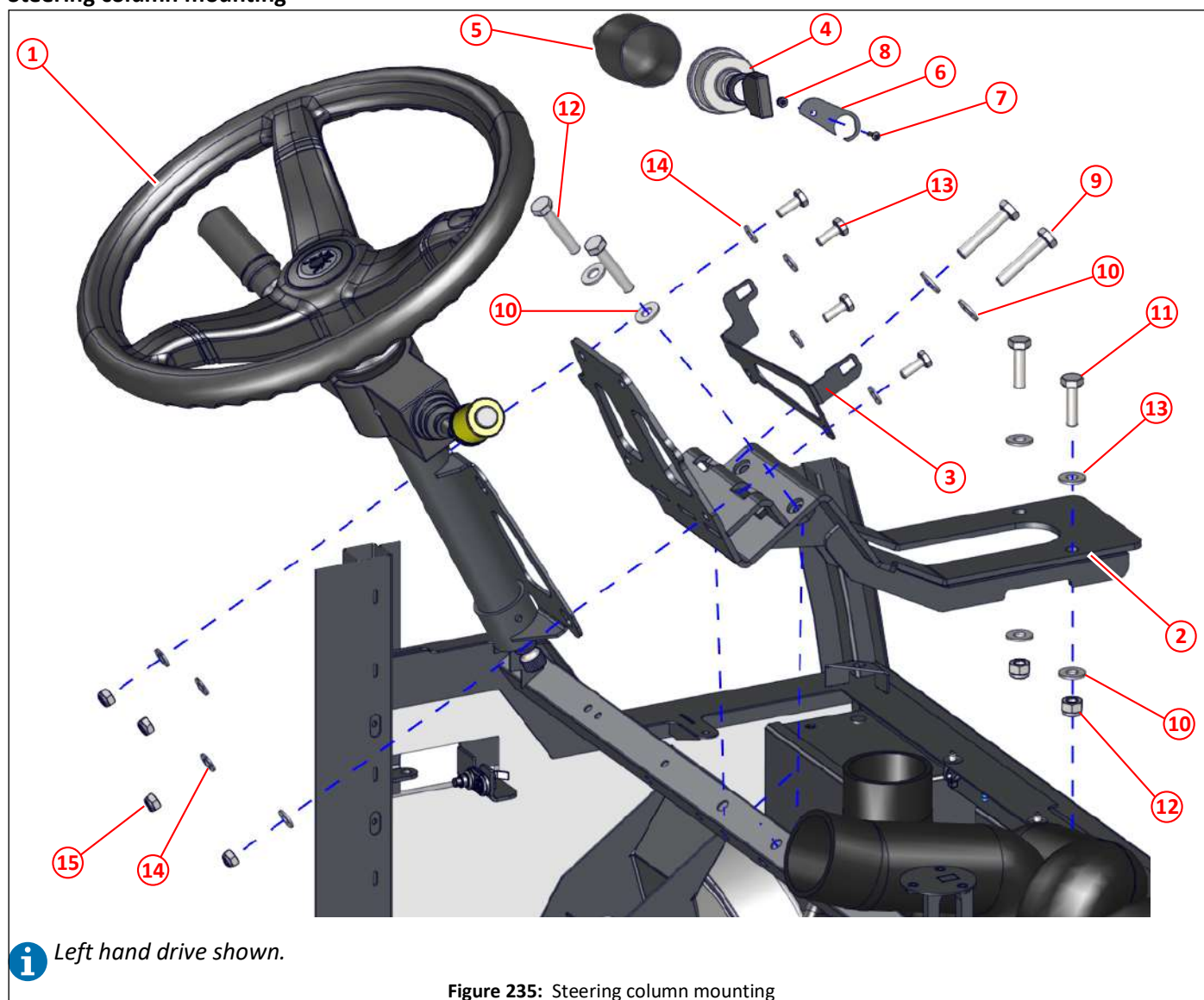


Figure 235: Steering column mounting

Item	Part No	Qty	Description	
①	042125	1	Upper steering column assembly	
②	040253	1	Mounting frame, steering column	
③	043523	1	Support bracket, display mount	
④	043140	1	Ignition switch and keys	
⑤	042604	1	Boot, ignition switch	
⑥	044405	1	Mounting plate, ignition switch	
⑦	000342	1	Socket button head screw, M4 x16, black	
⑧	000134	1	Nyloc nut M4	
⑨	011035	4	Set screw M10 x 50	
⑩	011094	6	Plain washer M10	
⑪	011033	2	Set screw M10 x 35	
⑫	011075	2	Nyloc nut M10	
⑬	011010	4	Set screw M8 x 20	
⑭	011092	8	Plain washer M8	
⑮	011073	4	Nyloc nut M8	

Steering column

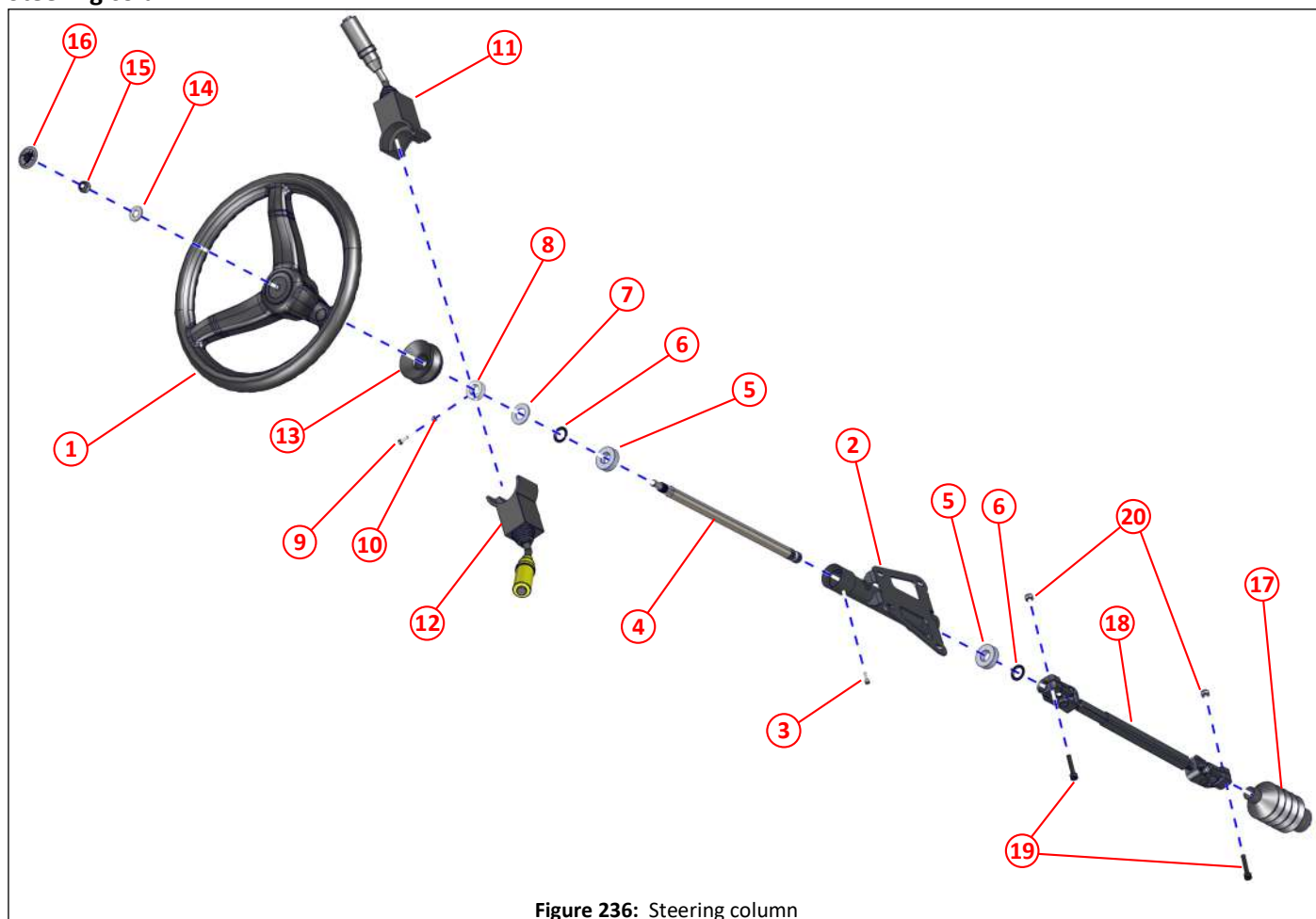
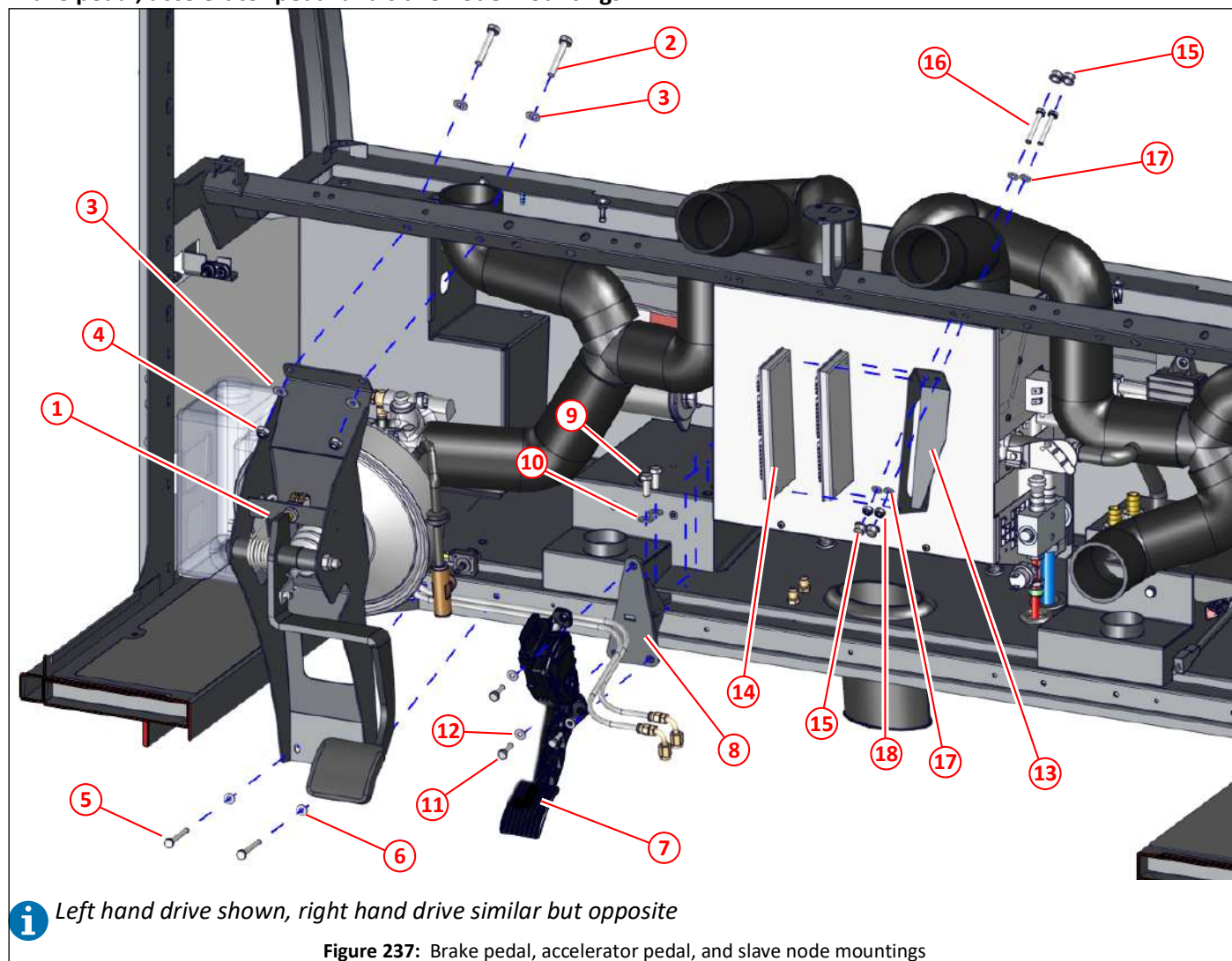


Figure 236: Steering column

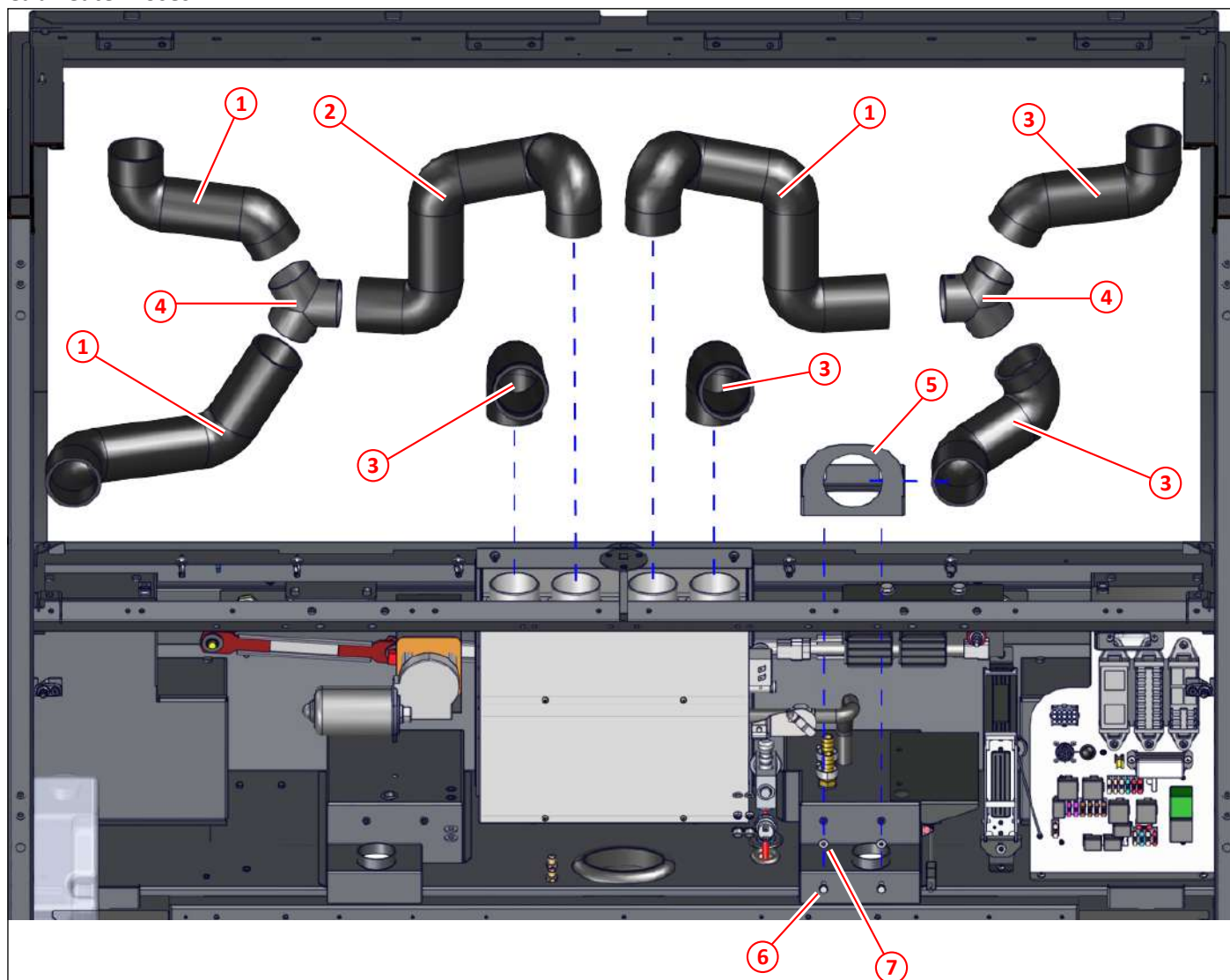
Item	Part No	Qty	Description	
①	041022	1	Steering wheel	
②	031616	1	Steering column, outer	
③	000341	1	Socket cap screw M5 x 16	
④	043917	1	Steering column upper	
⑤	031621	2	Bearing 6004-C-2HRS	
⑥	035604	2	Starlock washer ø20	
⑦	011102	1	Plain washer M20	
⑧	041023	1	Boss, indicator cancelling	
⑨	000052	1	Bolt M5 x 16	
⑩	000054	1	Nut M5	
⑪	038855	1	Multifunction column switch/lever, wipers, indicators, headlight dip/mains	
⑫	039033	1	Multifunction column switch/lever, gear select and horn	
⑬	041025	1	Modified bellows	
⑭	011096	1	Plain washer M12	
⑮	011077	1	Nyloc nut M12	
⑯	039401	1	Centre cap with logo, steering wheel	
⑰	014473	1	Modified bellows	
⑱	033059	1	Steering column, lower	
⑲	046030	1	Steering column, lower (HEMA)	
⑳	000096	2	Socket cap screw M8 x 40	
㉑	011073	2	Nyloc nut M8	
	042145	1	Steering column, upper, complete, includes items ① to ⑰	

Brake pedal, accelerator pedal and slave node mountings



Item	Part No	Qty	Description	
①		1	Brake pedal assembly, left hand drive shown	386
②	011015	2	Set screw M8 x 45	
③	011092	4	Plain washer M8	
④	011073	2	Nyloc nut M8	
⑤	000120	2	Set screw M6 x 45	
⑥	011090	2	Plain washer M6	
⑦	042515	1	Throttle pedal	
⑧	040262	1	Mounting bracket, throttle pedal	
⑨	011010	2	Set screw M8 x 20	
⑩	011092	2	Plain washer M8	
⑪	011067	3	Set screw M6 x 20	
⑫	011090	3	Plain washer M6	
⑬	040252	1	Node bracket	
⑭	036799	2	CR2012 cabinet module, slave node	
⑮	000454	4	Nut cap M6, for loom and wire protection	
⑯	000021	2	Set screw M6 x 40	
⑰	011090	4	Plain washer M6	
⑱	011071	2	Nyloc nut M6	

Cab heater hoses

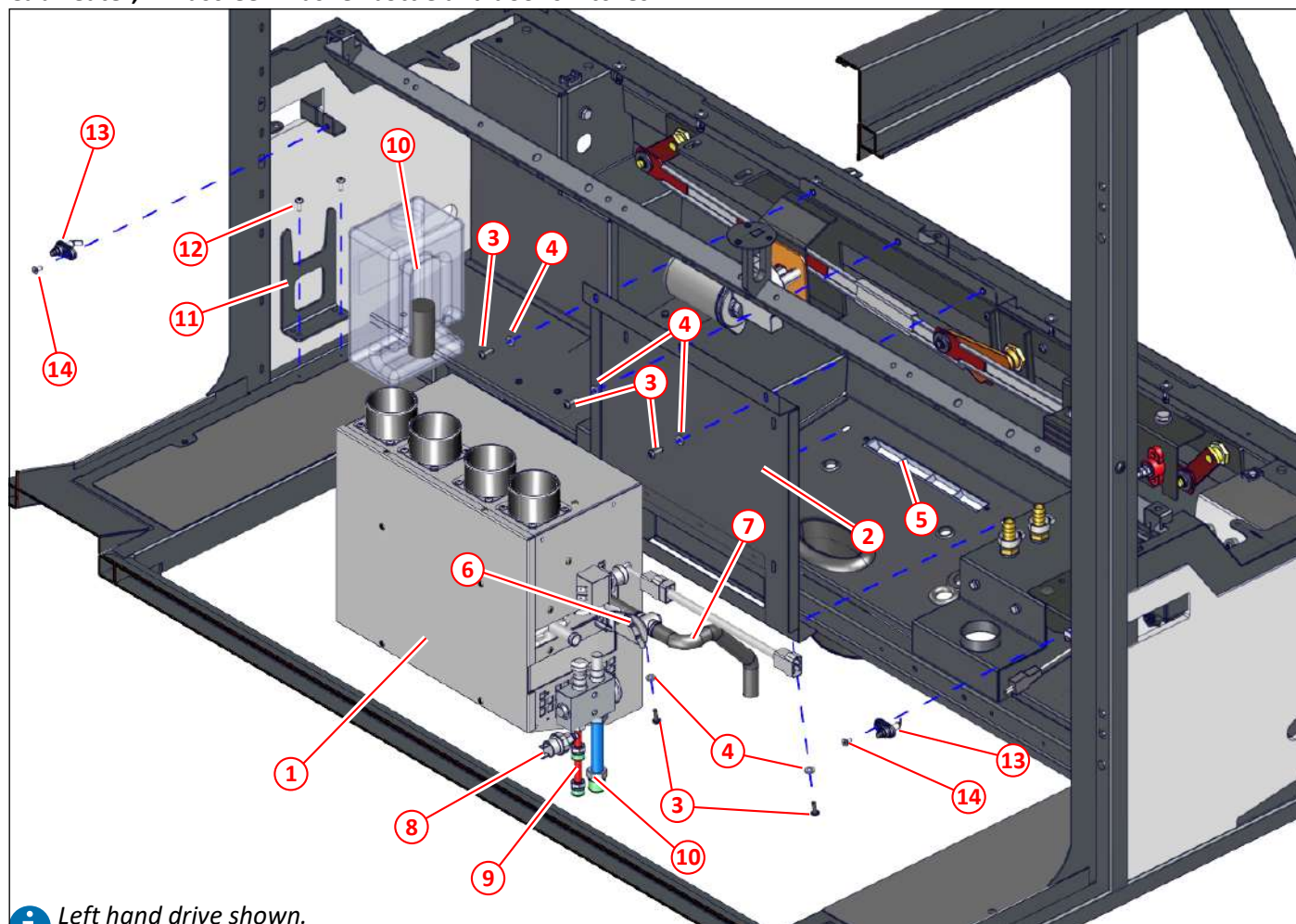


i Left hand drive shown, right hand drive opposite

Figure 238: Cab heater hoses

Item	Part No	Qty	Description	
①	041983	3	2 ½" Flexible hose, 500mm operating length	
②	041984	1	2 ½" Flexible hose, 600mm operating length	
③	041985	4	2 ½" flexible hose, 400mm operating length	
④	041987	2	2 ½" Y piece	
⑤	044820	1	Mounting bracket, vent	
⑥	011001	2	Set screw M6 x 16	
⑦	011090	2	Plain washer M6	

Cab heater, windscreen washer bottle and door switches



i Left hand drive shown.

Figure 239: Cab heater, windscreen washer bottle and door switches

Item	Part No	Qty	Description	
①	041990*	1	Cab heater for machine with air conditioning	
①	041981*	1	Cab heater for machine without air conditioning	
②	037114	1	Mounting plate, cab heater	
③	000338	5	Socket button head screw M6 x 16	
④	011090	5	Plain washer M6	
⑤	037131	1	Air grill, riveted	
⑥	041986	1	Hot water valve and clip	
⑦	001013	As req	Hose, heater, 15mm	
NI	010517	As req	Worm drive hose clip No OX (18 - 25)	
⑧	043039†	1	Binary switch	
⑨	045285†	1	TXV fitting, long	
⑩	045284†	1	Air-con extension pipe	
⑩	030587	1	Windscreen washer bottle, includes pump	
⑪	030588	1	Bracket, washer bottle	
⑫	011115	2	Pan head pozidrive screw No. 10 x 1/2" AB self tapping	
NI	042858	As req	Hose for windscreen washing system	
⑬	041892	2	Door switch	
⑭	000406	2	Socket countersunk screw M5 x 10	

*.Choose relevant item.

†.For air conditioned machines only.

Fuse panel, Node 3 and terminal block mountings

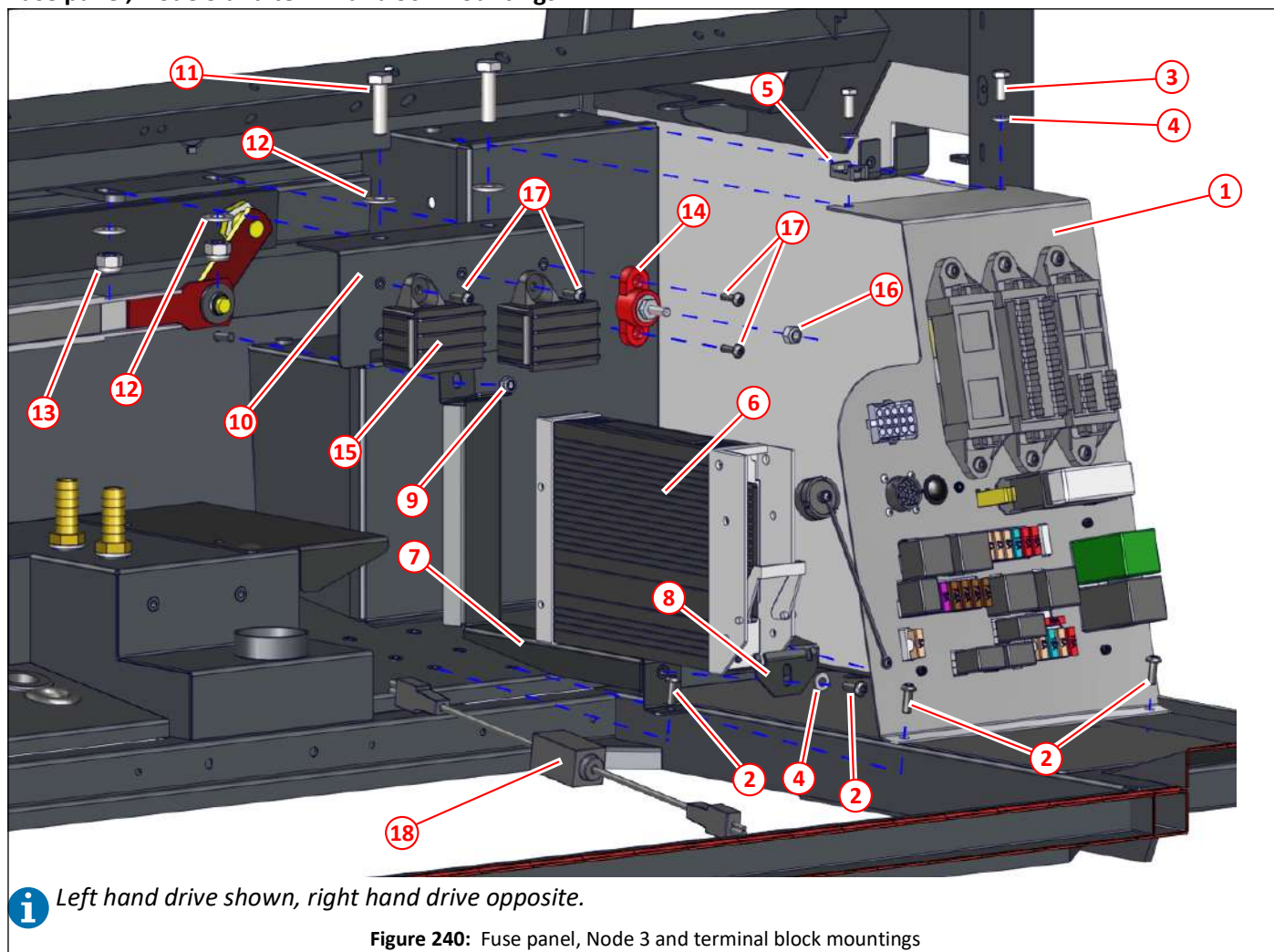
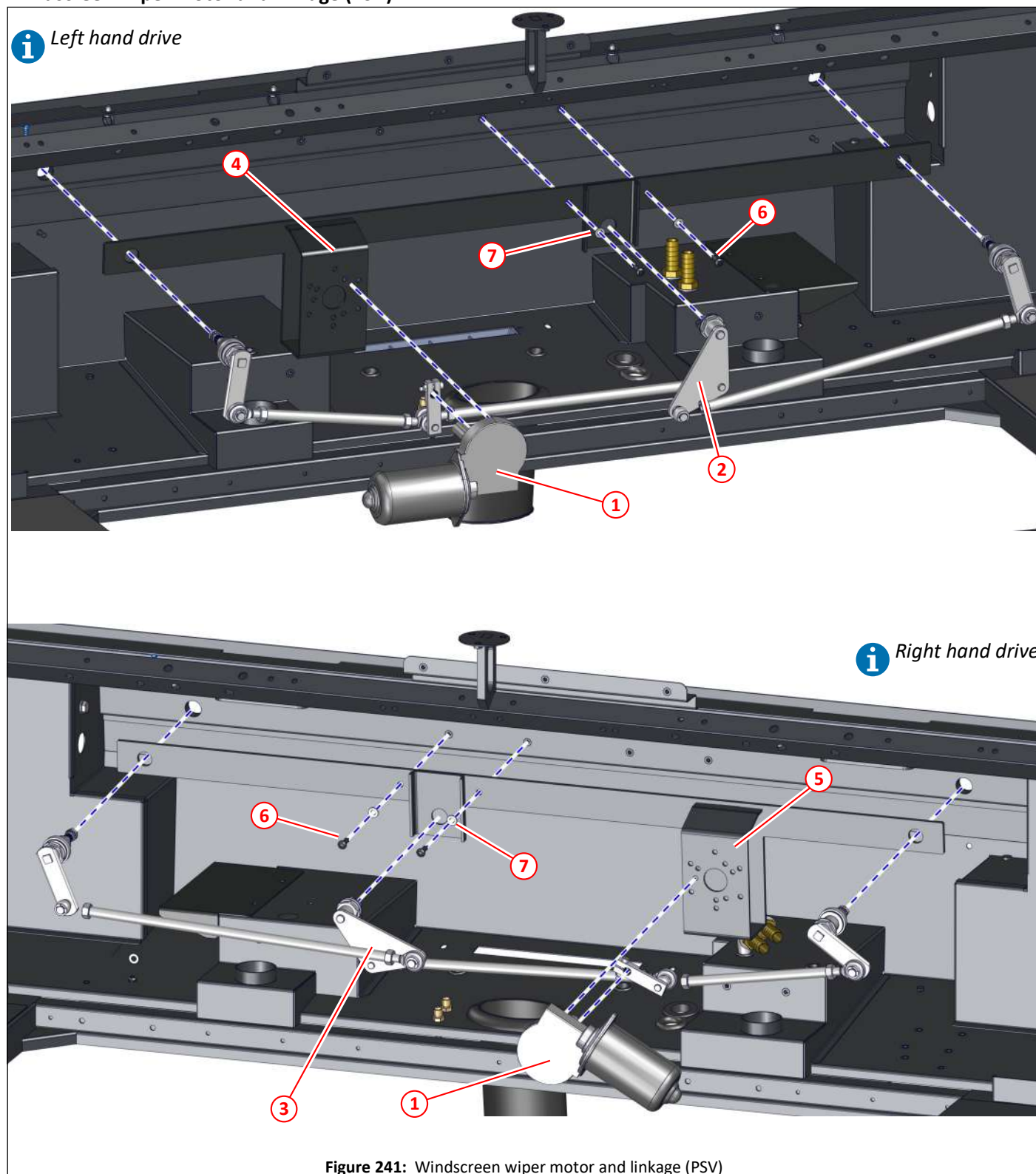


Figure 240: Fuse panel, Node 3 and terminal block mountings

Item	Part No	Qty	Description	
①	042292	1	Fuse box assembly, left hand drive	228
①	042293	1	Fuse box assembly, right hand drive	232
②	000338	4	Socket button head screw M6 x 16	
③	011001	2	Set screw M6 x 16	
④	011090	3	Plain washer M6	
⑤	004163	As req	Cable tie clip	
⑥	041836	1	CR0032 controller, Node 3	
⑦	041462	1	Mounting bracket, Node 3	
⑧	041463	1	Clamp, Node 3 bracket	
⑨	011071	1	Nyloc nut M6	
⑩	041593	1	Mounting bracket, terminal block	
⑪	011033	2	Set screw M10 x 35	
⑫	011094	4	Plain washer M10	
⑬	011075	2	Nyloc nut M10	
⑭	036843	1	Power post M6, red	
⑮	036844	2	Power connection link, black	
⑯	000429	1	1/4" UNC Nyloc nut, plated	
⑰	000346	4	Socket button head screw M5 x 16, black	
⑱	039065	1	12v to 5v power supply	

Windscreen wiper motor and linkage (PSV)



Item	Part No	Qty	Description	
①	044257	1	Wiper motor	
②	046264	1	Wiper linkage, left hand drive, (PSV)	
③	046265	1	Wiper linkage, right hand drive, (PSV)	
④	041597	1	Mounting bracket, wiper, left hand drive	
⑤	041956	1	Mounting bracket, wiper, right hand drive	
⑥	000338	2	Socket button head screw M6 x 16	
⑦	011090	2	Plain washer M6	

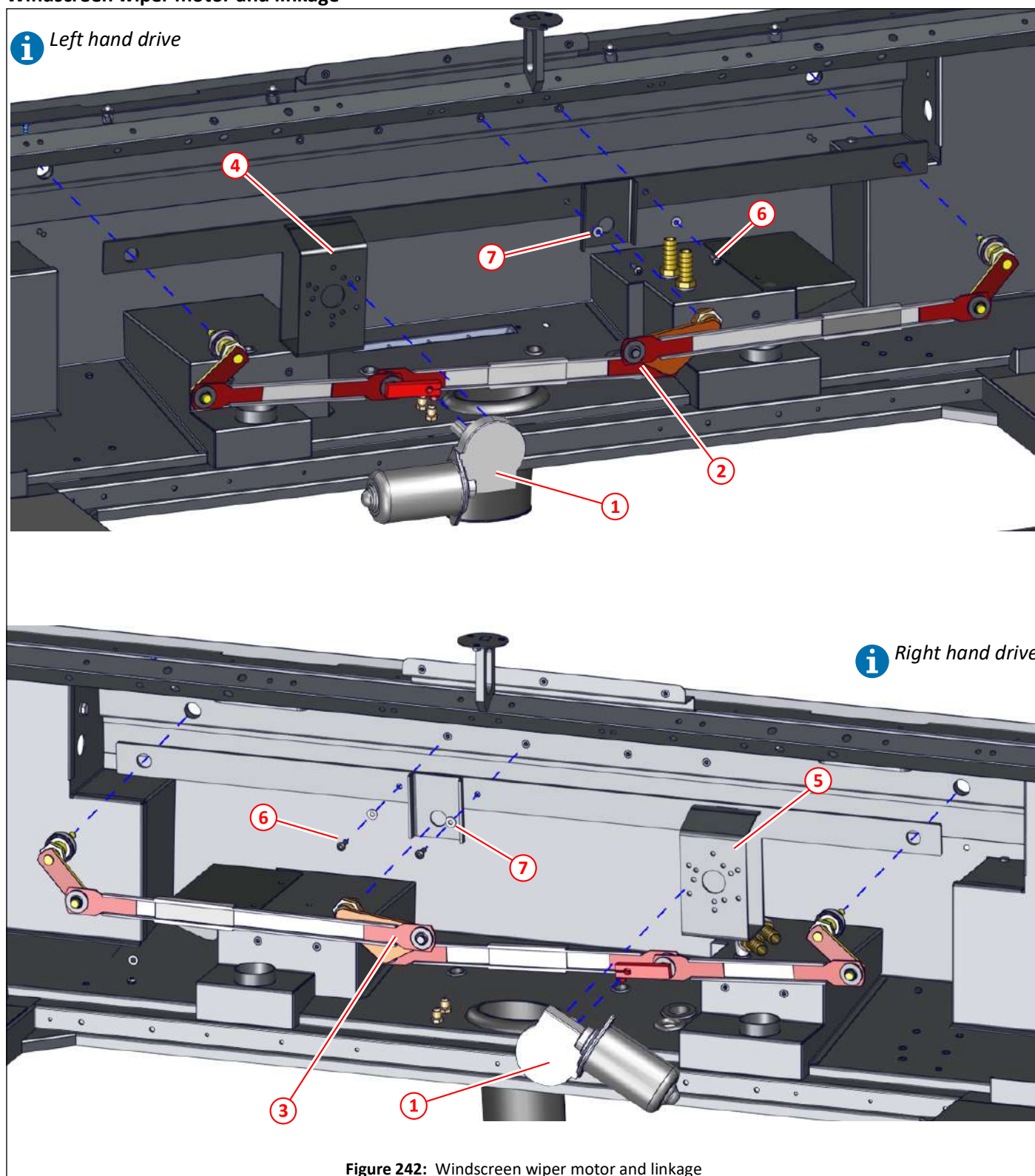


Figure 242: Windscreen wiper motor and linkage

Item	Part No	Qty	Description
①	044257	1	Wiper motor
②	043622	1	Wiper linkage, left hand drive
③	043623	1	Wiper linkage, right hand drive
④	041597	1	Mounting bracket, wiper, left hand drive
⑤	041956	1	Mounting bracket, wiper, right hand drive
⑥	000338	2	Socket button head screw M6 x 16
⑦	011090	2	Plain washer M6

Cab underneath grommets and other fittings

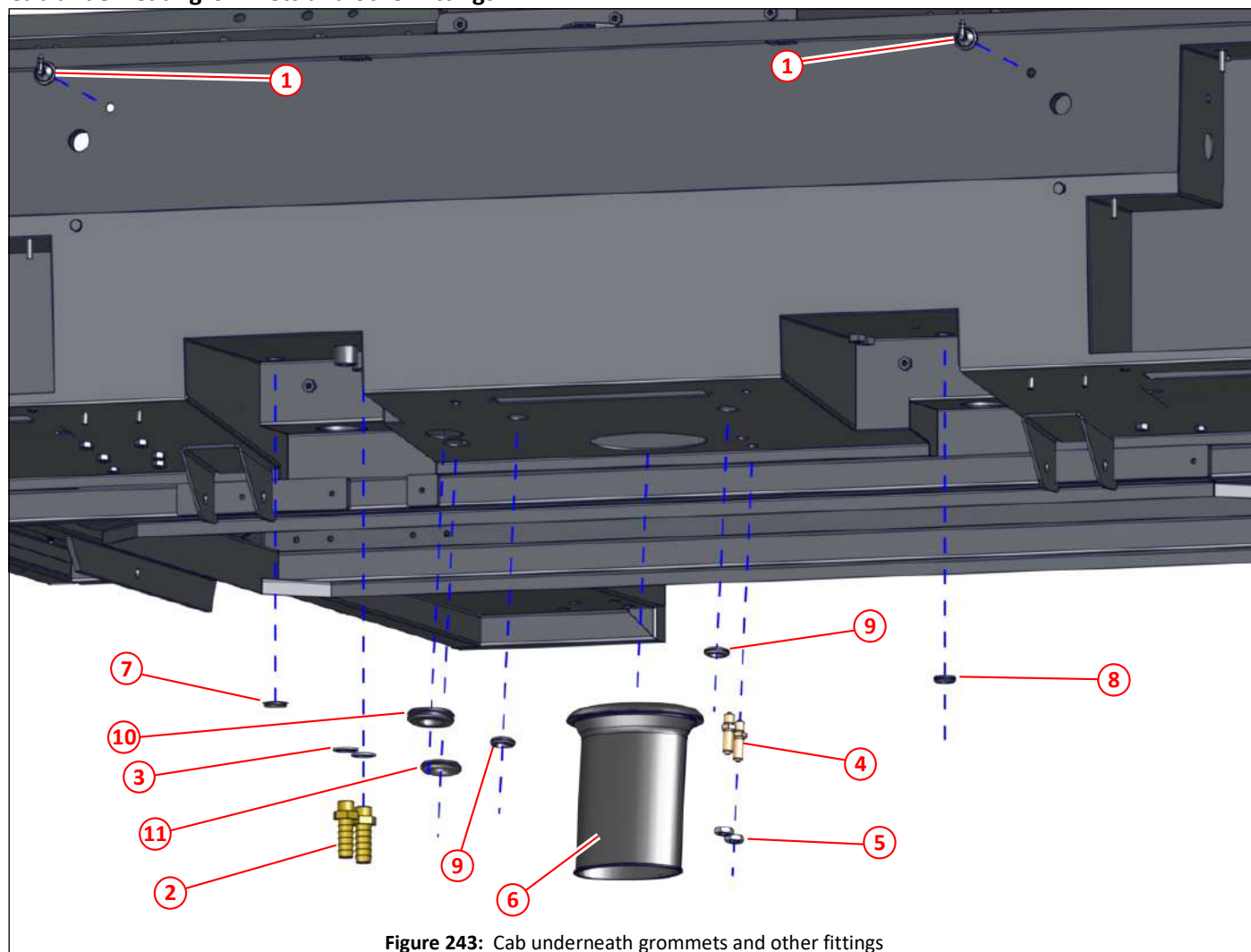


Figure 243: Cab underneath grommets and other fittings

Item	Part No	Qty	Description	
①	042856	2	Elbow connector, windscreen washer	
②	010930	2	Adapter $\frac{3}{8}$ " BSP x $\frac{5}{8}$ " hose tail	
③	011153	2	Dowty seal $\frac{3}{8}$ " BSP	
④	043530	2	M10 x 1 M/M brake bulkhead fittings	
⑤	000077	2	Lock nut M10 x 1mm	
⑥	034807	1	Panel sock	
⑦	014185*	1	Grommet, blanking 19.0	
⑧	040202*	1	Grommet 17.5 OD x 12.7 ID	
⑨	022868	2	Grommet 19.8PH/15.9B/1.6PT	
⑩	014096	1	Grommet 25.4 x 32.6	
⑪	012542	1	Grommet 1"	

*.These items swap places on right hand drive.

Cab frame

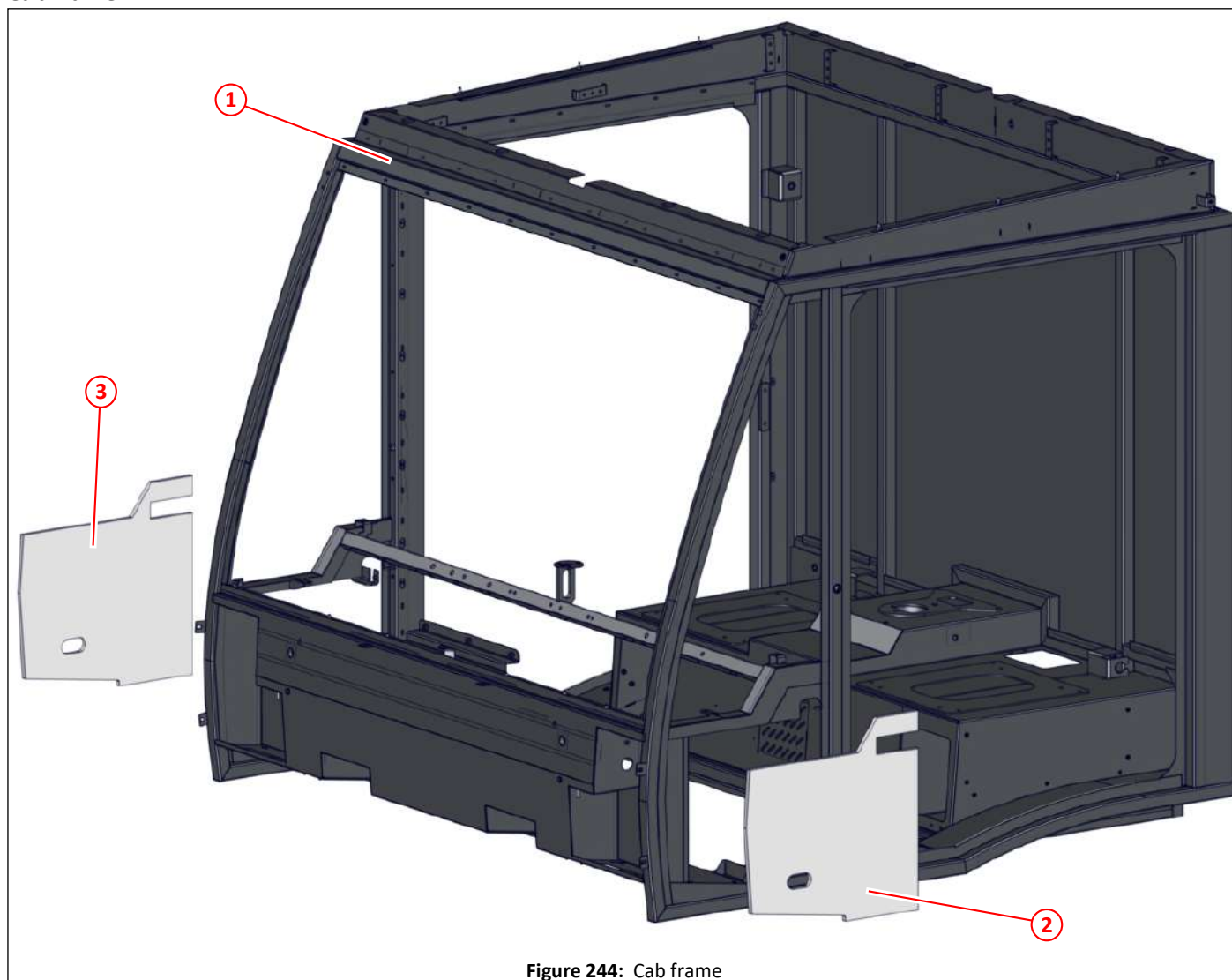


Figure 244: Cab frame

Item	Part No	Qty	Description	
①	040223	1	Cab frame	
②	041717	1	Insulation panel, left hand side	
③	041718	1	Insulation panel, right hand side	

Air conditioning

<i>Description</i>	<i>Page</i>
Air conditioning, relief and regulator valve, remote mounted compressor	292
Air conditioning, compressor, pipe and hose arrangement, remote mounted compressor	293
Air conditioning, remote mounted compressor with motor	294
Air conditioning, manifold for air conditioning and steering pump returns, remote mounted compressor	295
Relief and regulator valve for air conditioning and power steering pump, remote mounted compressor	296
Air conditioning, condenser coil and receiver drier arrangement	297

Air conditioning, relief and regulator valve, remote mounted compressor

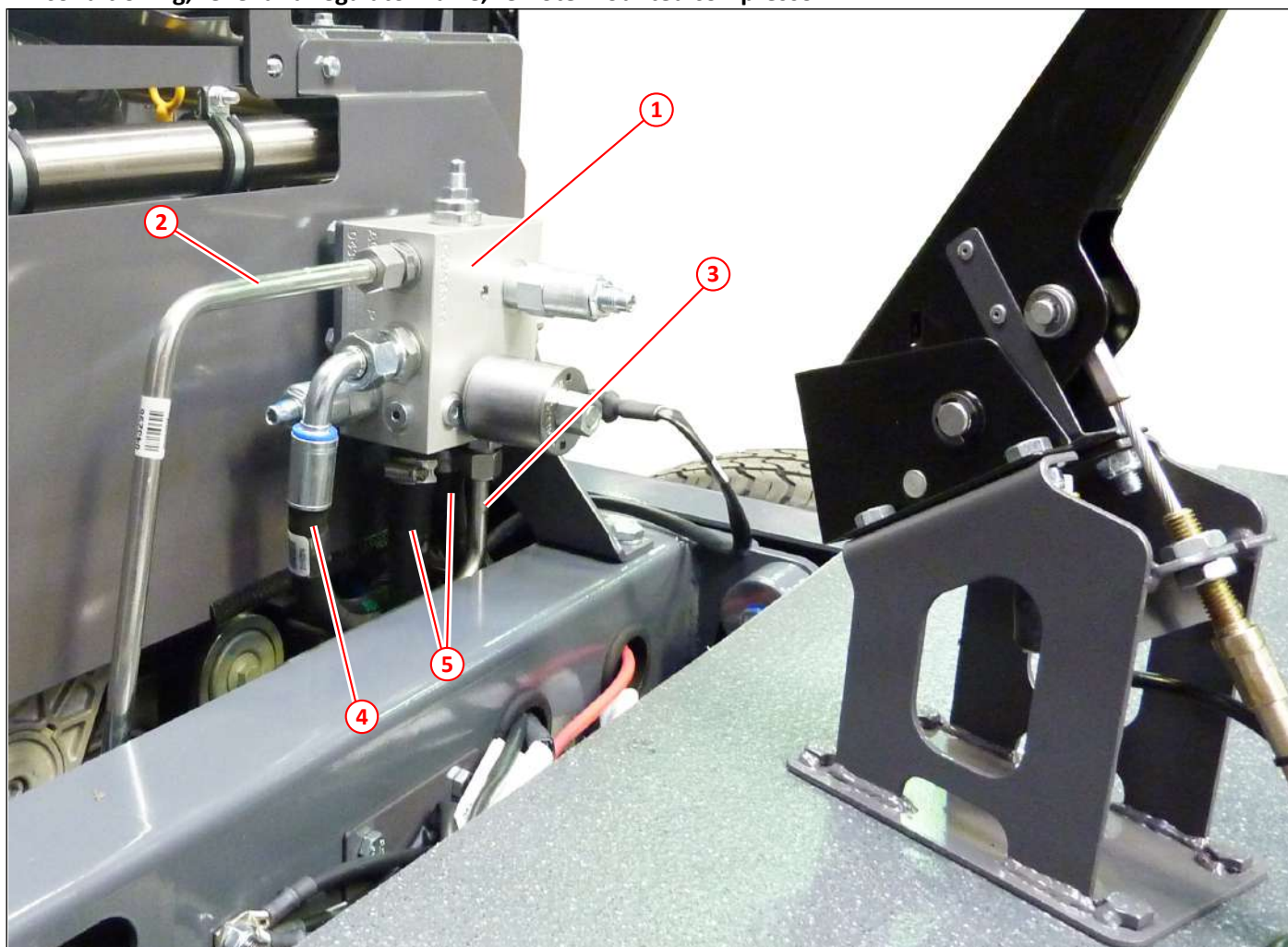
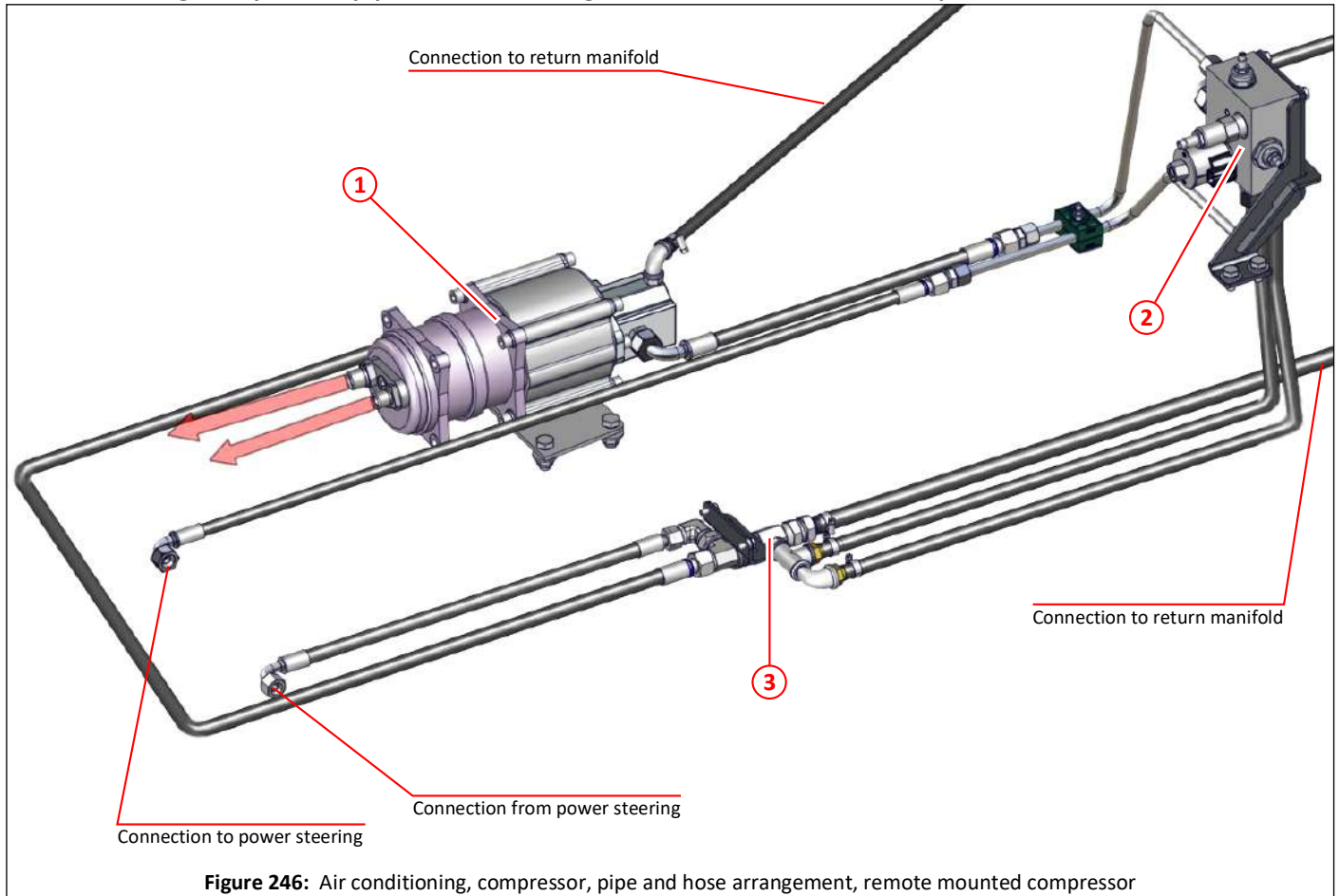


Figure 245: Relief and regulator valve for air conditioning and power steering pump, remote mounted compressor

Item	Part No	Qty	Description	
①	043506	1	Valve block, air conditioning and power steering, populated	201,293
②	043296	1	Steel pipe, air conditioning supply	201
③	043297	1	Steel pipe, power steering supply	201
④	002129	1	Hose $\frac{1}{2}$ " x 750, straight and 90° ends	201
⑤	011000	As req	Hose $\frac{5}{8}$ "	201

i This relief and regulator valve is used for both the air conditioning pump and the steering pump. See page 201 for full list of fittings attached to this valve block.
Only used on sweepers with remote mounted air condition compressor.

Air conditioning, compressor, pipe and hose arrangement, remote mounted compressor



Item	Part No	Qty	Description	
①	038731	1	Compressor with motor, air conditioning	294
②	043556	1	Relief and regulator valve, air conditioning and power steering pump	201,292,296
③			Manifold	295

i This arrangement is only for sweepers with remote mounted air conditioning compressor.

Air conditioning, remote mounted compressor with motor

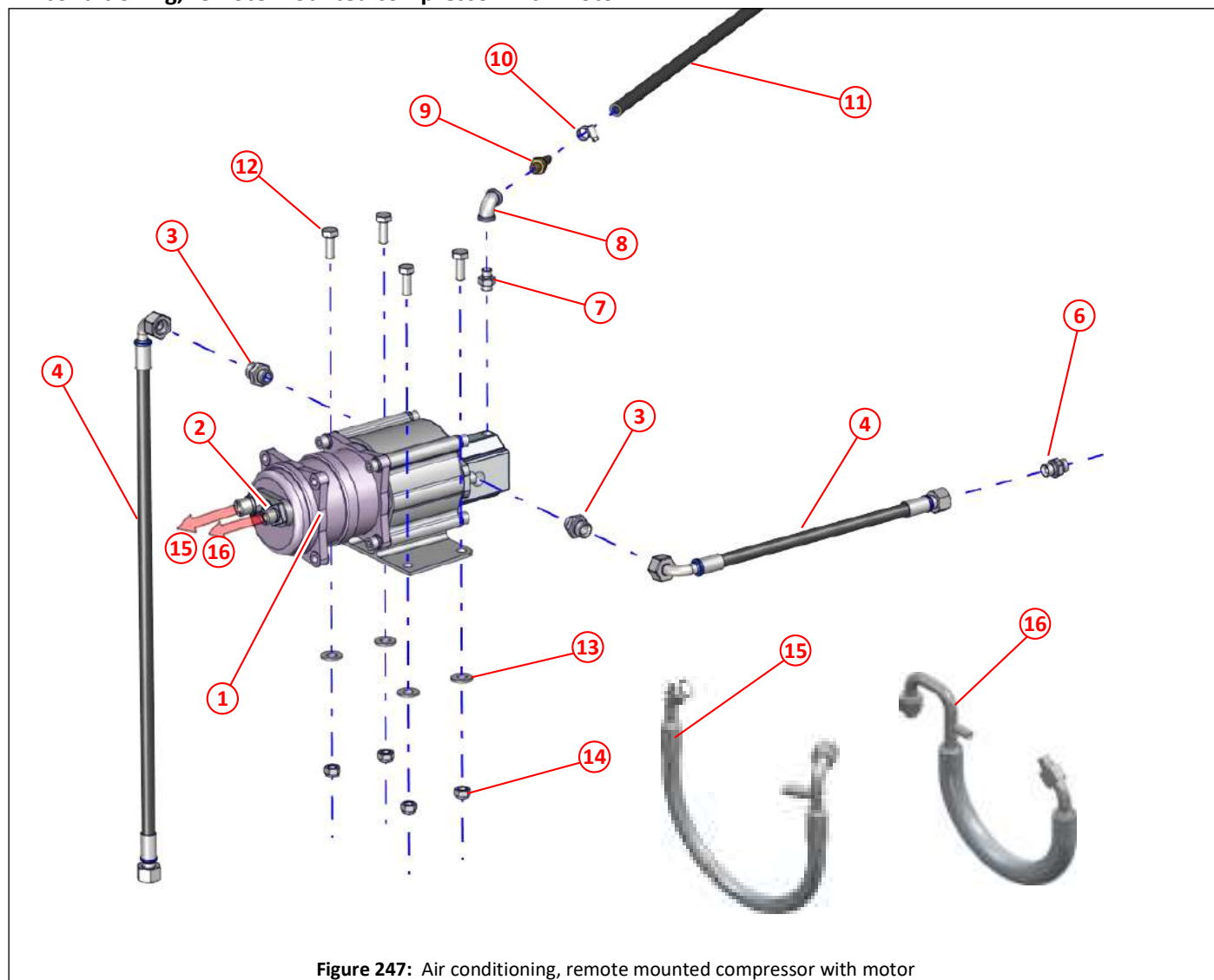


Figure 247: Air conditioning, remote mounted compressor with motor

Item	Part No	Qty	Description	
①	038731	1	Compressor with motor, air conditioning	
②	043103	1	Compressor manifold	
③	011194	2	Adapter $\frac{3}{4}$ " SAE x $\frac{1}{2}$ " BSP, complete with 'O' ring	
④	002129	1	Hose $\frac{1}{2}$ " BSP x 750, straight and 90° ends	
⑤	001319	1	Hose $\frac{3}{8}$ " x 750, $\frac{3}{8}$ " BSP straight and $\frac{1}{2}$ " BSP compact 90° ends	
⑥	020903	1	Adapter 12mm x $\frac{3}{8}$ " BSP	
⑦	011264	1	Adapter $\frac{9}{16}$ " SAE x $\frac{1}{4}$ " BSP, complete with 'O' ring	
⑧	010912	1	Elbow $\frac{1}{4}$ " BSP	
⑨	010922	1	Adapter $\frac{1}{4}$ " BSP x $\frac{3}{8}$ " hose tail	
⑩	010516	2	Clamp, worm drive, No. M00 [11-16mm]	
⑪	010958	As req	Hose $\frac{3}{8}$ ", to hydraulic return manifold	
⑫	011052	4	Set screw M12 x 30	
⑬	011096	4	Plain washer M12	
⑭	011077	4	Nyloc nut M12	
⑮	045286	1	Hose, compressor to conditioner coil	
⑯	045287	1	Hose, evaporator to compressor.	

i See engine section on page 303 for engine mounted air-conditioning compressor.

Air conditioning, manifold for air conditioning and steering pump returns, remote mounted compressor

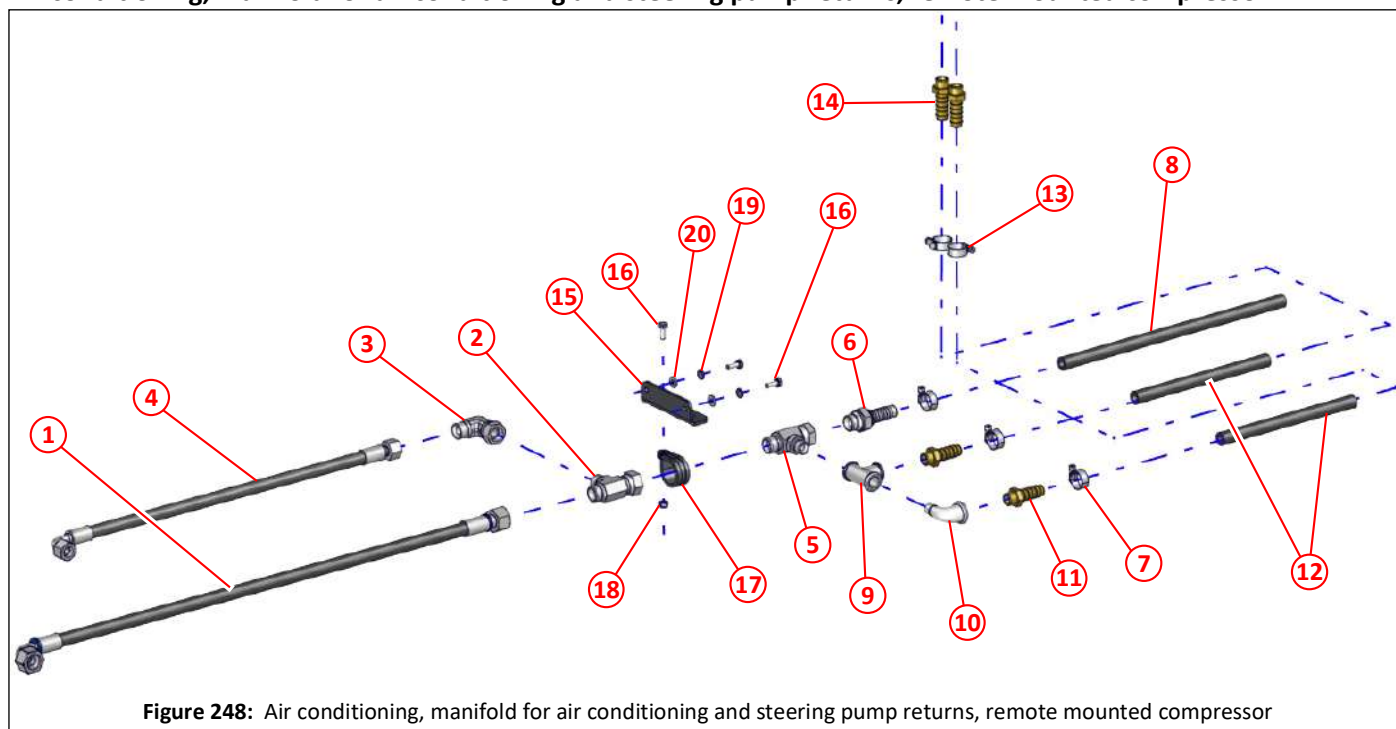
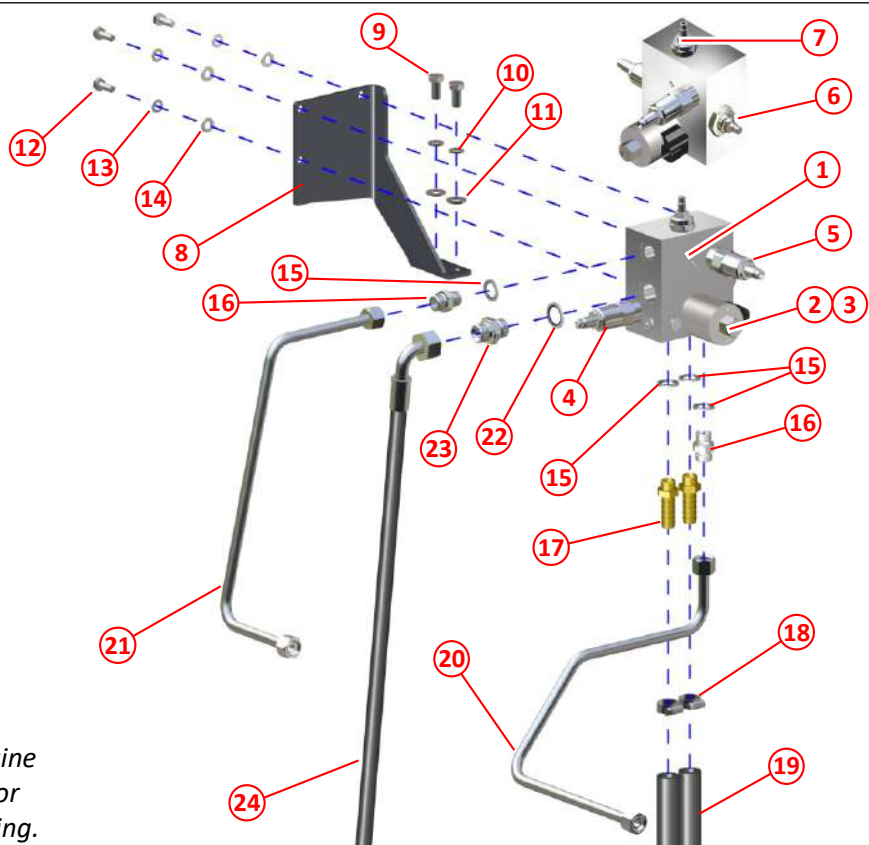
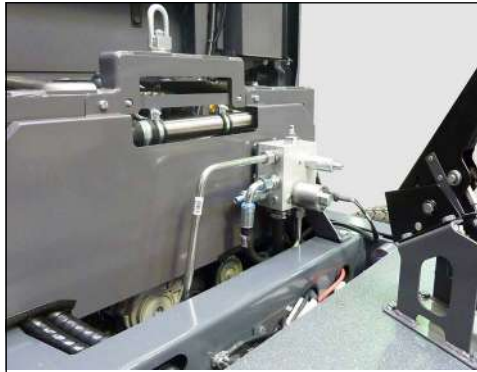


Figure 248: Air conditioning, manifold for air conditioning and steering pump returns, remote mounted compressor

Item	Part No	Qty	Description
①	002129	1	Hose $\frac{1}{2}$ " BSP x 750, straight and 90° ends, from compressor
②	011182	1	Tee $\frac{1}{2}$ " BSP, nut on run
③	011173	1	Swivel elbow, M/F, $\frac{1}{2}$ " BSP
④	001226	1	Hose $\frac{3}{8}$ " x 530, straight and 90° ends
⑤	002110	1	Tee $\frac{1}{2}$ " BSP M x $\frac{1}{2}$ " BSPP F x $\frac{3}{8}$ " BSP M, reducer on branch
⑥	002159	1	Adapter $\frac{1}{2}$ " BSPP x $\frac{5}{8}$ " hose tail
⑦	010517	3	Clamp, worm drive, No. 0X [18 - 25mm]
⑧	011000	As req	Hose $\frac{5}{8}$ ", to hydraulic return manifold
⑨	010941	1	Tee $\frac{3}{8}$ " BSP
⑩	010913	1	Elbow M/F $\frac{3}{8}$ " BSP
⑪	010930	2	Adapter $\frac{3}{8}$ " BSP x $\frac{5}{8}$ " hose tail
⑫	011000	As req	Hose $\frac{3}{8}$ ", to relief and regulator valve for air conditioning and power steering pump
⑬	010517	2	Clamp, worm drive, No. 0X [18 - 25mm]
⑭	010930	2	Adapter $\frac{3}{8}$ " BSP x $\frac{5}{8}$ " hose tail, attached to relief/regulator valve for air con and power steering
⑮	044406	1	Support bracket for manifold arrangement
⑯	011001	3	Set screw M6 x 16
⑰	024705	1	P-clip $\varnothing 35$
⑱	011071	1	Nyloc nut M6
⑲	011091	2	Spring washer M6
⑳	011090	2	Plain washer M6

Relief and regulator valve for air conditioning and power steering pump, remote mounted compressor



i This is for machines equipped with remote mounted air-conditioning. See page 199 for machines with engine mounted air-conditioning compressor and machines without air-conditioning.

Figure 249: Relief and regulator valve for air conditioning and power steering pump, remote mounted compressor

Item	Part No	Qty	Description	
①	044231	1	Manifold	
②	044053	1	Solenoid valve, SV10-21-0-N-00	
③	041224	1	Coil 12v / 20.5 watts	
④	044232	1	Relief valve RV10-22A-0-N-35/M170	
⑤	044233	1	Relief valve RV08-22A-0-N-35/M85	
⑥	044234	1	Flow regulator FR12-33A-0-N	
⑦	044235	1	Flow regulator FR10-39A-0-N	
⑧	043184	1	Mounting bracket	
⑨	011030	2	Set screw M10 x 20	
⑩	011095	2	Spring washer M10	
⑪	011094	2	Plain washer M10	
⑫	011010	3	Set screw M8 x 20	
⑬	011093	3	Spring washer M8	
⑭	011092	3	Plain washer M8	
⑮	011153	4	Dowty seal $\frac{3}{8}$ " BSP	
⑯	020903	2	Adapter 12mm x $\frac{3}{8}$ " BSP	
⑰	010930	2	Adapter hose tail $\frac{3}{8}$ " BSP x $\frac{5}{8}$ " hose	
⑱	010517	2	Clamp, worm drive, No. OX [18-25mm]	
⑲	011000	As req	Hose $\frac{5}{8}$ "	
⑳	043297	1	Steel pipe, power steering supply	
㉑	043296	1	Steel pipe, air conditioning supply	
㉒	011154	1	Dowty seal $\frac{1}{2}$ " BSP	
㉓	011160	1	Adapter $\frac{1}{2}$ " BSP	
㉔	002129	1	Hose $\frac{1}{2}$ " x 750, straight and 90° ends	
㉕	043056	1	AC and PAS valve block assembly, items ①, ②, ③, ④, ⑤, ⑥ and ⑦	292

Air conditioning, condenser coil and receiver drier arrangement

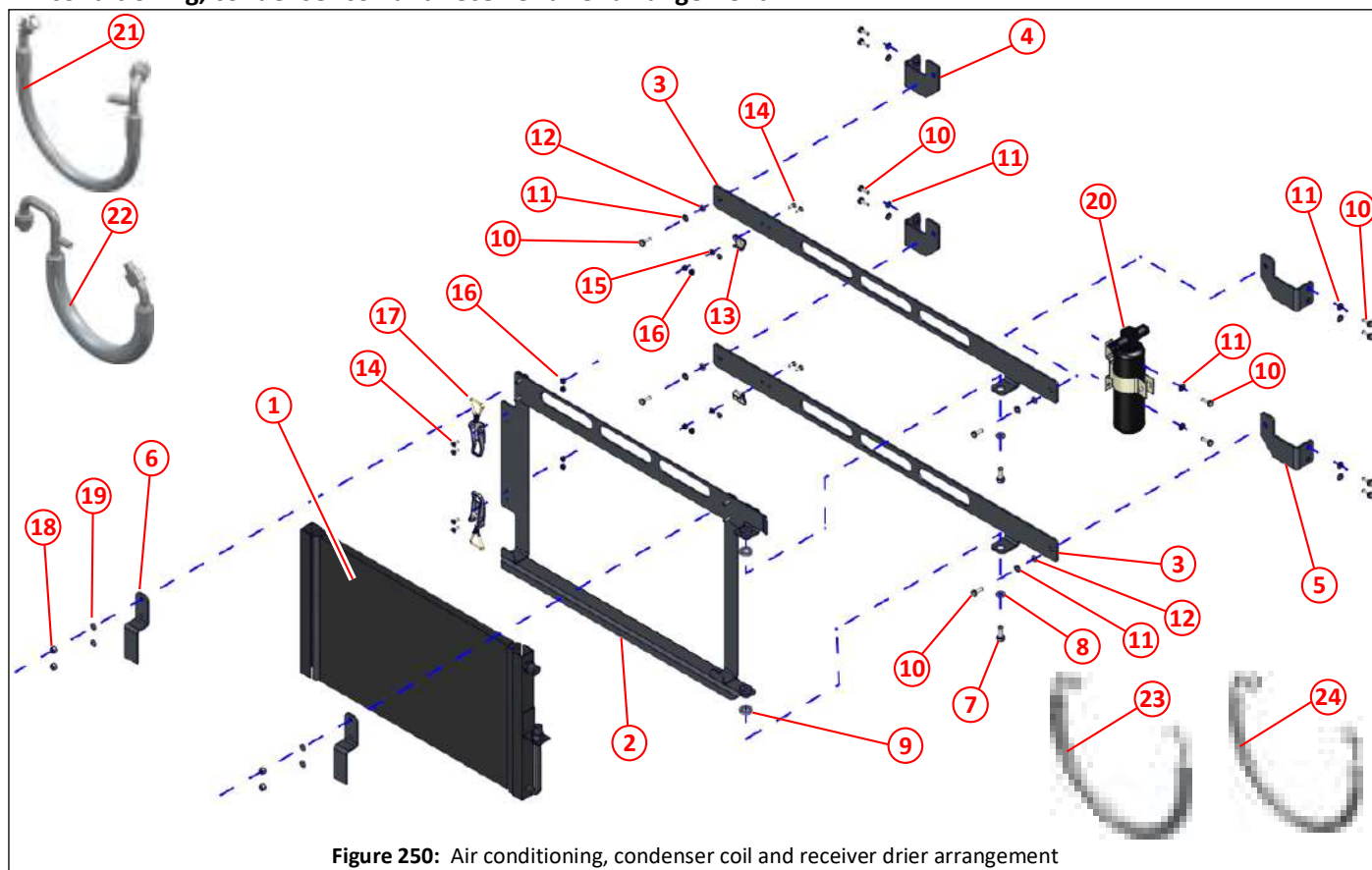


Figure 250: Air conditioning, condenser coil and receiver drier arrangement

Item	Part No	Qty	Description	
①	028977	1	Condenser coil	
②	033853	1	Condenser cradle	
③	041972	2	Mounting bracket, pivoting air con condenser	
④	044086	2	Mounting bracket, right hand, pivoting air con condenser	
⑤	044076	2	Mounting bracket, left hand, pivoting air con condenser	
⑥	032886	2	Upper condenser clamps	
⑦	011010	2	Set screw M8 x 20	
⑧	011092	2	Plain washer M8	
⑨	033855	2	Hinge spacer	
⑩	011001	14	Set screw M6 x 16	
⑪	011091	12	Spring washer M6	
⑫	011090	4	Plain washer M6	
⑬	021841	2	Hook, toggle clip	
⑭	000439	8	Screw countersunk pozidrive M5 x 12, zinc/clear plated	
⑮	000410	4	Plain washer M5	
⑯	000155	8	Nyloc nut M5	
⑰	010509	2	Toggle hinge	
⑱	011070	4	Nut, full M6	
⑲	011090	4	Plain washer M6	
⑳	043197	1	Receiver drier, with mounting bracket	
㉑	045286	1	Hose, compressor to conditioner coil	
㉒	045287	1	Hose, evaporator to compressor.	
㉓	041993	1	Hose, from receiver/drier to evaporator	
㉔	041994	1	Hose, from condenser coil to receiver/drier	

Engine

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DEUTZ TCD 2.9 L4 engine, no air conditioning compressor

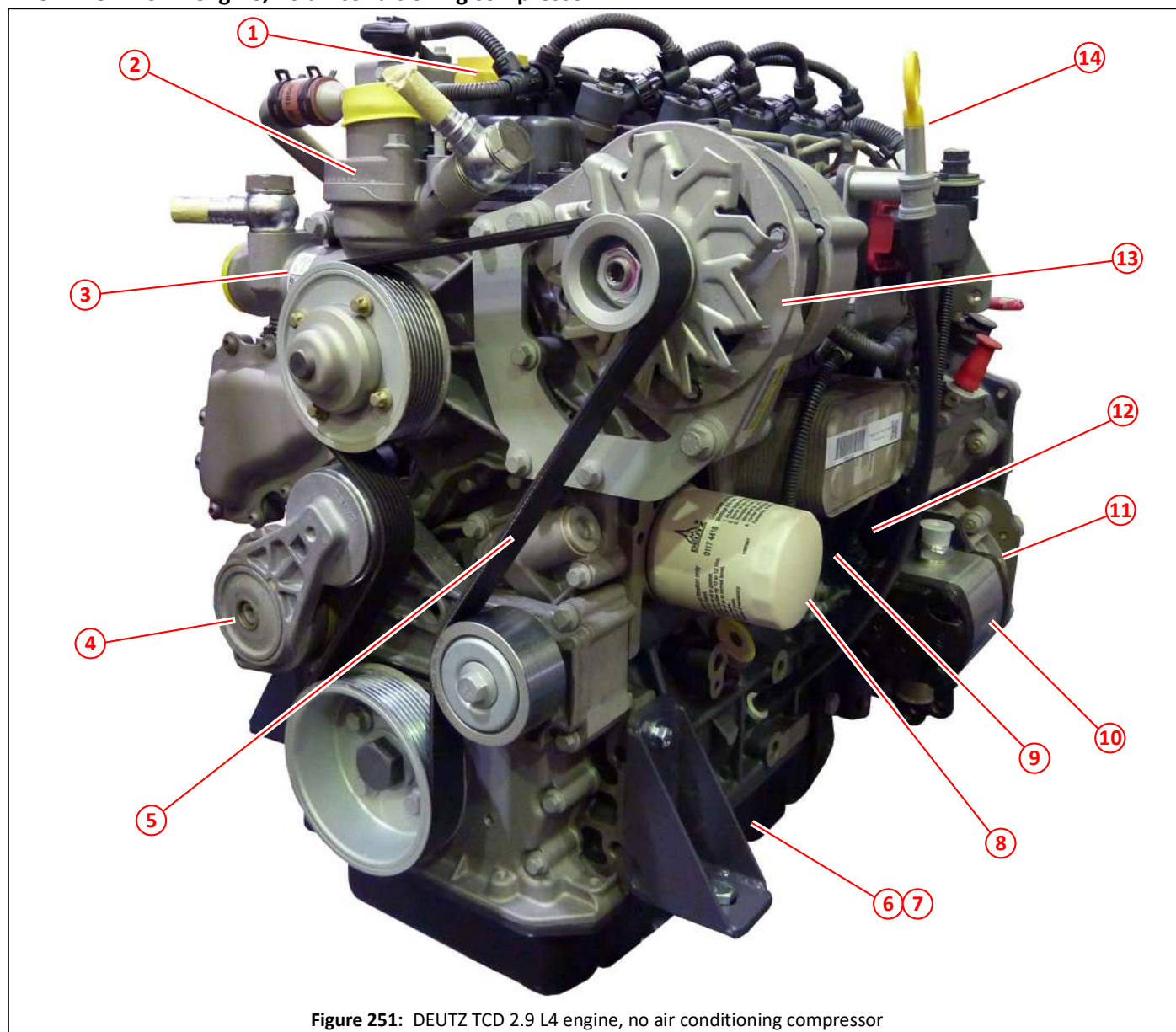


Figure 251: DEUTZ TCD 2.9 L4 engine, no air conditioning compressor

Item	Part No	Qty	Description	
①	043781	1	Filler cap, lubrication oil	
②	043806	1	Thermostat	
③	043805	1	Coolant pump	
④	043815	1	V belt tensioner	
⑤	043807	1	V ribbed belt	
⑥	043224	1	Sump plug	
⑦	043225	1	Washer, sump plug	
⑧	042232	1	Oil filter, engine lubrication	
⑨	043785	1	Pressure sensor, oil	
⑩	042080	1	Power steering pump	
⑪	043810	1	Oil pump, engine lubrication	
⑫	043797	1	Speed sensor, camshaft	
⑬	043790	1	Alternator, 14v 120A	
⑭	043801	1	Dipstick	

i Please note, any engine parts not listed but required then please contact Scarab Parts Department.

DEUTZ TCD 2.9 L4 engine, no air conditioning compressor

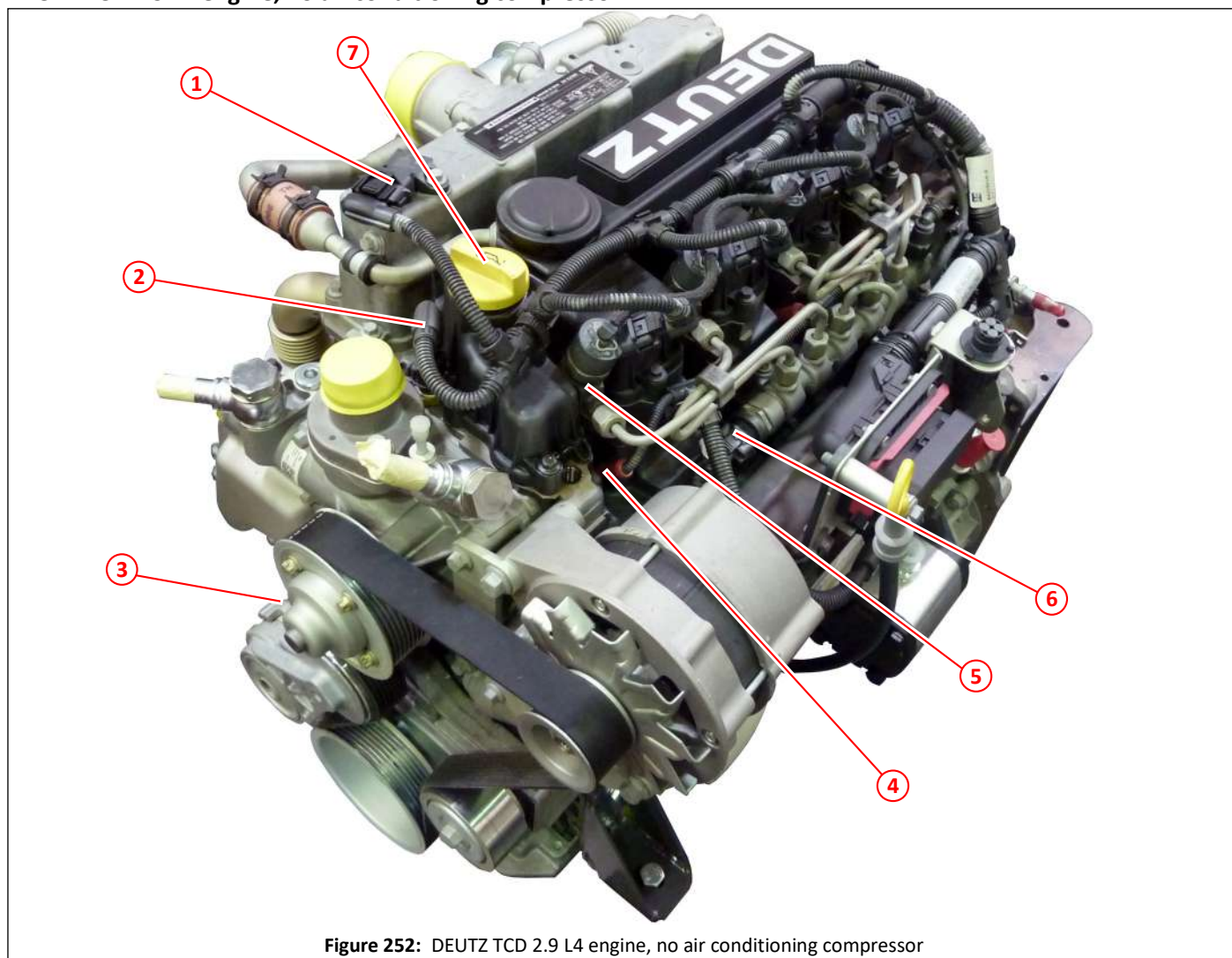
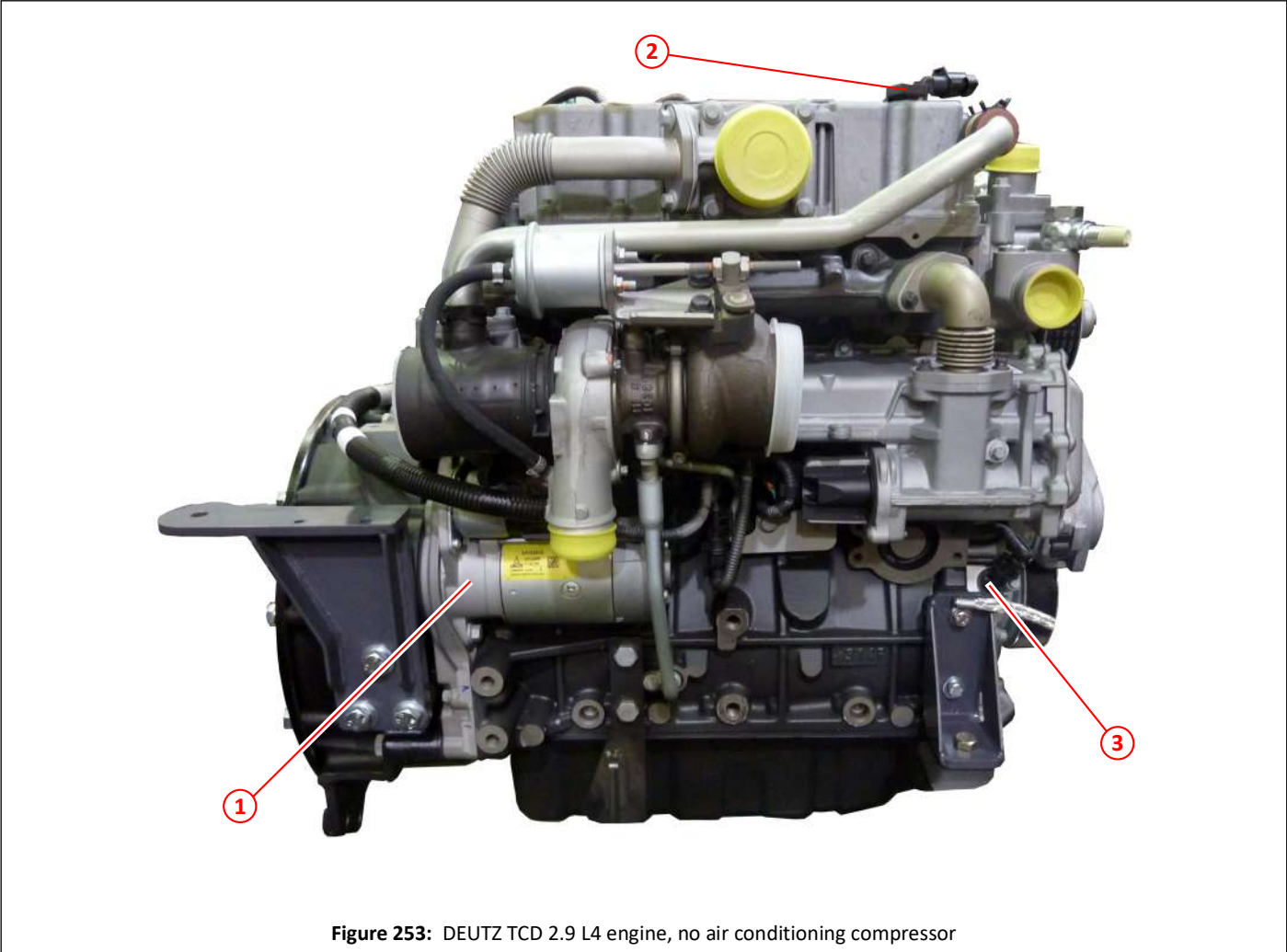


Figure 252: DEUTZ TCD 2.9 L4 engine, no air conditioning compressor

Item	Part No	Qty	Description	
①	043798	1	Sensor, air pressure	
②	043814	1	Coolant temperature sender	
③	043797	1	Speed sensor, crankshaft	
④	043809	4	Glow plug	
⑤	043804	4	Injector	
⑥	046260	1	Pressure sensor, rail	
⑦	043781	1	Filler cap, lubrication oil	

i Please note, any engine parts not listed but required then please contact Scarab Parts Department.

DEUTZ TCD 2.9 L4 engine, no air conditioning compressor



Item	Part No	Qty	Description	
①	043808	1	Starter motor, 12v 2.6KW	
②	043798	1	Sensor, air pressure	
③	043797	1	Speed sensor, crankshaft	

 Please note, any engine parts not listed but required then please contact Scarab Parts Department.

DEUTZ TCD 2.9 L4 engine, with air conditioning compressor

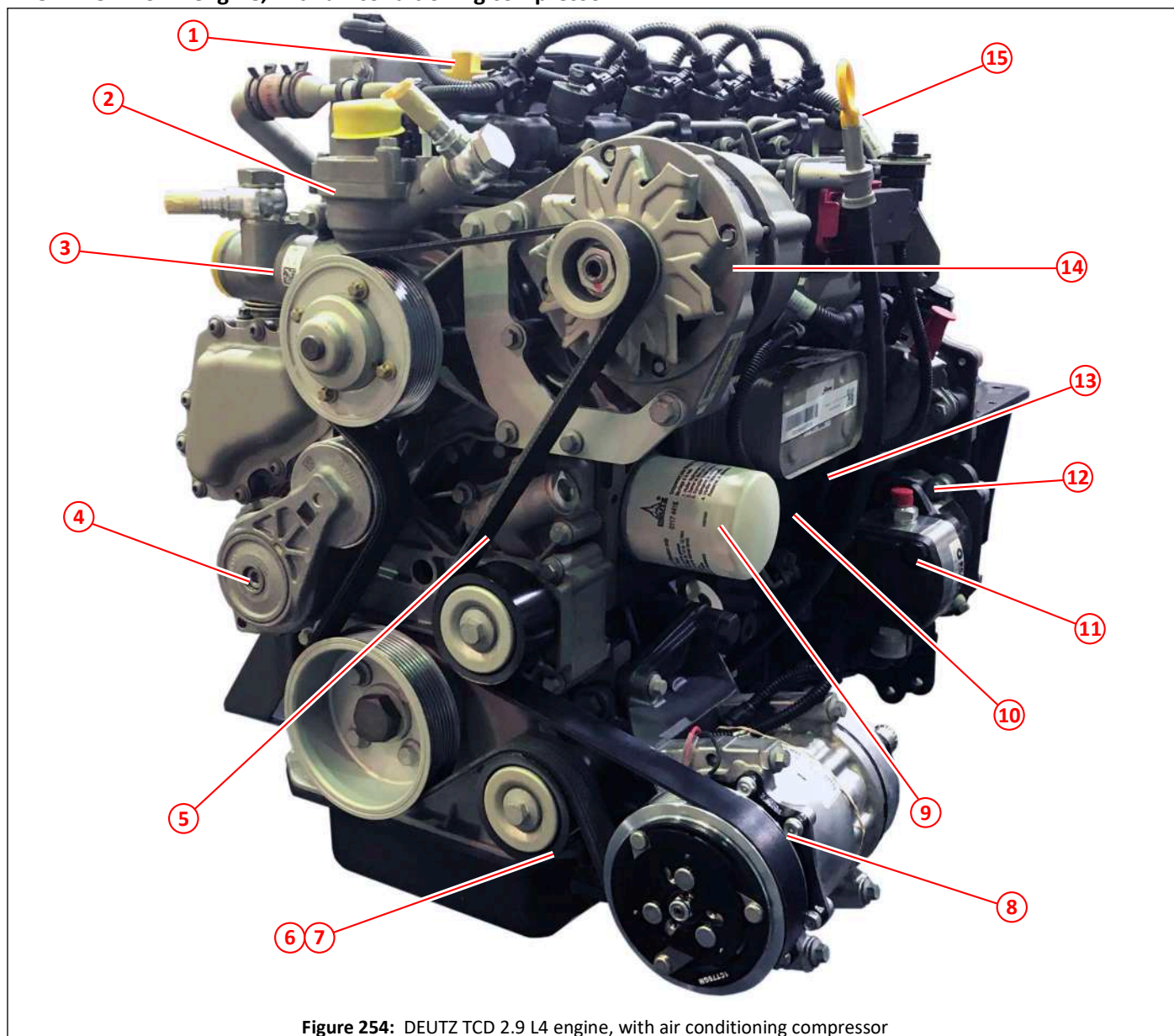


Figure 254: DEUTZ TCD 2.9 L4 engine, with air conditioning compressor

Item	Part No	Qty	Description	
①	043781	1	Filler cap, lubrication oil	
②	043806	1	Thermostat	
③	043805	1	Coolant pump	
④	043815	1	V belt tensioner	
⑤	045084	1	V ribbed belt, for use with engine mounted air conditioning compressor	
⑥	043224	1	Sump plug, on side of sump pan	
⑦	043225	1	Washer, sump plug	
⑧	045083	1	Air conditioning compressor, engine mounted	
⑨	042232	1	Oil filter, engine lubrication	
⑩	043785	1	Pressure sensor, oil	
⑪	042080	1	Power steering pump	
⑫	043810	1	Oil pump, engine lubrication	
⑬	043796	1	Speed sensor, camshaft	
⑭	043790	1	Alternator, 14v 120A	
⑮	043801	1	Dipstick	

i Please note, any engine parts not listed but required then please contact Scarab Parts Department.

DEUTZ TCD 2.9 L4 engine, with air conditioning compressor

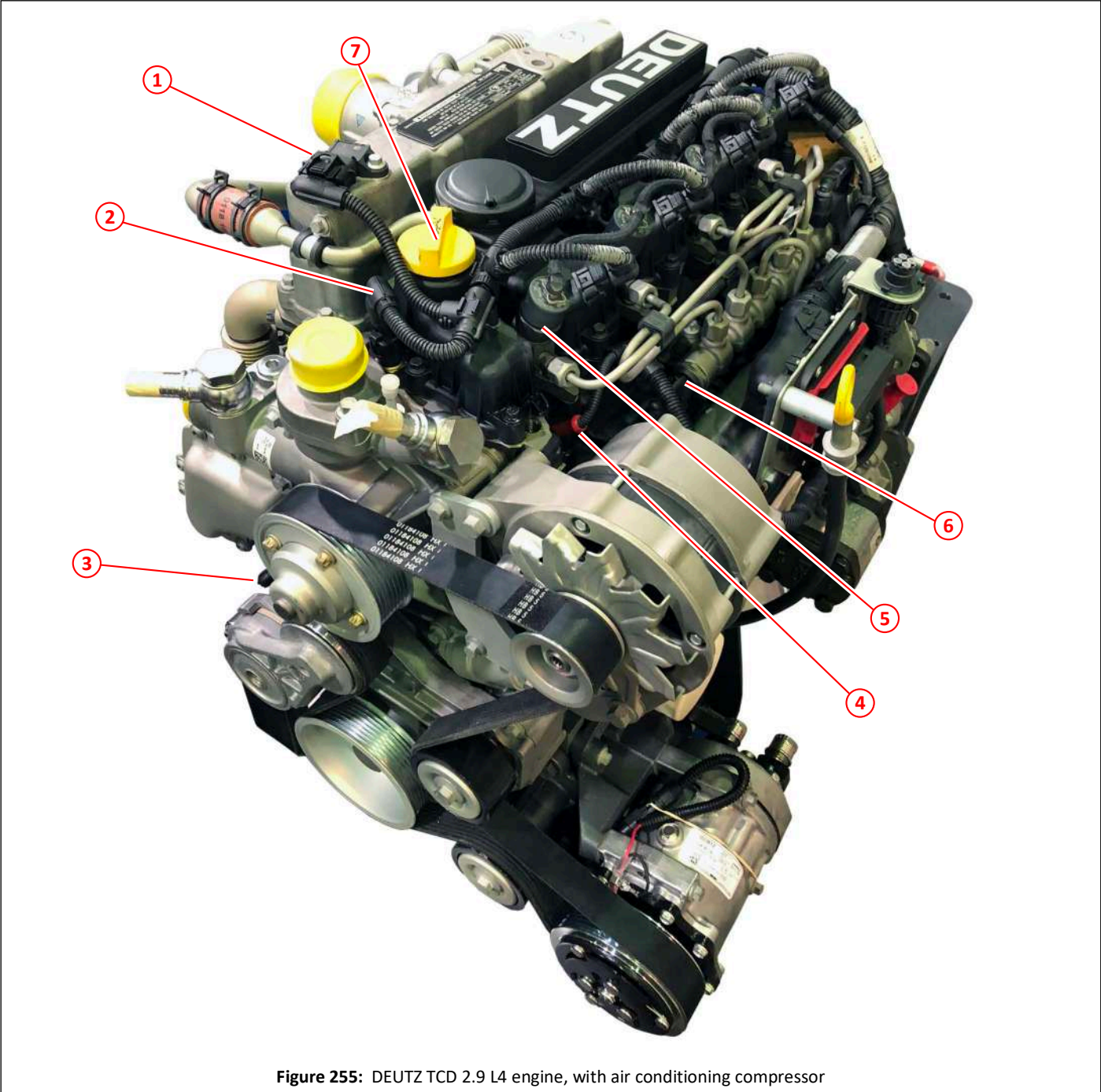


Figure 255: DEUTZ TCD 2.9 L4 engine, with air conditioning compressor

Item	Part No	Qty	Description	
①	043798	1	Sensor, air pressure	
②	043814	1	Coolant temperature sender	
③	043796	1	Speed sensor, crankshaft	
④	043809	4	Glow plug	
⑤	043804	4	Injector	
⑥	046260	1	Pressure sensor, rail	
⑦	043781	1	Filler cap, lubrication oil	

 Please note, any engine parts not listed but required then please contact Scarab Parts Department.

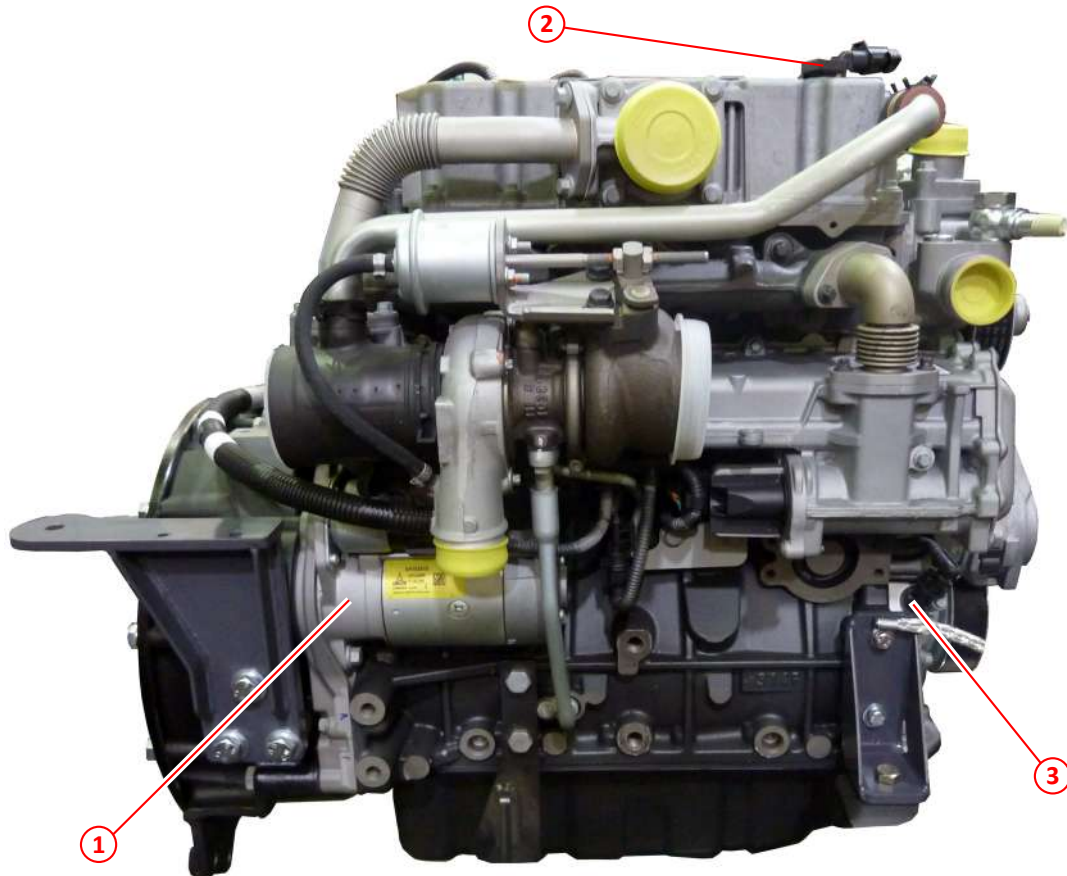
DEUTZ TCD 2.9 L4 engine, with air conditioning compressor


Figure 256: DEUTZ TCD 2.9 L4 engine, with air conditioning compressor

Item	Part No	Qty	Description	
①	043808	1	Starter motor, 12v 2.6KW	
②	043798	1	Sensor, air pressure	
③	043797	1	Speed sensor, crankshaft	

i Please note, any engine parts not listed but required then please contact Scarab Parts Department.

Engine mountings for engine without attached air-con

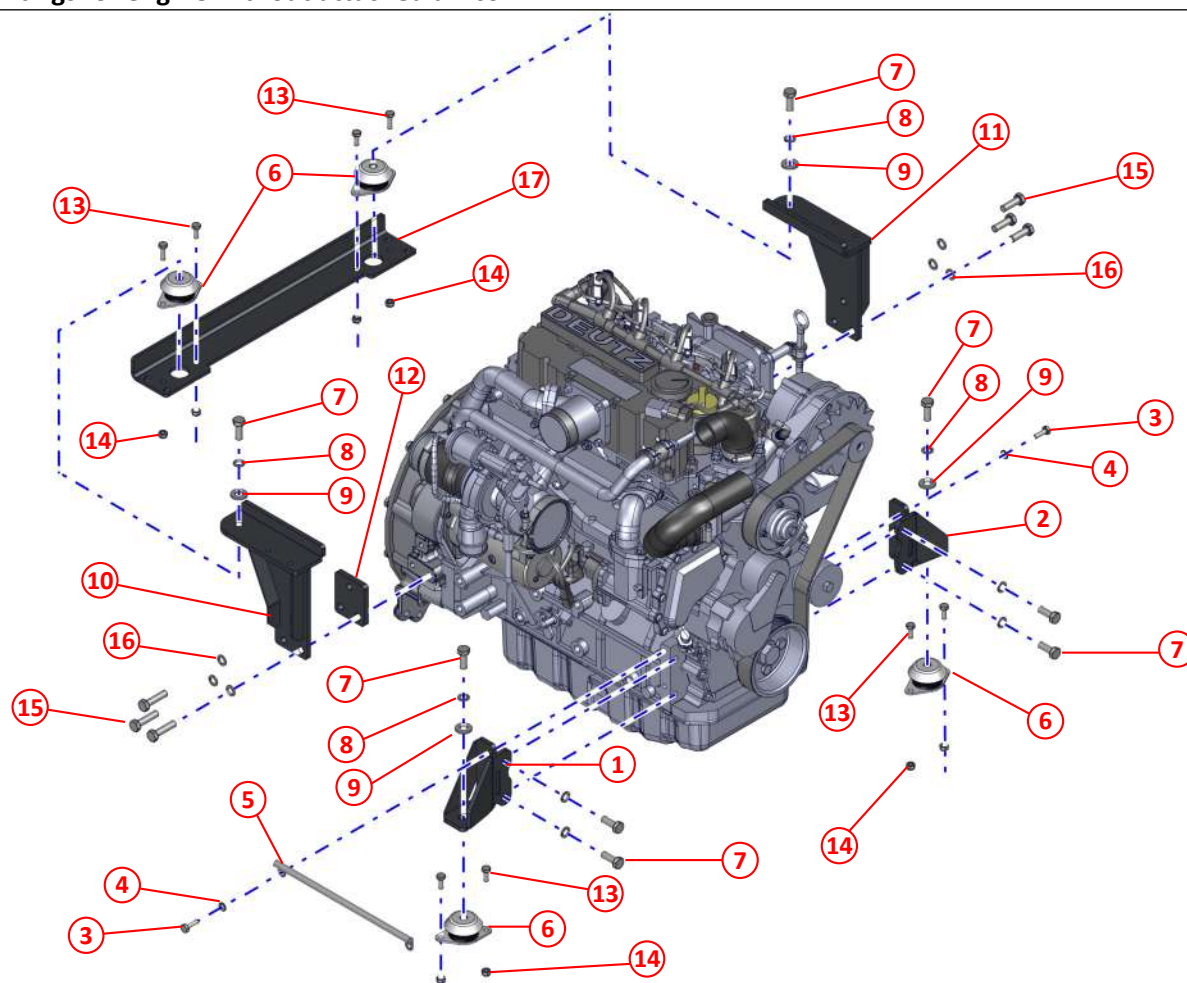


Figure 257: Engine mountings for engine without attached air-con

Item	Part No	Qty	Description	
①	041716	1	Bracket, engine mounting, front right hand	
②	045772	1	Bracket, engine mounting, front left hand	
③	011011	2	Set screw M8 x 25	
④	011093	2	Spring washer M8	
⑤	014156	1	Earth strap	
⑥	036512	4	Engine mount	
⑦	011052	8	Set screw M12 x 30	
⑧	011097	8	Spring washer M12	
⑨	011096	4	Plain washer M12	
⑩	041484	1	Mount, engine rear, right hand	
⑪	041483	1	Mount, engine rear, left hand	
⑫	041488	1	Spacer	
⑬	011010	8	Set screw M8 x 20	
⑭	011073	8	Nyloc nut M8	
⑮	011054	6	Set screw M12 x 45	
⑯	011097	6	Spring washer M12	
⑰	041485	1	X-member, engine mounts	

Engine mountings for engine with attached air-con

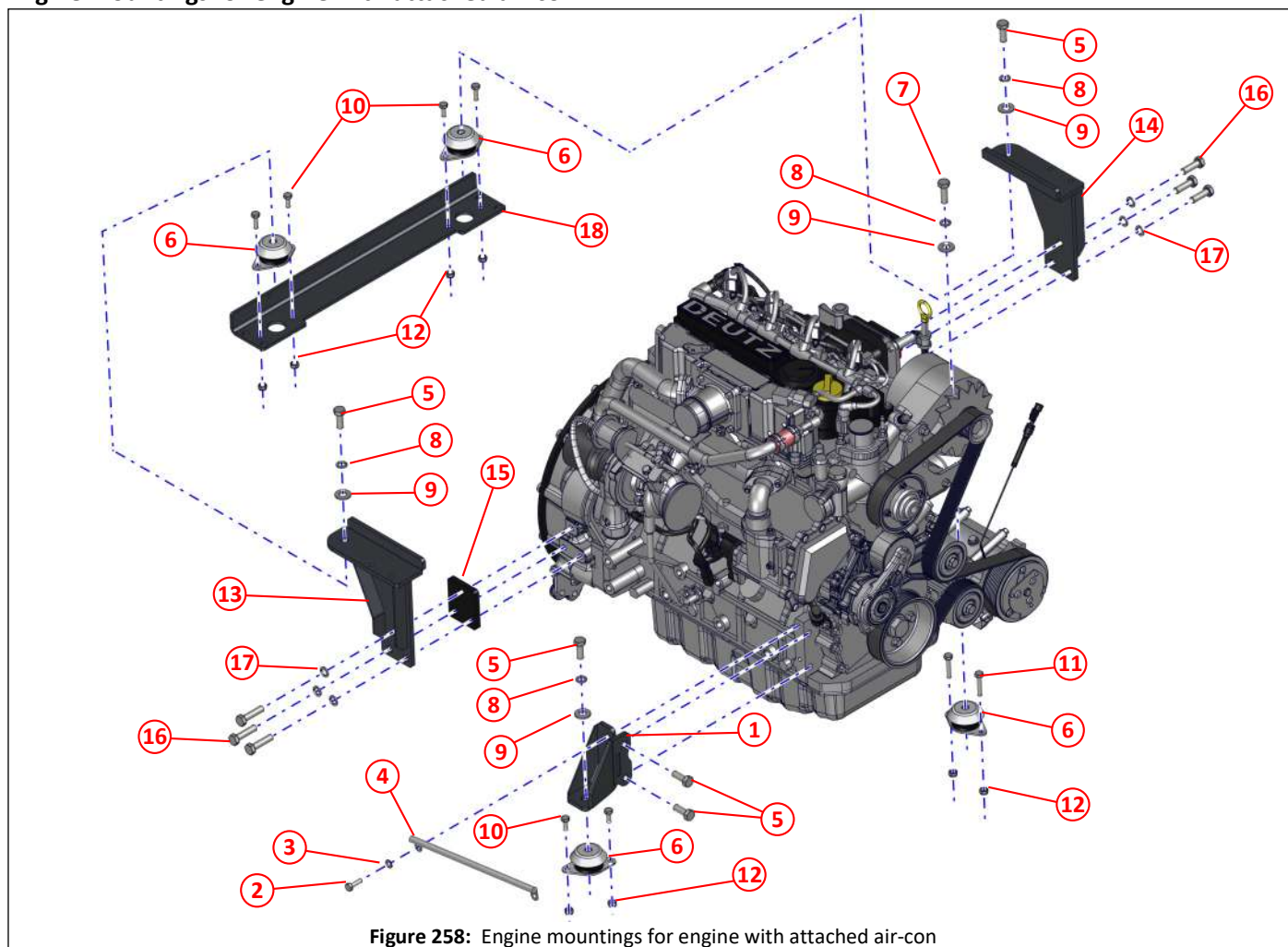


Figure 258: Engine mountings for engine with attached air-con

Item	Part No	Qty	Description	
①	041716	1	Bracket, engine mounting, front right hand.	
②	011011	1	Set screw M8 x 25	
③	011093	1	Spring washer M8	
④	014156	1	Earth strap	
⑤	011052	5	Set screw M12 x 30	
⑥	036512	4	Engine mount	
⑦	011053	1	Set screw M12 x 35	
⑧	011097	4	Spring washer M12	
⑨	011096	4	Plain washer M12	
⑩	011010	6	Set screw M8 x 20	
⑪	011014	2	Set screw M8 x 40	
⑫	011073	12	Nyloc nut M8	
⑬	041484	1	Mount, engine rear, right hand	
⑭	041483	1	Mount, engine rear, left hand	
⑮	041488	1	Spacer	
⑯	011054	6	Set screw M12 x 45	
⑰	011097	6	Spring washer M12	
⑱	041485	1	X-member, engine mounts	

Flywheel adapter and pump mounting plate

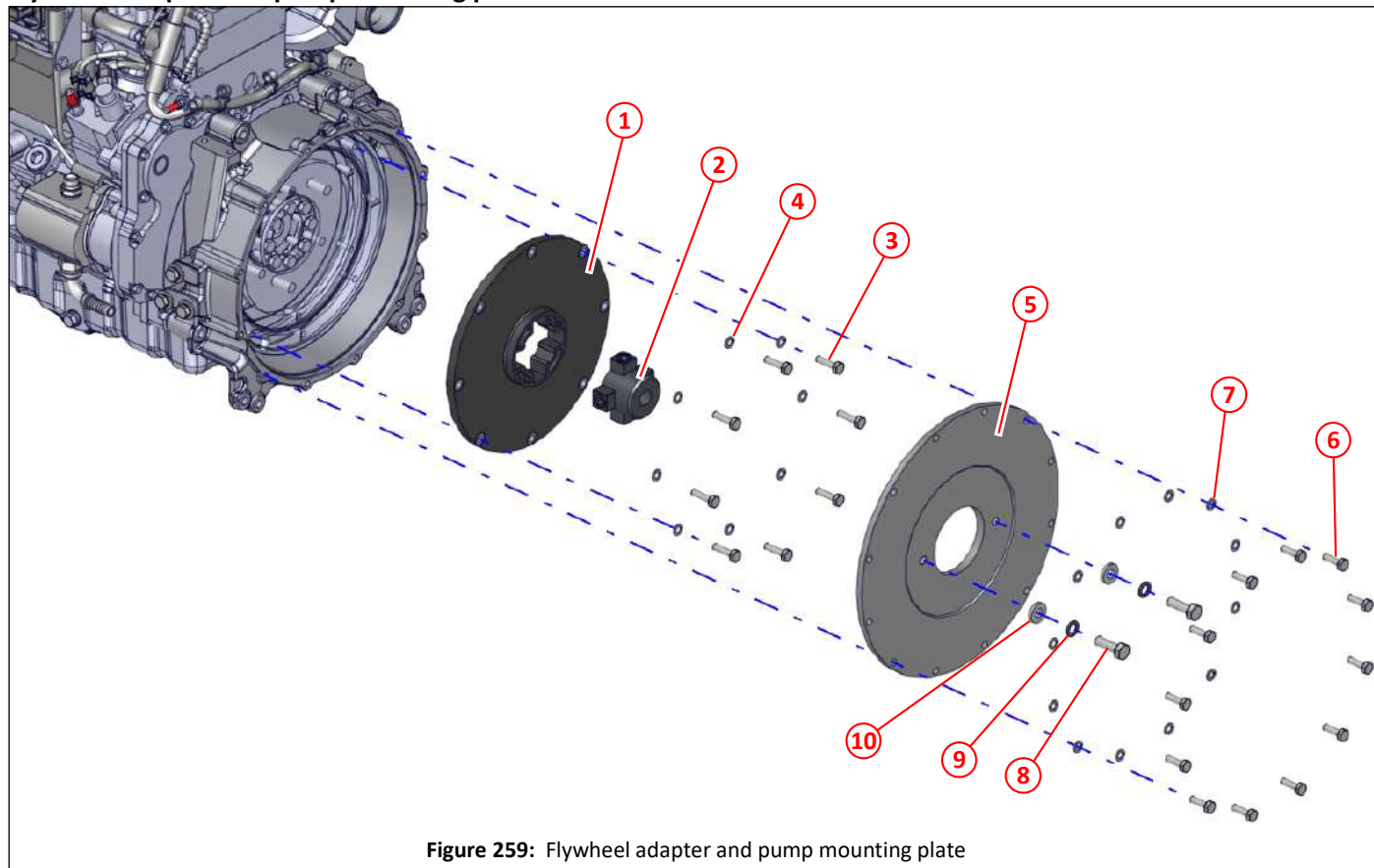


Figure 259: Flywheel adapter and pump mounting plate

Item	Part No	Qty	Description	
①	042106	1	Flywheel adapter	
②	032884	1	Coupling hub	
③	011033	8	Set screw M10 x 35	
④	011095	8	Spring washer M10	
⑤	042107	1	Mounting plate, pump	
⑥	011032	12	Set screw M10 x 30	
⑦	011095	12	Spring washer M10	
⑧	011126	2	Set screw M14 x 40	
⑨	011106	2	Spring washer M14	
⑩	020030	2	Washer $\varnothing 14.5 \times \varnothing 30 \times 5$	

Engine covers

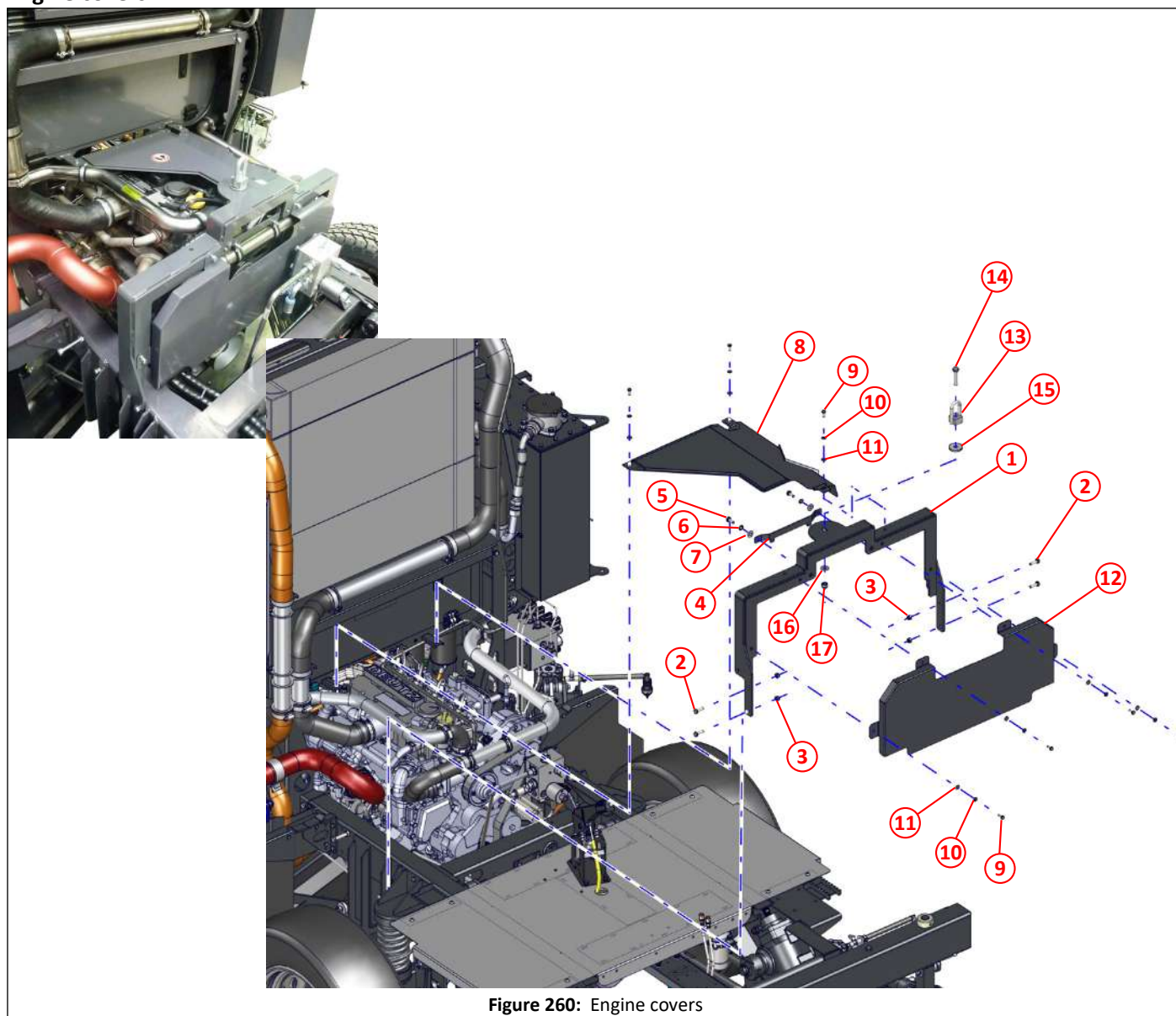


Figure 260: Engine covers

Item	Part No	Qty	Description	
①	044467	1	Bracket, cab locking	
②	011011	4	Set screw M8 x 25	
③	011073	4	Nyloc nut M8	
④	043275	1	Support bracket, radiator pipe	
⑤	011010	2	Set screw M8 x 20	
⑥	011093	2	Spring washer M8	
⑦	011092	2	Plain washer M8	
⑧	044468	1	Cover, engine top	
⑨	000250	7	Set screw M6 x 16, stainless steel	
⑩	000255	7	Spring washer M6, stainless steel	
⑪	000254	7	Plain washer M6, stainless steel	
⑫	044469	1	Cover, engine front	
⑬	021904	1	Eye, cab latch	
⑭	011035	1	Set screw M10 x 50	
⑮	030537	1	Washer ø10.5 x ø40 x 5	
⑯	011094	1	Plain washer M10	
⑰	011075	1	Nyloc nut M10	

Air intake stack and filter system

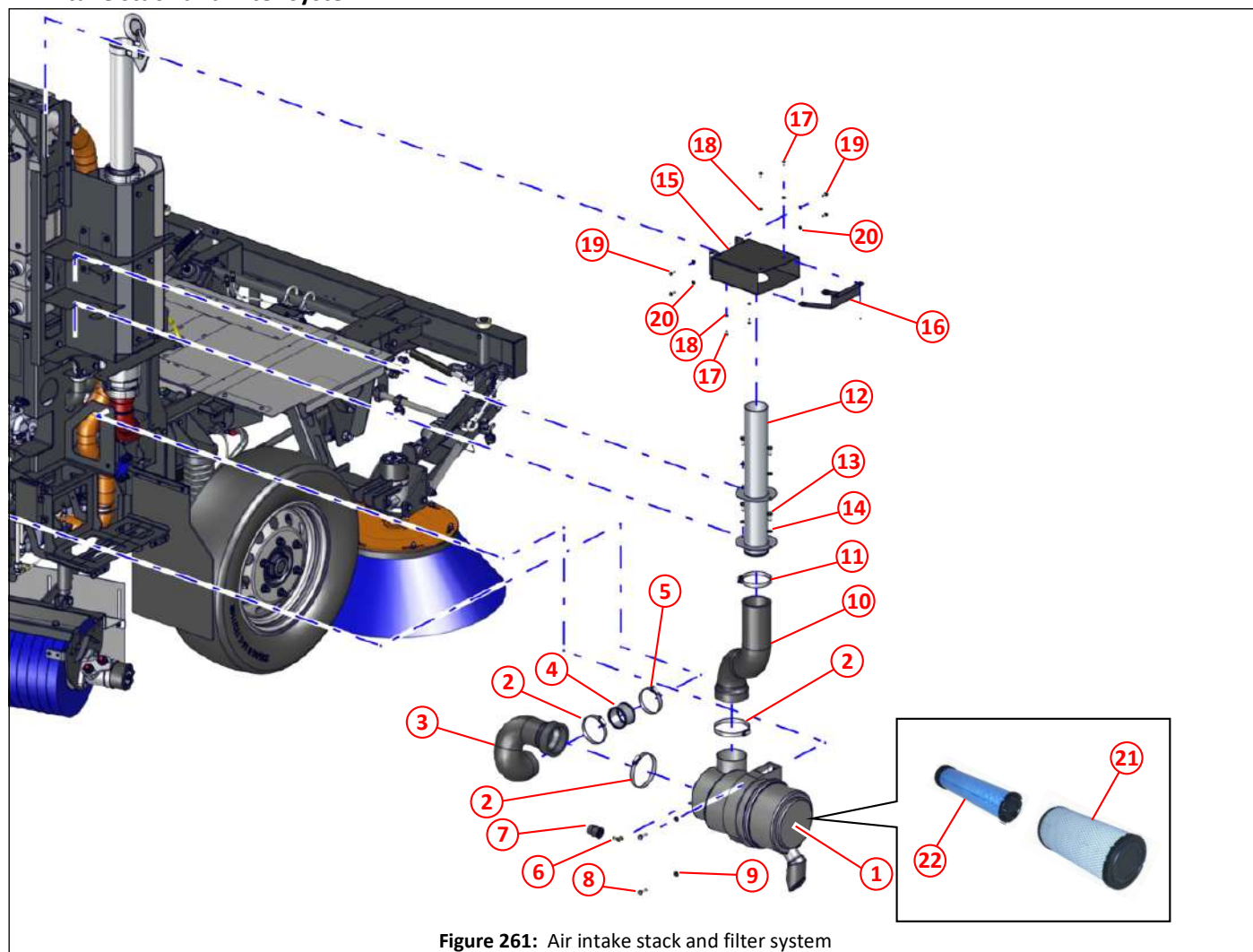


Figure 261: Air intake stack and filter system

Item	Part No	Qty	Description	
①	025279	1	Air filter assembly	
②	003003	3	Clamp, worm drive, No. 5 [90-120mm]	
③	041882	1	Hose 1, air intake	
④	041896	1	Air intake stub	
⑤	005112	1	Clamp, worm drive, No. 3 [60-80mm]	
⑥	034343	1	Elbow, filter blocked sender	
⑦	042136	1	Sender, filter blocked, 5.0kPa	
⑧	011011	2	Set screw M8 x 25	
⑨	000265	2	Spring washer, M8, stainless steel	
⑩	041888	1	Hose, air stack	
⑪	012931	1	Clamp, worm drive, No. 4 [70-90mm]	
⑫	041898	1	Air stack	
⑬	011010	4	Set screw M8 x 20	
⑭	011093	4	Spring washer M8	
⑮	042375	1	Duct, air intake	
⑯	043868	1	Splash guard, air intake duct	
⑰	000476	4	Socket button head screw M5, zinc plated	
⑱	000410	4	Plain washer M5	
⑲	011001	4	Set screw M6 x 16	
⑳	011091	4	Spring washer M6	
㉑	025280	1	Filter element, air intake	
㉒	025281	1	Filter element, air intake safety element	

Intercooler cooling system arrangement

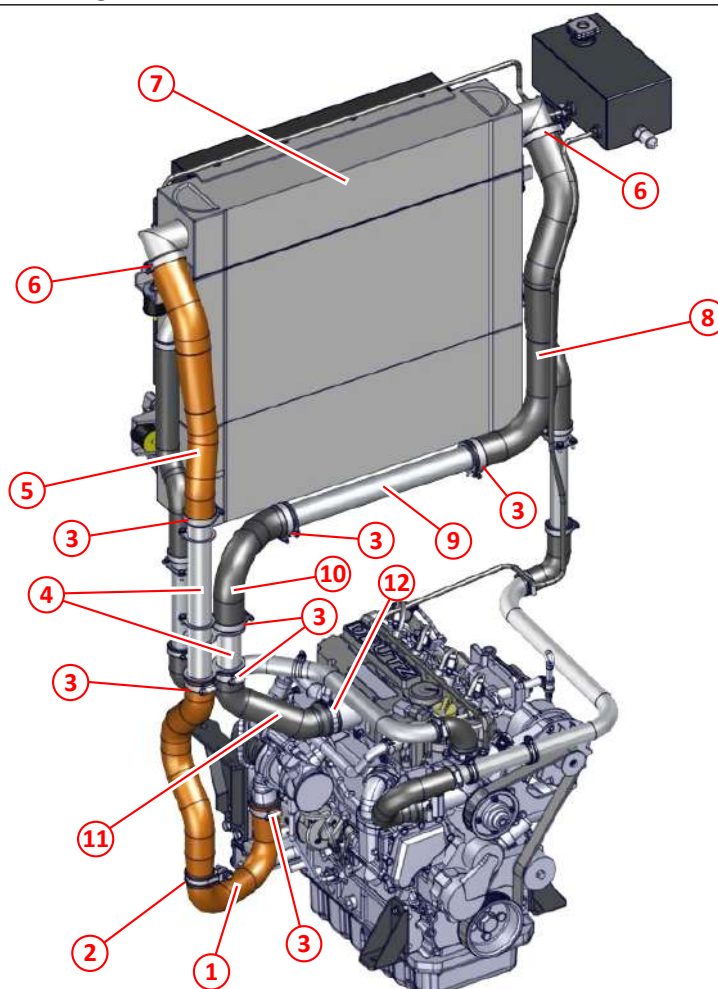


Figure 262: Intercooler cooling system arrangement

Item	Part No	Qty	Description	
①	041883	1	Hose 2, air intake	
②	005055	1	P-clip ø50	
③	028778	6	Clamp, worm drive, high torque [40-70mm]	
④	041889	1	Pipe 1, air intake	
⑤	041884	1	Hose3, air intake	
⑥	021212	2	Clamp, worm drive, high torque [60-80mm]	
⑦	041663	1	Cooler assembly	
⑧	041885	1	Hose 4, air intake	
⑨	041890	1	Pipe 2, air intake	
⑩	041886	1	Hose 5, air intake	
⑪	043060	1	Hose 6, air intake	
⑫	005112	1	Clamp, worm drive, No. 3 [60-80mm]	

Engine cooling system arrangement

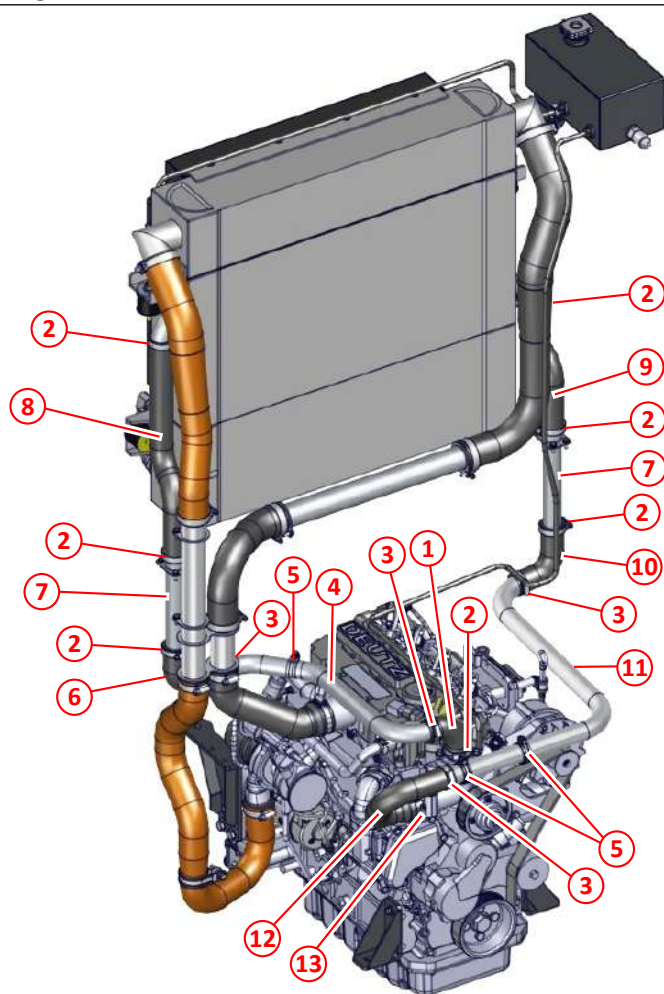


Figure 263: Engine cooling system arrangement

Item	Part No	Qty	Description	
①	043099	1	Hose 1, radiator	
②	012927	7	Clamp, worm drive, No. 2 [40-55mm]	
③	003007	3	Clamp, worm drive, No. 2A [35-50mm]	
④	043097	1	Pipe, steel, radiator, right hand	
⑤	024705	3	P-clip ø35	
⑥	043273	1	Hose, radiator, right hand	
⑦	041871	2	Pipe 2, radiator	380
⑧	041865	1	Hose 3, radiator	
⑨	041866	1	Hose 4, radiator	
⑩	043274	1	Hose, radiator, left hand	
⑪	043098	1	Pipe, steel, radiator, left hand	
⑫	041869	1	Hose 7, radiator	
⑬	028778	1	Clamp, worm drive, high torque [40-70mm]	

Expansion tank, cooling system arrangement

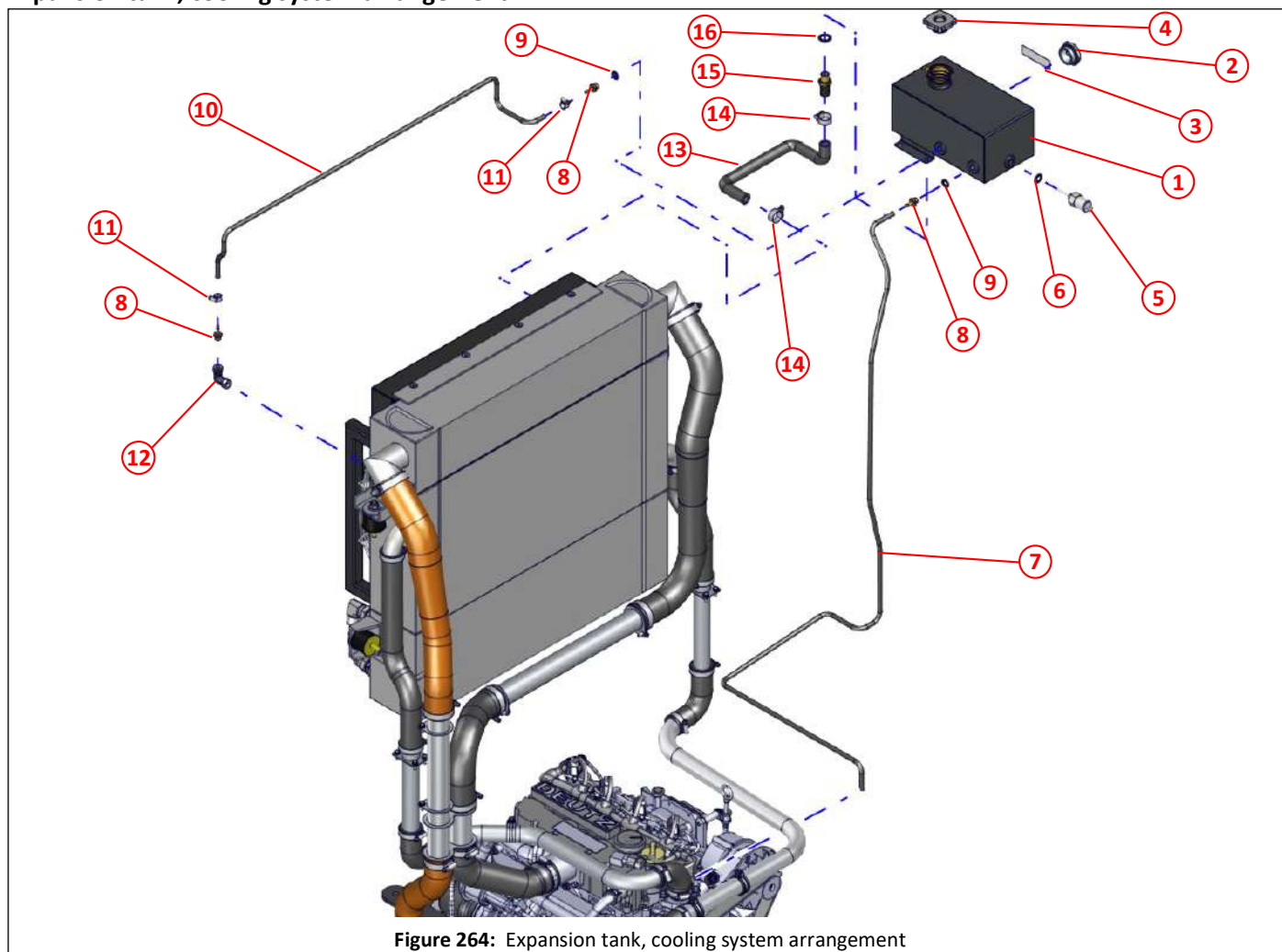


Figure 264: Expansion tank, cooling system arrangement

Item	Part No	Qty	Description	
①	041936	1	Expansion tank	
②	042333	1	Sight glass, bulls-eye, 1 $\frac{1}{4}$ " BSP	
③	036223	1	Label, coolant grade	
④	041945	1	Filler cap, expansion tank	
⑤	041698	1	Level sensor, expansion tank	
⑥	0111216	1	Dowty seal M14	
⑦	042819	1	Pipe, engine vent to expansion tank	
⑧	010925	3	Adapter, $\frac{1}{4}$ " BSP x $\frac{1}{4}$ " hose tail	
⑨	011152	2	Dowty seal $\frac{1}{4}$ " BSP	
⑩	041976	1	Pipe, radiator vent to expansion tank	
⑪	010516	2	Clamp, worm drive, No M00 [11-16mm]	
⑫	011169	1	Elbow, swivel, F/F, $\frac{1}{4}$ " BSP	
⑬	041897	1	Hose, expansion tank	
⑭	003019	2	Clamp, worm drive, No 2A [22-30mm]	
⑮	025181	1	Adapter, $\frac{1}{2}$ " BSP x $\frac{3}{4}$ " hose tail	
⑯	01154	1	Dowty seal $\frac{1}{2}$ " BSP	

Exhaust system arrangement

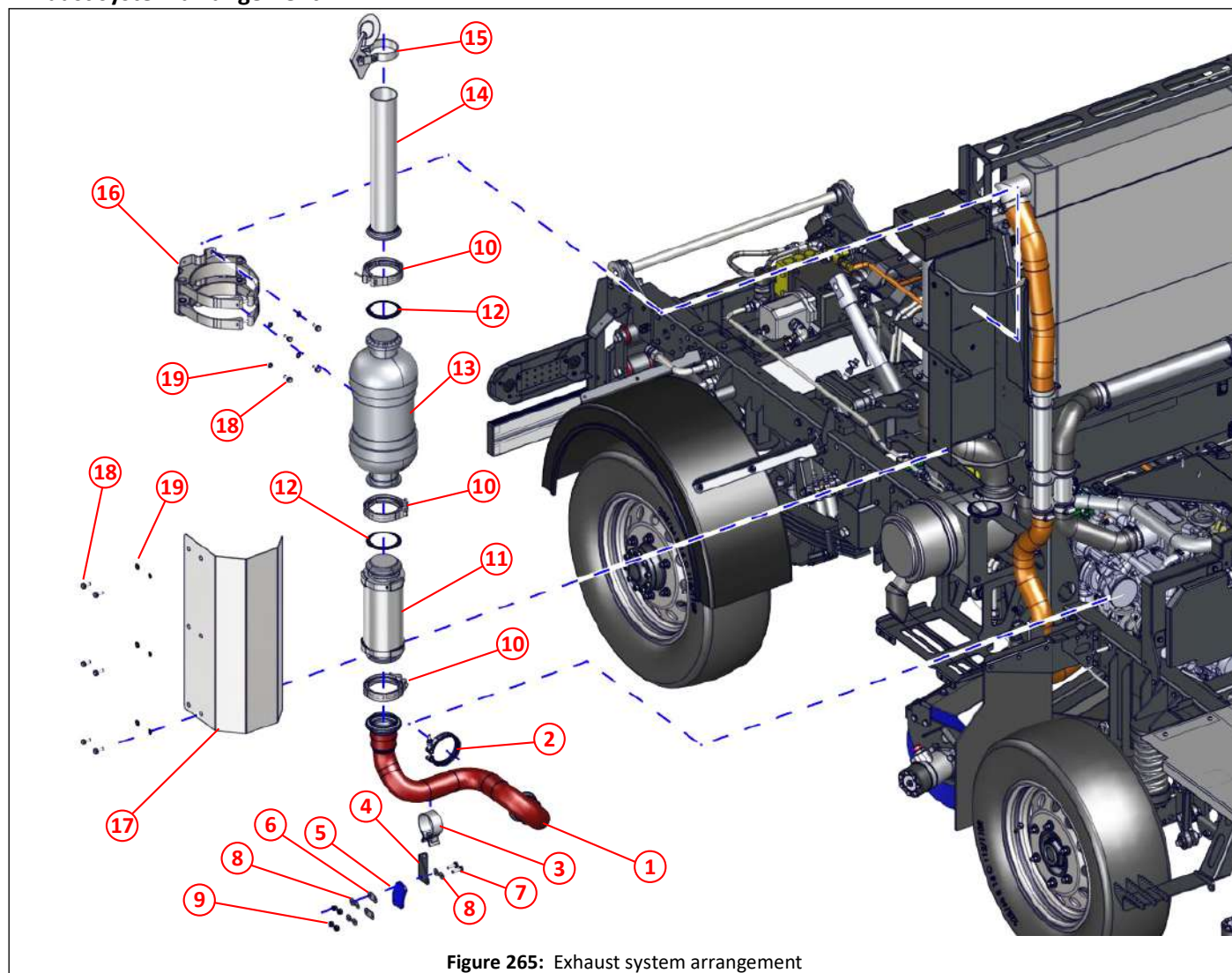


Figure 265: Exhaust system arrangement

Item	Part No	Qty	Description	
①	041899	1	Exhaust	
②	041696	1	V-clamp, turbo	
③	033204	1	Clamp, exhaust support	
④	042948	1	Bracket, exhaust support	
⑤	042949	1	Flex piece, exhaust support	
⑥	042947	2	Clamp plate, exhaust support	
⑦	011011	2	Set screw M8 x 25	
⑧	011092	6	Plain washer M6	
⑨	011073	4	Nyloc nut M6	
⑩	041694	3	V-clamp, exhaust	
⑪	041693	1	Flexible union, exhaust	
⑫	041697	2	Compression seal, exhaust	
⑬	041692	1	Diesel Oxidation Catalyst (DOC) unit	
⑭	041906	1	Exhaust stack	
⑮	041907	1	Rain cap, exhaust stack	
⑯	041695	1	Clamp, DOC unit	
⑰	041977	1	Cover, exhaust	
⑱	000256	10	Set screw M8 x 20, stainless steel	
⑲	000265	10	Spring washer M8, stainless steel	

Fuel system arrangement

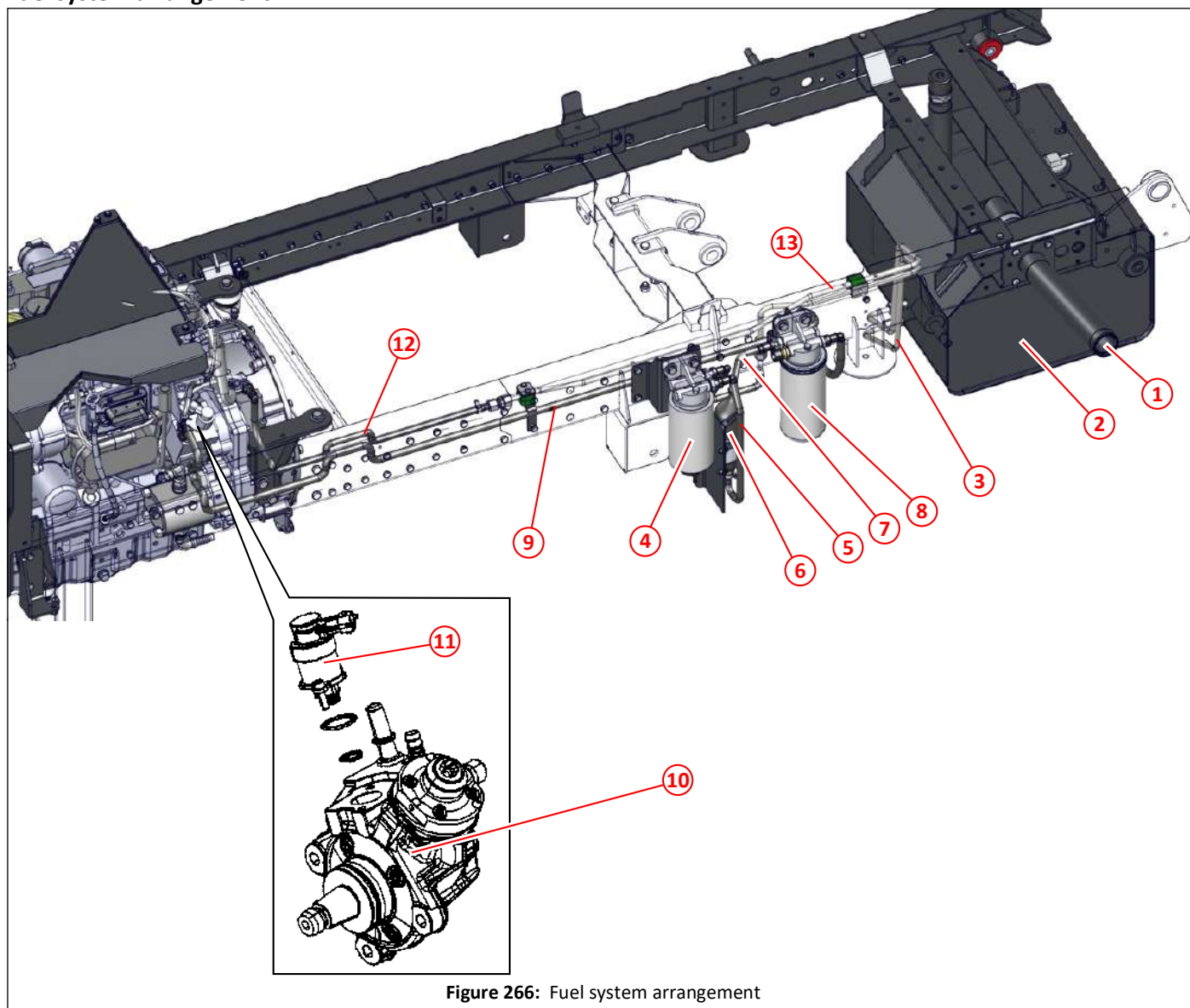


Figure 266: Fuel system arrangement

Item	Part No	Qty	Description	
①		1	Fuel filler tube	319,352
②	042601	1	Fuel tank assembly	316,317,318,319
③	042724	1	Pipe, steel, tank to filter 1	320
④	041699	1	Fuel filter 1, assembly	320
⑤	043494	1	Hose, fuel, filter 1 to pump	320
⑥	041707	1	Pump, fuel, 12v	320
⑦	043495	1	Hose, fuel, pump to filter 2	320
⑧	043035	1	Fuel filter 2	320
⑨	043496	1	Hose, fuel, filter 2 to high pressure fuel pump, engine	320
⑩	TBA	1	High pressure fuel pump, engine	
⑪	046273	1	Control valve, high pressure fuel pump, engine	
⑫	043497	1	Hose, fuel, return	320
⑬	042726	1	Pipe, fuel, return	320

Fuel tank, top fill version

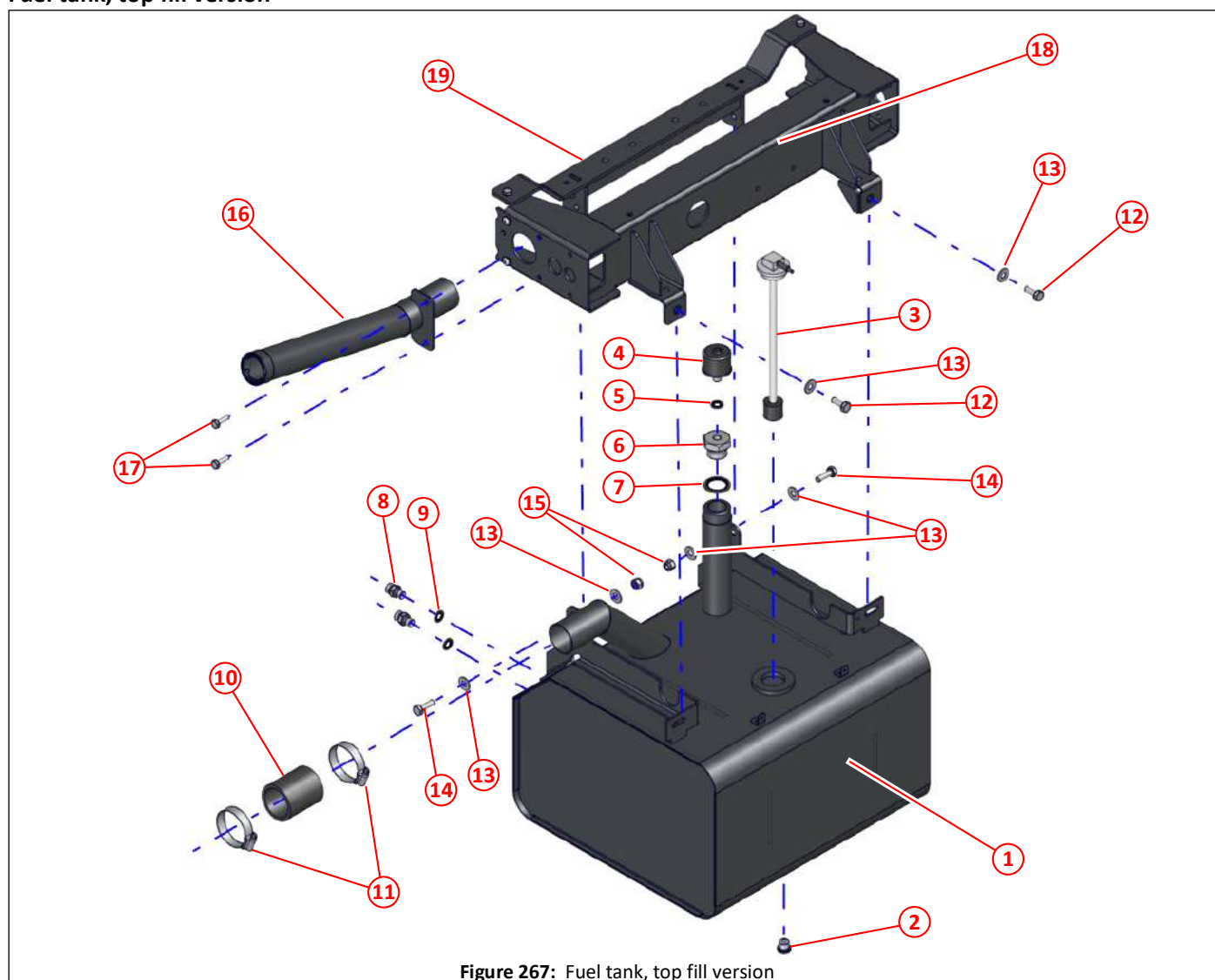


Figure 267: Fuel tank, top fill version

Item	Part No	Qty	Description	
①	040279	1	Fuel tank	315
②	041058	1	Drain plug, magnetic, $\frac{3}{8}$ " BSP, includes washer	
③	043403	1	Fuel level sender	
④	020688	1	Breather, filter	
⑤	011152	1	Dowty seal, $\frac{1}{4}$ " BSP	
⑥	020689	1	Adapter, $\frac{1}{4}$ " BSP x 1" BSP	
⑦	011156	1	Dowty seal, 1"	
⑧	002086	2	Adapter, 12mm x $\frac{1}{4}$ " BSP	320
⑨	011152	2	Dowty seal, $\frac{1}{4}$ " BSP	320
⑩	043899	1	Hose, fuel filler	
⑪	028778	2	Clamp, worm drive, high torque [40-70mm]	
⑫	011031	2	Set screw M10 x 25	
⑬	011094	6	Plain washer M10	
⑭	011032	2	Set screw M10 x 30	
⑮	011075	2	Nyloc nut M10	
⑯	040283	1	Fuel filler tube	
⑰	011011	2	Set screw M8 x 25	
⑱	040972	1	Cross member 'A'	352
⑲	040280	1	Mounting bracket, fuel tank front	

Fuel tank, mountings, side fill version

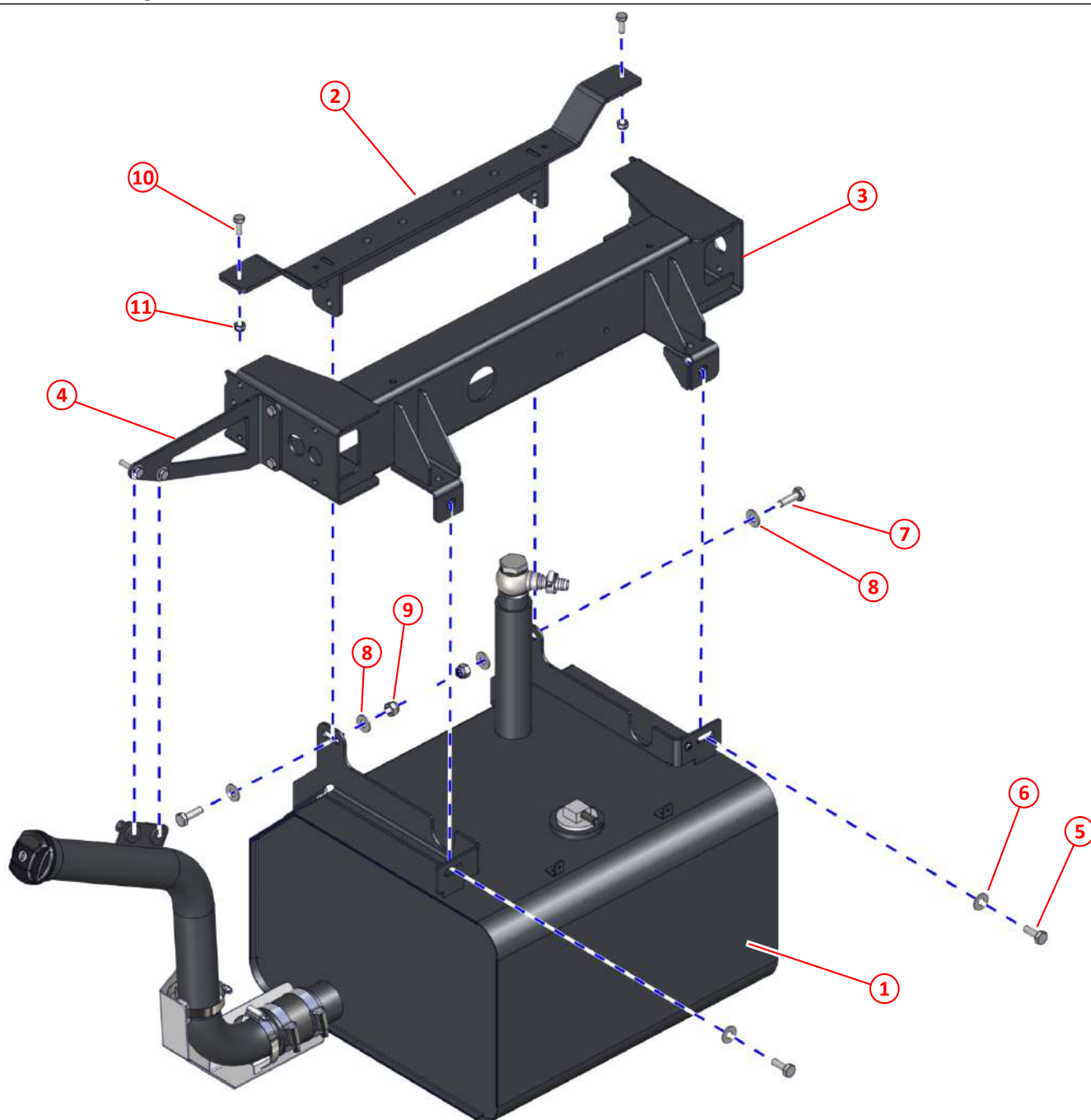


Figure 268: Fuel tank, mountings, side fill version

Item	Part No	Qty	Description	
①	045348	1	Fuel tank, side fill version, assembly	318,319
②	040280	1	Mounting bracket, fuel tank front	
③	040972	1	Cross member 'A'	352
④	045376	1	Support bracket, fuel filler	318,319
⑤	011031	2	Set screw M10 x 25	
⑥	011094	2	Plain washer M10	
⑦	011032	2	Set screw M10 x 30	
⑧	011094	4	Plain washer M10	
⑨	011075	2	Nyloc nut M10	
⑩	011010	2	Set screw M8 x 20	
⑪	011073	2	Nyloc nut M7	

Fuel tank, fittings, side fill version

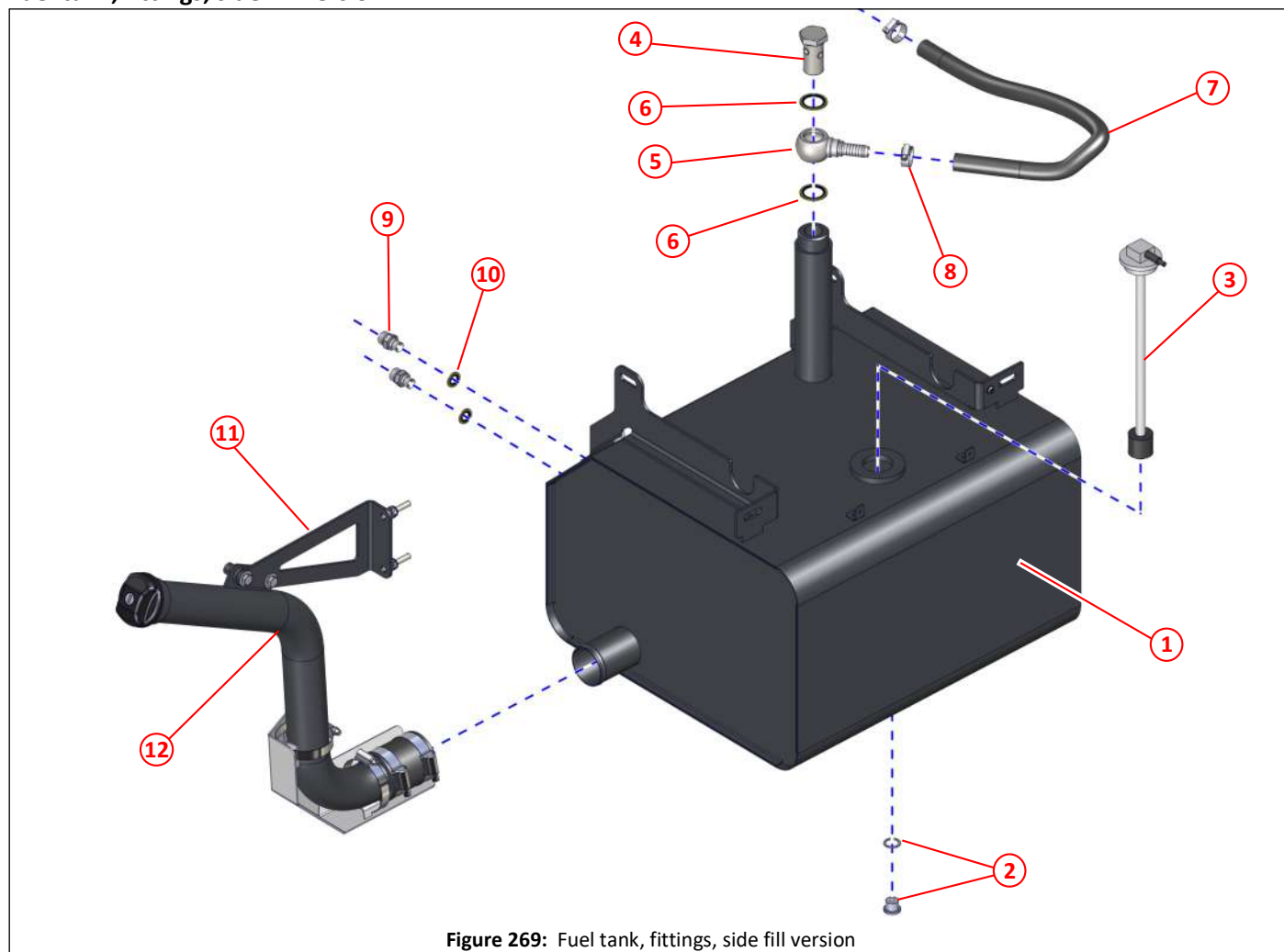


Figure 269: Fuel tank, fittings, side fill version

Item	Part No	Qty	Description	
①	045347	1	Fuel tank, side fill version	317,319
②	041058	1	Drain plug, magnetic, 3/8" BSP, includes washer	
③	043403	1	Fuel level sender	
④	002258	1	Banjo bolt, 3/4" BSP	
⑤	002259	1	Banjo, 3/4" BSP x 3/8" hose tail	
⑥	011155	2	Dowty seal 3/4" BSP	
⑦	011000	As req	Hose, 5/8" fuel, SAE100R6	
⑧	010517	2	Worm drive clip No. 0X (18 - 25)	
⑨	002086	2	Adapter, M/M, 12 x 1/4" BSP	
⑩	011152	2	Dowty seal 1/4" BSP	
⑪	045376	1	Support bracket, fuel filler	317,319
⑫	045375	1	Fuel filler tube, side fill	319

Fuel tank, filler, side fill version

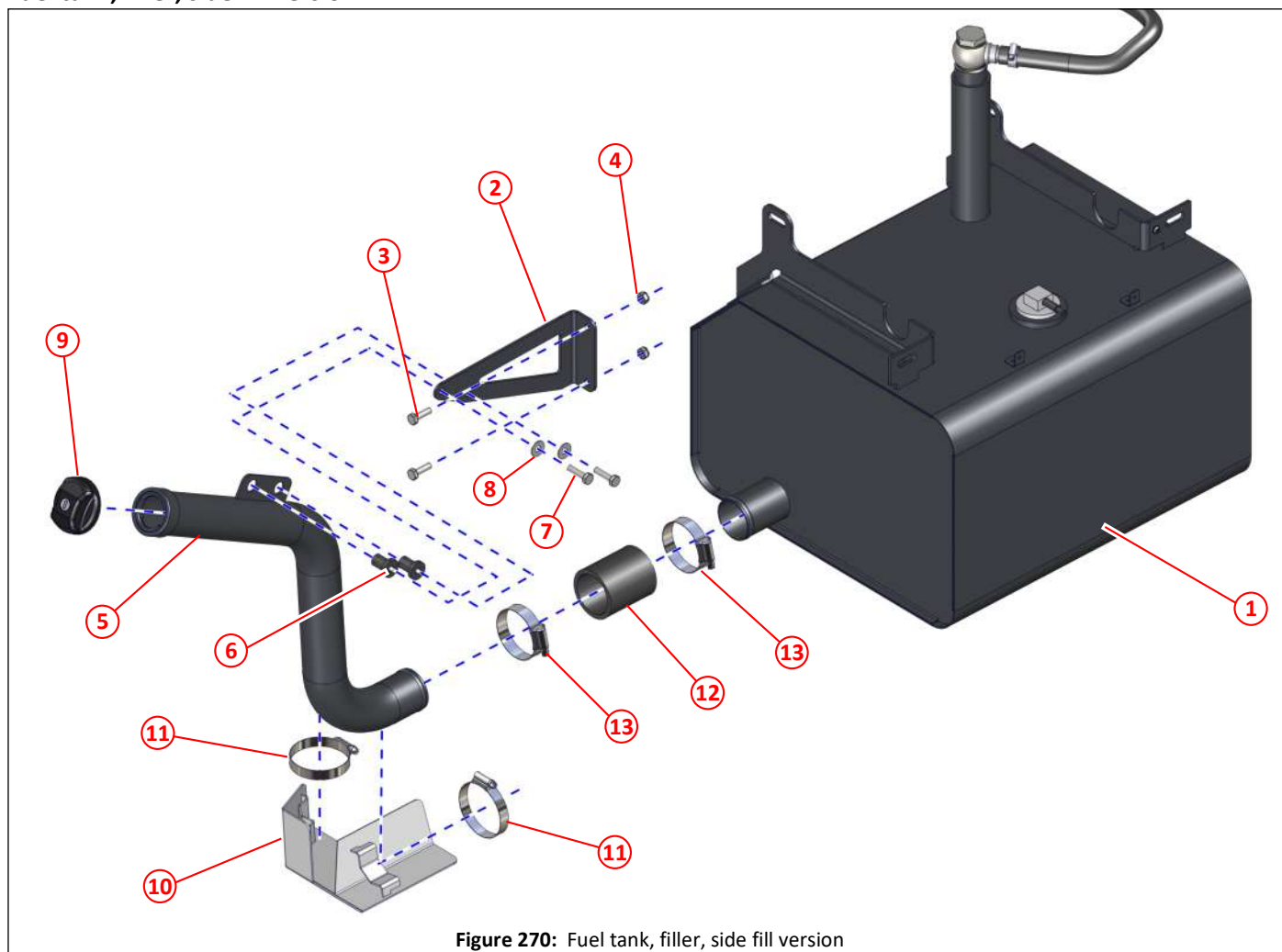


Figure 270: Fuel tank, filler, side fill version

Item	Part No	Qty	Description	
①	045348	1	Fuel tank, side fill version, assembly	317,318
②	045376	1	Support bracket, fuel filler	317,318
③	011011	2	Set screw M8 x 25	
④	011073	2	Nyloc nut M8	
⑤	045375	1	Fuel filler tube, side fill	318
⑥	039932	2	Flex-Loc anti-vibration fastener, M8	
⑦	011012	2	Set screw M8 x 30	
⑧	011092	2	Plain washer M8	
⑨	025892	1	Locking fuel cap, with keys	
⑩	045377	1	Stone guard, fuel filler tube	
⑪	010595	2	Clamp, worm drive, No 3 [55- 70mm]	
⑫	043899	1	Hose, fuel filler tube	
⑬	028778	2	Clamp, worm drive, high torque [40-70mm]	

Fuel filters, pump, pipes and hoses

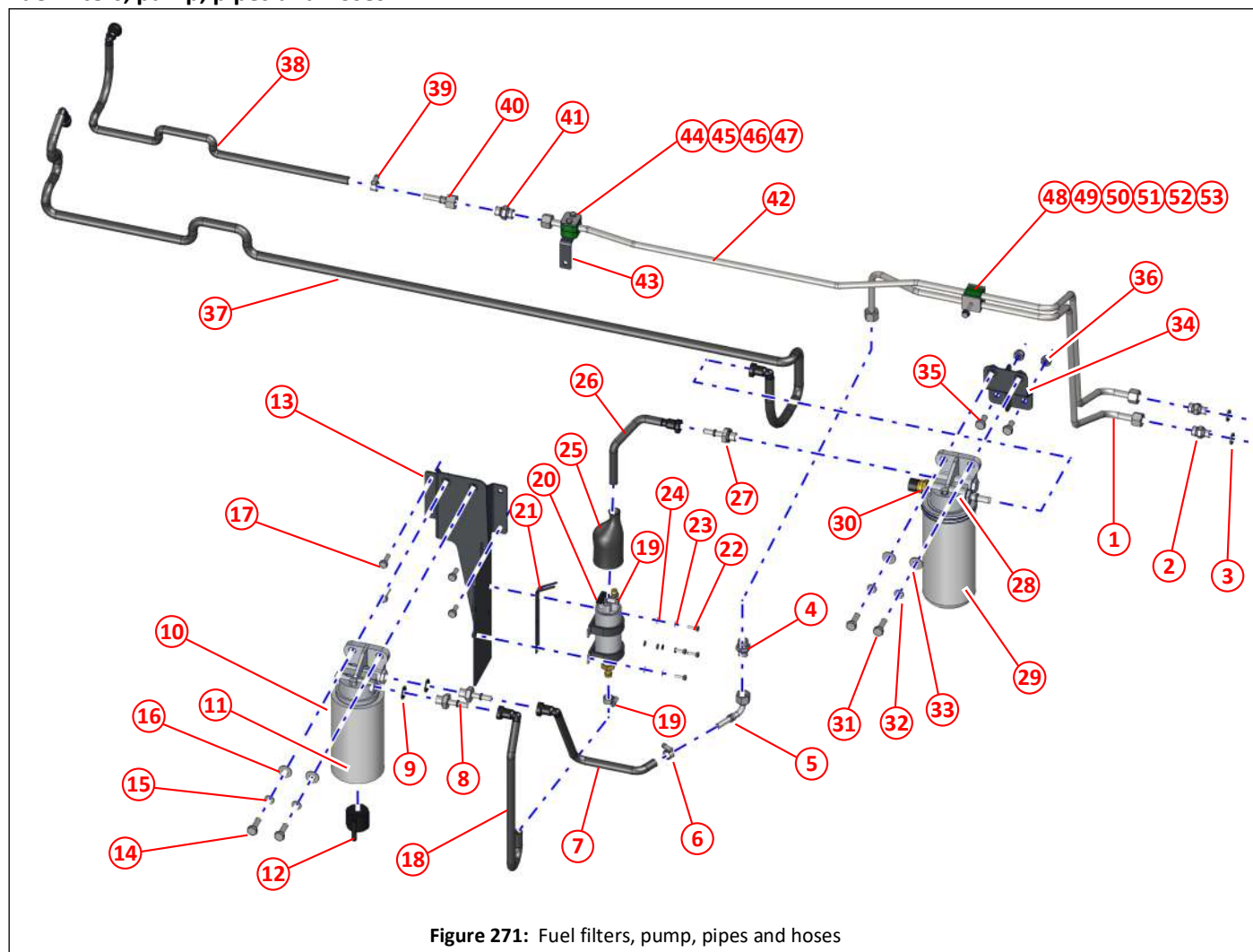


Figure 271: Fuel filters, pump, pipes and hoses

Item	Part No	Qty	Description	
①	042724	1	Pipe, steel, tank to filter 1	315
②	002086	2	Adapter, 12mm x $\frac{1}{4}$ " BSP	316
③	011152	2	Dowty seal, $\frac{1}{4}$ " BSP	316
④	020903	1	Adapter, 12mm x $\frac{3}{8}$ " BSP	
⑤	001140	1	Adapter, slip back nut, 90°, $\frac{3}{8}$ " BSP x $\frac{3}{8}$ " hose tail	
⑥	010516	1	Clamp, worm drive, No. M00 [11-16mm]	
⑦	043493	1	Hose, fuel, tank to filter 1	
⑧	042903	2	Adapter, M16 x 3/8 (SAE J2044) quick change	
⑨	011217	2	Dowty seal M16	
⑩	041699	1	Fuel filter 1, assembly, includes item ⑪ and ⑫.	
⑪	042234	1	Fuel filter cartridge, fuel filter 1	
⑫	045113	1	Sensor, water in fuel	
⑬	042602	1	Bracket, filter and pump	
⑭	011032	2	Set screw M10 x 30	
⑮	011095	2	Spring washer M10	
⑯	011094	2	Plain washer M10	
⑰	011011	4	Set screw M8 x 25	
⑱	043494	1	Hose, fuel, filter 1 to pump	
⑲	010516	2	Clamp, worm drive, No. M00 [11-16mm]	

Continued...

Item	Part No	Qty	Description	
...Continued				
②①	041704	1	Fuel pump, 12v	
②①	043193	1	Bracket, connector, fuel filter	
②②	000059	4	Bolt M5 x 16	
②③	000411	4	Spring washer M5	
②④	000410	4	Plain washer M5	
②⑤	042604	1	Boot, fuel pump	
②⑥	043495	1	Hose, fuel, pump to filter 2	
②⑦	042903	1	Adapter, M16 x 3/8 (SAE J2044) quick change	
②⑧	043035	1	Fuel filter 2, assembly, includes item ②⑨.	
②⑨	043786		Fuel filter cartridge, fuel filter 2	
③①	043785	1	Pressure sensor, fuel filter 2	
③①	011032	2	Set screw M10 x 30	
③②	011095	2	Spring washer M10	
③③	011094	2	Plain washer M10	
③④	042902	1	Bracket, fuel filter 2	
③⑤	011030	2	Set screw M10 x 30	
③⑥	011075	2	Nyloc nut M10	
③⑦	043496	1	Hose, fuel, filter 2 to engine	
③⑧	043497	1	Hose, fuel, return	
③⑨	010516	1	Clamp, worm drive, No. M00 [11-16mm]	
④①	001139	1	Adapter, slip back nut, 3/8" BSP x 3/8" hose tail	
④①	020903	1	Adapter, 12mm x 3/8" BSP	
④②	042726	1	Pipe, steel, fuel, return	
④③	042608	1	Bracket, support, fuel return	
④④	027981	2	Clamp block, 12mm single	
④⑤	027989	1	Top plate, small, clamp block, 2 hole	
④⑥	000021	2	Set screw M6 x 40	
④⑦	011071	2	Nyloc nut M6	
④⑧	027984	2	Clamp block, double, 12 x 12	
④⑨	028771	1	Plate, clamp block	
⑤①	027993	1	Bottom plate, small, clamp block, 1 hole	
⑤①	000011	1	Set screw M6 x 60	
⑤②	011091	1	Spring washer M6	
⑤③	011090	1	Plain washer M6	

Drive line

<i>Description</i>	<i>Page</i>
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Drive line, transmission pump	325
Drive line, transmission pump, reverse solenoid and relief valve	326
Drive line, reverse solenoid and relief valve unit	327
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Drive line, motor	329
Drive line, rear axle	330
Drive line, rear axle, Knott	332
Drive line, differential assembly, Knott	334
Wheel and tyre	335

Drive line, transmission pump, motor and rear axle

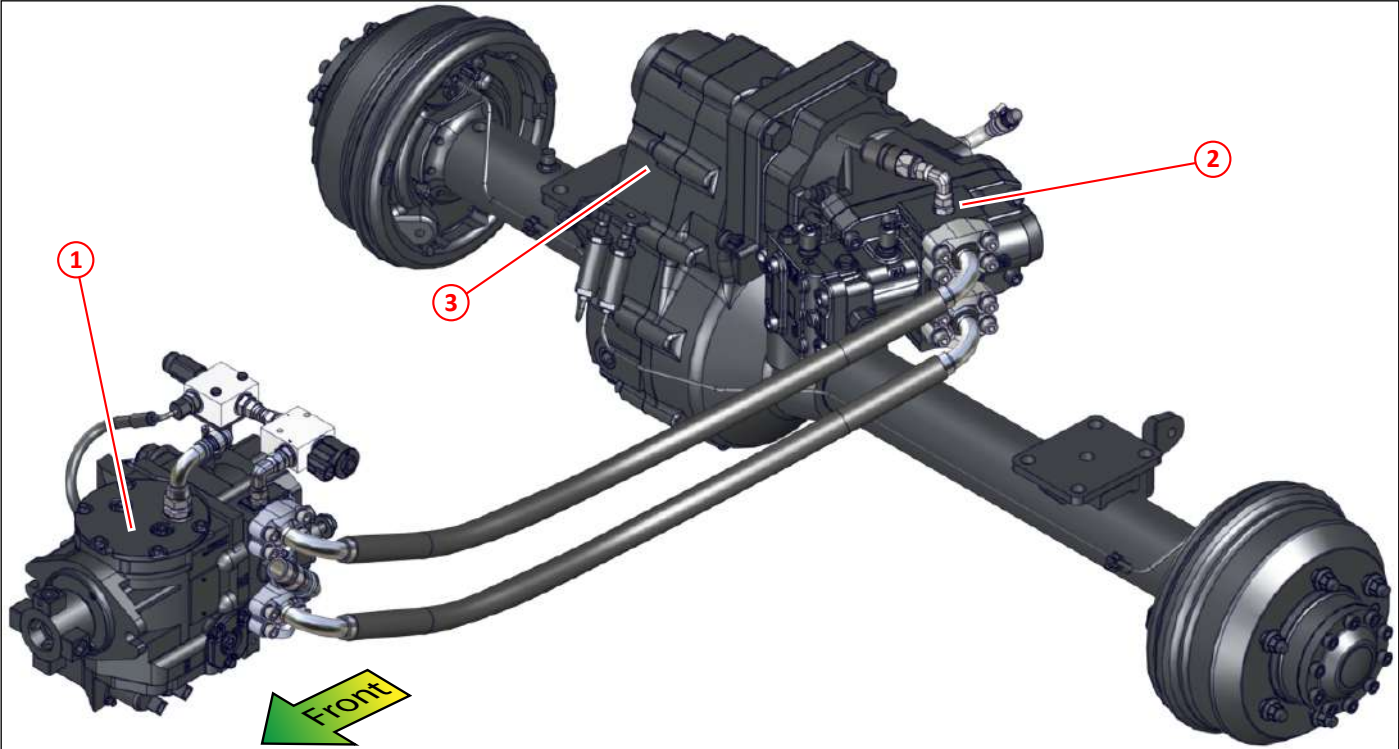


Figure 272: Drive line, transmission pump, motor and rear axle

Item	Part No	Qty	Description	
①	024516	1	Transmission pump	325
②	038661	1	Motor, hydraulic, drive, SAUER 51V110	328, 329
NI	000490	1	25km/h restriction screw (optional)	
③	037281	1	Rear axle complete	328, 367

Drive line, transmission pump

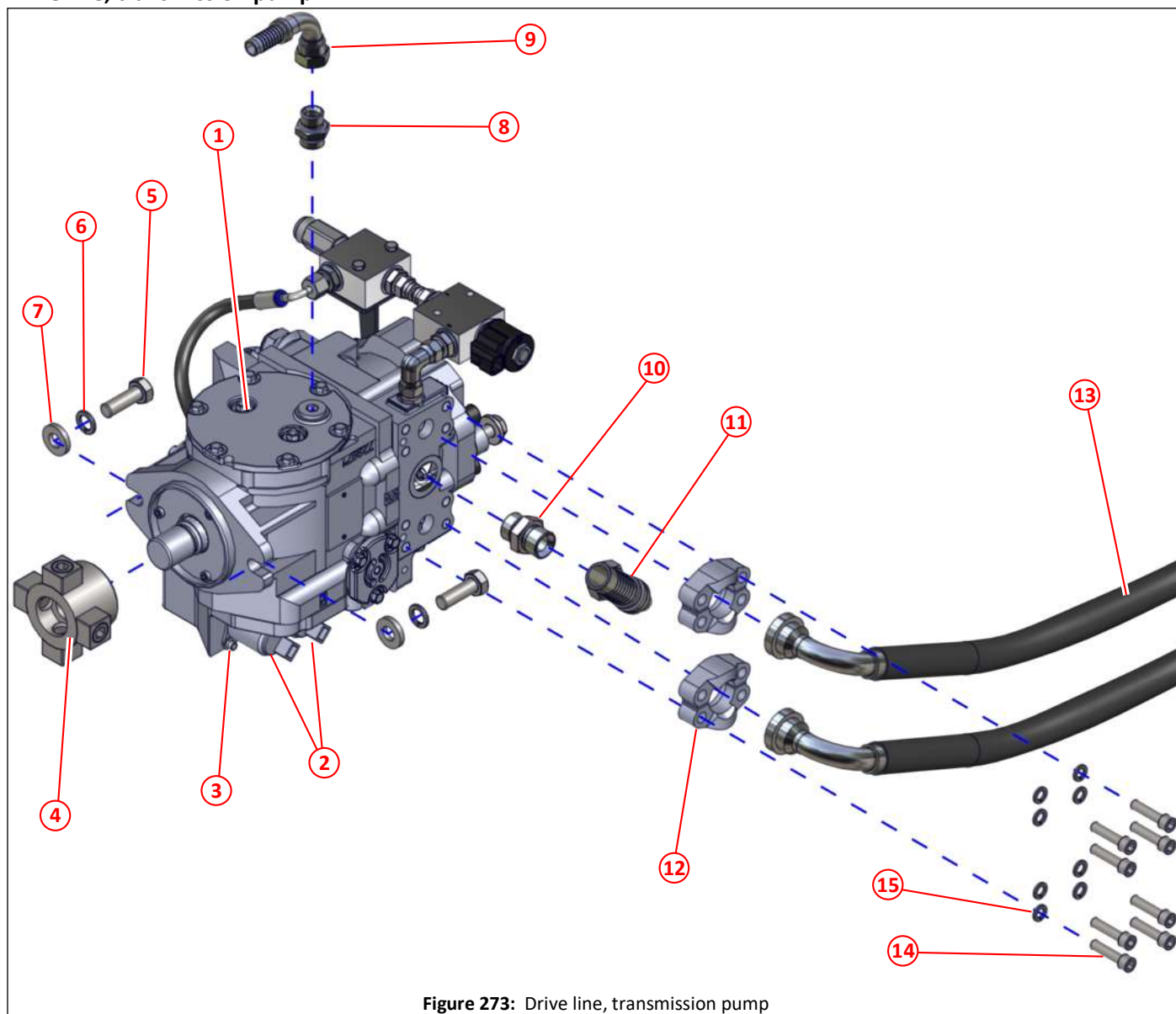


Figure 273: Drive line, transmission pump

Item	Part No	Qty	Description	
①	024516	1	Transmission pump	324, 326
②	026655	2	Valve, forward and reverse drive	
③	026775	4	Protection cap	
④	032884	1	Coupling hub	
⑤	011126	2	Set screw M14 x 40	
⑥	011106	2	Spring washer M14	
⑦	020030	2	Washer ø14.5 x ø30 x 5	
⑧	011226	1	Adapter $\frac{7}{8}$ " SAE x $\frac{1}{2}$ " BSP complete with 'O' ring	
⑨	011234	1	Elbow hose tail $\frac{1}{2}$ " BSP x $\frac{5}{8}$ " HOSE	
⑩	011190	1	Adapter $\frac{1}{16}$ " SAE x $\frac{3}{4}$ " BSP complete with 'O' ring	
⑪	002079	1	Elbow hose tail $\frac{1}{4}$ " BSPF x $\frac{1}{4}$ " hose	
⑫	002000	2	Flange $\frac{3}{4}$ " SAE split kit 6000 PSI	
⑬	042061	2	Transmission hose	
⑭	000045	8	Socket cap screw $\frac{3}{8}$ " UNC x $1\frac{1}{2}$ "	
⑮	011046	8	Spring washer $\frac{3}{8}$ " HP	

Drive line, transmission pump, reverse solenoid and relief valve

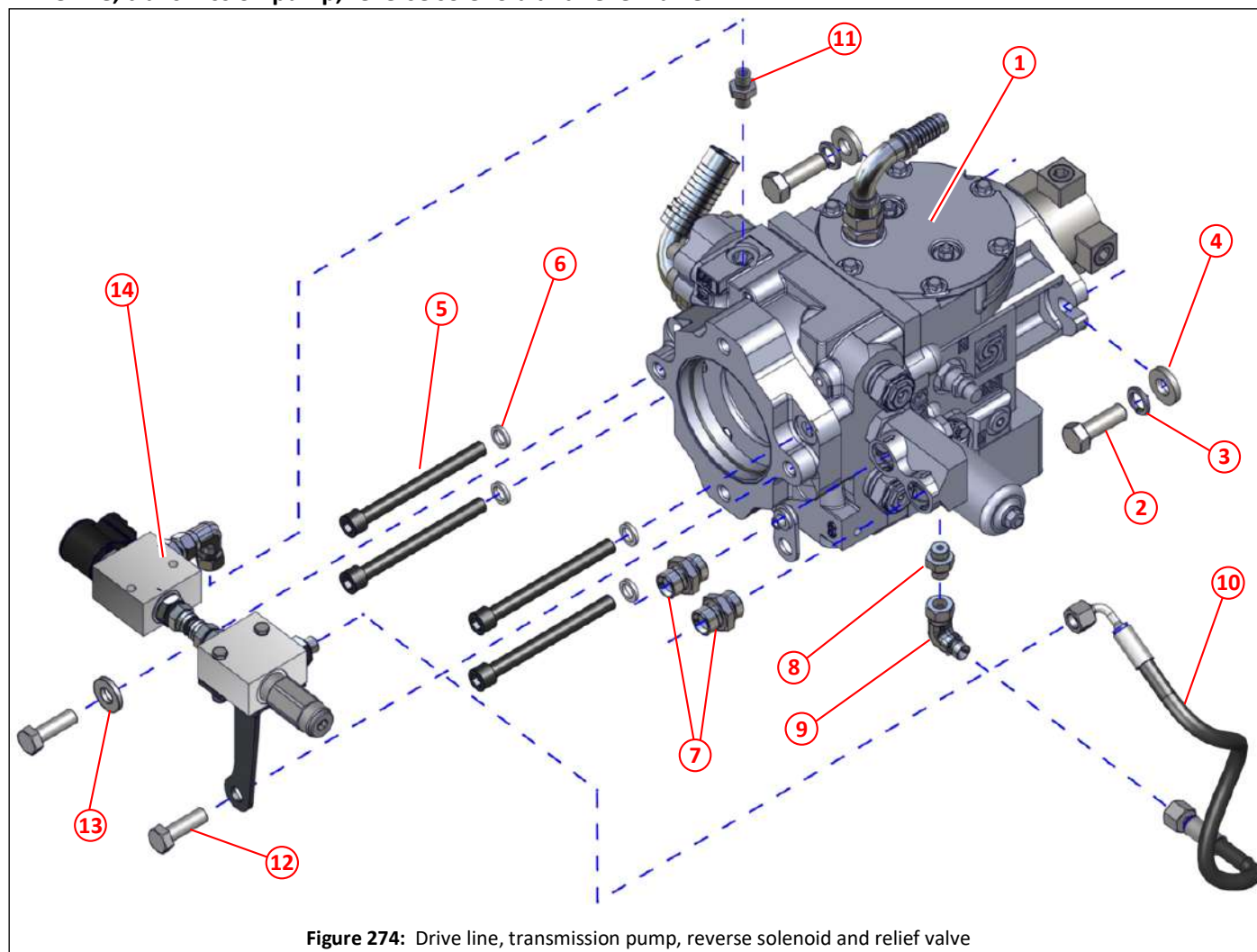


Figure 274: Drive line, transmission pump, reverse solenoid and relief valve

Item	Part No	Qty	Description	
①	024516	1	Transmission pump	324, 325
②	011126	2	Set screw M14 x 40	
③	011106	2	Spring washer M14	
④	020030	2	Washer $\varnothing 14.5 \times \varnothing 30 \times 5$	
⑤	000335	4	Socket cap screw M12 x 120	
⑥	038166	4	Drive motor mounting spacer $\varnothing 12.2 \times \varnothing 18.1 \times 3$	
⑦	011226	2	Adapter $\frac{7}{8}$ " SAE x $\frac{1}{2}$ " BSP complete with 'O' ring	
⑧	011264	1	Adapter $\frac{9}{16}$ " SAE x $\frac{1}{4}$ " BSP complete with 'O' ring	
⑨	011171	1	Swivel elbow M/F $\frac{1}{4}$ " BSP	
⑩	001105	1	Hose $\frac{1}{4}$ " BSP x 400, straight and 90° ends	
⑪	025040	1	Restrictor 12, $\frac{9}{16}$ " x $\frac{1}{4}$ " BSP, $\frac{1}{32}$ " complete with 'O' ring	
⑫	000033	2	Bolt $\frac{1}{2}$ " UNC x $1 \frac{1}{2}$ "	
⑬	039036	1	Spacer $\varnothing 13.1 \times \varnothing 28 \times 4$	
⑭			Reverse solenoid and relief valve unit	327

Drive line, reverse solenoid and relief valve unit

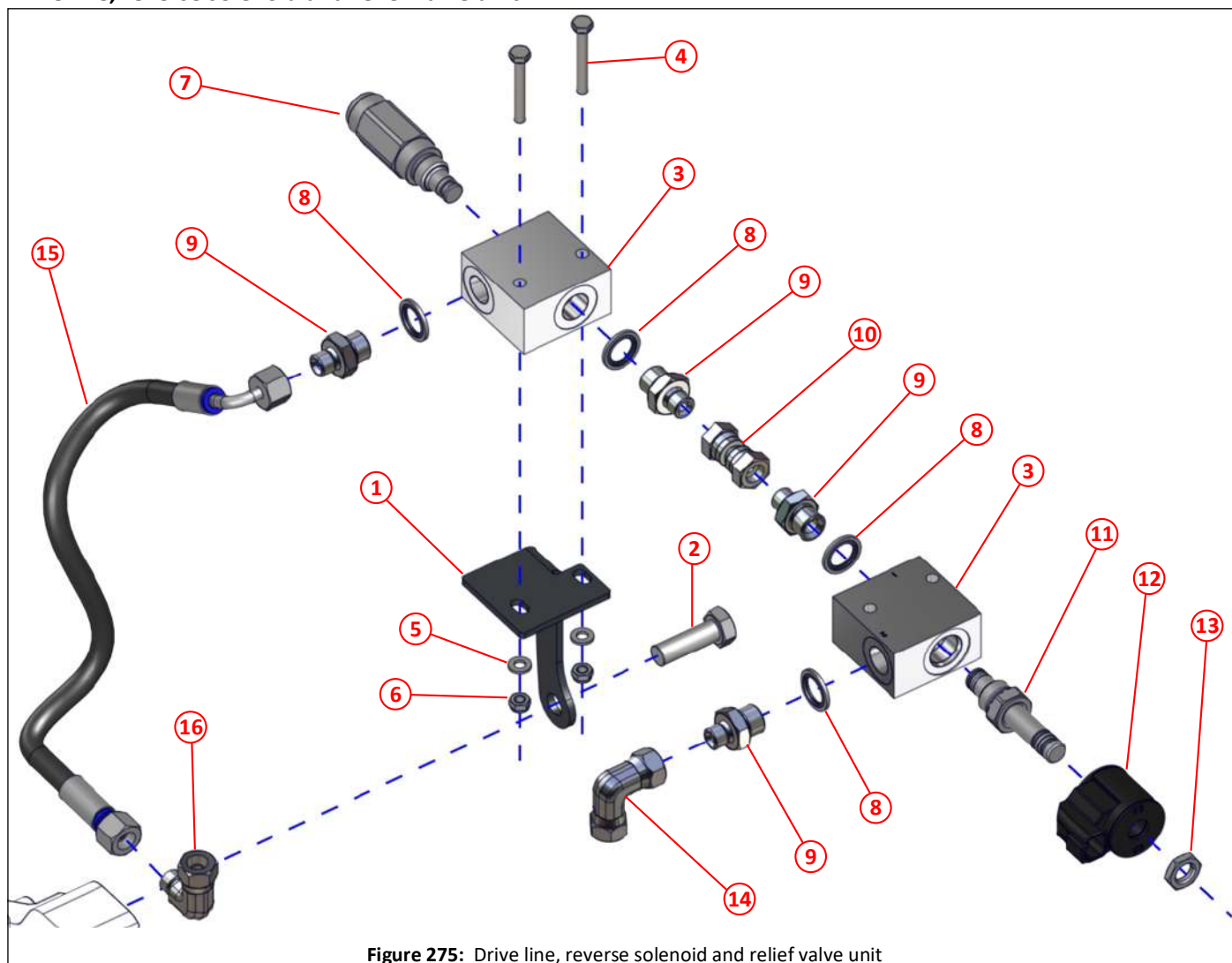


Figure 275: Drive line, reverse solenoid and relief valve unit

Item	Part No	Qty	Description	
①	043229	1	Relief valve bracket	
②	000033	1	Bolt $\frac{1}{2}$ " UNC x $1\frac{1}{2}$ "	
③	041640 *	2	Manifold	
④	000120	2	Set screw M6 x 45	
⑤	011090	2	Plain washer M6	
⑥	011071	2	M6 Nyloc nut	
⑦	041641 *	1	Relief valve RV58-20H-P-46-M80	
⑧	011153	4	Dowty seal $\frac{3}{8}$ " BSP	
⑨	011199	4	Adapter $\frac{3}{8}$ " x $\frac{1}{4}$ " BSP	
⑩	011219	1	Adapter $\frac{1}{4}$ " BSP Nut/Nut	
⑪	041643	1	Solenoid valve, cartridge SF08-21	
⑫	041225	1	Coil 12v / 17.2 watts	
⑬	041237	1	Nut	
⑭	011169	1	Swivel elbow F/F $\frac{1}{4}$ " BSP	
⑮	001105	1	Hose $\frac{1}{4}$ " BSP x 400, straight and 90° ends	
⑯	011171	1	Swivel elbow M/F $\frac{1}{4}$ " BSP	

*	041559	1	Relief valve and manifold, assembly, item ③ and ⑦
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Drive line, motor and rear axle

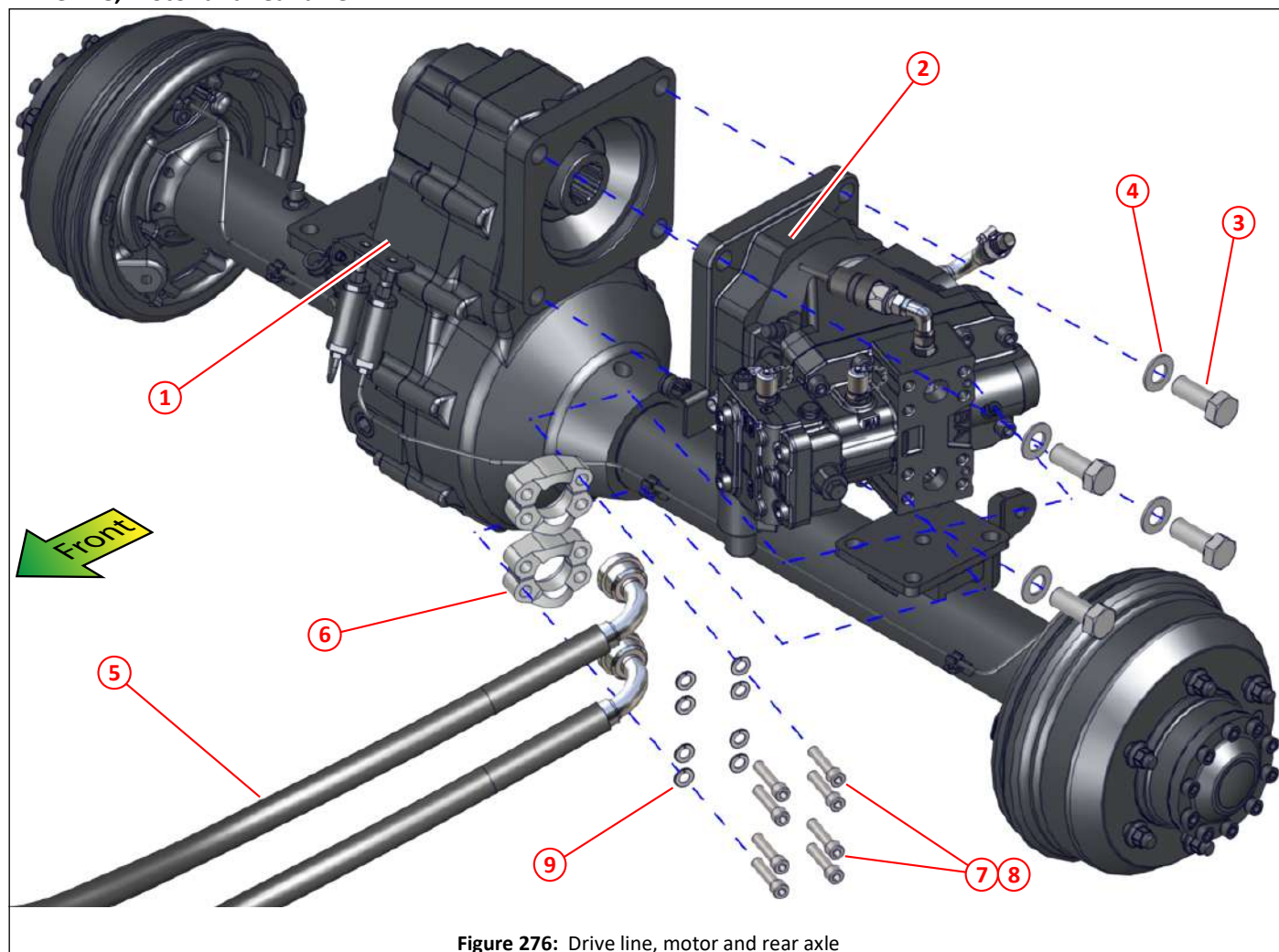


Figure 276: Drive line, motor and rear axle

Item	Part No	Qty	Description	
①	037281	1	Rear axle complete	330, 367
②	038661	1	Motor, hydraulic, drive, SAUER 51V110	329
③	011061	4	Bolt M20 x 50	
④	011102	4	Plain washer M20	
⑤	042061	2	Transmission hose	325
⑥	002001	2	Flange $\frac{3}{4}$ " SAE split kit 6000 PSI	
⑦	000036	6	Socket cap screw $\frac{7}{16}$ " UNC x $1\frac{3}{4}$ "	
⑧	000100	2	Bolt $\frac{7}{16}$ " UNC x $1\frac{3}{4}$ "	
⑨	000064	8	Spring washer $\frac{7}{16}$ " HP	

Drive line, motor

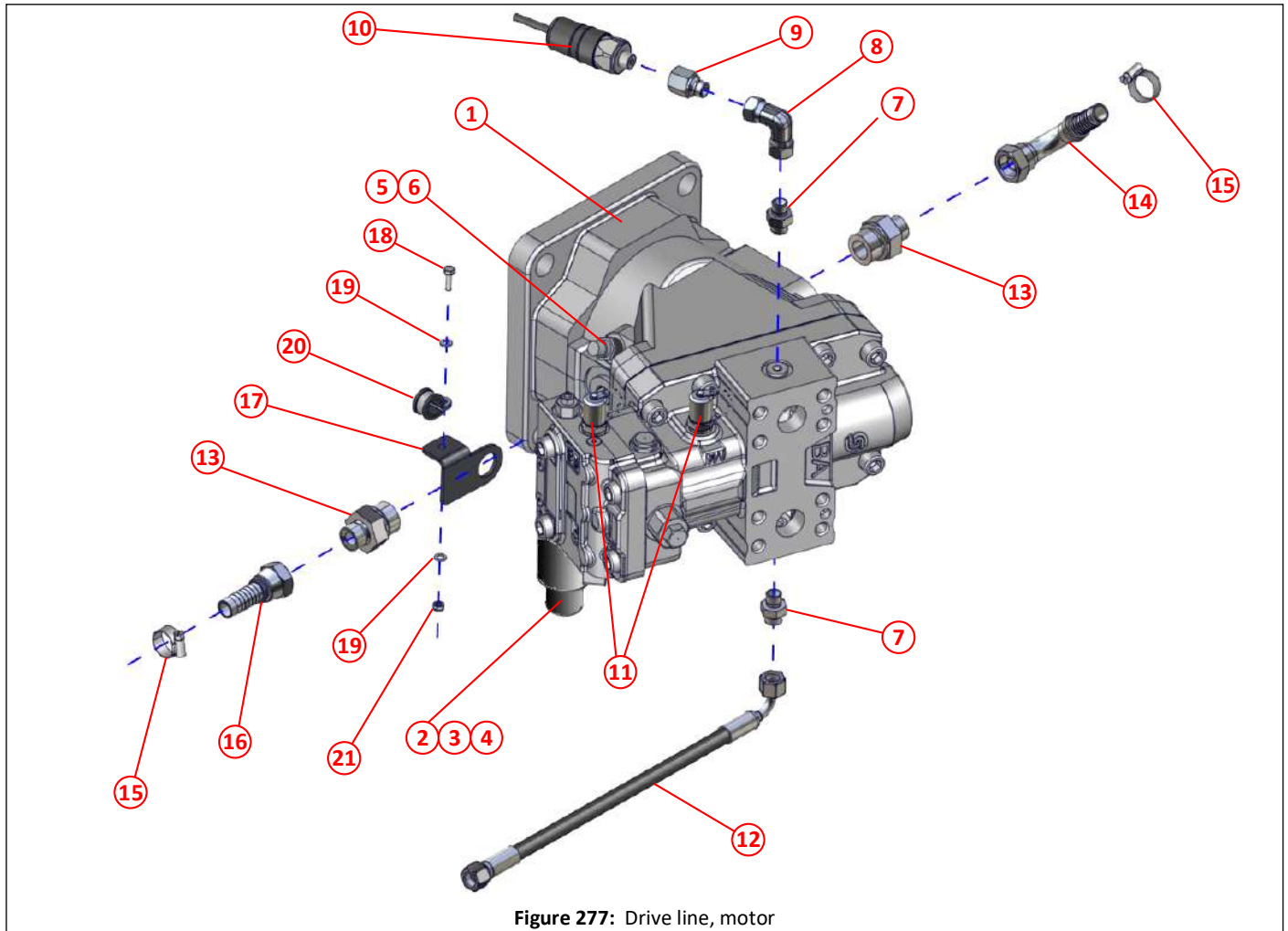


Figure 277: Drive line, motor

Item	Part No	Qty	Description	
①	038661	1	Motor, hydraulic, drive, SAUER 51V110	328
②	027238	1	Solenoid and coil, 12v	
③	026032	1	Coil, 12v	
④	026033	1	Plug, coil	
⑤	026179	1	Pulse pick up (PPU)	
⑥	025410	1	Connector lead, (PPU)	
⑦	011264	2	Adapter $\frac{9}{16}$ " SAE x $\frac{1}{4}$ " BSP, complete with 'O'-Ring	
⑧	011169	1	Elbow, swivel, F/F, $\frac{1}{4}$ " BSP	
⑨	002014	1	Adapter, fixed, M/F, $\frac{1}{4}$ " BSP	
⑩	036872	1	Hydro pressure switch amp, 220 BAR rising	
⑪	002073	2	test point, $\frac{9}{16}$ " UNF	
⑫	001100	1	Hose $\frac{1}{4}$ " BSP x 460 (Straight/90°)	
⑬	011265	2	Adapter $\frac{11}{16}$ " SAE x $\frac{1}{2}$ " BSP, complete with 'O'-Ring	
⑭	011234	1	Elbow $\frac{1}{2}$ " BSP x $\frac{5}{8}$ " hose tail	
⑮	010517	2	Worm drive clip No. 0X (18 - 25)	
⑯	011235	1	Adapter, $\frac{1}{2}$ " BSP x $\frac{5}{8}$ " hose tail	
⑰	043014	1	Handbrake cable support	
⑱	000052	1	Bolt M5 x 16	
⑲	000410	2	Plain washer M5	
⑳	013293	1	Clip, pipe, 16mm	
㉑	000155	1	M5 Nyloc nut	

Drive line, rear axle

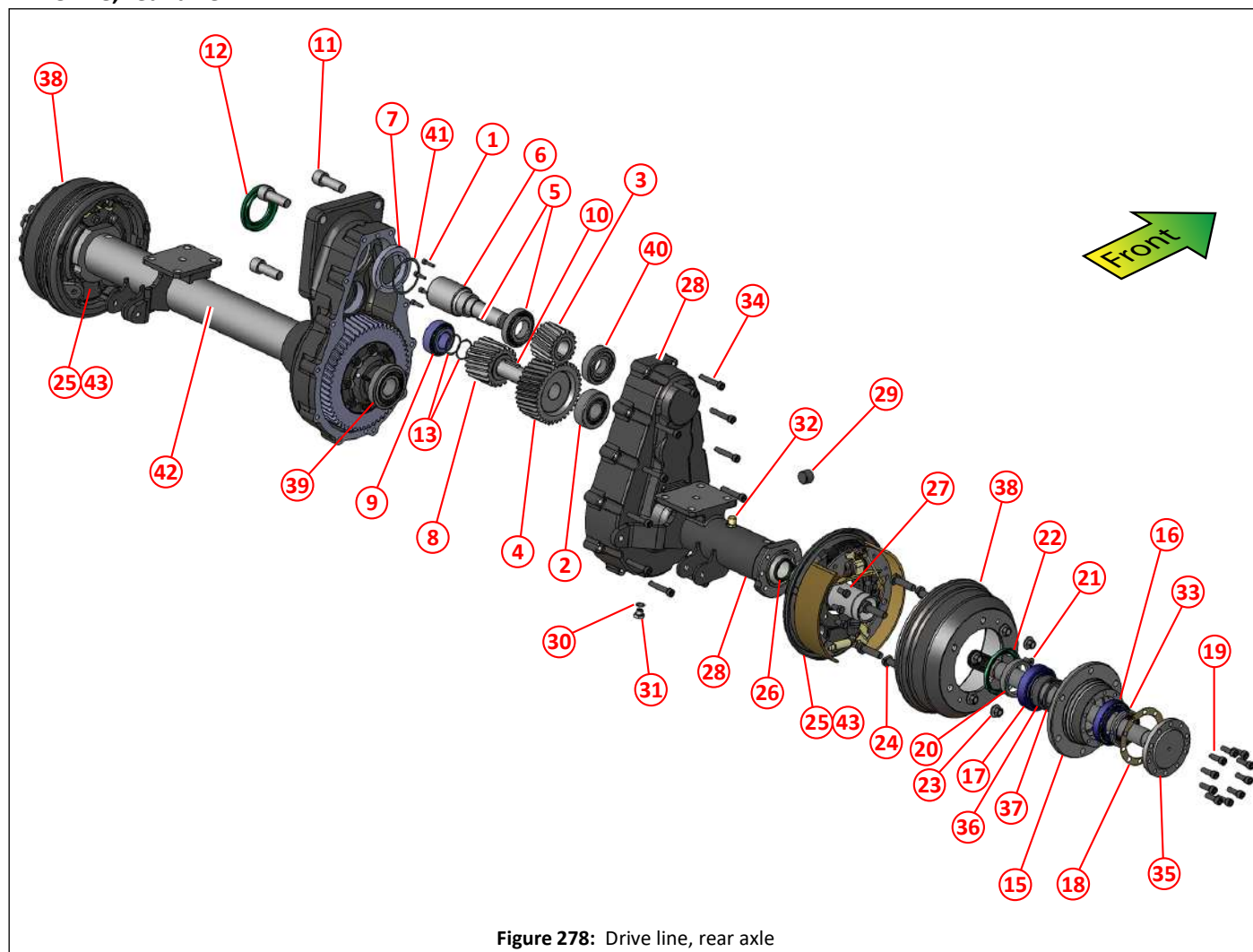
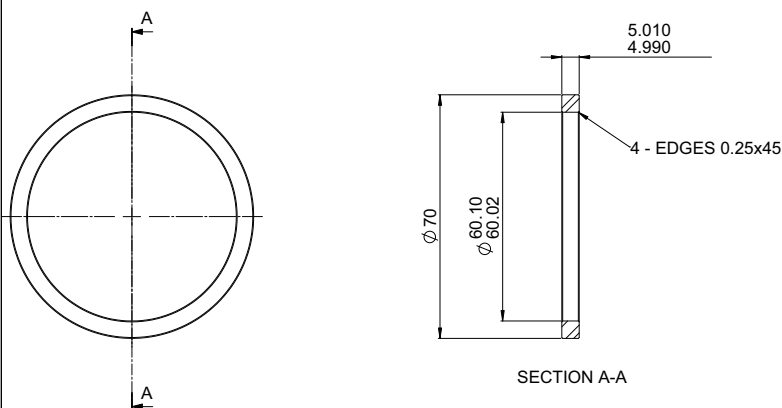


Figure 278: Drive line, rear axle

Item	Part No	Qty	Description	
①	044972	4	Long socket head cap screw M6 x 25	
②	044973	1	Bearing 35 x 80 x 22.75	
③	044974	1	Helical pinion	
④	044975	1	Idler gear, large	
⑤	044976	1	Bearing 30208 40 x 80 x 19.75	
⑥	044977	1	Drive flange, inner	
⑦	044978	1	Bearing cap	
⑧	044979	1	Idler gear, small	
⑨	044980	1	Taper roller bearing 35 x 72 x 28, 4T-33207	
⑩	044981	2	Key 10 x 8 x 41, rounded ends	
⑪	044982	4	Socket cap head screw M20 x 55	
⑫	044983	6	Oil seal 65 x 100 x 10, Viton twin lip	
⑬	044984	As req	Bearing shim 0.002"	
NI	044985	1	Right hand end assembly	
⑮	044986	2	Wheel hub	
⑯	044906	2	Bearing 60 x 95 x 23	
⑰	044905	2	Bearing 60 x 95 x 27	
⑱	044987	2	Hub gasket	
⑲	044988	20	Socket head cap screw M10 x 30	
⑳	044989	2	Abutment ring	

Item	Part No	Qty	Description	
21	044990	2	Countersunk cap screw M8 x 20	
22	044991	2	Oil seal 80 x 100 x 8	
23	043671	12	Wheel nut M14 x 1.5	
24	044993	12	Wheel stud M14 x 1.5 UH	
25	044994	1	Brake assembly 10" x 2.75", ? hand - 045158/045159	
26	044995	2	Oil seal 38 x 50 x 7	
27	044996	12	Set screw $\frac{7}{16}$ " x $\frac{3}{4}$ " UNF	
28	044997	1	Axle case assembly, right hand	
29	044998	1	Plug, oil level	
30	044999	1	Copper washer $\phi 13$ x $\phi 19$ x 1.5	
31	045000	1	Drain plug assembly $\frac{1}{4}$ " BSP	
32	045001	1	Breather assembly	
33	045002	2	Adjusting nut M60 x 2	
34	045003	12	Socket head cap screw M10 x 55	
35	045004	1	Half shaft, right hand	
36	044778	1	Spacer 18mm	
37	*	As req	Hub spacer	
38	044908	2	Brake drum	
39	045007	1	Differential assembly	
40	045008	1	Bearing 35 x 80 x 22.75	
41	045009	As req	Shim 0.2mm	
42	045010	1	Half shaft, left hand	
43		1	Brake assembly 10" x 2.75", ? hand - 045158/045159	
NI		1	Left hand end assembly	
NI	044759	1	Spacer 20mm	
NI		1	Axle case assembly, left hand (F102620A)	

*.There are 10 different size spacers available Part No. 044760 to 044769, please see table below.

Hub spacer	Part No.	Nominal Dimension	Tolerance
	044760	5.000mm	±0.01mm
	044761	5.100mm	±0.01mm
	044762	5.200mm	±0.01mm
	044763	5.300mm	±0.01mm
	044764	5.400mm	±0.01mm
	044765	5.500mm	±0.01mm
	044766	5.600mm	±0.01mm
	044767	5.700mm	±0.01mm
	044768	5.800mm	±0.01mm
	044769	5.900mm	±0.01mm

Drive line, rear axle, Knott

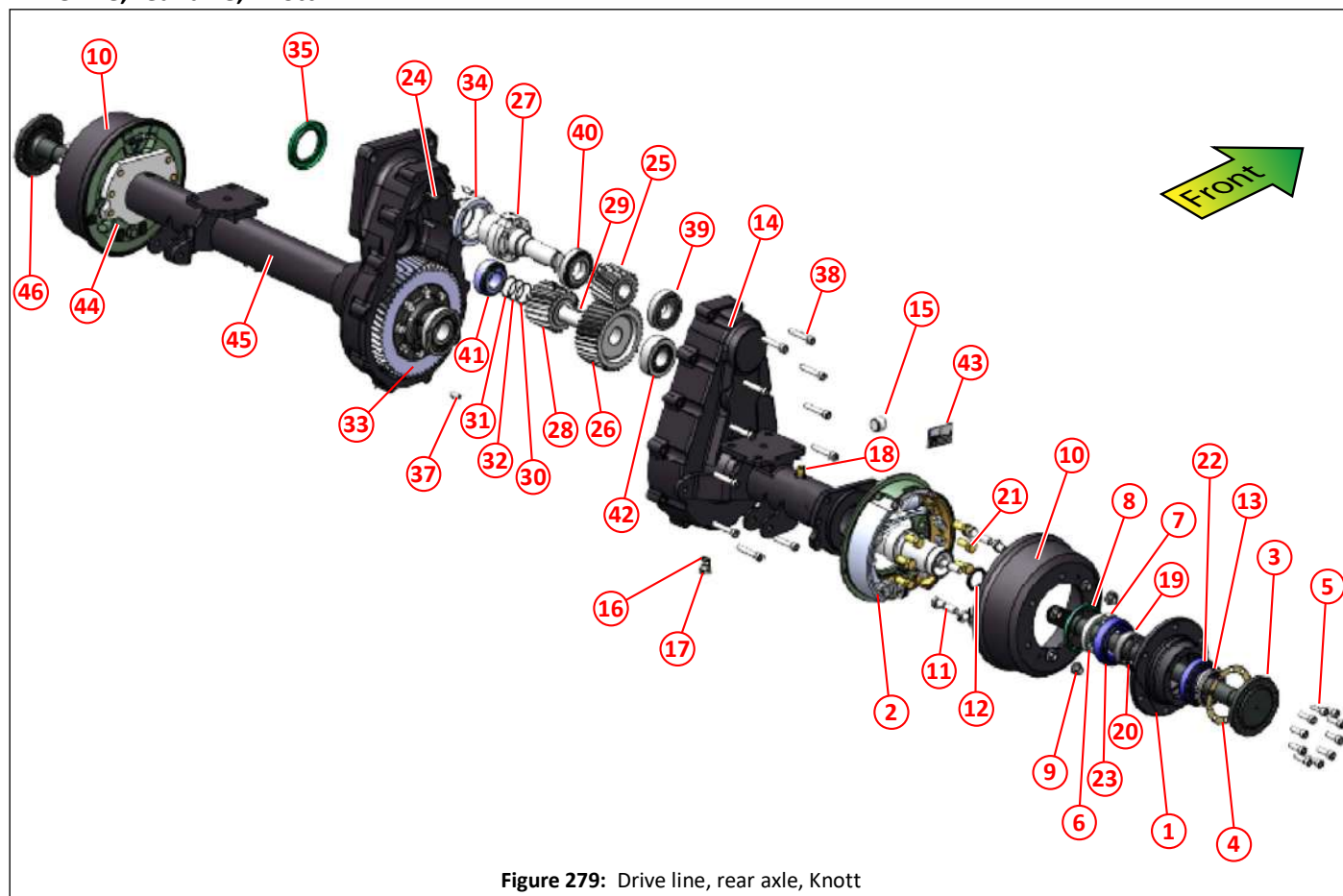
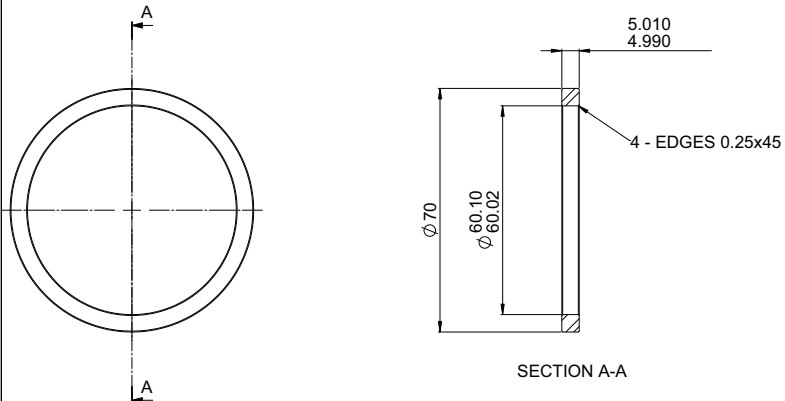


Figure 279: Drive line, rear axle, Knott

Item	Part No	Qty	Description
①	SCA044986	2	Wheel hub M/C - 6 x M14 x 180 PCD
②	SCA048402	1	Brake assembly 250 x 55 right hand - ø130 Bore - ø15.87 Cylinder
③	SCA045004	1	Half-shaft M/C - 10 x 110PCD x 19T x 568 long
④	SCA944987	2	Gasket ø95 x ø126 - 10 x M10 x 110PCD
⑤	SCA044988	20	Socket cap screw M10 x 30
⑥	SCA044989	2	Abutment ring ø65 x ø80 x 15
⑦	SCA044990	2	Countersunk cap screw M8 x 20
⑧	SCA044991	2	Oil seal 80 x 100 x 8
⑨	SCA044992	12	Wheel nut M14 x 1.5
⑩	SCA048403	2	Brake drum M/C - ø250 x 55 - 5 x M18 x 205PCD
⑪	SCA044993	12	Wheel stud M14 x 1.5 UH
⑫	SCA044995	2	Oil seal 38 x 50 x 7
⑬	SCA045002	2	Adjusting nut M16 x 2
⑭	SCA048404	1	Axle case assembly right hand
⑮	SCA044998	1	Plug $\frac{3}{4}$ " BSPT
⑯	SCA044999	1	Copper washer ø13.5 x ø19 x 1.5
⑰	SCA045000	1	Drain plug assembly $\frac{1}{4}$ " BSP
⑱	SCA045001	1	Breather assembly $\frac{1}{8}$ " BSP
⑲	SCA044778	1	Spacer
⑳	*	1	Hub spacer
㉑	SCA048405	12	Setscrew M 14 x 30
㉒	SCA044906	2	Bearing 60 x 95 x 23 - 32012XU
㉓	SCA044905	2	bearing 60 x 95 x 27 - 4T-33012

Item	Part No	Qty	Description
24	SCA048443	4	Long socket head cap screw M6 x 25
25	SCA044974	1	Helical pinion
26	SCA044975	1	Idler gear, large
27	SCA044977	1	Input drive shaft assembly
28	SCA044979	1	Idler gear, small
29	SCA044981	2	Key 10 x 8 x 41 long, rounded ends
30	SCA044984	1	Shim $\phi 45 \times \phi 39 \times 0.002$ "
31	SCA048432	1	Shim $\phi 45 \times \phi 39 \times 0.005$ "
32	SCA048433	1	Shim $\phi 45 \times \phi 39 \times 0.006$ "
33	SCA045007	1	Differential assembly
34	SCA044978	1	Bearing cap
35	SCA044983	1	Oil seal 65 x 100 x 10, Viton twin lip
36	SCA045009	1	Shim 0.2mm
37	SCA048434	2	Dowel $\phi 10 \times 25$
38	SCA045003	12	Socket cap screw M10 x 55
39	SCA45008	1	Taper roller bearing $\phi 35 \times \phi 80 \times 22.75$
40	SCA044976	1	Bearing 40 x 80 x 19.75 - 4T-30208
41	SCA044980	1	Taper roller bearing $\phi 35 \times \phi 72 \times 28$ - 4T-33207
42	SCA044973	1	Bearing 35 x 80 x 22.75
43	SCA048435	1	Label
44	SCA048406	1	Brake assembly 250 x 55 left hand - $\phi 130$ Bore - $\phi 15.87$ Cylinder
45	SCA048407	1	Axle case assembly left hand
46	SCA045010	1	Half-shaft M/C - 10 x 110PCD x 19T x 900 long

*.There are 10 different size spacers available Part No. SCA044760 to SCA044769, please see table below.

Hub spacer	Part No.	Nominal Dimension	Tolerance
	SCA044760	5.000mm	$\pm 0.01\text{mm}$
	SCA044761	5.100mm	$\pm 0.01\text{mm}$
	SCA044762	5.200mm	$\pm 0.01\text{mm}$
	SCA044763	5.300mm	$\pm 0.01\text{mm}$
	SCA044764	5.400mm	$\pm 0.01\text{mm}$
	SCA044765	5.500mm	$\pm 0.01\text{mm}$
	SCA044766	5.600mm	$\pm 0.01\text{mm}$
	SCA044767	5.700mm	$\pm 0.01\text{mm}$
	SCA044768	5.800mm	$\pm 0.01\text{mm}$
	SCA044769	5.900mm	$\pm 0.01\text{mm}$

Drive line, differential assembly, Knott

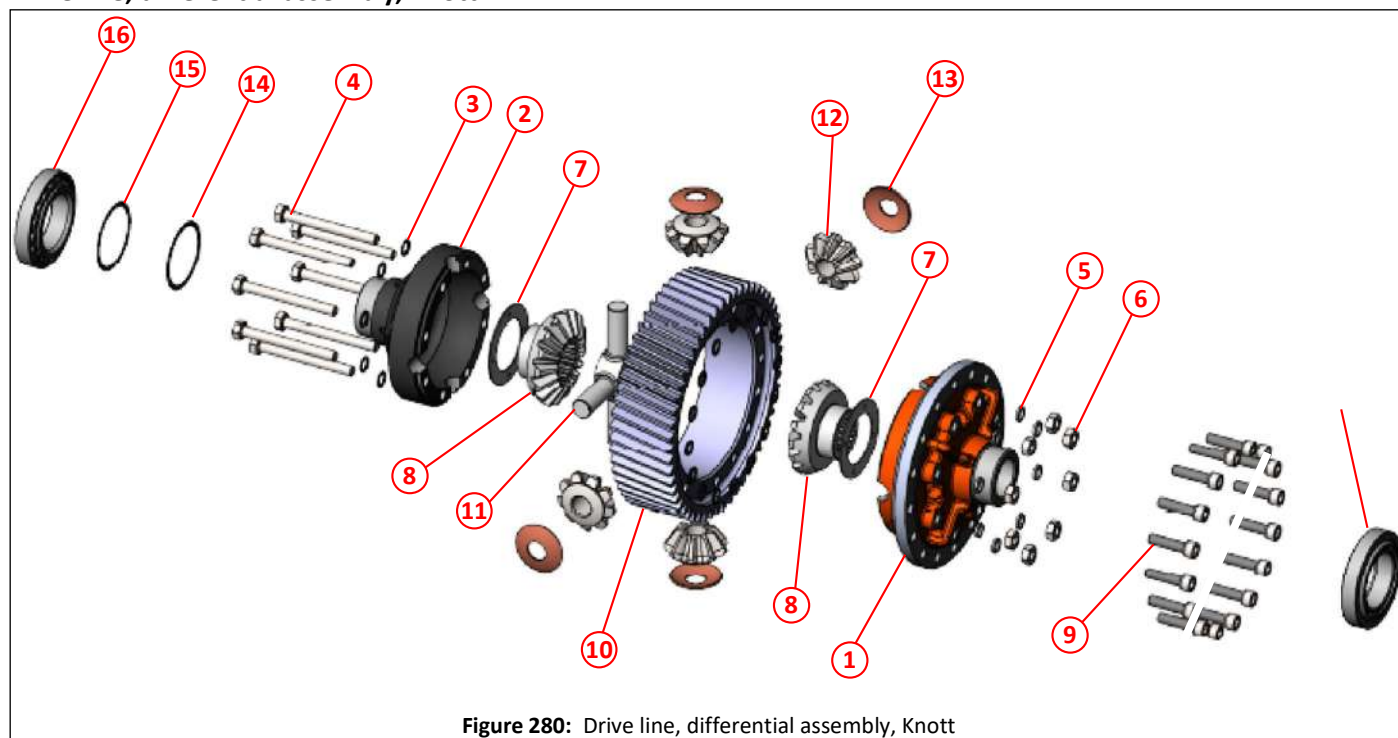


Figure 280: Drive line, differential assembly, Knott

Item	Part No	Qty	Description	
①	SCA048447	1	Differential case, female, M/C	
②	SCA048448	1	Differential case, male	
③	SCA048449	8	VS 10 washer	
④	SCA048450	8	Bolt M10 x 100	
⑤	SCA048451	8	Spring washer M10	
⑥	SCA048452	8	Plain nut M10	
⑦	SCA045928	2	Thrust washer 80 x 52	
⑧	SCA048453	2	Differential wheel gear 19 tooth inverted	
⑨	SCA048454	16	Socket cap screw m10 x 40	
⑩	SCA048455	1	Helical wheel	
⑪	SCA048456	1	Spider	
⑫	SCA045926	4	Differential pinion gear	
⑬	SCA045927	4	Cone thrust washer	
⑭	SCA048457	1	Shim ø66.66 X ø60.3 x 0.010"	
⑮	SCA048458	1	Shim ø66.66 x 60.33 x 0.008"	
⑯	SCA045930	2	Bearing 2.25" x 3.8125" x 0.826" - 4T-387A/382A	

Wheel and tyre

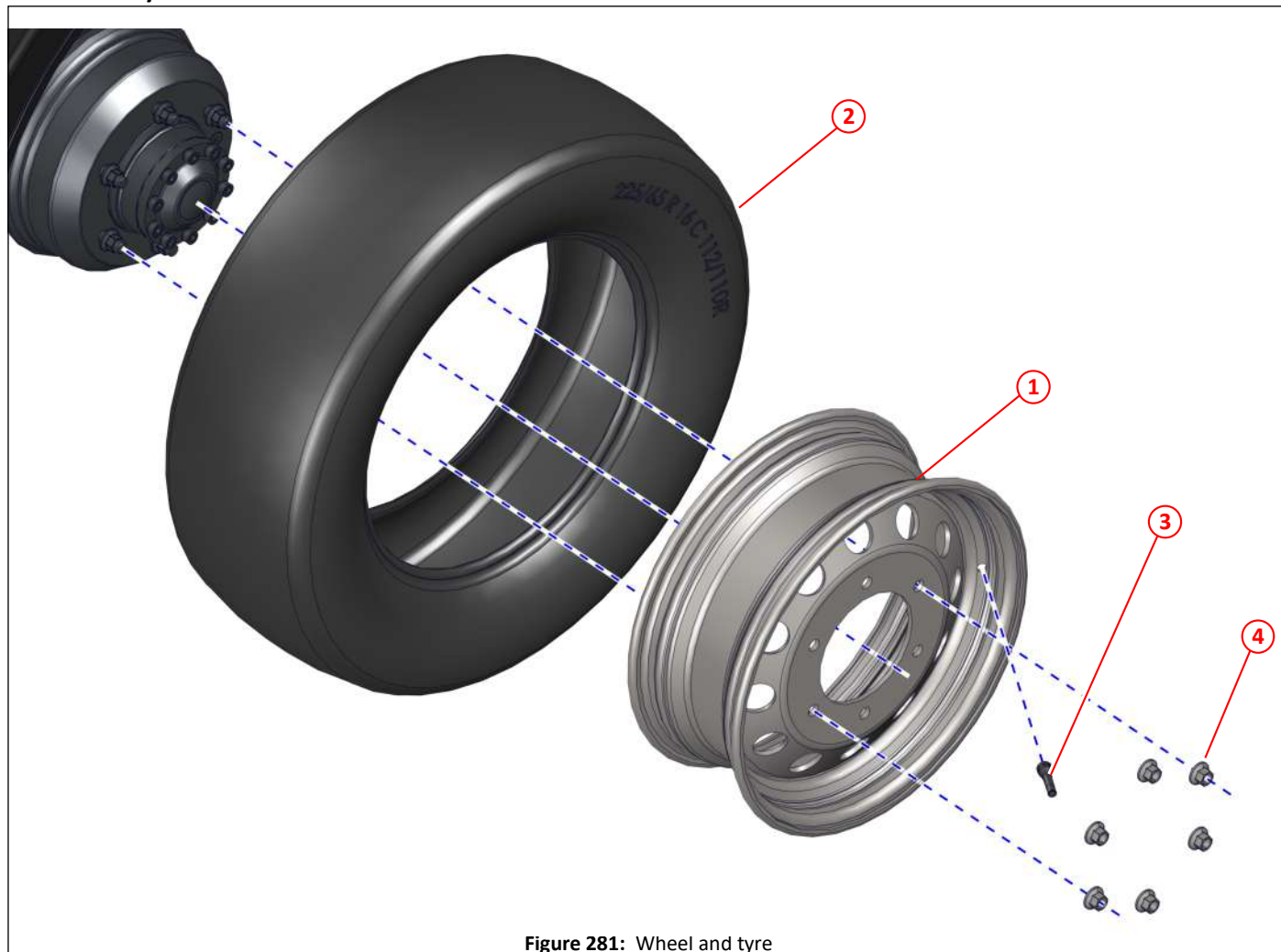


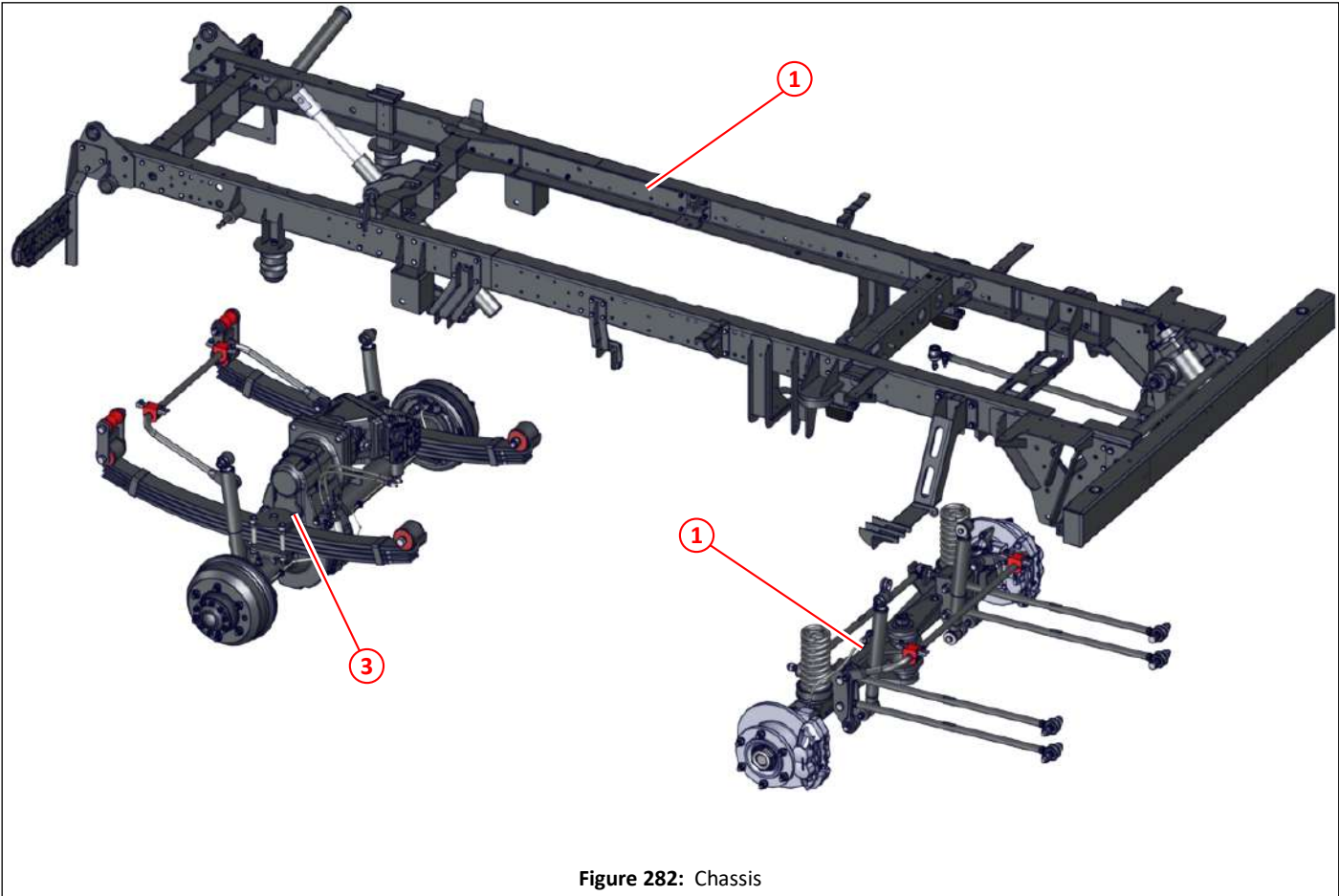
Figure 281: Wheel and tyre

Item	Part No	Qty	Description	
①	037199	1	Wheel 6J x 16	
②	038982	1	Tyre	
③	031137	1	Valve	
④	043671	6	Wheel nut, M14 x 1.5	
NI	037620	1	Wheel, tyre and valve complete assembly, includes items ①, ② and ③	

Chassis, suspension and gantry

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Chassis



Item	Part No	Qty	Description	
①		1	Chassis	341 ->
②		1	Front axle and suspension	358
③		1	Rear axle and suspension	367

Chassis, front cables and pipes tray and horn, not HEMA steering box

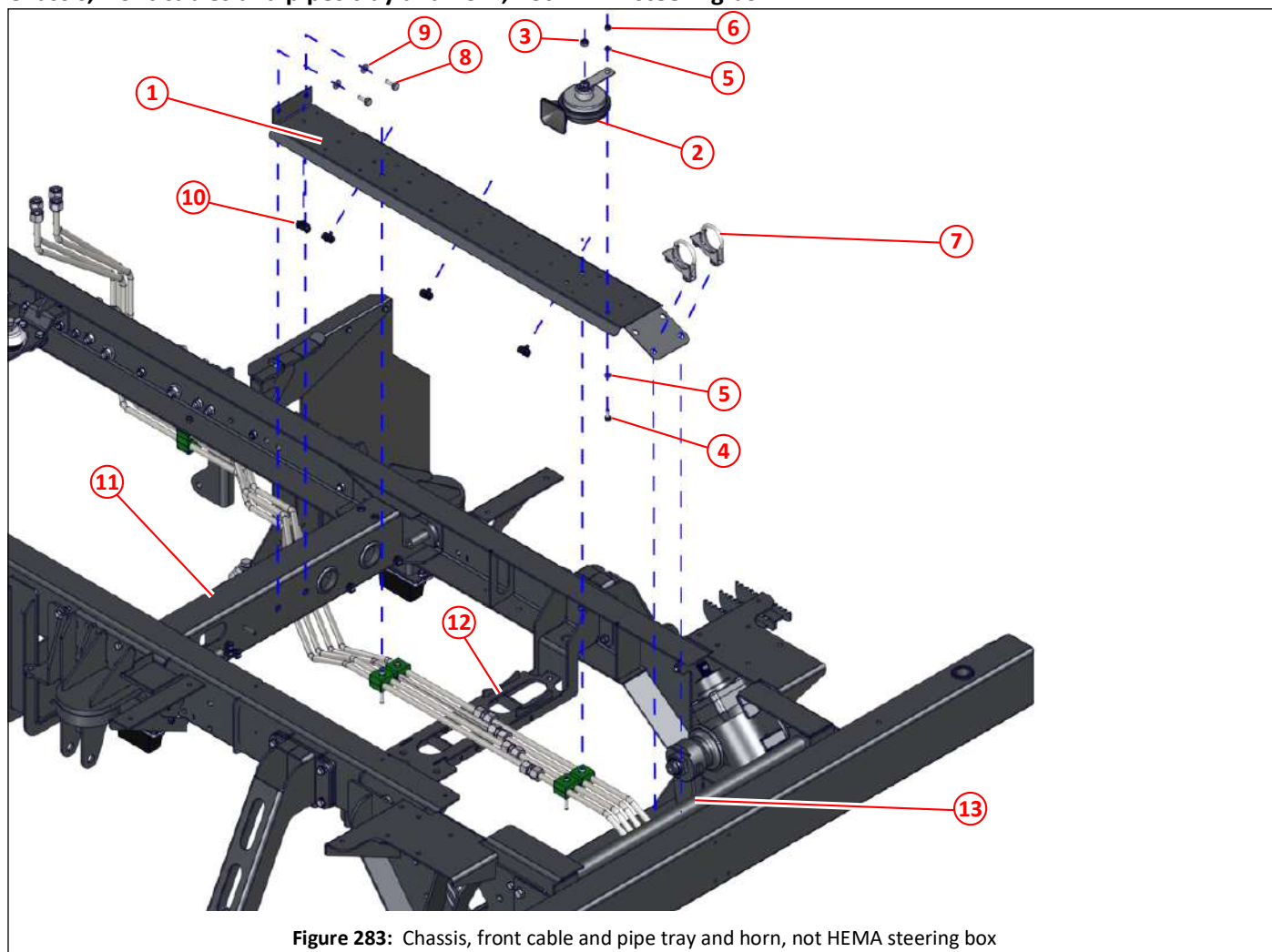


Figure 283: Chassis, front cable and pipe tray and horn, not HEMA steering box

Item	Part No	Qty	Description	
①	041979	1	Tray, front cables and pipes	
②	019123	1	Horn, 12v	
③	011073	1	Nyloc nut M8	
④	011001	1	Set screw M6 x 16	
⑤	011090	2	Plain washer M6	
⑥	011071	1	Nyloc nut M6	
⑦	023148	2	U-clamp 1½"	
⑧	011010	2	Set screw M8 x 20	
⑨	011092	2	Plain washer M8	
⑩	014196	4	Clip, pipe ø5, double	
⑪	040974	1	Chassis, cross member 'C'	
⑫	044402	1	Chassis, cross member 'C2'	
⑬	040975	1	Chassis, cross brace member 'D'	

Chassis, front cables and pipes tray and horn, with HEMA steering box

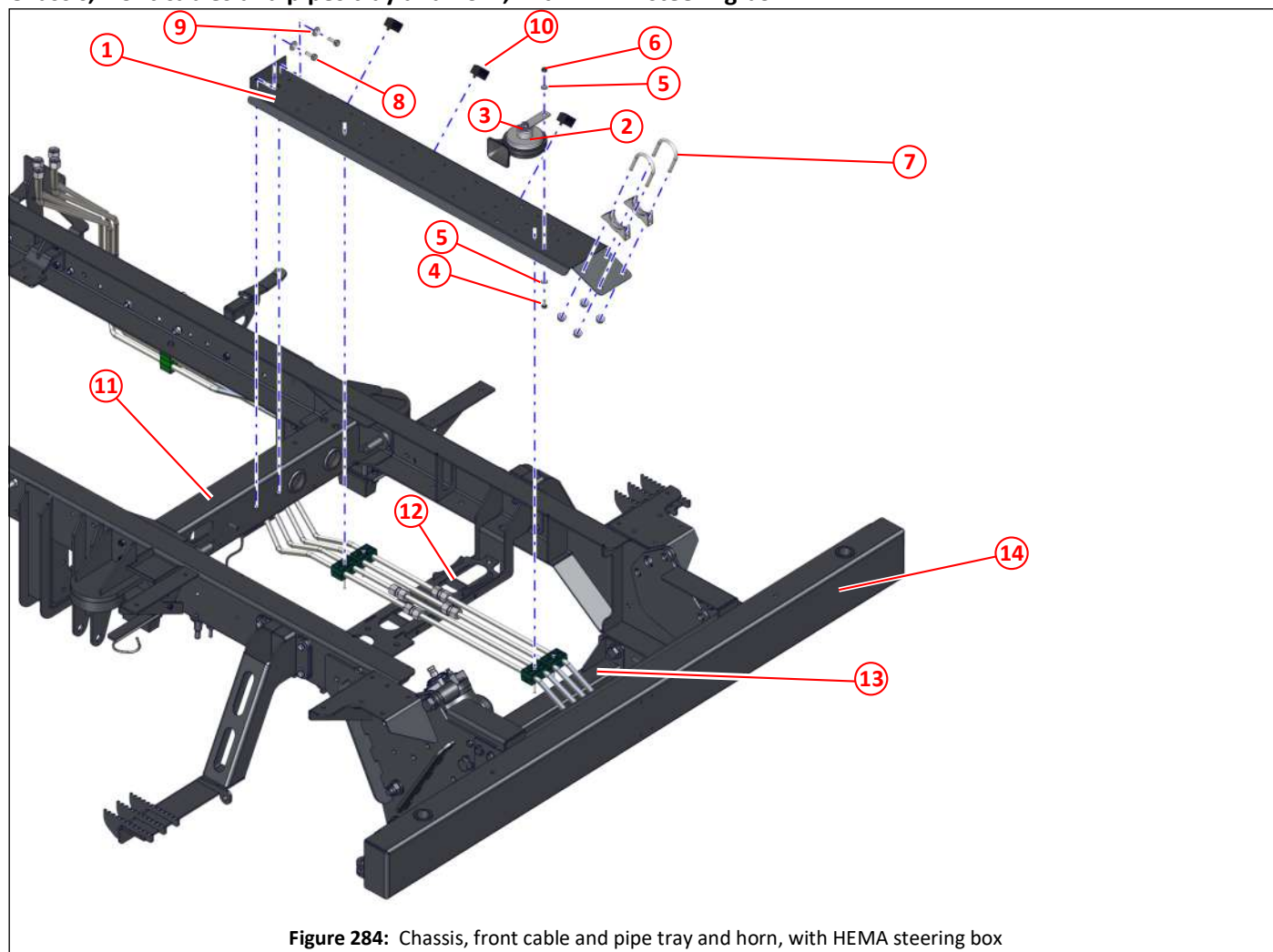


Figure 284: Chassis, front cable and pipe tray and horn, with HEMA steering box

Item	Part No	Qty	Description	
①	045990	1	Tray, front cables and pipes (HEMA)	
②	019123	1	Horn, 12v	
③	011073	1	Nyloc nut M8	
④	011001	1	Set screw M6 x 16	
⑤	011090	2	Plain washer M6	
⑥	011071	1	Nyloc nut M6	
⑦	014983	2	U-clamp 1 ⁵ / ₈ "	
⑧	011010	2	Set screw M8 x 20	
⑨	011092	2	Plain washer M8	
⑩	014196	3	Clip, pipe ø5, double	
⑪	040974	1	Chassis, cross member 'C'	
⑫	044402	1	Chassis, cross member 'C2'	
⑬	044373	1	Chassis, lower front brace (HEMA)	
⑭	045987	1	Front bumper (HEMA)	

Chassis, front bumper, not HEMA steering box

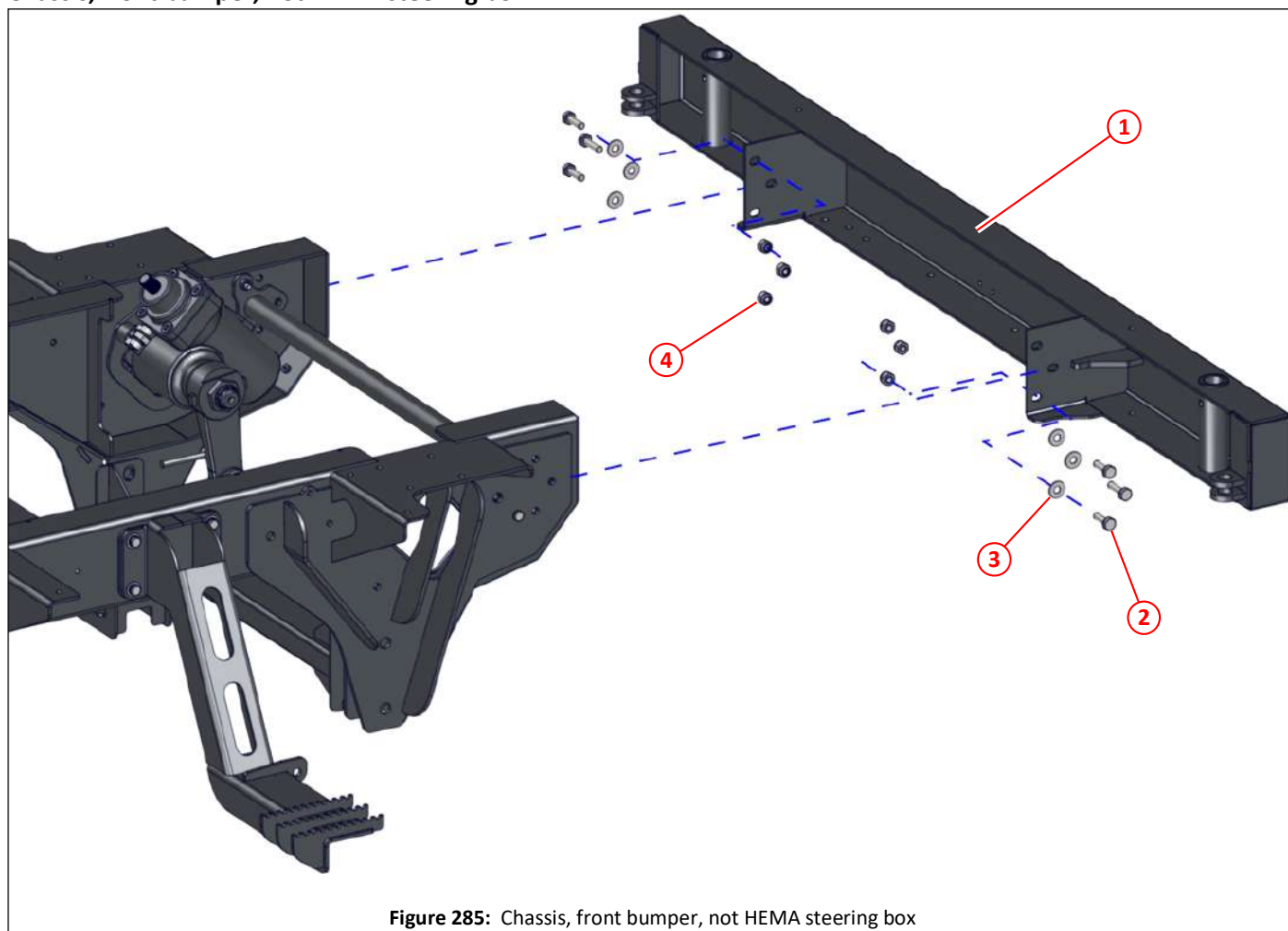


Figure 285: Chassis, front bumper, not HEMA steering box

Item	Part No	Qty	Description	
①	044417	1	Front bumper	
②	011033	6	Set screw M10 x 35	
③	011094	6	Plain washer M10	
④	011075	6	M10 Nyloc nut	

Chassis, front bumper and cross member 'D', with HEMA steering box

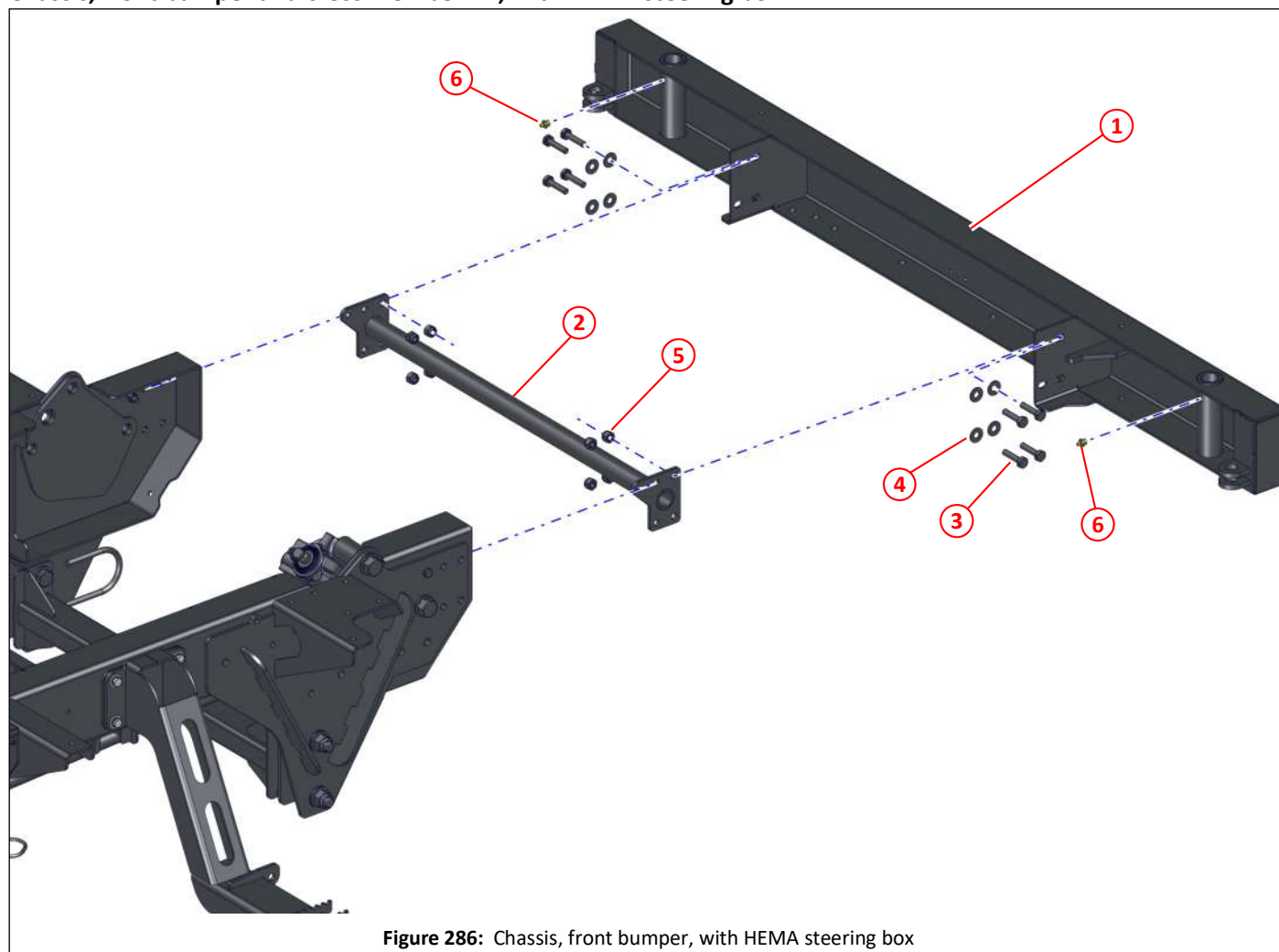


Figure 286: Chassis, front bumper, with HEMA steering box

Item	Part No	Qty	Description	
①	045987	1	Front bumper, (HEMA)	
②	045965	1	Chassis, cross brace member 'D', (HEMA)	
③	011034	8	Set screw M10 x 40	
④	011094	8	Plain washer M10	
⑤	011075	8	M10 Nyloc nut	
⑥	010903	2	Grease nipple, $\frac{1}{8}$ " BSP, straight	

Chassis, front cross braces, not HEMA steering box

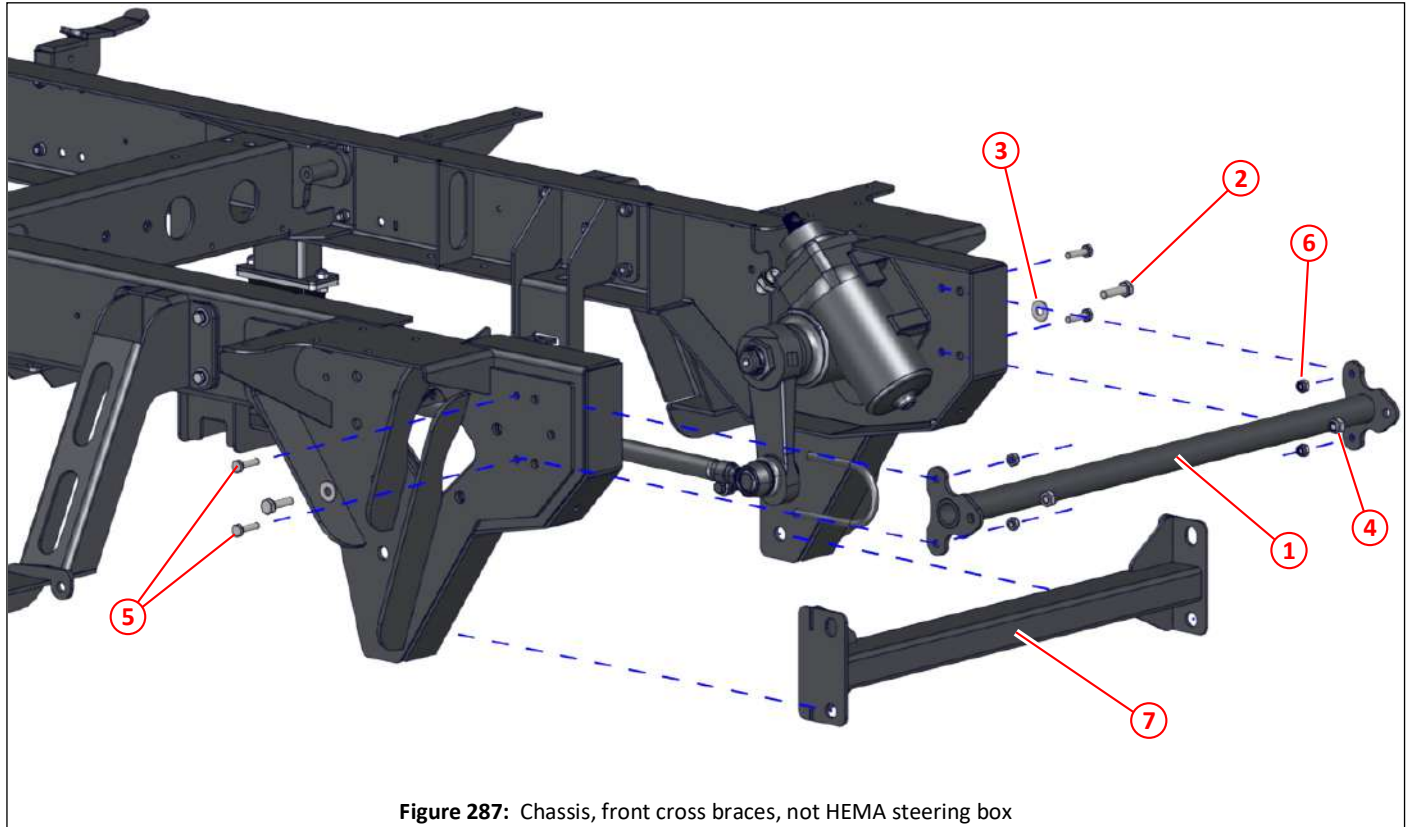
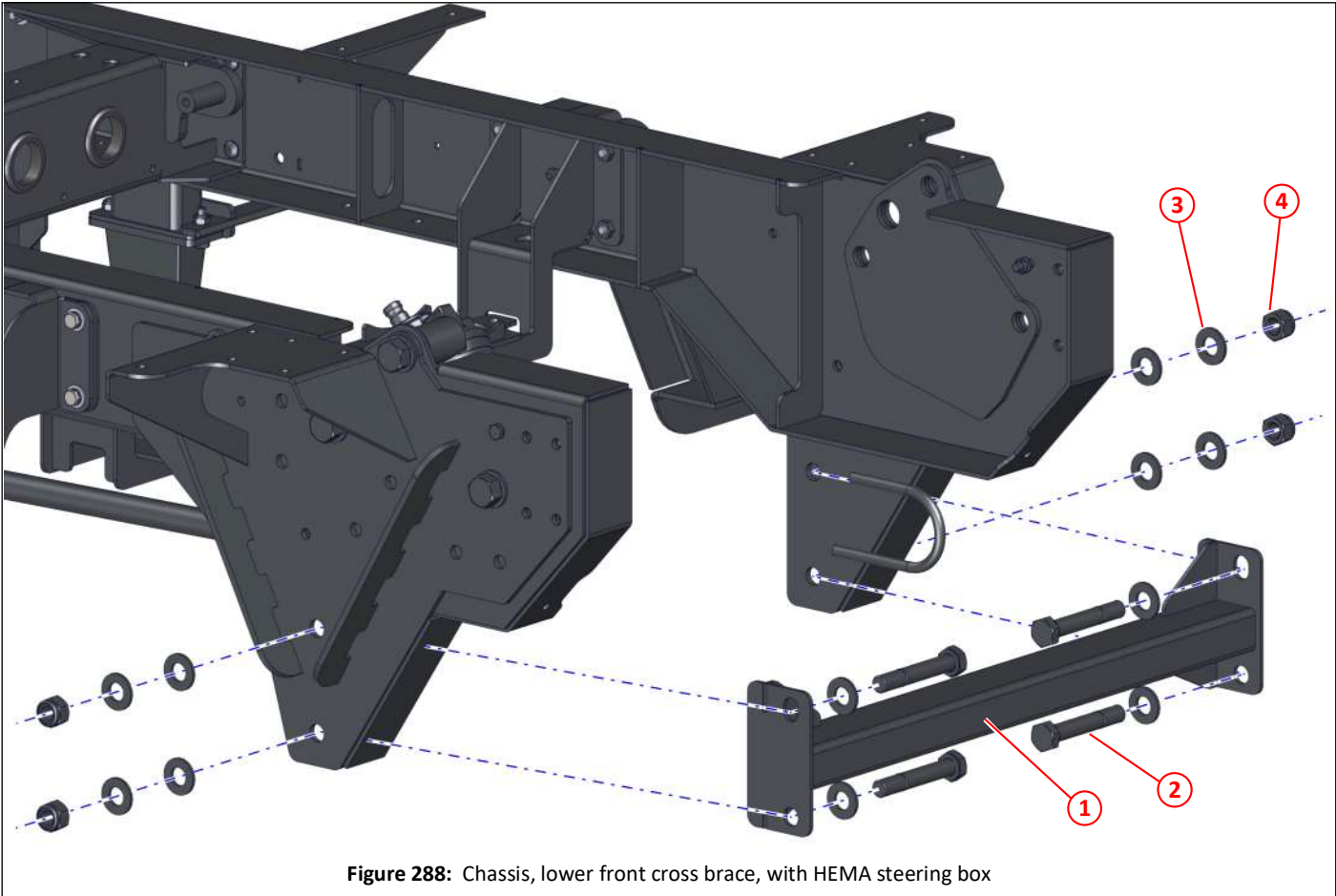


Figure 287: Chassis, front cross braces, not HEMA steering box

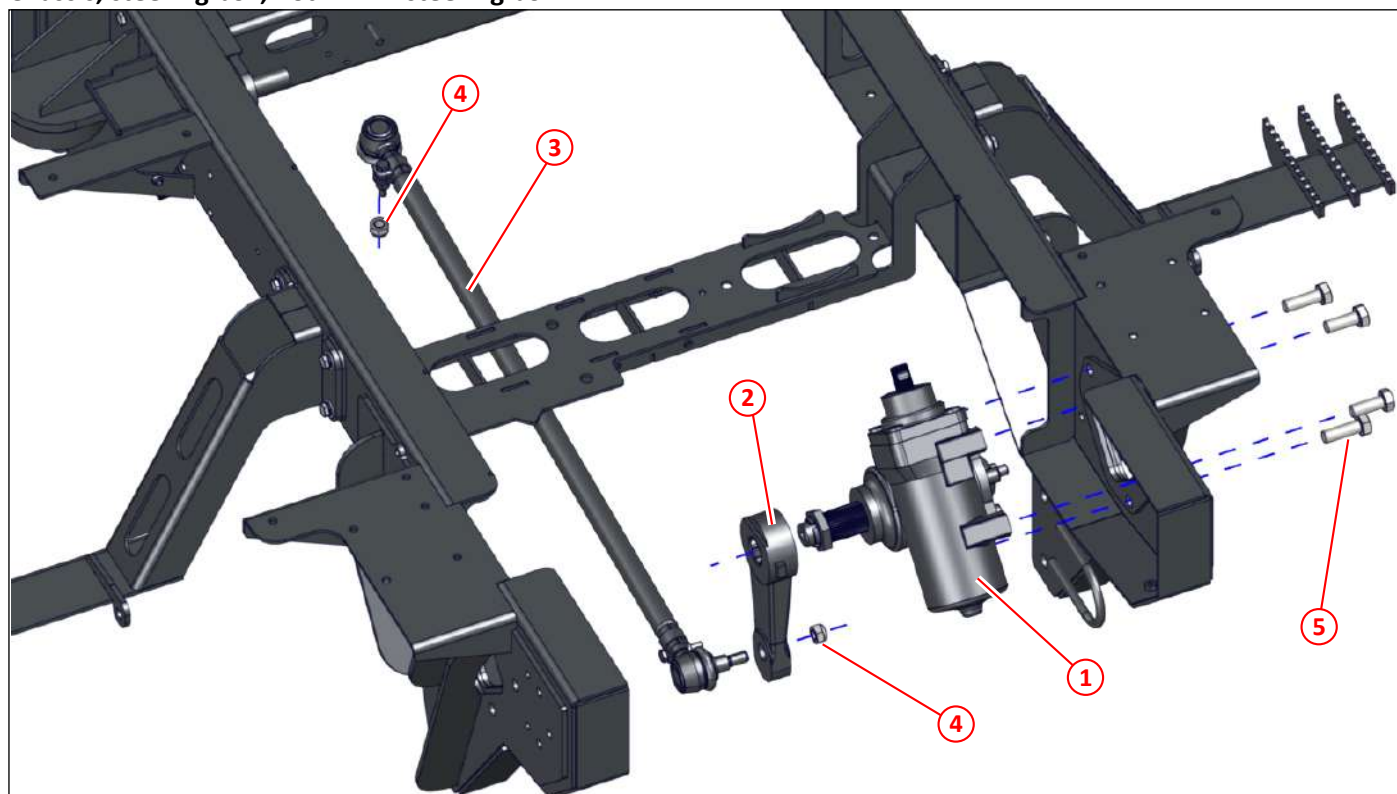
Item	Part No	Qty	Description	
①	040975	1	Chassis, cross brace member 'D'	
②	011033	2	Set screw M10 x 35	
③	011094	2	Plain washer M10	
④	011075	2	M10 Nyloc nut	
⑤	011012	4	Set screw M8 x 30	
⑥	011073	4	M8 Nyloc nut	
⑦	044373	1	Chassis, lower front cross brace	

Chassis, lower front cross brace, with HEMA steering box



Item	Part No	Qty	Description	
①	044373	1	Chassis, lower front cross brace, (HEMA)	
②	044483	4	Special bolt, M16 x 95	
③	011135	12	Plain washer M16	
④	011060	4	M16 Nyloc nut	

Chassis, steering box, not HEMA steering box

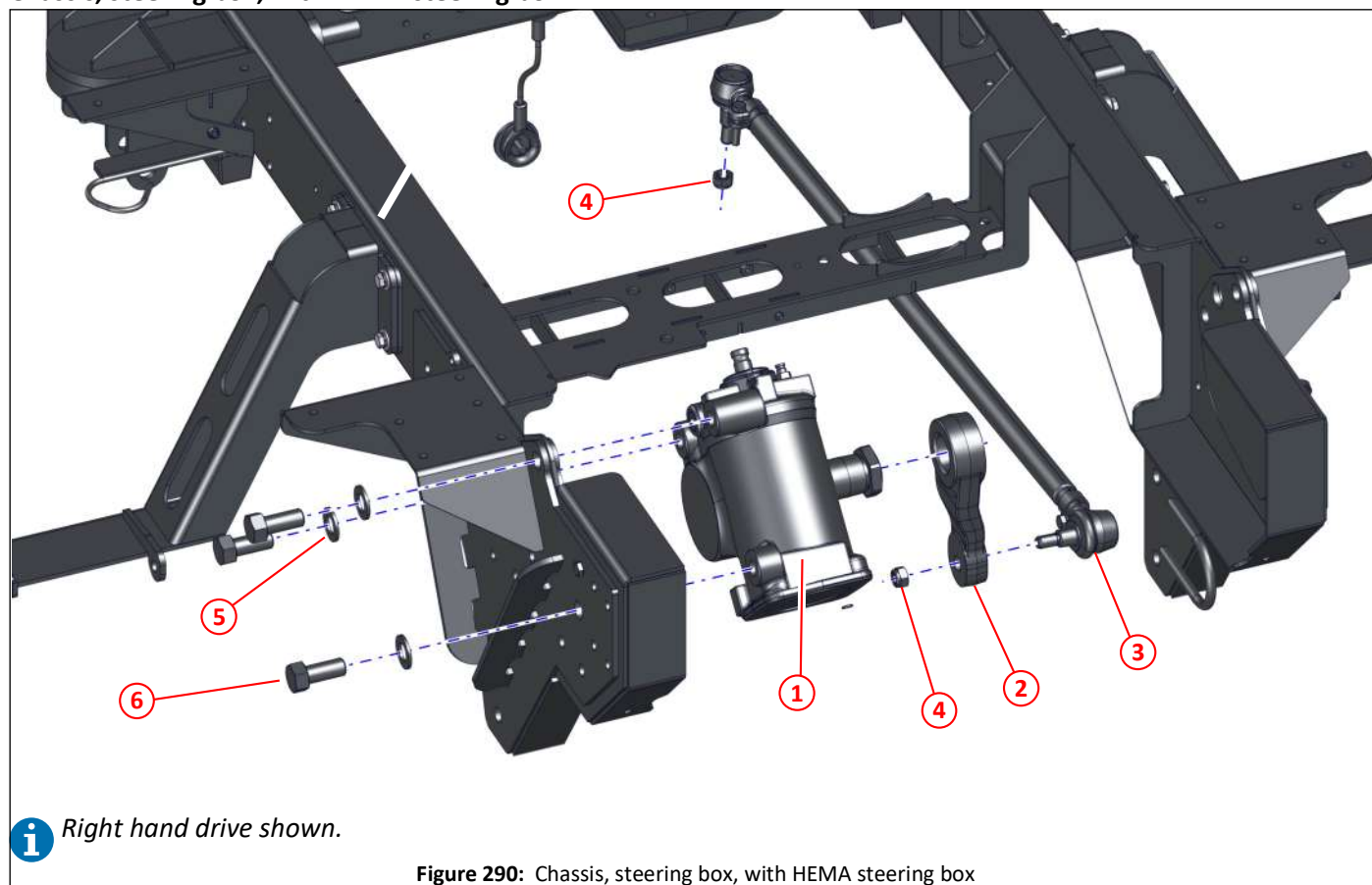


i Left hand drive shown.

Figure 289: Chassis, steering box, not HEMA steering box

Item	Part No	Qty	Description	
①	033057	1	Steering box for left hand drive	
①	033056	1	Steering box for right hand drive	
②	038790	1	Drop arm	
③	037262	1	Steering drag link	
④	048071	2	M14 fine nut	
⑤	000487	4	Screw M14 x 40 x 1.5, plated	

Chassis, steering box, with HEMA steering box



Item	Part No	Qty	Description	
①	045958	1	HEMA steering box for left hand drive	
①	045959	1	HEMA steering box for right hand drive	
②	045957	1	Drop arm, HEMA	
③	046000	1	Steering drag link, HEMA	
④	048071	2	M14 fine nut	
⑤	011138	3	Plain washer M18	
⑥	000505	3	Bolt M18 x 1.5 x 40 Grade 10.9	

Chassis, cab steps

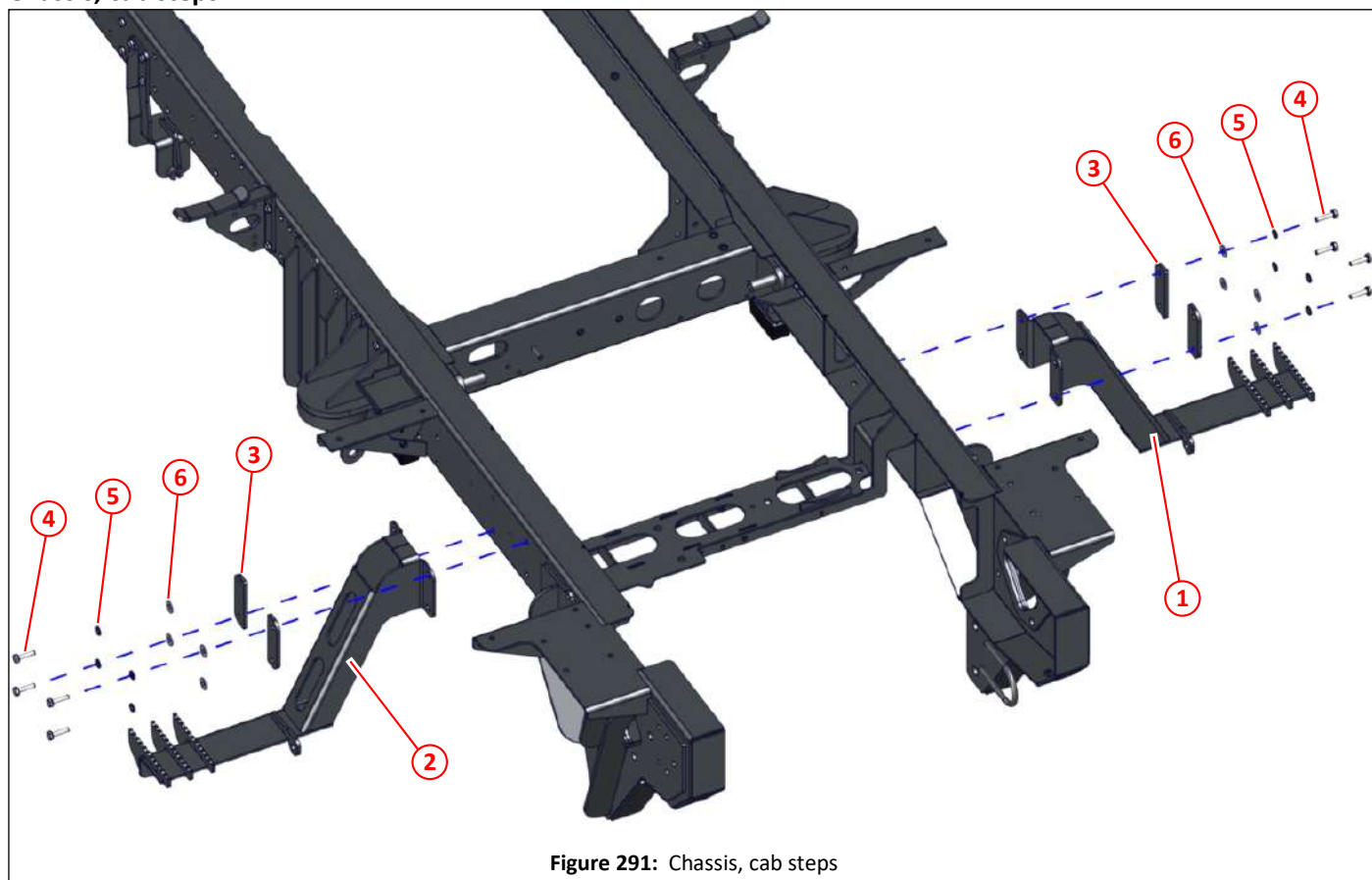


Figure 291: Chassis, cab steps

Item	Part No	Qty	Description	
①	041041	1	Step, left hand	
②	041042	1	Step, right hand	
③	031117	4	Clamp plate, step	
④	011012	8	Set screw M8 x 30, these bolt into cross member 'C2'	339
⑤	011093	8	Spring washer M8	
⑥	011092	8	Plain washer M8	

Chassis, front suspension bump stops and cab prop support

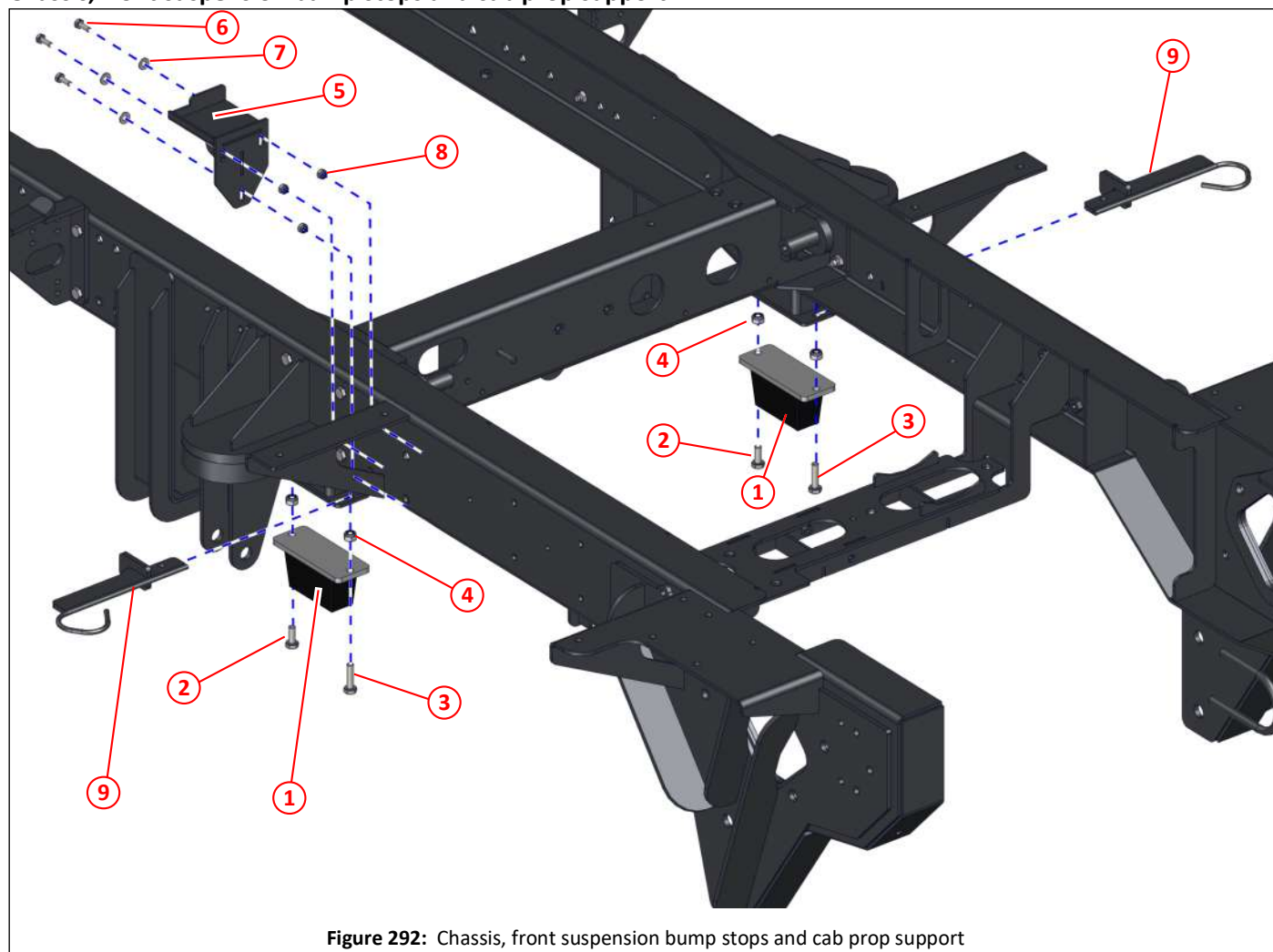


Figure 292: Chassis, front suspension bump stops and cab prop support

Item	Part No	Qty	Description	
①	037280	2	Bump stop, front suspension	358, 360
②	011010	2	Set screw M8 x 20	
③	011012	2	Set screw M8 x 30	
④	011073	4	M8 Nyloc nut	
⑤	042612	1	Bracket, cab prop support	
⑥	011001	3	Set screw M6 x 16	
⑦	011090	3	Plain washer M6	
⑧	011071	3	M6 Nyloc nut	
⑨	045594	2	Front brake hose guide	

Chassis, cross members 'C' and cab bump stop brackets

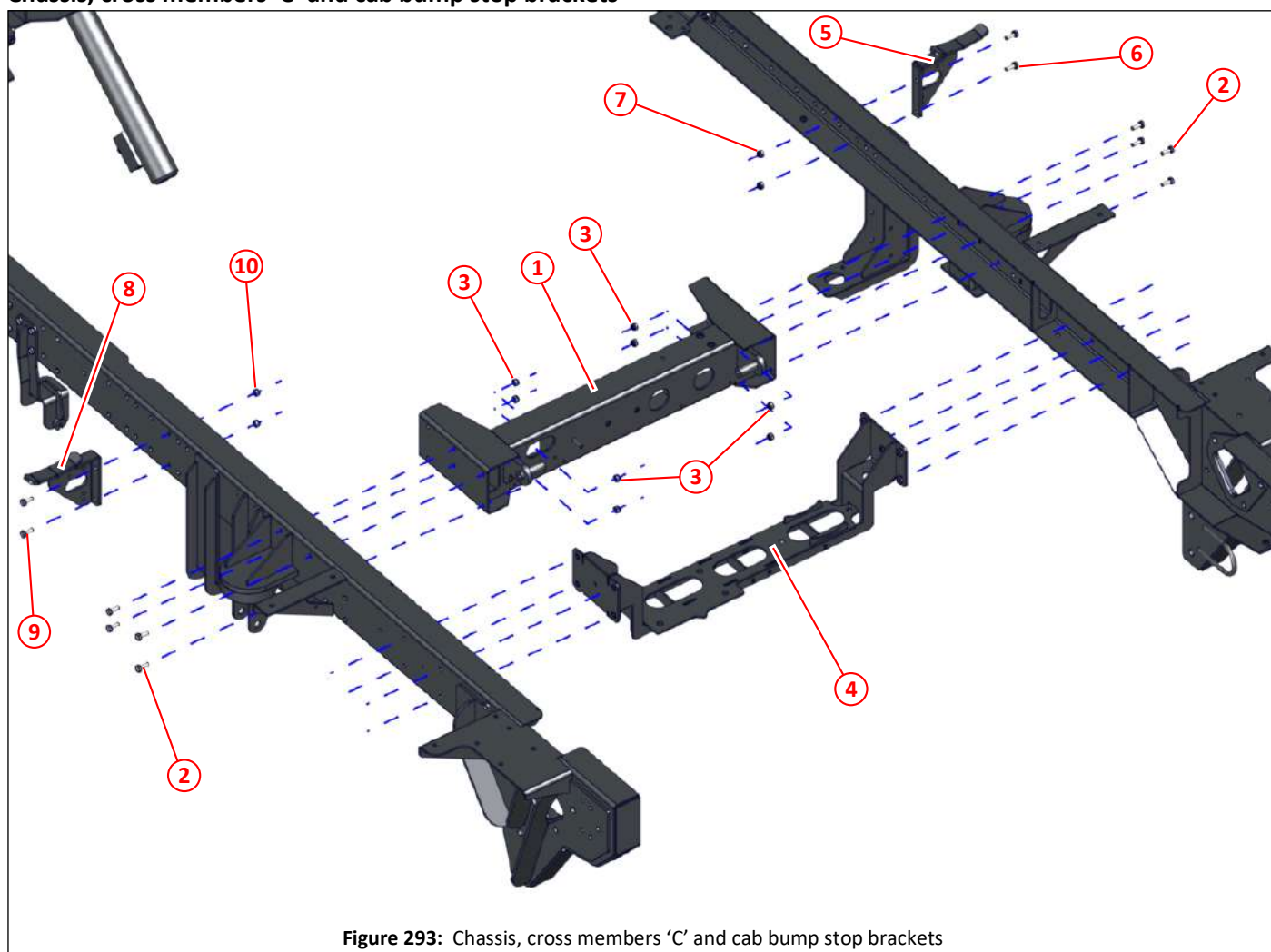


Figure 293: Chassis, cross members 'C' and cab bump stop brackets

Item	Part No	Qty	Description	
①	040974	1	Chassis, cross member 'C'	
②	011010	8	Set screw M8 x 20	
③	011073	8	M8 Nyloc nut	
④	044402	1	Chassis, cross member 'C2', this is attached using bolts from front steps	347
⑤	032562	1	Bracket, cab bump stop, left hand	
⑥	011010	2	Set screw M8 x 20	
⑦	011073	2	M8 Nyloc nut	
⑧	032562	1	Bracket, cab bump stop, right hand	
⑨	011010	2	Set screw M8 x 30	
⑩	011073	2	M8 Nyloc nut	

Chassis, brackets for engine, handbrake cable and central brush support

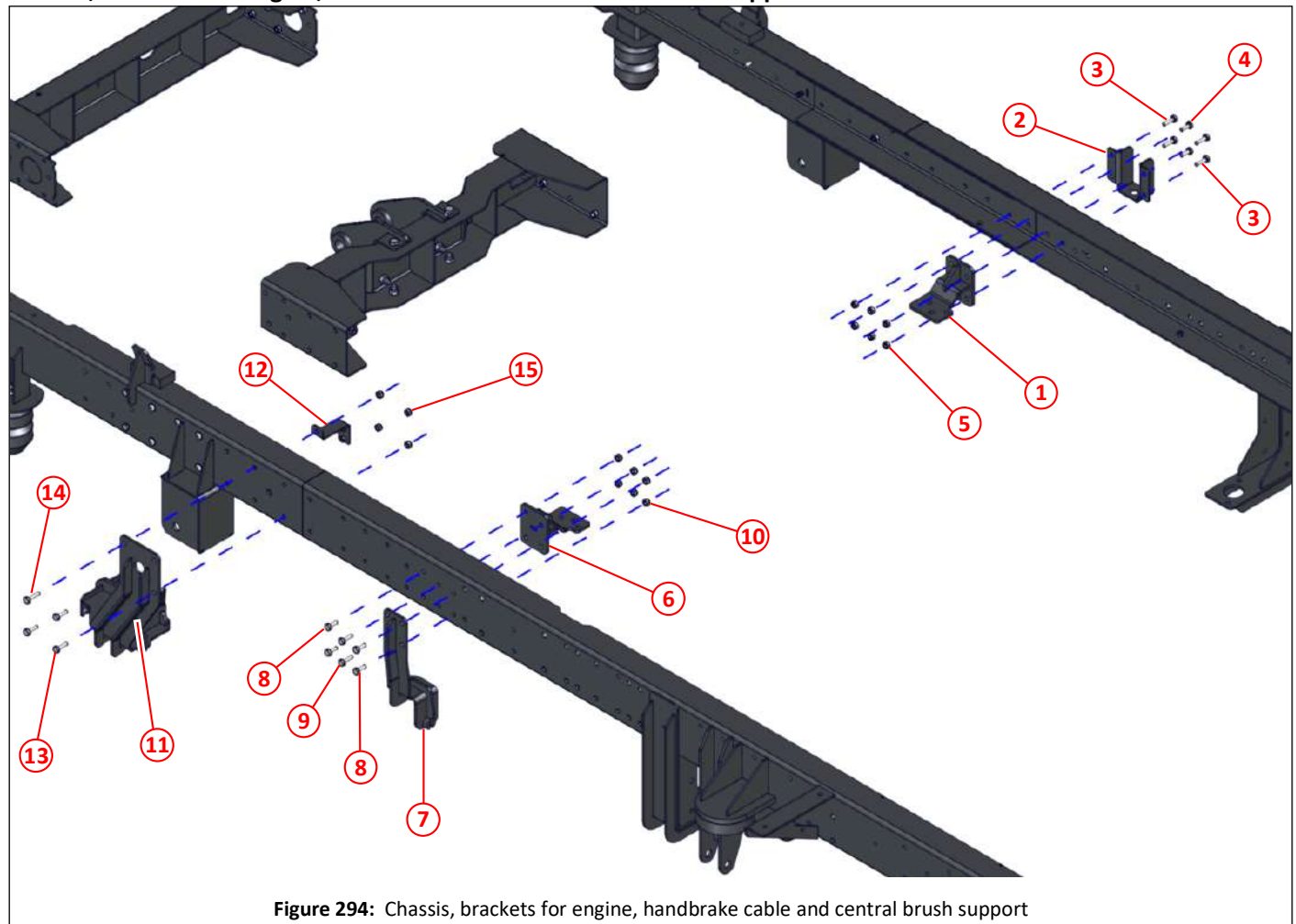


Figure 294: Chassis, brackets for engine, handbrake cable and central brush support

Item	Part No	Qty	Description	
①	041486	1	Chassis engine bracket left hand	
②	041524	1	Bracket, Central brush (wide sweep) suspension, mounted on sweep side	
③	011010	4	Set screw M8 x 25	
④	011011	2	Set screw M8 x 20	
⑤	011073	6	M8 Nyloc nut	
⑥	041487	1	Chassis engine bracket right hand	
⑦	042609	1	Handbrake adjustment mount	
⑧	011010	4	Set screw M8 x 20	
⑨	011011	2	Set screw M8 x 25	
⑩	011073	6	M8 Nyloc nut	
⑪	042610	1	Handbrake bracket rear	
⑫	042834	1	Bracket, pipe support 2	
⑬	011011	3	Set screw M8 x 20	
⑭	011012	1	Set screw M8 x 30	
⑮	011073	4	M8 Nyloc nut	

Chassis, cross member 'B' and hopper ram support brackets

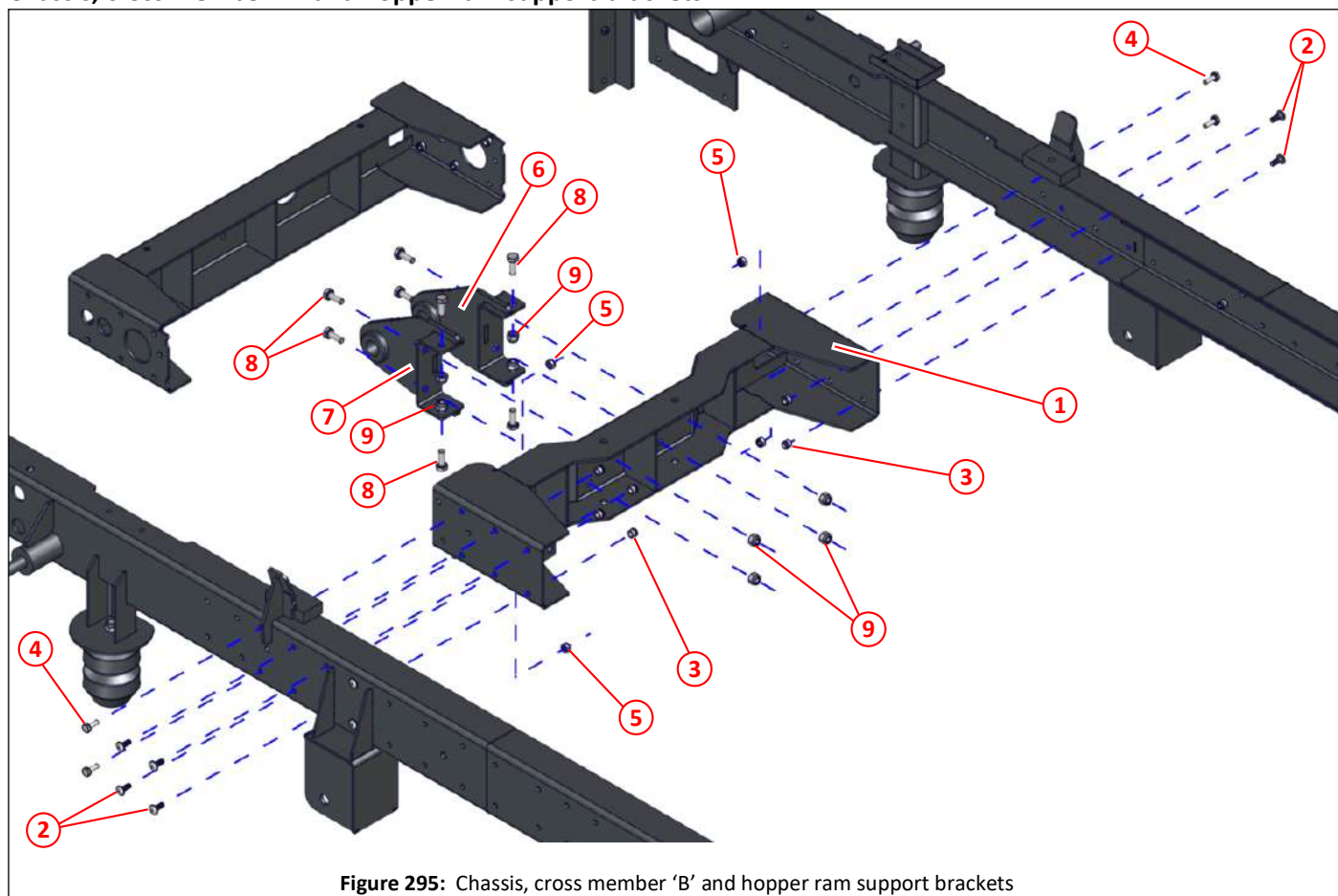


Figure 295: Chassis, cross member 'B' and hopper ram support brackets

Item	Part No	Qty	Description	
①	040973	1	Chassis, cross member 'B'	
②	013876	6	Huck bolt $\varnothing 8\text{mm}$ x 6.4mm (mean)	
③	013882	6	Huck bolt collar $\varnothing 8\text{mm}$	
④	011010	4	Set screw M8 x 20	
⑤	011073	4	M8 Nyloc nut	
⑥	041604	1	Hopper ram support, left hand	
⑦	041605	1	Hopper ram support, right hand	
⑧	011031	8	Set screw M10 x 25	
⑨	011075	8	M10 Nyloc nut	

Chassis, cross member 'A', rear bumper/light brackets, fuel filler, rear suspension bump stops

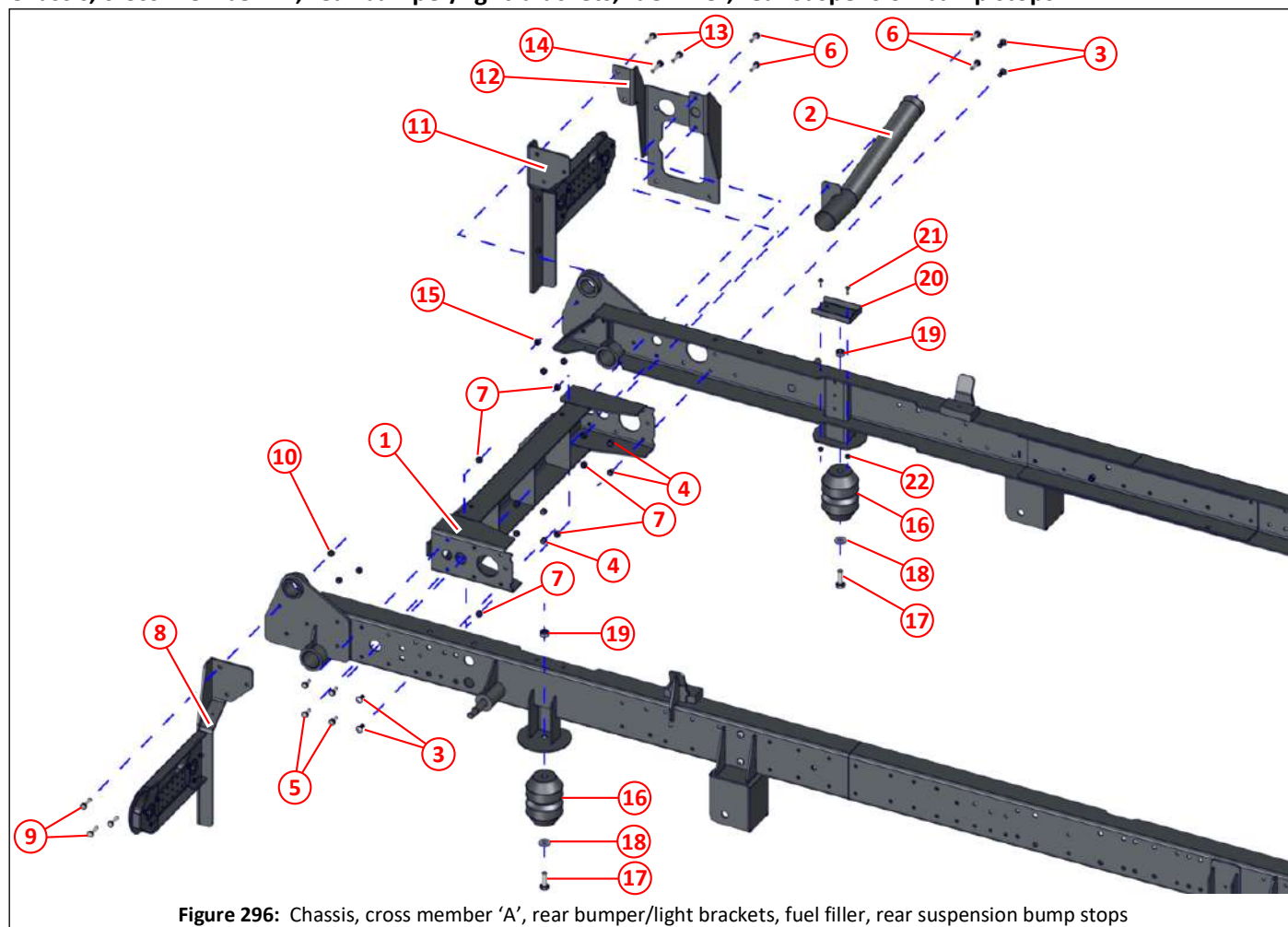


Figure 296: Chassis, cross member 'A', rear bumper/light brackets, fuel filler, rear suspension bump stops

Item	Part No	Qty	Description	
①	040972	1	Chassis, cross member 'A'	
②	040283	1	Fuel filler tube	315
③	013876	6	Huck bolt $\varnothing 8\text{mm} \times 6.4\text{mm}$ (mean)	
④	013882	6	Huck bolt collar $\varnothing 8\text{mm}$	
⑤	011010	4	Set screw M8 x 20	
⑥	011011	4	Set screw M8 x 25	
⑦	011073	8	M8 Nyloc nut	
⑧	040282	1	Mounting bracket, rear bumper and rear lights, right hand	
⑨	011012	3	Set screw M8 x 30	
⑩	011073	3	M8 Nyloc nut	
⑪	040281	1	Mounting bracket, rear bumper and rear lights, left hand	
⑫	040284	1	Bracket, hose reel	
⑬	011012	2	Set screw M8 x 30	
⑭	011013	1	Set screw M8 x 35	
⑮	011073	3	M8 Nyloc nut	
⑯	013755	2	Rubber Aeon hollow spring, rear suspension bump stop	
⑰	011053	2	Set screw M12 x 35	
⑱	011096	2	Plain washer M12	
⑲	011077	2	M12 Nyloc nut	
⑳	011757	1	Pocket, hopper safety prop, always mounted on the drivers side	
㉑	000090	2	Socket button head screw M6 x 16	
㉒	011071	2	M6 Nyloc nut	

Chassis, rear bumper and cover

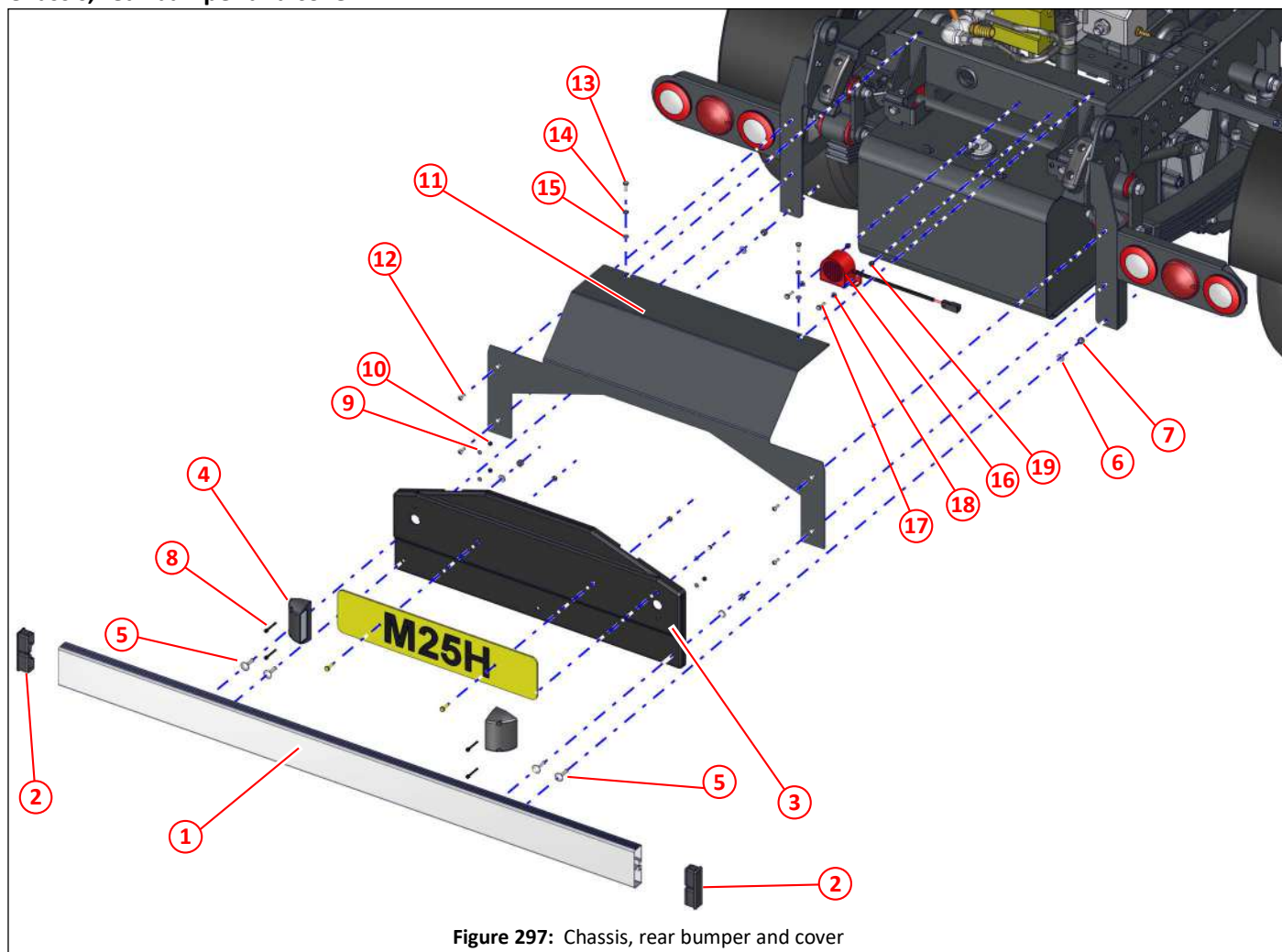


Figure 297: Chassis, rear bumper and cover

Item	Part No	Qty	Description	
①	028786	1	Under-run rear bumper	
②	028785	2	End cap, under-run bumper	
③	040285	1	Rear trim panel, lower	
④	042544	2	Light, number/registration plate	
⑤	011414	4	Coach bolt M8 x 30	
⑥	011092	4	Plain washer M8	
⑦	011073	4	M8 Nyloc nut	
⑧	000171	4	Socket cap head screw M5 x 35	
⑨	000410	4	Plain washer M5	
⑩	000155	4	M5 Nyloc nut	
⑪	041033	1	Rear trim panel, upper	
⑫	000338	4	Button socket head screw M6 x 16	
⑬	011001	2	Set screw M6 x 16	
⑭	011091	2	Spring washer M6	
⑮	011090	2	Plain washer M6	
⑯	037666	1	Hopper and door operation sounder / Reverse bleeper	
⑰	011067	2	Set screw M6 x 20	
⑱	011090	2	Plain washer M6	
⑲	011071	2	M6 Nyloc nut	

Chassis, rear lights, left hand side

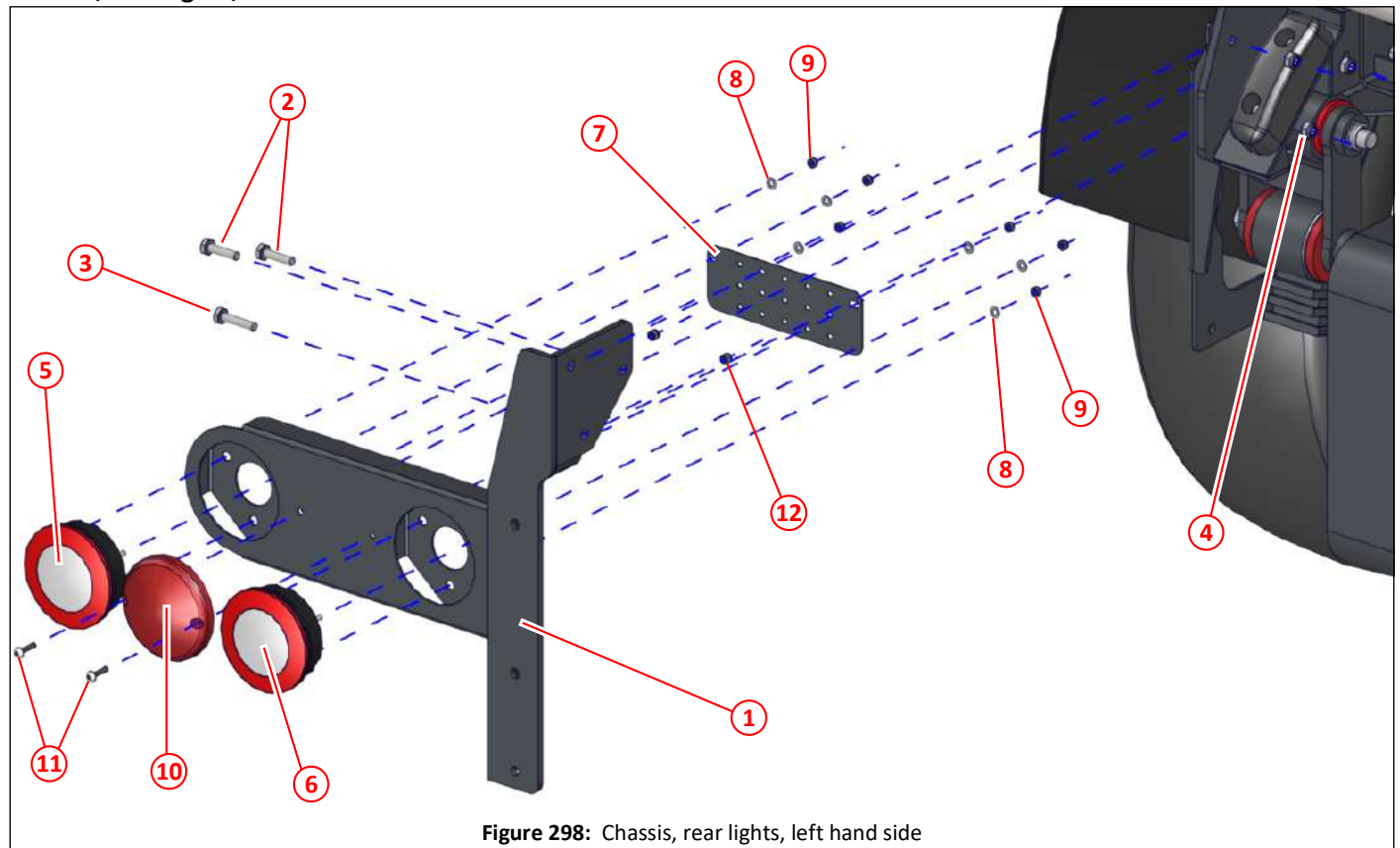


Figure 298: Chassis, rear lights, left hand side

Item	Part No	Qty	Description	
①	040281	1	Mounting bracket, rear bumper and rear lights, left hand	
②	011012	2	Set screw M8 x 30	
③	011013	1	Set screw M8 x 35	
④	011073	3	M8 Nyloc nut	
⑤	042719	1	LED turn signal/stop/rear light	
⑥	042718	1	LED reverse/fog light	
⑦	043100	1	Cable plate, rear light	
⑧	000410	6	Plain washer M5	
⑨	000155	6	M5 Nyloc nut	
⑩	042522	1	Rear reflector	
⑪	000381	2	Stainless steel socket dome head screw M5 x 20	
⑫	000347	2	Stainless steel M5 Nyloc nut	
NI	042931	1	Wiring loom, chassis	

Chassis, rear lights, right hand side

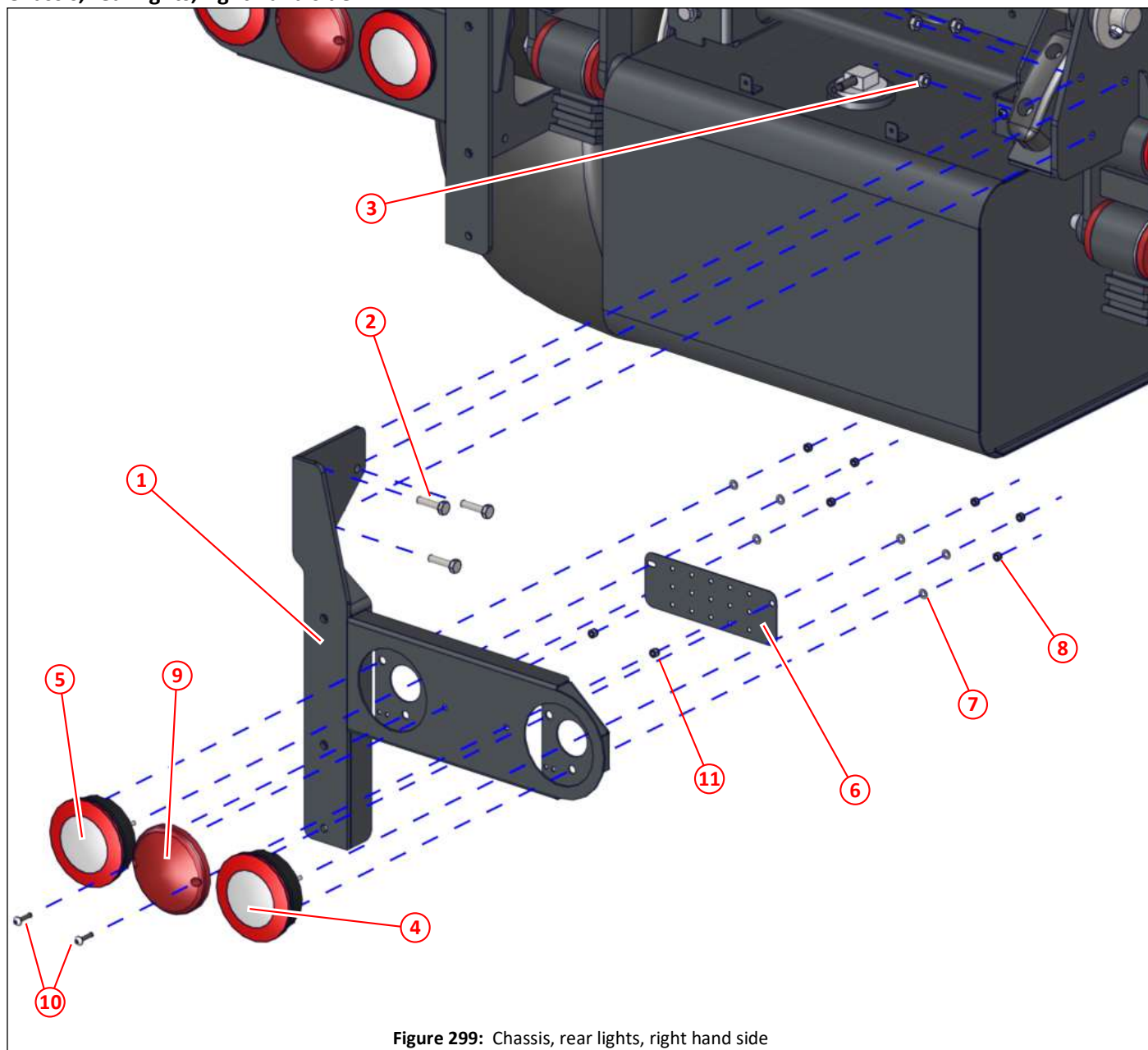
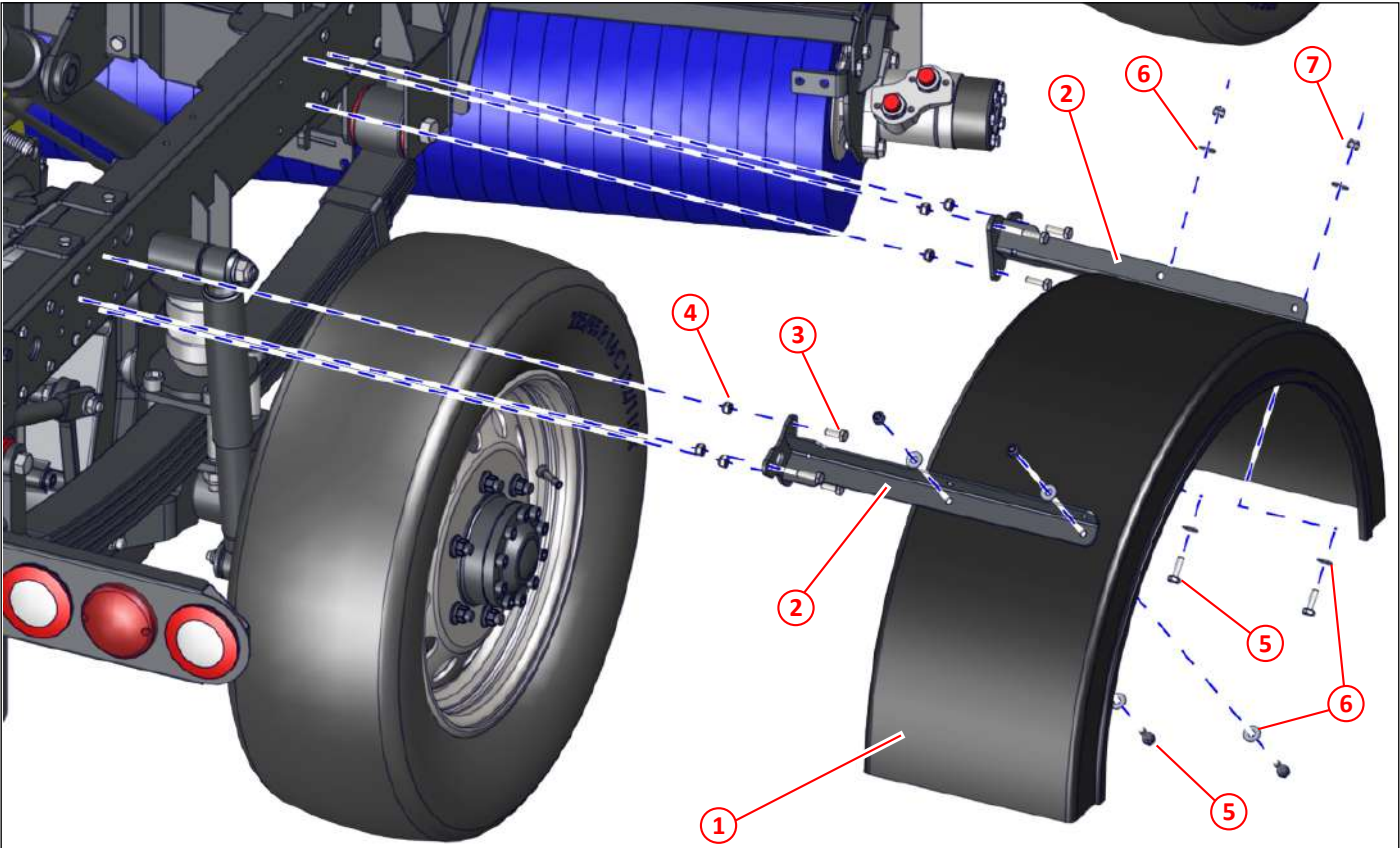


Figure 299: Chassis, rear lights, right hand side

Item	Part No	Qty	Description	
①	040282	1	Mounting bracket, rear bumper and rear lights, right hand	
②	011012	3	Set screw M8 x 30	
③	011073	3	M8 Nyloc nut	
④	042719	1	LED turn signal/stop/rear light	
⑤	042718	1	LED reverse/fog light	
⑥	043100	1	Cable plate, rear light	
⑦	000410	6	Plain washer M5	
⑧	000155	6	M5 Nyloc nut	
⑨	042522	1	Rear reflector	
⑩	000381	2	Stainless steel socket dome head screw M5 x 20	
⑪	000347	2	Stainless steel M5 Nyloc nut	
NI	042931	1	Wiring loom, chassis	

Chassis, rear mudguard



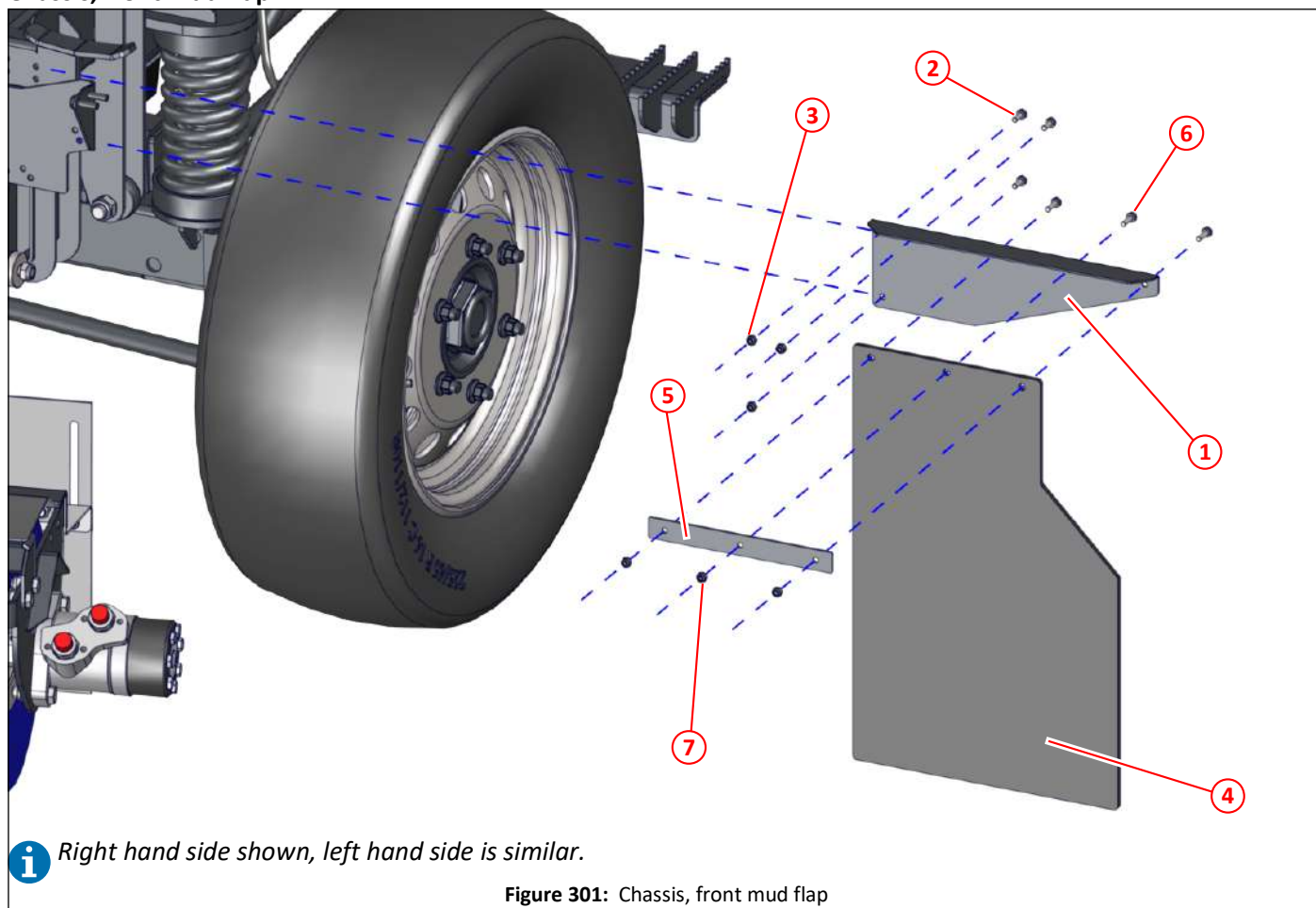
 *Right hand side shown, left hand side is opposite.*

Figure 300: Chassis, rear mudguard

Item	Part No	Qty	Description	
①	037255	1	Mudguard	
②	039206	2	Stay, mudguard	
③	011010	6	Set screw M8 x 20	
④	011073	6	M8 Nyloc nut	
⑤	000257	4	Set screw M8 x 25, stainless steel	
⑥	000264	8	Plain washer M8, stainless steel	
⑦	000263	4	Nyloc nut M8, stainless steel	

 *Quantities shown are for a single mudguard.*

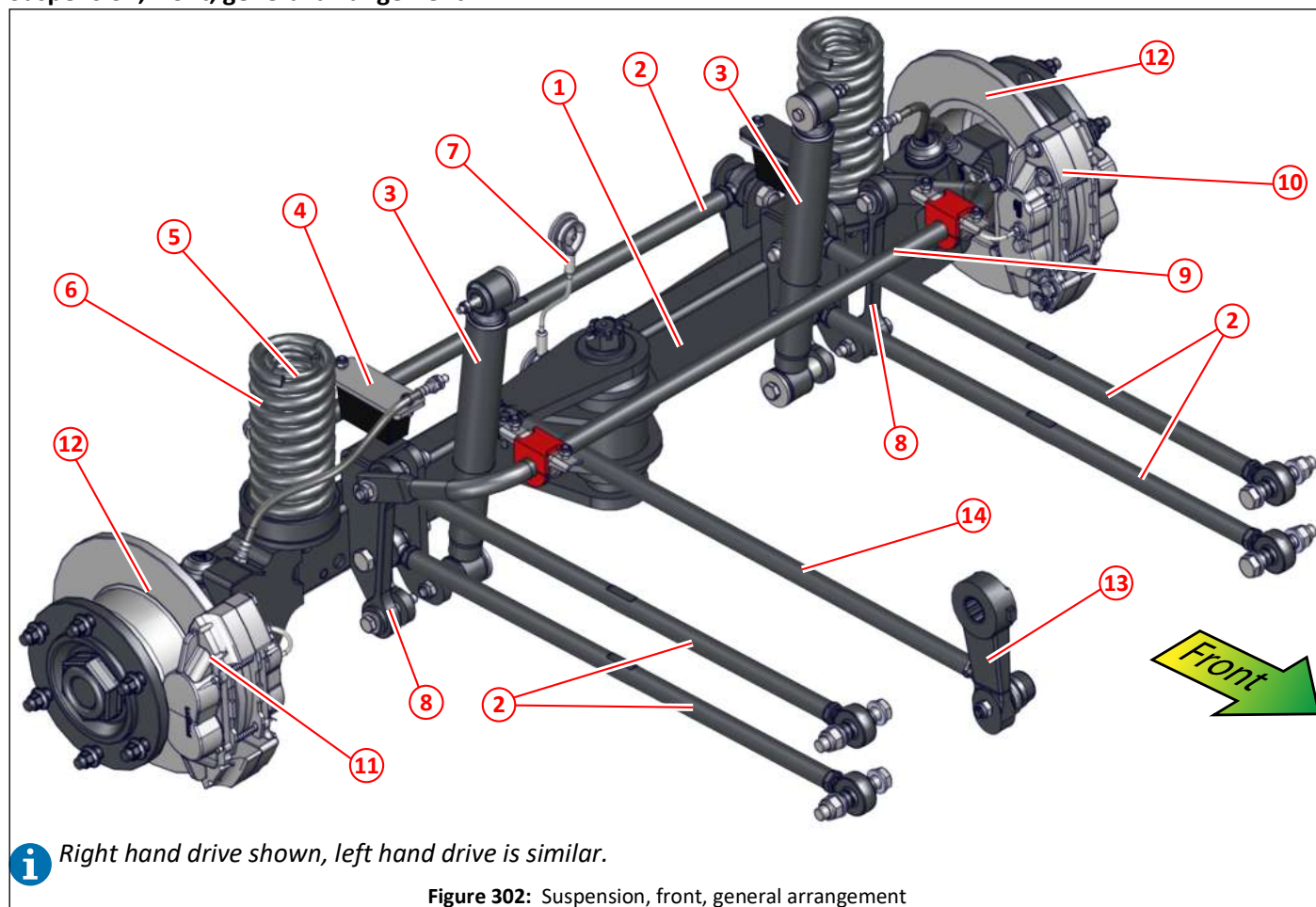
Chassis, front mud flap



Item	Part No	Qty	Description	
①	043088	1	Bracket, mud flap, front, right hand side	
NI	043087	1	Bracket, mud flap, front, left hand side	
②	011001	3	Set screw M6 x 16	
③	011071	3	M6 Nyloc nut	
④	042681	1	Mud flap, front	
⑤	042682	1	Clamp strip, mud flap	
⑥	011067	3	Set screw M6 x 20	
⑦	011071	3	M6 Nyloc nut	

i Quantities shown are for a single mud flap.

Suspension, front, general arrangement



Item	Part No	Qty	Description	
①	044432	1	Front axle assembly, right hand drive	365
NI	036078	1	Front axle assembly, left hand drive	365
②	042323	5	Suspension arm	362
③	100035	2	Shock absorber	361
④	037280	2	Bump stop, front suspension	348, 360
⑤	042104	2	Coil spring, front inner	360
⑥	042105	2	Coil spring, front outer	360
⑦	041477	1	Tether, front axle	360
⑧	037231	2	Link, stabiliser bar	359
⑨	036316	1	Stabiliser bar	359
⑩		1	Front brake caliper, left hand side	
⑪		1	Front brake caliper, right hand side	
⑫	044940	2	Front brake disc/rotor	
⑬	038790	1	Drop arm, not HEMA steering	345
⑬	045957	1	Drop arm, HEMA steering	346
⑭	037262	1	Drag link, steering	345

Suspension, front, front stabiliser bar

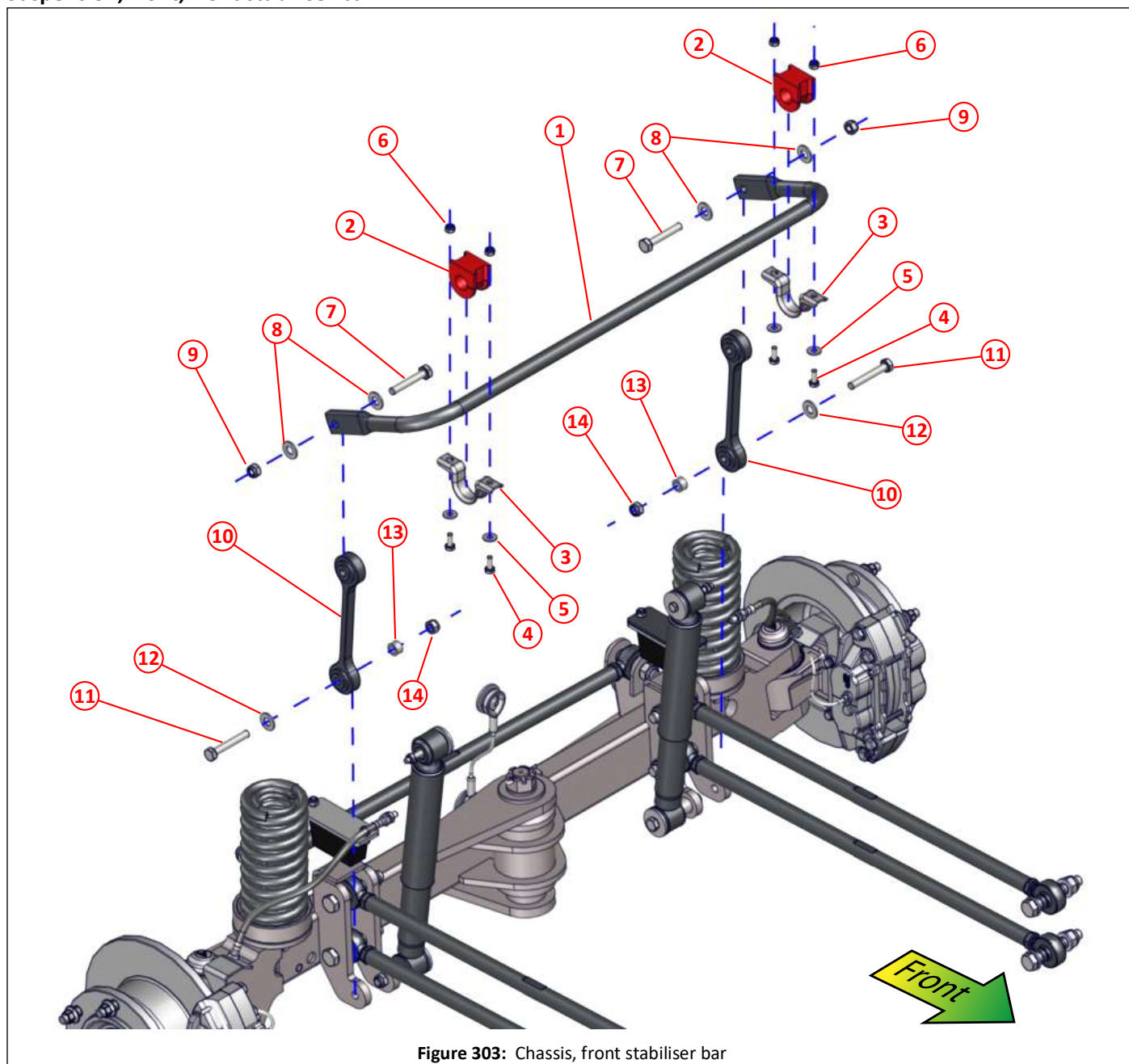


Figure 303: Chassis, front stabiliser bar

Item	Part No	Qty	Description	
①	036316	1	Stabiliser bar, front	358
②	044581	2	Bush, PU, stabiliser bar	
③	027671	2	Clamp, stabiliser bar	
④	011010	4	Set screw M8 x 20	
⑤	011092	4	Plain washer M8	
⑥	011073	4	M8 Nyloc nut	
⑦	011055	2	Bolt M12 x 65	
⑧	011096	4	Plain washer M12	
⑨	011077	2	M12 Nyloc nut	
⑩	037231	2	Link, stabiliser bar	358
⑪	011056	2	Bolt M12 x 70	
⑫	011096	2	Plain washer M12	
⑬	011724	2	Spacer Ø 12.5 x Ø20 x 11	
⑭	011077	2	M12 Nyloc nut	

Suspension, front, coil springs and bump stops

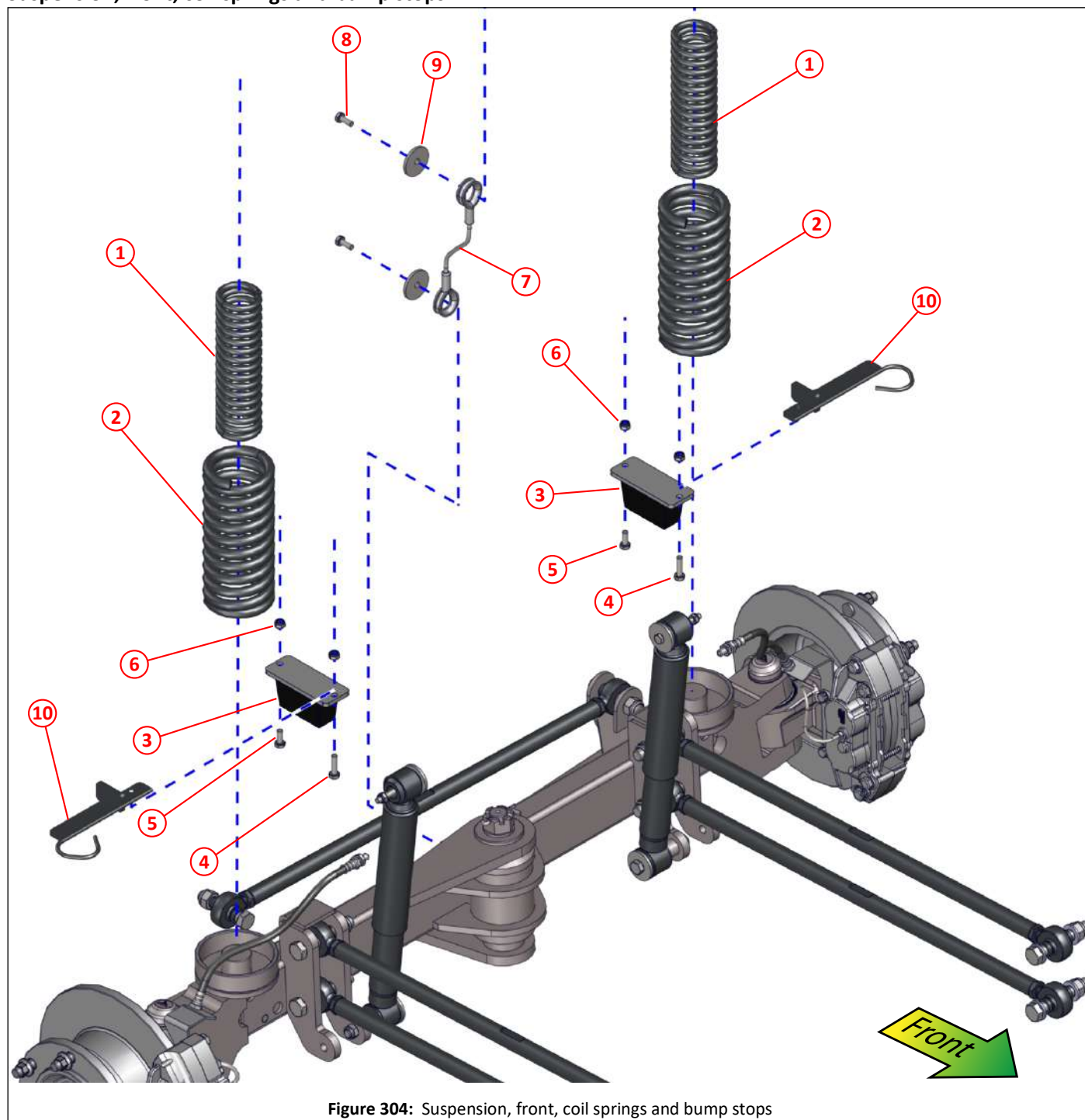


Figure 304: Suspension, front, coil springs and bump stops

Item	Part No	Qty	Description	
①	042104	2	Coil spring, front inner	358
②	042105	2	Coil sprint, front outer	358
③	037280	2	Bump stop, front suspension	348, 358
④	011012	2	Set screw M8 x 30	
⑤	011010	4	Set screw M8 x 20	
⑥	011073	4	M8 Nyloc nut	
⑦	041477	1	Tether, front axle	358
⑧	011010	2	Set screw M8 x 20	
⑨	042998	2	Washer ø9 x ø45 x 4	
⑩	045594	2	Front brake hose guide	

Suspension, front, shock absorbers

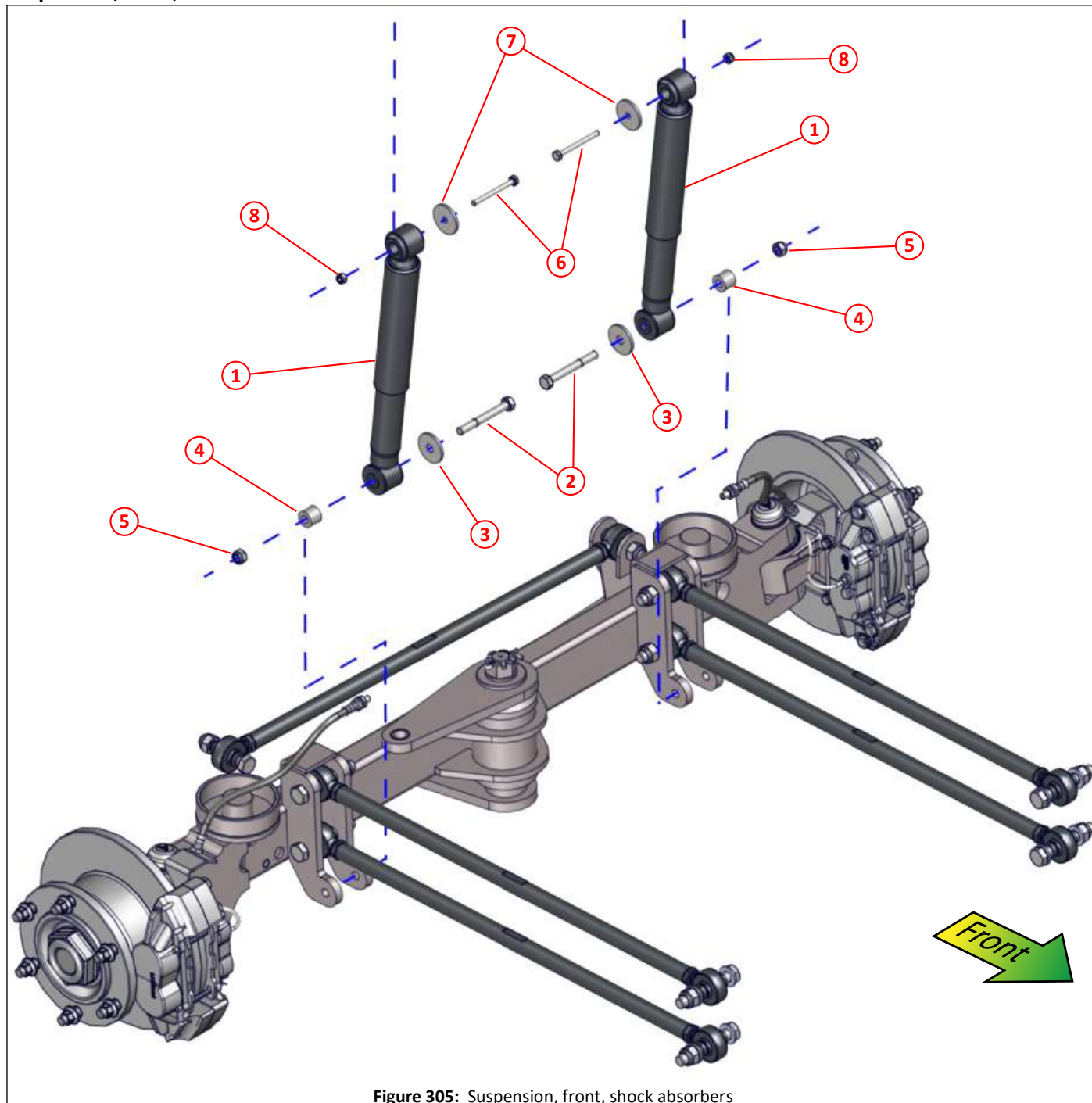


Figure 305: Suspension, front, shock absorbers

Item	Part No	Qty	Description	
①	100035	2	Shock absorber	338
②	000139	2	Bolt M12 x 90 (10.9)	
③	044364	2	Washer $\phi 12.5 \times \phi 45 \times 4$	
④	042995	2	Spacer $\phi 12.5 \times \phi 25 \times 20$	
⑤	011077	2	M12 Nyloc nut	
⑥	011410	2	Set screw M8 x 75	
⑦	042998	2	Washer $\phi 9 \times \phi 45 \times 4$	
⑧	011073	2	M8 Nyloc nut	

Suspension, front, suspension arms

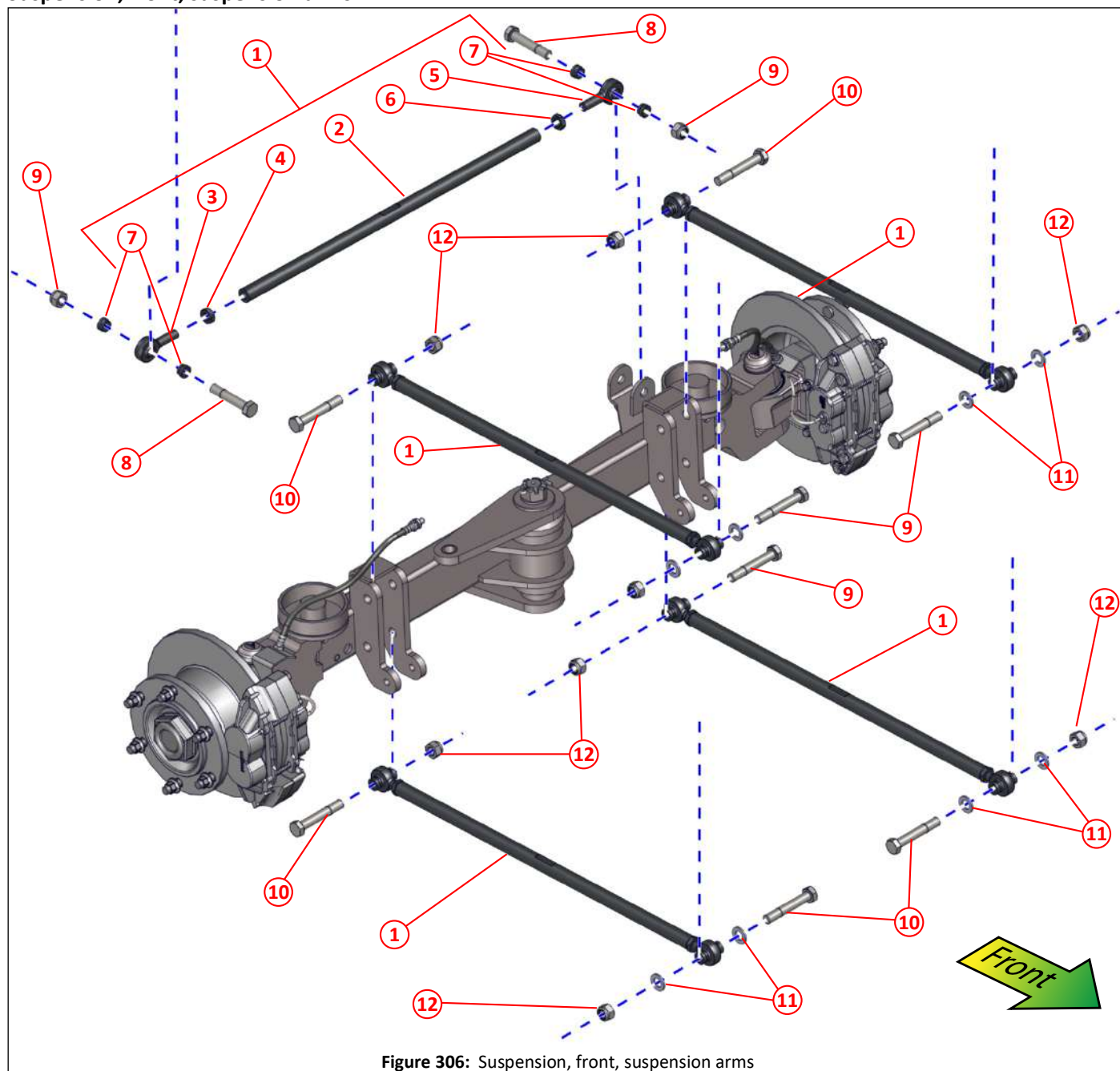
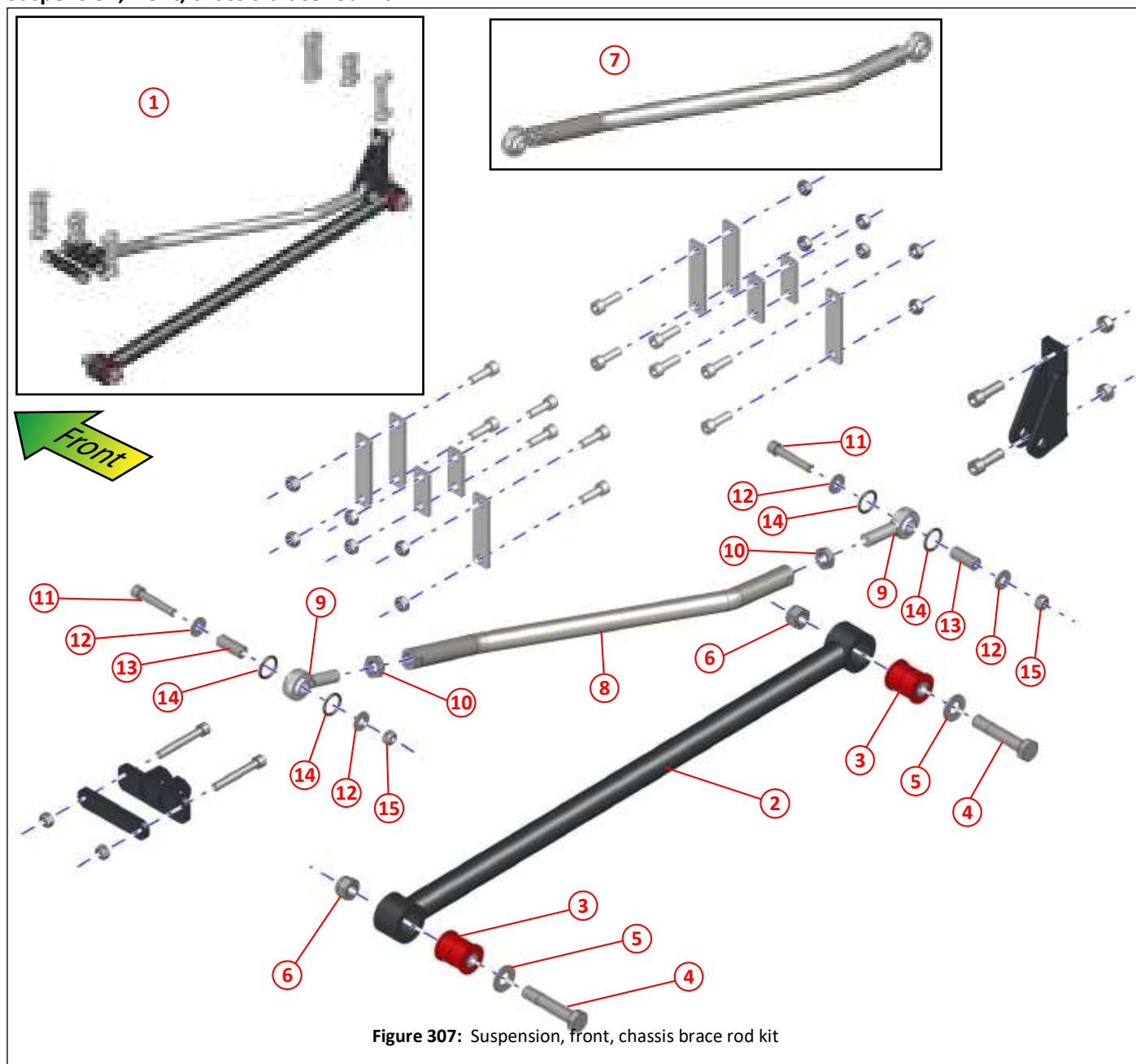


Figure 306: Suspension, front, suspension arms

Item	Part No	Qty	Description
①	042323	5	Suspension arm, complete, each arm is made up of items ②, ③, ④, ⑤, ⑥ and ⑦
②	044230 *	1	Suspension link
③	042319	1	Rod end, male, right hand thread
④	000457	1	Half locknut, M16 x 2, right hand thread
⑤	042320	1	Rod end, male, left hand thread
⑥	000458	1	Half locknut, M16 x 2, left hand thread
⑦	042322	4	Seal spacer, rubber
⑧	044482	2	Special bolt M16 x 80 (8.8 grade)
⑨	011060	2	M16 Nyloc nut
⑩	044483	8	Special bolt M16 x 95 (8.8 grade)
⑪	011135	8	Plain washer M16
⑫	011060	8	M16 Nyloc nut

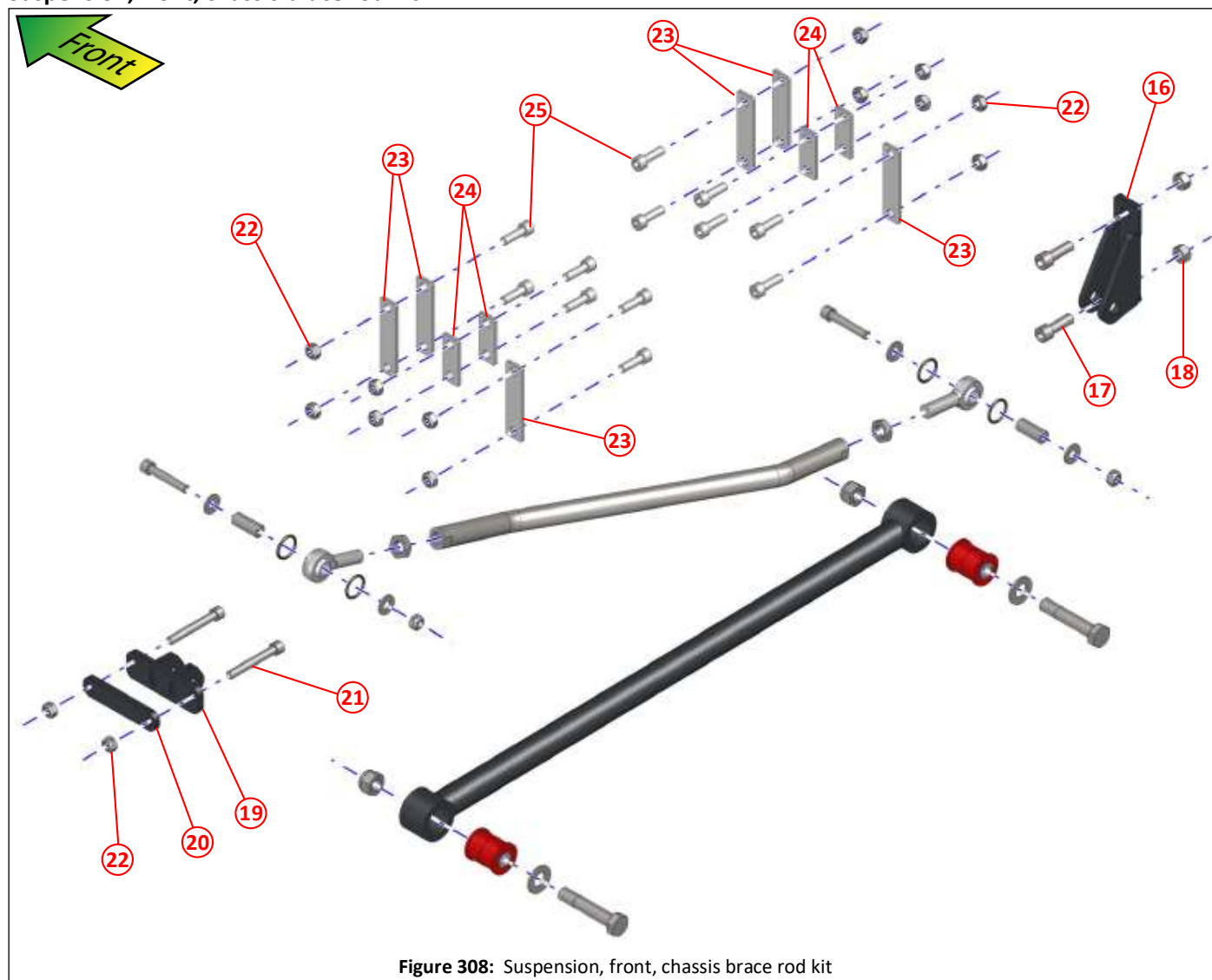
*.See page 363 for info if front chassis brace rod kit has been fitted or has poly bushed panhard rod.

Suspension, front, chassis brace rod kit



Item	Part No	Qty	Description
①	SCAKIT046602	1	Front chassis brace rod kit, complete
②	SCA046701	1	Panhard rod
③	SCA040977	2	Bush, poly
④	SCA044482	2	Special bolt, M16 x 80 (8.8 Grade)
⑤	SCA011135	2	Plain washer, M16
⑥	SCA011060	2	Nyloc nut, M16
⑦	SCA046597	1	Chassis brace rod assembly. Includes parts ⑧, ⑨ and ⑩
⑧	SCA046648	1	Chassis brace rod
⑨	SCA042319	2	Rod end, male, right hand thread
⑩	SCA000457	2	Half locknut, M16 x 2, right hand thread
⑪	SCA000509	2	Socket cap screw, M10 x 55 (Grade 12.9)
⑫	SCA011094	4	Plain washer, M10
⑬	SCA046601	2	Sleeve 16 x 10.3 x 37
⑭	SCA046846	4	O Ring $\varnothing 23.4$ ID x $\varnothing 3.53$ section
⑮	SCA000500	2	Stover nut, M10 (Grade 12)

Suspension, front, chassis brace rod kit



Item	Part No	Qty	Description	
16	SCA046600	1	Bracket, front chassis brace, right hand side	
17	SCA000511	1	Socket cap screw, M12 x 35, (Grade 12.9)	
18	SCA000510	2	Stover nut, M12, (Grade 12)	
19	SCA044482	1	Bracket, front chassis brace, left hand side	
20	SCA046559	1	Clamp, front chassis brace left hand side bracket	
21	SCA000508	2	Socket cap screw, M10 x 70 (Grade 12.9)	
22	SCA000500	14	Stover nut, M10 (Grade 12)	
23	SCA046582	6	Spreader plate (80mm centres)	
24	SCA046583	2	Spreader plate (42mm centres)	
25	SCA000503	12	Socket cap screw, M10 x 30, (Grade 12.9)	

Front axle

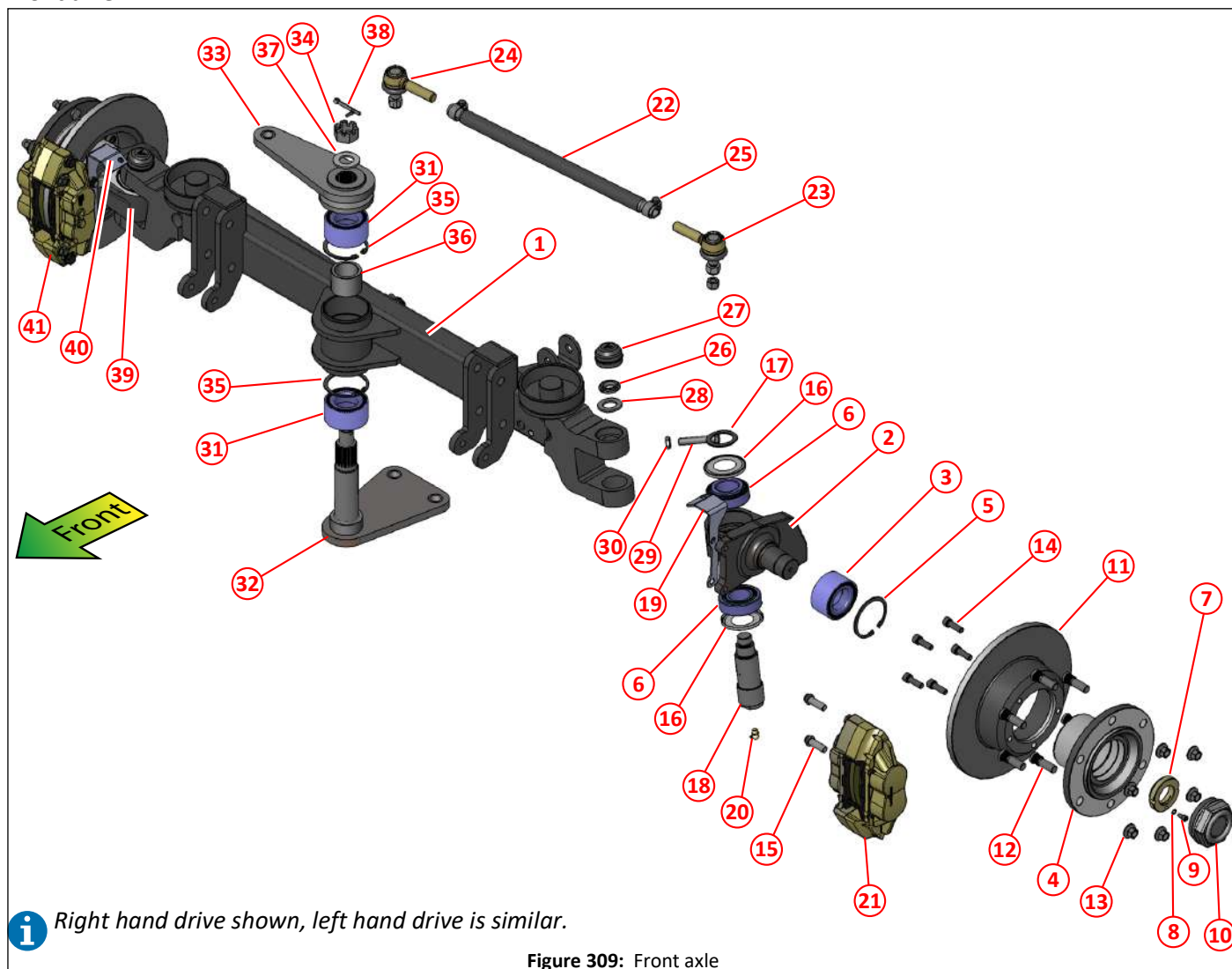


Figure 309: Front axle

Item	Part No	Qty	Description	
①	044933	1	Beam axle	
②	044947	1	Stub axle, left hand	
③	044934	2	Bearing 42 x 76 x 39	
④	044946	2	Wheel hub	
⑤	044935	2	Circlip $\varnothing 76$, internal	
⑥	044951	4	Bearing 40 x 75	
⑦	044936	2	Adjuster nut	
⑧	044937	2	Spring washer M6	
⑨	044938	2	Cap screw M6 x 12	
⑩	044939	2	Hub cap $\varnothing 80$	
⑪	044940	2	Brake disc/rotor	
⑫	044941	12	Wheel stud M14 x 1.5	
⑬	043671	12	Wheel nut M14 x 1.5	
⑭	044943	10	Socket cap screw M10 x 30	
⑮	045282	4	Caliper bolt	
⑯	044952	4	Bearing cover, AV 33108	
⑰	044948	2	Thrust washer	
⑱	044949	2	Swivel pin	
⑲	044950	1	Bracket, brake pipe, left hand	

Item	Part No	Qty	Description	
20	044953	2	Grease nipple, angled	
21	044944	1	Brake caliper, left hand	
22	044956	2	Tube, track rod	
23	044957	2	Ball joint	
24	044958	2	Ball joint	
25	044959	4	Clamp	
26	044932	4	Self locking nut M25 x 1.5	
27	044931	2	Cap	
28	044963	2	Swivel pin spacer	
29	044968	2	Bolt, bump stop	
30	044954	2	Lock nut M12	
31	044960	2	Bearing 42 x 76 x 39	
32	044961	1	Bell crank	
33	044992	1	Link arm, right hand drive	
33	044962	1	Link arm, left hand drive	
34	044964	1	1" x 20 TPI Whitworth slotted nut	
35	044965	2	Circlip ø76, internal	
36	044966	1	Spacer	
37	044955	1	Washer M25	
38	044967	1	Split pin	
39	044969	1	Stub axle, right hand	
40	044971	1	Bracket, brake pipe, right hand	
41	044970	1	Brake caliper, right hand	
NI	044432	1	Front axle assembly, right hand drive	358
NI	036078	1	Front axle assembly, left hand drive	358

Suspension, rear, general arrangement

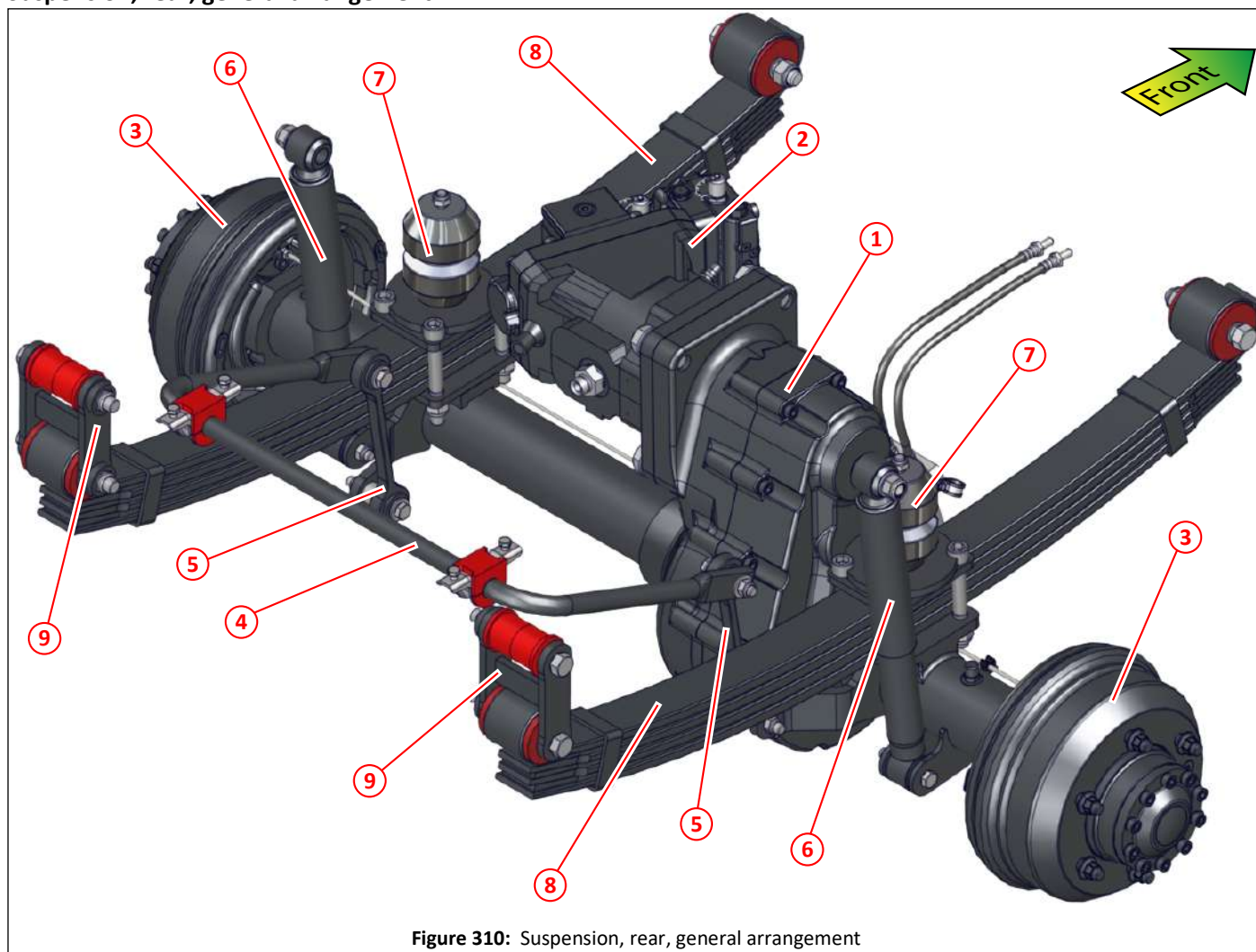


Figure 310: Suspension, rear, general arrangement

Item	Part No	Qty	Description	
①	037281	1	Rear axle complete	330
②	038661	1	Motor, hydraulic, drive, SAUER 51V110	
③	044908	2	Brake drum	330
④	027669	1	Stabiliser bar, rear	368
⑤	027231	2	Link, stabiliser bar	368
⑥	100035	2	Shock absorber	369
⑦	013755	2	Rubber Aeon hollow spring, rear suspension bump stop	352, 369
⑧	044521	2	Spring, rear	370
⑨	037224	2	Shackle, rear suspension	370

Suspension, rear, stabiliser bar

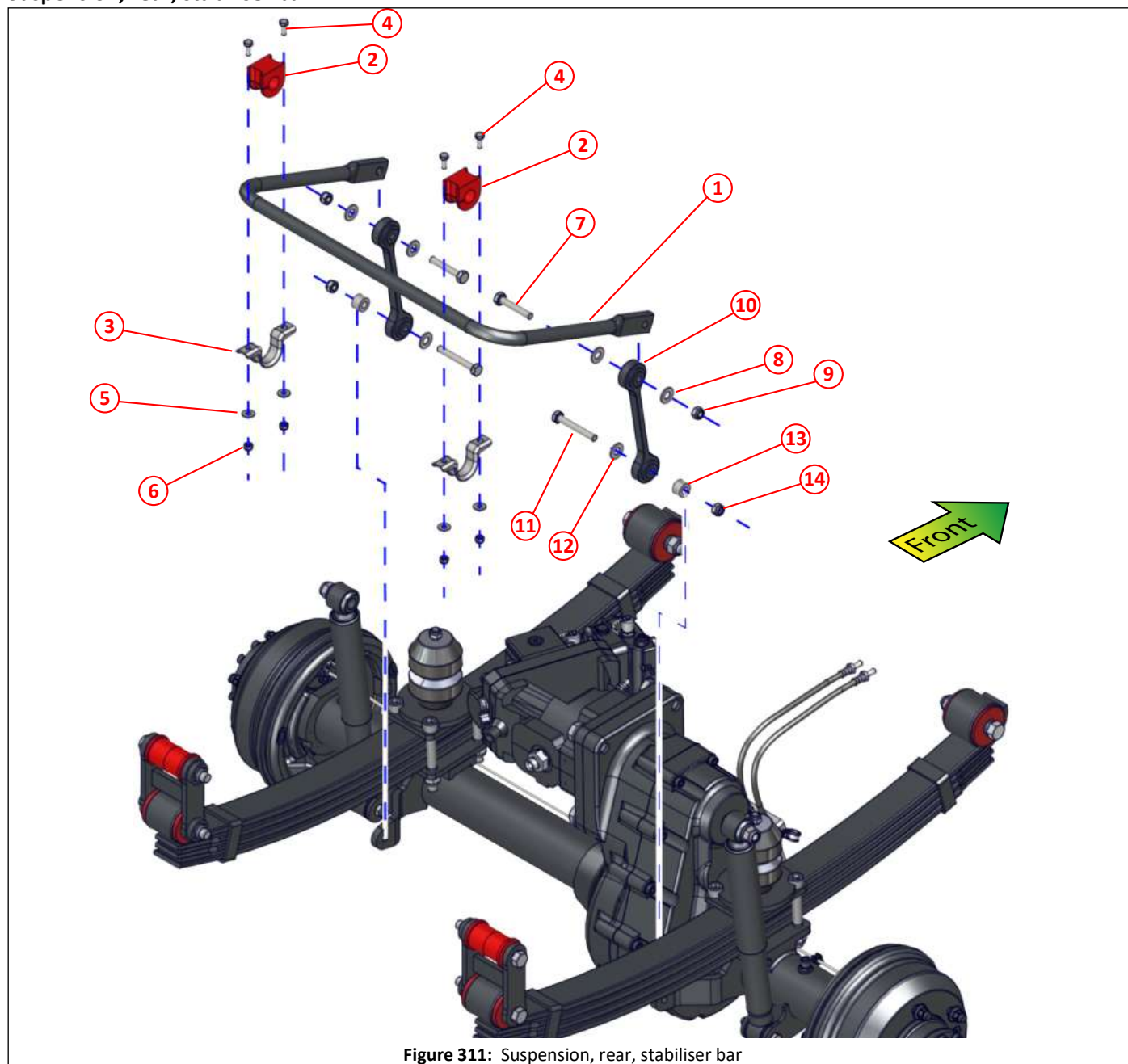


Figure 311: Suspension, rear, stabiliser bar

Item	Part No	Qty	Description	
①	027669	1	Stabiliser bar, rear	367
②	044581	2	Bush, PU, stabiliser bar	
③	027671	2	Clamp, stabiliser bar	
④	011010	4	Set screw M8 x 20	
⑤	011092	4	Plain washer M8	
⑥	011073	4	M8 Nyloc nut	
⑦	011055	2	Bolt M12 x 65	
⑧	011096	4	Plain washer M12	
⑨	011077	2	M12 Nyloc nut	
⑩	037231	2	Link, stabiliser bar	367
⑪	000110	2	Bolt M12 x 80	
⑫	011096	2	Plain washer M12	
⑬	042994	2	Spacer ø25 X ø12.5 x 16	
⑭	011077	2	M12 Nyloc nut	

Suspension, rear, shock absorbers and bump stops

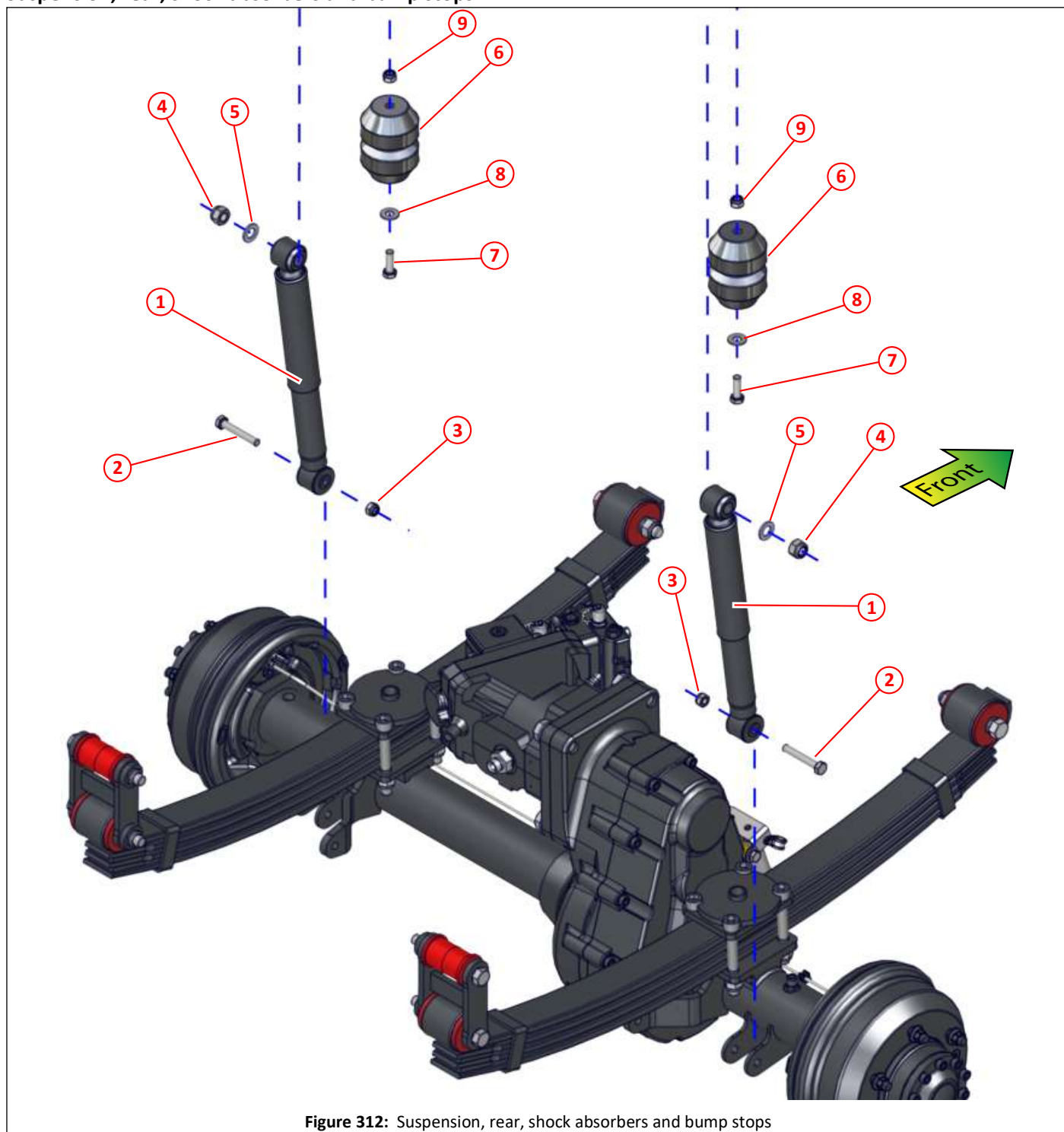


Figure 312: Suspension, rear, shock absorbers and bump stops

Item	Part No	Qty	Description	
①	100035	2	Shock absorber	367
②	011056	2	Bolt M12 x 70	
③	011077	2	M12 Nyloc nut	
④	011060	2	M16 Nyloc nut	
⑤	011135	2	Plain washer M16	
⑥	013755	2	Rubber Aeon hollow spring, rear suspension bump stop	352, 367
⑦	011053	2	Set screw M12 x 35	
⑧	011096	2	Plain washer M12	
⑨	011077	2	M12 Nyloc nut	

Suspension, rear, springs

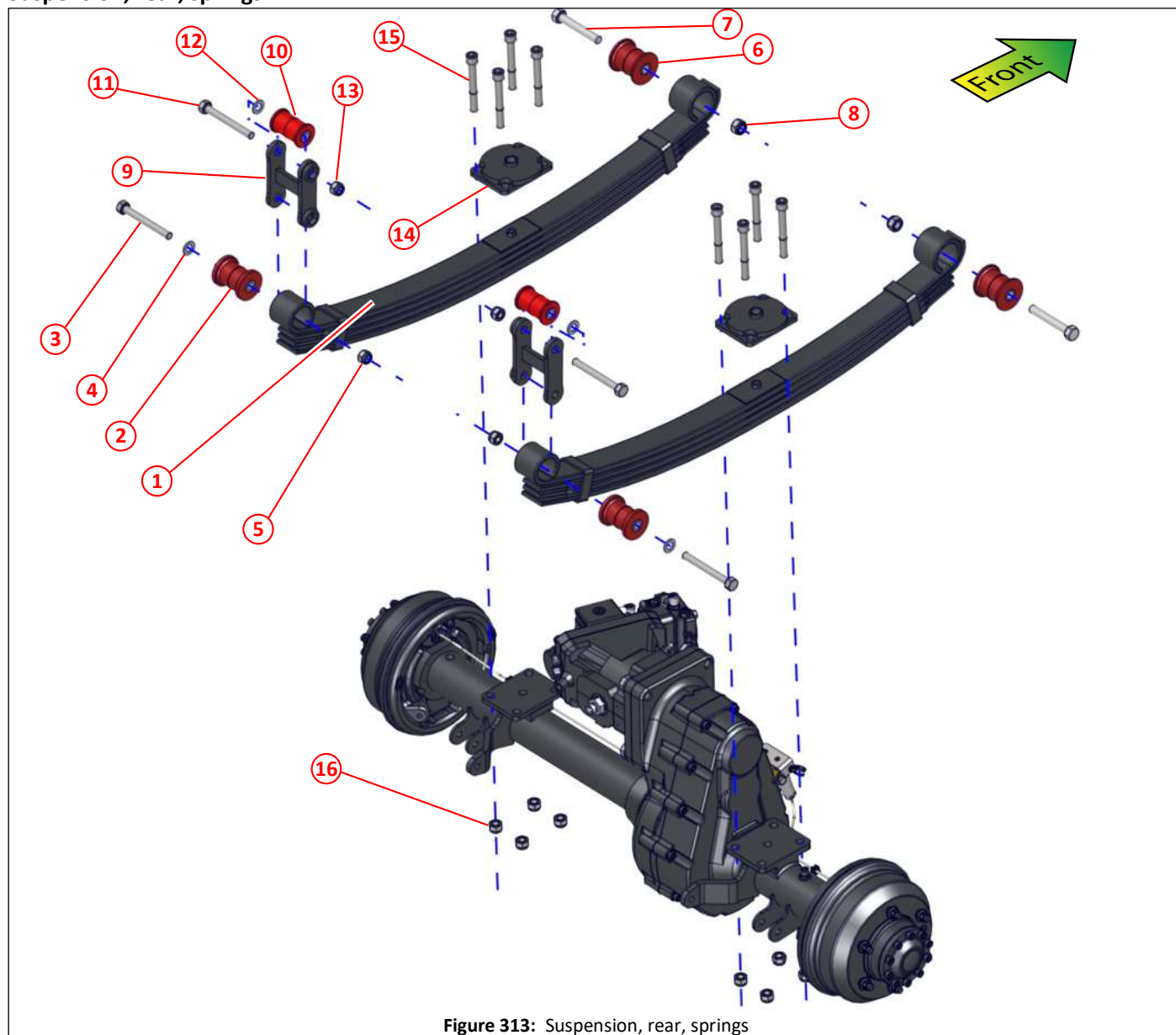


Figure 313: Suspension, rear, springs

Item	Part No	Qty	Description	
①	044521	2	Leaf spring, rear	367
②	044506	2	Bush kit PU, leaf spring, rear eye	
③	000464	2	Bolt M16 x 130	
④	011135	2	Plain washer M16	
⑤	011060	2	M16 Nyloc nut	
⑥	044505	2	Bush kit PU, leaf spring, front eye	
⑦	000463	2	Bolt M18 x 110	
⑧	000482	2	M18 Nyloc nut	
⑨	037224	2	Shackle, rear suspension	367
⑩	037222	2	Bush, shackle, rear suspension	
⑪	000464	2	Bolt M16 x 130	
⑫	011135	2	Plain washer M16	
⑬	011060	2	M16 Nyloc nut	
⑭	037254	2	Clamp pad, leaf spring, rear	
⑮	000488	8	Socket cap screw M16 x 120	
⑯	011060	8	M16 Nyloc nut	

Wheel and tyre

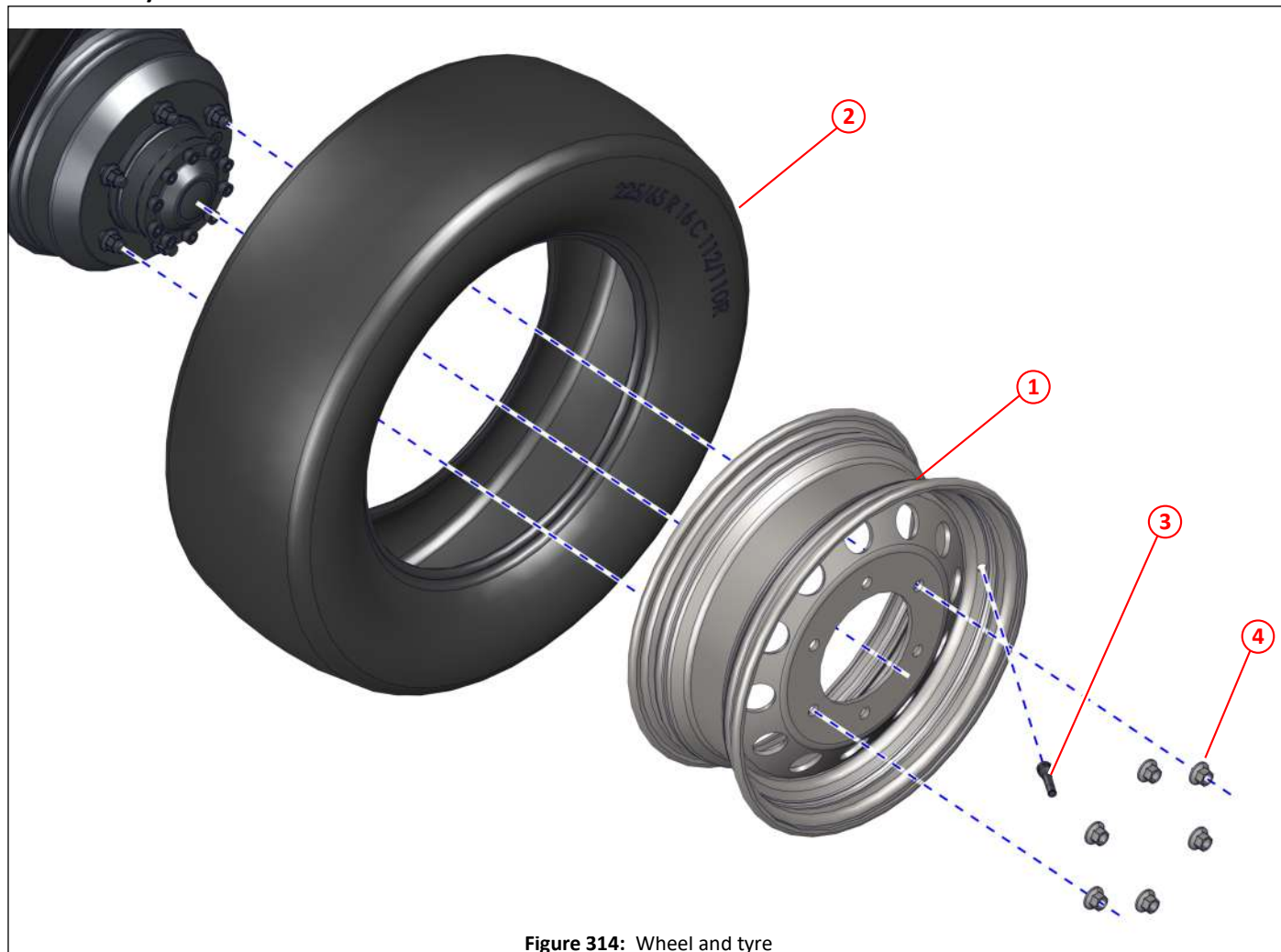
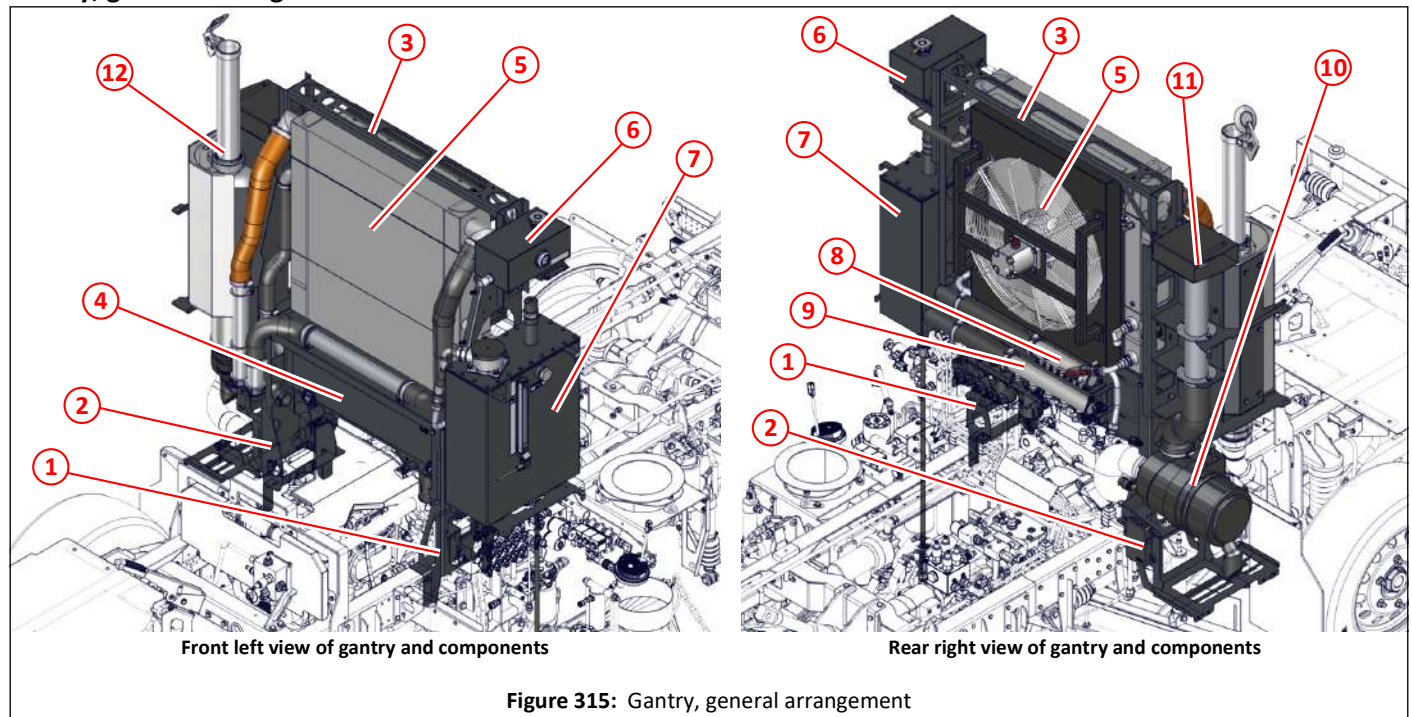


Figure 314: Wheel and tyre

Item	Part No	Qty	Description	
①	037199	1	Wheel 6J x 16	
②	038982	1	Tyre	
③	031137	1	Valve	
④	043671	6	Wheel nut, M14 x 1.5	
NI	036720	1	Wheel, tyre and valve complete assembly, includes items ①, ② and ③	

Gantry, general arrangement



Item	Part No	Qty	Description	
①	041910	1	Side plate, left hand, gantry	380
②	041911	1	Side plate, right hand, gantry	380
③	041922	1	Top brace, gantry	379
④	041055	1	Control cabinet assembly	381
⑤	041663	1	Cooler assembly	
⑥	041946	1	Expansion tank assembly	376
⑦	041958	1	Hydraulic oil tank assembly	378
⑧	041908	1	Manifold, tank, hydraulic oil feed	190, 191, 194
⑨	025148	1	Manifold, tank, hydraulic oil return	190, 191, 194
⑩	025279	1	Air cleaner assembly	374
⑪			Air stack	374
⑫			Exhaust stack	375

Gantry mounting

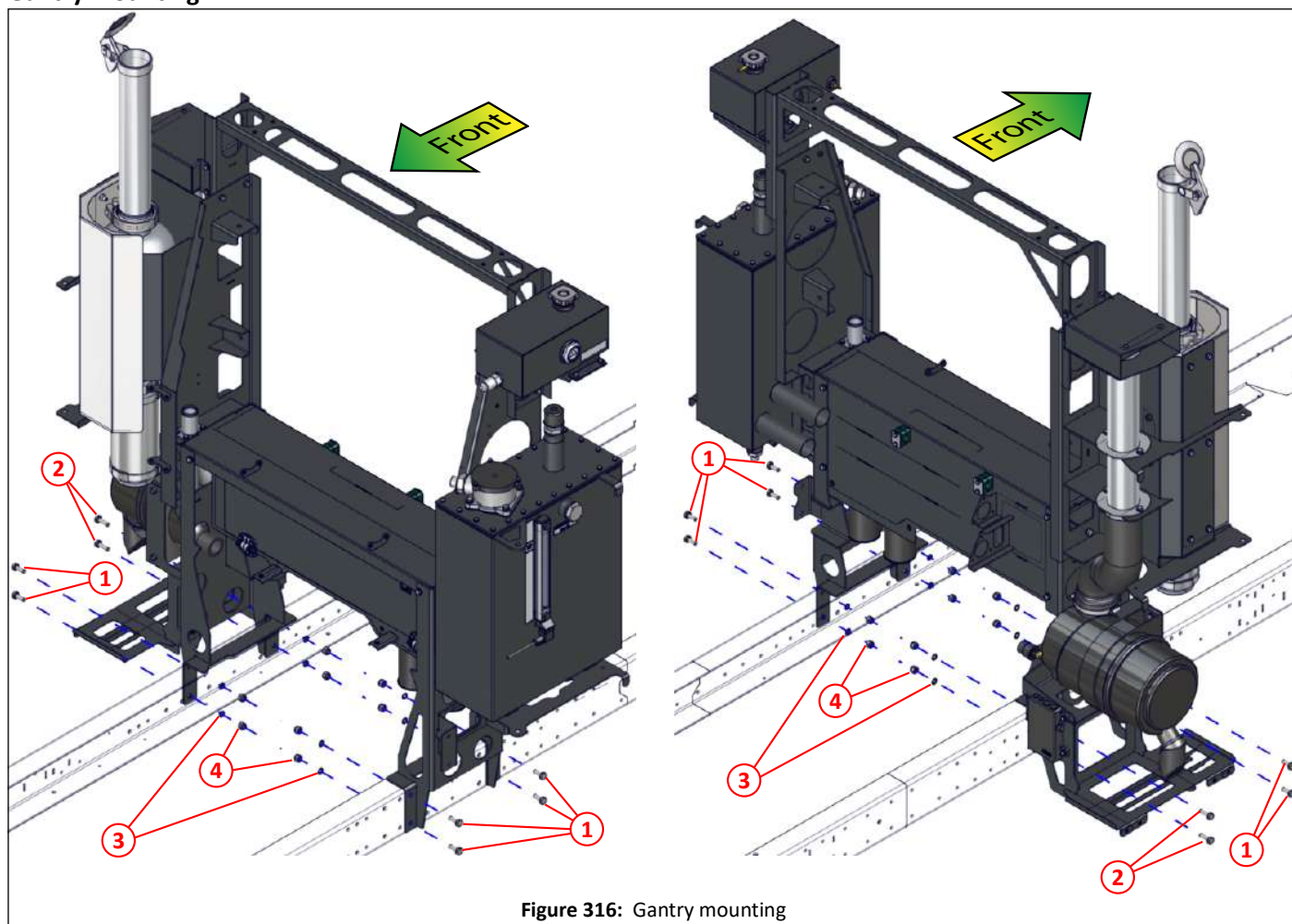


Figure 316: Gantry mounting

Item	Part No	Qty	Description	
①	011031	6	Set screw M10 x 25	
②	011032	2	Set screw M10 x 30	
③	036454	8	Schnorr safety washer type VS10	
④	011075	8	M10 Nyloc nut	

Gantry, air cleaner stack, mounting

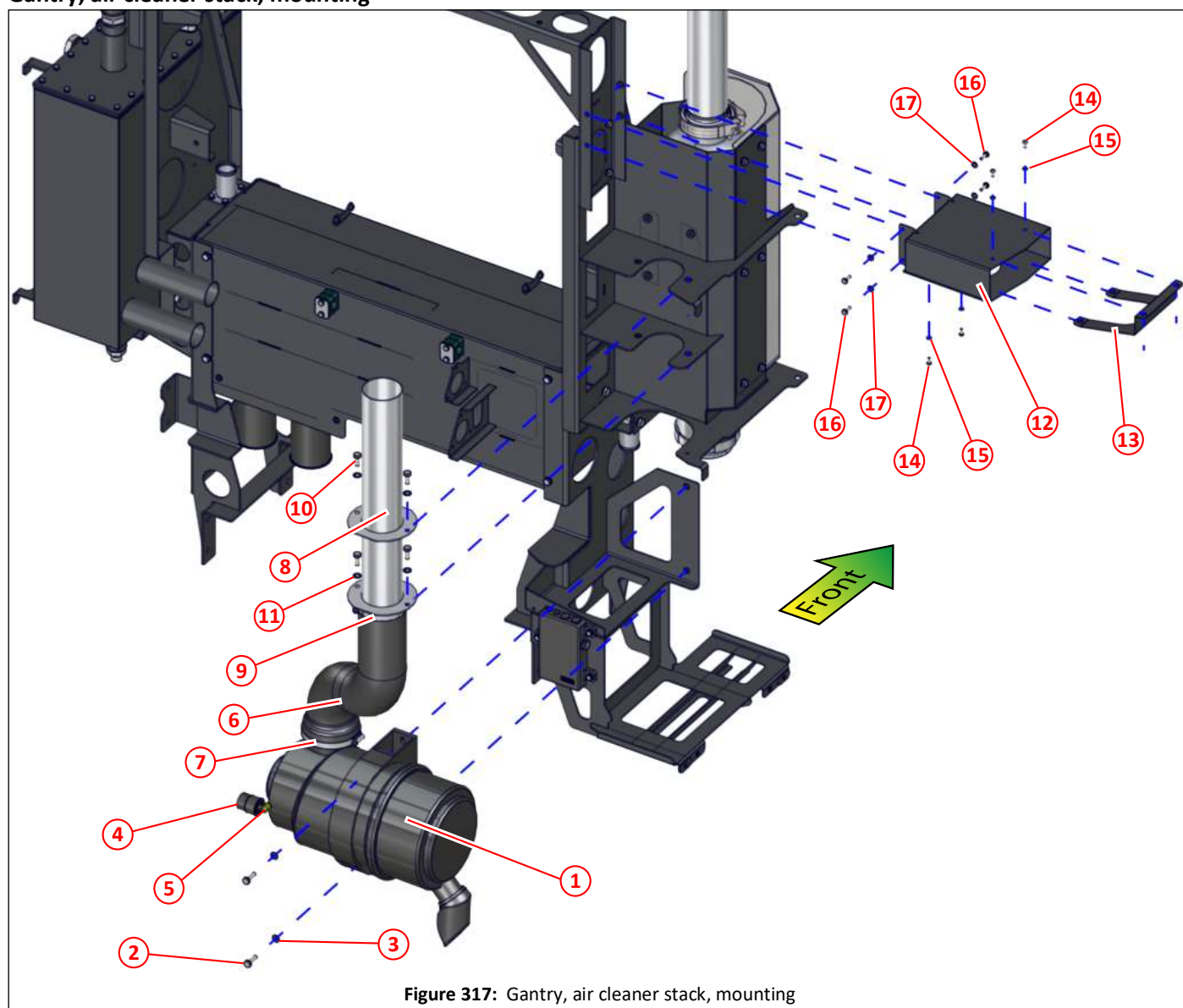


Figure 317: Gantry, air cleaner stack, mounting

Item	Part No	Qty	Description	
①	025279	1	Air cleaner assembly	
②	011011	2	Set screw M8 x 25	
③	000265	2	Spring washer M8, stainless steel	
④	042136	1	Sender, filter blocked - 5.0kPa	
⑤	034343	1	Elbow, filter blocked sender	
⑥	041888	1	Air stack hose	
⑦	003003	1	Work drive clip No 5 [90 - 120]	
⑧	041898	1	Air stack	
⑨	012931	1	Work drive clip No 4 [70 - 90]	
⑩	011010	4	Set screw M8 x 20	
⑪	011093	4	Spring washer M8	
⑫	042375	1	Duct, air intake	
⑬	043868	1	Splash guard, air intake duct	
⑭	000476	4	Socket button head screw M5 x 12, zinc plated	
⑮	000410	4	Spring washer M5	
⑯	011001	4	Set screw M6 x 16	
⑰	011091	4	Spring washer M6	

Gantry, exhaust stack, mounting

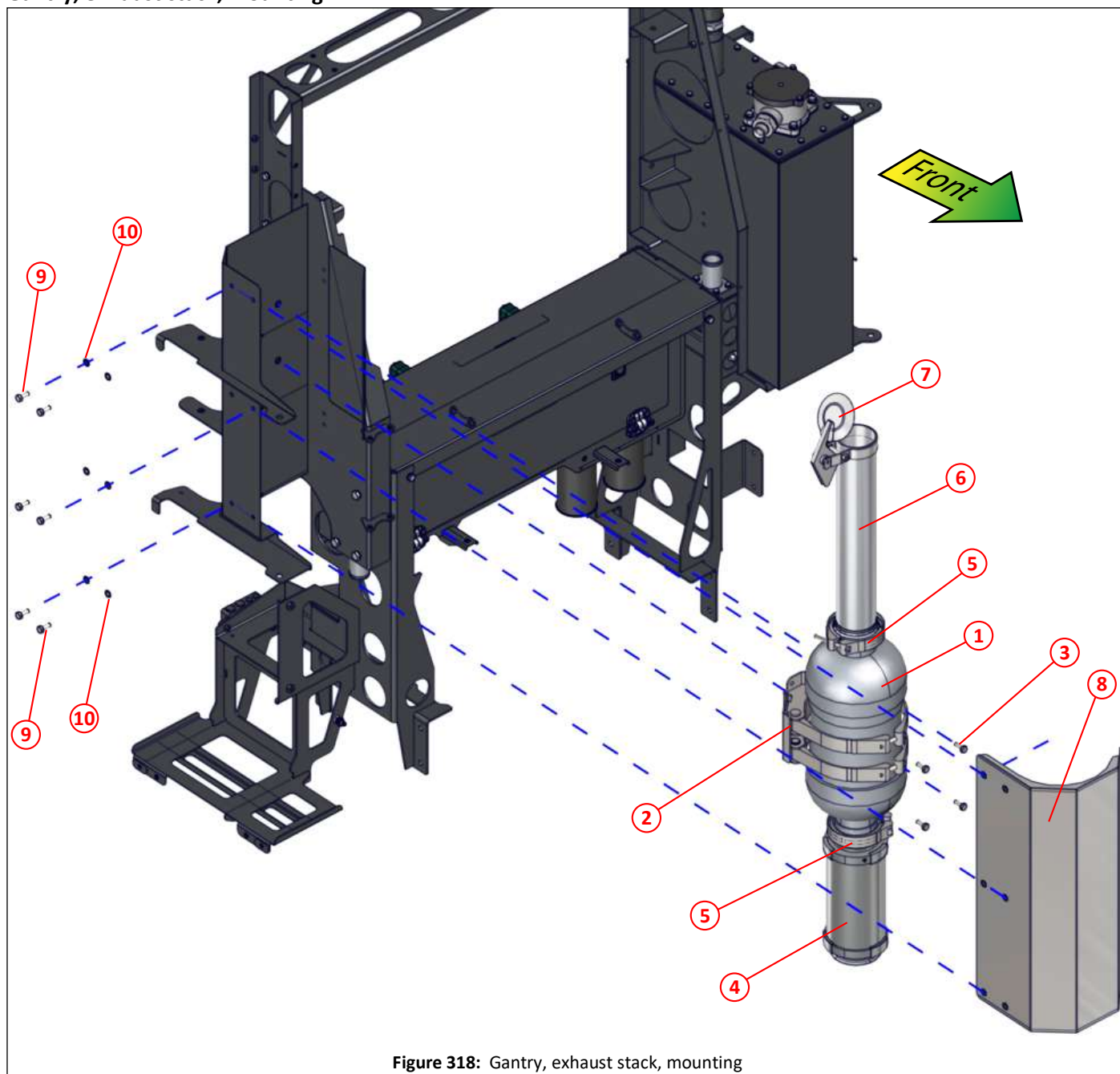
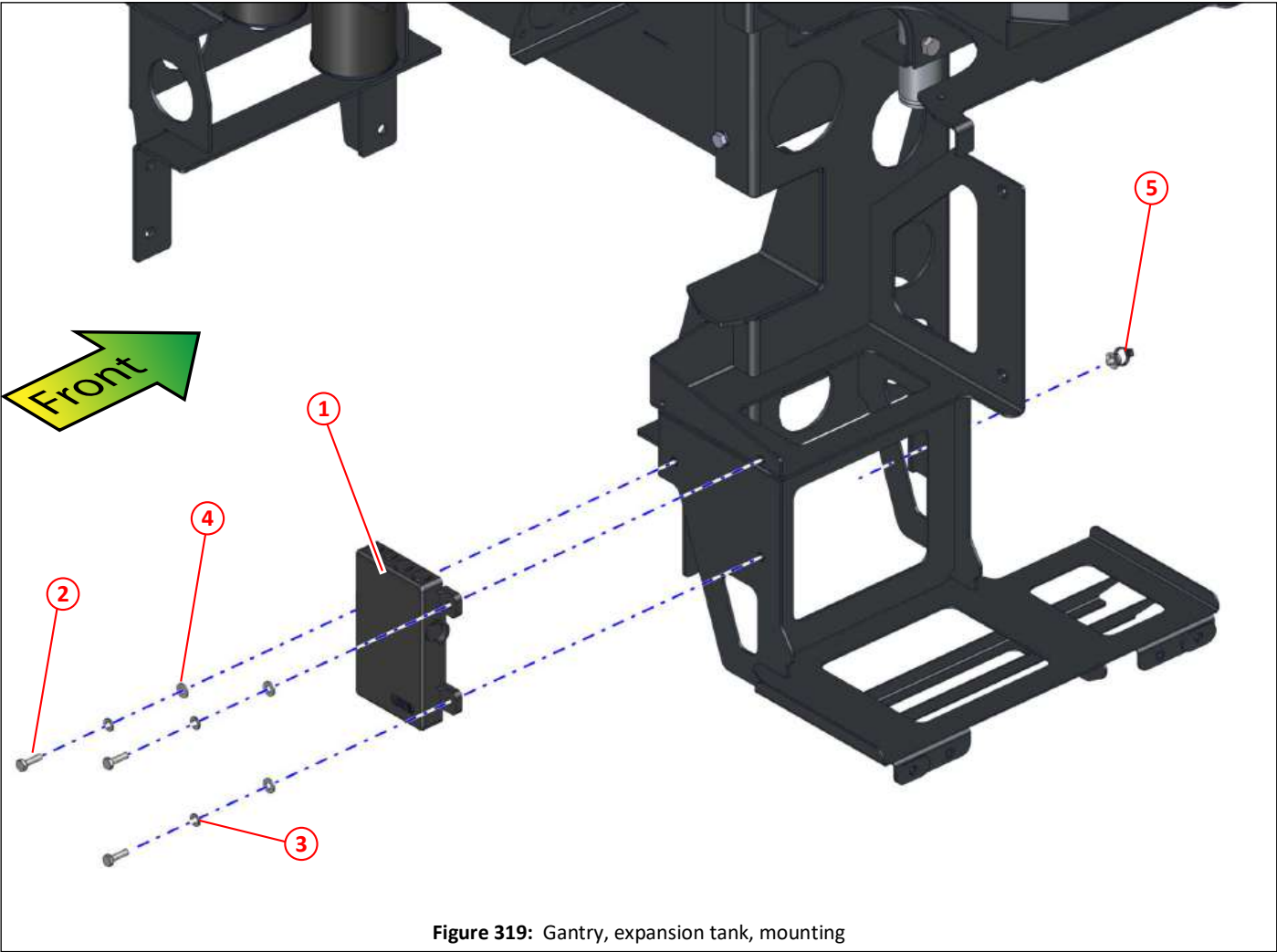


Figure 318: Gantry, exhaust stack, mounting

Item	Part No	Qty	Description	
①	041692	1	DOC unit, DEUTZ TCD 2.9 L4	
②	041695	1	Clamp, DOC unit	
③	011010	4	Set screw M8 x 20	
④	041693	1	Flexible union, exhaust	
⑤	041694	2	V clamp, exhaust	
⑥	041906	1	Exhaust stack	
⑦	041907	1	Rain cap, exhaust	
⑧	041977	1	Cover, exhaust	
⑨	000256	6	Stainless steel set screw M8 x 20	
⑩	000265	6	Spring washer M8, stainless steel	

Gantry, battery junction box, mounting



Item	Part No	Qty	Description	
①	043177	1	Battery distribution box	
②	011067	3	Set screw M6 x 20	
③	011091	3	Spring washer M6	
④	011090	3	Plain washer M6	
⑤	042052	1	Fir tree clip, with disc and cable tie	

Gantry, expansion tank, mounting

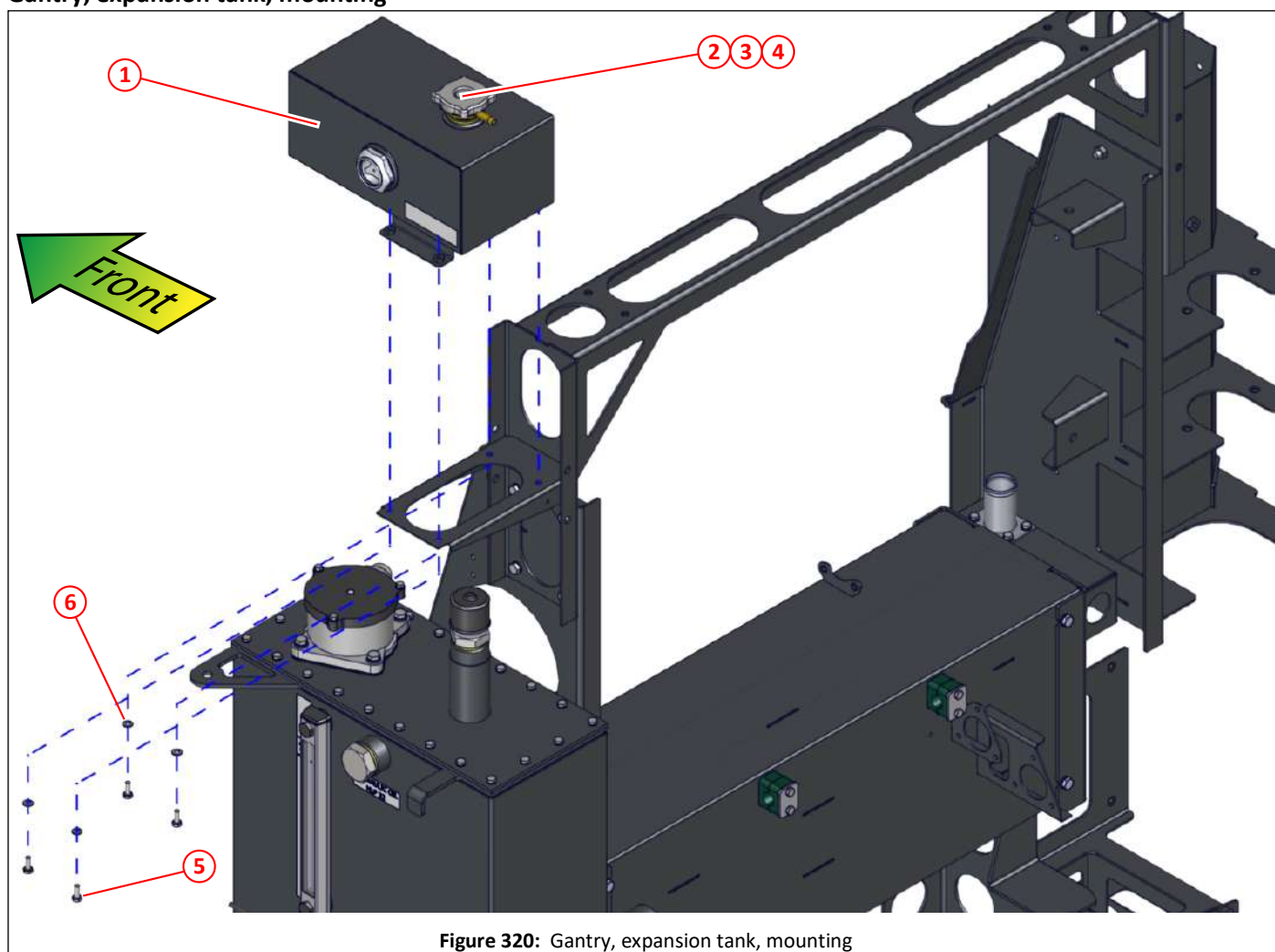
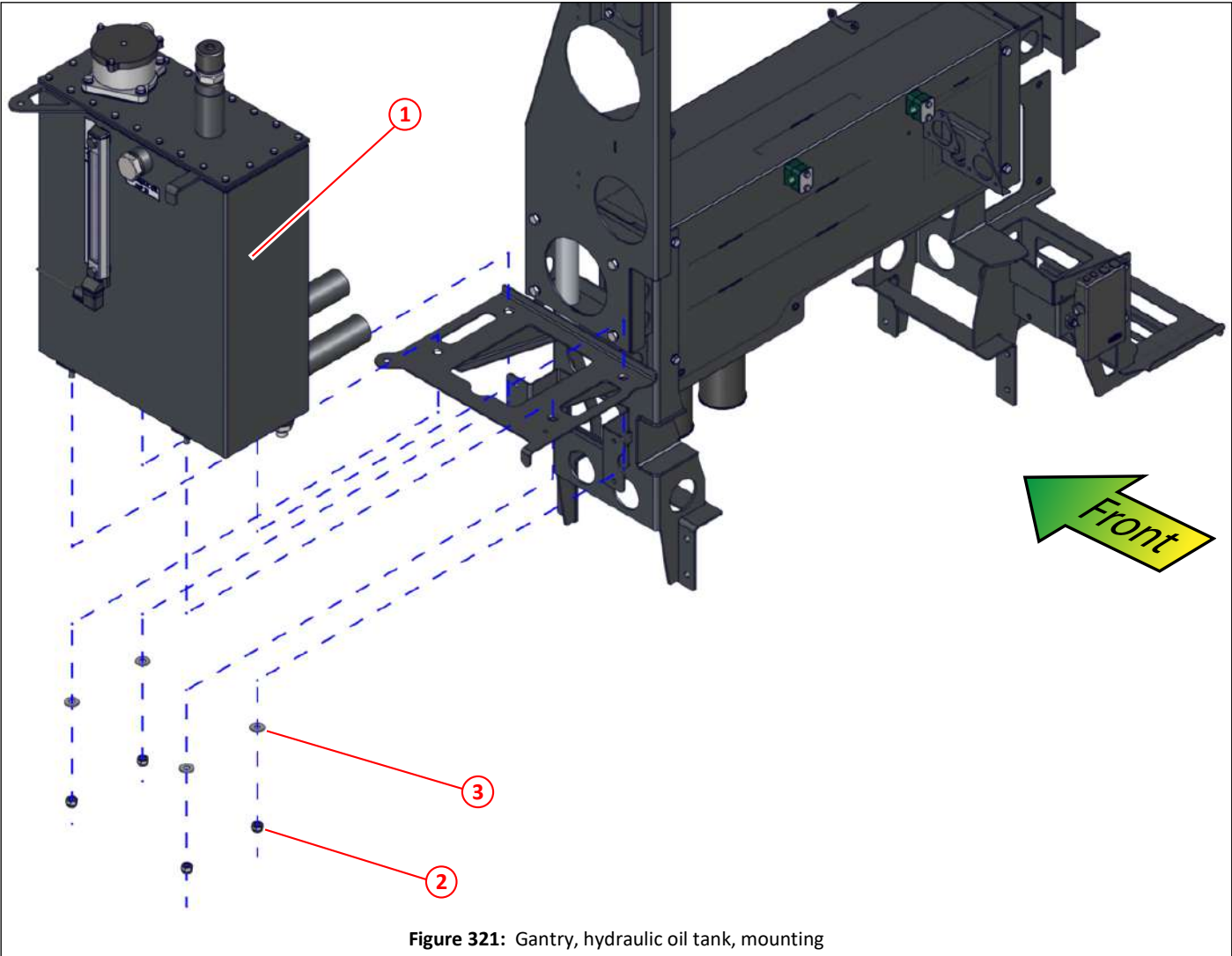


Figure 320: Gantry, expansion tank, mounting

Item	Part No	Qty	Description	
①	041936	1	Expansion tank	
②	041945	1	Cap, expansion tank filler neck	
③	041944	1	Filler neck, expansion tank	
④	011156	1	Dowty seal 1" BSP	
⑤	011001	4	Set screw M6 x 16	
⑥	011091	4	Spring washer M6	

Gantry, hydraulic oil tank, mounting



Item	Part No	Qty	Description	
①	041958	1	Oil tank assembly	
②	011075	4	M10 Nyloc nut	
③	011094	4	Plain washer M10	

Gantry, top and top sides, mounting

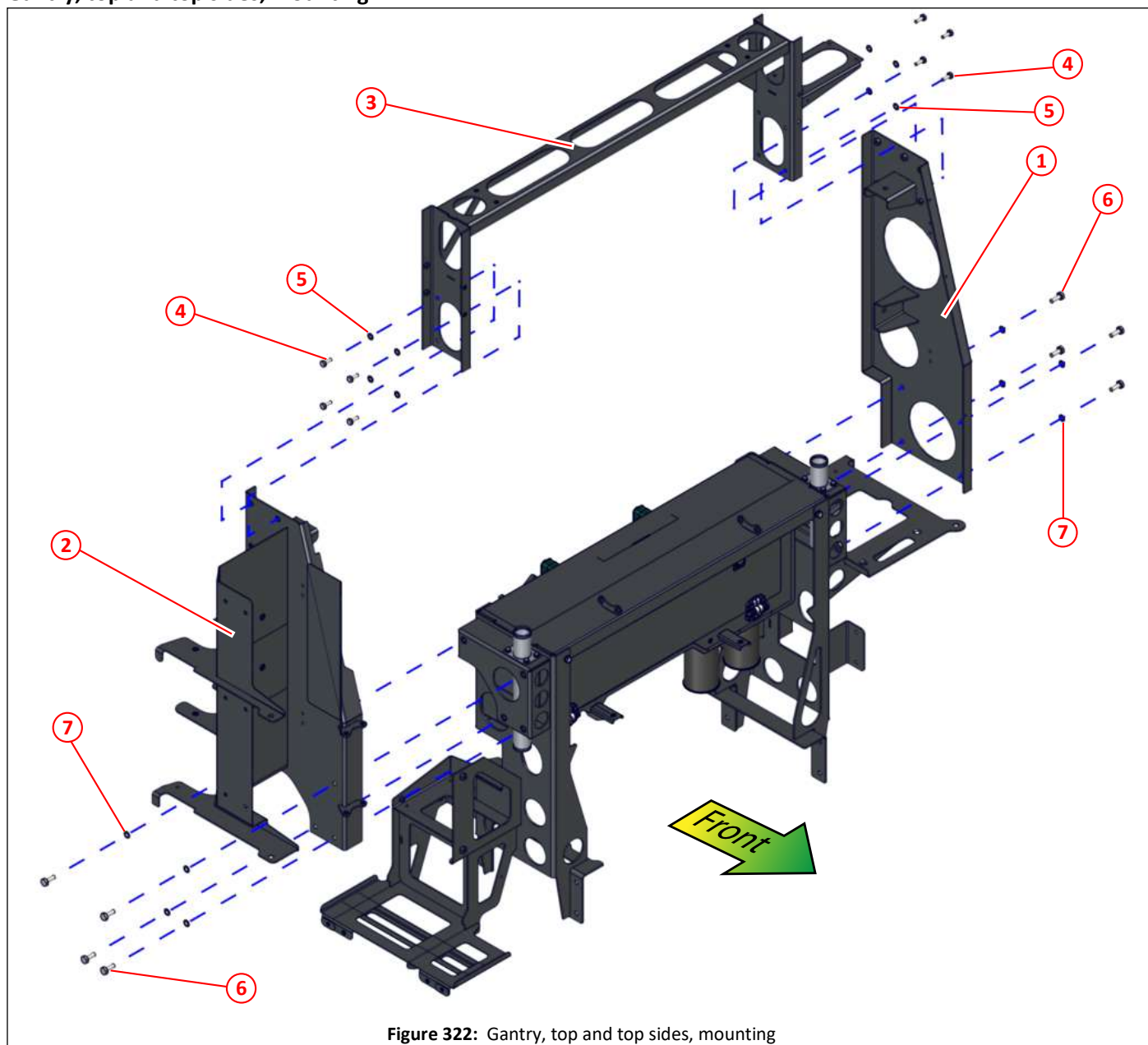


Figure 322: Gantry, top and top sides, mounting

Item	Part No	Qty	Description	
①	041920	1	Side plate, cooler, gantry left hand side	
②	045438	1	Side plate, cooler, gantry right hand side	
③	041922	1	Top brace, gantry	
④	011010	8	Set screw M8 x 20	
⑤	011093	8	Spring washer M8	
⑥	011031	8	Set screw M10 x 25	
⑦	036454	8	Schnorr safety washer type VS10	

Gantry, lower sides, mounting

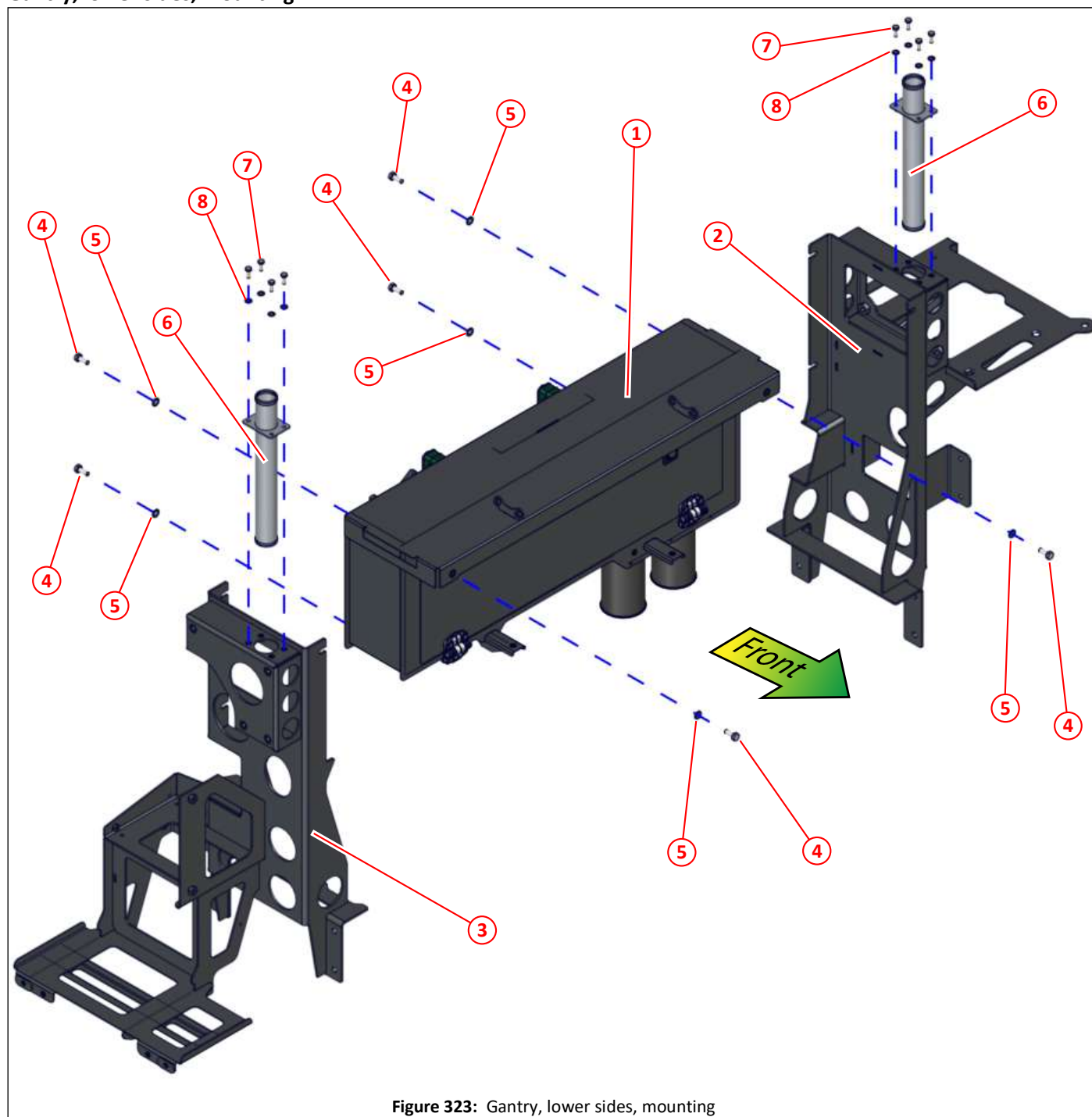


Figure 323: Gantry, lower sides, mounting

Item	Part No	Qty	Description	
①	041045	1	Control cabinet	381
②	041910	1	Side plate, lower, gantry left hand side	
③	041911	1	Side plate, lower, gantry right hand side	
④	000256	6	Set screw M8 x 20, stainless steel	
⑤	000265	6	Spring washer M8, stainless steel	
⑥	041871	2	Radiator pipe 2	312
⑦	011001	8	Set screw M6 x 16	
⑧	011091	8	Spring washer M6	

Gantry, control cabinet

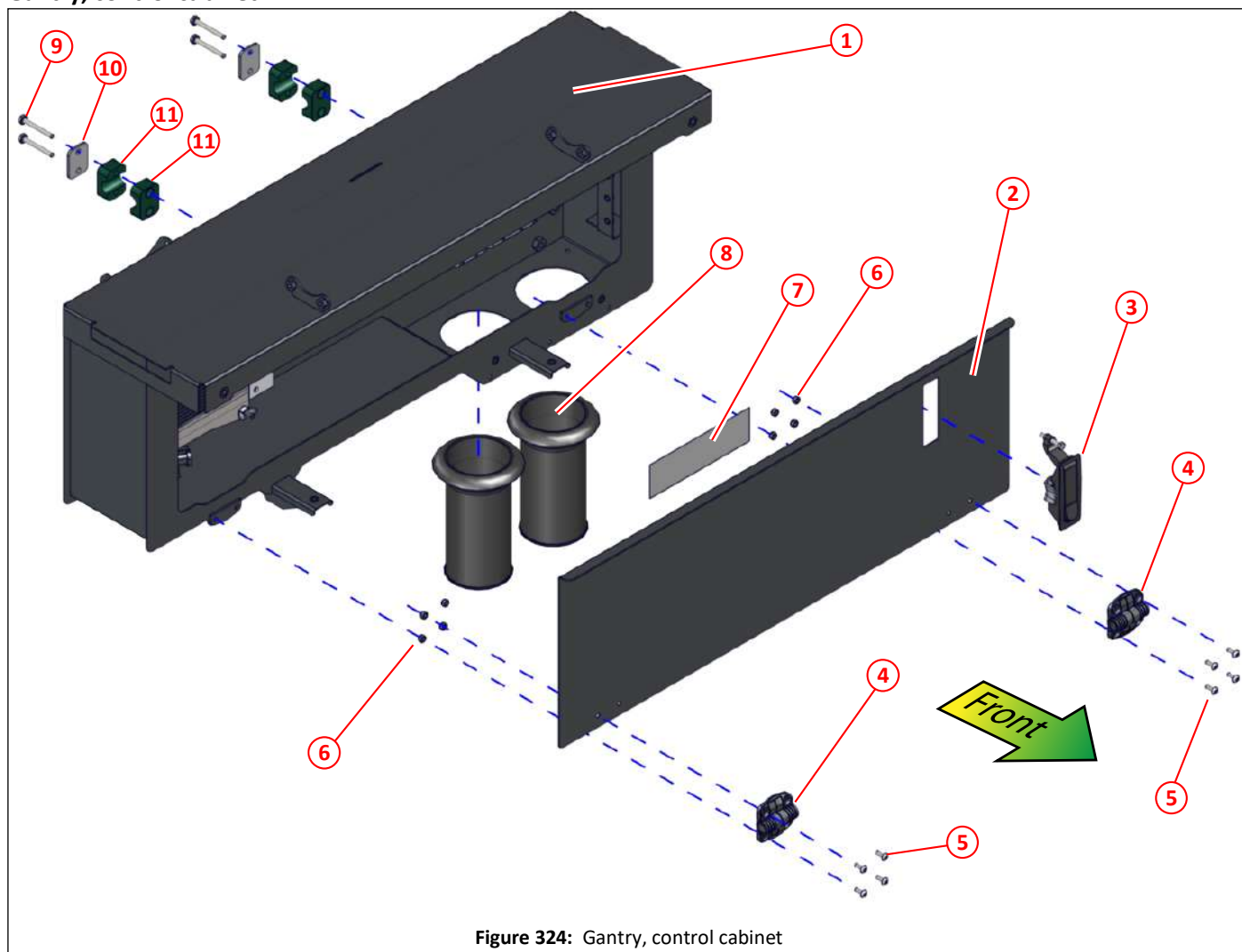


Figure 324: Gantry, control cabinet

Item	Part No	Qty	Description	
①	041045	1	Control cabinet	
②	041046	1	Door, control cabinet	
③	035662	1	Panel latch	
④	027193	2	Hinge, plastic	
⑤	000494	8	Socket dome head screw M5 x 12	
⑥	000155	8	M5 Nyloc nut	
⑦	043712	1	Label, gantry fuses	
⑧	034807	2	Panel sock	
⑨	000120	4	Set screw M6 x 45	
⑩	031317	2	Clamp plate	
⑪	042796	4	Pipe clamp block 18mm single	

i For control cabinet contents please see page 237.

Brakes

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Brakes, hydraulic, general layout, left hand drive

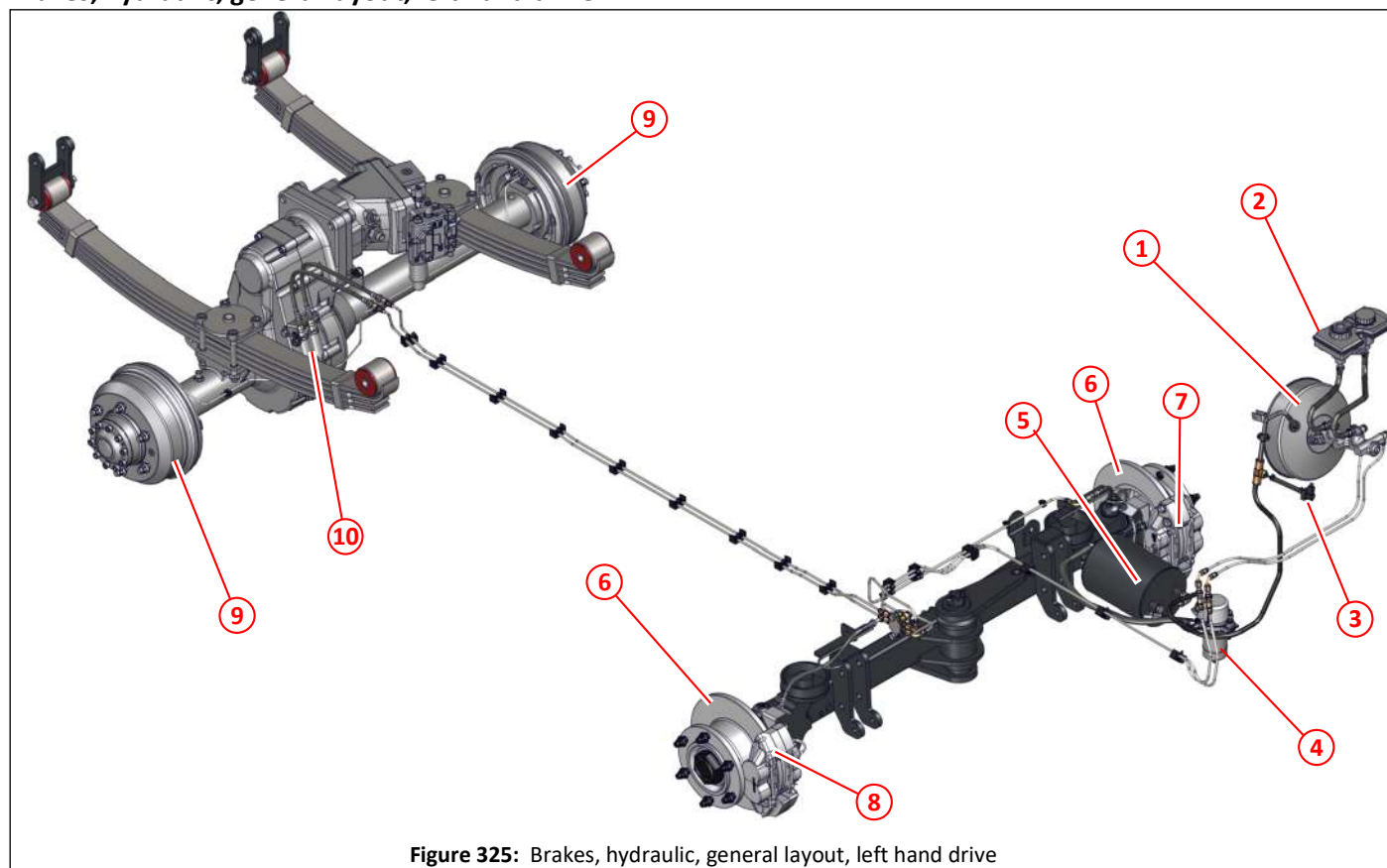
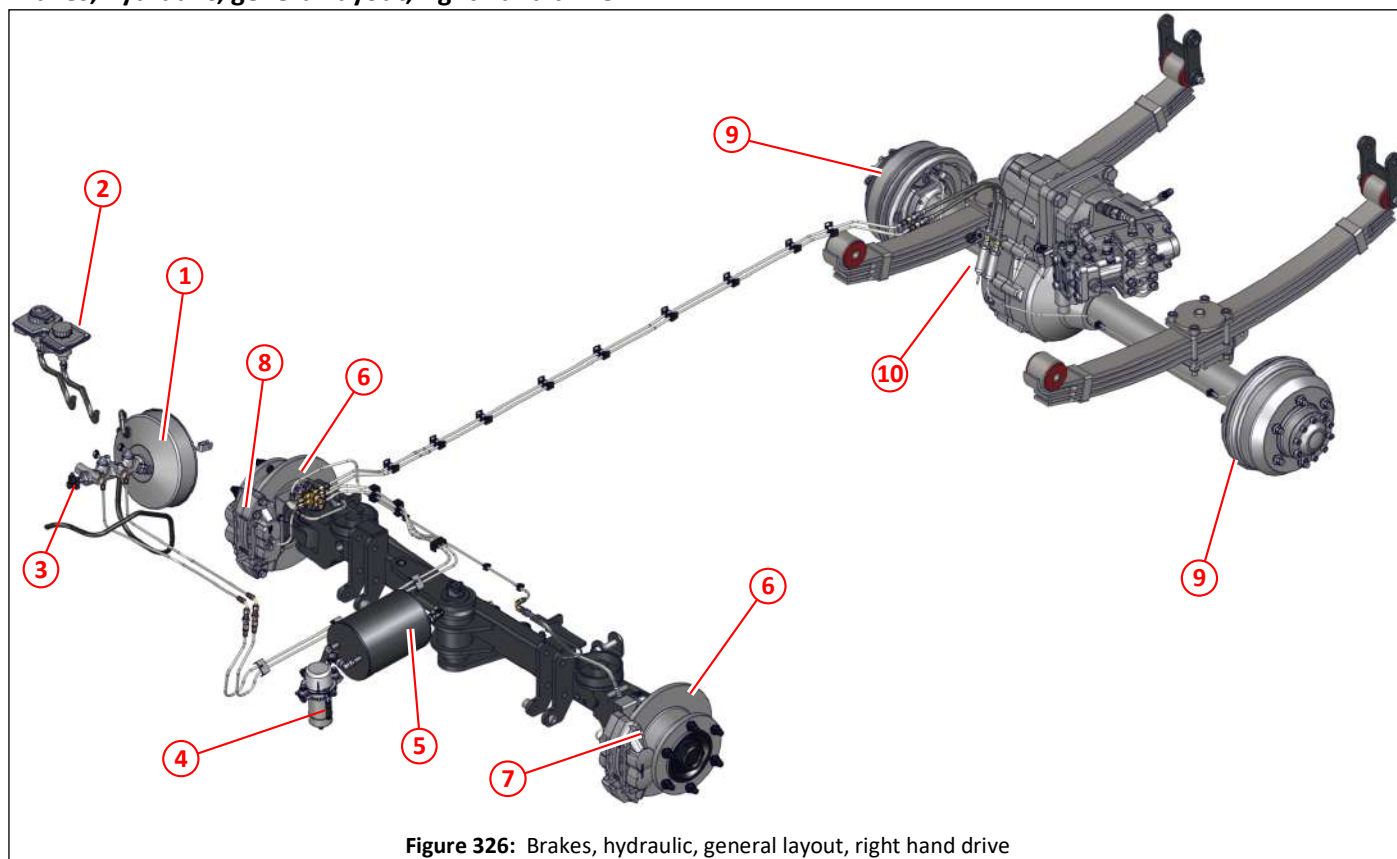


Figure 325: Brakes, hydraulic, general layout, left hand drive

Item	Part No	Qty	Description	
①	038586	1	Brake servo and master cylinder assembly	386, 387
②	038587	1	Brake fluid reservoir, remote mounted	387
③	042520	1	Pressure switch, vacuum	387,
④	042530	1	Vacuum pump	388
⑤	044281	1	Brake vacuum reservoir	388
⑥	044940	2	Brake disc/rotor	392, 393
⑦	044944	1	Brake caliper, left hand side	392
⑧	044970	1	Brake caliper, right hand side	393
⑨	044908	2	Rear brake drum	395, 396
⑩	042783	2	Pressure relief valve (PRV), brake	389, 390

Brakes, hydraulic, general layout, right hand drive

Figure 326: Brakes, hydraulic, general layout, right hand drive

Item	Part No	Qty	Description	
①	038586	1	Brake servo and master cylinder assembly	386, 387
②	038587	1	Brake fluid reservoir, remote mounted	387
③	042520	1	Pressure switch, vacuum	387
④	042530	1	Vacuum pump	388
⑤	044281	1	Brake vacuum reservoir	388
⑥	044940	2	Brake disc/rotor	392, 393
⑦	044944	1	Brake caliper, left hand side	392
⑧	044970	1	Brake caliper, right hand side	393
⑨	044908	2	Rear brake drum	395, 393
⑩	042783	2	Pressure relief valve (PRV), brake	389, 390

Brakes, pedal and servo assembly

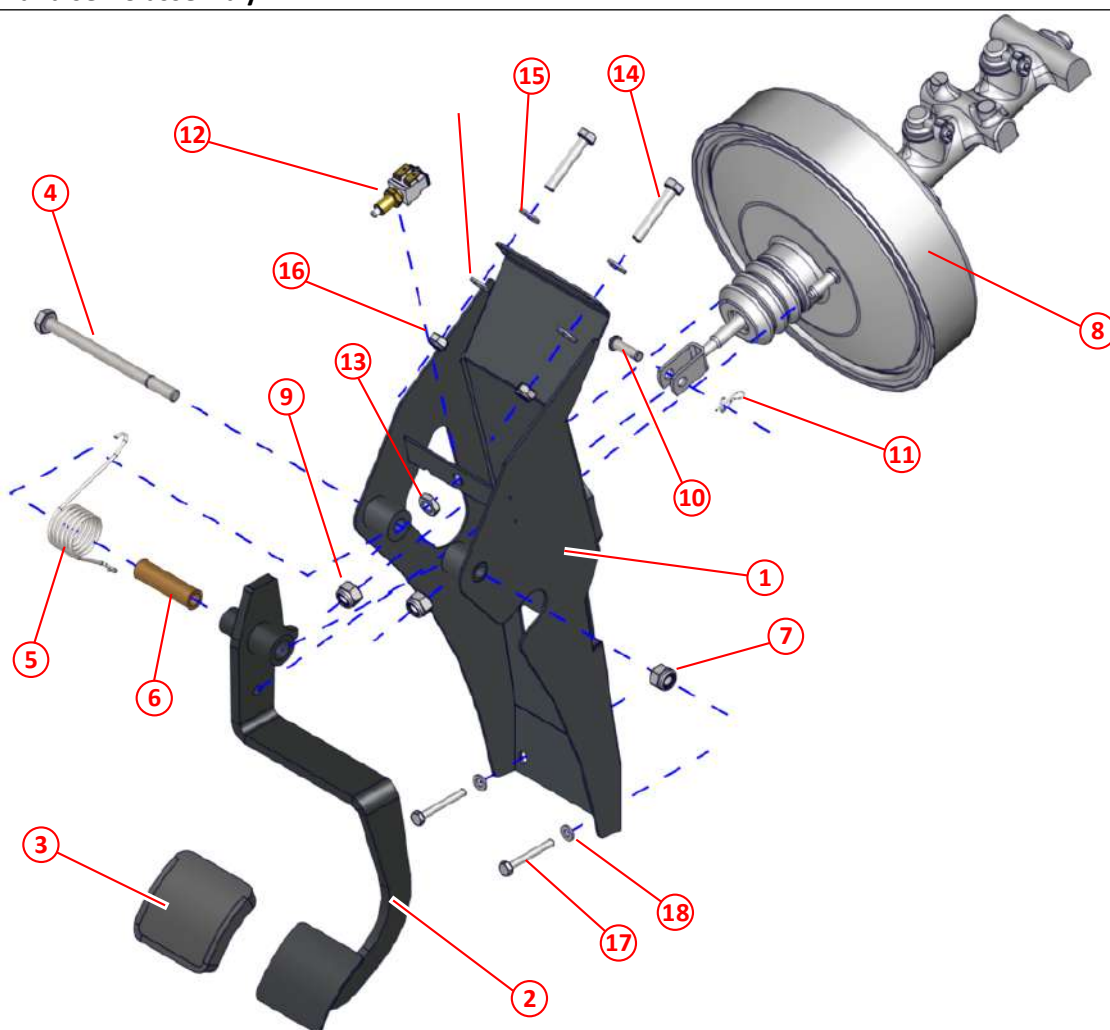
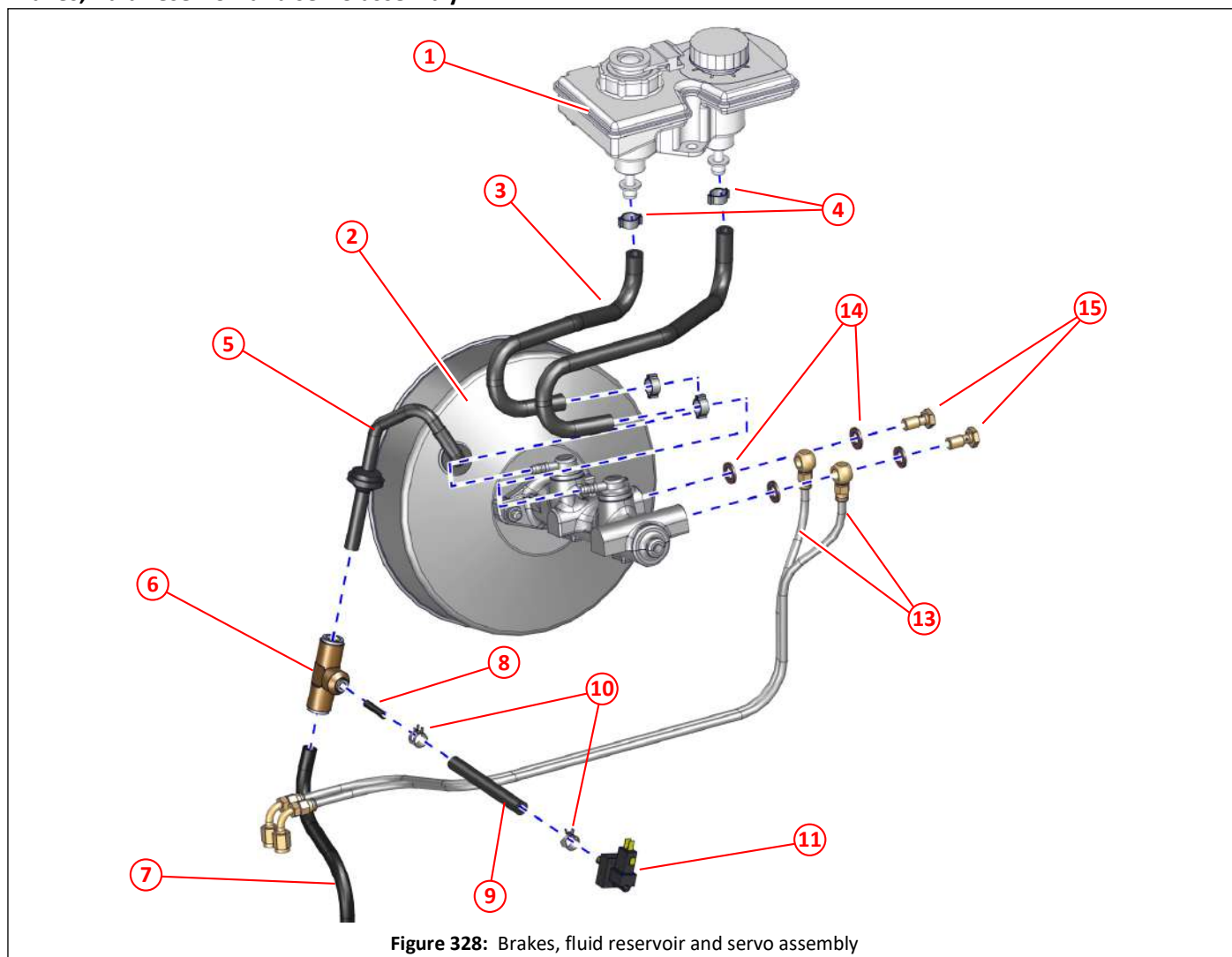


Figure 327: Brakes, pedal and servo assembly

Item	Part No	Qty	Description	
①	040259	1	Bracket, brake pedal	
②	042547	1	Brake pedal, right hand drive	
②	040261	1	Brake pedal, left hand drive	
③	042153	1	Pad, brake pedal	
④	000075	1	Bolt M10 x 130	
⑤	100044	1	Spring, brake pedal	
⑥	013421	1	Spacer, brass, 16 x 10 x 10.5 x 55	
⑦	011075	1	M10 Nyloc nut	
⑧	038586	1	Brake servo and master cylinder assembly	387
⑨	011075	2	M10 Nyloc nut	
⑩	100097	1	Clevis pin	
⑪	100108	1	Split pin	
⑫	032910	1	Switch, brake light	
⑬	000077	1	Lock nut M10 x 1	
⑭	011015	2	Set screw	
⑮	011092	4	Plain washer M8	
⑯	011073	2	M8 Nyloc nut	
⑰	000120	2	Set screw M6 x 45	
⑱	011090	2	Plain washer M6	

Brakes, fluid reservoir and servo assembly


Item	Part No	Qty	Description	
①	038587	1	Brake fluid reservoir, remote mounted	278,279,384
②	038586	1	Brake servo and master cylinder assembly	386
③	014784	As req	Hose brake $\varnothing 7.5 \times \varnothing 15$	389
④	010960	4	O-clip $\frac{1}{2}$ "	
⑤	046473	1	Pipe, servo vacuum	
⑥	021876	1	Tee 12 x 12 x 6, push in	
⑦	014407	As req	Pipe air, black nylon, $\varnothing 12$ OD x 1.5, to reservoir	388
⑧	014572	55mm	Pipe air, black nylon, $\varnothing 6$ OD x 1.5	
⑨	010957	80mm	Hose, rubber, $\varnothing 6$ ID	
⑩	044240	2	Hose band, 11.0 - 12.5	
⑪	042520	1	Pressure switch, vacuum	388
	043909	1	Pressure switch and vacuum pipe assembly, contains items ⑤, ⑥, ⑦, ⑧, ⑨, ⑩ and ⑪	
⑫	043524	2	Flexible brake line	389
⑬	043979	4	Washer, copper, M10 x $\frac{3}{8}$ " x 2	
⑭	043531	2	Banjo bolt, single take off, M10 x 1 x 20	

Brakes, vacuum pump and reservoir

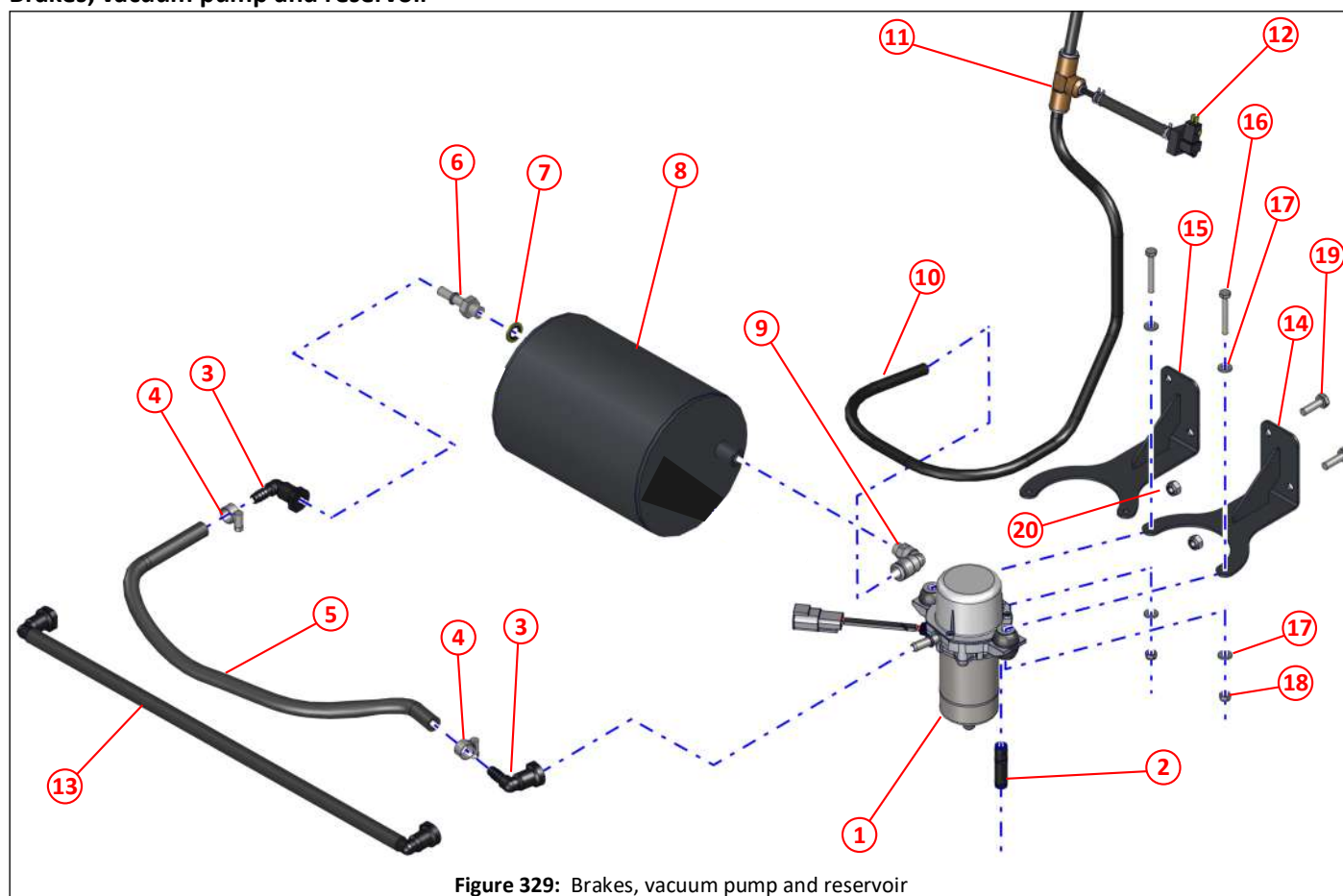
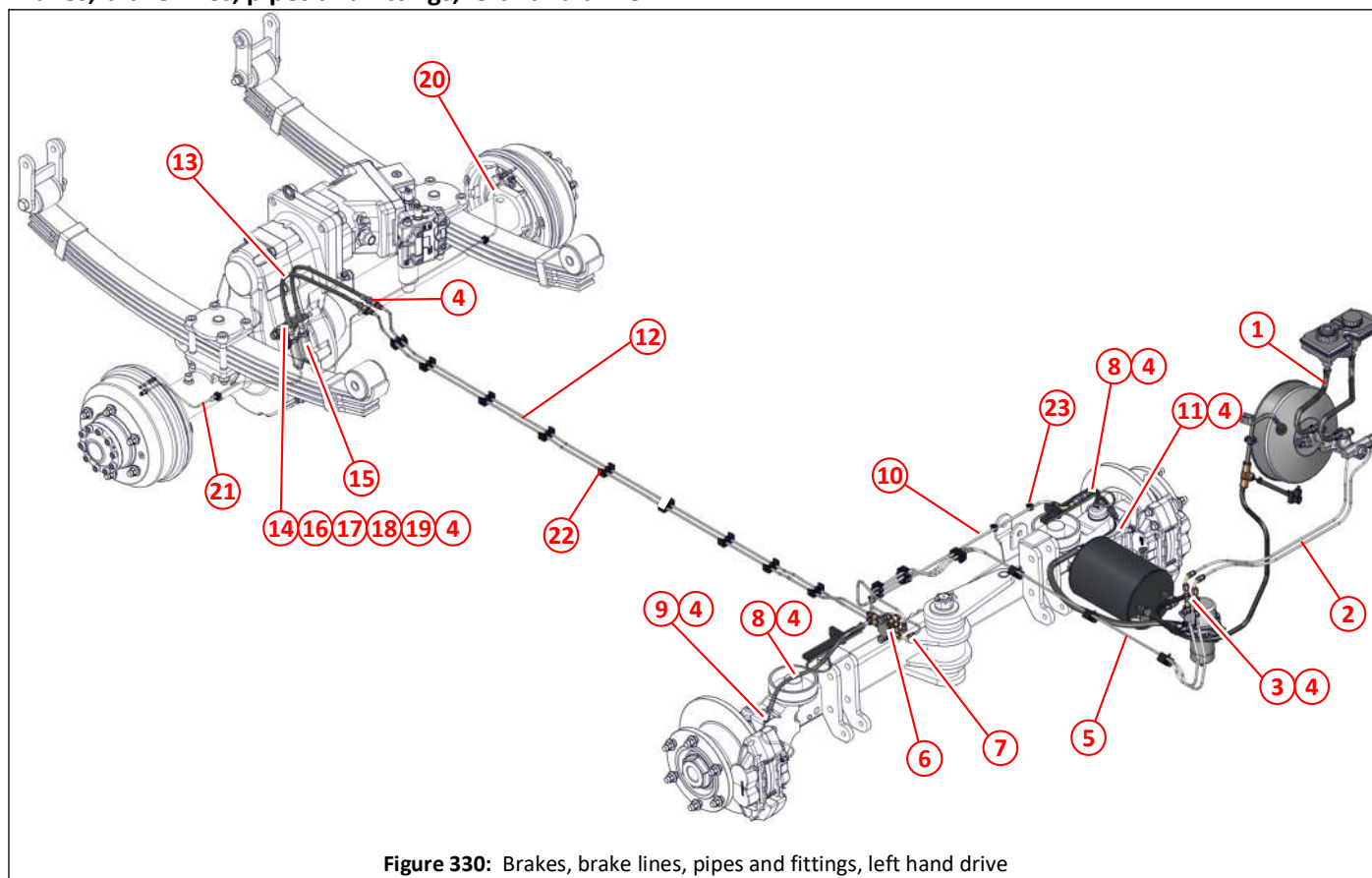


Figure 329: Brakes, vacuum pump and reservoir

Item	Part No	Qty	Description	
①	042530	1	Vacuum pump	384, 385
②	042712	1	Check valve 6mm	
③	042904	2	Elbow, quick connection, 9.49mm barbed tail 10 x 8	
④	010516	2	Worm drive hose clamp MOO [11-16]	
⑤	010918	0.46m	Hose $\frac{3}{8}$ ", see item ⑭ for HEMA version of this pipe.	
⑥	044250	1	Adapter, quick changer, $\frac{1}{4}$ " BSP to $\frac{3}{8}$ " (SAE J2044)	
⑦	011152	1	Dowty seal $\frac{1}{4}$ " BSP	
⑧	044281	1	Brake vacuum reservoir	
⑨	006061	1	Elbow, push in, 12MM to $\frac{1}{4}$ " BSP	
⑩	014407	As req	Pipe air, black nylon, $\varnothing 12$ OD x 1.5, to reservoir	386
⑪	021876	1	Tee 12 x 12 x 6, push in	
⑫	042520	1	Pressure switch, vacuum	387
⑬	046481	1	Vacuum pipe complete from pump to reservoir (HEMA)	
⑭	042047	1	Bracket, vacuum pump	
⑮	46479	1	Bracket. vacuum pump (HEMA)	
⑯	000120	2	Set screw M6 x 45	
⑰	000254	4	Plain washer M6	
⑱	011071	2	M6 Nyloc nut	
⑲	011011	2	Set screw M8 x 25	
⑳	011073	2	M8 Nyloc nut	

Brakes, brake lines, pipes and fittings, left hand drive

Figure 330: Brakes, brake lines, pipes and fittings, left hand drive

Item	Part No	Qty	Description	
①	014784	As req	Hose brake $\varnothing 7.5 \times \varnothing 15$	387
②	043524	2	Flexible brake line	387
③	043530	2	Bulkhead fitting, brake, M10 x 1	
④	000077	10	Lock nut M10 x 1	
⑤	043525	2	Brake line, flexible, Cab to T-connector	
⑥	014818	2	T-connectors	391
⑦	043526	1	Brake line, flexible, T-connector to front right	
⑧	014816	2	Brake hose, MEL 50815	
⑨	043001	1	Brake pipe, caliper right hand	
⑩	043527	1	Brake line, flexible, T-connector to front left	
⑪	043000	1	Brake pipe, caliper left hand	
⑫	043528	2	Brake line, flexible, T-connector to rear	
⑬	014816	2	Brake hose, MEL 50815	
⑭	042988	1	Bracket, pressure relief valve	
⑮	042783	2	Pressure relief valve, brake	
⑯	012943	1	Spacer $\varnothing 10.5 \times \varnothing 20 \times 57$	
⑰	011094	1	Plain washer M10	
⑱	011095	1	Spring washer M10	
⑲	011407	1	Bolt M10 x 120	
⑳	044074	1	Brake pipe, rear axle, left hand side	
㉑	044075	1	Brake pipe, rear axle, right hand side	
㉒	014196	As req	Clip, pipe, $\varnothing 5$ double	
㉓	014195	As req	Clip, pipe, $\varnothing 5$ single	

Brakes, brake lines, pipes and fittings, right hand drive

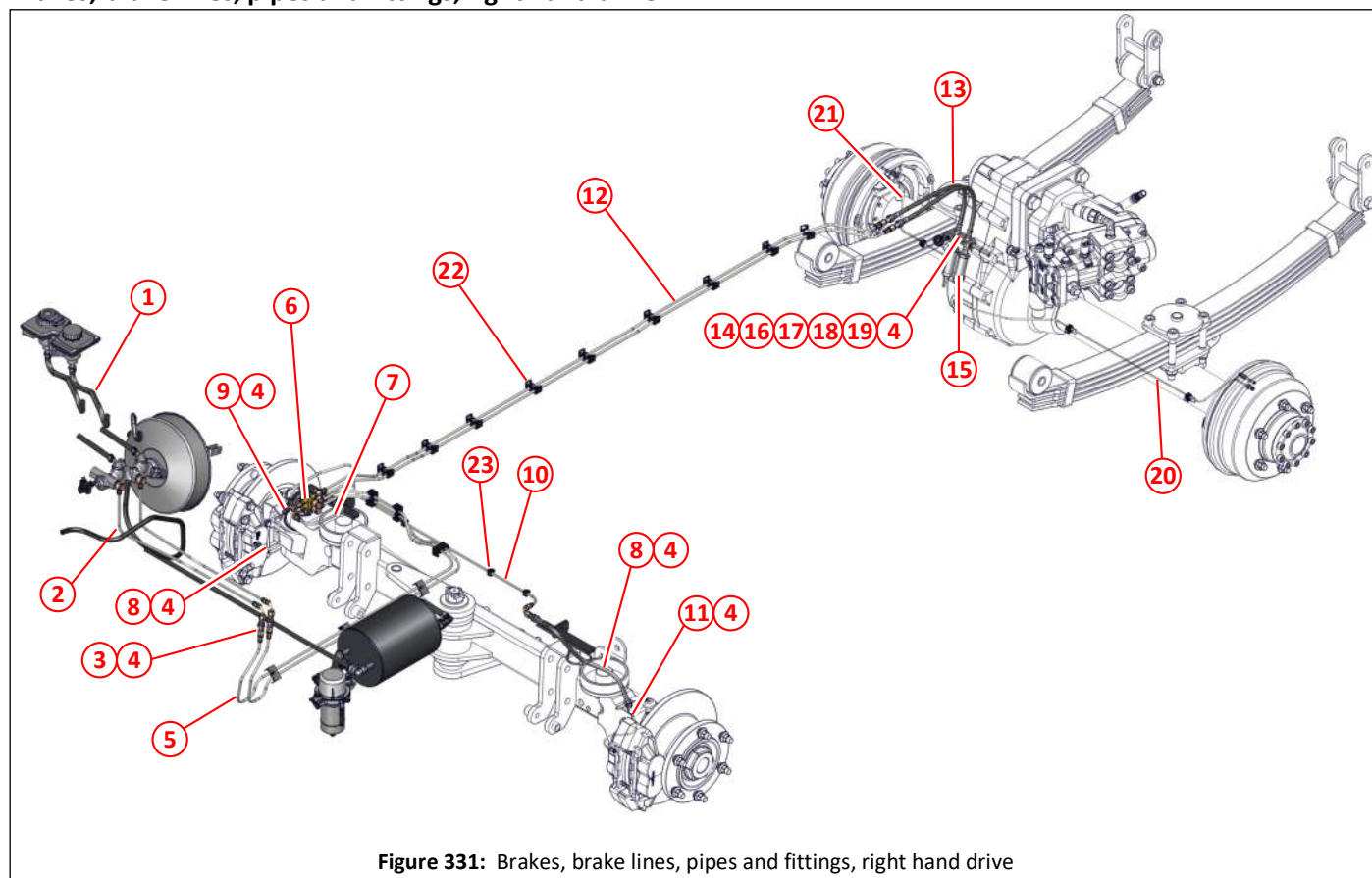
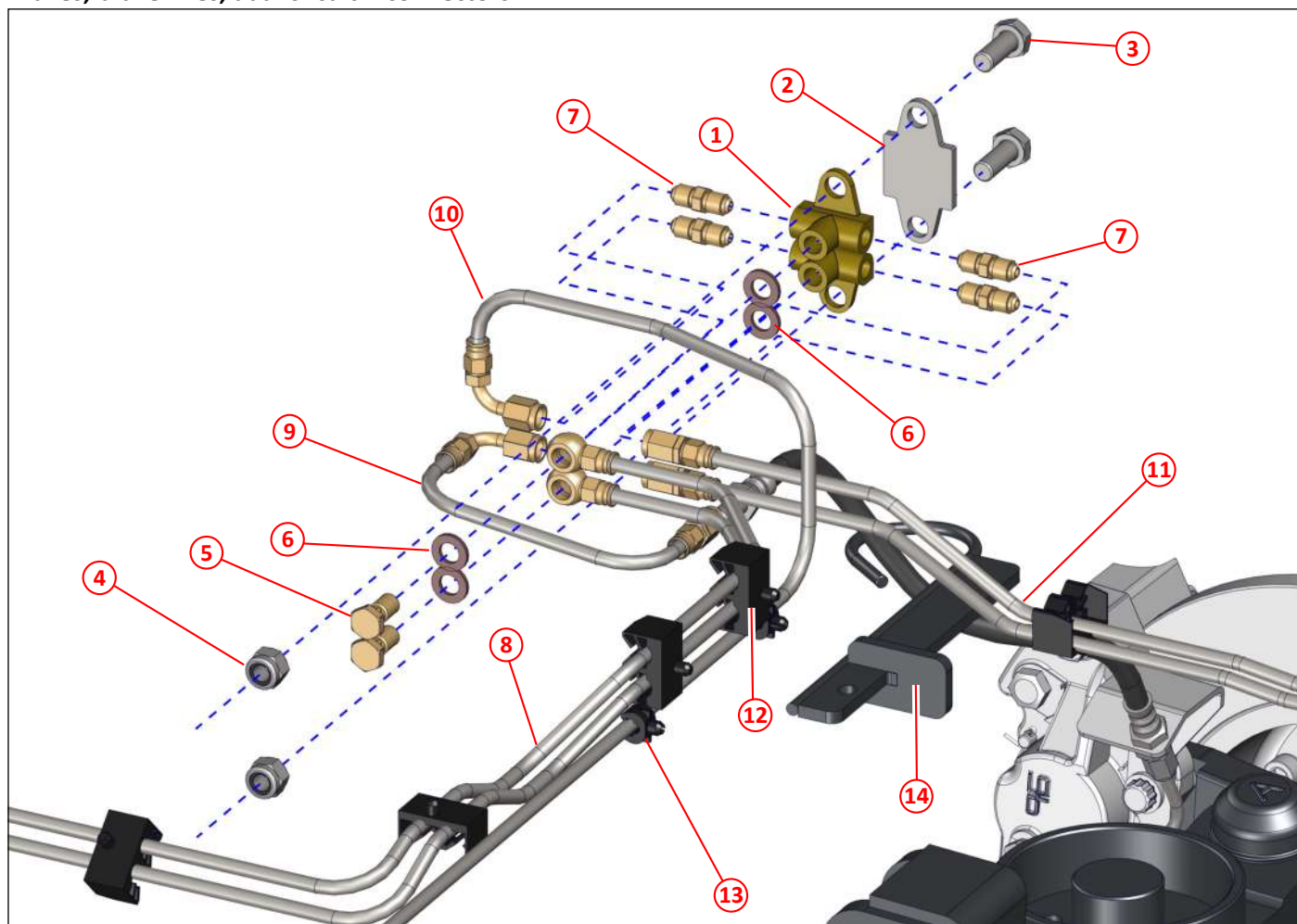


Figure 331: Brakes, brake lines, pipes and fittings, right hand drive

Item	Part No	Qty	Description	
①	014784	As req	Hose brake $\varnothing 7.5 \times \varnothing 15$	387
②	043524	2	Flexible brake line	387
③	043530	2	Bulkhead fitting, brake, M10 x 1	
④	000077	10	Lock nut M10 x 1	
⑤	043525	2	Brake line, flexible, Cab to T-connector	
⑥	014818	2	T-connectors	391
⑦	043526	1	Brake line, flexible, T-connector to front right	
⑧	014816	2	Brake hose, MEL 50815	
⑨	043001	1	Brake pipe, caliper right hand	
⑩	043527	1	Brake line, flexible, T-connector to front left	
⑪	043000	1	Brake pipe, caliper left hand	
⑫	043528	2	Brake line, flexible, T-connector to rear	
⑬	014816	2	Brake hose, MEL 50815	
⑭	042988	1	Bracket, pressure relief valve	
⑮	042783	2	Pressure relief valve, brake	
⑯	012943	1	Spacer $\varnothing 10.5 \times \varnothing 20 \times 57$	
⑰	011094	1	Plain washer M10	
⑱	011095	1	Spring washer M10	
⑲	011407	1	Bolt M10 x 120	
⑳	044074	1	Brake pipe, rear axle, left hand side	
㉑	044075	1	Brake pipe, rear axle, right hand side	
㉒	014196	As req	Clip, pipe, $\varnothing 5$ double	
㉓	014195	As req	Clip, pipe, $\varnothing 5$ single	

Brakes, brake lines, dual circuit T-connectors

Figure 332: Brakes, brake lines, dual circuit T-connectors

Item	Part No	Qty	Description	
①	014818	2	T-connectors	389, 390
②	042997	1	Spacer, T-connector	
③	011031	2	Set screw M10 x 25	
④	011075	2	M10 Nyloc nut	
⑤	043531	2	Banjo bolt, single take off, M10 x 1 x 20	
⑥	043979	4	Washer, copper M10 x $\frac{3}{8}$ " x 2	
⑦	043529	4	Brake fitting, M10 x 1	
⑧	043525	2	Brake line, flexible, Cab to T-connector	
⑨	043526	1	Brake line, flexible, T-connector to front right	
⑩	043527	1	Brake line, flexible, T-connector to front left	
⑪	043528	2	Brake line, flexible, T-connector to rear	
⑫	014196	As req	Clip, pipe, $\varnothing 5$ double	
⑬	014195	As req	Clip, pipe, $\varnothing 5$ single	
⑭	045594	2	Front brake hose guide, 1 per side	

Brakes, front left, disc, hub and caliper

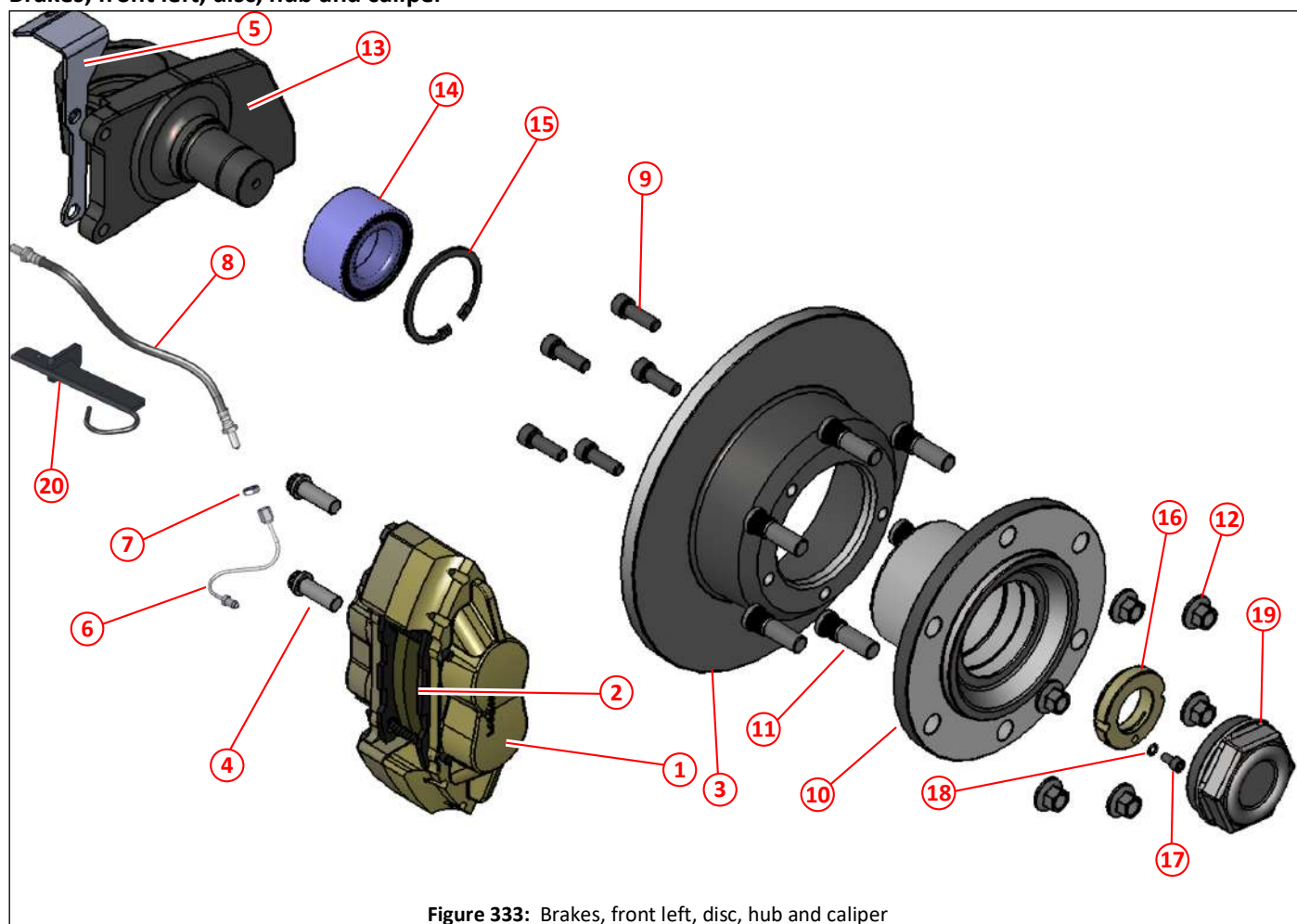
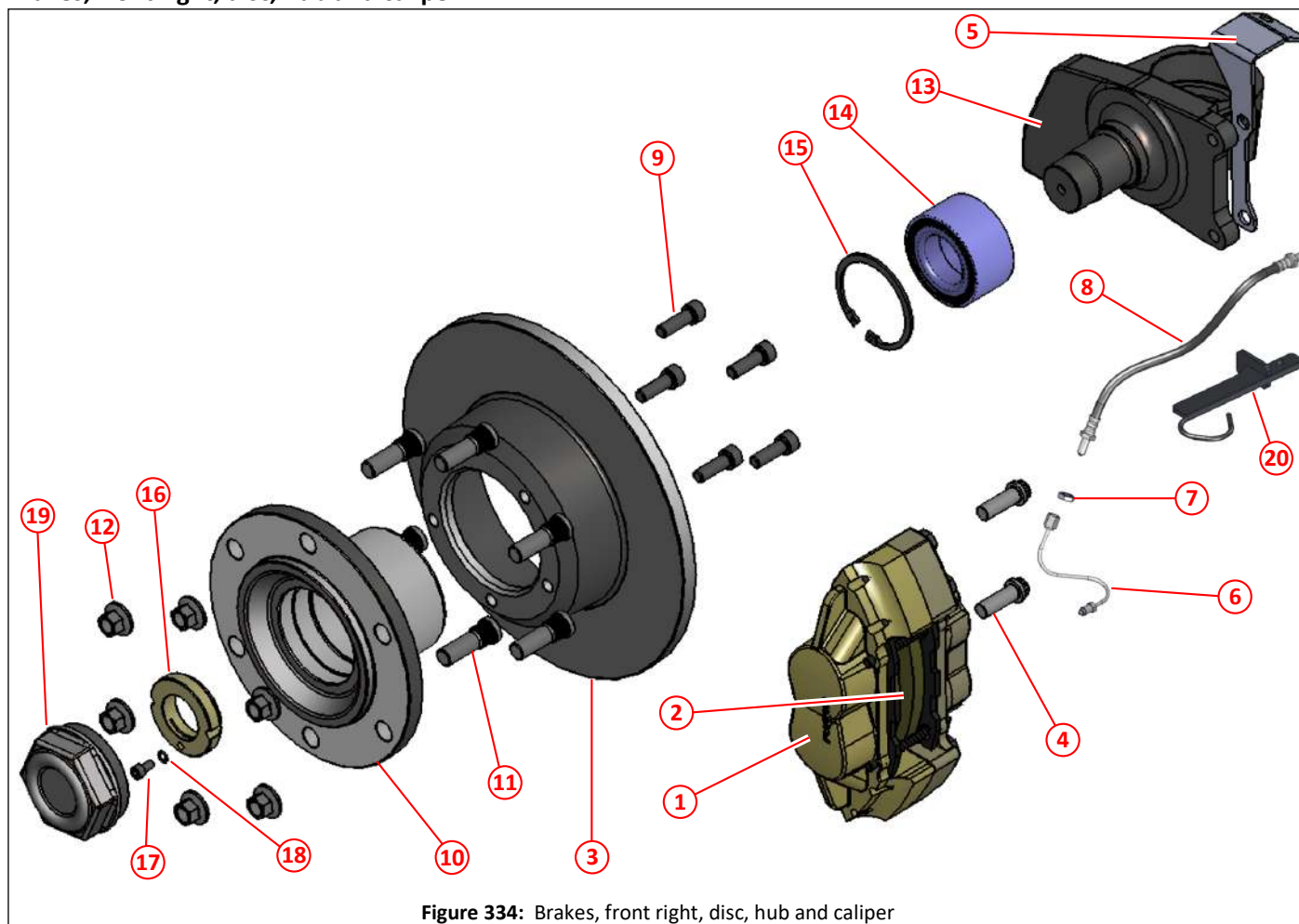


Figure 333: Brakes, front left, disc, hub and caliper

Item	Part No	Qty	Description	
①	044944	1	Brake caliper, left hand	384, 385, 394
②	044226	1	Brake pads, axle set	394
③	044940	1	Brake disc/rotor	384, 385, 394
④	044945	2	Caliper mounting bolt M12 x 1.25, 7 Node Security	
⑤	044950	1	Bracket, brake pipe, left hand	
⑥	043000	1	Brake pipe, caliper, left hand	
⑦	000077	1	Lock nut M10 x 1	
⑧	014816	1	Brake hose MEL 50815	
⑨	044943	5	Socket cap screw M10 x 30	
⑩	044946	1	Wheel hub	
⑪	044941	6	Wheel stud M14 x 1.5	
⑫	043671	6	Wheel nut M14 x 1.5	
⑬	044947	1	Stub axle, left hand	
⑭	044934	1	Bearing 42 x 76 x 39	
⑮	044935	1	Circlip ø76, internal	
⑯	044936	1	Adjuster nut	
⑰	044938	1	Cap screw M6 x 12	
⑱	044937	1	Spring washer M6	
⑲	044939	1	Hub cap ø80	
⑳	045594	1	Front brake hose guide	

Brakes, front right, disc, hub and caliper

Figure 334: Brakes, front right, disc, hub and caliper

Item	Part No	Qty	Description	
①	044970	1	Brake caliper, right hand	384, 385, 394
②	044226	1	Brake pads, axle set	394
③	044940	1	Brake disc/rotor	384, 385, 394
④	044945	2	Caliper mounting bolt M12 x 1.25, 7 Node Security	
⑤	044971	1	Bracket, brake pipe, right hand	
⑥	043001	1	Brake pipe, caliper, right hand	
⑦	000077	1	Lock nut M10 x 1	
⑧	014816	1	Brake hose MEL 50815	
⑨	044943	5	Socket cap screw M10 x 30	
⑩	044946	1	Wheel hub	
⑪	044941	6	Wheel stud M14 x 1.5	
⑫	043671	6	Wheel nut M14 x 1.5	
⑬	044969	1	Stub axle, right hand	
⑭	044934	1	Bearing 42 x 76 x 39	
⑮	044935	1	Circlip ø76, internal	
⑯	044936	1	Adjuster nut	
⑰	044938	1	Cap screw M6 x 12	
⑱	044937	1	Spring washer M6	
⑲	044939	1	Hub cap ø80	
⑳	045594	1	Front brake hose guide	

Brakes, front caliper components

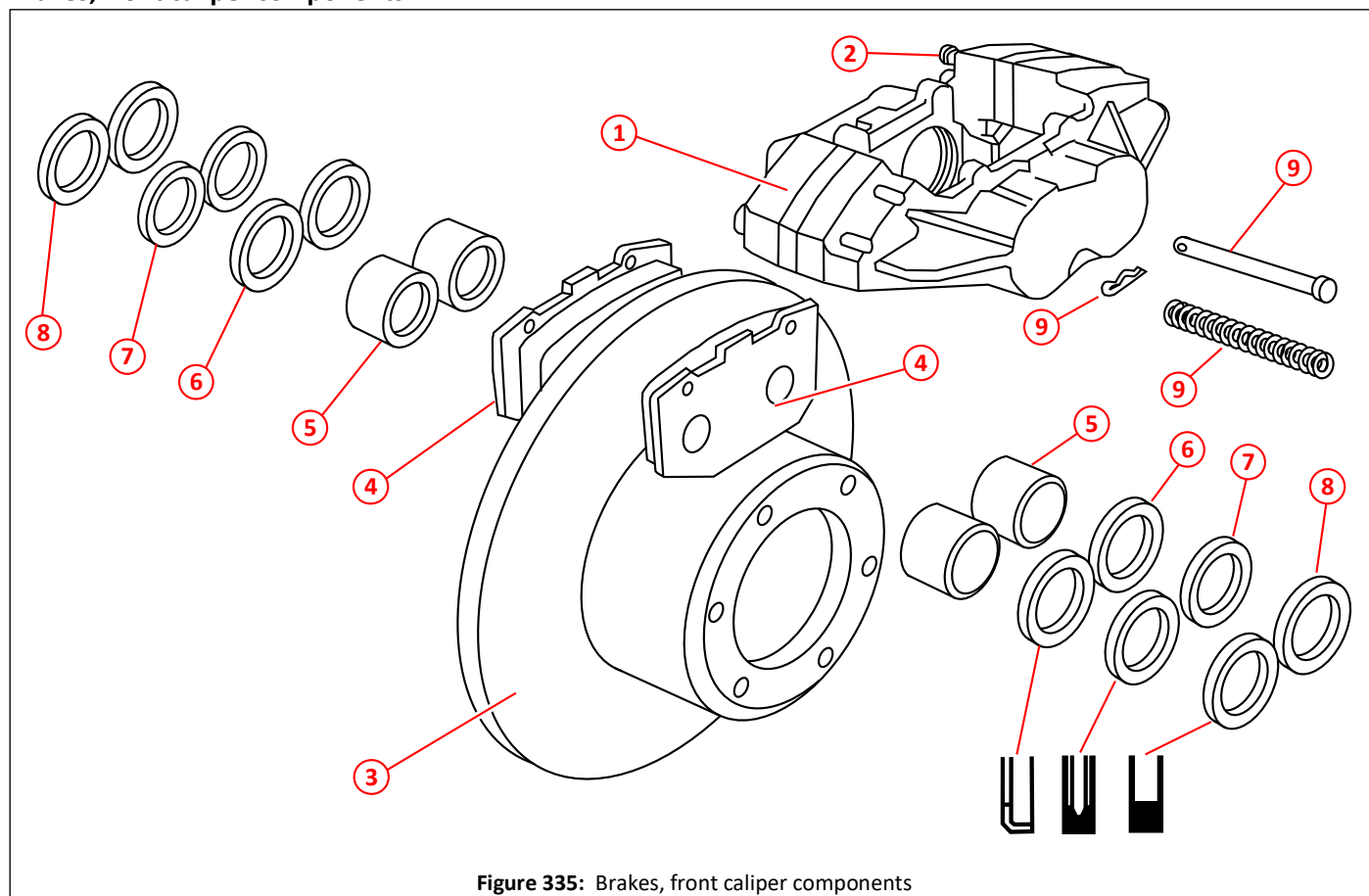
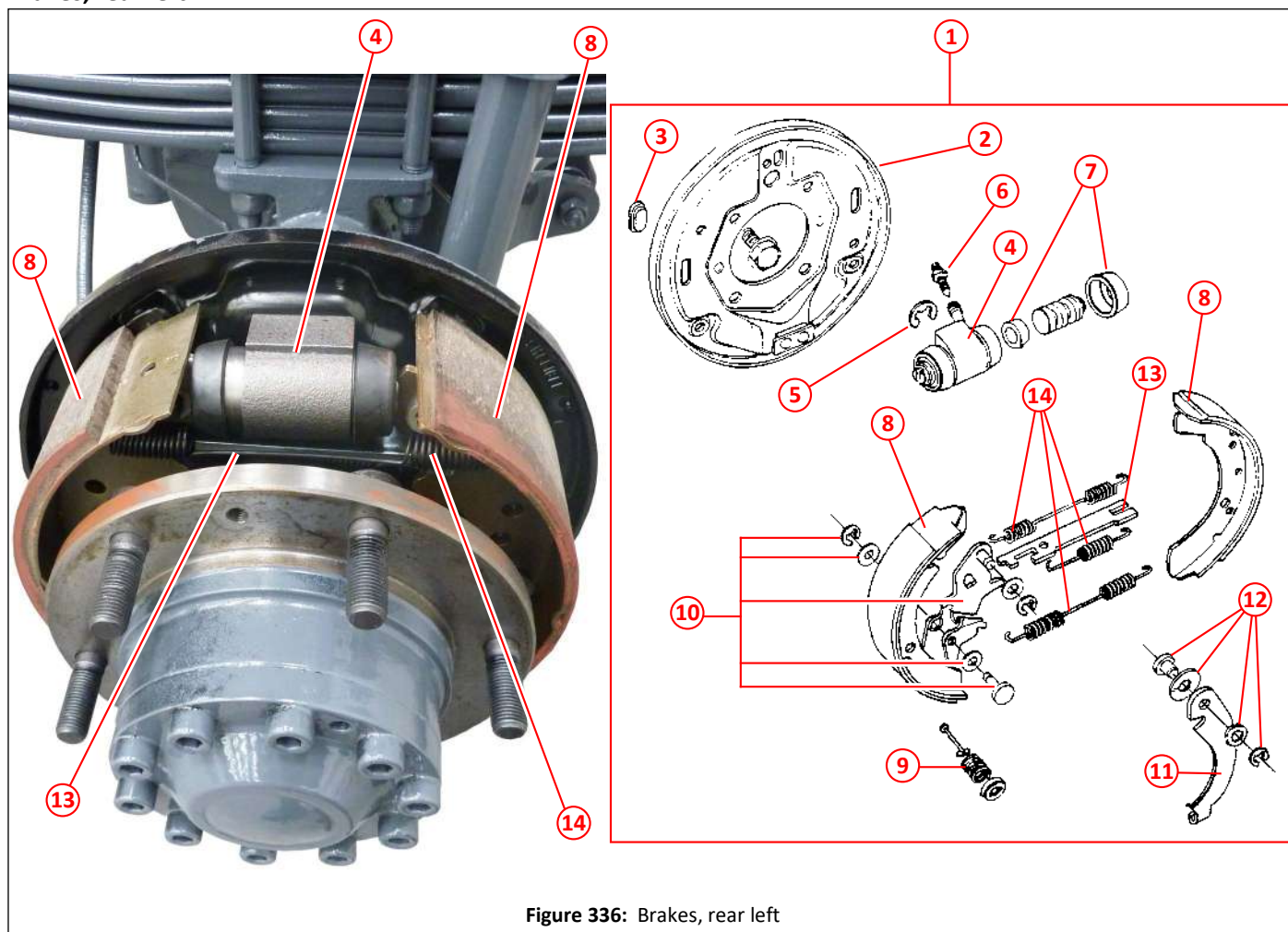


Figure 335: Brakes, front caliper components

Item	Part No	Qty*	Description	
①	044944	1	Brake caliper, left hand	384, 385, 392
①	044970	1	Brake caliper, right hand	393
②	045275	2	Bleed nipple	
③	044940	2	Brake disc/rotor	384, 385, 392, 393
④	044226	1	Brake pads, axle set	392, 393
⑤	045277	8	Piston	
⑥	045278	8	Wiper seal retainer	
⑦	045279	8	Wiper seal	
⑧	045280	8	Piston seal, brake fluid	
⑨	045276	1	Pad retaining kit	
NI	045282	8	Caliper bolt	
NI	045281	4	Cross port seal	

*.Please note quantities are for a complete axle.

Brakes, rear left

Figure 336: Brakes, rear left

Item	Part No	Qty	Description	
①	*TBC	1	Brake assembly, left hand, complete	
②	045259	1	Back plate, left hand	
③	045261	1	Plug, rubber	
④	020128	1	Wheel cylinder, left hand	
⑤		1	Clip, wheel cylinder, included with item ④.	
⑥	045273	1	Bleed screw	
⑦	045265	1	Seal kit, wheel cylinder	
⑧	020120	1	Brake shoe kit, complete axle set	
⑨	020125	1	Shoe hold down kit	
⑩	020121	1	Adjuster kit, complete axle set	
⑪	020124	1	Handbrake lever, left hand	
⑫	020122	1	Pivot pin kit	
⑬	020132	1	Cross lever	
⑭	020131	1	Spring kit, left hand	
NI	044908	1	Brake drum	

*.Contact Scarab Parts Department regarding this Part No.

Brakes, rear right

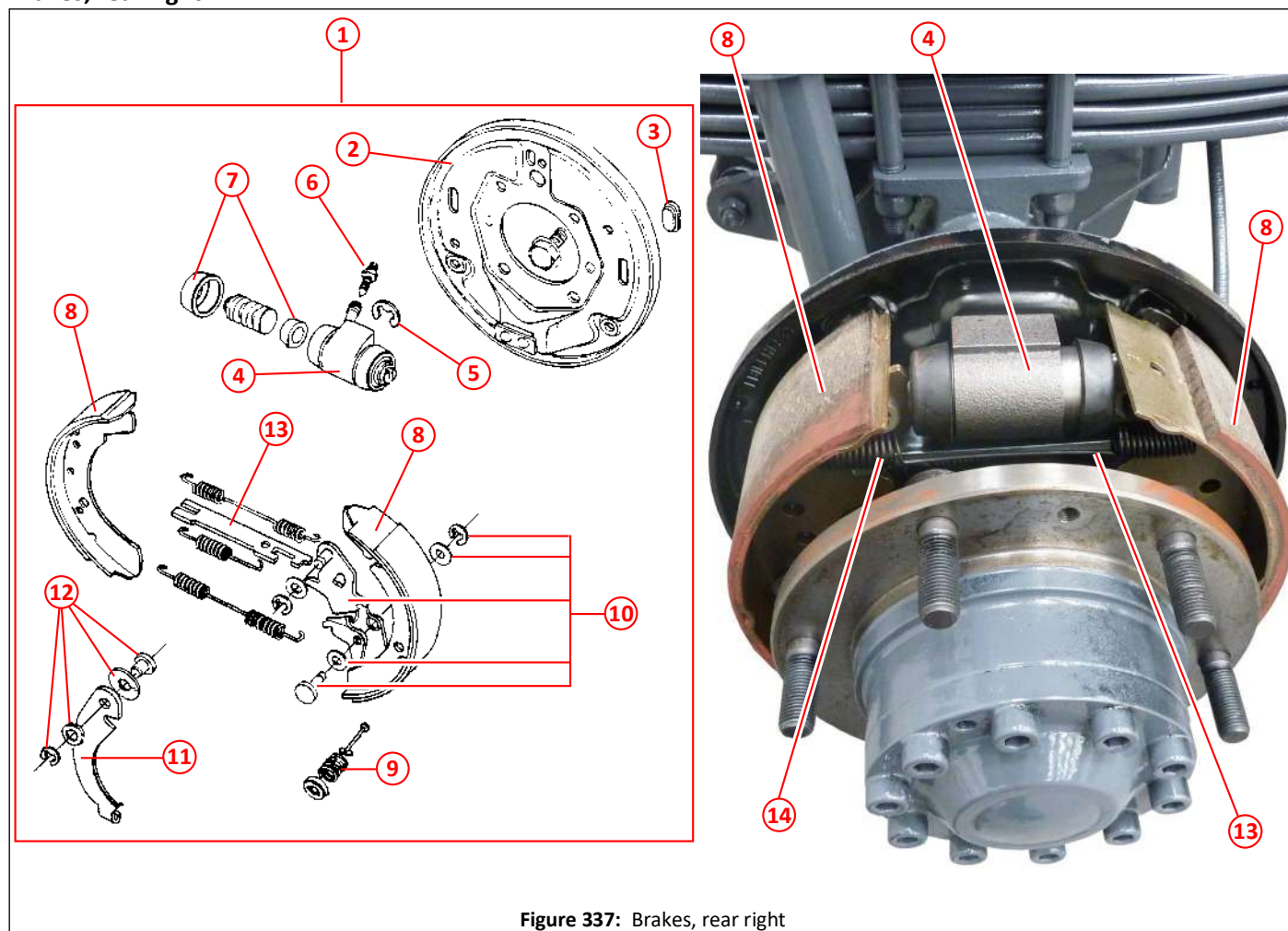
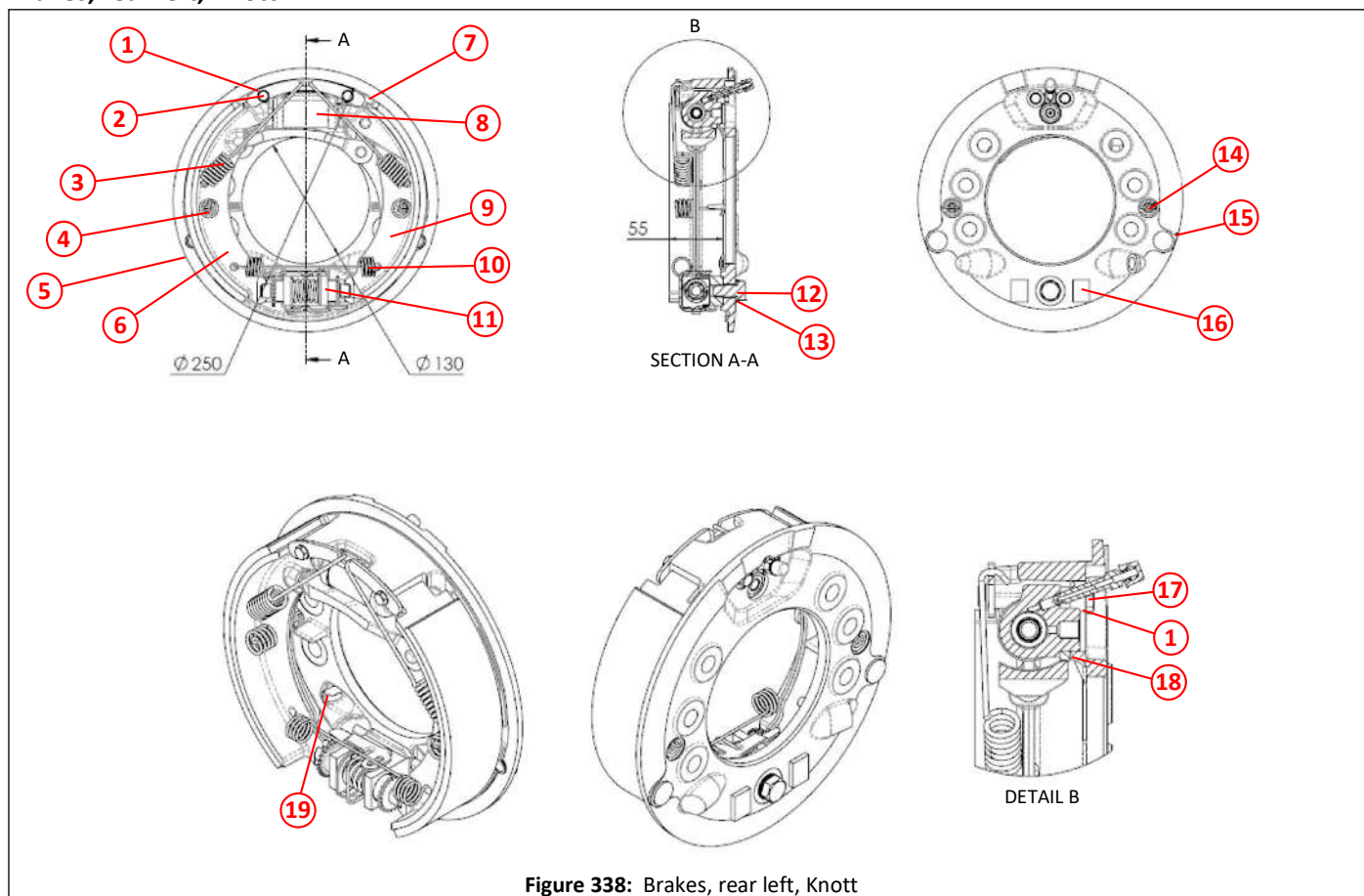


Figure 337: Brakes, rear right

Item	Part No	Qty	Description	
①	*TBC	1	Brake assembly, right hand, complete	
②	045260	1	Back plate, right hand	
③	045261	1	Plug, rubber	
④	0020127	1	Wheel cylinder, right hand	
⑤		1	Clip, wheel cylinder, included with item ④.	
⑥	045273	1	Bleed screw	
⑦	045265	1	Seal kit, wheel cylinder	
⑧	020120	1	Brake shoe kit, complete axle set	
⑨	020125	1	Shoe hold down kit	
⑩	020121	1	Adjuster kit, complete axle set	
⑪	020123	1	Handbrake lever, right hand	
⑫	020122	1	Pivot pin kit	
⑬	020132	1	Cross lever	
⑭	020130	1	Spring kit, right hand	
NI	044908	1	Brake drum	

*.Contact Scarab Parts Department regarding this Part No.

Brakes, rear left, Knott

Figure 338: Brakes, rear left, Knott

Item	Part No	Qty	Description	
①	SCA048408	4	Washer plain M6 zinc plated	
②	SCA048409	2	Setscrew M6 x 16	
③	SCA048410	2	Upper tension spring	
④	SCA048411	2	Shoe steady spring	
⑤	SCA048412	1	Backplate M/C 250 x 55 - Ø130 bore - left hand	
⑥	SCA048413	1	Brake shoe Knott 250 x 55 - left hand	
⑦	SCA048414	1	Sprint retaining bracket	
⑧	SCA048415	1	Brake cylinder Ø15.87 Knott Ref: 520244	
⑨	SCA048416	1	Brake shoe Knott 250 x 55 - common	
⑩	SCA048417	1	Lower tension spring	
⑪	SCA048418	1	Auto adjuster	
⑫	SCA048419	1	Setscrew M12 x 25	
⑬	SCA049420	1	Serrated washer	
⑭	SCA048421	2	Brake shoe retaining clip Knott: 43220-1	
⑮	SCA048422	2	Plastic spring cover	
⑯	SCA048423	2	Rubber backplate plug	
⑰	SCA048424	2	Setscrew M6 x 20 zinc plated	
⑱	SCA048425	1	Spacer plate Ø250 x 55 Knott	
⑲	SCA048426	1	Location ring	

Brakes, rear right, Knott

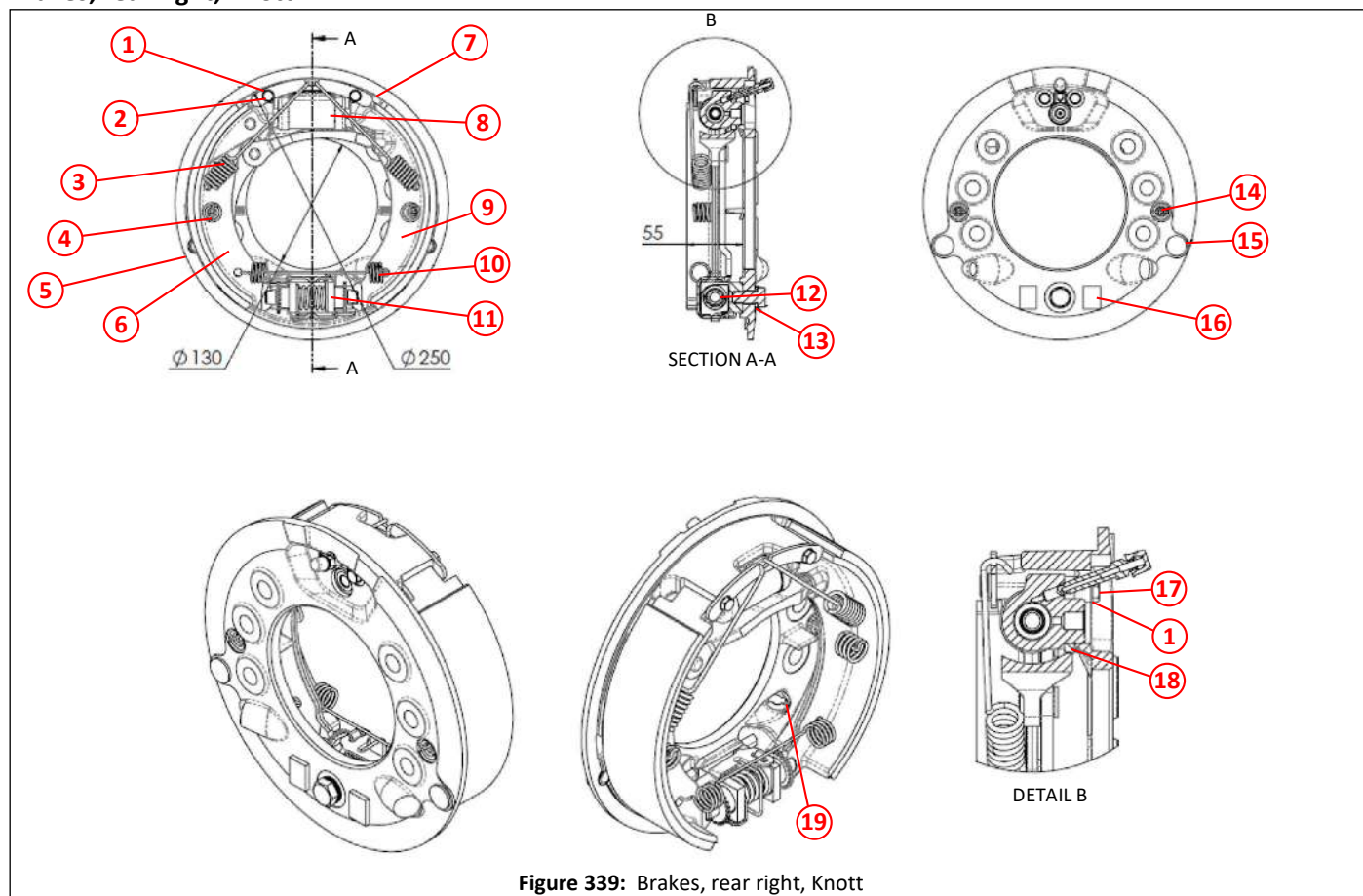
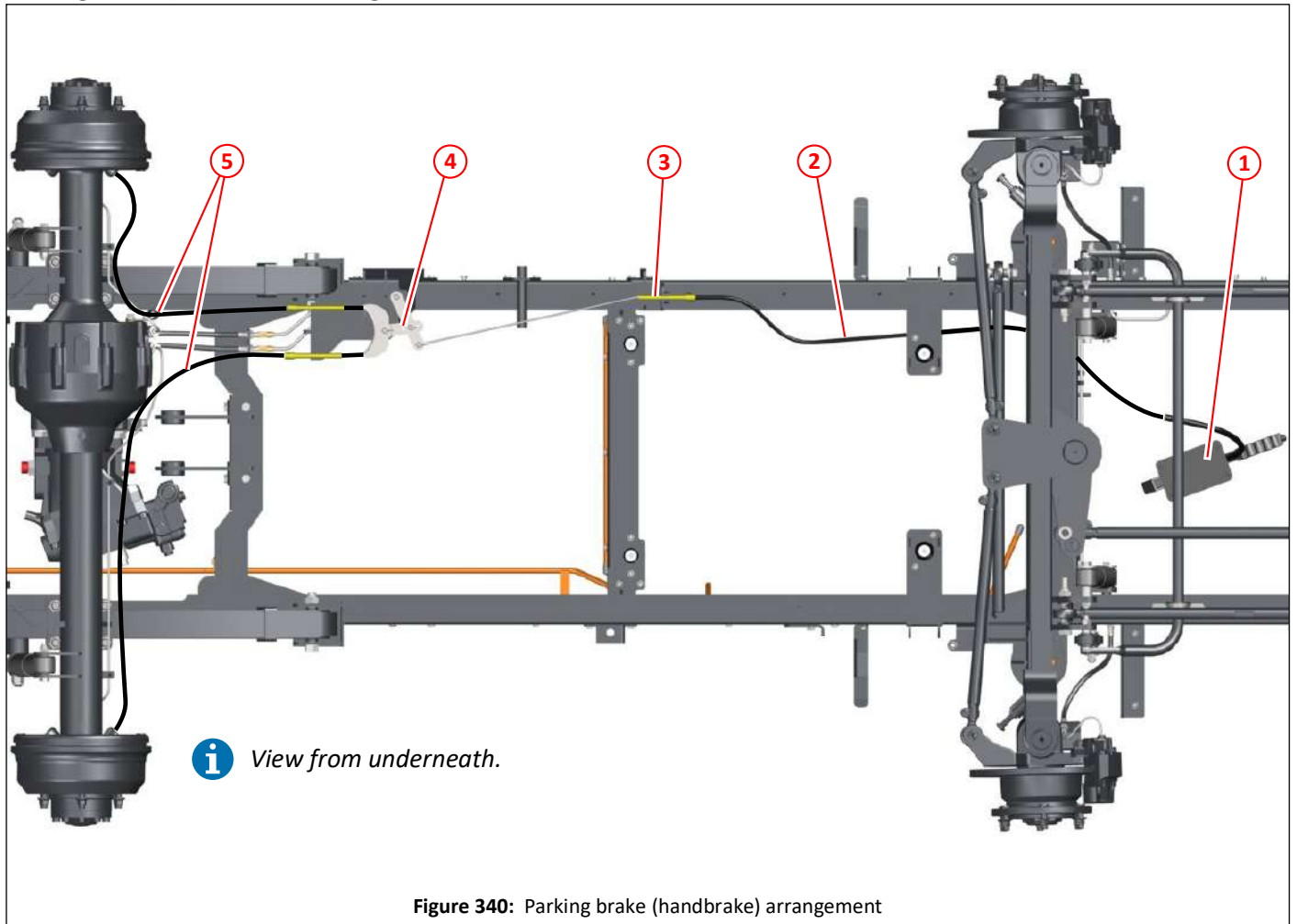


Figure 339: Brakes, rear right, Knott

Item	Part No	Qty	Description	
①	SCA048408	4	Washer plain M6 zinc plated	
②	SCA048409	2	Setscrew M6 x 16	
③	SCA048410	2	Upper tension spring	
④	SCA048411	2	Shoe steady spring	
⑤	SCA048427	1	Backplate M/C 250 x 55 - $\phi 130$ bore - right hand	
⑥	SCA048428	1	Brake shoe Knott 250 x 55 - right hand	
⑦	SCA048414	1	Sprint retaining bracket	
⑧	SCA048415	1	Brake cylinder $\phi 15.87$ Knott Ref: 520244	
⑨	SCA048416	1	Brake shoe Knott 250 x 55 - common	
⑩	SCA048417	1	Lower tension spring	
⑪	SCA048418	1	Auto adjuster	
⑫	SCA048419	1	Setscrew M12 x 25	
⑬	SCA049420	1	Serrated washer	
⑭	SCA048421	2	Brake shoe retaining clip Knott: 43220-1	
⑮	SCA048422	2	Plastic spring cover	
⑯	SCA048423	2	Rubber backplate plug	
⑰	SCA048424	2	Setscrew M6 x 20 zinc plated	
⑱	SCA048425	1	Spacer plate $\phi 250$ x 55 Knott	
⑲	SCA048426	1	Location ring	

Parking brake (handbrake) arrangement



Item	Part No	Qty	Description	
①	032993	1	Parking brake lever assembly	400
②	035679		Parking brake cable, primary	400, 401
③			Adjuster, parking brake cable	
④			Balancer and adjuster, parking brake cable	401
⑤	042855		Parking brake cable, secondary	401

Parking brake (handbrake), lever assembly

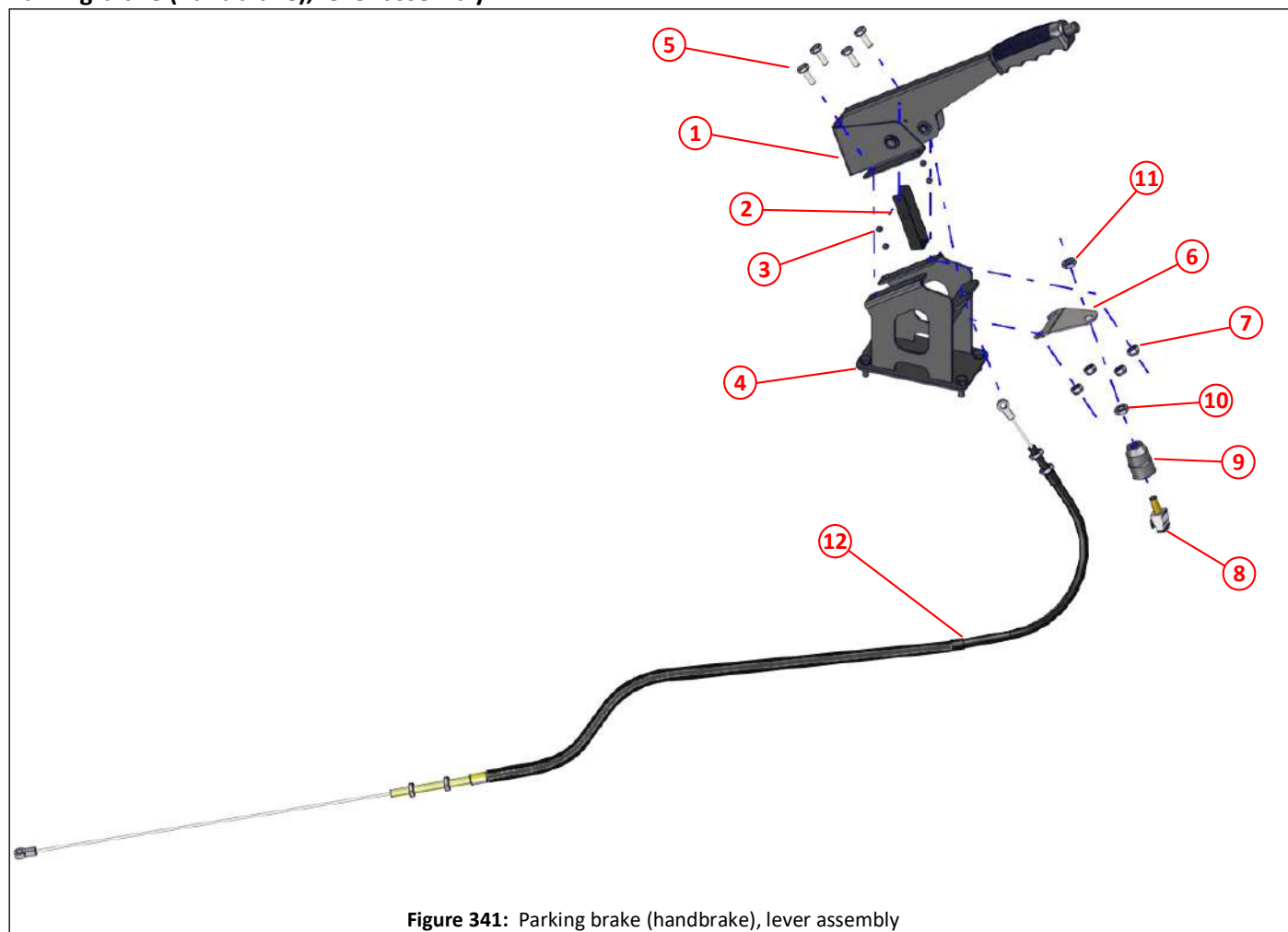
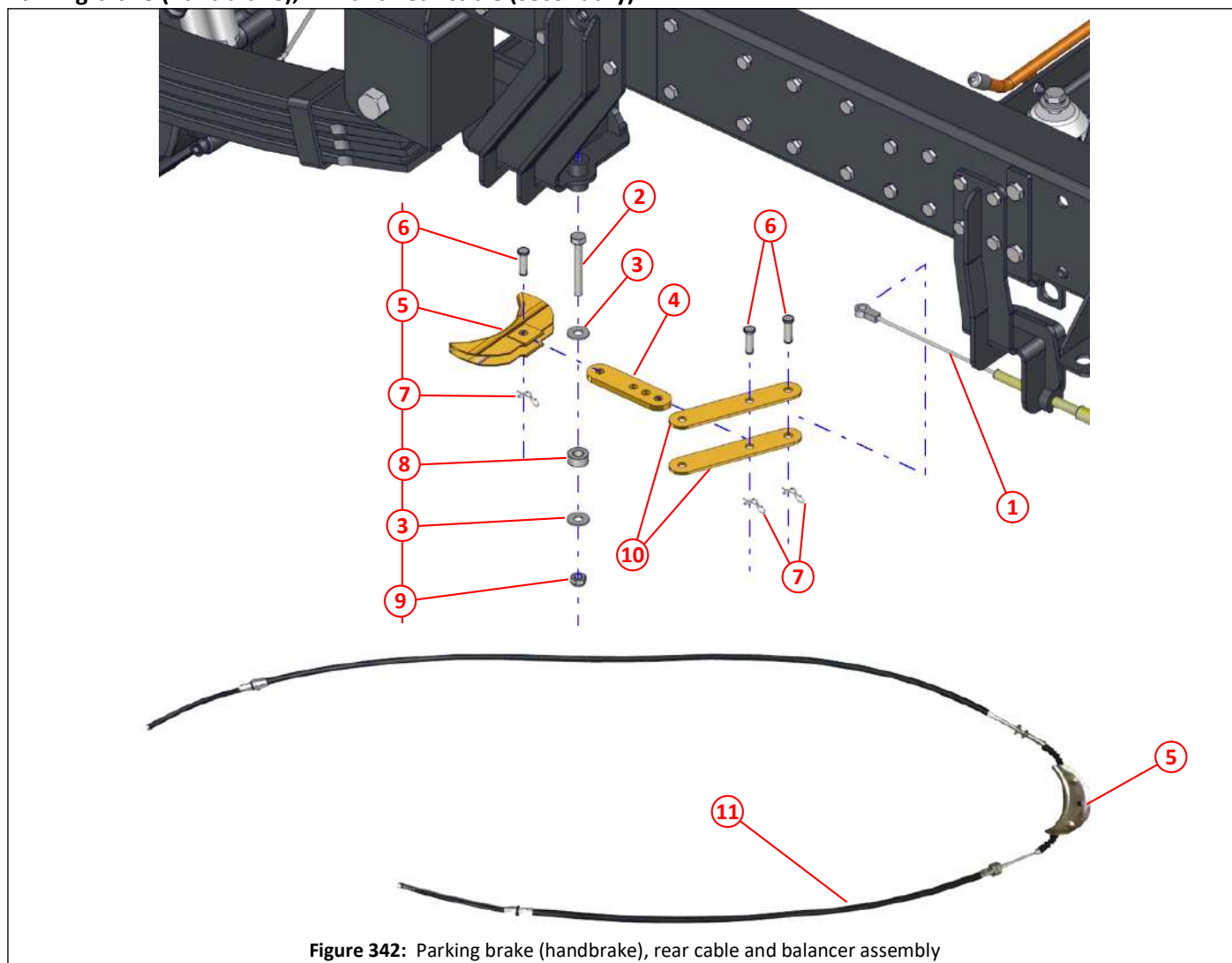


Figure 341: Parking brake (handbrake), lever assembly

Item	Part No	Qty	Description	
①	026811	1	Parking brake (handbrake) lever	399
②	032051	1	Brake switch plunger, parking brake	
③	011125	4	Blind rivet 3.2 x 10	
④	026792	1	Bracket, parking brake lever	
⑤	011010	4	Set screw M8 x 20	
⑥	032049	1	Mount, brake switch	
⑦	011073	4	Nyloc nut M8	
⑧	032910	1	Switch, brake light, complete with item ⑩.	240
⑨	004372	1	Rubber boot, brake switch	
⑩		1	Lock nut M10 x 1mm, brass	
⑪	000077	1	Lock nut M10 x 1mm	
⑫	035679	1	Cable, parking brake (handbrake), primary	401
NI	033218	1	Wiring loom, parking brake (handbrake) warning	

Parking brake (handbrake), link and rear cable (secondary)

Figure 342: Parking brake (handbrake), rear cable and balancer assembly

Item	Part No	Qty	Description	
①	035679	1	Cable, parking brake (handbrake), primary	400
②	011017	1	Bolt M8 x 60	
③	011092	2	Plain washer M8	
④	039413	1	Link, to secondary cable	399
⑤			Balancer, part of item ⑪. Shown to help visualise connection.	399
⑥	100097	3	Clevis pin	
⑦	100108	3	Split pin	
⑧	010166	1	Spacer 10 x 20 x 9	
⑨	011073	1	Nyloc nut M8	
⑩	033235	2	Link, to primary cable	399
⑪	042855	1	Cable, parking brake (handbrake), secondary	

Parking brake (handbrake), link, rear cable and balancer assembly, Knott

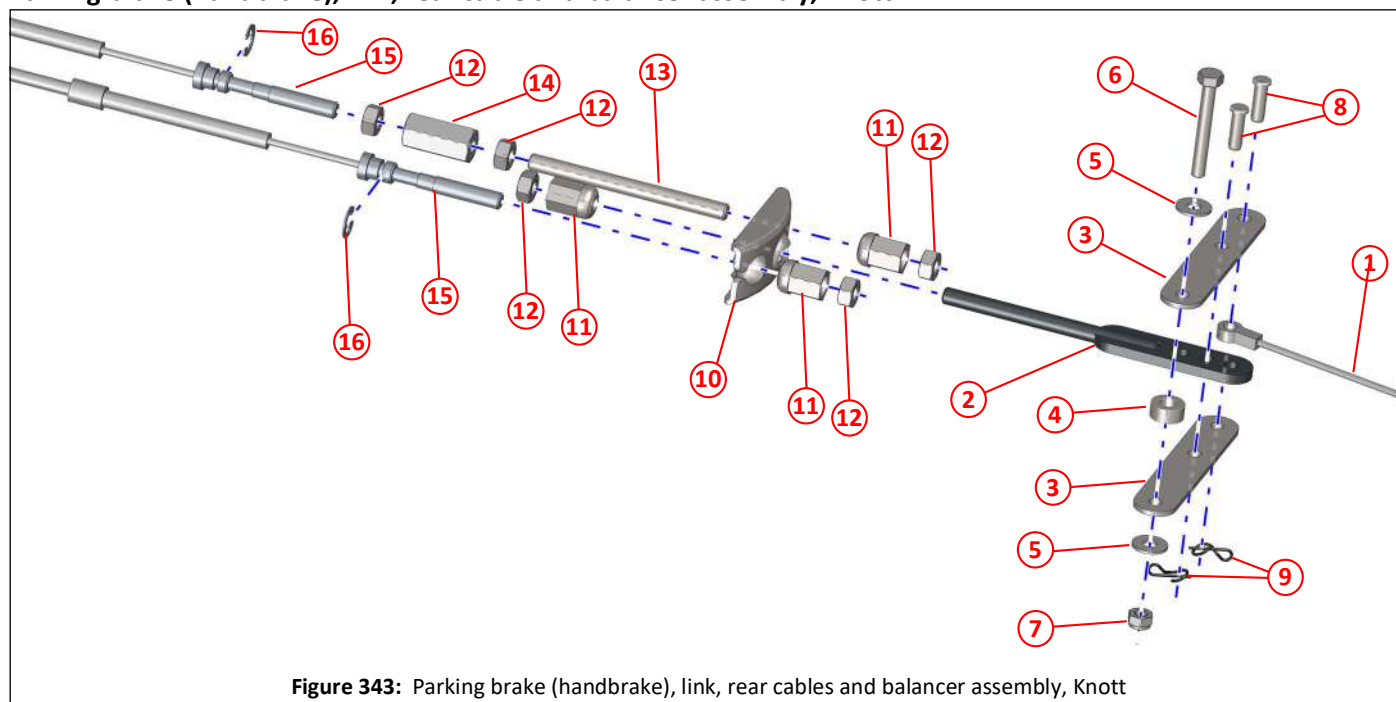


Figure 343: Parking brake (handbrake), link, rear cables and balancer assembly, Knott

Item	Part No	Qty	Description
①	SCA035679	1	Cable, parking brake (handbrake), primary, from handbrake lever
②	SCA047607	1	Handbrake link, Knott
③	SCA033235	2	Link, handbrake
④	SCA010166	1	Spacer 10 x 20 x 9 long
⑤	SCA011092	2	Washer M8
⑥	SCA011017	1	Bolt HT M8 x 60
⑦	SCA011073	1	Nyloc nut M8
⑧	SCA100097	2	Clevis pin
⑨	SCA100108	2	Split pin
⑩	SCA047723	1	Balance bar, Knott
⑪	SCA047722	3	Dome nut M10, Knott
⑫	SCA011074	5	Full nut M10
⑬	SCA048055	1	Handbrake cable extension M10, Knott
⑭	SCA027156	1	Spacer hex 19 x M10 x 40
⑮	SCA047724	2	Cable, parking brake (handbrake), secondary, to rear brakes
⑯	SCA048056	2	Clip 9mm

Labels, decals and badges

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Warning and information labels

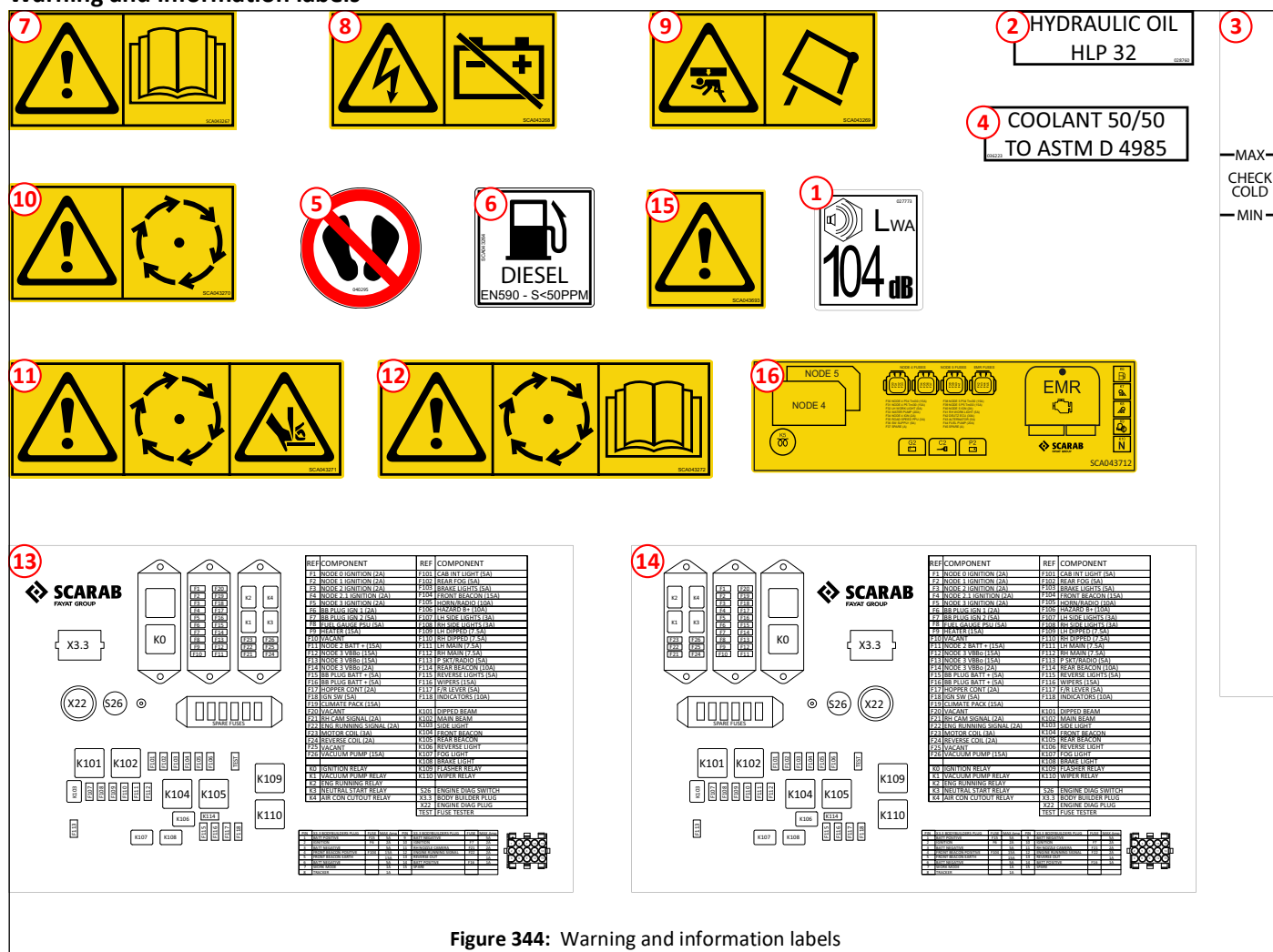
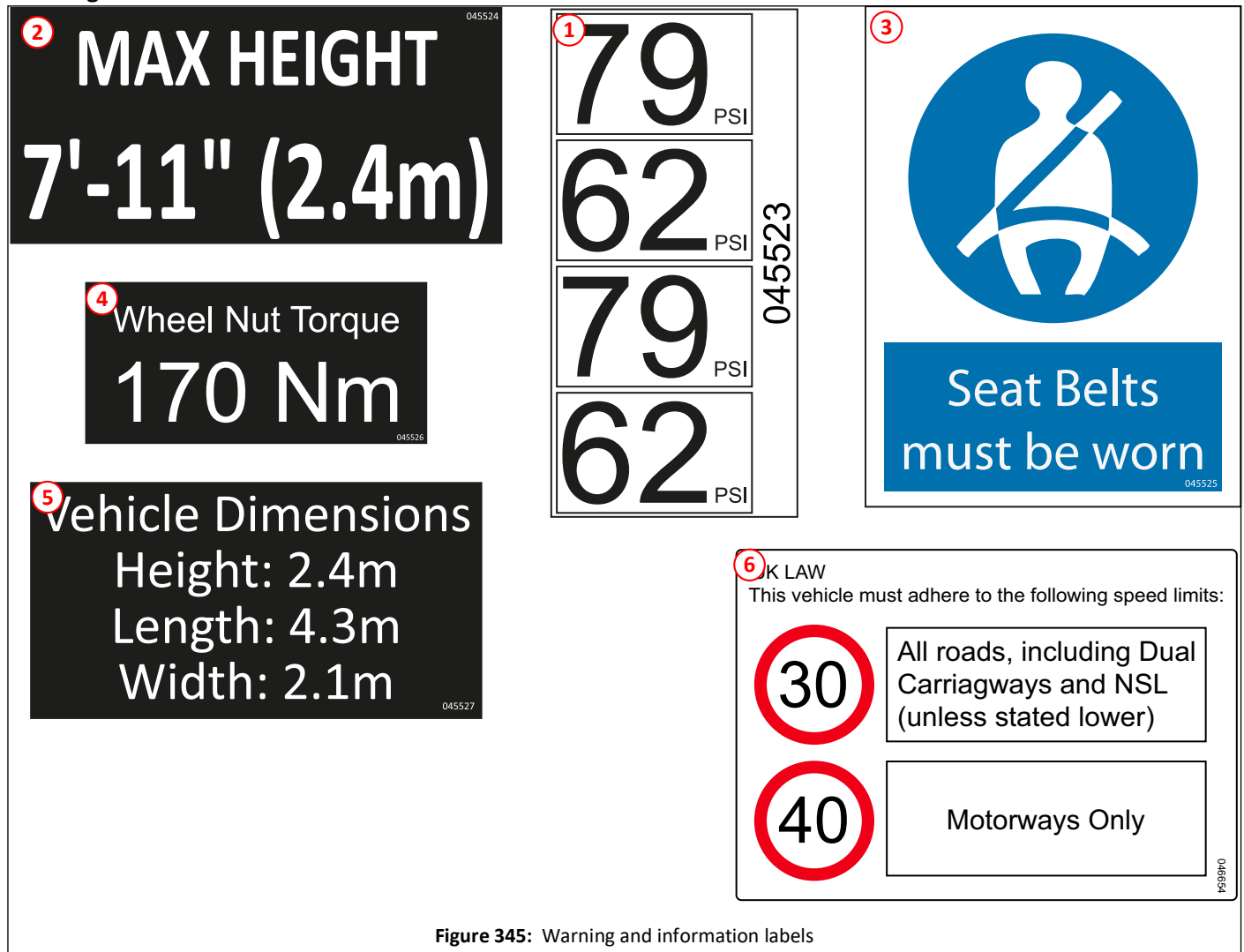


Figure 344: Warning and information labels

Item	Part No	Qty	Description	
①	027773	1	Label, 'Sound level 104dB', located under right hand seat	
②	028760	1	Label, 'Hydraulic oil', located on hydraulic oil tank	
③	034549	1	Label, 'Hydraulic oil level', located on hydraulic oil tank	
④	036223	1	Label, 'Coolant grade', located on coolant expansion tank	
⑤	040295	1	Label, 'No Step', located on cover over engine	
⑥	043264	1	Label, 'Diesel', located on left side of the hopper just above fuel filler	
⑦	043267	As req	Label, 'Warning - Read the manual', inside of windscreen, above driver	255, 256
⑧	043268	As req	Label, 'Warning - Electrical', various locations	
⑨	043269	As req	Label, 'Hopper prop', on hopper sides	
⑩	043270	As req	Label, 'Warning - Rotating parts', various locations	
⑪	043271	As req	Label, 'Warning - Rotating parts - Trap Hazard', various locations	
⑫	043272	As req	Label, 'Warning - Rotating parts - Read the manual', various locations	
⑬	043478	1	Label, 'Fuse Panel', left hand drive, located on inside of fuse panel access panel	
⑭	043479	1	Label, 'Fuse Panel', right hand drive, located on inside of fuse panel access panel	
⑮	043693	1	Label, 'Warning', located on coolant expansion tank	
⑯	043712	1	Label, 'Gantry fuses', located on inside of the gantry electrical cabinet door	

Warning and information labels



Item	Part No	Qty	Description
①	045523	1	Label, 'M25H tyre pressures' one for each wheel on body above wheel
②	045524	1	Label, 'Max height', inside cab area
③	045525	1	Label, 'Seat belts must be worn', inside cab area
④	045526	1	Label, 'Wheel nut torque 170', inside cab area
⑤	045527	1	Label, 'M25H dimensions', inside cab area
⑥	046654	1	Label, 'M25H UK Speed Limits', inside cab area

Decals

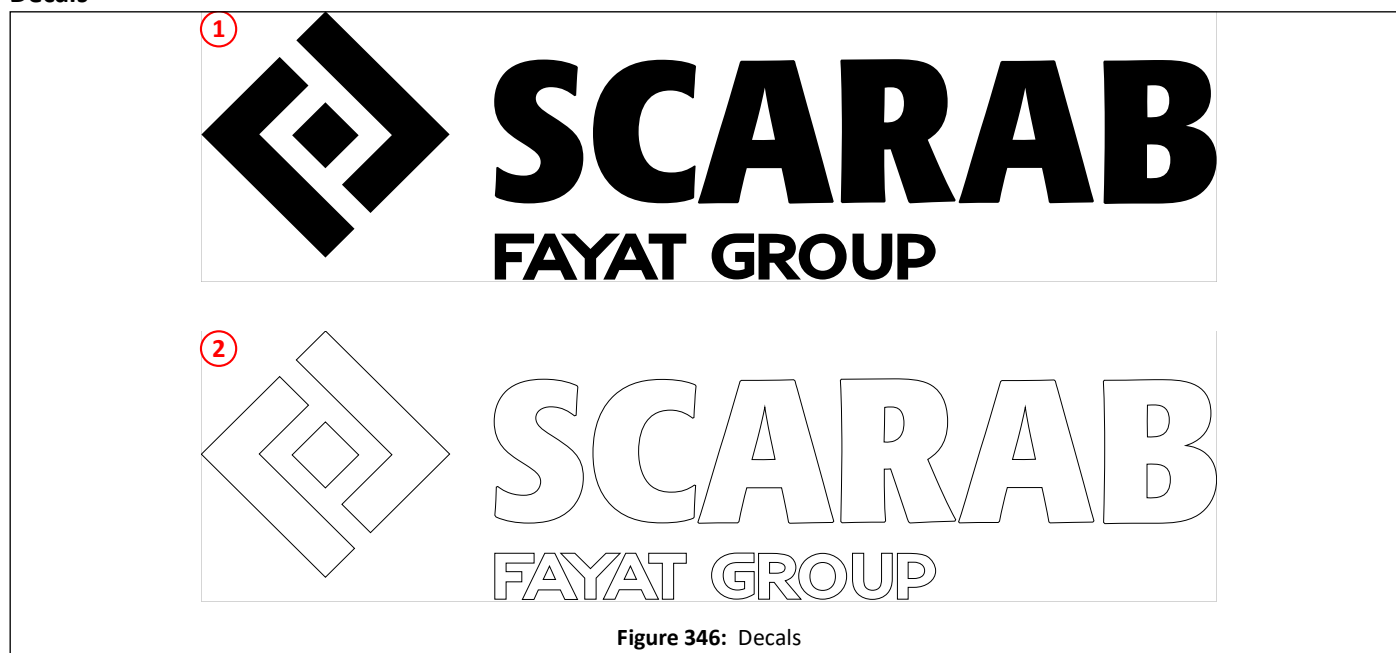


Figure 346: Decals

Item	Part No	Qty	Description	
①	042983	As req	Decal, Scarab Fayat logo, black	
②	042984	As req	Decal, Scarab Fayat logo, white	

Badges

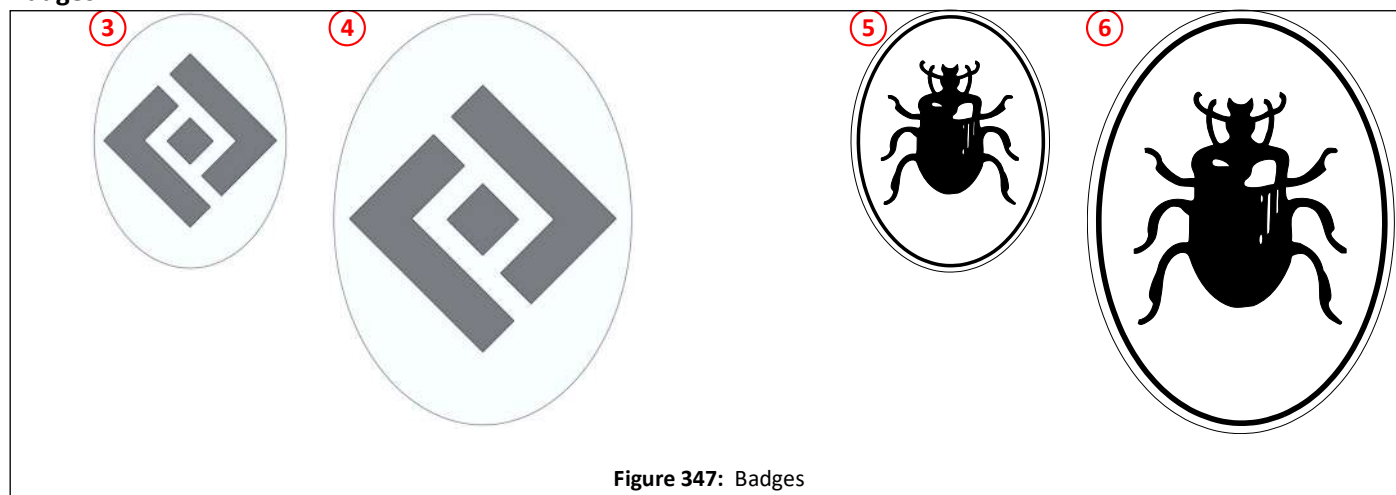


Figure 347: Badges

Item	Part No	Qty	Description	
③	045762	As req	Badge, FAYAT, domed	
④	045704	1	Badge, FAYAT, front panel	
⑤	040030	As req	Badge, Scarab beetle, cab quarter panels	
⑥	040473	1	Badge, Scarab beetle, front panel	

Scarab Sweepers Limited
Pattenden Lane - Marden - Kent TN12 9QD, UK
T: +44 (0)1622 831 006
E: scarab@scarab-sales.com - W: scarab-sweepers.com
Registered in England No. 18923459 - VAT No. GB 374 5002 68
Registered Office: Pattenden Lane, Marden, Tonbridge, Kent TN12 9QD, UK