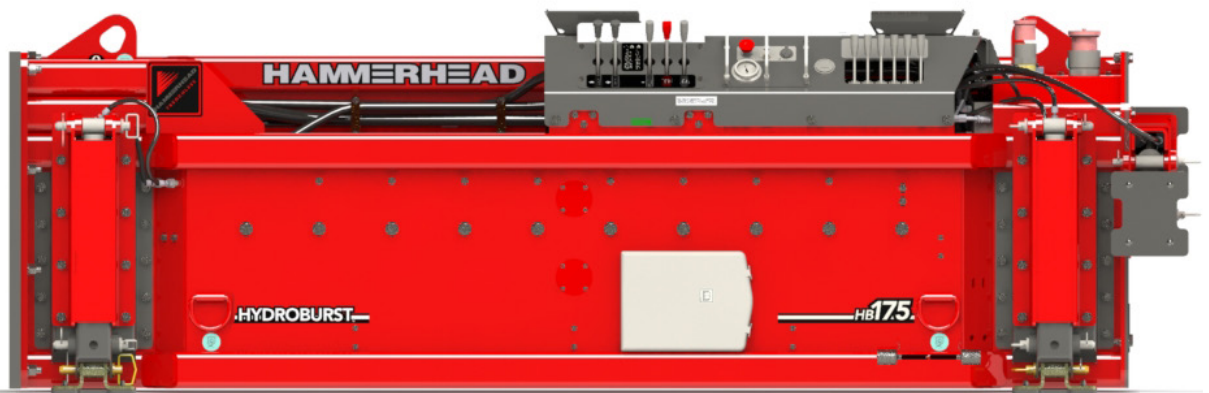




TECHNICAL PUBLICATIONS

Parts Manual HB175





HB175

For replacement copy order P/N 960-1023
Updated: 8/22/2019



Descriptions and specifications were current at the time of publication. However, Earth Tool Company LLC (HammerHead Trenchless) reserves the right to make changes in engineering, design and specifications; add improvements; or discontinue manufacturing at any time without notice or obligation. This manual may not reflect the most current version of your machine. Please visit www.hammerheadtrenchless.com for the most recent and up to date version.



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INTRODUCTION

HOW TO USE THIS MANUAL

This manual contains illustrations and parts list of components and assemblies which make up various HammerHead® models. Each page consists of the name of the assembly or component, a figure number, reference numbers, part numbers, part names, and the quantities of the parts used.

Assembly or component names help identify the illustration and parts for each figure. This name also helps locate the general area of the machine where the assembly or component can be located.

Figure numbers are used to identify each assembly or component and to group these assemblies or components into major categories.

Reference numbers shown in a column refers to the numbered parts in the illustration. This ties the part in the illustration to the part number and description in the parts list. Part numbers are used to identify individual parts or part assemblies.

Part descriptions provide the name of the part, plus additional information such as dimensional specifications and what parts are grouped together to form part assemblies, which helps you identify the part(s).

Quantities listed for each figure are only for that assembly or component and not the total used per machine unless stated so in the "Remarks" column.

This parts manual is not intended to be a complete guide for machine service or repairs. Contact your HammerHead dealer for any of your service or technical requirements.

ORDERING PARTS

Parts for repair or replacement are available through the worldwide network of authorized HammerHead dealers. The use of aftermarket replacement parts in your HammerHead equipment reduces performance and overall equipment life and may also void or interfere with the factory warranty.

Use only genuine HammerHead parts from your authorized dealer for repair or replacement. Always give the serial number and model number of the machine for which parts are being ordered. When ordering parts for component(s), which are not manufactured by HammerHead Trenchless Equipment, also give the serial number of that component(s). Order all parts by part number, part name, and quantity needed. Do not order parts by illustration reference numbers.

UPDATING AND REORDERING MANUALS

The parts lists, illustrations, and specifications in this manual are based on the latest information available at the time of publication. Your machine may have product improvements and options not yet contained in this manual. Please check the web site www.hammerheadtrenchless.com for any updates.

Earth Tool Company LLC reserves the right to make changes at any time without notice or obligation to you. Your dealer will receive notice of these changes and can assist you with accurate parts identification when ordering.

A copy of this manual is supplied with each machine. Additional copies are available through your dealer. When ordering additional manuals, use the reorder number listed on the front cover and the quantity needed. Electronic copies of this manual are also available on the web at www.hammerheadtrenchless.com.

OPERATIONS INSTRUCTIONS

Instructions on recommended equipment use and maintenance can be found in the Operator's Manual shipped with your equipment. Operator's Manuals are also available on the web at www.hammerheadtrenchless.com.

Thank you for buying and using Genuine HammerHead® Trenchless Equipment, parts and accessories.



A CHARLES MACHINE WORKS COMPANY

WARRANTY

Limited Warranty Policy

Earth Tool Company, LLC, dba HammerHead Trenchless ("HammerHead") warrants each new industrial product of its own manufacture to be free from defects in material and workmanship, under normal use and service for one full year after delivery to the owner. During the warranty period, HammerHead shall furnish parts without charge for any HammerHead product that fails because of defects in material and workmanship. This warranty and any possible liability of HammerHead Trenchless here under is in lieu of all other warranties, express, implied, or statutory, including, but not limited to any warranties of merchantability or fitness for a particular purpose.

The parties agree that the Buyer's SOLE AND EXCLUSIVE REMEDY against HammerHead, whether in contract or arising out of warranties, representations, or defects shall be for the replacement or repair of defective parts as provided herein. In no event shall HammerHead's liability exceed the purchase price of the product. The Buyer agrees that no other remedy (including, but not limited to, incidental or consequential loss) shall be available to him. If, during the warranty period, any product becomes defective by reason of material or workmanship and Buyer immediately notifies HammerHead of such defect, HammerHead shall, at its option, supply a replacement part or request the return of the product to its plant in Lake Mills, Wisconsin. No part shall be returned without prior written authorization from HammerHead, and this warranty does not obligate HammerHead to bear any transportation charges in connection with the repair or replacement of defective parts. HammerHead Trenchless will not accept any charges for labor and/or parts incidental to the removal or remounting of parts repaired or replaced under this Warranty.

This Warranty shall not apply to any part or product which shall have been installed or operated in a manner not recommended by HammerHead nor to any part or product which shall have been neglected, or used in any way which, in HammerHead's opinion, adversely affects its performance; nor negligence of proper maintenance or other negligence, fire or other accident; nor with respect to wear items; nor if the unit has been repaired or altered outside of an HammerHead authorized dealership in a manner of which, in the sole judgment of HammerHead affects its performance, stability or reliability; nor with respect to batteries which are covered under a separate adjustment warranty; nor to any product in which parts not manufactured or approved by HammerHead have been used; nor to normal maintenance services or replacement of normal service items. Equipment and accessories not of our manufacture are warranted only to the extent of the original Manufacturer's Warranty and subject to their allowance to us, if found defective by them. HammerHead reserves the right to modify, alter, and improve any product or parts without incurring any obligation to replace any product or parts previously sold with such modified, altered, or improved product or part. No person is authorized to give any other Warranty, or to assume any additional obligation on HammerHead's behalf unless made in writing, and signed by an officer of HammerHead.

HAMMERHEAD TRENCHLESS

LAKE MILLS, WISCONSIN

Decals

Decals—Domestic.....	8
Decals—International.....	12
Decals—Control Panel.....	16

Hull Components

Front Plate to Hull.....	20
Rear Cover & Horizontal Stabilizer to Hull.....	22
Hose Clamps to Hull.....	24
Vinyl Clamps to Hull.....	28
Brackets to Hull.....	30
Rails to Hull.....	34
Rod Stop to Hull.....	36
Roller Covers to Hull.....	38
Control Panel and Rod Box to Hull.....	40
Stabilizer Mounts to Hull.....	42
Stabilizers to Hull.....	44
Vertical Stabilizers.....	46
Bungee Vise to Hull.....	48
Breakout Vise to Hull.....	50
Spindle Frame.....	52
Spindle Drive Frame to Spindle Frame.....	54
Spindle to Hull.....	56
Spindle Cover to Spindle Frame.....	58

Hydraulics

Hydraulic Schematic.....	62
Hydraulic Valves.....	66
Hydraulic Valve Hoses.....	72
Hydraulic Control Valve.....	78
Hydraulic Control Valve Hoses.....	80
Hydraulic Stabilizer Valve.....	82
Hydraulic Stabilizer Valve Hoses.....	84
Hydraulic Motor and Spindle Hoses.....	86
Hydraulic Cylinder Locations.....	90
Hydraulic Stabilizer Hoses.....	92
Hydraulic Rear Stabilizer Hoses.....	96
Hydraulic Vise Hoses.....	98

Control Components

Control Panel Handles.....	104
Control Panel—Pressure Gauge.....	106
Control Panel—Electrical.....	108
Manual Compartment.....	110

Electrical

Wire Harness.....	114
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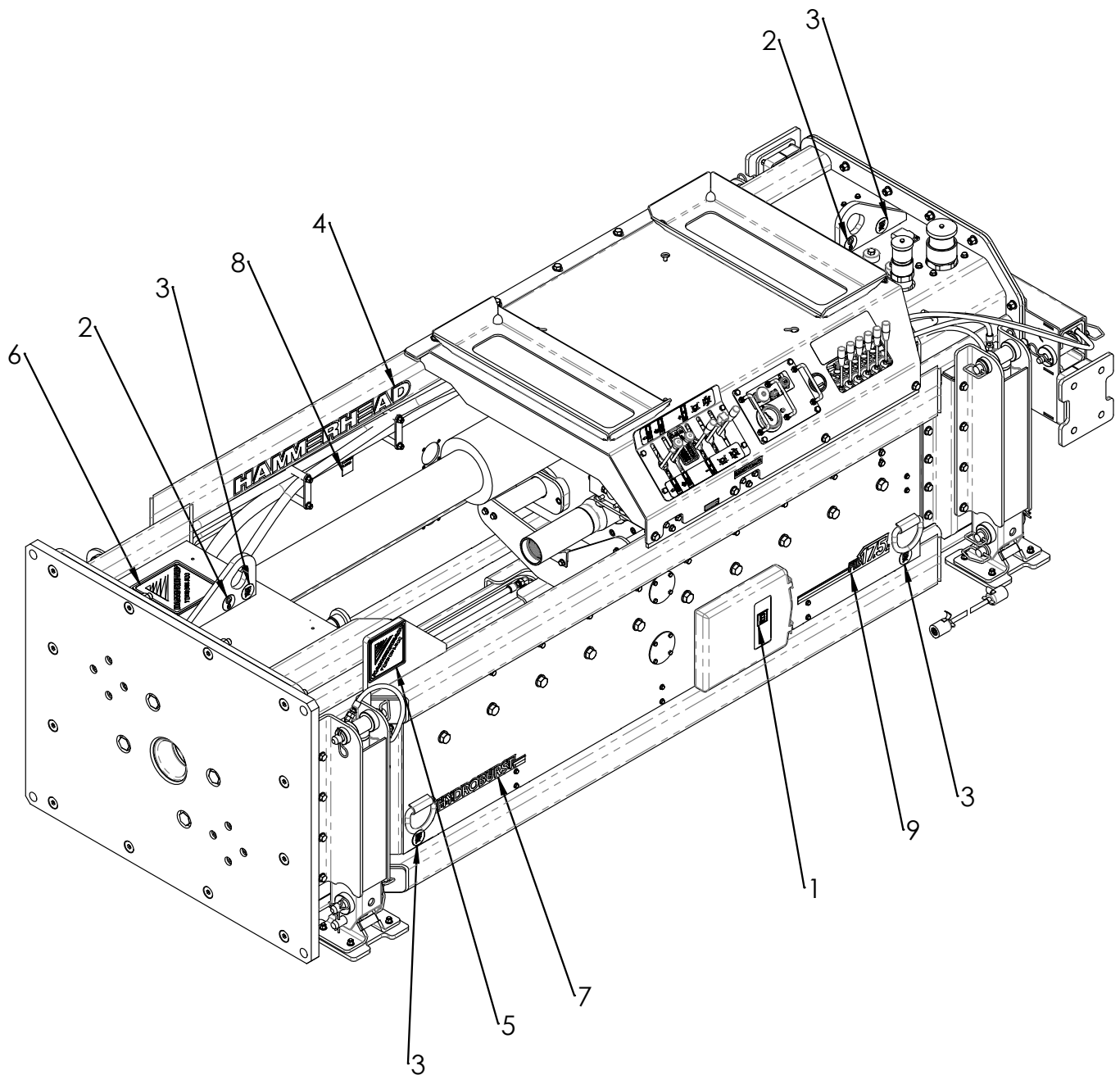
Miscellaneous

Sling - 2 Leg.....	122
Chain Sling.....	124
SAE Bolt and Nut Torque Value Chart.....	126
Metric Bolt and Cap Screw Torque Values.....	127
Torque Standards Hydraulic Fittings.....	128

DECALS

Decals—Domestic

HB175



Decals—Domestic

HB175

Bom ID	Part No	Description	Qty	Remarks
1	270-2040	OPERATORS MANUAL	1	
2	909-8194	DECAL, LIFT POINT (SMALL)	2	
3	909-8195	DECAL, TIE DOWN (SMALL)	4	
4	912-4971	DECAL, HAMMERHEAD - 29"	1	
5	912-4973	DECAL, HH MOUNTAIN SQ-6X6	1	
6	912-4975	DECAL, HH MOUNTAIN SQ-8X8	1	
7	913-3199	DECAL, HYDROBURST - 15"	1	
8	931-3031	DECAL, SERIAL NO. TAG, HB175	1	
9	931-3034	DECAL, HB175 - 15"	1	

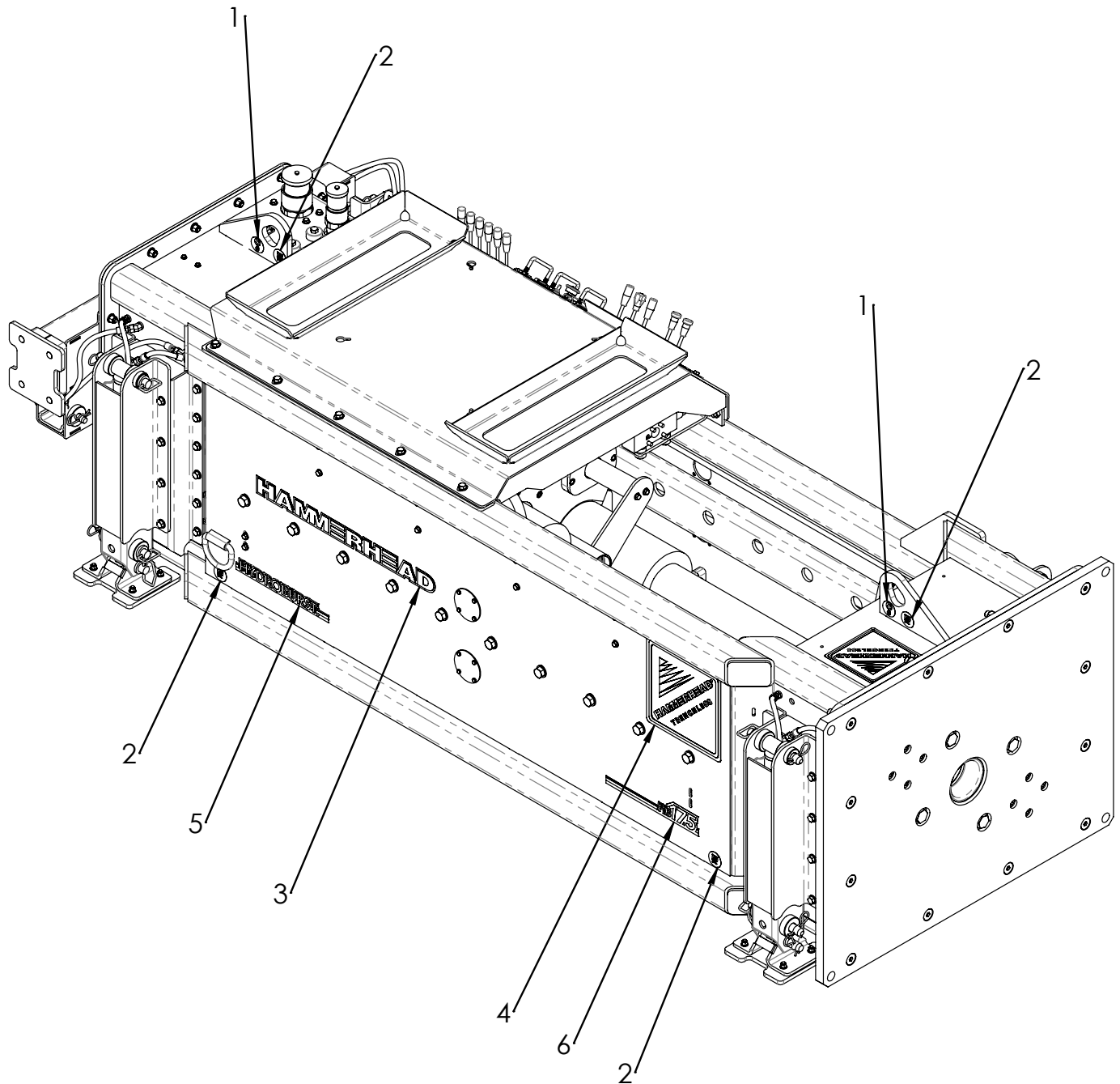
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Decals—Domestic

HB175



Decals—Domestic

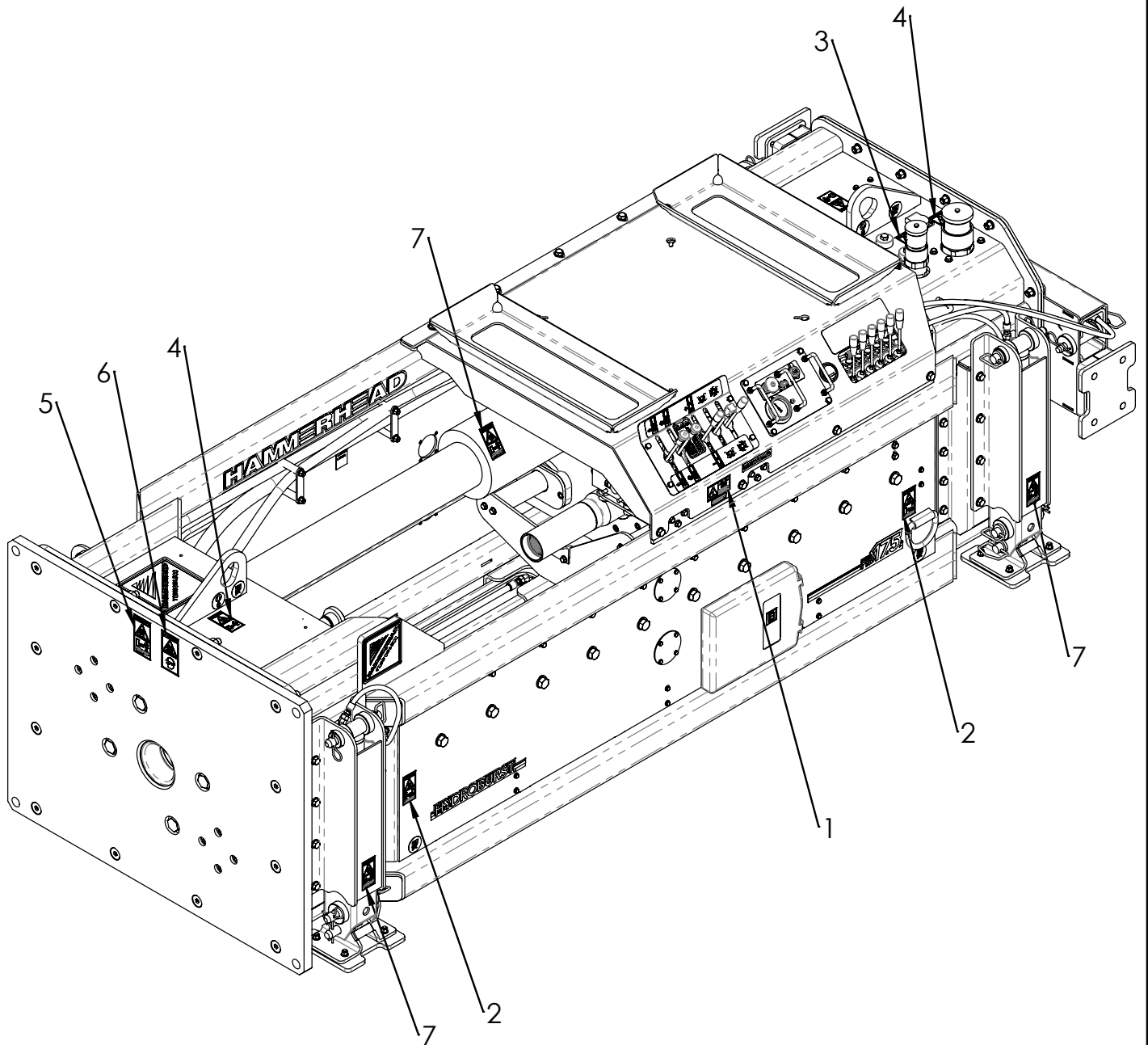
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Bom ID	Part No	Description	Qty	Remarks
1	909-8194	DECAL, LIFT POINT (SMALL)	2	
2	909-8195	DECAL, TIE DOWN (SMALL)	4	
3	912-4971	DECAL, HAMMERHEAD - 29"	1	
4	912-4976	DECAL, HH MOUNTAIN SQ-12X12	1	
5	913-3199	DECAL, HYDROBURST - 15"	1	
6	931-3034	DECAL, HB175 - 15"	1	

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Decals—International

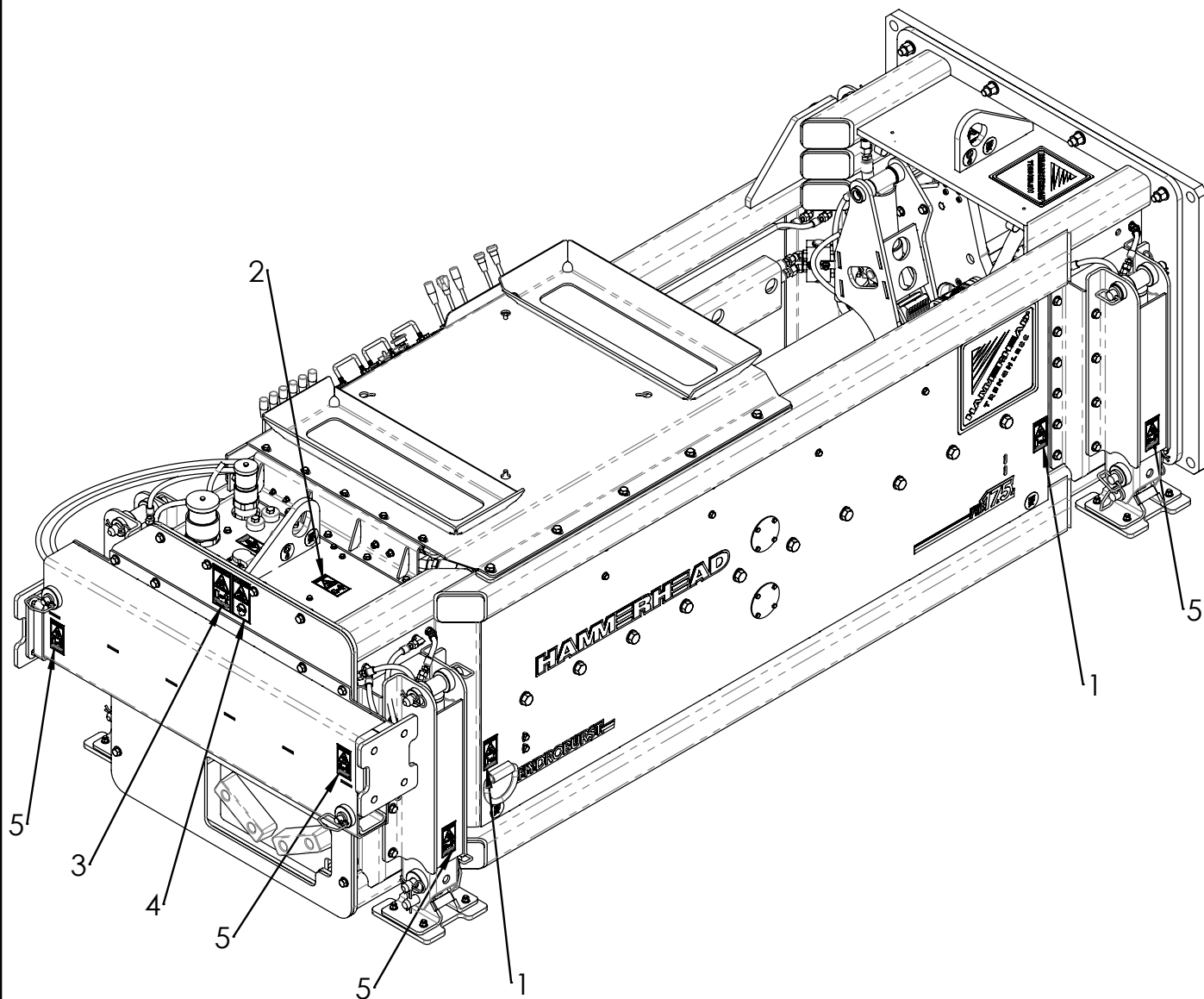
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Bom ID	Part No	Description	Qty	Remarks
1	273-475	WARNING READ OPERATOR MANUAL	1	
2	923-2202	DECAL, FOOT CRUSH	2	
3	923-2203	DECAL, HOT	1	
4	923-2204	DECAL, FALLING LOAD	2	
5	923-2205	DECAL, CRUSH HAZARD	1	
6	923-2206	DECAL, IMPACT HAZARD	1	
7	923-2207	DECAL, PINCH POINT	3	

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Footnotes:

Notes:



Decals—International

HB175

Bom ID	Part No	Description	Qty	Remarks
1	923-2202	DECAL, FOOT CRUSH	2	
2	923-2204	DECAL, FALLING LOAD	1	
3	923-2205	DECAL, CRUSH HAZARD	1	
4	923-2206	DECAL, IMPACT HAZARD	1	
5	923-2207	DECAL, PINCH POINT	4	

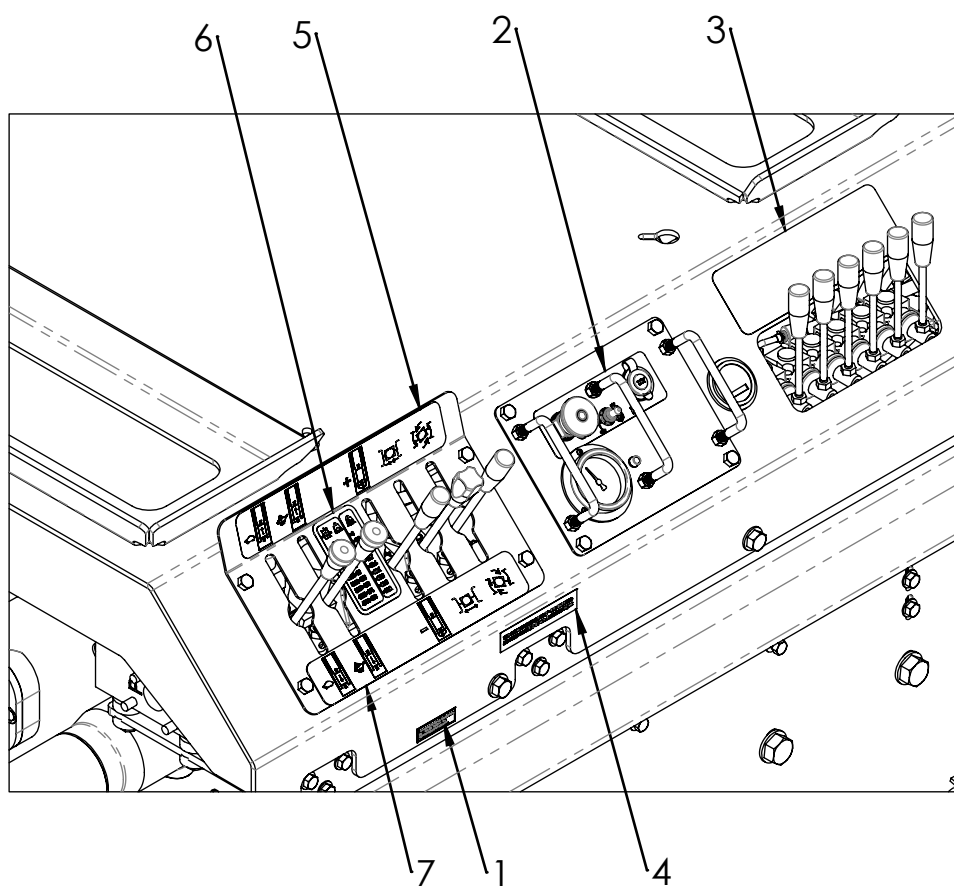
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Decals—Control Panel

HB175



Decals—Control Panel

HB175

Bom ID	Part No	Description	Qty	Remarks
1	923-2223	DECAL, OPS MANUAL REPLACEMENT	1	
2	930-3002	DECAL, CONTROL PANEL HB100	1	
3	931-3005	DECAL, STABILIZER	1	
4	931-3032	DECAL, PATENT - HB175	1	
5	931-3033	DECAL, CONTROL PANEL, TOP	1	
6	931-3035	DECAL, SYSTEM PRESSURE	1	
7	931-3036	DECAL, CONTROL PANEL, BOTTOM	1	

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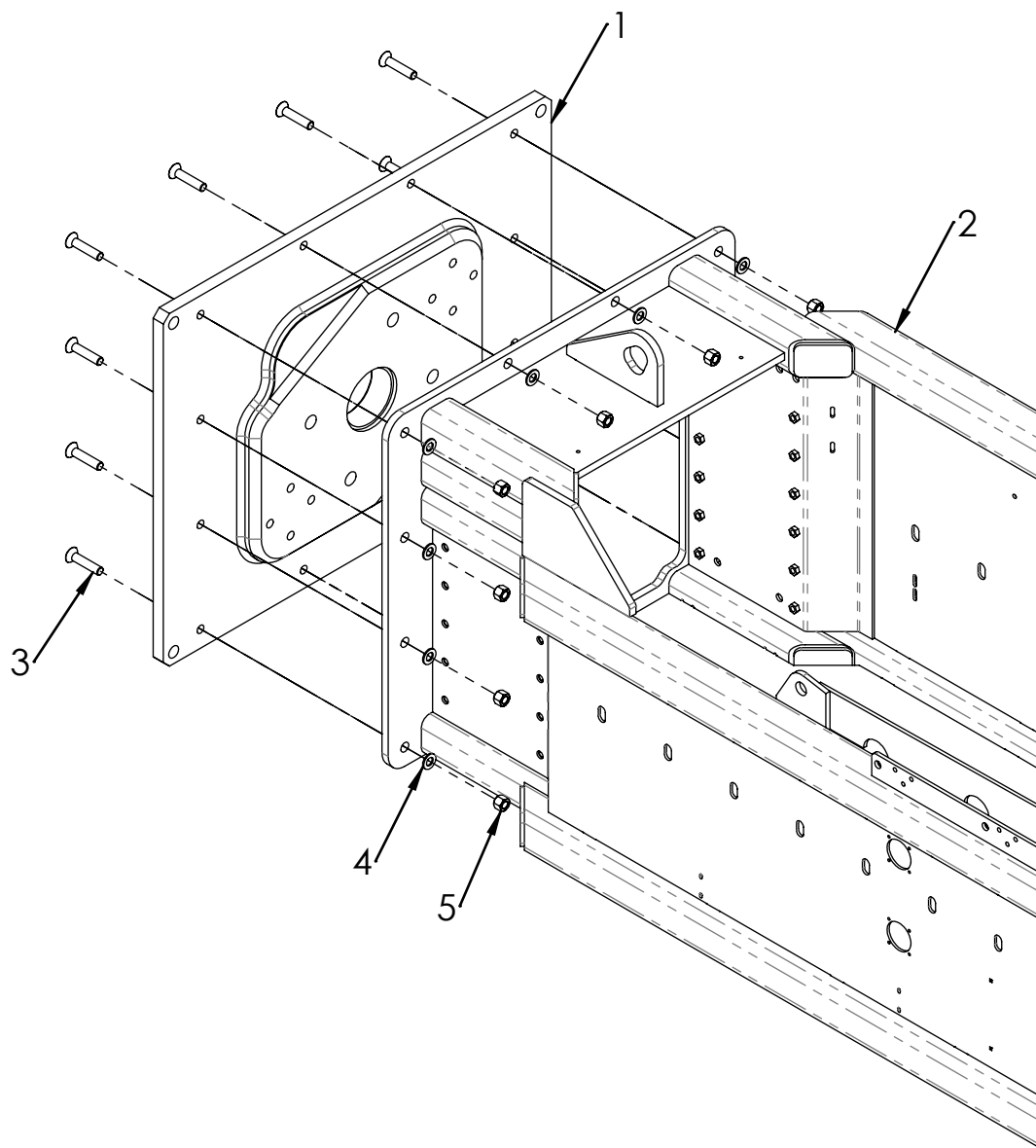
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Notes

HULL COMPONENTS

Front Plate to Hull

HB175



Front Plate to Hull

HB175

Bom ID	Part No	Description	Qty	Remarks
1	931-1077	FRONT PLATE	1	
2	931-1089	HULL (RED)	1	
3	12FH56	SCREW, 3/4-10 x 3.5 FHSC	12	
4	12FW-SAE	WASHER, 3/4"	12	
5	12TLN	NUT, 3/4-10 TOP LOCK	12	

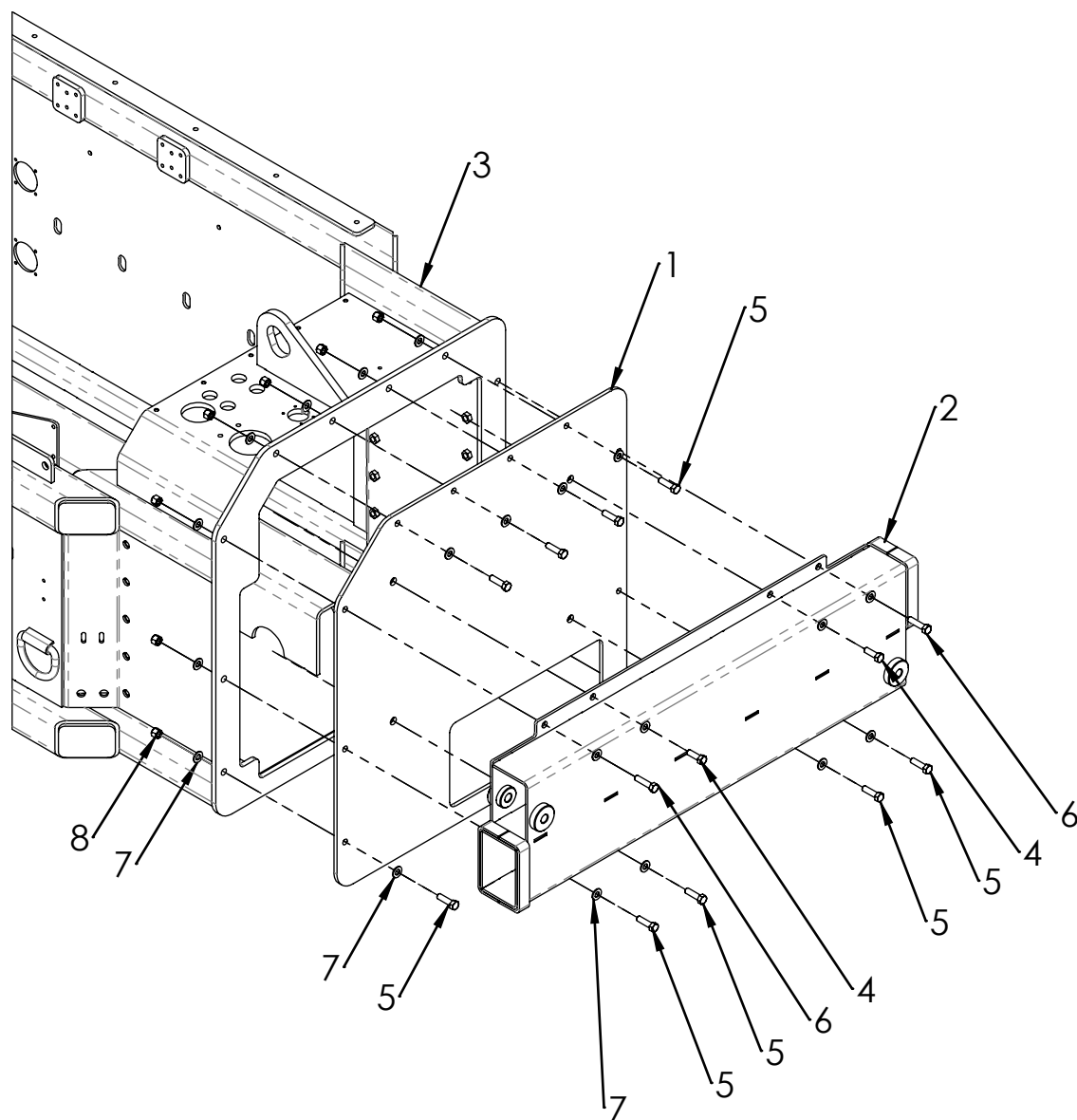
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Rear Cover & Horizontal Stabilizer to Hull

HB175



Rear Cover & Horizontal Stabilizer to Hull

HB175

Bom ID	Part No	Description	Qty	Remarks
1	931-1019	REAR COVER	1	
2	931-1020	HOUSING, HORIZONTAL STABILIZER	1	
3	931-1089	HULL (RED)	1	
4	08HH24	SCREW, 1/2-13 x 1.5 HHC - GR8	2	
5	08HH28	SCREW, 1/2-13 x 1.75 HHC - GR8	10	
6	08HH32	SCREW, 1/2-13 x 2.0 HHC - GR8	2	
7	08FW-SAE	WASHER, 1/2"	24	
8	08TLN	NUT, 1/2-13 TOP LOCK	10	

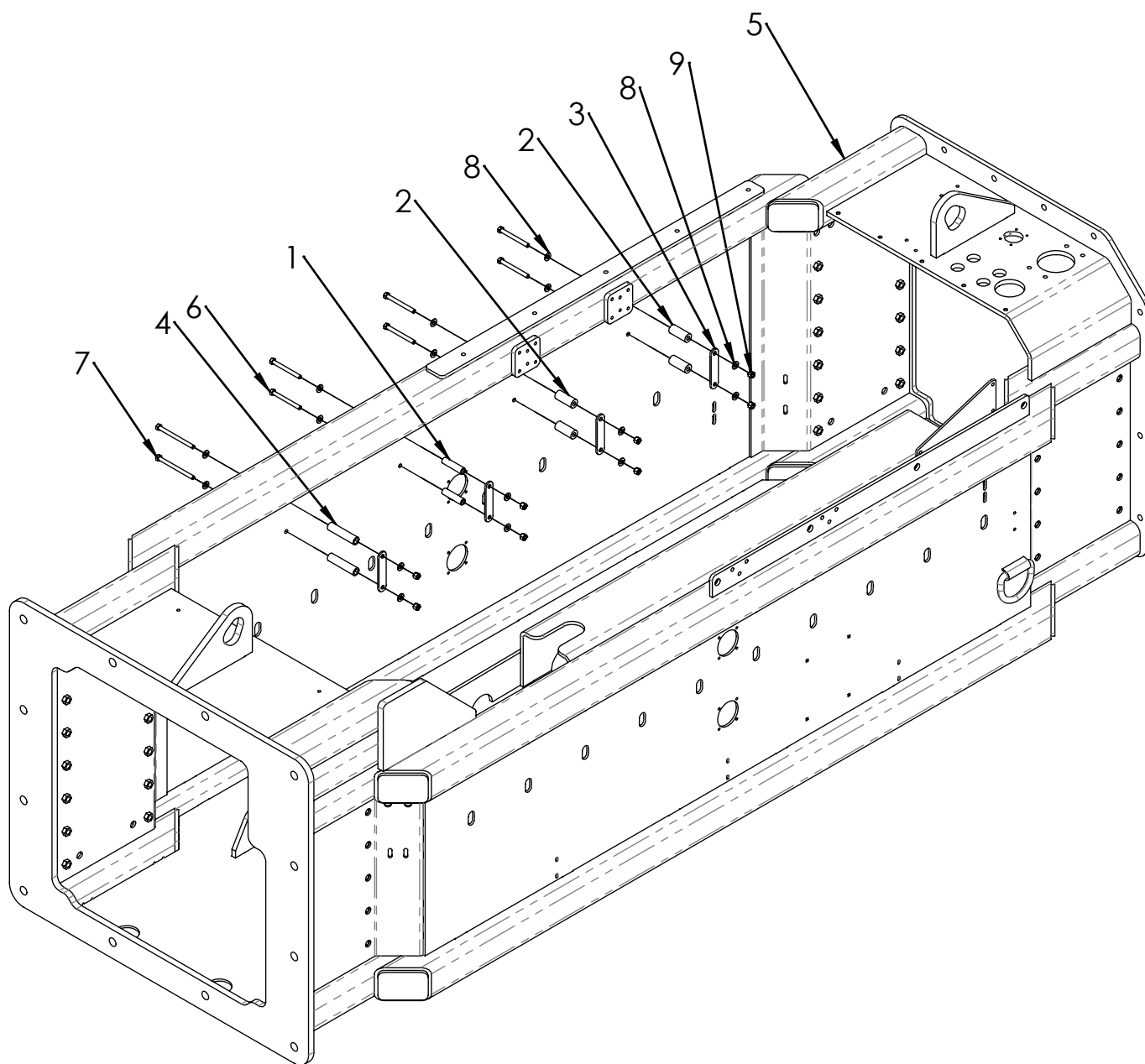
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Notes:

Hose Clamps to Hull

HB175



Hose Clamps to Hull

HB175

Bom ID	Part No	Description	Qty	Remarks
1	909-8142	SPACER 2.63"	2	
2	913-7045	SUPPORT, OIL TANK	4	
3	913-7297	PLATE, COVER 2.5"	4	
4	913-8613	SUPPORT, GRILL	2	
5	931-1089	HULL (RED)	1	
6	06HH60	SCREW, 3/8-16 x 3.75 HHC - GR8	6	
7	06HH76	SCREW, HHC 3/8-16 X 4.75 GR8	2	
8	06FW-SAE	WASHER, 3/8"	16	
9	06TLN	NUT, 3/8-16 TOP LOCK	8	

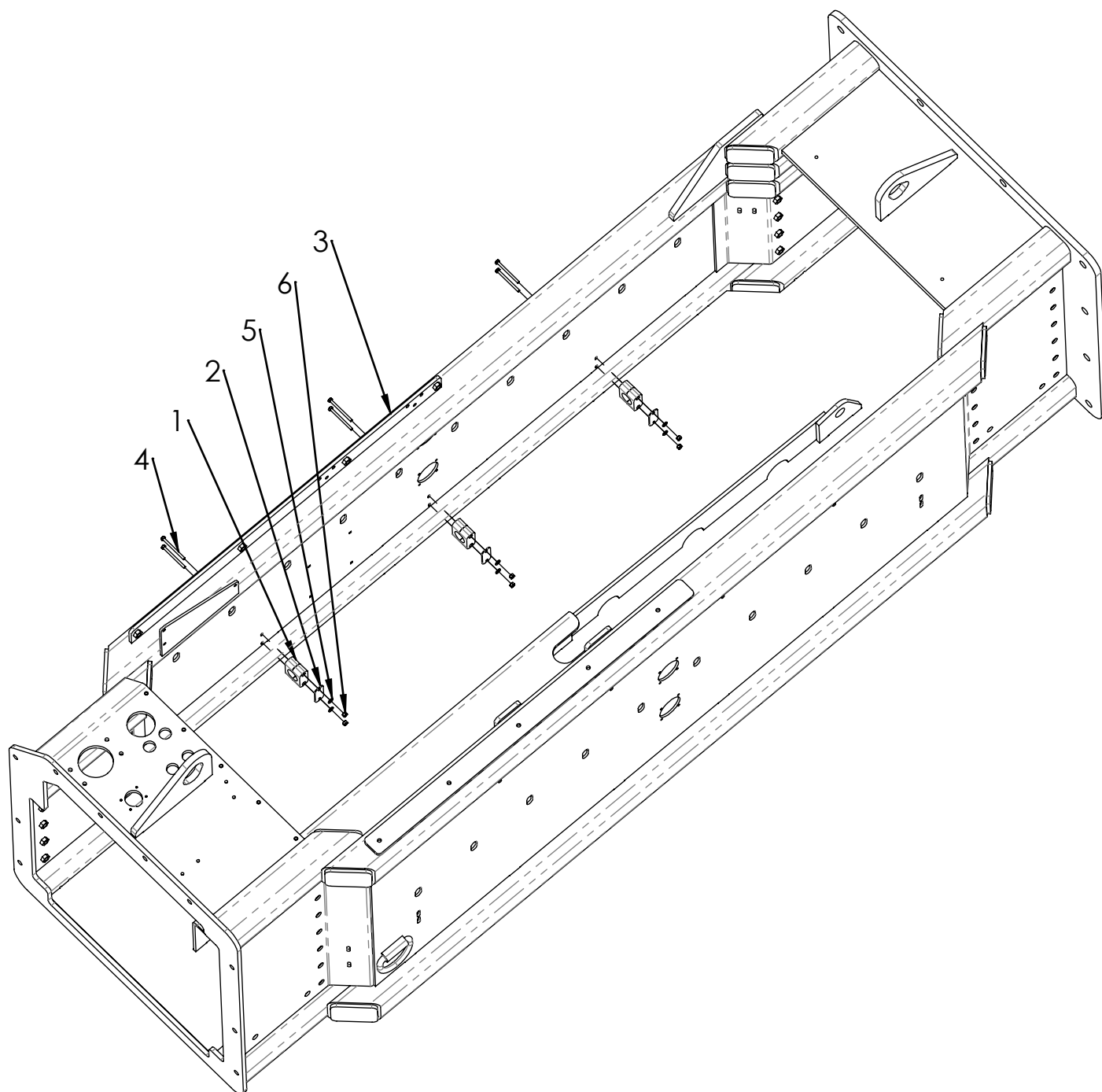
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Notes:

Hose Clamps to Hull

HB175



Hose Clamps to Hull

HB175

Bom ID	Part No	Description	Qty	Remarks
1	909-8338	CLAMP, HOSE 1-1/2"	3	
2	913-7298	PLATE, COVER, 1.5"	3	
3	931-1089	HULL (RED)	1	
4	04HH52	SCREW, 1/4-20 x 3.25 HHC - GR8	6	
5	04FW-SAE	WASHER, 1/4"	12	
6	04TLN	NUT, 1/4-20 TOP LOCK	6	

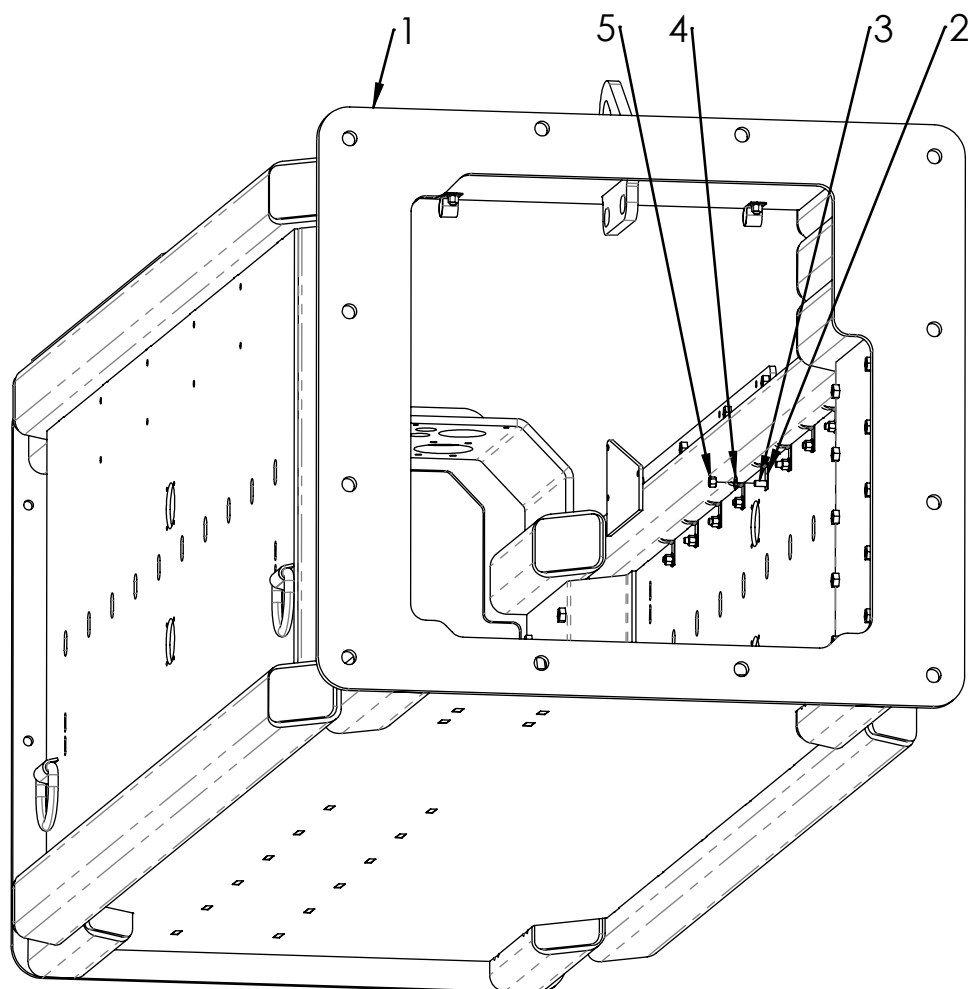
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Notes:

Vinyl Clamps to Hull

HB175



Vinyl Clamps to Hull

HB175

Bom ID	Part No	Description	Qty	Remarks
1	931-1089	HULL (RED)	1	
2	931-2018	CLAMP, 1-1/8" VINYL J-CLIP"	10	
3	6HH20	SCREW, 3/8-16 x 1.25 HHC - GR8	10	
4	06FW-SAE	WASHER, 3/8"	16	
5	06TLN	NUT, 3/8-16 TOP LOCK	8	

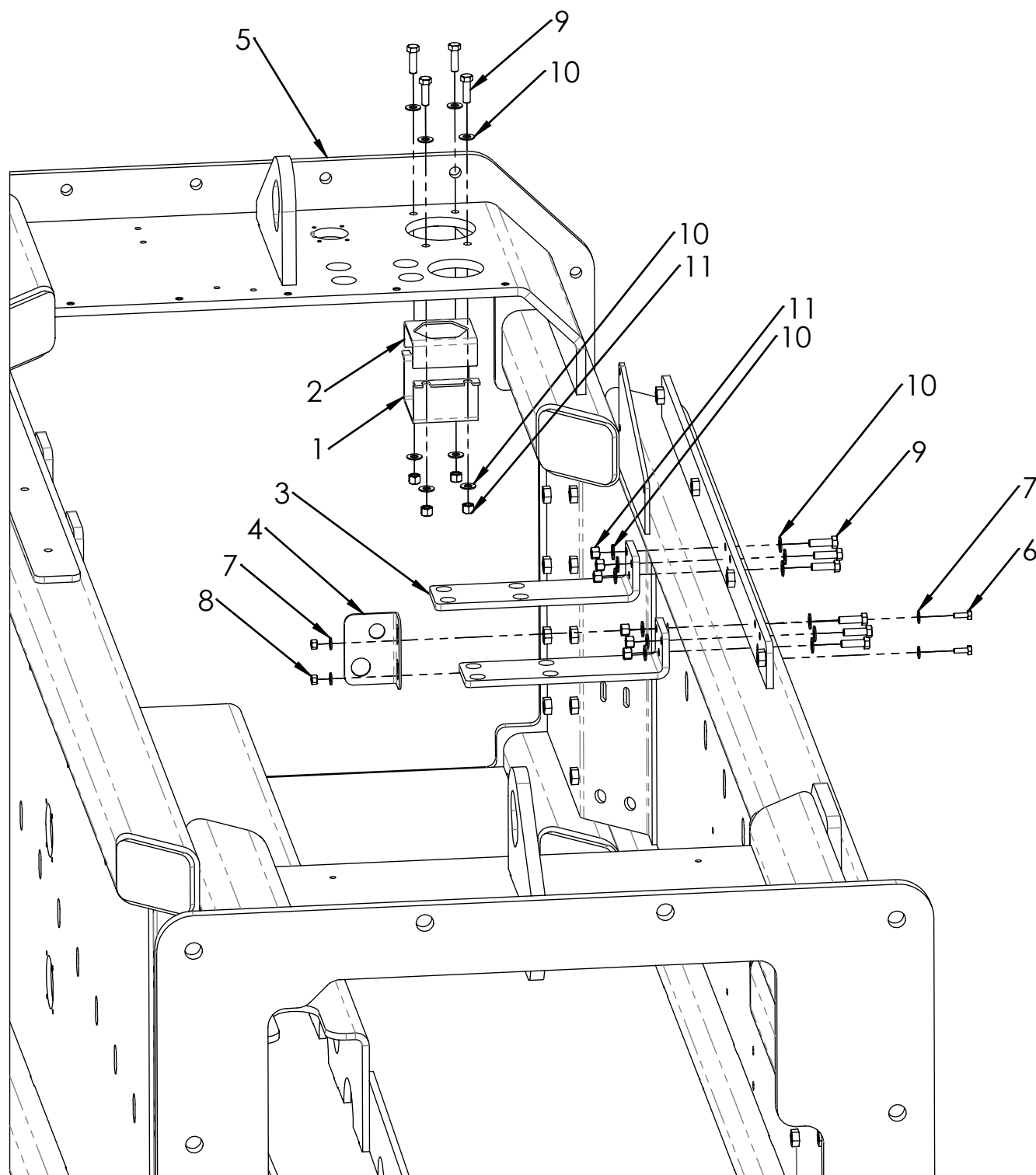
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Notes:

Brackets to Hull

HB175



Brackets to Hull

HB175

Bom ID	Part No	Description	Qty	Remarks
1	930-1035	BRACKET, QUICK COUPLER	1	
2	930-1036	LOCKING TAB	1	
3	931-1049	BRACKET, SPOOL VALVE	2	
4	931-1076	BRACKET, BULKHEAD	1	
5	931-1089	HULL (RED)	1	
6	4HH12	SCREW, 1/4-20 x .75 HHC - GR8	2	
7	04FW-SAE	WASHER, 1/4"	4	
8	04TLN	NUT, 1/4-20 TOP LOCK	2	
9	6HH20	SCREW, 3/8-16 x 1.25 HHC - GR8	10	
10	06FW-SAE	WASHER, 3/8"	20	
11	06TLN	NUT, 3/8-16 TOP LOCK	10	

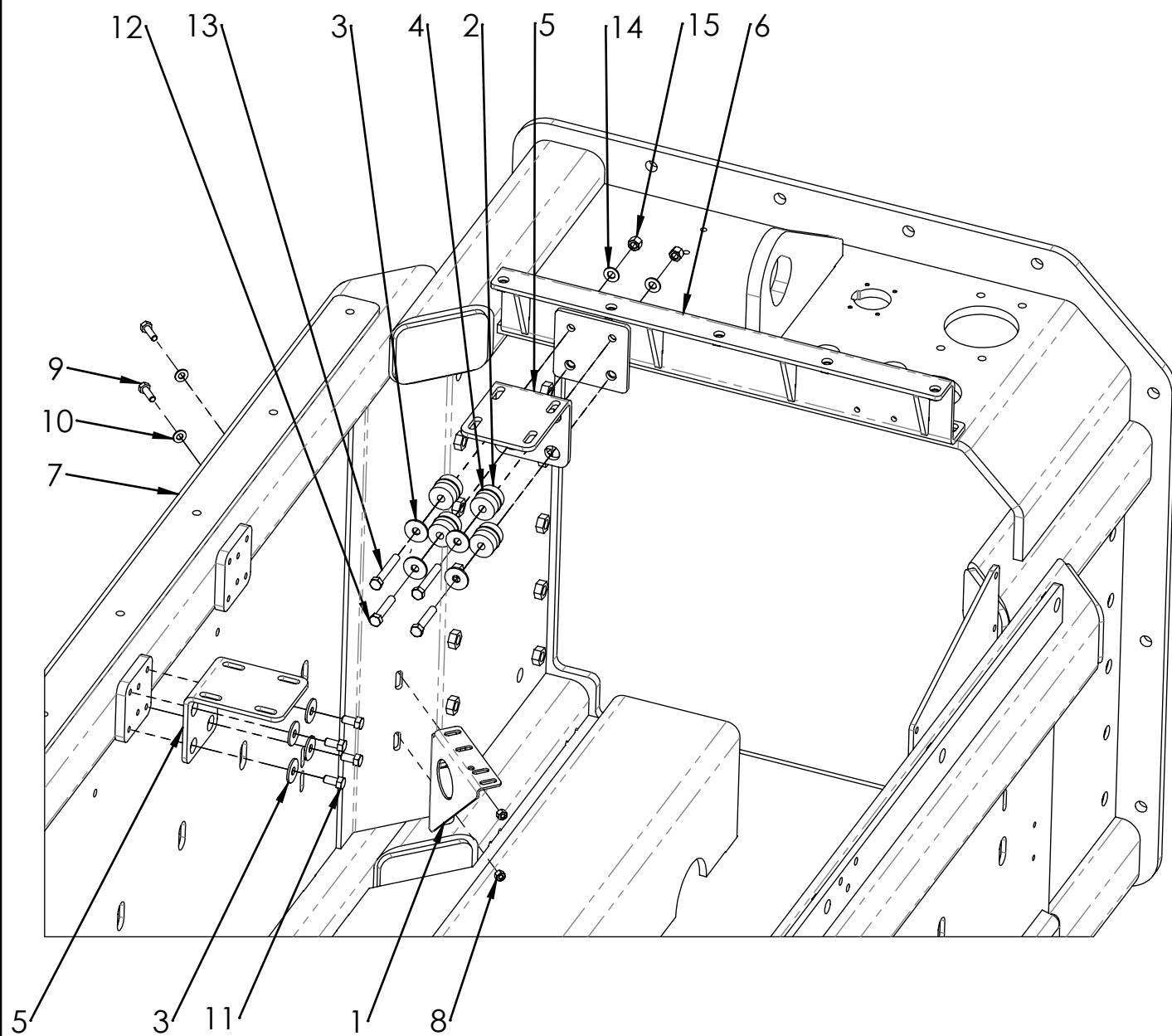
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Notes:

Brackets to Hull

HB175



Brackets to Hull

HB175

Bom ID	Part No	Description	Qty	Remarks
1	930-1020	BRACKET, SD5 SPOOL VALVE	1	
2	930-1021	ISOLATOR, 40LB	4	
3	930-1022	WASHER, FLAT 3/8" X 1.25"	8	
4	930-1023	WASHER, 7/8" X 14GA"	4	
5	930-1054	BRACKET, MANIFOLD	2	
6	931-1063	ROD TRAY, SUPPORT	1	
7	931-1089	HULL (RED)	1	
8	04TLN	NUT, 1/4-20 TOP LOCK	2	
9	04HH16	SCREW, 1/4-20 x 1.0 HHC - GR8	2	
10	04FW-SAE	WASHER, 1/4"	2	
11	06HH12	SCREW, 3/8-16 x .75 HHC - GR8	4	
12	06HH32	SCREW, 3/8-16 x 2.0 HHC - GR8	2	
13	06HH40	SCREW, 3/8-16 x 2.5 HHC - GR8	2	
14	06FW-SAE	WASHER, 3/8"	2	
15	06TLN	NUT, 3/8-16 TOP LOCK	2	

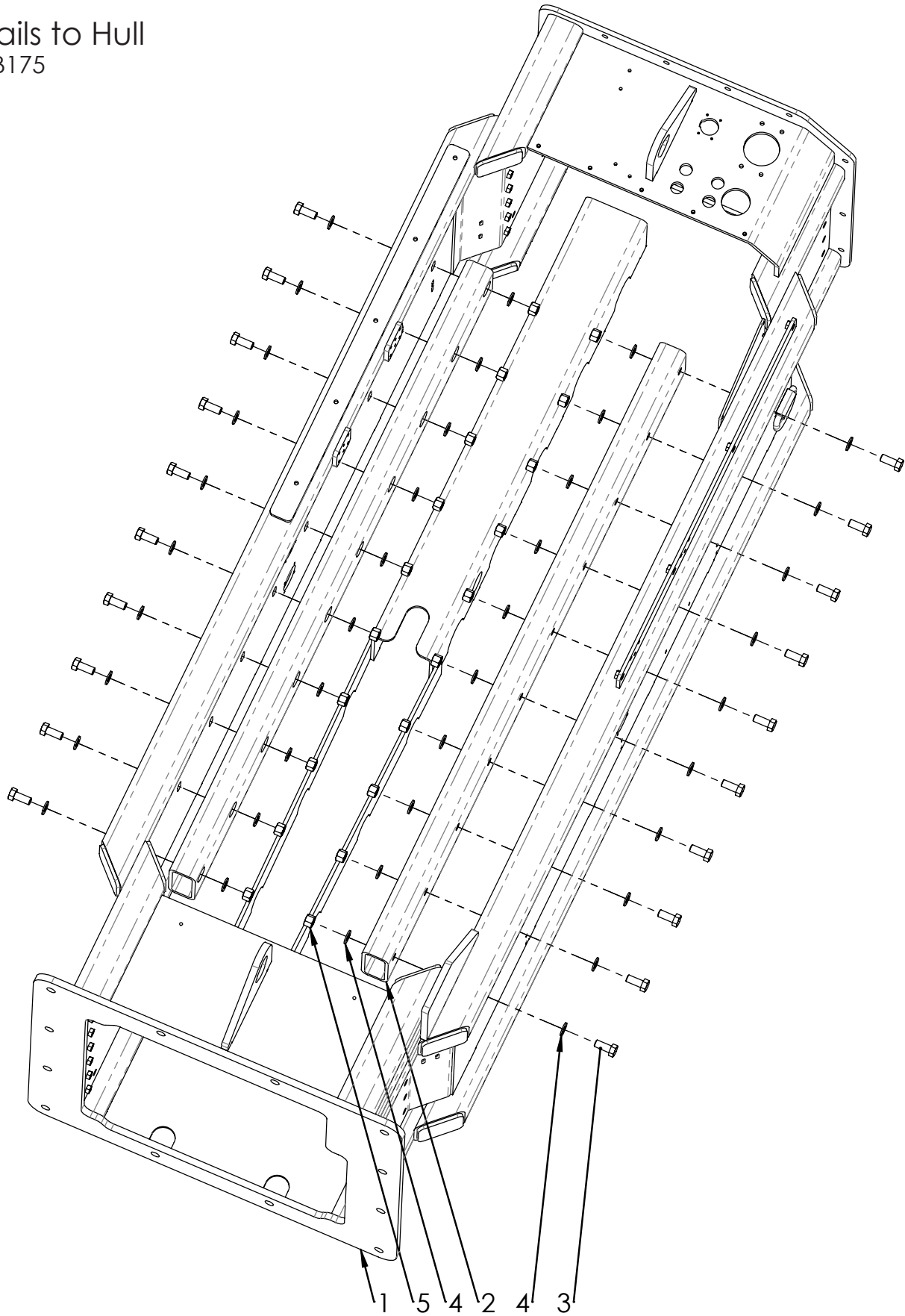
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Notes:

Rails to Hull

HB175



Rails to Hull

HB175

Bom ID	Part No	Description	Qty	Remarks
1	931-1089	HULL (RED)	1	
2	931-1037	RAIL	2	
3	12HH28	SCREW, 3/4-10 x 1.75 HHC - GR8	20	
4	12FW-SAE	WASHER, 3/4"	40	
5	12TLN	NUT, 3/4-10 TOP LOCK	20	

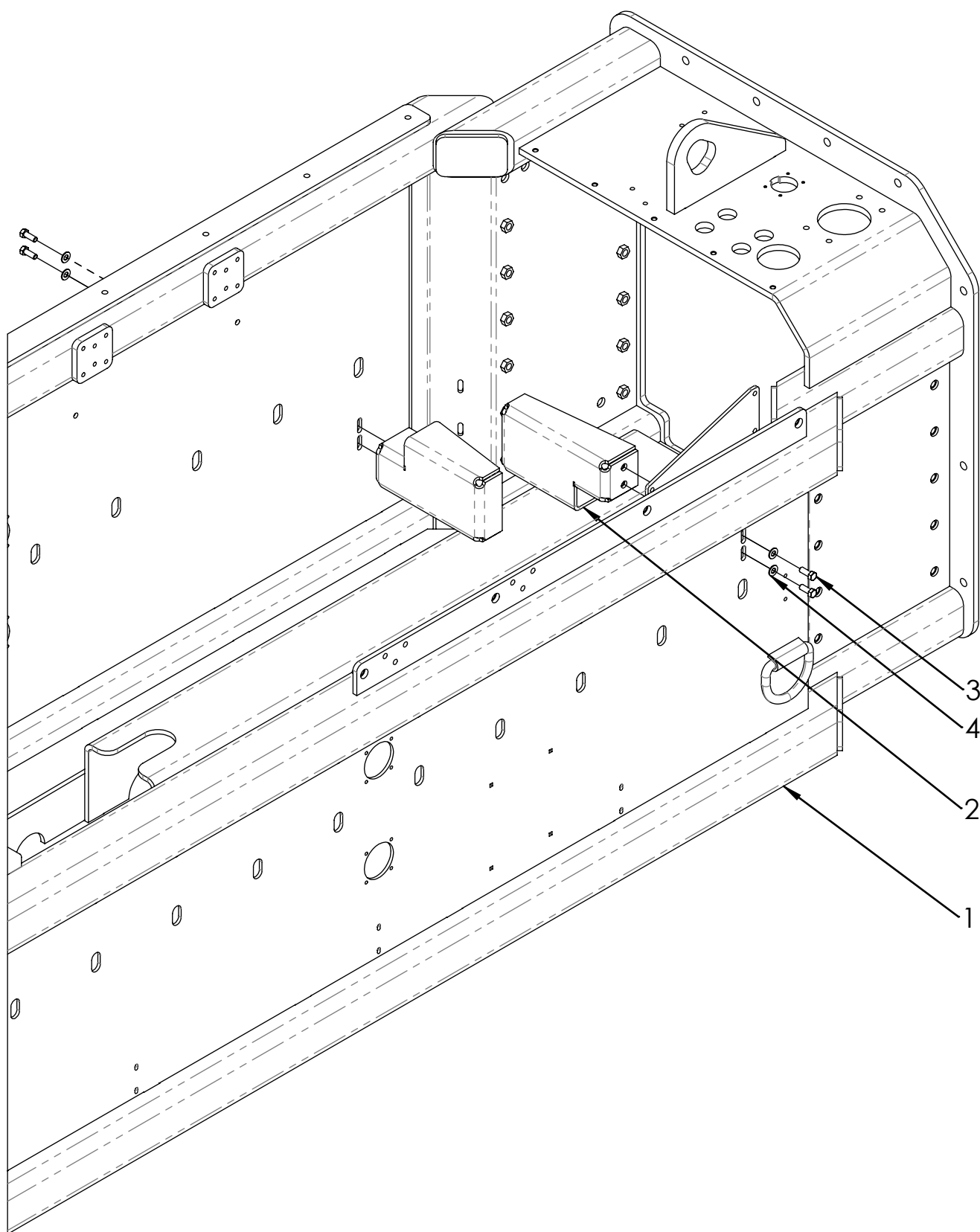
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Notes:

Rod Stop to Hull

HB175



Rod Stop to Hull

HB175

Bom ID	Part No	Description	Qty	Remarks
1	931-1089	HULL (RED)	1	
2	931-4581	STOP, ROD HOLDER	2	
3	6HH16	SCREW, 3/8-16 x 1.00 HHC - GR8	4	
4	06FW-SAE	WASHER, 3/8"	4	

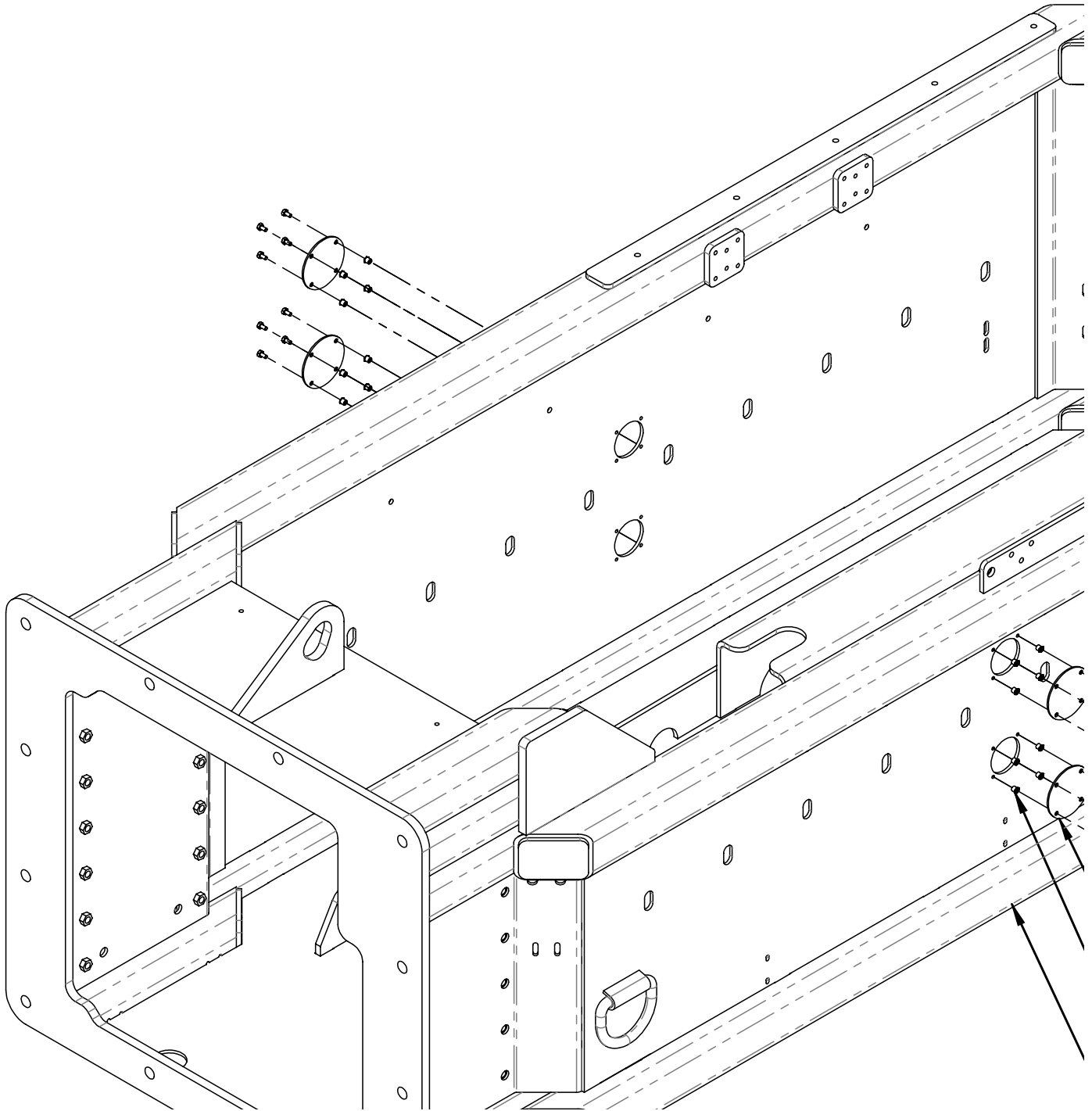
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Notes:

Roller Covers to Hull

HB175



Roller Covers to Hull

HB175

Bom ID	Part No	Description	Qty	Remarks
1	931-1084	COVER, ROLLER	4	
2	931-1085	NUT, 1/4-20FLUSH MOUNT CAPTIVE	16	
3	931-1089	HULL (RED)	1	
4	04HH08	SCREW, 1/4-20 x .50 HHC - GR8	16	

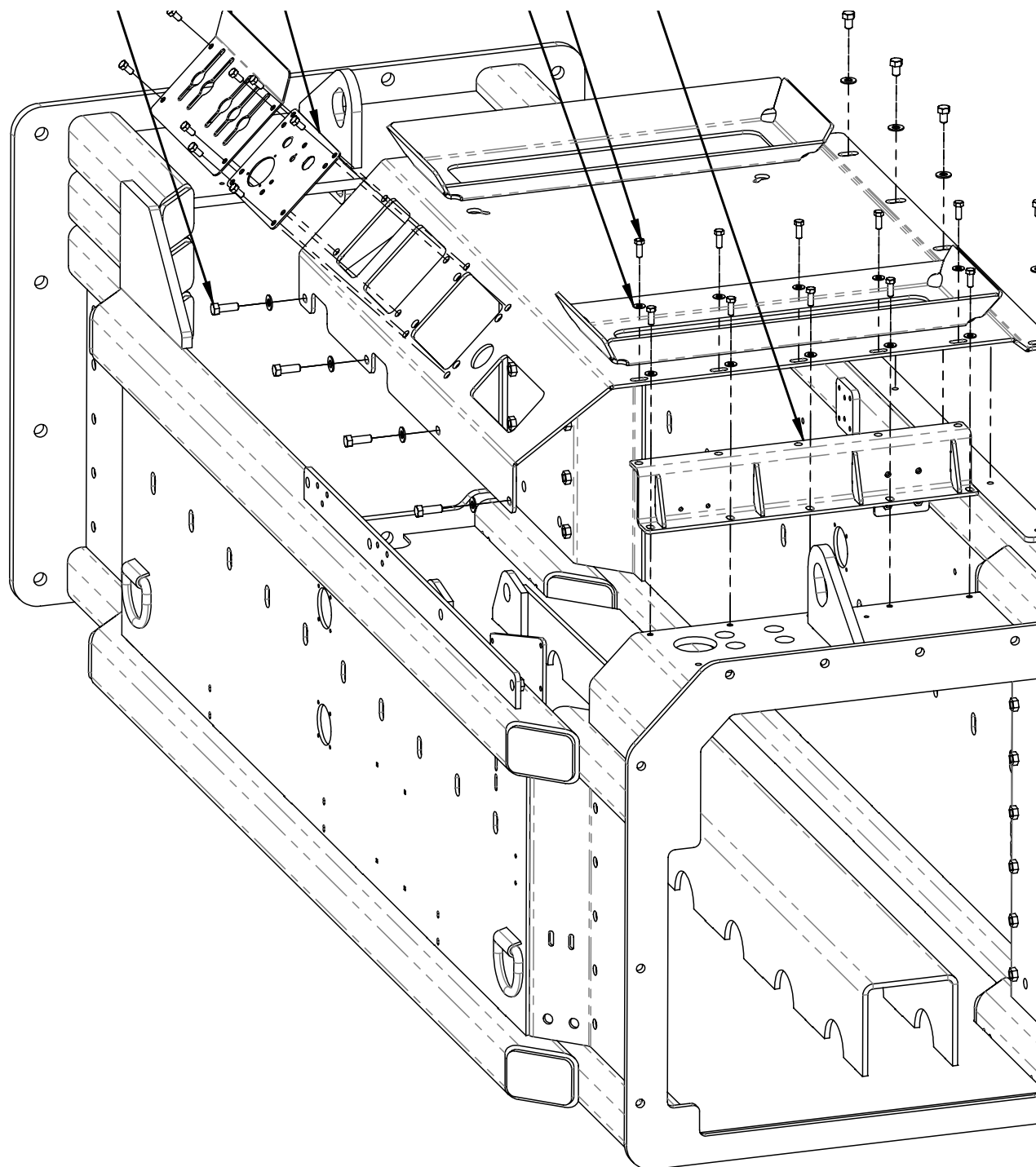
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Notes:

Control Panel and Rod Box to Hull

HB175



Control Panel and Rod Box to Hull

HB175

Bom ID	Part No	Description	Qty	Remarks
1	930-1060	CONTROL PANEL	1	
2	931-1053	WELDMENT, ROD BOX TRAY	1	
3	931-1063	ROD TRAY, SUPPORT	1	
4	931-1082	COVER, CONTROL VALVE	1	
5	931-1089	HULL (RED)	1	
6	06FW-SAE	WASHER, 3/8"	10	
7	06HH12	SCREW, 3/8-16 x .75 HHC - GR8	8	
8	6HH16	SCREW, 3/8-16 x 1.00 HHC - GR8	10	
9	08FW-SAE	WASHER, 1/2"	9	
10	08HH12	SCREW, 1/2-13 x .75 HHC - GR8	5	
11	08HH24	SCREW, 1/2-13 x 1.5 HHC - GR8	4	

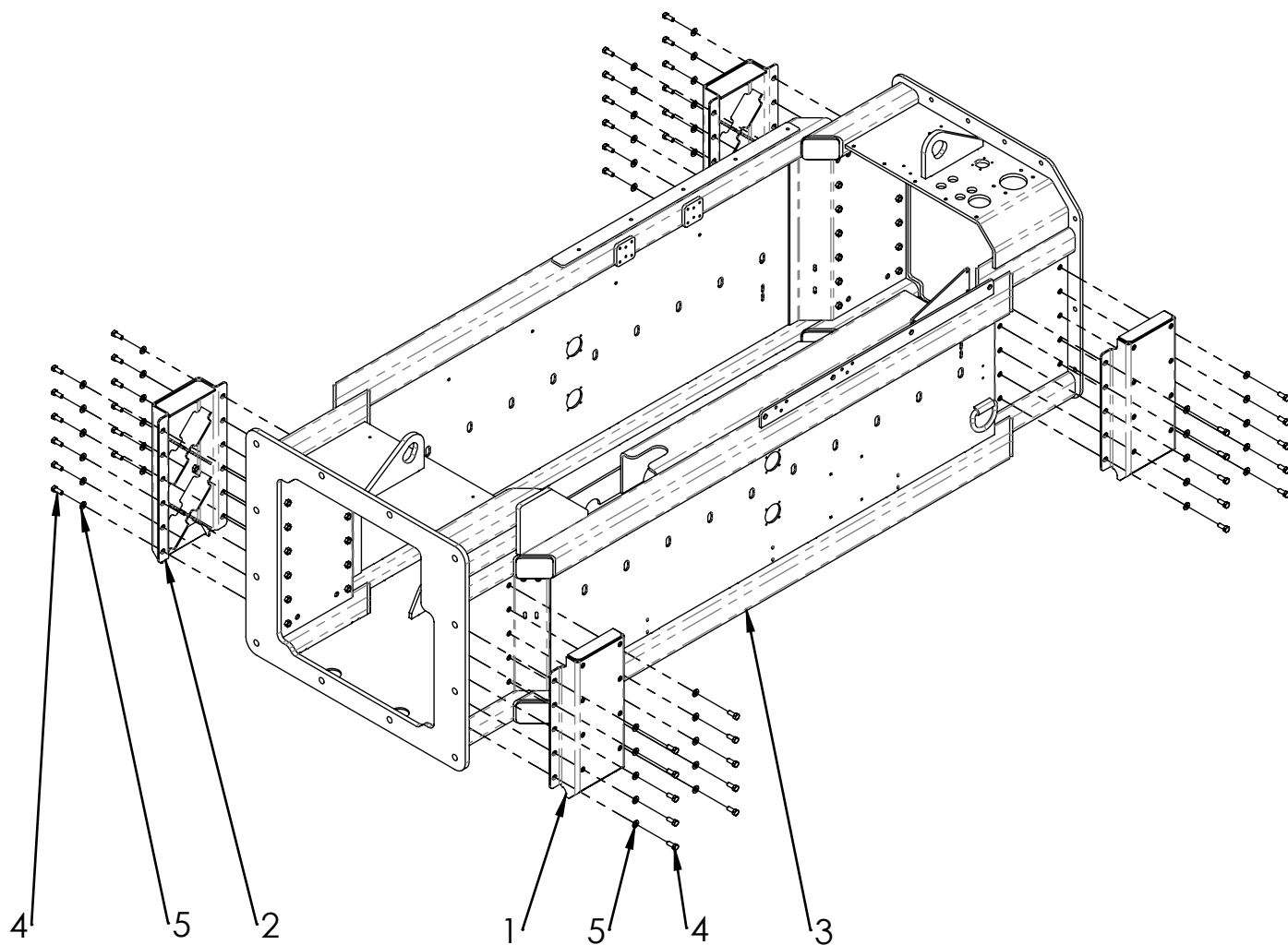
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Notes:

Stabilizer Mounts to Hull

HB175



Stabilizer Mounts to Hull

HB175

Bom ID	Part No	Description	Qty	Remarks
1	931-1029	STABILIZER MOUNT	2	
2	931-1051	STABILIZER MOUNT, RIGHT	2	
3	931-1089	HULL (RED)	1	
4	08HH20	SCREW, 1/2-13 x 1.25 HHC - GR8	44	
5	08FW-SAE	WASHER, 1/2"	44	

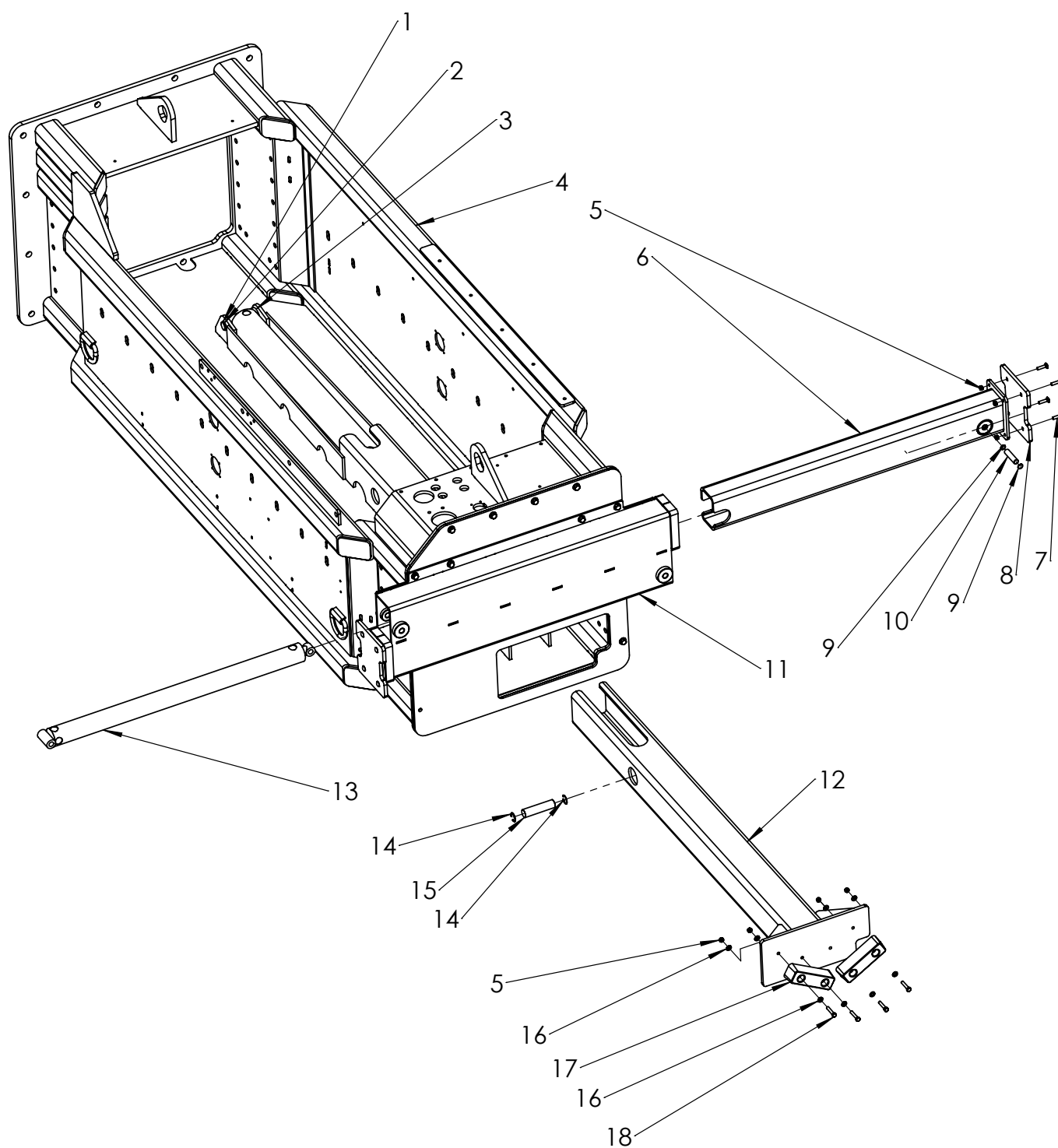
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Notes:

Stabilizers to Hull

HB175



Stabilizers to Hull

HB175

Bom ID	Part No	Description	Qty	Remarks
1	930-5588	RETAINING RING, EXT, 1.25"	2	
2	931-1047	PIN, 1.25 X 6	1	
3	931-1092	CYLINDER, 4" X 36"	1	
4	931-1089	HULL (RED)	1	
5	06HN	NUT, 3/8-16 HEX	8	
6	931-1078	LEG, SIDE STABILIZER	2	
7	06CB24	BOLT, 3/8-16 x 1.5 CARRIAGE	8	
8	912-4238	LEVELING PAD	2	
9	931-1087	RETAINING RING, Ø.75 BORE	4	
10	931-1041	PIN, .75 X 3.125	2	
11	931-1020	HOUSING, HORIZONTAL STABILIZER	1	
12	931-1038	OUTRIGGER	1	
13	931-1091	CYLINDER, 2 1/2" X 36"	2	
14	931-1093	RETAINING RING, Ø1.25 BORE	2	
15	931-1033	PIN, 1.25 X 5	1	
16	06FW-SAE	WASHER, 3/8"	6	
17	912-3728	BUMPER, RUBBER	2	
18	06HH32	SCREW, 3/8-16 x 2.0 HHC - GR8	4	

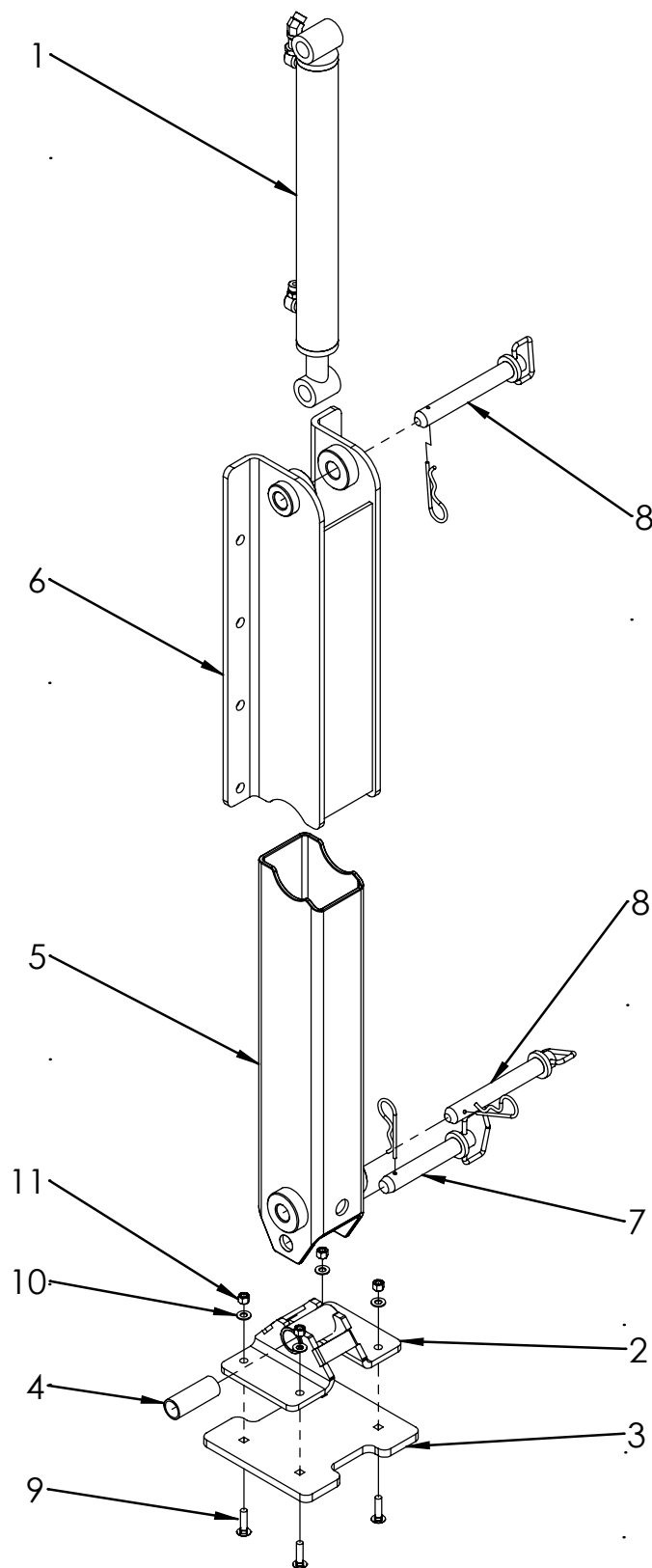
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Vertical Stabilizers

HB175



Vertical Stabilizers

HB175

Bom ID	Part No	Description	Qty	Remarks
1	930-2055	CYLINDER, 2" X 16" *N/C*	1	
2	912-4150	FOOT, STABILIZER	1	
3	912-4238	LEVELING PAD	1	
4	930-1066	SPACER, STABILIZER FOOT *N/C*	1	
5	930-1046	INNER STABILIZER LEG *N/C*	1	
6	930-1048	STABILIZER GUIDE *N/C*	1	
7	912-1100	DRAWPIN 1 X 5-3/4"	1	
8	912-4280	PIN, 1 X 7-1/4	2	
9	06CB24	BOLT, 3/8-16 x 1.5 CARRIAGE	4	
10	06FW-SAE	WASHER, 3/8"	4	
11	06TLN	NUT, 3/8-16 TOP LOCK	4	

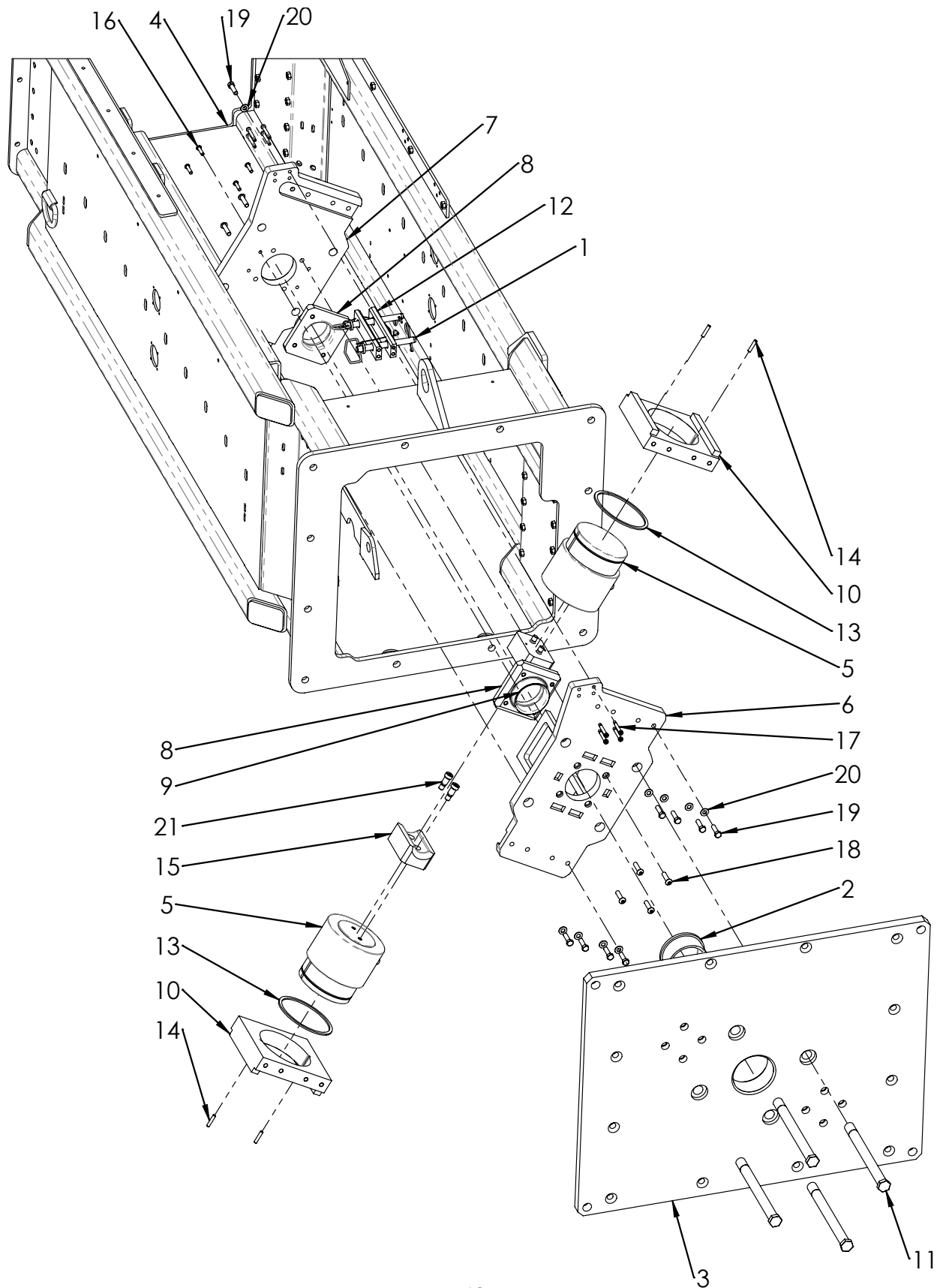
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Bungee Vise to Hull

HB175



Bungee Vise to Hull

HB175

Bom ID	Part No	Description	Qty	Remarks
1	912-2062	PIN, 3/4 x 6-1/4	2	
2	931-1066	ROD GUIDE	1	
3	931-1077	FRONT PLATE	1	
4	931-1089	HULL (RED)	1	
5	931-2001	CYLINDER, BUNGEE VISE	2	
6	931-3501	FRAME WELDMENT, BUNGEE VISE	1	
7	931-3504	PLATE, REAR	1	
8	931-3506	PLATE, BEARING	2	
9	931-3507	FUNNEL, ROD	2	
10	931-3508	SUPPORT, CYLINDER	2	
11	931-3510	BOLT, BUNGEE VISE	4	
12	931-3511	PLATE, LIFT	2	
13	931-3513	RETAINING RING, SPRIAL-Ø7.50 SHAFT	2	
14	931-3514	PIN, DOWEL - 0.375 X 1.75	4	
15	931-3515	JAW, BUNGEE-SMOOTH	2	
16	06BH24	SCREW, 3/8-16x1.5 BHSC	4	
17	06SS32	SCREW, 3/8 x 2 SHOULDER	8	
18	08BH32	SCREW, 1/2-13x2 BHSC	8	
19	08HH28	SCREW, 1/2-13 x 1.75 HHC - GR8	10	
20	08FW-SAE	WASHER, 1/2"	10	
21	12SS16	SCREW, 3/4 x 1 SHOULDER	4	

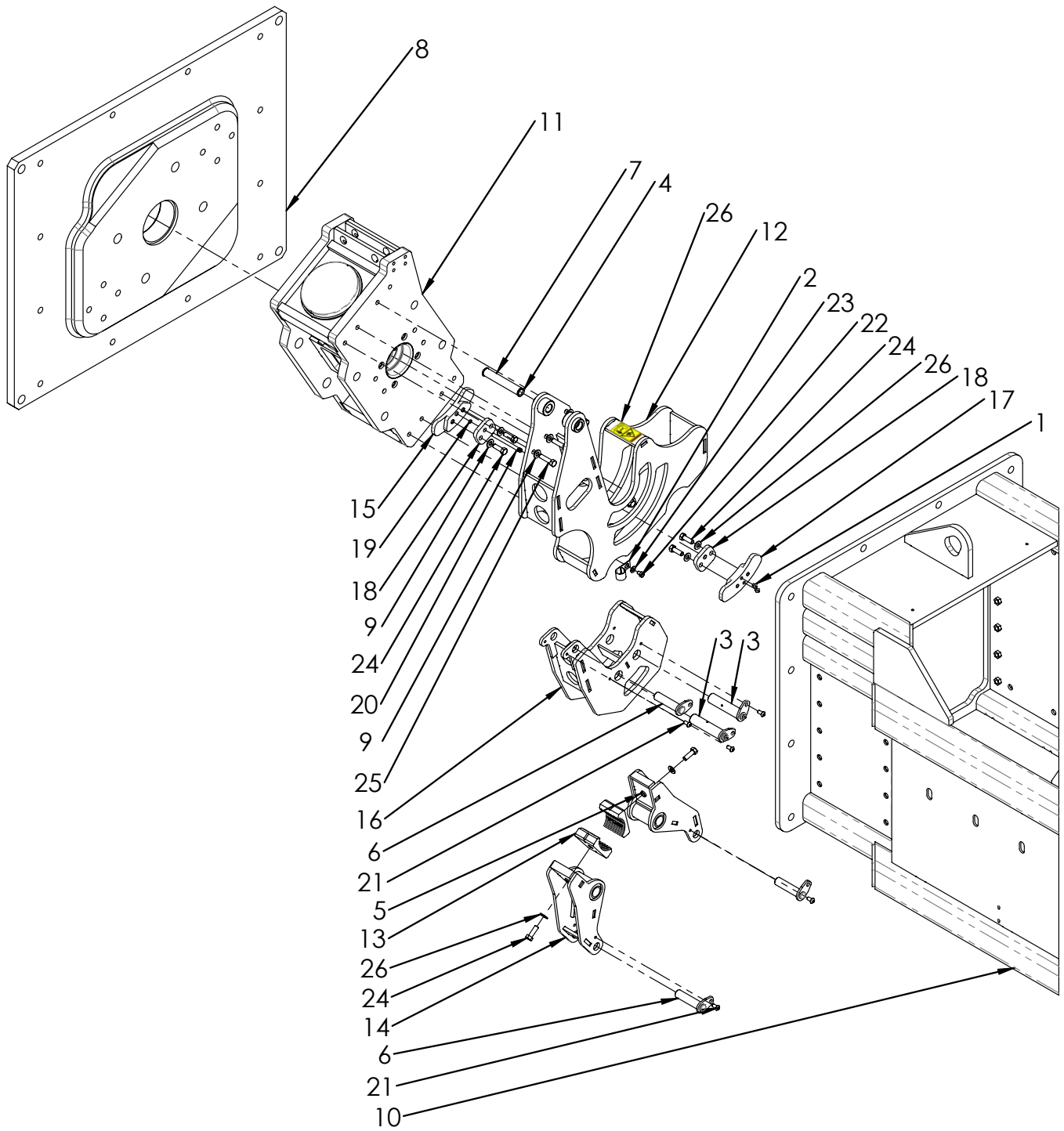
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Notes:

Breakout Vise to Hull

HB175



Breakout Vise to Hull

HB175

Bom ID	Part No	Description	Qty	Remarks
1	912-1149	FITTING, GREASE	2	
2	931-2018	CLAMP, 1-1/8" VINYL J-CLIP"	1	
3	912-4154	PIN - 1.25	2	
4	913-4220	RETAINING RING - 1.00 BORE	2	
5	913-7599	JAW ARM BUSHING	2	
6	913-7601	PIN 1.00	3	
7	913-7612	PIN, 6.0 x 1.00	1	
8	931-1077	FRONT PLATE	1	
9	08FW-SAE	WASHER, 1/2"	12	
10	931-1089	HULL (RED)	1	
11	931-3504	PLATE, REAR	1	
12	931-5500	FRAME, BREAKOUT	1	
13	931-5507	JAW INSERT, HB175	2	
14	931-5514	JAW ARM	2	
15	931-5519	REAR GUIDE PLATE	1	
16	931-5520	ARM CARRIER, WELDMENT	1	
17	931-5522	GUIDE PLATE	1	
18	931-5523	GUIDE PLATE RETAINER	2	
19	931-5525	O-RING, -012	1	
20	931-5527	PIPE NIPPLE, 1/8" - 6"	1	
21	06BH12	SCREW, 3/8-16x0.75 BHSC	5	
22	06HH08	SCREW, 3/8-16 x .50 HHC - GR8	1	
23	06FW-SAE	WASHER, 3/8"	1	
24	08HH24	SCREW, 1/2-13 x 1.5 HHC - GR8	6	
25	08HH32	SCREW, 1/2-13 x 2.0 HHC - GR8	6	
26	923-2207	DECAL, PINCH POINT	1	

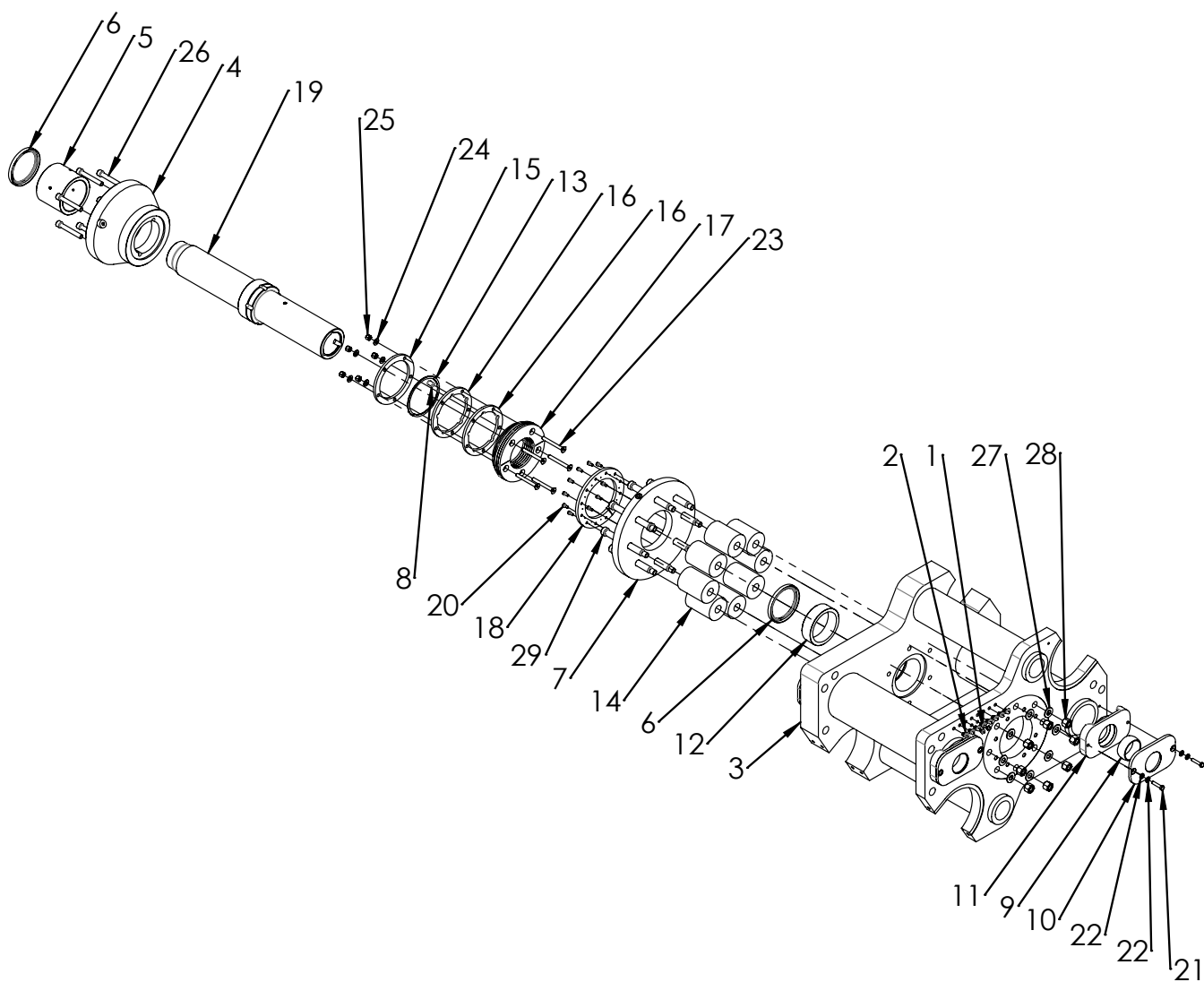
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Notes:

Spindle Frame

HB175



Spindle Frame

HB175

Bom ID	Part No	Description	Qty	Remarks
1	912-1149	FITTING, GREASE	2	
2	912-1150	FITTING, GREASE, 1/8" NPT 90 DEG.	8	
3	931-4500	FRAME, SPINDLE	1	
4	931-4534	LOAD CONE	1	
5	931-4535	BUSHING, DRIVEN SHAFT	1	
6	931-4547	SEAL, BEARING Ø4.00	2	
7	931-4564	PLATE, RESISTANCE	1	
8	931-4569	DOWEL PIN, Ø.50 X .75	5	
9	931-4587	BUSHING, ROD HOLDER	4	
10	931-4590	FRONT, ROD HOLDER	4	
11	931-4591	BACK, ROD HOLDER	4	
12	931-4597	BUSHING, DRIVEN SHAFT-REAR	1	
13	931-4621	RETAINING RING, SPRIAL-Ø5" SHAFT"	1	
14	931-4633	CUSHION, 6"	8	
15	931-4650	CLAMP RING	1	
16	931-4651	ANTI-ROTATION RING	2	
17	931-4652	SHOCK CONE ASSEMBLY	1	
18	931-4667	BEARING PAD	1	
19	931-4672	SHAFT, DRIVEN	1	
20	04SH08P	SCREW, SHC 1/4-20 X 1/2"	12	
21	05HH24	SCREW, 5/16-18 x 1.5 HHC - GR8	8	
22	05FW-SAE	WASHER, 5/16"	8	
23	06FH56	SCREW, 3/8-16 x 3.5 FHSC	5	
24	06FW-SAE	WASHER, 3/8"	5	
25	06TLN	NUT, 3/8-16 TOP LOCK	5	
26	08SH56	SCREW, 1/2-13 x 3.5" SHC	6	
27	10FW-SAE	WASHER, 5/8"	8	
28	10TLN	NUT, 5/8-11 TOP LOCK	8	
29	12SS96	SCREW, 3/4 x 6 SHOULDER	8	

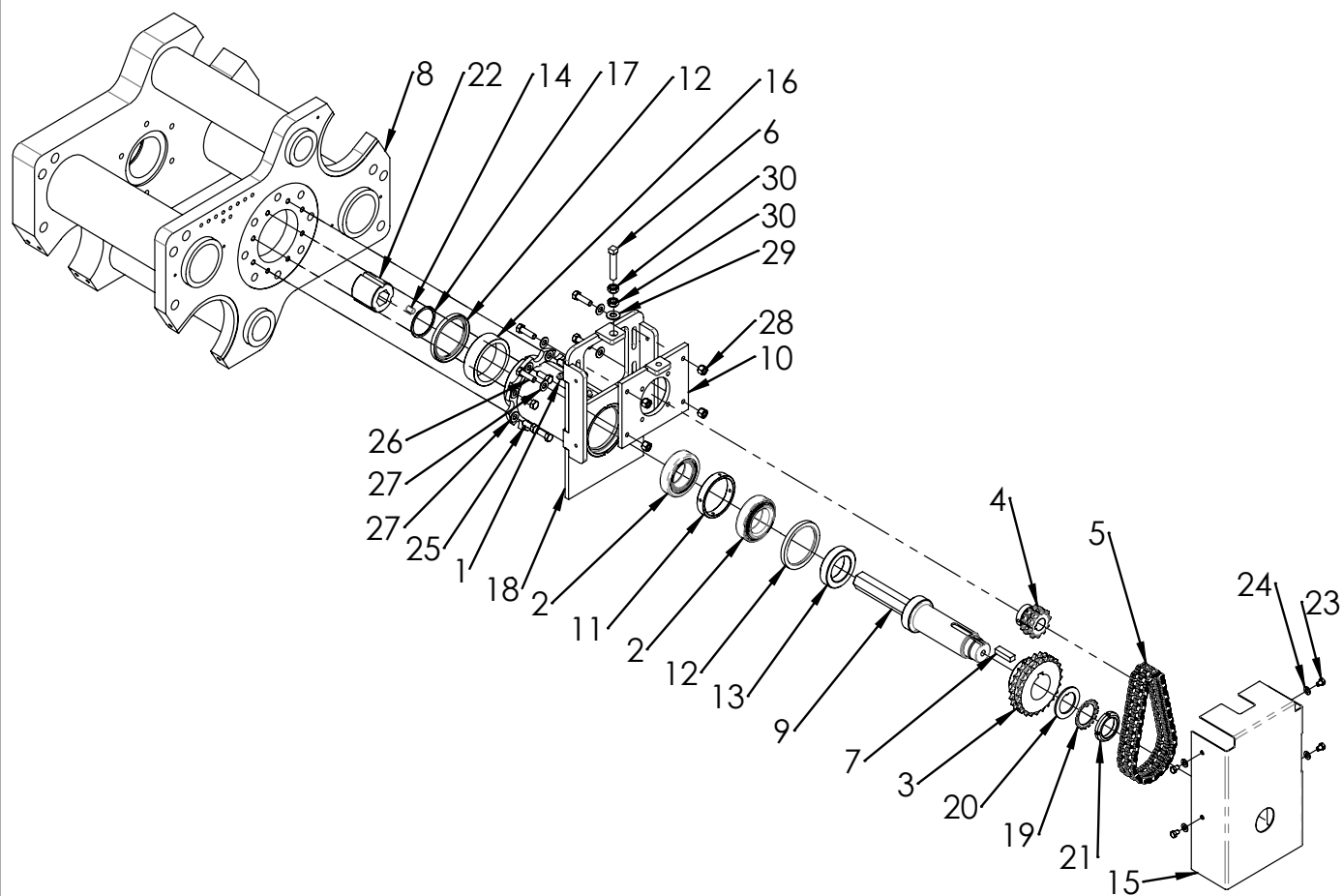
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Spindle Drive Frame to Spindle Frame

HB175



Spindle Drive Frame to Spindle Frame

HB175

Bom ID	Part No	Description	Qty	Remarks
1	912-1150	FITTING, GREASE, 1/8" NPT 90 DEG.	2	
2	913-7498	SPINDLE THRUST BEARING ASSY	2	
3	913-7509	SPROCKET, 24 TOOTH	1	
4	913-7547	SPROCKET, 11 TOOTH	1	
5	913-7548	DRIVE CHAIN	1	
6	913-7565	SET SCREW SQ HD 5/8-11 x 3"	1	
7	913-7930	KEY WAY, 5/8 X 7/16	1	
8	931-4500	FRAME, SPINDLE	1	
9	931-4526	SHAFT, DRIVE	1	
10	931-4531	MOTOR MOUNT, REEL DRIVE, HB 175	1	
11	931-4543	SPACER, BEARING	1	
12	931-4547	SEAL, BEARING Ø4.00	2	
13	931-4565	SPACER, SPROKET	1	
14	931-4569	DOWEL PIN, Ø.50 X .75	1	
15	931-4594	CHAIN GUARD	1	
16	931-4597	BUSHING, DRIVEN SHAFT-REAR	1	
17	931-4601	RETAINING RING, SPIRAL Ø3.00 BORE	1	
18	931-4615	BEARING TUBE WELDMENT	1	
19	931-4668	LOCKWASHER	1	
20	931-4669	WASHER, TONGUED	1	
21	931-4671	LOCKNUT	1	
22	931-4673	BUSHING, DRIVEN SHAFT	1	
23	06HH08	SCREW, 3/8-16 x .50 HHC - GR8	4	
24	06FW-SAE	WASHER, 3/8"	4	
25	08HH20	SCREW, 1/2-13 x 1.25 HHC - GR8	8	
26	08HH28	SCREW, 1/2-13 x 1.75 HHC - GR8	4	
27	08FW-SAE	WASHER, 1/2"	12	
28	08TLN	NUT, 1/2-13 TOP LOCK	4	
29	10FW-SAE	WASHER, 5/8"	1	
30	10HJN	NUT, 5/8-11 HEX JAM	2	

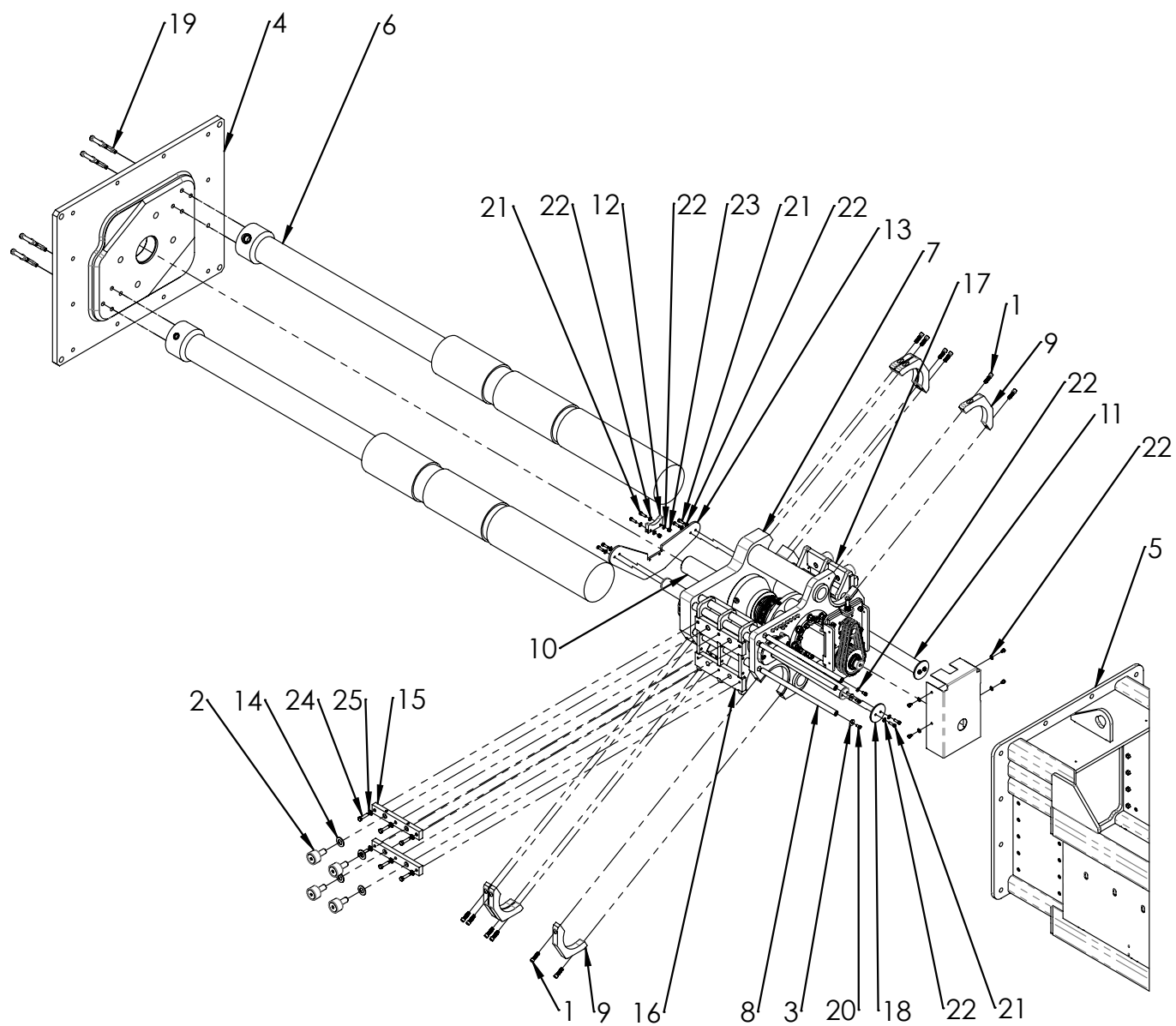
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Spindle to Hull

HB175



Spindle to Hull

HB175

Bom ID	Part No	Description	Qty	Remarks
1	908-0112	SCREW, 1/2-13 X 1.75"SHC"	12	
2	913-7516	ROLLER	8	
3	930-1022	WASHER, FLAT 3/8" X 1.25"	10	
4	931-1077	FRONT PLATE	1	
5	931-1089	HULL (RED)	1	
6	931-2002	CYLINDER, MAIN	2	
7	931-4500	FRAME, SPINDLE	1	
8	931-4518	ROD, CARRIER	6	
9	931-4521	CLAMP, PUSH/PULL CYLINDER	6	
10	931-4566	SUB-SAVER, HB175	1	
11	931-4582	TUBE, ROD HOLDER	2	
12	931-4588	WEAR PAD, ROD HOLDER	1	
13	931-4592	FRONT PLATE, ROD HOLDER	1	
14	16FW-SAE	WASHER, 1"	8	
15	931-4605	PLATE, SPACER	4	
16	931-4608	WELDMENT, ROLLER SUPPORT - OP SIDE	1	
17	931-4609	WELDMENT, ROLLER SUPPORT, RIGHT	1	
18	931-4630	STOP, TUBE	2	
19	12SS48	SCREW, 3/4 x 3 SHOULDER	8	
20	06HH12	SCREW, 3/8-16 x .75 HHC - GR8	12	
21	6HH20	SCREW, 3/8-16 x 1.25 HHC - GR8	10	
22	06FW-SAE	WASHER, 3/8"	14	
23	06TLN	NUT, 3/8-16 TOP LOCK	2	
24	08HH32	SCREW, 1/2-13 x 2.0 HHC - GR8	12	
25	08FW-SAE	WASHER, 1/2"	12	

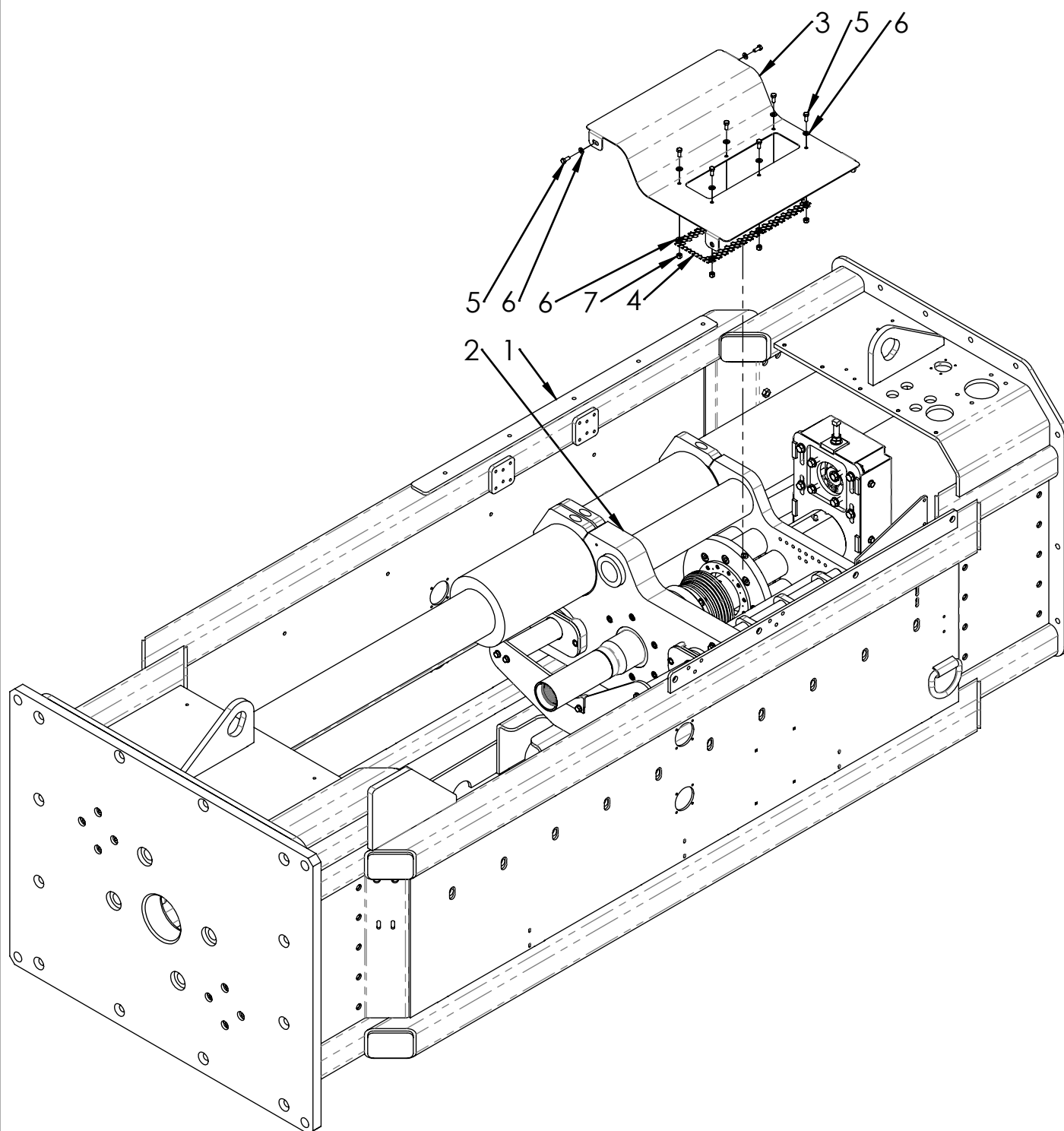
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Spindle Cover to Spindle Frame

HB175



Spindle Cover to Spindle Frame

HB175

Bom ID	Part No	Description	Qty	Remarks
1	931-1089	HULL (RED)	1	
2	931-4500	FRAME, SPINDLE	1	
3	931-4575	COVER, SPINDLE	1	
4	931-4593	WINDOW, SPINDLE COVER	1	
5	05HH12	SCREW, 5/16-18 x .75 HHC - GR8	8	
6	05FW-SAE	WASHER, 5/16"	14	
7	05TLN	NUT, 5/16-18 TOP LOCK	6	

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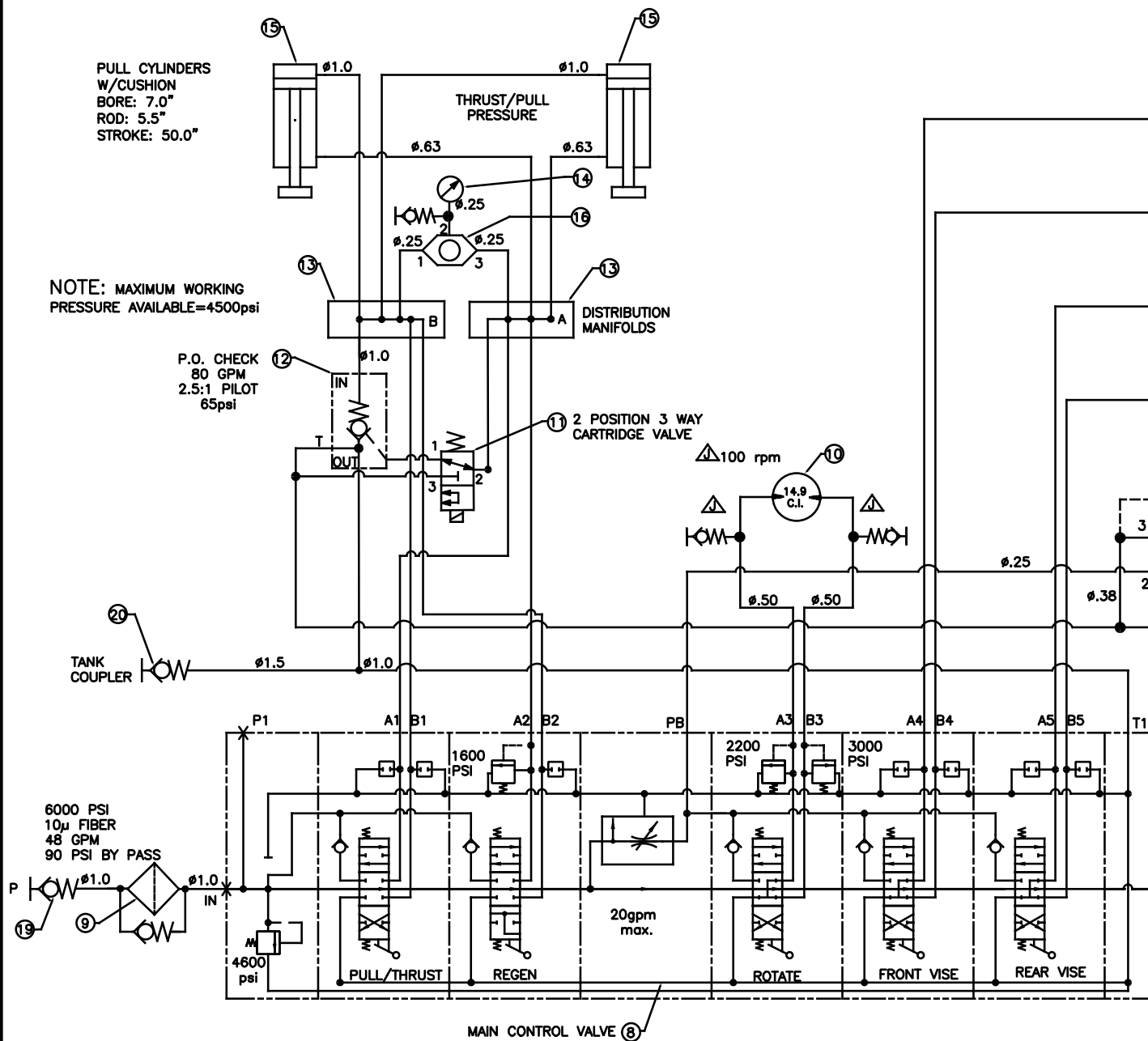
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HYDRAULICS

Hydraulic Schematic

HB175



HB175



Hydraulic Schematic

HB175

Bom ID	Part No	Description	Qty	Remarks
1	930-2032	VALVE, DUAL 16GPM P.O. CHECK	2	
2	913-9850	VALVE, SEQUENCE	1	
3	913-7600	CYLINDER, 2.50 X 3.50	2	
4	931-1092	CYLINDER, 4.00 X 36.00	1	
5	930-2055	CYLINDER, 2.00 X 16.00	4	
6	933-1091	CYLINDER, 2.50 X 36.00	2	
7	931-2010	VALVE, STABILIZER — 6 SPOOL	1	
8	931-2005	VALVE, CONTROL	1	
9	913-8695	FILTER ASSEMBLY — HP	1	
10	912-3674	MOTOR, HYDRAULIC, 14.9 C.I.	1	
11	931-2009	VALVE, 2 POS, 3 WAY	1	
12	930-2001	CHECK VALVE, P.O. 80 GPM	1	
13	930-2011	MANIFOLD	2	
14	930-2059	PRESSURE GAUGE, 5000 PSI	1	
15	931-2002	CYLINDER, MAIN	2	
16	930-2050	SHUTTLE VALVE ASSEMBLY	1	
17	930-2039	VALVE, P.O. PRESSURE REDUCING	1	
18	931-2001	CYLINDER, BUNGEE VISE	1	
19	930-2005	COUPLER, FEMALE CONNECT, 1 1/4" ORB	2	
20	930-2004	COUPLER, FEMALE 1 1/2" ORG	1	
21	926-7603	ORIFICE, FIXED, ø.050"	1	

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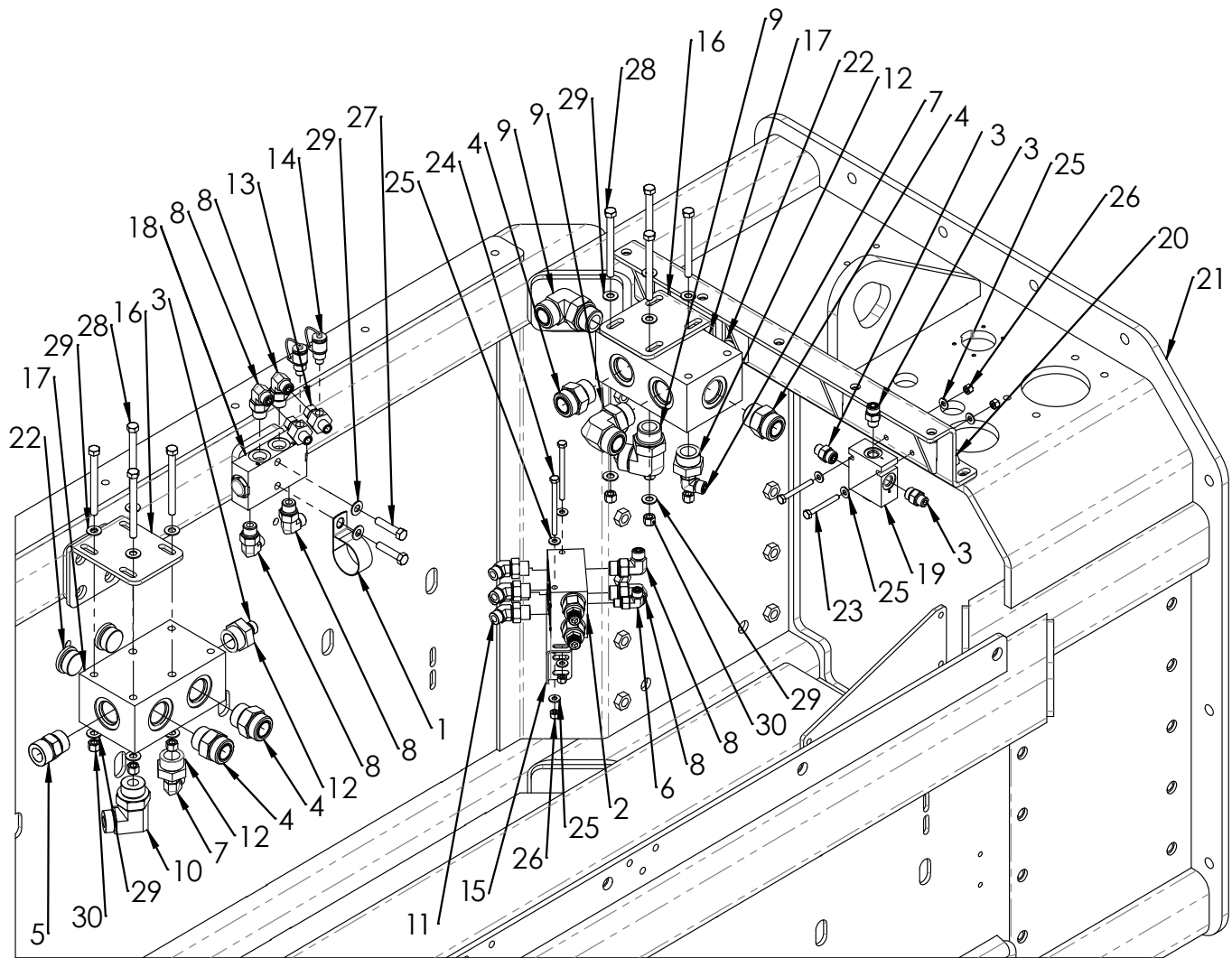
Hydraulic Schematic

HB175

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Hydraulic Valves

HB175



Hydraulic Valves

HB175

Bom ID	Part No	Description	Qty	Remarks
1	931-2018	CLAMP, 1-1/8" VINYL J-CLIP"	1	
2	913-9850	VALVE, DUAL SEQUENCE	1	
3	926-2203	ADAPTER, 6MO X 6 MB	4	
4	926-2216	ADAPTER, 16MO X 16MB	4	
5	926-2229	ADAPTER, 12MO x 16MB	1	
6	926-2300	ELBOW, 4MO X 4MB 90°	1	
7	926-2304	ELBOW, 6MO X 6MB 90°	2	
8	926-2305	ELBOW, 6MO X 8MB 90°	6	
9	926-2315	ELBOW, 16MO X 16MB 90°	3	
10	926-2324	ELBOW, 12MO X 16MB 90°	1	
11	926-3604	ELBOW, 06MO X 08MB 45°	4	
12	926-3828	REDUCER, 16MB X 06FB	3	
13	926-6601	GAUGE PORT, 06MO X 06FO	2	
14	926-7504	TEST PORT COUPLING	2	
15	930-1020	BRACKET, SD5 SPOOL VALVE	1	
16	930-1054	BRACKET, MANIFOLD	2	
17	930-2011	MANIFOLD	2	
18	930-2032	VALVE, DUAL 16GPM P.O. CHECK	1	
19	930-2050	SHUTTLE VALVE ASSEMBLY	1	
20	931-1063	ROD TRAY, SUPPORT	1	
21	931-1089	HULL (RED)	1	
22	926-5505	PLUG, 16MB HOLLOW HEX	4	
23	04HH36	SCREW, 1/4-20 x 2.25 HHC - GR8	2	
24	04HH56	SCREW, 1/4-20 x 3.5 HHC - GR8	2	
25	04FW-SAE	WASHER, 1/4"	8	
26	04TLN	NUT, 1/4-20 TOP LOCK	4	
27	6HH28	SCREW, 3/8-16 x 1.75 HHC - GR8	2	
28	06HH64	SCREW, 3/8-16 x 4.0 HHC - GR8	8	
29	06FW-SAE	WASHER, 3/8"	18	
30	06TLN	NUT, 3/8-16 TOP LOCK	8	

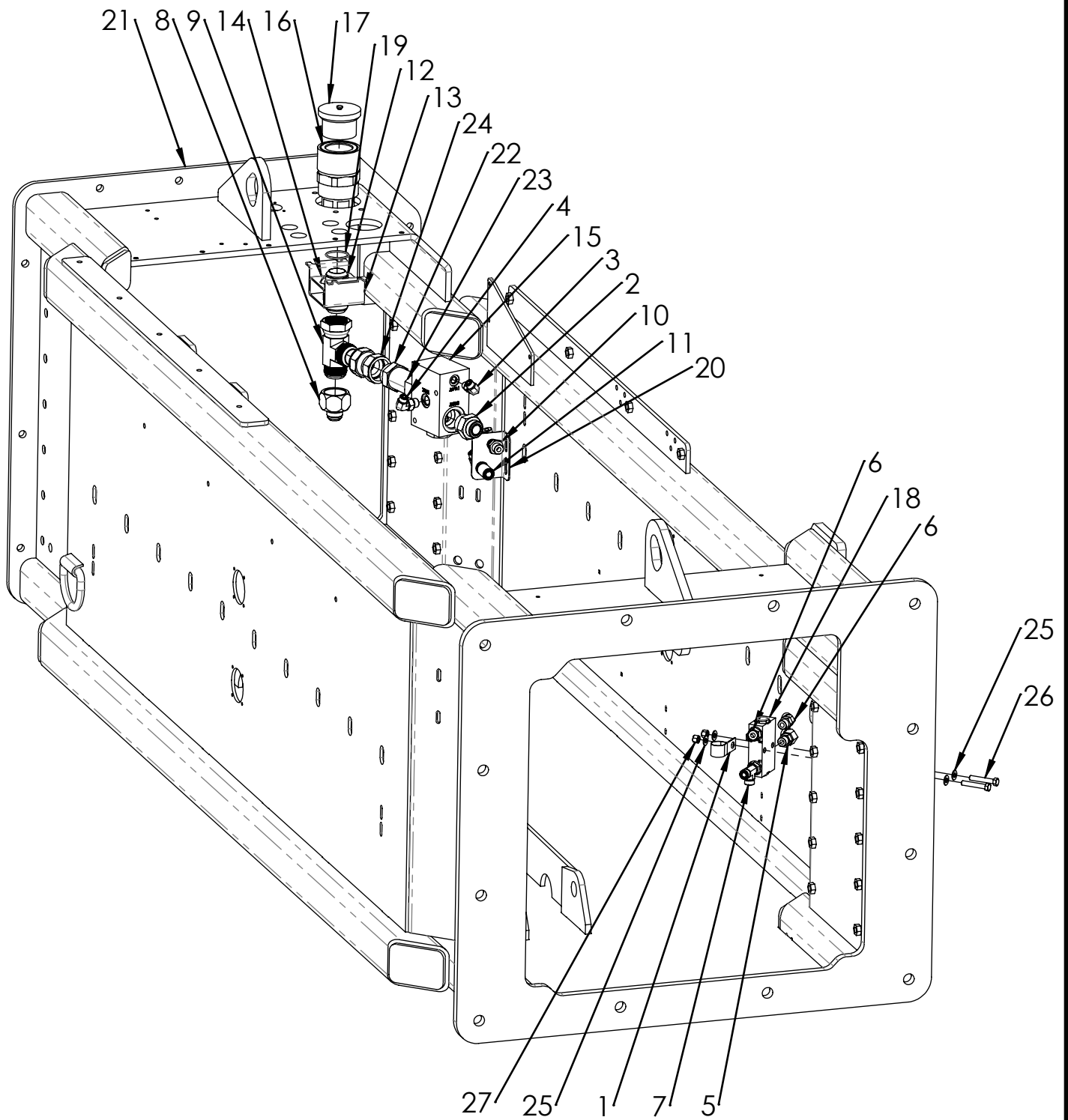
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Hydraulic Valves

HB175



Hydraulic Valves

HB175

Bom ID	Part No	Description	Qty	Remarks
1	931-2018	CLAMP, 1-1/8" VINYL J-CLIP"	1	
2	926-2223	ADAPTER, 16MO X 20MB	1	
3	926-2304	ELBOW, 6MO X 6MB 90°	1	
4	926-2305	ELBOW, 6MO X 8MB 90°	1	
5	926-2309	ELBOW, 10MO X 08MB 45°	1	
6	926-3606	ELBOW, 08MO X 08MB 45°	2	
7	926-3904	TEE, 8MO X 8MB X 8MO RUN	1	
8	926-4220	ADAPTER, 24FJ X 16MJ	1	
9	926-4407	TEE, 24MJ X 24FJ X 24MJ RUN	1	
10	926-4902	ELBOW, 08MO 90° BH	1	
11	926-4903	ELBOW, 10MO 90° BH	1	
12	926-5607	ADAPTER, 24MJ X 24MJ BH	1	
13	930-1035	BRACKET, QUICK COUPLER	1	
14	930-1036	LOCKING TAB	1	
15	930-2001	CHECK VALVE, P.O. 80 GPM	1	
16	930-2004	COUPLER, FEMALE 1-1/2 ORB	1	
17	930-2007	PLUG, FEMALE	1	
18	930-2032	VALVE, DUAL 16GPM P.O. CHECK	1	
19	930-2089	O-RING, 24 SAE PORT	1	
20	931-1076	BRACKET, BULKHEAD	1	
21	931-1089	HULL (RED)	1	
22	931-2016	ADAPTER, 24MJ X 24MORB LONG	1	
23	931-2017	ADAPTER, 20MORB X 24FORB	1	
24	6565-24-24	ADAPTER, 24FJ-24FJ	1	
25	06FW-SAE	WASHER, 3/8"	4	
26	06HH36	SCREW, 3/8-16 x 2.25 HHC - GR8	2	
27	06TLN	NUT, 3/8-16 TOP LOCK	2	

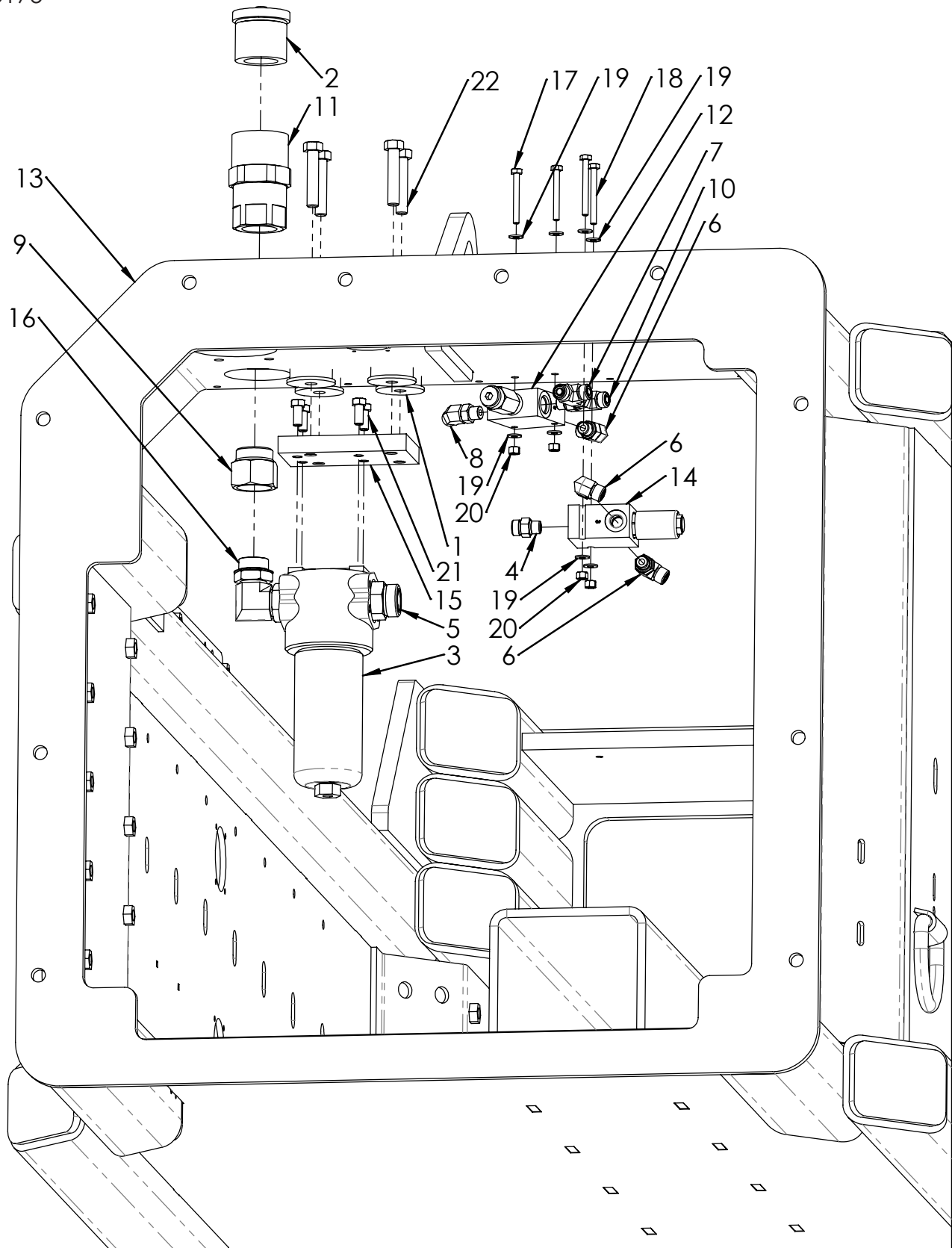
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Hydraulic Valves

HB175



Hydraulic Valves

HB175

Bom ID	Part No	Description	Qty	Remarks
1	913-8194	ISOLATOR	4	
2	913-8635	PLUG, FEMALE	1	
3	923-0475	PRESSURE FILTER HOUSING, 100XT	1	
4	926-2203	ADAPTER, 6MO X 6 MB	1	
5	926-2216	ADAPTER, 16MO X 16MB	1	
6	926-2304	ELBOW, 6MO X 6MB 90°	3	
7	926-3480	TEE, 6MO X 6FO X 6MO RUN	1	
8	926-3603	ELBOW, 06MO X 06MB 45°	1	
9	926-3822	ADAPTER, 20MB X 16FB	1	
10	926-3902	TEE, 6MO X 6MB X 6MO RUN	1	
11	930-2005	COUPLER, FEMALE 1-1/4 ORB	1	
12	930-2039	VALVE, P.O. PRESSURE REDUCING	1	
13	931-1089	HULL (RED)	1	
14	931-2009	VALVE, 2 POS 3 WAY	1	
15	931-5528	ADAPTER PLATE	1	
16	6807-16X16	ELBOW, 16MB x 16MB 90°	1	
17	04HH36	SCREW, 1/4-20 x 2.25 HHC - GR8	2	
18	04HH40	SCREW, 1/4-20 x 2.5 HHC - GR8	2	
19	04FW-SAE	WASHER, 1/4"	8	
20	04TLN	NUT, 1/4-20 TOP LOCK	4	
21	06HH14	SCREW, 3/8-16 x .875 HHC - GR8	4	
22	08HH40	SCREW, 1/2-13 x 2.5 HHC - GR8	4	

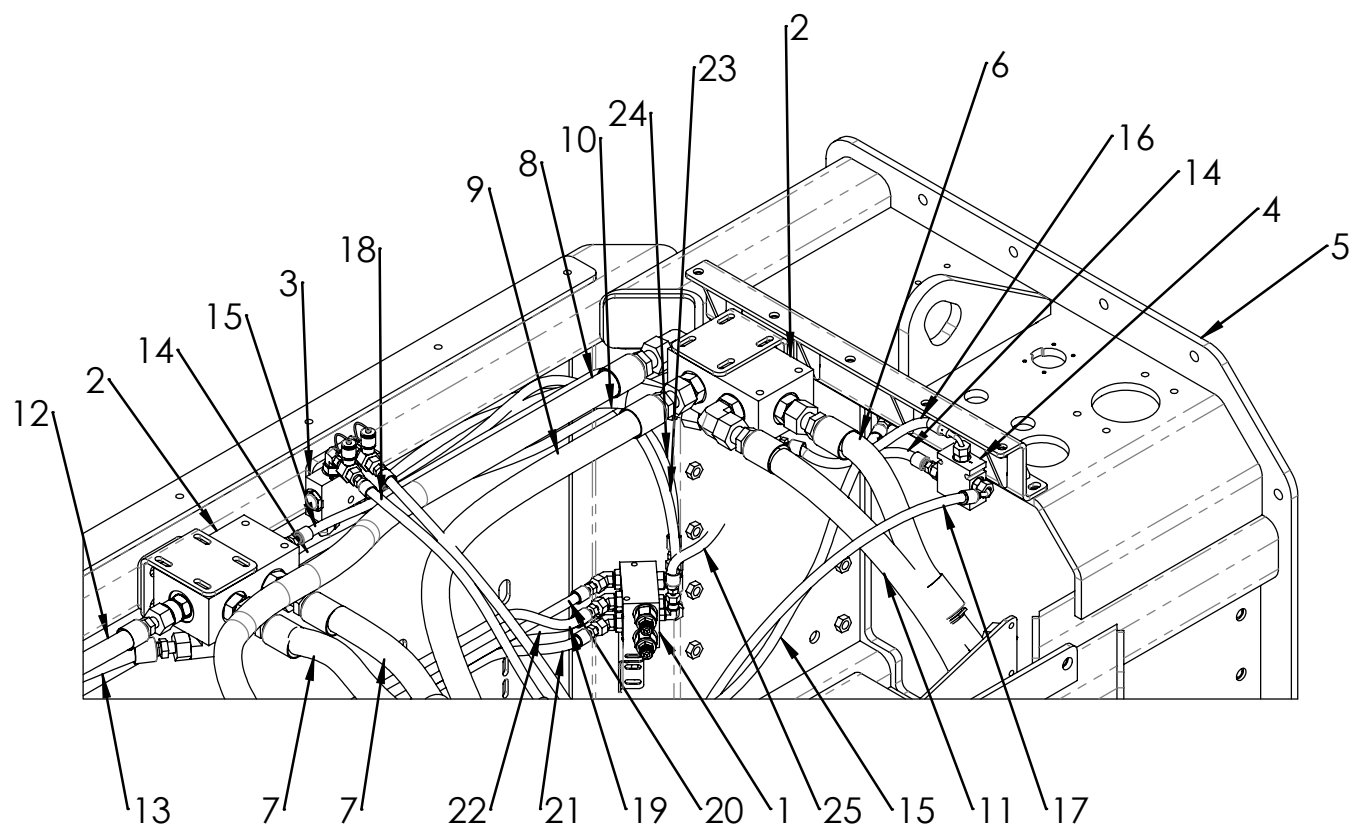
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Hydraulic Valve Hoses

HB175



Hydraulic Valve Hoses

HB175

Bom ID	Part No	Description	Qty	Remarks
1	913-9850	VALVE, DUAL SEQUENCE	1	
2	930-2011	MANIFOLD	2	
3	930-2032	VALVE, DUAL 16GPM P.O. CHECK	1	
4	930-2050	SHUTTLE VALVE ASSEMBLY	1	
5	931-1089	HULL (RED)	1	
6	H-01202	HOSE, 16FO-16FO90S x 16.5	1	
7	H-01203	HOSE, 16FO-16FO90S x 20.5	2	
8	H-01204	HOSE, 16FO-16FO90S x 59 (W/ SLEEVE)	1	
9	H-01205	HOSE, 16FO-16FOS x 44	1	
10	H-01206	HOSE, 16FO-16FO90S x 103 (W/SLEEVE)	1	
11	H-01207	HOSE, 16FO-16FO90S x 132	1	
12	H-01208	HOSE, 10FO-12FO X 74 (W/ SLEEVE)	1	
13	H-01210	HOSE, 12FO-10FO90S x 67 (W/SLEEVE)	1	
14	H-01211	HOSE, 6FO-6FO x 53	1	
15	H-01212	HOSE, 6FO-6FO x 48	1	
16	H-01214	HOSE, 6FO-6FO90S x 14.5	1	
17	H-01215	HOSE, 4FJ-8FO90S x 34	1	
18	H-01219	HOSE, 6FO-6FO90S X 34.5	2	
19	H-01227	HOSE, 6FO-6FO x 147 (W/ SLEEVE)	1	
20	H-01228	HOSE, 6FO-6FO x 108	1	
21	H-01229	HOSE, 6FO-6FO X 141 (W/SLEEVE)	1	
22	H-01230	HOSE, 6FO-6FO x 102	1	
23	H-01252	HOSE, 6FO-6FO90S x 36	1	
24	H-01253	HOSE, 6FO-6FO x 33	1	
25	H-01256	HOSE, 4FO-6FO x 32	1	

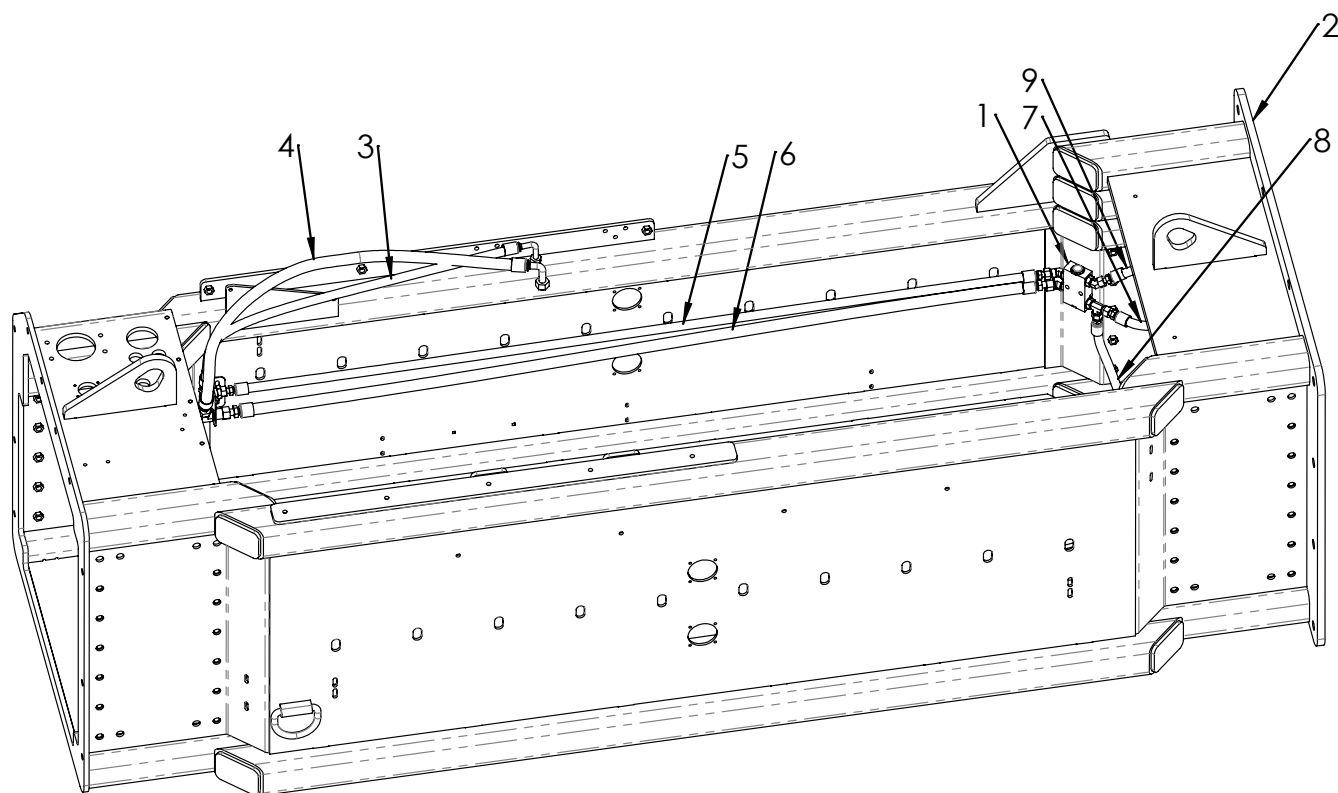
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Hydraulic Valve Hoses

HB175



Hydraulic Valve Hoses

HB175

Bom ID	Part No	Description	Qty	Remarks
1	930-2032	VALVE, DUAL 16GPM P.O. CHECK	1	
2	931-1089	HULL (RED)	1	
3	H-01217	HOSE, 8FO-8FO90L x 48	1	
4	H-01218	HOSE, 10FO-10FO90L X 50	1	
5	H-01220	HOSE, 8FO-8FO x 82	1	
6	H-01221	HOSE, 10FO-10FO x 81.5	1	
7	H-01223	HOSE, 8FO-8FO x 28.5	1	
8	H-01224	HOSE, 8FO-8FO x 30	1	
9	H-01225	HOSE, 8FO-8FO90S x 10.5	1	

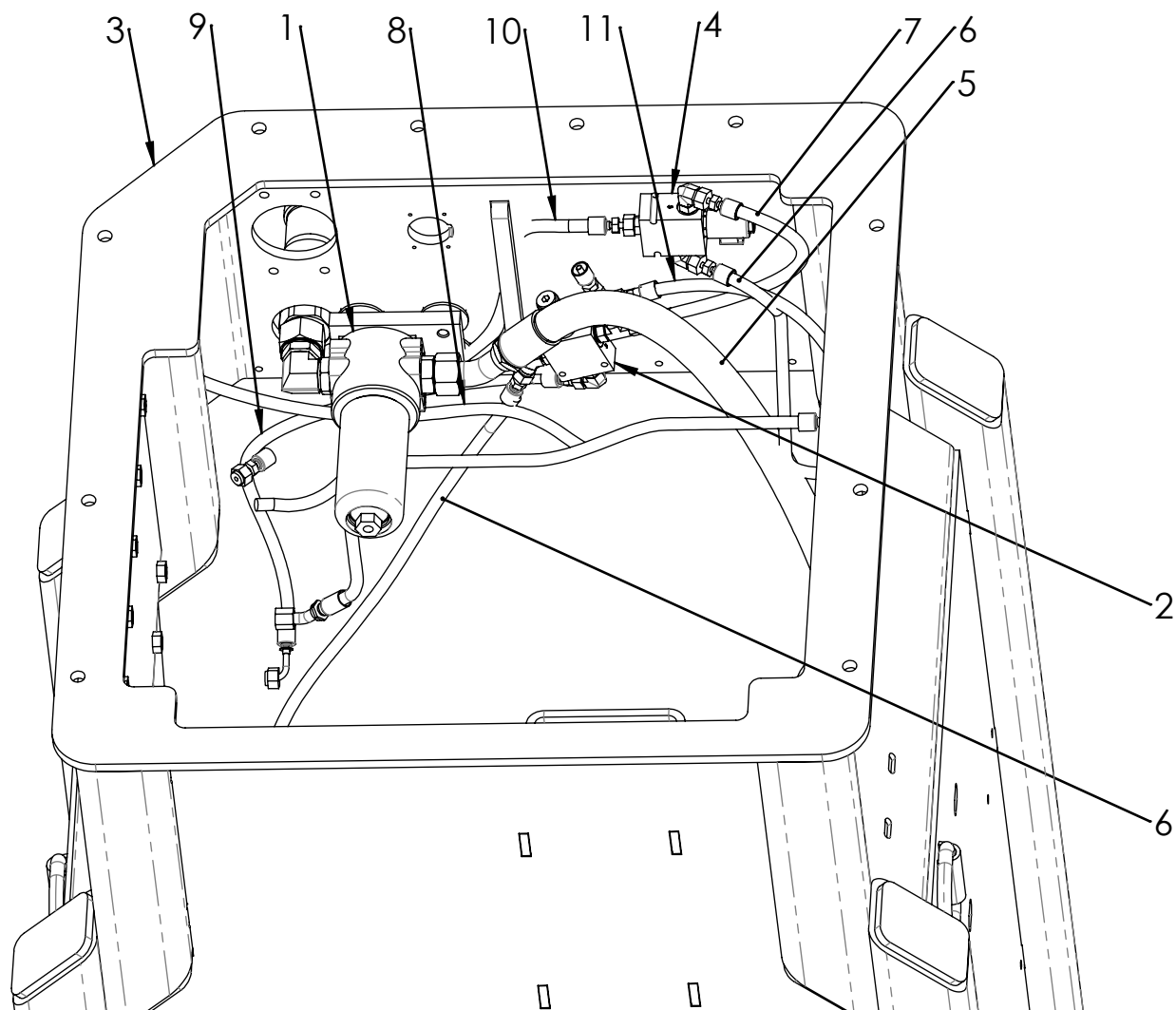
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Hydraulic Valve Hoses

HB175



Hydraulic Valve Hoses

HB175

Bom ID	Part No	Description	Qty	Remarks
1	923-0475	PRESSURE FILTER HOUSING, 100XT	1	
2	930-2039	VALVE, P.O. PRESSURE REDUCING	1	
3	931-1089	HULL (RED)	1	
4	931-2009	VALVE, 2 POS 3 WAY	1	
5	H-01200	HOSE, 16FO-16FO45 x 70	1	
6	H-01212	HOSE, 6FO-6FO x 48	2	
7	H-01213	HOSE, 6FO-6FO x 19	1	
8	H-01226	HOSE, 6FO-6FO45 x 34	1	
9	H-01254	HOSE, 6FO-6FO90S x 26	1	
10	H-01255	HOSE, 6FO-6FO x 22.5	1	
11	H-01256	HOSE, 4FO-6FO x 32	1	

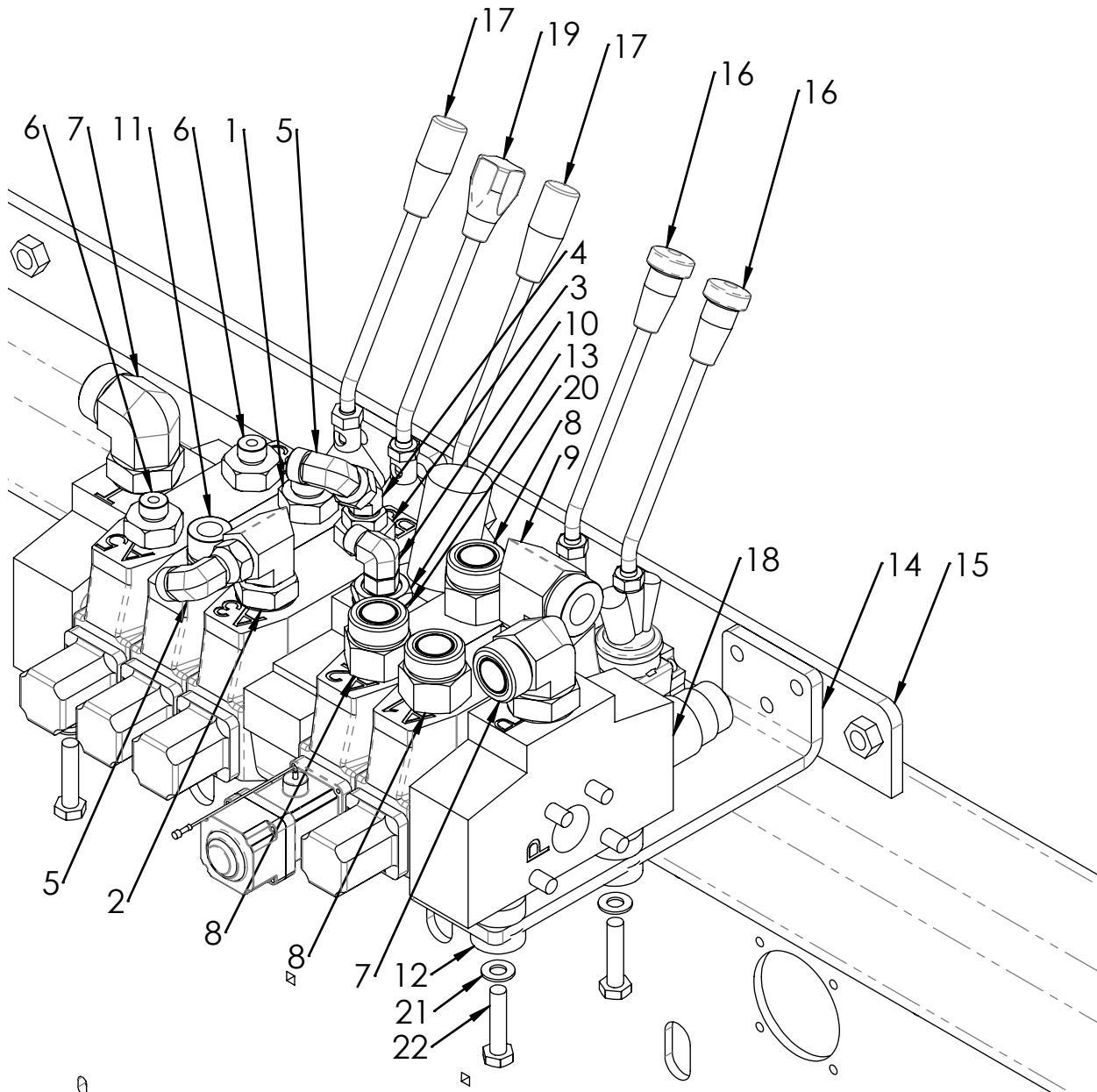
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Notes:

Hydraulic Control Valve

HB175



Hydraulic Control Valve

HB175

Bom ID	Part No	Description	Qty	Remarks
1	926-2226	ADAPTER, 8MO X 12MB	1	
2	926-2322	ELBOW, 08MO X 12MB 90°	1	
3	926-3813	REDUCER, 12MB X 08FB	1	
4	926-3606	ELBOW, 08MO X 08MB 45°	1	
5	926-5702	ELBOW, 8MO X 8FO 90°	2	
6	926-2225	ADAPTER, 06MO x 12MB	2	
7	926-2315	ELBOW, 16MO X 16MB 90°	2	
8	926-2218	ADAPTER, 16MO X 12MB	3	
9	926-2316	ELBOW, 16MO X 12MB 90°	1	
10	926-2304	ELBOW, 6MO X 6MB 90°	1	
11	926-2230	ADAPTER, 10MO x 12MB	1	
12	930-1021	ISOLATOR, 40LB	4	
13	930-2042	REDUCER, 12BSPP X 06FB	1	
14	931-1049	BRACKET, SPOOL VALVE	2	
15	931-1089	HULL (RED)	1	
16	931-2003	LEVER, M10 X 200mm, 30 DEGREE	2	
17	931-2004	LEVER, M10 X 200mm 30°	2	
18	931-2005	VALVE, CONTROL	1	
19	931-2008	LEVER, M10 X 200mm, RED 30°	1	
20	9500-12	SEAL, 12MBPP BONDED	1	
21	06FW-SAE	WASHER, 3/8"	4	
22	M10HH45	SCREW, M10 X 45 HHCS	4	

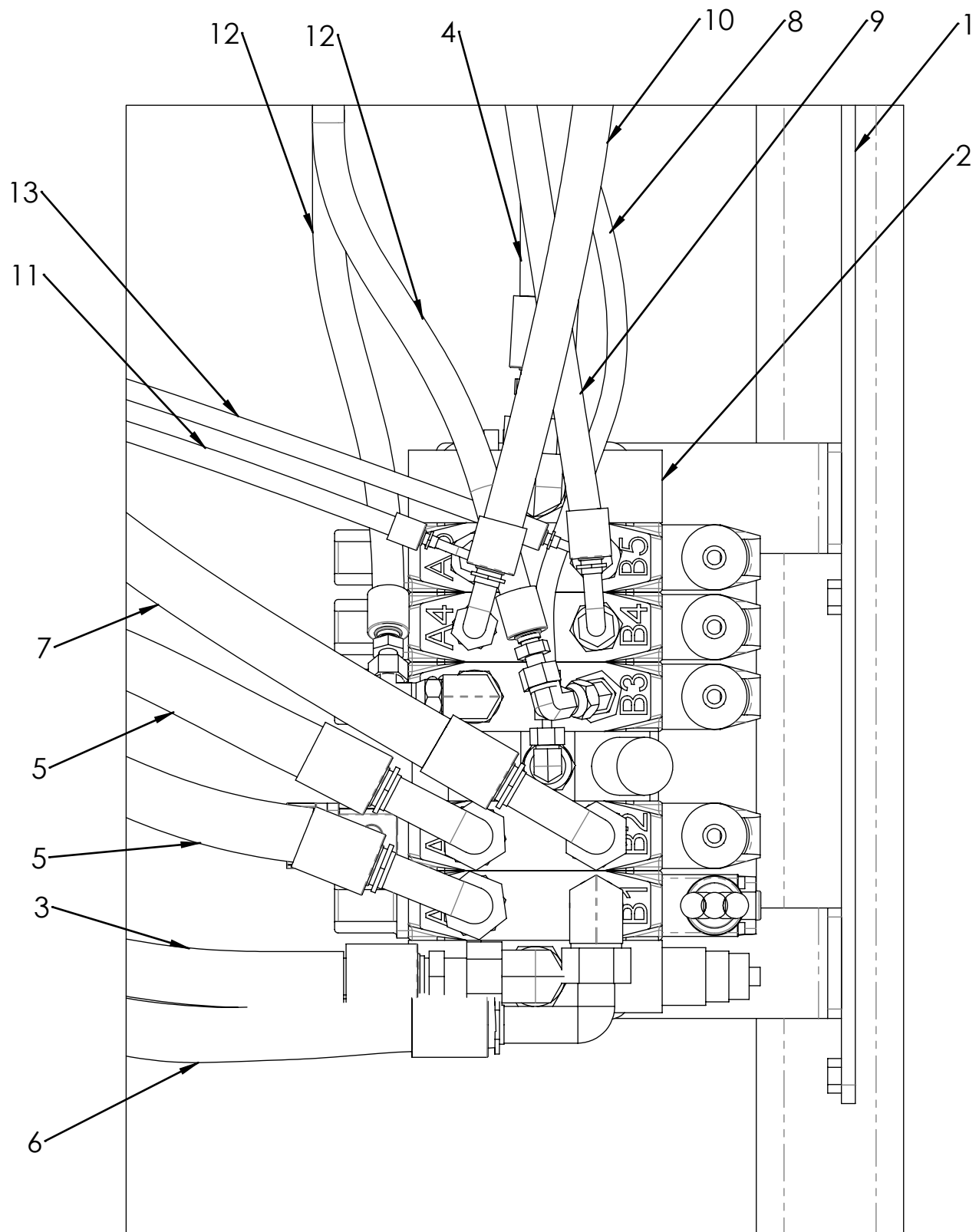
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Notes:

Hydraulic Control Valve Hoses

HB175



Hydraulic Control Valve Hoses

HB175

Bom ID	Part No	Description	Qty	Remarks
1	931-1089	HULL (RED)	1	
2	931-2005	VALVE, CONTROL	1	
3	H-01200	HOSE, 16FO-16FO45 x 70	1	
4	H-01201	HOSE, 16FO-16FJ90 X 44	1	
5	H-01203	HOSE, 16FO-16FO90S x 20.5	2	
6	H-01204	HOSE, 16FO-16FO90S x 59 (W/ SLEEVE)	1	
7	H-01205	HOSE, 16FO-16FOS x 44	1	
8	H-01212	HOSE, 6FO-6FO x 48	1	
9	H-01217	HOSE, 8FO-8FO90L x 48	1	
10	H-01218	HOSE, 10FO-10FO90L X 50	1	
11	H-01219	HOSE, 6FO-6FO90S X 34.5	1	
12	H-01270	HOSE ASSEMBLY, HYDRAULIC MOTOR	1	

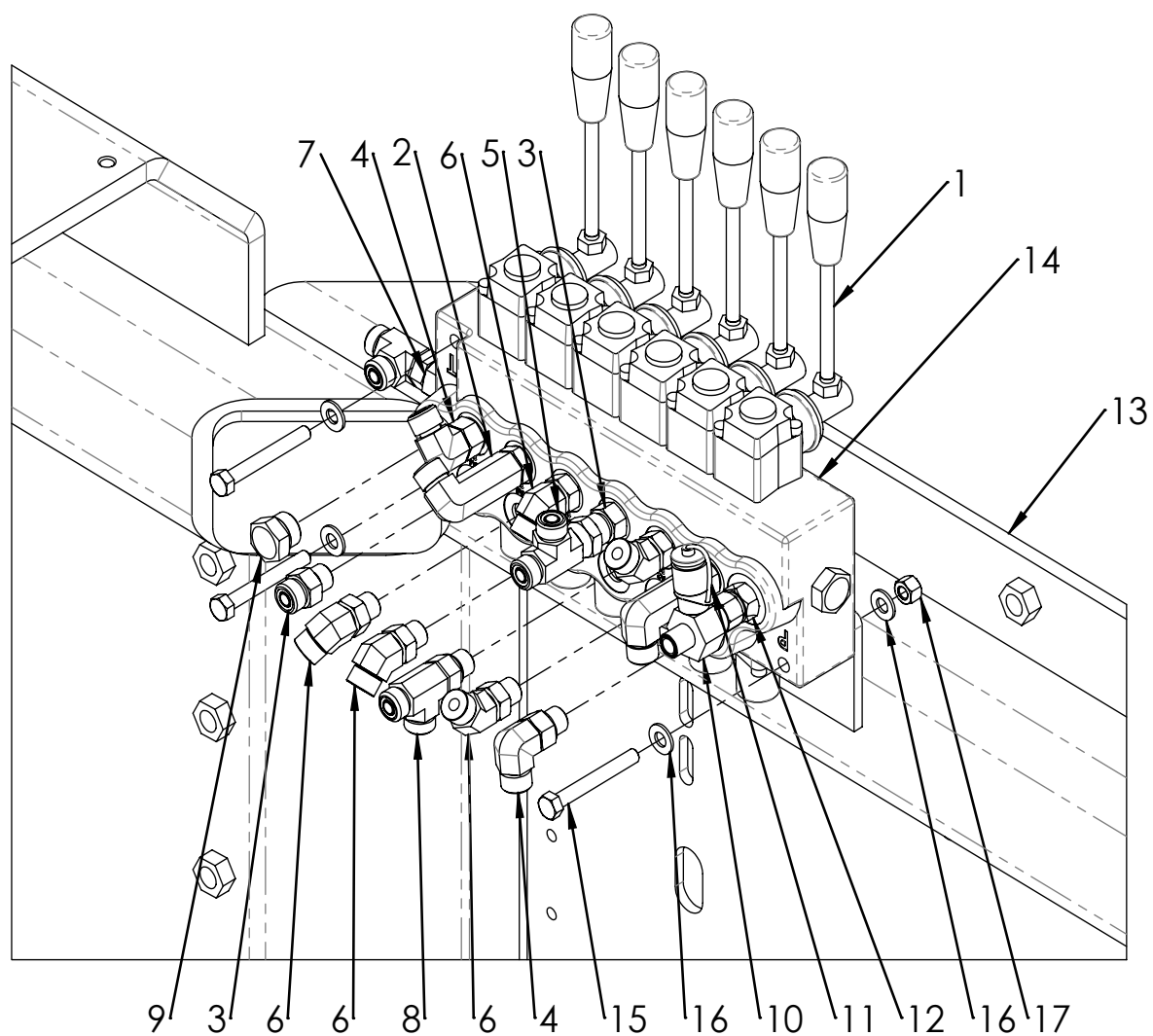
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Notes:

Hydraulic Stabilizer Valve

HB175



Hydraulic Stabilizer Valve

HB175

Bom ID	Part No	Description	Qty	Remarks
1	913-7436	LEVER M8 X 120MM	6	
2	926-2161	ELBOW, 6MO X 6MB LONG	2	
3	926-2203	ADAPTER, 6MO X 6 MB	2	
4	926-2304	ELBOW, 6MO X 6MB 90°	2	
5	926-3480	TEE, 6MO X 6FO X 6MO RUN	1	
6	926-3603	ELBOW, 06MO X 06MB 45°	5	
7	926-3806	ADAPTER, 8MB X 6FB	1	
8	926-3902	TEE, 6MO X 6MB X 6MO RUN	2	
9	926-4102	PLUG, 8MB HEX HEAD	2	
10	926-6601	GAUGE PORT, 06MO X 06FO	1	
11	926-7504	TEST PORT COUPLING	1	
12	926-7603	ORIFICE, 6MO X 8MB, .050	2	
13	931-1089	HULL (RED)	1	
14	931-2010	VALVE, STABILIZER-6 SPOOL	1	
15	05HH40	SCREW, 5/16-18 x 2.5 HHC - GR8	3	
16	05FW-SAE	WASHER, 5/16"	6	
17	05TLN	NUT, 5/16-18 TOP LOCK	3	

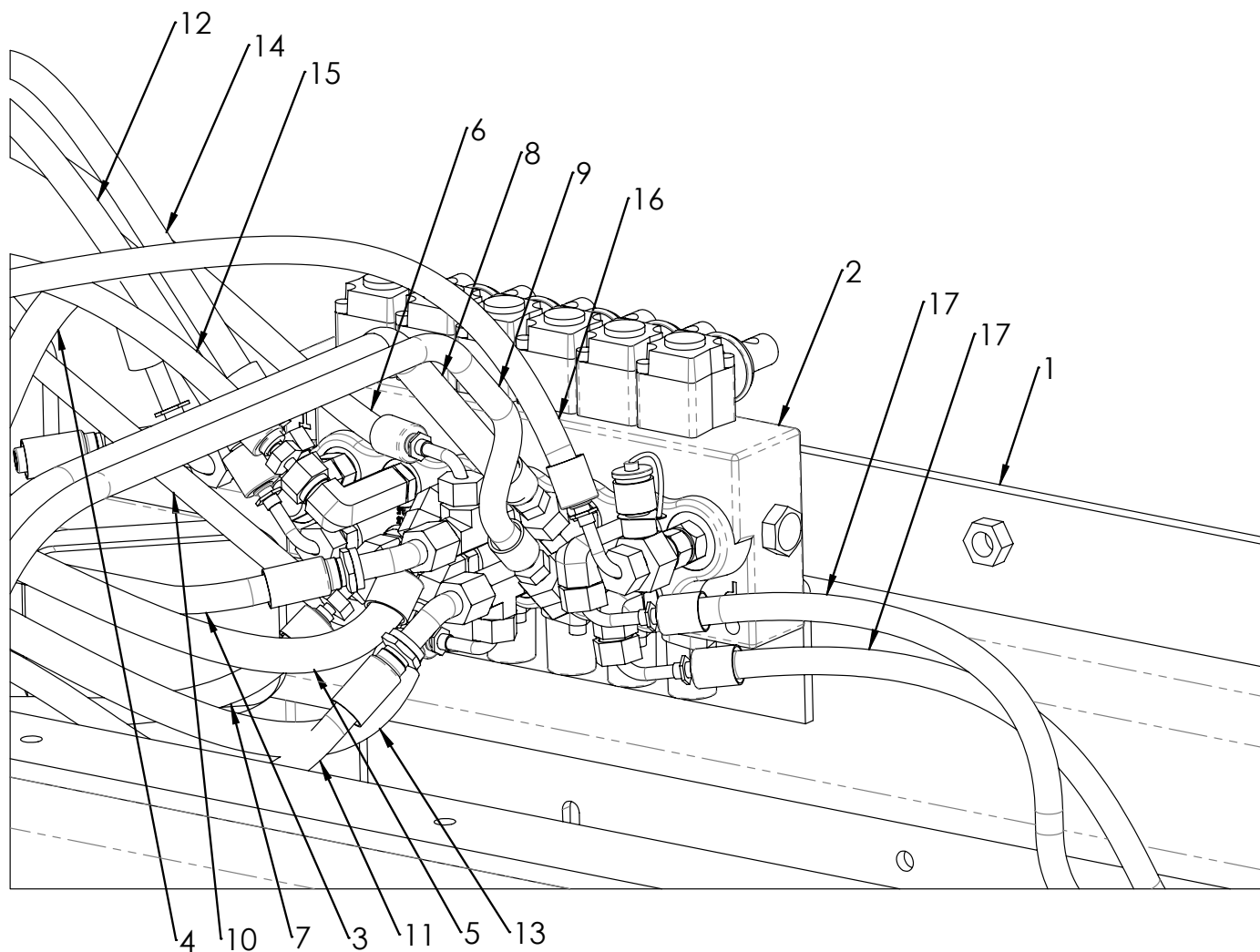
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Notes:

Hydraulic Stabilizer Valve Hoses

HB175



Hydraulic Stabilizer Valve Hoses

HB175

Bom ID	Part No	Description	Qty	Remarks
1	931-1089	HULL (RED)	1	
2	931-2010	VALVE, STABILIZER-6 SPOOL	1	
3	H-01226	HOSE, 6FO-6FO45 x 34	1	
4	H-01231	HOSE, 6FO-6FO90S x 13	1	
5	H-01232	HOSE, 6FO-6FO x 140 (W/ SLEEVE)	1	
6	H-01233	HOSE, 6FO-6FO90S x 22 (W/ SLEEVE)	1	
7	H-01235	HOSE, 6FO-6FO x 36 (W/ SLEEVE)	1	
8	H-01239	HOSE, 6FO-6FO90S x 128	1	
9	H-01240	HOSE, 6FO-6FO90S x 117	1	
10	H-01241	HOSE, 6FO-6FO90S x 41 (W/SLEEVE)	1	
11	H-01242	HOSE, 6FO-6FO45 x 41 (W/SLEEVE)	1	
12	H-01243	HOSE, 6FO-6FO90S x 76 (W/SLEEVE)	1	
13	H-01244	HOSE, 6FO-6FO x 177 (W/SLEEVE)	1	
14	H-01245	HOSE, 6FO-6FO90S x 34 (W/SLEEVE)	1	
15	H-01250	HOSE, 6FO-6FO x 36	1	
16	H-01254	HOSE, 6FO-6FO90S x 26	1	
17	H-01258	HOSE ASSEMBLY, STABILIZER VALVE	2	

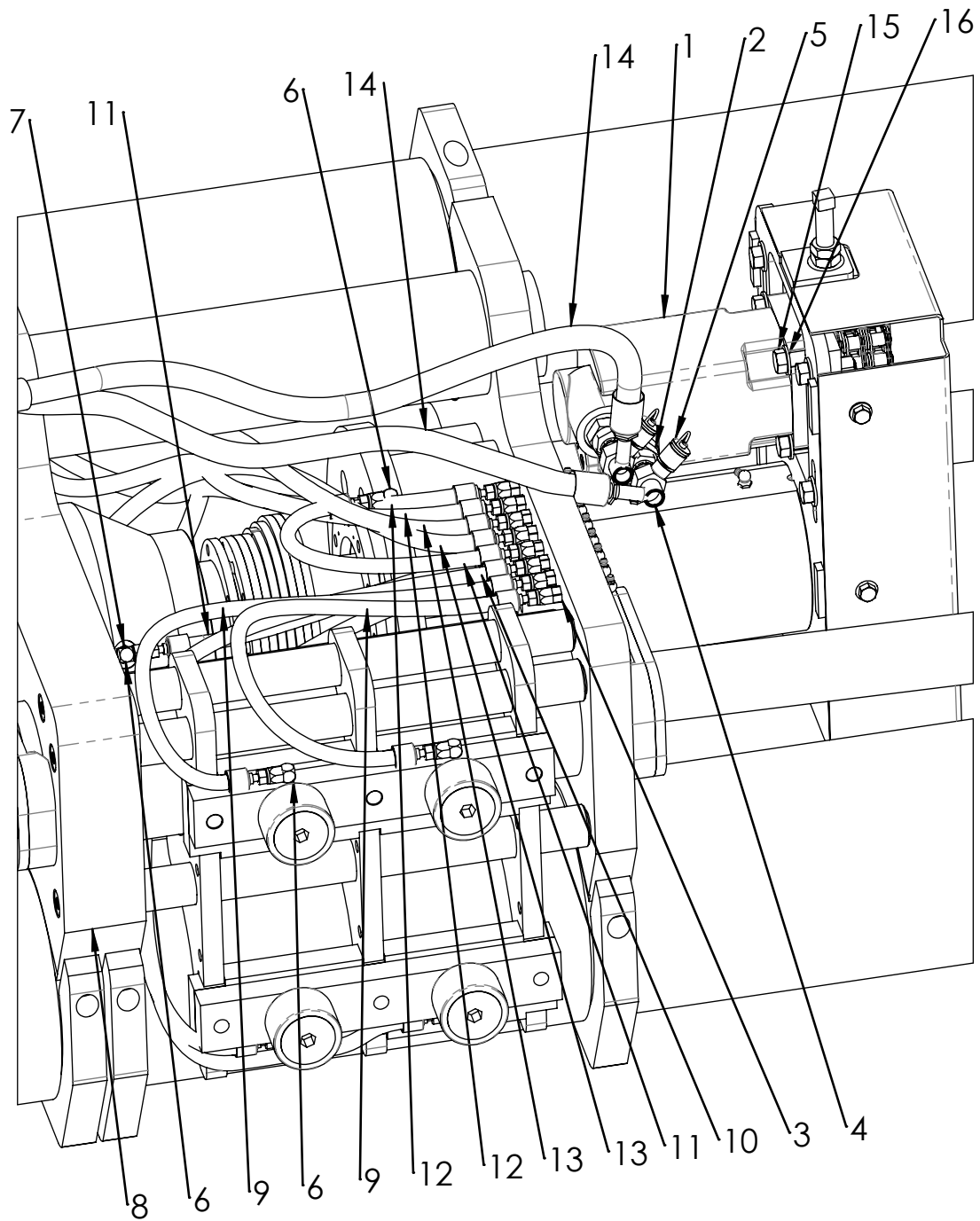
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Notes:

Hydraulic Motor and Spindle Hoses

HB175



Hydraulic Motor and Spindle Hoses

HB175

Bom ID	Part No	Description	Qty	Remarks
1	912-3674	MOTOR HYDRAULIC 15.0 CI	1	
2	926-2226	ADAPTER, 8MO X 12MB	2	
3	848-FS-04X02	ADAPTER, 4MJ X 2NPTF	10	
4	926-6602	GAUGE PORT, 08MO X 08FO	2	
5	926-7504	TEST PORT COUPLING	2	
6	926-9361	ELBOW, 04MJ X 02MP 90°	10	
7	926-9400	ADAPTER, MP X FP SWIVEL	1	
8	931-4500	FRAME, SPINDLE	1	
9	H-01247	HOSE, 4FJ-4FJ x 26	2	
10	H-01248	HOSE, 4FJ-4FJX x 36	2	
11	H-01249	HOSE, 4FJ-4FJ x 15	2	
12	H-01261	HOSE, 4FJ-4FJX X 43	2	
13	H-01262	HOSE, 4FJ-4FJX X 48	2	
14	H-01270	HOSE ASSEMBLY, HYDRAULIC MOTOR	2	
15	08HH24	SCREW, 1/2-13 x 1.5 HHC - GR8	4	
16	08FW-SAE	WASHER, 1/2"	4	

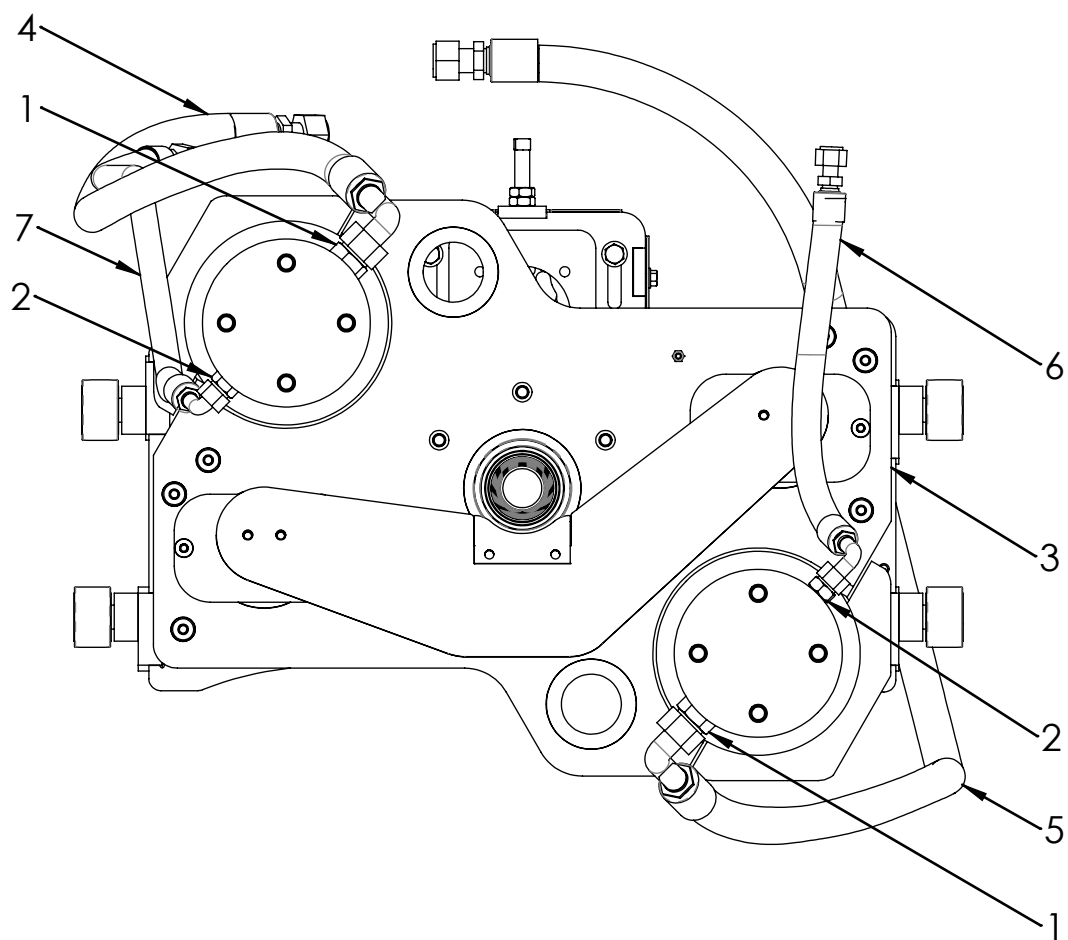
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Notes:

Spindle Hoses

HB175



Spindle Hoses

HB175

Bom ID	Part No	Description	Qty	Remarks
1	926-2216	ADAPTER, 16MO X 16MB	2	
2	926-2230	ADAPTER, 10MO x 12MB	2	
3	931-4500	FRAME, SPINDLE	1	
4	H-01206	HOSE, 16FO-16FO90S x 103 (W/SLEEVE)	1	
5	H-01207	HOSE, 16FO-16FO90S x 132	1	
6	H-01209	HOSE, 10FO-10FO90M x 19	1	
7	H-01210	HOSE, 12FO-10FO90S x 67 (W/SLEEVE)	1	

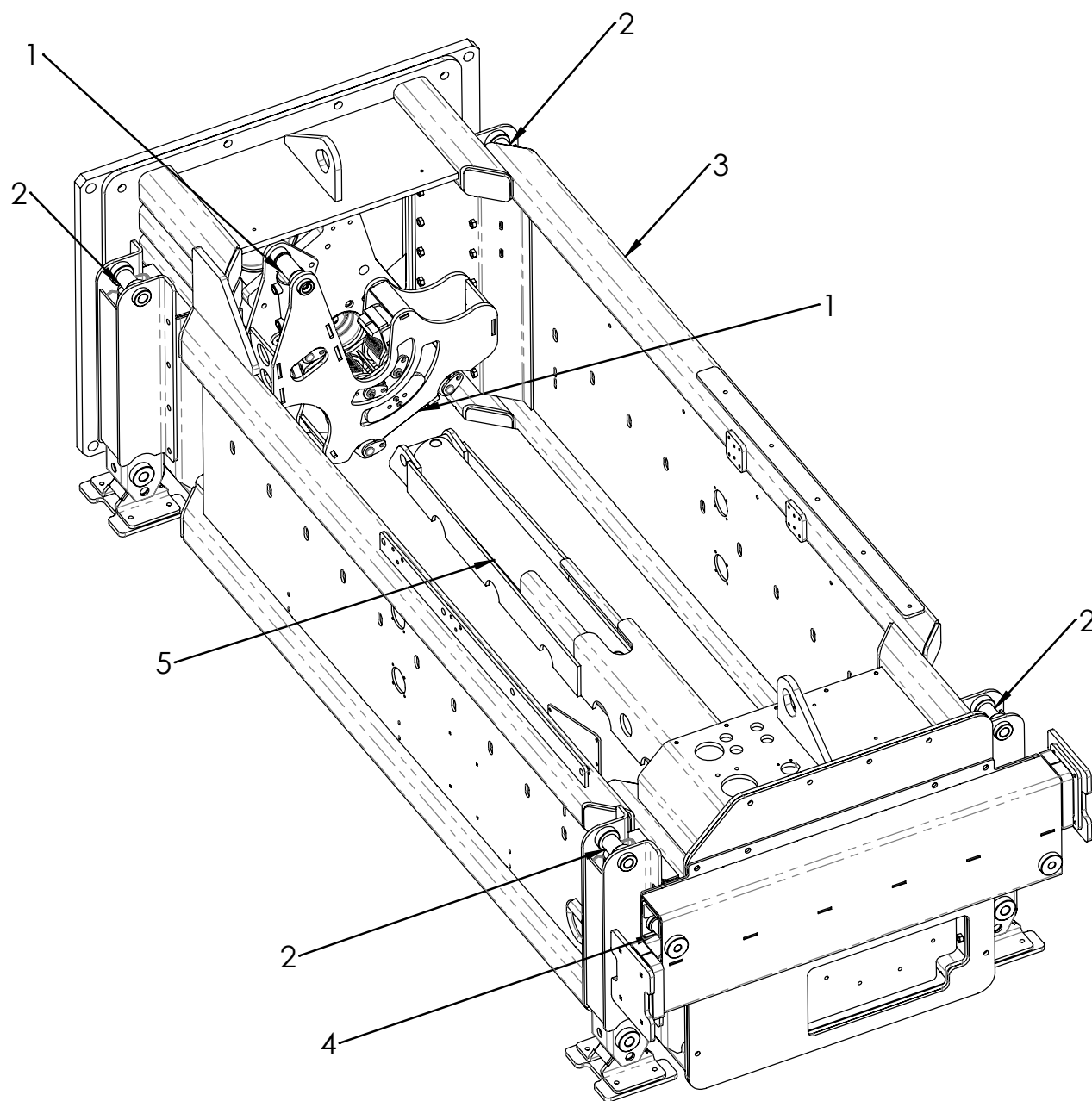
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Hydraulic Cylinder Locations

HB175



Hydraulic Cylinder Locations

HB175

Bom ID	Part No	Description	Qty	Remarks
1	913-7600	CYLINDER, 2-1/2x3-1/2	2	
2	930-2055	CYLINDER, 2" X 16"	4	
3	931-1089	HULL (RED)	1	
4	931-1091	CYLINDER, 2 1/2" X 36"	2	
5	931-1092	CYLINDER, 4" X 36"	1	

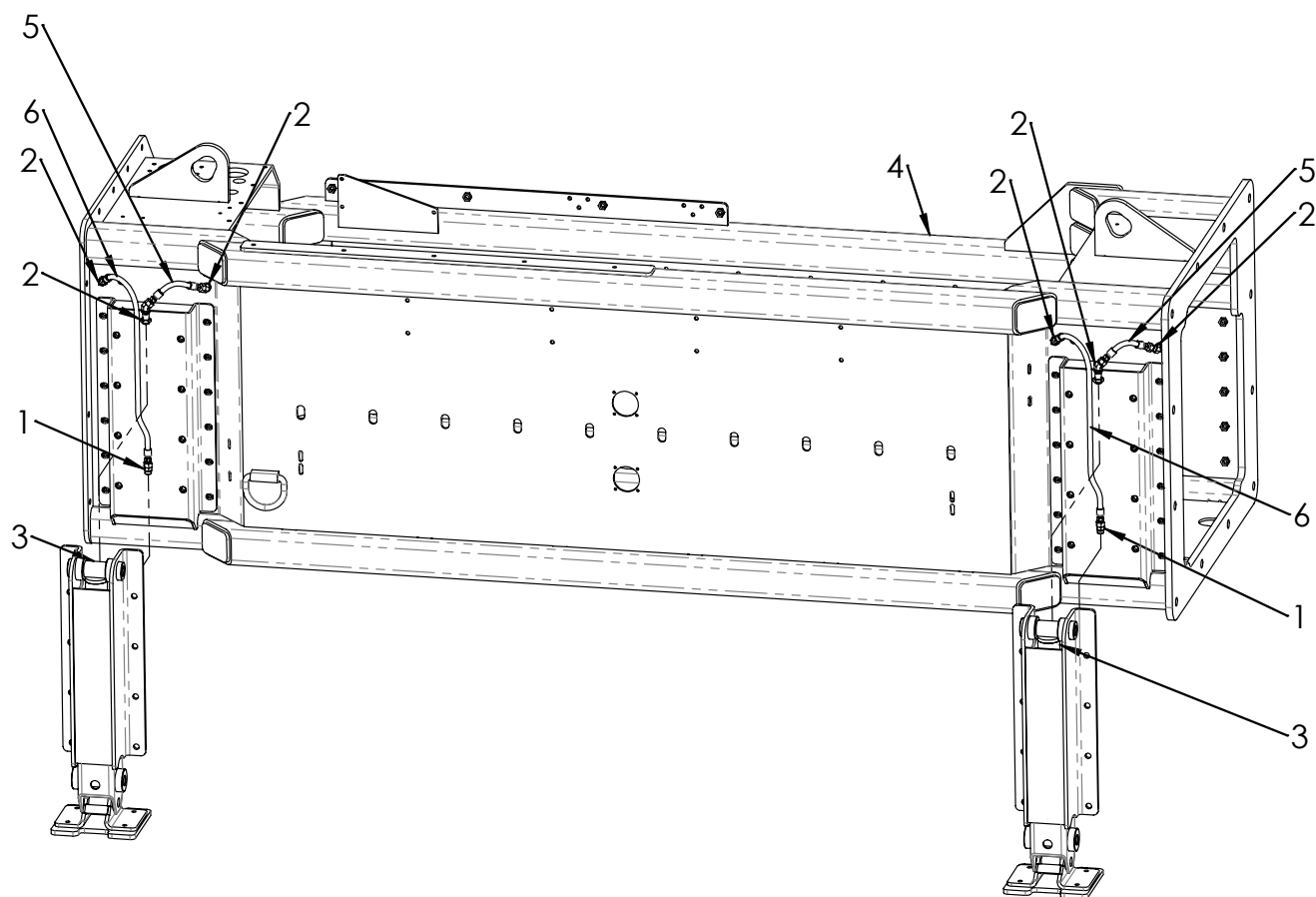
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Notes:

Hydraulic Stabilizer Hoses

HB175



Hydraulic Stabilizer Hoses

HB175

Bom ID	Part No	Description	Qty	Remarks
1	926-2203	ADAPTER, 6MO X 6 MB	2	
2	926-4801	ELBOW, 06MO 45° BH	6	
3	930-2055	CYLINDER, 2" X 16"	2	
4	931-1089	HULL (RED)	1	
5	H-01236	HOSE, 6FO-6FO x 14	2	
6	H-01237	HOSE, 6FO-6FO x 29	2	

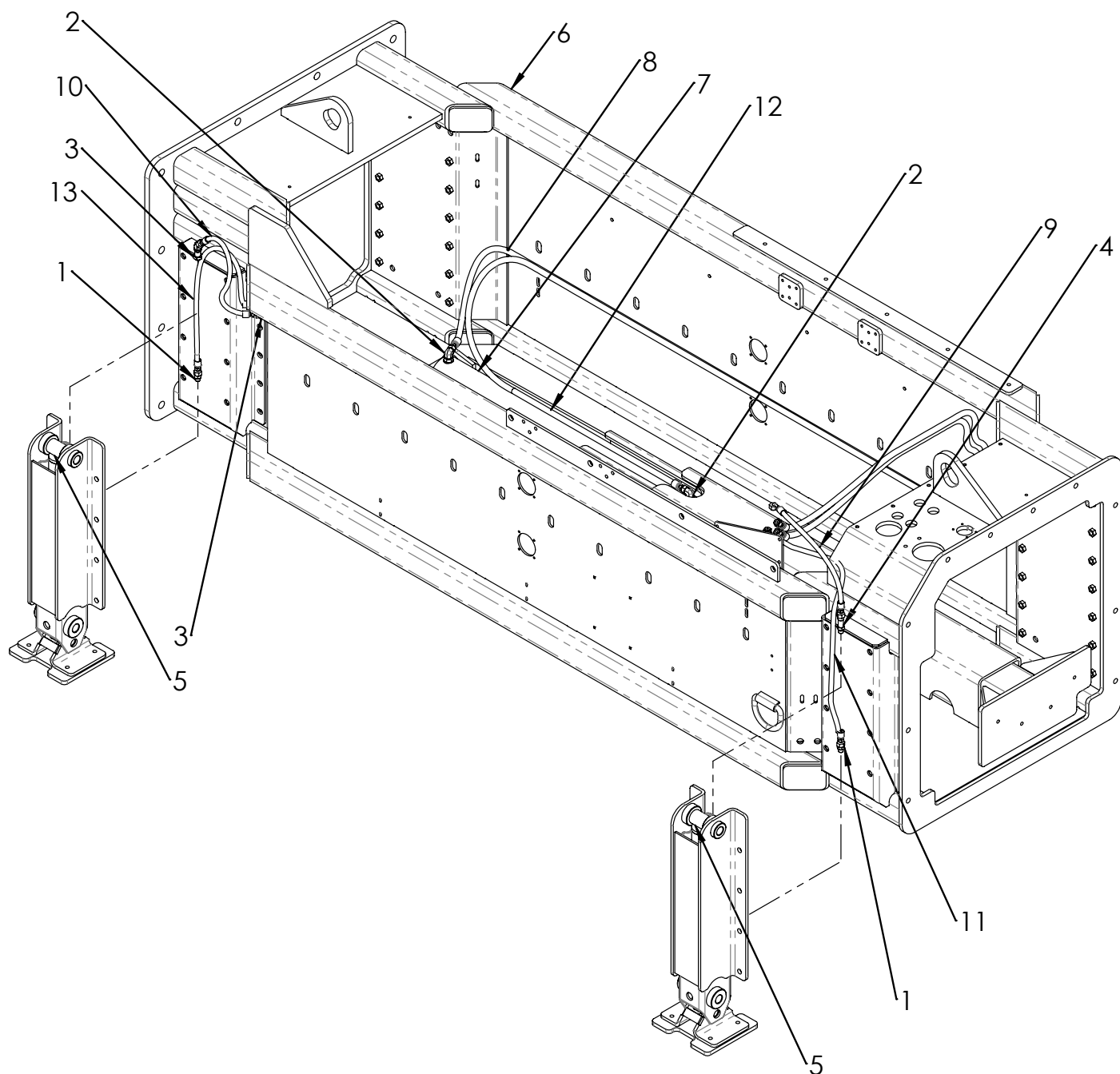
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Notes:

Hydraulic Stabilizer Hoses

HB175



Hydraulic Stabilizer Hoses

HB175

Bom ID	Part No	Description	Qty	Remarks
1	926-2203	ADAPTER, 6MO X 6 MB	2	
2	926-2305	ELBOW, 6MO X 8MB 90°	2	
3	926-4801	ELBOW, 06MO 45° BH	3	
4	926-8701	ADAPTER, 06 MO X 06 MB LONG	1	
5	930-2055	CYLINDER, 2" X 16"	2	
6	931-1089	HULL (RED)	1	
7	931-1092	CYLINDER, 4" X 36"	1	
8	H-01232	HOSE, 6FO-6FO x 140 (W/ SLEEVE)	1	
9	H-01233	HOSE, 6FO-6FO90S x 22 (W/ SLEEVE)	1	
10	H-01234	HOSE, 6FO-6FO x 17.5 (W/ SLEEVE)	1	
11	H-01241	HOSE, 6FO-6FO90S x 41 (W/SLEEVE)	1	
12	H-01244	HOSE, 6FO-6FO x 177 (W/SLEEVE)	1	
13	H-01235	HOSE, 6FO-6FO x 36 (W/SLEEVE)	1	

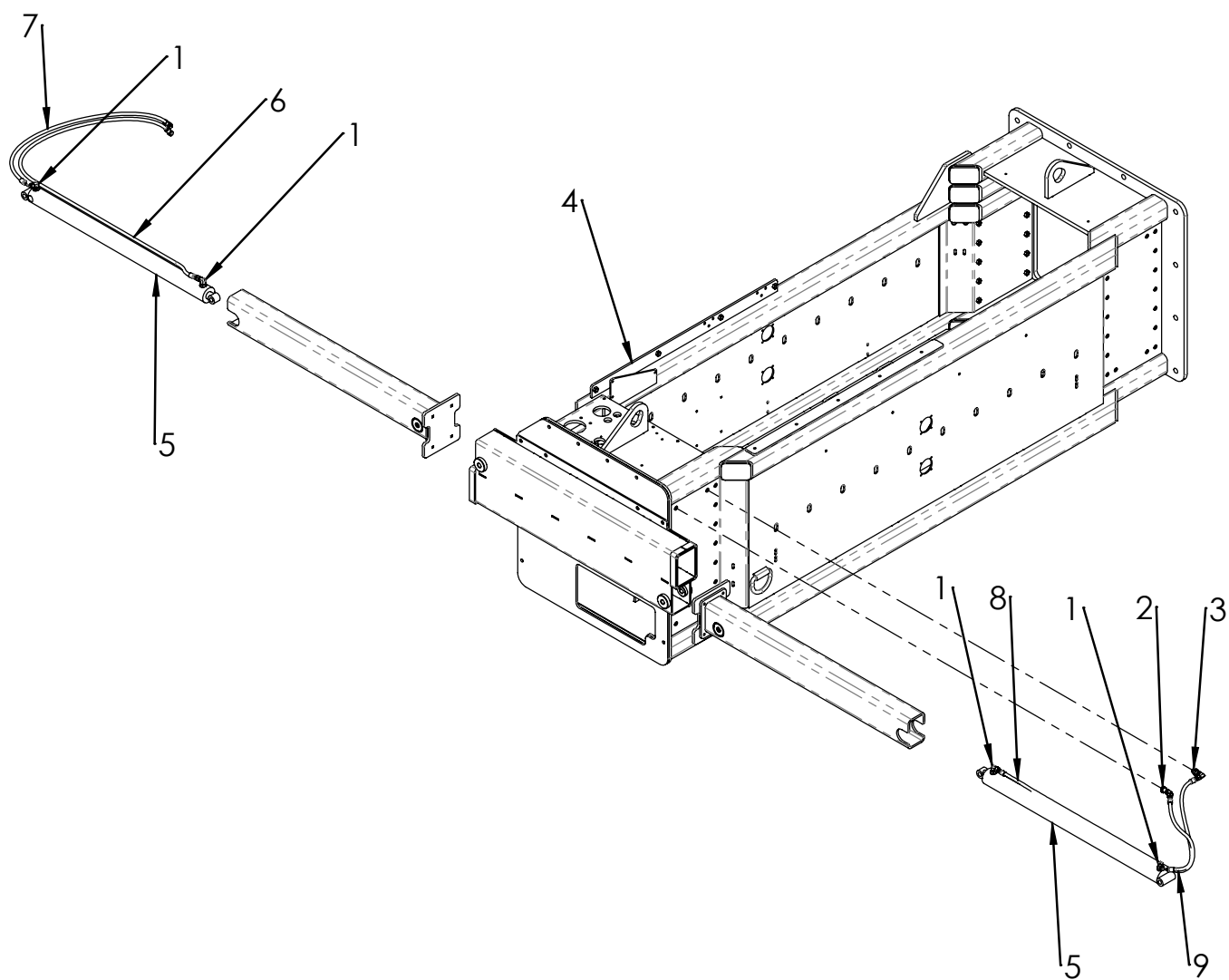
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Notes:

Hydraulic Rear Stabilizer Hoses

HB175



Hydraulic Rear Stabilizer Hoses

HB175

Bom ID	Part No	Description	Qty	Remarks
1	926-2305	ELBOW, 6MO X 8MB 90°	4	
2	926-4801	ELBOW, 06MO 45° BH	1	
3	926-4901	ELBOW, 06MO 90° BH	1	
4	931-1089	HULL (RED)	1	
5	931-1091	CYLINDER, 2 1/2" X 36"	2	
6	H-01243	HOSE, 6FO-6FO90S x 76 (W/SLEEVE)	1	
7	H-01245	HOSE, 6FO-6FO90S x 34 (W/SLEEVE)	1	
8	H-01246	HOSE, 6FO-6FO x 60	1	
9	H-01251	HOSE, 6FO-6FO90S x 23	1	

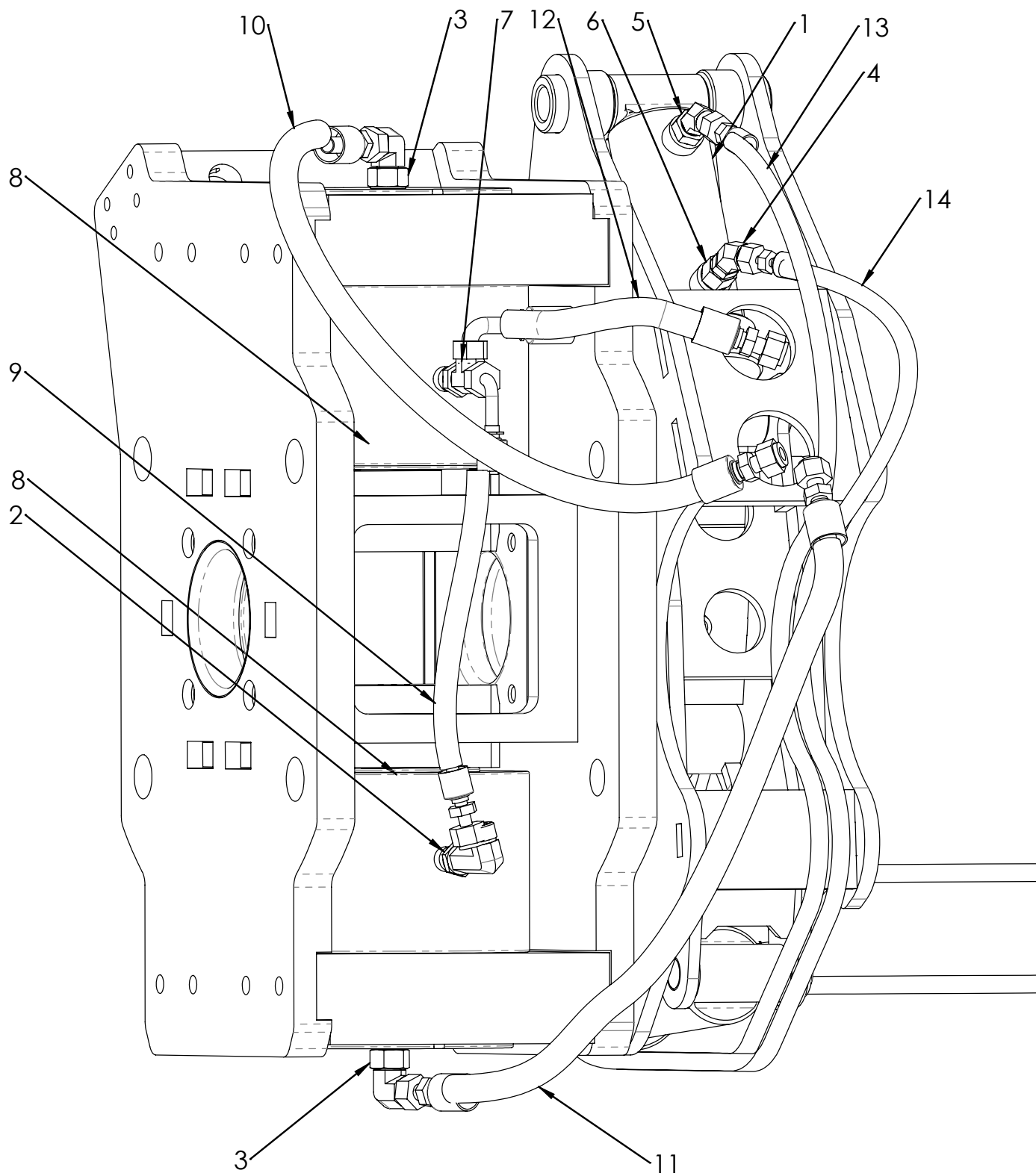
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Notes:

Hydraulic Vise Hoses

HB175



Hydraulic Vise Hoses

HB175

Bom ID	Part No	Description	Qty	Remarks
1	913-7600	CYLINDER, 2-1/2x3-1/2	2	
2	926-2162	ELBOW, 08MO X 08MB 90° LONG	1	
3	926-2308	ELBOW, 8MO X 10MB 90°	2	
4	926-3603	ELBOW, 06MO X 06MB 45°	1	
5	926-3604	ELBOW, 06MO X 08MB 45°	1	
6	926-3806	ADAPTER, 8MB X 6FB	1	
7	926-3904	TEE, 8MO X 8MB X 8MO RUN	1	
8	931-2001	CYLINDER, BUNGEE VISE	2	
9	H-01222	HOSE, 8FO-8FO90S x 15	1	
10	H-01223	HOSE, 8FO-8FO x 28.5	1	
11	H-01224	HOSE, 8FO-8FO x 30	1	
12	H-01225	HOSE, 8FO-8FO90S x 10.5	1	
13	H-01227	HOSE, 6FO-6FO x 147 (W/ SLEEVE)	1	
14	H-01229	HOSE, 6FO-6FO X 141 (W/SLEEVE)	1	

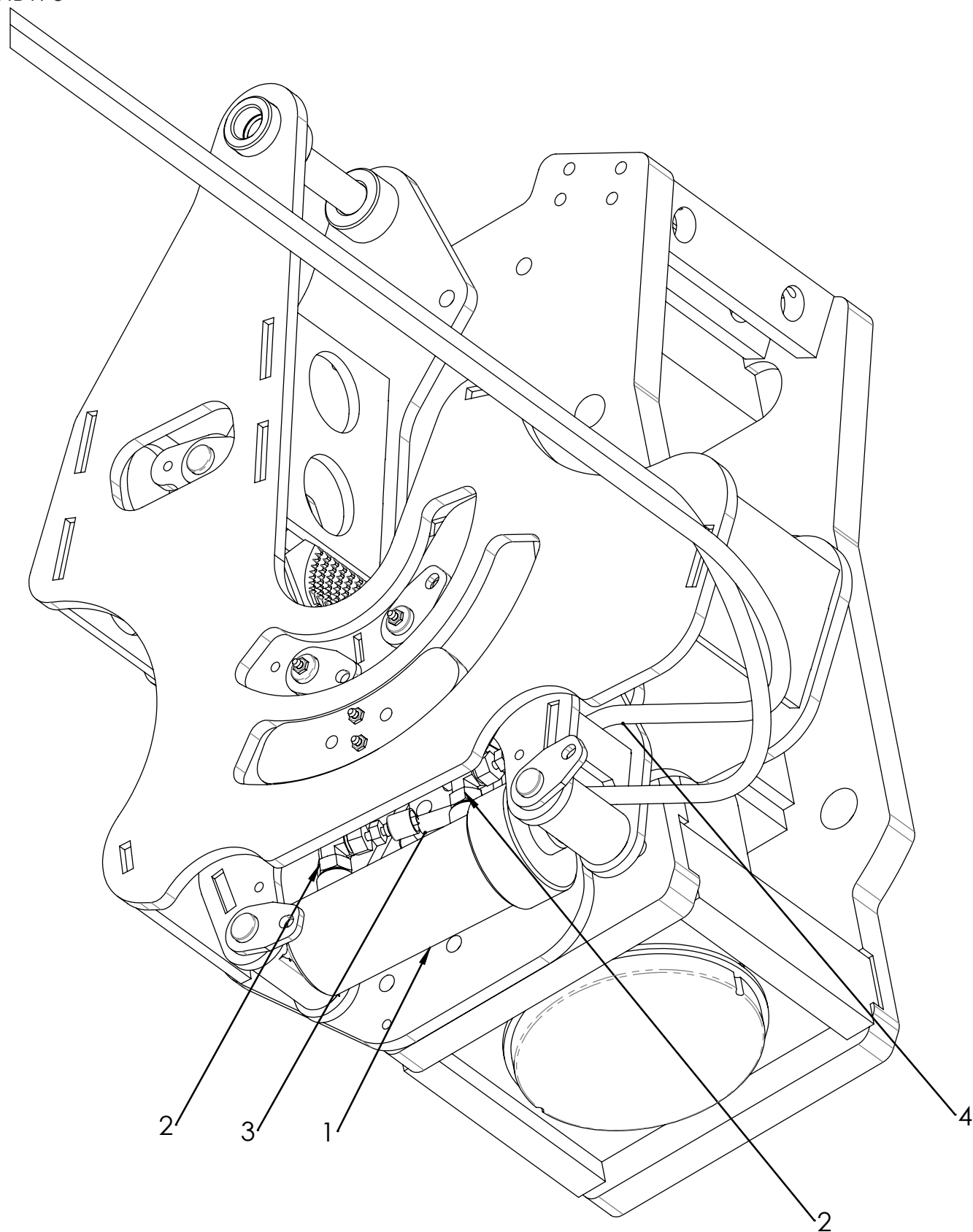
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Notes:

Hydraulic Vise Hoses

HB175



Hydraulic Vise Hoses

HB175

Bom ID	Part No	Description	Qty	Remarks
1	913-7600	CYLINDER, 2-1/2x3-1/2	1	
2	926-2305	ELBOW, 6MO X 8MB 90°	2	
3	H-01228	HOSE, 6FO-6FO x 108	1	
4	H-01230	HOSE, 6FO-6FO x 102	1	

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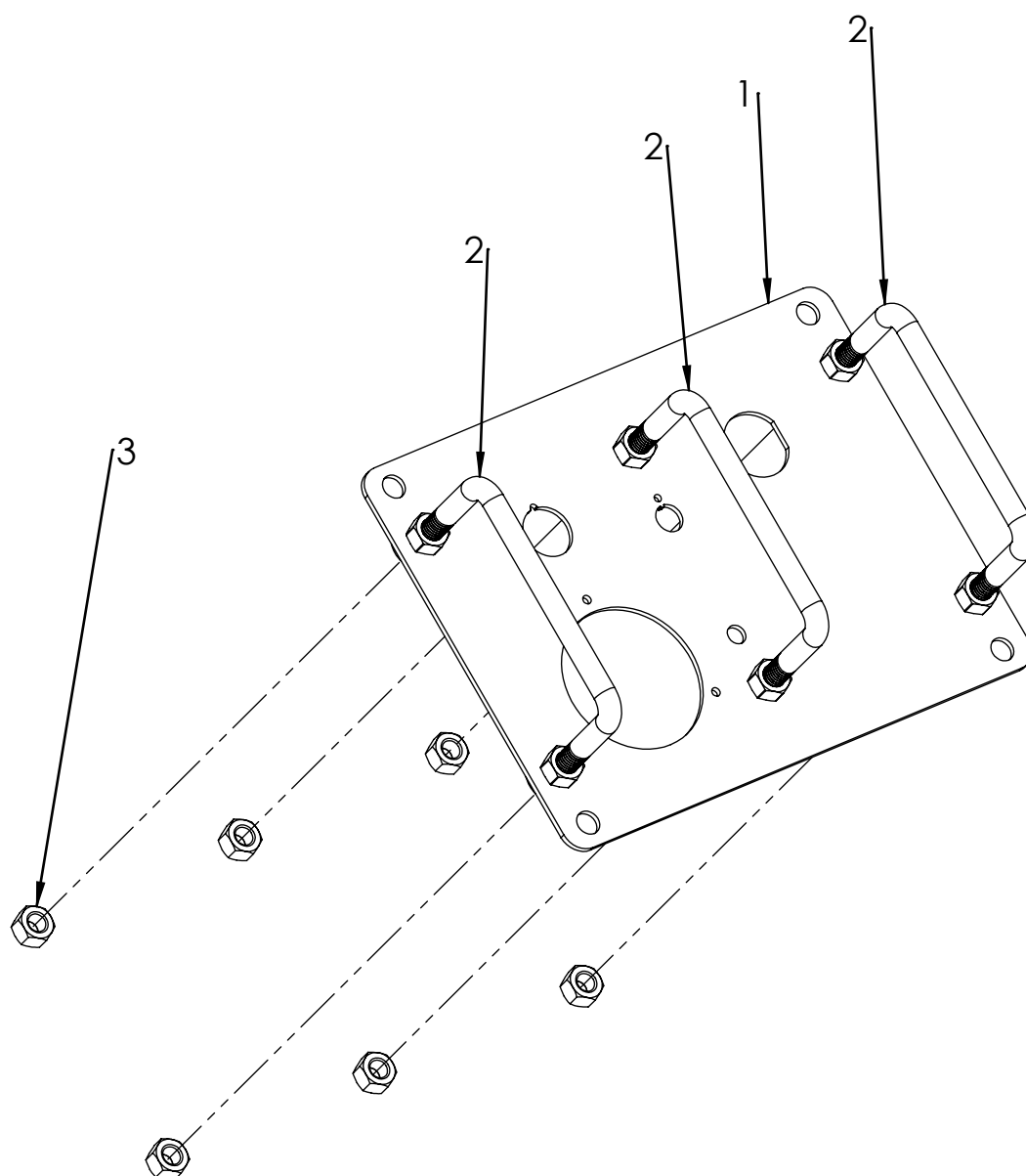
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Notes

CONTROL COMPONENTS

Control Panel Handles

HB175



Control Panel Handles

HB175

Bom ID	Part No	Description	Qty	Remarks
1	930-1060	CONTROL PANEL	1	
2	930-1077	U-BOLT, 3/8-16 X 2-5/8" L X 4" W	3	
3	06TLN	NUT, 3/8-16 HEX	6	

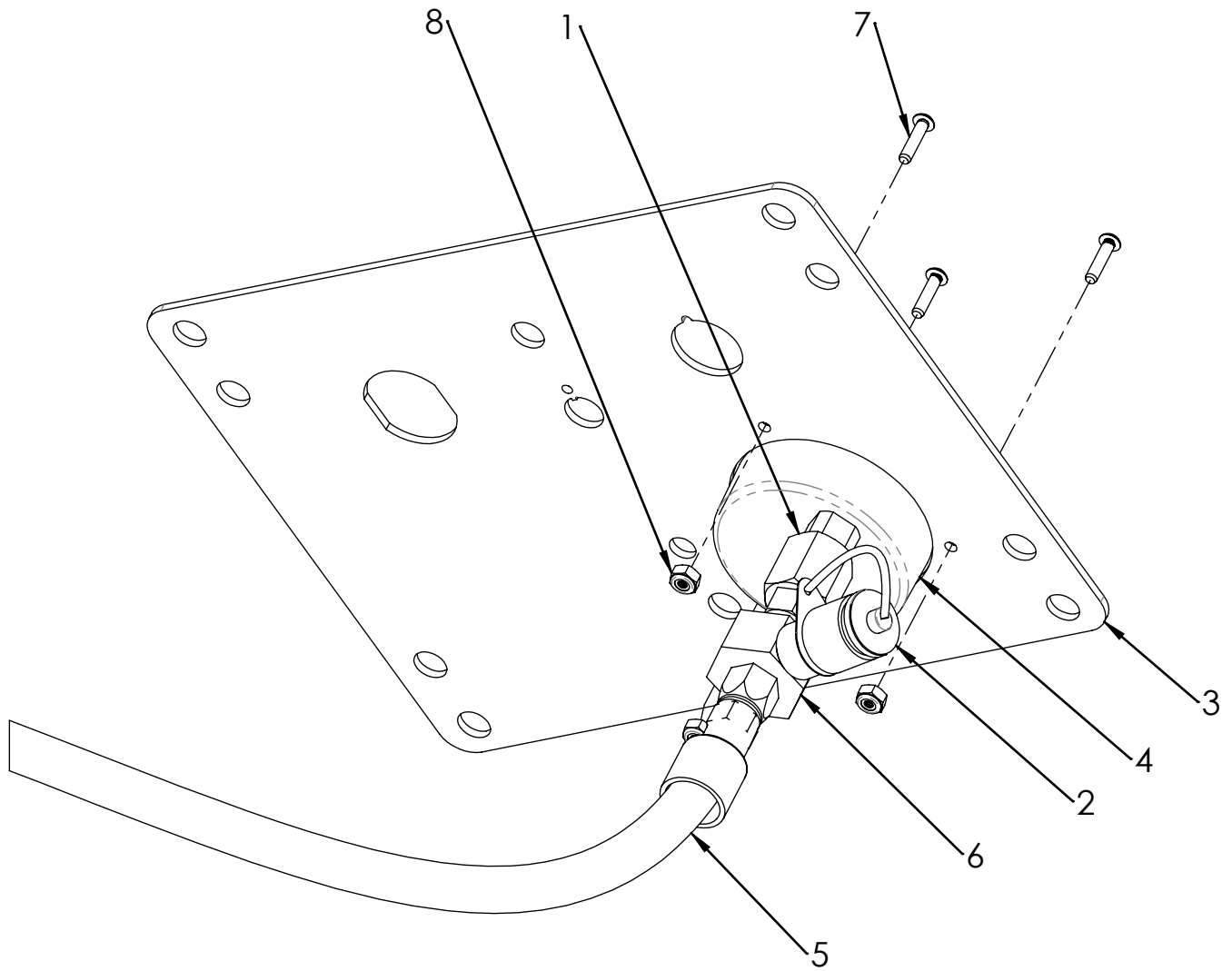
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Notes:

Control Panel—Pressure Gauge

HB175



Control Panel—Pressure Gauge

HB175

Bom ID	Part No	Description	Qty	Remarks
1	926-3503	ADAPTER, 4MJ X 4FP	1	
2	926-7504	TEST PORT COUPLING	1	
3	930-1060	CONTROL PANEL	1	
4	930-2059	PRESSURE GAUGE, 5000 PSI	1	
5	H-01215	HOSE, 4FJ-8FO90S x 34	1	
6	6564-04X04X04	GAUGE PORT, 04MJ X 04FJ	1	
7	#6BH10	SCREW, #6-32 X .625 BHSC	3	
8	#6NLN	NUT, #6-32 NYLON INSERT LOCK	3	

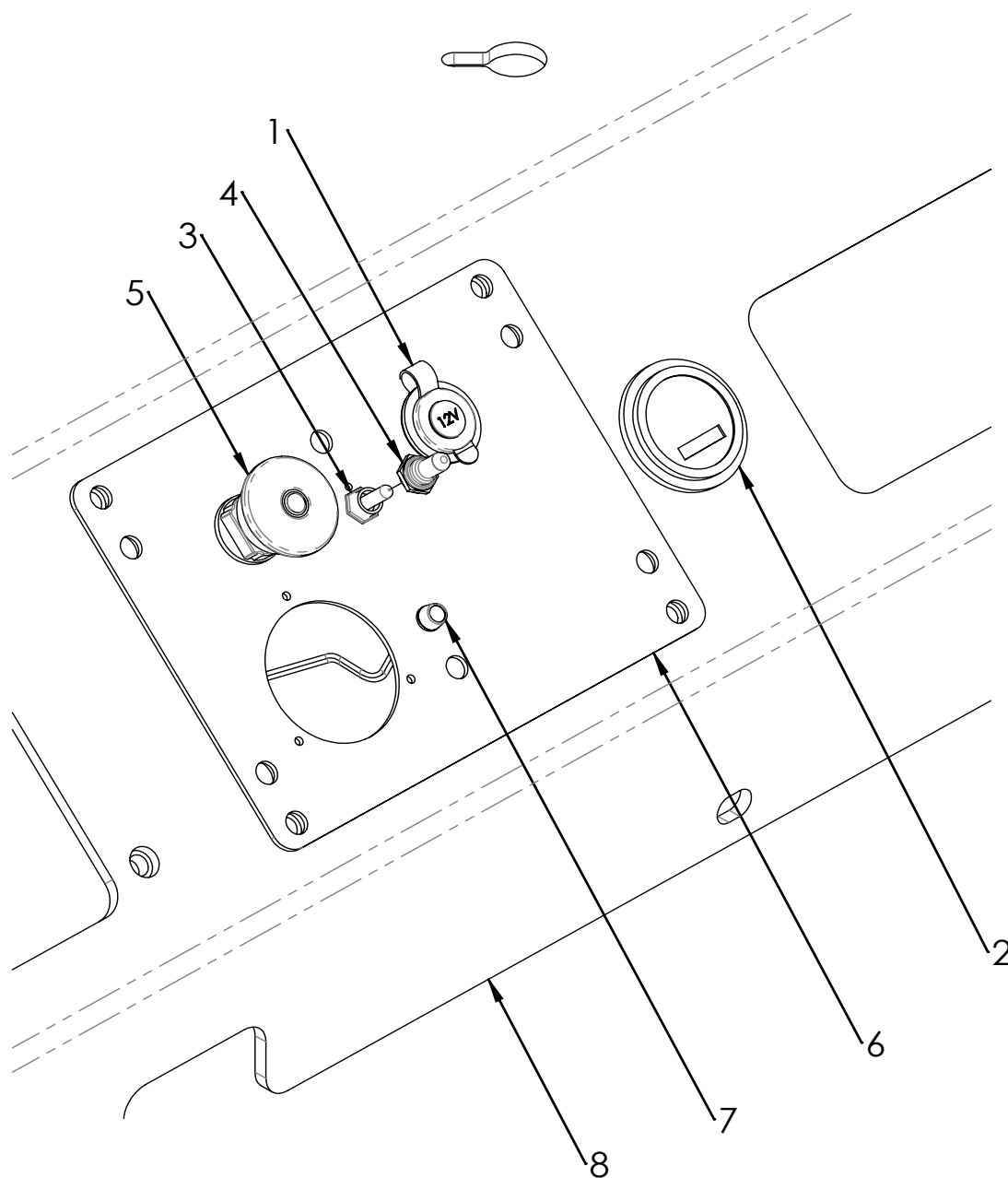
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Notes:

Control Panel—Electrical

HB175



Control Panel—Electrical

HB175

Bom ID	Part No	Description	Qty	Remarks
1	912-0939	RECEPTACLE 12VDC	1	
2	912-3607	HOUR METER	1	
3	912-3617	SWITCH, TOGGLE SPST	1	
4	912-3618	TOGGLE BOOT	1	
5	913-8650	SWITCH, DUAL LOGIC STOP	1	
6	930-1060	CONTROL PANEL	1	
7	930-1076	LIGHT, LED - GREEN	1	
8	931-1053	WELDMENT, ROD BOX TRAY	1	

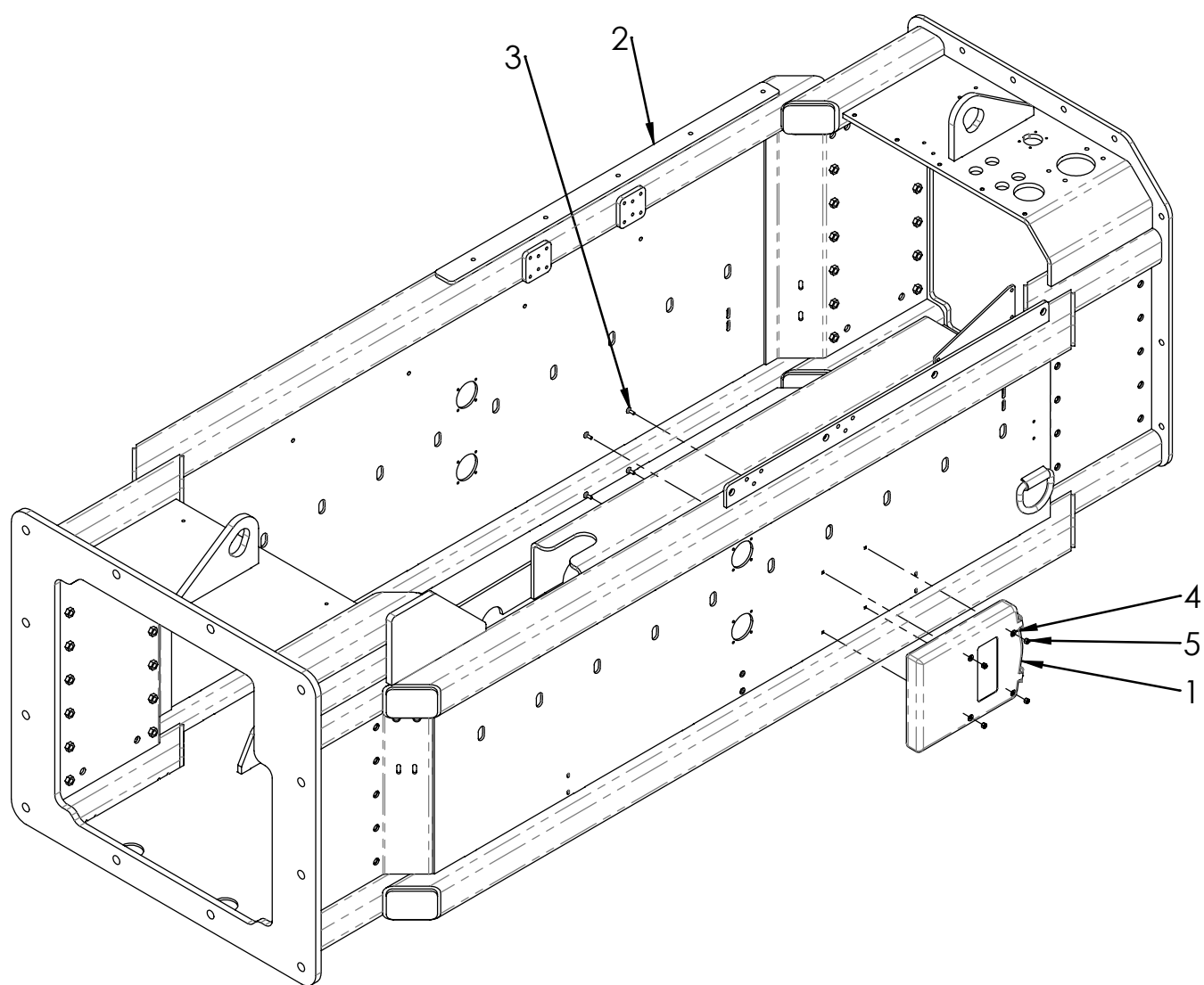
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Notes:

Manual Compartment

HB175



Manual Compartment

HB175

Bom ID	Part No	Description	Qty	Remarks
1	318-588	MANUAL COMPARTMENT	1	
2	931-1089	HULL (RED)	1	
3	04CB12	BOLT, 1/4-20 x .75 CARRIAGE	4	
4	04FW-SAE	WASHER, 1/4"	4	
5	04TLN	NUT, 1/4-20 TOP LOCK	4	

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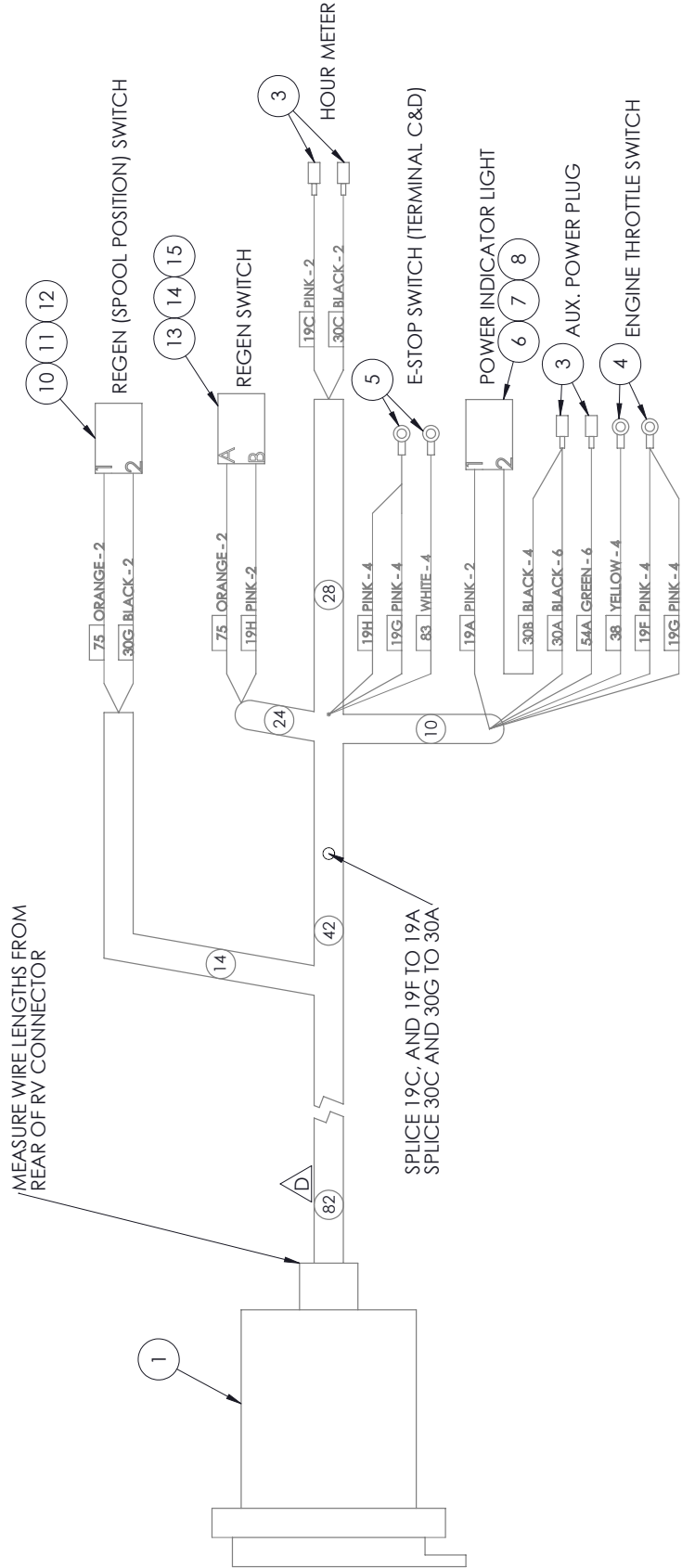
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Notes

ELECTRICAL

Electrical Schematic—Wire Harness

HB175



Electrical Schematic—Wire Harness

HB175

Bom ID	Part No	Description	Qty	Remarks
1	WAYTEK #37676	POLLACK 7-CIRCUIT RV TRAILER SOCKET	1	
2				
3	AMP 63097-1	FEMALE .25 POSITIVE LOCK TERMINAL (14 - 18 GA.)	4	
4	SAE B102 EYELET	#6 SCREW 14-16 GA. WIRE	2	
5	SAE B102 EYELET	#8 SCREW 14-16 GA. WIRE	2	
6	DT04-2P	DEUTSCH 2-WAY RECEPTICLE	1	
7	0460-215-16141	DEUTSCH 14-16 GA. PIN	2	
8	W2P	DEUTSCH 2-WAY LOCK	1	
9				
10	DT06-2S	DEUTSCH 2-WAY PLUG	1	
11	W2S	DEUTSCH 2-WAY LOCK	1	
12	0462-209-16141	DEUTSCH 14 - 16 GA. SOCKET	2	
13	12015792	WEATHERPACK 2-WAY TOWER	1	
14	12010182	WEATHER PACK 14-16 GA. SOCKET	2	
15	12015284	WEATHER PACK 14-16 GA. WIRE SEAL	2	

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Footnotes:

Notes:

Wire Harness Circuit List

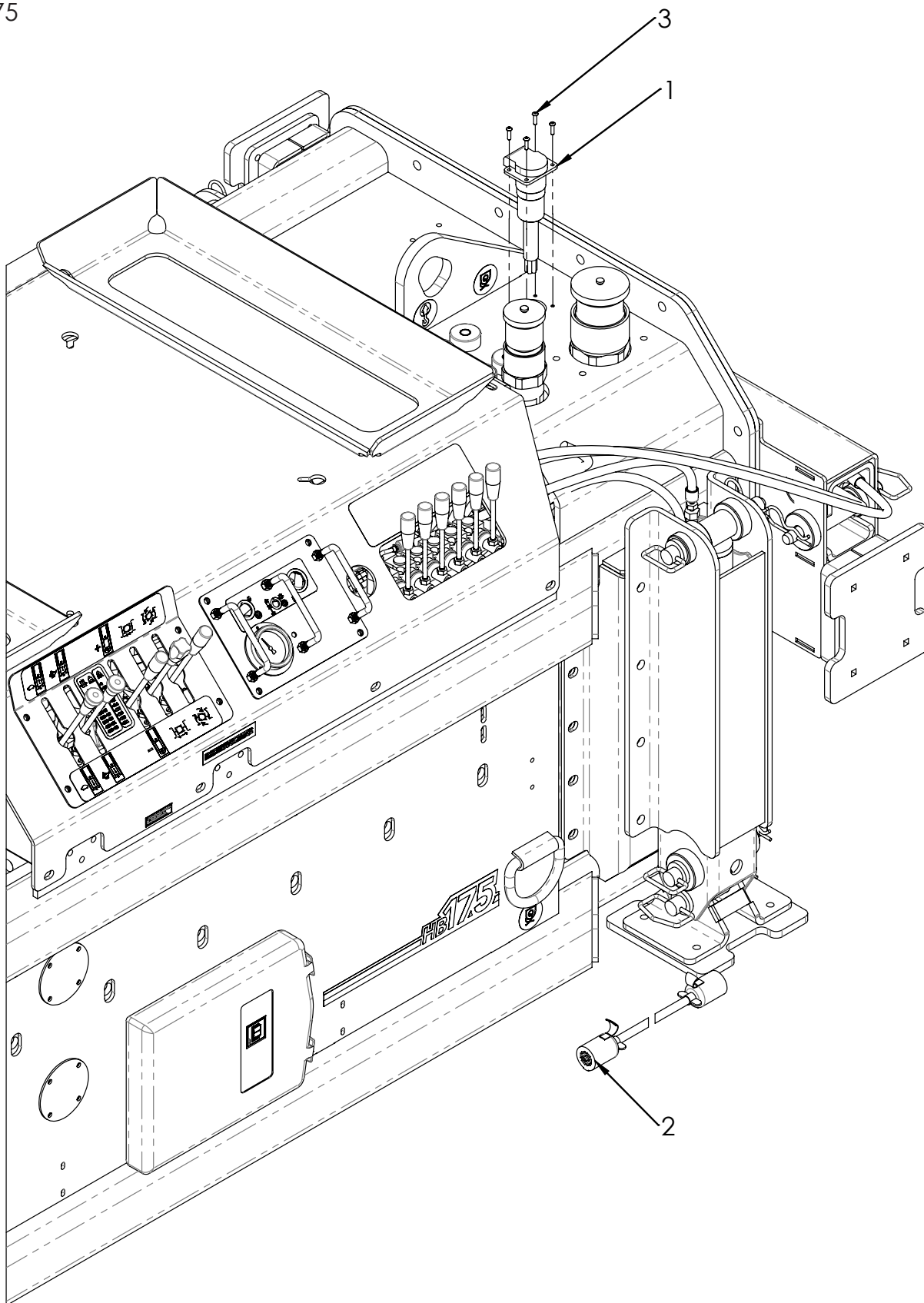
HB175

No.	Color	Gauge	From	To
19A	PINK	16	RV SOCKET "RD"	INDICATOR LIGHT POWER
19C	PINK	16	HOURLMETER POWER	SPLICE TO 19A
19F	PINK	16	ENGINE THROTTLE SWITCH	SPLICE TO 19A
19G	PINK	16	E-STOP SWITCH POWER	ENGINE THROTTLE SWITCH
19H	PINK	16	REGEN SWITCH "C"	E-STOP SWITCH POWER
30A	BLACK	14	RV SOCKET "BK"	AUX. POWER PLUG GROUND
30B	BLACK	16	AUX POWER PLUG GROUND	INDICATOR LIGHT GROUND
30C	BLACK	16	HOURLMETER GROUND	SPLICE TO 30A
30G	BLACK	16	POPPET VALVE "B"	SPLICE TO 30A
38	YELLOW	16	RV SOCKET "YL"	ENGINE THROTTLE SWITCH
54A	GREEN	14	RV SOCKET "GR"	AUX. POWER PLUG POWER
75	ORANGE	16	REGEN SWITCH "A"	POPPET VALVE "A"
83	WHITE	16	RV SOCKET "WH"	E-STOP SWITCH SIGNAL

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Wire Harness to Hull

HB175



Wire Harness to Hull

HB175

Bom ID	Part No	Description	Qty	Remarks
1	931-1095	WIRE HARNESS, HB100/125/175	1	
2	933-5010	CORD, ELECTRICAL CONTROL - METAL BODY	1	
3	#10BH12	SCREW, #10-24x0.75 BHSC	4	

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Footnotes:

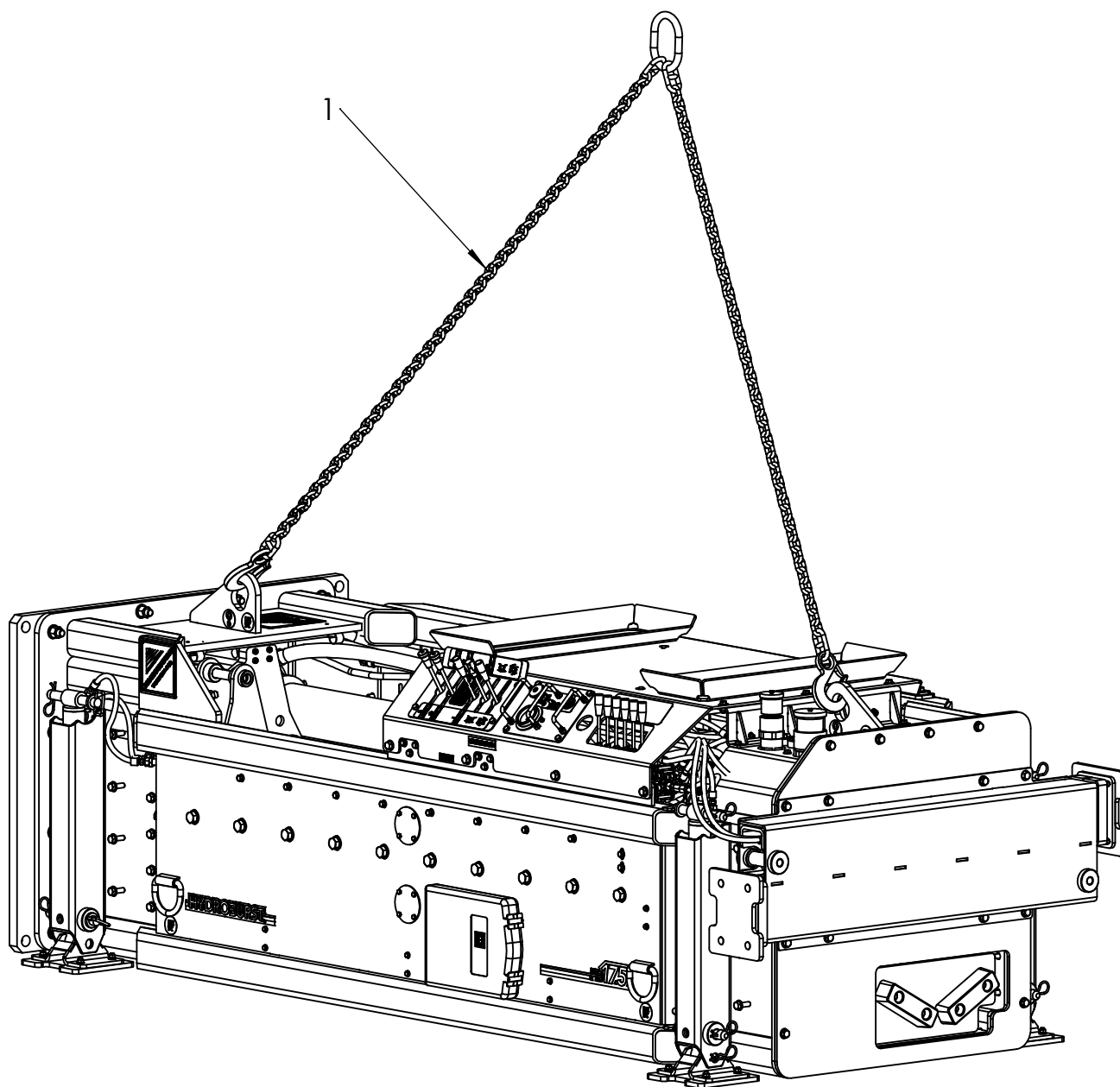
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Notes

MISCELLANEOUS

Sling - 2 Leg

HB175



Sling - 2 Leg
HB175

Bom ID	Part No	Description	Qty	Remarks
1	913-8781	SLING - 2 LEG	1	

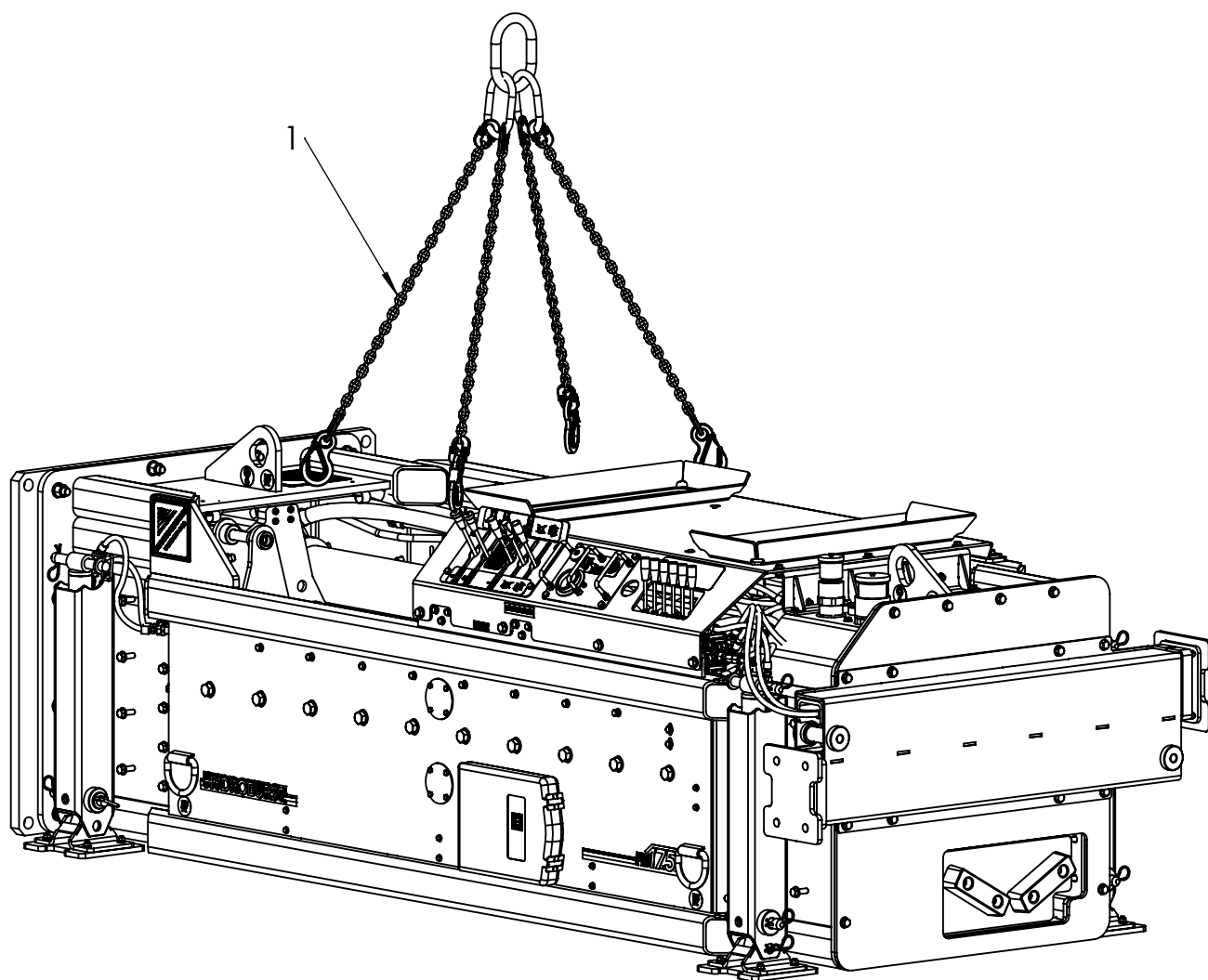
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Notes:

Chain Sling

HB175



Chain Sling

HB175

Bom ID	Part No	Description	Qty	Remarks
1	913-0300	CHAIN SLING, 9/32 X 40	1	

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Footnotes:

Notes:

SAE Bolt and Nut Torque Value Chart

Grade 5: UNC or UNF Thread

Size	Coarse		Fine	
	ft-lb	N-m	ft-lb	N-m
1/4	6	8.5	8	11
5/16	13	18	15	20.5
3/8	25	35	30	40
7/16	40	55	45	60
1/2	60	80	70	95
9/16	90	120	950	130
5/8	120	165	145	200
3/4	210	285	240	325
7/8	320	435	350	475
1	480	650	560	760
1-1/8	700	950	780	1060
1-1/4	1020	1385	1100	1545

Grade 8: UNC or UNF Thread

Size	Coarse		Fine	
	ft-lb	N-m	ft-lb	N-m
1/4	10	13	11	15
5/16	20	27	22	29.5
3/8	35	47	40	55
7/16	55	75	65	88
1/2	90	120	95	130
9/16	120	165	135	185
5/8	180	245	195	265
3/4	300	405	340	460
7/8	500	680	560	760
1	800	1085	920	1250
1-1/8	1180	1600	1340	1815
1-1/4	1720	2330	1900	2575

Metric Bolt and Cap Screw Torque Values

Size	Class 4.8				Class 8.8 and 9.8				Class 10.9				Class 12.9			
	Lubricated		Dry		Lubricated		Dry		Lubricated		Dry		Lubricated		Dry	
	N-m	ft-lb	N-m	ft-lb	N-m	ft-lb	N-m	ft-lb	N-m	ft-lb	N-m	ft-lb	N-m	ft-lb	N-m	ft-lb
M6	4.8	3.5	6	4.5	9	6.5	11	8.5	13	9.5	17	12	15	11.5	19	14.5
M8	12	8.5	15	11	22	16	28	20	32	24	40	30	37	28	47	35
M10	23	17	29	21	43	32	55	40	63	47	80	60	75	55	95	70
M12	40	29	50	37	75	55	95	70	110	80	140	105	130	95	165	120
M14	63	47	80	60	120	88	150	110	175	130	225	165	205	150	260	190
M16	100	73	125	92	190	140	240	175	275	200	350	225	320	240	400	300
M18	135	100	175	125	260	195	330	250	375	275	475	350	440	325	560	410
M20	190	140	240	180	375	275	475	350	530	400	675	500	625	460	800	580
M22	260	190	330	250	510	375	650	475	725	540	925	675	850	625	1075	800
M24	330	250	425	310	650	475	825	600	925	675	1150	850	1075	800	1350	1000
M27	490	360	625	450	950	700	1200	875	1350	1000	1700	1250	1600	1150	2000	1500
M30	675	490	850	625	1600	950	1650	1200	1850	1350	2300	1700	2150	1600	2700	2000
M33	900	675	1150	850	1750	1300	2200	1650	2500	1850	3150	2350	2900	2150	3700	2750
M36	1150	850	1450	1075	2250	1650	2850	2100	3200	2350	4050	3000	3750	2750	4750	3500

Do not use these values if a different torque value or tightening procedure is given for specific application. Torque values listed are for general use only. Check tightness of fasteners periodically.

Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical property class fasteners.

Fasteners should be replaced with the same or higher property class. If higher property class fasteners are used, these should only be tightened to strength of original.

Make sure fastener threads are clean and that the threads are properly started. This will prevent them from cross threading or galling when tightened.

Tighten plastic insert or crimped type steel locknuts to approximately 50% of dry torque indicated on chart. Apply torque to the nut – not the bolt head. Tighten toothed or serrated type locknuts to full torque value.

LUBRICATED means coated with lubricant. DRY means plain or zinc plated without any type of lubricant.

Torque Standards Hydraulic Fittings

O-Ring Boss Fittings

						ASSEMBLY TORQUE (+10% -0)							
DASH SIZE	NOMINAL SIZE (IN)	SAE SIZE	FEMALE THREAD	MALE THREAD	O-RING	O-RING BOSS		O-RING BOSS		HOLLOW HEX		HEX HEAD	
						NON-ADJUSTABLE		ADJUSTABLE		PLUGS			
			I.D. (IN)	O.D. (IN)	I.D. (IN)	ft-lbs (in-lbs)	N-m	ft-lbs (in-lbs)	N-m	ft-lbs (in-lbs)	N-m	ft-lbs (in-lbs)	N-m
-2	1/8	5/16-24	17/64	5/16	17/64	-	-	-	-	(30)	4	(85)	10
-3	3/16	3/8-24	21/64	3/8	21/64	-	-	-	-	(55)	6	(155)	18
-4	1/4	7/16-20	25/64	7/16	25/64	26	35	(180)	20	(120)	14	22	29
-5	5/16	1/2-20	29/64	1/2	29/64	30	40	30	40	(170)	19	23	32
-6	3/8	9/16-18	1/2	9/16	1/2	35	46	35	46	34	46	29	40
-8	1/2	3/4-16	11/16	3/4	11/16	60	80	60	80	60	80	52	70
-10	5/8	7/8-14	13/16	7/8	13/16	100	135	100	135	100	135	85	115
-12	3/4	1-1/16-12	31/32	1-1/16	31/32	135	185	135	185	135	185	135	183
-14	7/8	1-3/16-12	1-7/64	1-3/16	1-7/64	175	235	175	235	175	235	175	237
-16	1	1-5/16-12	1-15/64	1-5/16	1-15/64	200	270	200	270	200	270	200	271
-20	1-1/4	1-5/8-12	1-35/64	1-5/8	1-35/64	250	340	250	340	250	340	250	339
-24	1-1/2	1-7/8-12	1-51/64	1-7/8	1-51/64	305	415	305	415	305	415	305	414
-32	2	2-1/2-12	2-27/64	2-1/2	2-27/64	375	510	375	510	375	510	375	509

O-Ring Face Seal Fittings

DASH SIZE	NOMINAL SIZE (IN)	THREAD SIZE	FEMALE THREAD	MALE THREAD	ASSEMBLY TORQUE (+10% -0) (PRIMARY METHOD)		FLATS FROM WRENCH RESISTANCE (FFWR) (SECONDARY METHOD)		O-RING
					ft-lb	N-m	TUBE NUTS	SWIVEL & HOSE	
			I.D. (IN)	O.D. (IN)					I.D. (IN)
-4	1/4	9/16-18	1/2	9/16	18	25	1/2	3/4	5/16
-6	3/8	11/16-16	11/16	11/16	30	40	1/2	3/4	3/8
-8	1/2	13/16-16	3/4	13/16	40	55	1/2	3/4	1/2
-10	5/8	1-14	13/16	1	60	80	1/2	3/4	5/8
-12	3/4	1-3/16-12	1-7/64	1-3/16	85	115	1/2	1/2	3/4
-16	1	1-7/16-12	1-23/64	1-7/16	110	150	1/2	1/2	15/16
-20	1-1/4	1-11/16-12	1-19/32	1-11/16	150	205	1/2	1/2	1-3/16
-24	1-1/2	2-12	1-59/64	2	230	315	1/2	1/2	1-1/2

Ensure the threads and sealing surfaces are free from nicks, burrs, scratches or any foreign material. Lubricate the o-ring with a light coat of oil. To tighten adjustable o-ring fittings, hold the fitting and tighten the nut. To tighten non-adjustable o-ring fittings, tighten the fitting. When tightening together fittings with dissimilar coatings, torque to 115% of maximum recommended torque value for a given size.

Torque Standards Hydraulic Fittings

Pipe Fittings

Nom. SAE Dash Size	Fractional Size	Threads per Inch	Turns from Finger Tight
2	1/8	27	2-3
4	1/4	18	2-3
6	3/8	18	2-3
8	1/2	14	2-3
12	3/4	14	2-3
16	1	11-1/2	1.5-2.5
20	1-1/4	11-1/2	1.5-2.5
24	1-1/2	11-1/2	1.5-2.5
32	2	11-1/2	1.5-2.5



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