

RIDING TROWEL

HDX600



PARTS & DECALS MANUAL

Manual Part #: 073422P | Revision: B
Language: English | Original Instructions



For information regarding the following, please see the “HDX600 - Safety & Operator Manual”

- Warranty Information
- Dealer Information
- How to identify the Model / Serial Numbers on the machine
- Engine Detail

HDX600 RIDING TROWEL

PARTS & DECAL

MANUAL

This manual covers the products listed below:

<u>Part No.</u>	<u>Description</u>
074140	HDX600 Riding Trowel, HATZ 50HP Diesel T4, 8ft, 6-Boss

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SECTION 1 PARTS

SECTION 1 PARTS

Factory Service Information

This section contains the illustrated drawings and parts list for help in identifying and/or ordering replacement parts for your machine. Follow the instructions in the front section of this manual “Ordering Parts” when ordering replacement parts to ensure prompt and accurate delivery.

NOTE

All set screws have blue (LOC-TITE™) applied at the factory. If set screw is removed or loosened for any reason re-apply blue (LOC-TITE™).

NOTE

All grease fittings are capped with CAP PLUG GC-5 (AEC PN 015692) to protect the fitting. If cap becomes missing or damaged replace it as soon as possible.

NOTE

Anti-Seize is applied at the factory to all drive line coupling, gear box main and counter shafts and pitch control threaded rod assemblies. If these parts are disassembled re-apply a light coat of a graphite based anti-seize.

**ALL REFERENCES MADE TO LEFT/RIGHT SIDES IN THIS MANUAL ARE SITTING ON MACHINE (SOM)
[i.e. Left / Right are in reference from a sitting position on the machine]**

We recommend AEC quality replacement parts, available from the AEC Customer Service Department or your nearest AEC Dealer.

Part numbers are subject to change without notice. Part numbers might be different outside of the United States of America. Use part numbers listed in the applicable parts list table when you place your order. If a part number changes, the AEC Customer Service Department or your nearest AEC dealer will have the latest part number for the replacement part.

Remember when you order replacement parts, you will need your **MODEL NUMBER** and **SERIAL NUMBER**. These are the numbers that you have recorded in the UNIT ID section of the “Safety and Operations Manual” or by looking on the unit Identification Plate. Please order replacement parts by the appropriate part number, not the item number.

This manual contains an illustrated parts list for help in ordering replacement parts for your machine. Follow the instructions below when ordering parts to ensure prompt and accurate delivery:

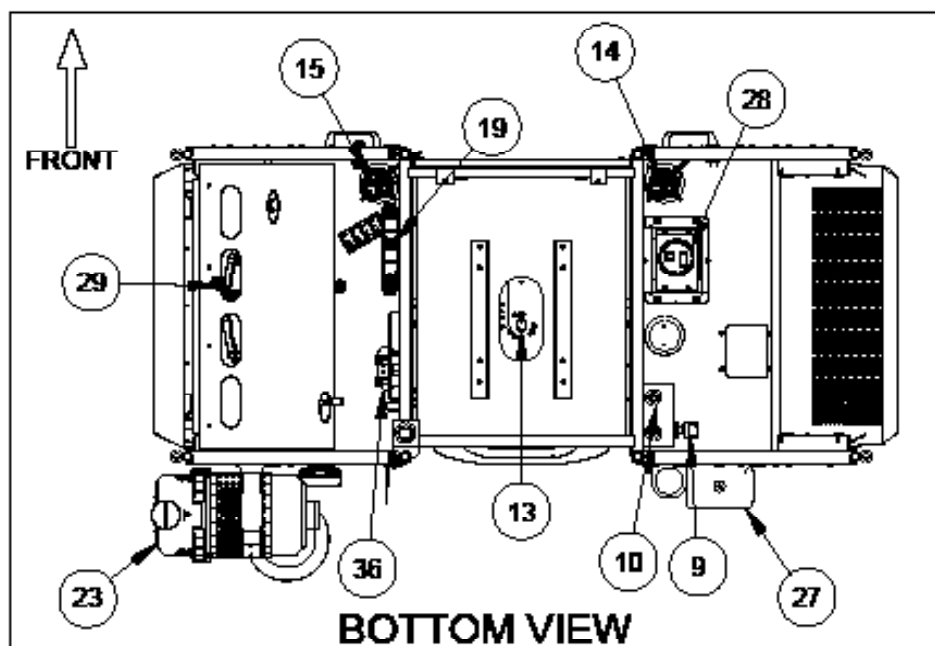
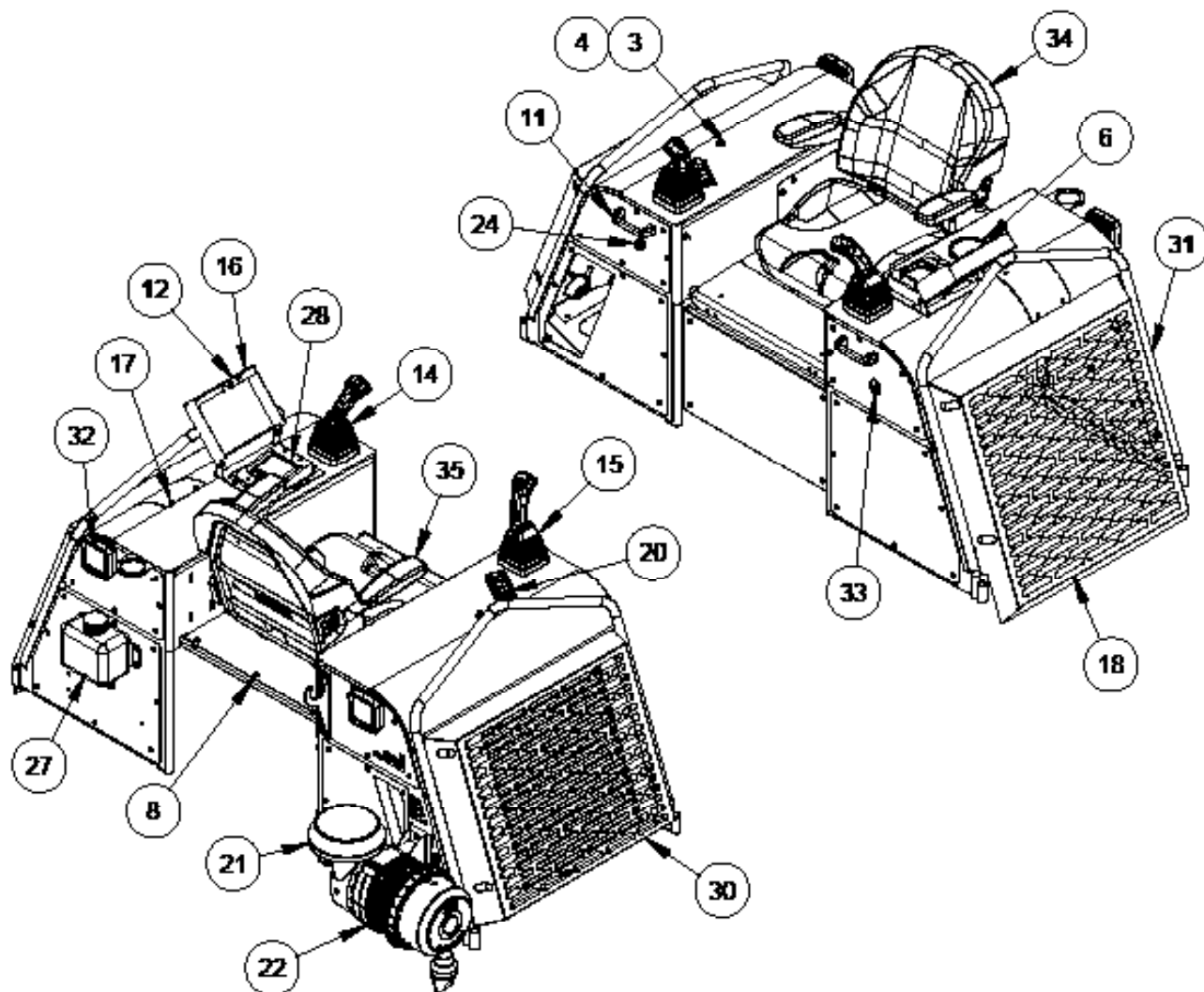
1. All orders for service parts - include the serial number for the machine. Shipment will be delayed if this information is not available.
2. Include correct description and part number
3. Specify exact shipping instructions, including the preferred routing and complete destination address.
4. **DO NOT** return parts to AEC without receiving written authorization from AEC. All authorized returns must be shipped pre-paid.
5. When placing an order, please contact the AEC Dealer nearest you.

NOTE

All information, specifications, and illustrations in this manual are subject to change without notice and are based on the latest information at the time of publication.

SECTION 1 PARTS

Seat Frame Assembly



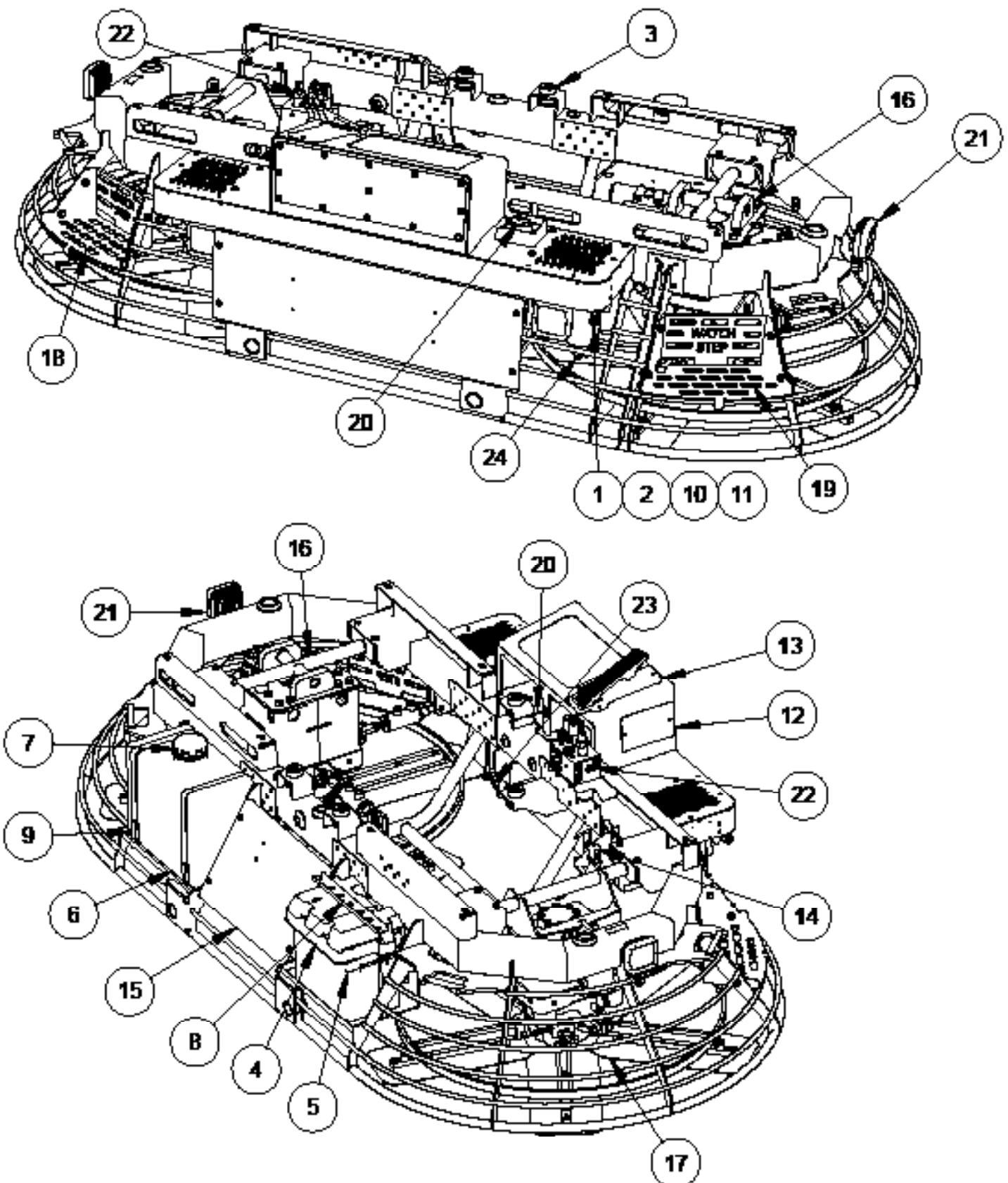
Seat Frame Assembly

SECTION 1 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
-	068180	Assembly, Seat Frame, HDX600	-
1	-	REPLACEMENT - Relay, Module (Not Shown)	4
2	034524	REPLACEMENT - Fuse, 20 Amp (Not Shown)	4
3	034610	Socket, Base, Lamp, T-2	1
4	034614	Lens, Lamp, Red, Jeweled	1
5	036554	REPLACEMENT - Fuse, 5 Amp (Not Shown)	6
6	041537	Cup Holder	1
7	043481	REPLACEMENT - Fuse, 10 Amp (Not Shown)	2
8	047885	Bumper, Rubber	3
9	047886	Cap, Filler Breather	1
10	048595	Tank, Vent	1
11	048678	Handle, Nylon	2
12	056920	Latch, Magnetic	1
13	061374	REPLACEMENT - Switch, Seat, Shut-Off	1
14	064510	Joystick, Left Hand	1
-	052691	REPLACEMENT - Joystick, Left Hand, Upper Handle ONLY (Not Shown)	-
15	064511	Joystick, Right Hand	1
-	052690	REPLACEMENT - Joystick, Right Hand, Upper Handle ONLY (Not Shown)	-
16	064526	Weldment, Cover, Murphy Engine Controller	1
17	064528	Cover, Radiator Access Point	1
18	064760	Guard, End Seat Frame	1
19	065139	Plug, Controller, for Engine	1
20	065143	Kit, Block, 4-Switch	1
21	065188	Bonnet, Air, for Hatz xH50 Engine	1
22	065189	Band, for Hatz xH50 Air Cleaner	1
23	065190	Breather, for Hatz xH50 Air Cleaner	1
24	065191	Switch, Key, for Hatz xH50 Engine	1
-		REPLACEMENT - Key, for Hatz xH50 Engine (Not Shown)	1
25	065855	REPLACEMENT - Filter, Air, Secondary (Not Shown)	1
26	065856	REPLACEMENT - Filter, Air, Primary (Not Shown)	1
27	066028	Reservoir, Coolant Recover	1
28	066227	Controller, Murphy, PV380.2	1
29	066911	Assembly, Oil Cooler and Mounting Bracket	1
30	066913	Cover, Cooler, Right Hand	1
31	068320	Weldment, Seat Frame	1
32	069835	Light, LED, 1200 Lumens, 1.3 Amp, 12 VDC	2
33	069850	Receptacle, USB, 12 VDC	1
34	069874	Seat, Rider	1
35	069875	Arm Rest, Left / Right Combo, for seat 069874	1
36		REPLACEMENT - Fuse Block	1

SECTION 1 PARTS

Lower Unit Assembly



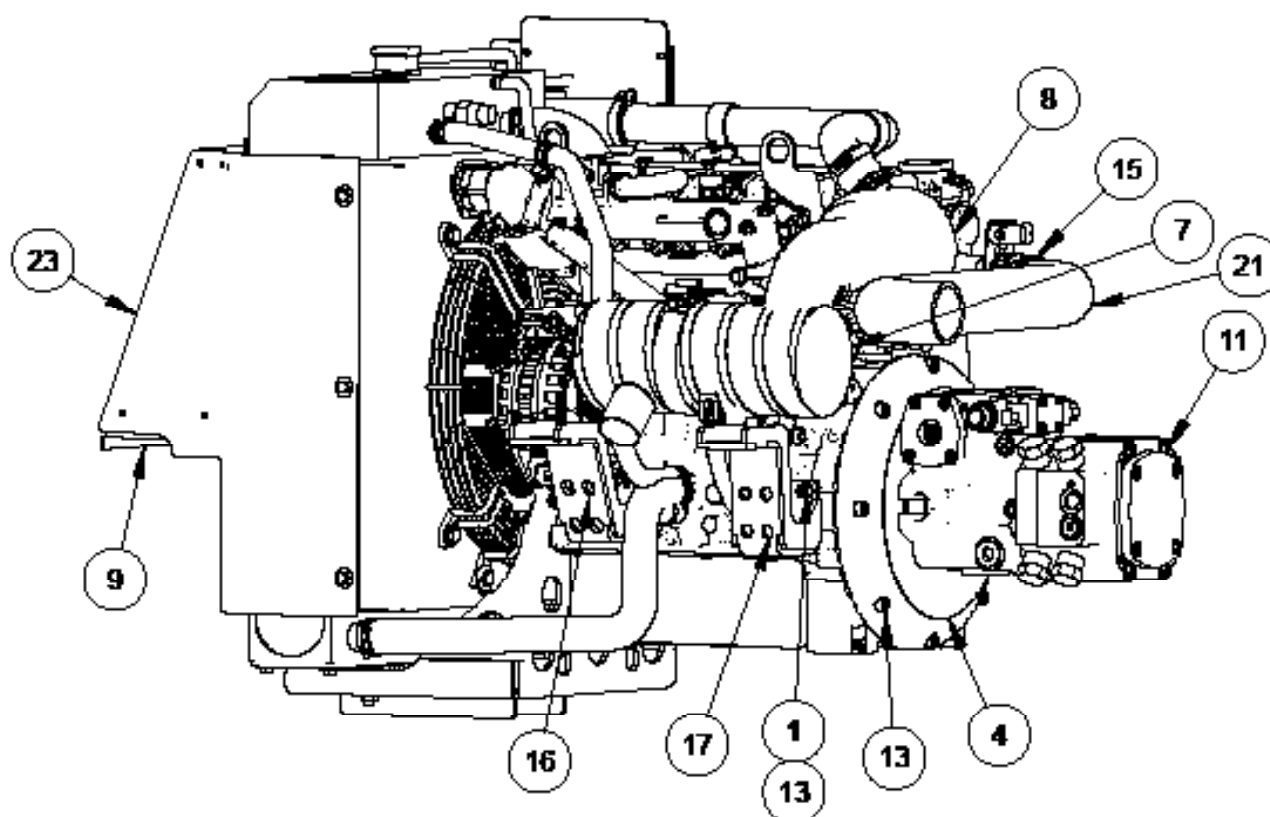
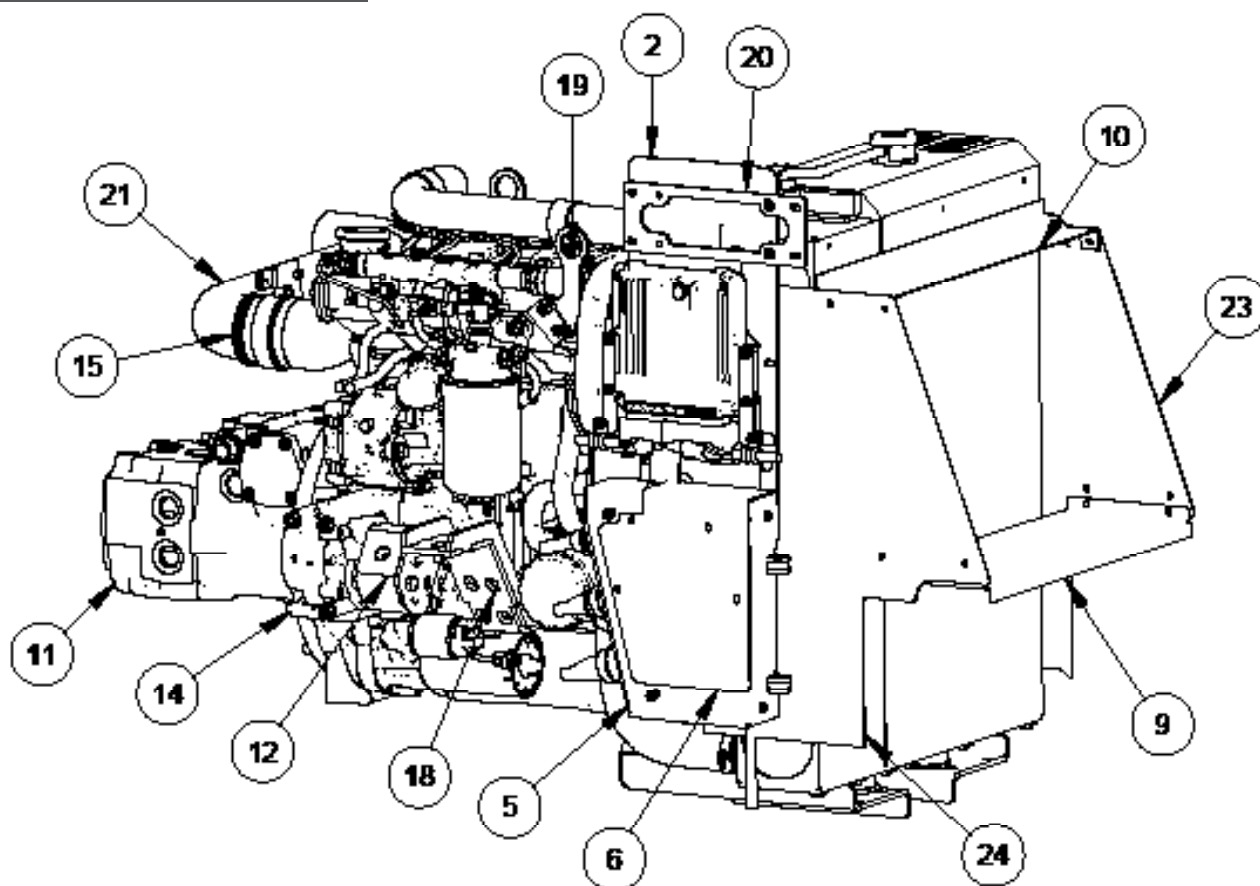
Lower Unit Assembly

SECTION 1 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
-	074142	Assembly, Main Frame, HDX600	-
1	012702	Tip, Brass, 80° x 0.10 GPM	2
2	012705	Retainer, Metal Spray Tip	2
3	045757	Isolator, Motor Mount	4
4	046696	Box, Battery	1
5	047604	Battery, 700CCA, 12V	1
6	047700	Tank, 6 Gallon, Water, Plastic	1
7	047701	Cap, 3-1/2", Vented Black	1
8	048563	Channel, Battery Hold-Down	1
9	048921	Strap, Tank	2
10	071531	Nozzle, Straight, Male	2
11	049982	Weldment, Spray Bracket, Left Hand	1
12	060492	Plate, Cover, Top Deck	1
13	063341	Pedal, Foot, Electronic	1
14	065141	Filter, High Pressure	1
15	066152	Panel, Rear Ring	1
16	074145	Assembly, Rotor, Left Hand	1
17	074144	Assembly, Rotor, Right Hand	1
18	068370	Weldment, Step, Right Hand	1
19	068375	Weldment, Step, Left Hand	1
20	069007	Assembly, Fuel Tank	1
21	069835	Light, LED, 1200 Lumens, 12 VDC, 1.3 AMP	4
22	069958	Manifold, Auxiliary	1
23	-	Pump, Fuel	1
24	065852	Filter, Fuel	1
25	065851	Pre-Filter, Fuel	1
26	064514	Bracket, Filter (NOT SHOWN)	1

SECTION 1 PARTS

Engine Assembly



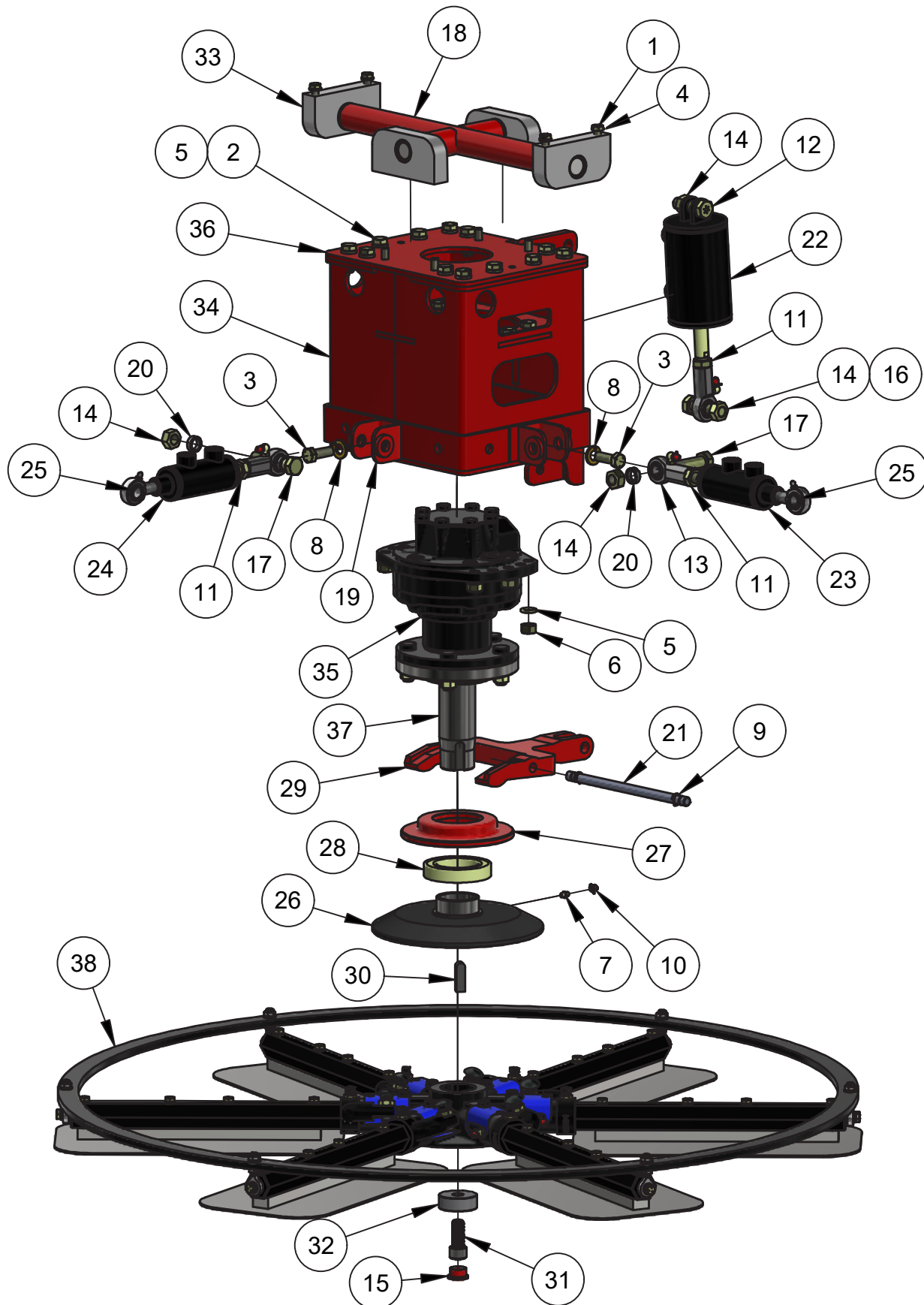
Engine Assembly

SECTION 1 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
-	068920	Assembly, Engine, HDX600	-
1	021072	Fastener, Washer, Lock, 10mm	9
2	061333	Mount, Fuse Panel and CPU	1
3	061334	Bracket, Fuse Panel and CPU	1
4	064357	Assembly, Housing and Coupling	1
5	064538	Weldment, Cover, Electrical Panel	1
6	064539	Cover, Outer Panel, for Engine Electrical Box	1
7	064872	Wrap, DOC	1
8	064873	Wrap, Turbo, Blanket	1
9	065126	Cover, Radiator Shroud, Bottom	1
10	065127	Cover, Radiator Shroud, Top	1
11	065138	Pump, Hydraulic, Piston, Single / Double	1
12	065140	Pump, Auxiliary	1
13	065243	Fastener, SHCS, M10 x 1.5 x 30mm	17
14	065398	Drive, Auxiliary	1
15	065570	Clamp, Hose	1
16	068287	Engine Mount, Rear, Left Hand	1
17	068293	Engine Mount, Rear, Right Hand	1
18	068296	Engine Mount, Front, Left Hand	1
19	068387	Engine, Hatz, 50HP, 3H50TIC-OPU	1
20	068875	Plate, Spacer, Controller Relocation	1
21	069233	Hose, for Air Intake	1
22	069399	Connector, Female, Fuel	4
23	069856	Cover, Radiator Shroud, Rear	1
24	069857	Cover, Radiator Shroud, Front	1

SECTION 1 PARTS

Rotor Assembly - Left Hand



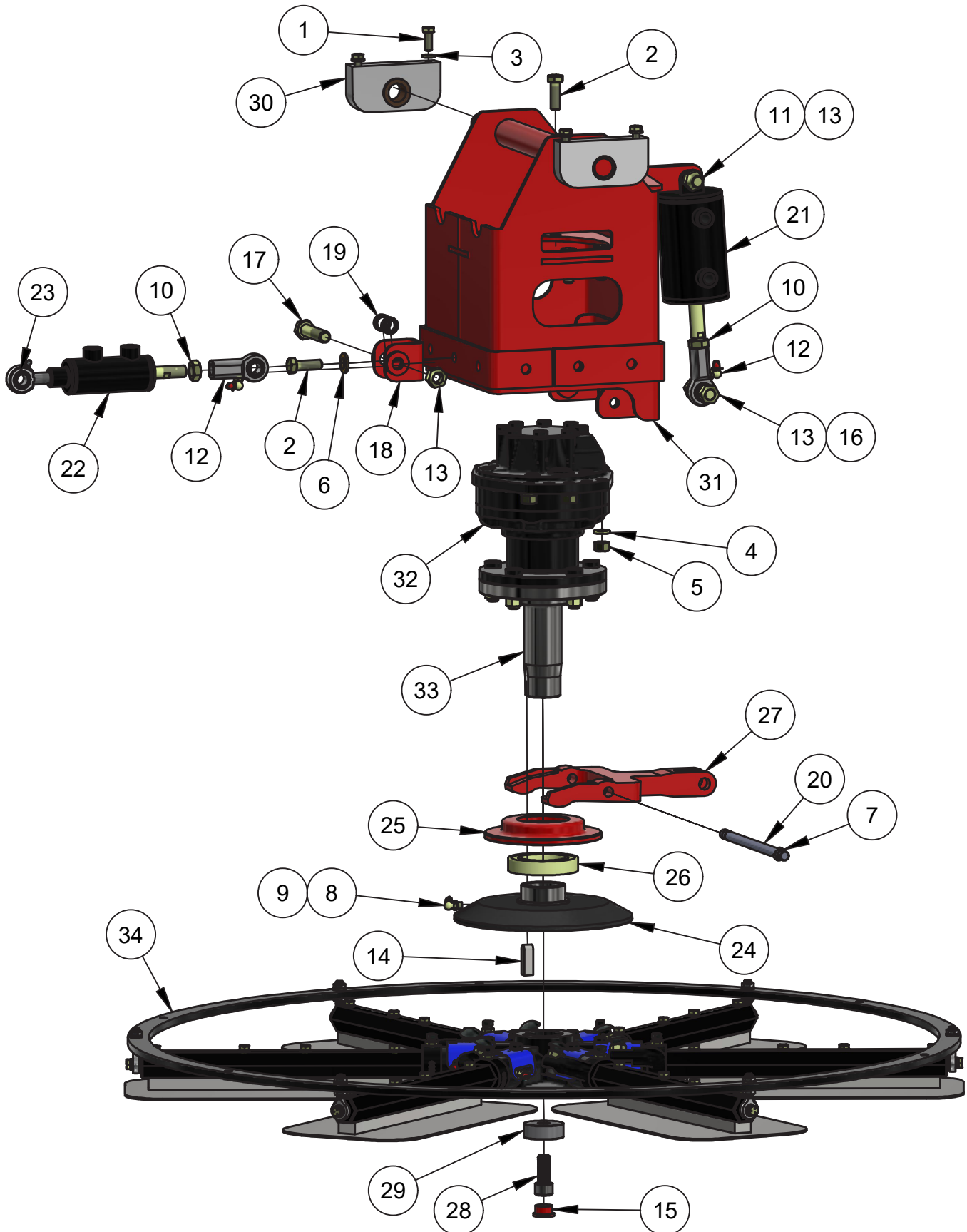
Rotor Assembly - Left Hand

SECTION 1 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
-	074145	Assembly, Rotor, Left Hand, HDX600	-
1	010036	Fastener, HHCS, 3/8"-16 x 1", Grade 8	8
2	010068	Fastener, HHCS, 1/2"-13 x 1-1/4", Grade 8	12
3	010069	Fastener, HHCS, 1/2"-13 x 1-1/2", Grade 8	8
4	010091	Fastener, Washer, Lock, 3/8", Grade 8	8
5	010093	Fastener, Washer, Lock, 1/2", Grade 8	18
6	010106	Fastener, Nut, Hex, 1/2"-13, Grade 8	6
7	010513	Fitting, Grease, 1/4"-08, Straight, Brass	1
8	011490	Fastener, Washer, Flat, 1/2", Grade 8	2
9	015677	Ring, Retaining, Ø7/16", E-Style	2
10	015692	Cap, Grease, Ø1/4", Red, Plastic	3
11	020688	Fastener, Nut, Hex, 5/8"-18, Right Hand, Grade 8	3
12	027969	Fastener, HHCS, 5/8"-18 x 2", Grade 8	1
13	043125	Rod, End, Female, 5/8"	3
14	043269	Fastener, Nut, Stover, 5/8"-18	4
15	046646	Plug, Cap, Threaded, 7/8"	1
16	047354	Fastener, HHCS, 5/8"-18 x 2-1/4", Grade 8	1
17	048339	Fastener, HHCS, 5/8"-18 x 3", Grade 8	2
18	048622	Weldment, Crosshead, Left/Right, Front/Rear	1
19	048624	Channel, Cylinder Rod End Connector	2
20	048627	Spacer, Steering Connection	1
21	048628	Pin, Yoke Arm	1
22	048659	Cylinder, Pitch, 3" Bore, 1-1/2" Stroke	1
23	048660	Cylinder, 1-1/2" x 5/8", Steering	1
24	048661	Cylinder, 1-1/2" x 1-1/4", Steering	1
25	048747	Rod, End, Male, 1/2"	2
26	049537	Plate, Pressure	1
27	049599	Cap, Bearing	1
28	049697	Bearing, Spider Assembly	1
29	049698	Pitch, Yoke Arm	1
30	050700	Key, for Rotor	1
31	064252	Fastener, SHCS, 5/8"-11 x 1-1/2", Right Hand Thread	1
32	064253	Washer, Retaining	1
33	064260	Assembly, Bearing	4
34	068031	Weldment, Mount, Left Hand, for Hydraulic Motor	1
35	068049	Motor, Hydraulic Piston	1
36	069549	Plate, Top, for 068031	1
37	069832	Shaft, Rotor, Left Hand	1
38	073512	Assembly, Lower Rotor, Left Hand, 6-Boss	1

SECTION 1 PARTS

Rotor Assembly - Right Hand



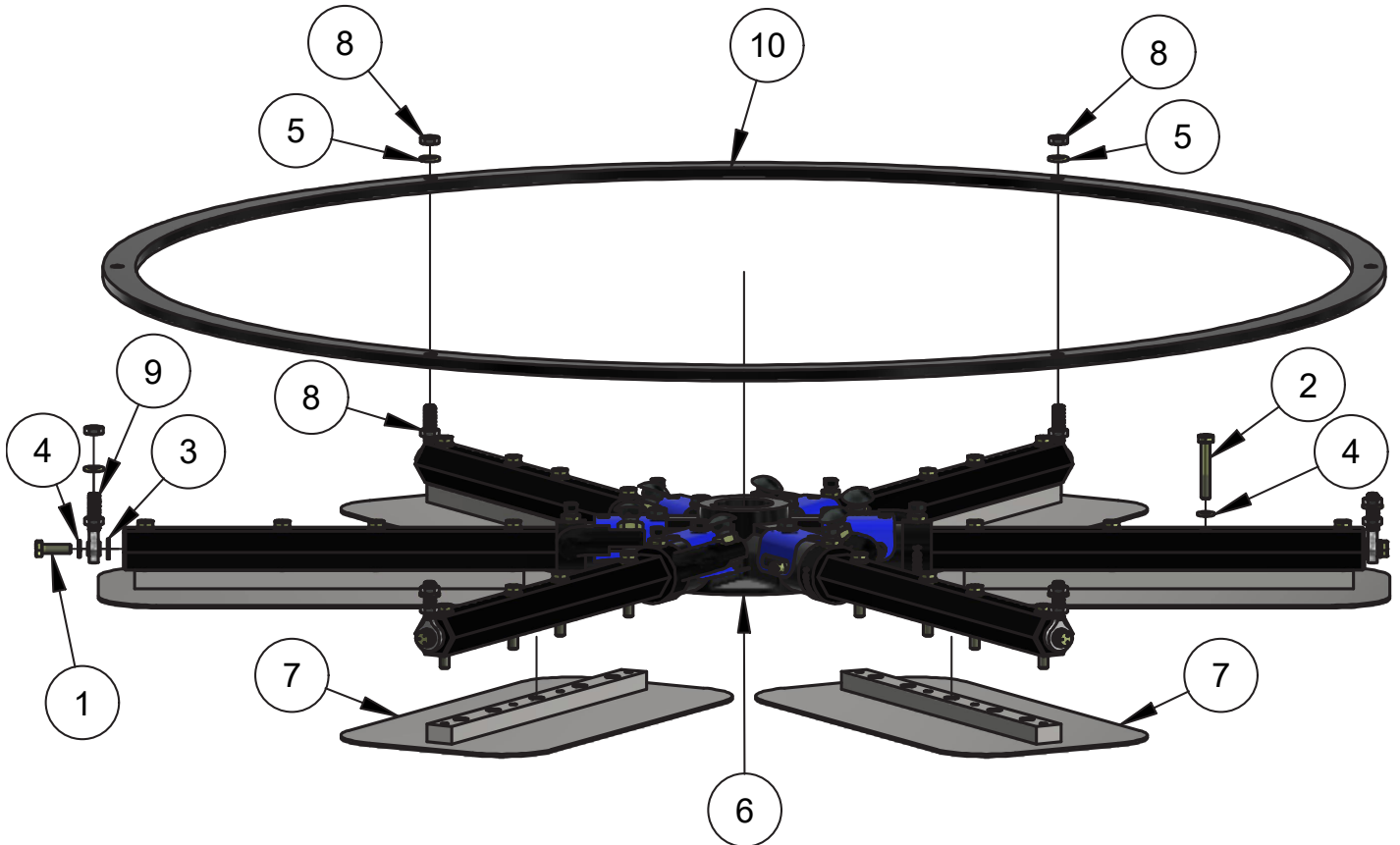
Rotor Assembly - Right Hand

SECTION 1 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
-	074144	Assembly, Rotor, Right Hand, HDX600	-
1	010036	Fastener, HHCS, 3/8"-16 x 1", Grade 8	4
2	010069	Fastener, HHCS, 1/2"-13 x 1-1/2", Grade 8	7
3	010091	Fastener, Washer, Lock, 3/8", Grade 8	4
4	010093	Fastener, Washer, Lock, 1/2", Grade 8	6
5	010106	Fastener, Nut, Hex, 1/2"-13, Grade 8	6
6	011490	Fastener, Washer, Flat, 1/2"	1
7	015677	Ring, Retaining, Ø7/16", E-Style	2
8	015681	Fitting, Grease, 1/8"-27 PTF, 90°	1
9	015692	Cap, Grease, Ø1/4", Plastic, Red	1
10	020688	Fastener, Nut, Hex, 5/8"-18, Grade 8	2
11	027969	Fastener, HHCS, 5/8"-18 x 2", Grade 8	1
12	043125	Rod, End, Female, 5/8"	2
13	043269	Fastener, Nut, Stover, 5/8"-18	3
14	046231	Key, Rotor Shaft	1
15	046646	Plug, Cap, 7/8", Threaded	1
16	047354	Fastener, HHCS, 5/8"-18 x 2-1/4", Grade 8	1
17	048339	Fastener, HHCS, 5/8"-18 x 3", Grade 8	1
18	048624	Channel, Cylinder Rod End Connector	1
19	048627	Spacer, Steering Connection	2
20	048628	Pin, Yoke Arm	1
21	048659	Cylinder, Pitch, 3" Bore, 1-1/2" Stroke	1
22	048661	Cylinder, Steering, 1-1/2" x 1-1/4"	1
23	048747	Rod, End, 1/2", Male	1
24	049537	Plate, Pressure, 6-Boss	1
25	049599	Cap, Bearing	1
26	049697	Bearing, Spider Assembly	1
27	049698	Arm, Yoke, Pitch	1
28	064251	Fastener, SHCS, 5/8"-11 x 1-1/2", Left Hand	1
29	064253	Washer, Retaining	1
30	064260	Bearing Assembly	2
31	068028	Mount, Hydraulic Motor, Right Hand	1
32	068049	Motor, Hydraulic Piston	1
33	069831	Shaft, for Hydraulic Motor, Right Hand	1
34	073513	Assembly, Lower Rotor, Right Hand, 6-Boss	1

SECTION 1 PARTS

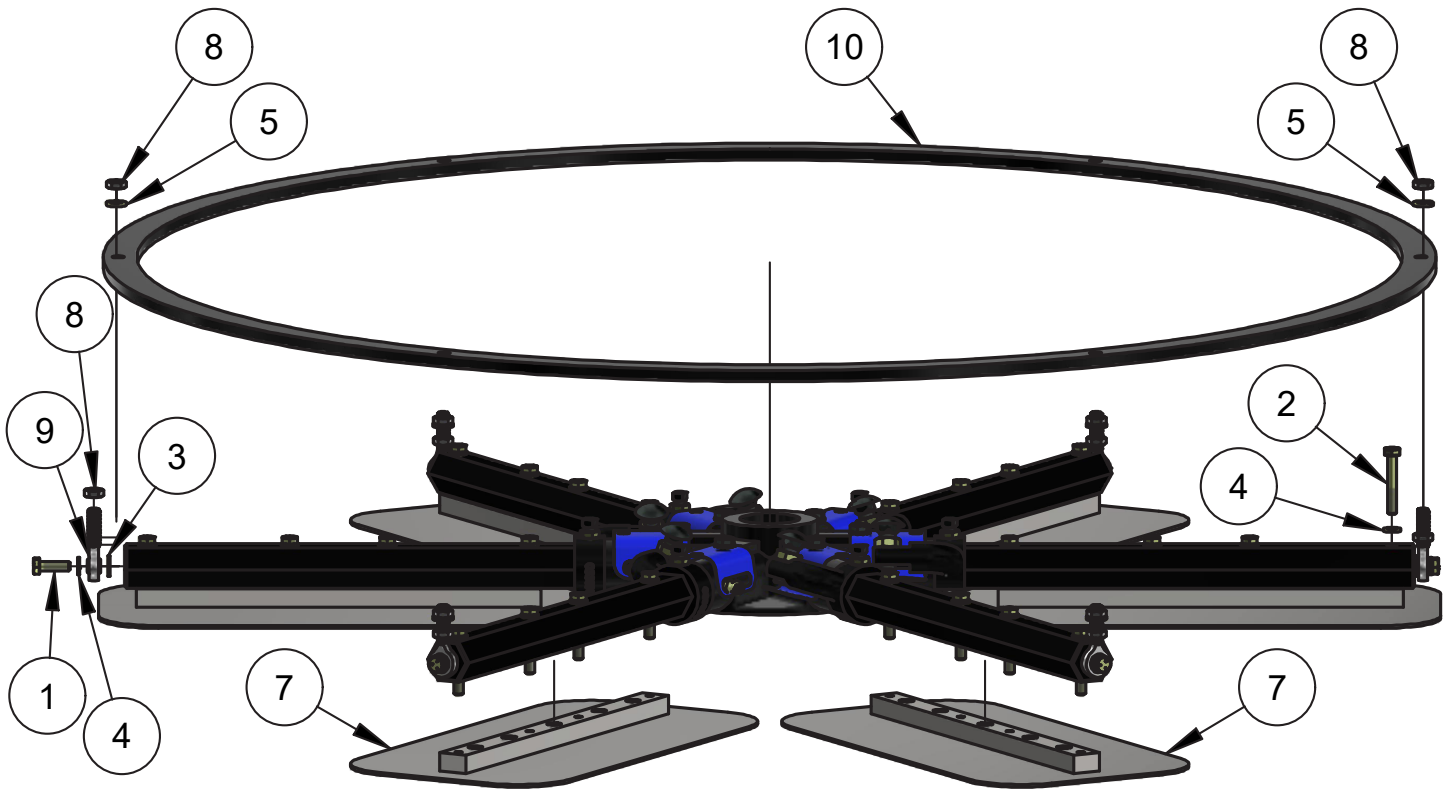
Lower Rotor Assembly - Left Hand



ITEM	PART #	DESCRIPTION	QTY
-	073512	Assembly, Lower Rotor, Left Hand	-
1	010020	Fastener, Bolt, HHCS, 5/16"-18 x 1", Grade 8	6
2	010024	Fastener, Bolt, HHCS, 5/16"-18 x 2", Grade 8	24
3	010082	Fastener, Washer, Flat, 5/16", Grade 8	6
4	010090	Fastener, Washer, Lock, 5/16", Grade 8	30
5	010091	Fastener, Washer, Lock, 3/8", Grade 8	6
6	060538	Assembly, Spider, Left Hand, 6-Blade	1
7	060542	Blade, Flat Finish, 16"	6
8	069566	Fastener, Nut, Hex, 3/8"-24, Thin	12
9	069567	Ball Joint, Rod End, Male, 3/8"-24 Shank, 5/16" I.D.	6
10	073343	Ring, Stabilizer, 6-Blade, 46" Rotor	1

Lower Rotor Assembly - Right Hand

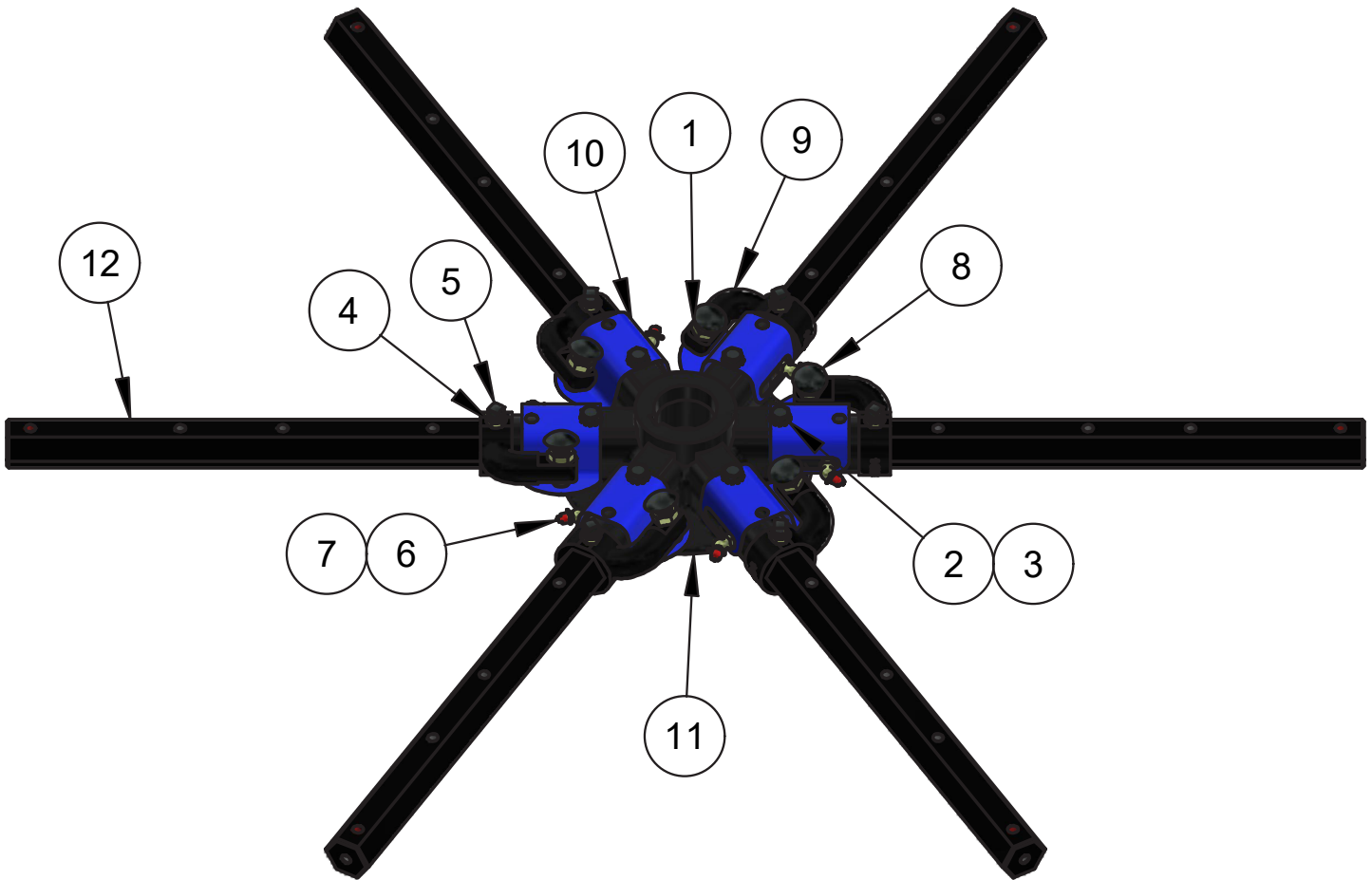
SECTION 1 PARTS



ITEM	PART #	DESCRIPTION	QTY
-	073513	Assembly, Lower Rotor, Right Hand	-
1	010020	Fastener, Bolt, HHCS, 5/16"-18 x 1", Grade 8	6
2	010024	Fastener, Bolt, HHCS, 5/16"-18 x 2", Grade 8	24
3	010082	Fastener, Washer, Flat, 5/16", Grade 8	6
4	010090	Fastener, Washer, Lock, 5/16", Grade 8	30
5	010091	Fastener, Washer, Lock, 3/8", Grade 8	6
6	060541	Assembly, Spider, Right Hand, 6-Blade	1
7	060542	Blade, Flat Finish, 16"	6
8	069566	Fastener, Nut, Hex, 3/8"-24, Thin	12
9	069567	Ball Joint, Rod End, Male, 3/8"-24 Shank, 5/16" I.D.	6
10	073343	Ring, Stabilizer, 6-Blade, 46" Rotor	1

SECTION 1 PARTS

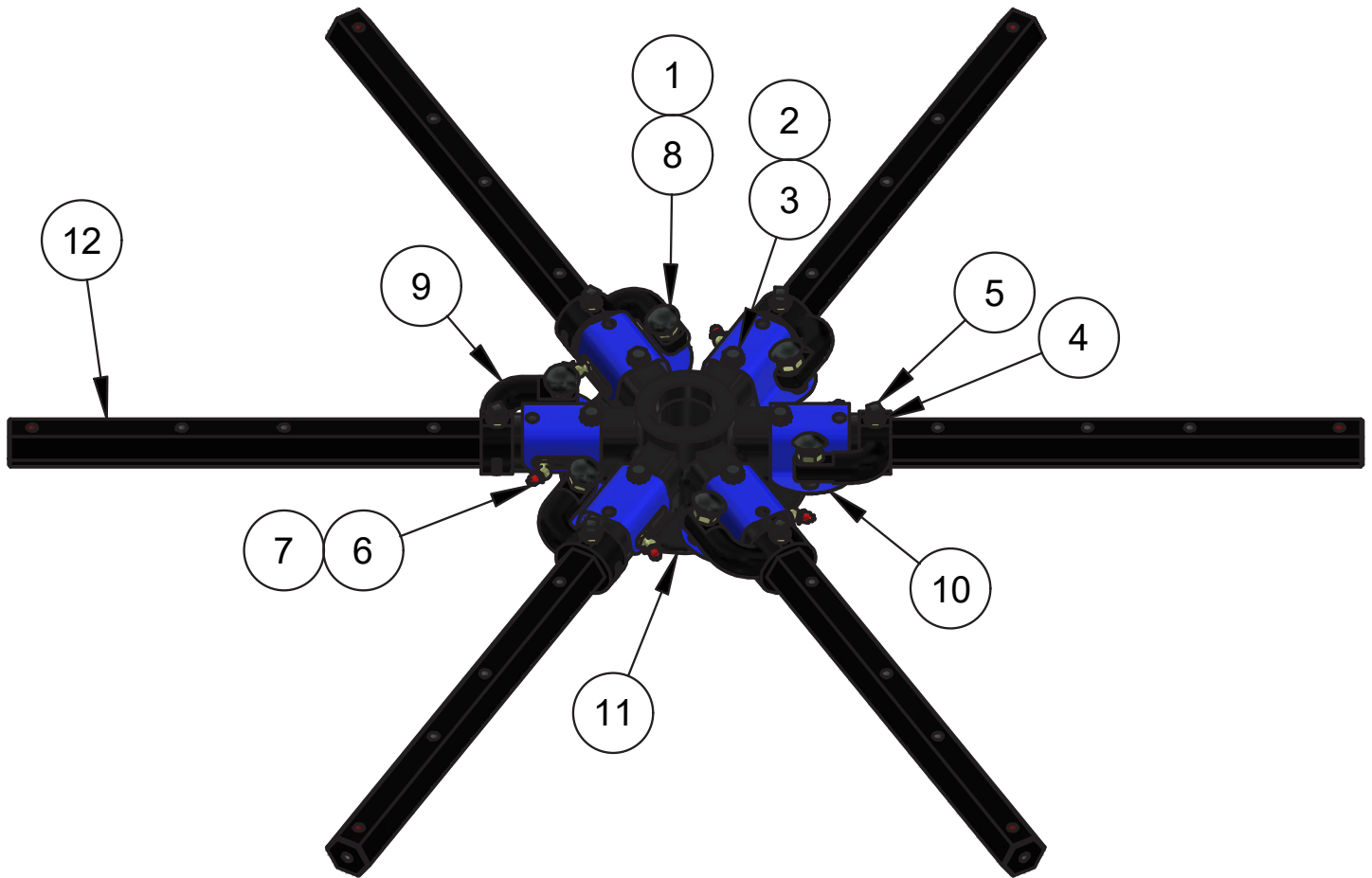
Spider Assembly - Left Hand



ITEM	PART #	DESCRIPTION	QTY
-	060538	Assembly, Spider, Left Hand, HDX605	-
1	010050	Fastener, Nut, Hex, 1/2"-13	6
2	015682	Fastener, External Tooth, 3/8"	6
3	015683	Fastener, Bolt, Hex Head, 3/8"-16 x 7/8"	6
4	015684	Fastener, Nut, Hex, 3/8"-16	6
5	015686	Fastener, Bolt, SQHSS, 3/8"-16 x 1"	6
6	015692	Cap, Grease, 1/4", Plastic, Red	6
7	024755	Fitting, Grease, 1/8"-27 NPT, 45°	6
8	028216	Fastener, Bolt, 1/2"-13 x 1-1/2", Grade 8	6
9	033034	Lever, Lift, Universal	6
10	040792	Clip, Spider Spring, 46-48	6
11	064198	Boss, Spider, 6-Blade, Universal	1
12	069917	Arm, Trowel, 4ft, for 6-Arm Spider	6

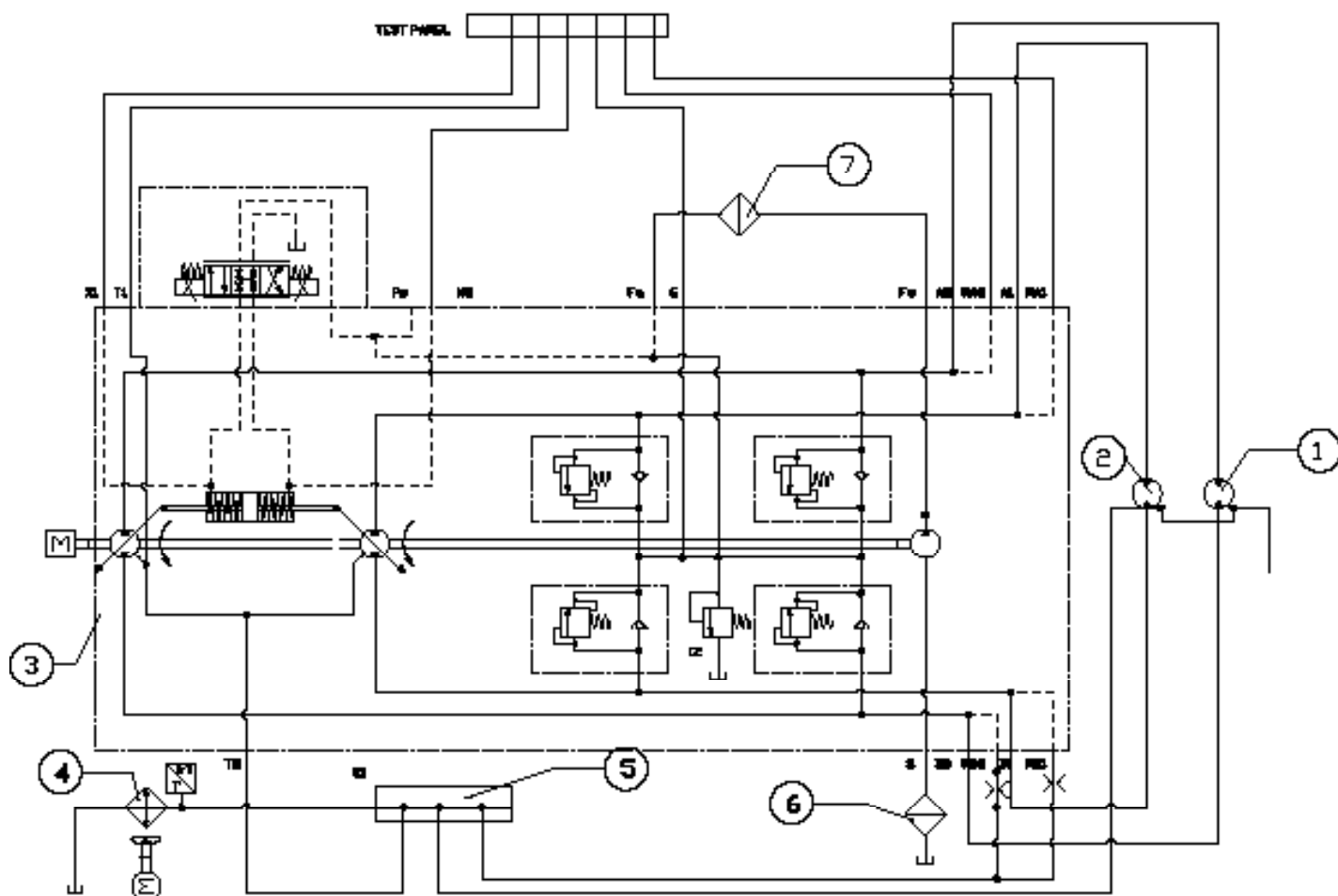
Spider Assembly - Right Hand

SECTION 1 PARTS



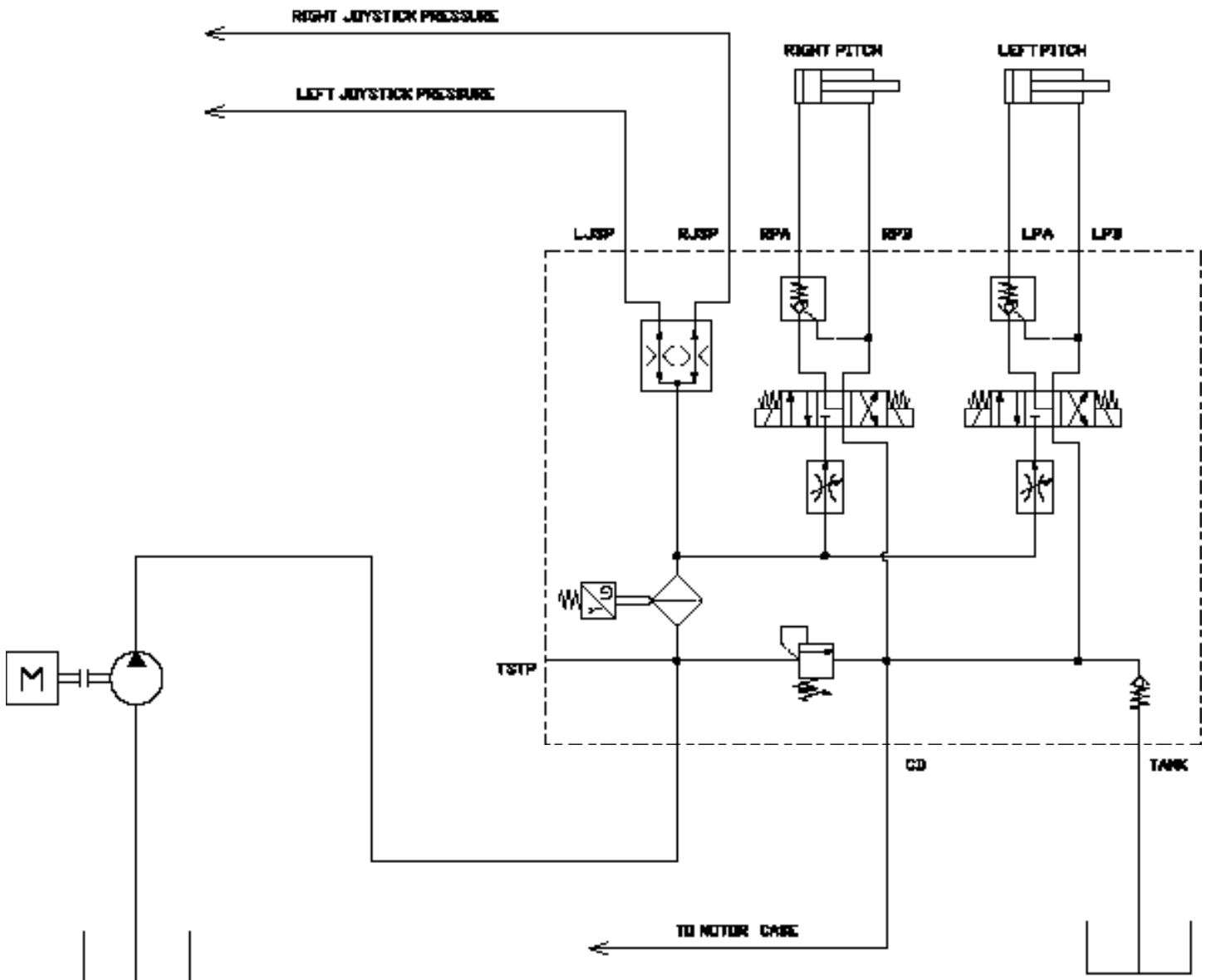
ITEM	PART #	DESCRIPTION	QTY
-	060541	Assembly, Spider, Right Hand, HDX605	-
1	010050	Fastener, Nut, Hex, 1/2"-13	6
2	015682	Fastener, External Tooth, 3/8"	6
3	015683	Fastener, Bolt, Hex Head, 3/8"-16 x 7/8"	6
4	015684	Fastener, Nut, Hex, 3/8"-16	6
5	015686	Fastener, Bolt, SQHSS, 3/8"-16 x 1"	6
6	015692	Cap, Grease, 1/4", Plastic, Red	6
7	024755	Fitting, Grease, 1/8"-27 NPT, 45°	6
8	028216	Fastener, Bolt, 1/2"-13 x 1-1/2", Grade 8	6
9	033034	Lever, Lift, Universal	6
10	040792	Clip, Spider Spring, 46-48	6
11	064198	Boss, Spider, 6-Blade, Universal	1
12	069917	Arm, Trowel, 4ft, for 6-Arm Spider	6

Primary Hydraulic Circuit



Reference	Part Number	Quantity
<u>1</u>	<u>Rotor Motor</u>	<u>1</u>
<u>2</u>	<u>Rotor Motor</u>	<u>1</u>
<u>3</u>	<u>Primary Pump</u>	<u>1</u>
<u>4</u>	<u>HYD Cooler</u>	<u>1</u>
<u>5</u>	<u>Return Header</u>	<u>1</u>
<u>6</u>	<u>Y- Strainer</u>	<u>1</u>
<u>7</u>	<u>Charge Filter</u>	<u>1</u>

Auxiliary Hydraulic Circuit



SECTION 1 PARTS

Hydraulic System

Replacement Parts

ITEM	PART #	DESCRIPTION	QTY
1	070522	Filter, Steering Element	1
2	043418	Filter, Charge	1
3	070097	Flow Divider / Combiner, Spool	1
4	070098	Check Valve - Ball	1
5	070099	Flow Control Valve, Pressure Compensated	1
6	071150	Relief Valve, Direct	1
7	071151	Solenoid Valve, 3/4"	1
8	071152	Check Valve	1
9	071153	Coil, 12VDC, Deutsch	1
10	071154	Clogging Indicator, 5-BAR	1

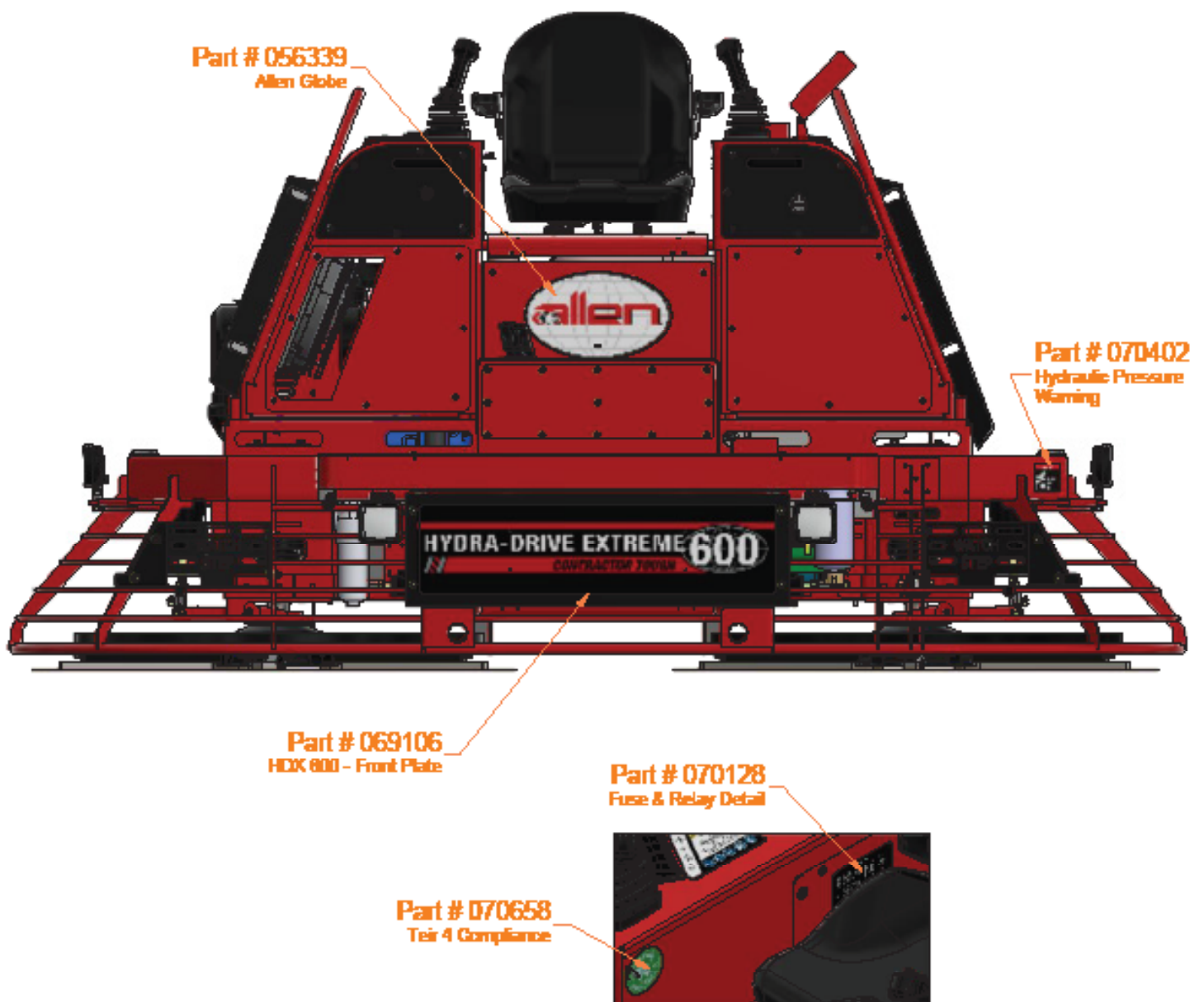
Hydraulic Kits

ITEM	PART #	DESCRIPTION	QTY
1	070316	Kit, Hydraulic, Fitting	1
2	070317	Kit, Hydraulic, Hose	1
3	070308	Kit, Hydraulic, Component	1

SECTION 2 DECALS

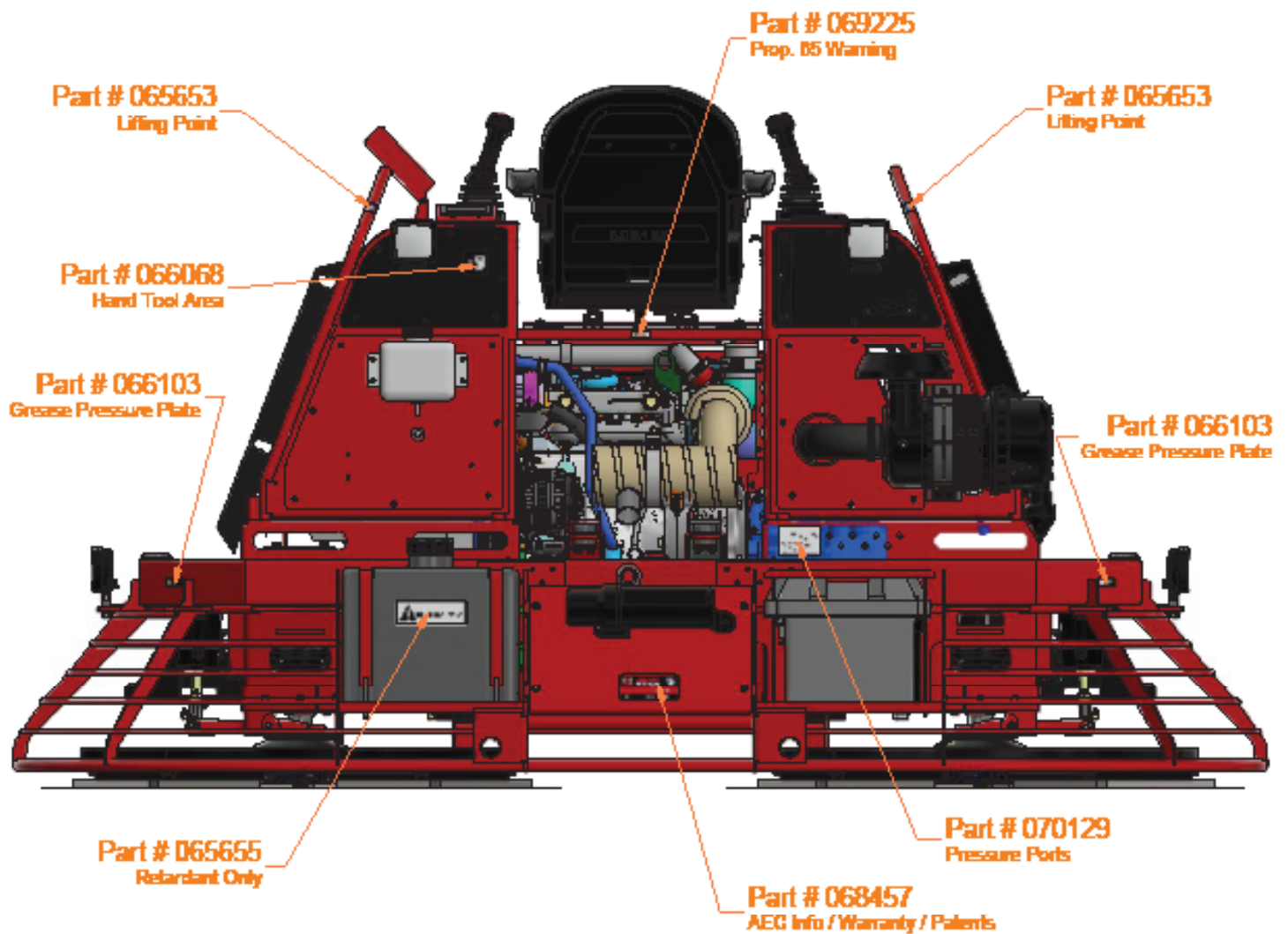
SECTION 2 DECALS

Decals - Front (Kit #: 069101)



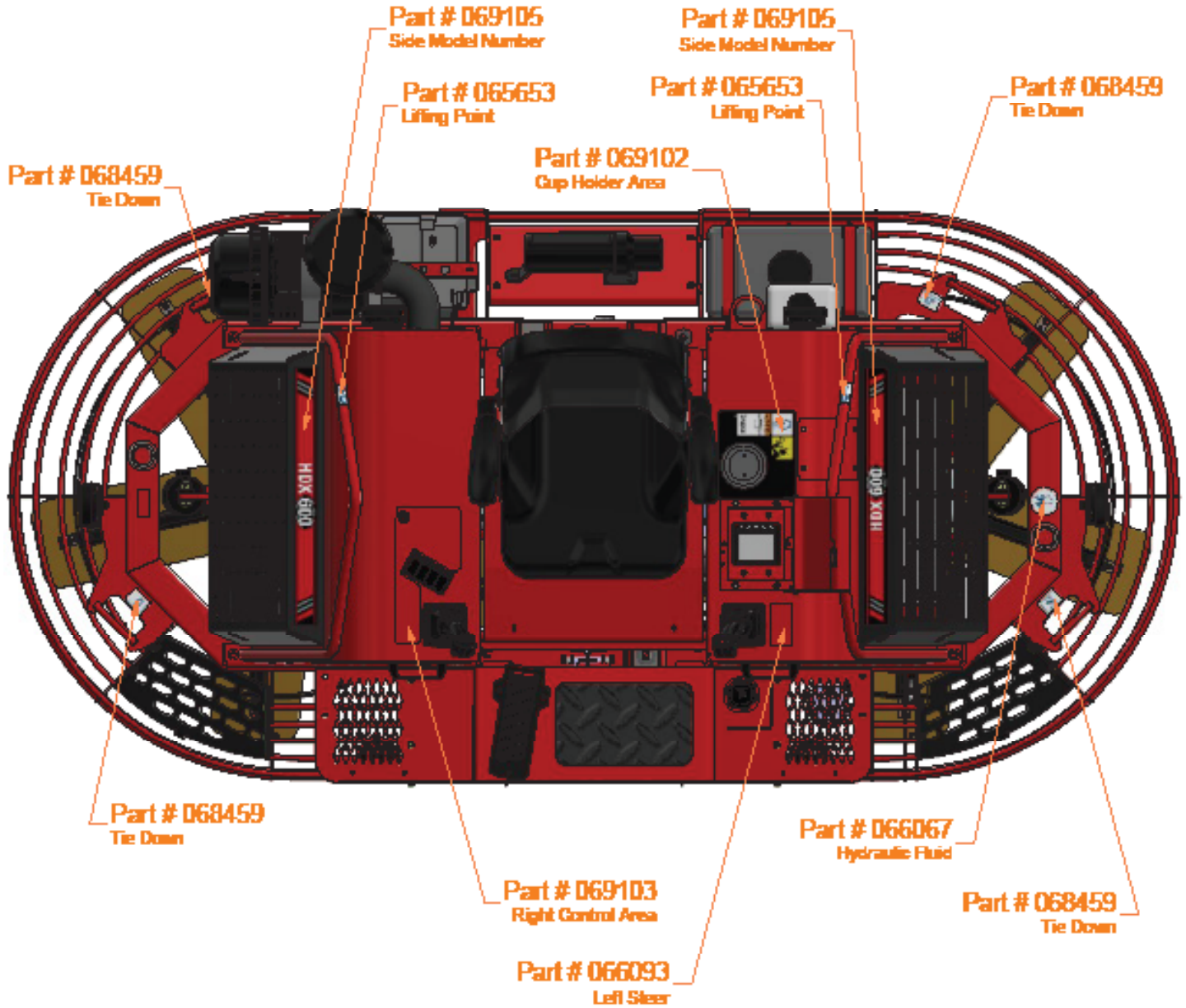
Decals - Rear (Kit #: 069101)

SECTION 2 DECALS



SECTION 2 DECALS

Decals - Top (Kit #: 069101)



NOTE: PART NUMBER 005085 (SERIAL TAG) IS NOT SHOWN. PLACE ON BOTTOM OF SEAT SO THAT DECAL IS VISIBLE WHEN SEAT IS LIFTED UP.

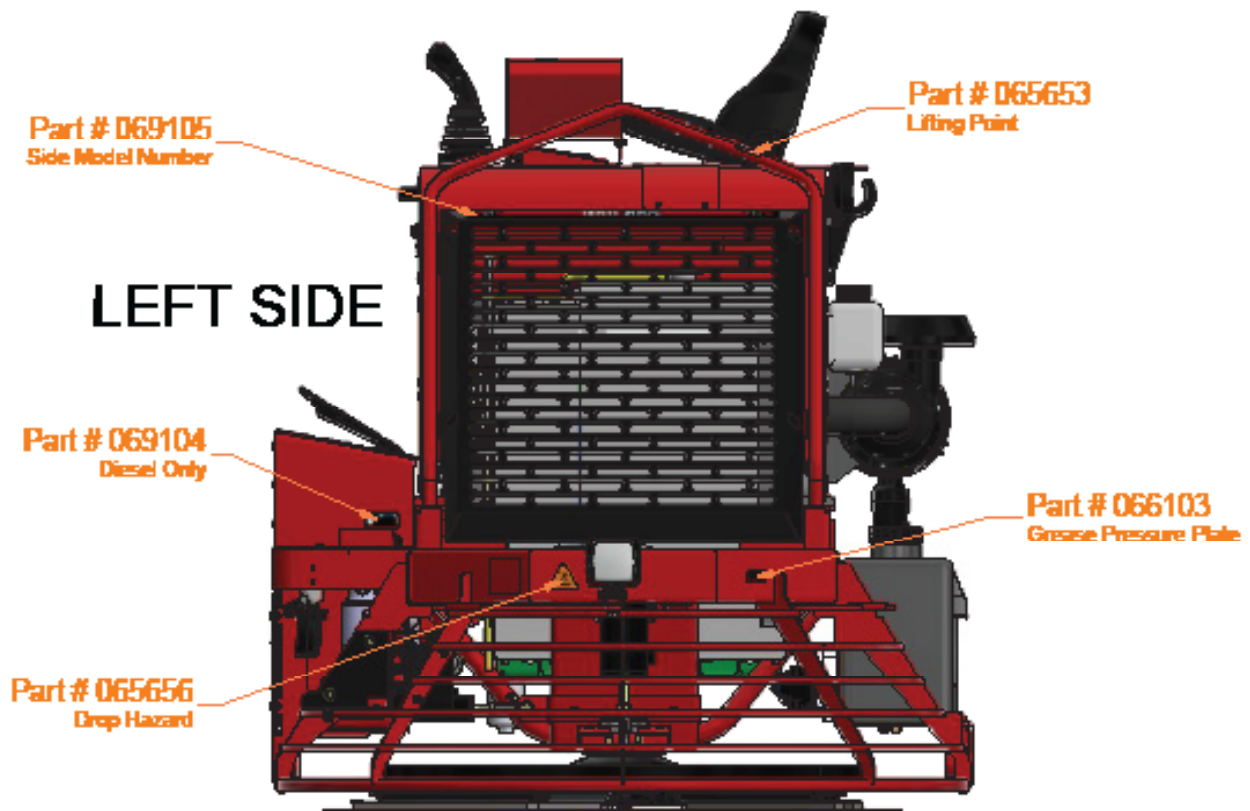


Part # 065917
Pinch Hazard

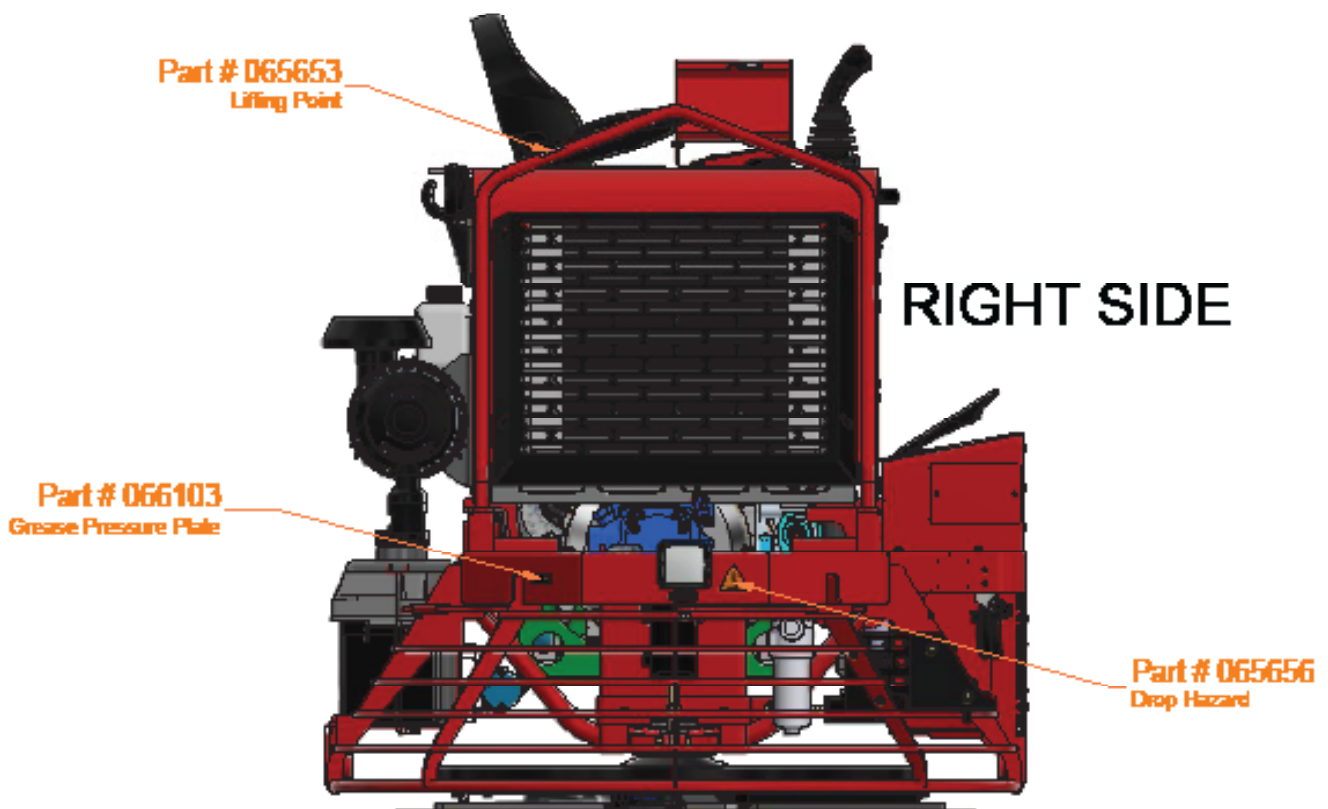
Decals - Right / Left (Kit #: 069101)

SECTION 2 DECALS

LEFT SIDE



RIGHT SIDE



Revision Detail

MANUAL REVISION DETAIL			
REVISION #	REVISION DATE	REVISION REFERENCE #	REVISION BY
-	11/20	Initial Release	MW
A	02/21	MN 21-003	MW
B	01/22	Updated Covers	MK

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Allen Products are covered under one or more of the following patent numbers:
10,100,537; 9,068,301; 9,068,300; 8,360,680; 7,690,864; 7,114,876B1; 6,857,815B2; 6,582,153
With other Patents Pending.

Printed in U.S.A.



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