

RIDING TROWEL

HDX615



PARTS & DECALS MANUAL

Manual Part #: 079360P | Revision: D
Language: English | Original Instructions





For information regarding the following, please see the “HDX615 - Safety & Operator Manual”

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

HDX615 RIDING TROWEL

PARTS & DECAL MANUAL

This manual covers the products listed below:

<u>Part No.</u>	<u>Description</u>
075660	HDX615 Riding Trowel, 6-Boss, Dual Fuel

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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:

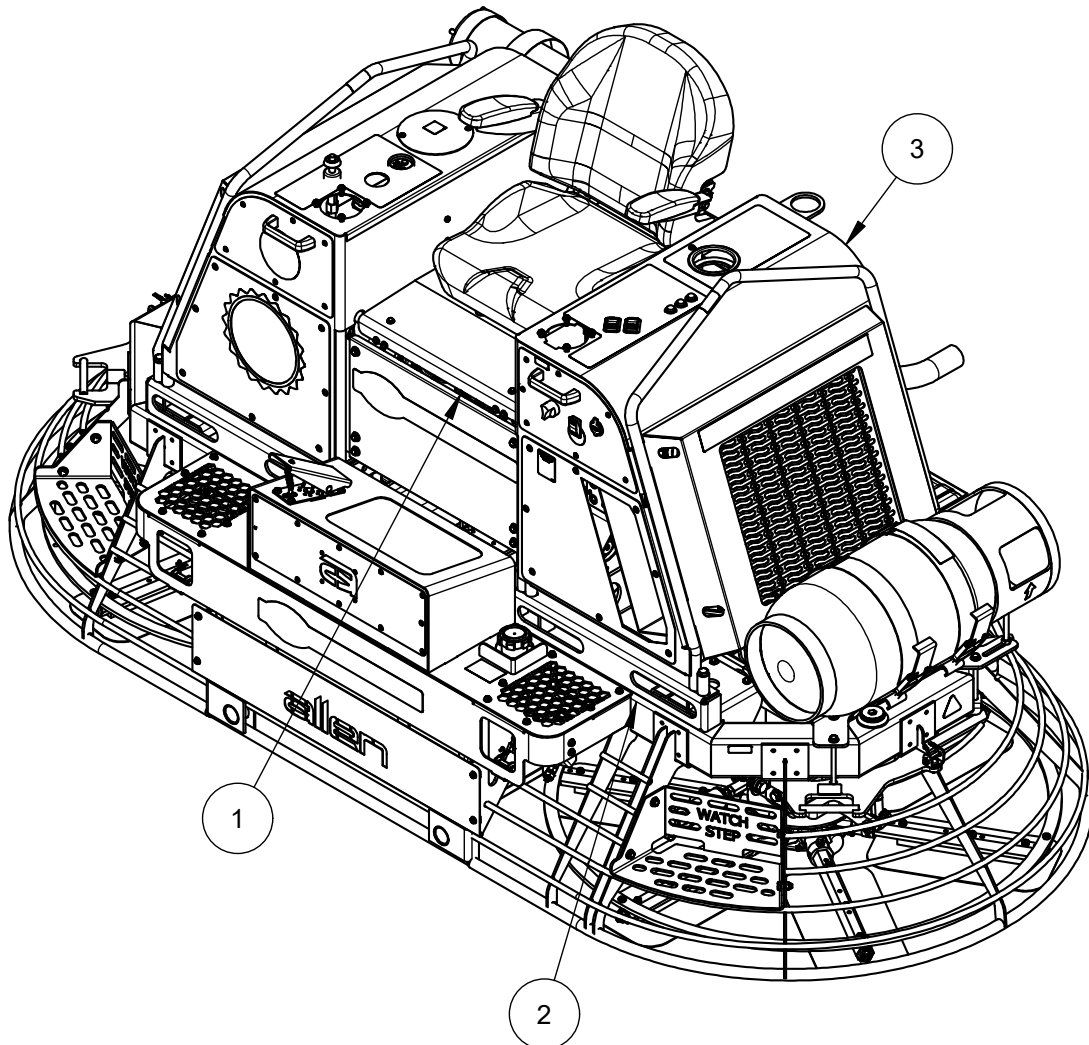
1. All orders for service parts - include the serial number for the machine. Shipment will be delayed if this information is not available.
2. Include correct description and part number
3. Specify exact shipping instructions, including the preferred routing and complete destination address.
4. **DO 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

General Assembly



General Assembly Parts List

SECTION 1 PARTS

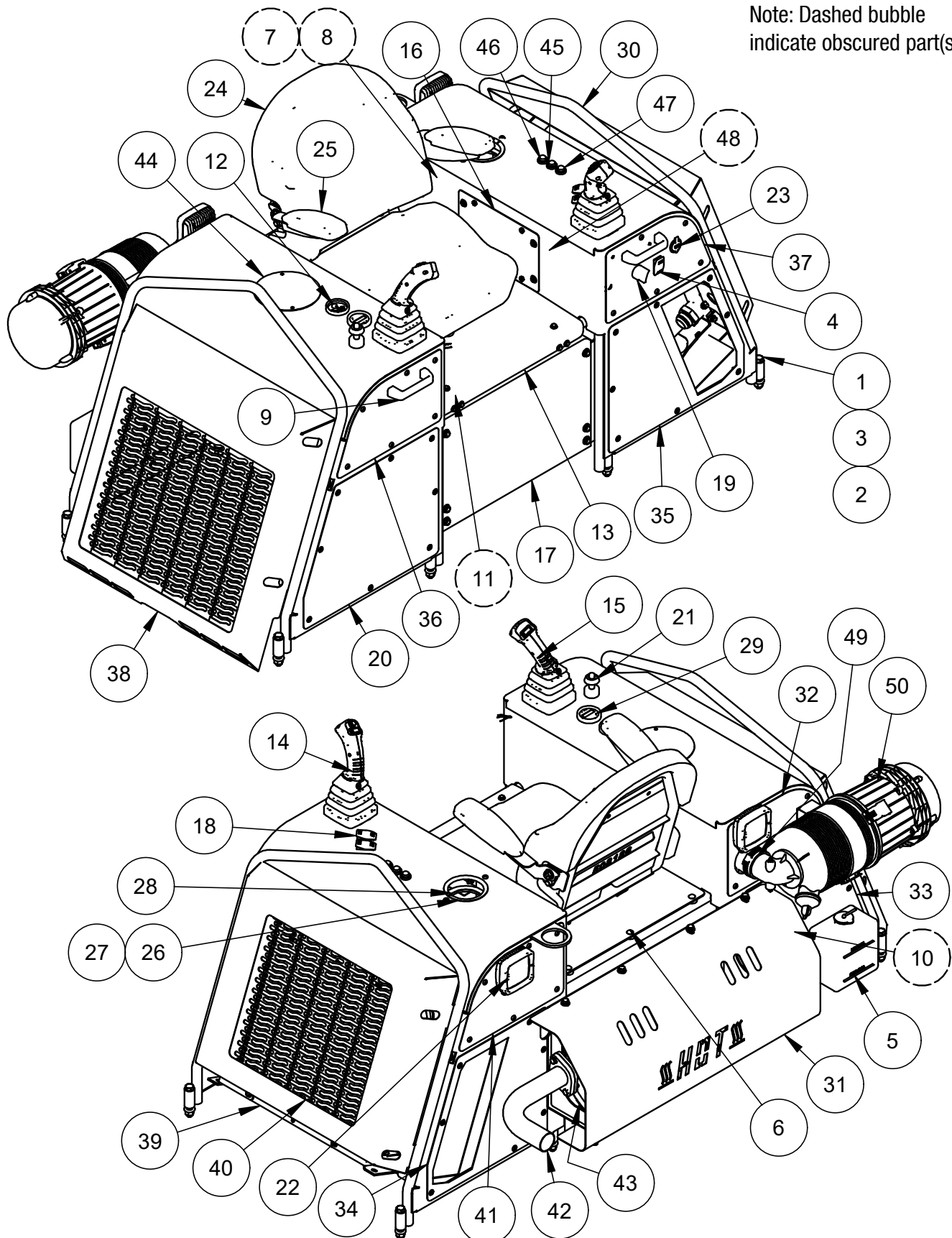
ITEM	PART #	DESCRIPTION	QTY
1	075630	Assembly, Engine HDX615	1
2	075661	Assembly, Main Frame	1
3	075690	Assembly, Seat Frame	1
-	069570	Harness, Light	
-	076114	Kit, Decal HDX615	1
-	076213	Harness, Wiring HDX615	1
-	077722	Kit, Hydraulic Component	1
-	077723	Kit, Hydraulic Hoses	1
-	077724	Kit, Hydraulic Fitting	1

NOTICE

Electrical schematic may be available to view on the AEC website or contact AEC Customer Service

Seat Frame Assembly (075690)

Note: Dashed bubble indicate obscured part(s)



Seat Frame Assembly (075690) Parts List

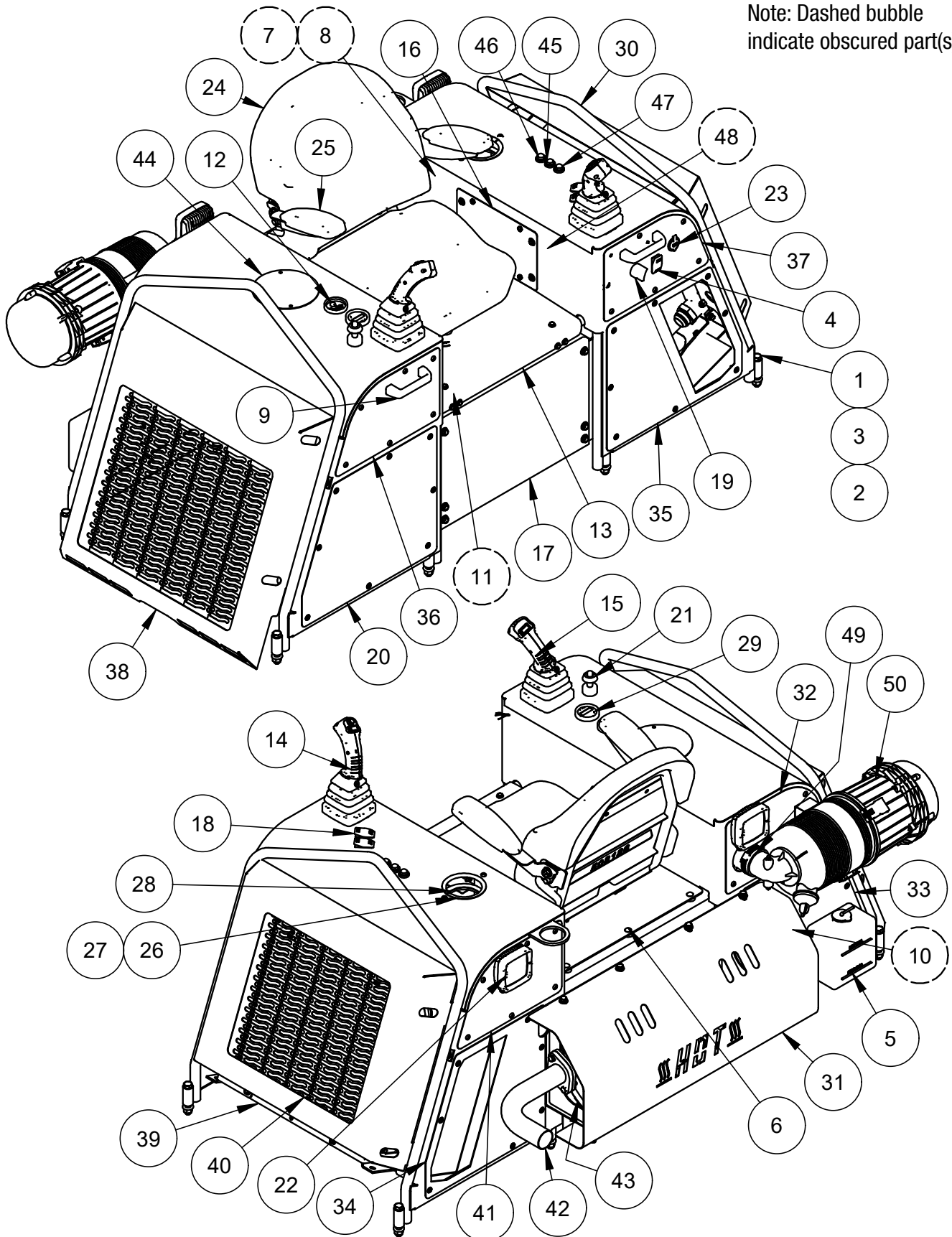
SECTION 1 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	010076	Fastener, HHCS 1/2"-13 X 3-1/4"	8
2	011238	Fastener, Hex Nut NYLOK 1/2"-13	8
3	011490	Fastener, Flat Washer 1/2"	8
4	032125	Rocker switch, Lights	1
5	047314	Reservoir, coolant overflow	1
6	047665	Rubber bumper	3
7	047886	Breather filler cap F/ Vent tank	1
8	048595	Vent tank	1
9	048678	Handle, nylon	2
10	048681	Rubber grommet	1
11	049550	Connector, Seat lid pivot	2
12	054903	Fuel gauge	1
13	056224	Seat lid	1
14	064510	LH Joystick	1
15	064511	RH Joystick	1
16	065134	Fuse box cover plate	1
17	065489	Cover, front center	1
18	067961	Rocker Switch (Throttle & Fuel)	2
19	068166	Key Switch	1
20	068367	Cover, front lower RH	1
21	069221	Vernier control cable, F/ cruise control	1
22	069835	Light, LED 1200 Lumens	2
23	069850	USB receptacle	1
24	069874	Seat	1
25	069875	Arm rest (set)	1
26	071123	Top rubber trim, 12.5" F/ cup holder	1
27	071124	Middle rubber trim, 10.5" F/ cup holder	1
28	074251	Cup holder	1
29	074704	Display, PV25	1
30	075684	Weldment, seat frame	1
31	075692	Heat shield F/ exhaust	1
32	075693	Cover, rear top RH	1
33	075694	Cover, rear lower RH	1
34	075695	Cover, rear lower LH	1
35	075696	Cover, front lower LH	1
36	075697	Cover, front top RH	1
37	075698	Cover, front top LH	1
38	075699	RH guard, Engine	1
39	075702	Sub-Assembly, Hyd. Oil cooler & air intake box	1

SECTION 1 PARTS

Seat Frame Assembly (075690) Continued

Note: Dashed bubble indicate obscured part(s)



Seat Frame Assembly (075690) Parts List Continued

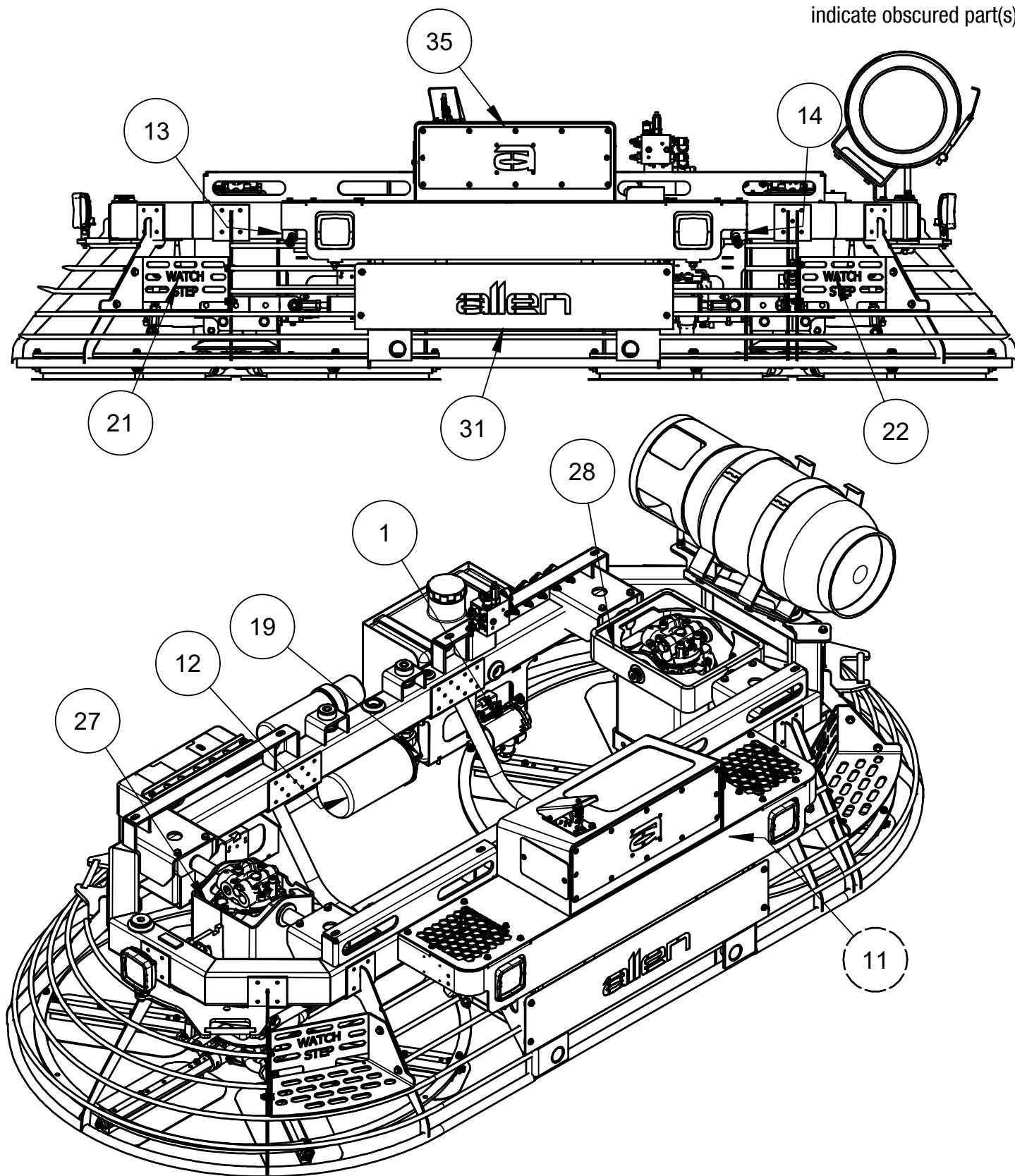
SECTION 1 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
40	075741	LH guard, Cooler side	1
41	075744	Cover, rear top LH	1
42	075745	Tail pipe F/ exhaust	1
43	075767	Exhaust Muffler	1
44	075072	Cover plate F/ radiator fill	1
45	076950	Light, LED green	1
46	076951	Light, LED amber	1
47	076952	Light, LED red	1
48	077525	Buzzer	1
49	078197	Hose connector, straight	1
50	078206	Assembly, air cleaner	1

SECTION 1 PARTS

Assembly, Main Frame (075661)

Note: Dashed bubble indicate obscured part(s)

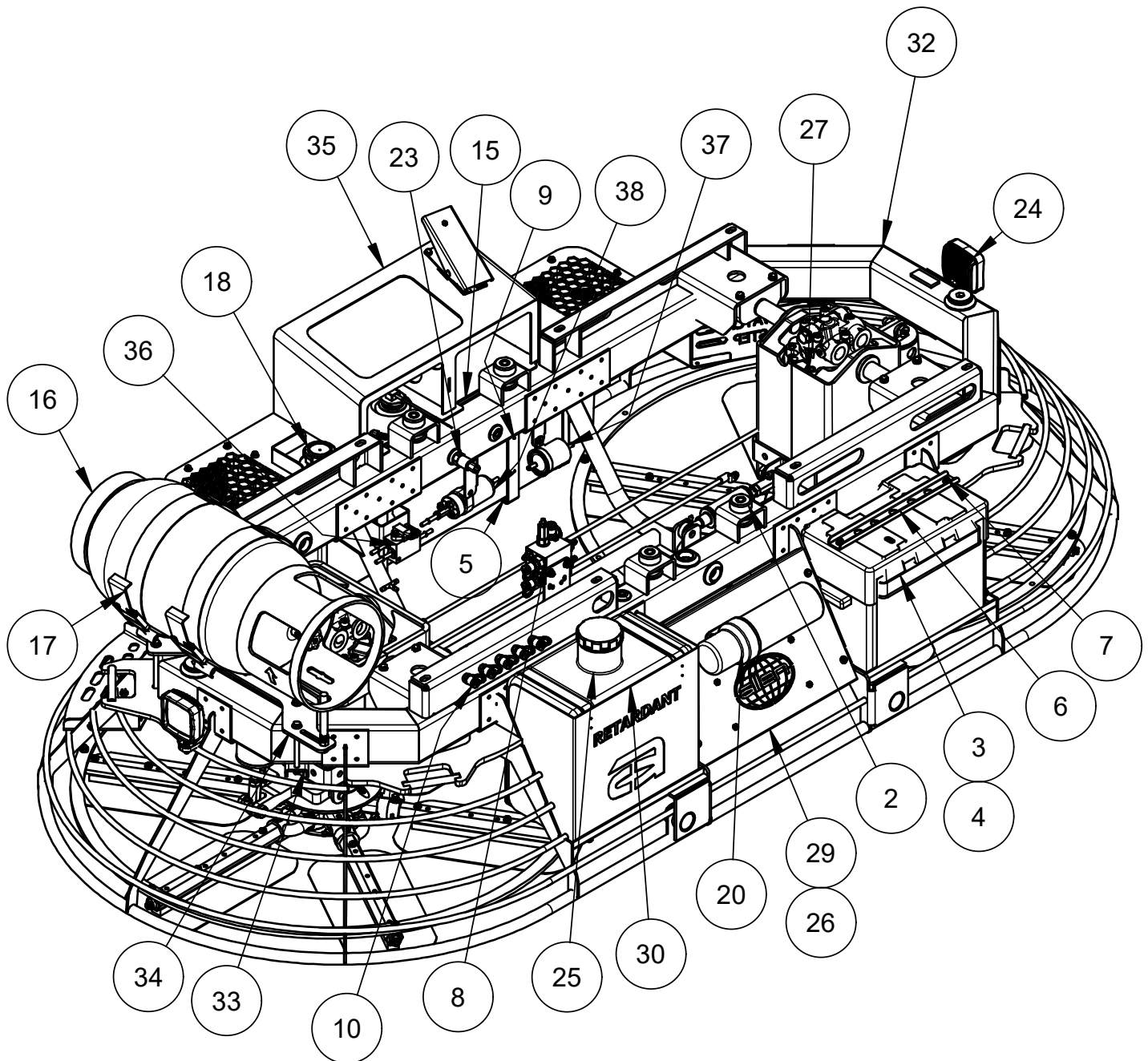


Assembly, Main Frame Parts List (075661)**SECTION 1
PARTS**

Item	Part No.	Description	Qty
1	033735	Pump for spray system	1
2	043364	Isolator, motor mount	4
3	046696	Battery box	1
4	047604	Battery 700CCA 12V	1
5	048562	Cushion for bottom of fuel tank	2
6	048563	Channel, battery hold down	1
7	048589	Rod, 1/4"-20 for battery hold down	2
8	048657	Manifold, High pressure	1
9	048676	Plug rubber for fuel tank strap	8
10	048730	Fitting, test point	5
11	049088	Valve, PO Check	1
12	049801	Filter, spin on	1
13	049981	RH spray bracket	1
14	049982	LH spray bracket	1
15	064501	Cushion, top of fuel tank	1
16	064878	Propane tank	1
17	064879	Mount bracket F/ Propane tank	2
18	065605	Assembly, Fuel tank	1
19	066149	Filter suction head	1
20	066255	Manual tube	1
21	068370	Step, RH	1
22	068375	Step, LH	1
23	068622	Temperature switch F/ cold start up	1
24	069835	Light LED 1200 Lumens	4
25	071536	Tank, 7 GAL Retardant	1
26	072856	Plate, backer for rear cover	1
27	074146	Assembly, RH rotor	1
28	074147	Assembly, LH rotor	1
29	075259	Cover plate, rear center	1
30	075422	Tank Guard F/ 7GAL Retardant	1
31	075659	Cover plate, bottom front center	1
32	075662	Main frame	1
33	075683	Mount bracket bottom F/ Propane tank	1
34	075737	Mount plate F/ Propane tank	1
35	075753	Assembly, front deck	1
36	075758	Fuel manifold	1
37	075759	Fuel filter	1
38	075761	Fuel Pump	1

SECTION 1 PARTS

Assembly, Main Frame Continued (075661)

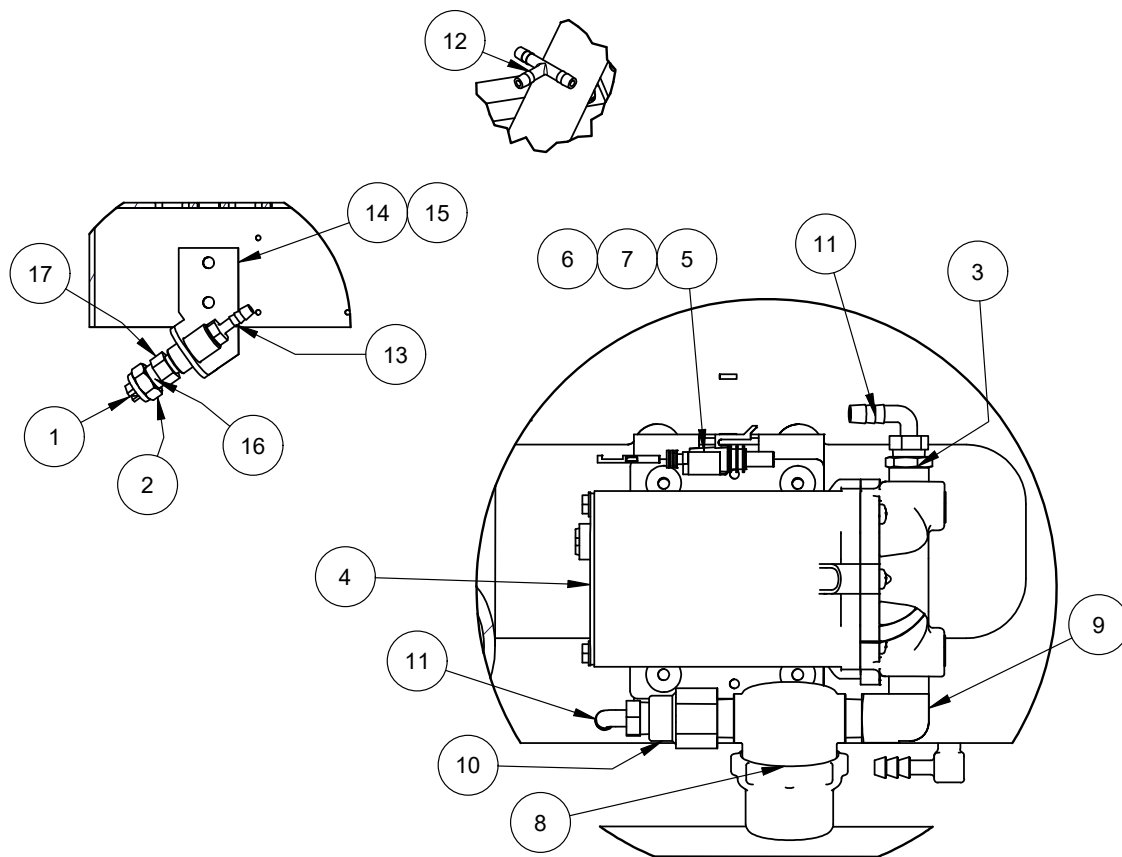


Assembly, Main Frame Parts List (075661)**SECTION 1
PARTS**

Item	Part No.	Description	Qty
1	033735	Pump for spray system	1
2	043364	Isolator, motor mount	4
3	046696	Battery box	1
4	047604	Battery 700CCA 12V	1
5	048562	Cushion for bottom of fuel tank	2
6	048563	Channel, battery hold down	1
7	048589	Rod, 1/4"-20 for battery hold down	2
8	048657	Manifold, High pressure	1
9	048676	Plug rubber for fuel tank strap	8
10	048730	Fitting, test point	5
11	049088	Valve, PO Check	1
12	049801	Filter, spin on	1
13	049981	RH spray bracket	1
14	049982	LH spray bracket	1
15	064501	Cushion, top of fuel tank	1
16	064878	Propane tank	1
17	064879	Mount bracket F/ Propane tank	2
18	065605	Assembly, Fuel tank	1
19	066149	Filter suction head	1
20	066255	Manual tube	1
21	068370	Step, RH	1
22	068375	Step, LH	1
23	068622	Temperature switch F/ cold start up	1
24	069835	Light LED 1200 Lumens	4
25	071536	Tank, 7 GAL Retardant	1
26	072856	Plate, backer for rear cover	1
27	074146	Assembly, RH rotor	1
28	074147	Assembly, LH rotor	1
29	075259	Cover plate, rear center	1
30	075422	Tank Guard F/ 7GAL Retardant	1
31	075659	Cover plate, bottom front center	1
32	075662	Main frame	1
33	075683	Mount bracket bottom F/ Propane tank	1
34	075737	Mount plate F/ Propane tank	1
35	075753	Assembly, front deck	1
36	075758	Fuel manifold	1
37	075759	Fuel filter	1
38	075761	Fuel Pump	1

Spray System Illustration

Note: Images are for reference only, parts may be located/set differently on the machine



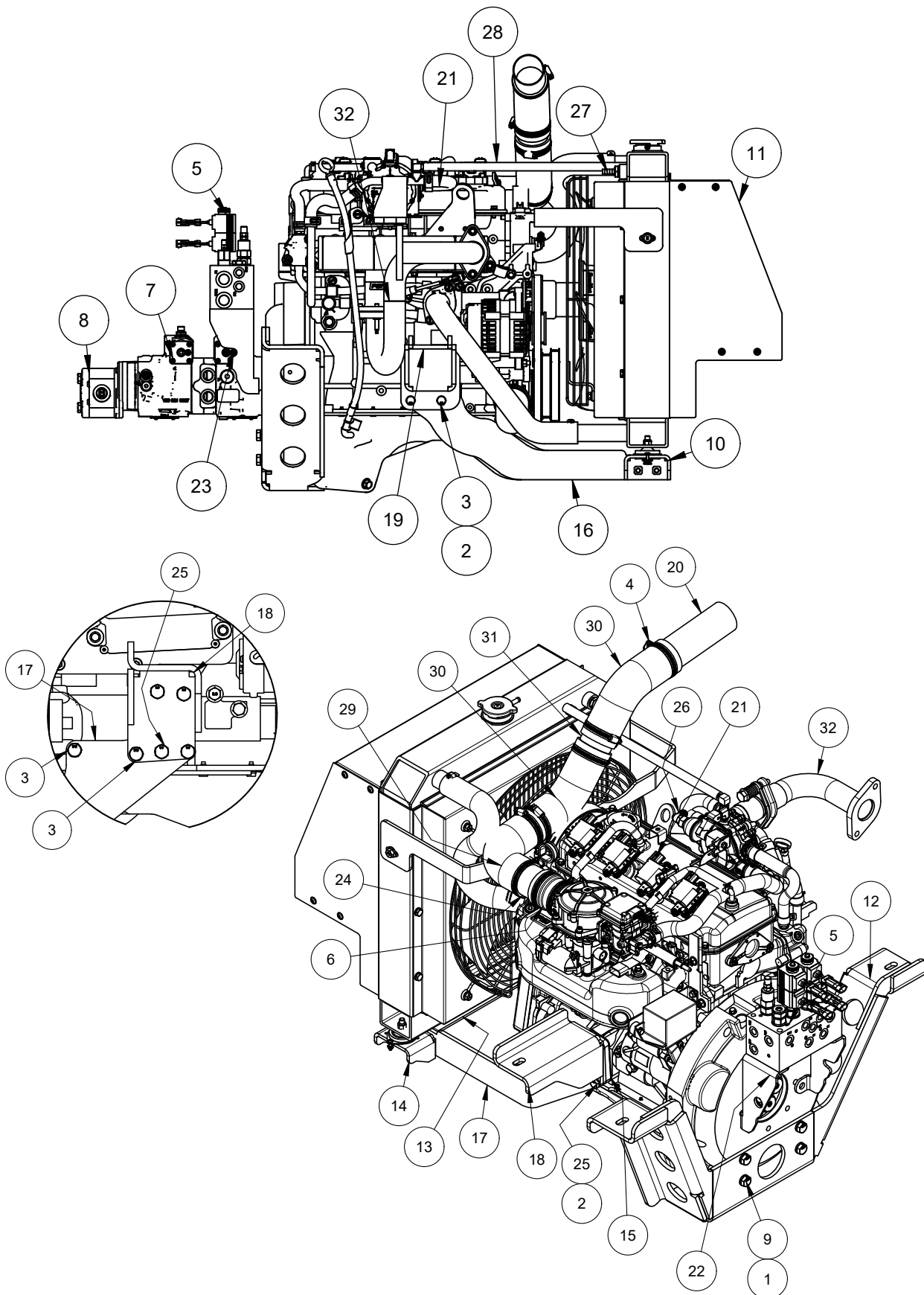
Spray System Parts List

SECTION 1 PARTS

ITEM	PART #	DESCRIPTION	QTY
1	012702	Spray Tip, 8001 Fine	2
2	012705	Brass Nozzle Nut	2
3	013557	Reducing Nipple, 3/8" x 1/4"	1
4	033735	Pump	1
5	038641	Housing, Female Term 2 Contact	1
6	038644	Terminal, female 16-14 AWG	2
7	038648	Cavity Seal, Grey for 038641	2
8	040209	Filter, Spray System	1
9	040387	Street Elbow, Brass 3/8" 90°	1
10	040388	Fitting, 3/8" x 1/4" Brass FM to FM Reducer	1
11	047933	Elbow, 1/4" Pushlok x 1/4" NPT Plastic	2
12	048652	Tee, Plastic 1/4"x 1/4" x 1/4"	1
13	048653	Hose Barb, Plastic 1/4" x 1/4" NPT	2
14	049981	Weldment, RH Spray Bracket	
15	049982	Weldment, LH Spray Bracket	1
16	065244	Screen, 50 Mesh Blue with Check Valve	2
17	071531	Nozzle Body, Male Straight Tee Jet Brass	2
-	048246	HOSE, 3/8" WATER LINE	-

SECTION 1 PARTS

Engine Assembly (075630)



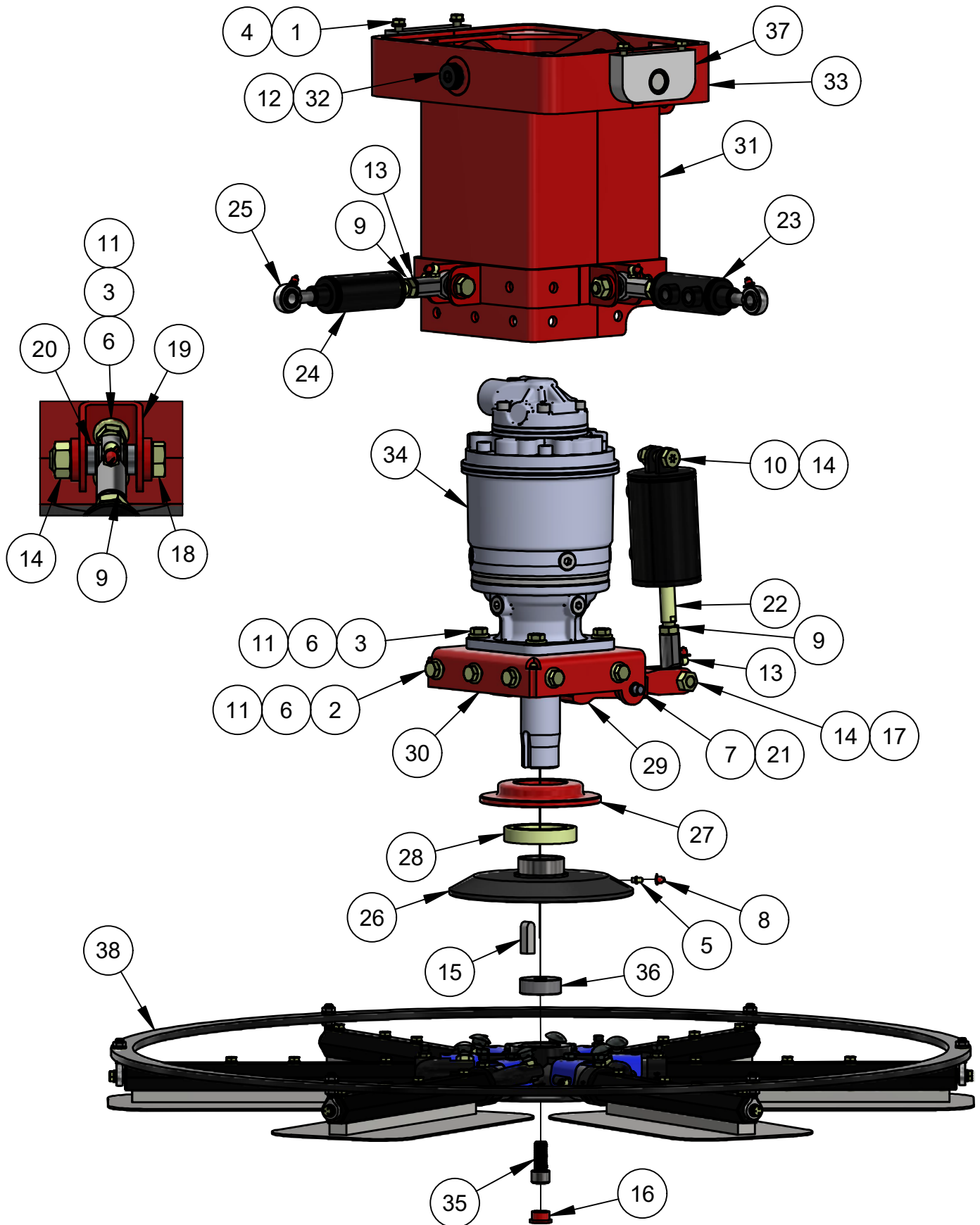
Engine Assembly (075630) Parts List

SECTION 1 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	010093	Fastener, Lock washer 1/2"	4
2	021072	Fastener, Lock washer 10mm	10
3	037778	Fastener, HHCS M10 X 1.25 X 30mm	7
4	040329	Hose Clamp, 3"	8
5	048656	Steering/Pitch manifold	1
6	060979	Rubber reducer 2-1/2" to 2-1/4"	1
7	068610	Tandem pump	1
8	068611	Auxiliary pump	1
9	070414	Fastener, HHCS M12 X 1.75 X 30mm	4
10	075623	LH Radiator support	1
11	075626	Assembly, Radiator shroud	1
12	075631	Rear engine mount	1
13	075635	Bracket, Center radiator support	1
14	075636	RH Radiator support	1
15	075653	Spacer 1/16" LH Radiator mount	1
16	075657	Plate, RH Radiator Mount	1
17	075858	Bracket, LH Radiator mount	1
18	075707	LH Engine mount, front	1
19	075710	RH Engine mount, front	1
20	076048	Tube, intake to breather	1
21	076090	Engine, PSI Duel Fuel 2.4L	1
22	076093	Bracket, Rear Mount for manifold	1
23	076094	Bracket, Front Mount for manifold	1
24	076273	Tube Splice, intake 4" long	1
25	077794	Fastener, HHCS M10 x 1.25 X 45mm	4
26	077814	Fitting, 90° elbow	1
27	077829	Fitting, Hose barb 3/8" X 1/4" NPT	1
28	077830	Hose, 3/8" ID X 16-1/2" long	1
29	078204	Hose, 90° Elbow 2-1/2" ID	1
30	078205	Hose, 45° Elbow 2-1/2" ID	1
31	078224	Tube Splice for intake	1
32	078470	Exhaust muffler pipe	1

SECTION 1 PARTS

Rotor Assembly - Left Hand (074147)



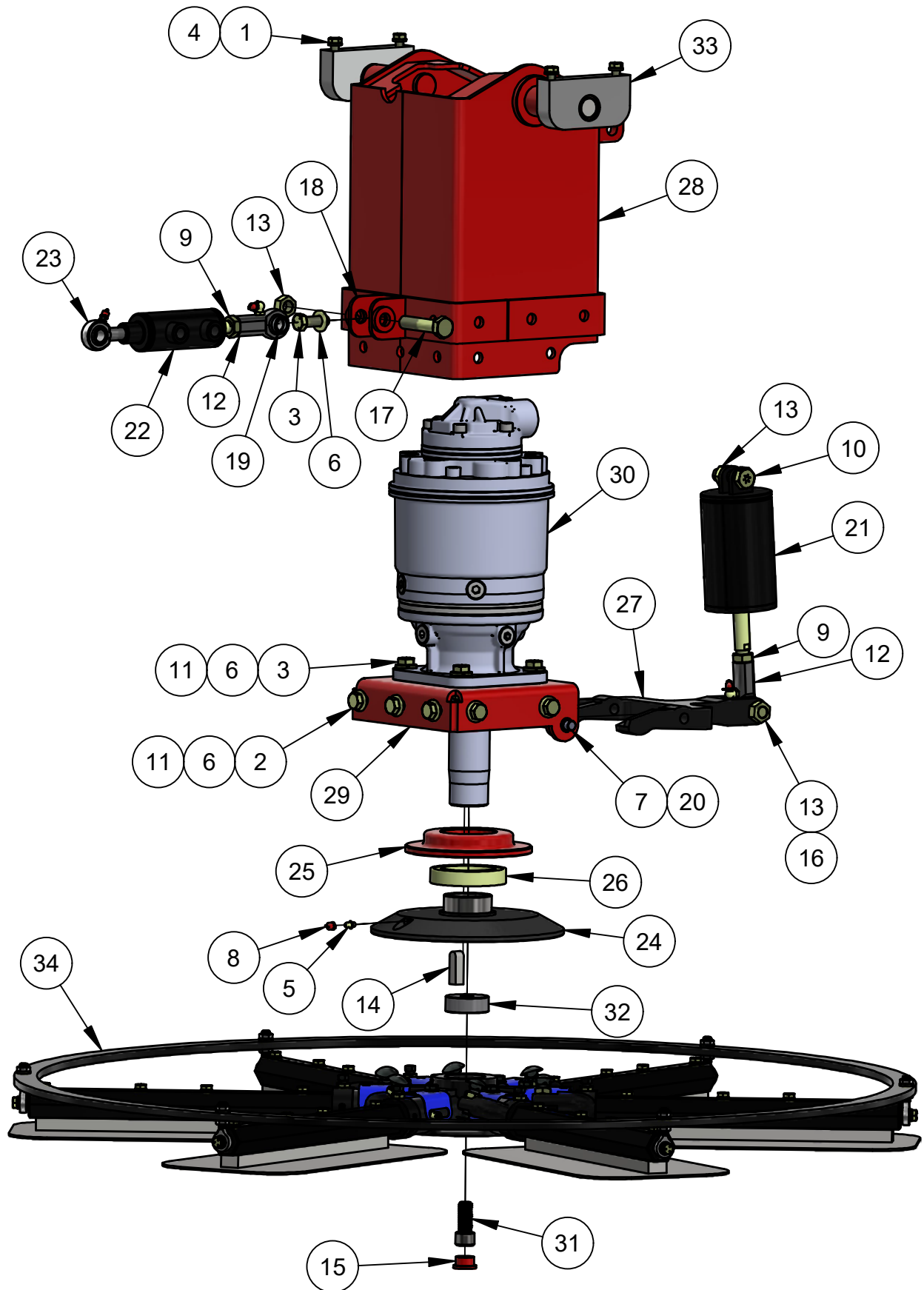
Rotor Assembly - Left Hand (074147) Parts List

SECTION 1 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	010036	Fastener, Bolt, HHCS, 3/8"-16 x 1", Grade 8	4
2	010068	Fastener, Bolt, HHCS, 1/2"-13 x 1-1/4", Grade 8	7
3	010069	Fastener, Bolt, HHCS, 1/2"-13 x 1-1/2" Grade 8	6
4	010091	Fastener, Washer, Lock, 3/8", Grade 8	4
5	010513	Fitting, Grease, Straight, 1/4"-28	1
6	011490	Fastener, Washer, Flat, 1/2", Grade 8	13
7	015677	Fastener, Retaining Ring, Ø7/16, E-Style	2
8	015692	Cap, Ø1/4, Red, Plastic	3
9	020688	Fastener, Nut, Hex, 5/8"-18, Grade 8	3
10	027969	Fastener, Bolt, HHCS, 5/8"-18 x 2", Grade 8	1
11	040208	Fastener, Nut, Hex, 1/2"-13, Grade 8	13
12	040265	Bushing, 3/4" Lg X Ø1.254" OD, Flange	2
13	043125	End, Rod, 5/8", Female	3
14	043269	Fastener, Nut, Hex, 5/8"-18, Grade 8	4
15	046231	Key, Rotor Shaft	1
16	046646	Plug, 7/8 Thread Protect Cap	1
17	047354	Fastener, Bolt, HHCS, 5/8"-18 x 2-1/4", Grade 8	1
18	048339	Fastener, Bolt, HHCS, 5/8"-18 x 3", Grade 8	2
19	048624	Channel, Cylinder Rod End Connector	2
20	048627	Spacer, Steering Connection	4
21	048628	Pin, Yoke Arm	1
22	048659	Cylinder, Pitch, 3" Bore x 1-1/2" Stroke	1
23	048660	Cylinder, Steering, 1-1/2" x 5/8"	1
24	048661	Cylinder, Steering, 1-1/2" x 1-1/4"	1
25	048747	Rod, End, 1/2", Male	2
26	049537	Plate, Pressure	1
27	049599	Cap, Bearing Cap	1
28	049697	Bearing, Spider Assembly	1
29	049698	Yoke Arm, Pitch	1
30	060672	Mount, for Hydraulic Motor	1
31	060675	Housing, Hydraulic Motor Mount, Left Hand	1
32	060679	Fastener, Bolt, Shoulder, 1" x 1", Grade 8	2
33	060680	Crosshead, 4-Way	1
34	079395	Motor, Hydraulic, Rotor, Right Hand Threads	1
35	064252	Fastener, Bolt, SHCS, 5/8"-11 x 1-1/2", Right Hand Thread, Grade 8	1
36	064253	Spacer, Washer, Retaining	1
37	064260	Assembly, Bearing	2
-	068157	REPLACEMENT - Bearing, Flanged, Bronze, 1" ID x 1" Long (for 064260 Bearing Assembly)	-
38	073512	Assembly, Lower Rotor, Left Hand	1

SECTION 1 PARTS

Rotor Assembly - Right Hand (074146)



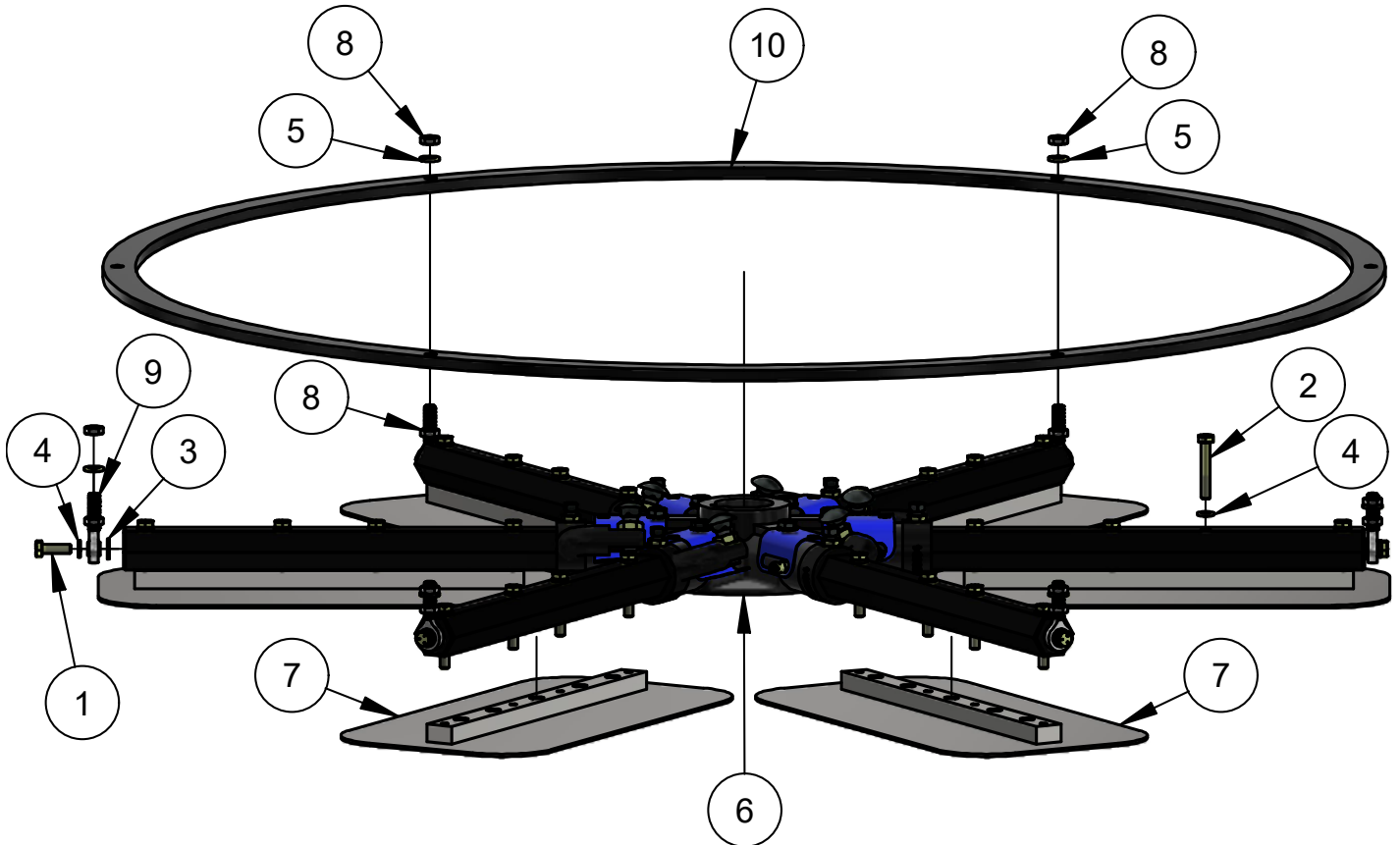
Rotor Assembly - Right Hand (074146) Parts List

SECTION 1 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	010036	Fastener, Bolt, HHCS, 3/8"-16 x 1", Grade 8	4
2	010068	Fastener, Bolt, HHCS, 1/2"-13 x 1-1/4", Grade 8	7
3	010069	Fastener, Bolt, HHCS, 1/2"-13 x 1-1/2", Grade 8	5
4	010091	Fastener, Washer, Lock, 3/8", Grade 8	4
5	010513	Fitting, Grease, 1/4"-28, Straight	1
6	011490	Fastener, Washer, Flat, 1/2", Grade 8	12
7	015677	Ring, Retaining, Ø7/16", E-Style	2
8	015692	Cap, Grease, Ø1/4", Red, Plastic	2
9	020688	Fastener, Nut, Hex, 5/8"-18, Grade 8	2
10	027969	Fastener, Bolt, HHCS, 5/8"-18 x 2", Grade 8	1
11	040208	Fastener, Nut, Stover Lock, 1/2"-13, Grade 8	12
12	043125	Rod, End, 5/8", Female	2
13	043269	Fastener, Nut, Stover, 5/8"-18, Grade 8	3
14	046231	Key, Rotor Shaft	1
15	046646	Cap, Plug, 7/8" Thread, Protection	1
16	047354	Fastener, Bolt, HHCS, 5/8"-18 x 2-1/4", Grade 8	1
17	048339	Fastener, Bolt, HHCS, 5/8"-13 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, HDX Series, 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	1
25	049599	Cap, Bearing	1
26	049697	Bearing, Spider Assembly	1
27	049698	Arm, Yoke, Pitch	1
28	060664	Housing, Hydraulic Motor Mount, Right Hand	1
29	060672	Mount, Hydraulic Motor	1
30	079396	Motor, Hydraulic, Rotor, Left Hand Threads	1
31	064251	Fastener, Bolt, SHCS, 5/8"-11 x 1-1/2", Left Hand Thread	1
32	064253	Washer, Retaining	1
33	064260	Assembly, Bearing	2
-	068157	REPLACEMENT - Bearing, Flanged, Bronze, 1" ID x 1" Long (for 064260 Bearing Assembly)	2
34	073513	Assembly, Lower Rotor, Right Hand	1

SECTION 1 PARTS

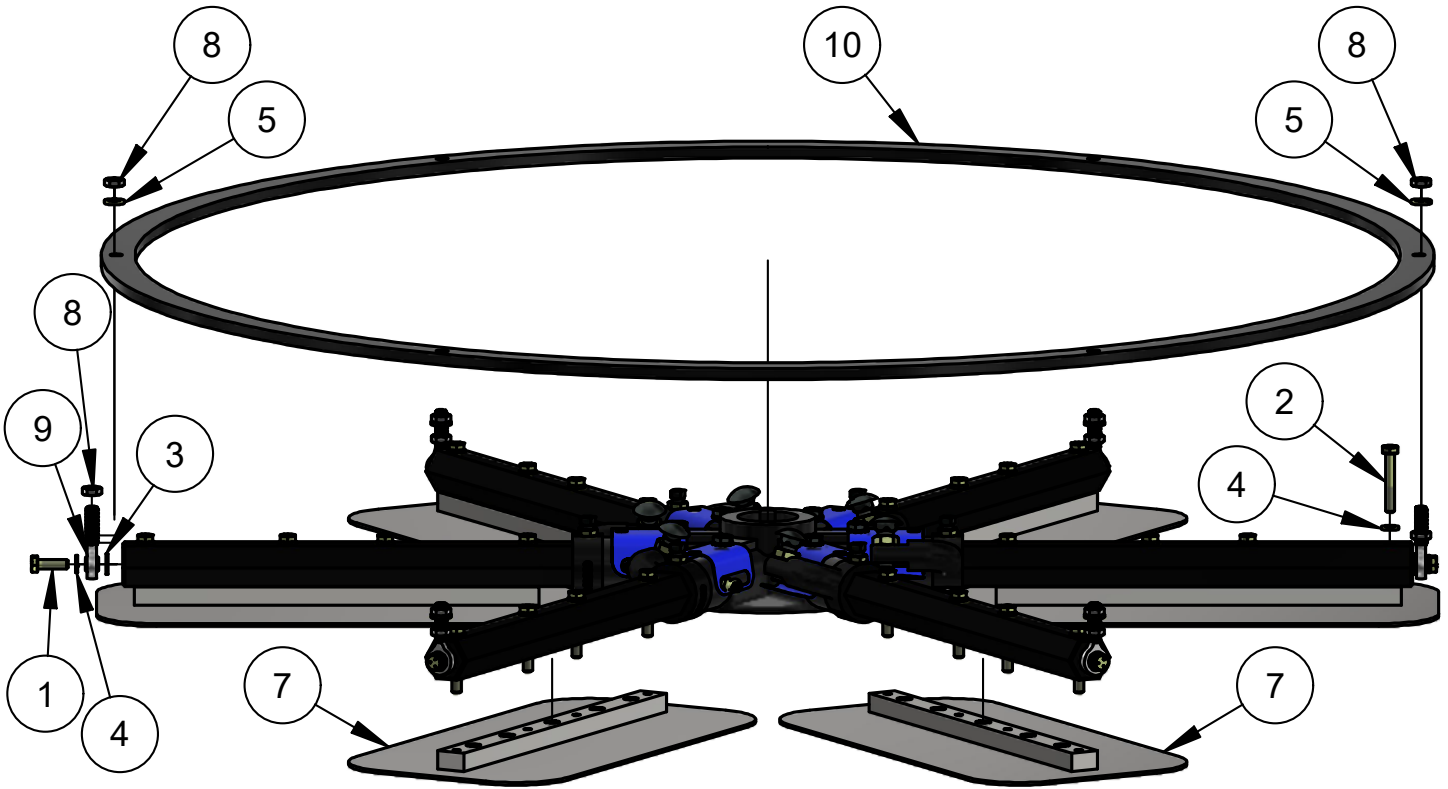
Lower Rotor Assembly - Left Hand (073512)



ITEM	PART #	DESCRIPTION	QTY
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	070550	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 (073513)

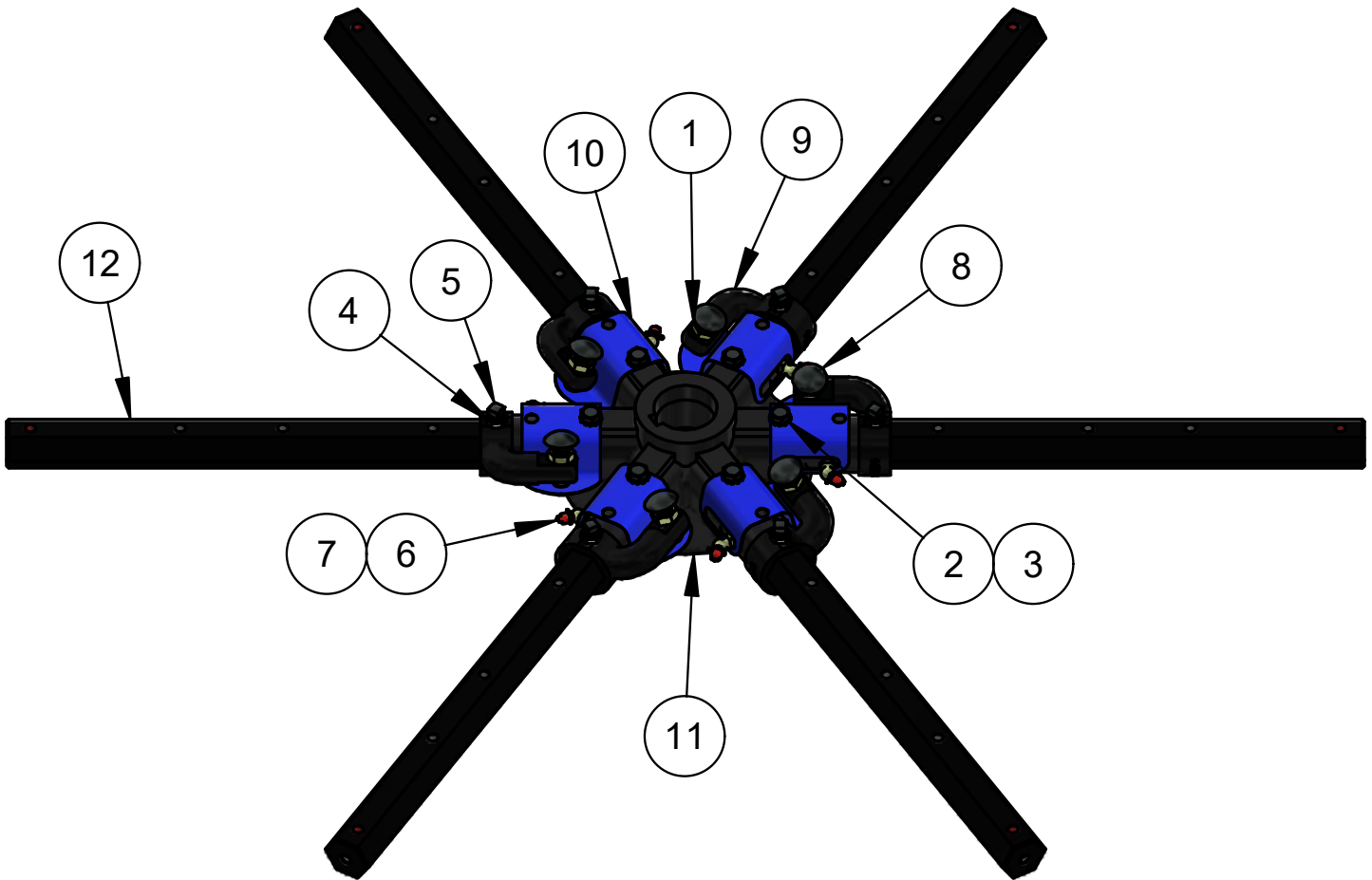
SECTION 1 PARTS



ITEM	PART #	DESCRIPTION	QTY
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	070550	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

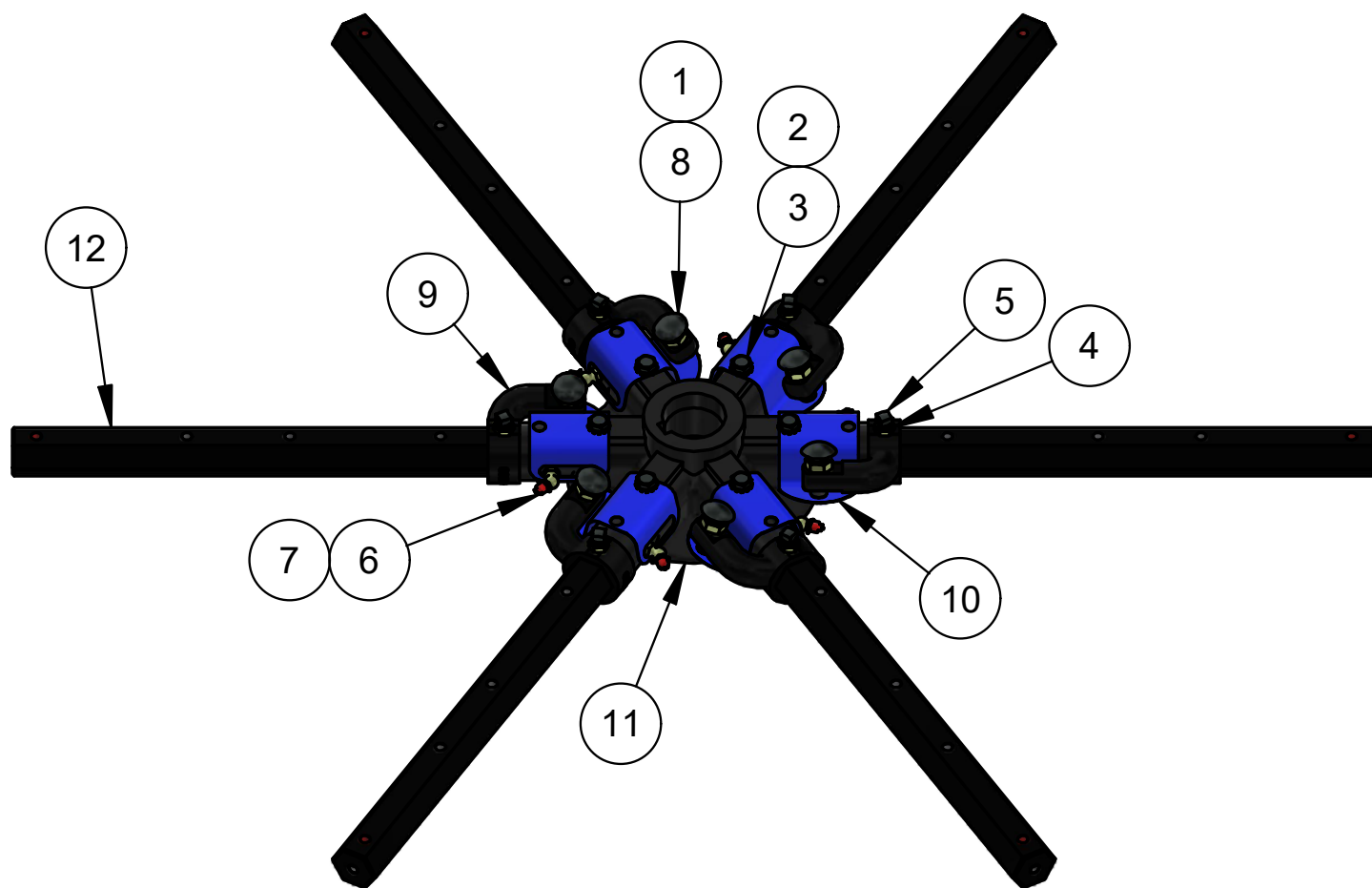
Spider Assembly - Left Hand (073512)



ITEM	PART #	DESCRIPTION	QTY
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	060537	Arm, Trowel, 4ft, for 6-Arm Spider	6

Spider Assembly - Right Hand (073513)

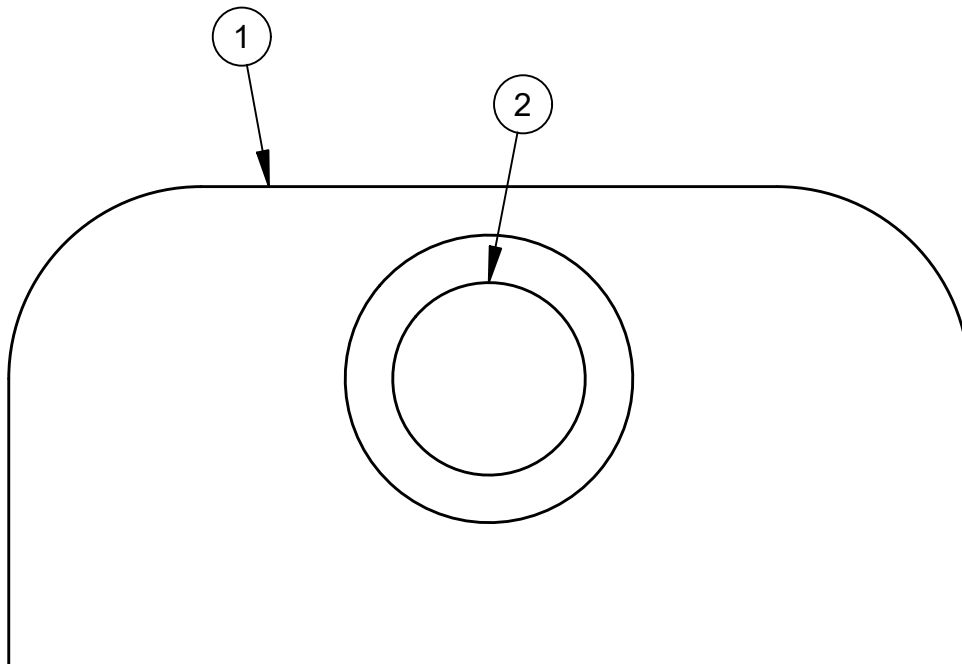
SECTION 1 PARTS



ITEM	PART #	DESCRIPTION	QTY
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	060537	Arm, Trowel, 4ft, for 6-Arm Spider	6

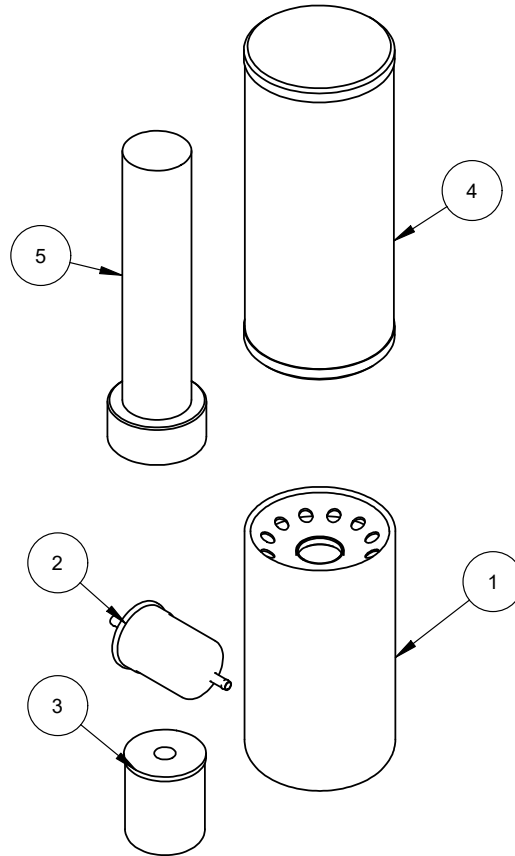
SECTION 1 PARTS

Bearing Block Assembly (064260)



ITEM	PART NO.	DESCRIPTION	QTY
1	064259	BLOCK, FOR BEARING BLOCK	1
2	068157	FLANGED BEARING, 1" ID X 1 LONG OIL IMPREGNATED BRONZE	1

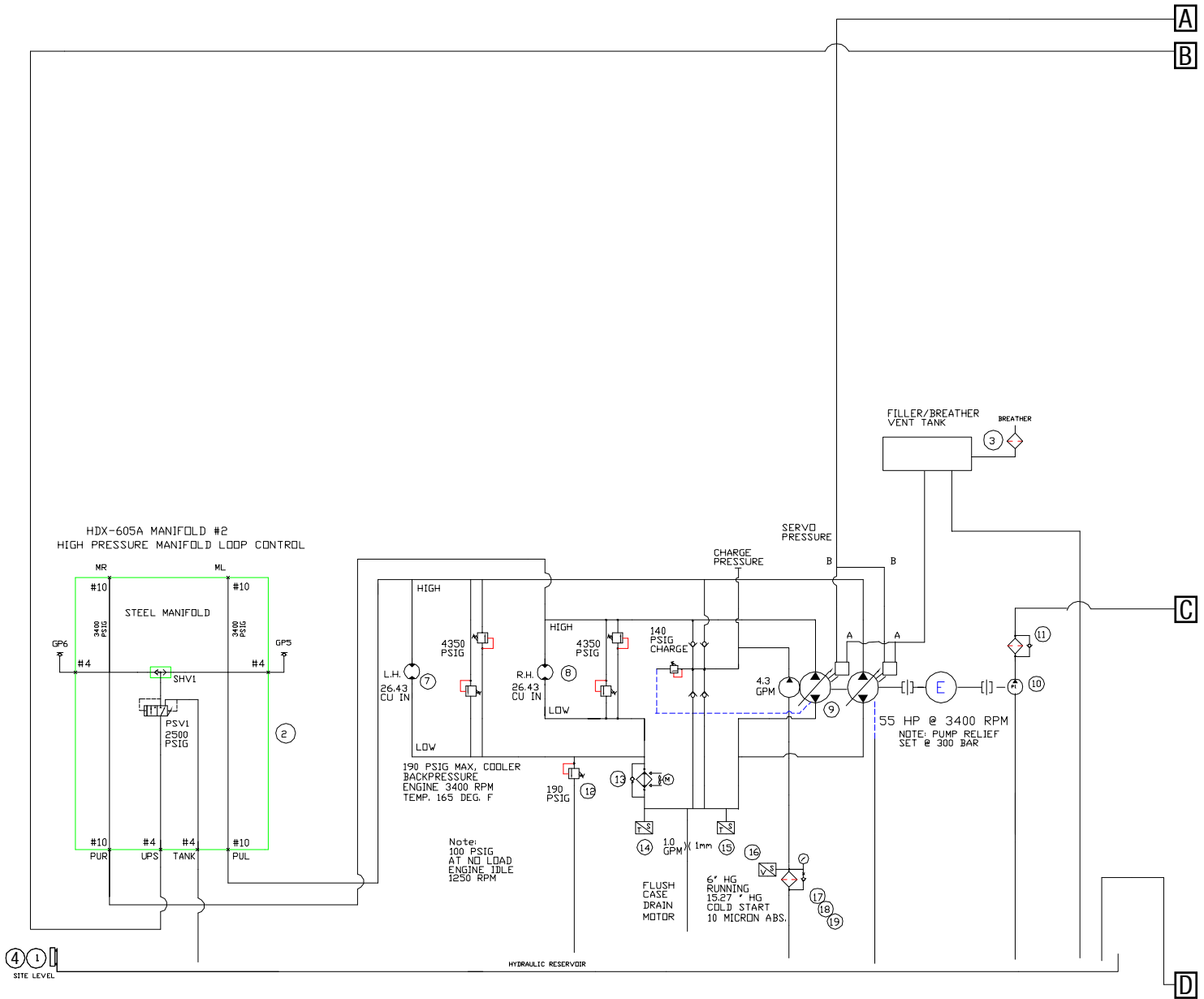
Note: Images for reference only



ITEM	PART NO.	DESCRIPTION	QTY
1	049801	FILTER, HYDRAULIC SPIN-ON	1
2	075759	FUEL FILTER, FOR PSI 2.4L ENGINE HDX615	1
3	079296	ELEMENT, OIL FILTER FOR 2.4L PSI ENGINE	1
4	079373	FILTER, ELEMENT AIR PRIMARY F/ 2.4L PSI	1
5	079374	FILTER, ELEMENT AIR SAFETY F/ 2.4L PSI	1

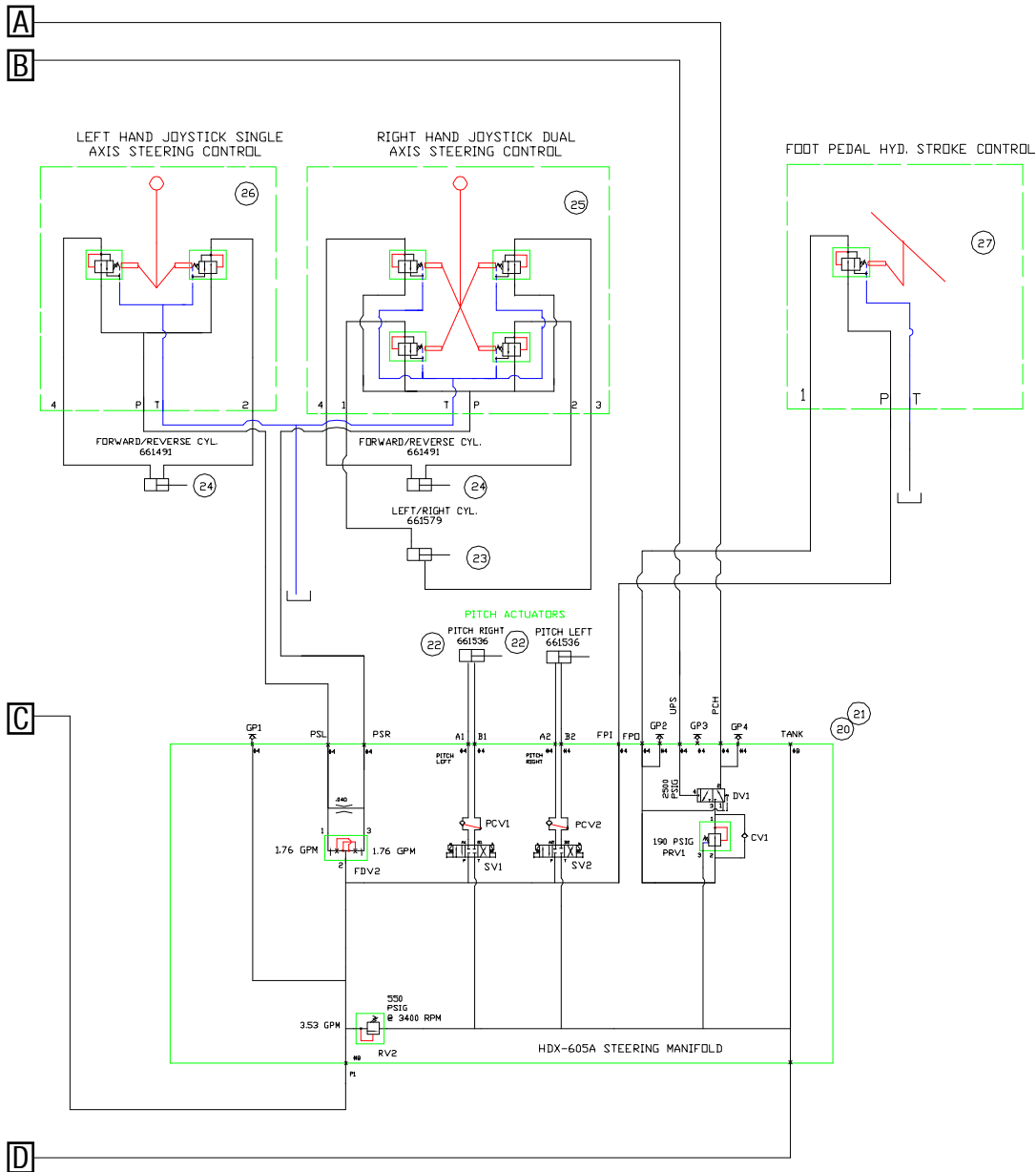
SECTION 1 PARTS

Hydraulic Schematic



Hydraulic Schematic

SECTION 1 PARTS



CUSTOMER: ALLEN ENG.
 DATE: 9/30/2018
 PROJECT: HDX-605A GASOLINE VERSION RIDING TROWEL
 FILE: ALLEN-118 (HDX-605A GASOLINE VERSION.DWG
 BY: MCKEAN FLUID-AIR SYS. INC.
 MICHAEL W. MCKEAN
 SPECIAL NOTES:

PUMP RELIEF: 300 BAR
 CHARGE PUMP: 150 DEGREES F AT 3400 RPM (140 PSIG)
 CHARGE PUMP: 150 DEGREES F AT 1250 RPM (100 PSIG)
 RV2 STEERING PRESSURE: 150 DEGREES F AT 3400 RPM (490 - 550 PSIG)
 COLD STARTUP TEMPERATURE :50 DEGREES F
 HIGH TEMPERATURE ALARM 180 DEGREES F
 FILTER VACUUM SWITCH SET AT 7 IN HG ALARM LIGHT

SECTION 1 PARTS

Hydraulic System - Components

Bill of Material - HDX615 Hydraulic System Components

ITEM #	AEC PART #	DESCRIPTION	QTY
-	077722	Kit, Component, Hydraulic, HDX615	1
1	046731	Sight Gauge	1
2	048657	Valve, High Pressure	1
3	047886	Breather with filter	1
4	045948	Magnetic plug	1
5	-	N/A	-
6	-	N/A	-
7	079396	Motor, SIA LH threaded shaft RH SOM	1
8	079395	Motor, SIA RH threaded shaft LH SOM	1
9	068610	Pump, Tandem piston	1
10	068611	Pump, Auxiliary Gear	1
11	043475	Filter assembly, In-line	1
12	068624	Assembly, Cooler Relief Valve (set @ 190 PSI)	1
13	068616	Cooler, Air/Oil	1
-	068620	Switch, Cooler Fan, Relay	1
14	068622	Switch, Cold Start Temperature	1
15	068623	Switch, High Temperature (80°C, N.O.)	1
16	068626	Switch, Vacuum (Deutsch Connector, N.O.)	1
17	066149	Filter, Suction head	1
18	049801	Filter, Element, Suction, 10 Micron	1
19	046369	Gauge, Suction Filter	1
20	068619	Manifold, Steering	1
21	-	N/A	-
22	048659	Cylinder, Pitch	2
23	048660	Cylinder, Steering, Left/Right	1
24	048661	Cylinder, Steering, Forward/Reverse	2
25	064511	Joystick, Right Hand	1
26	064510	Joystick, Left Hand	1
27	046921	Valve, Foot Pedal	1

Hydraulic System - Fitting Kit

SECTION 1 PARTS

NOTICE

The fitting part numbers below are for reference only. For additional details regarding the hydraulic fittings contact AEC Customer Service

HDX615 Hydraulic System Fitting Kits (077724)	
DESCRIPTION	QTY
Tandem Pump	-
6500-10-10	3
6500-10-10-0-2P5	2
9002-10-08	5
2501-4-2	2
9002-4-4	5
9002-12-8	1
6602-4-4-4	2
Steering Manifold	-
6400-4-4-0	11
SMK20-7/16UNF-VE-C6F	2
6400-9-8-0	1
6801-6-8 NWO	1
Auxiliary Pump	-
6400-10-10-0	2
9054-90-SP	1
6809-10-10 NWO	1
Vent Tank	
SPB-1-0-10-N04-0	1
6400-4-8-0	1
Main Frame	-
2700-4-4LN-0	5
SMK20-JIC1/4-VK	5
6409-209	2
6602-6-6-6	1
SWL-CL-5-WR	1
7574051, Magnetic plug	3
6407-16-16 NWO	1
2406-6-4	1
6801-4-8 NWO	1
6409-8-0	1
6801-6-8 NWO	1
6804-6-8-6 NWO	2
6400-10-12-0	2
6400-8-12-0	1
6410-20-16-0	1
6801-16-16 NWO	1
6400-8-8-0	

HDX615 Hydraulic System Fitting Kits (077724)	
DESCRIPTION	QTY
Pitch & Steer Cylinder	-
6400-4-6-0	10
Foot Valve	-
6801-6-6 NWO	1
6801-4-6 NWO	2
LH Motor	-
6400-10-16	2
9002-6-4	2
9002-4-4	1
RH Motor	-
6400-10-16	2
9002-6-4	1
6500-6-6	1
9002-L-4-4	1
9002-4-4	1
Unloader Valve	-
Smk20-7/16UNF-UE-C6F	1
6410-10-4-0	4
6400-4-4	6
Cooler	-
6602-12-12-12-2PS	1
6565-12-12	1
6504-12-12	1
6602-12-12-12-2PS	1
2501-4-2	1
CFJ4-31-SS	1
2404-4-2	1
6400-12-8	1
304-C-12-4PS	1
6400-8-8	1
6602-12-12-12	3
9002-12-16	2
RH Joystick	-
6400-4-4	5
6400-6-4	1
LH Joystick	-
6400-4-4	3
6400-6-4	1

SECTION 1 PARTS

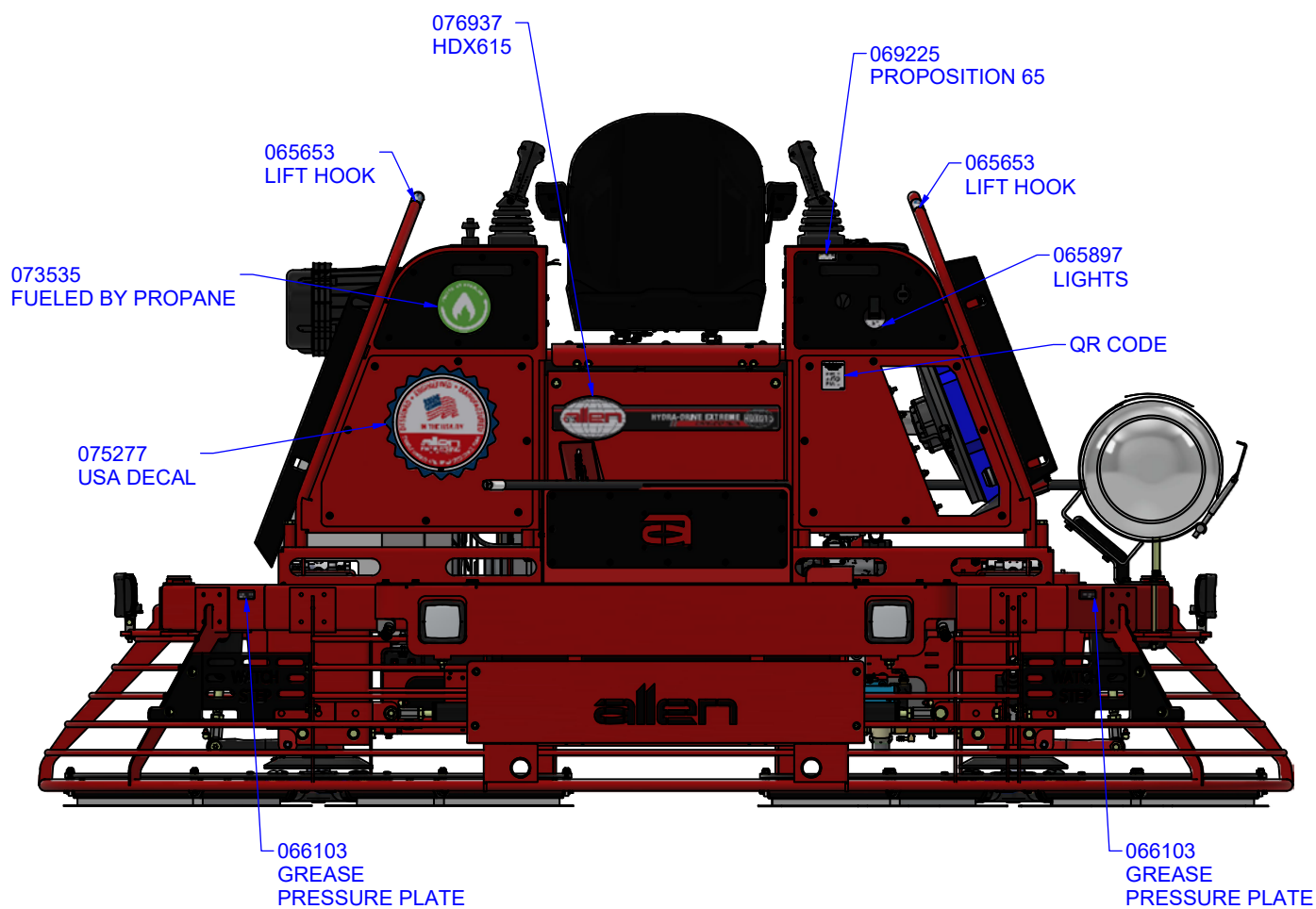
Hydraulic System - Hoses

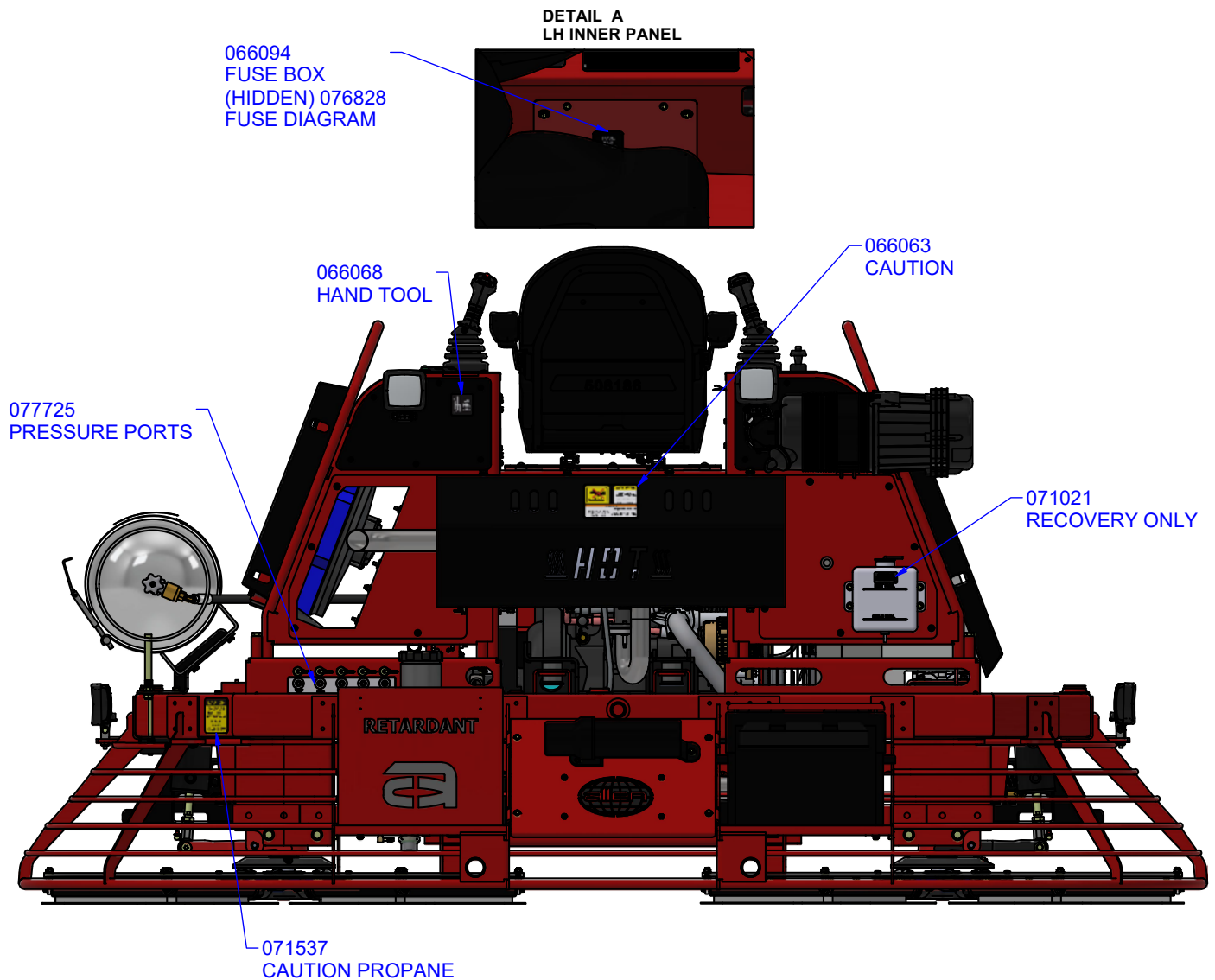
Bill of Material - HDX615 Hydraulic System Hoses (077723)			
HOSE #	CUT LENGTH (IN)	CONNECTION DETAIL	QTY
-	-	Kit, Hose, Hydraulic, HDX615	1
1	9	Back of Pump to Front	1
2	9	Back of Pump to Front	1
3	14	Pump to Steering Block	1
4	17	Auxiliary Pump to Steering Block	1
5	80	Left Hand Pitch Cylinder to Steering Block	1
6	80	Left Hand Pitch Cylinder to Steering Block	1
7	72	Left/Right Cylinder to Joystick	1
8	72	Left/Right Cylinder to Joystick	1
9	44	Left Hand Forward/Reverse Cylinder to Joystick	1
10	44	Left Hand Forward/Reverse Cylinder to Joystick	1
11	44	Right Hand Forward/Reverse Cylinder to Joystick	1
12	44	Right Hand Forward/Reverse Cylinder to Joystick	1
13	48	Right Hand Pitch Cylinder to Steering Block	1
14	48	Right Hand Pitch Cylinder to Steering Block	1
15	84	Right Hand Motor to Left Hand Motor	1
16	58	Left Hand Motor to Pump	1
17	69	Left Hand Motor to Cooler	1
18	29	Right Hand Motor to Pump	1
19	23	Right Hand Motor to Cooler	1
20	18	Right Hand Motor to Tank	1
21	36	Tank to Left Hand Joystick	1
22	44	Tank to Right Hand Joystick	1
23	43	Tank to Steering Block	1
24	28	Tank Filter to Pump	1
25	16	Unloader to Pump	1
26	21	Unloader to Pump	1
27	16	Tank to Auxiliary Pump	1
28	16	Tank to Pump	1
29	76	Steering Block to Joystick	1
30	45	Pressure From Steering Block to Joystick	1
31	31	Cooler Out to Front of Pump	1
32	47	Cooler Out to Back of Pump	1
33	35	Cooler to Left Hand Motor	1
34	30	Cooler to Back Tank	1
35	29	Foot Valve to Tank	1
36	18	Foot Valve to Front of Steering Block	1
37	32	Foot Valve to Top Back of Steering Block	1
38	21	Tank to Vent Tank	1
39	20.5	Right Hand Motor to Tank	1
40	-	Test Hose Assembly (20in, 508mm)	2
41	-	Test Hose Assembly (27in, 686mm)	3

SECTION 2: DECALS

SECTION 2 DECALS

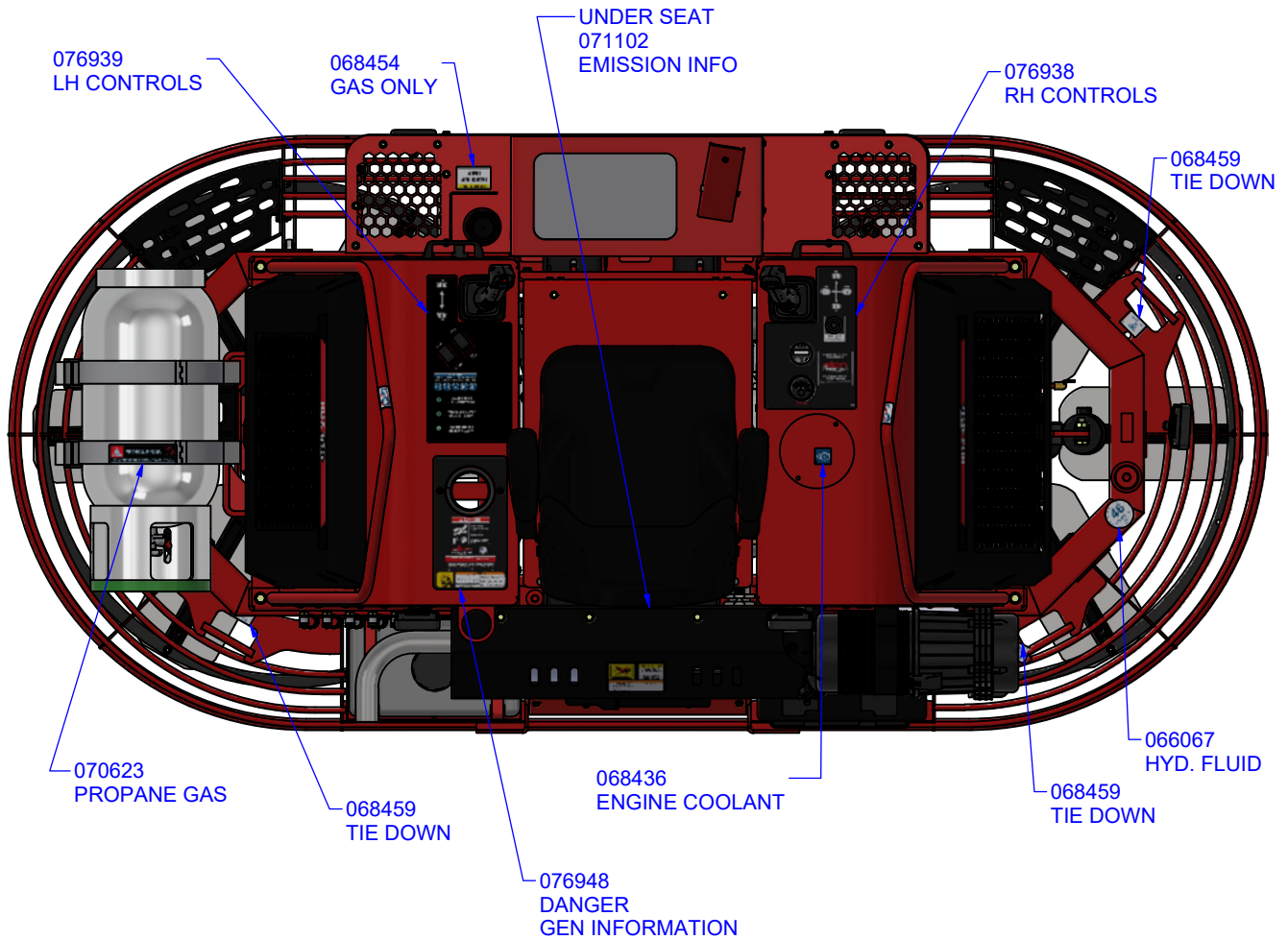
Decals - Front (Kit #: 076114)



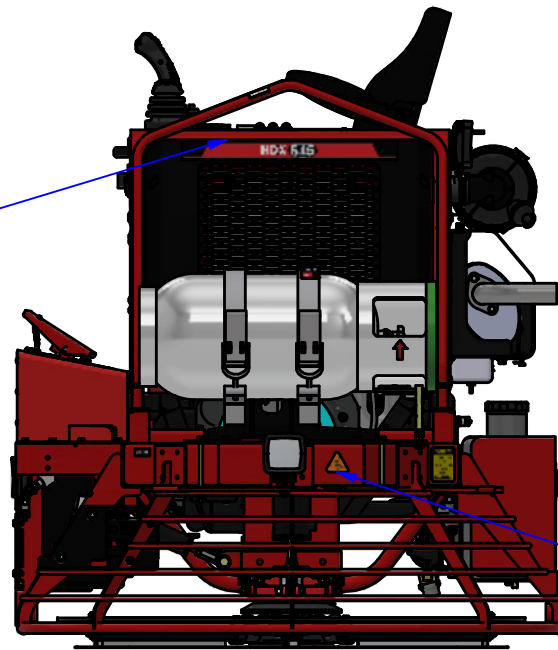


SECTION 2 DECALS

Decals - Top (Kit #: 076114)

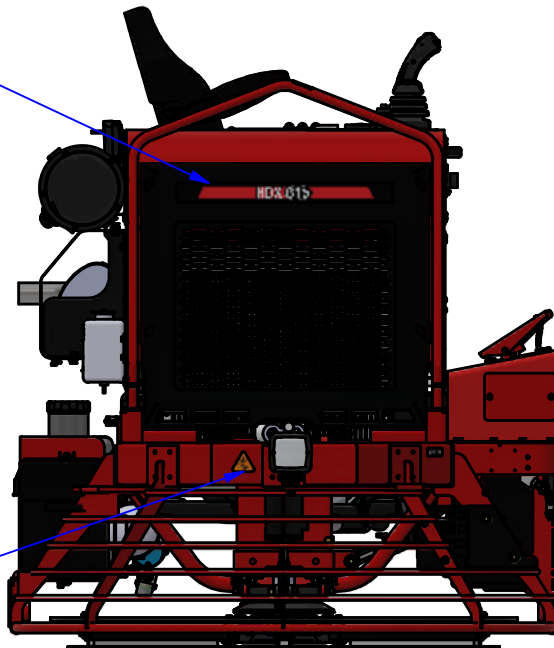


076936
SIDE MODEL DECAL



065656
DROP HAZARD

076936
SIDE MODEL DECAL



065656
DROP HAZARD

Revision Detail

MANUAL REVISION DETAIL

REVISION #	REVISION DATE	REVISION REFERENCE #	REVISION BY
-	07/24	Initial Release	MK
A	01/30	24-622 - Blade PN Change	MK
B	10/25	Added Filter parts page	MK
C	01/26	26-051 - Corrected Hyd motor PNs	MK
D	07/26	26-337 Corrected air cleaner PN 078209 to 078206	MK

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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.

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