

RIDING TROWEL

HDX705



PARTS & DECALS MANUAL

Manual Part #: 081137P | Revision: A
Language: English | Original Instructions



For information regarding the following, please see the “HDX705 - Safety & Operator Manual”

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

HDX705 RIDING TROWEL

PARTS & DECAL MANUAL

This manual covers the products listed below:

<u>Part No.</u>	<u>Description</u>
078550	HDX705 Riding Trowel, 6-Boss, Gasoline

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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:

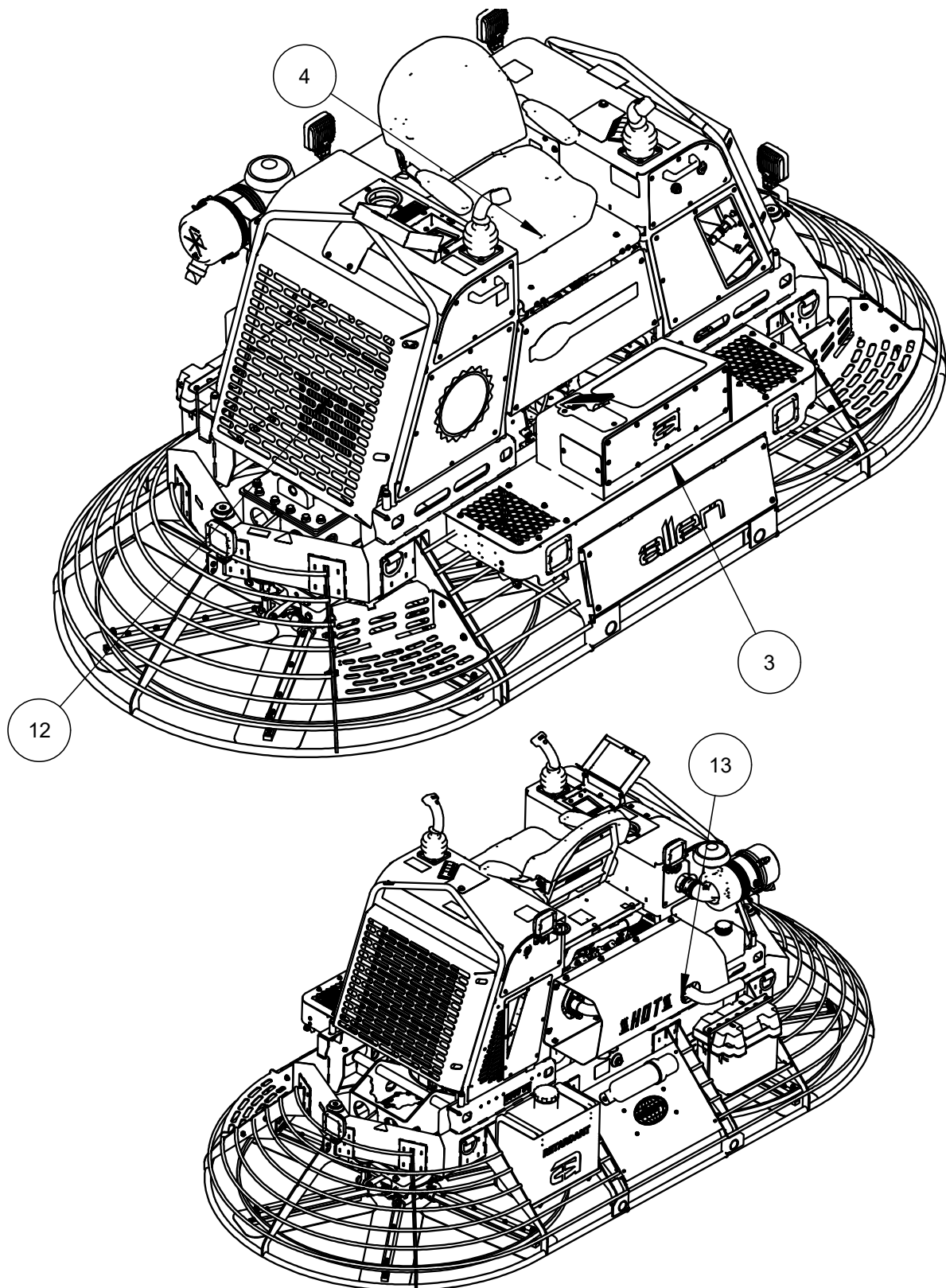
1. All orders for service parts - include the serial number for the machine. Shipment will be delayed if this information is not available.
2. Include correct description and part number
3. Specify exact shipping instructions, including the preferred routing and complete destination address.
4. **DO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

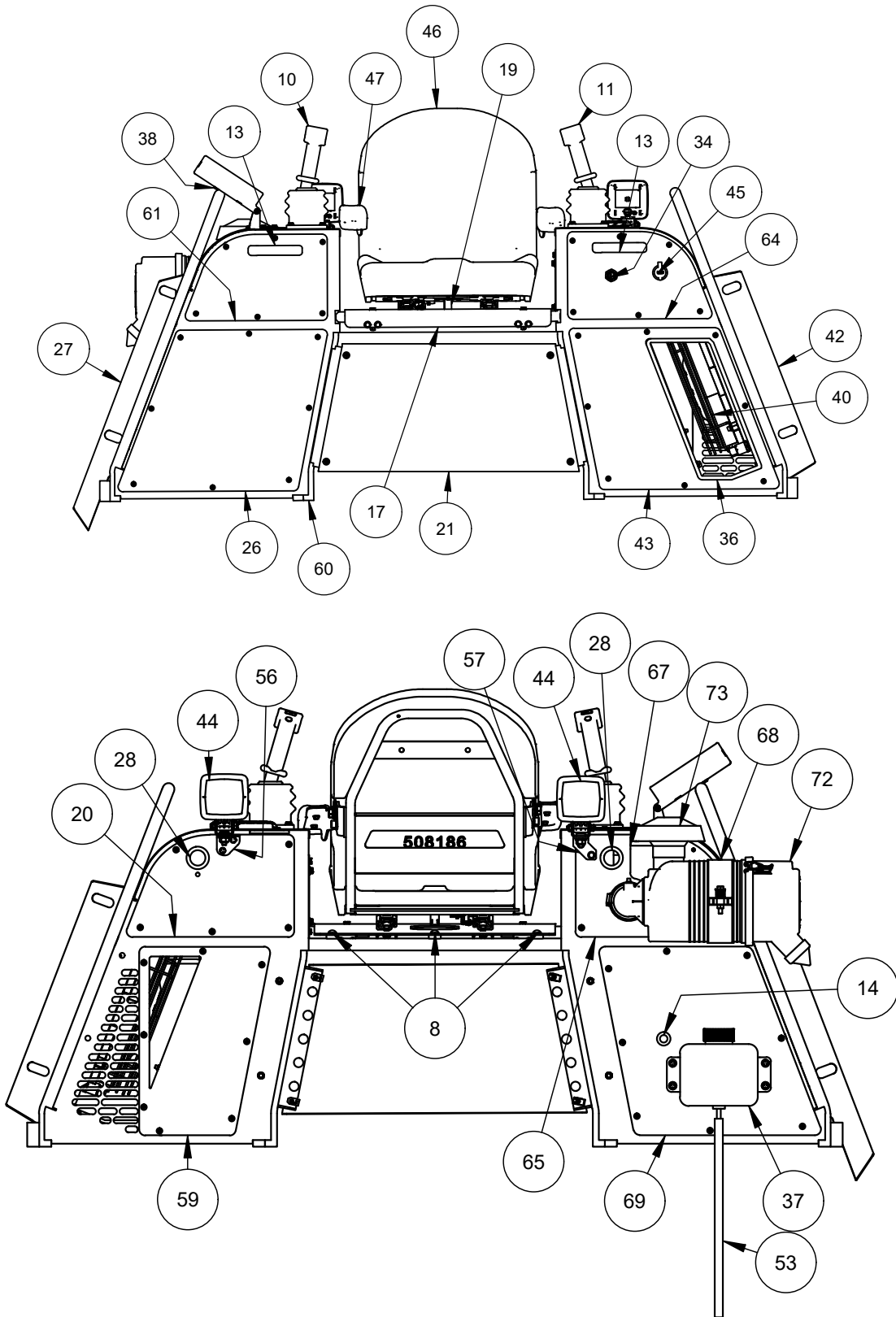
ITEM	PART NO.	DESCRIPTION	QTY
1	070072	ELECTRICAL HARNESS, MAIN FOR HDX RIDER	1
2	070308	KIT, COMPONENT FOR HDX RIDER	1
3	078551	ASSEMBLY, HDX705 MAIN FRAME W/ FORD 2.5L ENGINE	1
4	078581	ASSEMBLY, SEAT FRAME ASSEMBLY HDX705	1
5	078596	KIT, HDX705 DECAL	1
6	078631	KIT, HYDRAULIC HOSE	1
7	078631	KIT, HDX705 HOSE	1
8	078632	KIT, HYDRAULIC FITTING	1
9	078632	KIT, HDX705 FITTING	1
10	078633	KIT, HYDRAULIC COMPONENTS	1
11	078633	KIT, HDX705 COMPONENTS	1
12	079000	ASSEMBLY, 2.5L 84HP GAS ENGINE F/ HDX705	1
13	079105	ASSEMBLY, MUFFLER FOR FORD 2.5L ENGINE	1
14	079466	HARNESS, WIRING ADAPTER FOR FORD ENGINE	1

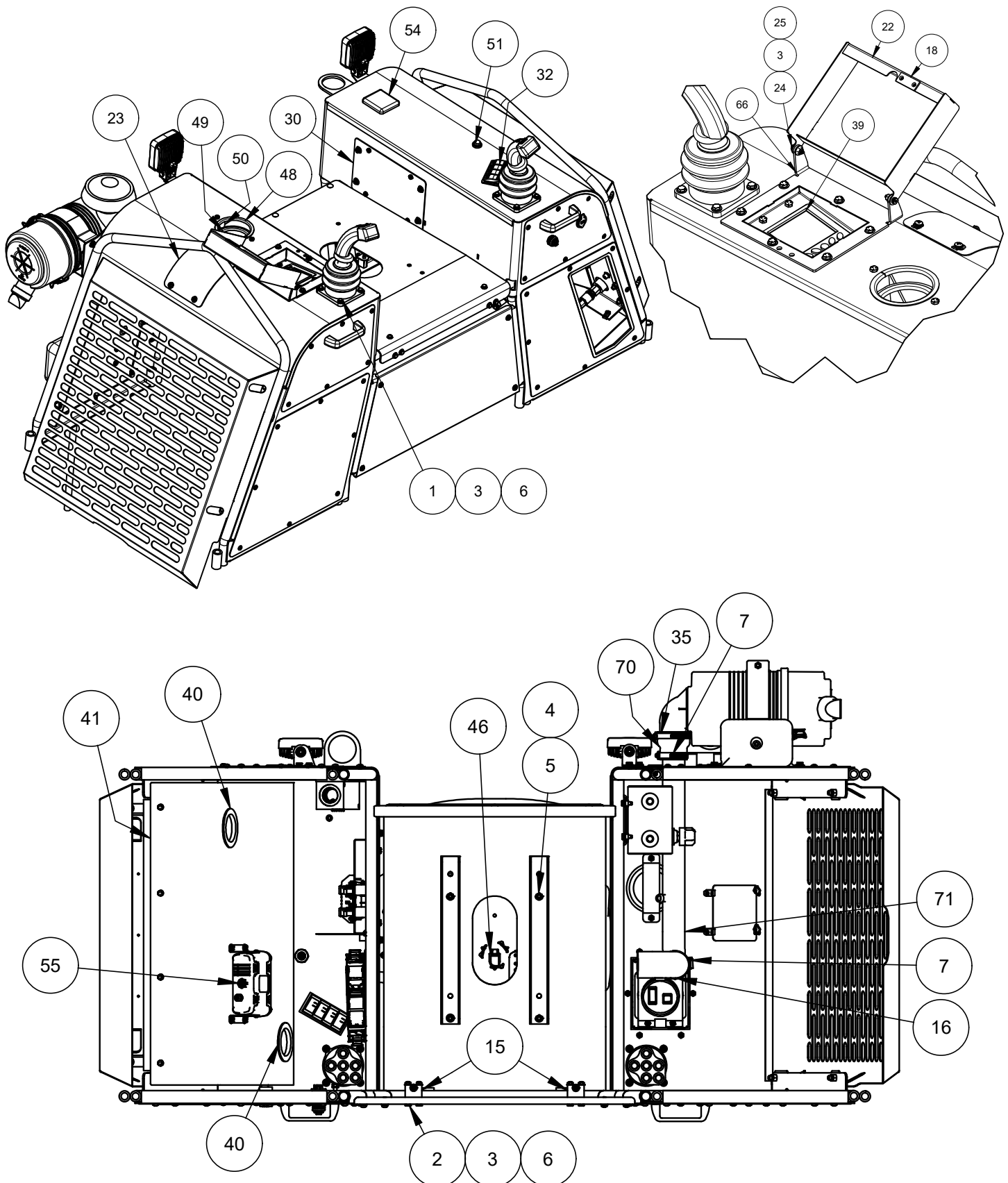
NOTICE

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

SECTION 1 PARTS

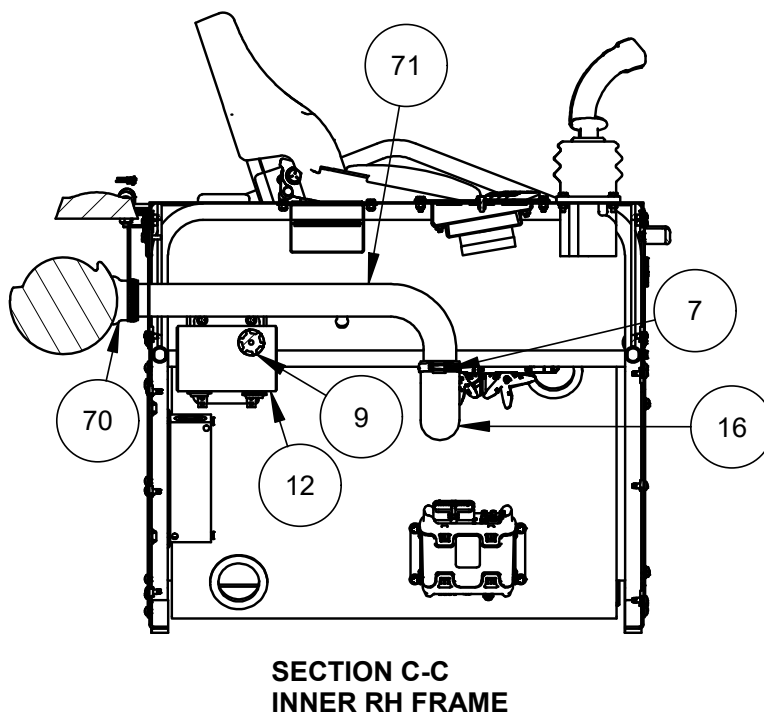
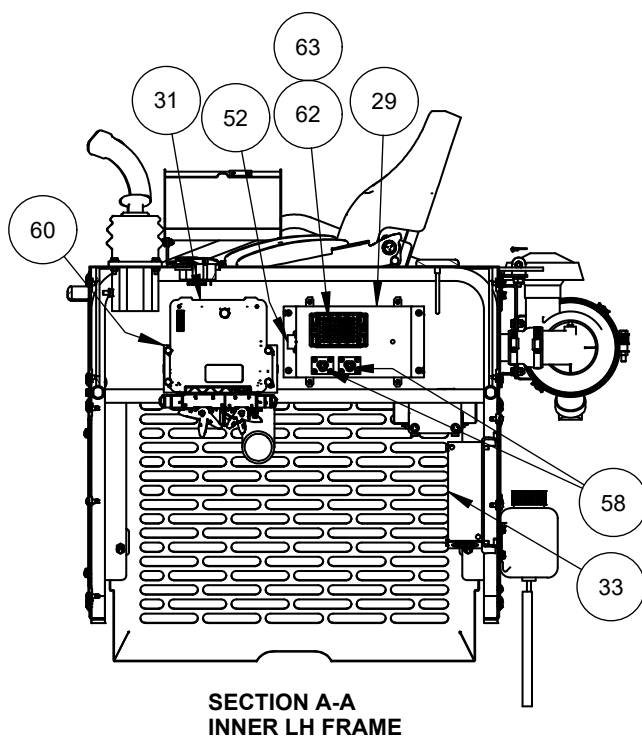
Seat Frame Assembly (078581)





SECTION 1 PARTS

Seat Frame Assembly (078581) Continued



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SECTION 1 PARTS

Assembly, Seat Frame Parts List (078581)

ITEM	PART NO.	DESCRIPTION	QTY
1	010003	FASTENER, HHCS 1/4-20 X 1	14
2	010007	FASTENER, HHCS 1/4-20 X 2	6
3	010081	FASTENER, FW 1/4	63
4	010082	FASTENER, FW 5/16	6
5	012612	FASTENER, HEX NUT NYLOCK 5/16-18	6
6	020542	FASTENER, HEX NUT STOVER LOCK 1/4-20	23
7	044831	HOSE CLAMP (1-13/16" - 2-3/4")	2
8	047665	RUBBER BUMPER	3
9	047886	CAP, FILLER BREATHER	1
10	048302	JOYSTICK, RIGHT HAND DUAL AXIS	1
11	048303	JOYSTICK, LEFT HAND SINGLE AXIS	1
12	048595	TANK, VENT	1
13	048678	HANDLE, LOAD RATED NYLON	2
14	048681	RUBBER GROMMET	1
15	049550	CONNECTOR, SEAT LID PIVOT	2
16	049581	2" ID 90 DEGREE ELBOW RUBBER	1
17	056224	SEAT LID WELDMENT	1
18	056920	MAGNETIC LATCH	1
19	061374	SWITCH, FOR 069874 SEAT - NORMALLY OPEN	1
20	064496	COVER, REAR TOP RH & LH FOR SEAT FRAME	1
21	064509	COVER, FRONT CENTER	1
22	064526	COVER, ENGINE DISPLAY	1
23	064528	COVER, RADIATOR ACCESS POINT FOR SEAT FRAME ASSEMBLY	1
24	064529	FASTENER, SHOULDER BOLT 1/4" X 5/16 LONG STAINLESS	2
25	064530	FASTENER, HEX NUT NYLOCK 10-24	2
26	064748	COVER, FRONT BOTTOM LH SEAT FRAME ASSEMBLY	1
27	064760	GUARD, END SEAT FRAME	1
28	064771	GROMMET, RUBBER FITS 1 1/2" PANEL HOLE X 16 GA THICKNESS WITH 1 1/4" ID.	2
29	065133	TOP, GROUNDING BOX	1
30	065134	FRONT COVER PLATE, FOR GROUNDING LUG BOX	1
31	065139	CONTROLLER, BOSH REXROTH	1
32	065143	4 SWITCH BLOCK KIT	1
33	065144	HEADER, MANIFOLD	1
34	065191	KEY SWITCH FOR HATZ ENGINE	1
35	065570	HOSE CLAMP, HOSE CLAMP 2 1/8" TO 4"	1
36	065983	RUBBER TRIM, FOR RH FRONT PANEL CUT 40"	1
37	066028	COOLANT RECOVERY BOTTLE F/ HATZ ENG.	1

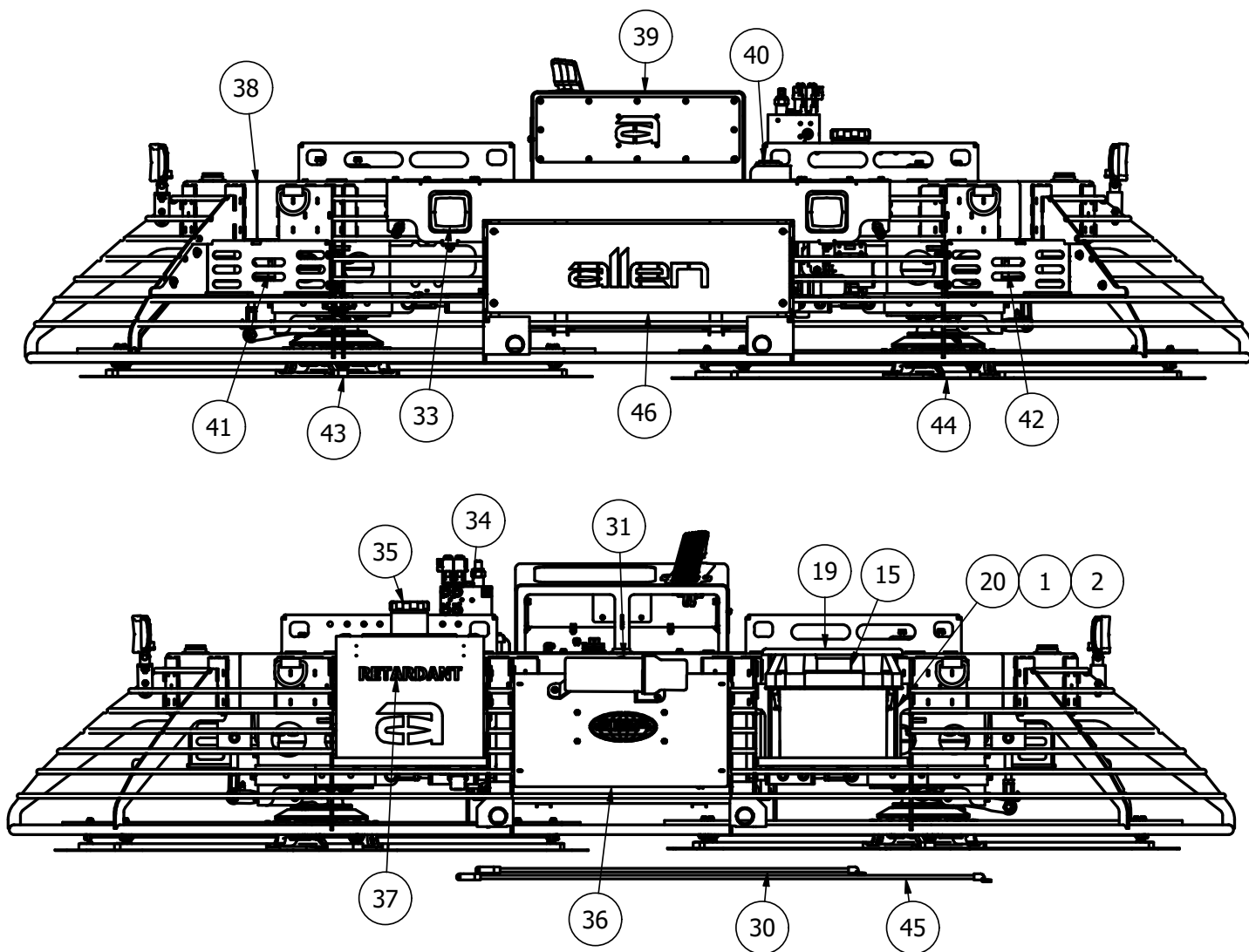
Assembly, Seat Frame Parts List (078581) Continued

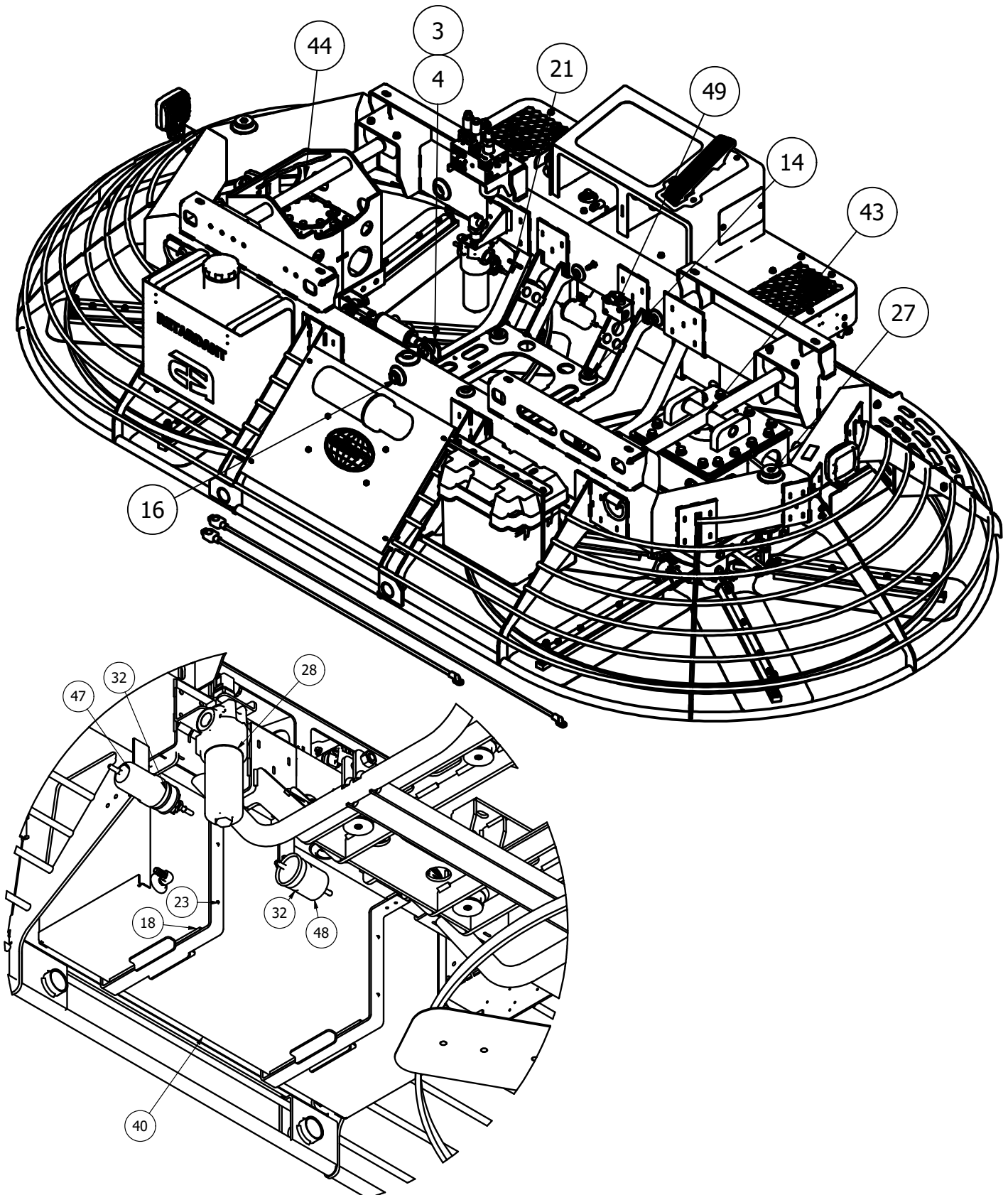
SECTION 1 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
38	066114	BUMPER, POLYURETHANE 1/2" SQ X 1/8" TALL ADHESIVE BACKING	1
39	066227	MURPHY CONTROLLER, PV380	1
40	066911	SUB-ASSEMBLY, OIL COOLER AND MOUNTING	1
41	066912	SHROUD, OUTER FOR COOLER WITH FAN	1
42	066913	COVER, RH SEAT FRAME OVER COOLER	1
43	067414	COVER, BOTTOM FRONT RH SEAT FRAME	1
44	069835	LIGHT, LED 1200 LUMEN 12 VDC (1.5 AMP)	2
45	069850	USB RECEPTICAL 12VDC	1
46	069874	SEAT, RIDER	1
47	069875	ARM REST, RIDER SEAT (RH/LH SET)	1
48	071123	RUBBER TRIM CUT 12.500" LONG FOR TOP SECTION OF CUP HOLDER	1
49	071124	RUBBER TRIM CUT 10.500" LONG FOR MIDDLE SECTION OF CUP HOLDER	1
50	074251	WELDMENT, CUP HOLDER	1
51	076952	LIGHT RED INDICATOR	1
52	077525	BUZZER, 12V INDICATOR PIEZO BUZZER	1
53	077830	HOSE, COOLANT 3/8" I.D. X 16 1/2" LONG	1
54	077893	ANTENNA, FOR TELEMATICS FOR HDX RIDERS	1
55	077894	CONTROLLER, TELEMATICS	1
56	078397	BRACKET, LH REAR FOR HDX705	1
57	078577	BRACKET, RH REAR FOR HDX705	1
58	078578	CONNECTOR, 3*WAY RECEPTACLE FLANGE MOUNT (DEUTSCH)	2
59	078579	COVER, REAR LH LOWER FOR SEAT FRAME	1
60	078590	WELDMENT, HDX705 SEAT FRAME	1
61	078592	COVER, FRONT RH FOR HDX705 SEAT FRAME ASSEM.	1
62	078593	BASE, 48 WAY BRIC	1
63	078594	MEDIUM BRIC COVER WITH CPAs	1
64	079081	COVER, FRONT TOP LEFT HAND FOR HDX705 SEAT FRAME	1
65	079108	COVER, REAR TOP RH & LH FOR SEAT FRAME HDX705	1
66	079110	WELDMENT, ENGINE DISPLAY F/ HDX705 FORD 2.5L ENGINE	1
67	079315	BRACKET, AIR CLEANER 90 DEGREE INLET HDX705	1
68	079475	MOUNT, AIR CLEANER	1
69	079995	COVER, BOTTOM REAR LH SEAT FRAME HDX705	1
70	080785	RUBBER REDUCER	1
71	081024	INTAKE TUBE W/ PORT FOR PVC FITTING	1
72	081025	AIR CLEANER, FPG RADIAL SEAL, 2.5" I/O	1
73	081026	HOOD INLET A/C 2" ID PLASTIC	1

SECTION 1 PARTS

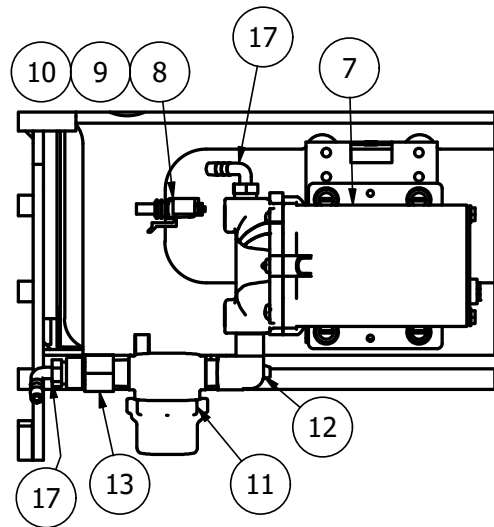
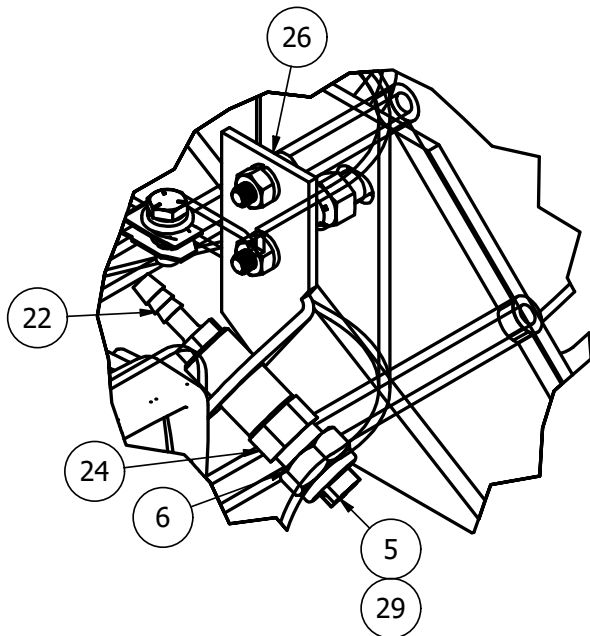
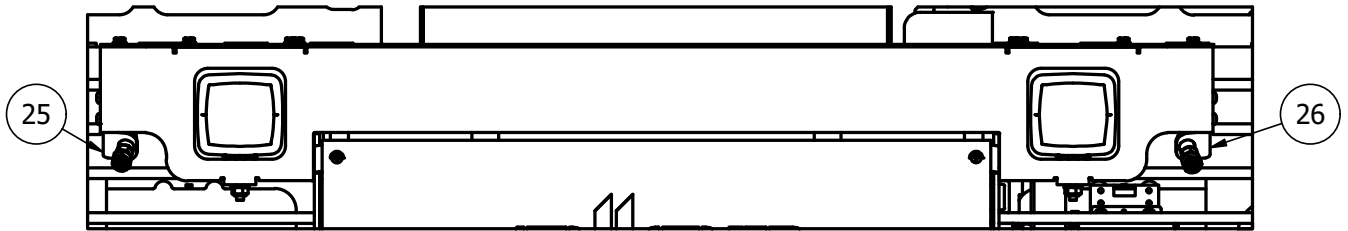
Assembly, Main Frame (078551)





SECTION 1 PARTS

Assembly, Main Frame Continued (078551)



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SECTION 1 PARTS

Assembly, Main Frame Parts List (078551)

ITEM	PART NUMBER	DESCRIPTION	QTY
1	010081	FASTENER, FW 1/4	23
2	010098	FASTENER, HEX NUT 1/4-20	8
3	010110	FASTENER, HEX NUT 5/8-11	3
4	010632	FASTENER, HHCS 5/8-11 X 2	3
5	012702	TIP, 80°x0.10 GPM BRASS SPRAY	2
6	012705	RETAINER, BRASS SPRAY TIP	2
7	033735	PUMP, SPRAY SYSTEM	1
8	038641	HOUSING, 2 POSITION WEA PAK FEMALE	1
9	038644	TERMINAL, 16-14 WEA PAK FEMALE	2
10	038648	SEAL, 16-14 AWG GREY CAVITY	2
11	040209	FILTER, RETARDANT SPRAY SYSTEM	1
12	040387	ELBOW, 3/8 BRASS 90° STREET	1
13	040388	FITTING, 3/8X1/4 BRASS FM TO FM REDUCER	1
14	045757	ISOLATOR, REAR MOTOR MOUNT	4
15	046696	BOX, STANDARD BATTERY	1
16	046731	SIGHT GLASS F/ HYD RESERVOIR.	1
17	047933	ELBOW, 1/4 PUSHLOK x 1/4 NPT PLASTIC	2
18	048562	CUSHION, BOTTOM TANK (RUBBER)	2
19	048563	CHANNEL, BATTERY HOLD-DOWN	1
20	048589	ROD ALL THREAD, 1/4-20 BATTERY HOLD DOWN	2
21	048652	TEE, PLASTIC 1/4 x 1/4 x 1/4	1
22	048653	BARB, HOSE PLASTIC 1/4" x 1/4 NPT	2
23	048676	PLUG, HOLLOW SBR RUBBER	8
24	049957	NOZZLE BODY MALE STRAIGHT	2
25	049981	WELDMENT, RH SPRAY BRACKET	1
26	049982	WELDMENT, LH SPRAY BRACKET	1
27	065017	FASTENER, PLUG SAE #20 HOLLOW HEX PLUG	2
28	065141	FILTER, HIGH PRESSURE	1
29	065244	STRAINER, POLY 50μ MESH, W/ CHECK VALVE	2
30	065848	BATTERY CABLE, NEGATIVE 2 AWG	1
31	066255	MANUAL TUBE	1
32	067279	CLAMP, LOOP VIB. DAMPENING 2" ID	2
33	069835	LIGHT, LED 1200 LUMEN 12 VDC (1.5 AMP)	4
34	069958	MANIFOLD, WITH FILTER STEERING AND PITCH	1
35	071536	TANK, 7 GALLON RETARDANT ASSEMBLY (BLACK)	1
36	075254	COVER REAR CENTER FOR	1
37	075422	GUARD, TANK FOR 7 GALLON TANKS	1

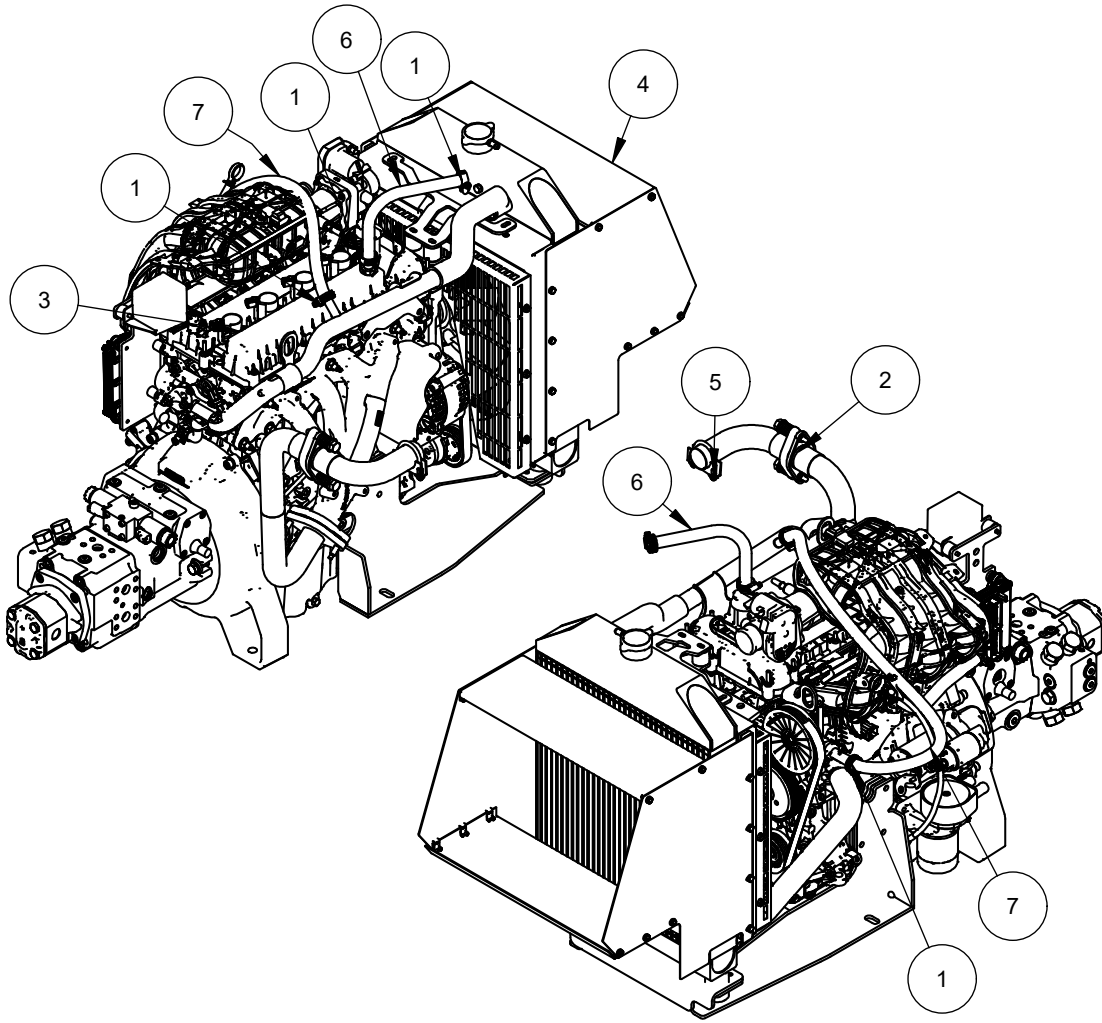
Assembly, Main Frame Parts List (078551) **Continued**

SECTION 1 **PARTS**

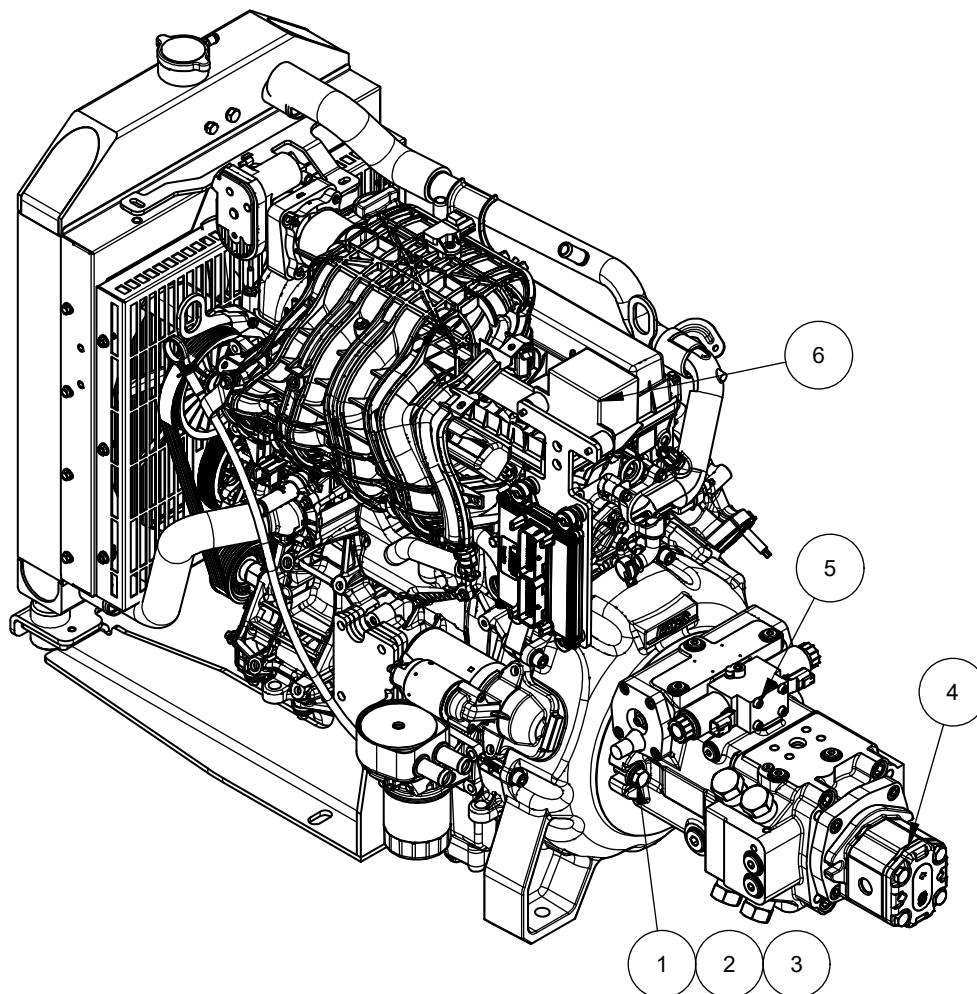
ITEM	PART NUMBER	DESCRIPTION	QTY
38	078552	WELDMENT, HDX705 MAIN FRAME FORD 2.5L ENGINE	1
39	078652	ASSEMBLY, DECK PLATE FOR HDX705 RIDING TROWEL	1
40	079023	ASSEMBLY, FUEL TANK HDX705 (18 GALLON)	1
41	079026	STEP, RH FOR HDX705	1
42	079027	STEP, LH HDX705	1
43	079028	ASSEMBLY, RH ROTOR FOR HDX705	1
44	079029	LH (SOM) ROTOR ASSEMBLY	1
45	080193	BATTERY CABLE, POSITIVE 2AWG FOR HDX705	1
46	081059	PLATE, COVER FRONT BOTTOM CENTER FOR HDX780X	1
47	081155	FUEL PUMP, F/ FORD ENGINE 2.5 L HDX705	1
48	081156	FILTER FUEL, FOR 2.5 FORDS ENGINE HDX705	1
49	081157	MANIFOLD, FUEL FOR 2.5 L FORD FOR HDX705	1

SECTION 1 PARTS

Engine Assembly (079000)



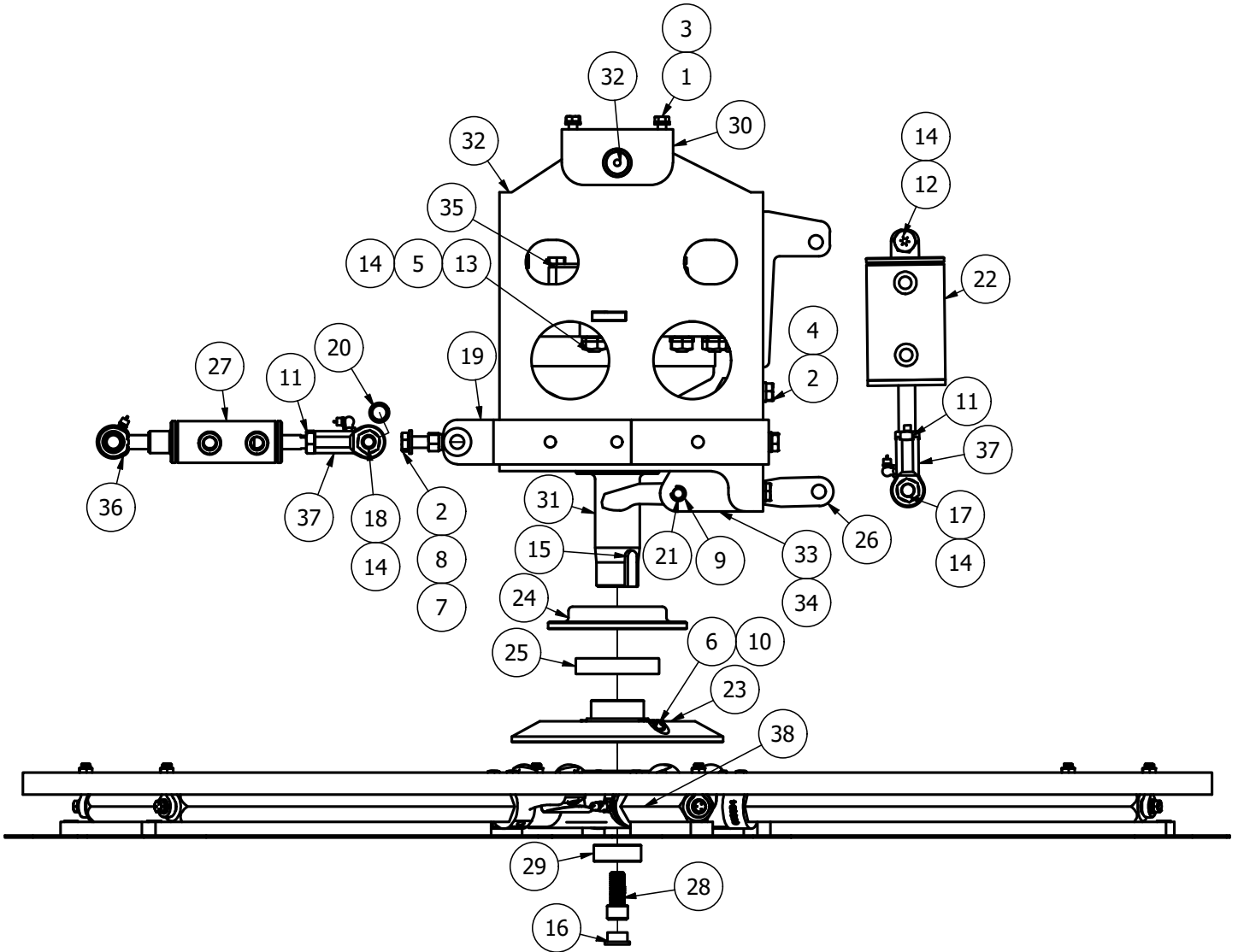
ITEM	PART NO.	DESCRIPTION	QTY
1	055060	CLAMP, HOSE 13/16" TO 1 1/4" X 1/2" WIDE STAINLESS STEEL SAE 12	4
2	078573	WELDMENT, EXHAUST MUFFLER FOR HDX705 FORD 2.5L ENGINE	1
3	078580	ASSEMBLY, FORD ENGINE AND PUMP F/ 2.5L 84HP GAS ENGINE F/ HDX705	1
4	079049	ASSEMBLY, RADIATOR SHROUD F/ HDX705 FORD 2.4L ENGINE	1
5	079107	MUFFLER CLAMP, 1 3/4" STAINLESS STEEL	1
6	081146- 14"	HOSE, CUT 14" LONG FROM VALVE COVER TO BREATHER INTAKE TO TUBE	1
7	081146-36"	HOSE, CUT 36" RAD COOLANT OUTLET PIPE TO ENG	1



ITEM	PART NO.	DESCRIPTION	QTY
1	010070	FASTENER, HHCS 1/2-13 X 1-3/4	2
2	010093	FASTENER, LW 1/2	2
3	011490	FASTENER, FW 1/2	2
4	065140	PUMP, AUXILIARY	1
5	079036	PUMP, HDX705	1
6	079045	ASSEMBLY, FORD 2.5L ENGINE F/ HDX705	1

SECTION 1 PARTS

Rotor Assembly - Left Hand (079029)



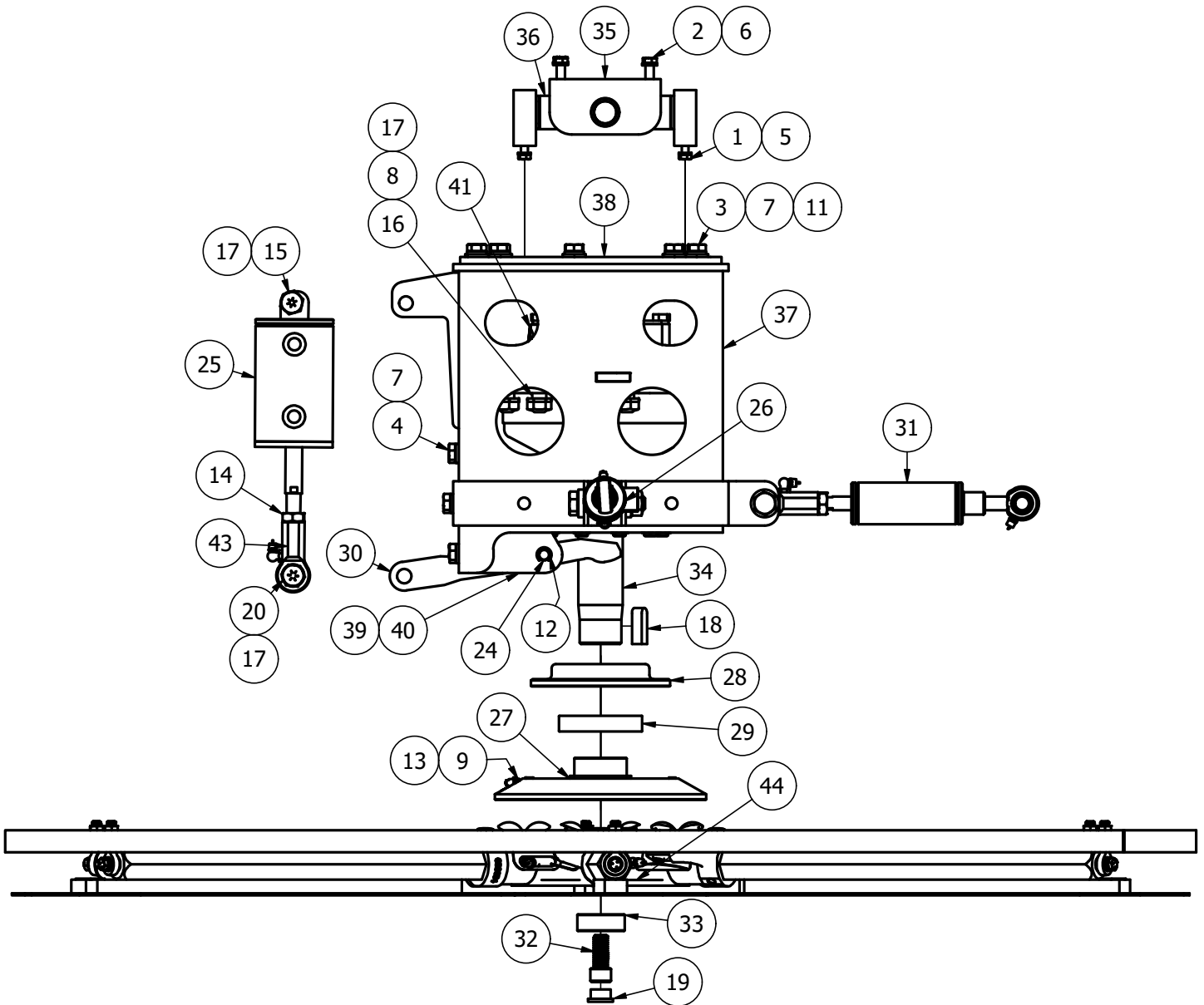
Rotor Assembly - Left Hand (079029) Parts List

SECTION 1 PARTS

ITEM	PART NUMBER	DESCRIPTION	QTY
1	010036	FASTENER, HHCS 3/8-16 X 1 GR 8	4
2	010069	FASTENER, HHCS 1/2-13 X 1-1/2 GRADE 8	7
3	010091	FASTENER, LW 3/8	4
4	010093	FASTENER, LW 1/2 GR8	6
5	010095	FASTENER, LW 5/8	10
6	010513	FITTING, 1/4-28 STR GREASE	1
7	011238	FASTENER, HEX NUT NYLOCK 1/2-13	1
8	011490	FASTENER, FW 1/2	1
9	015677	RING, Ø7/16 E-STYLE RETAINING	2
10	015692	CAP, Ø1/4 RED GREASE	1
11	020688	FASTENER, JAM HEX NUT 5/8-18 RH	2
12	027969	FASTENER, HHCS 5/8-18 X 2 GR 8	1
13	040319	FASTENER, HHCS 5/8-18x1-1/4	10
14	043269	FASTENER, NUT STOVER 5/8-18	13
15	046231	KEY, ROTOR SHAFT	1
16	046646	PLUG, 7/8 THREAD PROTECT CAP	1
17	047354	FASTENER, HHCS 5/8-18x2-1/4	1
18	048339	FASTENER, HHCS 5/8-18 x 3	1
19	048624	CHANNEL, CYLINDER ROD END CONNECTOR	1
20	048627	SPACER, STEERING CONNECTION	2
21	048628	PIN, YOKE ARM	1
22	048659	PITCH CYLINDER	1
23	049537	PLATE, PRESSURE 6 BOSS	1
24	049599	BEARING CAP	1
25	049697	BEARING F/ SPIDER ASSEMBLY	1
26	049698	PITCH YOKE ARM	1
27	050718	CYLINDER, STEERING F/R	1
28	064252	FASTENER, SHCS 5/8-11 X 1 1/2" LONG RH THREAD	1
29	064253	WASHER, RETAINING	1
30	064260	BEARING ASSEMBLY FOR WITH BRONZE BEARING	2
31	064287	SHAFT, ROTOR LH SOM	1
32	064730	RH HYDRAULIC MOTOR MNT WLDT	1
33	064742	BRACKET, LH YOKE MNT. FOR ROTOR ASSEMBLIES	1
34	064745	BRACKET, RH YOKE MNT. FOR ROTOR ASSEMBLIES	1
35	065137	MOTOR, HYDRAULIC	1
36	065446	ROD, END MALE 5/8	1
37	066188	5/8" FEMALE ROD END	2
38	079268	ASSEMBLY, SPIDER LH	1

SECTION 1 PARTS

Rotor Assembly - Right Hand (079028)



Rotor Assembly - Right Hand (079028) Parts List

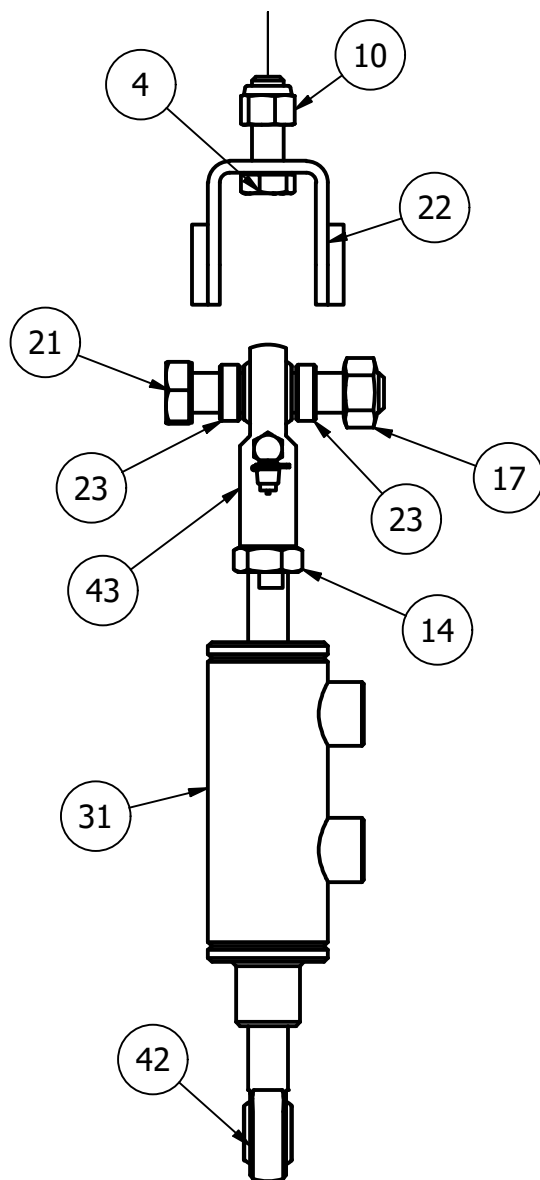
SECTION 1 PARTS

ITEM	PART NUMBER	DESCRIPTION	QTY
1	010020	FASTENER, HHCS 5/16-18 X 1	4
2	010036	FASTENER, HHCS 3/8-16 X 1	4
3	010068	FASTENER, HHCS 1/2-13 X 1-1/4	12
4	010069	FASTENER, HHCS 1/2-13 X 1-1/2	8
5	010090	FASTENER, LW 5/16	4
6	010091	FASTENER, LW 3/8	4
7	010093	FASTENER, LW 1/2	18
8	010095	FASTENER, LW 5/8	10
9	010513	FITTING, 1/4-28 STR GREASE	1
10	011238	FASTENER, NUT HEX NYLOCK 1/2-13	2
11	011490	FASTENER, FW 1/2	12
12	015677	RING, Ø7/16 E-STYLE RETAINING	2
13	015692	CAP, Ø1/4 RED GREASE	1
14	020688	FASTENER, JAM HEX NUT 5/8-18 RH	3
15	027969	FASTENER, HHCS 5/8-18 X 2	1
16	040319	FASTENER, HHCS 5/8-18x1-1/4	10
17	043269	FASTENER, HEX NUT STOVER 5/8-18	14
18	046231	KEY, ROTOR SHAFT	1
19	046646	PLUG, 7/8 THREAD PROTECT CAP	1
20	047354	FASTENER, HHCS 5/8-18x2-1/4	1
21	048339	FASTENER, HHCS 5/8-18 x 3	2
22	048624	CHANNEL, CYLINDER ROD END CONNECTOR	2
23	048627	SPACER, STEERING CONNECTION	4
24	048628	PIN, YOKE ARM	1
25	048659	PITCH CYLINDER	1
26	048661	CYLINDER, STEERING L/R	1
27	049537	PLATE, PRESSURE 6 BOSS	1
28	049599	BEARING CAP	1
29	049697	BEARING SPIDER ASSEMBLY	1
30	049698	PITCH YOKE ARM	1

Note: Parts List Continued on page 29

SECTION 1 PARTS

Rotor Assembly - Right Hand (079028) Continued



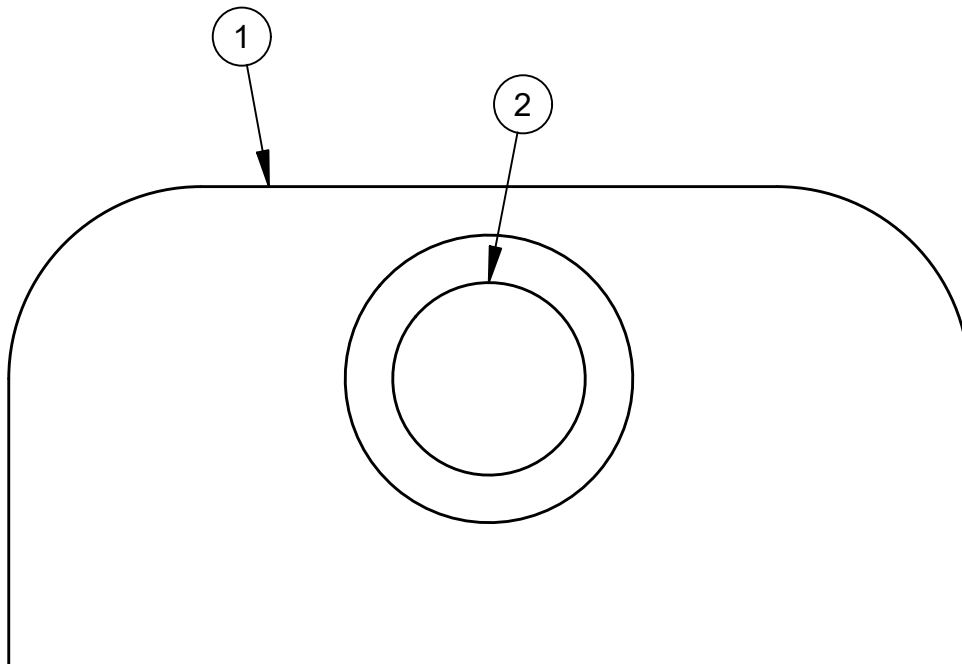
Rotor Assembly - Right Hand (079028) Parts List Continued

SECTION 1 PARTS

ITEM	PART NUMBER	DESCRIPTION	QTY
31	050718	CYLINDER, STEERING F/R	1
32	064251	FASTENER, SHCS 5/8-11 X 1 1/2" LONG LH THREAD	1
33	064253	WASHER, RETAINING	1
34	064256	SHAFT, ROTOR RH (SOM)	1
35	064260	BEARING ASSEMBLY WITH BRONZE BEARING	4
36	064280	CROSSHEAD WELDMENT, L,R & F&R	1
37	064740	MOUNT, LH ROTOR MOTOR MNT	1
38	064741	PLATE, TOP FOR LH HYD. MTR. MNT.	1
39	064742	BRACKET, LH YOKE MNT. FOR ROTOR ASSEMBLIES	1
40	064745	BRACKET, RH YOKE MNT. FOR ROTOR ASSEMBLIES	1
41	065137	MOTOR, HYDRAULIC PISTON	1
42	065446	ROD, END MALE 5/8	2
43	066188	5/8" FEMALE ROD END	3
44	079269	ASSEMBLY, SPIDER RH	1

SECTION 1 PARTS

Bearing Block Assembly (064260)

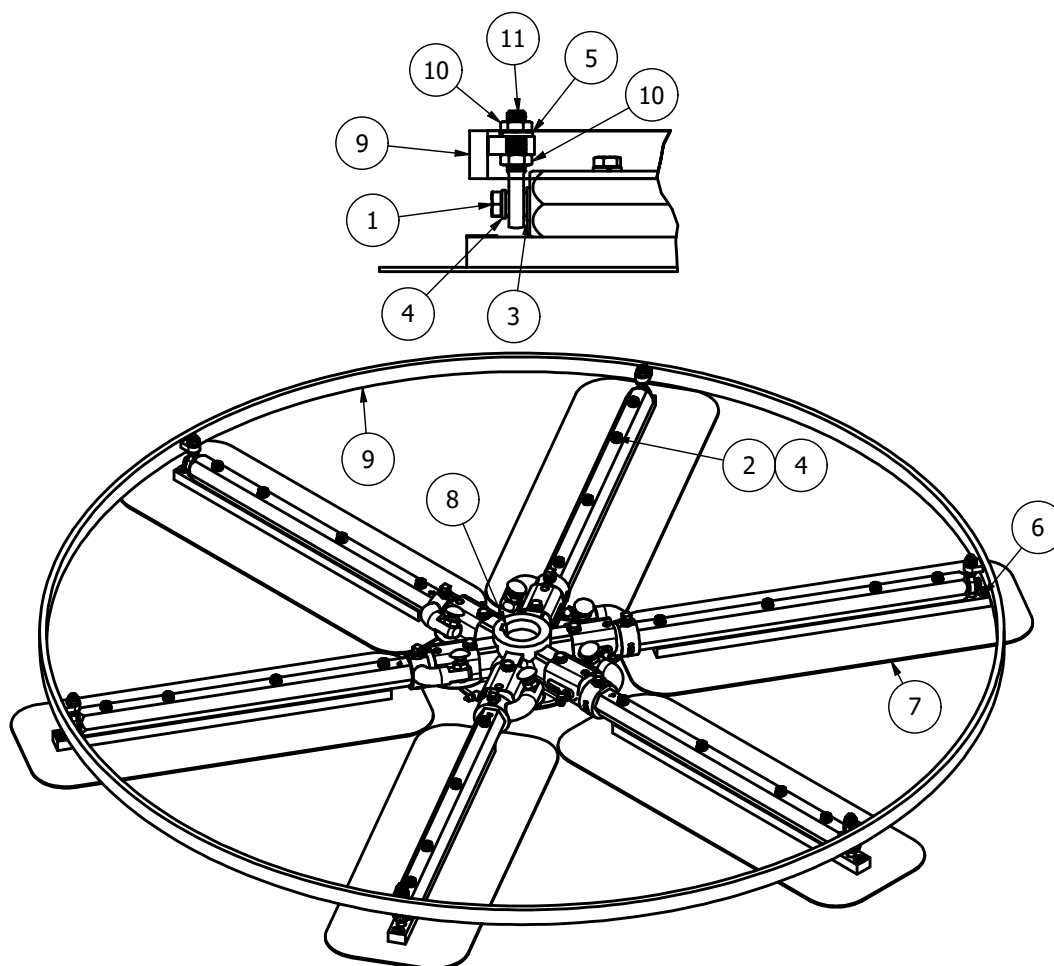


ITEM	PART NO.	DESCRIPTION	QTY
1	064259	BLOCK, FOR BEARING BLOCK	1
2	068157	FLANGED BEARING, 1" ID X 1 LONG OIL IMPREGNATED BRONZE	1

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SECTION 1 PARTS

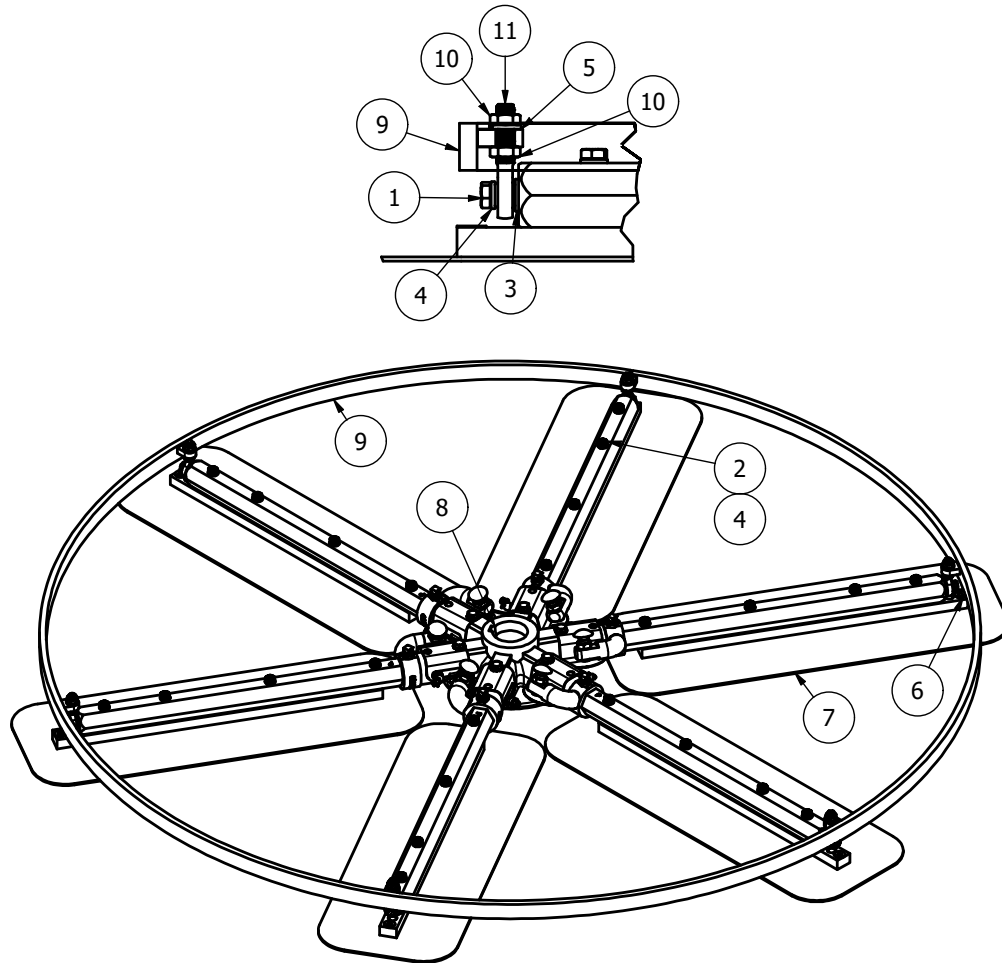
Lower Spider Assembly - Left Hand (079268)



ITEM	PART NO	DESCRIPTION	QTY
1	010020	FASTENER, HHCS 5/16-18 X 1	6
2	010024	FASTENER, HHCS 5/16-18 X 2 GR8	24
3	010082	FASTENER, FW 5/16	6
4	010090	FASTENER, LW 5/16	30
5	010091	FASTENER, LW 3/8	6
6	015694	PLUG W-1 PLASTIC TAPERED	6
7	047973G	BLADE, 8 X 23 FLAT FINISH	6
8	049538	SPIDER ASSEMBLY LH SOM	1
9	069565	STABILIZER RING, ROTOR SPIDER ASSEM. WITH HEIM JOINTS	1
10	069566	FASTENER, THIN HEX NUT 3/8-24	12
11	069567	BALL JOINT ROD END MALE, WITH OVERSIZED SHANK 5/16" I.D. 3/8-24 THREAD SHANK	6

Lower Spider Assembly - Right Hand (079269)

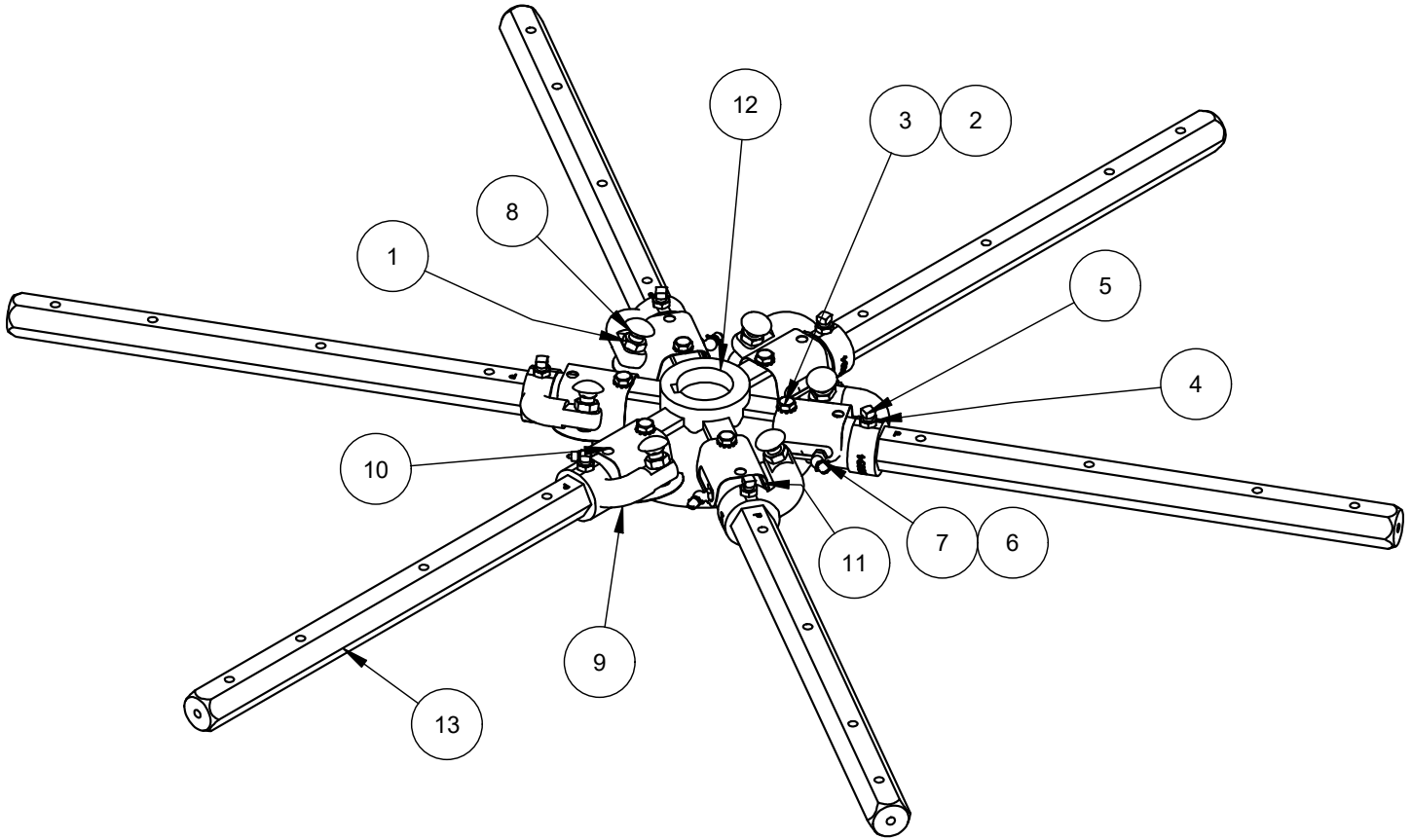
SECTION 1 PARTS



ITEM	PART NO	DESCRIPTION	QTY
1	010020	FASTENER, HHCS 5/16-18 X 1	6
2	010024	FASTENER, HHCS 5/16-18 X 2 GR8	24
3	010082	FASTENER, FW 5/16	6
4	010090	FASTENER, LW 5/16	30
5	010091	FASTENER, LW 3/8	6
6	015694	PLUG W-1 PLASTIC TAPERED	6
7	047973G	BLADE, 8 X 23 FLAT FINISH	6
8	049539	SPIDER ASSEMBLY, RH	1
9	069565	STABILIZER RING, ROTOR SPIDER ASSEM. WITH HEIM JOINTS	1
10	069566	FASTENER, THIN HEX NUT 3/8-24	12
11	069567	BALL JOINT ROD END MALE, WITH OVERSIZED SHANK 5/16" I.D. 3/8-24 THREAD SHANK	6

SECTION 1 PARTS

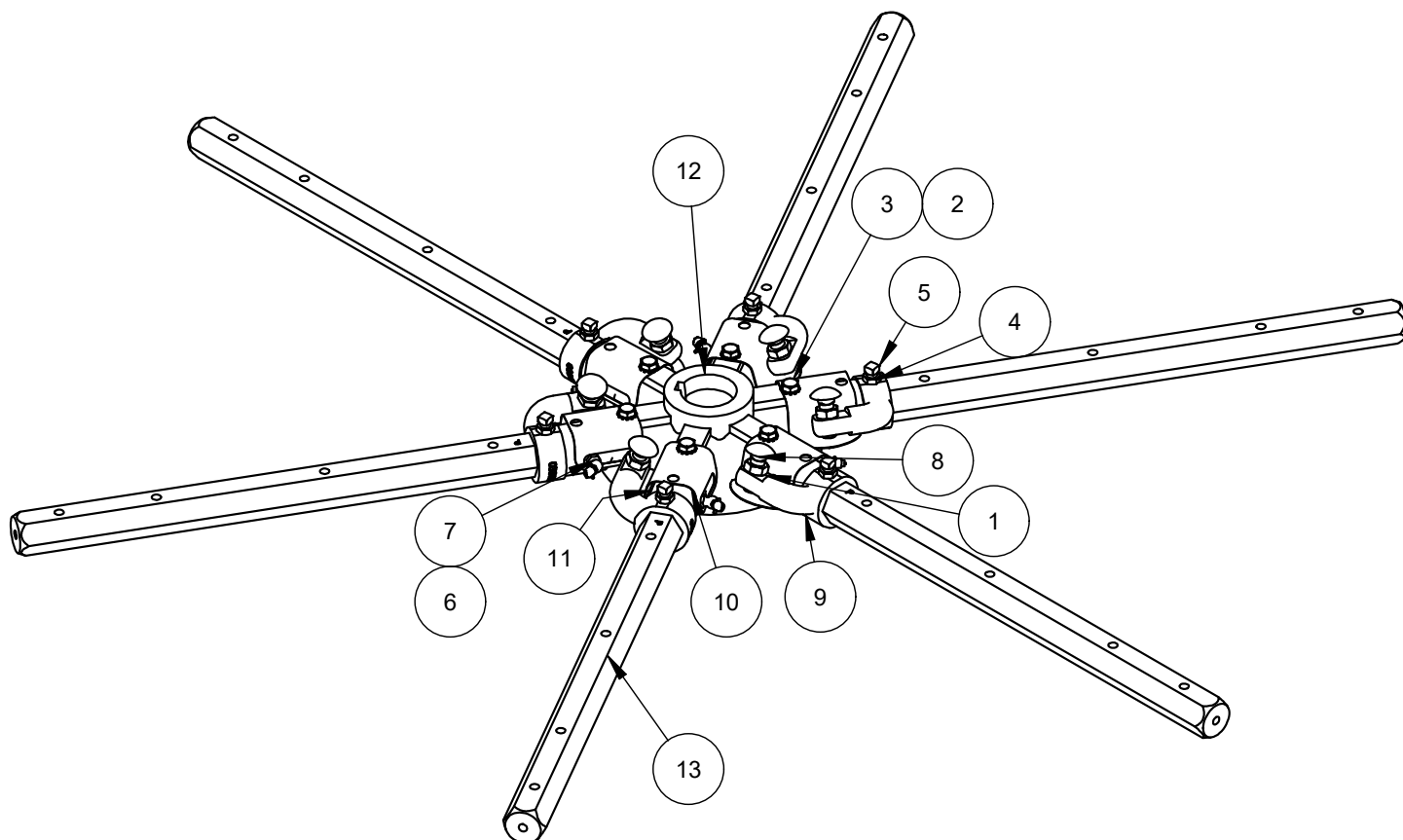
Spider Assembly - Left Hand (049538)



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	050963	Plug, Hex Socket Head 1/8" NPT	6
12	064198	Boss, Spider, 6-Blade, Universal	1
13	069916	Trowel Arm, for 6-Boss Spider "G"	6

Spider Assembly - Right Hand (049539)

SECTION 1 PARTS

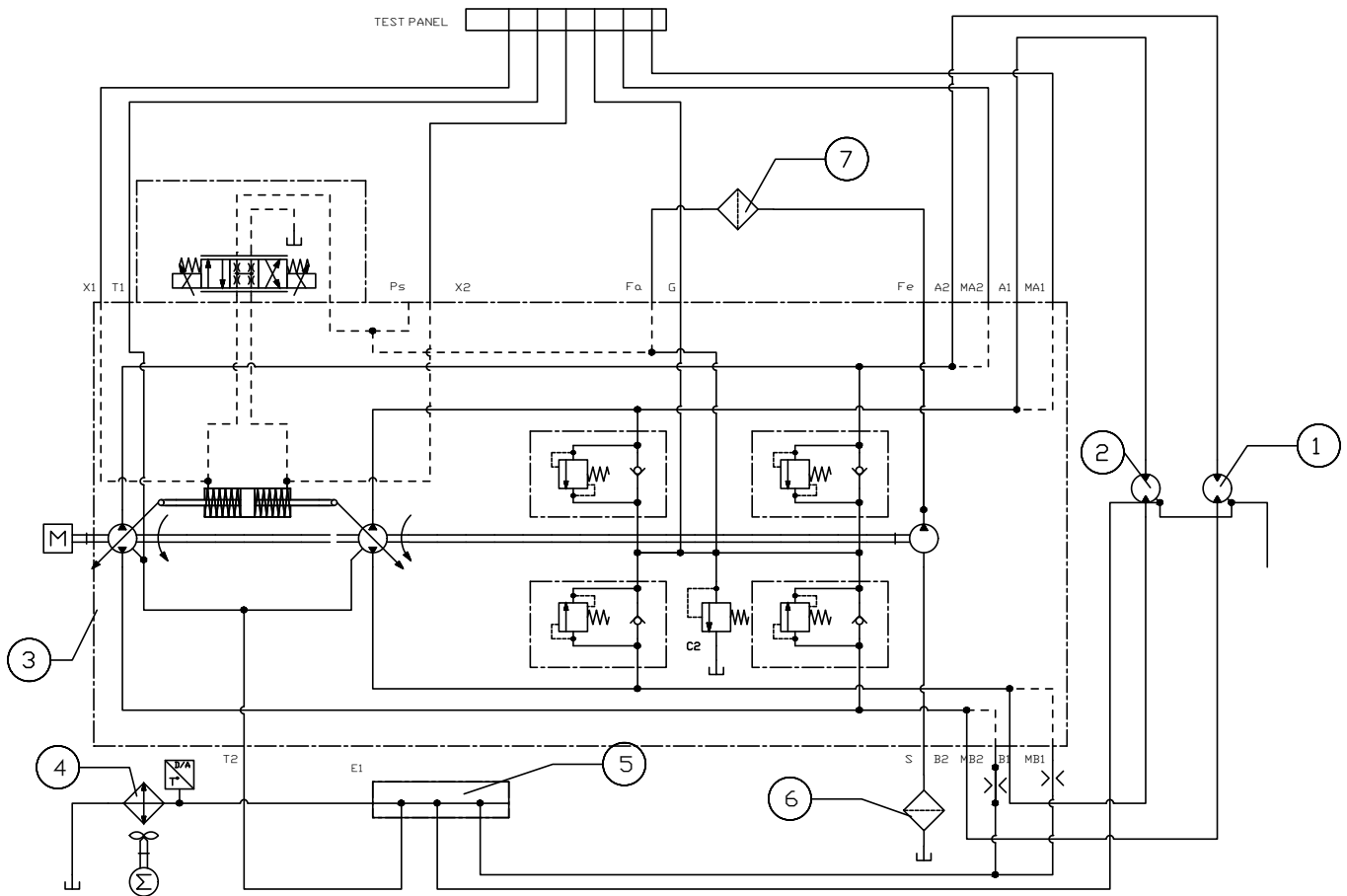


ITEM	PART #	DESCRIPTION	QTY
1	010050	Fastener, Nut, Hex, 1/2"-13	6
2	015682	Fastener, External Tooth, 3/8"	6
3	015683	Fastener, Bolt, Hex Head, 3/8"-16 x 7/8"	6
4	015684	Fastener, Nut, Hex, 3/8"-16	6
5	015686	Fastener, Bolt, SQHSS, 3/8"-16 x 1"	6
6	015692	Cap, Grease, 1/4", Plastic, Red	6
7	024755	Fitting, 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	050963	Plug, Hex Socket Head 1/8" NPT	6
12	064198	Boss, Spider, 6-Blade, Universal	1
13	069916	Trowel Arm, for 6-Boss Spider "G"	6

SECTION 1 PARTS

Hydraulic Schematic

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>

The diagram illustrates a hydraulic pitch control system. On the left, a pump (represented by a circle with a triangle) is driven by a motor (represented by a square with an 'M'). The pump's output line leads to a 4/3-way directional control valve, which is actuated by 'LEFT JOYSTICK PRESSURE' and 'RIGHT JOYSTICK PRESSURE'. This valve directs fluid to two 3/2-way check valves, labeled 'LJSP' and 'RJSP'. These check valves lead to two 4/3-way directional control valves, labeled 'RPA' and 'LPA', which are actuated by 'RIGHT PITCH' and 'LEFT PITCH' respectively. These valves control two 3/2-way check valves, labeled 'RPB' and 'LPB'. The fluid then passes through two 3/2-way check valves, labeled 'TSTP' and 'CD', before reaching a 'TANK'. A line labeled 'TO MOTOR CASE' branches off from the main line before the 'TANK'.

SECTION 1 PARTS

Hydraulic System - Components

HDX705 COMPONENT KIT, 078633		
DESCRIPTION	Qty	AEC#
ANTI CHATTER DUAL PO CHECK VALVE ASSY	1	049088
FITTING, F6400-4-4-0	2	045928
Motor, Piston	2	065137
PITCH CYLINDER	2	048659
L/R STEERING CYLINDER	1	050718
F/R STEERING CYLINDER	1	048661
RH DUAL AXIS JOYSTICK	1	048302
LH SINGLE AXIS JOYSTICK	1	048303

HDX RIDER COMPONENT KIT, 070308		
DESCRIPTION	QTY	AEC#
Y-STRAINER	1	046472
FOOT PEDAL ELECTRONIC	1	063341
CONTROLLER, BOSH REXROTH	1	065139
PUMP, AUXILIARY	1	065140
FILTER, HIGH PRESSURE	1	065141
4 SWITCH BLOCK KIT	1	065143
HEADER, MANIFOLD	1	065144
MURPHY CONTROLLER, PV380 VER2	1	066227
COOLER, HYDRAULIC OIL (BRUSHLESS FAN)	1	067415
MANIFOLD, WITH FILTER STEERING AND PITCH	1	069958

Hydraulic System - Hose Kit (078631)

SECTION 1 PARTS

HOSE NUMBER	QTY	UNIT	DESCRIPTION
HS-705-2	1	EA	HD760 Hose Assy; 35 IN C.L.
HS-705-1	1	EA	HD760 Hose Assy; 27 IN C.L.[10.19.17 REV]
HS-705-3	1	EA	HD760 Hose Assy; 20 IN C.L.
HS-705-4	1	EA	HD760 Hose Assy; 19 IN C.L.
HS-705-6	1	EA	HD760 Hose Assy; 26 IN C.L.
HS-705-8	1	EA	HD760 Hose Assy; 40 IN C.L.
HS-705-9	1	EA	HD760 Hose Assy; 58 IN C.L.
HS-705-5	1	EA	HD760 Hose Assy; 25 IN C.L.
HS-705-7	1	EA	HD760 Hose Assy;76IN C.L.
HS-705-10	1	EA	HD760 Hose Assy; 50 IN C.L.
HS-705-11	1	EA	HD760 Hose Assy; 50 IN C.L.
HS-705-12	1	EA	HD760 Hose Assy; 80 IN C.L. [3.9] ST/90
HS-705-13	1	EA	HD760 Hose Assy; 80 IN C.L. [3.9] ST/90
HS-705-14	1	EA	HD760 Hose Assy; 54 IN C.L. [12.15]
HS-705-15	1	EA	HD760 Hose Assy; 54 IN C.L. [12.15]
HS-705-16	1	EA	HD760 Hose Assy; 79 IN C.L.
HS-705-17	1	EA	HD760 Hose Assy; 79 IN C.L.
HS-705-18	1	EA	HD760 Hose Assy; 31 IN C.L. [3.9] ST/90
HS-705-19	1	EA	HD760 Hose Assy; 31 IN C.L. [3.9] ST/90
HS-705-20	1	EA	HD760 Hose Assy; 32 IN C.L.
HS-705-21	1	EA	HD760 Hose Assy; 19 IN C.L. [12.15]
HS-705-22	3	EA	HD760 Hose Assy; 46 IN C.L.
HS-705-23	1	EA	HD760 Hose Assy; 30 IN C.L. [3.9] ST/90
HS-705-24	1	EA	HD760 Hose Assy;24 IN C.L.
HS-705-25	1	EA	HD760 Hose Assy; 40 IN C.L. [6.8.17]
HS-705-26	1	EA	HD760 Hose Assy; 66 IN C.L. [6.8] ST/ST
HS-705-27	1	EA	HD760 Hose Assy; 42 IN C.L. [ST/ST] 6.8
HS-705-28	1	EA	HD760 Hose Assy; 72 IN C.L. [ST/ST] 6.8
HS-705-29	1	EA	HD760 Hose Assy; 36 IN C.L.
HS-705-30	1	EA	HD760 Hose Assy 15 IN C.L.[12.15]
HS-705-31	1	EA	HD760 Hose Assy 13" ST/90 [3.9]
HS-705-32	1	EA	HD760 Hose Assy 15" ST/90 [3.9]
HS-705-33	1	EA	HD760 Hose Assy59" ST/90
SMS-E1/4-U1/4-508MM-B	4	EA	Test Hose Assembly
SMS-E1/4-U1/4-864MM-B	2	EA	Test Hose Assembly [686MM]
70501	1	EA	31" CL Anti Chatter Hose #1 HP205/615
70499	1	EA	36" CL Anti Chatter Hose #1 - 780/615
70497	1	EA	9" CL Anti Chatter Hose #2 615
70496	1	EA	19" CL Anti Chatter Hose #1_215

SECTION 1 PARTS

Hydraulic System - Fitting Kit (078632)

QTY	UNIT	ITEM ID	DESCRIPTION
[FRAME]			
2	EA	F6400-6-8-0	HYDRAULIC FITTING
1	EA	4/2/5406	HYDRAULIC FITTING
1	EA	4/4/6507	HYDRAULIC FITTING
1	EA	4/2/5406	HYDRAULIC FITTING
1	EA	F6400-8-8-0	HYDRAULIC FITTING
1	EA	4/4/2503	45 DEG ML Tube X ML Pipe Ftg
1	EA	2/2/5503	45 DEG ML PIPE X FEM PIPE FITTING
1	EA	6505-20-20	STRAIGHT ML PIPE X 37 DEG FEM SWIVEL
1	EA	F6802-16-16 NWO	45 DEG STRAIGHT THREAD ELBOW FITTING
1	EA	6408-16-0 SOLID	HEXAGON HEAD O RING BOSS PLUG
2	EA	6409-20-0	HEXAGON SOCKET O RING BOSS PLUG
3	EA	7574051	#12 SAE PLUG
1	EA	SLW-CL-12-S-WR	SPEC SIGHT GUAGE W/WHITE REFLECTOR
1	EA	GV-5	VACUUM GUAGE
2	EA	F2403-8-8-0	LH LARGE HEX UNION
1	EA	F6400-8-12-0	STRAIGHT THREAD CONNECTOR FITTING
1	EA	6801-LL-20-20	FITTING
1	EA	F2404-16-20-0	FITTING
1	EA	F6602-6-6-6-0	FITTING
[PITCH/STG CYL]			
10	EA	F6400-4-6-0	STRAIGHT THREAD CONNECTOR FITTING
[JOYSTICK RH/LH]			
8	EA	F6400-4-4-0	STRAIGHT THREAD CONNECTOR FITTING
2	EA	F6400-6-4-0	STRAIGHT THREAD CONNECTOR FITTING
[COOLER]			
2	EA	6410-20-16-0	STRAIGHT ML O RING X FEM O RING FITTING
1	EA	6402-16-16-0	STRAIGHT ML O RING X 37 DEG FEM SWIVEL
1	EA	F6400-16-16-0	STRAIGHT THREAD CONNECTOR FITTING
1	EA	F2403-16-16-0	LH LARGE HEX UNION
[MAIN PUMP]			
4	EA	F6801-10-12 NWO	90 DEG STRAIGHT THREAD ELBOW FITTING
1	EA	F6802-10-12 NWO	45 DEG STRAIGHT THREAD ELBOW FITTING
1	EA	F6400-16-16-0	45 DEG STRAIGHT THREAD ELBOW FITTING
1	EA	F6802-8-8- NWO	45 DEG STRAIGHT THREAD ELBOW FITTING
5	EA	F6400-4-4-0	HYDRAULIC FITTING
1	EA	F6400-8-8-0	HYDRAULIC FITTING
1	EA	F6400-6-12-0	HYDRAULIC FITTING
1	EA	2406-6-4-0	HYDRAULIC FITTING
1	EA	F6400-4-6-0	HYDRAULIC FITTING
3	EA	F6602-4-4-40	HYDRAULIC FITTING

Hydraulic System - Fitting Kit (078632)

SECTION 2 DECALS

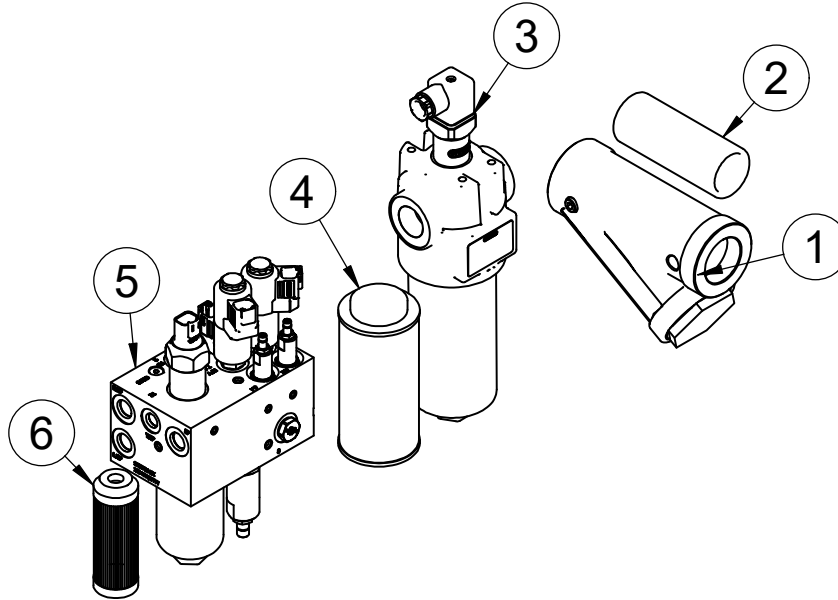
QTY	UNIT	ITEM ID	DESCRIPTION
2	EA	CFJ4-.055	SS SAE 37DEG FLARE [.055 ORIFICE]
5	EA	4/4/9027	FEM BSPP X FEM JIC SWIVEL
[AUXILIARY PUMP]			
1	EA	F6400-8-10-0	STRAIGHT THREAD CONNECTOR FITTING
1	EA	F6400-6-8-0	FITTING
[STEERING MANIFOLD]			
1	EA	F6400-6-6-0	HYDRAULIC FITTING
1	EA	F6801-6-6-NW0	90 DEG STRAIGHT THREAD ELBOW FITTING
7	EA	F6400-4-6-0	STRAIGHT THREAD CONNECTOR FITTING
1	EA	F6400-4-4-0	FITTING
1	EA	F6801-6-6-NW0	FITTING
[VENT TANK]			
1	EA	SPB-S-1-10-N04	PLASTIC FILLER BREATHER CAP
1	EA	F6400-8-8-0	STRAIGHT THREAD CONNECTOR FITTING
1	EA	6409-8-0	#8 HEXAGON SOCKET O RING BOSS PLUG
[RETURN MANIFOLD]			
1	EA	F6801-16-16-NW0	90 DEG STRAIGHT THREAD ELBOW FITTING
1	EA	F6801-8-8-NW0	90 DEG STRAIGHT THREAD ELBOW FITTING
1	EA	F6801-4-6-NW0	90 DEG STRAIGHT THREAD ELBOW FITTING
1	EA	6400-10-12-0 ALT F6400-10-12	STRAIGHT ML TUBE X ML O RING FITTING
1	EA	6409-16-0	HEXAGON SOCKET O RING BOSS PLUG
1	EA	F6602-4-4-4-0	SWIVEL RUN TEE FITTING
6	EA	2700-4-4-LN	STRAIGHT ML TUBE X BULKHEAD FITTING
6	EA	SMK20-JIC1/4-VK	TEST POINT / 20 SERIES
[ROTOR MOTOR RH/LH]			
1	EA	F6400-6-8-0	STRAIGHT THREAD CONNECTOR FITTING
3	EA	F6400-8-8-0	STRAIGHT THREAD CONNECTOR FITTING
1	EA	F6400-8-12-0	HYDRAULIC FITTING
4	EA	F6802-10-12-0	HYDRAULIC FITTING
1	EA	F6801-8-12-0	HYDRAULIC FITTING
[Antichatter Valve]			
2	EA	F6602-4-4-4-0	HYDRAULIC FITTING
1	EA	cfj4-0-ss	orifice

SECTION 2 DECALS

Service Parts, Hydraulic Filters

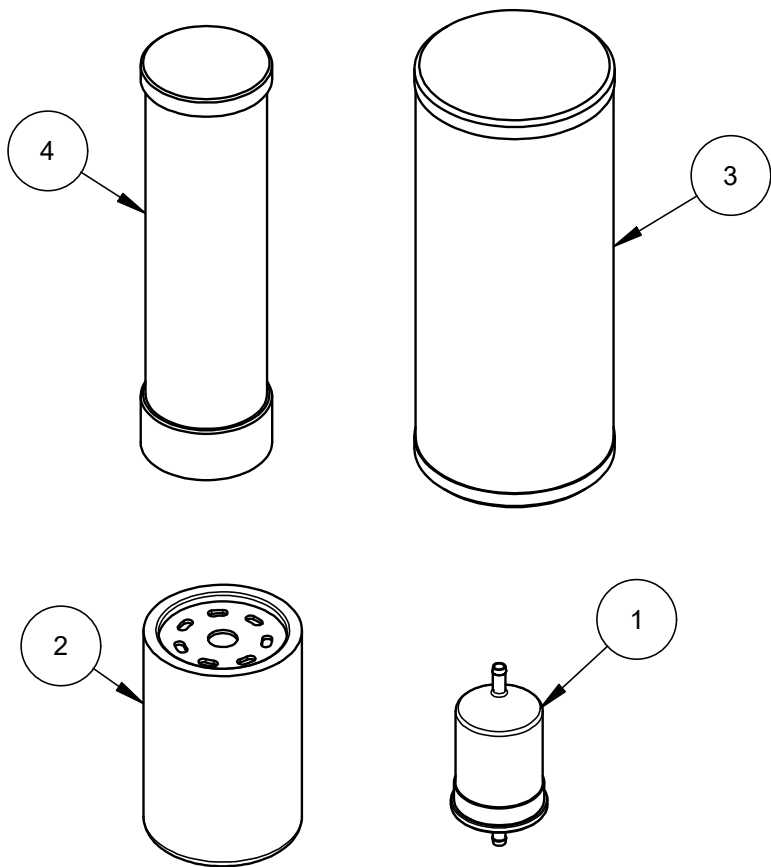
Note: Images for reference only

Hydraulic Filters



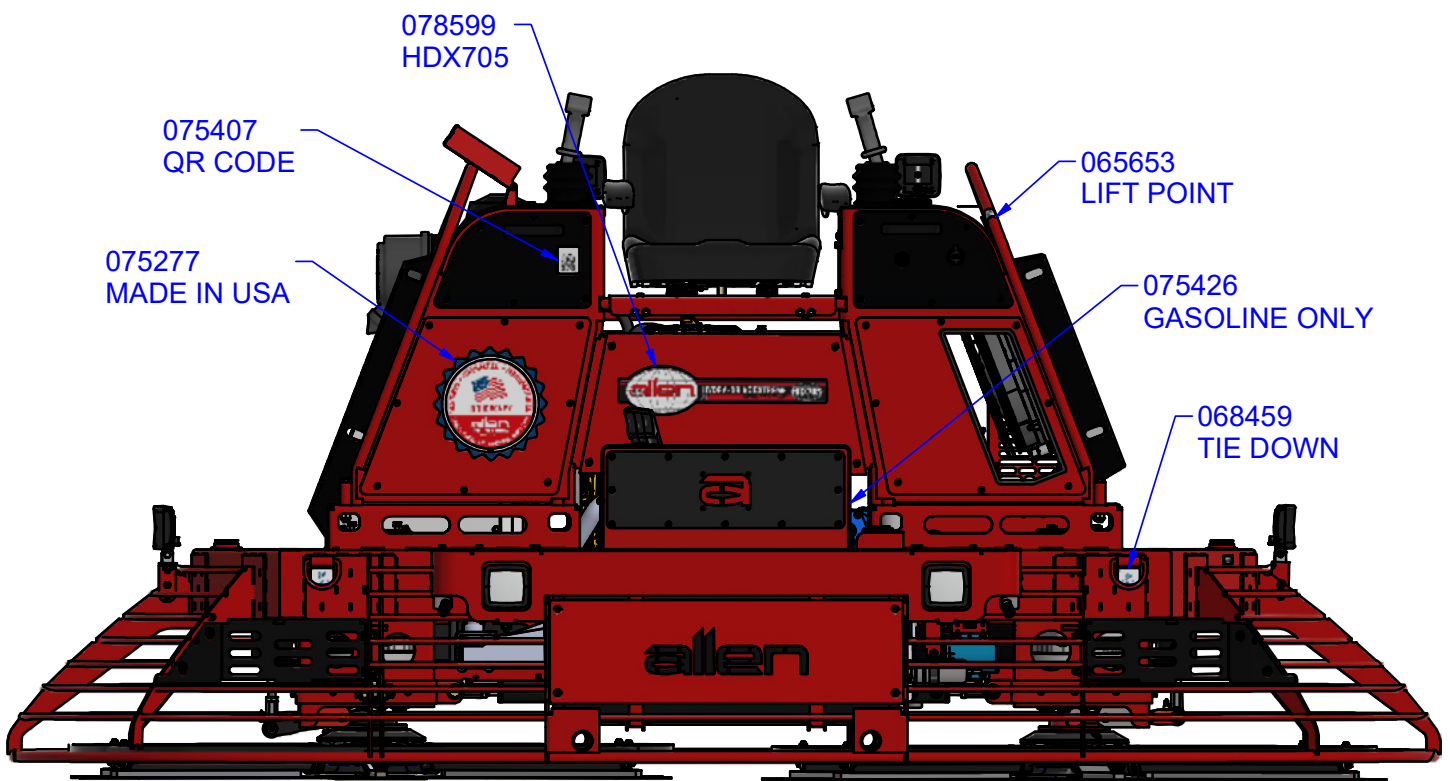
ITEM	PART NO.	DESCRIPTION	QTY
1	046472	Y-STRAINER	1
2	046473	FILTER, REPLACEMENT F/ Y-STRAINER	1
3	065141	HIGH PRESSURE CHARGE FILTER	1
4	043418	FILTER, REPLACEMENT F/ CHARGE FILTER	1
5	069958	MANIFOLD, WITH FILTER STEERING AND PITCH	1
6	070522	FILTER, REPLACEMENT F/ STEERING/PITCH MANIFOLD	1

Note: Images for reference only



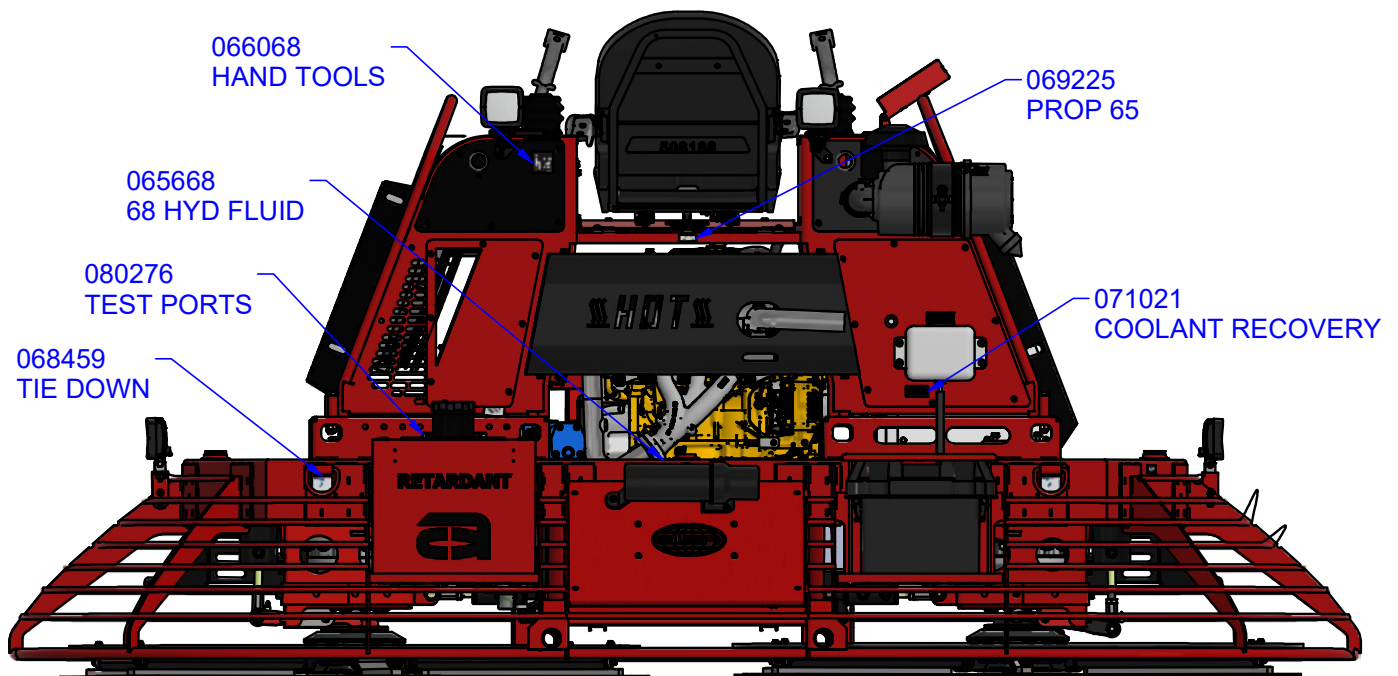
ITEM	PART NO.	DESCRIPTION	QTY
1	081156	FILTER FUEL, FOR 2.5L FORD ENGINE	1
2	081162	OIL FILTER, FOR 2.5L FORD	1
3	081163	FILTER, ELEMENT AIR PRIMARY F/ 2.5L FORD	1
4	081164	FILTER, ELEMENT AIR SAFETY F/ 2.5L FORD	1

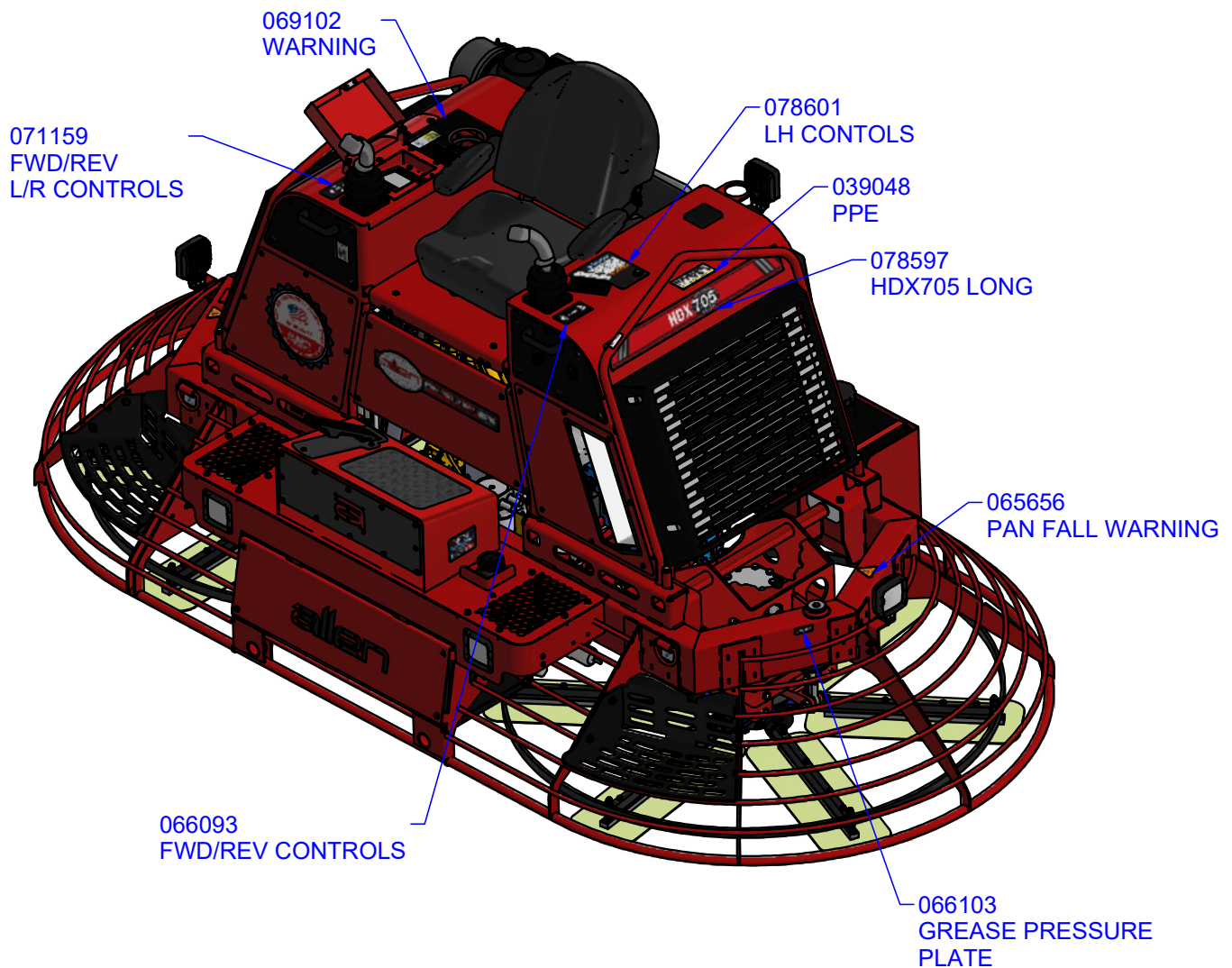
SECTION 2: DECALS



SECTION 2 DECALS

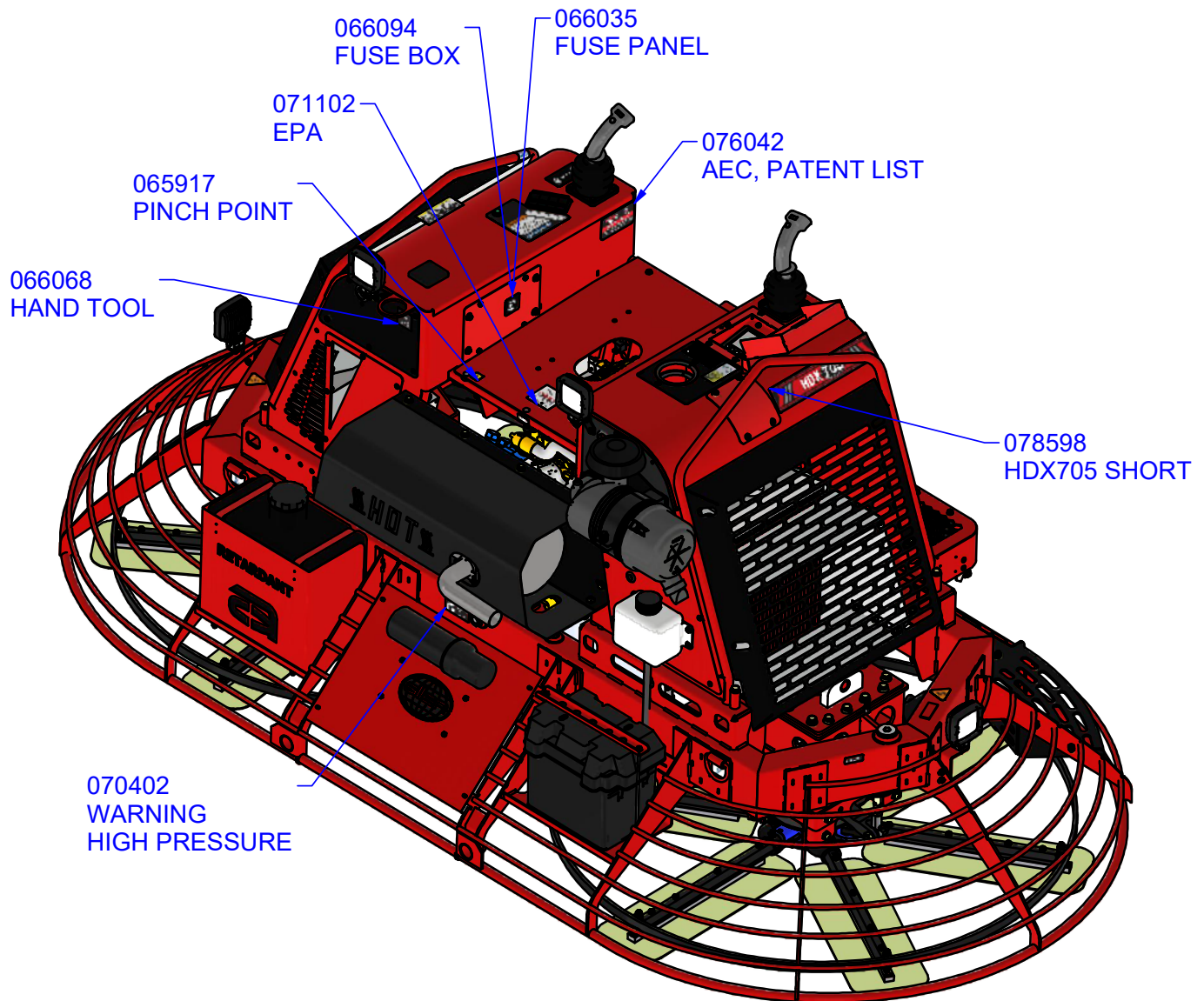
Decals - (Kit #: 078596)





SECTION 2 DECALS

Decals - (Kit #: 078596)



Revision Detail

MANUAL REVISION DETAIL

REVISION #	REVISION DATE	REVISION REFERENCE #	REVISION BY
-	05/25	Initial Release	MK
A	10/25	Added Hyd, ENG Filter parts pages	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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