

RIDING TROWEL

MP245



PARTS & DECALS MANUAL

Manual Part #: 075766P | Revision: A
Language: English | Original Instructions



NOTICE

This manual, or a copy of it, must be kept with the machine at all times.
There is a manual storage container located on the machine for your convenience.

RIDING TROWEL

PARTS & DECALS MANUAL

This manual covers the Riding Trowel model listed below:

<u>Part No.</u>	<u>Description</u>
073490	RIDER, MP245X

For more information regarding the following, please see “MP245X Safety & Operations Manual”

- Warranty information
- Dealer information
- How to identify the model/serial numbers on the machine
- Technical specifications

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SECTION 1: PARTS

SECTION 1 PARTS

Factory Service Information

This section contains illustrated drawings and parts list for help in identifying and/or ordering replacement parts for your machine. Follow the instructions in the Replacement Parts Procedure section of this manual when ordering replacement parts to insure prompt and accurate delivery.

The Right Hand (RH) and/or Left Hand (LH) orientations are defined from the operator's point of view while sitting on the machine (SOM).

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.

We recommend AEC quality replacement parts, these are 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 this manual. Please order replacement parts by the appropriate part number, not the key 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 insure prompt and accurate delivery:

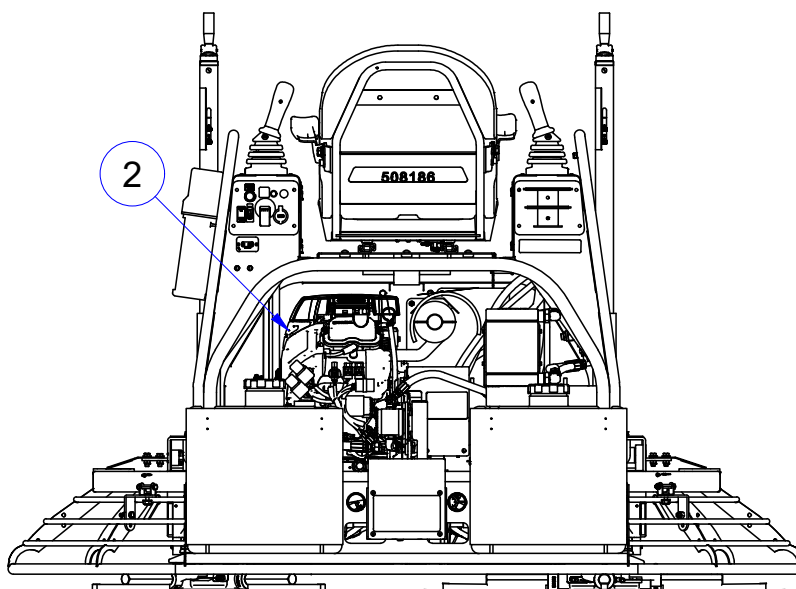
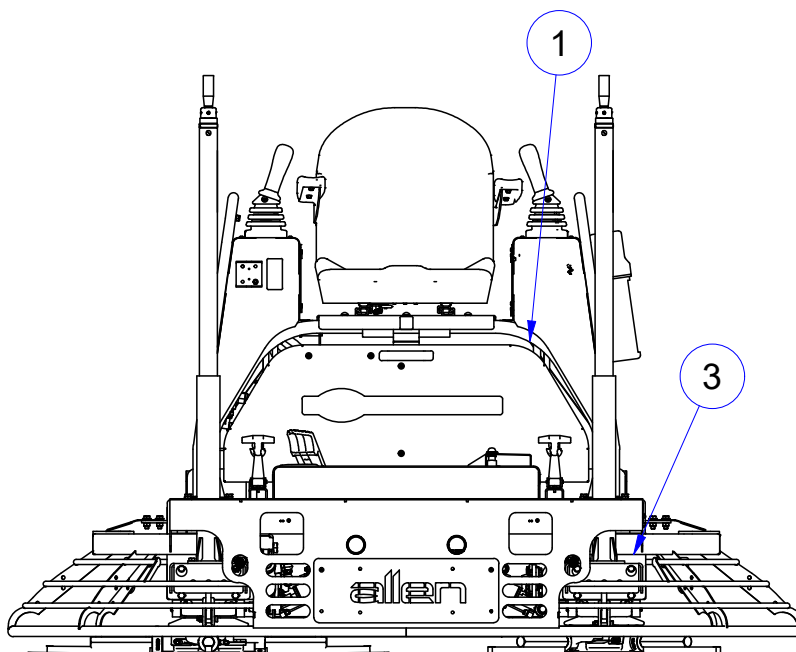
1. All orders for service parts must include the serial number for the machine. Shipment will be delayed if this information is not available.
2. Include the correct description and part number from Parts Section 1.
3. Specify exact shipping instructions, including the preferred routing and complete 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 to you.



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 Arrangement

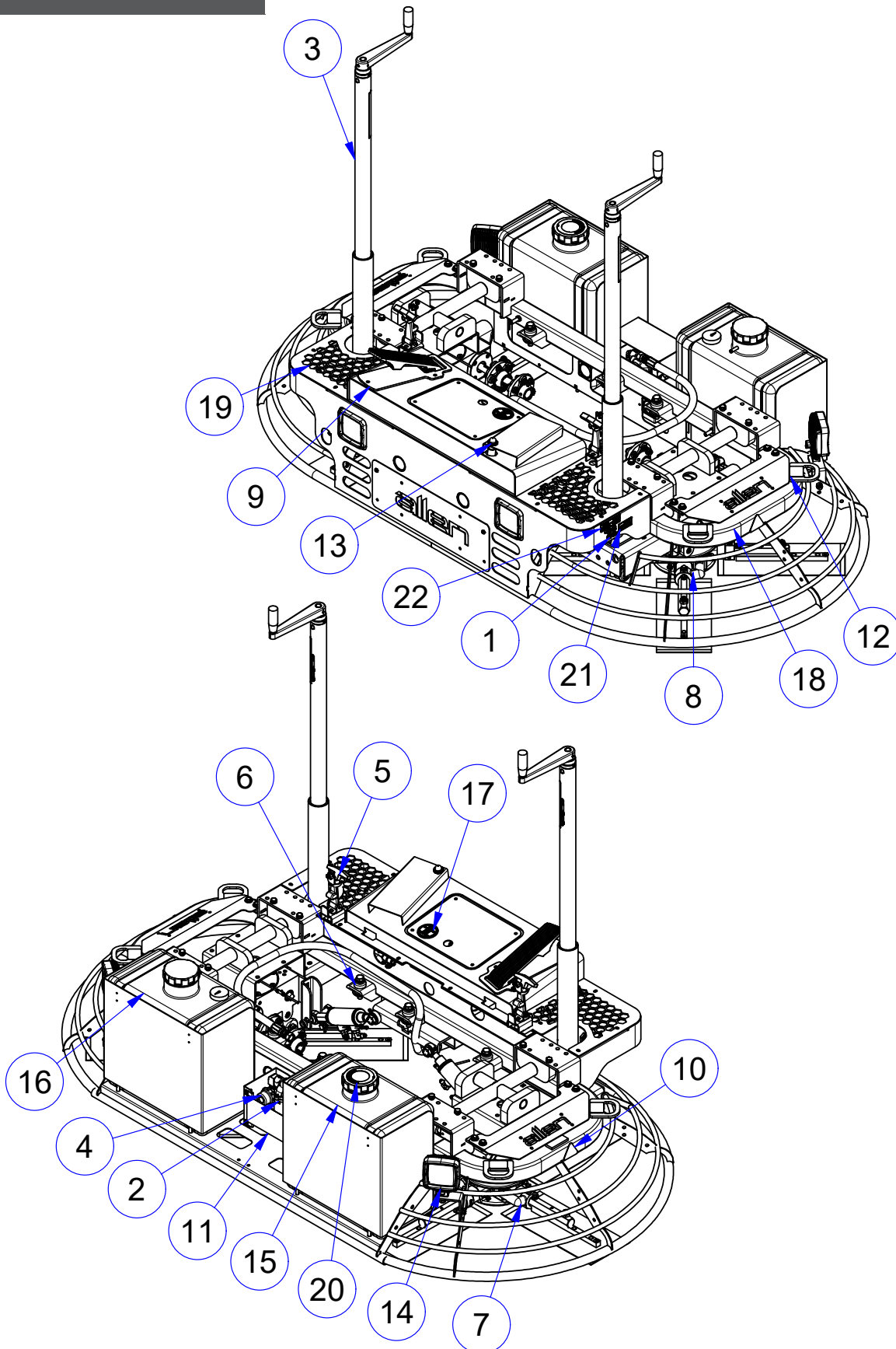


ITEM	PART #	DESCRIPTION	QTY
1	073456	ASSEMBLY, POWER UNIT	1
2	073491	ASSEMBLY, MAIN FRAME	1
3	073455	ASSEMBLY, SEAT FRAME	1

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SECTION 1 PARTS

Main Frame Assembly



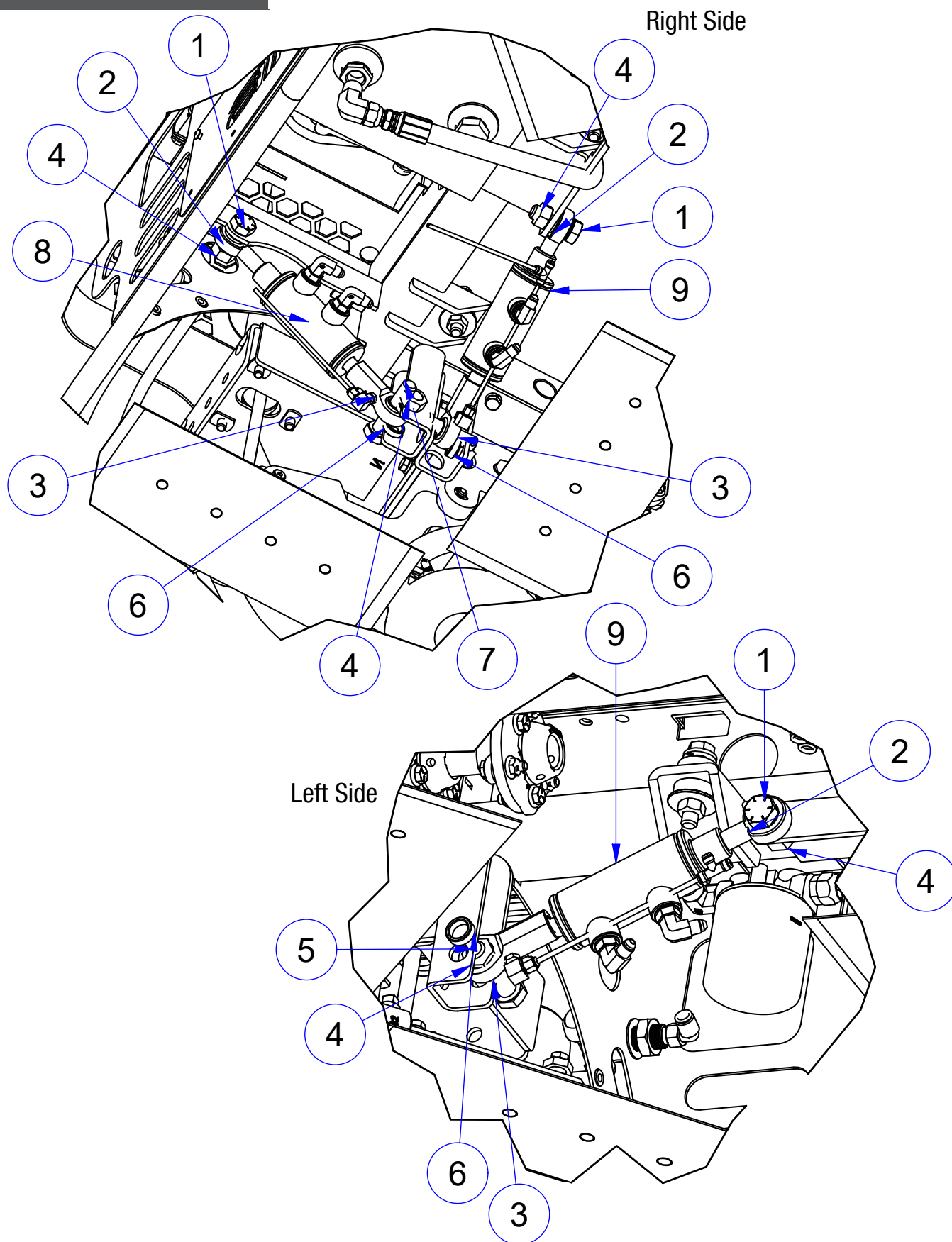
Main Frame Assembly Parts List

SECTION 1 PARTS

ITEM	PART #	DESCRIPTION	QTY
1	010513	FITTING, STR GREASE 1/4"-28	4
2	033735	PUMP, SPRAY SYSTEM	1
3	038174	ASSEMBLY, PITCH CONTROL	2
4	040209	FILTER, SPRAY SYSTEM	1
5	042260	LATCH, FRONT SCREEN	2
6	046744	MOUNT ISOLATOR	6
7	050024	ASSEMBLY, RIGHT HAND ROTOR	1
8	050028	ASSEMBLY, LEFT HAND ROTOR	1
9	063341	FOOT PEDAL, ELECTRONIC	1
10	065656	DECAL, PAN FALL	2
11	067552	DECAL, INFO/WARRANTY	1
12	068459	DECAL, TIE DOWN	4
13	068956	SWITCH, SPRAY SYSTEM	1
14	069835	LIGHT, LED 1200 LUMENS 12V DC	4
15	071536	TANK, 7 GALLON RETARDANT	1
16	072854	TANK, 7 GALLON FUEL	1
17	073457	DECAL, HYDRAULIC FLUID ONLY	1
18	073492	WELDMENT, MAIN FRAME	1
19	073495	DECAL, FRONT FOR MP245X	1
20	073910	DECAL, FOR RETARDANT CAP BLUE	1
21	074086	DECAL, GREASE PORT	1
22	074087	DECAL, DRIVELINE BEARING GREASE & GEARBOXES	1

SECTION 1 PARTS

Main Frame, Steering System



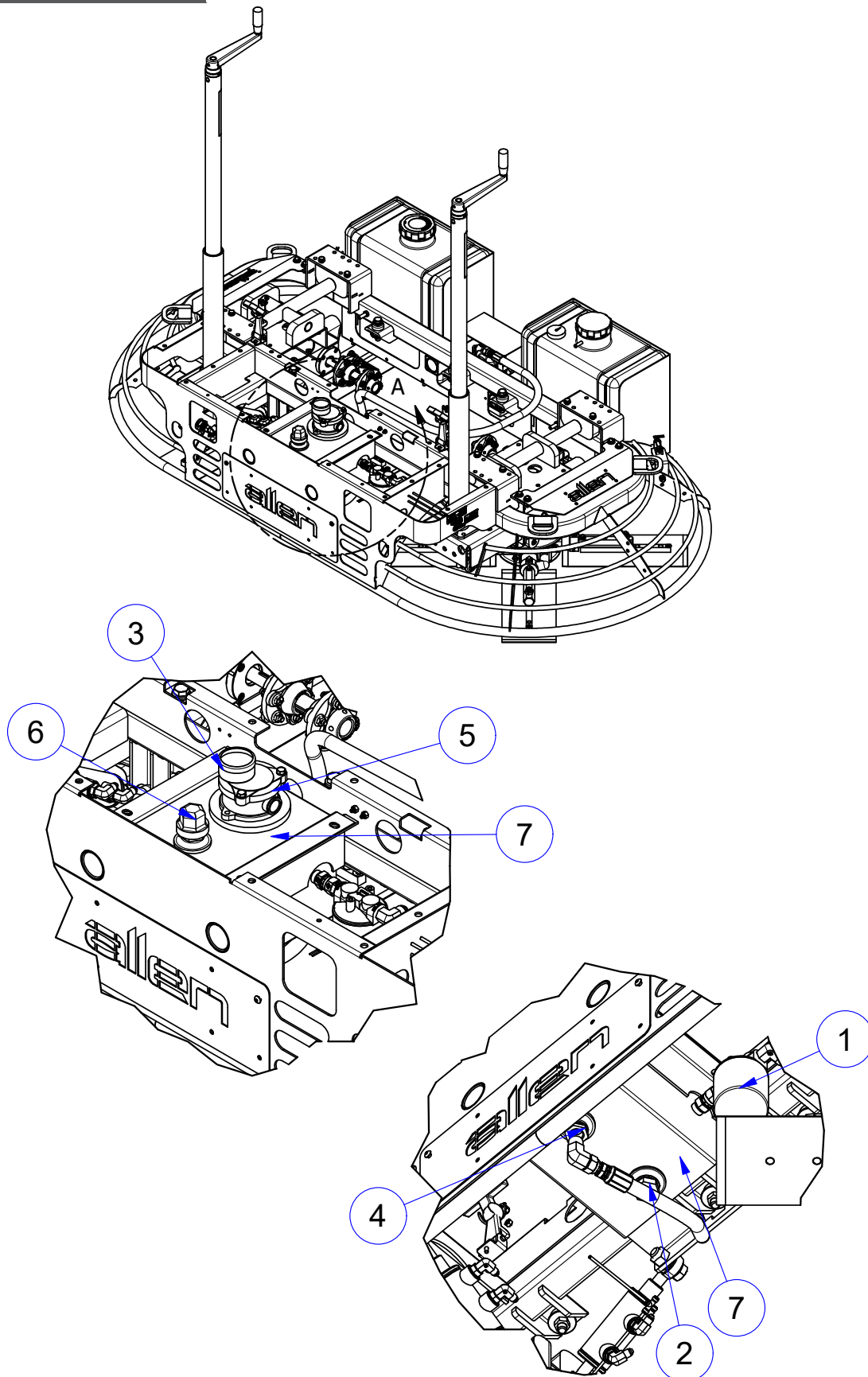
Main Frame, Steering System Parts List

SECTION 1 PARTS

ITEM	PART #	DESCRIPTION	QTY
1	040319	FASTENER, HHCS 5/8"-18 X 1-1/4" GRADE 8	3
2	043124	ROD END MALE 5/8"	3
3	066188	ROD END FEMALE 5/8" WITH FITTING	3
4	043269	FASTENER, STOVER NUT 5/8"-18	5
5	043493	FASTENER, HHCS 5/8"-18 X 2-1/2"	1
6	048627	SPACER FOR STEERING CONNECTION	6
7	010027	FASTENER, HHCS 5/8"-18 X 2-3/4" GRADE 8	1
8	048660	STEERING CYLINDER	1
9	048660	STEERING CYLINDER	2

SECTION 1 PARTS

Main Frame, Hydraulic Tank



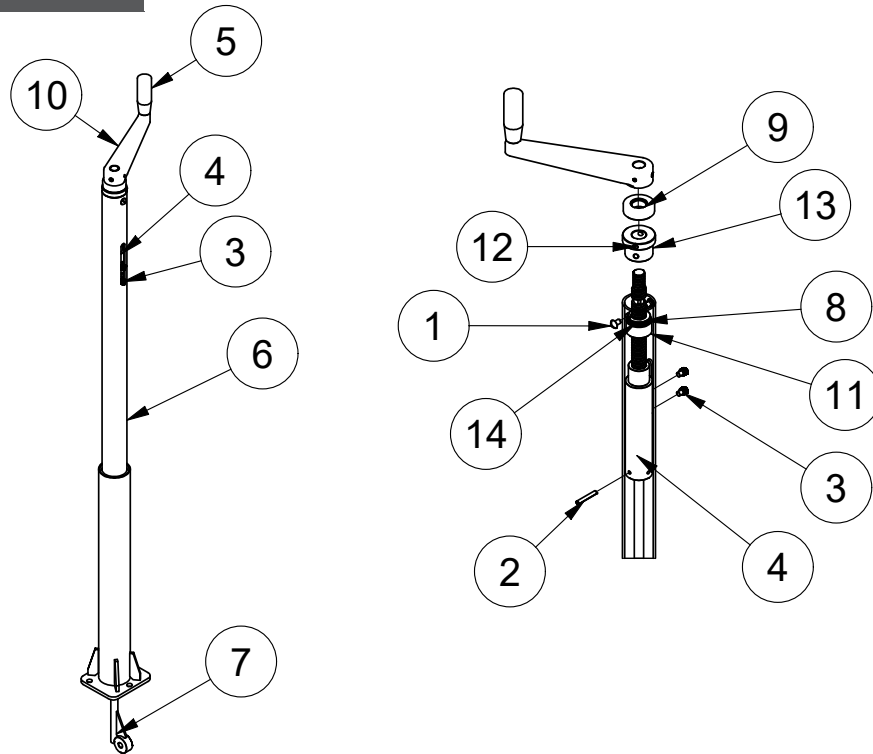
Main Frame, Hydraulic Tank Parts List

SECTION 1 PARTS

ITEM	PART #	DESCRIPTION	QTY
1	046730	FILTER ELEMENT	1
2	045948	FITTING, MAGNETIC PLUG	1
3	046241	GAUGE, RETURN FILTER	1
4	046732	SUCTION STRAINER	1
5	049978	RETURN LINE FILTER	1
6	073277	FILLER BREATHER	1
7	073486	ASSEMBLY, HYDRAULIC TANK	1
-	073505	WELDMENT. HYDRAULIC TANK	1

SECTION 1 PARTS

Pitch Control Assembly



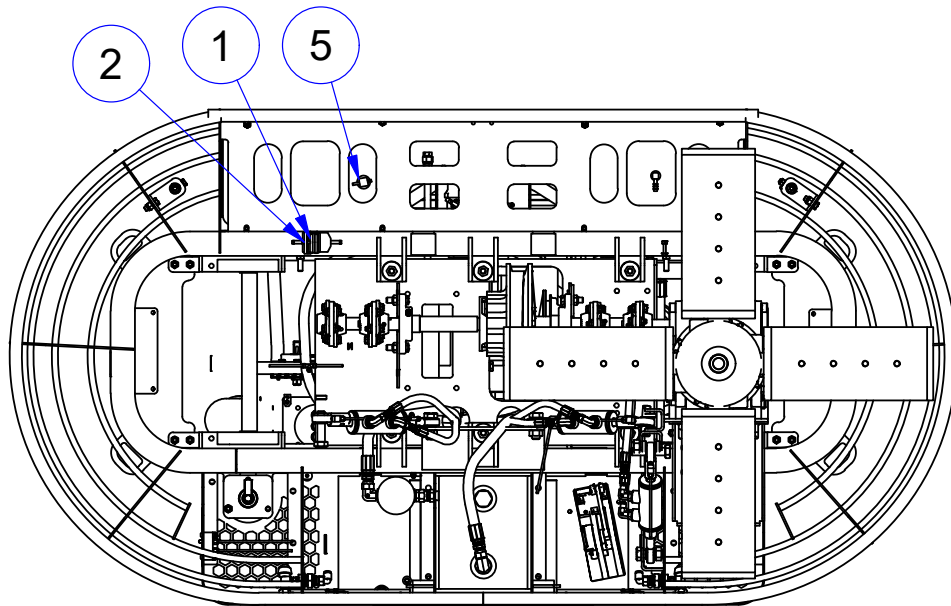
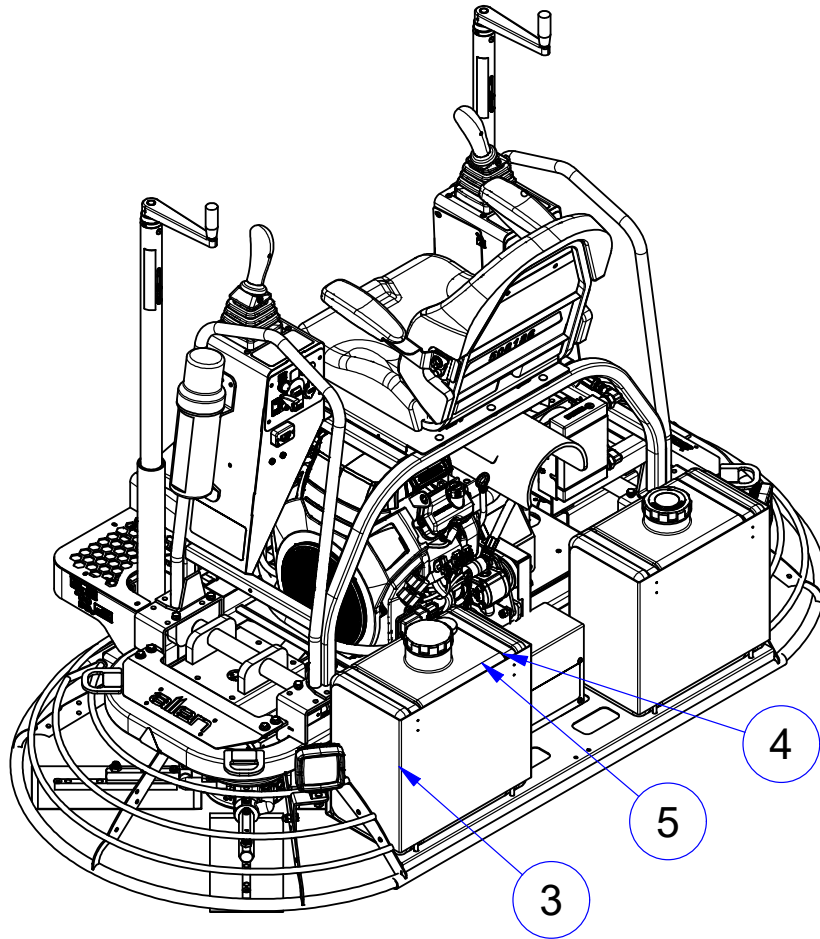
ITEM	PART #	DESCRIPTION	QTY
1	015410	FASTENER, RHMS 1/4"-20 X 3/8"	4
2	015747	PIN, ROLL 3/16" X 1-3/8" SPIROL	2
3	015768	FASTENER, SHCS 1/4"-20 X 1/4"	4
4	029812	BUSHING, SLIDE PITCH CONTROL	2
5	032115	KNOB, PITCH CONTROL HANDLE	2
6	038176	WELDMENT, PITCH CONTROL TUBE	2
7	038178	WELDMENT, PC SHAFT	2
8	012710	THRUST BEARING RACE	4
9	015742	THRUST BEARING	2
10	061529	ASSEMBLY, CRANK HANDLE AND SCREW SHAFT	2
11	032191	STOPPER FOR PITCH CONTROL	2
12	036797	SCREW, 1/4"-28 X 1/4	4
13	036914	BUSHING	2
14	100340	THRUST BEARING	2

***NOTE:** Part quantities referenced in this table represent quantity needed **PER MACHINE**.

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SECTION 1 PARTS

Fuel System



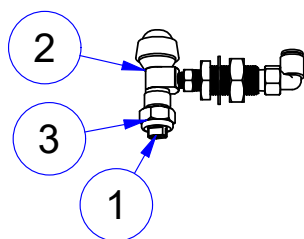
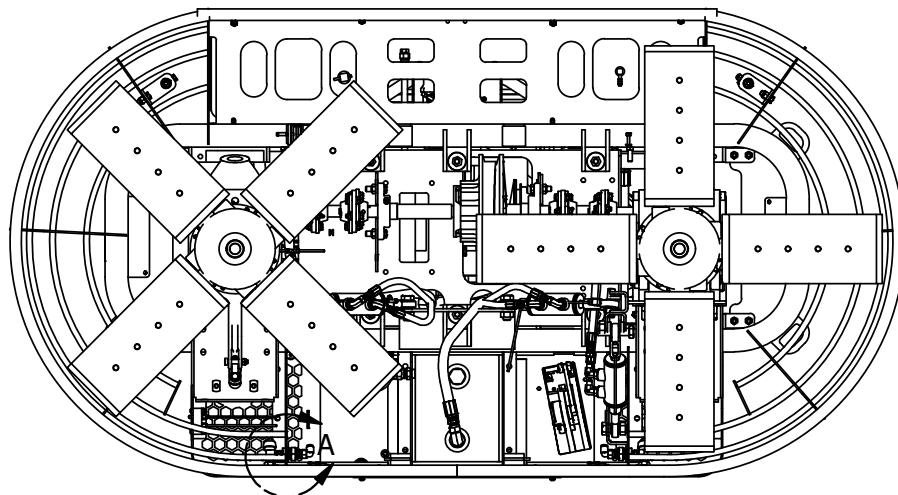
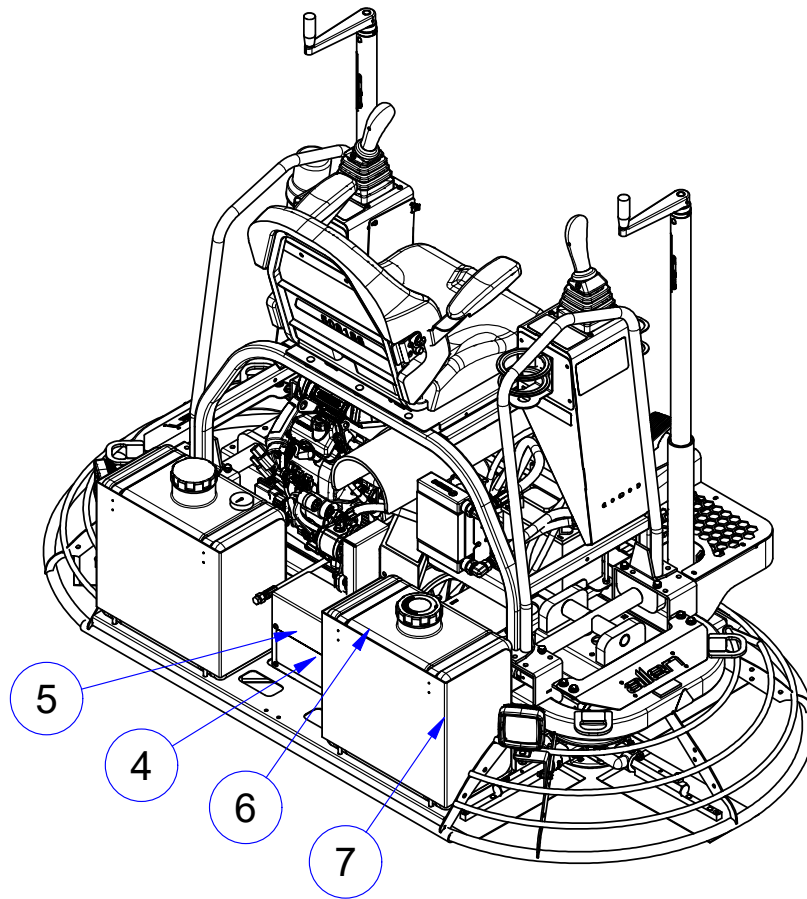
Fuel System Parts List

SECTION 1 PARTS

ITEM	PART #	DESCRIPTION	QTY
1	048963	STRAP FOR FUEL FILTER 1-1/2"	1
2	049150	FILTER, IN-LINE FUEL 1/4"	1
3	072737	WELDMENT, GUARD FOR 7 GALLON TANK	2
4	072854	TANK, 7 GALLON FUEL	1

SECTION 1 PARTS

Spray System



DETAIL A
SCALE 1/3

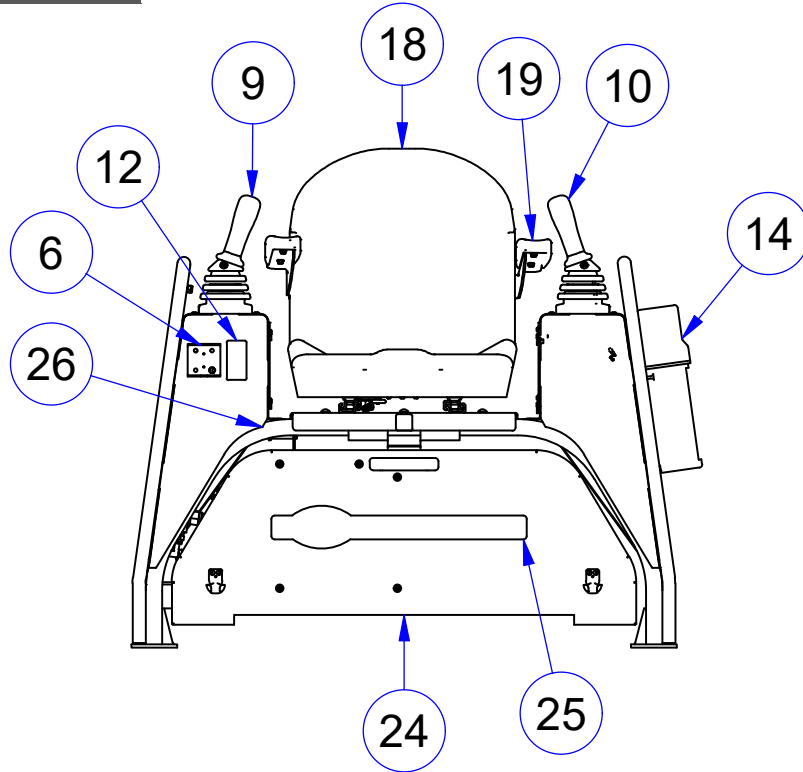
Spray System Parts List

SECTION 1 PARTS

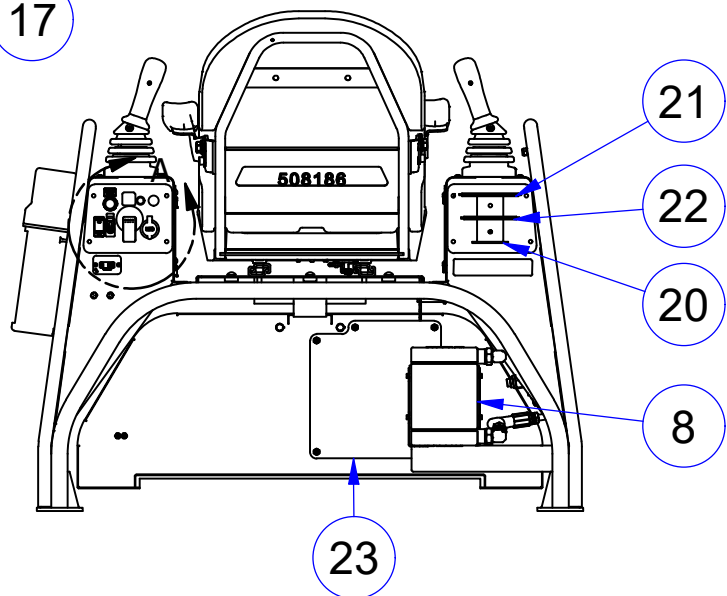
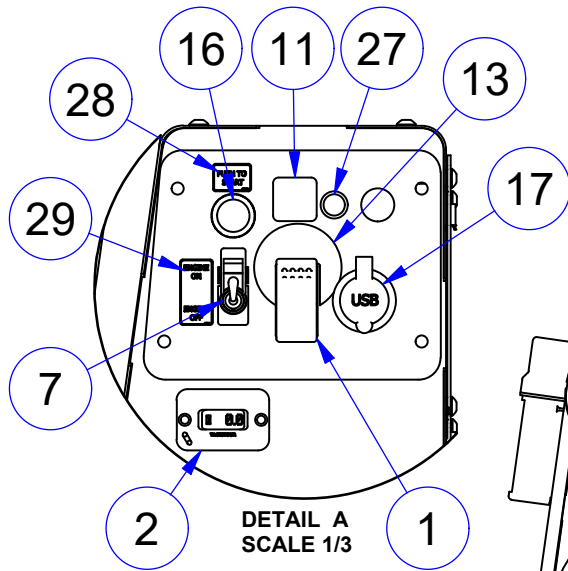
ITEM	PART #	DESCRIPTION	QTY
	074139	KIT, HYDRAULIC SPRAY AND LUBRICATION	1
1	012702	SPRAY TIP	2
2	012704	SPRAY NOZZLE	2
3	012705	SPRAY NOZZLE NUT	2
4	033735	PUMP, SPRAY SYSTEM	1
5	040209	FILTER, SPRAY SYSTEM	1
6	071536	TANK, 7 GALLON RETARDANT	1
7	072737	WELDMENT, GUARD FOR 7 GALLON TANK	1

SECTION 1 PARTS

Seat Frame Assembly



CONTROL PANEL



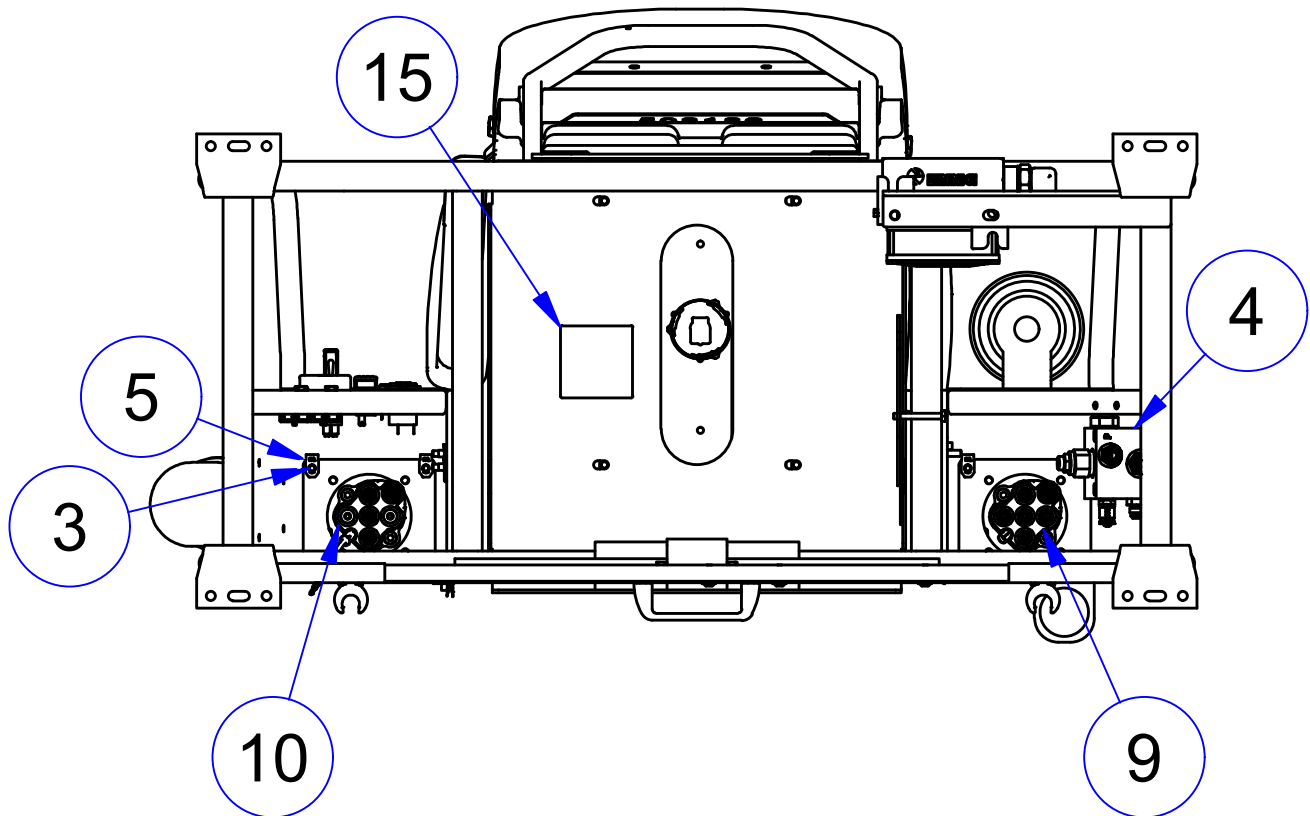
Seat Frame Assembly Parts List

SECTION 1 PARTS

ITEM	PART #	DESCRIPTION	QTY
1	032125	ROCKER SWITCH FOR LIGHTS	1
2	042036	HOUR METER	1
3	042343	FASTENER, SFBHCS 1/4"-20 X 3/4"	16
4	046735	MANIFOLD, HYDRAULIC STEERING	1
5	047546	FASTENER, PAL NUT 1/4"-20	8
6	049632	BRACKET, TOOL HOLDER	1
7	050603	TOGGLE SWITCH, ENGINE ON/OFF	1
8	052930	COOLER, AIR/OIL	1
9	064817	CONTROL VALVE, RIGHT HAND DUAL AXIS	1
10	064818	CONTROL VALVE, LEFT HAND SINGLE AXIS	1
11	065913	DECAL, GEARBOX OIL	1
12	065916	DECAL, HAND TOOL AREA	1
13	065918	DECAL, LIGHTS	1
14	066255	MANUAL TUBE	1
15	067934	DECAL, EPA LABEL	1
16	068956	SWTICH, PUSH TO START	1
17	069850	USE RECEPTICAL 12V	1
18	069874	SEAT	1
-	061374	KILL SWITCH, SEAT	1
19	069875	SEAT ARM REST (RH/LH SET)	1
20	071120	METAL CUP HOLDER	1
21	071123	TRIM CUT FOR TOP SECTION OF CUP HOLDER	1
22	071124	TRIM CUT FOR MIDDLE SECTION OF CUP HOLDER	1
23	073408	PLATE HEAT SHIELD, FRONT SCREEN	1
24	073450	ASSEMBLY, FRONT SCREEN	1
25	075440	DECAL, MP245 FRONT SCREEN	1
26	073454	WELDMENT, SEAT FRAME	1
27	073948	LIGHT, RED LED	1
28	074011	DECAL, PUSH TO START	1
29	074012	DECAL, ENGINE ON/OFF	1

SECTION 1 PARTS

Seat Frame Assembly Continued



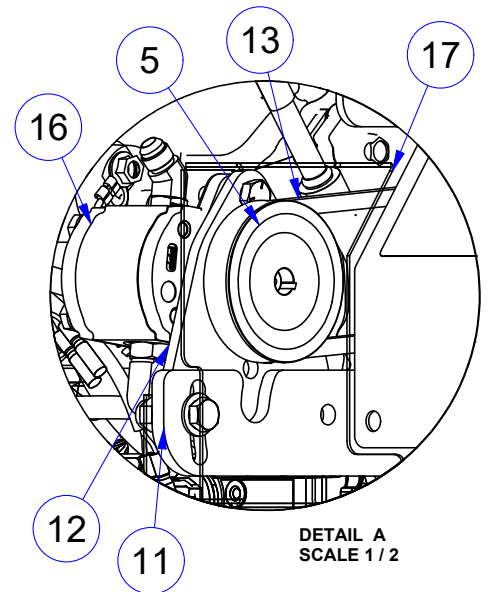
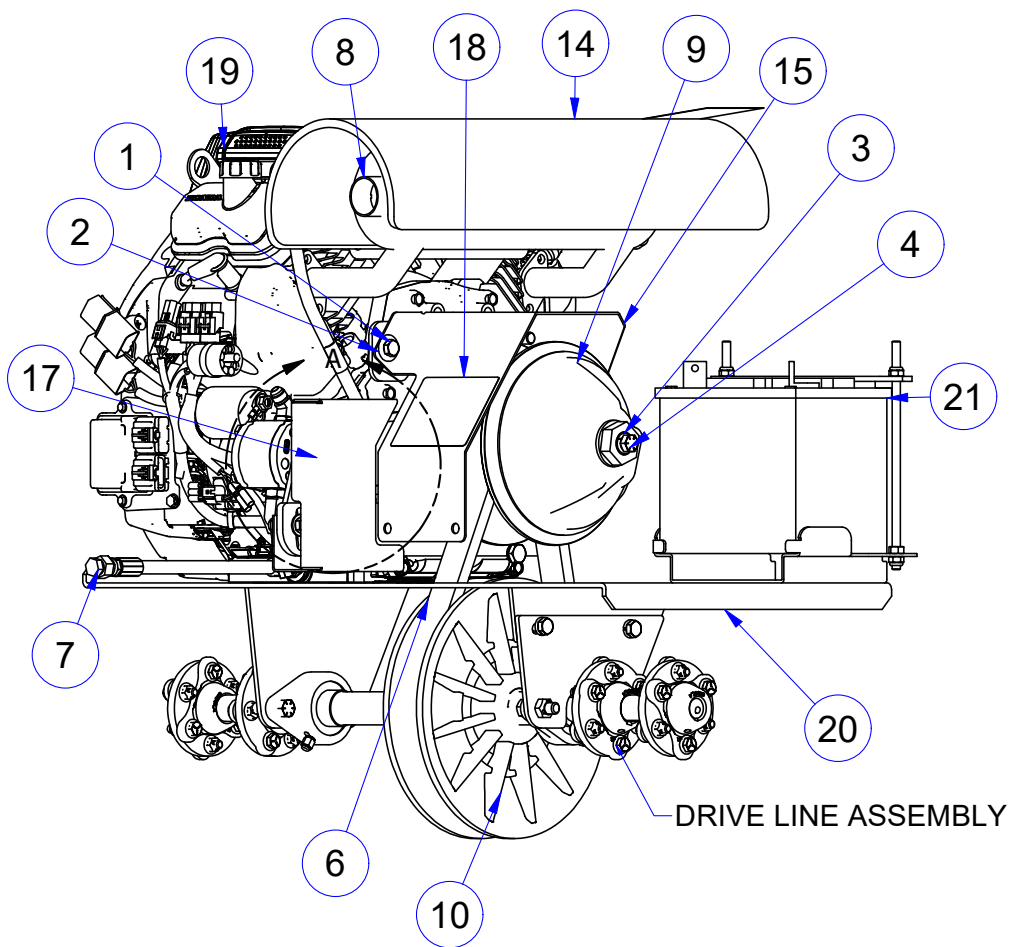
Seat Frame Assembly Parts List

SECTION 1 PARTS

ITEM	PART #	DESCRIPTION	QTY
1	032125	ROCKER SWITCH FOR LIGHTS	1
2	042036	HOUR METER	1
3	042343	FASTENER, SFBHCS 1/4"-20 X 3/4"	16
4	046735	MANIFOLD, HYDRAULIC STEERING	1
5	047546	FASTENER, PAL NUT 1/4"-20	8
6	049632	BRACKET, TOOL HOLDER	1
7	050603	TOGGLE SWITCH, ENGINE ON/OFF	1
8	052930	COOLER, AIR/OIL	1
9	064817	CONTROL VALVE, RIGHT HAND DUAL AXIS	1
10	064818	CONTROL VALVE, LEFT HAND SINGLE AXIS	1
11	065913	DECAL, GEARBOX OIL	1
12	065916	DECAL, HAND TOOL AREA	1
13	065918	DECAL, LIGHTS	1
14	066255	MANUAL TUBE	1
15	067934	DECAL, EPA LABEL	1
16	068956	SWTICH, PUSH TO START	1
17	069850	USE RECEPTICAL 12V	1
18	069874	SEAT	1
-	061374	KILL SWITCH, SEAT	1
19	069875	SEAT ARM REST (RH/LH SET)	1
20	071120	METAL CUP HOLDER	1
21	071123	TRIM CUT FOR TOP SECTION OF CUP HOLDER	1
22	071124	TRIM CUT FOR MIDDLE SECTION OF CUP HOLDER	1
23	073408	PLATE HEAT SHIELD, FRONT SCREEN	1
24	073450	ASSEMBLY, FRONT SCREEN	1
25	075440	DECAL, MP245 FRONT SCREEN	1
26	073454	WELDMENT, SEAT FRAME	1
27	073948	LIGHT, RED LED	1
28	074011	DECAL, PUSH TO START	1
29	074012	DECAL, ENGINE ON/OFF	1

SECTION 1 PARTS

Power Unit Assembly



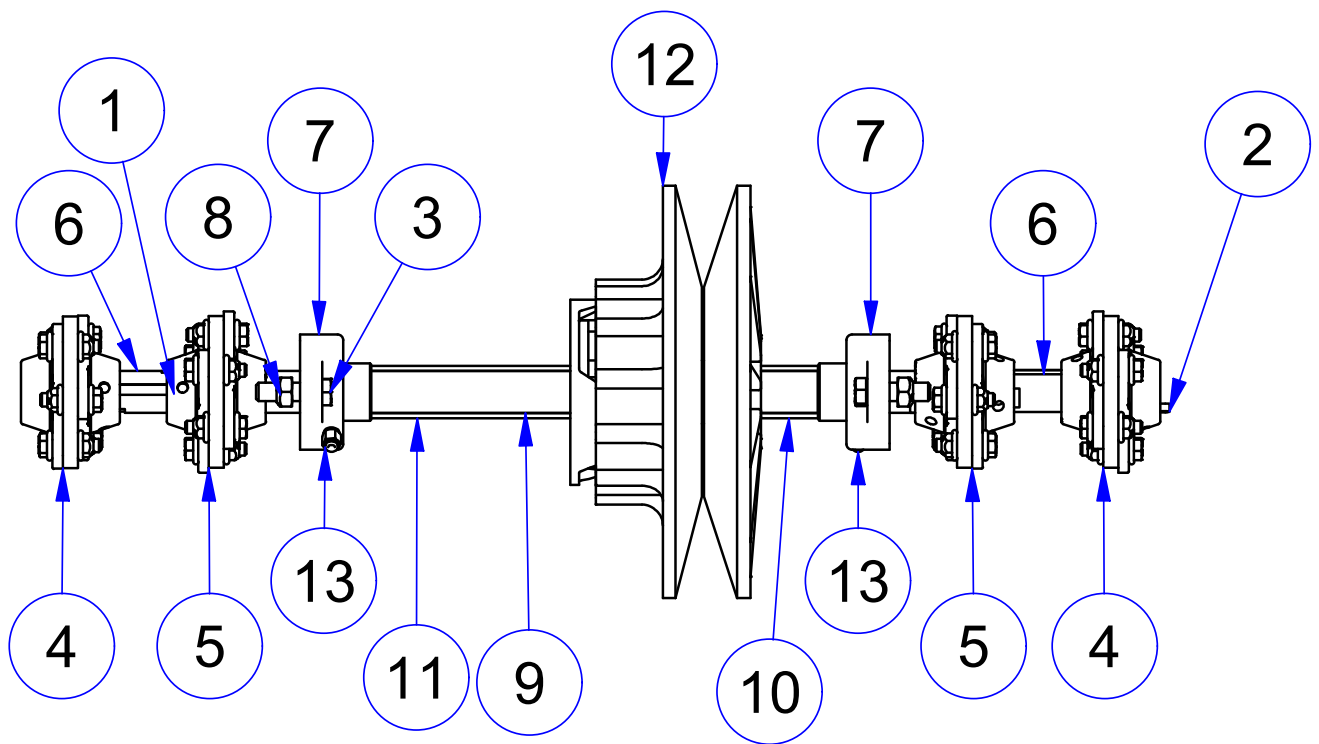
Power Unit Assembly Parts List

SECTION 1 PARTS

ITEM	PART #	DESCRIPTION	QTY
1	010035	FASTENER, HHCS 3/8"-16 X 3/4" GRADE 8	4
2	010091	FASTENER, FLAT WASHER 3/8"	4
3	010092	FASTENER, LOCK WASHER 7/16"	3
4	042280	FASTENER, HHCS 7/16"-20 X 4-1/2" GRADE 8	1
5	046550	PULLEY, AK30 X 1/2" BORE W/2SS	1
6	051332	BELT, CVT	1
7	051980	DRAIN HOSE	1
8	051981	MUFFLER	1
9	053327	DRIVER PULLEY, CLUTCH	1
10	053389	DRIVEN PULLEY	1
11	056906	ENGINE CONNECTING PLATE	1
12	056912	WELDMENT, HYD. PUMP MOUNTING PLATE	1
13	056922	V BELT, A22 HI POWER	1
14	056938	HEAT WRAP 14" X 20"	1
15	065435	CLUTCH COVER	1
16	066794	GEAR PUMP, HYDRAULIC	1
17	067432	GUARD FOR PUMP	1
18	067551	DECAL, MP245 WARNINGS	1
19	073485	ENGINE, HONDA IGX700	1
20	074300	WELDMENT, ENGINE MOUNTING PLATE	1
21	BT0100	BATTERY	1

SECTION 1 PARTS

Driveline Assembly



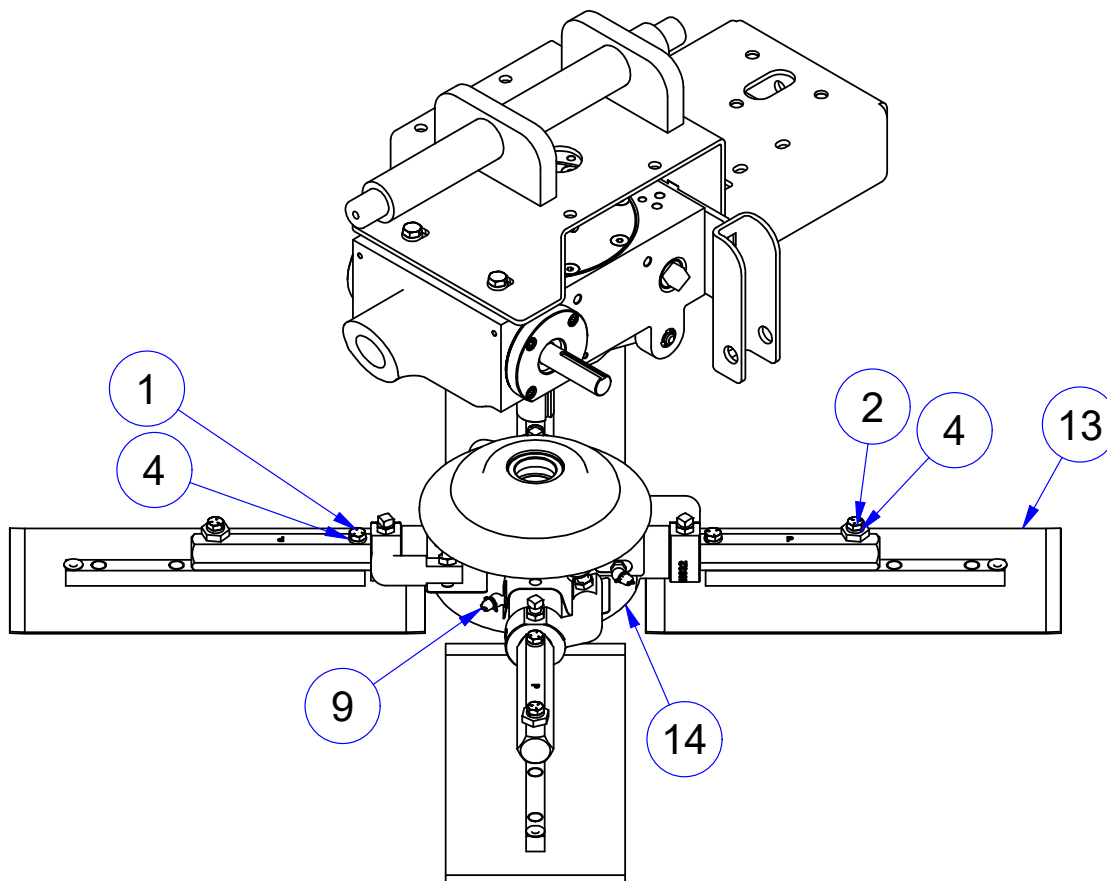
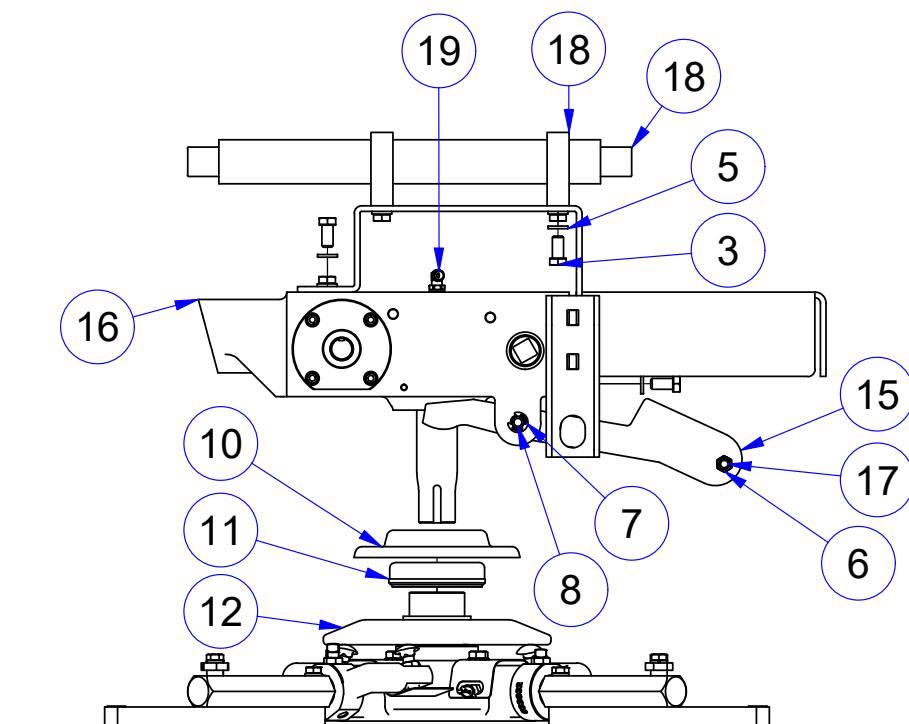
Driveline Assembly Parts List

SECTION 1 PARTS

ITEM	PART #	DESCRIPTION	QTY
1	011791	KEY, 1/4" SQ X 1"	6
2	015813	KEY, 3/16" SQ X 1" RADI ENDS	2
-	024820	KEY FOR DRIVEN PULLEY, 1/4" SQ X 4"	1
3	017989	FASTENER, HHCS 7/16"-20 X 1-1/2"	4
4	024967	COUPLER, DIA. 3/4" X 1"	2
5	024968	COUPLER, DIA. 1" X 1"	2
6	024971	SHAFT, DRIVE END 3-1/8"	2
7	039136	1" FLANGED TWO BOLT BEARING	2
8	047477	STOVER NUT, 7/16"-20	4
9	050070	DRIVE SHAFT 17-1/2"	1
10	053193	SPACER BEARING 1-3/8"	1
11	053194	SPACER BEARING 4-3/4"	1
12	053389	DRIVEN PULLEY	1
13	073817	FITTING, STRAIGHT PUSH IN 4MM TUBING 1/8" NTP	2

SECTION 1 PARTS

Left Hand Rotor Assembly



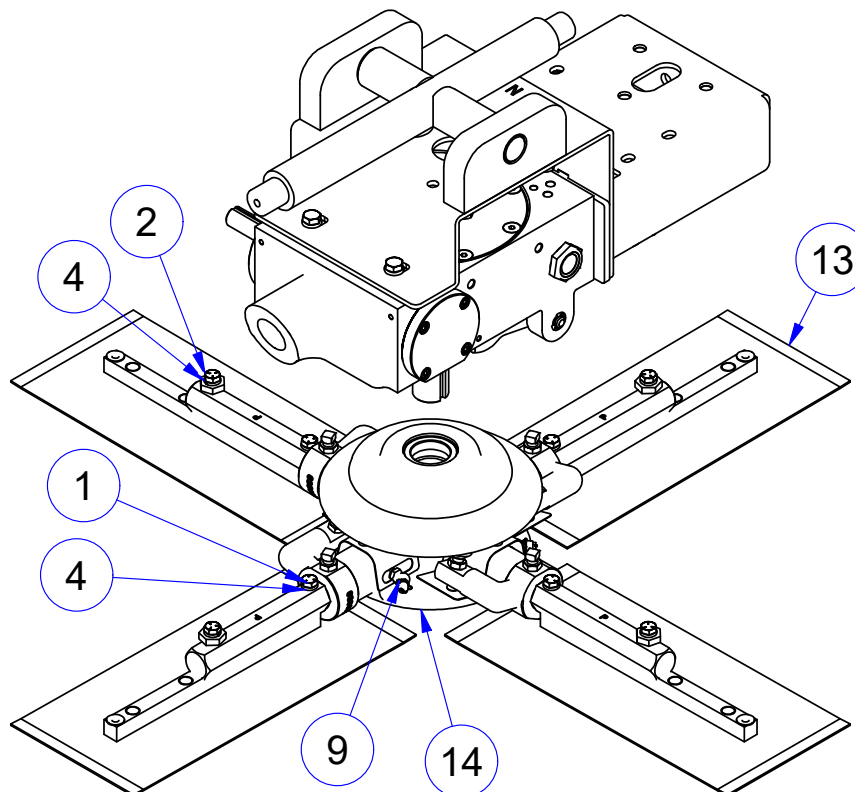
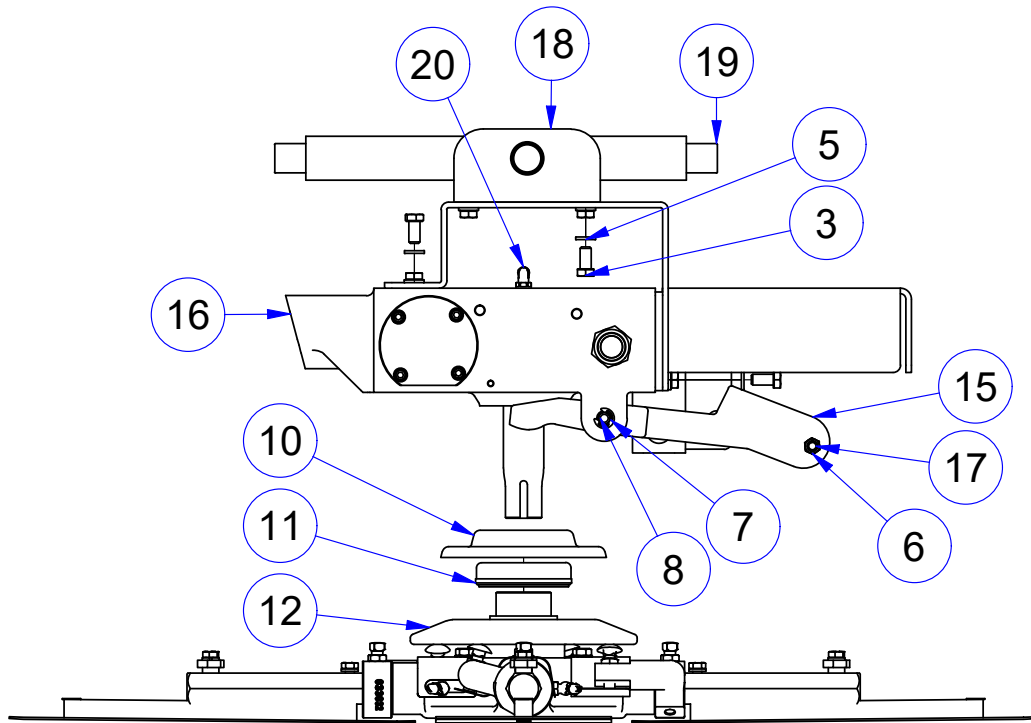
LH Rotor Assembly Parts List

SECTION 1 PARTS

ITEM	PART #	DESCRIPTION	QTY
1	010023	FASTENER, HHCS 5/16"-18 X 1-3/4"	4
2	010024	FASTENER, HHCS 5/16"-18 X 2"	4
3	010035	FASTENER, HHCS 3/8"-16 X 3/4"	10
4	010090	FASTENER, LOCK WASHER 5/16"	8
5	010091	FASTENER, LOCK WASHER 3/8"	10
6	012612	FASTENER, HEX NUT NYLOCK 5/16"-18	1
7	015677	RETAINING RING E-STYLE DIA. 7/16"	2
8	015678	PIN, YOKE ARM	1
9	015692	GREASE CAP DIA. 1/4"	4
10	015821	CAP, PRESSURE PLATE	1
11	015822	THRUST BEARING	1
12	015824	PRESSURE PLATE	1
13	015890V	TROWEL BLADE 6" X 14"	4
14	015893	ASSEMBLY, SPIDER LEFT HAND	1
15	026215	YOKE ARM	1
16	026442	ASSEMBLY, STD GEARBOX LEFT HAND	1
17	026504	FASTENER, SHLDR BLT 3/8"X1-1/4"	1
18	050022	CROSSHEAD, 2 WAY	1
19	074094	FITTING, 90° 4MM TUBEX1/4"-28 SWIVAL	1

SECTION 1 PARTS

Right Hand Rotor Assembly



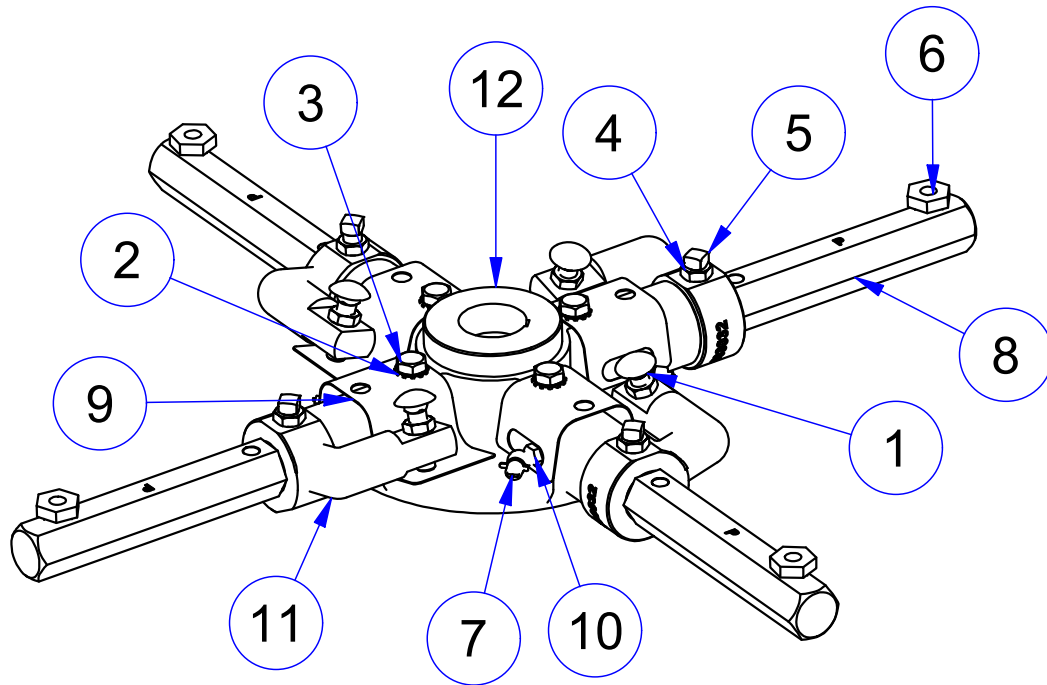
RH Rotor Assembly Parts List

SECTION 1 PARTS

ITEM	PART #	DESCRIPTION	QTY
1	010023	FASTENER, HHCS 5/16"-18 X 1-3/4",	4
2	010024	FASTENER, HHCS 5/16"-18 X 2"	4
3	010035	FASTENER, HHCS 3/8"-16 X 3/4"	10
4	010090	FASTENER, LOCK WASHER 5/16"	8
5	010091	FASTENER, LOCK WASHER 3/8"	10
6	012612	FASTENER, HEX NUT NYLOCK 5/16"-18	1
7	015677	RETAINING RING DIA. 7/16" E-STYLE	2
8	015678	PIN, YOKE ARM	1
9	015692	GREASE CAP DIA. 1/4"	4
10	015821	PRESSURE PLATE CAP	1
11	015822	THRUST BEARING	1
12	015824	PRESSURE PLATE	1
13	015890V	TROWEL BLADE, FINISH 6" X 14"	4
14	024813	ASSEMBLY, SPIDER LEFT HAND	1
15	026215	YOKE ARM	1
16	026443	ASSEMBLY, GEARBOX STANDARD RIGHT HAND	1
17	026504	SHOULDER SCREW 5/16"-18 X 1/2" X DIA. 3/8" X 1-1/4"	1
18	048561	ASSEMBLY, ROTOR MOUNT BEARINGS	2
-	048560	BEARING, FLANGED FOR ROTOR MOUNT	2
19	050020	CROSSHEAD FOUR WAY	1
20	074094	FITTING, 90° 4MM TUBE X 1/4"-28 SWIVAL	1

SECTION 1 PARTS

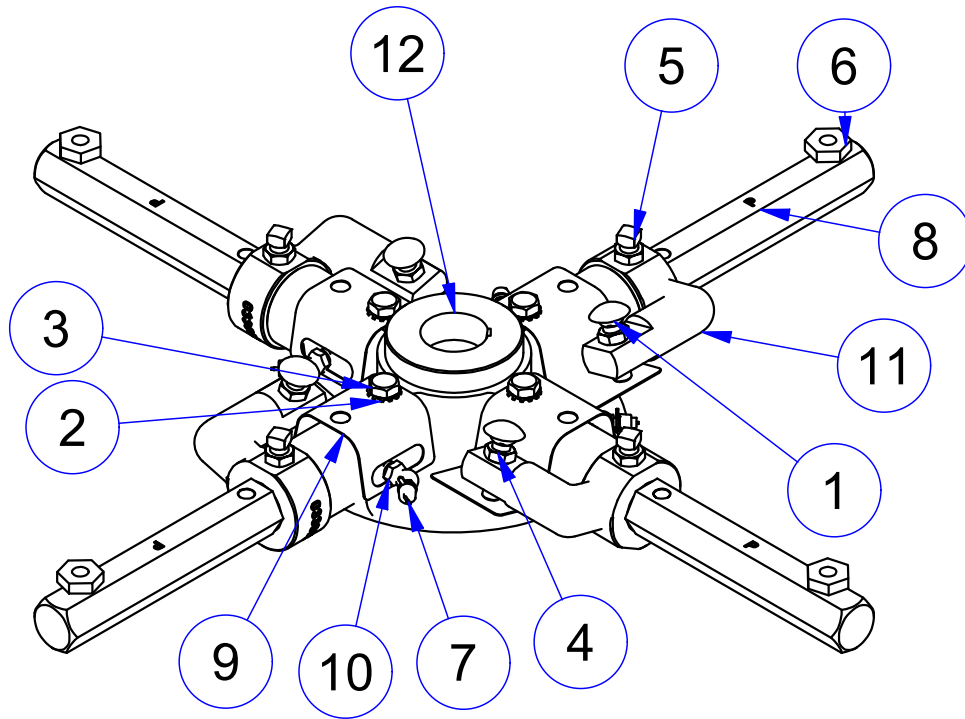
Left Hand Spider Assembly



ITEM	PART #	DESCRIPTION	QTY
1	012990	FASTENER, CABLT 3/8"-16 X 1-1/4"	4
2	015682	FASTENER, EXT STAR LOCK WASHER 3/8"	4
3	015683	FASTENER, HHCS 3/8"-16 X 7/8"	4
4	015684	FASTENER, JAM HEX NUT 3/8"-16	8
5	015686	FASTENER, SQHSS 3/8"-16 X 1"	4
6	015688	FASTENER, 9/16"-18 NF ADJ/MACH SCREW	4
7	015692	RED GREASE CAP DIA. 1/4"	4
8	069910	TROWEL ARM	4
9	016920	SPRING CLIP	4
10	024755	FITTING, GREASE 1/8"-27 45°	4
11	033032	LIFT LEVER 1"	4
12	064221P	SPIDER FOUR BOSS	1

Right Hand Spider Assembly

SECTION 1 PARTS



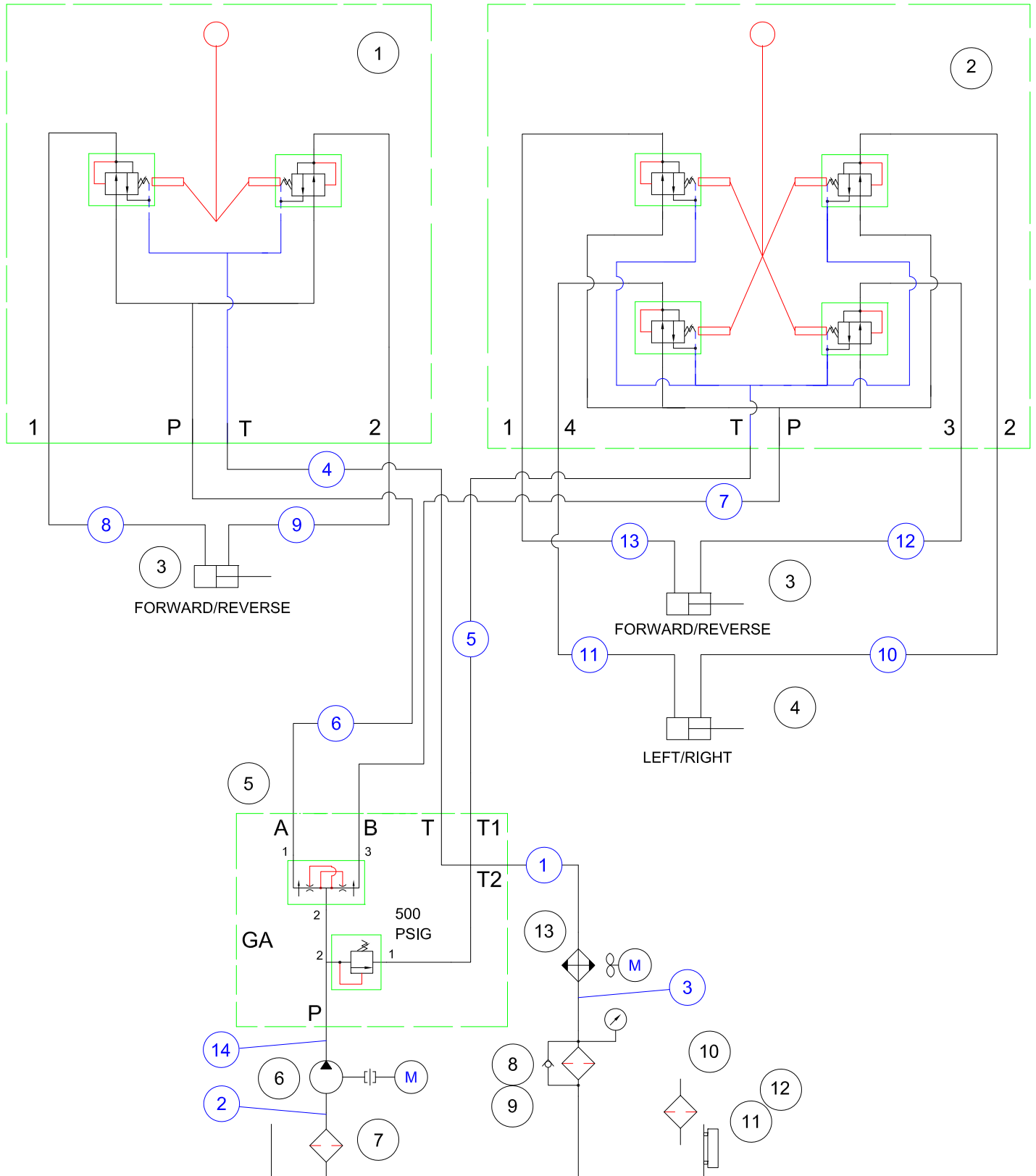
ITEM	PART #	DESCRIPTION	QTY
1	012990	FASTENER, CABLE 3/8"-16 X 1-1/4"	4
2	015682	FASTENER, EXT STAR LOCK WASHER 3/8"	4
3	015683	FASTENER, HHCS 3/8"-16 X 7/8"	4
4	015684	FASTENER, JAM HEX NUT 3/8"-16	8
5	015686	FASTENER, SQHSS 3/8"-16 X 1"	4
6	015688	FASTENER, 9/16"-18 NF ADJ/MACH SCREW	4
7	015692	RED GREASE CAP DIA. 1/4"	4
8	069910	TROWEL ARM	4
9	016920	SPRING CLIP	4
10	024755	FITTING, GREASE 1/8"-27 45°	4
11	033032	LIFT LEVER 1"	4
12	064221P	SPIDER FOUR BOSS	1

SECTION 1 PARTS

Hydraulics Schematic

LEFT HAND JOYSTICK
STEERING CONTROL

RIGHT HAND JOYSTICK
STEERING CONTROL



Hydraulics Schematic Parts List

SECTION 1 PARTS

ITEM	PART #	DESCRIPTION	QTY
-	075958	KIT, HYDRAULICS MP245X	1
1	064818	JOYSTICK, LEFT HAND	1
2	064817	JOYSTICK, RIGHT HAND	1
3	048660	FWD/REV. STEERING CYLINDER	2
4	048660	LEFT/RIGHT STEERING CYLINDER	1
5	046735	STEERING MANIFOLD	1
6	071679	HYDRAULIC GEAR PUMP	1
7	046732	SUCTION STRAINER	1
8	049978	RETURN LINE FILTER	1
-	046730	RETURN LINE FILTER ELEMENT	-
9	046241	FILTER VISUAL INDICATOR GAUGE	1
10	FI0350	FILLER BREATHER	1
11	056932	SIGHT LEVEL INDICATOR	1
12	045948	MAGNETIC TANK PLUG	1
13	052930	AIR/OIL COOLER	1
14	071677	MP245 FITTING KIT	1
15	050050	MP245 HOSE KIT	1
-	001002	OIL, HYDRAULIC 46 (DTE25)	-

050050 - MP245 HOSE KIT (BLUE PART #)

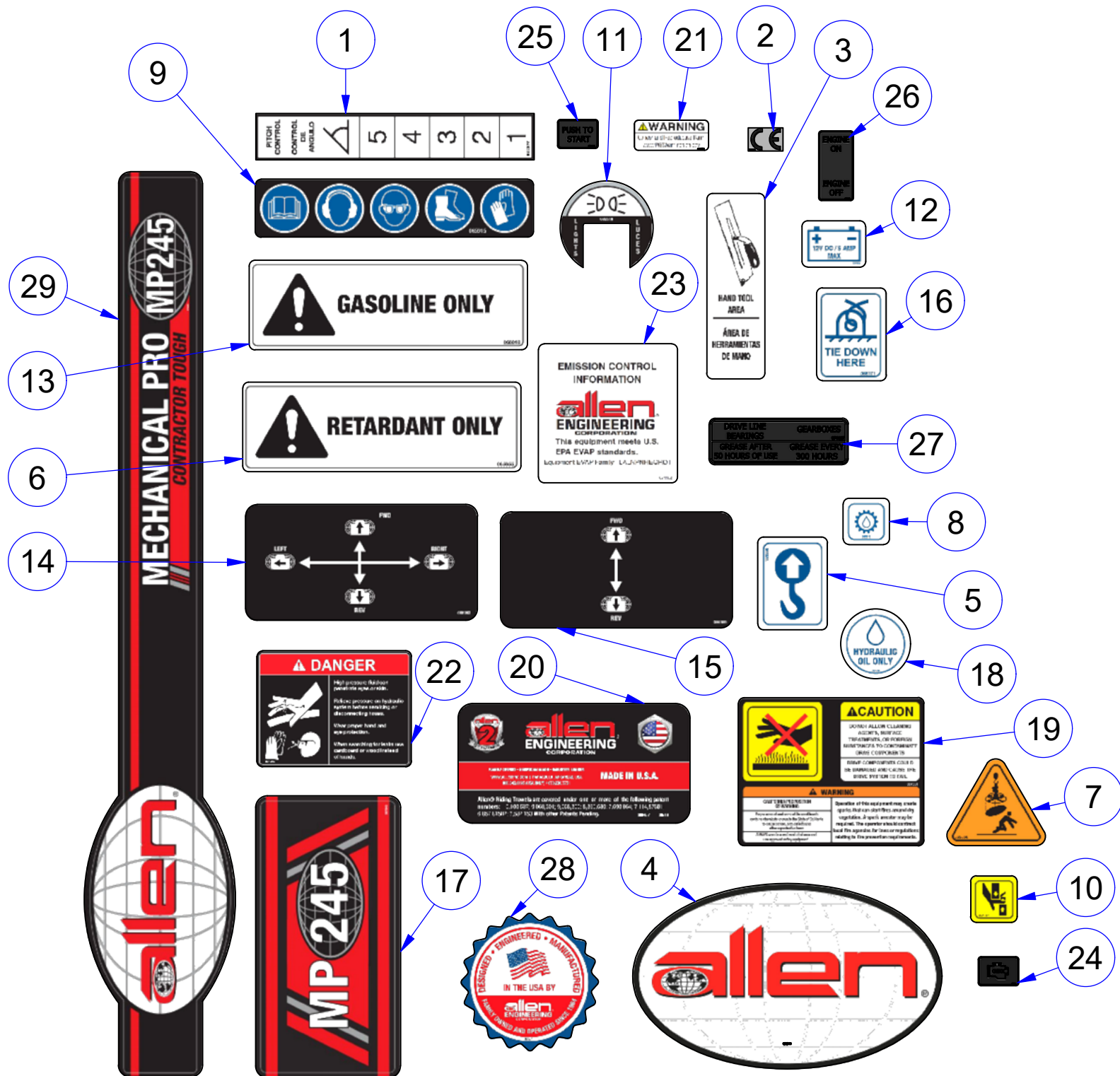
NO.	PART #	DESCRIPTION	QTY
1	068070	HOSE, HS-245-1	1
2	068071	HOSE, HS-245-2	1
3	068072	HOSE, HS-245-3	1
4	068073	HOSE, HS-245-4	1
5	068074	HOSE, HS-245-5	1
6	068075	HOSE, HS-245-6	1
7	068076	HOSE, HS-245-7	1
8	068077	HOSE, HS-245-8	1
9	068078	HOSE, HS-245-9	1
10	068079	HOSE, HS-245-10	1
11	068080	HOSE, HS-245-11	1
12	068081	HOSE, HS-245-12	1
13	068082	HOSE, HS-245-13	1
14	068083	HOSE, HS-245-14	1

SECTION 2: DECALS

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SECTION 2 DECALS

Decals, MP245X



MP245X Decal Kit
PN: 074095

Decals, MP245X Parts List**SECTION 2
DECALS**

ITEM	PART #	DESCRIPTION	QTY
1	032377	PITCH CONTROL TUBE	2
2	039893	CE MARKING	1
3	053447	HAND TOOL AREA	1
4	056340	ALLEN OVAL 4" X 6.67" WHITE	1
5	065653	LIFT HOOK	2
6	065655	RETARDANT ONLY	1
7	065656	PAN FALL	2
8	065913	GEARBOX OIL	1
9	065915	PPE	1
10	065917	PINCH POINT	2
11	065918	LIGHTS	1
12	065919	12 VOLT DC/5 AMP MAX	1
13	066018	GAS ONLY	1
14	066083	2 DIRECTION	1
15	066169	1 DIRECTION	1
16	066171	TIE DOWN ONLY	4
17	067549	MP245 SIDE PANEL	2
18	067550	HYDRAULIC OIL ONLY	1
19	067551	MP245 WARNINGS	1
20	068457	PATENT PLACARD	1
21	069225	PROPOSITION 65	1
22	070402	DANGER-HIGHER PRESSURE WARNING	1
23	071102	EPA LABEL	1
24	072966	CHECK ENGINE LIGHT	1
25	074011	PUSH TO START	1
26	074012	ENGINE ON/OFF	1
27	074087	DRIVE LINE BEARING GREASE & GEARBOXES	1
28	075276	MADE IN AMERICA	1
29	075440	MP245 FRONT PANEL	1

Revision Details

MANUAL REVISION DETAIL

REVISION #	REVISION DATE	REVISION REFERENCE #	REVISION BY
	12/21	Initial Release	MK
A	01/22	Updated Covers	MK

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Allen® Products are covered under one or more of the following patent numbers:

U.S. Design Patents: 344,736; 400,542; 400,544; 402,998; 402,999; 403,332; 404,041; 404,042; 410,931; 413,127; 416,564; 465,897; 466,909; 474,203.

U.S. Utility Patents: 5,108,220; 5,238,323; 5,328,295; 5,352,063; 5,405,216; 5,476,342; 5,480,257; 5,480,258; 5,533,831; 5,562,361; 5,567,075; 5,613,801; 5,658,089; 5,685,667; 5,803,658; 5,816,739; 5,816,740; 5,890,833; 5,934,823; 5,967,696; 5,988,938; 5,988,939; 6,019,433; 6,019,545; 6,048,130; 6,053,660; 6,089,786; 6,106,193; 6,857,815; 5,288,166; 6,582,153 B1, 7,108,449; 7,114,876; 7,316,523; 7,690,864 B2

Canadian Patents: 2,039,893.

With other Patents Pending.

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