

RIDING TROWEL

MSP445



PARTS & DECALS MANUAL

Manual Part #: 075705P | Revision: K
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>
071200	RIDER, MSP445, Kohler ECH980
076030	RIDER, MSP445, Vanguard 61G2

For more information regarding the following, please see “MSP445 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 the Safety and Operations 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.

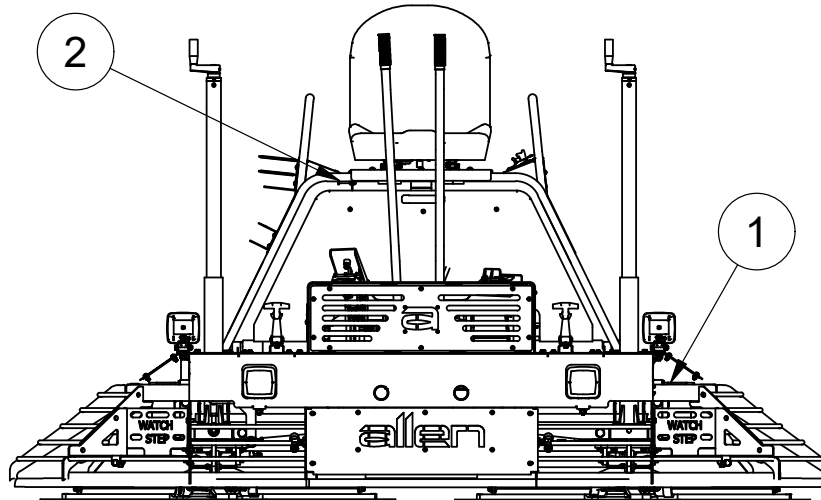


All information, specifications, and illustrations in this manual are subject to change without notice and are based on the latest information at the time of publication.

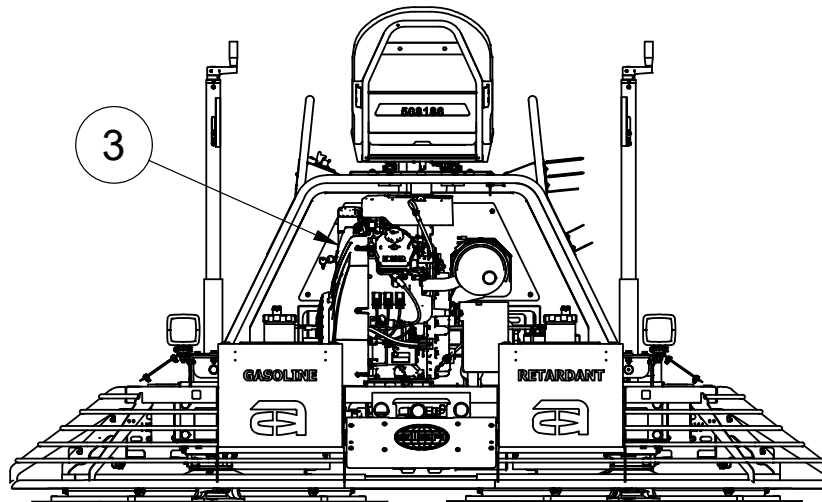
SECTION 1 PARTS

General Arrangement, Kohler (071200)

FRONT



REAR

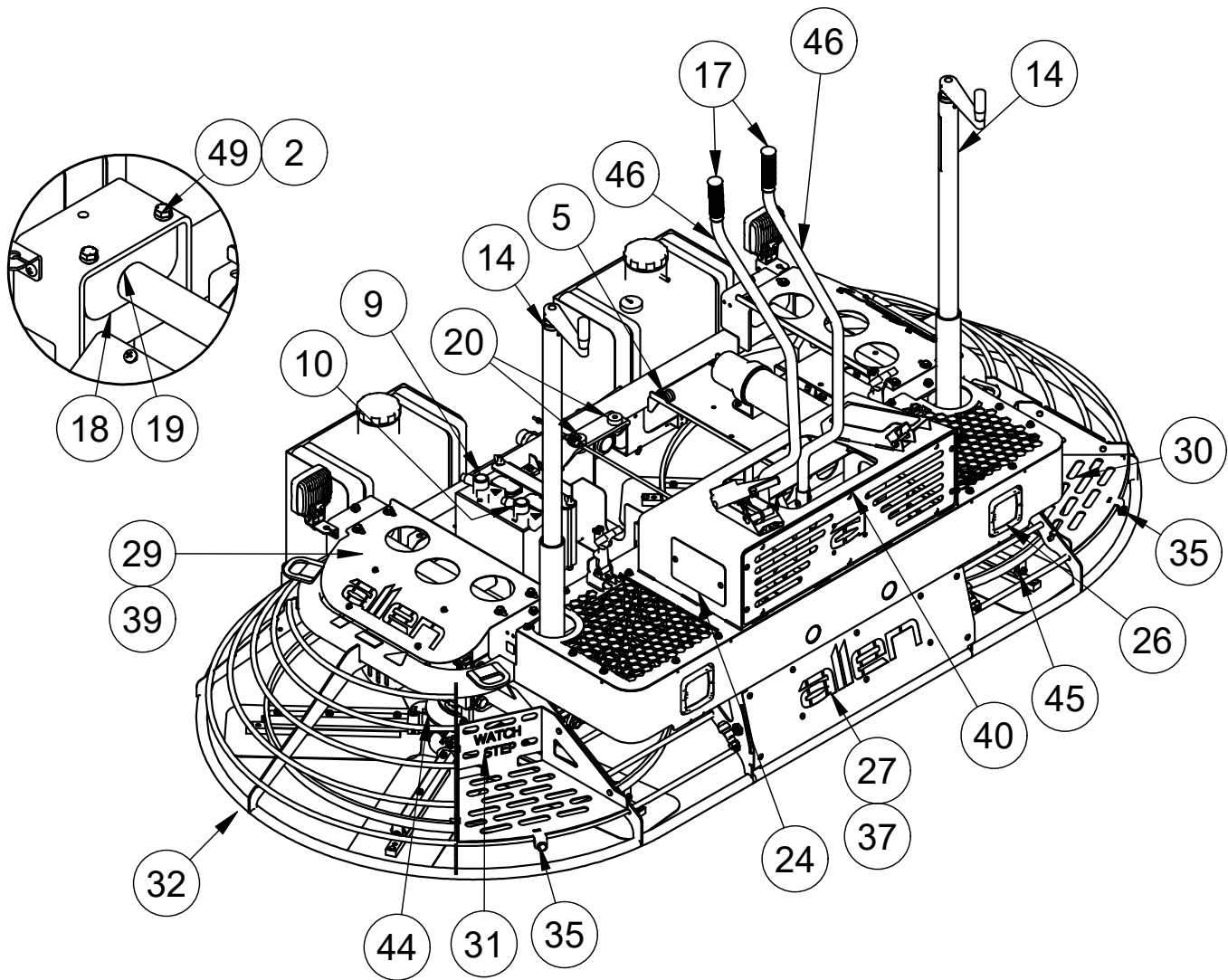


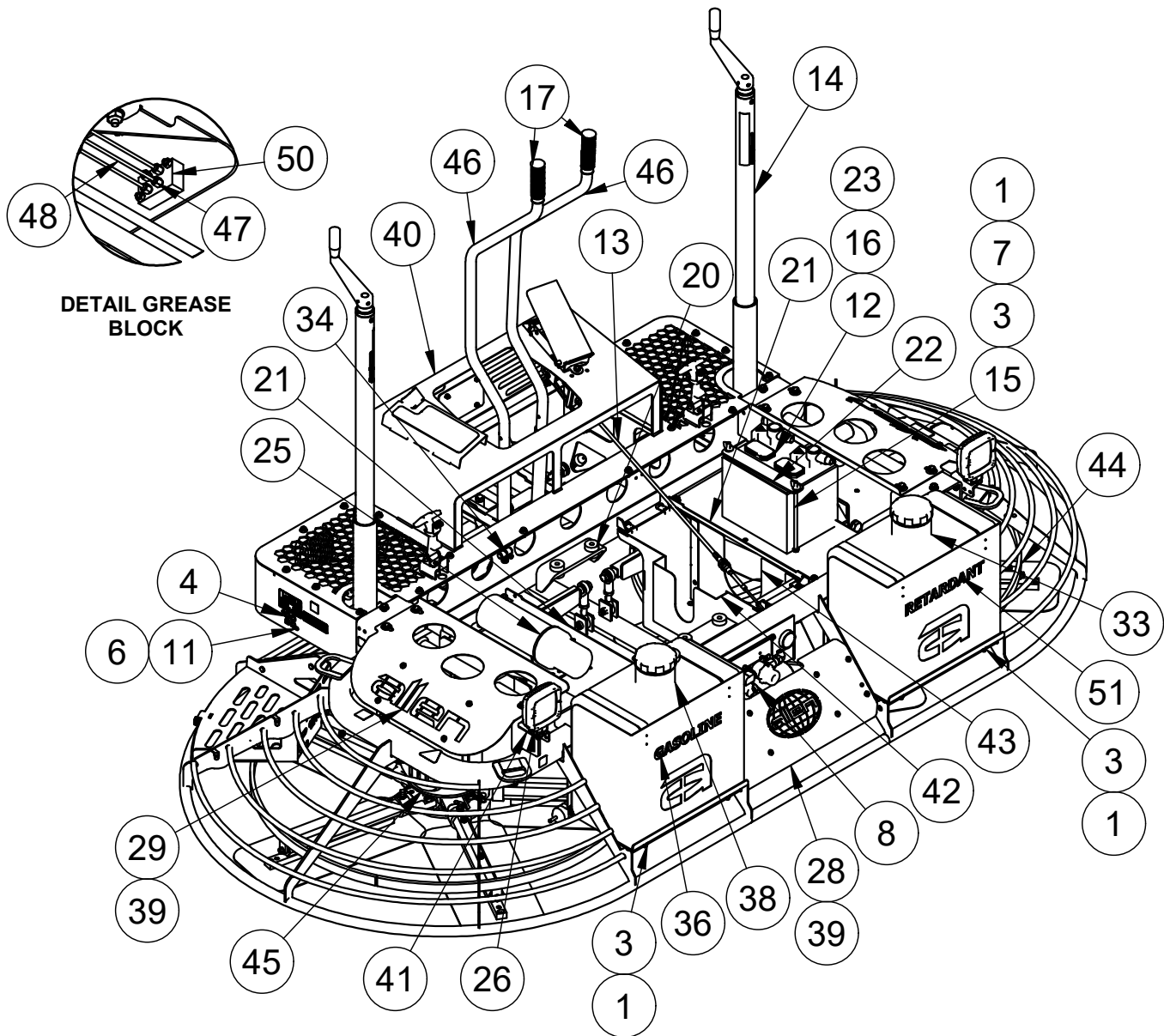
ITEM	PART #	DESCRIPTION	QTY
1	071060	ASSEMBLY, MAIN FRAME	1
2	071110	ASSEMBLY, SEAT FRAME	1
3	071982	ASSEMBLY, POWER UNIT	1
-	074397	ELECTRICAL HARNESS, FOR KOHLER ENGINE	1

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SECTION 1 PARTS

Main Frame Assembly (071060)





SECTION 1 PARTS

Main Frame Assembly (071060) Parts List

ITEM	PART NO.	DESCRIPTION	QTY
1	010090	FASTENER, LW 5/16	24
2	010091	FASTENER, LW 3/8	8
3	010100	FASTENER, NUT HEX 5/16-18	12
4	010513	FITTING, 1/4-28 STR GREASE	4
5	020604	CLIP, WIRE HOLDER	1
6	029568	FASTENER, HEX NUT NYLOCK 10-32	14
7	032106	FASTENER, WING NUT 5/16-18	2
8	033735	PUMP, SPRAY SYSTEM	1
9	035597	INSULATOR, POS BATT TERMINAL	1
10	035598	INSULATOR, NEG BATT TERMINAL	1
11	036791	FASTENER, SCREW 10-32 X 3/8	2
12	037771	BATTERY, 12 V 500CCA	1
13	037796	ASSEMBLY, 38" LG THROTTLE CABLE	1
14	038174	ASSEMBLY, PITCH CONTROL	2
15	047715	ROD, 5/16-18 BATTERY RETAINER 8-5/8" LONG	2
16	047730	CABLE, 4 AWG 32 LG POS BATTERY	1
17	048354	GRIP, SAT 3 Ø1 BLACK HANDLE	2
18	048559	BAR, BEARING HOUSING	4
19	048560	BEARING, Ø1 ID PLASTIC FLANGE	4
20	048901	MOUNT, ISOLATOR FOR MOTOR 250LB	4
21	048906	TRAY FOR BATTERY	2
22	048932	BAR, BATTERY HOLD DOWN	1
23	048976	CABLE, 35" LG NEGATIVE BATTERY	1
24	060492	PLATE, COVER TOP DECK SIDE	1
25	066255	MANUAL TUBE	1
26	069835	LIGHT, LED 1200 LUMENS 12 VDC (1.5 AMP)	4
27	071056	COVER FRONT CENTER FOR MSP445	1
28	071089	COVER REAR CENTER FOR MSP445	1
29	071094	COVER, RH CROSSHEAD MSP445	2
30	071099	STEP, LH FOR MSP445	1
31	071103	STEP, RH FOR MSP445	1
32	071125	WELDMENT, MAIN FRAME MSP445	1
33	071536	ASSEMBLY, RETARDANT TANK 7 GALLON	1
34	071599	FITTING, ONE TOUCH TEE 3/8" HOSE CONNECTION	1
35	071606	FASTENER, THUMB SCREW 1/4-20 X 1 3/4	2
36	072737	GUARD, FOR 7 GALLON GASOLINE TANK	1

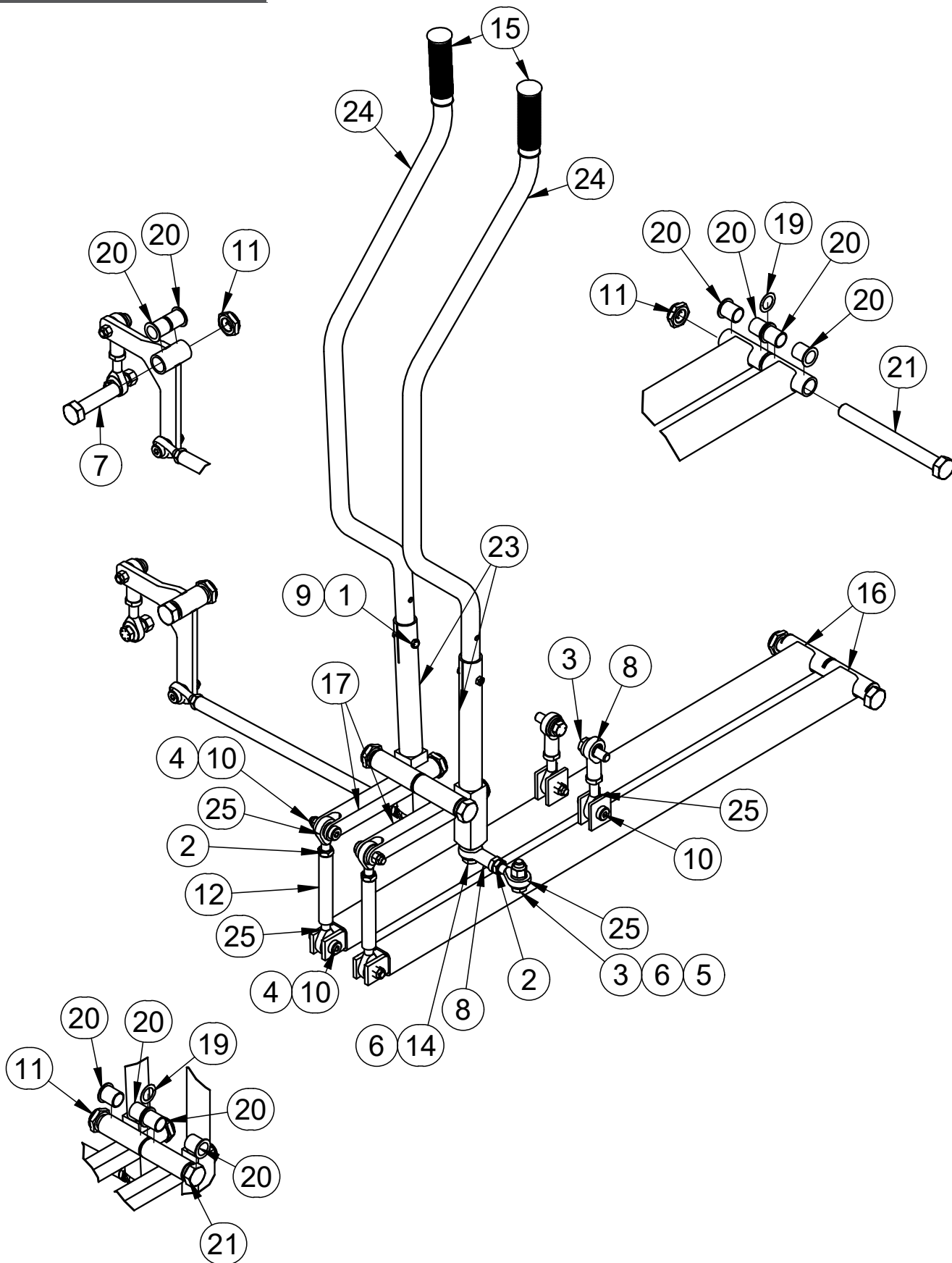
Main Frame Assembly (071060) Parts List Continued

SECTION 1 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
37	072739	PLATE, BACKER FOR FRONT NAME PLATE ON MSP445	1
38	072854	ASSEMBLY, FUEL TANK 7 GALLON	1
39	072856	PLATE, BACKER FOR EMBLEM PLATE RIDERS	3
40	073373	ASSEMBLY, FRONT DECK FOR MSP445 KOHLER	1
41	073392	BRACKET, REAR LIGHT FOR MSP445	2
42	073395	GUARD, BELT	1
43	073402	COVER, OUTER FOR BOTTOM CLUTCH COVER MSP445	1
44	073527	ASSEMBLY, RH ROTOR MSP445	1
45	073528	ASSEMBLY, LH ROTOR MSP445	1
46	073531	HANDLE, STEERING FOR MSP445	2
47	073815	FITTING, PUSH IN STRAIGHT FOR 4MM TUBING	4
48	073819	TUBING, 4 MM PLASTIC FOR GREASE LINE	15FT
49	074068	FASTENER, HHCS 3/8-16 X 1 W/ BLUE LOCTITE	8
50	074337	BLOCK, MANIFOLD GREASE PORTS	1
51	075422	GUARD, FOR 7 GALLON RETARDANT TANK	1

SECTION 1 PARTS

Steering System



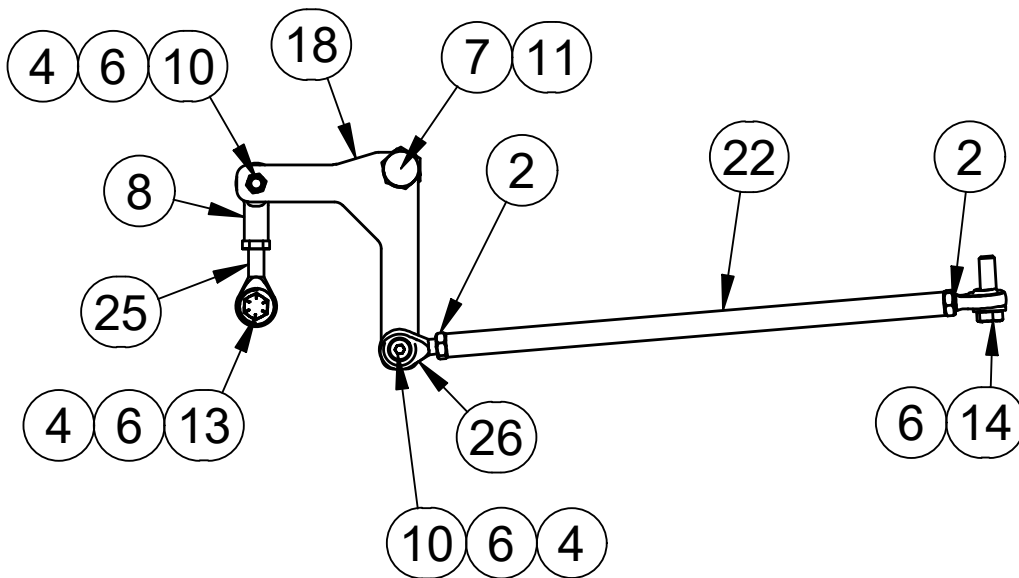
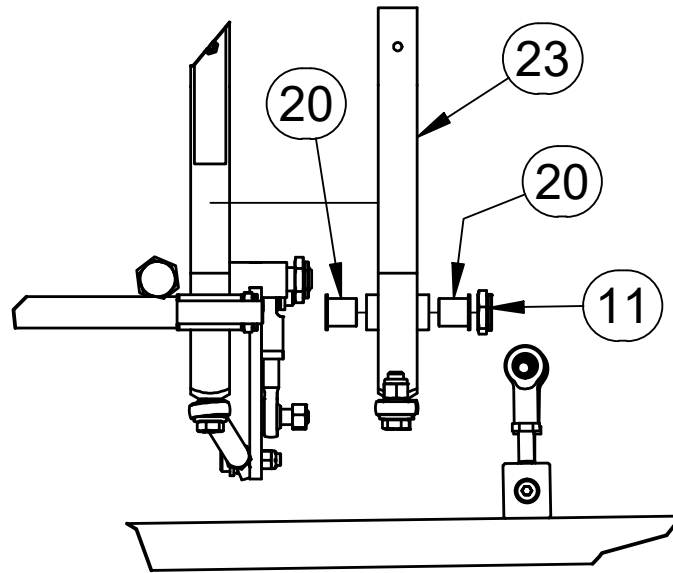
Steering System & Parts List

SECTION 1 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	010005	FASTENER, HHCS 1/4-20 X 1-1/2	2
2	010051	FASTENER, JAM HEX NUT 1/2-20	5
3	010069	FASTENER, HHCS 1/2-13 X 1-1/2	3
4	010464	FASTENER, NUT NYLOK 3/8-16	18
5	011238	FASTENER, HEX NUT NYLOK 1/2-13	1
6	011490	FASTENER, FW HARDENED 1/2	8
7	016510	FASTENER, HHCS 3/4-10 X 2 1/2	1
8	019900	ROD END, FEMALE 1/2-20	4
9	020542	FASTENER, HEX NUT STOVER 1/4-20	5
10	026267	FASTENER, SHCS 3/8-16 X Ø1/2 X 1 LG SHOULDER	8
11	026447	FASTENER, HEX NUT 3/4-10 SELFLOCK THIN HEX	5
12	046701	ARM, STEERING 4-1/2"	2
13	046846	FASTENER, HHCS 1/2-20 X 1-1/2	1
14	046864	FASTENER, HHCS 1/2-20 X 1-3/4	2
15	048354	GRIP, SAT 3 Ø1 BLACK HANDLE	2
16	048869	ARM, LOWER CONTROL	2
17	048894	WELDMENT, RIGHT HORIZONTAL CONTROL	2
18	048925	FULCRUM, L/R STEERING	1
19	048928	SHIM, 3/4 ID X 1-1/8 OD	2
20	048929	BEARING, Ø3/4 ID PLASTIC FLANGE	14
21	056636	FASTENER, HHCS 3/4-10 X 7 1/2	2
22	060882	SHAFT, 16" LONG STEERING LINKAGE	1
23	073530	STEERING SOCKET WELDMENT MSP445	2
24	073531	HANDLE, STEERING FOR MSP445	2
25	221408	ROD END, MALE 1/2-20	10

SECTION 1 PARTS

Steering System Continued



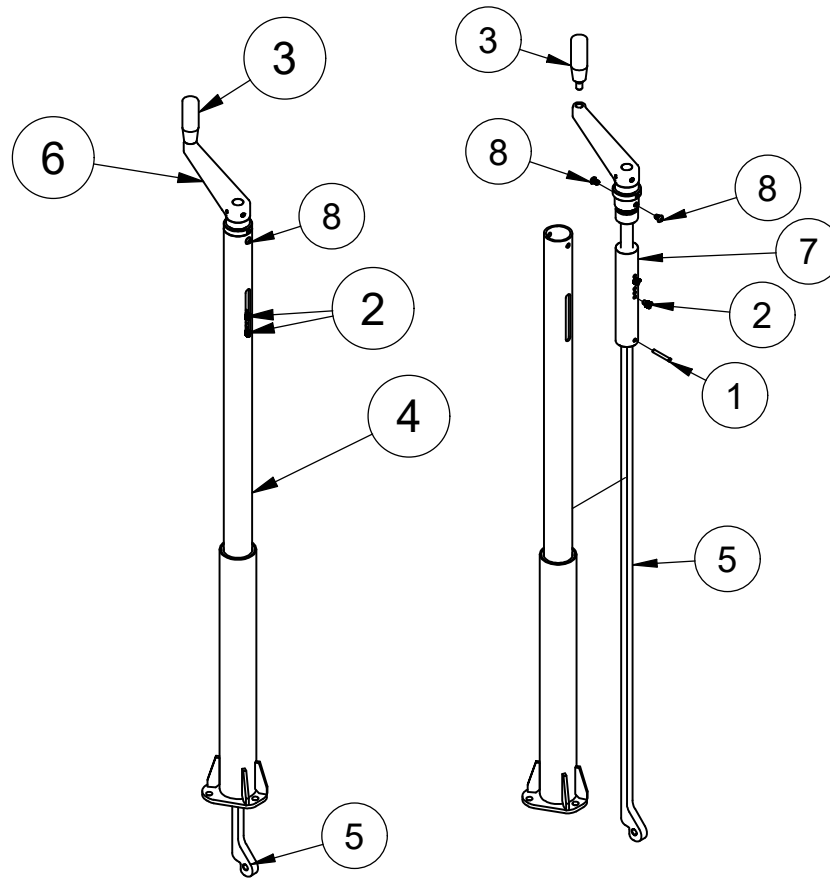
Steering System & Parts List

SECTION 1 PARTS

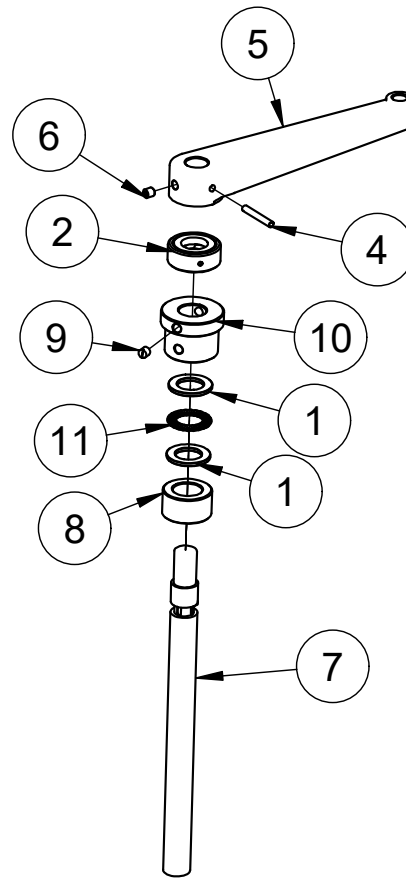
ITEM	PART NO.	DESCRIPTION	QTY
1	010005	FASTENER, HHCS 1/4-20 X 1-1/2	2
2	010051	FASTENER, JAM HEX NUT 1/2-20	5
3	010069	FASTENER, HHCS 1/2-13 X 1-1/2	3
4	010464	FASTENER, NUT NYLOCK 3/8-16	18
5	011238	FASTENER, HEX NUT NYLOCK 1/2-13	1
6	011490	FASTENER, FW HARDENED 1/2	8
7	016510	FASTENER, HHCS 3/4-10 X 2 1/2	1
8	019900	ROD END, FEMALE 1/2-20	4
9	020542	FASTENER, HEX NUT STOVER 1/4-20	5
10	026267	FASTENER, SHCS 3/8-16 X Ø1/2 X 1 LG SHOULDER	8
11	026447	FASTENER, HEX NUT 3/4-10 SELFLOCK THIN HEX	5
12	046701	ARM, STEERING 4-1/2"	2
13	046846	FASTENER, HHCS 1/2-20 X 1-1/2	1
14	046864	FASTENER, HHCS 1/2-20 X 1-3/4	2
15	048354	GRIP, SAT 3 Ø1 BLACK HANDLE	2
16	048869	ARM, LOWER CONTROL	2
17	048894	WELDMENT, RIGHT HORIZONTAL CONTROL	2
18	048925	FULCRUM, L/R STEERING	1
19	048928	SHIM, 3/4 ID X 1-1/8 OD	2
20	048929	BEARING, Ø3/4 ID PLASTIC FLANGE	14
21	056636	FASTENER, HHCS 3/4-10 X 7 1/2	2
22	060882	SHAFT, 16" LONG STEERING LINKAGE	1
23	073530	STEERING SOCKET WELDMENT MSP445	2
24	073531	HANDLE, STEERING FOR MSP445	2
25	221408	ROD END, MALE 1/2-20	10

SECTION 1 PARTS

Pitch Control Assembly (038174)



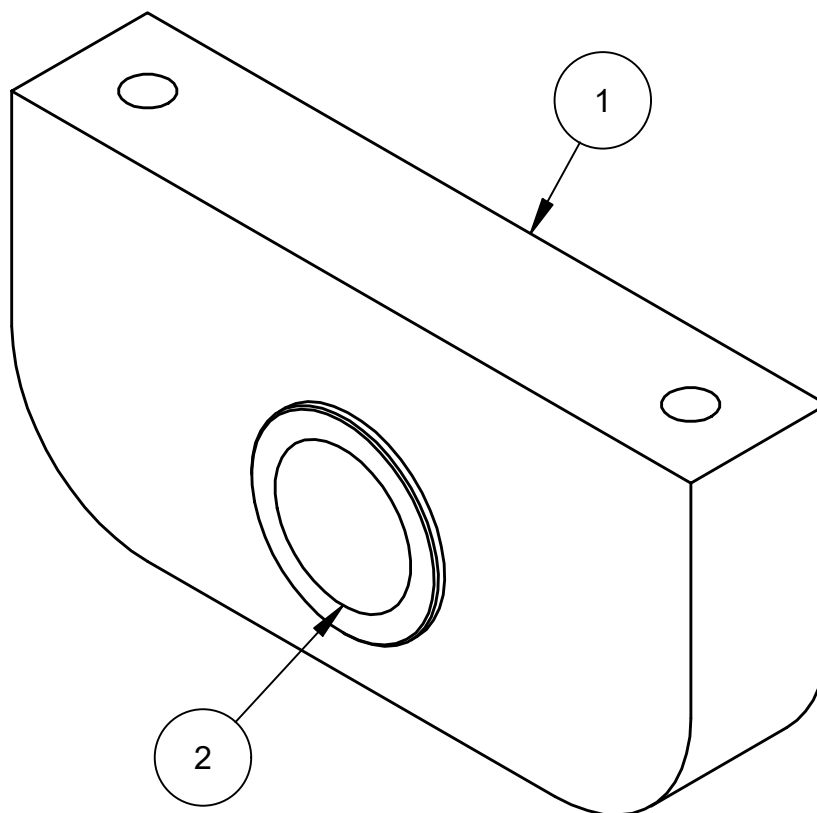
ITEM	PART NO.	DESCRIPTION	QTY
1	015747	PIN, ROLL 3/16 X 1-3/8 SPIRAL	1
2	015768	FASTENER, SHCS 1/4-20 X 1/4	2
3	032115	KNOB, PITCH CONTROL HANDLE	1
4	038176	WELDMENT, VANG AND KOH PITCH CONT TUBE	1
5	038178	PLATE, PITCH ROD 37 5/16 X 1/2	1
6	061529	CRANK HANDLE AND SCREW SHAFT ASSY, LONG	1
7	075902	BUSHING, SLIDE PITCH CONTROL	1
8	078505	FASTENER, SCREW HEX DRIVE 1/4"-20 X 3/8, SS THREAD LOCKING	2



ITEM	PART NO.	DESCRIPTION	QTY
1	012710	THRUST BEARING RACE	2
2	015742	BEARING FINE PITCH CONTROL THRUST W/ LUB HOLE	1
3	026541	CRANK HANDLE AND SCREW SHAFT ASSY	1
6	013374	SET SCREW, 1/4-28 X 1/4	1
4	018289	FASTENER, SPRING ROLL 3/16 X 1-1/4	1
7	029997	SHAFT, SCREW CABLE ADJ	1
5	037693	HANDLE, CRANK F/ PITCH CONTROL	1
8	032191	STOP, F/ PITCH CONTROL HANDLE	1
9	036797	BALL PLUNGER, 1/4-20 X 1/4 WITH LOCKING PATCH	2
10	036914	BUSHING, CABLE ASSY - RIDERS	1
11	100340	THRUST BEARING	1

SECTION 1 PARTS

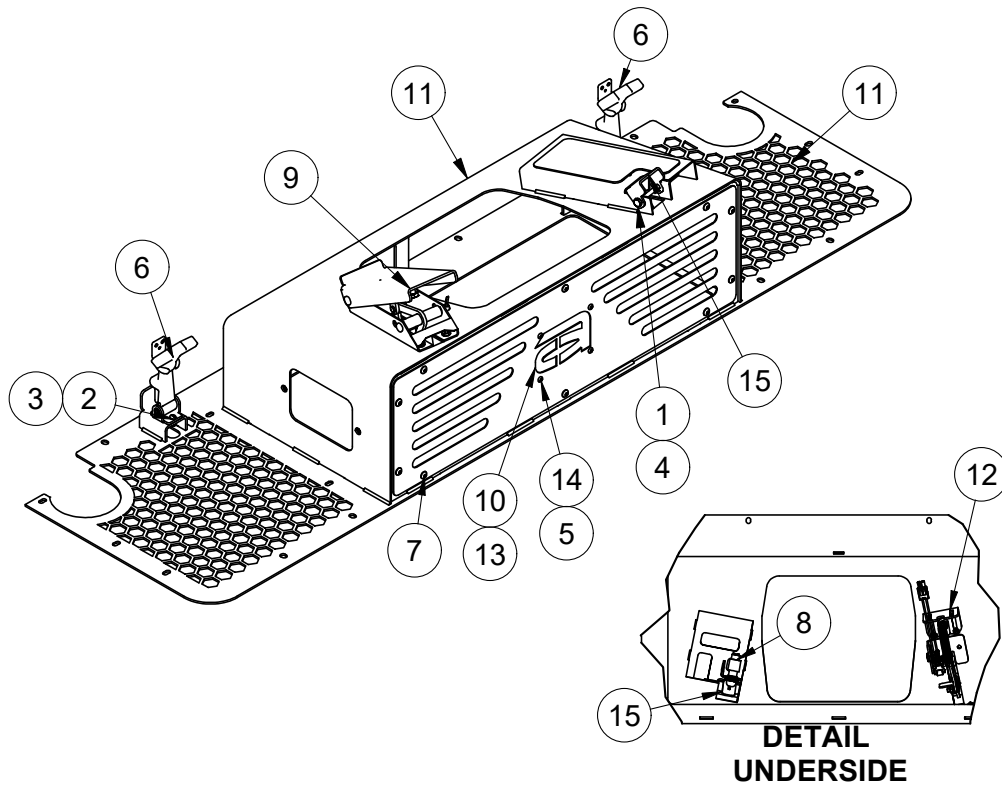
Bearing Block Assembly (048561)



ITEM	PART NO.	DESCRIPTION	QTY
1	048559	BLOCK, BEARING HOUSING FOR CROSSHEAD	1
2	048560	BEARING, Ø1 ID PLASTIC FLANGE	1

Front Deck Assembly (073373)

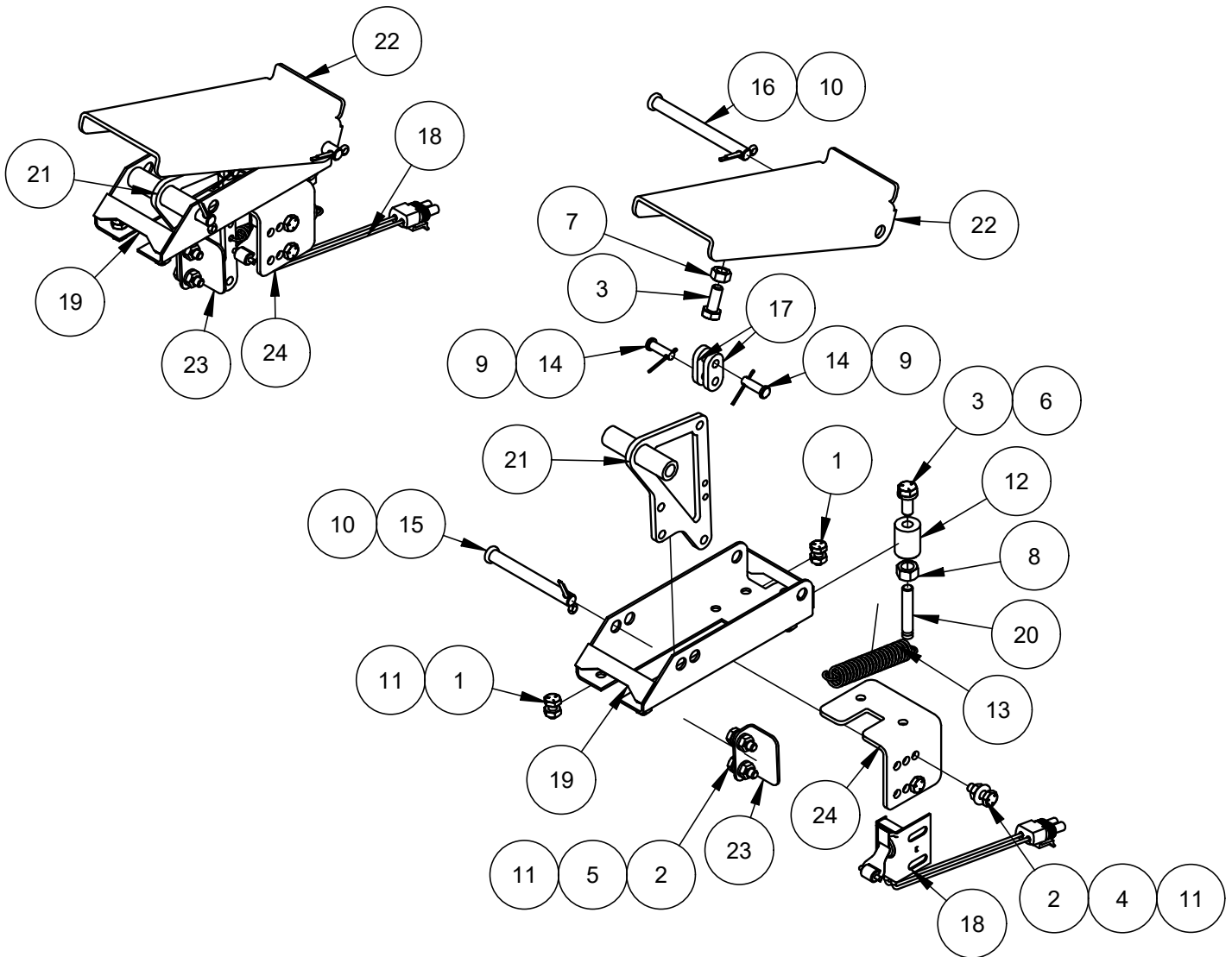
SECTION 1 PARTS



ITEM	PART NO.	DESCRIPTION	QTY
1	010009	FASTENER, HHCS 1/4-20 X 2 1/2	1
2	010568	FASTENER, SCREW 10-32 X 1/2	4
3	029568	FASTENER, HEX NUT 10-32 NYLOCK	4
4	029671	FASTENER, HEX NUT 1/4-20 NYLOCK	1
5	039100	FASTENER, HEX NUT NYLOCK 8-32	4
6	042260	LATCH, T-HANDLE EXTRA-LARGE DRAW	2
7	042343	FASTENER, SFBHCS 1/4"-20 X 3/4	10
8	068956	SWITCH, MOMENTARY	1
9	071050	ASSEMBLY, FOOT PEDAL THROTTLE MSP455/445 (KOHLER)	1
10	071074	COVER FRONT, DECK	1
11	071140	UPPER DECK WELDMENT FOR MSP445	1
12	072773	THROTTLE BRKT, LOWER FOR MSP445/455	1
13	074535	PLATE, BACKING FOR SMALL SYMBOL RED	1
14	074537	FASTENER, SCREW 8-32 PAN HEAD X 1/2" STAINLESS STEEL BLACK OXIDE	4
15	076300	WELDMENT, PEDAL SPRAY SWITCH FOR RIDERS	1

SECTION 1 PARTS

Throttle Pedal and Kill Switch (071050) for Kohler



Throttle Pedal and Kill Switch (071050) Parts List

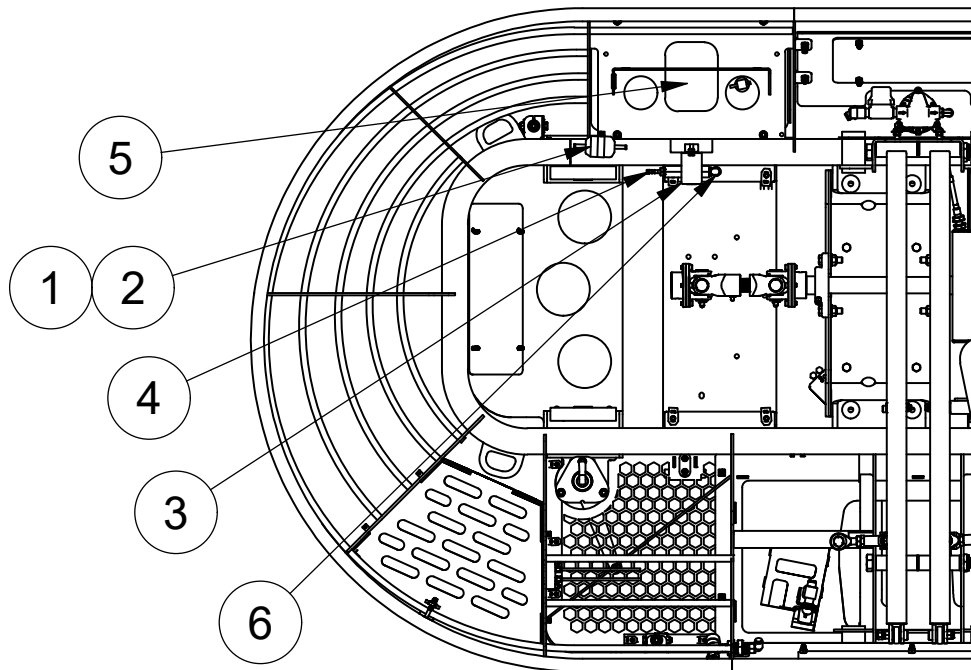
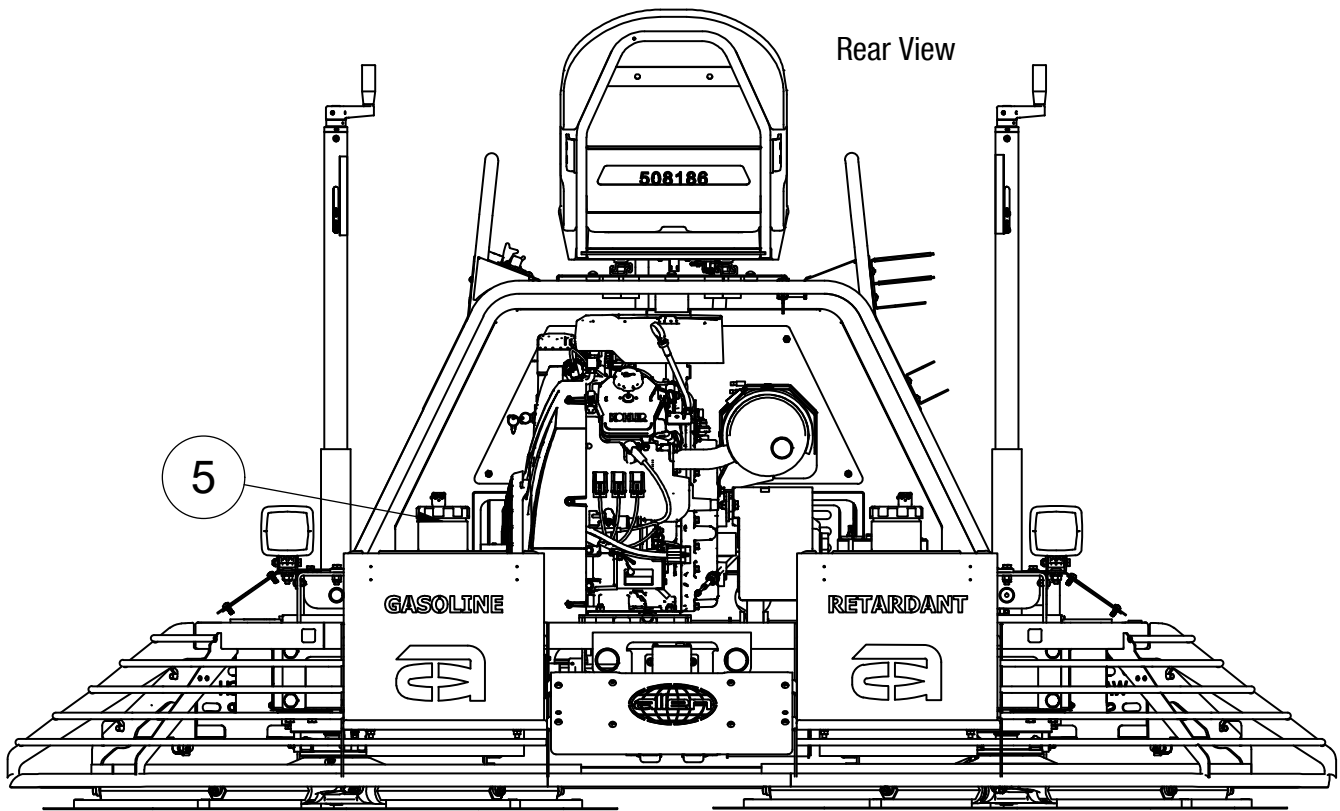
SECTION 1 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	010001	FASTENER, HHCS 1/4-20 X 1/2	4
2	010002	FASTENER, HHCS 1/4-20 X 3/4	4
3	010019	FASTENER, HHCS 5/16-18 X 3/4	2
4	010081	FASTENER, FW 1/4	2
5	010089	FASTENER, LW 1/4	4
6	010090	FASTENER, LW 5/16	1
7	010100	FASTENER, NUT HEX 5/16-18	1
8	010102	FASTENER, NUT HEX 3/8-16	1
9	010131	PIN, COTTER Ø1/16 X 1	2
10	012361	PIN, COTTER Ø1/8 X 1	2
11	020542	FASTENER, HEX NUT STOVER 1/4-20	8
12	024842	BOSS, FOOT SPEED	1
13	024981	EXTENSION SPRING	1
14	024982	FASTENER, PIN CLEVIS 1/4 X 51/64	2
15	024983	FASTENER, PIN CLEVIS 3/8 X 3-1/4	1
16	028895	FASTENER, PIN CLEVIS 3/8 X 3 3/4	1
17	040246	SHACKLE, 1-1/4" FOOT SPEED SHORT	2
18	046742	SWITCH, ROLLER ACT ANGLE MNT LIMIT	1
19	071052	WELDMENT, BASE FOOT THROTTLE	1
20	071055	PIN, SPRING FOOT SPEED	1
21	072858	THROTTLE LINK, FOR THROTTLE ASSEMBLY	1
22	072859	ASSEMBLY, FOOT SPEED PEDAL	1
23	073371	BRACKET, STRIKER FOR KILL SWITCH FOR FOOT SPEED	1
24	073372	BRACKET, SWITCH MOUNT FOR KILL SWITCH AT FOOT SPEED	1

SECTION 1 PARTS

Fuel System (Kohler)

Rear View



UNDERSIDE

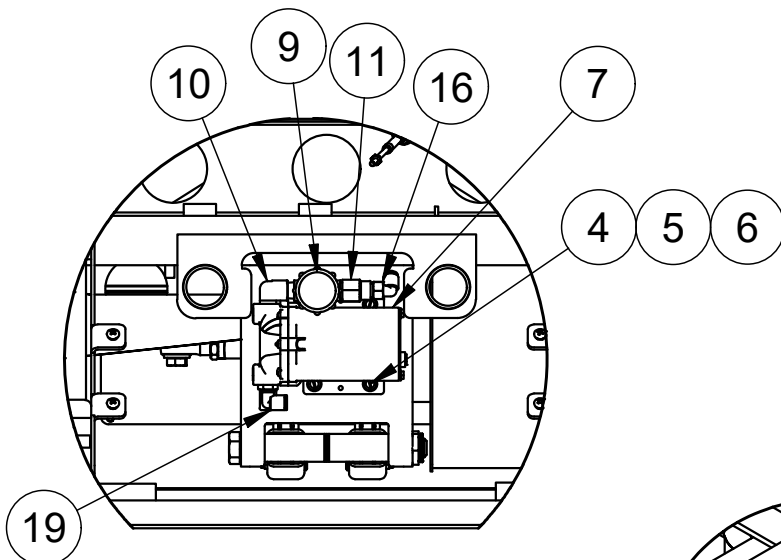
Fuel System (Kohler) Parts List

SECTION 1 PARTS

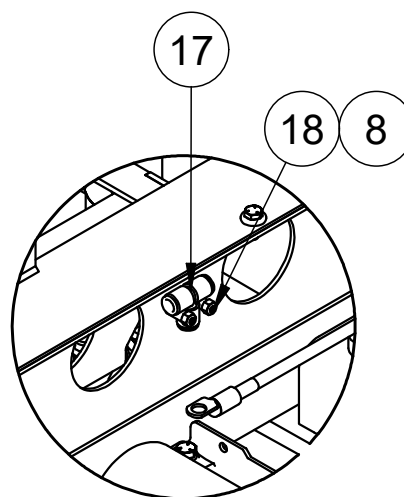
ITEM	PART NO.	DESCRIPTION	QTY
1	048963	STRAP, GAS FILTER	1
2	057993	FILTER, FUEL	1
3	060915	ELECTRIC FUEL PUMP	1
4	069211	BARBED HOSE FITTING, 1/4 X 1/8 NPT, STEEL	1
5	072854	TANK, 7 GALLON GAS, EPA, W/CAP	1
6	072877	FITTING, 1/4" X 1/8" STAINLESS STEEL BARB ELBOW	1

SECTION 1 PARTS

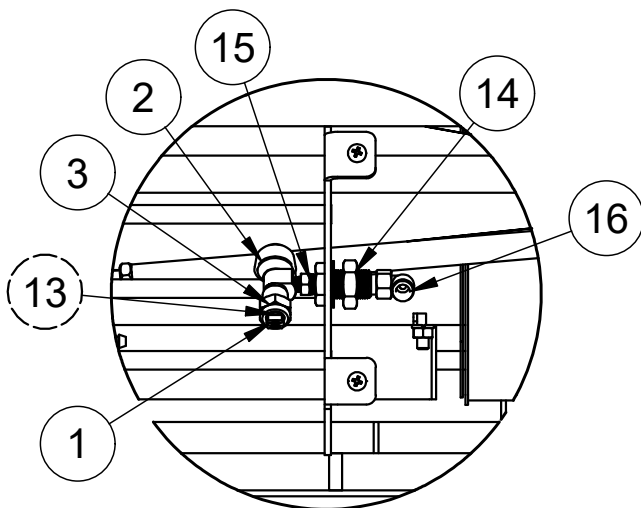
Spray System



**DETAIL SPRAY
PUMP**



**DETAIL SPRAY
TEE FITTING**



**DETAIL SPRAY
NOZZLE**

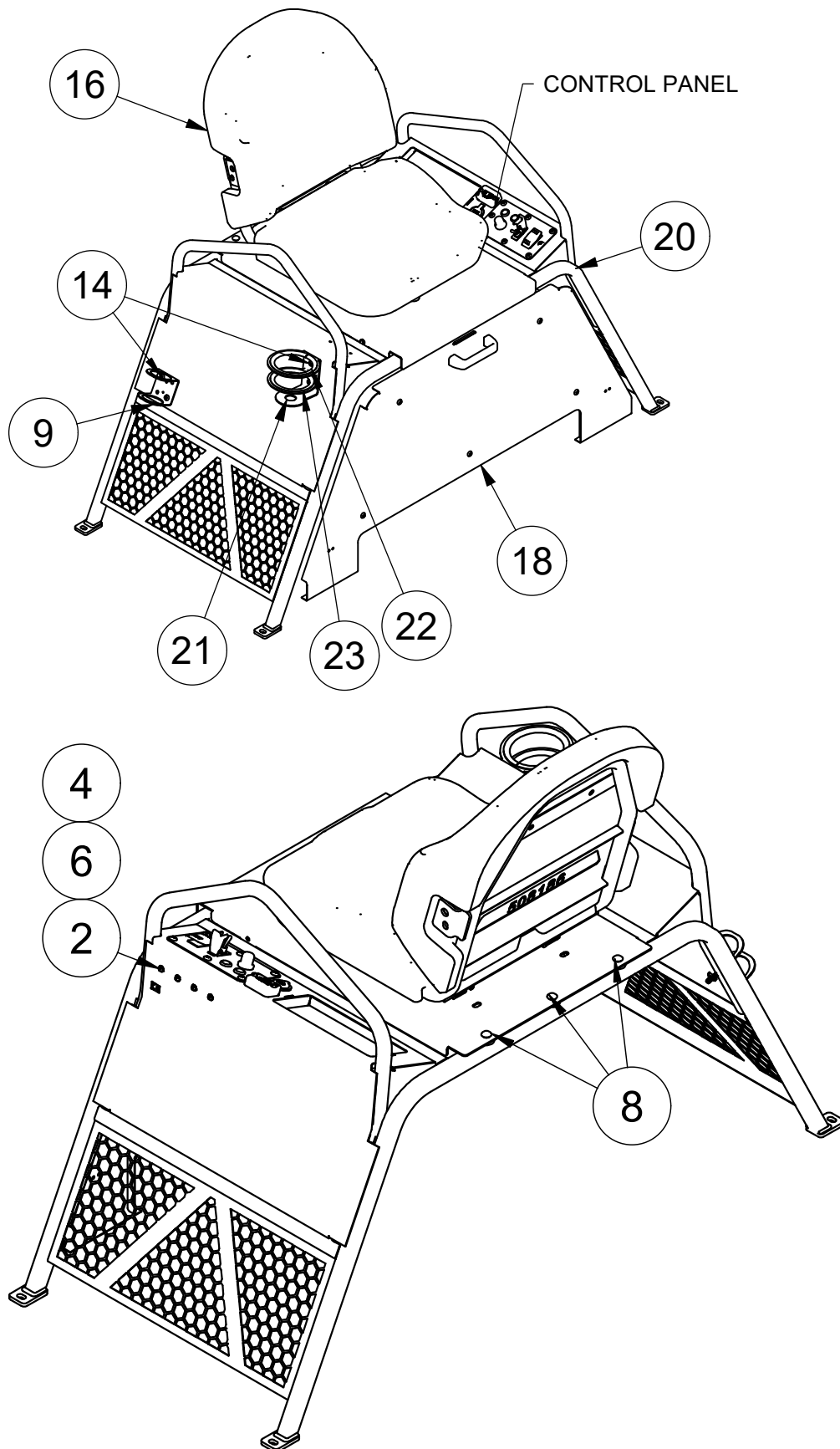
Spray System Parts List

SECTION 1 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	012702	TIP, 80° X 0.10 GPM BRASS SPRAY	2
2	012704	BODY, BRASS CHECK VALVE NOZZLE	2
3	012705	RETAINER, BRASS SPRAY TIP	2
4	016382	SCREW, 10-32 X 3/8	4
5	018072	FASTENER, FW #10	4
6	029568	FASTENER, HEX NUT 10-32 NYLOCK	14
7	033735	PUMP, SPRAY SYSTEM	1
8	039100	FASTENER, HEX NUT NYLOCK 8-32	6
9	040209	FILTER, RETARDANT SPRAY SYSTEM	1
10	040387	FITTING, ELBOW 3/8 BRASS 90° STREET	1
11	040388	FITTING, 3/8X1/4 BRASS FM TO FM REDUCER	1
12	048246	TUBING, 3/8" FOR WATER LINE (NOT SHOWN)	12FT
13	065244	STRAINER, POLY 50 MICRON MESH, W/ CHECK VALVE	2
14	071016	FITTING, BULK HEAD BRASS 1/4" NPT	2
15	071017	FITTING, REDUCING HEX NIPPLE 1/4" TO 1/8" NPT	2
16	071596	FITTING, ONE TOUCH ELBOW 1/4" NPT TO 3/8" HOSE CONNECTION	3
17	071599	FITTING, ONE TOUCH TEE 3/8" HOSE CONNECTION	1
18	073283	FASTENER, HSCS 8-32 X 1" LONG ZINC PLATED	2
19	078110	FITTING, ONE TOUCH ELBOW 3/8" NPT MALE TO 3/8" HOSE CONNECTION	1

SECTION 1 PARTS

Seat Frame Assembly (071110)



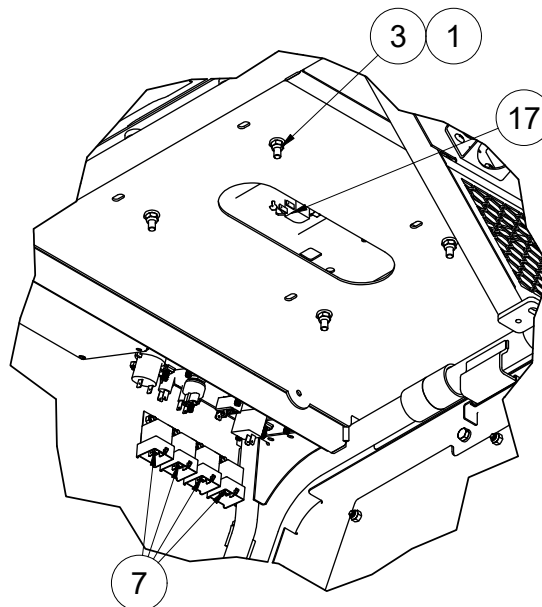
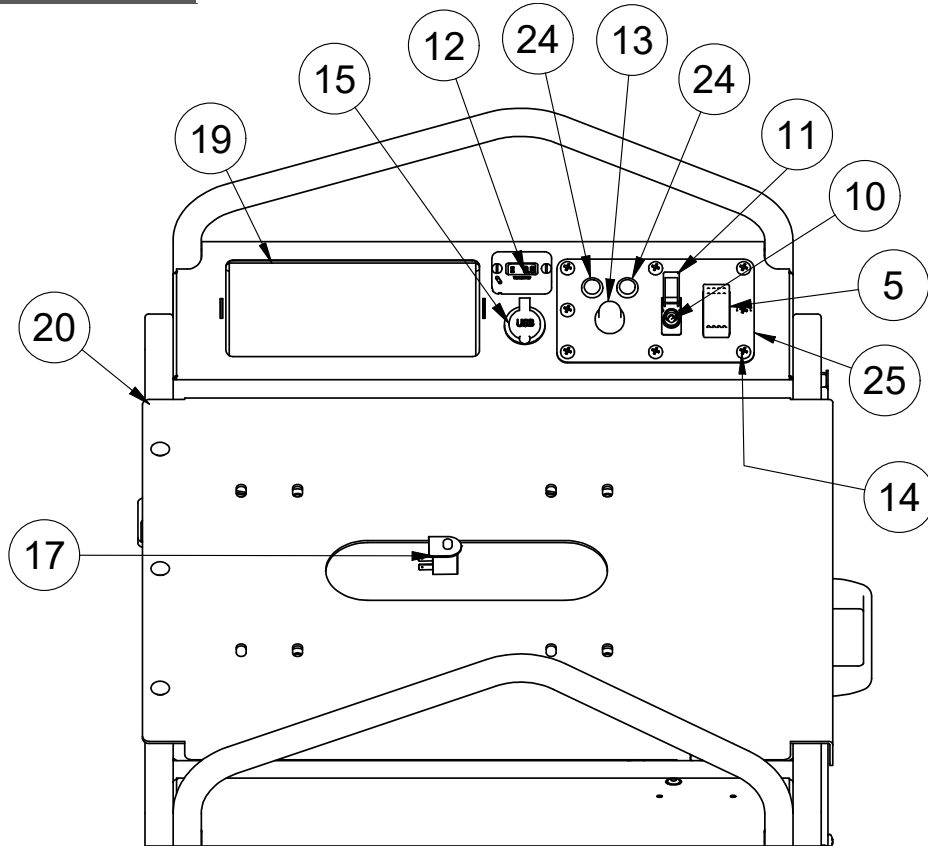
Seat Frame Assembly (071110) Parts List

SECTION 1 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	010082	FASTENER, FW 5/16	4
2	010568	FASTENER, SCREW 10-32 X 1/2	4
3	012612	FASTENER, NUT HEX NYLOCK 5/16-18	4
4	029568	FASTENER, HEX NUT 10-32 NYLOCK	6
5	032125	ROCKER SWITCH	1
6	032358	FASTENER, LW NO. 10 EXT TOOTH	4
7	047052	RELAY, 12 V 30/50 A W/RES SHROUD	4
8	047665	RUBBER BUMPER	3
9	049632	TOOL HOLDER BRKT	1
10	050603	SWITCH TOGGLE, ON/OFF 12VDC	1
11	050604	COVER, TOGGLE SAFETY	1
12	064386	METER, TACH/HOUR INDUCTIVE, F/EFI	1
13	068956	SWITCH, MOMINTARY	1
14	069737	FASTENER, SCREW PAN HEAD 1/4-20 X 3/4	12
15	069850	USB RECEPTICEL 12VDC	1
16	069874	SEAT, RIDER	1
17	071032	SWITCH, FOR 069874 SEAT - NORMALLY CLOSED	1
18	071066	FRONT SCREEN ASSEMBLY MSP 445/455	1
19	071106	RUBBER, CELL HOLDER TRAY	1
20	071111	SEAT FRAME WMNT MSP445	1
21	071120	METAL CUP HOLDER FOR RIDE-ON TROWELS	1
22	071123	RUBBER TRIM CUT 12 500" LONG FOR TOP SECTION OF CUP HOLDER (USE 071122)	1
23	071124	RUBBER TRIM CUT 10.500" LONG FOR MIDDLE SECTION OF CUP HOLDER (USE 071122)	1
24	073948	LIGHT, RED LED FLUSH PANEL MNT. SNAP-IN FOR 5/8" HOLE	2
25	074025	PANEL, ENGINE CONTROL MSP445 SEAT FRAME ASSEMBLY	1

SECTION 1 PARTS

Seat Frame Assembly (071110) Continued



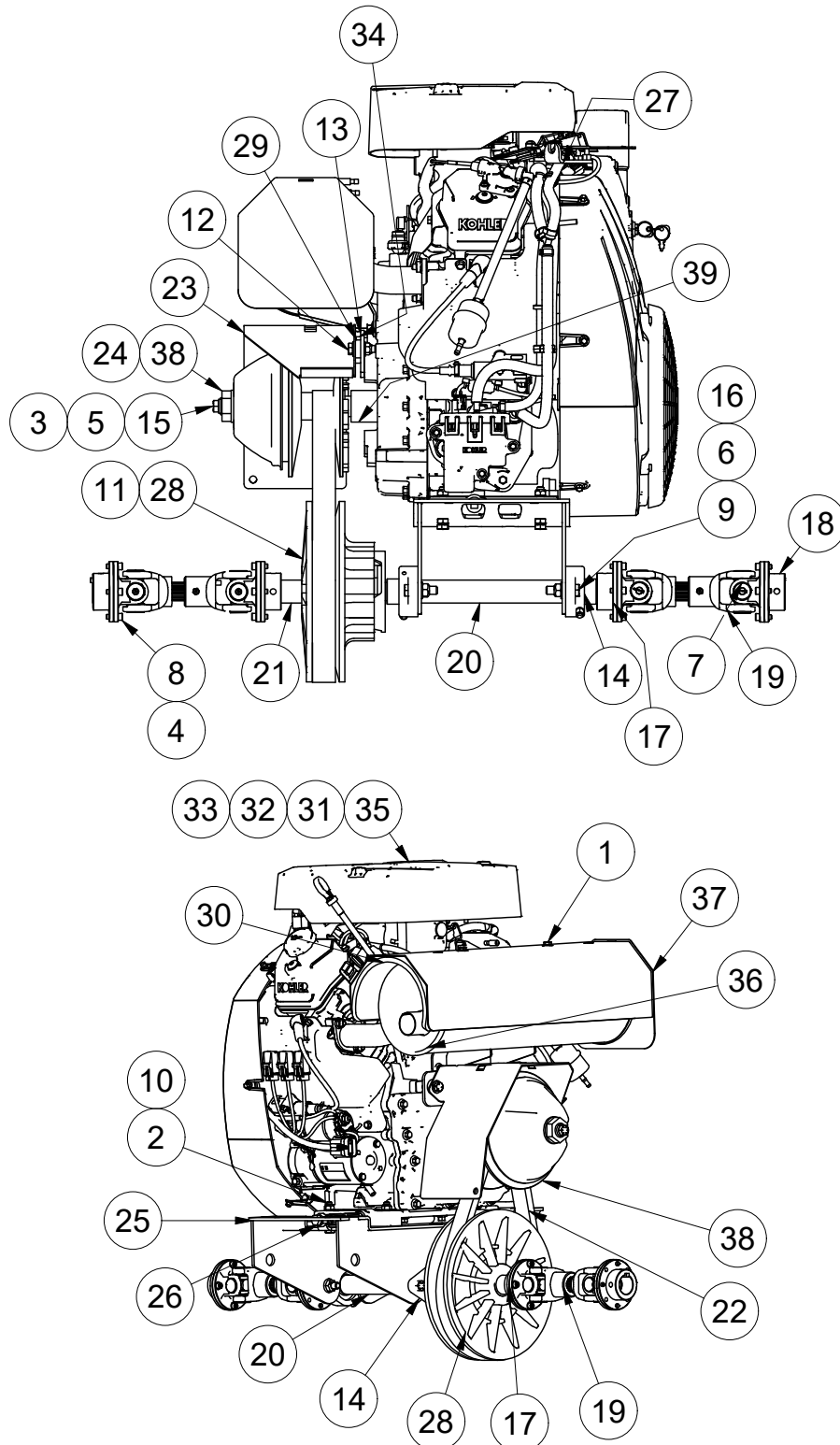
Seat Frame Assembly (071110) Parts List

SECTION 1 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	010082	FASTENER, FW 5/16	4
2	010568	FASTENER, SCREW 10-32 X 1/2	4
3	012612	FASTENER, NUT HEX NYLOCK 5/16-18	4
4	029568	FASTENER, HEX NUT 10-32 NYLOCK	6
5	032125	ROCKER SWITCH	1
6	032358	FASTENER, LW NO. 10 EXT TOOTH	4
7	047052	RELAY, 12 V 30/50 A W/RES SHROUD	4
8	047665	RUBBER BUMPER	3
9	049632	TOOL HOLDER BRKT	1
10	050603	SWITCH TOGGLE, ON/OFF 12VDC	1
11	050604	COVER, TOGGLE SAFETY	1
12	064386	METER, TACH/HOUR INDUCTIVE, F/EFI	1
13	068956	SWITCH, MOMENTARY	1
14	069737	FASTENER, SCREW PAN HEAD 1/4-20 X 3/4	12
15	069850	USB RECEPTACLE 12VDC	1
16	069874	SEAT, RIDER	1
17	071032	SWITCH, FOR 069874 SEAT - NORMALLY CLOSED	1
18	071066	FRONT SCREEN ASSEMBLY MSP 445/455	1
19	071106	RUBBER, CELL HOLDER TRAY	1
20	071111	SEAT FRAME WMNT MSP445	1
21	071120	METAL CUP HOLDER FOR RIDE-ON TROWELS	1
22	071123	RUBBER TRIM CUT 12 500" LONG FOR TOP SECTION OF CUP HOLDER (USE 071122)	1
23	071124	RUBBER TRIM CUT 10.500" LONG FOR MIDDLE SECTION OF CUP HOLDER (USE 071122)	1
24	073948	LIGHT, RED LED FLUSH PANEL MNT. SNAP-IN FOR 5/8" HOLE	2
25	074025	PANEL, ENGINE CONTROL MSP445 SEAT FRAME ASSEMBLY	1

SECTION 1 PARTS

Power Unit Assembly (071982)



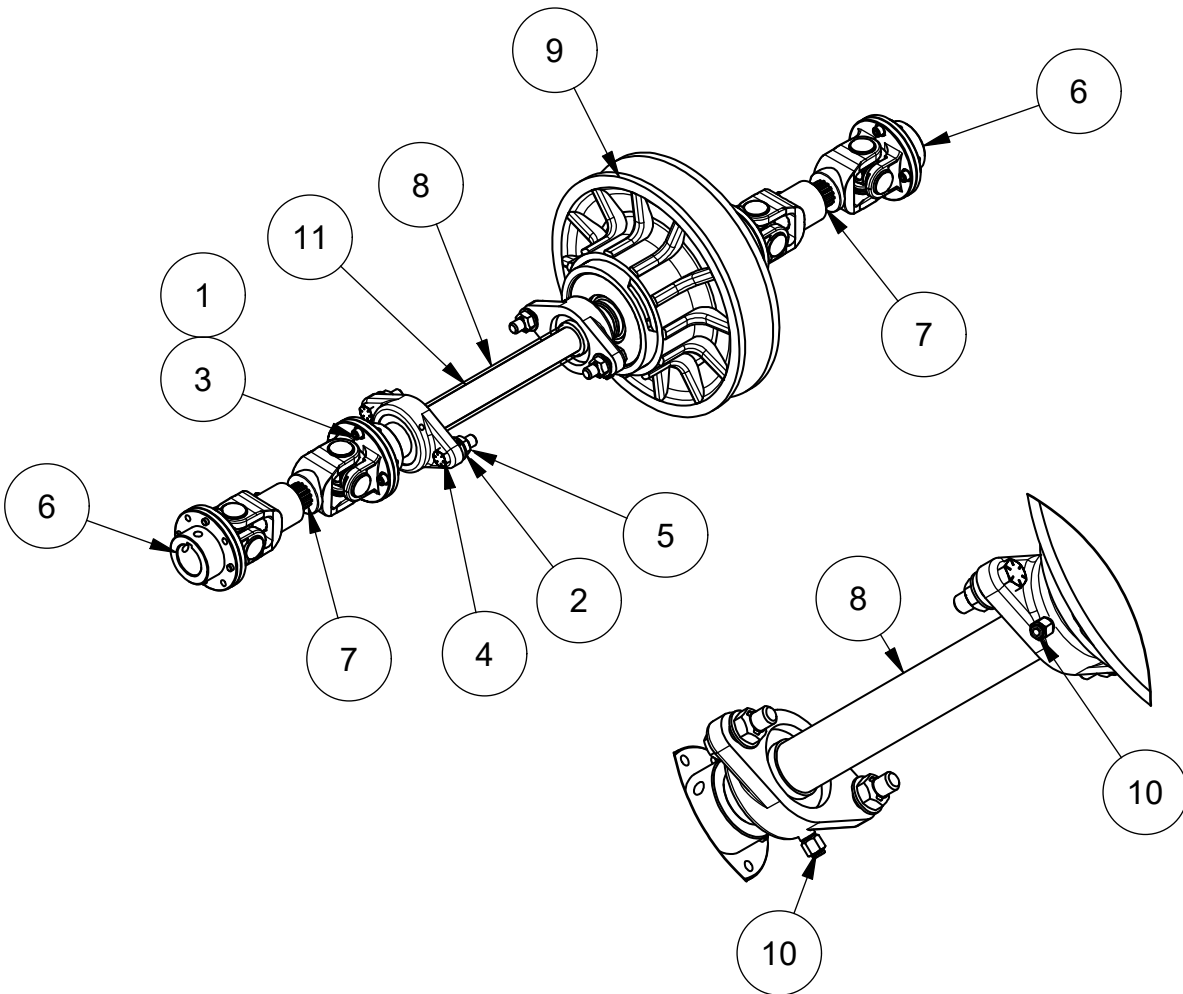
Power Unit Assembly (071982) Parts List

SECTION 1 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	010002	FASTENER, HHCS 1/4-20 X 3/4	2
2	010039	FASTENER, HHCS 3/8-16 X 1 3/4	4
3	010084	FASTENER, FW 7/16	1
4	010089	FASTENER, LW 1/4	18
5	010092	FASTENER, LW 7/16 GR 8	1
6	010096	FASTENER, FW 7/16	4
7	011791	KEY, 1/4 SQ X 1	4
8	017314	FASTENER, SHCS 1/4-20 X 5/8	16
9	017898	FASTENER, HHCS 7/16-20 X 1-1/2	4
10	020514	FASTENER, HEX NUT STOVER LOCK 3/8-16	6
11	026992	KEY, 1/4 X 3 1/8	1
12	032875	FASTENER, HHCS 3/8-16 X 1-1/4	2
13	033638	BRACKET, CLUTCH GUARD F/ KOHLER	1
14	039136	BEARING, 1" FLANGED 2 BOLT ECCENTRIC COLLAR	2
15	042280	FASTENER, HHCS 7/16-20x4-1/2	1
16	047477	FASTENER, HEX NUT STOVER 7/16-20	4
17	047635	HUB, Ø1 BORE U-JOINT CENTER SHAFT	2
18	047636	HUB, Ø1.25 BORE GEARBOX SHAFT	2
19	047637	ASSEMBLY, U-JOINT TELESCOPING	2
20	048810	SPACER, DRIVEN PULLEY POSITIONING	1
21	048908	SPACER, 1-1/8" DRIVEN PULLEY POSITION	1
22	051332	BELT, CVT	1
23	053136	CVT COVER, MSP445	1
24	053210	KEY, 3/16 X 1/4 X 2	1
25	053308	WELDMENT, ENGINE PLATE	1
26	053334	HOSE, DRAIN F/ KOHLER	1
27	053385	THROTTLE BRKT	1
28	053389	PULLEY, DRIVEN MSP445	1
29	056470	BUSHING, NITRILE	2
30	056938	HEAT WRAP, 14"X20"	1
31	057991	FILTER, AIR PRIMARY KOHLER ECH980	1
32	057992	FILTER, AIR PRE-CLEANER KOHLER ECH980	1
33	057994	FILTER, OIL FOR KOHLER ECH980	1
34	065694	FASTENER, HHCS 7/16-14x1	2
35	065825-1	ENGINE, KOHLER ECH980	1
36	065875	MUFFLER, LH	1
37	072755	MUFFLER GUARD, FOR MSP445/455 EFI	1
38	073310	CVT, DRIVER FOR MSP445/455	1
39	075129	SPACER, INNER FOR CVT	1

SECTION 1 PARTS

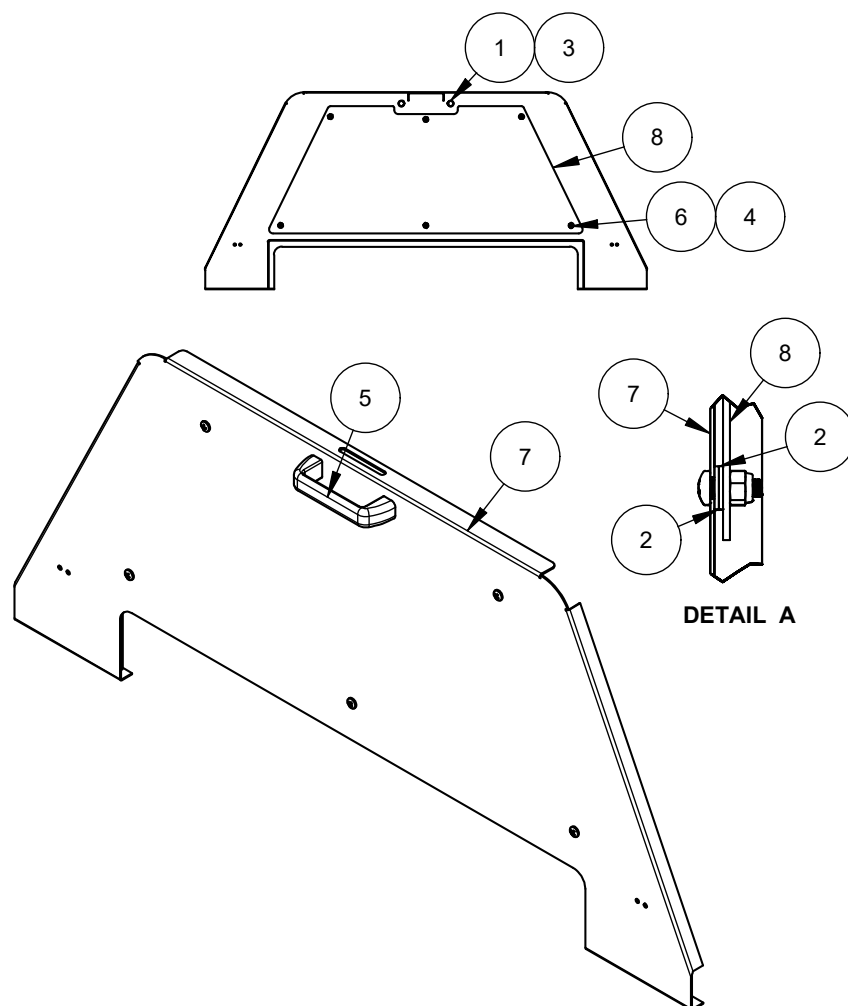
Power Unit Continued, Drive-line Assembly



ITEM	PART NO.	DESCRIPTION	QTY
1	010089	FASTENER, LW 1/4	18
2	010096	FASTENER, FW 7/16	4
3	017314	FASTENER, SHCS 1/4-20 X 5/8	16
4	017898	FASTENER, HHCS 7/16-20 X 1-1/2	4
5	047477	FASTENER, HEX NUT STOVER 7/16-20	4
6	047636	HUB, Ø1.25 BORE GEARBOX SHAFT	2
7	047637	ASSEMBLY, U-JOINT TELESCOPING	2
8	048810	SPACER, DRIVEN PULLEY POSITIONING	1
9	053389	PULLEY, MSP445	1
10	073817	FITTING, STRAIGHT PUSH-IN FOR 4MM TUBING 1/8 NPT	2
11	075219	SHAFT, DRIVE	1

Front Screen Assembly (071066)

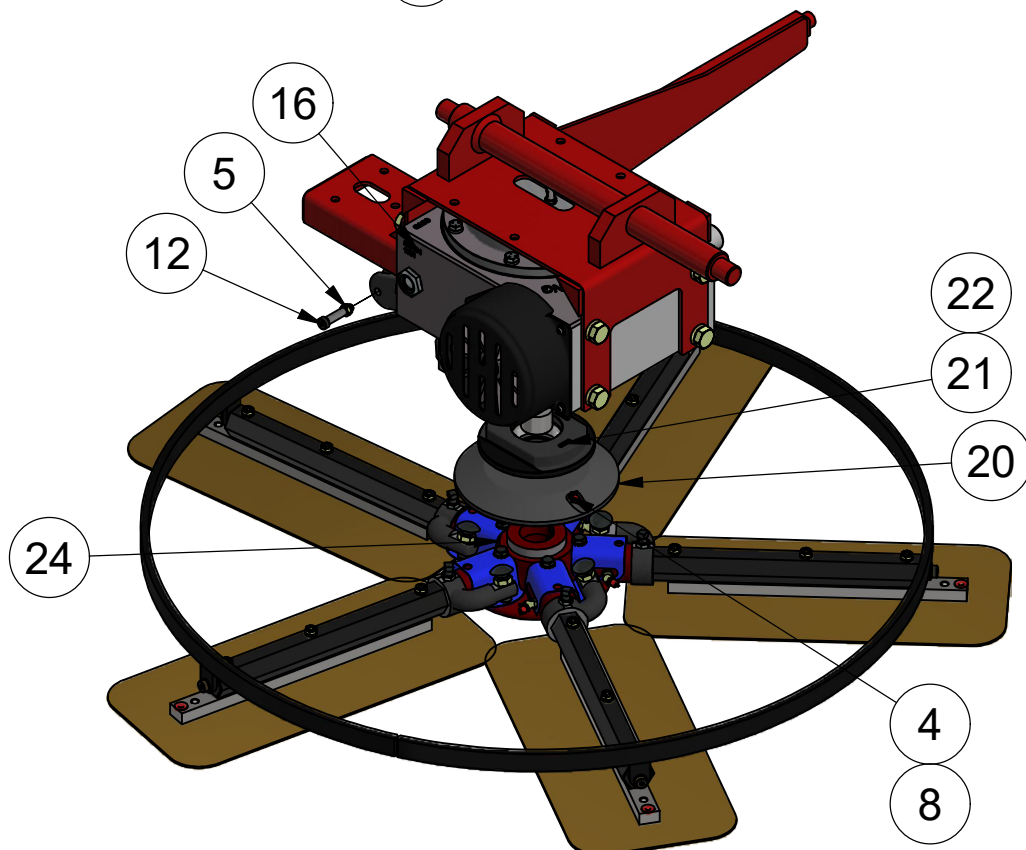
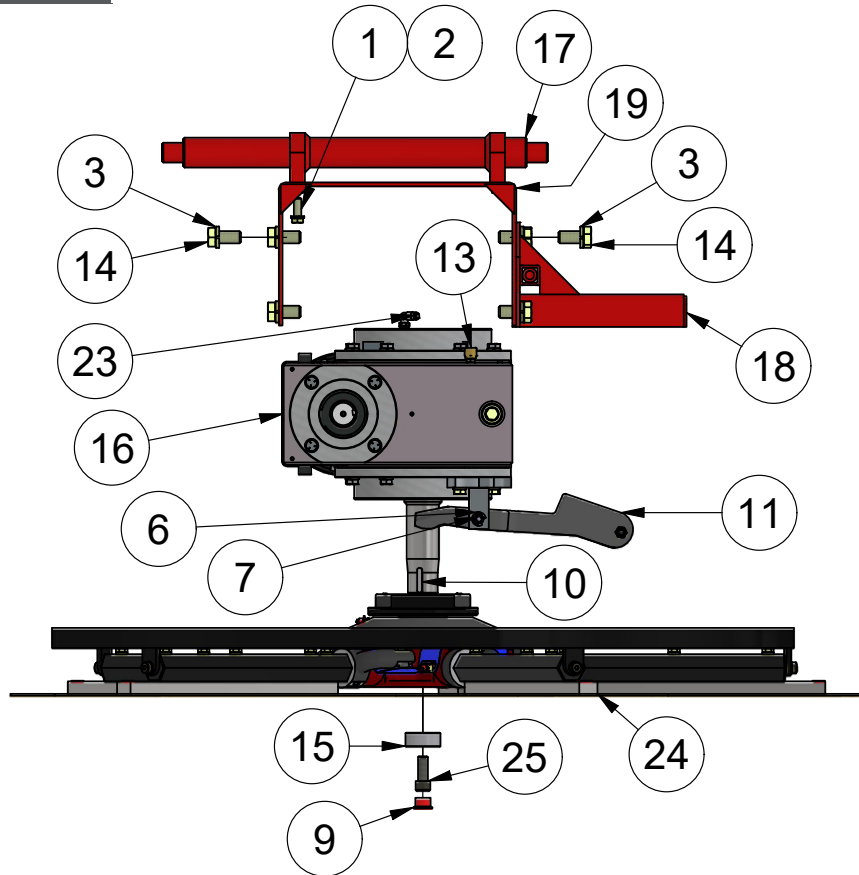
SECTION 1 PARTS



ITEM	PART NO.	DESCRIPTION	QTY
1	010018	FASTENER, HHCS 5/16 -18 X 1/2	2
2	010081	FASTENER, FW 1/4	12
3	010090	FASTENER, LW 5/16	2
4	029671	FASTENER, HEX NUT NYLOCK 1/4-20	6
5	048678	HANDLE, LOAD RATED NYLON	1
6	069737	FASTENER, SCREW PAN HEAD 1/4-20 X 3/4 ZINC PLATED	6
7	071067	WELDMENT, FRONT SCREEN	1
8	080400	PLATE, HEAT SHIELD F/ FRONT SCREEN	1

SECTION 1 PARTS

Left Hand Rotor Assembly (073528)



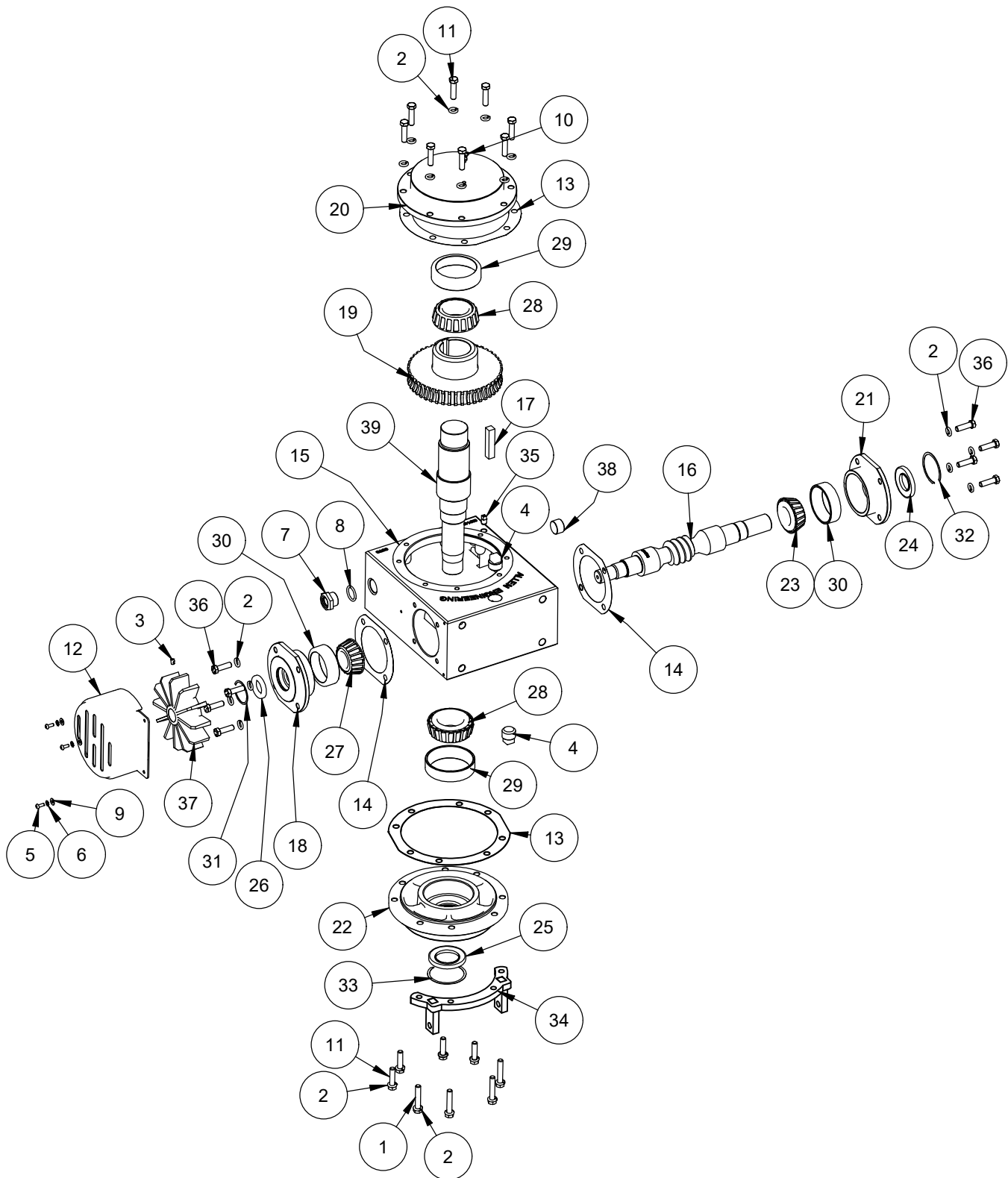
LH Rotor Assembly (073528) Parts List

SECTION 1 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	010036	FASTENER, HHCS 3/8-16 X 1	4
2	010091	FASTENER, LW 3/8	4
3	010095	FASTENER, LW 5/8	8
4	010513	FITTING, 1/4-28 STR GREASE	1
5	012612	FASTENER, NUT HEX NYLOCK 5/16-18	1
6	015677	RING, Ø7/16 E-STYLE RETAINING	2
7	015678	PIN, YOKE ARM	1
8	015692	CAP, Ø1/4 RED GREASE	6
9	015693	PLUG, PLASTIC CAP	1
10	015696	KEY, 0.25x1.25 LG HARD RAD	1
11	026215	ARM, YOKE	1
12	026504	FASTENER, SHCS 5/16-18x1/2xØ3/8x1-1/4 SHLDR	1
13	029529	VALVE, RELIEF 1/8-27 NPT	1
14	036787	FASTENER, HHCS 5/8-11 X 1 1/4	8
15	037652	WASHER, RETAINING	1
16	037654	GEARBOX, 20:1 RATIO LH	1
17	048966	WELDMENT, 2-WAY CROSSHEAD	1
18	064210	STEERING ARM WMNT, LH	1
19	064632	WELDMENT, CROSSHEAD GEARBOX MOUNT	1
20	073522	PRESSURE PLATE FOR SEALED BEARING	1
21	073523	CAP, PRESSURE PLATE	1
22	073524	BEARING, 50MM DEEP GROOVE BALL BEARING	1
23	074094	FITTING, 90 DEGREE 4MM TUBE X 1/4-28 SWIVEL	1
24	079266	ASSEMBLY, SPIDER LH MSP445	1
25	079363	FASTENER, SHCS 1/2-13 X 1-1/4 RH	1

SECTION 1 PARTS

Left Hand Gearbox Assembly (037654)



NOTES:

1. The shim thicknesses are established at the factory, call customer service for the appropriate replacement size.

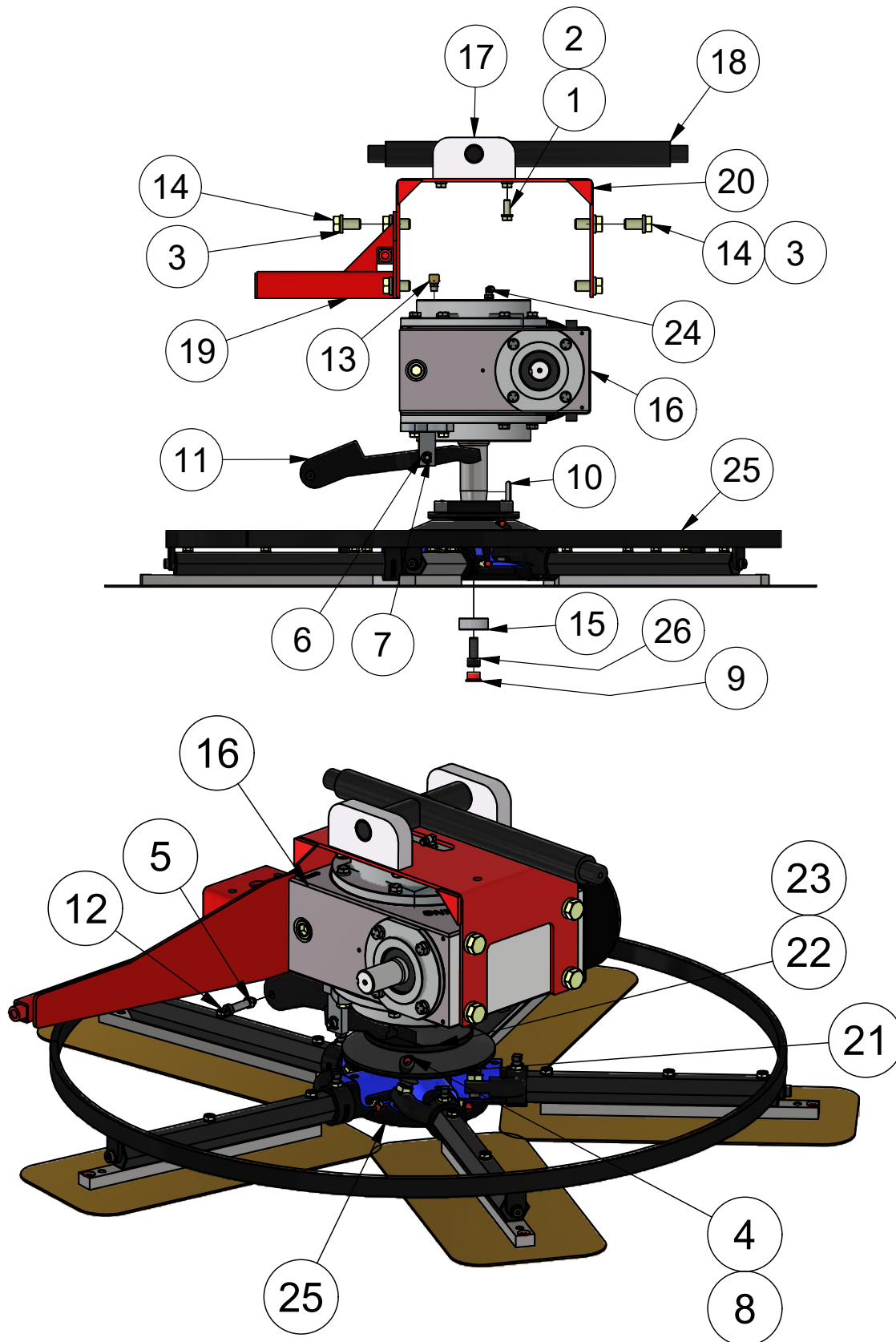
LH Gearbox Assembly (037654) Parts List

SECTION 1 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	010040	FASTENER, HHCS 3/8-16 X 2	4
2	010091	FASTENER, LW 3/8	24
3	012869	FASTENER, SET SCREW 1/4-20 X 3/8	1
4	012953	PLUG, 3/4 NPTF SQ HEAD	2
5	013484	FASTENER, SCREW 10-24 X 1/2	3
6	013740	FASTENER, LW STAR #10	3
7	015672	GAUGE, 3/4-14 NPT PORTHOLE VIEW	1
8	015673	O-RING, 15/16 X 1-3/16 X 1/8 BUNA	1
9	018072	FASTENER, FW #10	3
10	018510	FITTING, 1/4-28 NPT 45° GREASE	1
11	028402	FASTENER, HHCS 3/8-16 x 1-1/2	12
12	028703	SHROUD, FAN GEARBOX SHD	1
13	028914-XX	SHIM, (GENERIC) LGE GEARBOX CVR	AS REQ
14	028915-XX	SHIM, (GENERIC) LGE GEARBOX FLG	AS REQ
15	029143	CASE, SHD GEARBOX	1
16	029145	SHAFT, COUNTER RH SHD	1
17	029146	KEY, GEARBOX SQ 1/2 X 2.500	1
18	029147	FLANGE, GEARBOX SHD	1
19	029149	GEAR, 20:1 LH BRONZE	1
20	029150	CAP, SHD GEARBOX LARGE	1
21	029154	CAP, SHD GEARBOX END	1
22	029155	CAP, BOTTOM GEARBOX SHD	1
23	029178	BEARING, Ø1.4375 BORE TAPERED	1
24	029179	SEAL, Ø1.375 RADIAL SHAFT OIL	1
25	029180	SEAL, Ø1.875 RADIAL SHAFT OIL	1
26	029181	SEAL, Ø1.125 RADIAL SHAFT OIL	1
27	029182	BEARING, Ø1.3125 BORE TAPERED	1
28	029183	BEARING, Ø2 BORE TAPERED	2
29	029184	CUP, Ø3-43/64 TPR ROLLER BRG	2
30	029272	CUP, Ø3 TPR ROLLER BRG	2
31	032713	RING, Ø1.827 RETAINING	1
32	032714	RING, Ø2.478 RETAINING	1
33	032715	RING, Ø2.857 RETAINING	1
34	032716	BRACKET, SD GEARBOX	1
35	032745	PLUG, 1/8 NPT RED	1
36	032875	FASTENER, HHCS 3/8-16 X 1-1/4	8
37	034541	FAN, SHD GEARBOX	1
38	035327	PLUG, 3/4-14 NPTF HOLLOW HEX	1
39	037650	SHAFT, MAIN RH SHD GEARBOX	1

SECTION 1 PARTS

Right Hand Rotor Assembly (073527)

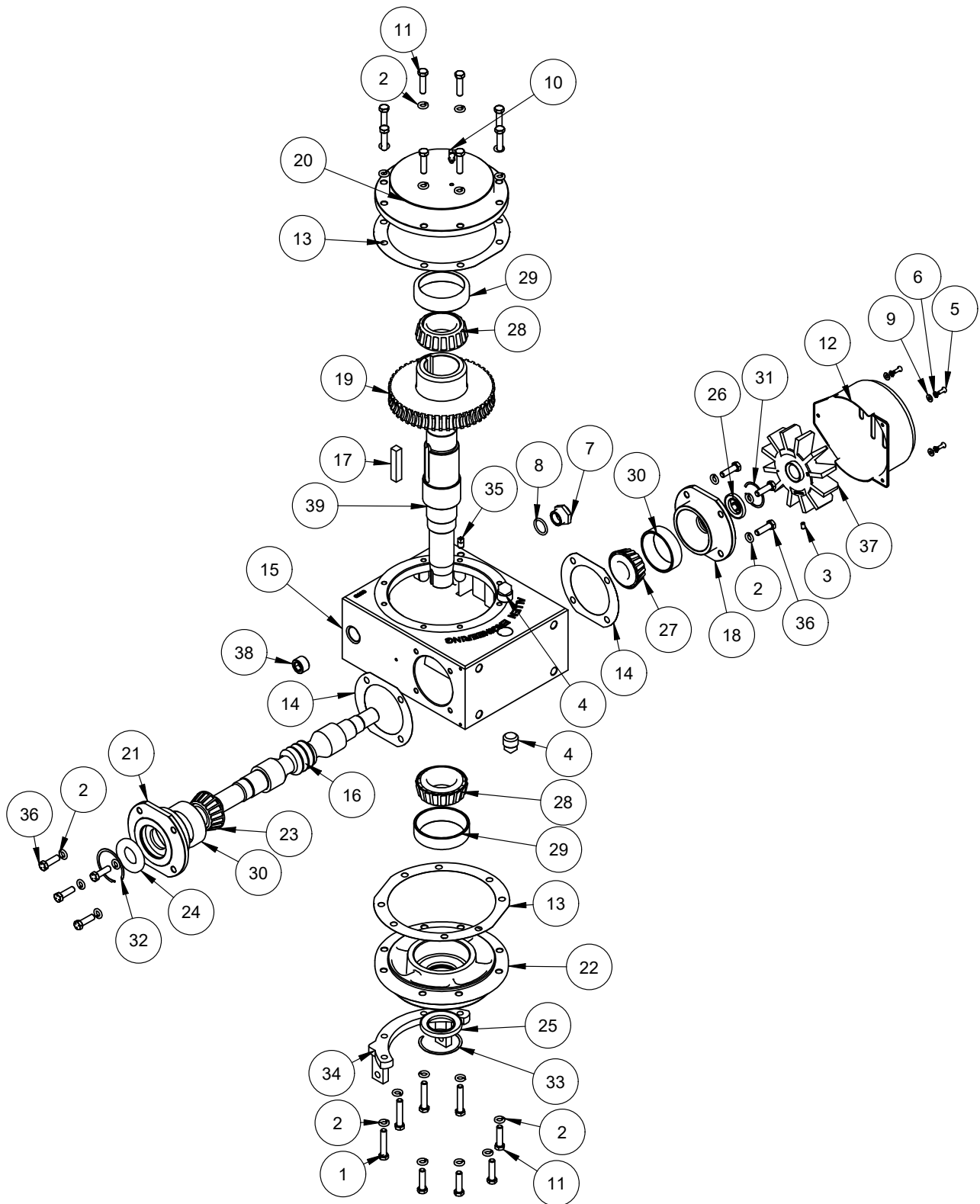


RH Rotor Assembly (073527) Parts List

SECTION 1 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	010036	FASTENER, HHCS 3/8-16 X 1	4
2	010091	FASTENER, LW 3/8	4
3	010095	FASTENER, LW 5/8	8
4	010513	FITTING, 1/4-28 STR GREASE	1
5	012612	FASTENER, NUT HEX NYLOCK 5/16-18	1
6	015677	RING, Ø7/16 E-STYLE RETAINING	2
7	015678	PIN, YOKE ARM	1
8	015692	CAP, Ø1/4 RED GREASE	6
9	015693	PLUG, PLASTIC CAP	1
10	015696	KEY, 0.25 X 1.25 LG HARD RAD	1
11	026215	YOKE, ARM	1
12	026504	FASTENER, SHCS 5/16-18 X 1/2 X Ø3/8 X 1-1/4 SHLDR	1
13	029529	VALVE, RELIEF 1/8-27 NPT	1
14	036787	FASTENER, HHCS 5/8-11 X 1 1/4	8
15	037652	WASHER, RETAINING	1
16	037655	GEARBOX, 20:1 RATIO RH	1
17	048561	BEARING ASSEMBLY F/ ROTOR MOUNT	2
18	048964	CROSSHEAD, 4-WAY	1
19	063949	STEERING ARM WMNT, RH	1
20	064632	WLDMNT, CROSSHEAD GEARBOX MOUNT	1
21	073522	PRESSURE PLATE FOR SEALED BEARING	1
22	073523	CAP, SHD PRESSURE PLATE WITH SEALED BEARING	1
23	073524	BEARING, 50MM DEEP GROOVE BALL BEARING	1
24	074094	FITTING, 90 DEGREE 4MM TUBE X 1/4-28 SWIVEL	1
25	079267	ASSEMBLY, SPIDER RH MSP445	1
26	079364	FASTENER, SHCS 1/2-13 X 1-1/4 LH	1

Right Hand Gearbox Assembly (037655)



NOTES:

1. The shim thicknesses are established at the factory, call customer service for the appropriate replacement size.

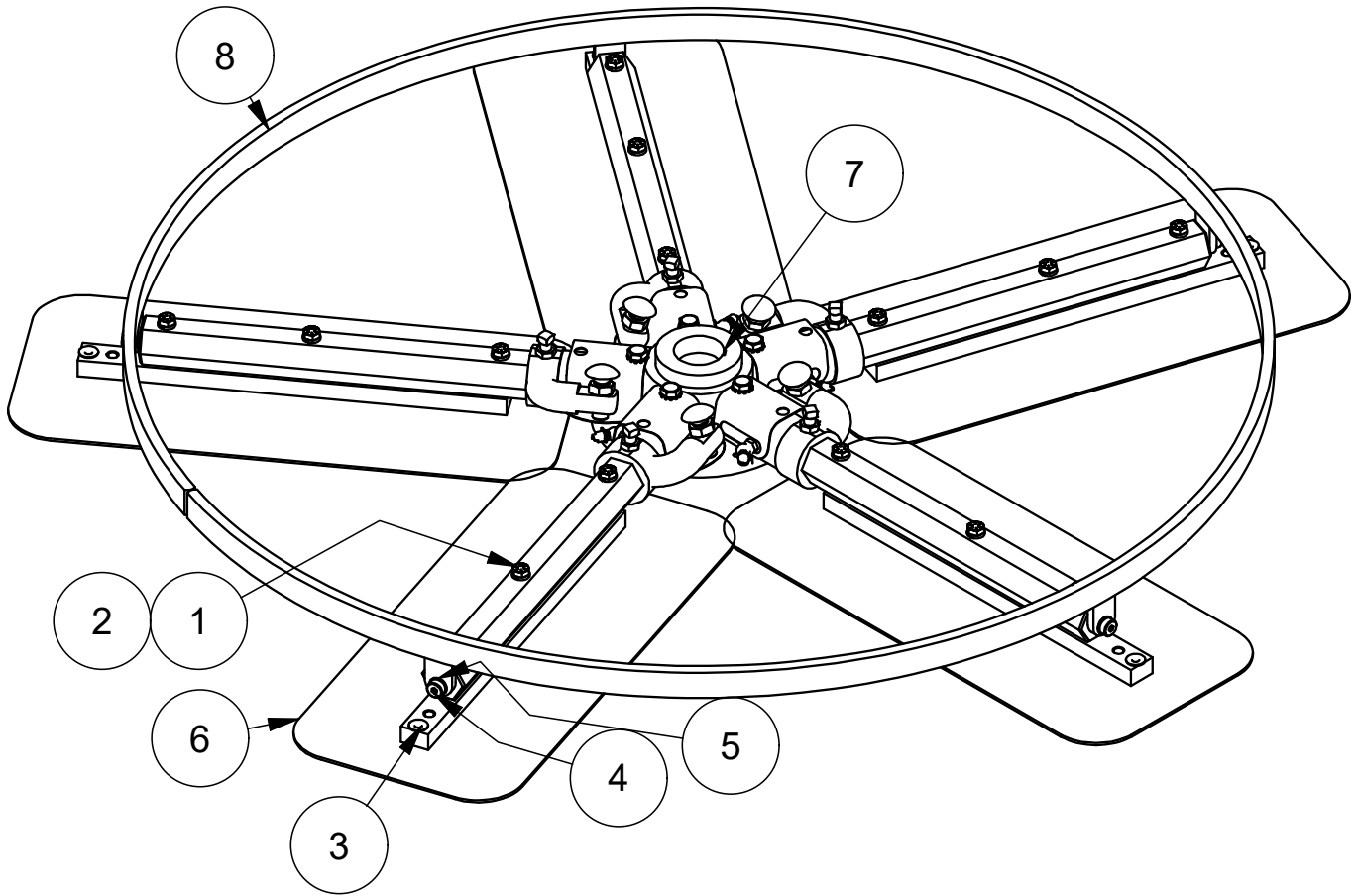
RH Gearbox Assembly (037655) Parts List

SECTION 1 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	010040	FASTENER, HHCS 3/8-16 X 2	4
2	010091	FASTENER, LW 3/8	24
3	012869	FASTENER, SET SCREW 1/4-20 X 3/8	1
4	012953	PLUG, 3/4 NPTF SQ HEAD	2
5	013484	FASTENER, SCREW 10-24 X 1/2	3
6	013740	FASTENER, LW STAR #10	3
7	015672	GAUGE, 3/4-14 NPT PORTHOLE VIEW	1
8	015673	O-RING, 15/16 X 1-3/16 X 1/8 BUNA	1
9	018072	FASTENER, FW #10	3
10	018510	FITTING, 1/4-28 NPT 45° GREASE	1
11	028402	FASTENER, HHCS 3/8-16 x 1-1/2	12
12	028703	SHROUD, FAN GEARBOX SHD	1
13	028914-XX	SHIM, (GENERIC) LGE GEARBOX CVR	AS REQ
14	028915-XX	SHIM, (GENERIC) LGE GEARBOX FLG	AS REQ
15	029143	CASE, SHD GEARBOX	1
16	029144	SHAFT, COUNTER LH SHD	1
17	029146	KEY, GEARBOX SQ 1/2 X 2.500	1
18	029147	FLANGE, GEARBOX SHD	1
19	029148	GEAR, 20:1 LH BRONZE	1
20	029150	CAP, SHD GEARBOX LARGE	1
21	029154	CAP, SHD GEARBOX END	1
22	029155	CAP, BOTTOM GEARBOX SHD	1
23	029178	BEARING, Ø1.4375 BORE TAPERED	1
24	029179	SEAL, Ø1.375 RADIAL SHAFT OIL	1
25	029180	SEAL, Ø1.875 RADIAL SHAFT OIL	1
26	029181	SEAL, Ø1.125 RADIAL SHAFT OIL	1
27	029182	BEARING, Ø1.3125 BORE TAPERED	1
28	029183	BEARING, Ø2 BORE TAPERED	2
29	029184	CUP, Ø3-43/64 TPR ROLLER BRG	2
30	029272	CUP, Ø3 TPR ROLLER BRG	2
31	032713	RING, Ø1.827 RETAINING	1
32	032714	RING, Ø2.478 RETAINING	1
33	032715	RING, Ø2.857 RETAINING	1
34	032716	BRACKET, SD GEARBOX	1
35	032745	PLUG, 1/8 NPT RED POLTHN THD	1
36	032875	FASTENER, HHCS 3/8-16 X 1-1/4	8
37	034541	FAN, SHD GEARBOX	1
38	035327	PLUG, 3/4-14 NPTF HOLLOW HEX	1
39	037651	SHAFT, MAIN LH SHD GEARBOX	1

SECTION 1 PARTS

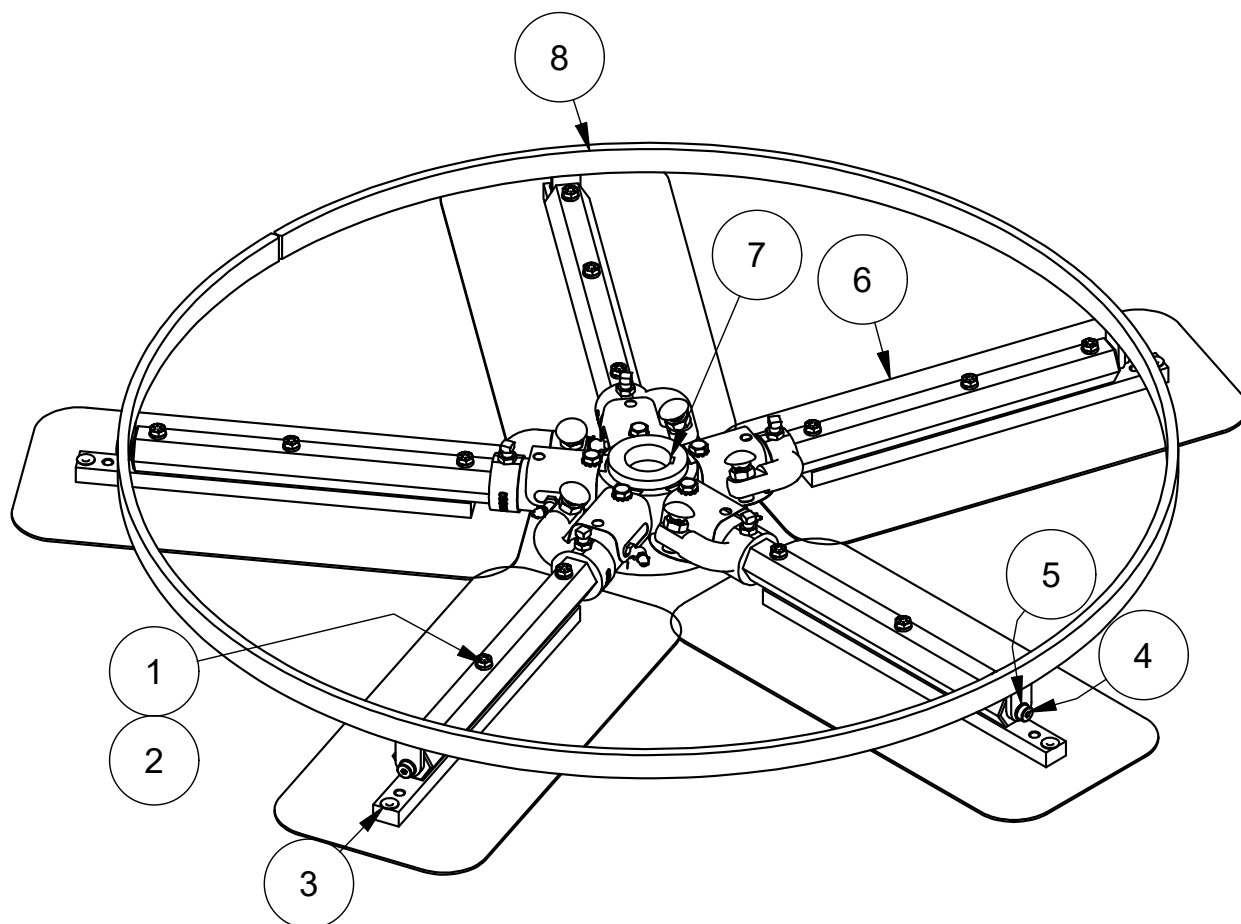
Left Hand Lower Spider Assembly (079266)



ITEM	PART NO.	DESCRIPTION	QTY
1	010024	FASTENER, HHCS 5/16-18 X 2	15
2	010090	FASTENER, LW 5/16	15
3	015694	PLUG, PLASTIC TAPERED	5
4	025091	FASTENER, 3/8 SHOULDER BOLT X 1/2 LONG	5
5	025092	BUSHING, 3/8 X 1/2 X 5/16 BRONZE	5
6	028778V	BLADE, 8 X 18 FLAT FINISH GOLD	5
7	040794	ASSEMBLY, 1200-5-SHD LH SOM SPIDER	1
8	040833	RING, STABILIZING SD 5 BLADE	1

Right Hand Lower Spider Assembly (079267)

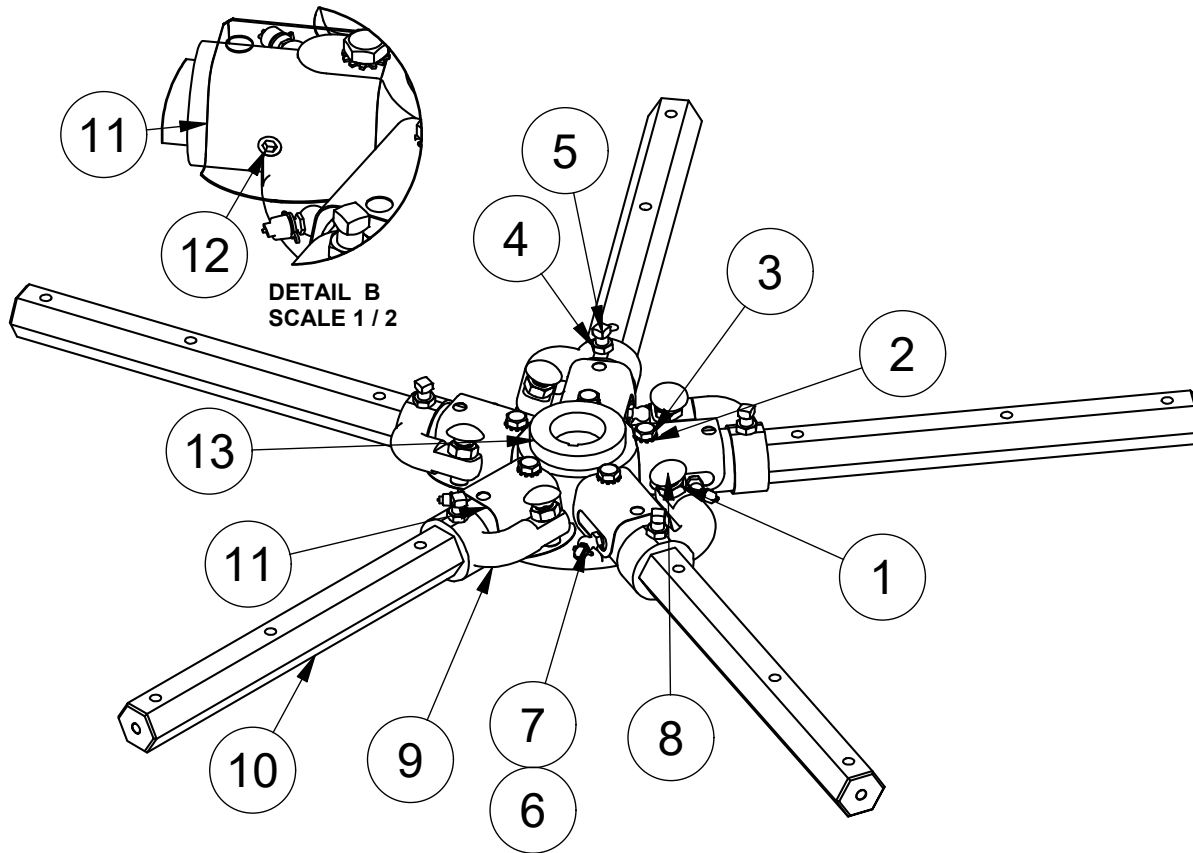
SECTION 1 PARTS



ITEM	PART NO.	DESCRIPTION	QTY
1	010024	FASTENER, HHCS 5/16-18 X 2	15
2	010090	FASTENER, LW 5/16	15
3	015694	PLUG, RED PLASTIC TAPERED	5
4	025091	FASTENER, 3/8 SHOULDER BOLT X 1/2 LONG	5
5	025092	BUSHING, 3/8 X 1/2 X 5/16 BRONZE	5
6	028778V	BLADE, 8 X 18 FLAT FINISH GOLD	5
7	040795	ASSEMBLY, 1200-5-SHD RH SOM SPIDER	1
8	040833	RING, STABILIZING 1200VG SD 5 BL	1

SECTION 1 PARTS

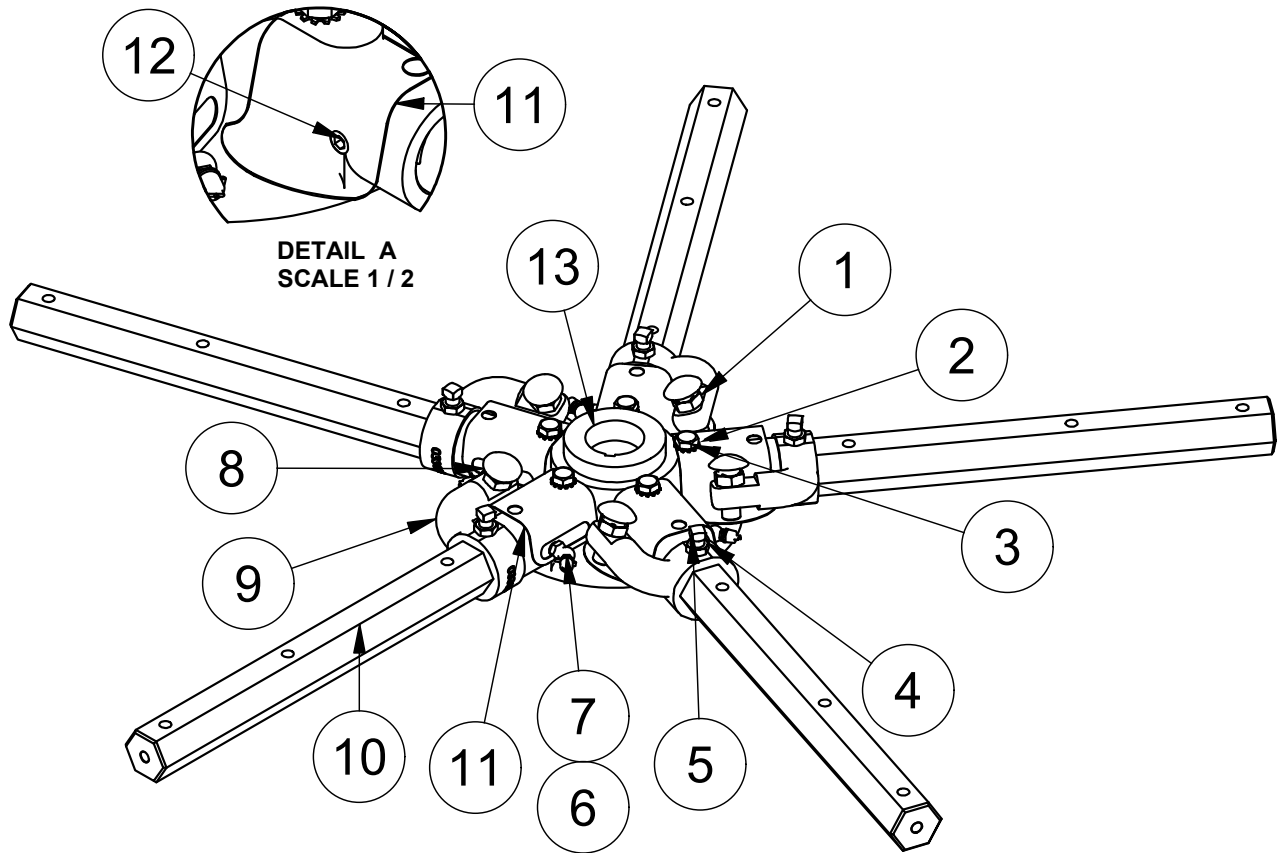
Left Hand Spider Assembly (040794)



ITEM	PART NO.	DESCRIPTION	QTY
1	010050	FASTENER, JAM HEX NUT 1/2-13	5
2	015682	FASTENER, LW 3/8 EXT TOOTH	5
3	015683	FASTENER, HHCS 3/8-16 X 7/8 DOG PT	5
4	015684	FASTENER, JAM HEX NUT, 3/8-16	5
5	015686	FASTENER, SQHSS 3/8-16 X 1	5
6	015692	CAP, Ø1/4 RED GREASE	5
7	024755	FITTING, 1/8-27 NPT 45° GREASE	5
8	028216	FASTENER, CARRIAGE BOLT 1/2-13 X 1 1/2	5
9	033034	LEVER, LIFT SD UNIVERSAL	5
10	040700	TROWEL ARM, FOR 5 BOSS SPIDER ASSY (PAINTED)	5
11	040792	CLIP, 46-48 UNIV SPIDER SPRING	5
12	050963	PLUG, 1/8" NPT HEX SOCKET ZINC PLATED	5
13	064220P	SPIDER, 5 BOSS UNIVERSAL	1

Right Hand Spider Assembly (040795)

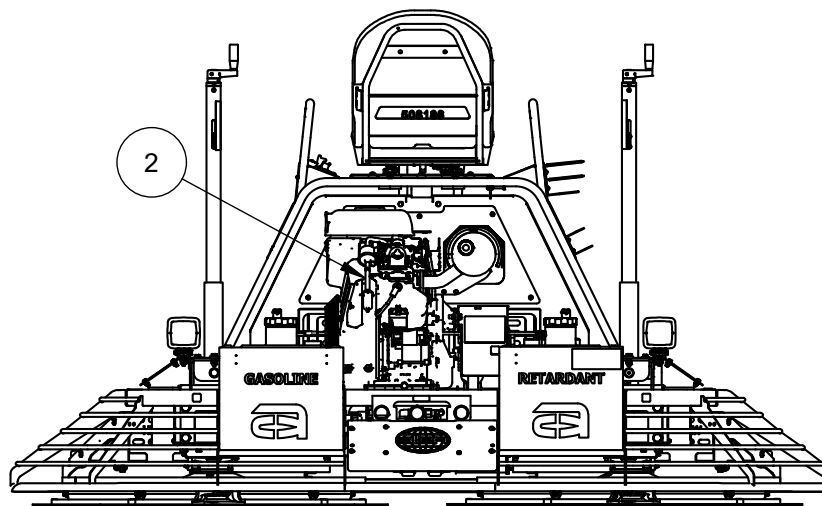
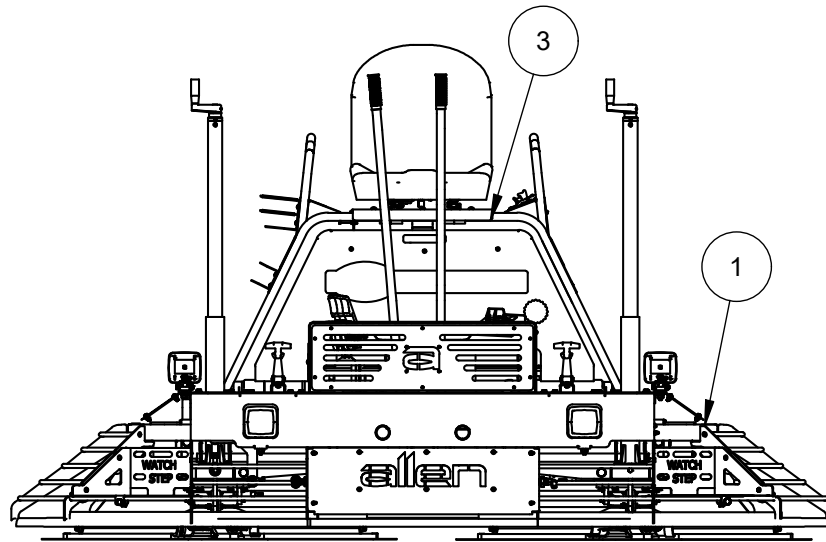
SECTION 1 PARTS



ITEM	PART NO.	DESCRIPTION	QTY
1	010050	FASTENER, JAM HEX NUT 1/2-13	5
2	015682	FASTENER, LW 3/8 EXT TOOTH	5
3	015683	FASTENER, HHCS 3/8-16 X 7/8 DOG PT	5
4	015684	FASTENER, JAM HEX NUT, 3/8-16	5
5	015686	FASTENER, SQHSS 3/8-16 X 1	5
6	015692	CAP, Ø1/4 RED GREASE	5
7	024755	FITTING, 1/8-27 NPT 45° GREASE	5
8	028216	FASTENER, CARRIAGE BOLT 1/2-13 X 1 1/2	5
9	033034	LEVER, LIFT SD UNIVERSAL	5
10	040700	TROWEL ARM, FOR 5 BOSS SPIDER ASSY (PAINTED)	5
11	040792	CLIP, 46-48 UNIV SPIDER SPRING	5
12	050963	PLUG, 1/8" NPT HEX SOCKET ZINC PLATED	5
13	064220P	SPIDER, 5 BOSS UNIVERSAL	1

SECTION 1 PARTS

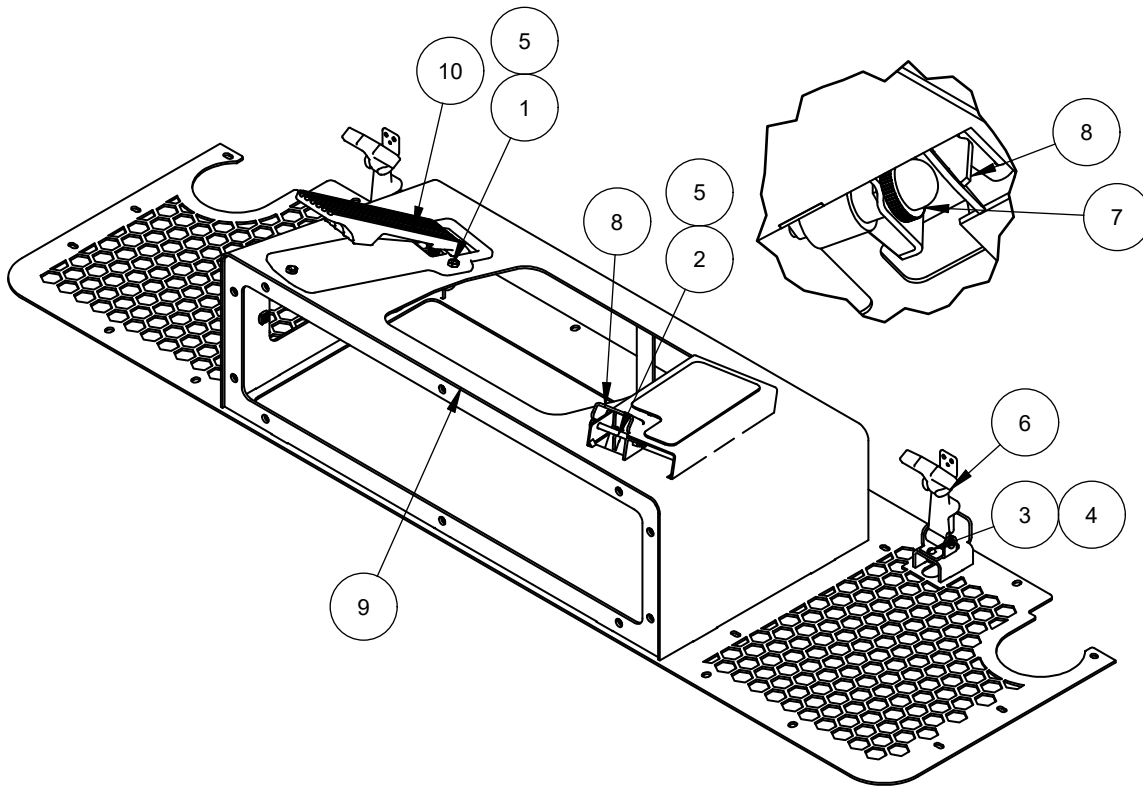
General Arrangement, MSP445 w/ Vanguard Engine (076030)



ITEM	PART #	DESCRIPTION	QTY
-	076030	ASSEMBLY, MSP445 W/ VANGUARD ENGINE	-
1	076031	ASSEMBLY, MAIN FRAME	1
2	076035	ASSEMBLY, POWER UNIT	1
3	077898	ASSEMBLY, SEAT FRAME	1
-	076198	ELECTRICAL HARNESS, F/ VANGUARD ENGINE	1

Front Deck Assembly (077595)

SECTION 1 PARTS

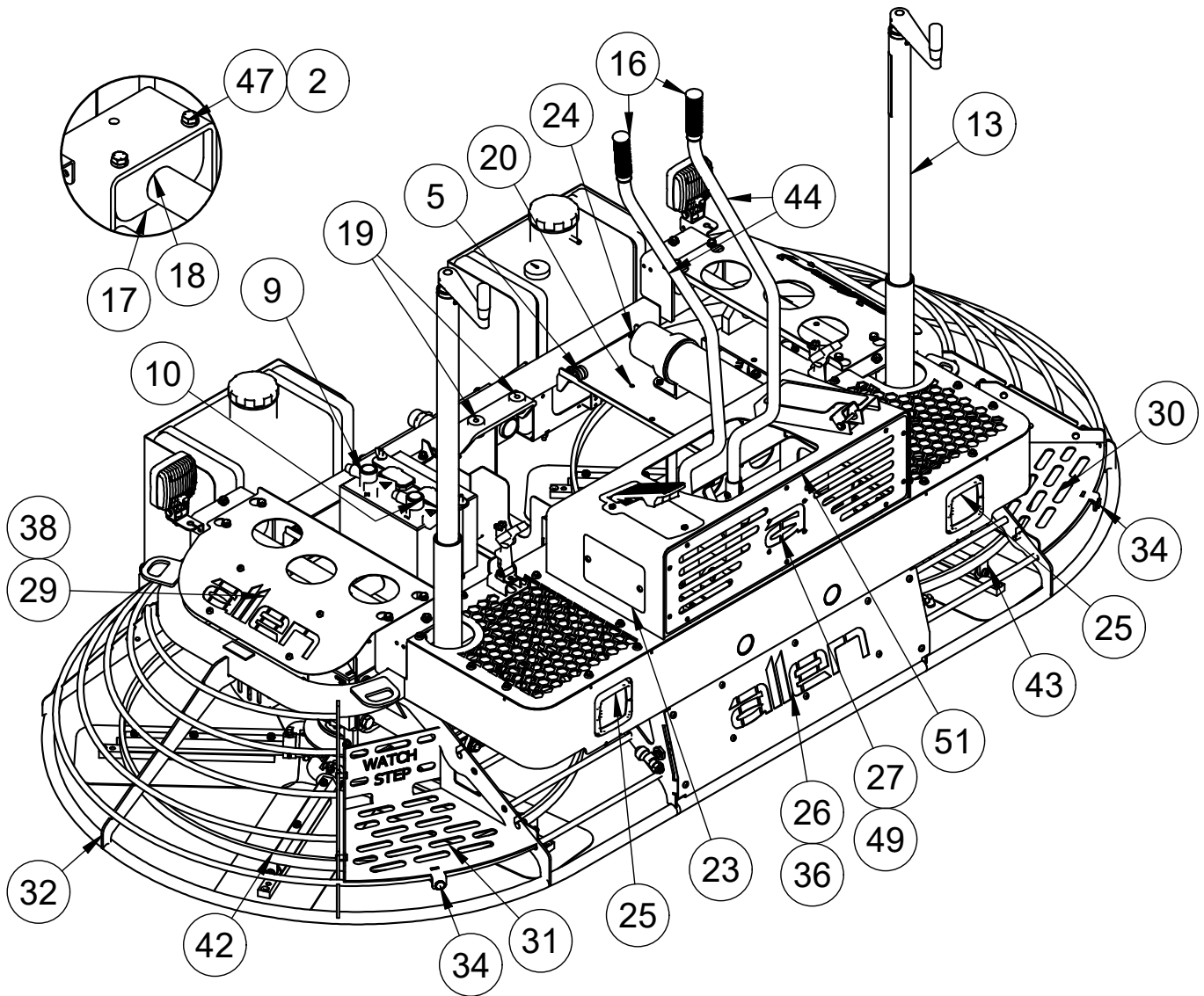


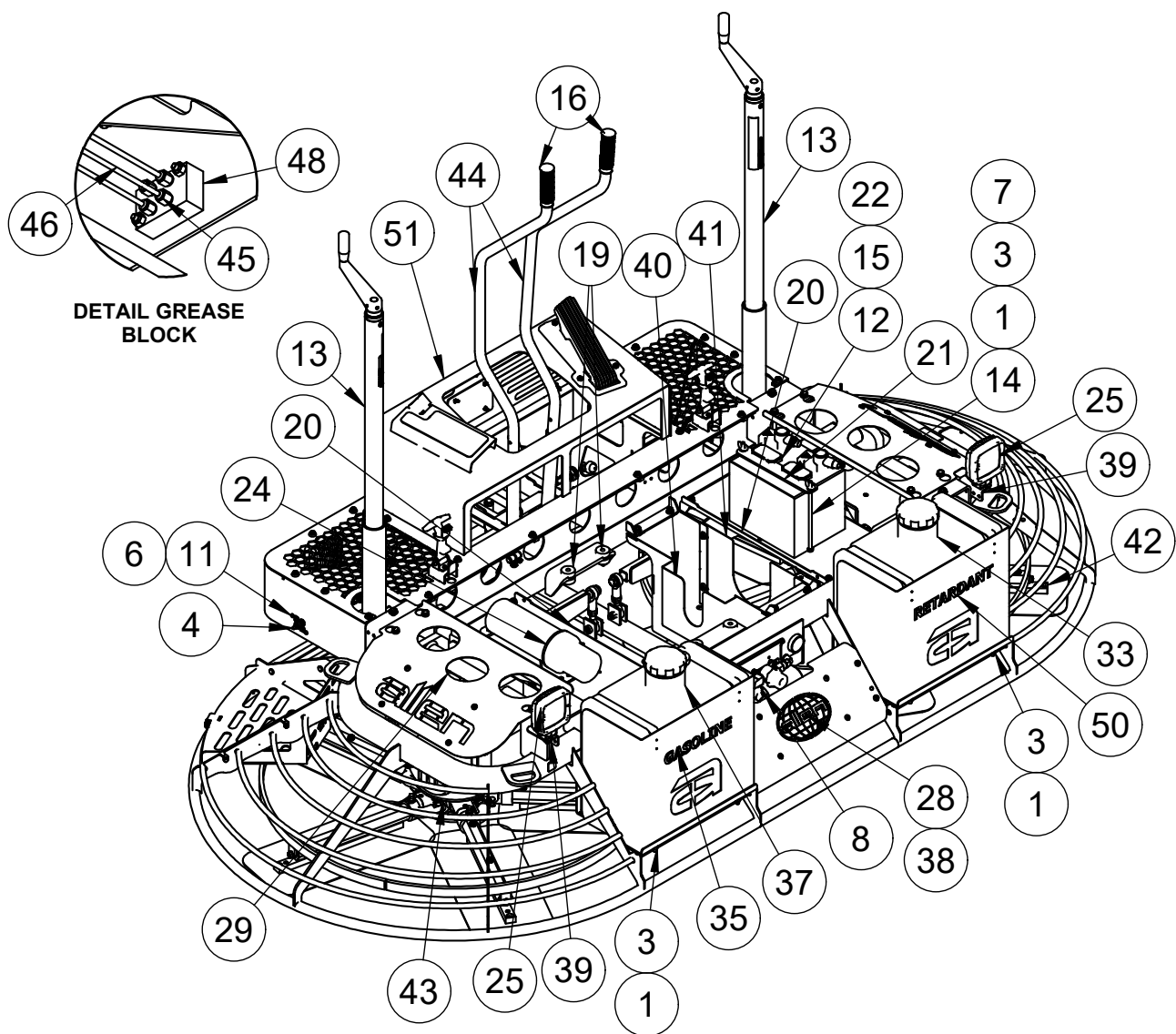
ITEM	PART NO.	DESCRIPTION	QTY
1	010002	FASTENER, HHCS 1/4-20 X 3/4	3
2	010009	FASTENER, HHCS 1/4-20 X 2 1/2	1
3	010568	FASTENER, SCREW 10-32 X 1/2	4
4	029568	FASTENER, HEX NUT 10-32 NYLOCK	4
5	029671	FASTENER, HEX NUT 1/4-20 NYLOCK	4
6	042260	LATCH, T-HANDLE EXTRA-LARGE DRAW	2
7	068956	SWITCH, MOMENTARY	1
8	076300	WELDMENT, PEDAL WATER SWITCH FOR RIDERS	1
9	077594	WELDMENT, UPPER DECK	1
10	*081377	PEDAL ELECTRONIC, FLOOR MOUNT WITH HALL EFFECT SWITCH	1

*Note: Rev K Foot pedal changed from 076973 to 081377

SECTION 1 PARTS

Main Frame Assembly (076031)





SECTION 1 PARTS

Main Frame (076031) Assembly Parts List

ITEM	PART NO.	DESCRIPTION	QTY
1	010090	FASTENER, LW 5/16	22
2	010091	FASTENER, LW 3/8	8
3	010100	FASTENER, HEX NUT 5/16-18	10
4	010513	FITTING, 1/4-28 STRAIGHT GREASE	4
5	020604	CLIP, WIRE HOLDER	1
6	029568	FASTENER, HEX NUT NYLOCK 10-32	14
7	032106	FASTENER, WING NUT 5/16-18	2
8	033735	PUMP, SPRAY SYSTEM	1
9	035597	INSULATOR, POS BATTERY TERMINAL	1
10	035598	INSULATOR, NEG BATTERY TERMINAL	1
11	036791	FASTENER, SCREW 10-32 X 3/8	2
12	037771	BATTERY, 12 V 500CCA	1
13	038174	ASSEMBLY, PITCH CONTROL	2
14	047715	ROD, 5/16-18 BATTERY RETAINER 8-5/8" LONG	2
15	047730	CABLE, 4 AWG 32" LONG POS BATTERY	1
16	048354	GRIP, SAT 3 Ø1 BLACK HANDLE	2
17	048559	BLOCK, BEARING HOUSING	4
18	048560	BEARING, Ø1 ID PLASTIC FLANGE	4
19	048901	MOUNT, 250LB MOTOR	4
20	048906	TRAY F/ BATTERY	2
21	048932	BAR, BATTERY HOLD DOWN	1
22	048976	CABLE, 4 AWG 35" LONG NEGATIVE BATTERY	1
23	060492	PLATE, COVER TOP DECK SIDE	1
24	066255	MANUAL TUBE	1
25	069835	LIGHT, LED 1200 LUMENS 12 VDC (1.5 AMP)	4
26	071056	COVER FRONT CENTER FOR MSP445	1
27	071074	COVER FRONT, DECK FOR MSP445	1
28	071089	COVER REAR CENTER FOR MSP445	1
29	071094	COVER, RH CROSSHEAD MSP445	2
30	071099	STEP, LH FOR MSP445	1
31	071103	STEP, RH FOR MSP445	1
32	071125	WELDMENT, MAIN FRAME MSP445	1
33	071536	TANK, 7 GALLON RETARDANT ASSEMBLY	1
34	071606	FASTENER, THUMB SCREW 1/4-20 X 1-3/4	2
35	072737	GUARD, FOR 7 GALLON GASOLINE TANK	1
36	072739	PLATE, BACKER FOR FRONT NAME PLATE ON MSP445	1

Main Frame (076031) Assembly Parts List Continued

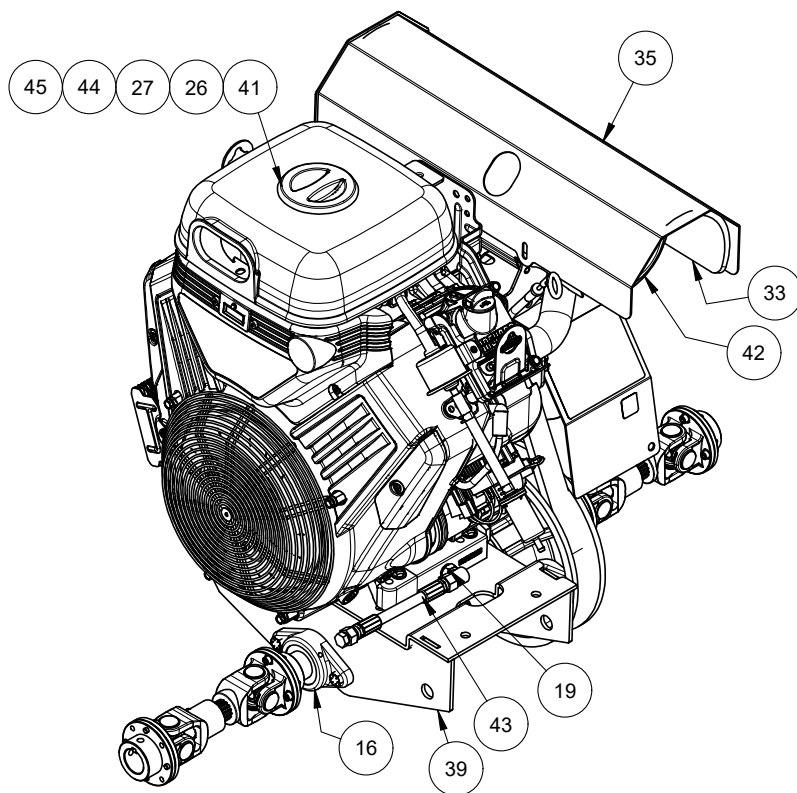
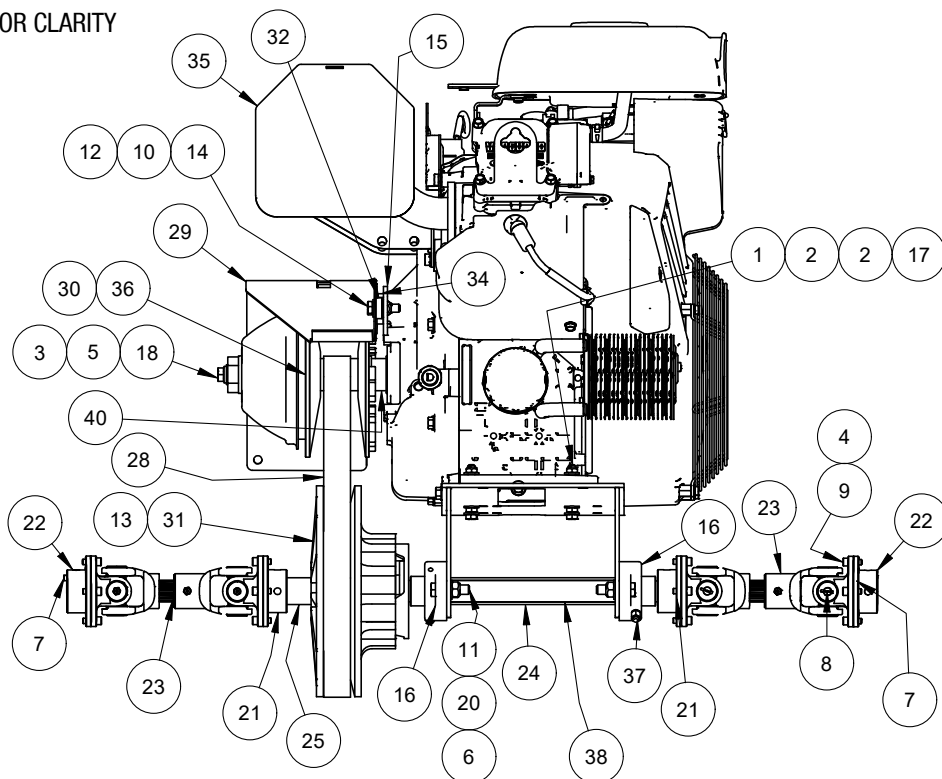
SECTION 1 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
37	072854	ASSEMBLY , FUEL TANK 7 GALLON CAPACITY	1
38	072856	PLATE, BACKER FOR EMBLEM PLATE	3
39	073392	BRACKET, REAR LIGHT FOR MSP445	2
40	073395	GUARD, BELT MSP445	1
41	073402	COVER, OUTER FOR BOTTOM PULLEY COVER MSP445	1
42	073527	ASSEMBLY, RH ROTOR MSP445	1
43	073528	ASSEMBLY, LH ROTOR MSP445	1
44	073531	HANDLE, STEERING FOR MSP445	2
45	073815	FITTING, PUSH IN STRAIGHT FOR 4MM TUBING	4
46	073819	TUBING, 4 MM PLASTIC FOR GREASE LINE	15FT
47	074068	FASTENER, HHCS 3/8-16 X 1 W/ BLUE LOCTITE	8
48	074337	BLOCK, MANIFOLD GREASE PORTS	1
49	074535	PLATE, BACKING FOR SMALL SYMBOL RED	1
50	075422	GUARD, FOR 7 GALLON RETARDANT TANK	1
51	077595	ASSEMBLY, FRONT DECK FOR MSP445 W/ VANGUARD	1

SECTION 1 PARTS

Power Unit Assembly (076035)

*ITEM #20,
MADE TRANSPARENT FOR CLARITY



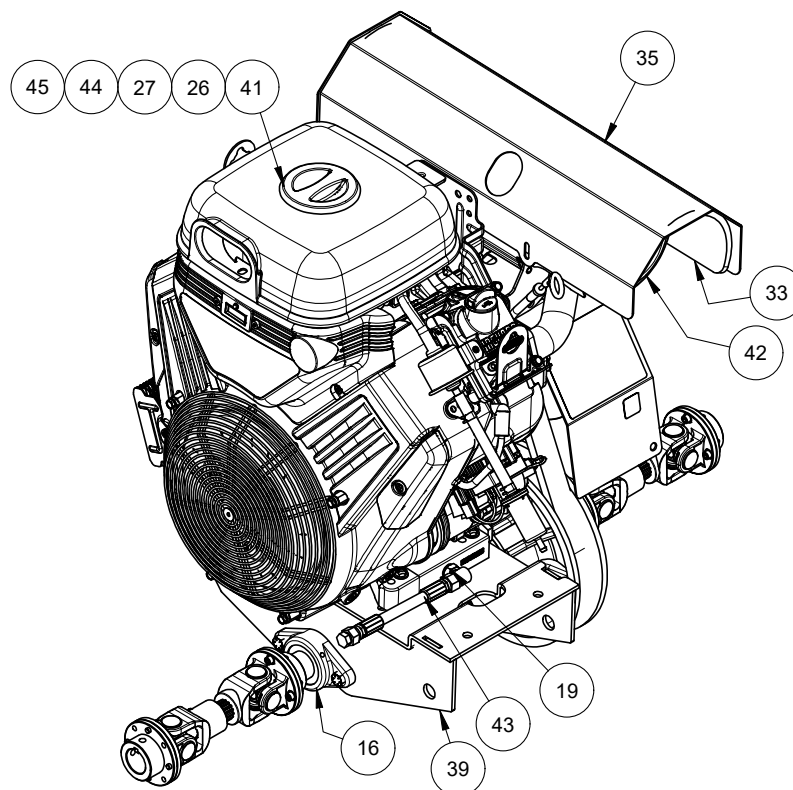
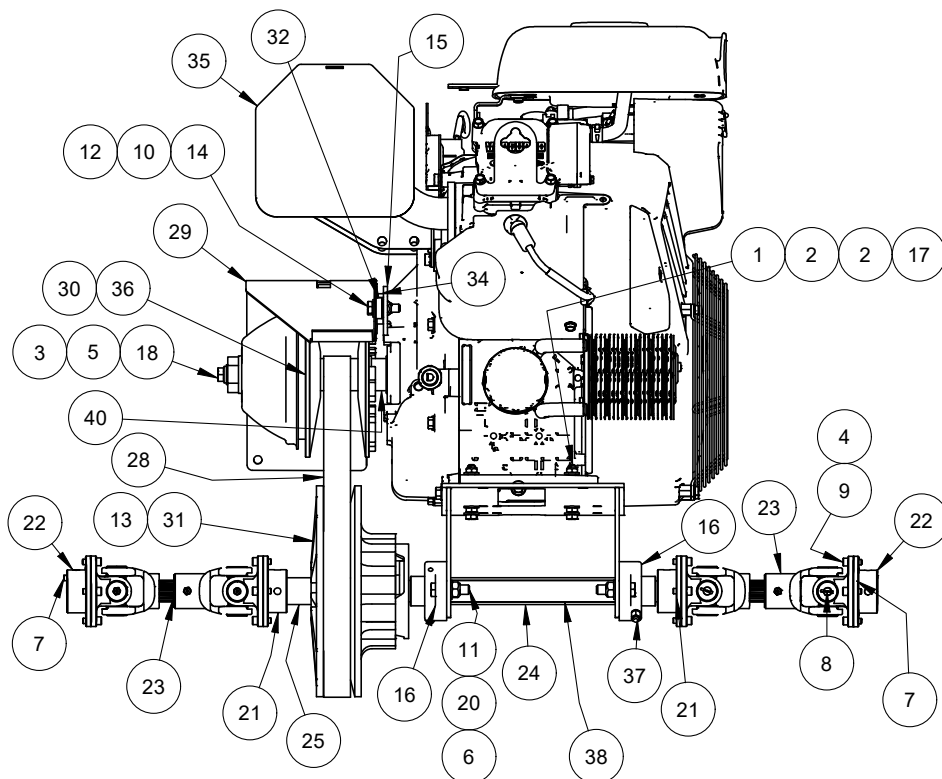
Power Unit Assembly (076035) Parts List

SECTION 1 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	010024	FASTENER, HHCS 5/16-18 X 2	4
2	010082	FASTENER, FW 5/16	8
3	010084	FASTENER, FW 7/16	1
4	010089	FASTENER, LW 1/4	16
5	010092	FASTENER, LW 7/16	1
6	010096	FASTENER, FW 7/16	4
7	011791	KEY, 1/4 SQ X 1	4
8	015692	CAP, Ø1/4 RED GREASE	2
9	017314	FASTENER, SHCS 1/4-20 X 5/8	16
10	017751	FASTENER, FW 3/8	4
11	017898	FASTENER, HHCS 7/16-20 X 1-1/2	4
12	020514	FASTENER, HEX NUT STOVER 3/8-16	2
13	026992	KEY, 1/4 X 3 1/8" LONG	1
14	032875	FASTENER, HHCS 3/8-16 X 1-1/4	2
15	033661	PLATE, BELT GUARD BRACKET	1
16	039136	BEARING, 1" FLANGED 2 BOLT ECCENTRIC COLLAR	2
17	040004	FASTENER, HEX NUT STOVER 5/16-18	4
18	042280	FASTENER, HHCS 7/16-20x4-1/2	1
19	042821	FITTING, #JICMX3/8MPT STGT. FLARE-O	1
20	047477	FASTENER, HEX NUT STOVER 7/16-20	4
21	047635	HUB, Ø1 BORE U-JOINT CENTER SHAFT	2
22	047636	HUB, Ø1.25 BORE GEARBOX SHAFT	2
23	047637	ASSEMBLY, U-JOINT TELESCOPING	2
24	048810	SPACER, FOR BEARING	1
25	048908	SPACER, 1-1/8" LG DRIVEN PULLEY POSITION	1
26	049190	FILTER, AIR PRE-CLEANER FOR VANGUARD ENG	1
27	049191	FILTER, AIR PRIMARY FOR VANGUARD ENG	1
28	051332	BELT, CVT	1
29	053136	CVT COVER, MSP445	1
30	053210	KEY, 3/16 X 1/4 X 2	1
31	053389	DRIVEN PULLEY, MSP445	1
32	056470	BUSHING, NITRILE	2
33	056938	HEAT WRAP, 14" X 20"	1
34	065694	FASTENER, HHCS 7/16-14 X 1	2
35	072755	MUFFLER GUARD	1

SECTION 1 PARTS

Power Unit Assembly (076035)



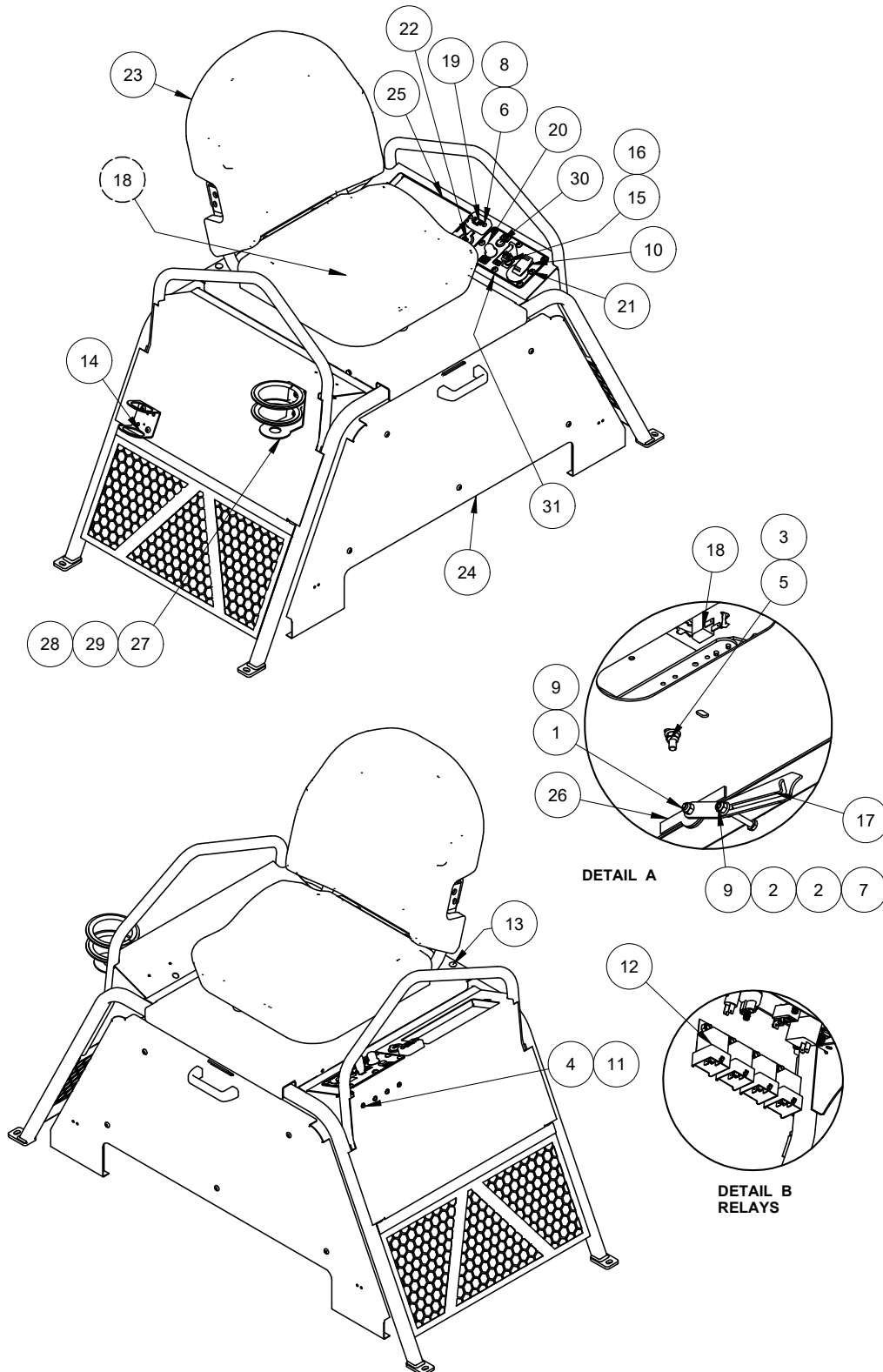
Power Unit Assembly (076035) Parts List Continued

SECTION 1 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
36	073310	CVT, DRIVER TORQUE CONVERTER	1
37	073817	FITTING, STRAIGHT PUSH-IN FOR 4MM TUBING 1/8 NPT	2
38	075219	SHAFT, DRIVE	1
39	075835	WELDMENT, ENGINE PLATE MSP445/455 W/ VANGUARD	1
40	076032	SPACER F/ CLUTCH, MSP445 W/ VANGUARD	1
41	076033	ENGINE, VANGUARD EFI 40 HP WITH 20/50 ALTERNATOR	1
42	076039	MUFFLER, FOR VANGUARD 40 HP EFI	1
43	077797	HOSE, DRAIN F/VANGUARD	1
44	081770	FILTER, OIL FOR VANGUARD ENG	1
45	081771	FUEL FILTER, FOR VANGUARD ENG	1

SECTION 1 PARTS

Seat Frame Assembly (077898)



Seat Frame Assembly (077898) Parts List

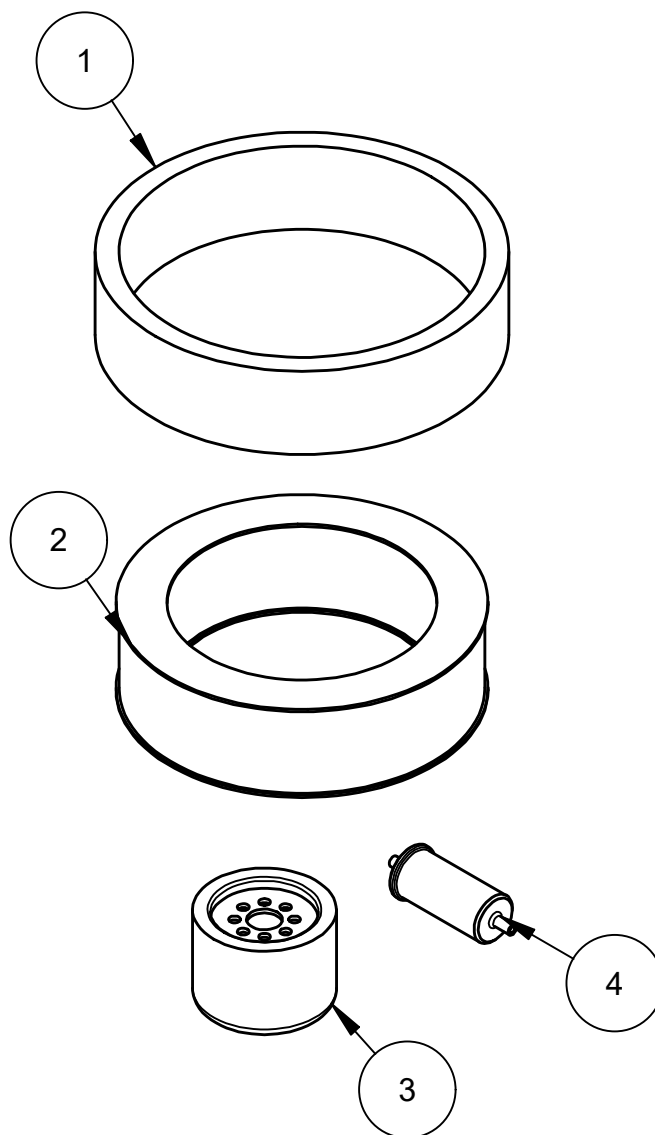
SECTION 1 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	010002	FASTENER, HHCS 1/4-20 X 3/4	1
2	010081	FASTENER, FW 1/4	2
3	010082	FASTENER, FW 5/16	4
4	010568	FASTENER, SCREW 10-32 X 1/2	4
5	012612	FASTENER, NUT HEX NYLOCK 5/16-18	4
6	016382	FASTENER, RHMS 10-32 X 1	2
7	020542	FASTENER, HEX NUT STOVER 1/4-20	1
8	029568	FASTENER, HEX NUT NYLOCK 10-32	6
9	029671	FASTENER, HEX NUT NYLOCK 1/4-20	2
10	032125	ROCKER SWITCH	1
11	032358	FASTENER, LW NO. 10 EXT TOOTH	4
12	047052	RELAY, 12 V 30/50 A W/RES SHROUD	4
13	047665	RUBBER BUMPER	3
14	049632	TOOL HOLDER BRKT	1
15	050603	SWITCH TOGGLE, ON/OFF 12VDC	1
16	050604	COVER, TOGGLE, SAFETY	1
17	053211	SEAT PROP	1
18	061374	SWITCH, FOR 069874 SEAT - NORMALLY OPEN	1
19	064386	METER, TACH/HOUR INDUCTIVE, F/EFI	1
20	068956	SWITCH, MOMENTARY	1
21	069737	FASTENER, SCREW PAN HEAD 1/4-20 X 3/4 ZINC PLATED	12
22	069850	USB RECEPTACLE 12VDC	1
23	069874	SEAT, RIDER	1
24	071066	FRONT SCREEN ASSEMBLY	1
25	071106	RUBBER, CELL HOLDER TRAY	1
26	071111	WELDMENT, SEAT FRAME MSP445	1
27	071120	METAL CUP HOLDER FOR RIDE-ON TROWELS	1
28	071123	RUBBER TRIM CUT 12 500" LONG FOR TOP SECTION OF CUP HOLDER (USE 071122)	1
29	071124	RUBBER TRIM CUT 10.500" LONG FOR MIDDLE SECTION OF CUP HOLDER (USE 071122)	1
30	073948	LIGHT, RED LED FLUSH PANEL MNT. SNAP-IN FOR 5/8" HOLE	1
31	077896	PANEL, ENGINE CONTROL MSP445 W/ VANGUARD	1

SECTION 1 PARTS

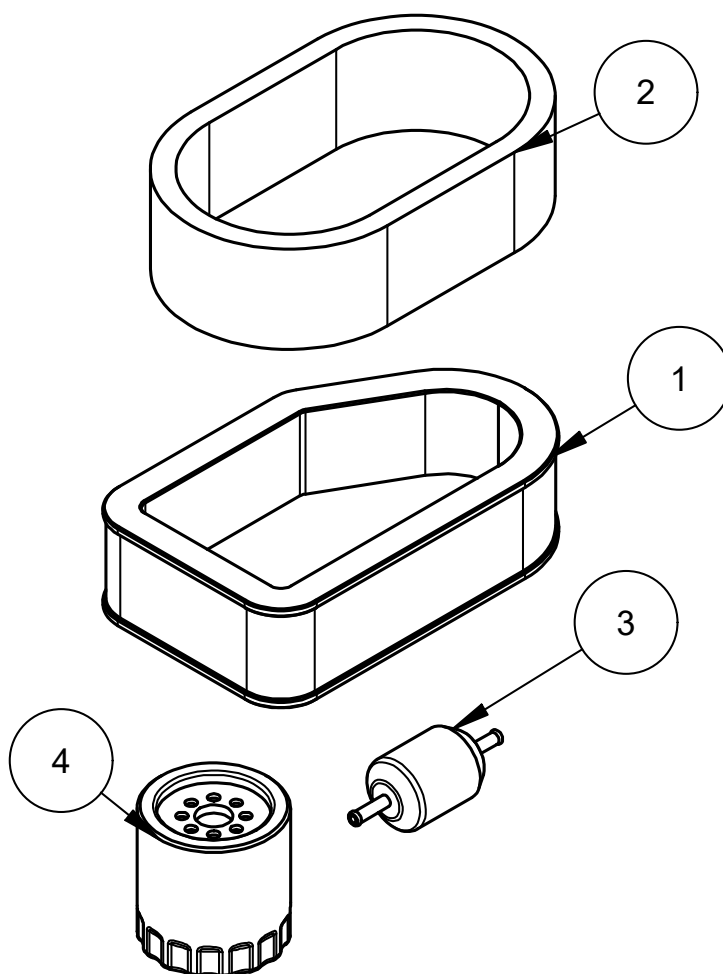
Service Parts, Filters for Vanguard

Note: Illustrations are for reference only



ITEM	PART NO.	DESCRIPTION	QTY
1	049190	FILTER, AIR PRE-CLEANER F/ VANGUARD	1
2	049191	FILTER, AIR PRIMARY F/ VANGUARD	1
3	081770	FILTER, ENGINE OIL F/ VANGUARD	1
4	081771	FILTER, FUEL F/ VANGUARD	1

Note: Illustrations are for reference only



ITEM	PART NO.	DESCRIPTION	QTY
1	057991	FILTER, AIR PRIMARY F/ KOHLER	1
2	057992	FILTER, AIR PRE-CLEANER F/ KOHLER	1
3	057993	FILTER, FUEL F/ KOHLER	1
4	057994	FILTER, ENGINE OIL F/ KOHLER	1

SECTION 2: DECALS

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SECTION 2 DECALS

Decals, MSP445



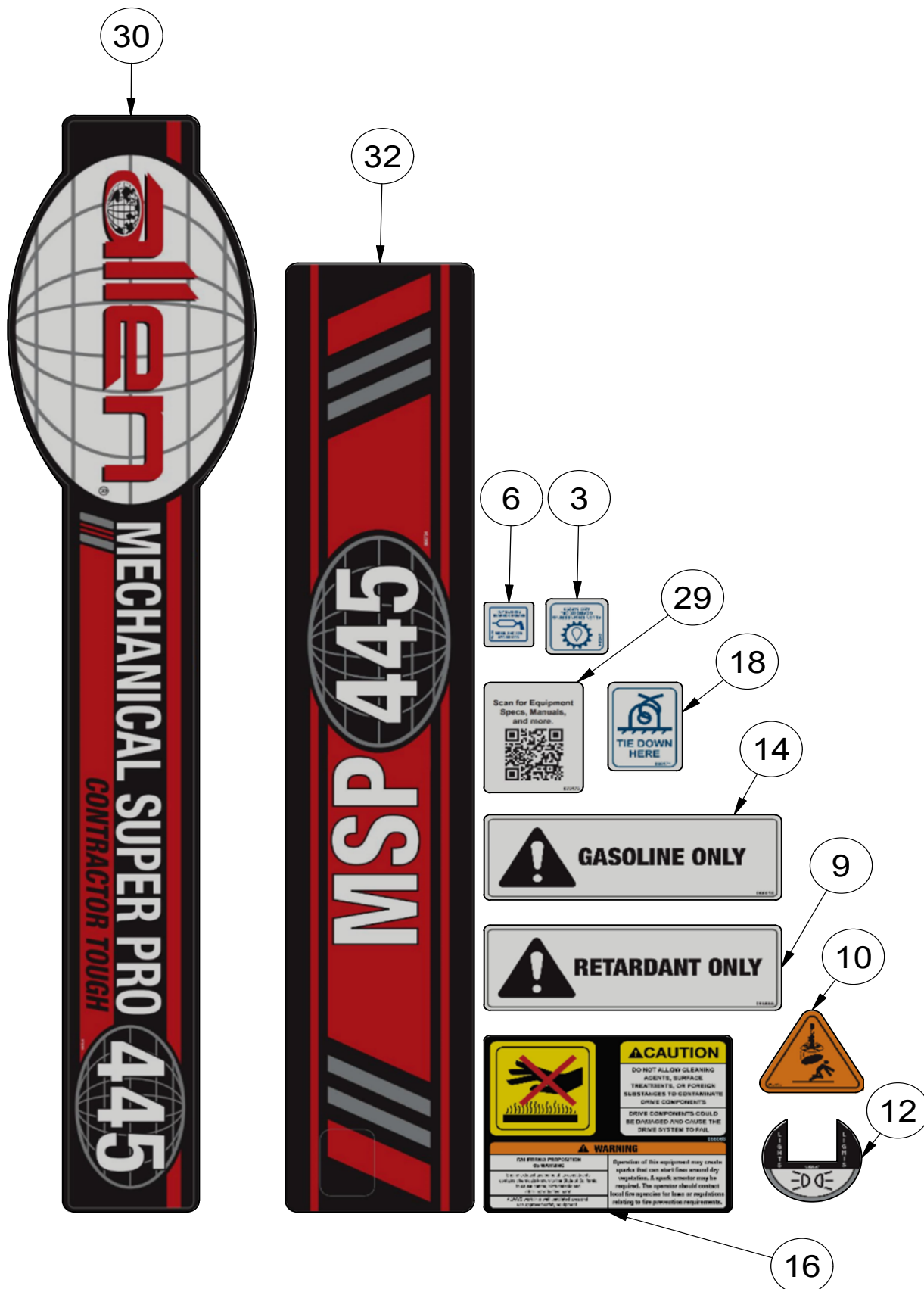
Decals, MSP445 Parts List

SECTION 2 DECALS

ITEM	PART #	DESCRIPTION	QTY
-	074090	KIT, MSP445 DECAL	1
1	032377	PITCH CONTROL	2
2	039893	CE MARKING	1
3	048299D	OIL, GEARBOX	2
4	053447	HAND TOOL AREA	1
5	056338	AEC 1.5" X 3.25" WHITE/RED	1
6	065564	RIDER GEARBOX OIL	1
7	065652	GREASE THRUST BEARINGS	3
8	065653	LIFT HOOK	2
9	065655	RETARDANT ONLY	1
10	065656	PAN FALL	2
11	065657	OPERATOR'S MANUAL	1
12	065897	LIGHTS	1
13	065917	PINCH POINT	5
14	066018	GAS ONLY 7.75" X 2.5"	1
15	066061	STARTING INSTRUCTIONS	1
16	066063	HOT, CAUTION, WARNING	1
17	066064	MSP 445 19.5" X 4.25"	1
18	066171	TIE DOWN ONLY	4
19	068457	PATENT PLACARD	1
20	069225	PROPOSITION 65	1
21	071102	EPA LABEL	1
22	072966	CHECK ENGINE LIGHT	1
23	072967	OIL PRESSURE	1
24	074011	PUSH TO START	1
25	074012	ENGINE ON/OFF	1
26	074086	GREASE PORT	1
27	074087	DRIVE LINE BEARING GREASE & GEARBOXES	1
28	074284	GREASING OF U-JOINTS	1
29	075175	QR CODE	1
30	075265	MSP FRONT SEAT SCREEN	1
31	075276	MADE IN AMERICA	1
32	075284	MSP 445 21.5" X 3.8"	1

SECTION 2 DECALS

Decals Continued, MSP445



Decals, MSP445 Parts List

SECTION 2 DECALS

ITEM	PART #	DESCRIPTION	QTY
-	074090	KIT, MSP445 DECAL	1
1	032377	PITCH CONTROL	2
2	039893	CE MARKING	1
3	048299D	OIL, GEARBOX	2
4	053447	HAND TOOL AREA	1
5	056338	AEC 1.5" X 3.25" WHITE/RED	1
6	065564	RIDER GEARBOX OIL	1
7	065652	GREASE THRUST BEARINGS	3
8	065653	LIFT HOOK	2
9	065655	RETARDANT ONLY	1
10	065656	PAN FALL	2
11	065657	OPERATOR'S MANUAL	1
12	065897	LIGHTS	1
13	065917	PINCH POINT	5
14	066018	GAS ONLY 7.75" X 2.5"	1
15	066061	STARTING INSTRUCTIONS	1
16	066063	HOT, CAUTION, WARNING	1
17	066064	MSP 445 19.5" X 4.25"	1
18	066171	TIE DOWN ONLY	4
19	068457	PATENT PLACARD	1
20	069225	PROPOSITION 65	1
21	071102	EPA LABEL	1
22	072966	CHECK ENGINE LIGHT	1
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29	075175	QR CODE	1
30	075265	MSP FRONT SEAT SCREEN	1
31	075276	MADE IN AMERICA	1
32	075284	MSP 445 21.5" X 3.8"	1

Revision Detail

MANUAL REVISION DETAIL

REVISION #	REVISION DATE	REVISION REFERENCE #	REVISION BY
	11/21	Initial Release	MK
A	01/22	Updated Covers	MK
B	06/22	Updated Trowel Arm PN	MK
C	10/23	Added Vanguard Part Illustrations	MK
D	02/24	24-064	MK
E	03/24	Vanguard updates	MK
F	01/25	Pg. 45 Item 16 PN Correction	MK
G	01/25	Added GB Exploded View	MK
H	07/25	Pg. 33 & 37 Item #, PN, U/M corrections	MK
I	08/25	Updated Part Illustrations & Part Lists	MK
J	10/25	Added Engine Service Parts	MK
K	11/25	Updated Illustrations/Parts Lists	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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