

WALK-BEHIND TROWELS

PRO WALK-BEHIND



PARTS & DECALS MANUAL

Manual Part #: 080743P | Revision: -
Language: English | Original Instructions



Duel Fuel Walk-behind Trowel

PARTS & DECALS MANUAL

This manual covers the Trowel Parts listed below:

Kitted Part Numbers (Includes Power Unit and Handle)

<u>Part No.</u>	<u>Description</u>
079450	TROWEL KIT, 446, DUAL-FUEL, FINE PITCH HANDLE (DuroMax)

Handle Only Part Numbers

<u>Part No.</u>	<u>Description</u>
063975	HANDLE, PRO, DUAL-FUEL, FINE PITCH, LONG ADJUSTMENT
070300	HANDLE, PRO, DUAL-FUEL, RAPID PITCH, LONG ADJUSTMENT

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

U.S. Patents: 10,100,537; 9,068,300; 7,690,864; 7,114,876B1; 6,857,815B2; 6,582,153

With other Patents Pending.

Printed in U.S.A.

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Customer Notes

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 insure 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.

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 this manual. Please order replacement parts by the appropriate part number, not the key number.

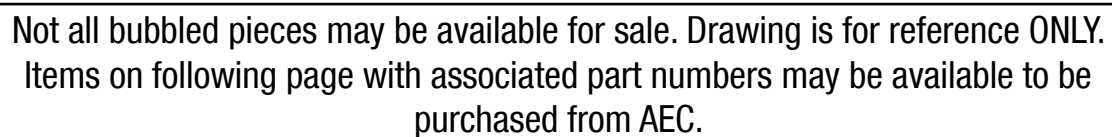
This manual contains an illustrated parts list for help in ordering replacement parts for your machine. Follow the instructions below when ordering parts to insure prompt and accurate delivery:

1. All orders for service parts - include the serial number for the machine. Shipment will be delayed if this information is not available.
2. Include correct description and part number from the "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 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.

Handle, Fine Pitch, Illustration



Handle, Fine Pitch, Parts List

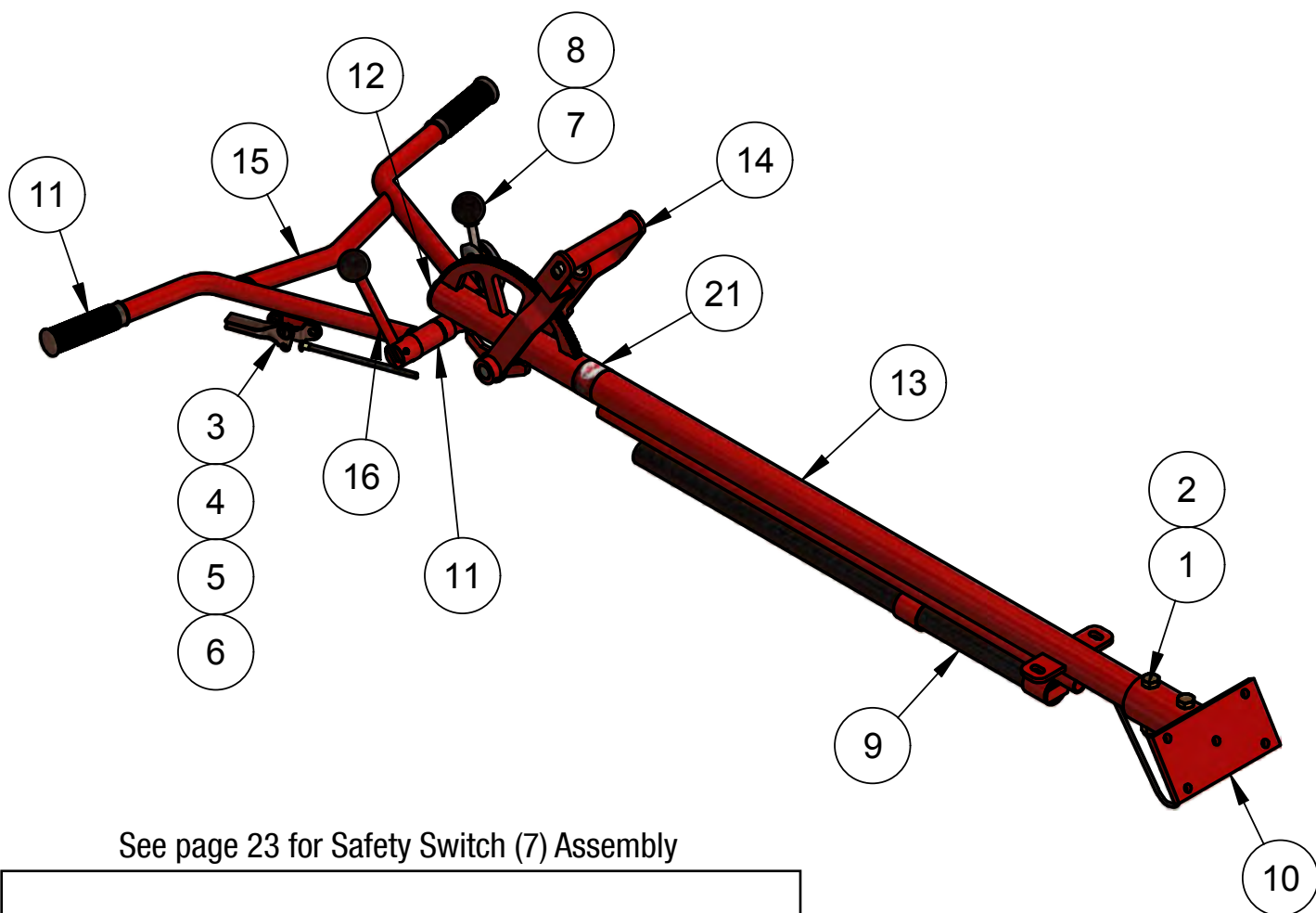
SECTION 1 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
-	063975	HANDLE, PRO WALK-BEHIND, FINE PITCH ASSEMBLY (2016)	1
-	070320	ASSEMBLY, MODIFIED FINE PITCH HANDLE W/ THROTTLE CABLE	1
1	010075	FASTENER, HHCS 1/2"-13 X 3"	2
2	011238	FASTENER, HEX NUT NYLOCK 12"-13	2
3	078505	FASTENER, SCREW HEX DRIVE 1/4"-20 X 3/8 W/ THREAD LOCKING (OLD PART 015410)	1
4	015739	KNOB FOR PITCH CONTROL	1
5	015740	FASTENER, PIN SPIRAL 3/16" X 1-3/4"	1
6	015742	THRUST BEARING	1
7	015743	BUSHING FOR PITCH CONTROL	1
8	015745	RETAINING RING	1
9	015747	PIN, SPIRAL 3/16" X 1-3/8"	1
10	015748	CABLE FOR PITCH CONTROL, LONG	1
-	059146	FASTENER, NUT M8 (NOT SHOWN)	2
11	015752	BLOCK, CABLE SUPPORT	1
12	015753	PULLEY FOR CABLE	1
13	015754	PIN, 3/8" X 1-3/8"	1
14	015768	FASTENER, SHCS 1/4"-20 X 1/4"	1
15	015769	CARRY BAR	1
16	034201	BRACKET, LONG HANDLE FOOT PAD MOUNT	1
17	061403	SCREW SHAFT FOR PITCH CONTROL	1
18	061404	SLIDE BUSHING	1
19	034285	WELDMENT, LONG HANDLE	1
20	048354	HANDLE BAR GRIP	2
21	065053	ASSEMBLY, SAFETY SWITCH	1
22	065054	BASE FOR HANDLE ADJUSTMENT	1
23	065055	STEM, HANDLE ADJUSTMENT	1
24	059168	SCREW M5 X 8MM	2
25	062705	FASTENER, BOLT M6x20 -8.8-DIN-2	2
26	062707	FASTENER, CAP NUT M6-DIN-2	2
27	065442	FASTENER, SPRING WASHER TANG ENDS	2
28	059105	ASSEMBLY, THROTTLE LEVER	1
-	070118	ASSEMBLY, THROTTLE CABLE (NOT SHOWN)	1
29	059172	PIN, SPRING	1
30	065056	BALL GRIP	1
31	066650	WELDMENT, HANDLE BAR	1

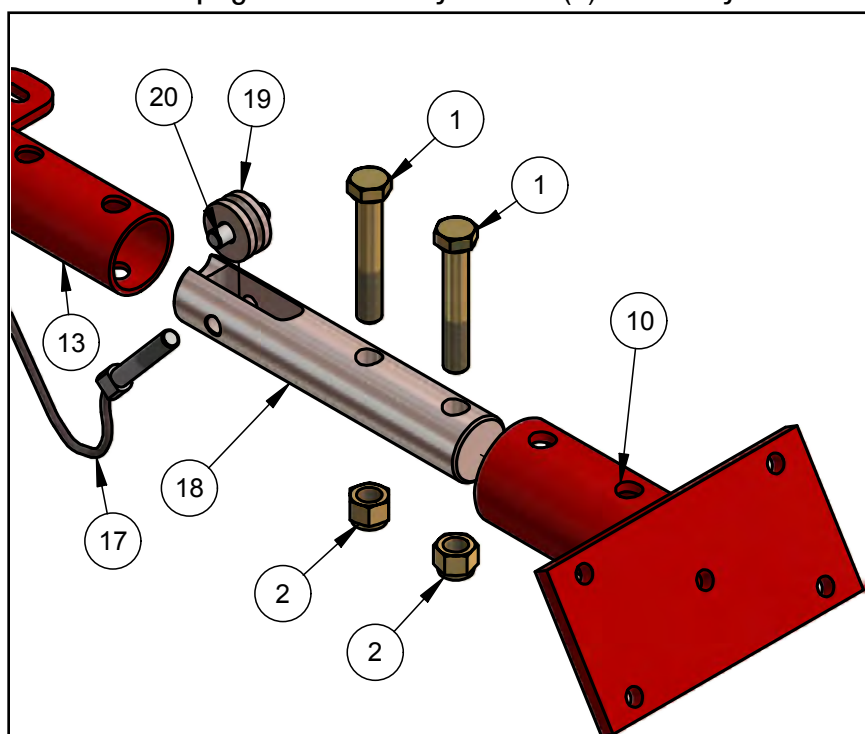
See page 21 for Safety Switch (21) Assembly

SECTION 4 PARTS

Handle, Rapid Pitch, Illustration



See page 23 for Safety Switch (7) Assembly

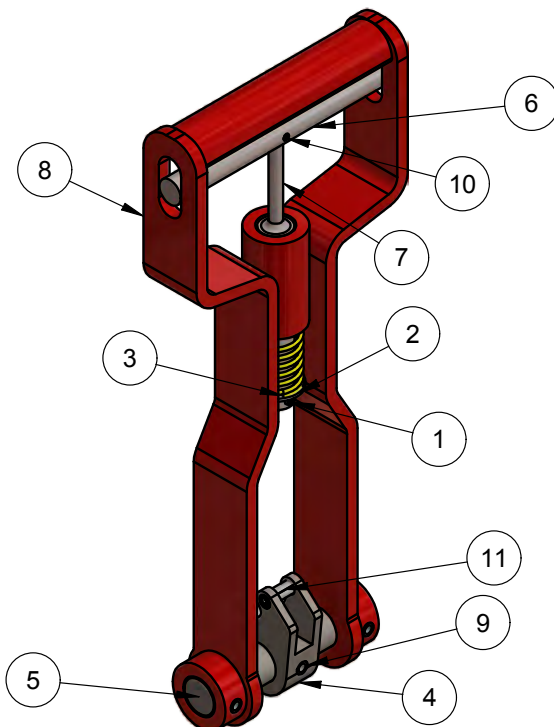


Handle, Rapid Pitch, Parts List

SECTION 4 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
-	070300	ASSEMBLY, RAPID PITCH HANDLE	-
1	010075	FASTENER, HHCS 1/2-13 X 3 GR 8	2
2	011238	FASTENER, NUT HEX NYLOK 1/2-13	2
3	070118	THROTTLE AND CABLE ASSEMBLY	1
4	010568	FASTENER, RHMS 10-32 X 1/2", GRADE 8	2
5	010570	FASTENER, HEX NUT, 10-32	2
6	032358	FASTENER, NO. 10, EXTERNAL-TOOTH WASHER	4
7	018409	ASSEMBLY, SWITCH SAFETY COMPLETE	1
8	013370	FASTENER, RHMS, 10-32 X 3/8"	2
9	015769	BAR, CARRY F/ WALK-BEHINDS	1
10	034201	BRACKET, WB LONG HANDLE FOOT PAD MTG	1
11	048354	GRIP, HANDLE (7/8"ID)	2
12	061014	PLUG, FINISHING F/ 1-3/4 OD TUBING	1
13	066627	HANDLE WELDMENT	1
14	066639	PITCH ADJ. HANDLE	1
15	066650	HANDLE BAR WELDMENT	1
16	066655	ADJUSTING BOLT ASSEMBLY	1
17	064978	CABLE, PITCH CONTROL	1
18	015752	BLOCK, CABLE SUPPORT	1
19	015753	PULLEY, CABLE	1
20	015754	PIN, 3/8" X 1-3/8, CABLE PULLEY	1
21	067306	DECAL, ALLEN	1
22	059146	FASTENER, NUT, M8	2

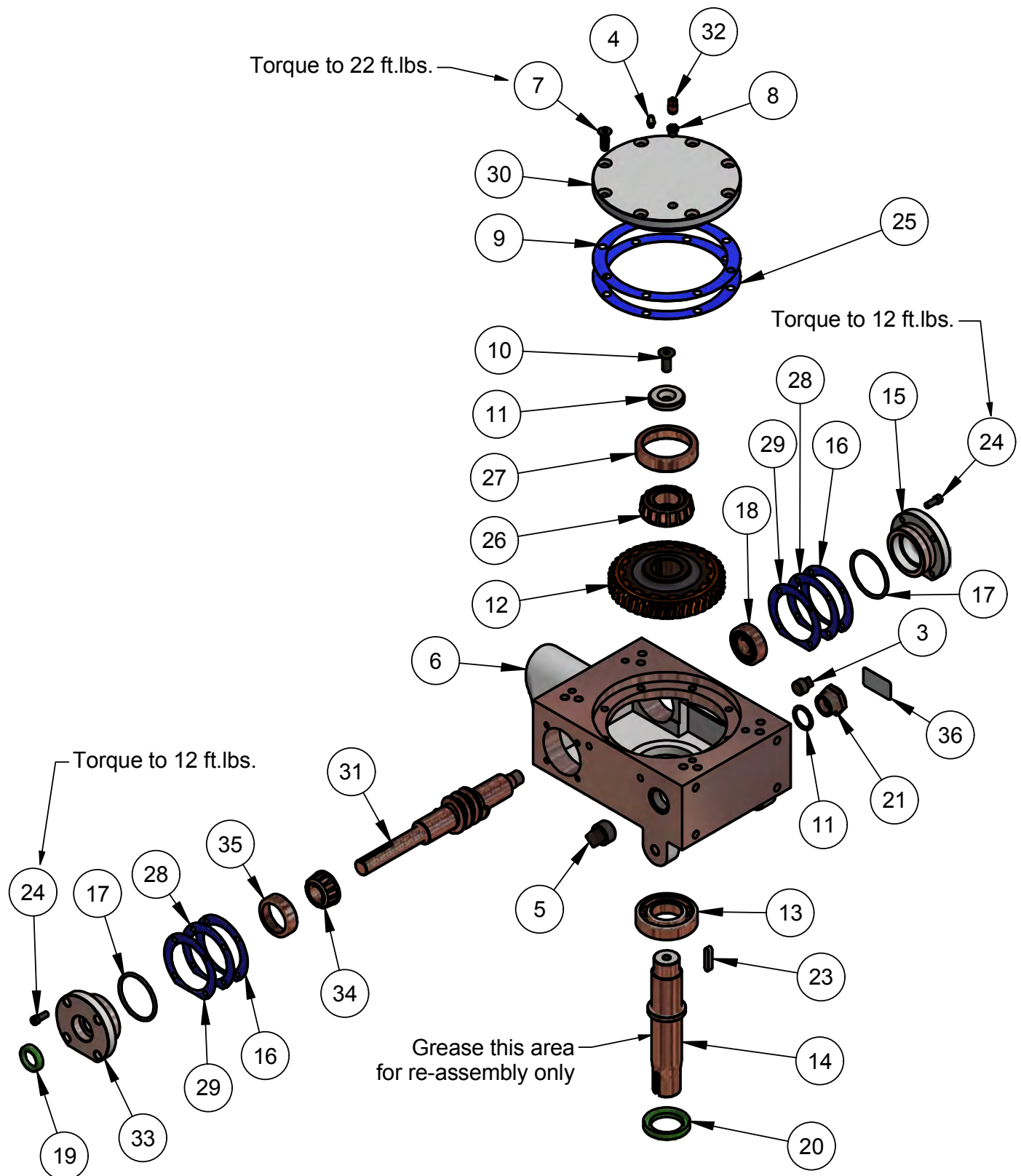
Item #14 Detail



ITEM	PART NO.	DESCRIPTION	QTY
-	066639	ASSEMBLY, PITCH HANDLE, POSITIVE PITCH	-
1	066628	ROLL PIN, 3/16" X 3/4"	1
2	066629	SHIM, ALUMINUM	1
3	066630	COMPRESSION SPRING	1
4	066635	LINKAGE F/ CABLE	1
5	066636	PIVOT PIN	1
6	066637	HANDLE, PLUNGER PULL	1
7	066638	GEAR STOP, PLUNGER	1
8	066643	HANDLE WELDMENT	1
9	066654	ROLL PIN, 1/4" X 1-1/4"	3
10	066660	ROLL PIN, 1/8" X 1/2"	1
11	069496	ROLL PIN, 1/4" X 3/4"	1

SECTION 1 PARTS

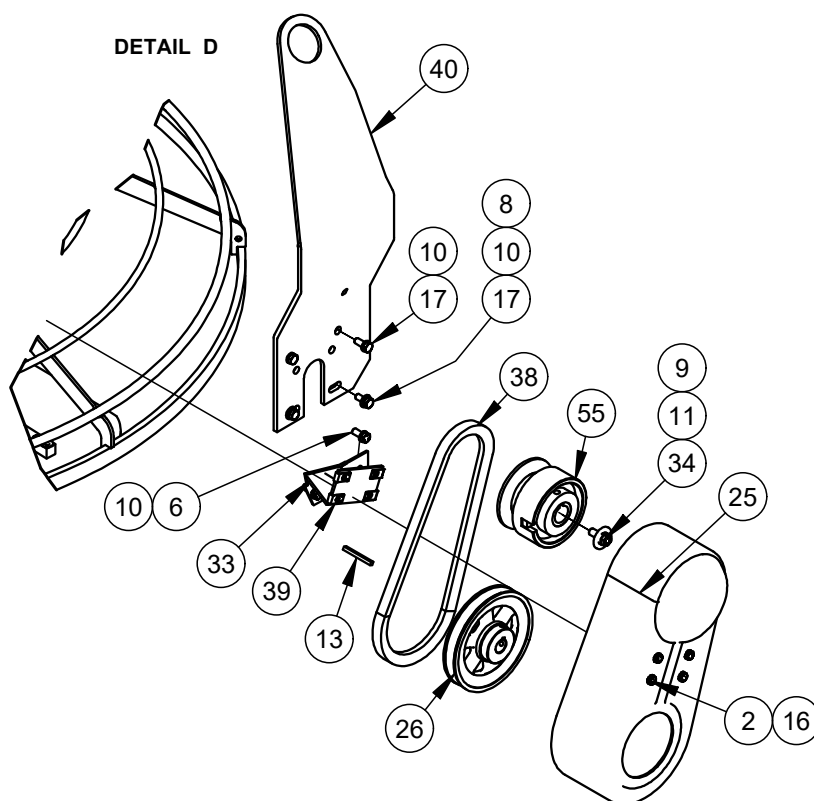
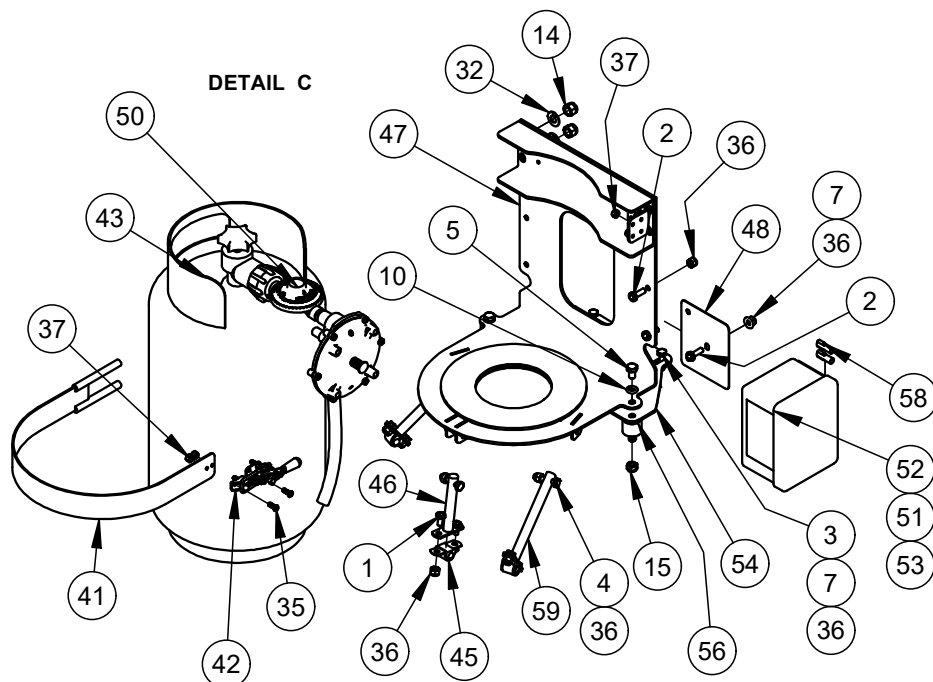
Gear Box Assembly, Illustration



Gear Box Assembly, Parts List

SECTION 1 PARTS

ITEM	PART #	DESCRIPTION	QTY
-	015202	STANDARD GEAR BOX ASSEMBLY	1
1	001003	GREASE, MOBILITH SCH220	.094
2	048299	OIL, ALLEN ENGINEERING GEARBOX	.757/LT
3	010498	PLUG, 3/8 NPT BI SQ HD PIPE	2
4	010513	FITTING, 1/4-28 NPT STR GREASE	1
5	012953	PLUG, 3/4 NPTF BI SQ HD PIPE	1
6	015204	GEAR BOX,MACHINE FINISHED	1
7	015205	FASTENER, SCREW FHSSS 5/16-18 X 1	8
8	015209	VALVE 1/8 NPT-27 RELIEF	1
9	015210	GASKET .005 THICK, TOP COVER	AS REQ.
10	015212	FASTENER, SCREW FHSS 3/8-16 X 1 LH	1
11	015213	WASHER PRESSURE	1
12	015216	GEAR,BRONZE RH	1
13	015217	BEARING, RADIAL BALL	1
14	015219	SHAFT, MAIN MACH FINISHED	1
15	015221	CAP, GEAR BOX END	1
16	015222	GASKET, END CAP & FLANGE .005	AS REQ.
17	015660	O-RING, GEAR BOX END CAPS	2
18	015663	BEARING ANGULAR CONTACT	1
19	015670	SEAL, OIL CR# 7455V	1
20	015671	SEAL, OIL CR# 13661	1
21	015672	GAUGE, 3/4-14 NPT PORTHOLE VIEW	1
22	015673	O-RING, 15/16x1-3/16x1/8 BUNA	1
23	015696	KEY, .25x1.25 LG HARD RAD	1
24	017314	FASTENER, SHCS 1/4-20 X 5/8	8
25	020018	GASKET .003 THICK, TOP COVER	AS REQ.
26	022073	BEARING TAPERED ROLLER	1
27	022074	BEARING RACE	1
28	022185	GASKET, END CAP & FLANGE .002	AS REQ.
29	022186	GASKET, END CAP & FLANGE .003	AS REQ.
30	015208	COVER-GEAR BOX MACH. FINISHED	1
31	026740	SHAFT, INPUT RH GEAR BOX	1
32	032745	PLUG, PLASTIC 1/8" P18-27 (TRANSPORT ONLY)	1
33	015223	FLANGE, GEAR BOX (4 HOLE)	1
34	015668	BEARING, TAPERED ROLLER	1
35	015669	BEARING RACE	1
36	067323	DECAL, GEARBOX OIL / SPIDER GREASE	1



SECTION 1 PARTS

Power Unit - 446 Duromax Parts List

ITEM	PART NO.	DESCRIPTION	QTY
1	010001	FASTENER, HHCS 1/4-20 X 1/2	6
2	010002	FASTENER, HHCS 1/4-20 X 3/4	7
3	010003	FASTENER, HHCS 1/4-20 X 1	2
4	010004	FASTENER, HHCS 1/4-20 X 1-1/4	3
5	010018	FASTENER, HHCS 5/16 -18 X 1/2	2
6	010019	FASTENER, HHCS 5/16-18 X 3/4	2
7	010081	FASTENER, FW 1/4	3
8	010082	FASTENER, FW 5/16	2
9	010085	FASTENER, FW 1/2	1
10	010090	FASTENER, LW 5/16	8
11	010091	FASTENER, LW 3/8	5
12	010102	FASTENER, HEX NUT 3/8-16	4
13	010273	KEY, 3/16 SQ X 2	1
14	010464	FASTENER, HEX NUT NYLOK 3/8-16	6
15	012612	FASTENER, HEX NUT NYLOCK 5/16-18	2
16	012753	FASTENER, LW 1/4	4
17	012974	FASTENER, HHCS 5/16-24 X 3/4	4
18	015202	GEARBOX, STD 20:1	1
19	015674	FASTENER, STDBLT 3/8-16 X 1-3/4	8
20	015677	RING, Ø7/16 E-STYLE RETAINING	2
21	015678	PIN, YOKE ARM	1
22	015690	WASHER, RETAINING FOR TROWELS	1
23	015693	PLUG, PLASTIC CAP	1
24	015696	KEY, .25x1.25 LG HARD RAD	1
25	015703	BELT GUARD, LARGE PLASTIC	1
26	015707	PULLEY, 3/4 BOREx5.73 OD V-GRV	1
27	015711	FASTENER, FHSCS 3/8-16 x 3/4	4
28	015821	CAP, PRESSURE PLATE	1
29	015822	THRUST BEARING	1
30	015824	PLATE, PRO RIDER/WALKER PRESSURE	1
31	017264	YOKE, TROWEL	1
32	017751	FASTENER, FW 3/8	6
33	020977	BRACKET, BELT GUARD MTG TW	1
34	021368	FASTENER, SCREW 3/8-24X1 HEX HD CAP	1
35	029349	FASTENER, SCREW 8-32 X 1/2" LONG ZINC PLATED	6
36	029671	FASTENER, HEX NUT 1/4-20 NYLOCK	14

Power Unit - 446 Duromax Parts List Continued

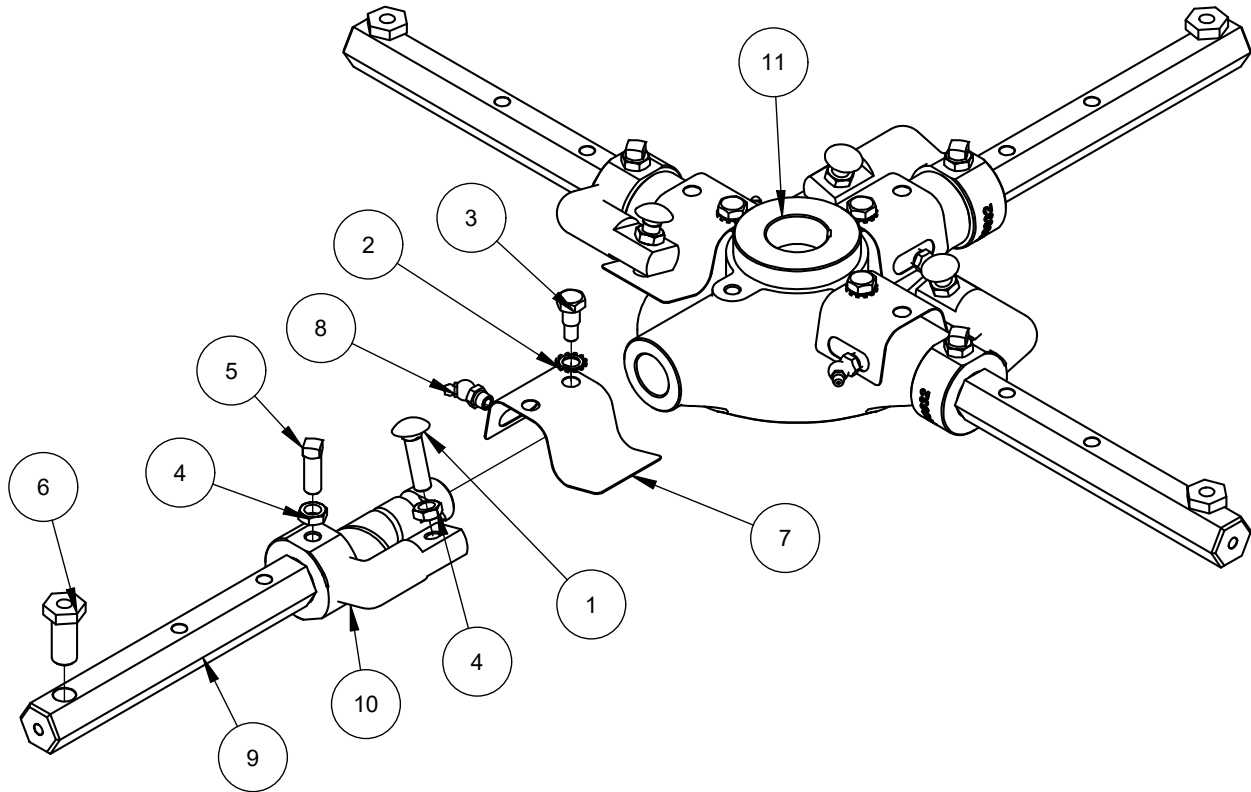
SECTION 1 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
37	039100	FASTENER, HEX NUT NYLOCK 8-32	6
38	041324	V-BELT	1
39	047546	PAL NUT- 1/4-20	4
40	049771	PLATE, WALKBEHIND LIFTING	1
41	055609	TANK RETAINER STRAP	1
42	055770	CLAMP	1
43	055773	PROPANE TANK	1
44	061281	RING, 446 TORQUE CONVERTER	1
45	078342	VIBRATION DAMPENING CLAMP, 3/8	3
46	078344	WELDMENT, CLAMP MNT BAR F/ 436/446DF	1*
47	078346	BRACKET, PROPANE F/ 436/446WB DUROMAX	1
48	078347	PLATE, BATTERY BOX MNT	1
49	078351	ENGINE, XP18HPX DUROMAX DF	1
50	079343	PROPANE REGULATOR	1
51	078352	BATTERY, 12V F/ 436/446DF	1
52	078353	BOX, BATTERY F/ 12V 436/446DF	1
53	078354	CHARGER, FOR 12V BATTERY	1
54	078356	PLATE, LOWER PROPANE BRKT	1
55	078507	ASSEMBLY, CLUTCH 1" BORE	1
56	079191	ISOLATOR, 70A DUROMETER 1 x 5/16-18	2
57	079363	FASTENER, SHCS 1/2-13 X 1-1/4 RH	1
58	079376	TERMINAL, PUSH-ON FEMALE FULLY INSULATED 12-10GA	2
59	079454	WELDMENT, CLAMP MNT BAR F/ 446DF	2*
60	081134	SPIDER ASSEMBLY, FOR PRO446-DF	1

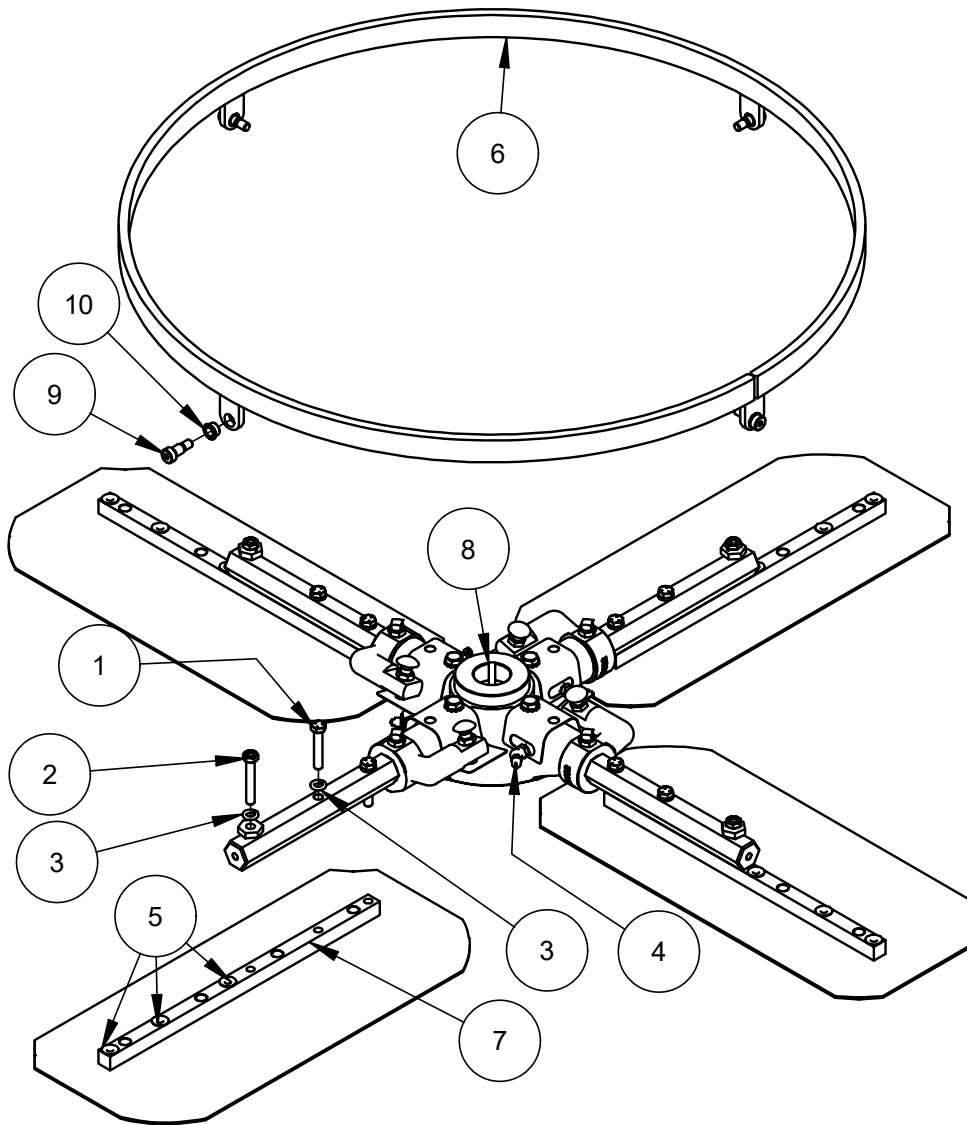
*Note: Tank tray 078346 may use QTY 2 079454 support or QTY 1 078344 support or QTY 2 of 079454 and QTY 1 of 078344 support.

SECTION 1 PARTS

446 Spider Boss, Illustration & Parts List



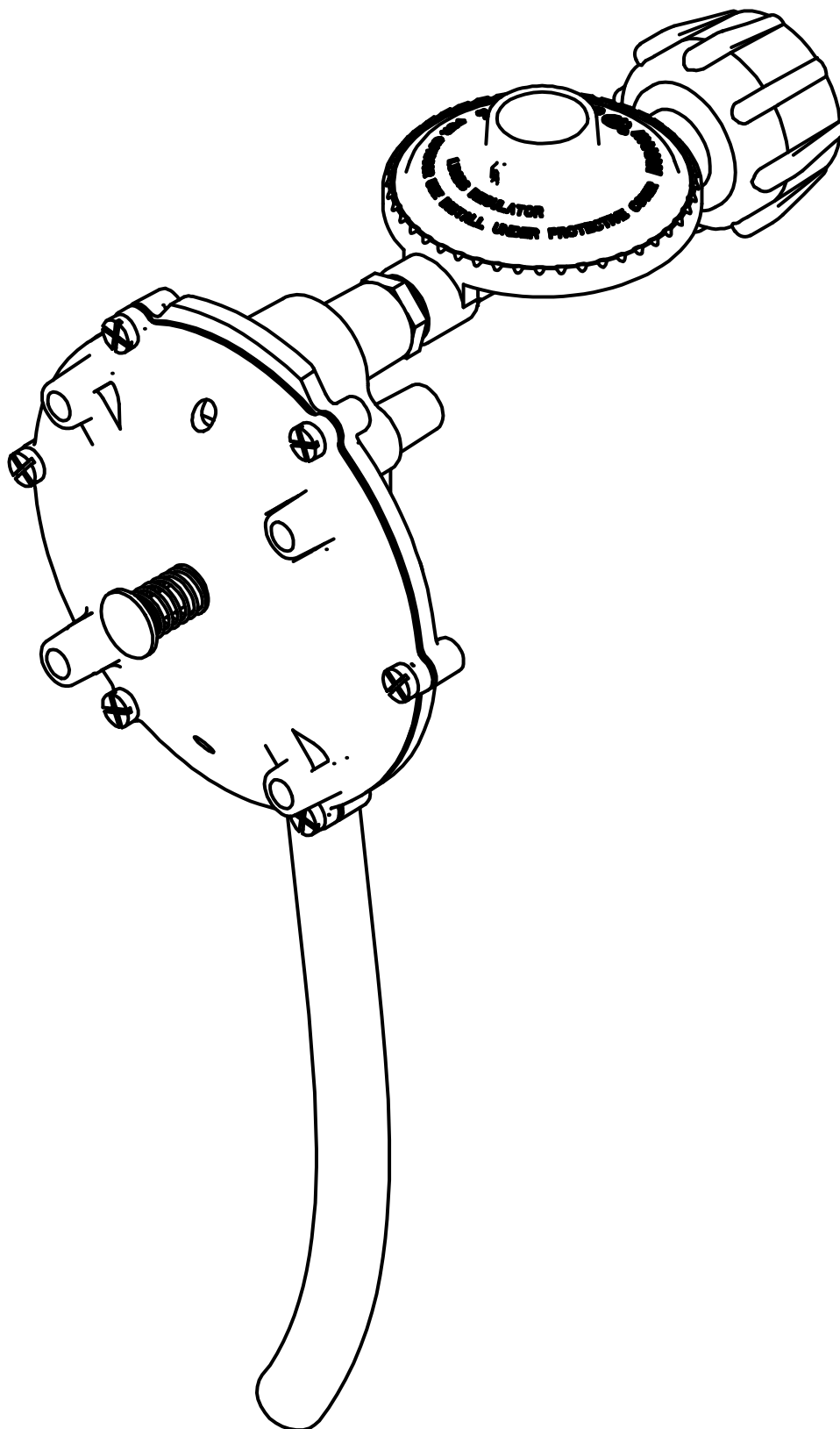
ITEM	PART NO.	DESCRIPTION	QTY
1	012990	FASTENER, CABLT 3/8-16 X 1-1/4"	4
2	015682	WASHER, 3/8 EXT TOOTH LOCK	4
3	015683	BOLT, 3/8-16 X 7/8 DOG PT HEX HD CAP	4
4	015684	FASTENER, NUT HEX JAM 3/8-16	8
5	015686	FASTENER, SQHSS 3/8-16 X 1	4
6	015688	FASTENER, 9/16-18 NF ADJ/MACH SCRW	4
7	016920	SPRING CLIP, UNIVERSAL SPIDERS	4
8	024755	FITTING, 1/8-27 NPT 45° GREASE	4
9	024794	TROWEL ARM, STD 46" SPIDER (PAINTED)	4
10	033032	LIFT LEVER, 1" (UNIVERSAL) STANDARD RIDING TROWELS	4
11	064221	KIT, SPIDER BOSS, 4 BLADE UNIVERSAL	1



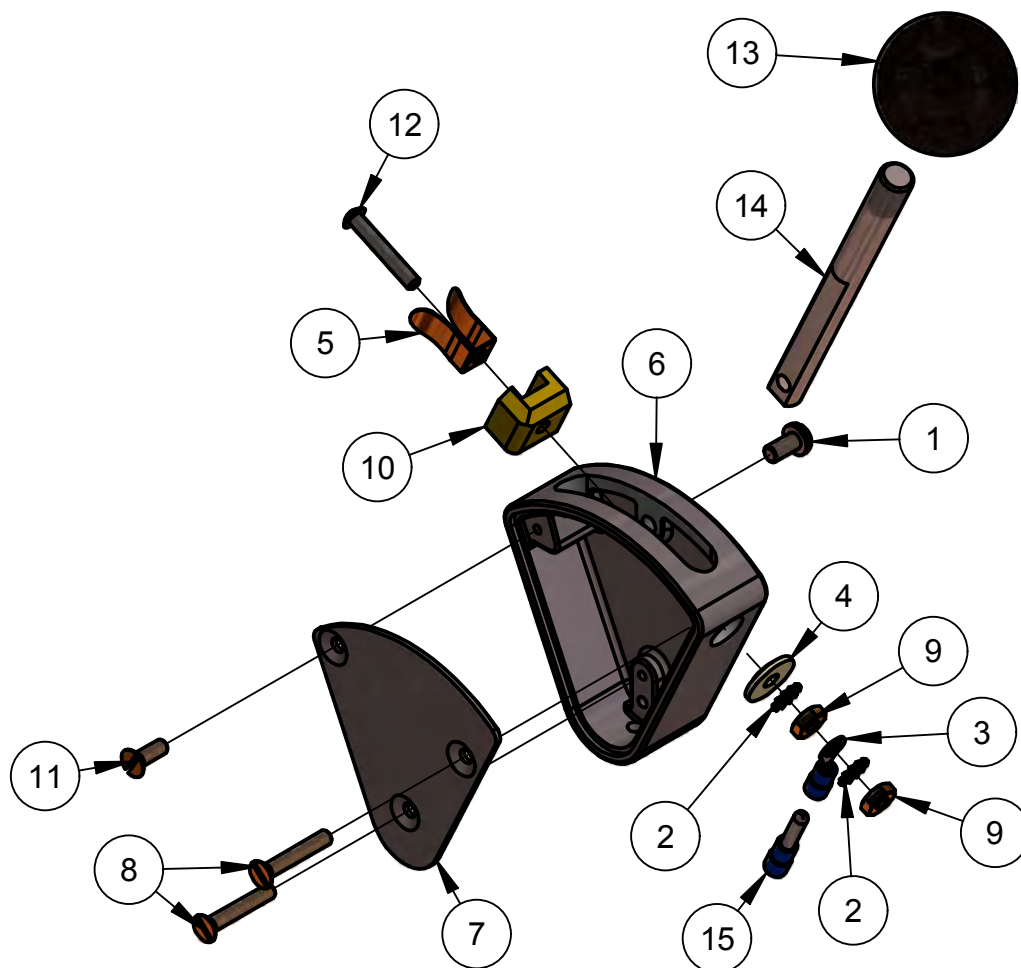
ITEM	PART NO.	DESCRIPTION	QTY
1	010023	FASTENER, HHCS 5/16-18 X 1-3/4	8
2	010024	FASTENER, HHCS 5/16-18 X 2	4
3	010090	FASTENER, LW 5/16	12
4	015692	CAP, Ø1/4 RED GREASE	4
5	015694	PLUG, RED PLASTIC TAPERD	12
6	015805	RING, 446 STD STABILIZER	1
7	016094	TROWEL BLADE, COMBO 8 X 18 SILVER	4
8	024812	SPIDER ASSY, 1200 SFC LH-SOM	1
9	025091	FASTENER, 3/8 SHOULDER BOLTx1/2 LONG	4
10	025092	BUSHING, 3/8x1/2x5/16 BRONZE	4

SECTION 1 PARTS

Propane Regulator Illustration

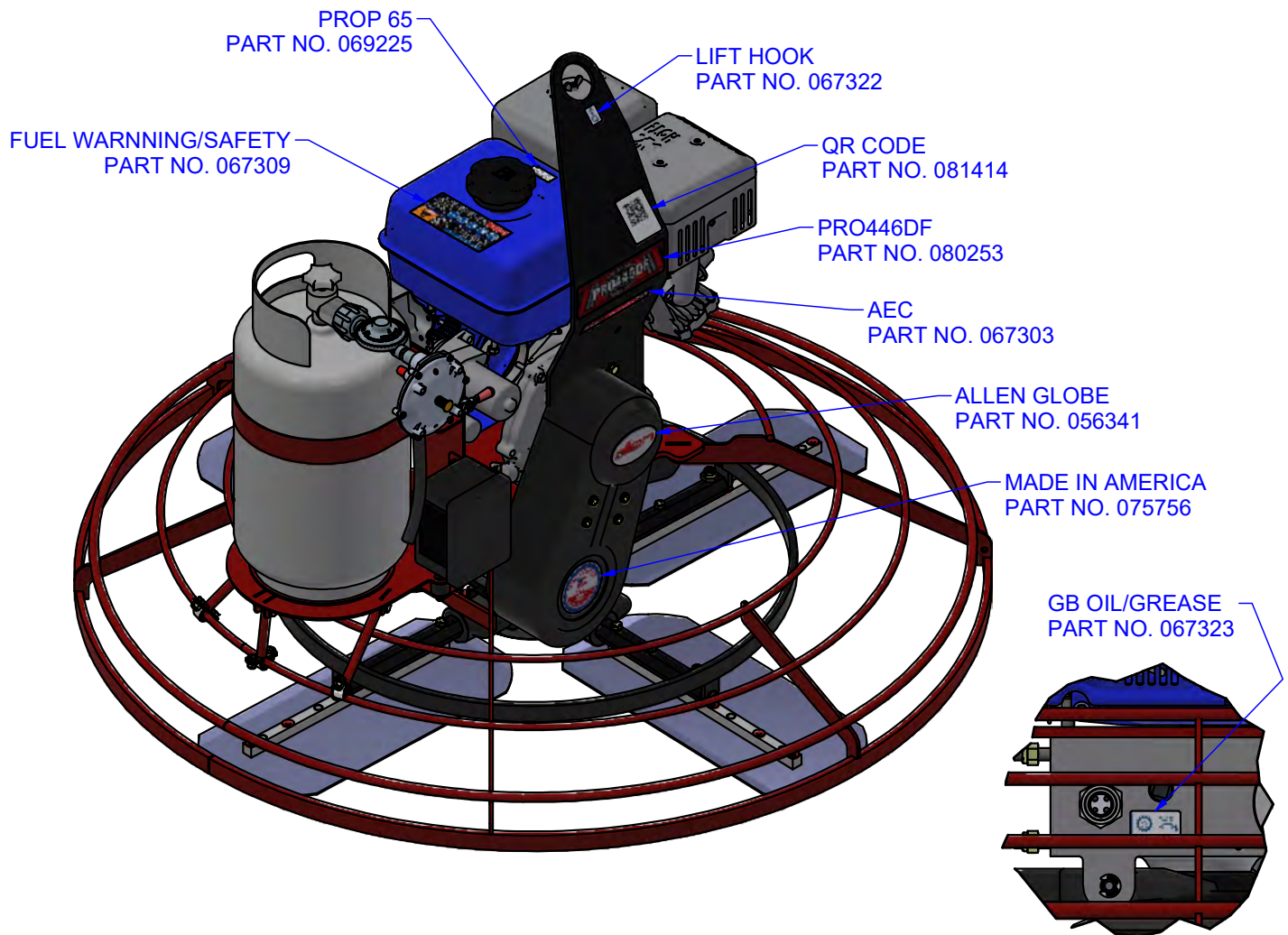


ITEM	PART NO.	DESCRIPTION	QTY
-	079343	2ND STAGE REGULATOR XP18HPX	1



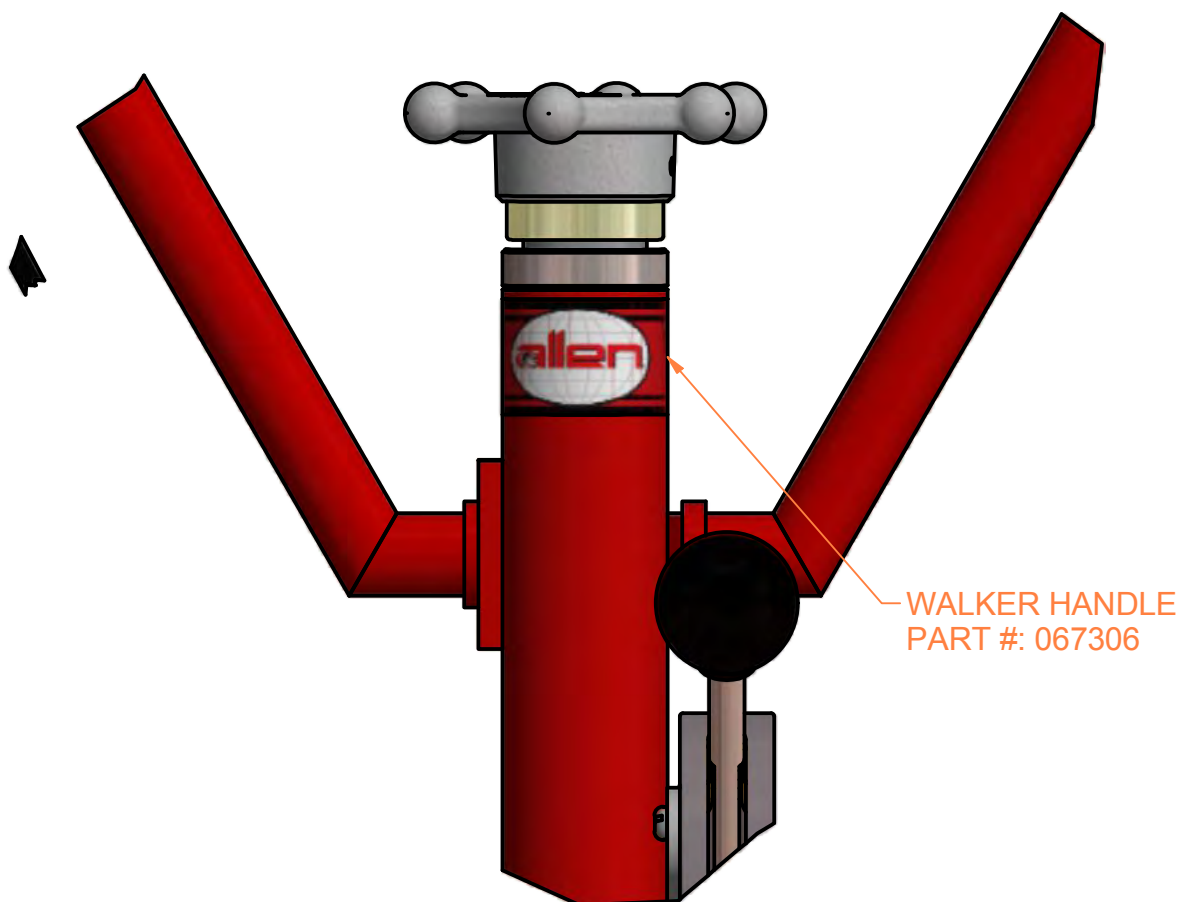
ITEM	PART NO.	DESCRIPTION	QTY
-	018409	SAFETY SWITCH ASSEMBLY	1
1	013370	FASTENER, RHMS 10-32 X 3/8	1
2	013704	FASTENER, WASHER, LOCK EXT STAR 8-32	2
3	016137	TERMINAL, #10 14-16 GA RING	1
4	018264	INSULATOR RUBBER SAFETY SWITCH	1
5	018267	CLIP CONTACT - PT SAFETY SWITCH	1
6	018324	HOUSING SAFETY SWITCH MF	1
7	018326	COVER SAFETY SWITCH MF	1
8	018404	FASTENER, FHMS SLT BRASS 8-32 X 1	2
9	018406	FASTENER, NUT BRASS HEX 8-32	2
10	018407	BLOCK CONTACT FOR PT SAFE SWITCH	1
11	018623	FASTENER, FHMS BRASS 8-32 X 3/8	1
12	018624	FASTENER, RHMS SLT 8-32 X 1	1
13	034072	KNOB, POSITIVE LOCK	1
14	034316	LEVER, SAFETY SWITCH F/ PT	1
15	038947	CONN, .156 BULLET MALE 16-14 (Used on opposite end of wire)	1

Section 2: DECALS



SECTION 2 DECALS

Decals - Handle (Kit #: 080252)



Revision Detail

MANUAL REVISION DETAIL

REVISION #	REVISION DATE	REVISION REFERENCE #	REVISION BY
-	09/26	Initial Release	MK



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PARAGOULD, ARKANSAS 72450
870.236.7751
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