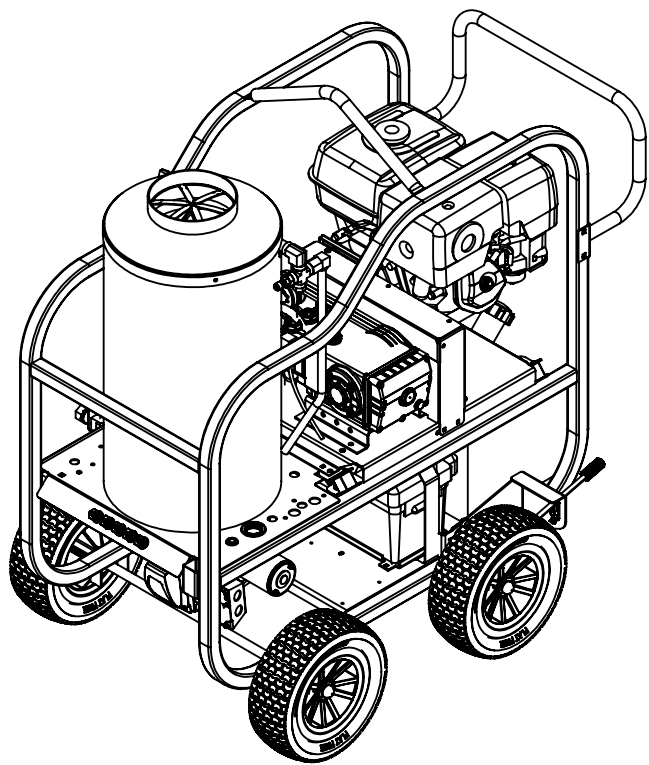


MAGNUM PORTABLE HOT WATER BELT DRIVE PARTS MANUAL



PART NUMBER	GPM	PSI	ENGINE	PUMP
M4012VB-40HC	4.0	4000	HONDA GX390	CAT
M4012VB-40HG	4.0	4000	HONDA GX390	GENERAL
M4012VB-42HM	4.0	4200	HONDA GX390	MAGNUM
M5012VB-42VM	5.0	4200	VANGUARD 18 HP	MAGNUM

REV 1.2 STARTING SERIAL NUMBER 17-17549

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EXTREMELY HAZARDOUS OR DANGEROUS SITUATION THAT WILL RESULT IN DEATH OR SERIOUS INJURY IF NOT OBEYED OR AVOIDED.



DO NOT FILL OR REFILL THE ENGINE WITH FUEL WHILE THE ENGINE IS RUNNING. STOP THE ENGINE, RELEASE THE PRESSURE IN THE HOSE AND ALLOW THE ENGINE TO COOL FOR AT LEAST 5 MINUTES BEFORE REFUELING.

DO NOT SMOKE WHEN REFILLING ANY FUEL TANKS.

DO NOT REFUEL INDOORS.

REFILL ONLY IN A WELL VENTILATED AREA.

DO NOT OVER FILL TANKS. REFILL TANKS SLOWLY TO AVOID SPILLING FUEL.

DO NOT RESTART MACHINE UNTILL ALL FUEL SPILLS HAVE BEEN THOROUGHLY CLEANED UP AND ANY RESIDUAL FUEL HAS EVAPORATED.

DO NOT STORE THE MACHINE NEAR OPEN FLAME, HEAT SOURCE OR ANY DEVICE THAT COULD CREATE A SPARK.



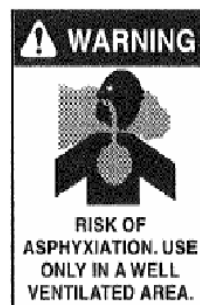
DO NOT SPRAY FLAMMABLE LIQUIDS.

DO NOT OPERATE PRESSURE WASHER IN THE PRESENCE OF FLAMMABLE LIQUIDS, VAPORS, GASSES, COMBUSTIBLE DUST OR ANY OTHER COMBUSTIBLE MATERIALS.

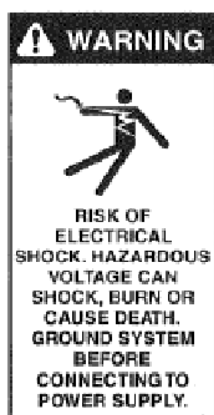
DO NOT USE CRANKCASE OR WASTE OIL.

DO NOT PUT GASOLINE IN ANY TANK INTENDED FOR FUEL OIL.

USE ONLY No.1 OR No.2 HEATING OIL OR DIESEL FUEL IN THE BURNER TANK.



DO NOT OPERATE PRESSURE WASHER IN AN ENCLOSED AREA. **USE ONLY IN A WELL VENTILATED AREA.** PROPER VENTILATION AND OXYGEN SUPPLY IS NEED TO SUSTAIN YOUR LIFE AND FOR THE SAFE AND EFFICIENT OPERATION OF THIS MACHINE.



DO NOT DIRECT THE WATER STREAM OR SPRAY AT ANY ELECTRICAL INSTALLATION OF ANY KIND INCLUDING LIGHTS.

DO NOT USE THE WATER STREAM TO CLEAN THE PRESSURE WASHER.

DO NOT USE EXTENSION CORDS. USE ADDITIONAL HOSES.

DO NOT USE THE PRESSURE WASHER IF THE GFCI, CIRCUIT BREAKER OR THERMAL OVERLOAD PROTECTOR TRIPS.

DO NOT USE WHILE RAINING.

DO NOT USE IF POWER SUPPLY CORD IS DAMAGED.

DO NOT REPAIR POWER SUPPLY CORD. REPLACE IT.

DO NOT ALLOW POWER CORD TO LAY IN STANDING WATER.

USE ONLY FACTORY SUPPLIED CORD SET WITH A PROPERLY GROUNDED RECEPTACLE THAT IS EQUIPPED WITH A GROUND FAULT CIRCUIT INTERRUPTER.

USE ONLY A PROPERLY SIZED AND ISOLATED ELECTRICAL SUPPLY CAPABLE OF THE FULL LOAD AMPERAGE THAT THE PRESSURE WASHER REQUIRES.



DO NOT USE THE PRESSURE WASHER WHILE STANDING ON A LADDER OR SCAFFOLDING.

DO NOT USE WHILE STANDING ON PITCHED ROOFS.

WET SURFACE IS SLIPPERY. DANGER OF SLIP AND FALL.



DO NOT POINT THE WATER STREAM AT ANY PERSONS OR ANIMALS.

DO NOT OPERATE IN THE VICINITY OF CHILDREN.

DO NOT USE THE WATER STREAM TO CLEAN ANY PROTECTIVE CLOTHING OR BOOTS.



USE ONLY FACTORY APPROVED IDENTICAL REPLACEMENT PARTS.

DO NOT CHANGE OR TAMPER WITH FACTORY PRESET ADJUSTMENTS. NEVER DEFEAT OR DISABLE ANY SAFETY DEVICES ON THE MACHINE.



DO NOT OPERATE THE UNIT WITH A MALFUNCTIONING BURNER OR BURNER CONTROL. INSPECT BURNER AND BURNER CONTROL OPERATION BEFORE EACH USE. FAILURE TO DO SO MAY RESULT IN AN EXPLOSION OR FIRE. IF YOU SUSPECT A

PROBLEM WITH THE BURNER, DISCONTINUE USE IMMEDIATELY AND CONTACT YOUR LOCAL AUTHORIZED DISTRIBUTOR.

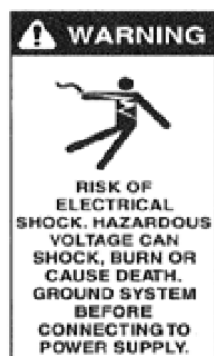
WARNING! (Liquid Petroleum or Natural Gas Fired Units)

FOR YOUR SAFETY, IF YOU SMELL GAS:

1. OPEN WINDOWS.
2. DO NOT TOUCH ELECTRICAL SWITCHES.
3. TURN OFF BREAKER SWITCH SUPPLYING POWER TO UNIT. CLOSE GAS SUPPLY VALVE TO UNIT.
4. EXTINGUISH ANY OPEN FLAME.
5. IMMEDIATELY EVACUATE PREMISES AND CALL YOUR GAS SUPPLIER.
6. MACHINES CAN CAUSE AN EXPLOSION WHEN OPERATED NEAR FLAMMABLE MATERIALS AND VAPORS. DO NOT- USE THIS MACHINE WITH OR NEAR FUELS, GRAIN DUST, SOLVENTS, THINNERS OR OTHER FLAMMABLE MATERIALS.
7. THIS UNIT MUST BE INSTALLED IN COMPLIANCE WITH ALL APPLICABLE GAS CODES. FAILURE TO DO SO COULD RESULT IN INJURY OR DEATH TO YOU OR TO OTHER PERSONNEL.
8. USE NO. 1 OR NO. 2 KEROSENE ONLY IN OIL FIRED MACHINES. NEVER INTRODUCE GASOLINE TO THE FUEL OIL TANK. DOING SO COULD RESULT IN AN EXPLOSION OR FIRE. KEEP THE PROPER FUEL IN THE PROPER TANK.



POTENTIALLY HAZARDOUS OR SITUATION THAT COULD RESULT IN DEATH OR SERIOUS INJURY IF NOT OBEYED OR AVOIDED.



DISCONNECT POWER BEFORE SERVICING THE PRESSURE WASHER.

DISCONNECT SPARK PLUG BEFORE SERVICING THE PRESSURE WASHER.

DO NOT DIRECT THE WATER STREAM OR SPRAY AT ANY ELECTRICAL INSTALLATION OF ANY KIND INCLUDING LIGHTS.



DO NOT TOUCH HOT SURFACES. EG. MUFFLER, BURNER, ENGINE, HEAT EXCHANGER, EXHAUST HEAD.

USE ONLY INSULATED EXTENSION WAND WITH HOT WATER.

DO NOT ALLOW HOSES TO TOUCH HOT SURFACE.



DO NOT USE PRESSURE WASHER WITHOUT PROPER PROTECTIVE WEAR. USE EYE PROTECTION, RUBBER GLOVES, RUBBER BOOTS, AND PROTECTIVE CLOTHING.

DO NOT USE CORROSIVE OR AGGRESSIVE CHEMICALS WITHOUT PROPER PROTECTIVE WEAR.

THIS MACHINE PRODUCES HOT WATER AT VERY HIGH PRESSURES. USE ONLY APPROVED ACCESSORIES RATED FOR HOT WATER AND HIGH PRESSURE.



**POTENTIALLY HAZARDOUS SITUATION
THAT COULD RESULT IN PERSONAL
INJURY OR PROPERTY DAMAGE IF NOT
OBEYED OR AVOIDED.**

DO NOT LEAVE THE PRESSURE WASHER RUNNING UNATTENDED. TURN THE MACHINE OFF AND RELEASE ALL PRESSURE FROM THE SYSTEM.

DO NOT DEFEAT THE TRIGGER GUN SAFETY

DO NOT LOCK THE TRIGGER IN THE OPEN POSITION IN ANY WAY.

KNOW THE MACHINE CONTROLS AND HOW TO QUICKLY SHUT DOWN AND RELEASE ALL PRESSURE IN THE SYSTEM.

DO NOT OPERATE THE MACHINE WITHOUT ALL GUARDS AND PROTECTIVE COVERS IN PLACE.

DO NOT ALLOW ANY PART OF PERSONS OR HOSES TO CONTACT HOT SURFACES.

DO NOT HAVE ENGINE EXHAUST POINTING AT FLAMMABLE MATERIALS.

INSPECT THE PRESSURE WASHER AND HOSES FOR DAMAGED PARTS DAILY.

REPAIR LEAKS AS THEY HAPPEN TO PREVENT FURTHER DAMAGE.

DO NOT OPERATE WITH ANY FAULTY OR DAMAGED COMPONENTS.

DISCONNECT POWER CORD, BATTERY NEGATIVE AND SPARK PLUG BEFORE PERFORMING ANY SERVICE ON THE PRESSURE WASHER.

KEEP ALL HOSES AND POWER CORDS AWAY FROM VEHICLE TRAFFIC.

DO NOT MOVE THE MACHINE BY PULLING ON THE HOSE.

DO NOT LEAVE THE MACHINE EXPOSED TO HARSH ENVIRONMENTS.

DO NOT OPERATE THE MACHINE IN THE RAIN.

DO NOT DIRECT THE HIGH PRESSURE WATER STREAM AT FRAGILE OBJECTS.

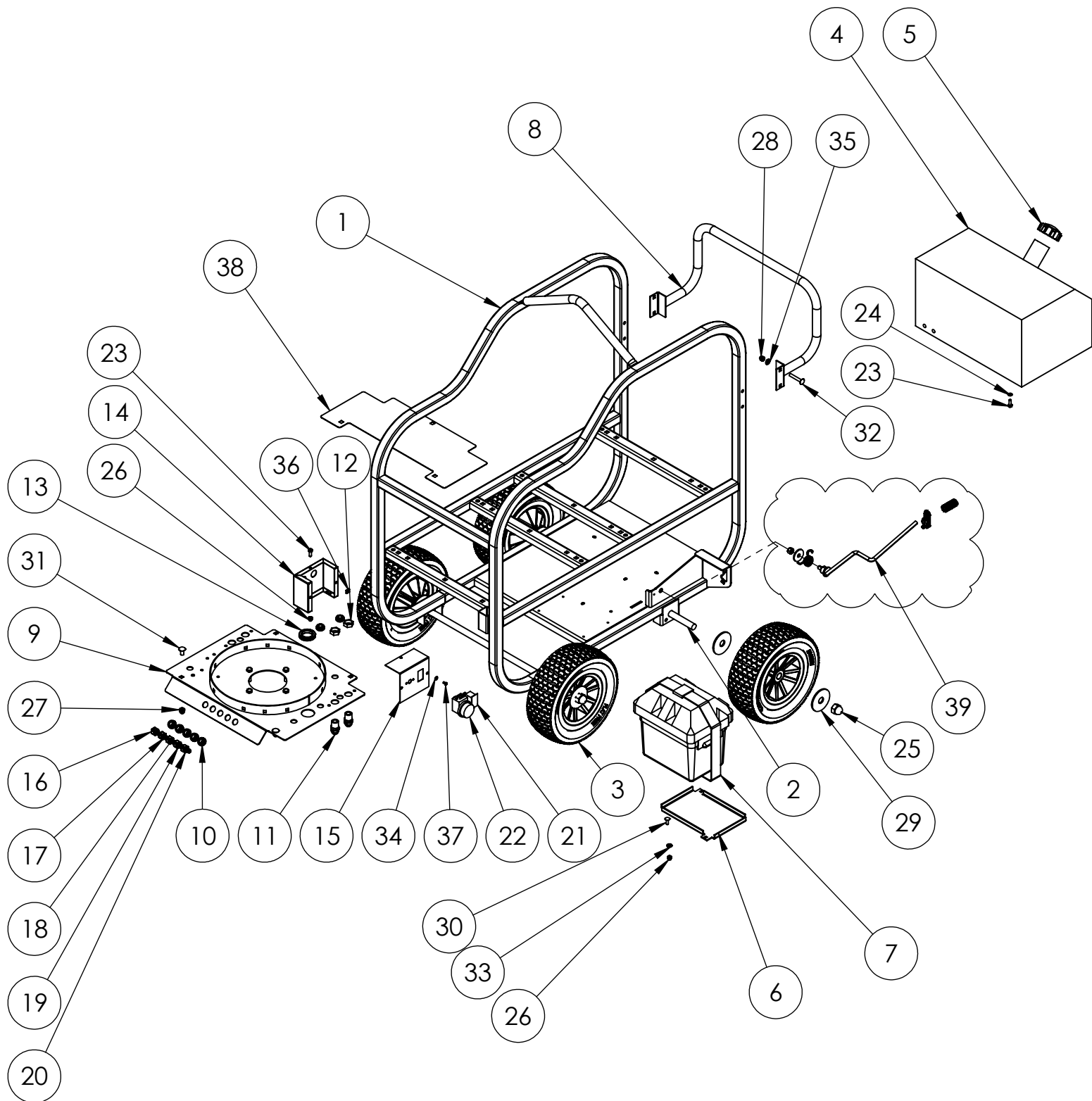
DO NOT USE ANY ACCESSORIES UNLESS THEY ARE RATED AT OR ABOVE THE WORKING PRESSURE AND TEMPERATURE OF THE MACHINE.

ALWAYS USE EYE, FACE, HAND, FOOT, HEARING, AND BODY PROTECTIVE WEAR.

DO NOT OPERATE PRESSURE WASHER IF FATIGUED OR UNDER THE INFLUENCE OF ALCOHOL OR DRUGS. **BE ALERT AT ALL TIMES.**

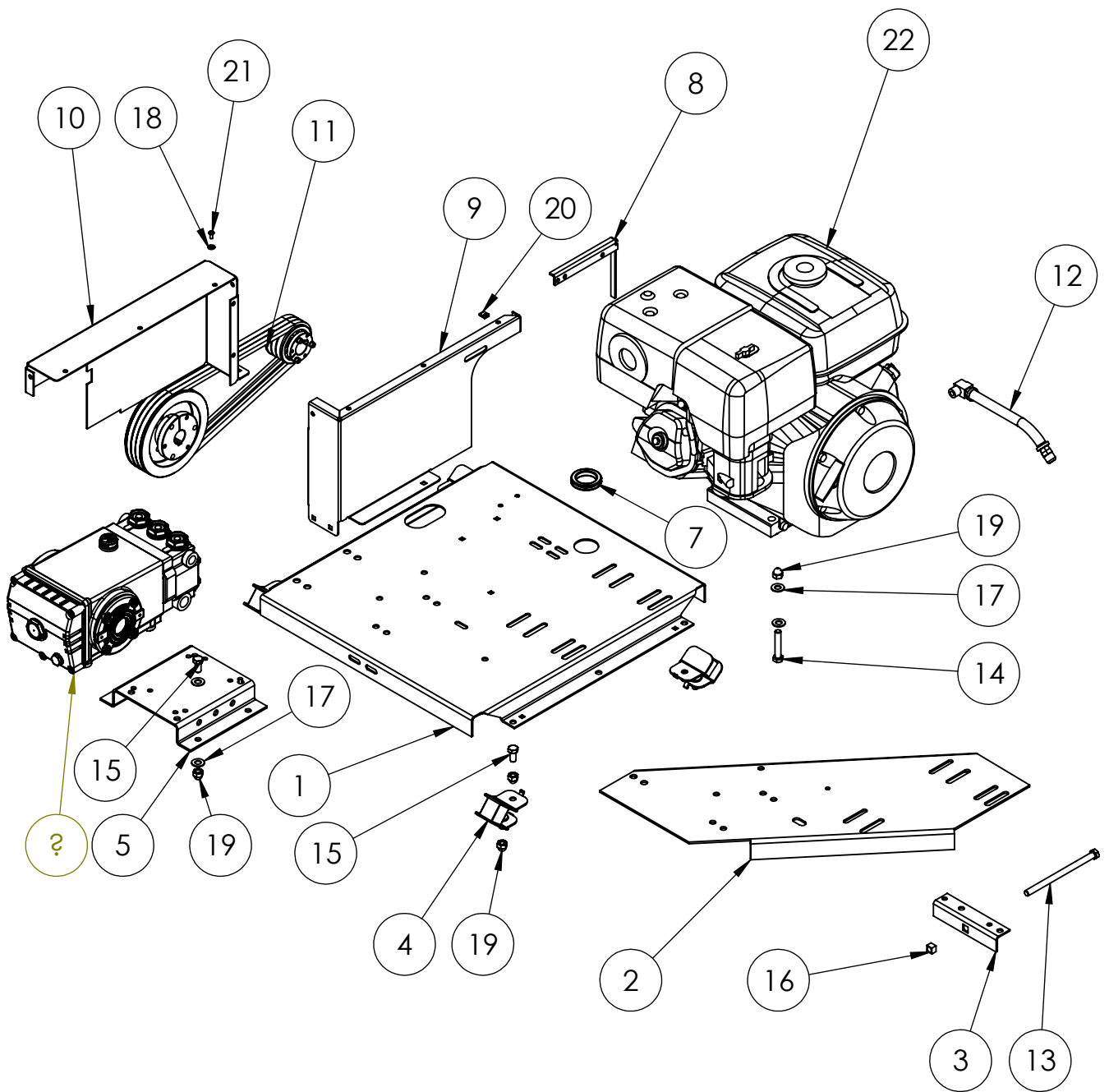
MACHINE VARIATIONS

MODEL NUMBER	M4012VB-40HC	M4012VB-40HG	M4012VB-42HM	M5012VB-42VM
ENGINE	GX390UTQNR2	GX390UTQNR2	GX390UTQNR2	356447-0069-F1
PUMP	5PP3140(L)	HP4040L	M3-2012SL	M3-2012SL
PLUMBING KIT	KPL424HD-MAG	KPL424HD-MAG	KPL424HD-MAG	KPL424HD-MAG
DRIVE KIT	KDR300	KDR315	KDR315	KDR345
COIL TANK ASSY	4 GPM	4 GPM	4 GPM	5 GPM
BURNER HEAD	PRO101	PRO101	PRO101	PRO101
FUEL NOZZLE	21489	21489	21489	2563
SPRAY TIPS	TPK040-GPC	TPK040-GPC	TPK037	TPK045-GPC



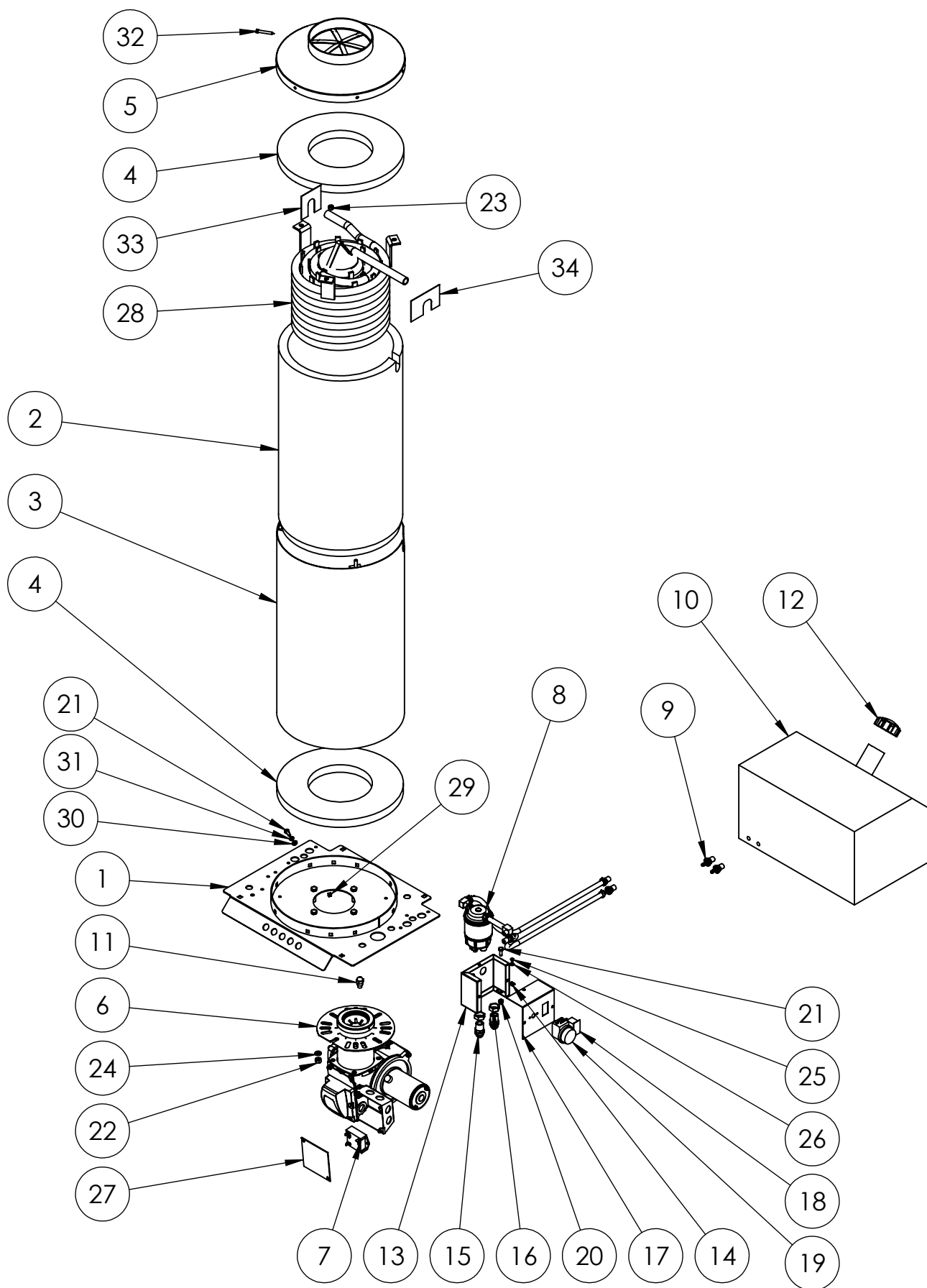
MAIN FRAME ASSY

ITEM NO.	PART NUMBER	DESCRIPTION	/QTY.
1	5011	FRAME, MAGNUM 4 WHEELER, SS	1
2	PAX290T	AXLE, 3/4 X 29"	2
3	DP80065	WHEEL, MAGNUM, 12" FLAT FREE	4
4	520055	FUEL TANK, 8 GAL, POLY, DIESEL	1
5	520014D-GRN	CAP, DIESEL TANK, GREEN	1
6	7009	TRAY, BATTERY BOX	1
7	9082-1	BATTERY BOX, SMALL	1
8	5080	HANDLE, MAGNUM 4 WH, SS	1
9	5014	COIL MOUNT PLATE, MAGNUM 4 WHEELER	1
10	2760	GROMMET, BLACK FOR 3/16 METAL	7
11	LPCG50	CORD GRIP, 1/2"	2
12	8463	NUT, 1/2", CORD GRIP	2
13	2775	GROMMET, BLACK RUBBER FOR 3/16 METAL	1
14	4012	ENCLOSURE, SWITCH, BACK	1
15	4013	ENCLOSURE, SWITCH, FRONT	1
16	965400Q	NOZZLE, QC, CHEM, SIZE 40, 65 DEGREE	1
17	D00040	NOZZLE, QC, SIZE 4, 0 DEGREE	1
18	D15040	NOZZLE, QC, SIZE 4, 15 DEGREE	1
19	D25040	NOZZLE, QC, SIZE 4, 25 DEGREE	1
20	D40040	NOZZLE, QC, SIZE 4, 40 DEGREE	1
21	F04-00701	SWITCH, LIGHTED ROCKER, 12V, RED LENSE	1
22	100538 (2)	THERMOSTAT, 250 DEGREE	1
23	105 042 000 750	HHCS, USS, GR5, 1/4-20 X 3/4	5
24	111 025 000 100	FLAT WASHER, USS, 1/4	2
25	130 121 620 000	3/4-16 JAMB NYLOCK	4
26	130 042 000 000	NYLOCK NUT, USS 1/4-20	5
27	130 061 600 000	NYLOCK NUT, USS, 3/8-16	3
28	130 051 800 000	NUT, NYLOCK, 5/16-18	4
29	101 075 000 100	SAE FLAT WASHER, 3/4	8
30	104 042 000 750	CARRIAGE BOLT, 1/4-20 X 3/4	2
31	104 061 600 750	CARRIAGE BOLT, 3/8-16 X 3/4	3
32	104 051 802 000	CARRIAGE BOLT, 5/16-18 X 2	4
33	111 025 000 100	FLAT WASHER, USS, 1/4	2
34	1314D	WASHER, #10, NYLON	3
35	111 031 200 100	FLAT WASHER, USS, 5/16	4
36	1807D	TINNERMAN NUT, #10, UAB	3
37	1317D	MACHINE SCREW, PHILLIPS HEAD, #10 X 3/8	3
38	5013	COVER, COSMETIC	1
39	MBRK-101	BRAKE KIT	1



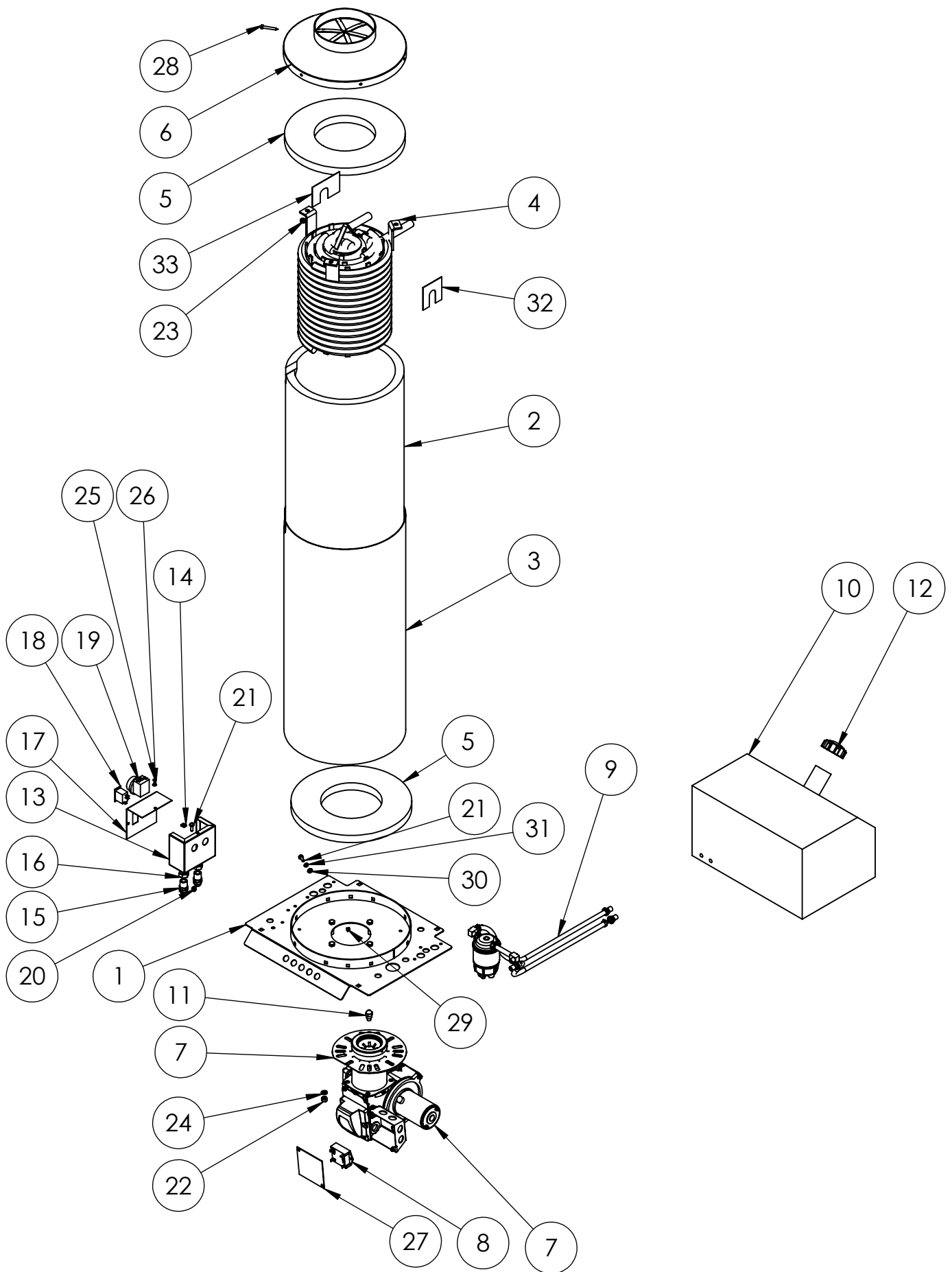
MOTOR PUMP ASSY

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	5018	BASE PLATE, MAGNUM 4 WHEELER, BELT DRIVE	1
2	5019	SUB BASE, MAGNUM 4 WHEELER, BELT DRIVE	1
3	5020	TENSIONER BRACKET, MAGNUM BELT DRIVE	1
4	7227-S30001	VIBRATION ISOLATOR, ANGLED	4
5	5021	PUMP RAIL, MAGNUM 4 WHEEL BELT DRIVE	1
6	TSS1511L	PUMP, GP, 4GPM @ 1450 RPM	1
7	2775	GROMMET, BLACK RUBBER FOR 3/16 METAL	1
8	5086	FINGER GUARD, M4012VB	1
9	5027	BELT GUARD BACK, MAGNUM, GP/AR	1
10	5028	BELT GUARD, MAGNUM, GP/AR	1
11	KDR315	KIT, DRIVE, 2.65 X 6.00, 3VX335 X 3	1
12	AOD010	KIT, OIL DRAIN, GX270-GX390	1
13	155 061 606 000	BOLT, TAP, GR5, HEX, 3/8-16 X 6	1
14	105 061 602 000	HHCS, USS, GR5, 3/8 X 2	1
15	105 061 601 000	HHCS, USS, GR5, 3/8-16 X 1	9
16	11544419	CAPTIVE NUT, 3/8-16	1
17	111 037 500 100	FLAT WASHER, USS, 3/8	10
18	1314D	WASHER, #10, NYLON	7
19	130 061 600 000	NYLOCK NUT, USS, 3/8-16	13
20	1807D	TINNERMAN NUT, #10, UAB	7
21	1317D	MACHINE SCREW, PHILLIPS HEAD, #10 X 3/8	7
22	GX390UTQNR2	HONDA GX390 ENGINE	1



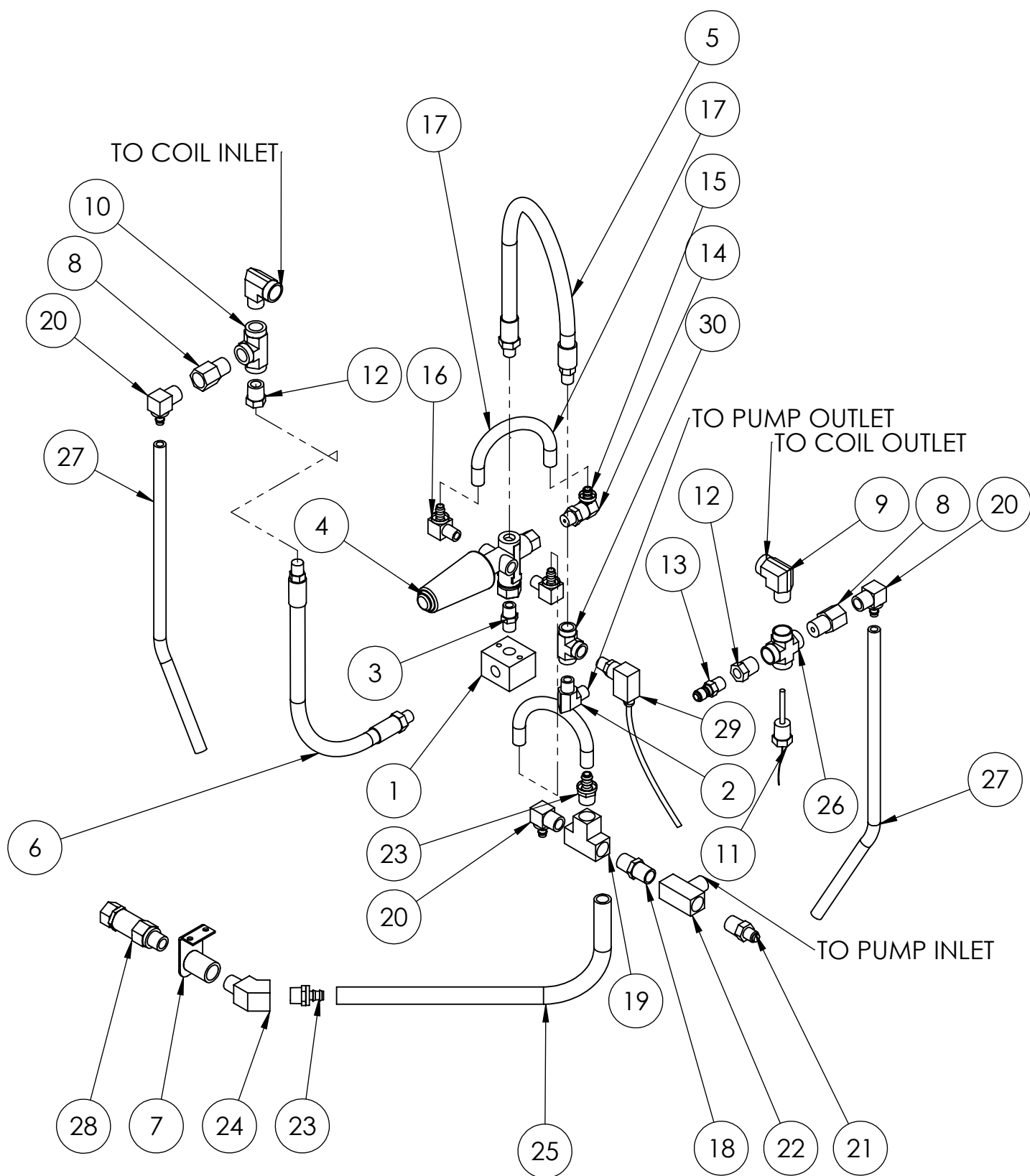
4 GPM COIL TANK ASSY

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	5014	COIL MOUNT PLATE, MAGNUM 4 WHEELER	1
2	PLS-03740-002-1	INSULATION CHAMBER, 4 GPM, VERTICLE	1
3	PCA750-7	COIL SKIN, 4 GPM, 24" SS	1
4	LKE05351	INSULATION, 4#	2
5	5081	CAP, BURNER, MAGNUM SS	1
6	PRO101	14VDC BECKETT BURNER HEAD	1
7	PW-3012	LOW VOLTAGE INHIBITOR	1
8	FFK001(V)	FUEL FILTER KIT	1
9	272-04-04	MALE PO HOSE BARB 1/4MPT X 1/4 HOSE	2
10	520055	FUEL TANK, 8 GAL, POLY, DIESEL	1
11	21489	NOZZLE, FUEL, 2.0 90B	1
12	520014D-GRN	CAP, DIESEL TANK, GREEN	1
13	4012	ENCLOSURE, SWITCH, BACK	1
14	1807D	TINNERMAN NUT, #10, UAB	3
15	LPCG50	CORD GRIP, 1/2"	2
16	8463	NUT, 1/2", CORD GRIP	2
17	4013	ENCLOSURE, SWITCH, FRONT	1
18	F04-00701	SWITCH, LIGHTED ROCKER, 12V, RED LENSE	1
19	100995	THERMOSTAT, 250 DEGREE	1
20	130 042 000 000	NYLOCK NUT, USS 1/4-20	3
21	105 042 000 750	HHCS, USS, GR5, 1/4-20 X 3/4	7
22	100 061 600 000	HEX NUT, PLATED, 3/8-16	4
23	100 051 850 000	HEX NUT, PLATED, 5/16-18, G5	3
24	131 037 500 100	LOCK WASHER, 3/8	4
25	1317D	MACHINE SCREW, PHILLIPS HEAD, #10 X 3/8	3
26	1314D	WASHER, #10, NYLON	3
27	050169007525	4 x 4 COVER	1
28	PCA750-4	COIL ASSEMBLY, 4 GPM	1
29	11544412	CAPTIVE NUT, 1/4-20	4
30	1133076	WASHER, #12 FLAT	4
31	131 025 000 100	LOCK WASHER, 1/4	4
32	803 141 470 750	TEK SCREW, 1/4 X 3/4	3
33	PCA750-26	INSERT, SMALL, VERTICAL HOTWATER	1
34	PCA750-27	INSERT, LARGE, VERTICAL HOTWATER	1



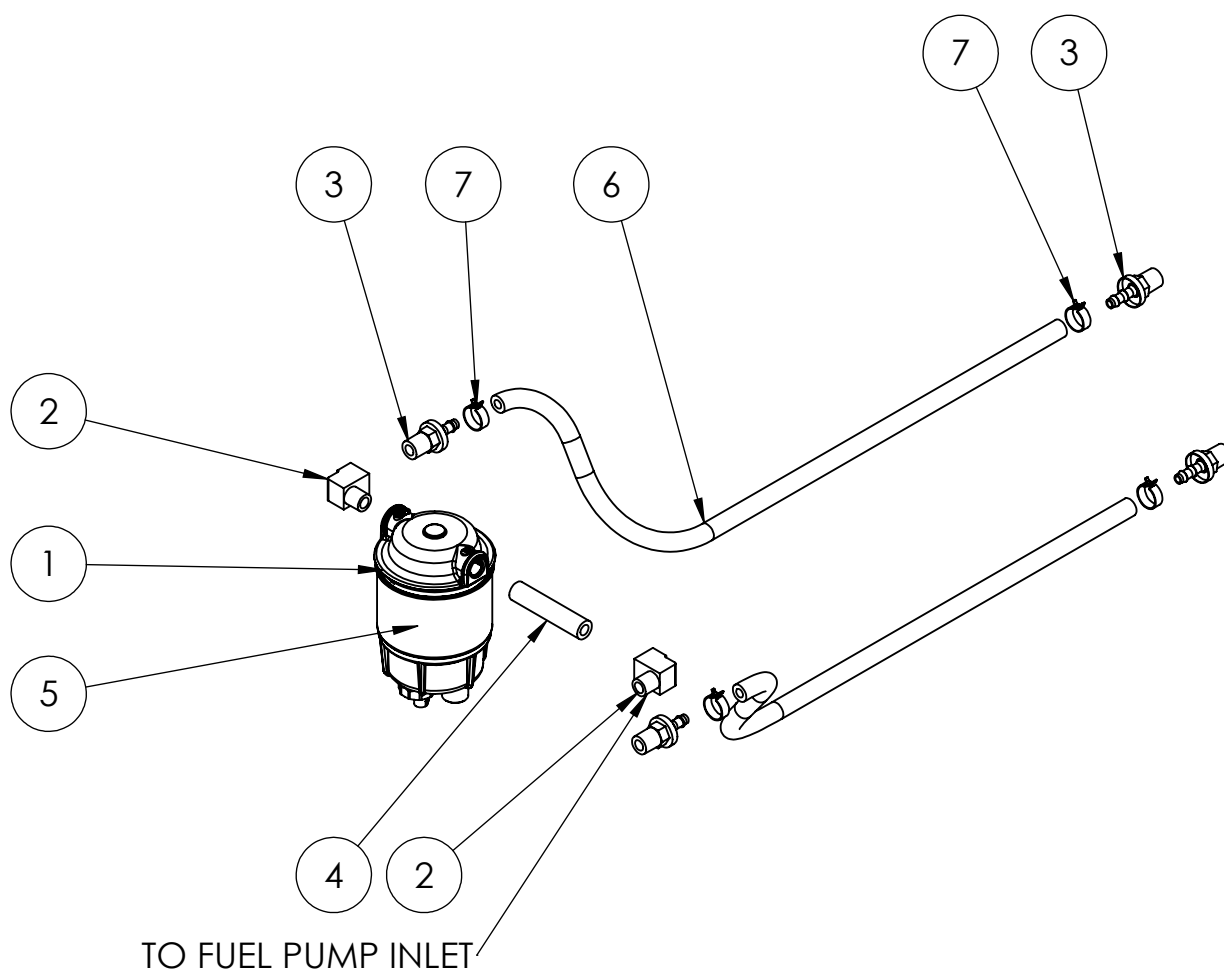
5 GPM COIL TANK ASSY

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	5014	COIL MOUNT PLATE, MAGNUM 4 WHEELER	1
2	PLS-03740-004-1	INSULATION CHAMBER, 4 GPM, VERTICLE	1
3	PCA750-13	COIL SKIN, 4 GPM, 24" SS	1
4	PCA750-12	COIL ASSEMBLY, 6 GPM	1
5	LKE05351	INSULATION, 4#	2
6	5081	CAP, BURNER, MAGNUM SS	1
7	PRO101	14VDC BECKETT BURNER HEAD	1
8	PW-3012	LOW VOLTAGE INHIBITOR	1
9	FFK001(V)	FUEL FILTER KIT	1
10	520055	FUEL TANK, 8 GAL, POLY, DIESEL	1
11	2563	NOZZLE, FUEL, 2.0 80B	1
12	520014D-GRN	CAP, DIESEL TANK, GREEN	1
13	4012	ENCLOSURE, SWITCH, BACK	1
14	1807D	TINNERMAN NUT, #10, UAB	3
15	LPCG50	CORD GRIP, 1/2"	2
16	8463	NUT, 1/2", CORD GRIP	2
17	4013	ENCLOSURE, SWITCH, FRONT	1
18	F04-00701	SWITCH, LIGHTED ROCKER, 12V, RED LENSE	1
19	100995	THERMOSTAT, 250 DEGREE	1
20	130 042 000 000	NYLOCK NUT, USS 1/4-20	3
21	105 042 000 750	HHCS, USS, GR5, 1/4-20 X 3/4	7
22	100 061 600 000	HEX NUT, PLATED, 3/8-16	4
23	100 051 850 000	HEX NUT, PLATED, 5/16-18, G5	3
24	131 037 500 100	LOCK WASHER, 3/8	4
25	1317D	MACHINE SCREW, PHILLIPS HEAD, #10 X 3/8	3
26	1314D	WASHER, #10, NYLON	3
27	050169007525	4 x 4 COVER	1
28	803 141 470 750	TEK SCREW, 1/4 X 3/4	3
29	11544412	CAPTIVE NUT, 1/4-20	4
30	1133076	WASHER, #12 FLAT	4
31	131 025 000 100	LOCK WASHER, 1/4	4
32	PCA750-26	INSERT, SMALL, VERTICAL HOTWATER	1
33	PCA750-27	INSERT, LARGE, VERTICAL HOTWATER	1

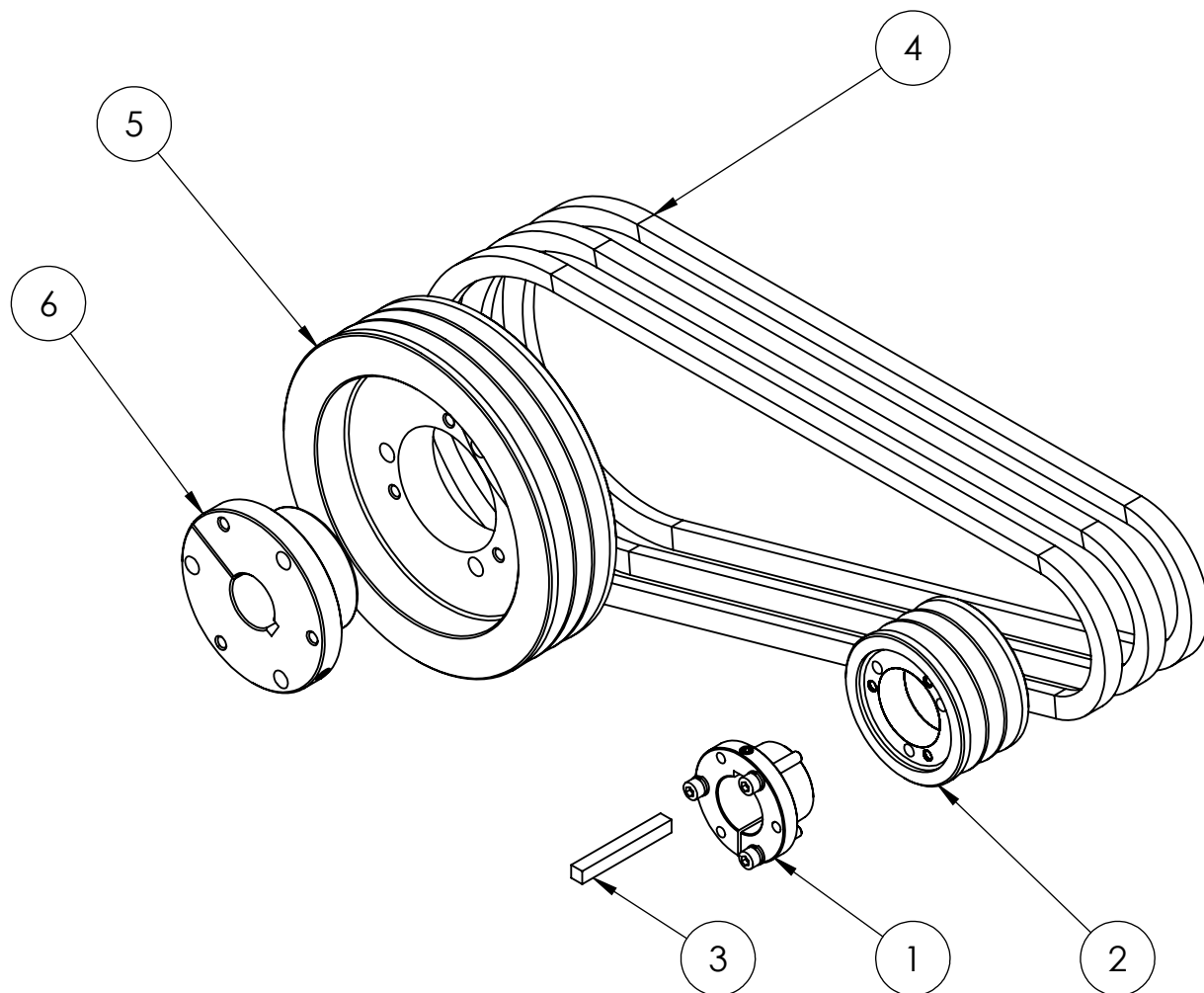


KPL424HD-MAG

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	MB-3838S	MANIFOLD BLOCK, 3/8X3/8 (SHORT)	1
2	5500-06-06	HP ST ELL 90 6MP X 6MP	1
3	5404-06-06	HEX NIPPLE, HP 6MP X 6MP	1
4	VRT3-310	AR UNLOADER, 4500 PSI	1
5	HOS300-016	HOSE ASSY, BARE, PC5000, BLACK	1
6	HOS300-016	HOSE ASSY, 3/8 X 16", 5000 PSI	1
7	5079	BRACKET, INLET WATER, M4012VB	1
8	RD-6502	RUPTURE DISK, LA MOT, 6500#, 250 F	2
9	5502-08-08	HP ST ELL 90 8MP X 8FP	2
10	5605-08-08-08	T, HP, 8FPTX8FPTX8FPT	1
11	100995	THERMOSTAT, 250 DEGREES F	1
12	5406-08-06	HEX BUSHING, HP, 8MPX6FP	2
13	D10079	PLUG, QC, SS, 3/8 MALE	1
14	YESTVALVE	E-Z START VALVE	1
15	272-06-02	HOSE BARB, PUSH ON, 3/8 X 1/8 MPT	1
16	27290-06-06	HOSE BARB, PUSH ON, EL, 3/8 X 3/8 MPT	2
17	3284-2503(.75 FT)	HOSE, LOCK-ON, 3/8, 6LOLA PLUS	2
18	3325-08-08	HEX NIPPLE, 1/2"	1
19	3700-08-08-08	T, FEMALE, 1/2"	1
20	27290-06-08	HOSE BARB, PUSH ON, EL, 3/8 X 1/2 MPT	3
21	TRV50	THERMOSENSOR, 1/2 MPT, 140F	1
22	28284	T, BRANCH, 1/2"	1
23	272-08-08	HOSE BARB, PO, 1/2 X 1/2	2
24	3350-08-08	ELL, 45 DEG STREET, 1/2"	1
25	3284-2504	HOSE, LOCK-ON, 1/2"	1
26	5652-08-08-08-08	CROSS, HP, 8FPT	1
27	3284-2503	HOSE, PUSH ON, 3/8"	2
28	100649	DURAVIEW INLET FILTER ASSY	1
29	YPRESSWITCH1535	PRESSURE SWITCH, 360 PSI	1
30	5605-06-06-06	T, HP, 6FPTX6FPTX6FPT	1

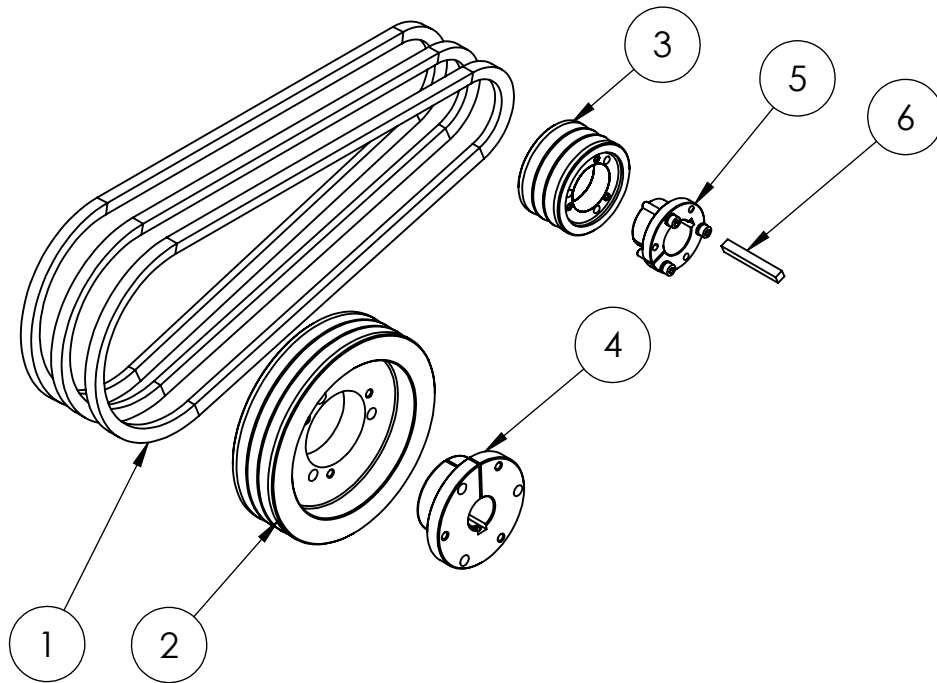


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	140R	FILTER, FUEL, RACOR	1
2	3400-04-04	STREEL ELL, 1/4"	2
3	272-04-04	MALE PO HOSE BARB 1/4MPT X 1/4 HOSE	4
4	5404N-04X2.5	NIPPLE, HP, LONG, 1/4MPT	1
5	R12T	REPLACEMENT ELEMENT	1
6	4219-0103(2FT)	HOSE, FUEL	2
7	12685	SPRING CLAMP, 9/16	4



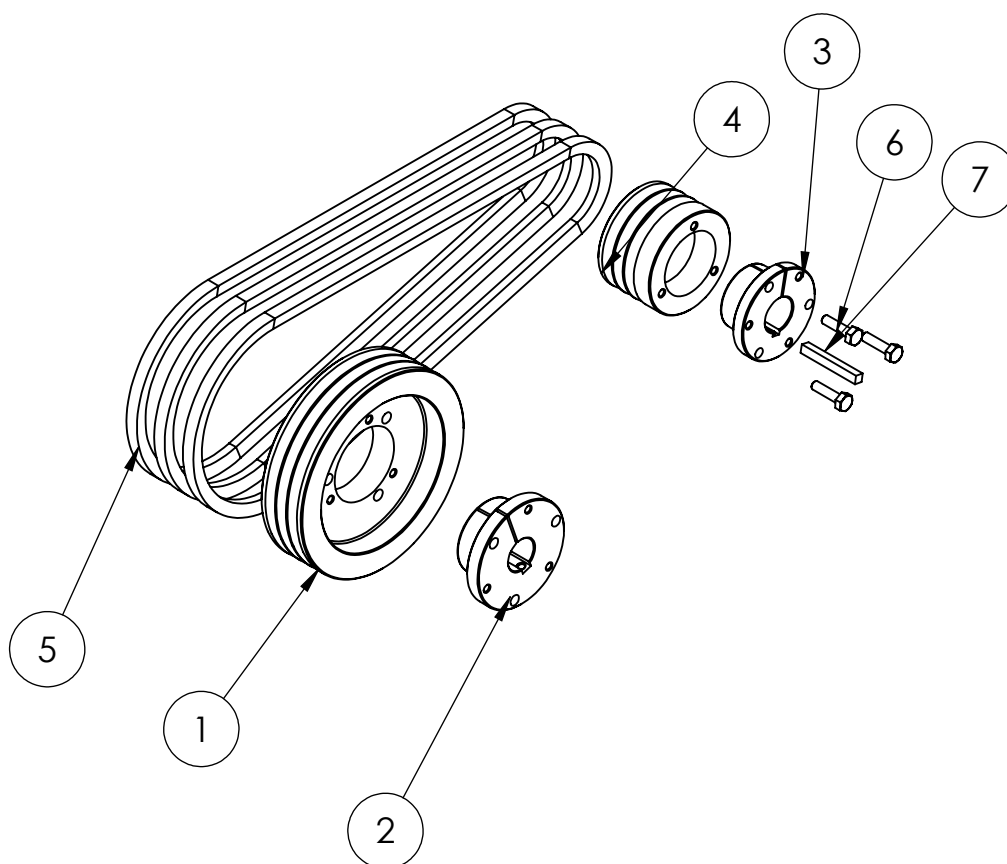
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	JA-1	BUSHING, 1", JA	1
2	3-3V2.65	SHEAVE, 2.65" OD, 3GR, JA STYLE	1
3	PKY020	KEY, DRIVE, 1/4 X 2	1
4	3VX335	3VX BELT 33-1/2"	3
5	3-3V6.00	SHEAVE, 3VX, 3GR.6.00 DIA, SDS STYLE	1
6	SDS-20MM	BUSHING, 20MM, SDS	1

KDR300



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	3VX335	3VX BELT 33-1/2"	3
2	3-3V600 SDS	SHEAVE, 3VX, 3GR.6.00 DIA	1
3	3-3V2.65	SHEAVE, 2.65" OD, 3GR, JA STYLE	1
4	SDS-24MM	BUSHING, 24MM,	1
5	JA-1	BUSHING, 1", JA	1
6	PKY020	KEY, DRIVE, 1/4 X 2	1

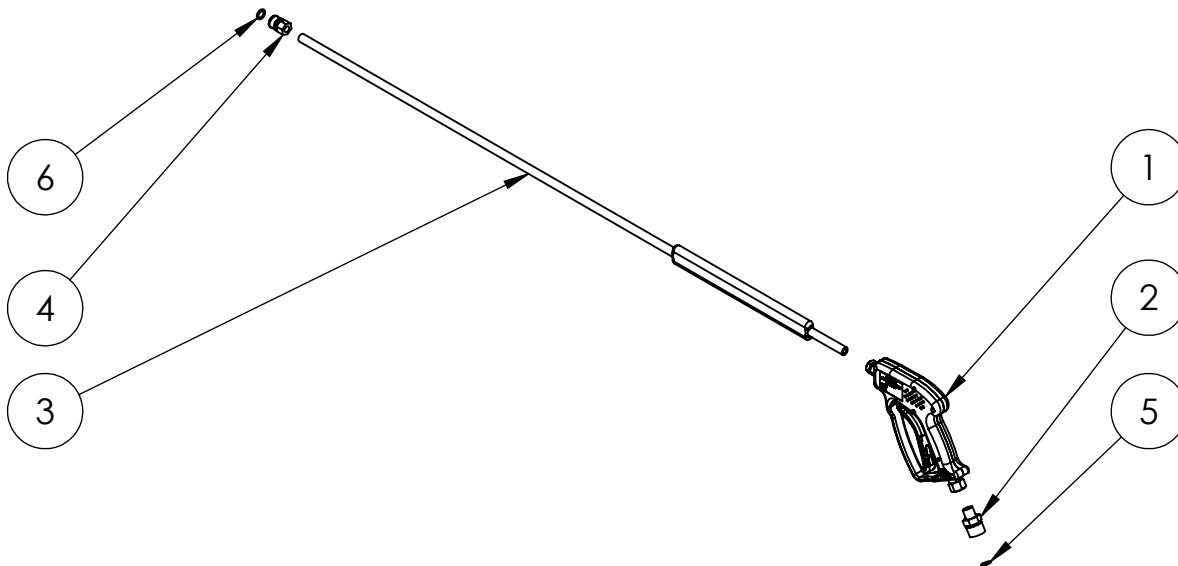
KDR315



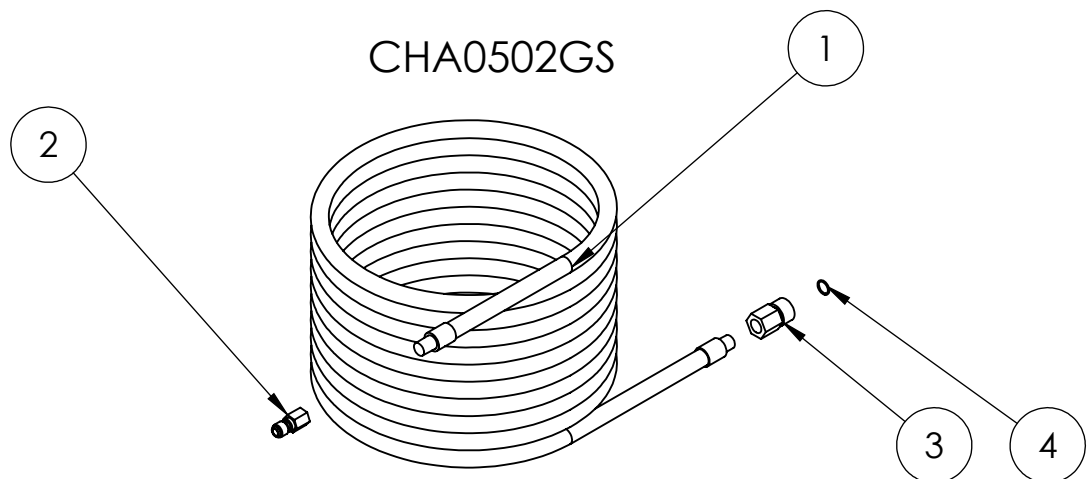
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	3-3V600	SHEAVE, 3VX, 3GR.6.00 DIA SDS STYLE	1
2	SDS-24MM	BUSHING, 24MM,	1
3	SH-1	BUSHING, SH, 1.00" DIA	1
4	3-3V300	SHEAVE, 3 GR, 3.00 DIA	1
5	3VX335	3VX BELT 33-1/2"	3
6	105 042 001 000	HHCS 1/4-20 X 1.00	3
7	PKY020	KEY, DRIVE, 1/4 X 2	1

KDR345

AGU04821290C-I/MAG

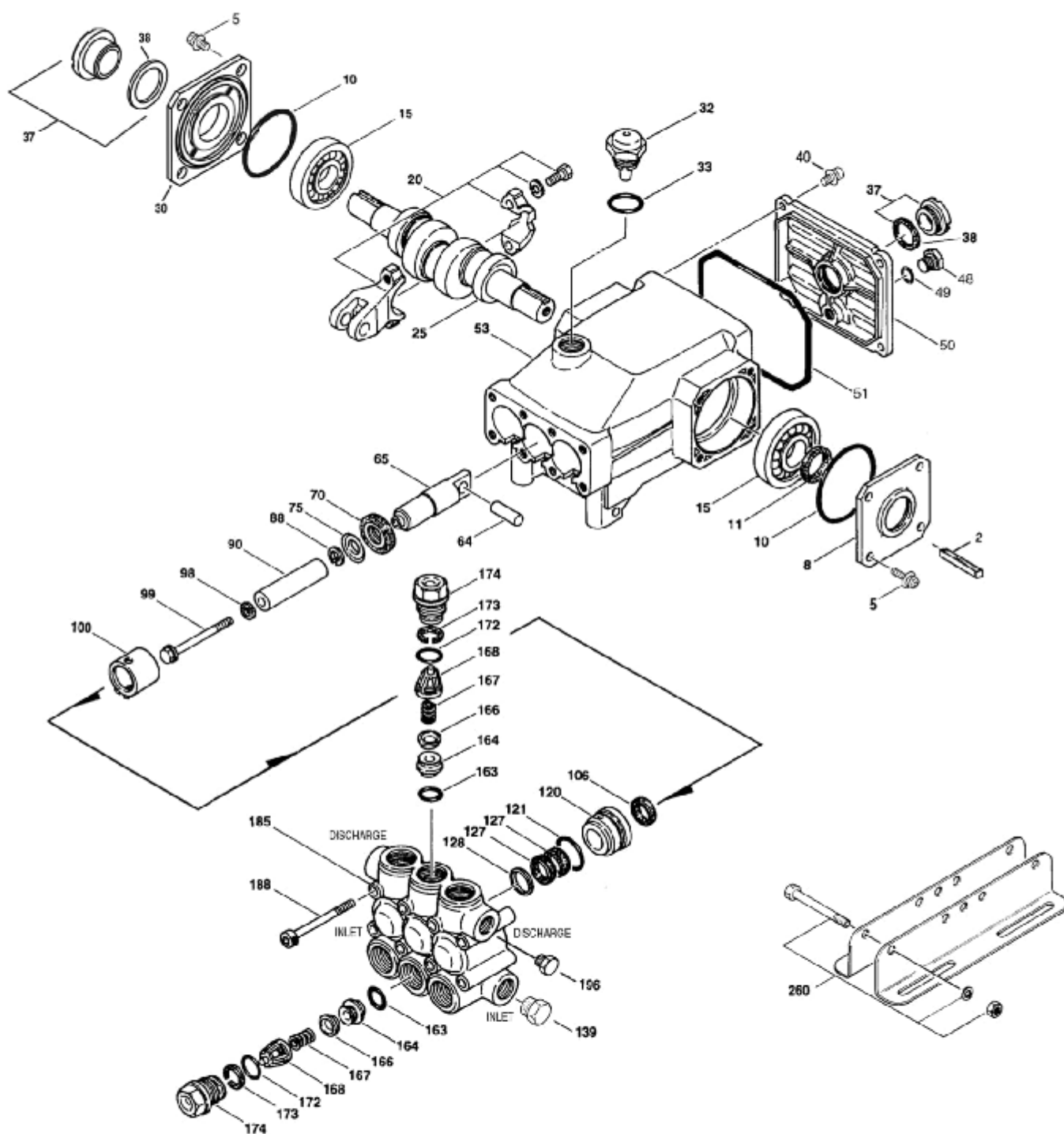


ITEM NO.	PART NUMBER	DESCRIPTION	Default/ QTY.
1	21290C	GUN VALVE, 10 GPM, 5000 PSI	1
2	D10075	QC SOCKET, 3/8 MALE, SS	1
3	DL471CS	WAND, PLATED STEEL, 48", INSULATED GRIP	1
4	D10061	QC SOCKET 1/4 FEMALE W/GRIP	1
5	OR-112-SL-70-ORANGE	O-RING, HIGH TEMP SILICONE FOR 3/8 QC	1
6	OR-110-SL-70-ORANGE	O-RING, HIGH TEMP SILICONE FOR 1/4 QC	1



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	SJ6-06GY-050LBR	HOSE ASSY, 3/8" X 50', GRAY	1
2	D10078	PLUG, 3/8F, SS	1
3	D10074	QC SOCKET, 3/8 FEMALE, SS	1
4	OR-112-SL-70-ORANGE	O-RING, HIGH TEMP SILICONE FOR 3/8 QC	1

EXPLODED VIEW



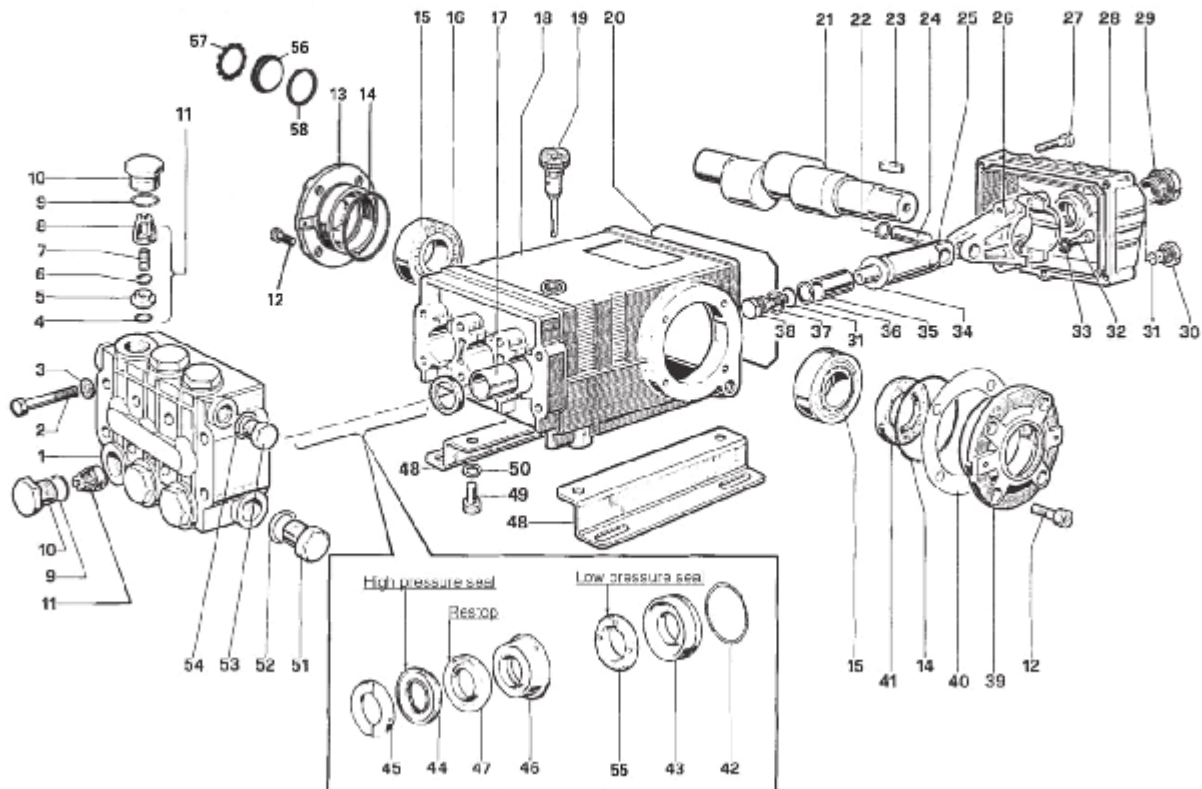
Model
5PP3140CSS
February 2013

PARTS LIST

ITEM	PN	MATL	DESCRIPTION	QTY
2	30057	STL	Key (M6x6x25)	1
5	126542	STCP R	Screw, HHC, Sems (M8x16)	8
8	46910	AL	Cover, Bearing	1
10	14028	NBR	O-Ring, Bearing Cover - 70D	2
11	43222	NBR	Seal, Oil, Crankshaft - 70D	1
15	14480	STL	Bearing, Ball	2
20	48742	TNM	Rod, Connecting Assy	3
25	46928	FCM	Crankshaft, Dual End (18mm)	1
30	49776	AL	Cover, Bearing	1
32	46798	—	Cap, Oil Filler, Domed	1
33	14179	NBR	O-Ring, Oil Filler Cap - 70D	1
37	92241	—	Gauge, Oil, Bubble w/Gasket - 80D	2
38	44428	NBR	Gasket, Flat, Oil Gauge - 80D	2
40	125824	STCP R	Screw, HHC, Sems (M6x16)	4
48	25625	STCP	Plug, Drain (1/4"x19BSP)	1
49	23170	NBR	O-Ring, Drain Plug - 70D	1
50	46940	AL	Cover, Rear	1
51	14044	NBR	O-Ring, Rear Cover	1
53	48617	AL	Crankcase	1
64	46746	CM	Pin, Crosshead	3
65	48458	BBNP	Rod, Plunger	3
70	46838	NBR	Seal, Oil, Crankcase - 70D	3
75	43900	S	Slinger, Barrier	3
88	45697	S	Washer, Keyhole (M18x10)	3
90	46884	CC	Plunger (M16x50)	3
98	46730	NBR	Washer, Seal - 90D	3
99	48201	SS	Retainer, Plunger w/Slud (M6)	3
100	46749	PVDF	Retainer, Seal	3
106	43316	NBR	Seal, LPS w/S-Spg	3
120	46888	BB	Case, Seal (Press-in-style)	3
121	13978	NBR	O-Ring, Seal Case - 70D	3
127	43319	SNG	V-Packing	6
128	46618	NY	Adapter, Male	3
139	22179	3BCP	Plug, Inlet (1/2"NPTM)	1
163	17547	NBR	O-Ring, Seal - 85D	6
164	45790	S	Seat	6
166	46429	S	Valve	6
167	43750	S	Spring	6
168	† 44565	PVDF	Retainer, Spring	6
172	17549	NBR	O-Ring, Valve Plug - 70D	6
173	48365	D	Back-up-Ring, Valve Plug	6
174	45900	BB	Plug, Valve	6
185	46886	FBB	Manifold, Head	1
188	126513	STCP R	Screw, HSH (M8x70)	8
196	22187	3BCP	Plug, Discharge (3/8"NPTM)	1
260	30611	STZP R	Assembly, Angle Rail	1
300	899410	NBR	Kit, Seal (Incls: 106, 127)	1
310	76157	NBR	Kit, Valve (Incls: 163, 164, 166, 167, 168)	2
—	6107	—	Oil, Bottle (21 oz.) ISO-68 Hydraulic (Fill to specified crankcase capacity prior to start-up)	1

Italics are optional items. † Production parts are different than repair parts. R Components comply with RoHS Directive. See Tech Bulletins 002, 003, 024, 036, 043, 053, 060, 061, 064, 073, 074, 077, 078 and 083 for additional information.

MATERIAL CODES (Not Part of Part Number): AL=Aluminum BB=Brass
 BBBCP=Brass/Chrome Plated BBNP=Brass/Nickel Plated CC=Ceramic CM=Chrome-moly
 D=Acetal FBB=Forged Brass FCM=Forged Chrome-moly NBR=Medium Nitrile (Buna-N) NY=Nylon PVDF=Polyvinylidene
 Fluoride S=304SS SNG=Special Blend (Buna) STL=Steel STCP=Steel/Chrome Plated STZP=Steel/Zinc Plated
 TNM=Special High Strength



PARTS LIST

ITEM	PART NO.	DESCRIPTION	KIT NO.	QTY.	ITEM	PART NO.	DESCRIPTION	KIT NO.	QTY.	ITEM	PART NO.	DESCRIPTION	KIT NO.	QTY.
1.	47120841	Manifold	1		21.	47021835	Crankshaft	1		41.	90164800	Seal, Oil	3	1
2.	99320600	Screw, M8 x 70	8		22.	90055700	Ring, Snap	5		42.	90361600	O-Ring, 1.364 x .070	10, 28	3
3.	96702000	Washer, M8.4	8		23.	91439000	Key	1		43.	47080570	Retainer, Packing	10, 28	3
4.	90384100	O-Ring, .674 x .103	1	6	24.	91738000	Pin, Wrist	3		44.	90270500	Packing	28, 69	3
5.	36200366	Seal, Valve	1	6	25.	47050554	Guide, Plunger	3		45.	47100051	Ring, Head, M20	7, 28	3
6.	36200176	Plate, Valve	1	6	26.	47030001	Rod, Connecting	3		46.	47216970	Intermed. Ring	28, 71	3
7.	34737600	Spring	1	6	27.	96131200	Screw, M6 x 30	5		47.	90270400	Restop Ring	28, 69, 71	3
8.	36200251	Guide, Valve	1	6	28.	47150122	Cover, Crankcase	1		48.	47200074	Pump Feet		2
9.	90381700	O-Ring, .797 x .103	1, 5	6	29.	97598800	Oil Indicator	1		49.	99361100	Screw, M10 x 18		4
10.	98222000	Cap	4	6	30.	98204100	Cap	1		50.	96710600	Washer, M10.2		4
11.	36703201	Valve Assembly	1	6	31.	90358500	O-Ring, .426 x .070	6	4	51.	98217600	Cap		1
12.	99303900	Screw, M8 x 16		8	32.	96308600	Screw, M8 x 35		6	52.	96751400	Washer, M21.5		1
13.	47151222	Side Cover	1		33.	96701400	Washer, M8.4		5	53.	98210000	Cap		1
14.	701147	O-ring	2		34.	96720600	Washer, M14		6	54.	96730000	Washer, M17.5		1
15.	540047	Bearing, Foiler	2		35.	47040409	Plunger, (20 mm)		3	55.	90271000	Seal, Low Press., 20mm	28, 69	3
16.	90162500	Seal, Oil	2	3	36.	90506700	Ring, Back-up		6	56.	70211801	Oil Sight Glass		1
17.	90912600	Bushing		3	37.	96728000	Washer		6	57.	90075600	Retainer, Clip		1
18.	47010522	Crankcase	1		38.	47219566	Screw, Plunger		6	58.	90387700	O-ring, 39.34 x 2.62		1
19.	98210600	Oil Dip Stick	1		39.	47150022	Cover, Crankcase	1						
20.	90392200	O-Ring, Cover	1		40.	97567800	Shim		2					

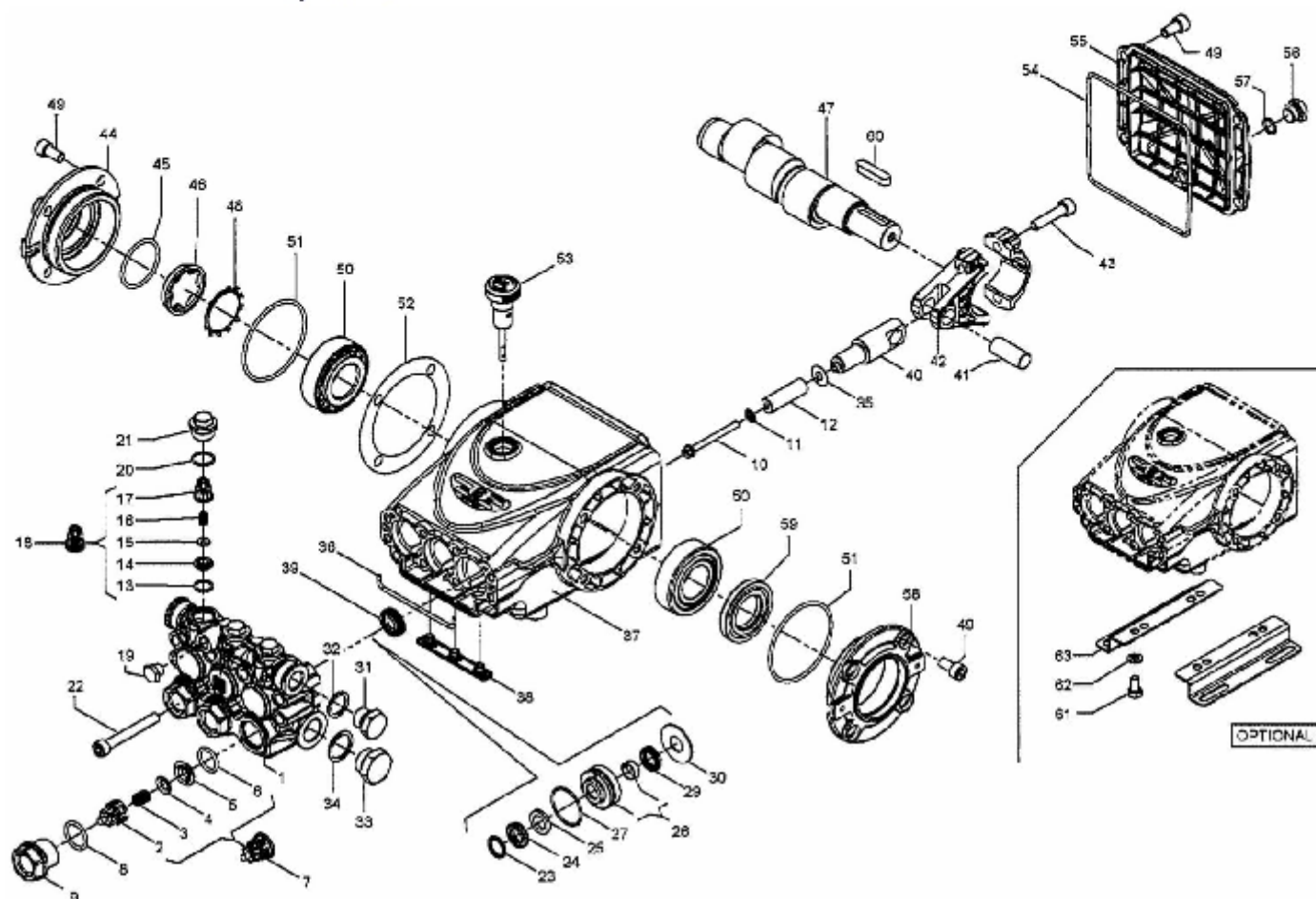
REPAIR KITS

KIT NO.	1	2	3	4	5	6	7	10	28	69	71
ITEM NO.s INCLUDED IN KIT	4, 5, 6, 7, 8 (11)	16	41	9, 10	9, 10	31, 34, 36, 37, 38	45	42, 43	42, 43, 44, 45, 46, 47, 56	44, 47, 56	46, 47
NUMBER OF ASSEMBLIES IN KIT	6	3	2	6	6	3	6	3	1	3	3
NUMBER OF CYLINDERS KIT WILL SERVICE	3	3		3	3	3	3	3	1	3	3

TORQUE SPECS*

Position	FL-lbs.
2	22.1
10	73.7
12	14.7
27	7.3
29	13.2
30	14.7
32	14.7
38	14.7
49	29.4
51	29.4
53	29.4

*Decrease torque by 20% if threads are lubricated.



PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1.	59121341	Manifold, Ø 20, Nickel	1	23.	66100751	Head Ring, Ø 20	3	45.	90307700	O-ring Ø 39.34x2.62	1
2.	36202551	Valve Cage	3	24.	90269100	Packing, Ø 20, HP	3	46.	70211801	Sight Glass	1
3.	94757600	Spring, Ø 9.4x14.8	3	25.	90513400	Anti-ext. Ring, Ø 20	3	47.	59020234	Crankshaft	1
4.	36200176	Valve, Spherical	3	26.	59506101	Intermed. Ring, Ø 20	3	48.	90075600	Retaining Clip	2
5.	36200366	Valve Seal, Inlet	3	27.	90361200	O-ring, 31.47x1.78	3	49.	99303500	Screw, M8x16	12
6.	701115	O-ring, Ø17.13x2.62	3	28.	90269000	Seal, Ø 20, LP	3	50.	640047	Tapered Roller Bearing	2
7.	36711501	Valve Assembly	3	30.	59210870	Support Ring, Ø 20	3	51.	90391300	O-ring Ø 67.95x2.62	2
8.	701002	O-ring, Ø20.24x2.62	3	31.	98209600	Plug 3/8"x13, Nickel	1	52.	97568000	Shim, 0.3 mm	1
9.	98222500	Valve Cap, M24x15x18.7, Nickel	3	32.	96738000	Gasket, 17.5x23x1.5	1		97597500	Shim, 0.1 mm	1
10.	59159000	Plunger Bolt, M5x55	3	33.	98217500	Plug 1/2" BSPx10, Nickel	1	53.	98210500	Oil Dipstick	1
11.	96690500	Washer, Ø 5x11.5x0.4	3	34.	96751400	Gasket, Ø 21.5x27x1.5	1	54.	90392200	O-ring Ø133.02x2.62	1
12.	59040009	Plunger, Ø 20x42	3	35.	96699000	Washer, Ø 7.5x23x0.5	3	55.	59160122	Rear Cover, Nickel	1
13.	701014	O-ring, Ø 12.42x1.78	3	36.	59211062	Gasket, Ø 3x103	1	56.	98204250	Plug, 1/4"x9	1
14.	36211366	Outlet Valve Seal	3	37.	59010122	Crankcase, Nickel	1	57.	701013	O-ring Ø 10.82x1.78	1
15.	36211276	Outlet Valve Poppet	3	38.	58210451	Drip Cover	1	58.	59150122	Side Cover, Nickel	1
16.	94733300	Spring, Ø 6.2x10.4	3	39.	90156550	Oil Seal, Ø 15x24x5.7	3	59.	90164800	Oil Seal, Ø 30x55x7	1
17.	36211151	Outlet Valve Cage Guide	3	40.	59050066	Piston Guide	3	60.	91489200	Key	1
18.	36719301	Complete Outlet Valve	3	41.	97739500	Piston Pin, Ø 14x34	3	61.	99303700	Screw, M8x16	4
19.	98196700	Plug, Nickel	3	42.	59030001	Connecting Rod	3	62.	96701600	Washer Ø 8.4	4
20.	701016	O-ring, Ø 15.6x1.78	3	43.	99309900	Connecting Rod Screw	6	63.	50200074	Pump Foot	2
21.	98213750	Outlet Valve Cap, M18x1.5x10, N	3	44.	59150222	Crankcase Cover, Side, Ni	1				
22.	59317500	Screw, M8x60	8								

REPAIR KITS

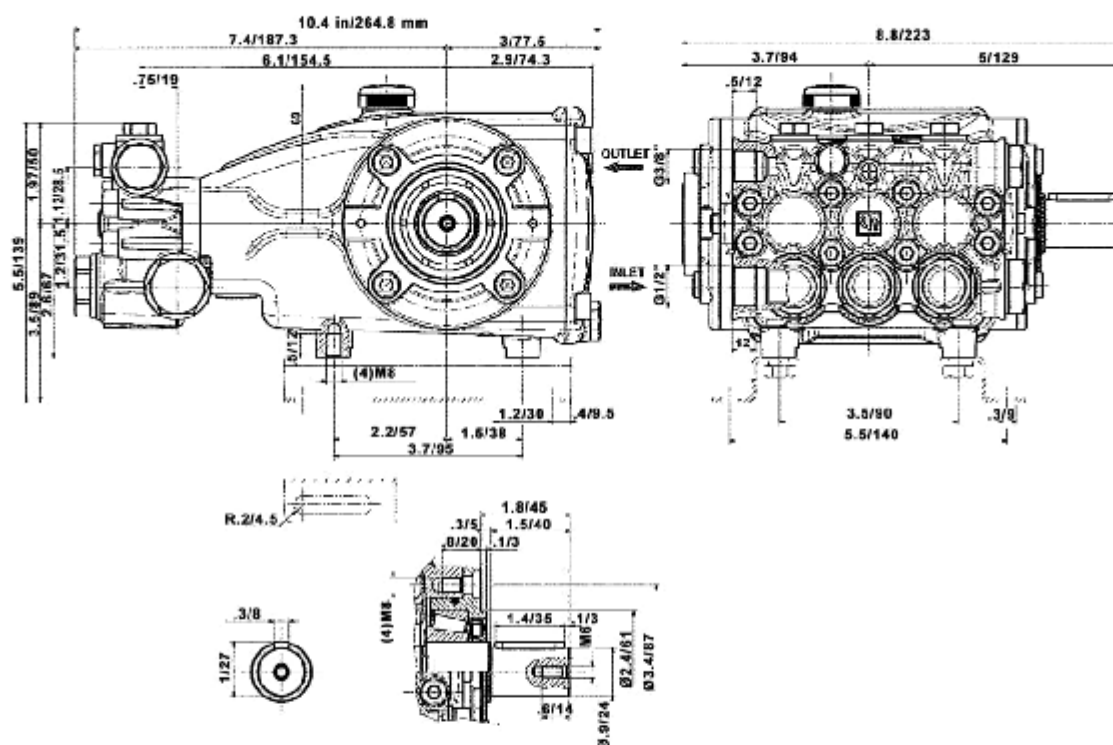
KIT NO.	K269	K270	K271	Ø 18		Ø 20		Ø 22	
				K284	K289	K285	K290	K286	K291
ITEM NO'S INCLUDED IN KIT	2, 3, 4, 5, 6, 13, 14, 15, 16, 17, (7), (18)	8, 9, 20, 21	39	23, 24, 25, 27, 29	23, 24, 25, 26, 27, 28, 30	23, 24, 25, 27, 29	23, 24, 25, 26, 27, 28, 30	23, 24, 25, 27, 29	23, 24, 25, 26, 27, 29, 30
NUMBER OF ASSY'S IN KIT	6	6	3	3	1	3	1	3	1
NO. OF CYLINDERS KIT SERVICES	3	3	3	3	1	3	1	3	1

TORQUE SPECS*

Position	Ft.-Lbs.	Nm.
9	96	130
10	4.5	5
19*	9.6	13
21	44.3	60
22	14.8	20
31	30	40
33	30	40
43	14.8	20
49	14.8	20
56	14.8	20
61	14.8	20

*Use Loctite 542 Red

DIMENSIONS



10. Replacement Parts

For best performance specify genuine *Beckett* replacement parts

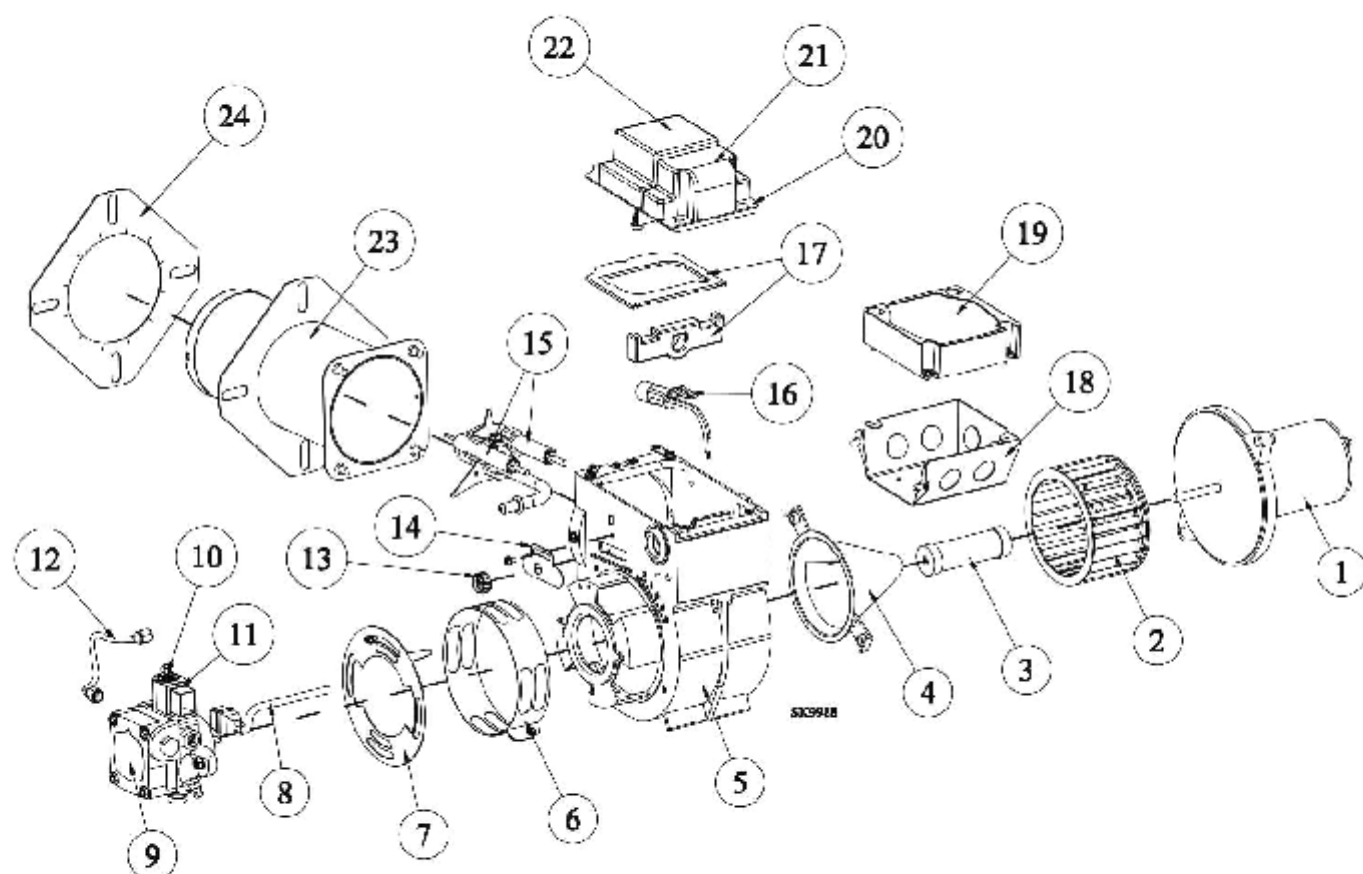


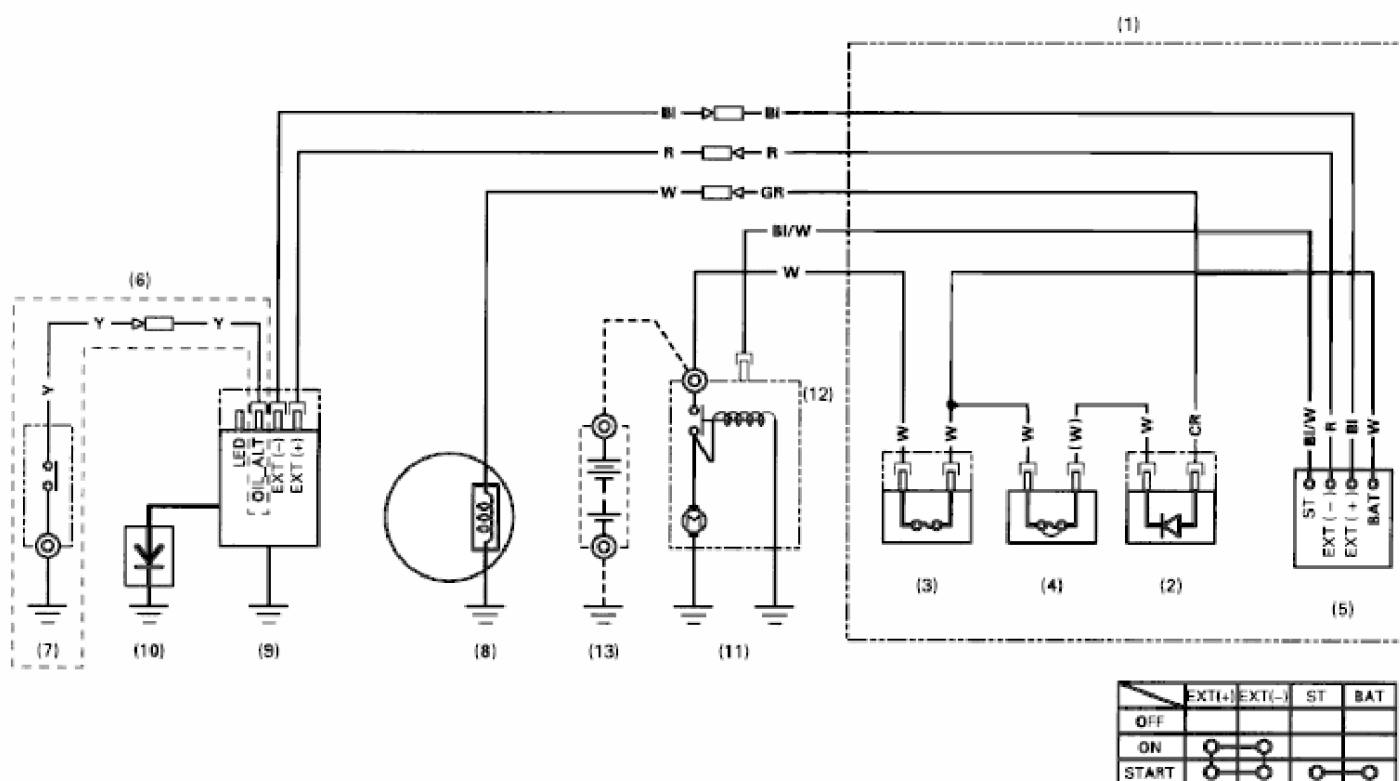
Illustration #	Description	Part#
1	DC Motor	21699UF
2	Blower Wheel	21404U
3	Coupling	21405
4	Air Guide	31231U
5	Burner Housing - Black	55874BKU
6	Air Band	5151501
7	Air Shutter - 4 Slot Air Shutter - 8 Slot	3709 3494
8	Cord set	21807
9	Pump (CleanCut)	2184402U
10	Tube Assembly	21877U
11	12 volt Coil	21754U
12	8" Copper Tubing	5394
13	Escutcheon Plate Spline Nut	3666

Illustration #	Description	Part#
14	Escutcheon Plate	3493
15	Electrode Kit over 3-5/8"	570731
16	Cad Cell Detector	7492/7006U
17	Ignitor Gasket Kit	51411
18	4X4 Wiring Box Kit	5770
19	Control Kit	7556x-xxxxU*
20	Ignitor Ass'y w ICB Ignitor w/o ICB	51776TU 51777TU
21	ICB Kit	51663
22	Ignitor only	7435U
23	Air Tube Ass'y	Specify
24	Flange Mounting Gasket	Specify
Not Shown	Tune-up Kit for 30 & 35 Air Tube Lengths	578730

* 'X's indicate timing options. Contact Beckett for available part numbers.

Wiring Diagrams

With Oil Alert and Electric Starter



- | | |
|------------------------------|-----------------------|
| (1) CONTROL BOX | (8) CHARGING COIL |
| (2) RECTIFIER | (9) IGNITION COIL |
| (3) FUSE | (10) SPARK PLUG |
| (4) CIRCUIT PROTECTOR | (11) STARTER MOTOR |
| (5) ENGINE SWITCH | (12) STARTER SOLENOID |
| (6) Type with Oil Alert unit | (13) BATTERY (12 V) |
| (7) OIL LEVEL SWITCH | |

Bl	Black	Br	Brown
Y	Yellow	O	Orange
Bu	Blue	Lb	Light blue
G	Green	Lg	Light green
R	Red	P	Pink
W	White	Gr	Gray

HONDA GX390

