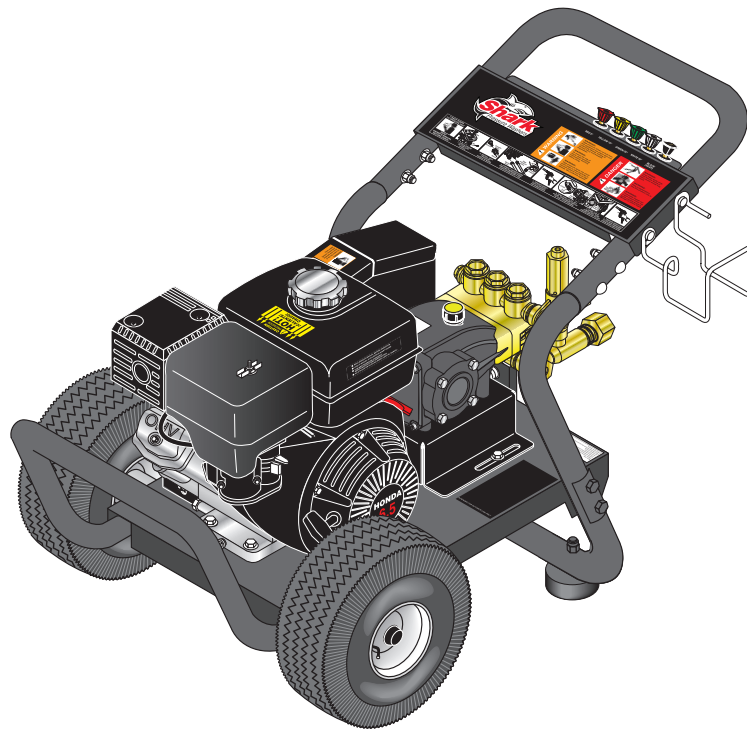


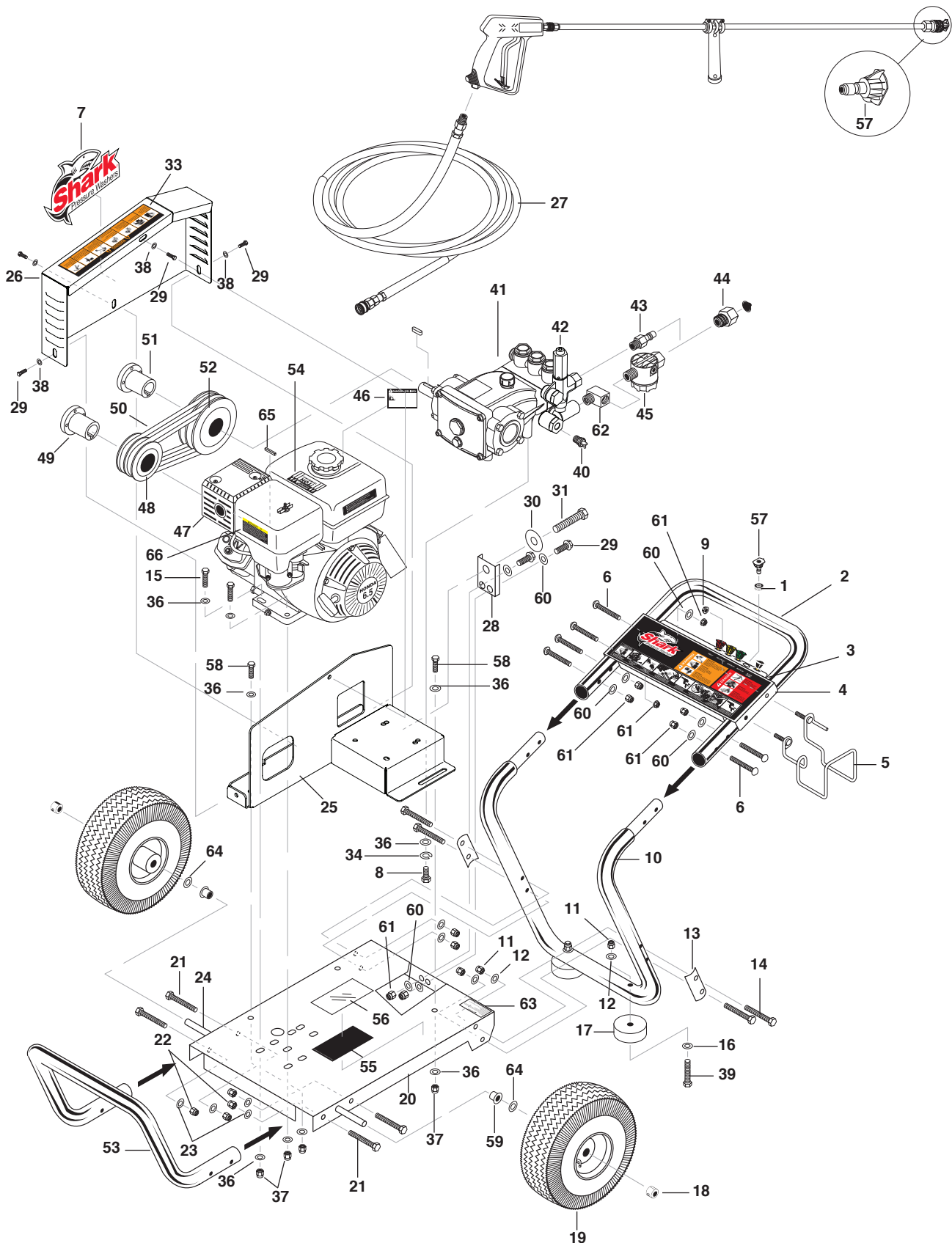


OPERATOR'S MANUAL



<u>MODEL</u>	<u>ORDER #</u>
BG-282037	1.107-142.0
BG-252737	1.107-143.0
BG-303037	1.107-144.0
BG-373537	1.107-145.0
BG-304037	1.107-146.0
BG-353237	1.107-159.0
BG-304037	1.107-252.0
BG-373537	1.107-253.0
BG-252737	1.107-257.0

EXPLODED VIEW - 2000 & 2700 PSI



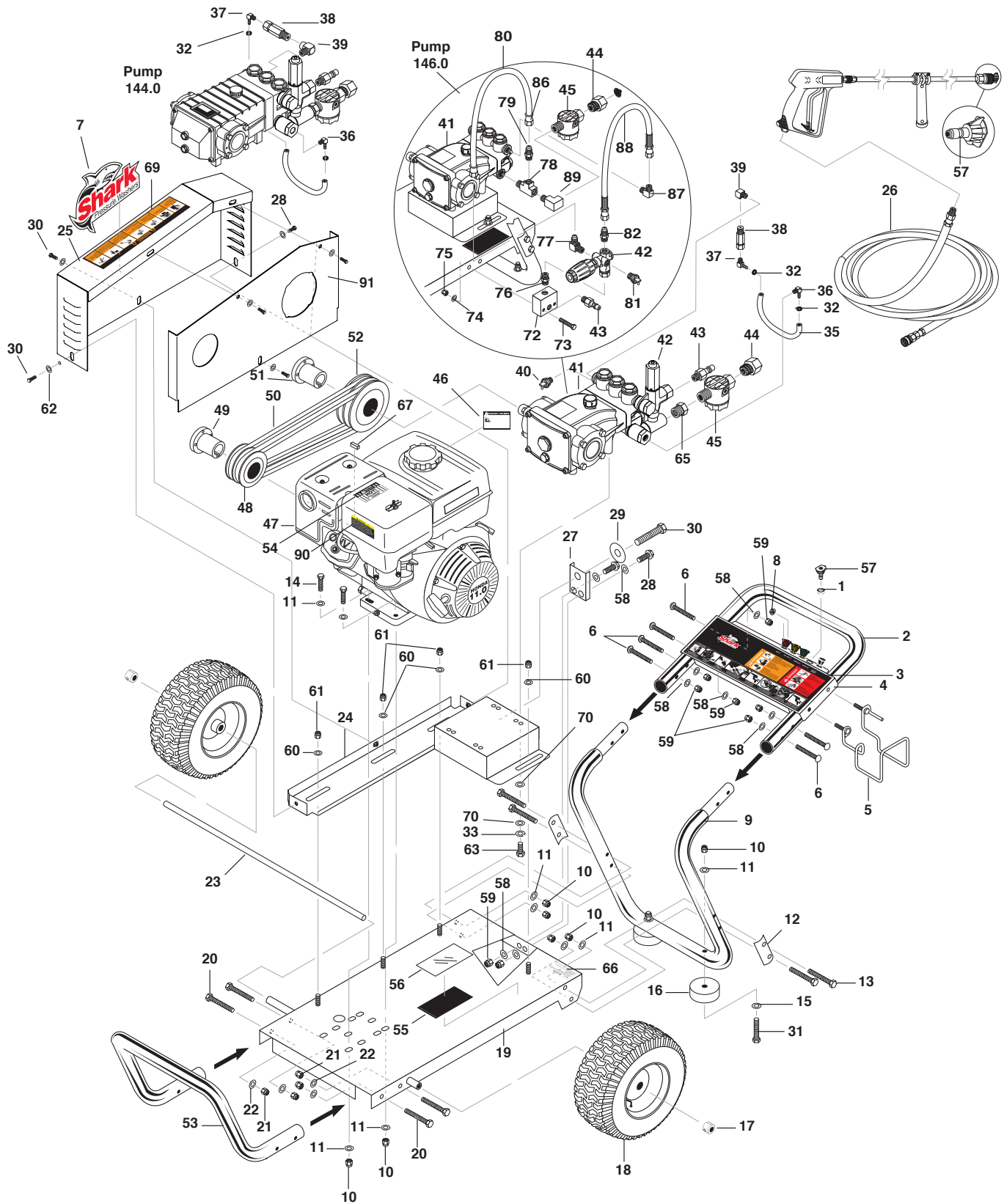
EXPLODED VIEW PARTS LIST - 2000 & 2700 PSI

ITEM	PART NO.	DESCRIPTION	QTY
1	9.802-064.0	Grommet, Rubber, Nozzle Holder	5
2	8.925-057.0	Handle, Grab, Grey, OS	1
3	8.900-909.0	Label, Cold Water Handle	1
4	9.803-126.0	Plate, Warning/Instructions, Black	1
5	9.803-098.0	Hanger, Hose/Wand	1
6	9.802-706.0	Bolt, Carriage, 1/4"-20 x 1-3/4", Zinc	6
7	8.900-870.0	Label, Shark Logo (142.0 & 143.0)	1
	8.753-949.0	Label BG Sunbelt Small Belt Guard (257.0 Only)	1
8	9.802-741.0	Bolt, 8mm x 16mm Hex	4
9	9.802-778.0	Nut, 5/16" Whiz Loc Flange	2
10	8.925-058.0	Handle, Lower Grab, Grey, OS	1
11	9.197-003.0	Nut, 3/8", ESNA, NC	6
12	9.802-807.0	Washer, 3/8" SAE, Flat	6
13	9.803-114.0	Retainer Bracket, Handle, Black	2
14	9.802-728.0	Bolt, 3/8" x 2" NC, HH	4
15	9.802-713.0	Bolt, 5/16" x 1/2"	4
16	9.802-817.0	Washer, 3/8" x 1", Steel	2
17	9.802-066.0	Pad, Soft Rubber	2
18	9.802-782.0	Collar, 5/8" Bore Shaft, 3010	2
19	8.754-186.0	Qh Wheel Assy, 10" Gray Steel Rim W/Tube	2
20	9.803-124.0	Frame Assy, Small, Black	1
21	9.802-712.0	Bolt, 5/16" x 1-3/4", NC, Carriage, Zinc	4
22	9.802-776.0	Nut, 5/16", ESNA, NC	4
23	8.718-980.0	Washer, 5/16" Flat, SAE	4
24	9.803-097.0	Axle, 5/8" x 19-5/8"	1
25	8.917-892.0	Slider, Pump, Black	1
26	8.917-885.0	Guard, Belt	1
27	Hose, See Hose & Spray Gun Assembly		
28	9.803-118.0	Bracket, Take Up, CW, Black	1
29	9.802-700.0	Screw, 1/4" x 3/4" HH NC	6
30	9.802-809.0	Washer, 1/2", Flat, SAE	1
31	9.802-740.0	Bolt, 1/2" x 3-1/2" HEX	1
33	9.800-036.0	Label, Warning, Pictorial Small	1
34	9.802-813.0	Washer, 5/16" Lock	4
36	8.718-980.0	Washer, 5/16" Flat	18
37	9.802-776.0	Nut, 5/16" ESNA	7
38	9.802-802.0	Washer, 1/4" Flat, SAE	4
39	9.802-730.0	Bolt, 3/8" x 2-1/4", HH	2
40	9.804-025.0	Pump Protector 1/4"	1
41	Pump, See Specifications Pages		

EXPLODED VIEW PARTS LIST - 2000 & 2700 PSI

ITEM	PART NO.	DESCRIPTION	QTY
42		Unloader, See Specifications Pages	
43	9.802-170.0	Coupler, 3/8" Plug, Female, Steel/Zinc	1
44	9.802-146.0	Swivel, 1/2" MP x 3/4" GHF w/Strainer	1
45	9.802-163.0	Strainer, 1/2" PA, Inline Plastic	1
46	9.800-008.0	Label, Danger Cool Engine	1
47		Engine, See Specifications Pages	
48		Engine Pulley, See Specifications Pages	
49		Engine Bushing, See Specifications Pages	
50		Belts, See Specifications Pages	
51		Pump Bushing, See Specifications Pages	
52		Pump Pulley, See Specifications Pages	
53	8.925-059.0	Handle, Bumper, Grey, OS	1
54	9.800-006.0	Label, Hot/Caliente w/Arrows, Warning	1
55	8.932-968.0	Label, Intended For Outdoor Use	1
56	9.800-034.0	Label, Clear Lexan, 2-1/4" x 4-1/2"	1
57	8.712-333.0	Nozzle, SAQCMEG 1503.0, Yellow (143.0)	1
	8.712-334.0	Nozzle, SAQCMEG, 2503.0, Green (143.0)	1
	8.712-335.0	Nozzle, SAQCMEG 4003.0, White (143.0)	1
	8.712-346.0	Nozzle, SAQCMEG 1504.0, Yellow (142.0)	1
	8.712-347.0	Nozzle, SAQCMEG, 2504.0, Green (142.0)	1
	8.712-348.0	Nozzle, SAQCMEG 4004.0, White (142.0)	1
58	9.802-710.0	Bolt, 5/16" x 1" NC	3
59	9.802-103.0	Bushing, 5/8" Snap	2
60	9.802-802.0	Washer, 1/4" Flat, SAE	10
61	9.802-773.0	Nut, 1/4" ESNA, NC	8
62	8.706-829.0	Elbow, 1/2" Street, Brass	1
63	9.800-049.0	Label, Manufacturer's Cleaning Solution	1
64	9.802-810.0	Washer, 5/8" Flat	2
65	9.802-958.0	Key, .185 Sqr. x 1.75"	1
66	8.751-096.0	Label, Regulation 4442.6	1

EXPLODED VIEW - 3000, 3200, 3500 & 4000 PSI



EXPLODED VIEW PARTS LIST - 3000, 3200, 3500 & 4000 PSI

ITEM	PART NO.	DESCRIPTION	QTY
1	9.802-064.0	Grommet, Rubber, Nozzle Holder	5
2	8.920-262.0	Handle, Grab, Chrome	1
3	8.900-909.0	Label, Cold Water Handle	1
	8.753-777.0	Label, Cold Water Handle (252.0 & 253.0 Models Only)	1
4	9.803-126.0	Plate, Warning/Instruction, Black	1
5	9.803-098.0	Hanger, Hose/Wand	1
6	9.802-706.0	Bolt, Carriage, 1/4"-20 x 1-3/4", Zinc	6
7	8.900-870.0	Label, Shark Logo	1
	8.753-781.0	Label, Long, Belt Guard (252.0 & 253.0 Model Only)	1
8	9.802-778.0	Nut, 5/16" Whiz Loc Flange	2
9	8.920-261.0	Handle, Lower Grab, Chrome	1
10	9.197-003.0	Nut, 3/8" ESNA, NC	10
11	9.802-807.0	Washer, 3/8" SAE, Flat	14
12	9.803-114.0	Retainer Bracket, Handle, Black	2
13	9.802-728.0	Bolt, 3/8" x 2" NC, HH	4
14	9.802-727.0	Bolt, 3/8" x 1-3/4", Tap	4
15	9.802-817.0	Washer, 3/8" x 1", Steel	2
16	9.802-066.0	Pad, Soft Rubber	2
17	9.802-782.0	Collar, 5/8" Bore Shaft, 3010	2
18	8.754-435.0	Wheel & Pu Tire Assy, 12" Steel Rim	2
19	9.803-115.0	Frame Assy, Large, Black	1
20	9.802-712.0	Bolt, 5/16" x 1-3/4", NC, Carriage, Zinc	4
21	9.802-776.0	Nut, 5/16", ESNA, NC	4
22	8.718-980.0	Washer, 5/16" Flat, SAE	4
23	8.911-226.0	Axle, 5/8" x 27" L	1
24	8.917-893.0	Assy Black, Slider Pump / Belt Guard Mount	1
25	8.917-886.0	Plate, Belt Guard Front Cover	1
26	Hose, See Hose and Spray Gun Assy.		
27	9.803-118.0	Bracket, Take Up, CW, Black	1
28	9.802-700.0	Screw, 1/4" x 3/4" HH NC	8
29	9.802-809.0	Washer, 1/2", Flat, SAE	1
30	9.802-740.0	Bolt, 1/2" x 3-1/2" HEX	1
31	9.802-730.0	Bolt, 3/8" x 2-1/4", HH	2
32	6.390-126.0	Clamp, Hose, .46-54 ST	2
33	9.802-813.0	Washer, 5/16" Lock (3000 PSI)	4
	9.802-816.0	Washer, 7/16" Lock, Split (3200, 3500, 4000 PSI)	4
35	9.802-254.0	Hose, 1/4", Push-On, Fuel Line(All except 4000 PSI)	1 ft.
36	8.706-958.0	Barb, 1/4" Barb x 1/4" ML Pipe, 90°	1
37	8.706-955.0	Hose Barb, 1/4" Barb x 1/8" ML Pipe 90° (3000 PSI)	1
	8.706-940.0	Hose Barb, 1/4" Barb x 1/8" ML Pipe (3200, 3500, 4000 PSI)	1

EXPLODED VIEW PARTS LIST - 3000, 3200, 3500 & 4000 PSI

ITEM	PART NO.	DESCRIPTION	QTY
38	9.802-190.0	Valve, E-Z Start, 3/8" MPT x 1/8" FPT (3200 & 3500 PSI)	1
	9.804-065.0	Valve, E-Z Start, 1/4" MPT x 1/8" FPT (3000 PSI)	1
39	8.706-207.0	Elbow, 3/8", Street	1
	8.706-200.0	Elbow, 1/4", Street (3000 PSI)	1
40	8.707-256.0	Pump Protector, 1/2" (145.0 / 159.0)	1
41	Pump, See Specifications Pages		
42	Unloader, See Specifications Pages		
43	9.802-170.0	Coupler, 3/8" Plug, Female, Steel/Zinc (149.0 Only)	1
44	9.802-146.0	Swivel, 1/2" MP x 3/4" GHF w/Strainer	1
45	9.802-163.0	Strainer, 1/2" PA, Inline Plastic	1
46	9.800-008.0	Label, Danger Cool Engine	1
47	Engine, See Specifications Pages		
48	Engine Pulley, See Specifications Pages		
49	Engine Bushing, See Specifications Pages		
50	Belts, See Specifications Pages		
51	Pump Bushing, See Specifications Pages		
52	Pump Pulley, See Specifications Pages		
53	8.920-263.0	Handle, Bumper, Chrome	1
54	9.800-006.0	Label, Hot/Caliente w/Arrows, Warning	1
55	8.932-968.0	Label, Intended For Outdoor Use	1
56	9.800-034.0	Label, Clear Lexan, 2-1/4" x 4-1/2"	1
57	8.712-338.0	Nozzle, SAQCMEG 1503.5, Yellow (3000 PSI)	1
	8.712-339.0	Nozzle, SAQCMEG, 2503.5, Green (3000 PSI)	1
	8.712-340.0	Nozzle, SAQCMEG 4003.5, White (3000 PSI)	1
	8.712-346.0	Nozzle, SAQCMEG 1504, Yellow (3200 & 3500 PSI)	1
	8.712-347.0	Nozzle, SAQCMEG, 2504, Green (3200 & 3500 PSI)	1
	8.712-348.0	Nozzle, SAQCMEG 4004, White (3200 & 3500 PSI)	1
	8.712-333.0	Nozzle, SAQCMEG 1503.0, Yellow (4000 PSI)	1
	8.712-334.0	Nozzle, SAQCMEG, 2503.0, Green (4000 PSI)	1
	8.712-335.0	Nozzle, SAQCMEG 4003.0, White (4000 PSI)	1
58	9.802-802.0	Washer, 1/4" Flat	10
59	9.802-773.0	Nut, 1/4" ESNA	8
60	8.718-980.0	Washer, 5/16" Flat	4
61	9.802-776.0	Nut, 5/16" ESNA	4
62	9.802-802.0	Washer, 1/4" Flat, SAE	6
63	9.802-741.0	Bolt, 8mm x 16mm Hex (3000 PSI)	4
	9.802-744.0	Bolt, 10mm x 20mm (3200, 3500 & 4000 PSI)	4
64	8.706-860.0	Tee, 1/2" Branch (4000 PSI)	1
	8.706-854.0	Tee, 1/4" Branch (3000, 3200 & 3500 PSI except 145.0, 159.0)	1
65	8.706-984.0	Adapter, 1/2" x 1/2" (All except 3500 & 4000 PSI)	1
66	9.800-049.0	Label, Manufacturer's Cleaning Solution	1
67	9.802-959.0	Key, .247 Sqr. x 2.125"	1
69	9.800-036.0	Label, Warning, Pictoral, Small	1

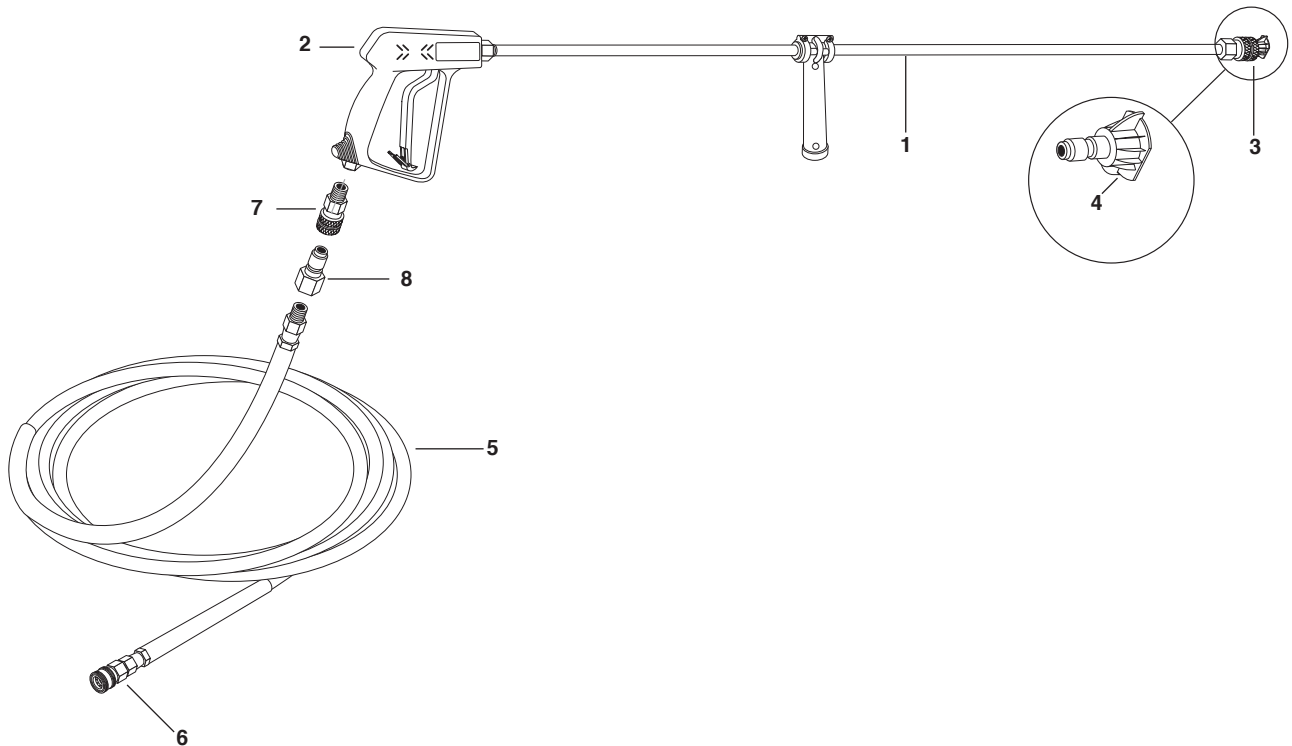
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EXPLODED VIEW PARTS LIST - 3000, 3200, 3500 & 4000 PSI

ITEM	PART NO.	DESCRIPTION	QTY
70	8.718-980.0	Washer, 5/16" Flat (3000 PSI)	4
	9.802-807.0	Washer, 3/8" Flat (4000 PSI)	4
71	8.750-300.0	Unloader, VRT3 Ez Start (4000 PSI)	1
72	9.802-870.0	Block, Unloader, 3/8" x 3/8" 1.25 Stee (4000 PSI)	1
73	9.802-728.0	Bolt, 3/8" x 2", NC HH (4000 PSI)	2
74	9.802-807.0	Washer, 3/8" SAE, Flat (4000 PSI)	2
75	9.197-003.0	Nut, 3/8" ESNA NC (4000 PSI)	2
76	8.705-974.0	Nipple, 3/8" Hex Steel (4000 PSI)	1
77	9.802-129.0	Elbow, 3/8" x 1/2" JIC (4000 PSI)	1
78	8.706-860.0	Street Tee, 1/2" (4000 PSI)	1
79	9.802-128.0	Nipple, 1/2" x 1/2" JIC (4000 PSI)	1
80	9.802-259.0	Hose, Push-on 1/2" (4000 PSI)	15"
81	8.707-254.0	Pump Protector, 3/8" PTP (4000 PSI)	1
82	9.802-036.0	Nipple, 1/2" JIC, 3/8" Pipe (4000 PSI)	1
83	9.802-810.0	Washer, 5/8" Flat	2
84	9.802-151.0	Swivel, 1/2" JIC, Female, Push-On (4000 PSI)	2
85	9.802-959.0	Key, .247" Sqr. x 2.125"	1
86	9.800-036.0	Label, Warning, Pictoral, Small	1
87	9.802-039.0	Elbow, 1/2" JIC, 3/8", 90° (4000 PSI)	1
88	8.918-422.0	Hose, 3/8" x 20", 2 Wire, Pressure Loop (4000 PSI)	1
89	8.706-829.0	Elbow, 1/2" Street Brass"	1
90	8.751-096.0	Label, Regulation 4442.6	1
91	8.917-889.0	Plate, Belt Guard Back Cover	1
	8.920-542.0	Black Plate Belt Guard (3000 PSI)	1

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HOSE & SPRAY GUN ASSEMBLY



HOSE & SPRAY GUN ASSEMBLY PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
1	9.802-219.0	Wand Assy., Side Grip w/1/4" Coupler, 35-1/2"	1
2	8.710-384.0	Gun, St-1500, 5000 PSI, 10.4 Gpm	1
3	9.802-164.0	Coupler, 1/4" Female, Brass	1
4	Nozzle, See Breakdown for Part Numbers		
5	8.925-130.0	HOSE, 3/8" X 50' 1W 4000PSI SW/SO/CPL (2000, 2700 & 3000 PSI)	1
	8.925-131.0	Hose, 3/8" X 50', R2, SO X SW(3200 PSI, 3500 & 4000 PSI)	1
6	9.802-166.0	Coupler, 3/8" Female, Brass	1
7	9.802-170.0	Nipple 3/8 x 3/8 NPT Fem (4000 PSI Only)	1
8	9.802-169.0	Coupler 3/8" Male Brass (4000 PSI Only)	1

SPECIFICATIONS

Model	GPM	Pressure (PSI)	Nozzle Size	Pump	Pump Part No.	Unloader Part No.	Engine	Engine Part No.	Pump Pulley	Pump Pulley Part No.
1.107-142.0	2.8	2000	4.0	SB3030R	8.923-795.0	8.754-696.0	GX160 (163cc)	9.802-316.0	AK74H	9.802-369.0
1.107-143.0	2.5	2700	3.0	SB3030R	8.923-795.0	8.754-696.0	GX200 (196cc)	9.802-317.0	BK80H	9.802-380.0
1.107-144.0	3.0	3000	3.5	SB3030R	8.923-795.0	8.754-696.0	GX270 (270cc)	8.750-680.0	2BK80	9.802-389.0
1.107-145.0	3.7	3500	4.0	SM4035R.3	8.904-794.0	9.175-018.0	GX390 (390cc)	8.750-580.0	2BK90H	8.715-593.0
1.107-146.0	3.0	4000	3.0	SM3540R.3	8.904-790.0	8.750-300.0	GX390 (390cc)	8.750-580.0	2BK80H	9.802-389.0
1.107-159.0	3.5	3200	4.0	SM4035R.3	8.904-794.0	9.803-900.0	GX390 (390cc)	8.750-580.0	2BK90H	8.715-593.0
1.107-252.0	3.0	4000	3.0	SM3540R.3	8.904-790.0	8.750-300.0	GX390 (390cc)	8.750-580.0	2BK80H	9.802-389.0
1.107-253.0	3.7	3500	4.0	SM4035R.3	8.904-794.0	9.175-018.0	GX390 (390cc)	8.750-580.0	2BK90H	8.715-593.0

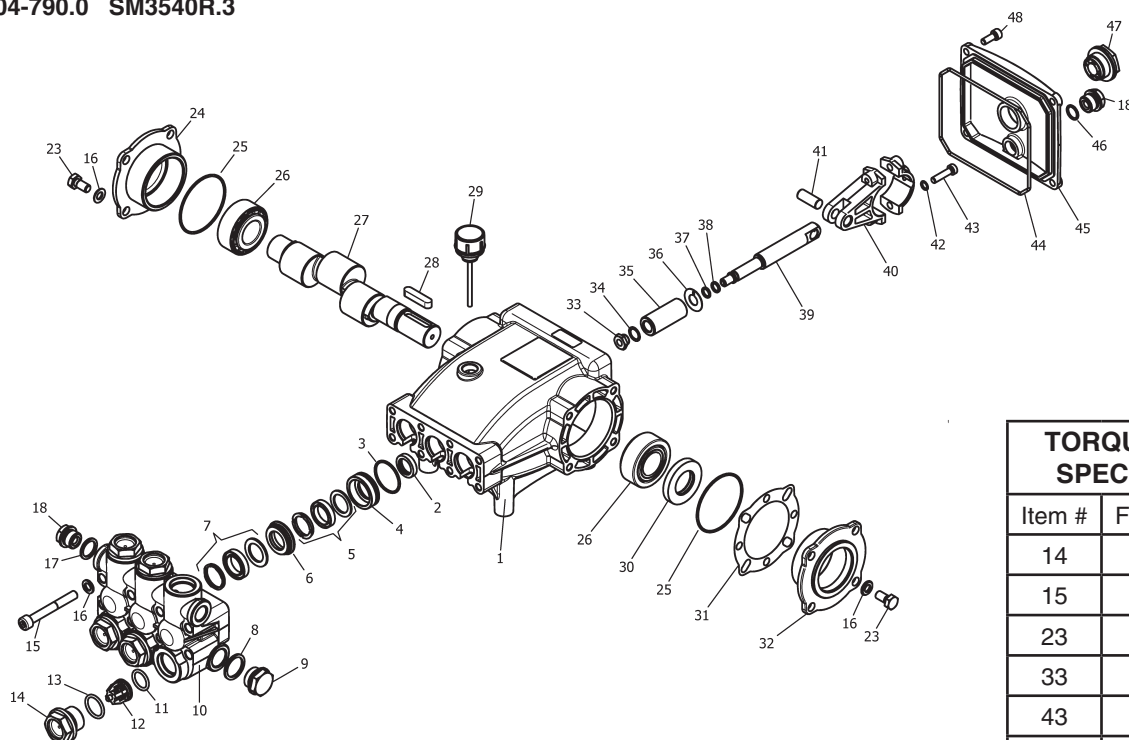
SPECIFICATIONS

Model	Pump Bushing	Bushing Part No.	Engine Pulley	Pulley Part No.	Engine Bushing	Bushing Part No.	Belt Size	Belt Part No.
1.107-142.0	24MM	9.802-402.0	AK39H	9.803-898.0	HX3/4"	9.803-897.0	AX33 (1)	9.803-896.0
1.107-143.0	24MM	9.802-402.0	BK36H	9.802-379.0	HX3/4"	9.803-897.0	BX32 (1)	9.802-413.0
1.107-144.0	24MM	9.802-402.0	2BK40H	9.802-384.0	HX1"	9.802-399.0	BX38 (2)	9.802-417.0
1.107-145.0	24MM	9.802-402.0	2BK32H	8.715-576.0	HX1"	9.802-399.0	BX39 (2)	9.802-418.0
1.107-146.0	24MM	9.802-402.0	2BK40H	9.802-384.0	HX1"	9.802-399.0	BX38 (2)	9.802-417.0
1.107-159.0	24MM	9.802-402.0	2BK32H	8.715-576.0	HX1"	9.802-399.0	BX39	9.802-418.0
1.107-252.0	24MM	9.802-402.0	2BK40H	9.802-384.0	HX1"	9.802-399.0	BX38 (2)	9.802-417.0
1.107-253.0	24MM	9.802-402.0	2BK32H	8.715-576.0	HX1"	9.802-399.0	BX39 (2)	9.802-418.0

SM.3 SERIES PUMP EXPLODED VIEW

8.904-794.0 SM4035R.3

8.904-790.0 SM3540R.3



TORQUE SPECS

Item #	Ft.-lbs
14	75
15	30
23	8
33	9
43	13
48	7.6

SM.3 SERIES PUMP EXPLODED VIEW PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY				
1	8.751-216.0	Crankcase	1	23	9.802-944.0	Hexagonal Screw	8
2*	See Kits Below	Plunger Oil seal	3	24	8.717-210.0	Closed Bearing Housing	1
3*	See Kits Below	O-Ring Ø1.78 x 31.47	3	25	9.803-192.0	O-Ring Ø1.78 x 60.05	2
4*	See Kits Below	Pressure Ring	3	26	8.933-011.0	Tapered Roller Bearing	2
5*	See Kits Below	U-Seal	3	27	9.803-146.0	Crankshaft (3540)	1
6*	See Kits Below	Intermediate Ring	3		9.803-147.0	Crankshaft (4035)	1
7*	See Kits Below	U-Seal	3	28	9.803-167.0	Crankshaft Key	1
8	9.803-199.0	Washer, Copper	1	29	9.802-921.0	Oil Dip Stick	1
9	9.802-926.0	Plug, Brass 1/2	1	30	9.803-140.0	Crankshaft Seal	1
10	8.751-218.0	Manifold Head	1	31	9.803-178.0	Shim	2
11*	See Kits Below	O-Ring Ø2.62 x 17.13	6	32	8.717-209.0	Bearing Housing	1
12*	See Kits Below	Valve Assembly	6	33*	See Kits Below	Plunger Nut, M8	3
13*	See Kits Below	O-Ring Ø2.62 x 20.29	6	34*	See Kits Below	Copper Spacer	3
14	9.802-928.0	Valve Plug	6	35*	See Kits Below	Plunger (4035)	3
15	9.802-938.0	Manifold Stud Bolt	8			Plunger (3540)	3
16	9.802-884.0	Washer	16	36*	See Kits Below	Copper Spacer	3
17	9.803-198.0	Copper Washer 3/8	1	37*	See Kits Below	O-Ring Ring	3
18	9.802-925.0	Brass Plug 3/8	2	38*	See Kits Below	Teflon Ring	3
				39	9.803-144.0	Plunger Rod	3
ITEM	PART NO.	DESCRIPTION	QTY				

SM.3 SERIES PUMP EXPLODED VIEW PARTS LIST (CONT.)

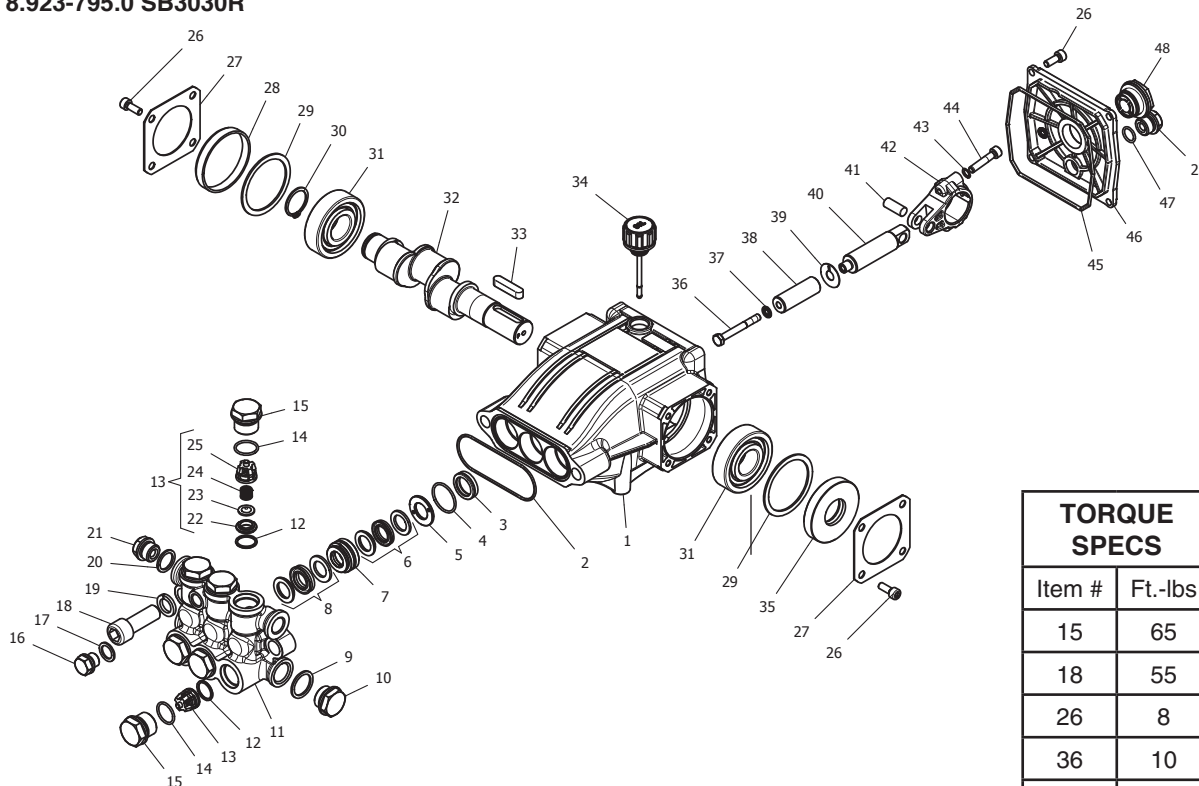
ITEM	PART NO.	DESCRIPTION	QTY
40	9.803-158.0	Connecting Rod	3
41	8.751-228.0	Connecting Rod Pin	3
42	9.803-218.0	Spring Washer	6
43	9.803-238.0	Connecting Rod Screw	6
44	70-060009	O-Ring, Ø2.62 x 126.67	1
45	8.751-229.0	Crankcase Cover	1
46	9.803-197.0	O-Ring, Ø1.78 x 14	1
47	9.803-202.0	Sight Glass 3/4	1
48	9.802-939.0	Cover Screw	5

* Available in kit (See below)

REPAIR KIT NO.	8.725-360.0	8.725-358.0	8.725-361.0	8.725-359.0	8.725-237.0	8.933-023.0	9.802-603.0	9.802-609.0
KIT DESCRIPTION	Plunger Seal 4035 18mm	Plunger Seal 3540 15mm	Complete Seal Packing 4035 18mm	Complete Seal Packing 3540 15mm	Plunger 4030 18mm	Plunger 3540 15mm	Complete Valve	Plunger Oil Seals
ITEM NUMBERS INCLUDED	3, 5, 7	3, 5, 7	3, 4, 5, 6, 7	3, 4, 5, 6, 7	33, 34, 35, 36, 37, 38	33, 34, 35, 36, 37, 38	11, 12, 13	2
NO. OF CYLINDERS KIT WILL SERVICE	3	3	1	1		1	6	3

SB3030R SERIES PUMP EXPLODED VIEW

8.923-795.0 SB3030R



SB3030R SERIES PUMP EXPLODED VIEW PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
1	8.754-841.0	Crankcase	1
2	8.754-846.0	O-ring Ø1.78 X 72.75	1
3*	See Kits Below	Plunger Oil Seal	3
4*	See Kits Below	O-ring Ø1.78 X 26.7	3
5*	See Kits Below	Washer, Pressure Ring 16 mm	3
6*	See Kits Below	U-Seal, 16 mm	3
7*	See Kits Below	Pressure Ring, 16 mm	3
8*	9.803-199.0	U-Seal, 16 mm	3
9	9.803-199.0	Washer, Copper G1/2	1
10 9	.802-926.0	Plug, Brass G1/2	1
11	8.754-852.0	Manifold	1
12*	8.717-233.0	O-ring Ø1.78 X 15.6	6
13*	See Kits Below	Valve Assembly	6
14*	9.803-948.0	O-ring Ø1.78 X 18.77	6
15	9.803-949.0	Valve Plug	6
16	8.754-851.0	Plug, Brass G1/4	1
17	8.718-973.0	Washer, Copper G1/4	1
18	8.754-854.0	Bolt, Manifold M14 X 40	2
19	8.754-850.0	Washer, Lock	2

ITEM	PART NO.	DESCRIPTION	QTY
20	9.803-198.0	Washer, Copper G3/8	1
21	8.707-262.0	Plug, Brass G3/8	2
22*	See Kits Below	Valve Seat	6
23*	See Kits Below	Valve Plate	6
24*	See Kits Below	Valve Spring	6
25*	See Kits Below	Valve Cage	6
26	9.802-939.0	Screw, M6 X 16	12
27	8.717-137.0	Bearing Cover	2
28	9.803-954.0	Bearing Seal	1
29	8.754-843.0	Seal Spacer, Crankshaft	2
30	9.802-914.0	Snap Ring, 25 mm	1
31	9.803-955.0	Bearing, Ball	2
32	8.754-829.0	Shaft, 24 mm 3030	1
	8.754-830.0	Shaft, 24 mm 402	1
33	9.803-167.0	Key, Crankshaft	1
34	8.754-219.0	Oil Dipstick	1
35	8.933-010.0	Seal, Crankshaft	1

SB3030R SERIES PUMP EXPLODED VIEW PARTS LIST

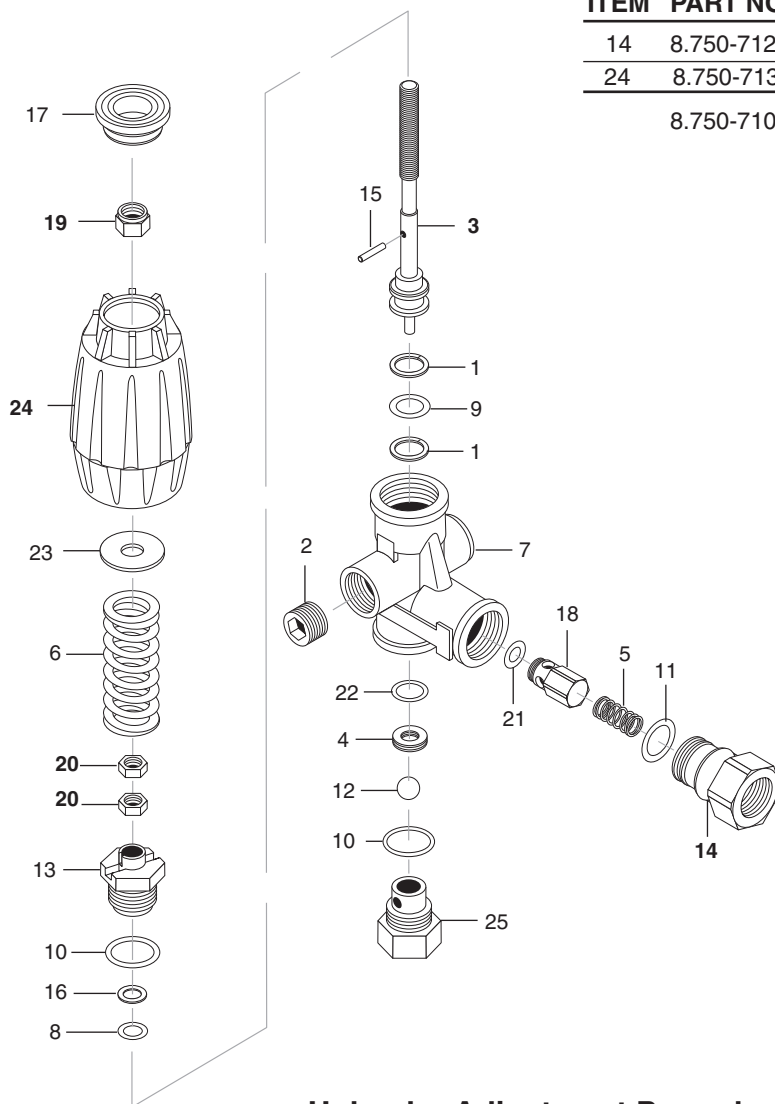
ITEM	PART NO.	DESCRIPTION	QTY
36*	8.754-855.0	Bolt, Plunger	3
37*	8.754-092.0	Spacer, Copper	3
38*	8.754-848.0	Plunger, 16 mm	3
39*	9.803-962.0	Spacer, Copper	3
40	8.754-827.0	Plunger Rod	3
41	9.803-965.0	Connecting Rod Pin	3
42	9.803-966.0	Connecting Rod	3
43	9.803-218.0	Washer, 6 mm	6
44	8.933-020.0	Screw, Connecting Rod	6
45	8.754-847.0	O-ring Ø2.62 X 111.62	1
46	8.754-842.0	Cover, Crankcase	1
47	9.803-906.0	O-ring Ø1.78 X 14	1
48	9.803-202.0	Sight Glass, G3/4	1

* Available in kit (See below)

REPAIR KIT NUMBERS	8.754-856.0	8.754-857.0	8.754-858.0	8.754-859.0	9.803-937.0
Kit Description	Plunger Seal 16 mm	Seal Packing 16 mm	Plunger 16 mm	Complete Valve	Plunger Oil Seals
ITEM NUMBERS INCLUDED	4, 5, 6	4, 5, 6, 7, 8	36, 37, 38, 39	12, 13, 14	3
NUMBER OF CYLINDERS KIT WILL SERVICE	3	1	1	6	3

VTR3 UNLOADER EXPLODED VIEW AND PARTS LIST

8.750-300.0, 8 GPM, 4500 PSI EZ Start



ITEM	PART NO.	DESCRIPTION	QTY
14	8.750-712.0	Outlet Fitting	1
24	8.750-713.0	Knob, Unloader	1
8.750-710.0		Repair Kit, VRT3, 4500 PSI	
		(Kit Items: 1, 4, 8-12, 16, 21-22)	

Unloader Adjustment Procedures

1. Remove lock nut (Item 19).
2. Remove adjustment knob (Item 24).
3. Loosen the two (2) nuts (Item 20), move them upward on stem (Item 3) until you see 4 or more threads below the nut.
4. Re-attach adjusting knob (Item 24).
5. Start machine. Open the trigger of the spray gun. Increase pressure by turning adjustment knob (Item 24) clockwise until pressure is at the desired operating pressure.
6. Remove the adjustment knob (Item 24), tighten the lower nut (Item 20) tightly against the upper nut (Item 20). Re-attach adjustment knob (Item 24) and screw down until contact is made with the nuts (Items 20). Screw down lock nut (Item 19) onto the stem (Item 3) until the threads cut into the nylon insert of the lock nut (Item 19).

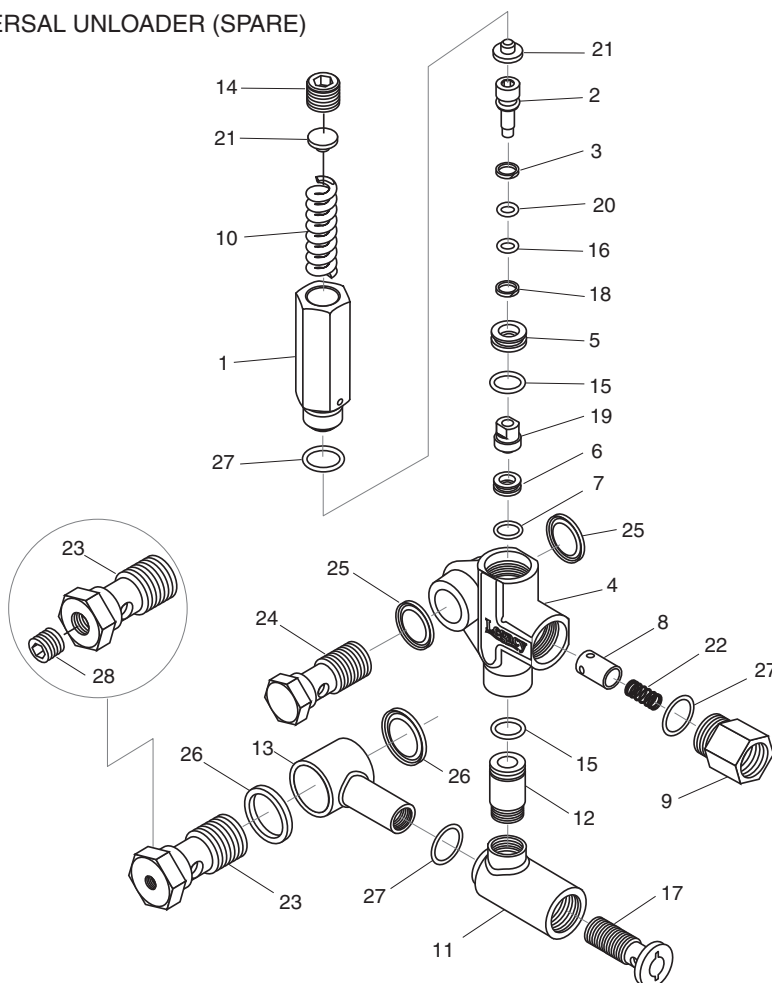
*If adjustment knob (Item 24) **DOES NOT** make contact with upper nut (Items 20), remove adjusting knob (Item 24), re-adjust (raise) nuts (Items 20) on stem (Item 3) and re-attach adjustment knob (Item 24), then repeat step #6.

If adjustment knob (Item 24) **DOES make contact with upper nut; release the trigger of the spray gun and watch the pressure gauge for the pressure increase ("spike"). This "spike" **SHOULD NOT** exceed 500 psi above the operating pressure. If "spike" pressure exceeds the 500 psi limit, remove the adjusting knob (Item 24) and re-adjust (lower) the nuts (Items 20) on the stem (Item 3). Re-attach the adjusting knob (Item 24), then repeat step #6.

UU1 UNLOADER EXPLODED VIEW

9.175-018.0

UU1 3500PSI, UNIVERSAL UNLOADER (SPARE)

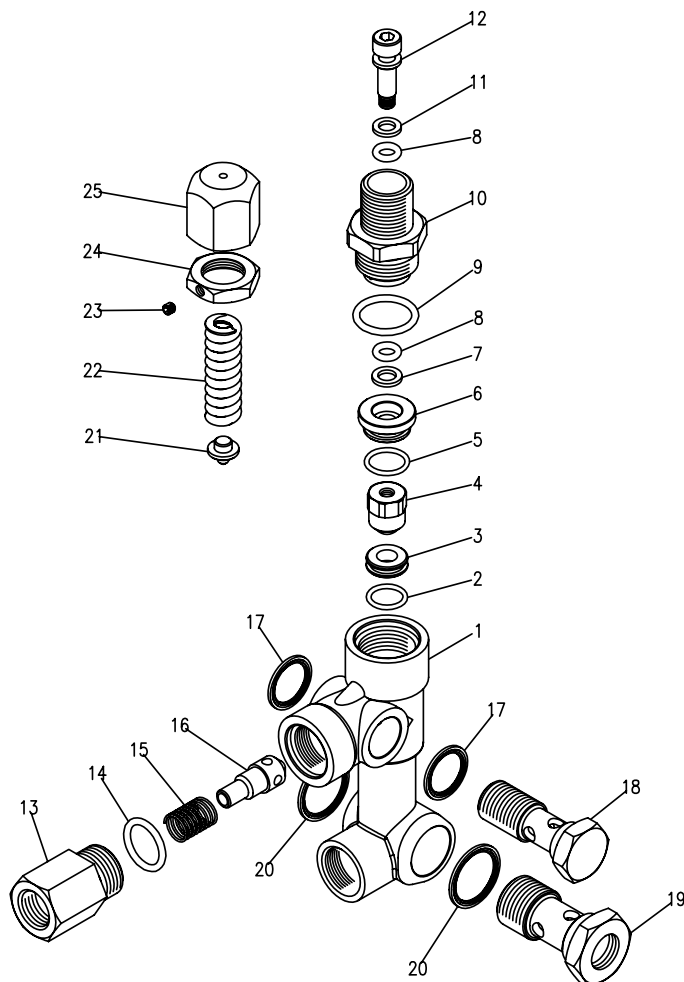


UU1 UNLOADER EXPLODED VIEW PARTS LIST

ITEM	PART #	DESCRIPTION	KIT	QTY	ITEM	PART #	DESCRIPTION	KIT	QTY
1	8.751-394.0	Piston Housing	D	1	17	9.149-006.0	Sliding Connector Guide		1
2		Piston	C, D	1	18		O-Ring Backup 6 x 1.45 x 1.68	A, D	1
3		Piston O-Ring Back Up	A, D	1	19		Ball Housing Assy	C, D	1
4	8.749-796.0	Main Block		1	20		O-Ring 6.75 x 1.78 BN80	A, D	1
5	9.152-372.0	Piston Ring	D	1	21		Spring Seat	C, D	2
6		Ball Seat	C, D	1	22		Plunger Spring	B	1
7		O-Ring 10.5 ID x 1.5 CS	A,C,D	1	23	8.917-699.0	Banjo Bolt 1/2" Short		1
8		Plunger	B	1		8.917-700.0	Banjo Bolt 1/2"-1/4" NPT Short		1
9	9.152-016.0	Plunger Housing		1	24	8.917-698.0	Banjo Bolt 3/8" Short		1
10		Bypass Spring	C, D	1	25	9.802-893.0	Seal Washer 3/8"		2
11	9.149-001.0	Low Pressure Port		1	26	9.803-921.0	Seal Washer 1/2"		2
12	9.152-017.0	Sliding Connector, 30mm		1		9.802-893.0	Seal Washer 3/8"		2
	8.762-005.0	Sliding Connector, 40mm, Long		1	27		O-Ring 15 ID x 2CS	A,B,D	3
13	9.149-002.0	Sliding Connector H 1/2"		1	28	8.706-865.0	Plug, 1/4" Countersunk		1
	9.149-005.0	Sliding Connector H 3/8"		1					
14	9.196-011.0	Plug 5/8 -18 UNF	D	1	Kit A	9.104-038.0	O-Ring Repair Kit		
15		O-Ring 12 ID x 2 CS	A, D	2	Kit B	9.104-039.0	Outlet Kit		
16		O-Ring 6 ID X 2 CS	A, D	1	Kit C	9.104-040.0	Stem Basic Kit		
					Kit D	8.920-045.0	UU1 Complete Stem Kit		

VBA 35 UNLOADER EXPLODED VIEW

9.803-900.0 6.6GPM@4000PSI



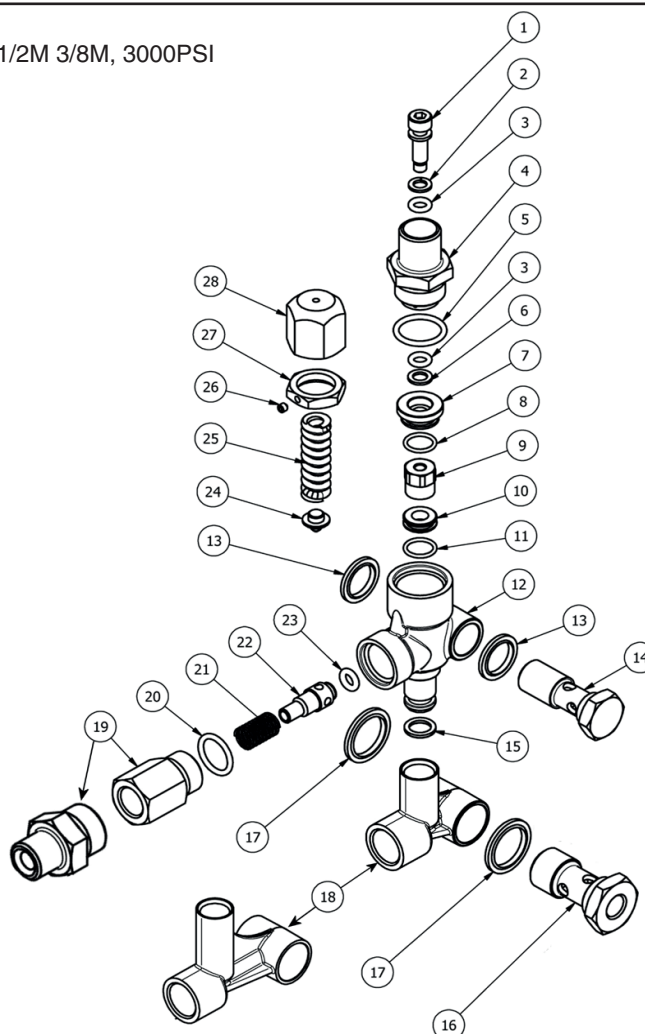
VBA35 UNLOADER EXPLODED VIEW PARTS LIST

ITEM	PART NO.	DESCRIPTION	KIT	QTY	ITEM	PART NO.	DESCRIPTION	KIT	QTY
1	9.803-902.0	Body Valve (KG)		1	16	9.803-917.0	Poppet	B	1
	9.803-901.0	Body Valve (KS)		1	17	9.802-893.0	Seal Washer 3/8		2
2	9.803-903.0	O-Ring	A, C	1	18	9.803-919.0	Banjo Bolt, 3/8		1
3	9.803-904.0	Seat	C	1	19	9.803-920.0	Banjo Bolt 1/2 w/ 1/4" Pilot		1
4	9.803-905.0	Ball, Sub-assy	C	1	20	9.803-921.0	Seal Washer 1/2		2
5	9.803-906.0	O-Ring	A	1	21	9.803-922.0	Plate	C	1
6	9.803-907.0	Guide Bushing		1	22	9.803-923.0	Spring	C	1
7	9.803-908.0	Teflon Ring	A	1	23	9.803-924.0	Set Screw		1
8	9.803-909.0	O-Ring	A	2	24	9.803-925.0	Nut		1
9	9.803-910.0	O-Ring	A	1	25	9.803-926.0	Brass Handle		1
10	9.803-911.0	Connector		1					
11	9.803-912.0	Teflon Ring	A	1	Kit A	9.803-927.0	O-Ring Repair Kit		
12	9.803-913.0	Stem	C	1	Kit B	9.803-928.0	Outlet Kit		
13	9.803-914.0	Connector, Female		1	Kit C	9.803-929.0	Stem Repair Kit		
14	9.803-191.0	O-Ring	A, B	1					
15	9.803-916.0	Spring	B	1					

VBT UNLOADER EXPLODED VIEW

8.754-696.0

UNLOADER, VBT BANJO 1/2M 3/8M, 3000PSI



VBT UNLOADER EXPLODED VIEW PARTS LIST

ITEM	PART #	DESCRIPTION	KIT	QTY	ITEM	PART #	DESCRIPTION	KIT	QTY
1*	8.754-929.0	Stem	C	1	17	9.803-914.0	Seal Washer 1/2)		1
2*	9.803-912.0	Backup Ring	A	1	18	8.754-937.0	Bypass Manifold		1
3*	8.754-930.0	O-ring, Ø2.62 x 6.02	A	2	19	9.802-892.0	Outlet Connector 3/8 MPT		1
4	8.730-882.0	Stem Connector		1	20*	9.803-191.0	O-ring, Ø2.62 X 17.13	A,B	1
5*	9.803-193.0	O-ring, Ø2.62 x 20.24	A	1	21*	8.933-017.0	Poppet Spring	B	1
6*	9.803-908.0	Backup Ring	A	1	22*	8.754-939.0	Poppet	B	1
7	9.803-907.0	Guide Bushing		1	23*	8.754-940.0	O-ring, Ø3 x 6	A,B	1
8*	9.803-906.0	O-ring, Ø1.78 x 14	A	1	24*	8.754-961.0	Plate	C	1
9*	8.754-959.0	Ball SubAssembly	C	1	25*	8.933-018.0	Spring 1500-4000 PSI	C	1
10*	8.754-933.0	Seat	C	1	26	8.933-021.0	Set Screw		1
11*	8.754-934.0	O-ring, Ø1.78 x 12.42	A,C	1	27	9.803-925.0	Nut		1
12	8.754-935.0	Valve Body		1	28	9.803-926.0	Knob, Brass, Unloader		1
13	9.802-893.0	Seal Washer 3/8		1					
14	9.803-919.0	Banjo Bolt 3/8		1					
15*	8.754-936.0	O-ring, Ø2.62 x 10.78	A	1					
16	9.803-920.0	Banjo Bolt, 1/2, w/1/4" Port		1					

* Included in Kit

Kit A 8.754-941.0 O-Ring Repair Kit
Kit B 8.754-942.0 Outlet Repair Kit
Kit C 8.754-957.0 Stem Repair Kit