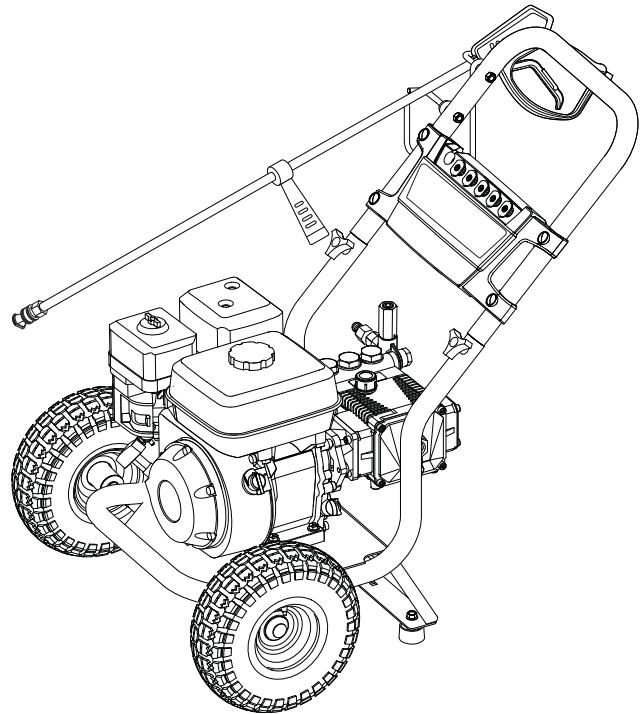
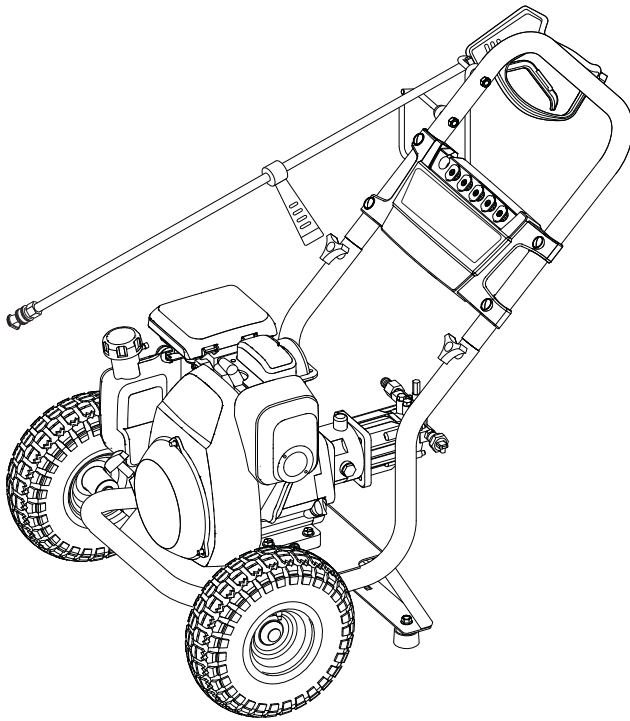
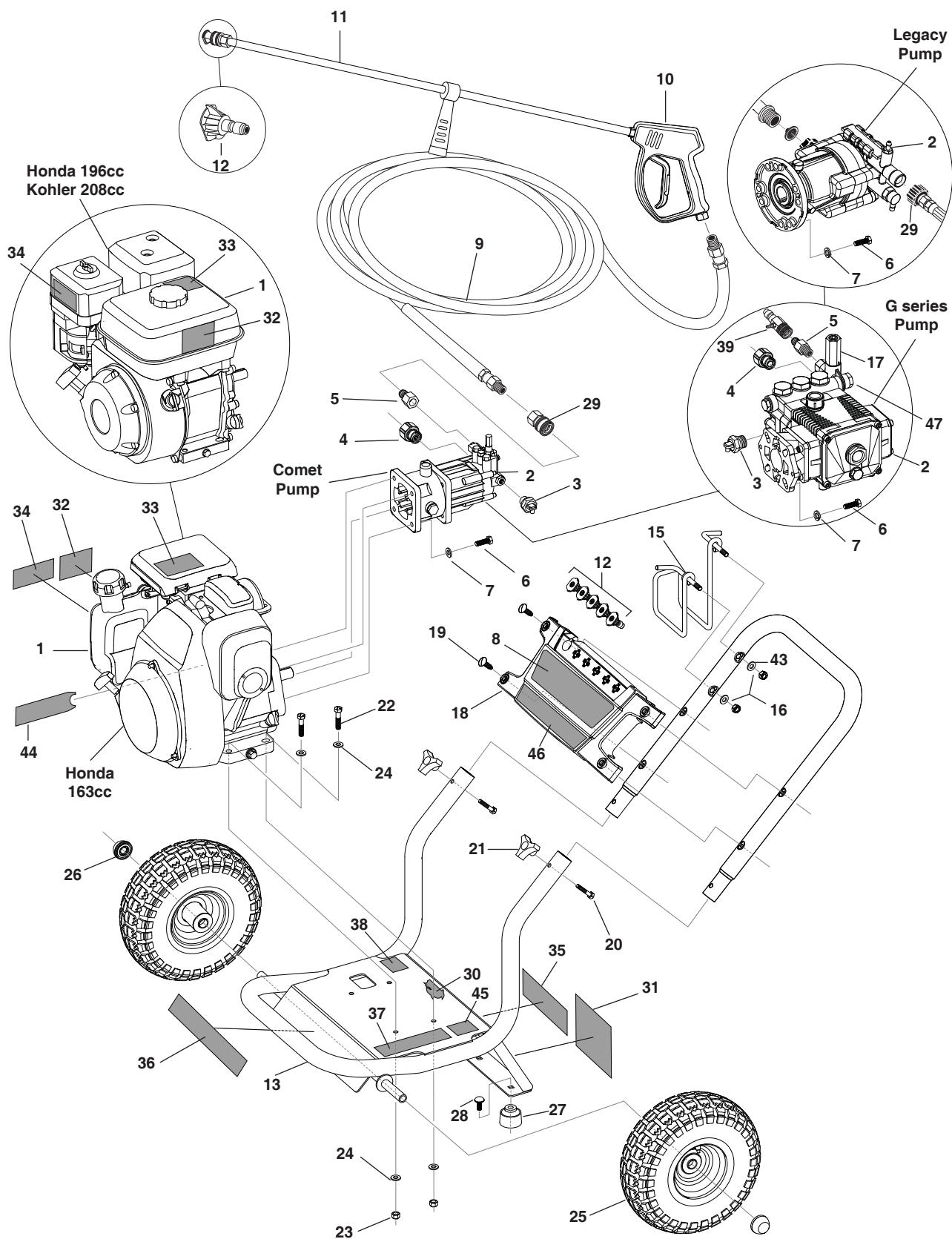


SERVICE MANUAL



MODEL #	ORDER #
XPERT-HD 2.3/23 P	1.107-103.0
XPERT-HD 2.3/23 P	1.107-104.0
XPERT-HD 2.5/27 P	1.107-106.0
PD3-23326	1.107-091.0
PD3-23327	1.107-092.0
PD3-27324	1.107-094.0
DA-232336	1.107-097.0
DA-232337	1.107-098.0
DA-252739	1.107-100.0
DD-232336	1.107-134.0
DD-232337	1.107-135.0
DD-252737	1.107-243.0
DD-252737	1.107-136.0
DD-252797	1.107-198.0
DD-263097	1.107-197.0
RG-253037	1.107-236.0

EXPLODED VIEW



EXPLODED VIEW PARTS LIST

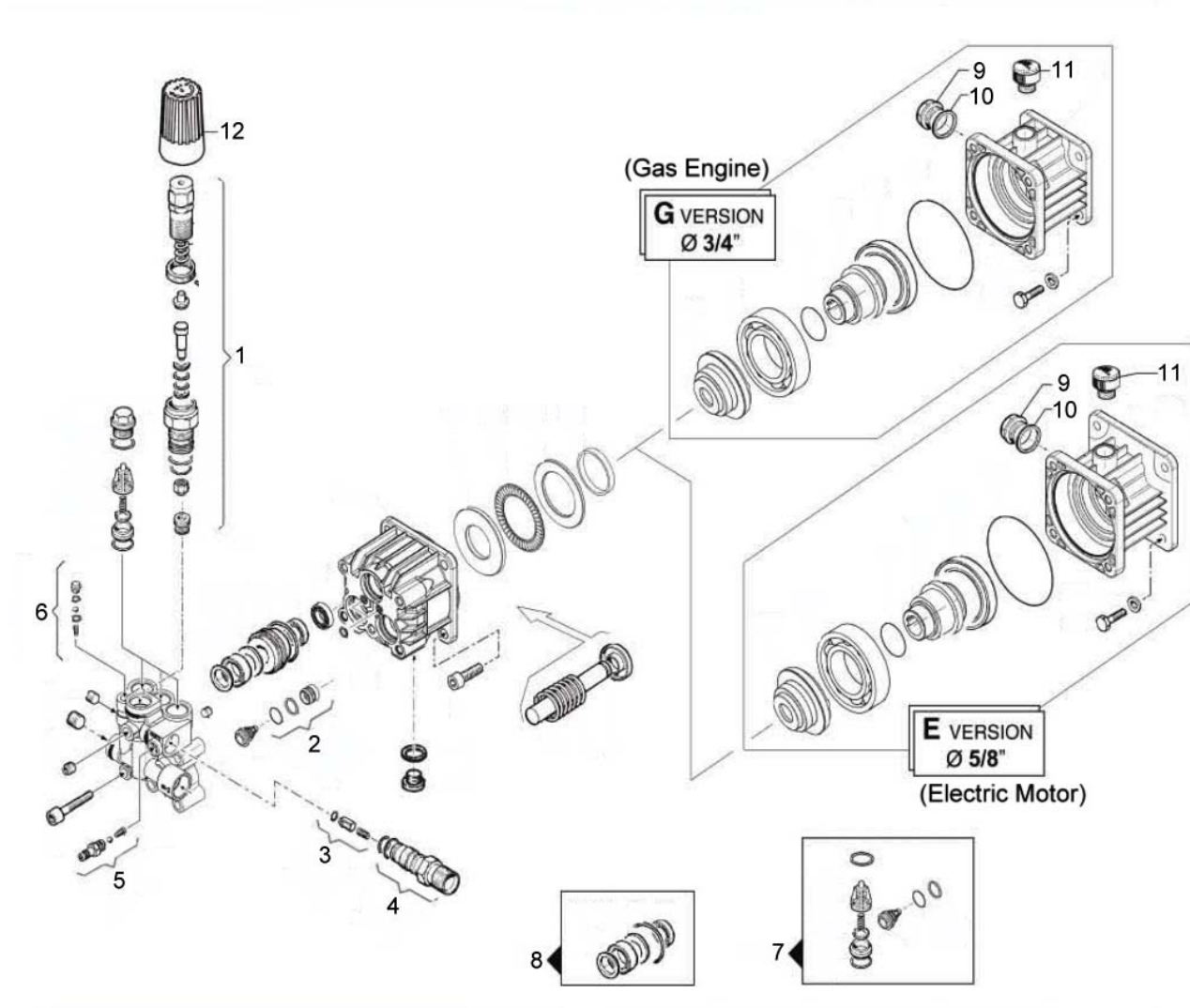
ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	9.194-015.0	Engine Honda GC160 QHA (163cc)-(Legacy & Comet Pump Models)	1	11	8.783-039.0	Wand, 30" (All Models Except 187cc RG)	1
	9.802-317.0	Engine, Honda, GX200UTQX2 (196cc Models)	1		9.112-533.0	Lance-AL Quick Connect-Male 3000 psi (187cc RG Model)	1
	8.751-876.0	Engine, Kohler CH270 Recoil (208cc) (All Models Except Comet Pump)	1	12	9.104-024.0	Quick connect nozzle Kit (030) (All Models Except Legacy Pump)	1
	9.194-081.0	Honda Engine GC190 (187cc)	1		9.802-287.0	▲Nozzle, 0003, Red	1
2	(see page 7)	Comet Pump BXD Assy (163cc)	1		9.802-288.0	▲Nozzle, 0015, Yellow	1
	(see page 8)	Pump, Legacy Axial 2.6 GPM 3000PSI (163cc and 187cc Models)	1		9.802-289.0	▲Nozzle, 0025, Green	1
	(see page 10)	G.1 Series Pump, 2.5 @3500, 3400 RPM (196cc Models)	1		8.932-998.0	▲Nozzle, 0040, White	1
3	8.707-256.0	Pump protector, 1/2" PTP, 140DEG, P/N 1005 (All Models Except Legacy & Comet Pumps)	1		9.802-311.0	▲Nozzle, Black, Soaper	1
	8.707-254.0	Pump protector, 3/8" 145 DEG (Comet Pump Models)	1		8.924-865.0	Nozzle Assy 3.0, w/o Red & Black nozzle (For DD-252737)	1
4	9.802-146.0	Swivel, 1/2" MP X 3/4", GHF w/strainer (All Models Except Legacy Pump Models)	1		9.104-016.0	Quick Connect Nozzle Kit (0325) (For Legacy Pump Models Only)	1
5	9.802-170.0	Nipple, 3/8" X 3/8", NPT ST Female	1	13	8.917-794.0	Frame O4-BLK Wrinkle Pro (All Models Except 187cc RG & 243.0)	1
6	6.965-007.0	5/16"-24X1" GR 5 SHCS THRU Hardener ZC	4		9.115-095.0	Powder Coated Frame Blk Wrinkle (187cc RG Model)	1
7	9.802-813.0	Washer, 5/16", Lock, Split Ring	4		8.922-418.0	Frame O4-Green (243.0)	1
8	9.138-437.0	Karcher branding label (Xpert HD)	1	14	9.140-131.0	Handle BLK Wrinkle (All Models Except 187cc RG)	1
	9.138-439.0	Landa branding label (PD Models)	1		8.919-740.0	Powder Coated Handle Ga18 (187cc RG Model)	1
	9.138-440.0	Hotsy branding label (DA Models)	1		8.922-422.0	Handle Green (243.0)	1
	8.750-881.0	Shark branding label (DD and RG Models)	1	15	9.142-014.0	Hanger RT side	1
	8.753-775.0	Branding Label (243.0)	1	16	9.802-778.0	Nut, 5/16" Whiz Loc Flange (All Models Except 187cc RG)	2
9	8.739-133.0	Hose, 3/8" X 25' 1 Wire Tuff-Skin (163cc PD Models)	1		9.802-786.0	Nut, 5/16, Hex, NC (187cc RG Model)	2
	8.739-026.0	Hose, 3/8" X 50' 1 Wire Tuff-Skin (196cc PD Models)	1	17	8.754-696.0	Unloader, VBT Banjo 1/2M 3/8M, 3000PSI	1
	8.739-106.0	Hose, 3/8" X 25' 1 Wire Tuff-Skin (163cc DA Models)	1	18	9.134-022.0	Name plate	1
	8.739-011.0	Hose, 3/8" X 50' 1 Wire Tuff-Skin (196cc DA Models)	1	19	9.196-049.0	Nylon Rivet	4
	8.739-124.0	Hose, 3/8" X 25' 1 Wire Tuff-Skin (163cc Xpert & DD Models)	1	20	9.196-307.0	1/4"-20 x 1-1/2" GR 2, Hex Bolt Zinc	2
	8.739-021.0	Hose, 3/8" X 50' 1 Wire Tuff-Skin (196cc, 208 cc Xpert and DD Models)	1	21	8.767-003.0	1/4"-20 Star Knob	2
	8.753-423.0	Hose HP DN6 25FT, 3600PSI M22 (187cc RG Models)	1	22	9.802-713.0	Bolt, 5/16" X 1-1/2", NC HH(612975) (All Models Except 187cc RG)	4
10	8.750-247.0	Gun, M407 (All Models Except 187cc RG)	1		9.186-010.0	5/16-18 X 1-1/2 GR 5 HHCS ZINC (187cc RG Model)	4
	9.112-012.0	AI BIT101 Trigger Gun (187cc RG Models)	1	23	9.802-776.0	Nut, 5/16", ESNA, NC	4
				24	8.718-980.0	Washer, 5/16", Flat, SAE(780452)	8
				25	8.754-186.0	Qh Wheel Assy, 10" Gray Steel Rim W/Tub	2
				26	9.182-506.0	Cap Black Plastic, 5/8"Fastener	2
				27	9.183-405.0	Rubber dampener	2
					9.183-411.0	Rubber buffer (Legacy Pump Models)	2

EXPLODED VIEW PARTS LIST (CONT)

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
28	9.196-308.0	5/16"-18 X 1/2" Carriage Bolt, A307 BLK (All Models Except Comet Pump)	2	45	9.801-590.0	Rating Plate, RG-253037	1
		(Legacy Pump Models)	1	46	8.753-554.0	Label, Rate Specs, Middle (187cc)-(RG Model)	1
	9.196-052.0	Hex Flange Cap Screw 5/16-18 x 3/4" (187cc RG Model)	1	47	8.706-865.0	Plug, 1/4"	
						▲ Not Shown	
29	9.802-166.0	Coupler, 3/8" Female, Brass	1				
	8.702-088.0	▲O-Ring, Viton, 3/8"	1				
	8.707-182.0	Coupler, Twist Connect, M22-Fx3/8" FNP					
		(163cc) (Legacy Models)	1				
	8.704-036.0	▲O-Ring, Viton, Twist Connect	1				
30	9.138-438.0	Shark branding label (DD Models)	1				
31	8.930-124.0	Label, Intended for Outdoor Use - Serial - Specs (All Models Except 187cc RG)	1				
32	9.800-008.0	Label, Danger Cool Engine (All Models Except 187cc RG)	1				
33	9.800-006.0	Label, Hot/Caliente w/Arrows (All Models Except 187cc RG)	1				
34	8.751-096.0	Label Regulation 4442.6	1				
35	8.783-034.0	Label, Quick Start Guide 1 (196 cc & 208 cc Models)	1				
	8.783-037.0	Label, Quick Start Guide 2 (163 cc) (Legacy & Comet Pump Models)	1				
	9.138-408.0	Quick Start Instruction Guide Sticker (187cc) (RG Model)	1				
36	8.750-809.0	Label, Operator Warnings Trilingual	1				
	8.783-035.0	Label, Operation Warnings Trilingual (187cc)-(RG Model)	1				
37	8.783-036.0	Label, Warning Pictogram (All Models Except 187cc RG)	1				
38	8.783-038.0	Label, Universal DB Rating, Ear Protection, Trilingual (All Models Except 187cc RG)	1				
39	9.802-216.0	Injector, Chem, Non Adj, 0.083 (G Series Pump Models /Sold separately to DD-252737)	1				
40	6.388-216.0	▲ Hose DN 5	1				
41	5.731-652.0	▲ Filter with weight	1				
42	9.802-958.0	▲ Shaft Key, 0.185 SQR X 1.75" (All Models Except Comet Pump Models)	1				
	9.194-883.0	▲ Shaft key 3/16"SQx1.5" (187cc)-(RG Model)	1				
43	9.198-003.0	5/16 Internal L/W .332 ID X .620 OD ZINC (187cc)-(RG Model)	2				
44	9.138-313.0	Caution Engine Oil Tag-Trilingual (187cc)-(RG Model)	1				

COMET PUMP BXD, 5/8" SHAFT EXPLODED VIEW

8.920-017.0 COMET PUMP BXD

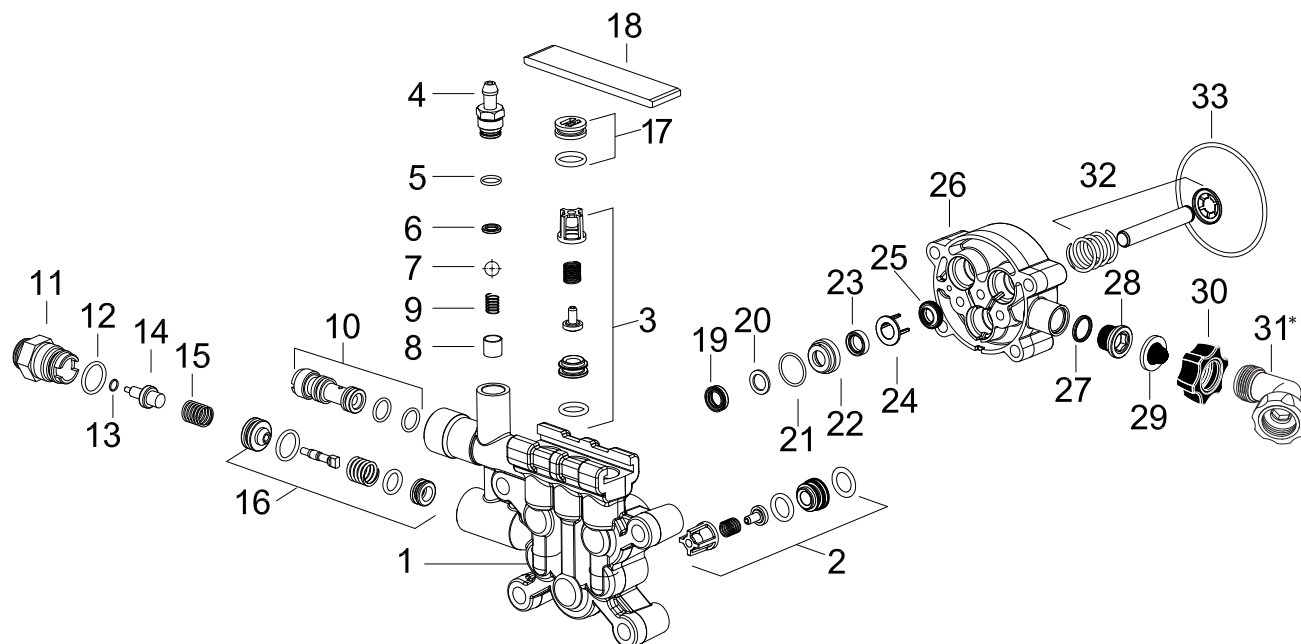


COMET PUMP BXD REPAIR KITS

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	8.725-556.0	Kit, valve	1	7	8.725-562.0	Kit, complete valve kit	1
2	8.725-557.0	Kit, suction valve	1	8	8.725-563.0	Kit, piston seal	1
3	8.725-558.0	Kit, check valve	1	9	8.725-564.0	Oil site glass	1
4	8.725-559.0	Kit, injector body	1	10	8.725-565.0	O-ring	1
5	8.725-560.0	Kit, chemical coupling	1	11	8.725-566.0	Oil cap	1
6	8.725-561.0	Kit, easy start	1	12	8.725-567.0	Knob	1

PUMP EXPLODED VIEW AND PARTS LIST

8.920-004.0



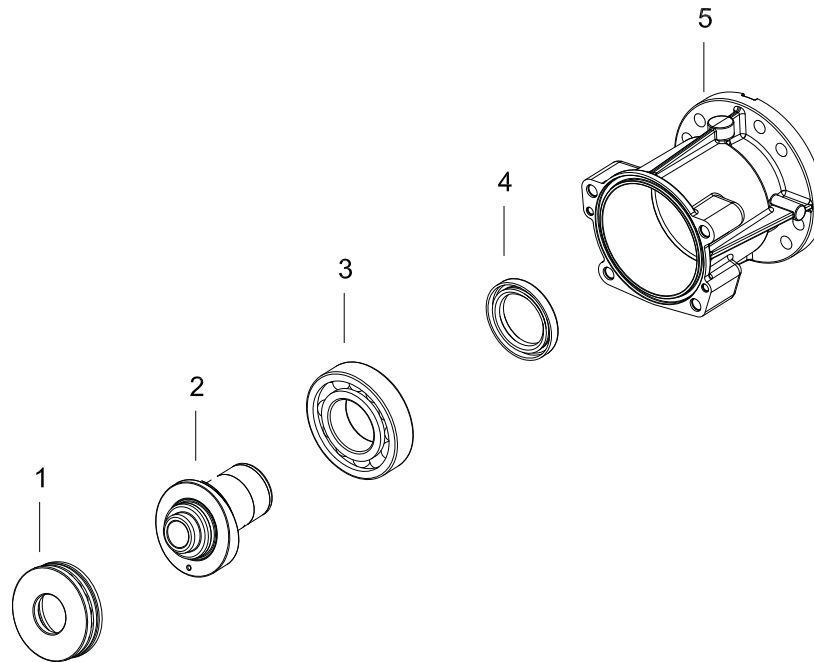
ITEM	PART #	DESCRIPTION	QTY
1	8.762-010.0	Cylinder Head	1
2	9.175-004.0	Valve Assy Horizontal	3
3	2.884-916.0	Valve Complete (Kit 3)	1
4	5.443-448.0	Nipple Chemistry	1
5	6.362-451.0	O-Ring Seal 8.0 x 1.0	1
6	6.362-175.0	O-Ring Seal, 5.28 x 1.78	1
7	7.401-909.0	Sphere 7 G40 - 1.4401	1
8	5.110-714.0	Sleeve	1
9	5.332-258.0	Helical Spring	1
10	9.139-372.0	Nozzle, INS 020/021 Pump	1
11	9.184-018.0	Outlet-Thermal Valve	1
12	6.362-480.0	O-Ring Seal, 12.42 x 1.78	1
13	7.362-507.0	O-Ring Seal 8 x 2 NBR 90	1
14	6.413-403.0	Thermo Valve Tin Coated	1

ITEM	PART #	DESCRIPTION	QTY
15	5.332-290.0	Helical Spring	1
16	9.175-005.0	Unloader Assembly	1
17	4.132-007.0	Drain Plug Replacement	1
18	5.003-062.0	Plate	1
19	9.177-301.0	High Pressure Seal	3
20	9.177-310.0	Back Ring	3
21	6.362-833.0	O-Ring Seal 12.5 x 1.73	3
22	9.155-011.0	Housing Low Pressure Seal	3
23	6.363-058.0	Grooved Ring	3
24	9.134-016.0	Spacer	3
25	6.365-393.0	Oil Sealing 12.20x4/6	3
26	9.133-007.0	Piston Guide	1
27	6.362-390.0	O-Ring Seal 15.6 x 1.8	1
28	9.134-019.0	Male Adapter	1
29	9.181-005.0	Filter Seal	1
30	9.154-044.0	Nut, Garden hose connector	1
31	8.751-121.0	◆Gooseneck, Hose Adapter (For pump guard or Filters)	1
32	9.139-370.0	Spare Part List, Piston	1
33	6.362-471.0	O-Ring Seal 80.0x3.0 NBR70	1

◆Not Included

PUMP EXPLODED VIEW PARTS LIST (CONT)

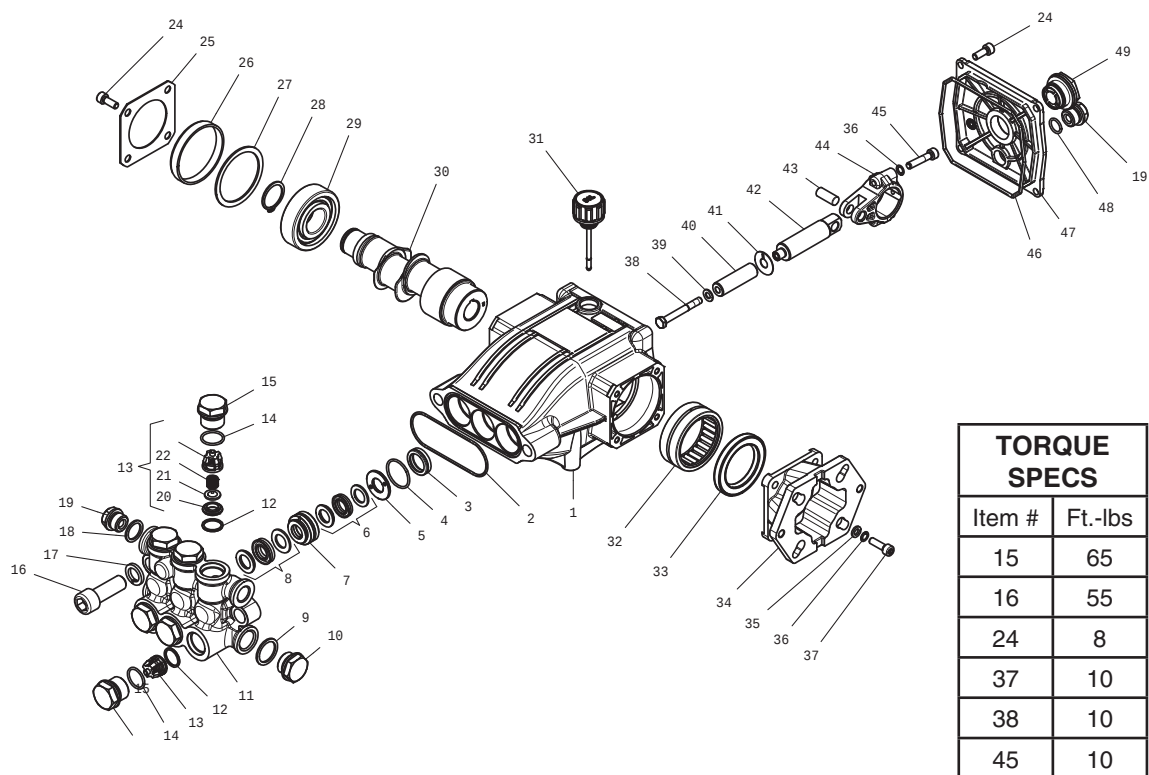
8.920-004.0 Housing View



ITEM	PART #	DESCRIPTION	QTY
1	9.166-016.0	Grooved Ball Bearing	1
2	9.135-018.0	Swash Plate Hor.	1
3	9.165-356.0	Ball Bearing No 6207	1
4	9.177-314.0	Radial Seal 35 x 52 x 7	1
5	9.135-016.0	Oil Housing	1

LP SERIES PUMP EXPLODED VIEW

8.923-757.0 LP2535G
 8.923-771.0 HP2535G
 8.923-785.0 KP2535G
 8.923-799.0 SP2535G



LP SERIES PUMP EXPLODED VIEW PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	8.754-841.0	Crankcase	1	19	8.707-262.0	Plug, Brass G3/8	1
2	8.754-846.0	O-ring Ø1.78 X 72.75	1	20*	See Kits Below	Valve Seat	6
3*	See Kits Below	Plunger Oil Seal	3	21*	See Kits Below	Valve Plate	6
4*	See Kits Below	O-ring Ø1.78 X 26.7	3	22*	See Kits Below	Valve Spring	6
5*	See Kits Below	Washer, Pressure Ring 14 mm	3	23*	See Kits Below	Valve Cage	6
6*	See Kits Below	U-Seal, 14 mm	3	24	9.802-939.0	Screw, M6 X 16	12
7*	See Kits Below	Pressure Ring, 14 mm	3	25	8.717-137.0	Bearing Cover	2
8*	See Kits Below	U-Seal, 14 mm	3	26	9.803-954.0	Bearing Seal	1
9	9.803-199.0	Washer, Copper G1/2	1	27	8.754-843.0	Seal Spacer, Crankshaft	1
10	9.802-926.0	Plug, Brass G1/2	1	28	9.802-914.0	Snap Ring, 25 mm	1
11	8.754-853.0	Manifold	1	29	9.803-955.0	Bearing, Ball	1
12*	8.717-233.0	O-ring Ø1.78 X 15.6	6	30	8.754-831.0	Shaft, 3/4" Hollow 2535G	1
13*	See Kits Below	Valve Assembly	6		8.754-834.0	Shaft, 3/4" Hollow 3035G	1
14*	9.803-948.0	O-ring Ø1.78 X 18.77	6	31	8.754-219.0	Oil Dipstick	1
15	9.803-949.0	Valve Plug	6	32	8.754-840.0	Bearing Needle	1
16	8.754-854.0	Bolt, Manifold M14 x 40	2	33	8.754-826.0	Seal, Crankshaft	1
17	8.754-850.0	Washer, Lock	2	34	8.754-863.0	Flange, Engine	1
18	9.803-198.0	Washer, Cooper G3/8	1	35	9.803-210.0	Washer	4
				36	9.803-218.0	Washer 6mm	10

LP SERIES PUMP EXPLODED VIEW PARTS LIST (CONT)

ITEM	PART NO.	DESCRIPTION	QTY
37	8.752-824.0	Screw, M6 x 20	4
38*	8.754-855.0	Bolt, Plunger	3
39*	8.754-092.0	Spacer, Copper	3
40*	8.754-849.0	Plunger, 14 mm	3
41*	9.803-962.0	Spacer, Copper	3
42	8.754-827.0	Plunger Rod	3
43	9.803-965.0	Connecting Rod Pin	3
44	9.803-966.0	Connecting Rod	3
45	8.933-020.0	Screw, Connecting Rod	6
46	8.754-847.0	O-ring Ø2.62 X 111.62	1
47	8.754-842.0	Cover, Crankcase	1
48	9.803-906.0	O-ring Ø1.78 X 14	1
49	9.803-202.0	Sight Glass, G3/4	1

* Available in kit (See below)

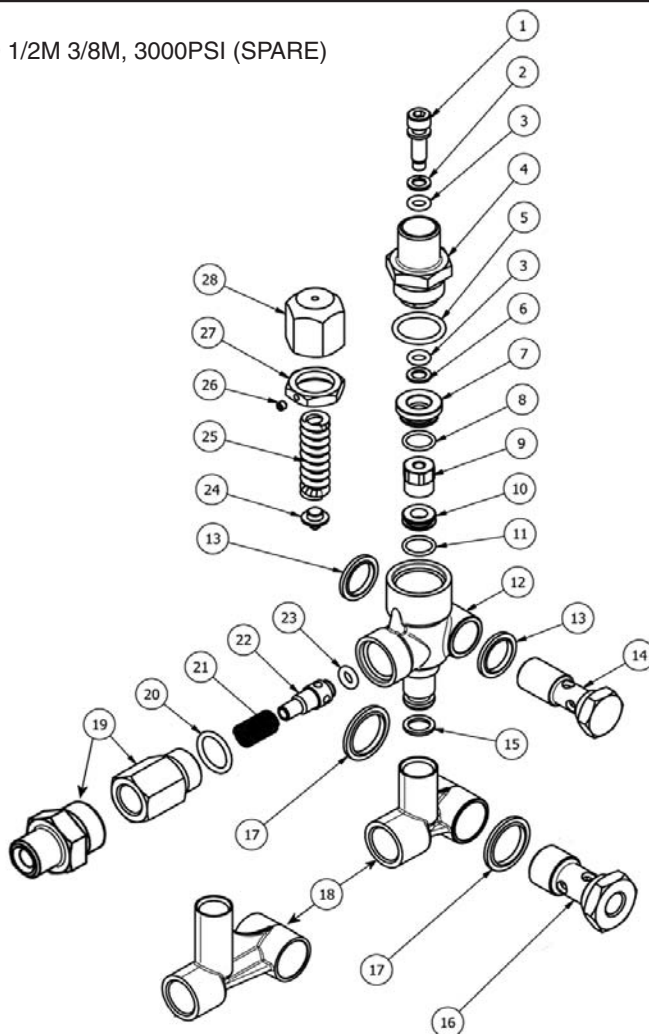
LP SERIES PUMP REPAIR KITS

REPAIR KIT NUMBER	8.754-860.0	8.754-861.0	8.754-862.0	8.754-859.0	9.803-937.0
KIT DESCRIPTION	Plunger Seals 14mm	Seal Packing 14mm	Plunger 14mm	Complete Valve	Plunger Oil Seals
ITEM NUMBERS INCLUDED	4, 6, 8	4, 5, 6, 7, 8	38, 39, 40, 41	12, 13, 14	3

VBT UNLOADER EXPLODED VIEW

8.754-696.0

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



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