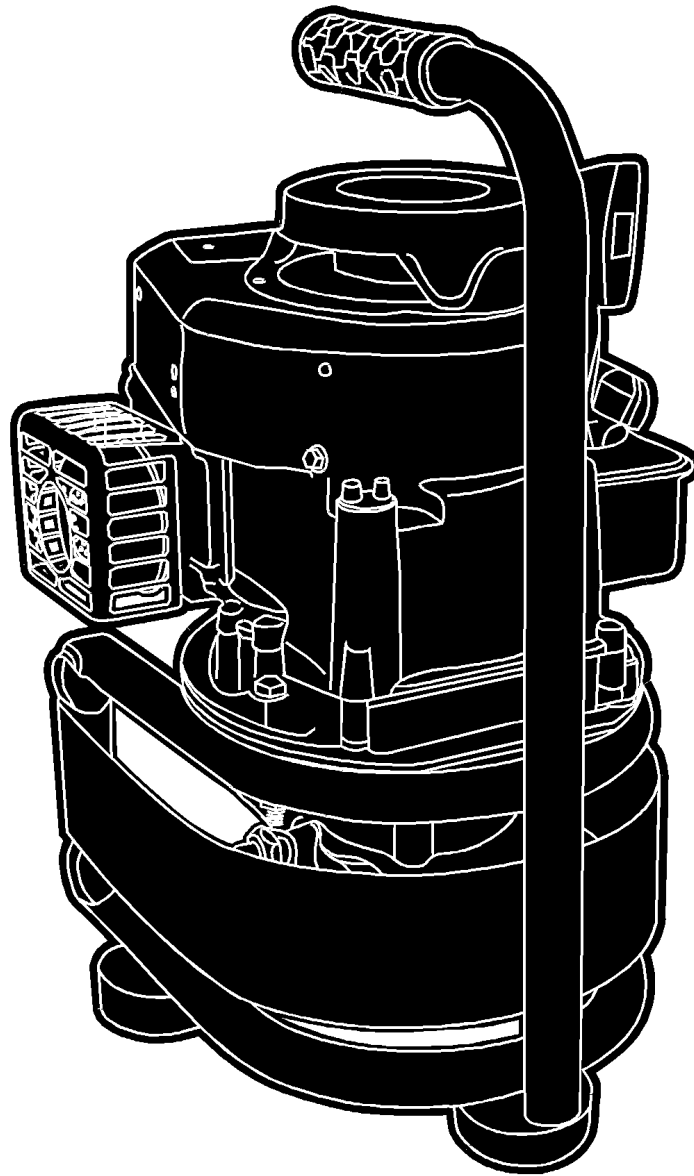


Parts Manual

Mfg. No: 1694-0
1,900 PSI



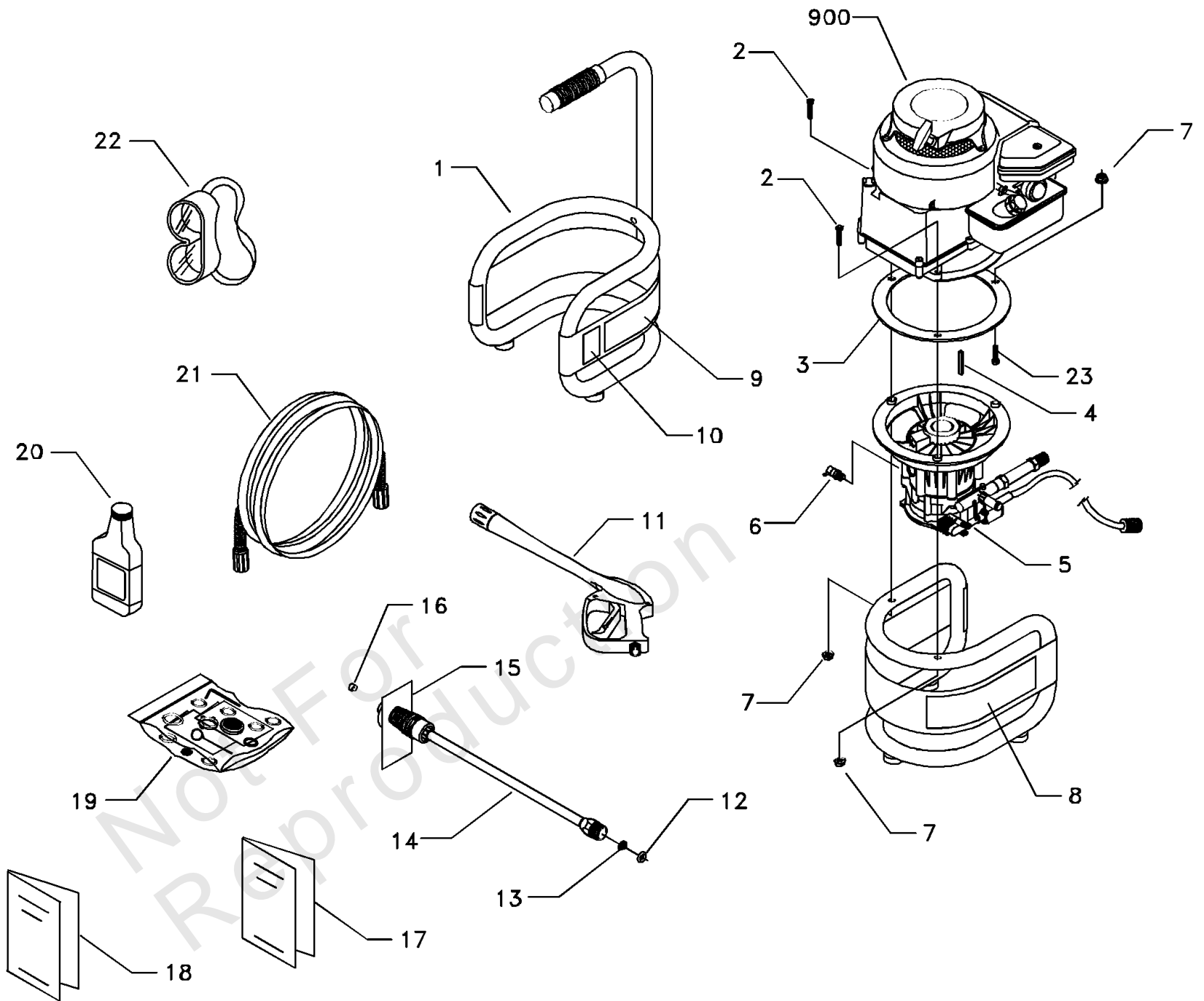
Model Components	Page
Main Unit.....	4
Pump.....	6
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Not For
Reproduction

Main Unit

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1694-0



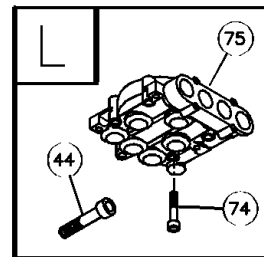
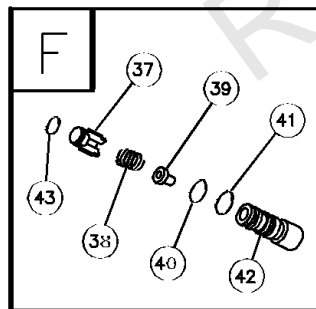
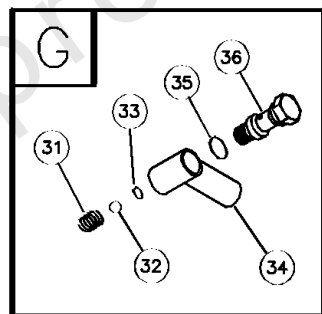
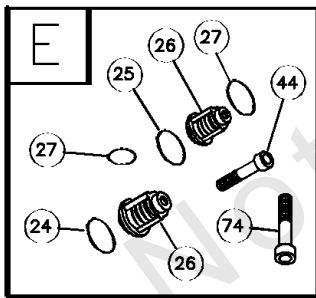
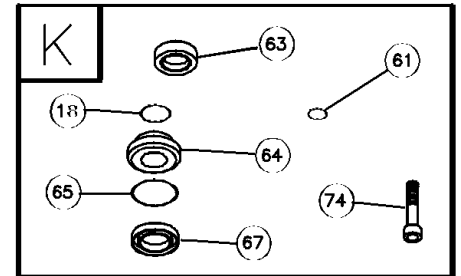
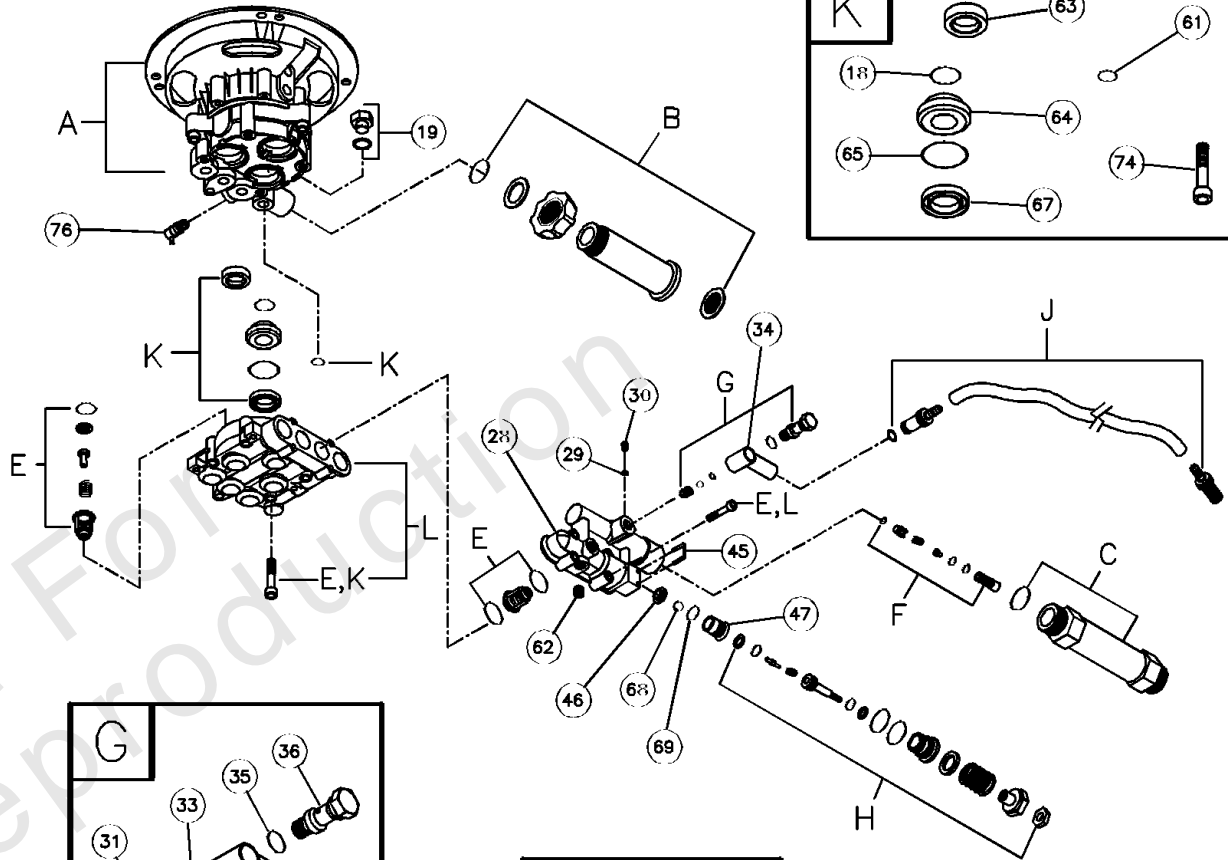
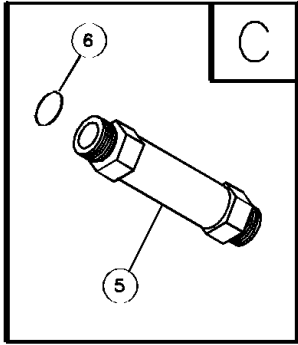
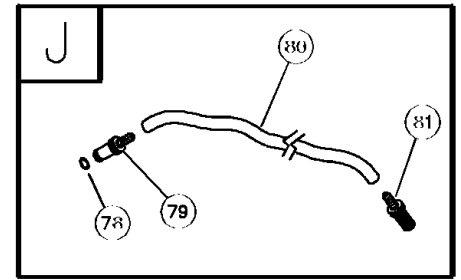
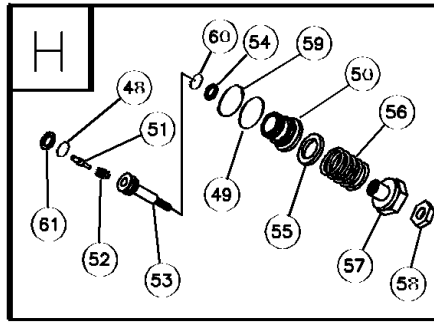
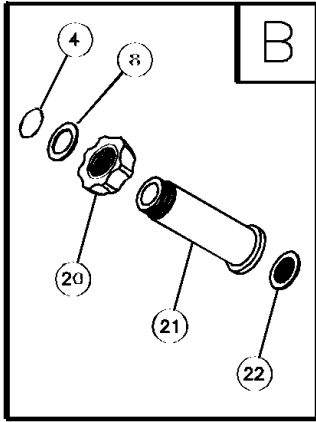
Main Unit

REF NO	PART NO	QTY	DESCRIPTION
1	A190259GS	1	ASSEMBLY, Base
2	A2013GS	2	CAPSCREW, Socket Head
3	190012GS	1	PLATE, Spacer
4	23139GS	1	KEY
5	189940GS	1	ASSEMBLY, Pump -(See "Pump" illustration and parts list)
6	21783GS	1	VALVE, Thermal Relief
7	52858GS	3	NUT, Lock
8	191133GS	1	DECAL, Unit
9	187915GS	1	DECAL, Warning/Danger
10	191134GS	1	DECAL, See Manual
11	B3263GS	1	GUN, High Pressure
12	97837GS	1	O-RING
13	B4224GS	1	SCREEN, Gun Inlet
14	B3335AGS	1	WAND, Adjustable Nozzle
15	97566GS	1	TAG, Nozzle Instructions
16	94804GS	1	NOZZLE, Replacement
17	190504GS	1	MANUAL, Owners
18	B3386GS	1	MANUAL, Engine
19	190862GS	1	KIT, Maintenance
20	BB3061BGS	1	OIL BOTTLE
21	190972GS	1	HOSE
22	87815GS	1	GOGGLES, Safety
23	B4951GS	1	CAPSCREW, Socket Head
900	~NSP	1	ENGINE

Pump

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1694-0



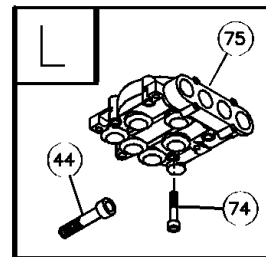
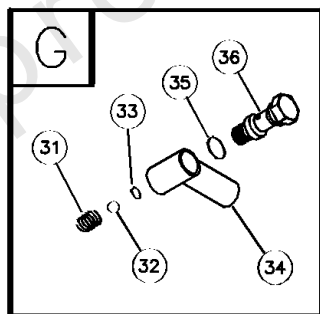
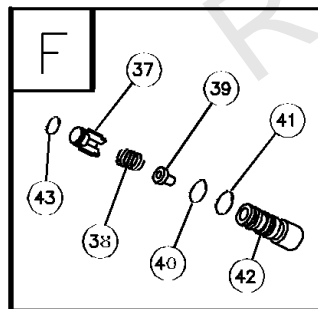
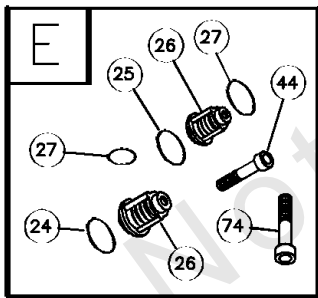
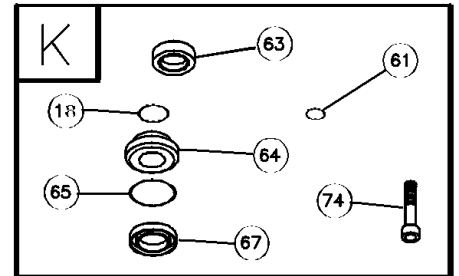
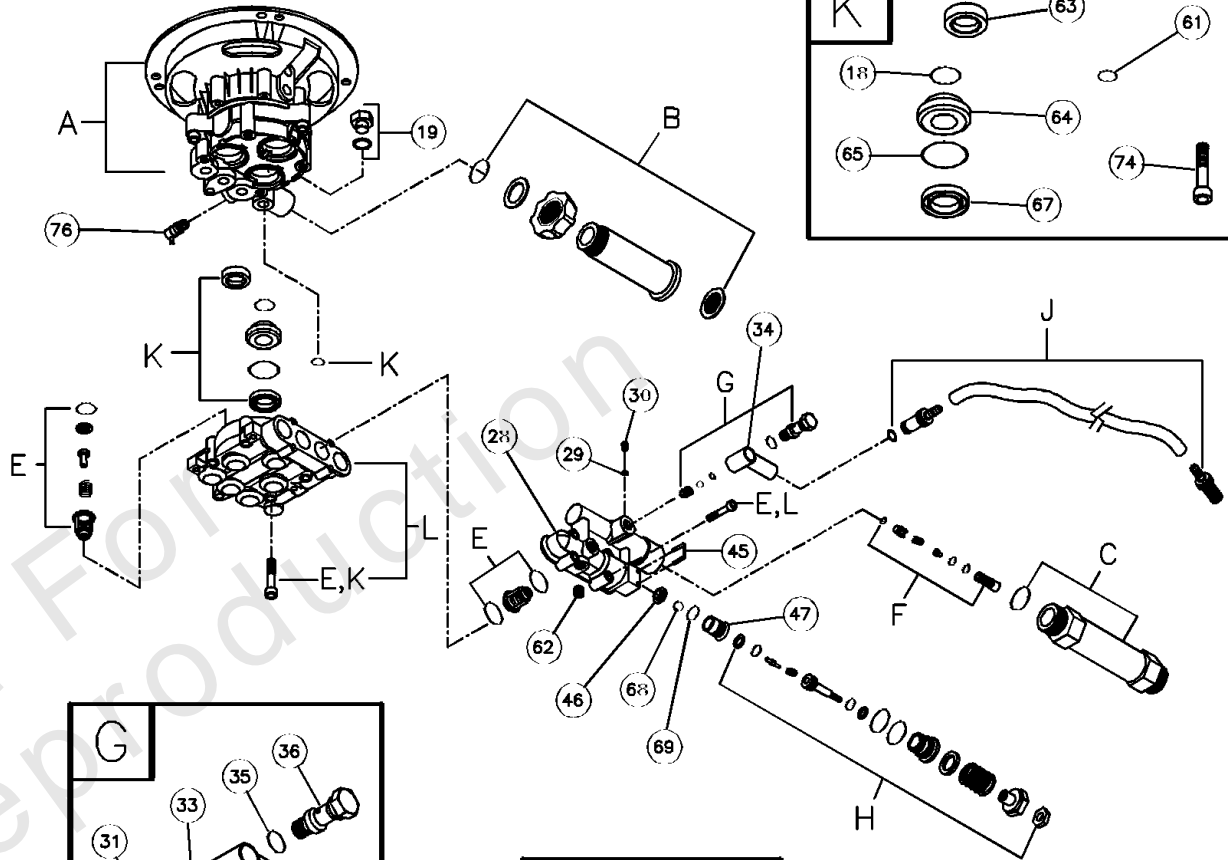
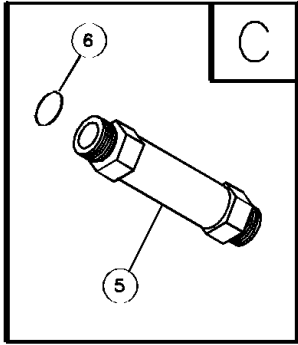
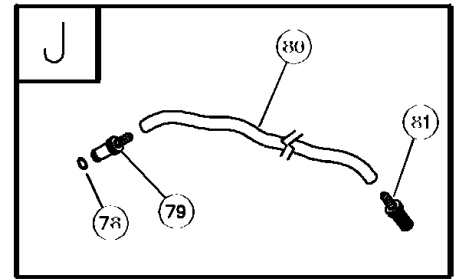
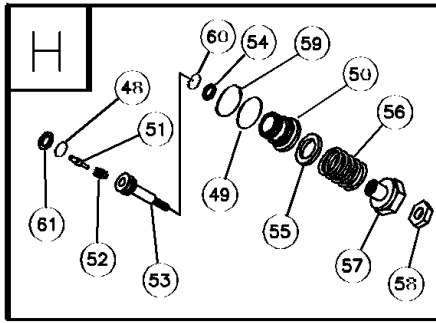
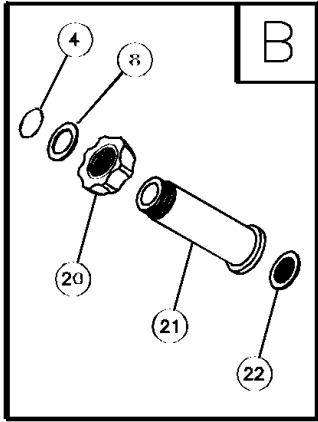
Pump

REF NO	PART NO	QTY	DESCRIPTION
19	190571GS	1	CAP, Oil
28	190627GS	1	MANIFOLD
29	190575GS	1	O-RING
30	190576GS	1	SCREW
34	190577GS	1	CONNECTION, Chemical Inlet
45	190578GS	1	PIN
46	190629GS	1	VALVE, Seat Plate, Plastic
47	190630GS	1	VALVE, Seat, Plastic
62	190581GS	1	CAP
68	190582GS	1	BALL, 7mm Stainless Steel
69	190584GS	1	O-RING
76	21783GS	1	THERMO RELIEF
A	~NSP	0	ASSEMBLY, CASE, PISTON
B	190632GS	0	KIT, WATER INLET,ALUM -Service kit includes all parts shown within the box.
4	-----	1	O-RING
8	-----	1	WASHER
20	-----	1	GARDEN HOSE w/ FINGER GRIP
21	-----	1	EXTENSION, INLET
22	-----	1	WASHER w/ FILTER
C	190634GS	0	KIT, OUTLET, ALUM -Service kit includes all parts shown within the box.
5	-----	1	OUTLET EXTENSION
6	-----	1	O-RING
E	190591GS	0	KIT,CHECK VALVES -Service kit includes all parts shown within the box.
24	-----	3	O-RING
25	-----	3	O-RING
26	-----	6	ASSY.,Valve Group
27	-----	4	O-RING
44	-----	4	SCREW
74	-----	5	SCREW
F	190592GS	0	KIT, INLET CHECK -Service kit includes all parts shown within the box.
37	-----	1	VALVE, Non-Return
38	-----	1	SPRING
39	-----	1	INJECTION NOZZLE
40	-----	1	O-RING
41	-----	1	O-RING
42	-----	1	INJECTION NIPPLE
43	-----	1	O-RING
G	190593GS	0	KIT, CHEMICAL INJECTION -Service kit includes all parts shown within the box.
31	-----	1	SPRING
32	-----	1	BALL
33	-----	1	O-RING
34	-----	1	CONNECTION, Chemical Inlet
35	-----	1	O-RING
36	-----	1	SCREW, Fitting
H	190628GS	0	KIT, UNLOADER STEM -Service kit includes all parts shown within the box.
48	-----	1	BACK RING
49	-----	1	O-RING

Pump

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 1694-0



Pump

REF NO	PART NO	QTY	DESCRIPTION
50	-----	1	VALVE, By Pass, Brass
51	-----	1	PISTON
52	-----	1	SPRING, Easy Start
53	-----	1	PISTON, Body
54	-----	1	RING, Back
55	-----	1	SPACER
56	-----	1	SPRING, Regulation Press
57	-----	1	NUT, Regulation Press
58	-----	1	NUT
59	-----	1	O-RING
60	-----	1	O-RING
61	-----	1	O-RING
J	189971GS	0	KIT, CHEMICAL HOSE -Service kit includes all parts shown within the box.
78	-----	1	O-RING
79	-----	1	TUBE, Inlet Support
80	-----	1	TUBE, Chemical
81	-----	1	FILTER
K	190636GS	0	KIT, SEAL SET -Service kit includes all parts shown within the box.
18	-----	3	O-RING
61	-----	1	O-RING
63	-----	3	SEAL
64	-----	3	PILOT SPACER, Brass
65	-----	3	O-RING
67	-----	3	SEAL, H.P.
74	-----	5	SCREW
L	190637GS	0	KIT, HEAD ALUM -Service kit includes all parts shown within the box.
44	-----	4	SCREW
74	-----	5	SCREW
75	-----	1	HEAD, Pump

Hardware Identification & Torque Specifications

Torque Specification Chart								
FOR STANDARD METRIC MACHINE HARDWARE (Tolerance ± 20%)								
Property Class	5.6		8.8		10.9		12.9	
	Class 5.6		Class 8.8		Class 10.9		Class 12.9	
Size Of Hardware	in/lbs	Nm.	in/lbs	Nm.	in/lbs	Nm.	in/lbs	Nm.
	ft/lbs		ft/lbs		ft/lbs		ft/lbs	
M3	5.88	.56	13.44	1.28	19.2	1.80	22.92	2.15
M4	13.44	1.28	30.72	2.90	43.44	4.10	52.56	4.95
M5	26.4	2.50	60.96	5.75	5.97	8.10	7.15	9.7
M6	44.64	4.3	7.3	9.9	10.3	14	12.1	16.5
M7	5.2	7.1	12.1	16.5	16.9	23	19.9	27
M8	7.7	10.5	17.7	24	25	34	29	40
M10	15	21	35	48	50	67	59	81
M12	26	36	61	83	86.2	117	103	140
M14	42	58	101	132	136	185	162	220
M16	64	88	147	200	210	285	250	340
M18	89	121	202	275	287	390	346	470
M20	126	171	290	390	405	550	486	660
M22	169	230	390	530	559	745	656	890
M24	217	295	497	375	708	960	840	1140
M27	320	435	733	995	1032	1400	1239	1680
M30	435	590	995	1350	1401	1900	1681	2280
M33	590	800	1349	1830	1902	2580	2278	3090
M36	759	1030	1740	2360	2441	3310	2935	3980
M39	988	1340	2249	3050	3163	4290	3798	5150

Torque Specification Chart						
FOR STANDARD MACHINE HARDWARE (Tolerance ± 20%)						
Hardware Grade	No Marks		SAE Grade 5		SAE Grade 8	
	SAE Grade 2		SAE Grade 5		SAE Grade 8	
Size Of Hardware	in/lbs	Nm.	in/lbs	Nm.	in/lbs	Nm.
	ft/lbs		ft/lbs		ft/lbs	
8-32	19	2.1	30	3.4	41	4.6
8-36	20	2.3	31	3.5	43	4.9
10-24	27	3.1	43	4.9	60	6.8
10-32	31	3.5	49	5.5	68	7.7
1/4-20	66	7.6	8	10.9	12	16.3
1/4-28	76	8.6	10	13.6	14	19.0
5/16-18	11	15.0	17	23.1	25	34.0
5/16-24	12	16.3	19	25.8	29	34.0
3/8-16	20	27.2	30	40.8	45	61.2
3/8-24	23	31.3	35	47.6	50	68.0
7/16-14	30	40.8	50	68.0	70	95.2
7/16-20	35	47.6	55	74.8	80	108.8
1/2-13	50	68.0	75	102.0	110	149.6
1/2-20	55	74.8	90	122.4	120	163.2
9/16-12	65	88.4	110	149.6	150	204.0
9/16-18	75	102.0	120	163.2	170	231.2
5/8-11	90	122.4	150	204.0	220	299.2
5/8-18	100	136	180	244.8	240	326.4
3/4-10	160	217.6	260	353.6	386	525.0
3/4-16	180	244.8	300	408.0	420	571.2
7/8-9	140	190.4	400	544.0	600	816.0
7/8-14	155	210.8	440	598.4	660	897.6
1-8	220	299.2	580	788.8	900	1,244.0
1-12	240	326.4	640	870.4	1,000	1,360.0

The guides and ruler furnished below are designed to help you select the appropriate hardware.



Nut, M8

Thread Diameter (mm)

Inside Diameter (in) Threads per inch

Nut, 1/2-16



Screw, M8- 1.25 x 25

Thread Diameter (mm) Distance between threads (mm) Body Length (mm)

Body Diameter Threads per inch Body Length (in)

Screw, 1/2- 16 x 2



Standard Hardware Sizing

When a washer or nut is identified as 1/2" (M8), this is the *Nominal size*, meaning the *inside diameter* is 1/2 inch (8mm metric thread diameter); if a second number is present it represents the *threads per inch* (distance between threads).

When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw, 2 inches (50mm).

NOTES

- These torque values are to be used for all hardware excluding: locknuts, self-tapping screws, thread forming screws, sheet metal screws and socket head setscrews.
- Recommended seating torque values for locknuts:
 - for prevailing torque locknuts - use 65% of grade 5 torques.
 - for flange whizlock nuts and screws - use 135% of grade 5 torques.
- Unless otherwise noted on assembly drawings, all torque values must meet this specification.

Common Hardware Types

Hex Head Capscrew



Washer



Carriage Bolt



Hex Nut

Wrench & Fastener Size Guide

1/4" Bolt or Nut Wrench—7/16"	5/16" Bolt or Nut Wrench—1/2"	3/8" Bolt or Nut Wrench—9/16"	7/16" Bolt or Nut Wrench (Bolt)—5/8" Wrench (Nut)—11/16"	1/2" Bolt or Nut Wrench—3/4"
M6 Bolt or Nut Wrench—10mm	M8 Bolt or Nut Wrench—13mm	M10 Bolt or Nut Wrench—17mm	M12 Bolt or Nut Wrench—19mm	M14 Bolt or Nut Wrench—22mm

