



Parts Manual

Mfg. No: 020416-2
3,000 PSI Troy-Bilt

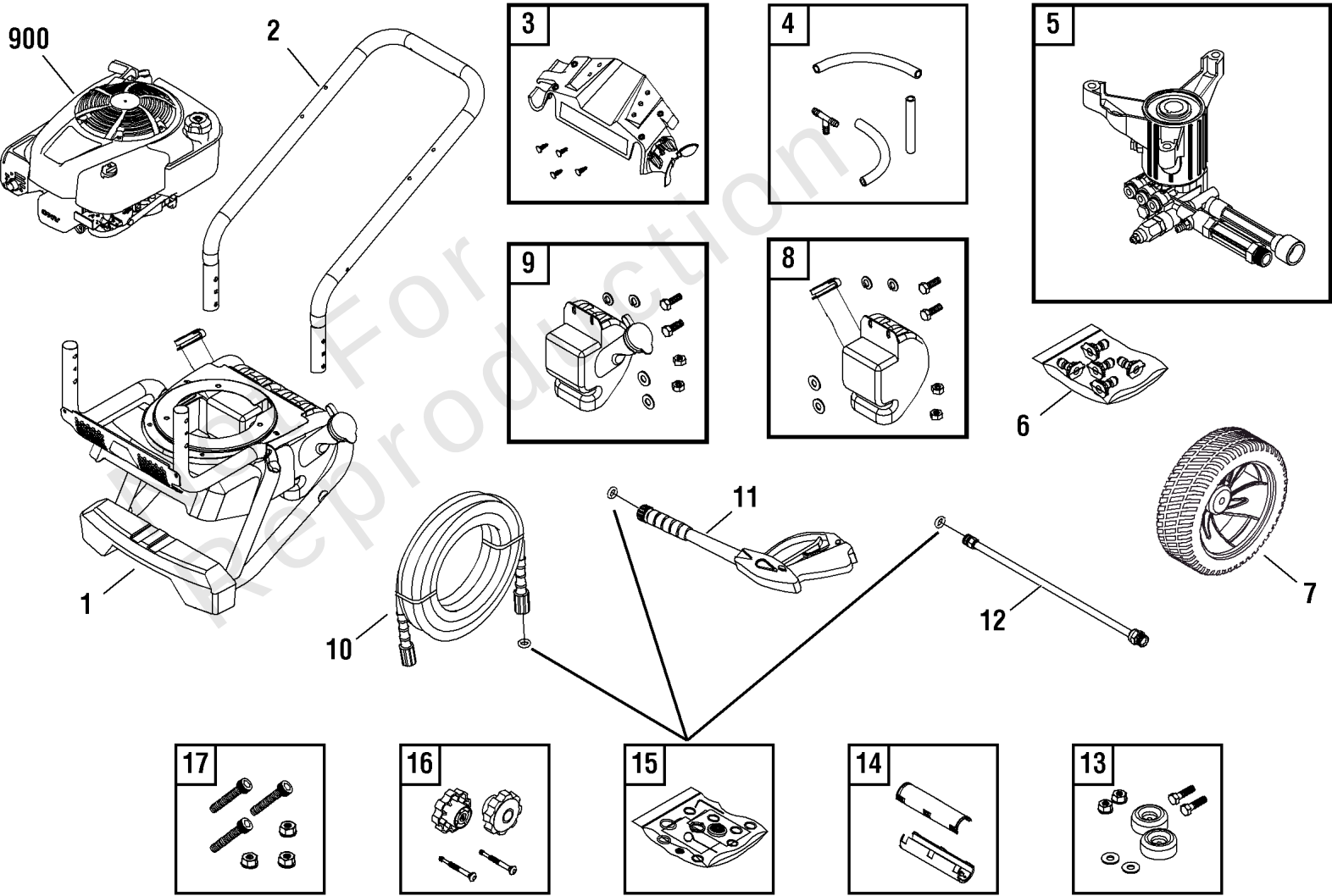
Model Components	Page
Main Unit (313851).....	4
Pump (316934).....	6
Torque Specification Chart.....	8

Not For
Reproduction

Main Unit (313851)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 020416-2



Main Unit (313851)

REF NO	PART NO	QTY	DESCRIPTION
1	312100GS		BASE
2	310628BWGS		HANDLE
3	310857GS		BILLBOARD
--	195964GS		KIT, Tree Clips
4	208728GS		HOSE, Chemical
5	317991GS		PUMP
6	314076GS		KIT, QC Nozzles
--	195983QGS		NOZZLE, QC Green
--	195983RGS		NOZZLE, QC White
--	195983AAGS		NOZZLE-QC RED
--	195983APGS		NOZZLE, QC Cyan
--	195983AQGS		NOZZLE, QC Magenta
7	202477GS		WHEEL
8	310821GS		TANK, Chemical
--	310806GS		CAP, Chemical Tank
--	310333GS		KIT, Fuel Valve
9	310820GS		TANK, Chemical
--	310805GS		CAP, Chemical Tank
--	310333GS		KIT, Fuel Valve
10	311528GS		HOSE
11	209094GS		GUN
12	207784GS		EXTENSION, QC
13	192310GS		MOUNT, Vibration
14	311969GS		GRIP
15	196002GS		KIT, O-Ring
16	312099GS		KIT, Hardware, Handle
17	203526GS		KIT, Hardware, Pump Mounting
900	-----		* ENGINE
--	313606GS		MANUAL, Operator's -(Not Illustrated)
--	199272GS		OIL BOTTLE -(Not Illustrated)
--	310983GS		DECAL, Unit -(Not Illustrated)
--	310865GS		DECAL, Shroud -(Not Illustrated)
--	23139GS		KEY -(Not Illustrated)
--	314957GS		AXLE -(Not Illustrated)
--	194256GS		TAG, Warning -(Not Illustrated)
--	315543GS		PUSHNUT -(Not Illustrated)
--	6039		PUMP SAVER -(Optional Accessory)

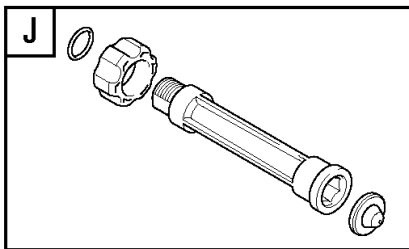
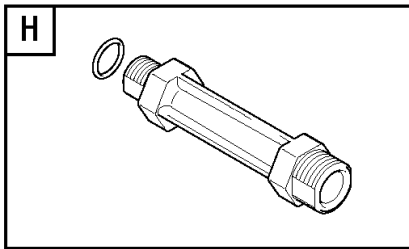
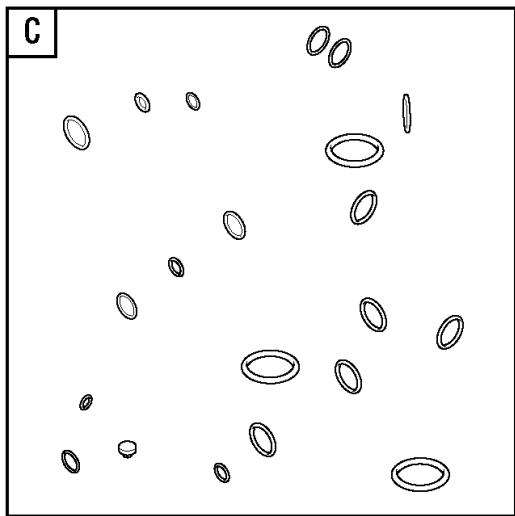
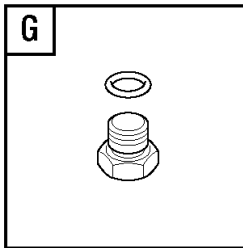
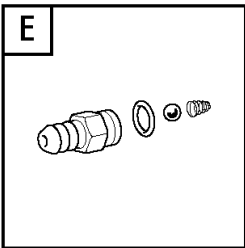
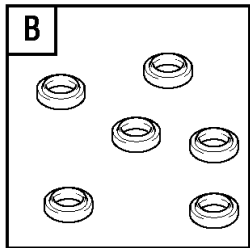
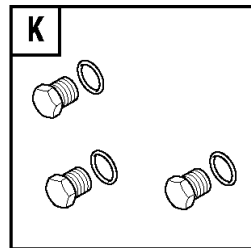
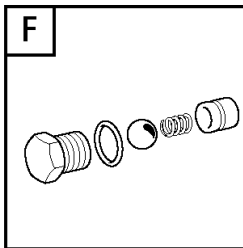
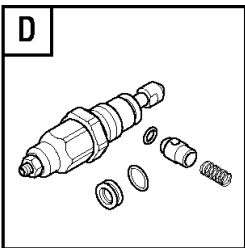
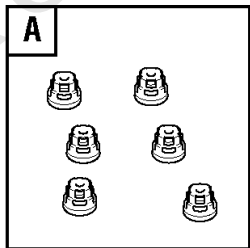
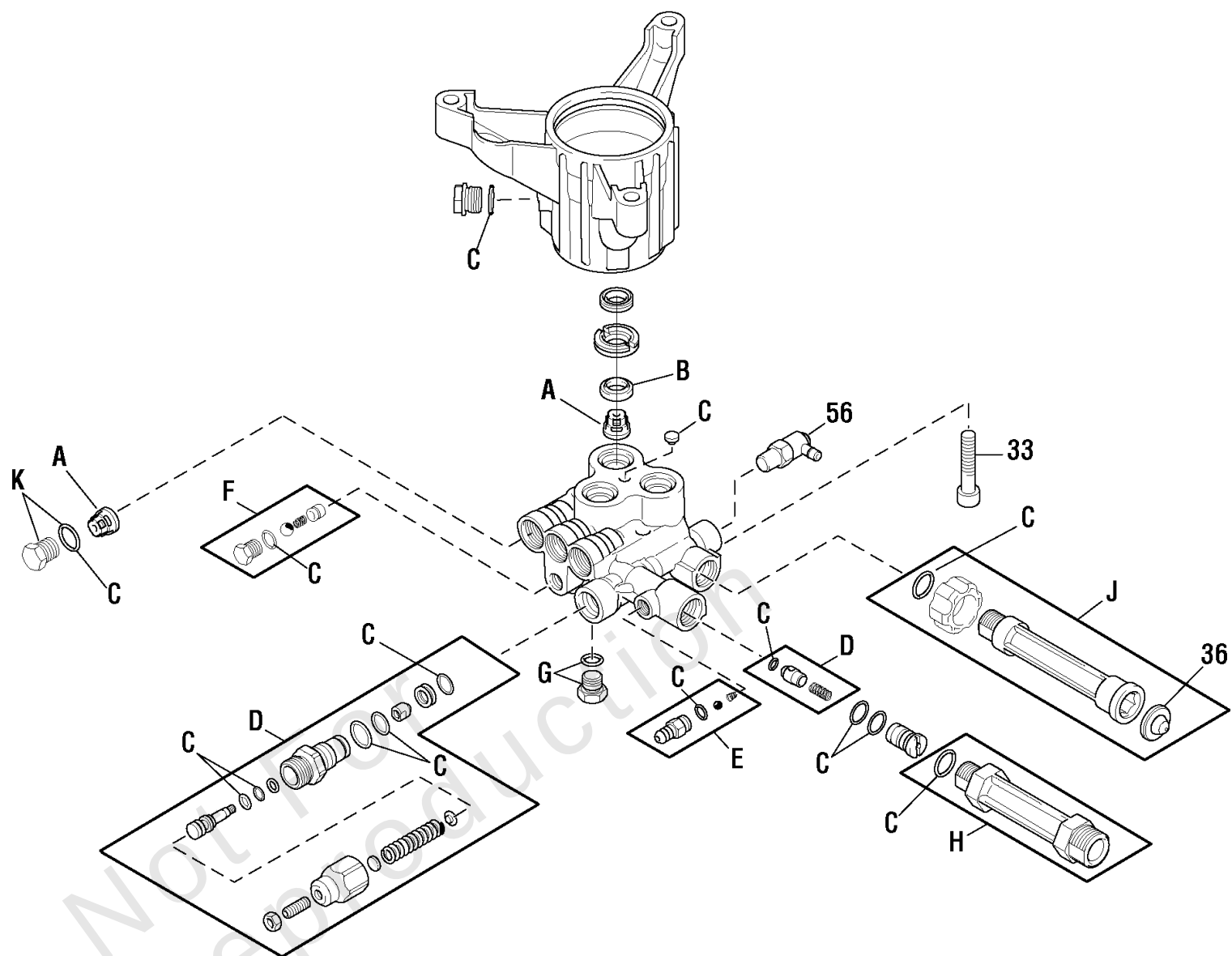
Footnotes:

*Contact Engine Manufacturer for parts and service.

Pump (316934)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 020416-2



Pump (316934)

REF NO	PART NO	QTY	DESCRIPTION
33	204087GS		SCREW
36	B2384GS		FILTER, Garden Hose
56	208673GS		VALVE, Thermal Relief
A	204082GS		* KIT, Check Valve
B	204084GS		* KIT, Water Seal
C	317789GS		* KIT, O-Ring
D	706610		* KIT, Unloader
E	317787GS		* KIT, Chemical Injection
F	317788GS		* KIT, Easy Start
G	200350GS		* SCREW, Grub
H	201497GS		* FITTING
J	201496GS		* KIT, Water Inlet
K	317056GS		* KIT, Plug
--	6039		PUMP SAVER -(Optional Accessory)

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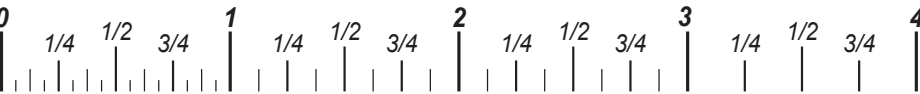
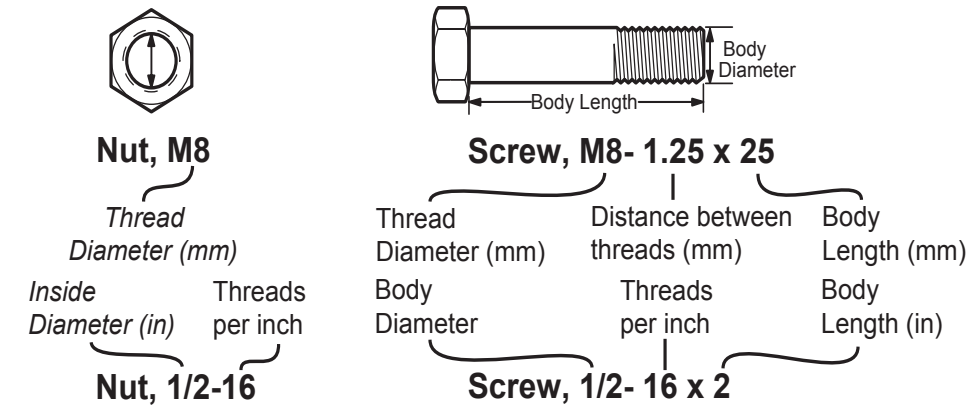
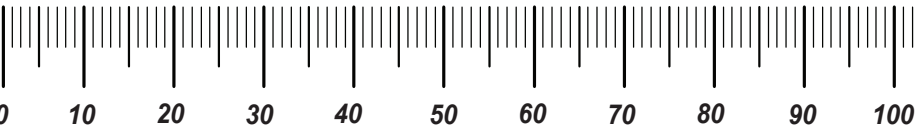
Footnotes:

* Service Kit includes all parts shown in box.

Hardware Identification & Torque Specifications

Torque Specification Chart								
FOR STANDARD METRIC MACHINE HARDWARE (Tolerance ± 20%)								
Property Class	 Class 5.6		 Class 8.8		 Class 10.9		 Class 12.9	
Size Of Hardware	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.
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

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



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).

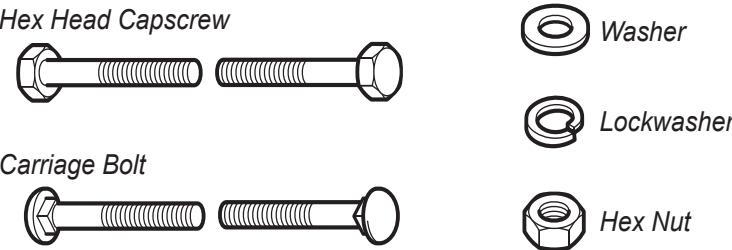
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

Torque Specification Chart						
FOR STANDARD MACHINE HARDWARE (Tolerance ± 20%)						
Hardware Grade	 SAE Grade 2		 SAE Grade 5		 SAE Grade 8	
Size Of Hardware	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.
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

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



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

