



Parts Manual

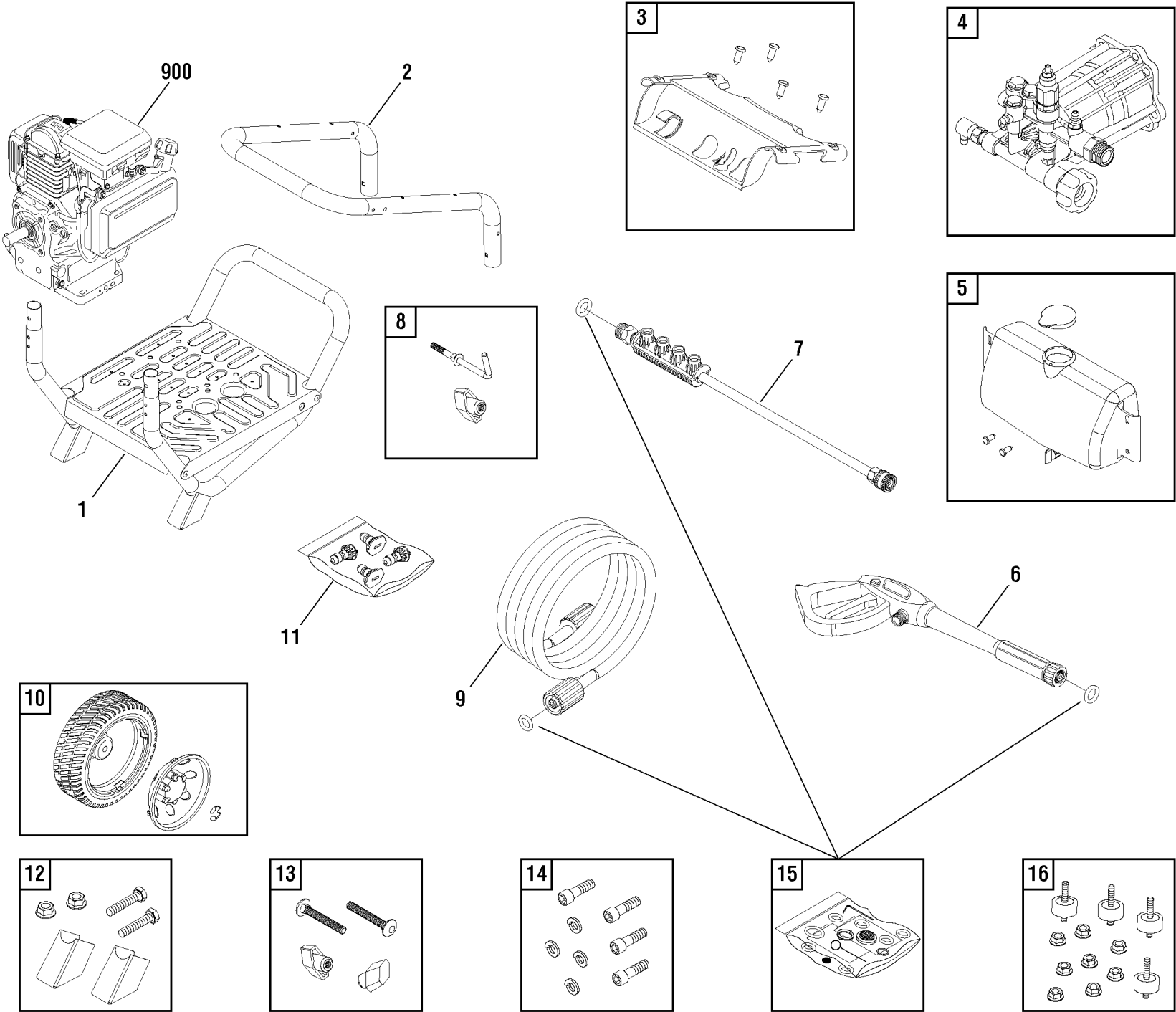
Mfg. No: 020649-00
3,100 PSI PowerBoss

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Main Unit (80017859)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 020649-00



Main Unit (80017859)

REF NO	PART NO	QTY	DESCRIPTION
1	313788GS		BASE
2	201499ZGS		HANDLE
3	709519		BILLBOARD
--	B1797GS		CLIP
4	709521		PUMP
5	205369GS		TANK-CHEMICAL
--	B3222EGS		CAP-CHEMICAL TANK
--	B1797GS		CLIPS
--	310333GS		KIT-VALVE
6	708807		GUN
7	207796GS		EXTENSION-QC
8	194264GS		HOOK
9	708962		HOSE
10	209891GS		KIT-WHEEL
--	209604GS		HUBCAP
--	704293		E-RING
11	709520		KIT-QC NOZZLES
--	198841GS		NOZZLE-QC BLACK
--	195983AAGS		NOZZLE-QC RED
--	195983TGS		NOZZLE-QC YELLOW
--	707480		NOZZLE-QC WHITE
12	209884GS		MOUNT-VIBRATION
13	B2203GS		KIT-HARDWARE HANDLE
14	192131GS		KIT-HARDWARE PUMP MOUNTING
15	705001		KIT-O-RING
16	192134GS		KIT-VIBRATION MOUNT
900	-----		** ENGINE
--	319068GS		OIL -(Not Illustrated)
--	23139DGS		KEY -(Not Illustrated)
--	201314GS		AXLE -(Not Illustrated)
--	705076		HOSE-CHEMICAL -(Not Illustrated)
--	705851		DECAL-Warning Spark -(Not Illustrated)
--	707165		TAG-WARNING -(Not Illustrated)
--	6039		PUMP SAVER -(Optional Accessory)

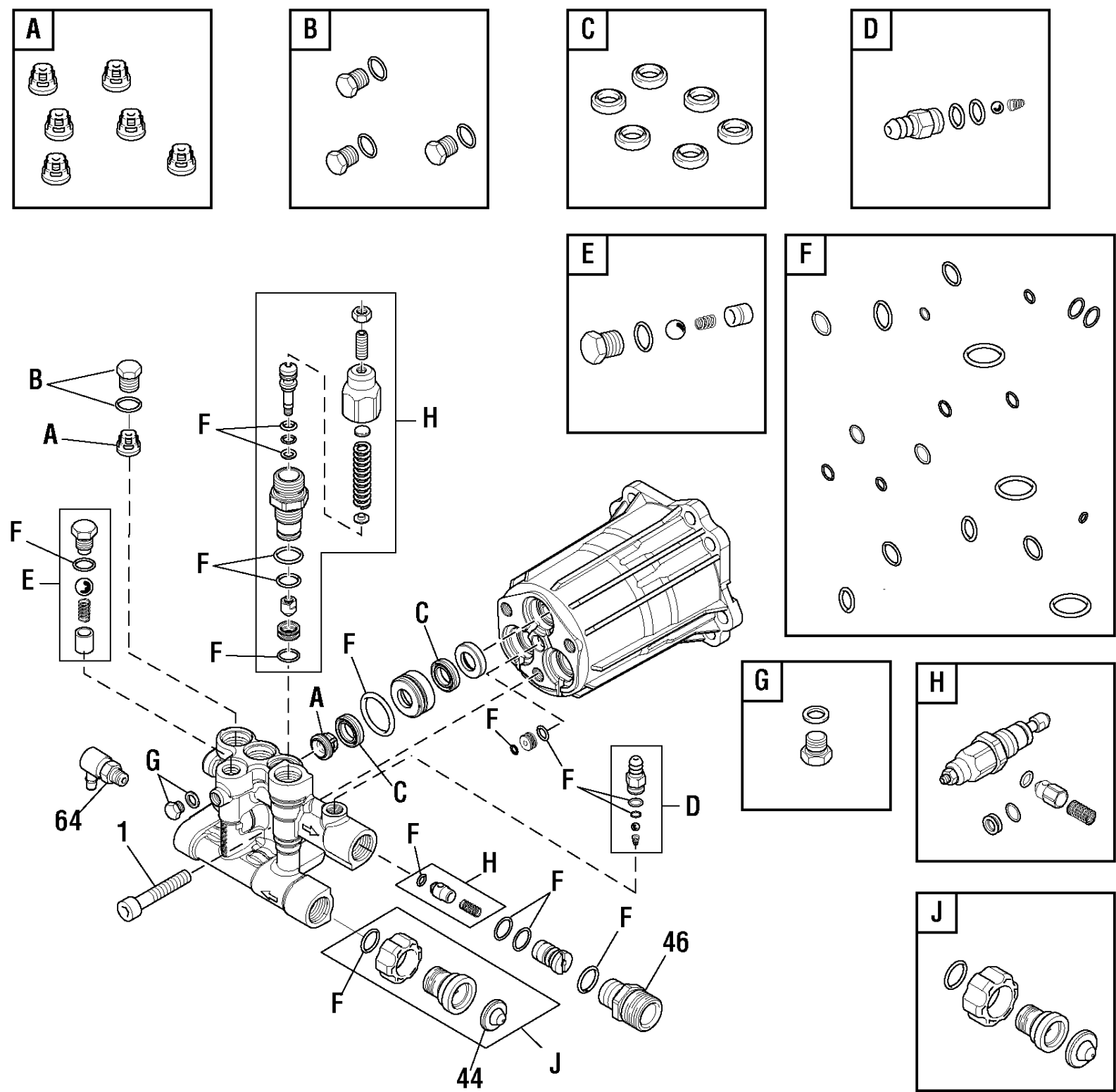
Footnotes:

** Contact Engine Manufacturer for parts and service.

Pump (80017740)

Note: Unless noted otherwise, use the standard torque specifications

Mfg. No: 020649-00



Pump (80017740)

REF NO	PART NO	QTY	DESCRIPTION
1	204087GS	3	SCREW
44	B2384GS	1	FILTER, Garden Hose
46	204083GS	1	FITTING, Outlet
64	208673GS	1	VALVE, Thermal Relief
A	317897GS	1	* KIT, Check Valve
B	706780	1	* KIT-PLUG
C	204084GS	1	* KIT, Water Seals
D	317787GS	1	*KIT, Chemical Injector
E	317788GS	1	*KIT, Easy Start
F	709523	1	KIT-O-RING
G	200350GS	1	* KIT, Grub Screw & Washer
H	706610	1	* KIT, Unloader
J	204085GS	1	* KIT, Water Inlet
--	6039		PUMP Saver -(Optional Accessory)
--	6059		PERFECT MIX MULTI-PURPOSE WASH -(Optional Accessory)
--	6160		Project Pro® PerfectMix Concrete, Brick, and Tile Cleaner -(Optional Accessory)
--	6159		Project Pro® PerfectMix Multi-Purpose and Vehicle Cleaner -(Optional Accessory)

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).

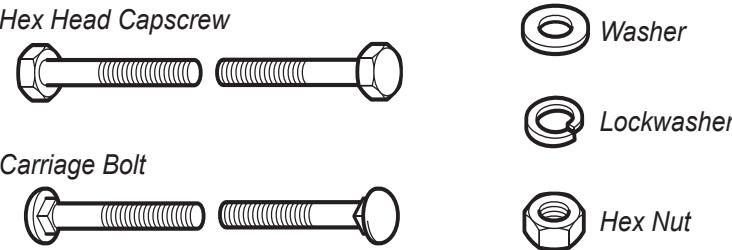
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

