



Parts Manual

Mfg. No: 030471-01
8,000 Watt Briggs & Stratton

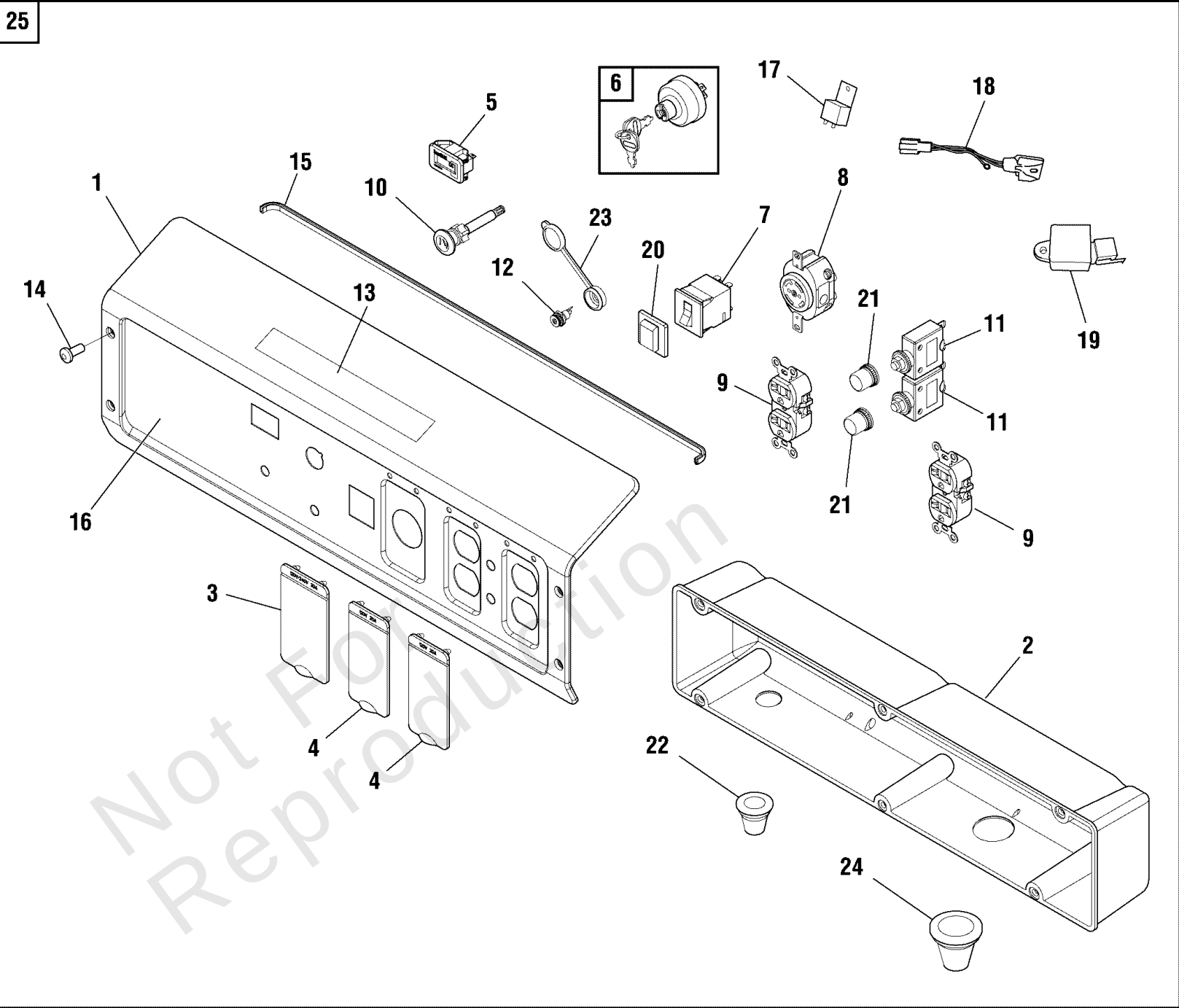
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Not For
Reproduction

Control Panel (311832_7kw)

Note: Unless noted otherwise, use the standard torque specifications

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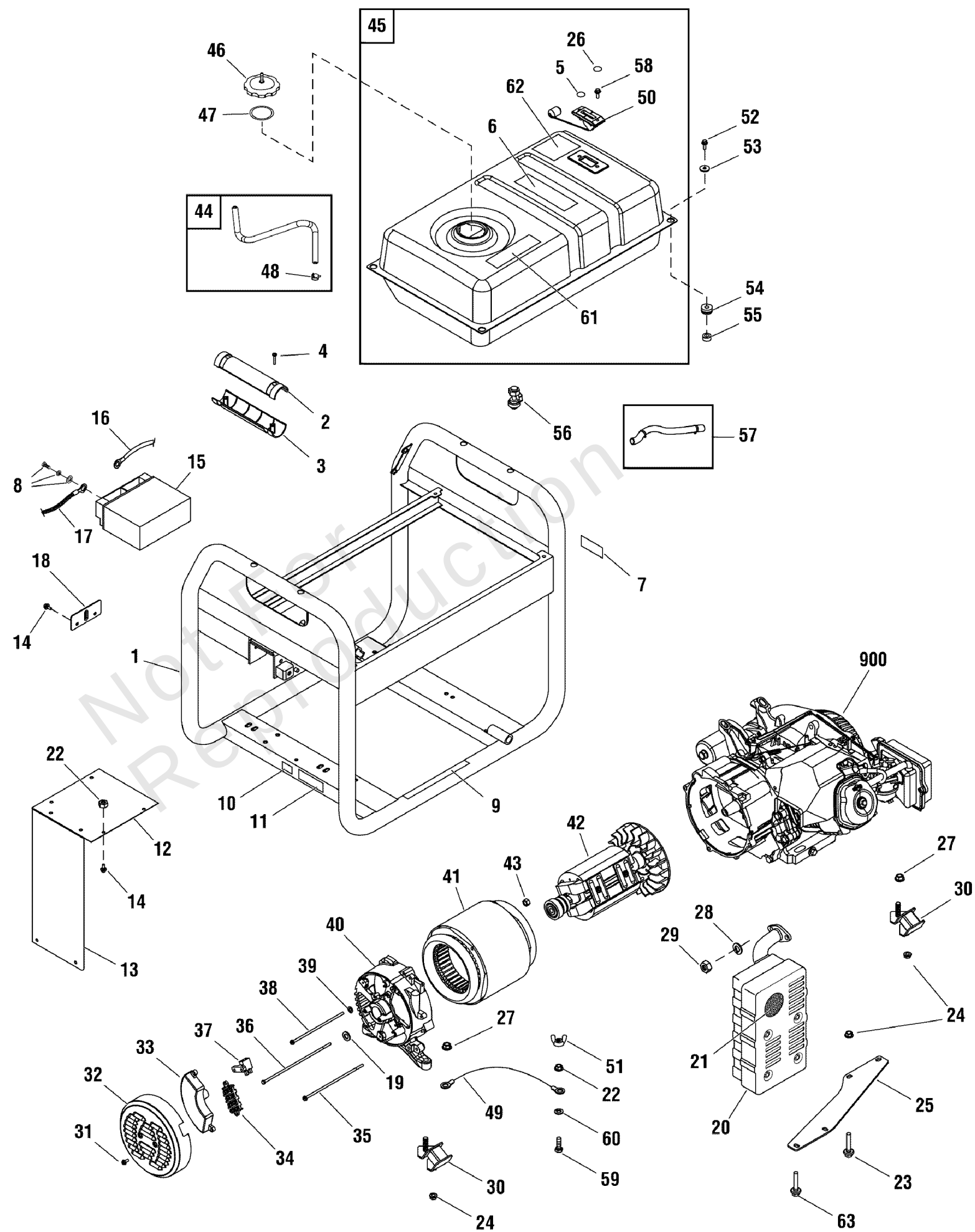
Control Panel (311832_7kw)

REF NO	PART NO	QTY	DESCRIPTION
1	312001GS		PANEL-CONTROL
2	312002GS		BOX-CONTROL PANEL
3	312030GS		COVER-OUTLET
4	312031GS		COVER-OUTLET
5	198245GS		METER, Hour Digital
6	692318		SWITCH, Key
--	691959		SET, Key
7	202033GS		Breaker, Circuit, 30A, 2P
8	43437GS		OUTLET, 120/240V Locking, 30A
9	68759GS		OUTLET, 120V, 20Amp, Duplex
10	312034GS		CABLE-CHOKE
11	317605GS		BREAKER-CIRCUIT, 20A
12	312004GS		JACK-COAXIAL
13	311565GS		DECAL
14	703804		SCREW
15	312033GS		TRIM-EDGE
16	313233GS		DECAL
17	-----		RELAY -(No Longer Available. Order Item Ref. 25)
18	-----		RECTIFIER-BRIDGE -(No Longer Available. Order Item Ref. 25)
19	-----		RECTIFIER -(No Longer Available. Order Item Ref. 25)
20	191481GS		BOOT, Breaker Circuit
21	84198GS		CAP, Breaker, Circuit
22	319530GS		GROMMET
23	312687GS		BOOT-RUBBER JACK
24	319529GS		GROMMET
25	706429		ASSY-CONTROL PANEL

Main Unit (316446)

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Main Unit (316446)

REF NO	PART NO	QTY	DESCRIPTION
1	312007GS		CRADLE
2	312008GS		GRIP, Handle
3	312009GS		GRIP, Handle
4	75477GS		SCREW
5	313461GS		DECAL
6	194984GS		DECAL
7	197798GS		DECAL
8	315546GS		KIT, Hardware, Battery Terminal
9	200310GS		DECAL
10	B4986GS		DECAL
11	200311GS		DECAL
12	312020GS		HEATSHIELD
13	312019GS		HEATSHIELD
14	209775GS		BOLT
15	193043GS		BATTERY
16	312014GS		CABLE-BTTRY, RED
17	312026GS		CABLE-BTTRY, BLACK
18	311983GS		PLATE-BATTERY
19	312045GS		WASHER
20	192569GS		MUFFLER
21	83083GS		SCREEN
22	197861GS		NUT
23	311987GS		SCREW
24	67989GS		NUT
25	311985GS		SUPPORT-MUFFLER
26	313462GS		DECAL
27	193747GS		NUT
28	22129GS		WASHER
29	45771GS		NUT
30	312012GS		MOUNT, Vibration
31	207824GS		SCREW
32	209428GS		END COVER
33	312038GS		VOLTAGE REGULATOR
34	312041GS		TERMINAL BLOCK
35	312638GS		BOLT
36	312639GS		BOLT
37	209441GS		BRUSH ASSEMBLY
38	312640GS		BOLT
39	49226GS		WASHER
40	207838GS		CARRIER-BEARING
41	312032GS		STATOR
42	312029GS		ROTOR
43	207878GS		NUT
44	315017GS		HOSE
45	316602GS		TANK, Fuel
46	314950GS		CAP, Fuel
47	209939GS		SEAL
48	314955GS		CLAMP

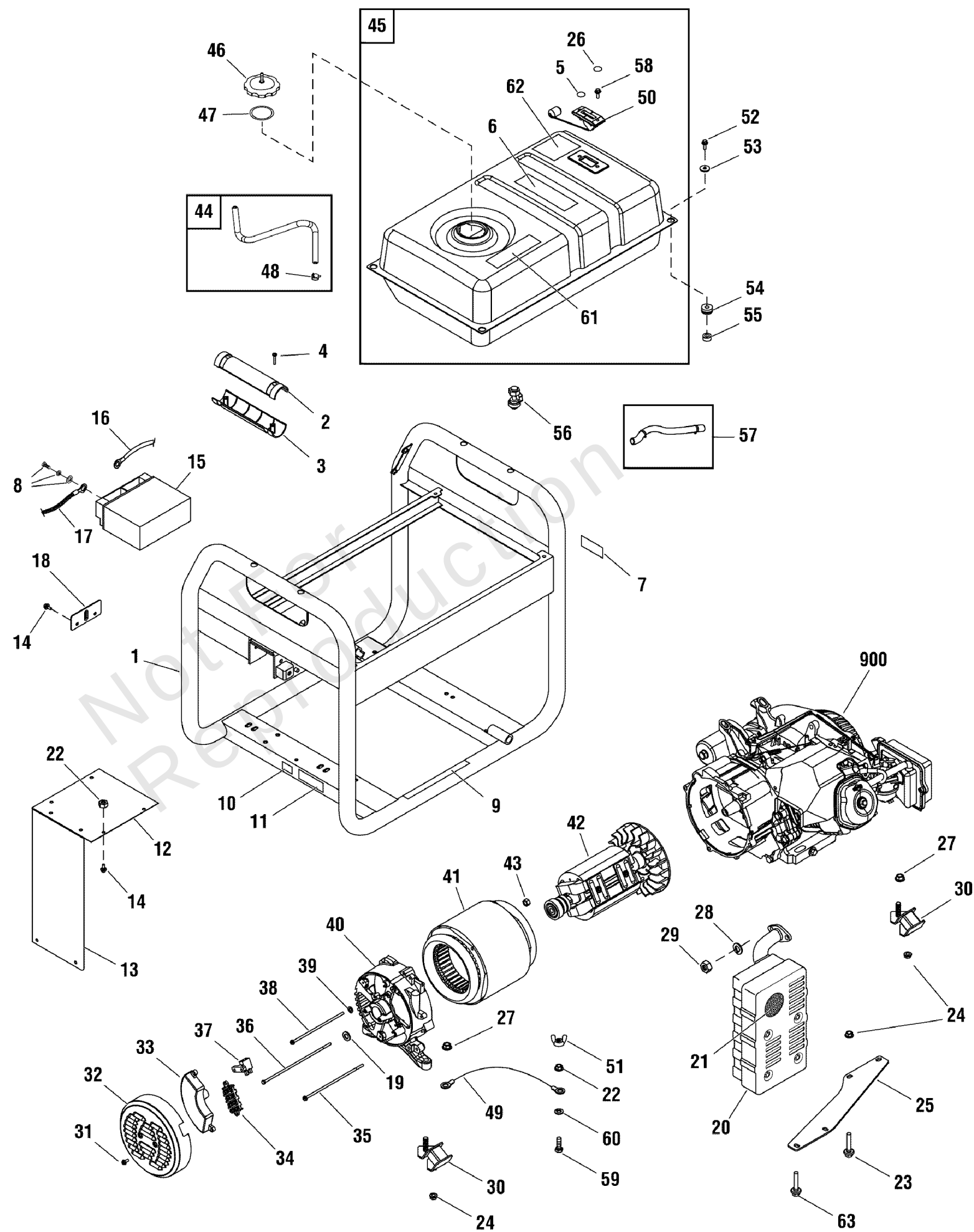
Footnotes:

** Contact Engine Manufacturer

Main Unit (316446)

Note: Unless noted otherwise, use the standard torque specifications

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Main Unit (316446)

REF NO	PART NO	QTY	DESCRIPTION
49	312040GS		WIRE
50	311992GS		GAUGE, Fuel
51	87680GS		NUT
52	209421GS		BOLT
53	312005GS		WASHER
54	312006GS		GROMMET
55	312010GS		SPACER
56	209417GS		VALVE-FUEL
57	791745		LINE, Fuel -(Cut to Fit)
58	197896GS		SCREW
59	47411GS		SCREW
60	22097GS		WASHER, Lock, Split, 1/4"
61	312728GS		DECAL
62	202997GS		DECAL
63	66476GS		SCREW
900	-----		** ENGINE
--	316742GS		FUSE -(Not Illustrated)
--	B4177GS		CHARGER-BATTERY -(Not Illustrated)

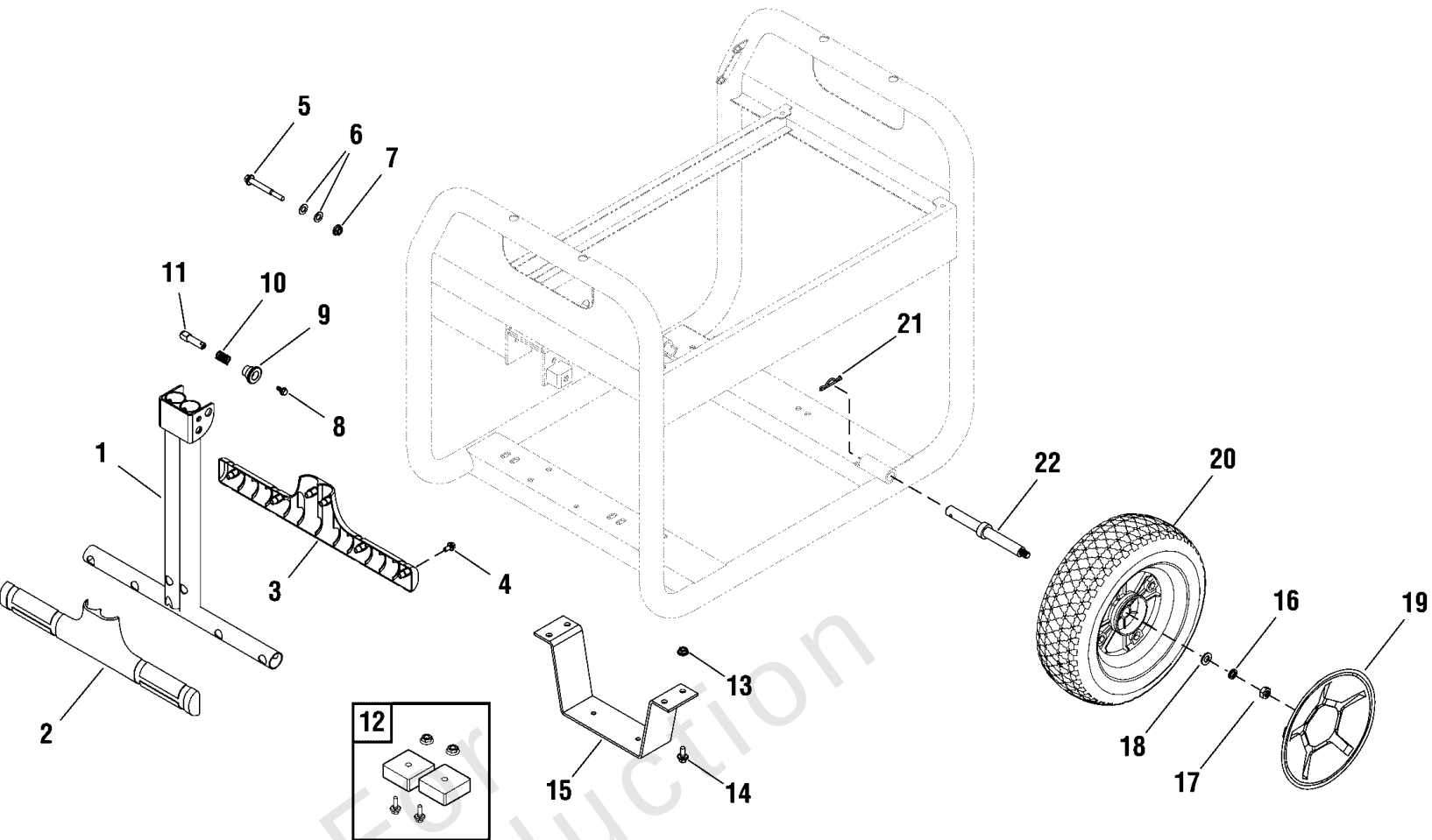
Footnotes:

** Contact Engine Manufacturer

Wheel Kit (312167)

Note: Unless noted otherwise, use the standard torque specifications

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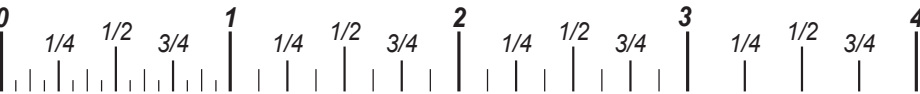
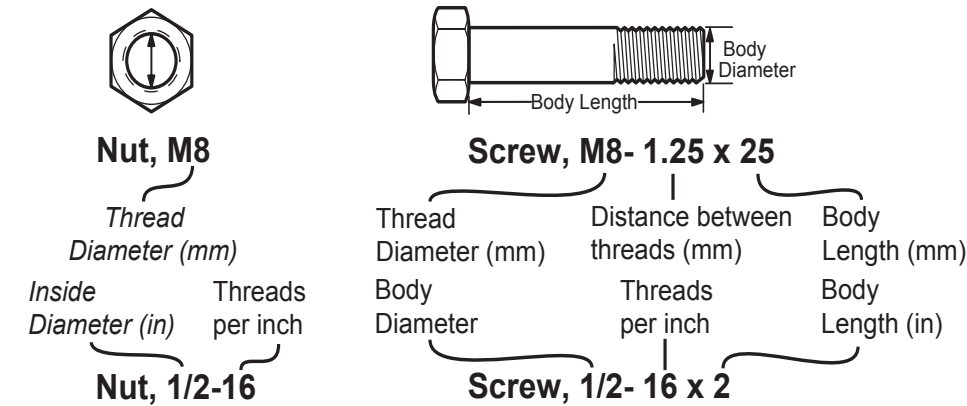
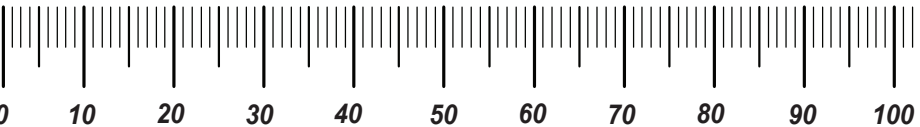
Wheel Kit (312167)

REF NO	PART NO	QTY	DESCRIPTION
1	311999GS		HANDLE
2	311998GS		GRIP-HANDLE
3	312000GS		GRIP-HANDLE
4	75477GS		SCREW-M5-0.8 x 20
5	318677GS		BOLT
6	187104GS		WASHER-NYLON M8
7	49820GS		NUT-M8-1.25 NYLOK
8	207825GS		BOLT-M5-6 x 16
9	312016GS		KNOB
10	312015GS		SPRING
11	312017GS		PIN
12	319285GS		MOUNT-VIBRATION
13	52857GS		NUT-M6 FLANGE
14	42568GS		SCREW-M8 x 16
15	311994GS		SUPPORT-LEG
16	46526GS		WASHER-M10 LOCK
17	45772GS		NUT-M10 LOCK
18	94856GS		WASHER-M10 FLAT
19	312022GS		HUBCAP
20	312021GS		WHEEL
21	5025210YP		PIN-HAIR .0915 x 1-7/8
22	312023GS		AXLE

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).

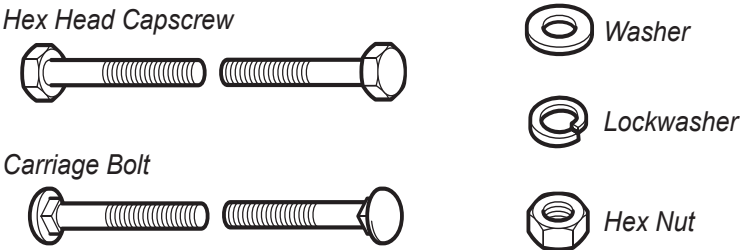
When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (*distance between threads*). The final number is the body length of the bolt or screw,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

