Illustrated Parts Manual

GM
Engine Parts
Supplement

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FIGURE 3-1. SHORT BLOCK COMPONENTS

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	**SHORT BLOCK COMPONENTS**	
		Ref	**Note: To determine the machine's engine p/n or emissions TIER level, refer to Section 1 Usage Chart.**	
1		4	Piston Ring Kit Option:	
	70003786		.02 Oversize (Engine p/n 1001141139 Only)	
	70003781		Standard	
2		4	Piston with Pin	
	70003881		.02 Oversize (Engine p/n 1001141139 Only)	
	70003883		Hi Limit (Engine p/n 1001141139 Only)	
	70003782		Standard	
3	70001574	4	Rod, Connecting (Includes Items 4)	
4	70001575	8	Bolt, Connecting Rod (2 Per Rod)	
5		4	Bearing Kit - Connecting Rod Options:	
	70001576		.001 Oversize	
	70001577		Standard	
6	Not Used			
7	70001578	8	Nut, Connecting Rod	
8	70001579	1	Bearing, Oil Pump Drive Shaft	
9	70000990	1	Gasket, Water Pump	
10	Use 70000001	1	Impeller, Water Pump (Purchase Item 15)	
11	Use 70000001	1	Bushing, Water Pump (Purchase Item 15)	
12	Use 70000001	1	Shaft, Water Pump (Purchase Item 15)	
13	70001299	1	Cap, Water Outlet	
14	70002920	1	Clamp	
15	Use 70000001	1	Water Pump Kit (Includes Item 9) (was p/n 70001318)	
16		1	Bolt, Water Pump Options:	
	70000989		Tier 1 & 2 Engines	
	70000988		Tier 3 & 4 interim	
17	Use 70000001	1	Plate, Water Pump (Purchase Item 15)	
18		1	Washer Options:	
	70002921		All Engines except p/n 1001141139 used in Models 400S/ 460SJ & 450A/460AJ Series II	
	70003886		Models 400S/460SJ & 450A/460AJ Series II - p/n 1001141139 Engine Only	
19		2	Bolt, Cam Plate Options:	
	70001580		Tier 1 & 2 Engines	
	70001587		Tier 3 & 4 interim	
20		2	Bolt, Water Pump Options:	
	70000988		Tier 1 & 2 Engines	
	70000989		Tier 3 & 4 interim	
21	70001581	1	Key, Crankshaft Balancer	
22		1	Bolt, Camshaft Gear Options:	
	70002923		All Engines except p/n 1001141139 used in Models 400S/ 460SJ & 450A/460AJ Series II	
	70003887		Models 400S/460SJ & 450A/460AJ Series II - p/n 1001141139 Engine Only	
23	70002924	1	Washer	
24	70001269	1	Gear, Camshaft	
25	70001582	1	Plate Kit, Camshaft Thrust (Includes Item 26)	

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FIGURE 3-11. FUEL SUPPLY COMPONENTS - TIER 3 & 4 INTERIM ENGINES

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	**TIER 3 & 4 INTERIM ENGINE FUEL SUPPLY COMPONENTS**	
		Ref	**Note: To determine the machine's engine p/n or emissions TIER level, refer to Section 1 Usage Chart.**	
1	70001521	8in	Loom, 1in Split	
2	70001307	1	Fitting, Elbow	
3	70002880	1	Fitting, Elbow	
4	70001522	1	Fitting, Elbow	
5	70001523	1	Clamp	
6	70001524	1	Fitting, Adapter	
7	70001308	AR	Hose	
8	70001310	1	Hose	
9	70002881	3	Isolator	
10	70002882	3	Clamp	
11	70001531	1	Fitting, Nipple	
12	70002883	1	Valve, Lock-Off	
13		1	Bracket, Mounting Options:	
	70002884		All Tier 3 & 4 Interim Engines except p/n 1001114600 used in Model 600A	
	70002952		Model 600A - 1001114600 Engine Only (Not Shown)	
14	70002885	1	Plate	
15	70002886	2	Clamp	
16	70002887	1	Regulator	
17	70002888	2	Fitting, Elbow	
18	70002889	2	Bolt	
19	70002890	3	Bolt	
20	70002891	3	Nut	
		Ref	**TIER 3 & 4 INTERIM ENGINE MIXER/PRESSURE REGULATOR COMPONENTS**	
		Ref	**Note: To determine the machine's engine p/n or emissions TIER level, refer to Section 1 Usage Chart.**	
101	70001532	2	Plug	
102	70002869	1	Regulator, Electronic Pressure	
103	70002870	1	Adapter	
104	70002871	1	Mixer (Note: No Service Breakdown Available)	
105	70002872	4	Bolt	
106		4	Stud Options:	
	70002873		All Tier 3 & 4Interim Engines except p/n 1001114600 used in Model 600A	
	70002950		Model 600A - 1001114600 Engine Only	
107	70002874	4	Nut	
108	70002949	1	Spacer (Model 600A -1001114600 Engine Only)	
		Ref	**TIER 3 & 4 INTERIM ENGINE THROTTLE BODY COMPONENTS**	
		Ref	**Note: To determine the machine's engine p/n or emissions TIER level, refer to Section 1 Usage Chart.**	
201	70000007	1	Throttle Body	

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FIGURE 3-14. MUFFLER COMPONENTS - BOOM LIFTS

ITEM #	PART NUMBER	QTY.	DESCRIPTION	REV.
		Ref	**MUFFLER COMPONENTS**	
		Ref	**Note: To determine the machine's engine p/n or emissions TIER level, refer to Section 1 Usage Chart.**	
		Ref	**Note: See Fuel Supply Components for O2 Sensors.**	
		Ref	**TIER 1 ENGINES**	
1	70000943	1	Plug	
2	7027979	1	Flange, Exhaust to Manifold	
3	7027980	1	Seal, Exhaust (Doughnut Gasket)	
4	7027981	1	Pipe, Exhaust	
5	7027983	1	Bracket, Muffler	
6	7027984	1	Flange 2.5in	
7	7027985	1	Flange 2in	
8	7027986	2	Seal 2.5in	
9	7027988	1	Band, Mounting	
10	70000173	1	Muffler, Catalyst	
11	7027987	1	Seal 2in	
12	70001693	2	Nut 1/4in-20NC	
13	70001515	4	Lockwasher 5/16in	
14	70001555	4	Nut 5/16in-18NC	
15	70001516	4	Bolt 5/16in-18NC x 3/4in Grade 5	
16	3311605	2	Nut 3/8in-16NC (Was p/n 70001558)	
17	0641610	3	Bolt 5/16in-18NC x 1-1/4in Grade 5 (Was p/n 70001559)	
18	0641612	2	Bolt 5/16in-18NC x 1-1/2in Grade 5 (Was p/n 70001560)	
19	4711600	7	Flatwasher 3/8in (Was p/n 70001561)	
20	70001694	2	Bolt 5/16in-18NC x 1-1/4in Grade 5	
		Ref	**TIER 2, 3 & 4 ENGINES**	
101	70000943	1	Plug	
102	7027979	1	Flange, Exhaust to Manifold	
103	7027980	1	Seal, Exhaust (Doughnut Gasket)	
104		1	Pipe, Exhaust Options:	
	7027981		All Models except 600A/600AJ	
	70001684		Model 600A/600AJ Only	
105	70000013	1	Muffler, Catalyst (Tier 2 Engines)	
	70002894		Muffler, Catalyst (Tier 3 & 4 Engines)	
	70002232	2	Plug, Brass (Not Shown)	
106	7027984	1	Flange 2.5in	
107	7027985	1	Flange 2in	
108	7027986	1	Seal 2.5in	
109	7027987	1	Seal 2in	
110	70001553	1	Bracket, Muffler	
111		2	Bracket, Muffler End Options:	
	70001554		All Models except 600A/600AJ	
	70001685		Model 600A/600AJ Only	
112	70001515	4	Lockwasher 5/16in	
113	70001555	4	Nut 5/16in-18NC	

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