SERVICE MANUAL

S135-155XL2 (C024)



FORM 1559945 Rev. 03/04

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SERVICE MANUAL CONTENTS

Section	SRM Number	Rev Date
FRAME	0100 SRM 0449	12/03
GM V6-4.3L ENGINE WITH FUEL INJECTION	0600 SRM 0590	11/03
PERKINS DIESEL ENGINE 1104 (RE)	0600 SRM 1070	12/03
COOLING SYSTEM	0700 SRM 0626	11/01
ELECTRONIC CONTROLLED LPG/GASOLINE FUEL SYSTEM GM 3.0L	0900 SRM 1088	03/04
AND 4.3L EPA COMPLIANT ENGINES	0900 SRM 1088	03/04
TWO-SPEED PS TRANS-DESCR / OPER	1300 SRM 0324	10/03
TWO-SPEED PS TRANSMISSION-REPAIR	1300 SRM 0325	10/03
DIFFERENTIAL	1400 SRM 0046	11/03
DRIVE AXLE	1400 SRM 0450	09/03
STEERING CONTROL UNIT	1600 SRM 0054	10/03
STEERING AXLE	1600 SRM 0451	09/03
BRAKE SYSTEM	1800 SRM 0452	02/04
HYDRAULIC GEAR PUMPS	1900 SRM 0097	10/03
HYDRAULIC PUMP DRIVE ASSEMBLY	1900 SRM 0339	10/03
HYDRAULIC SYSTEM	1900 SRM 0453	09/03
MAIN CONTROL VALVE	2000 SRM 0090	10/03
TILT CYLINDERS	2100 SRM 0103	10/03
ALTERNATOR	2200 SRM 0002	10/03
STARTER	2200 SRM 0106	02/01
INSTRUMENT PANEL INDICATORS / SENDERS	2200 SRM 0143	12/03
ELECTRONIC CONTROL MODULE (ECM) DIAGNOSTIC	2200 SRM 1090	01/04
TROUBLESHOOTING GM 3.0L AND 4.3L EPA COMPLIANT ENGINES	2200 SRM 1090	01/04
HIGH VOLTAGE SWITCH (HVS) IGNITION GM 4.3L EPA COMPLIANT	2200 SRM 1097	12/03
ENGINES	2200 SRM 1097	12/03
LIFT CYLINDERS	4000 SRM 0135	10/03
MASTS	4000 SRM 0329	10/03
METRIC AND INCE (SAE) FASTENERS	8000 SRM 0231	03/03
CAPACITIES and SPECIFICATIONS	8000 SRM 0454	10/03
PERIODIC MAINTENANCE	8000 SRM 0393	12/03
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PART NO. 1559945
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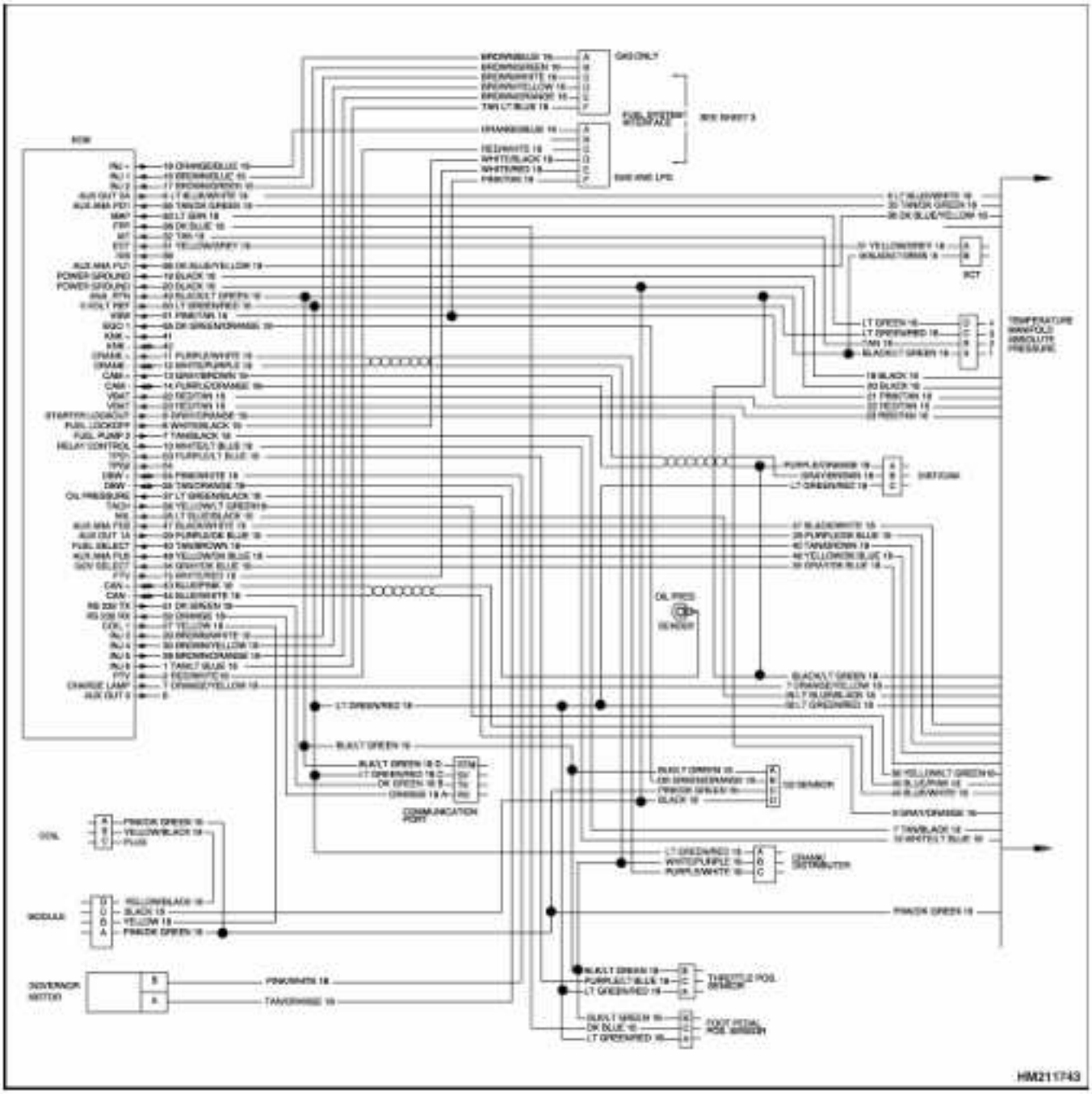


Figure 10. GM V-6 Gas and LPG Engine Electrical Schematic (C024, G006) (Sheet 1 of 4)

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PROBLEM	POSSIBLE CAUSE	PROCEDURE OR ACTION
The bearings in the engine are damaged. (Cont.)	Oil in the engine is the wrong type.	Drain and fill with correct oil.
	Oil pump is worn or damaged.	Install new oil pump.
	Connecting rod(s) and bearings have damage.	Check and repair crankshaft. Install new connecting rods and bearings.
	Camshaft and bearings have damage.	Install new camshaft and bearings.
	Passages for oil have restrictions.	Remove restrictions or overhaul engine.
	Bearings are not installed correctly.	Install new bearings or overhaul engine.

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Specifications

Table 2. Cylinder Retainer Torque Specifications and Weight Guide

Rod Diameter		Typical Outer Retainer Torque Values		Lifting Mechanism
mm	in.	N•m	lbf ft	
One-Stage Cylinders for Lift Trucks with Less than 7000 kg (15,000 lb) Capacity				
57.2	2.25	373-441	275-325	Use crane and slings with at least 500 kg (1000 lb) capacity to lift the cylinder.
63.5	2.50	203-271	150-200	
69.9	2.75	373-441	275-325	
76.2	3.00	407-475	300-350	
81.3	3.20	407-475	300-350	
88.9	3.50	475-452	350-400	
101.6	4.00	407-475	300-350	
114.3	4.50	610-678	450-500	
One-Stage Cylinders for Lift Trucks with More than 7000 kg (15,000 lb) Capacity				
108.0	4.25	Tighten retainer or packing gland nut. Oil leakage is not controlled by the torque on the retainer.		Use crane and slings with at least 1000 kg (2000 lb) capacity to lift the cylinder.
113.4	5.25			
241.3	9.50			Use crane and slings with at least 2000 kg (4000 lb) capacity to lift the cylinder.
254.0	10.00			
Two-Stage Cylinders for Lift Trucks with Less than 5000 kg (10,000 lb) Capacity				
82.6	3.25	373-509	325-375	Use crane and slings with at least 500 kg (1000 lb) capacity to lift the cylinder.
95.3	3.75	271-305	200-225	
101.6	4.00	271-339	200-250	
114.3	4.50	339-407	250-300	
122.0	5.00	407-475	300-350	
Inner retainer torque value is 122 N•m (90 lbf ft).				

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