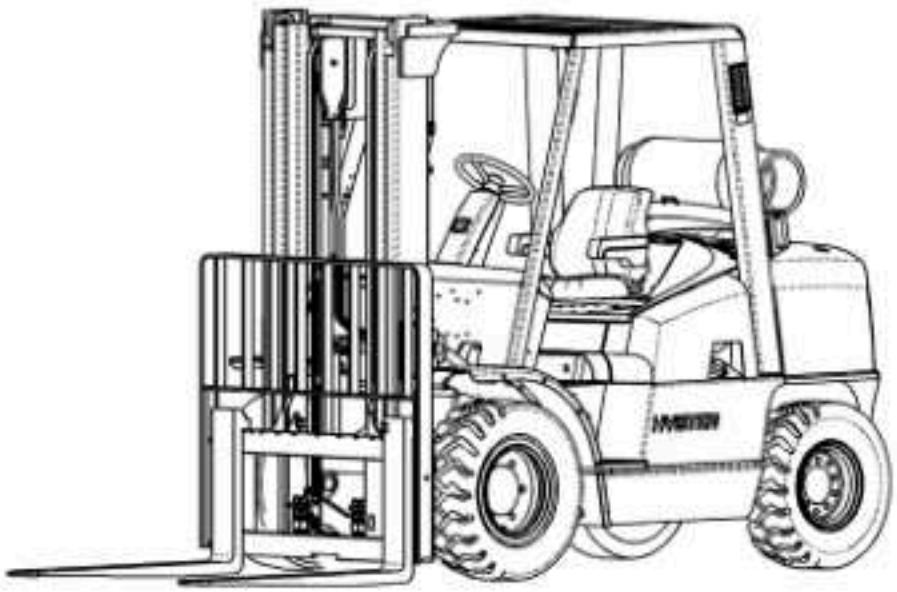
SERVICE MANUAL

S70-120XM, S120XMS (E004)



FORM 1510455 Rev. 02/04

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S70-120XM, S120XMS (E004)
SERVICE MANUAL CONTENTS

Section	SRM Number	Rev Date
FRAME	0100 SRM 0981	12/03
GM V6-4.3L ENGINE WITH FUEL INJECTION	0600 SRM 0590	11/03
PERKINS DIESEL ENGINE-1000 SERIES (AR, YG, YH)	0600 SRM 0705	09/03
COOLING SYSTEM	0700 SRM 0626	11/01
LPG FUEL SYSTEM	0900 SRM 0348	09/01
SINGLE-SPEED PS TRANSMISSION-REPAIR	1300 SRM 0397	02/04
SINGLE-SPEED PS TRANS-DESCR / OPER	1300 SRM 0399	09/03
DRIVE AXLE	1400 SRM 0984	09/03
STEERING AXLE	1600 SRM 0326	10/03
STEERING CONTROL UNIT	1600 SRM 0732	10/03
BRAKE SYSTEM	1800 SRM 0985	09/03
HYDRAULIC GEAR PUMP	1900 SRM 0097	10/03
HYDRAULIC PUMP DRIVE ASSEMBLY	1900 SRM 0339	10/03
HYDRAULIC SYSTEM	1900 SRM 0743	10/03
MAIN CONTROL VALVE	2000 SRM 0754	12/03
TILT CYLINDERS	2100 SRM 0986	09/03
ALTERNATOR	2200 SRM 0002	10/03
HIGH ENERGY IGNITION SYSTEM	2200 SRM 0107	03/02
STARTER	2200 SRM 0755	10/03
INSTRUMENT PANEL INDICATORS and SENDERS	2200 SRM 0756	11/03
MSTS-GM V6-4.3L ENGINE	2200 SRM 0765	11/01
GM V6-4.3L ENGINE CONTROL-DESCR / OPER	2200 SRM 0781	01/00
GM V6-4.3L ENGINE CONTROL-REPAIR	2200 SRM 0782	03/00
ELECTRONIC ENGINE CONTROL-DESC / OPER (MEFI-4)	2200 SRM 1016	07/02
ELECTRONIC ENGINE CONTROL-REPAIR (MEFI-4)	2200 SRM 1017	07/02
MASTS	4000 SRM 0736	10/03
LIFT CYLINDERS	4000 SRM 0741	10/03
INCH (SAE) and METRIC FASTENERS	8000 SRM 0231	03/03
PERIODIC MAINTENANCE	8000 SRM 0987	12/03
CAPACITIES and SPECIFICATIONS	8000 SRM 0988	09/03
DIAGRAMS	8000 SRM 0989	12/03

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PROBLEM	POSSIBLE CAUSE	PROCEDURE OR ACTION
Lift or tilt cylinders extend or retract when the control valve lever (spool) is in the **NEUTRAL** position.	Load check valves and spools have damage.	Repair or install new load check valve and spool.
	Cylinder seals have leaks.	Install new seals.
	Hydraulic lines have leaks.	Repair leaks. Install new parts. Remove air from system.
	Leaks between spool and bore.	Install new spool and O-ring seals.

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Specifications

Table 3. Meter and Sender Specifications

Item	Design Data
Operating Voltage	
Hourmeter (Engine Powered Equipment), All Other Meters, and Senders	12 V
Sender Terminal Threads	#10-32 UNF or #6-32 UNC
Range of Meter	
Hourmeter	0.0 to 999,999.9 Hours
Voltmeter	10 to 16 Volts
Temperature Gauge (Range Based on Requirements)	38 to 121°C (100 to 250°F) Water Temperature 38 to 182°C (100 to 360°F) Transmission Oil Temperature
Oil Pressure Gauge (Range Based on Requirements)	0 to 5.20 kPa (0 to 0.75 psi)
Fastener Data (To Fit in a Threaded Hole)	
Water Temperature Sender (Gauge)	
Body Threads	3/8-18 NPTF (GM 4.3L) 1/2-14 NPTF (Diesel)
Hex (Across Flats)	19.0 mm (0.75 in.) (GM 4.3L) 22.0 mm (0.87 in.) (Diesel)
Water Temperature Sender (ECM/ECU)	
Body Threads	3/8-18 NPTF (GM 4.3L)
Hex (Across Flats)	19.0 mm (0.75 in.) (GM 4.3L)
Oil Pressure Sender	
Fitting Threads	1/8-27 NPTF (GM 4.3L and Diesel)
Hex (Across Flats)	14.0 mm (0.55 in.) (GM 4.3L and Diesel)
Low Coolant Sender	
Body Threads	1/2-14 Dryseal
Hex (Across Flats)	23.4 mm (0.92 in.) for a 15/16 in. Wrench
Fuel Sender Plate	
Number of Holes	2 (Equally Spaced)
Hole Size	7.30 to 7.60 mm (0.287 to 0.299 in.)

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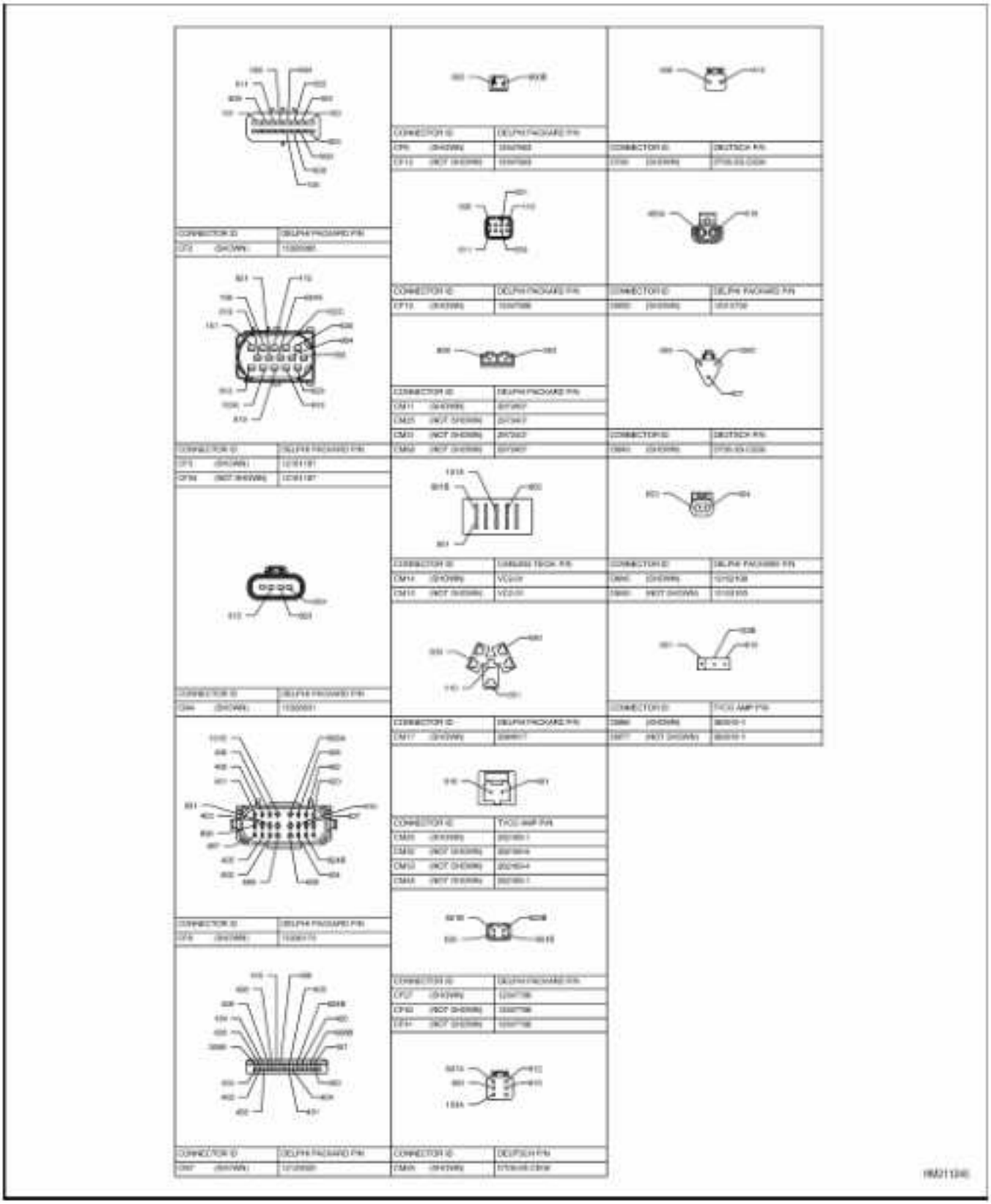


Figure 12. Wiring Diagram Diesel (REV 1) (E004) (Sheet 4 of 4)

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