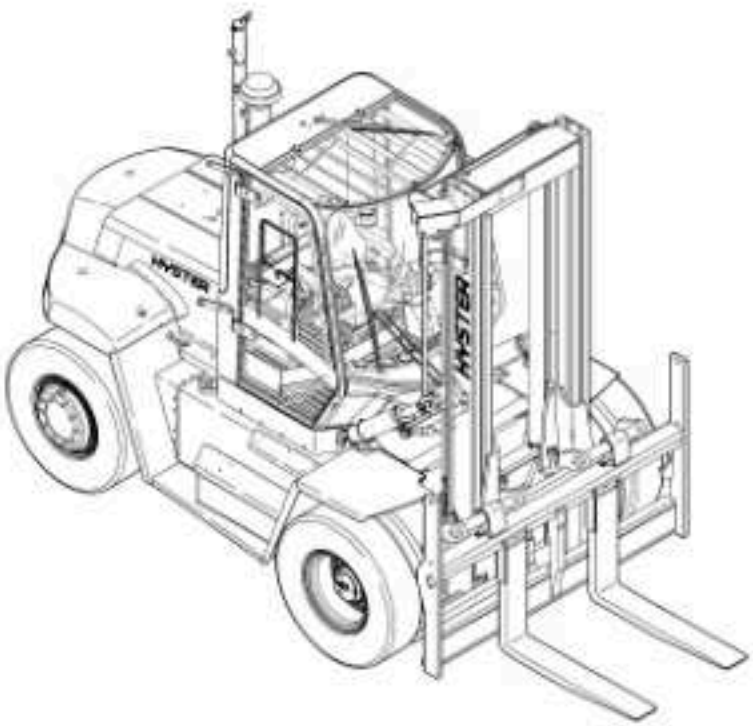
SERVICE MANUAL

H300-360HD, H360HD-EC (F019)



FORM 1556870 Rev. 02/04

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H300-360HD, H360HD-EC (F019)
SERVICE MANUAL CONTENTS

Section	SRM Number	Rev Date
FRAME	0100 SRM 0927	12/03
OPERATOR'S CAB	0100 SRM 1100	01/04
PERKINS TIER 2 DIESEL ENGINE - 1100 SERIES (VK)	0600 SRM 1068	02/04
PERKINS TIER 2 ENGINE ELECTRONIC TROUBLESHOOTING GUIDE	0600 SRM 1072	01/04
CUMMINS DIESEL ENGINE FAULT CODE GUIDE	0600 SRM 1101	01/04
COOLING SYSTEM	0700 SRM 0626	11/01
TRANSMISSION	1300 SRM 1082	01/04
DIFFERENTIAL	1400 SRM 0046	11/03
PLANETARY GEAR AXLE - WET	1400 SRM 0944	09/03
PLANETARY GEAR AXLE - DRY	1400 SRM 0945	09/03
STEERING AXLE	1600 SRM 0326	10/03
STEERING SYSTEM	1600 SRM 0936	09/03
BRAKE SYSTEM - DRY	1800 SRM 0937	12/03
BRAKE SYSTEM - WET	1800 SRM 0951	09/03
HYDRAULIC SYSTEM	1900 SRM 0938	09/03
MAIN CONTROL VALVE	2000 SRM 0943	09/03
TILT CYLINDERS	2100 SRM 0103	10/03
ALTERNATOR	2200 SRM 0002	10/03
STARTER	2200 SRM 0106	02/01
INSTRUMENT PANEL INDICATORS AND SENDERS	2200 SRM 1105	01/04
MASTS AND CARRIAGES (STARTING 2003)	4000 SRM 1062	02/04
EMPTY CONTAINER HANDLING ATTACHMENT	5000 SRM 0969	09/03
INCH (SAE) and METRIC FASTENERS	8000 SRM 0231	03/03
CAPACITIES and SPECIFICATIONS	8000 SRM 0940	10/03
PERIODIC MAINTENANCE	8000 SRM 1099	02/04
DIAGRAMS	8000 SRM 1103	01/04

PART NO. 1556870
Rev. 02/04

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Specifications

GOVERNOR CYCLE	
Compressor ON	724 kPa (105 psi)
Compressor OFF	862 kPa (125 psi)
RELIEF VALVE SETTING	1034 kPa (150 psi)
LOW AIR PRESSURE WARNING	483 kPa (70 psi) (Later Production)
BRAKES	
Size	
H8.00-12.00XM (H170-280HD)	419.1 × 127.0 mm (16.5×5 in.)
H13.00-16.00XM (H300-360HD)	419.1 × 177.8 mm (16.5×7 in.)
Drum	
Maximum inside diameter, including wear	422.15 mm (16.620 in.)
TORQUE VALUES	
Air Fittings in Air Chambers	34 N•m (25 lbf ft) Maximum
Nuts, Air Chamber Ring Clamps	
H8.00-12.00XM (H170-280HD)	27 to 34 N•m (20 to 25 lbf ft)
H13.00-16.00XM (H300-360HD)	34 to 47 N•m (25 to 35 lbf ft)
Jam Nut, Clevis	47 to 68 N•m (35 to 50 lbf ft)
Lock Nuts, Air Chamber Studs	13.5 N•m (10 lbf ft) Minimum
Capscrew, Brake Anchor Pin	13.5 N•m (10 lbf ft) Minimum
Capscrew, Spider	See Figure 16.
Capscrew, Camshaft Bracket	
Grade 5	88 to 136 N•m (65 to 100 lbf ft)
Grade 8	122 to 163 N•m (90 to 120 lbf ft)

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Troubleshooting With an Event Code

EVENT CODES

NOTE: If a diagnostic code has already been logged, then any associated event code to that fault will not be logged as well.

The ECM can log events. Events refer to engine operating conditions such as low oil pressure or high coolant temperature. Logged events usually indicate a mechanical problem instead of an electronic system problem.

PROGRAMMABLE ENGINE PARAMETERS

The following features may be programmed:
- Engine warning
- Engine derate
- Engine shutdown

When the features are activated, the event will be logged in the ECM.

E015 HIGH ENGINE COOLANT TEMPERATURE DERATE

Conditions Which Generate This Code

The engine has been running for at least 3 minutes. The engine coolant temperature has exceeded the trip point and the delay time has expired.

System Response

The alarm output is activated. The event is logged.

Possible Performance Effect

The engine power is reduced.

Troubleshooting

Refer to Troubleshooting, Coolant Temperature Is Too High.

Results

- OK - STOP

E016 HIGH ENGINE COOLANT TEMPERATURE SHUTDOWN

Conditions Which Generate This Code

The engine has been running for at least 3 minutes. The engine coolant temperature has exceeded the trip point and the delay time has expired.

System Response

If the engine shutdown is ENABLED the fuel will be shut off. The event will be logged.

Possible Performance Effect

The engine is shutdown.

Troubleshooting

Refer to Troubleshooting, Coolant Temperature Is Too High.

Results

- OK - STOP

E017 HIGH ENGINE COOLANT TEMPERATURE WARNING

Conditions Which Generate This Code

The engine has been running for at least 3 minutes. The engine coolant temperature has exceeded the trip point and the delay time has expired.

System Response

The alarm output is activated. The event is logged.

Possible Performance Effect

The engine operation is not immediately affected. However, if the coolant temperature continues to rise, the engine will be derated.

Troubleshooting

Refer to Troubleshooting, Coolant Temperature Is Too High.

Results

- OK - STOP

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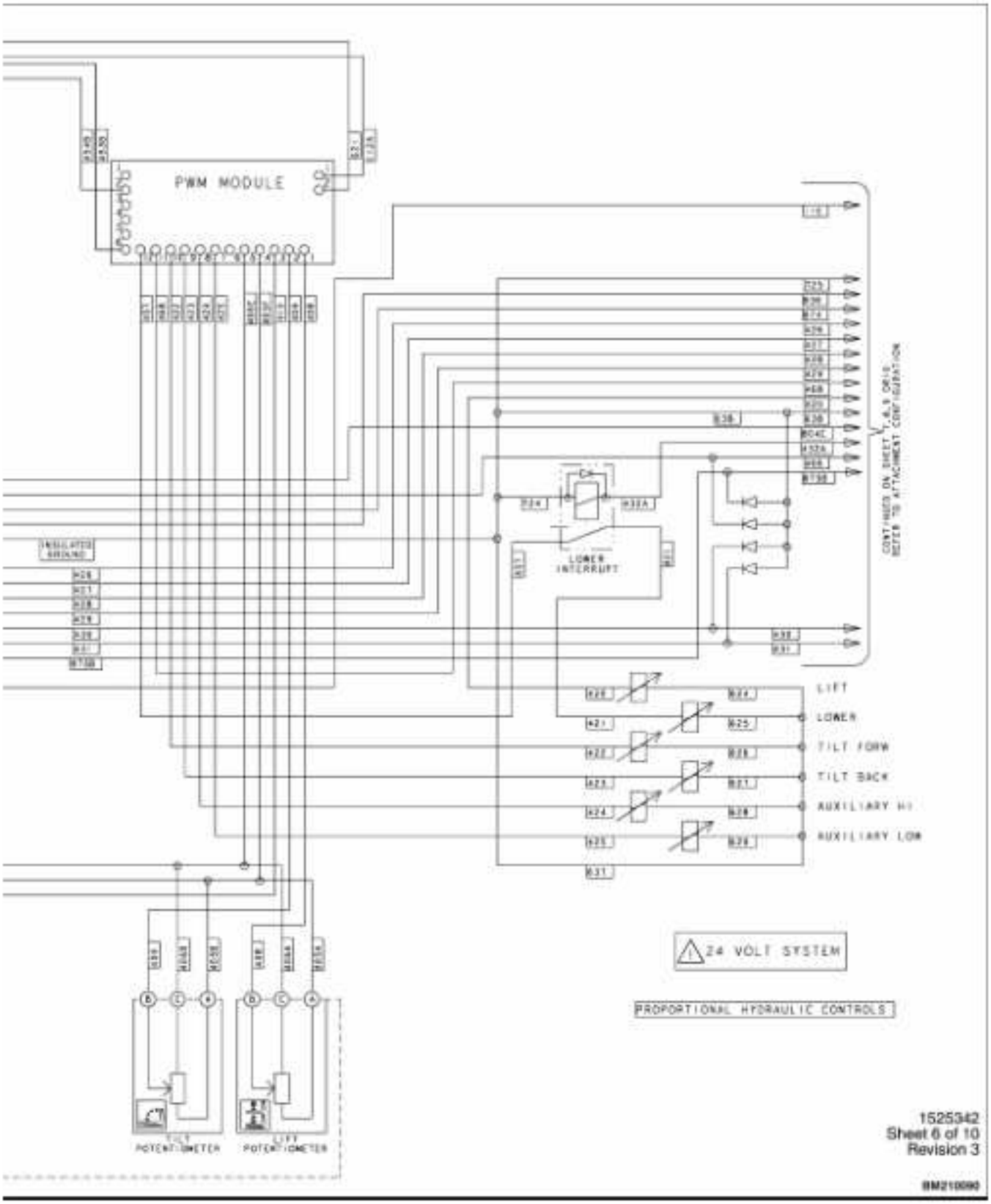


Figure 5. Electrical Schematic (Sheet 6 of 10)

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