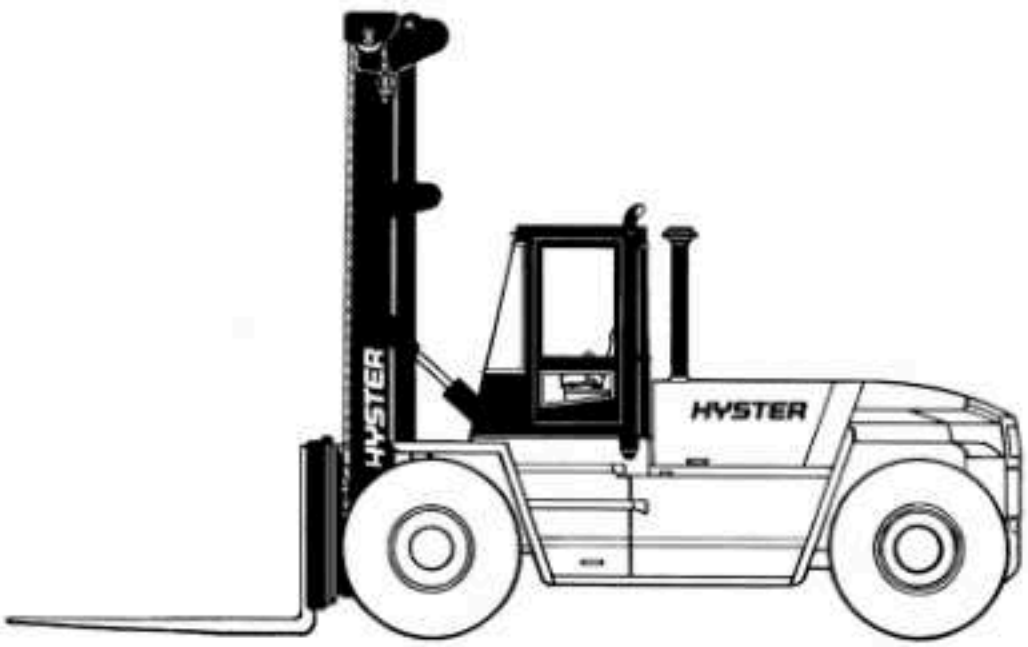
SERVICE MANUAL

H360H, H400H, H450H (A214)



FORM 1452600 Rev. 12/03

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H360H, H400H, H450H (A214)
SERVICE MANUAL CONTENTS

Section	SRM Number	Rev Date
FRAME	0100 SRM 0656	07/02
COOLING SYSTEM	0700 SRM 0626	11/01
ZF THREE-SPEED PS TRANSMISSION	1300 SRM 0669	05/97
DIFFERENTIAL	1400 SRM 0046	11/03
PLANETARY DRIVE AXLE	1400 SRM 0657	05/97
STEERING AXLE	1600 SRM 0658	03/97
STEERING SYSTEM	1600 SRM 0671	09/03
BRAKE SYSTEM	1800 SRM 0659	09/03
ACCUMULATOR	1800 SRM 1036	09/02
PARKING BRAKE	1800 SRM 1037	02/03
HYDRAULIC SYSTEM	1900 SRM 0666	09/02
TILT CYLINDERS	2100 SRM 0103	10/03
INSTRUMENT PANEL INDICATORS and SENDERS	2200 SRM 0143	12/03
MAST - FORK LIFT	4000 SRM 0660	04/97
MAST - EMPTY CONTAINER HANDLER	4000 SRM 0661	02/04
EMPTY CONTAINER HNDLG ATTACH (572,573,575,578)	5000 SRM 0990	09/01
INCH (SAE) and METRIC FASTENERS	8000 SRM 0231	03/03
PERIODIC MAINTENANCE	8000 SRM 0662	05/97
DIAGRAMS	8000 SRM 0663	08/02
CAPACITIES and SPECIFICATIONS	8000 SRM 0664	08/02
PERIODIC MAINTENANCE with TIER 2 EMISSION ENGINE	8000 SRM 1043	12/03

PART NO. 1452600
Rev. Unknown

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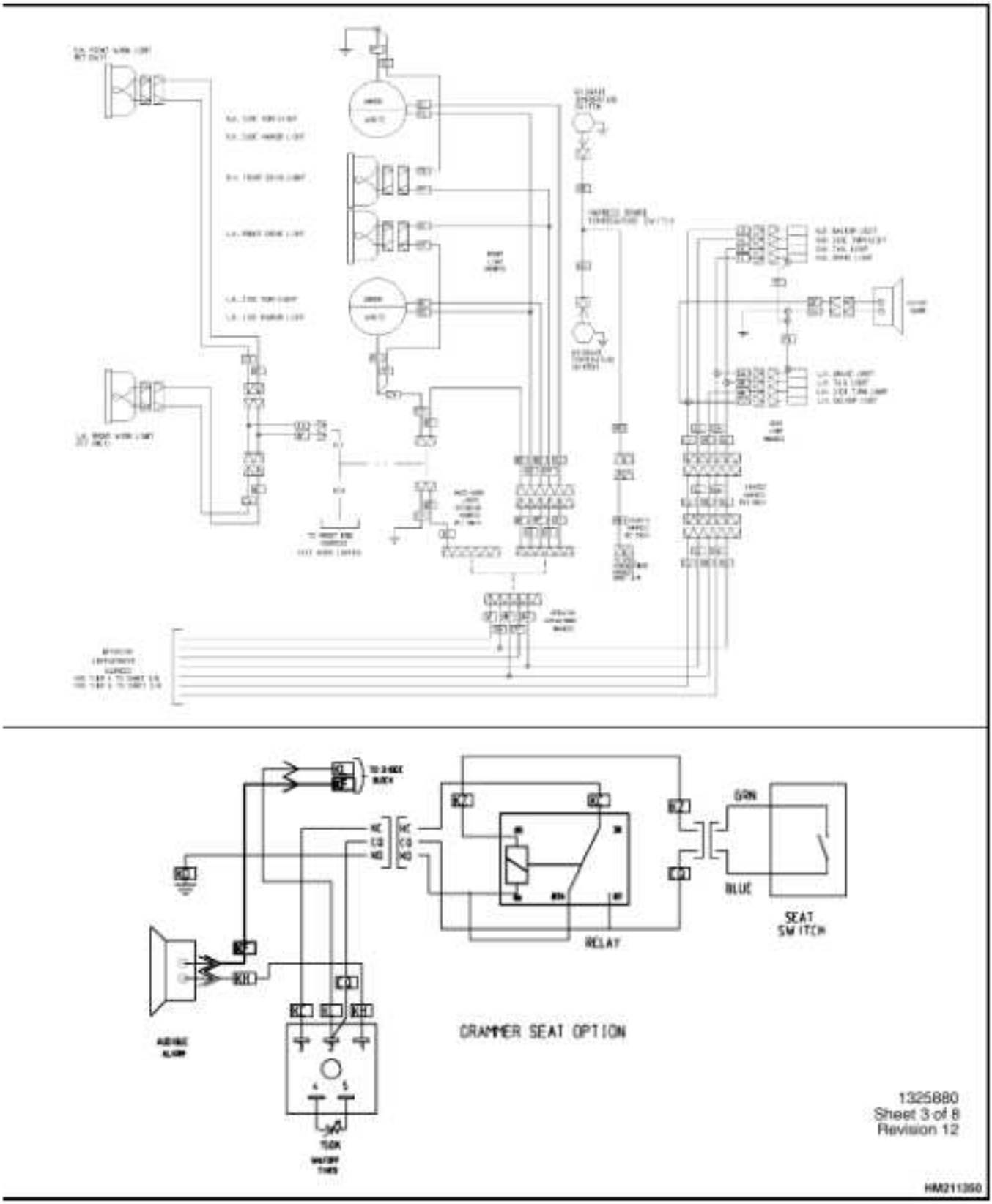


Figure 1. Electrical Schematic and Wiring Diagram (Sheet 3 of 8)

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Container Attachment Weights

Extendable Attachment	Weight
6 to 12.2 m (20 to 40 ft)	
Shooting Pins	5346 kg (11,786 lb)
Double Horizontal Twist Locks	5300 kg (11,685 lb)
Hooks/Vertical/Horizontal Twist Locks	4500 kg (9,921 lb)

Engine Specifications

Item	Cummins 6BTAS 5.9-C (Tier 1)	Cummins QSB 5.9 (Tier 2)
Number of Cylinders	6	6
Firing Order	1-5-3-6-2-4	1-5-3-6-2-4
Bore and Stroke	102 mm × 120 mm (4.02 in. × 4.62 in.)	102 mm × 120 mm (4.02 in. × 4.62 in.)
Displacement	5.9 liter (360.04 $in.^3$)	5.9 liter (360.04 $in.^3$)
Compression Ratio	16.5:1	16.5:1
Oil Pressure (Minimum at idle)	69 kPa (10 psi)	103 kPa (15 psi)
Governed Speed		
Full Power	2500 rpm ±50 rpm	2200 rpm ±50 rpm
No Load	2680 rpm ±50 rpm	2420 rpm ±50 rpm
Idle Speed	900 rpm ±25 rpm	800 rpm ±25 rpm
Stall Speed (Broken-in, hot)	2050 rpm ±50 rpm	2050 rpm ±50 rpm
Engine Oil Pressure		
Minimum pressure at 2500 rpm, gov. speed	276 kPa (40 psi)	310 kPa (45 psi)
Minimum pressure at low idle	69 kPa (10 psi)	103 kPa (15 psi)
Minimum Cranking	125 rpm	150 rpm

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switch increment/decrement is operated. For explanation of fault codes, see Table 3.

Table 3. Error Code Descriptions

Fault Code Present/Maintenance Required			Fault Code Readout	
Limited Operating Conditions Warning Light	Engine Stop Warning Light	Maintenance Warning Light	Fault Code	Description
	ON		111	Engine control module, critical internal failure
	ON		115	Engine speed/position sensor circuit, lost of both signals from magnetic pickup sensor
ON			122	Intake manifold pressure sensor #1 circuit, shorted high
ON			123	Intake manifold pressure sensor #1 circuit, shorted low
	ON		131	Accelerator pedal position sensor circuit, shorted high
	ON		132	Accelerator pedal position sensor circuit, shorted low
	ON		133	Remote accelerator pedal position sensor circuit, shorted high
	ON		134	Remote accelerator pedal position sensor circuit, shorted low
ON			135	Engine oil pressure sensor circuit, shorted high
ON			141	Engine oil pressure sensor circuit, shorted low
ON			143	Engine oil pressure low, warning
ON			144	Engine coolant temperature sensor circuit, shorted high
ON			145	Engine coolant temperature sensor circuit, shorted low
ON			146	Engine coolant temperature warning, high
	ON		147	Accelerator pedal position sensor circuit, low frequency
	ON		148	Accelerator pedal position sensor circuit, high frequency
	ON		151	Engine coolant temperature high, critical

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