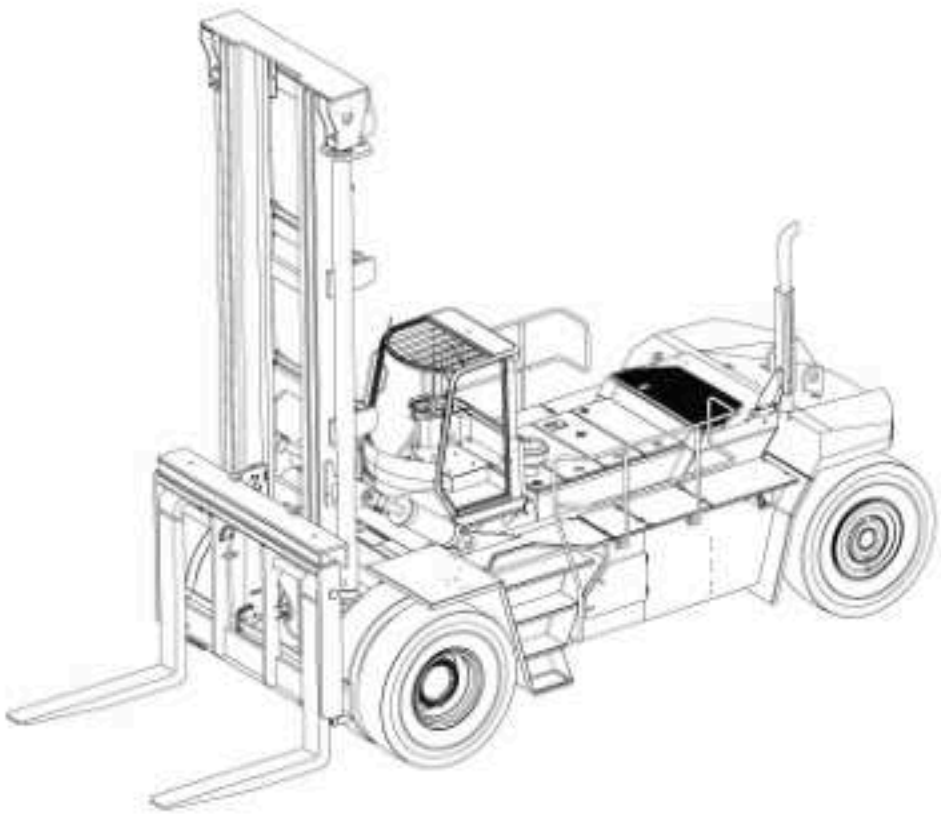
SERVICE MANUAL

A917 (H800-900-1050HD, H800-900-970-1050HDS)

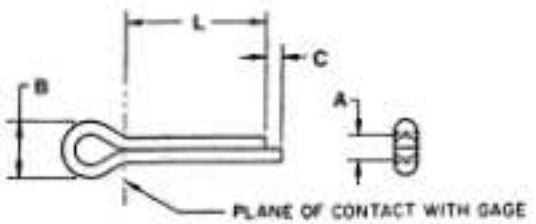


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Table 11. Cotter Pin Dimensional Data

Nominal Length L	Length Range		Nominal Size - Part Numbers	
	max	min	13.0 mm (0.500 in.)	16.00 mm (0.625 in.)
19.05 mm (0.750 in.)	20.5 mm (0.807 in.)	18.3 mm (0.720 in.)		
25.4 mm (1.00 in.)	26.9 mm (1.060 in.)	23.9 mm (0.940 in.)		
31.75 mm (1.250 in.)	33.3 mm (1.310 in.)	29.2 mm (1.150 in.)		
38.1 mm (1.500 in.)	40.9 mm (1.610 in.)	36.6 mm (1.440 in.)		
44.45 mm (1.750 in.)	46.0 mm (1.810 in.)	42.9 mm (1.690 in.)	0221889	
50.8 mm (2.000 in.)	52.3 mm (2.060 in.)	49.3 mm (1.940 in.)	0221890	
57.15 mm (2.250 in.)	58.7 mm (2.310 in.)	55.1 mm (2.170 in.)	0221891	
63.5 mm (2.500 in.)	65.0 mm (2.560 in.)	62.0 mm (2.440 in.)	0221892	
69.85 mm (2.750 in.)	72.1 mm (2.840 in.)	68.3 mm (2.690 in.)	0221893	0221895
76.2 mm (3.000 in.)	81.3 mm (3.200 in.)	74.7 mm (2.940 in.)	0015291	0221896
88.9 mm (3.500 in.)	91.4 mm (3.600 in.)	87.4 mm (3.440 in.)	0015292	0221897
101.6 mm (4.000 in.)	113.3 mm (4.460 in.)	98.8 mm (3.890 in.)	0015293	0221898
127.0 mm (5.000 in.)	128.5 mm (5.060 in.)	123.7 mm (4.870 in.)	0015295	0221899
152.4 mm (6.000 in.)	153.9 mm (3.060 in.)	138.7 mm (5.460 in.)	0015297	0221900



EXTENDED PRONG

HM211587

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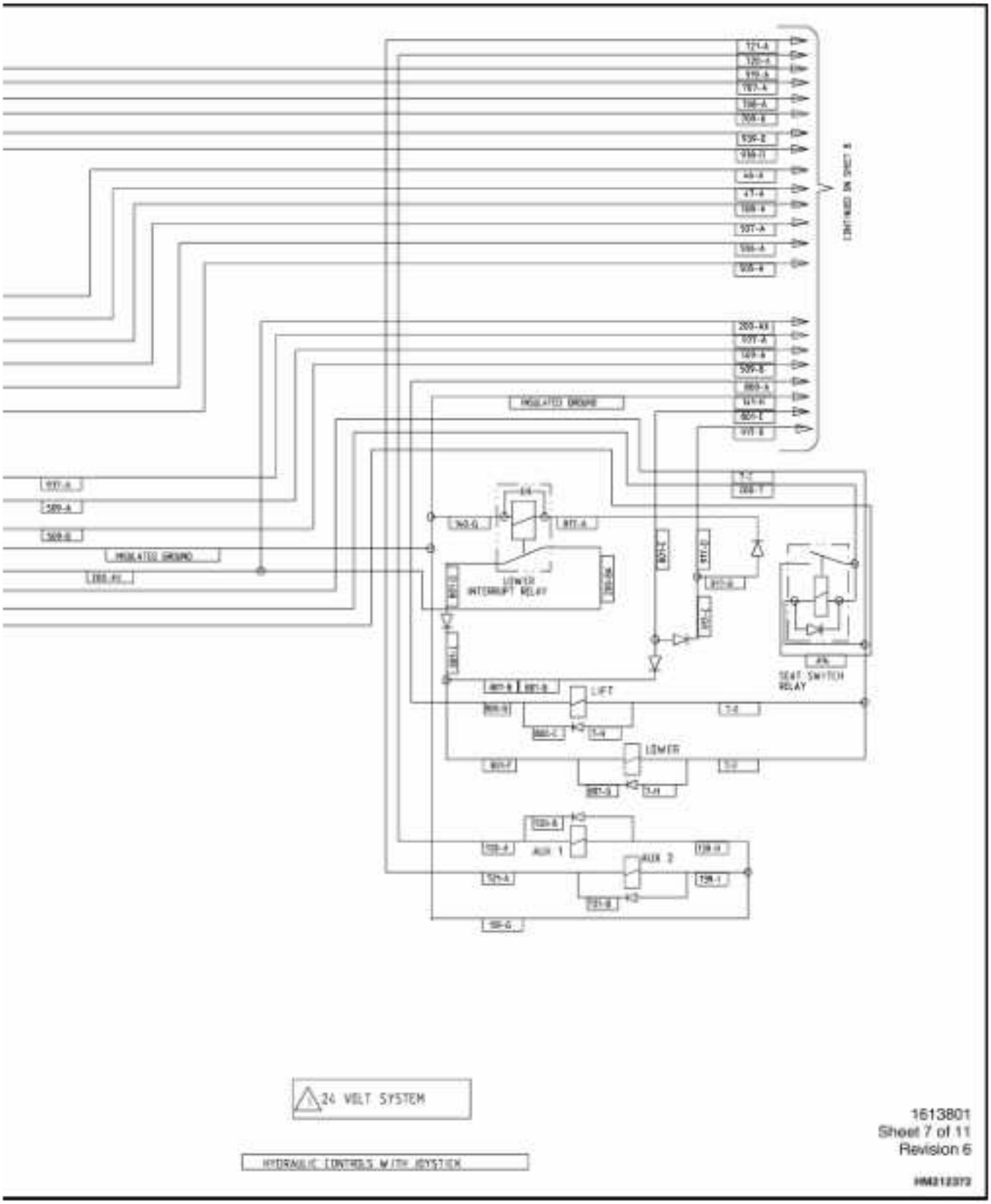


Figure 2. Electrical Schematic (A917) (Sheet 7 of 11)

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General

This manual provides an explanation of the transmission fault codes that are generated by the APC200 family transmission controllers. Transmission controller APC211 is used for transmissions with intensifier valves. Transmission controller APC216 is used for transmissions with Full Flow control valves, as used on TE-10 and TE27-32 transmissions starting 2011. The terms used are generic for these controllers. Component locations and electrical schematics are in the Transmission Description SRMs for each different truck series. There are four different groups of fault codes, which are explained in this section.

For F008 and G008 trucks the indication "Forward" and "Reverse" needs to be considered for the transmission and for the truck separately. The truck moves according the position of the shift lever or MONOTROL pedal, but the signals forward and reverse have been interchanged with the transmission functions forward and reverse. The indication "forward" and "reverse" for transmission components is still identical to the original nomenclature of the manufacturer. This means that an indicated forward clutch has the function to move the F008 and G008 truck in reverse. The same interpretation applies for the explanation of fault codes and for the Dana Dashboard system, where the indication forward relates to transmission components with the same indication forward like for a clutch, pressure port or solenoid. When doing repairs or ordering spare parts, remember that activating the forward clutch on F008 and G008 trucks causes the lift truck to move in reverse direction, and activating the reverse clutch causes the F008 and G008 truck to move in forward direction.

TRANSMISSION EXCEED CODES

During operation of the truck, the APC200 controller may display transmission exceed codes on the hourmeter/fault code display. These exceed codes reflect that the request made by the operator will not be executed because of certain circumstances.Table 1 lists the exceed codes with a description of the encountered circumstances.

CLUTCH CALIBRATION CONDITION MESSAGES

During clutch calibration, codes may be displayed that indicate incorrect circumstances for proper clutch calibration. The explanation of these codes are in Table 4.

FAULT CODES DURING CLUTCH CALIBRATION

During clutch calibration, fault codes with a preceding "E" may be displayed. For example E1.25. The first digit after the "E" can be a "1" or a "2". "1" relates to faults during clutch filling time. "2" relates to faults during clutch engagement. The last two digits indicate calibration faults, which are listed and explained in Table 6.

APC200 FAULT CODES

Each fault code represents a specific defect or malfunction. The suggested rectification is by checking electrical functionality between the APC200 and the components connected. See Table 7.

In the explanation of the fault codes are references to electrical functions, signals and pin numbers, which are listed in Table 2 for APC211, controllers and in Table 3 for APC216 controllers.

The pin codes A1 until S3 refer to the terminals in the APC200 connector, also referred to as connectors J1 and J2. These terminal references are shown on the electrical schematic to provide a link with the Hyster wire number. Not all terminals are used for the different truck applications.

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