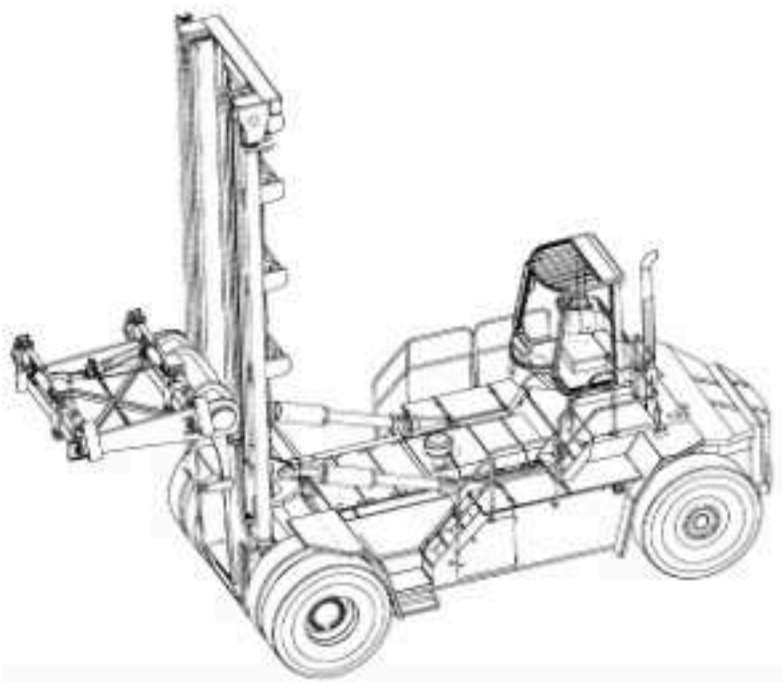
SERVICE MANUAL

H40.00-52.00XM-16CH
(H1050HD-CH, 1150HD-CH) [F117]

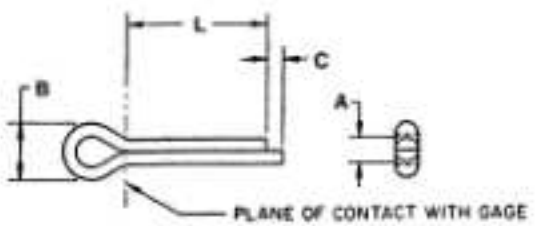


FORM 1616023 Rev. 06/14

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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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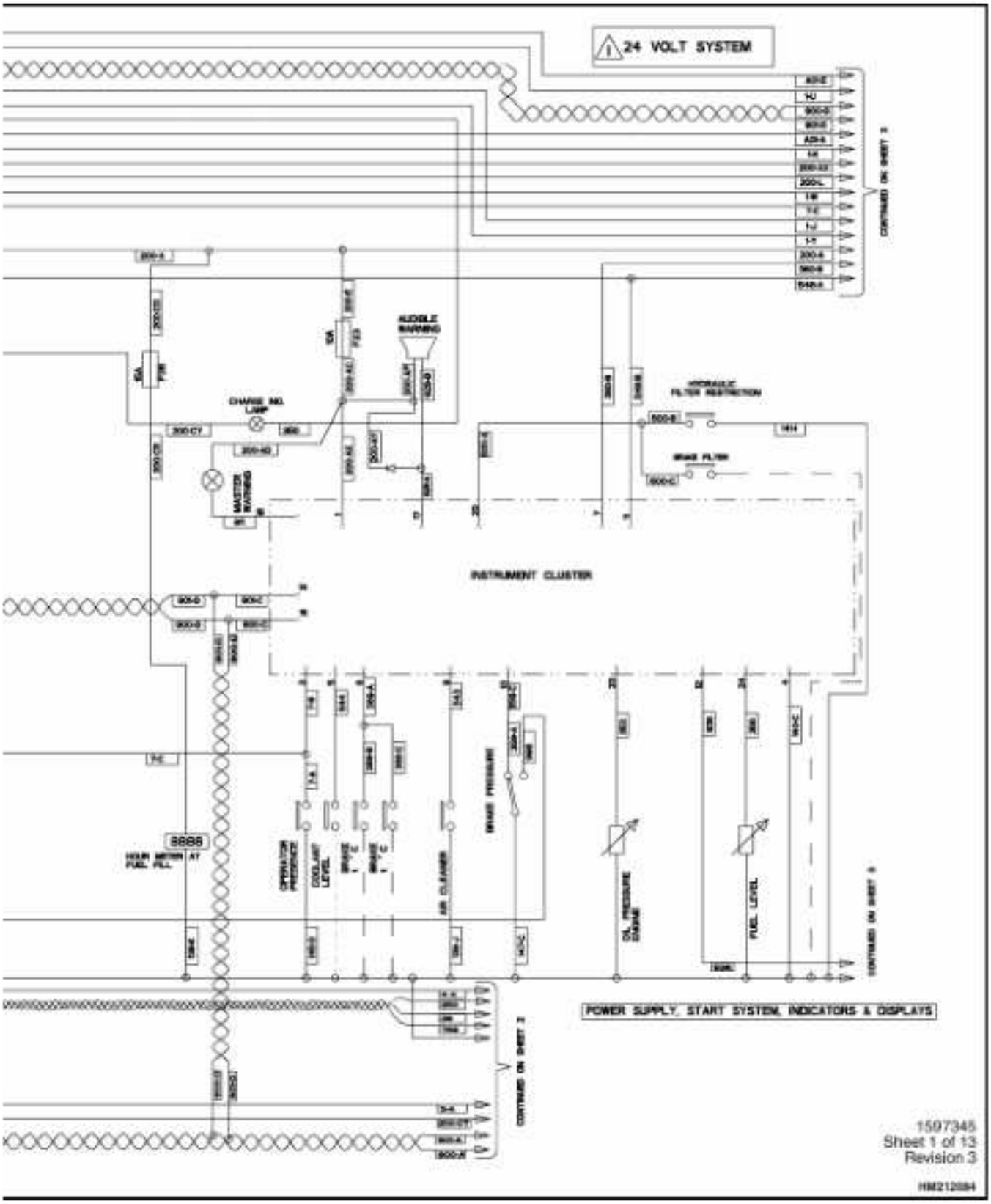


Figure 1. Electrical Schematic (F117) (Sheet 1 of 13)

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APC200 FAULT CODES

Table 7. APC200 Fault Codes

Fault Code	Fault Explanation	APC200 Action	Troubleshooting
00.50	There is a hardware problem related to the internal RAM (in CPU) of the APC200.	The APC200 reverts to a Shut Down Mode and will deactivate the total neutral solenoid.	Replace the APC200.
00.51	There is a hardware problem related to the system RAM (in CPU) of the APC200.	The APC200 reverts to a Shut Down Mode and will deactivate the total neutral solenoid.	Replace the APC200.
00.52	There is a hardware problem related to the external RAM of the APC200.	The APC200 reverts to a Shut Down Mode and will deactivate the total neutral solenoid.	Replace the APC200.
00.53	There is a hardware problem related to the Flash program memory of the APC200.	The APC200 reverts to a Shut Down Mode and will deactivate the total neutral solenoid.	Replace the APC200.
20.60	Pressure feedback line, ANI0 (pin A2) is in the 1500 - 4000 ohm range, indicating there is no system pressure present. The speed sensor indicates that ANI0 should be in the 500 - 1500 ohm range.	The APC200 reverts to a Shut Down Mode and will deactivate the total neutral solenoid.	Check the wiring between the controller and the pressure feedback sensor. Check the pressure feedback sensor (engine running/stopped).
20.61	Pressure feedback line, ANI0 (pin A2) is in the 500 - 1500 ohm range, indicating system pressure is present. The speed sensor indicates that ANI0 should be in the 1500 - 4000 ohm range.	Controller reverts to a Shut Down Mode and will deactivate the total neutral solenoid.	Check the wiring between the APC200 and the pressure feedback sensor. Check the pressure feedback sensor (engine running/stopped).
21.00	Supply pressure on sensor 1 to transmission too low. Proportional solenoid stuck.	Controller reverts to a Shut Down Mode and will deactivate the total neutral solenoid.	Check supply pressure to the transmission. Log pressure when problem occurs.
21.01	Supply pressure on sensor 1 to transmission too high. Proportional solenoid stuck.	Controller reverts to a Shut Down Mode and will deactivate the total neutral solenoid.	Check supply pressure to the transmission. Log pressure when problem occurs.
22.00	Supply pressure on sensor 2 to transmission too low. Proportional solenoid stuck.	Controller reverts to a Shut Down Mode and will deactivate the total neutral solenoid.	Check supply pressure to the transmission. Log pressure when problem occurs.
22.01	Supply pressure on sensor 2 to transmission too high. Proportional solenoid stuck.	Controller reverts to a Shut Down Mode and will deactivate the total neutral solenoid.	Check supply pressure to the transmission. Log pressure when problem occurs.

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