

## 1. INSTRUCTIONS AND CHARTS (CHAPTER 1)

### 1.1. CIRCUIT IDENTIFICATION CHART, P. 1

INTERNATIONAL TRUCK AND ENGINE CORPORATION				ELECTRICAL CIRCUIT DIAGRAM CHAPTER 1	
THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF INTERNATIONAL TRUCK AND ENGINE CORPORATION.				NAVISTAR CIRCUIT NUMBER IDENTIFICATION & COLOR	
CIRCUIT NUMBER	DESCRIPTION - COLOR	CIRCUIT NUMBER	DESCRIPTION - COLOR		
1	GENERATOR - FIELD - LIGHT BLUE	37	FUEL PUMP - TAN		
2	GENERATOR - CHARGE - RED	38	HEATED SEAT - LIGHT GREEN		
3		39	AIR DRYER - GRAY		
4		40	LOW AIR PRESSURE WARNING - GRAY		
5		41	OUTSIDE AIR TEMP/COMPASS - TAN		
6		42	FRONT AXLE - GRAY		
7	ALTERNATOR - RESISTANCE - RED	43	POWER DIVIDER LOCK (PDL) - GRAY		
8		44	PARK BRAKE WARNING - GRAY		
9		45	ANTI-THEFT WARNING - LIGHT GREEN		
10		46	POWER TAKE-OFF WARNING - GRAY		
11	GROUND - WHITE	47	SPEEDOMETER - GRAY		
12	ACCESSORY FEED - LIGHT BLUE	48	TACHOMETER - GRAY		
13	IGNITION FEED - PINK	49	DIFFERENTIAL LOCK - GRAY		
14	BATTERY FEED - RED	50	LIGHT SWITCH FEED - YELLOW		
15	KEY SWITCH FEED - RED	51	DIMMER SWITCH - YELLOW		
16		52	HEADLIGHT - HIGH BEAM - YELLOW		
17	STARTER CONTROL - PINK	53	HEADLIGHT - LOW BEAM - YELLOW		
18	GLOW PLUG/PRE-HEATER - PINK	54	PARKING/MARKER LIGHTS - BROWN		
19	ENGINE SHUT-OFF - GRAY	55	TURN SIGNAL - ORANGE		
20		56	TURN SIGNAL LIGHTS - LEFT - ORANGE		
21	ETHER START - TAN	57	TURN SIGNAL LIGHTS - RIGHT - ORANGE		
22		58	CLEARANCE AND IDENTIFICATION LIGHTS - BROWN		
23	ENGINE COOLING - TAN	59			
24	ENGINE BRAKE GRAY	60	HAZZARD LIGHTS - ORANGE		
25	PYROMETER - TAN	61	AIR SUSPENSION - GRAY		
26	AMMETER - TAN	62	PANEL LIGHTS - DARK BLUE		
27	VOLTMETER - TAN	63	COURTESY AND DOME LIGHTS - DARK BLUE		
28	INSTRUMENT FEED - TAN	64	AUXILIARY LIGHTS - YELLOW		
29	ENGINE WATER TEMPERATURE - TAN	65	5TH WHEEL/WORK LIGHT - ORANGE		
30	ENGINE OIL TEMPERATURE - TAN	66	DAYTIME RUNNING LIGHTS - YELLOW		
31	TRANSMISSION OIL TEMPERATURE - TAN	67			
32	AXLE OIL TEMPERATURE - TAN	68	TAIL LIGHTS - BROWN		
33	ENGINE OIL LEVEL - TAN	69	LICENSE PLATE LIGHT - BROWN		
34	WATER LEVEL - TAN	70	STOP LIGHTS - ORANGE		
35	ENGINE OIL PRESSURE - TAN	71	BACK-UP LIGHTS - ORANGE		
36	FUEL LEVEL - TAN	72	TRAILER AUXILIARY - ORANGE		

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
JKP	MAR02	ADDED DESC AT 38 & 41.	A	55093F	RROEPKE	INSTRUCTIONS AND CHARTS FOR ALL MODELS
					RELEASE NO.	DATE
					P52600M	29 JUL 98
						PART NO.
						AF08-52011
						SHEET
						01

Figure 1 Circuit Identification Chart, page 1

1.3. CIRCUIT DIAGRAM INSTRUCTIONS, P. 3


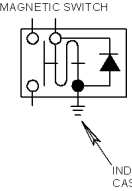


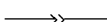
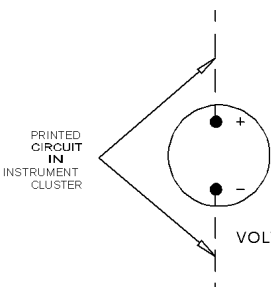
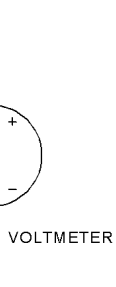
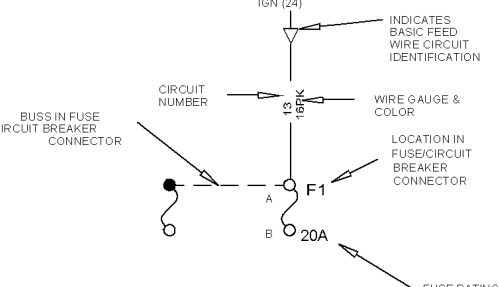
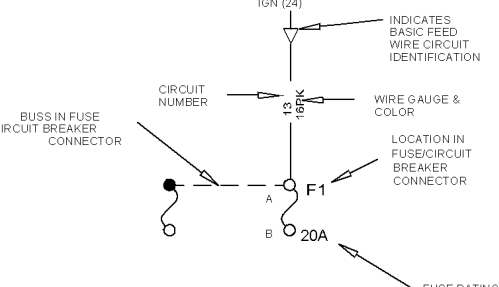
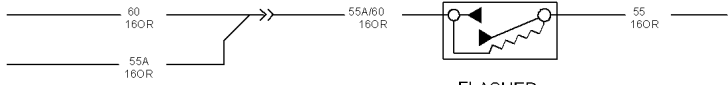
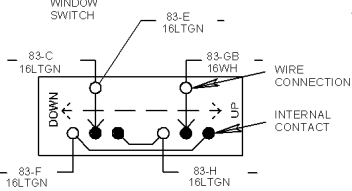
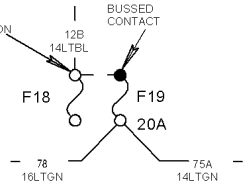
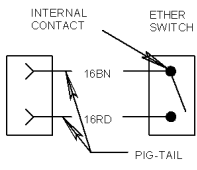
<p><b>NAVISTAR INTERNATIONAL TRANSPORTATION CORP.</b></p> <p>THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE NAVISTAR INTERNATIONAL TRANSPORTATION CORP.</p>		<p><b>ELECTRICAL CIRCUIT DIAGRAM CHAPTER 1</b></p> <p>INSTRUCTIONS</p>						
<p><b>A - SWITCH AND RELAY POSITIONS AS SHOWN ON CIRCUIT DIAGRAMS INDICATE NORMAL POSITION WITH IGNITION OFF UNLESS OTHERWISE NOTED.</b></p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>SWITCH-MANUAL</p>  </div> <div style="text-align: center;"> <p>MAGNETIC SWITCH</p>  <p>INDICATES CASE GROUND</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;">  <p>RELAY-SUPPRESSED</p> </div> </div>		<p><b>B - MULTIPLE CONNECTORS ARE DISPLAYED ON SCHEMATIC AS SHOWN. REFER TO CONNECTOR COMPOSITE WITH APPLICABLE NUMBER FOR MORE COMPLETE INFORMATION.</b></p> <div style="text-align: center; margin: 10px 0;">  </div> <p>SINGLE IN-LINE CONNECTORS DISPLAYED AS SHOWN WITHOUT CONNECTOR NUMBER.</p> <div style="text-align: center; margin-top: 10px;">  </div>						
<p><b>C - PHANTOM LINES INDICATE PRINTED CIRCUITS OR BUSSED CIRCUITS. THESE CIRCUITS EXIST IN THE INSTRUMENT CLUSTERS AND FUSE/CIRCUIT BREAKER CONNECTORS.</b></p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>PRINTED CIRCUIT IN INSTRUMENT CLUSTER</p> </div> <div style="text-align: center;">  <p>VOLTMETER</p> </div> <div style="text-align: center;">  <p>BUSS IN FUSE CIRCUIT BREAKER CONNECTOR</p> </div> </div> <div style="margin-top: 10px;">  </div>								
<p><b>D - MULTIPLE CIRCUIT NUMBERS ON A LINE INDICATE ONE WIRE DISTRIBUTING CURRENT TO TWO CIRCUITS.</b></p> <div style="text-align: center; margin: 10px 0;">  <p>FLASHER</p> </div>								
<p><b>E - SWITCHES, RELAYS &amp; COMPONENTS INDICATE EXTERNAL WIRE CONNECTIONS AND/OR INTERNAL CONNECTIONS OR CONTACTS.</b></p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div>								
CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME		
					RROEPKE	INSTRUCTIONS AND CHARTS FOR ALL MODELS		
					RELEASE NO.	DATE	PART NO.	
					P52800M	29.JUL.98	AF08-52011	
							SHEET	3

Figure 3 Circuit Diagram Instructions, page 3

2.3. BATTERY, P. 3

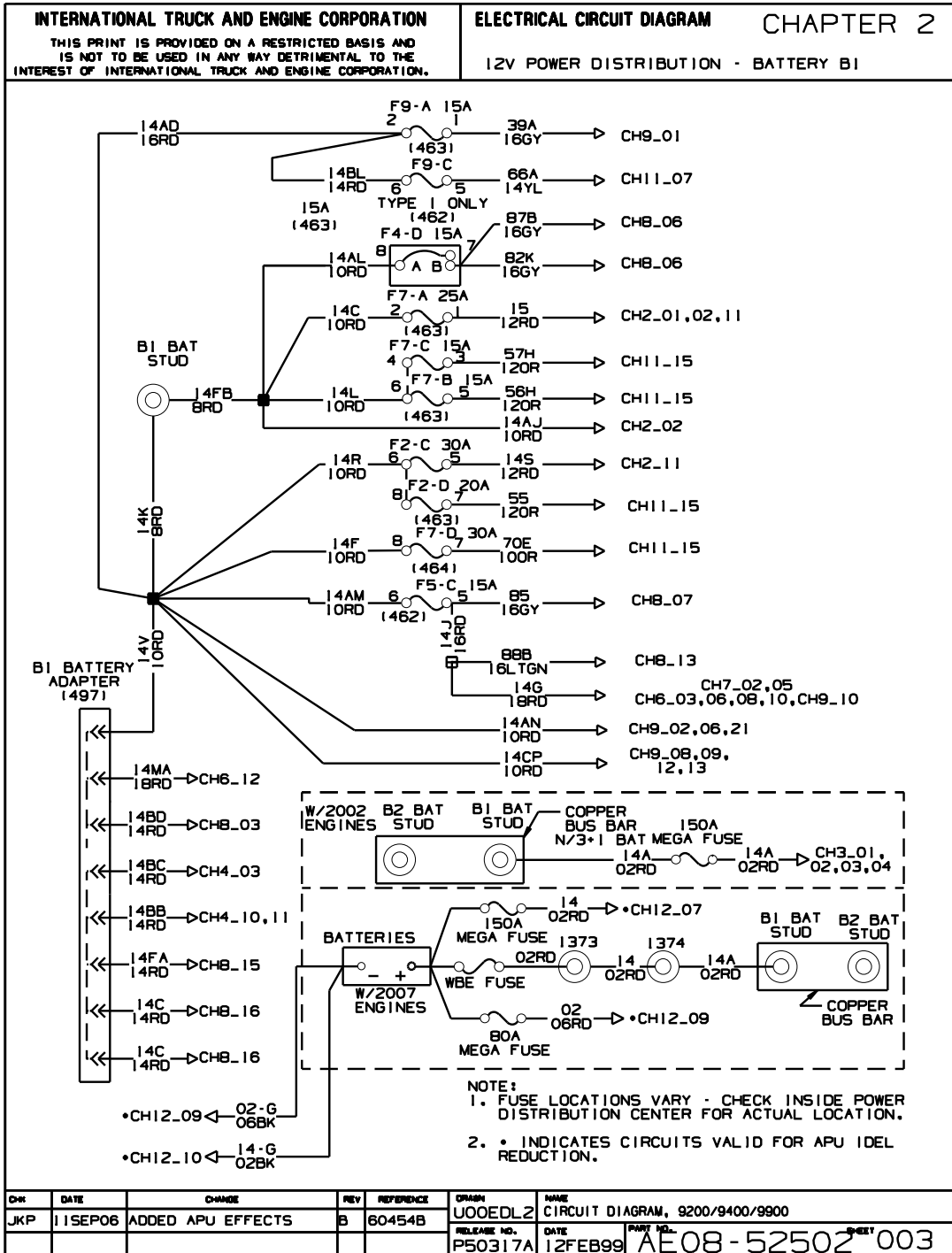


Figure 10 Battery, B1

3.2. W/OVERCRANK PROTECTION W/CAT AND CUMMINS ENGINES, P. 2

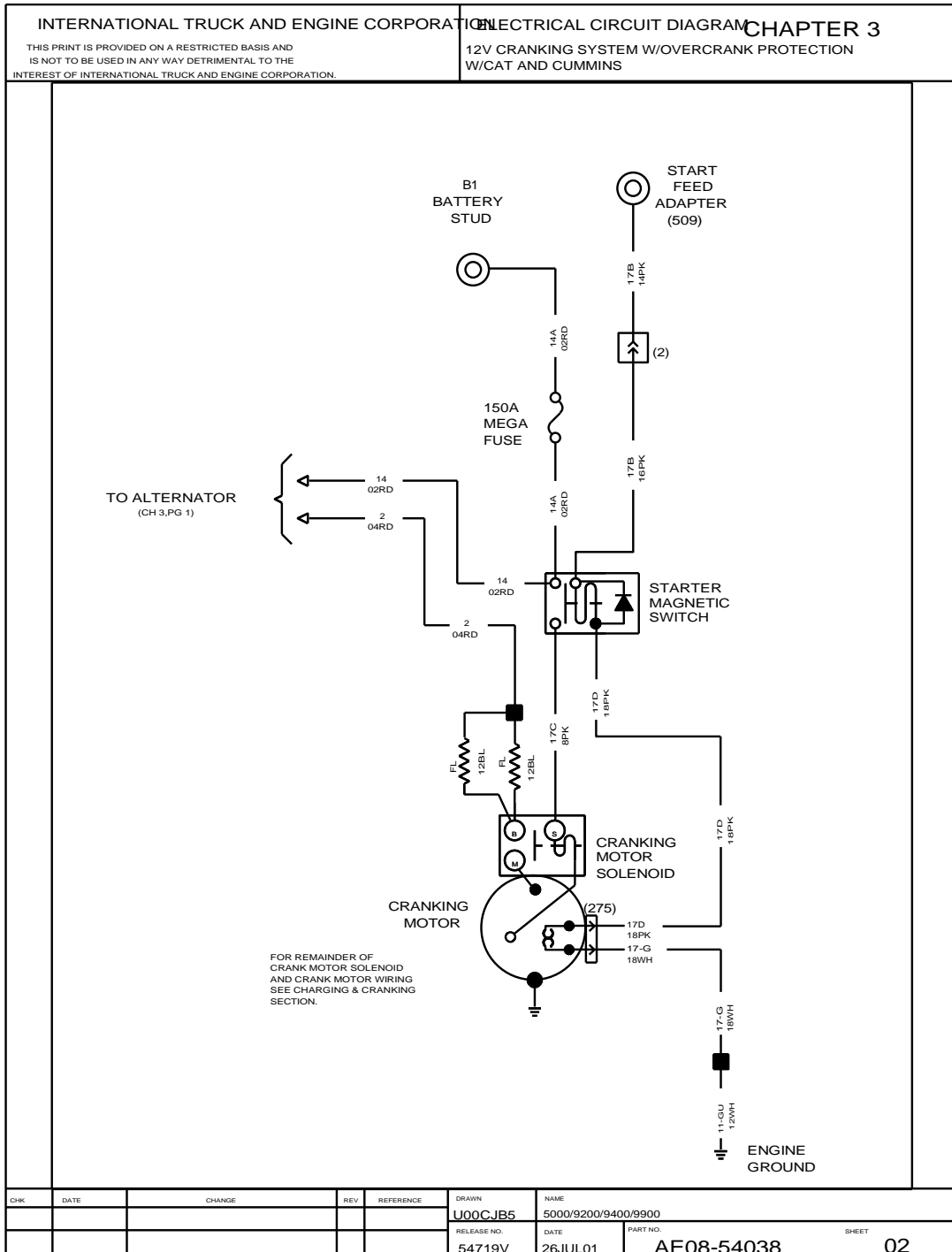


Figure 20 W/Overcrank Protection W/Cat and Cummins Engines

4.3. CATERPILLAR C10, C11, C12, C13, C15, AND C16 ENGINE CONTROLS, P. 3

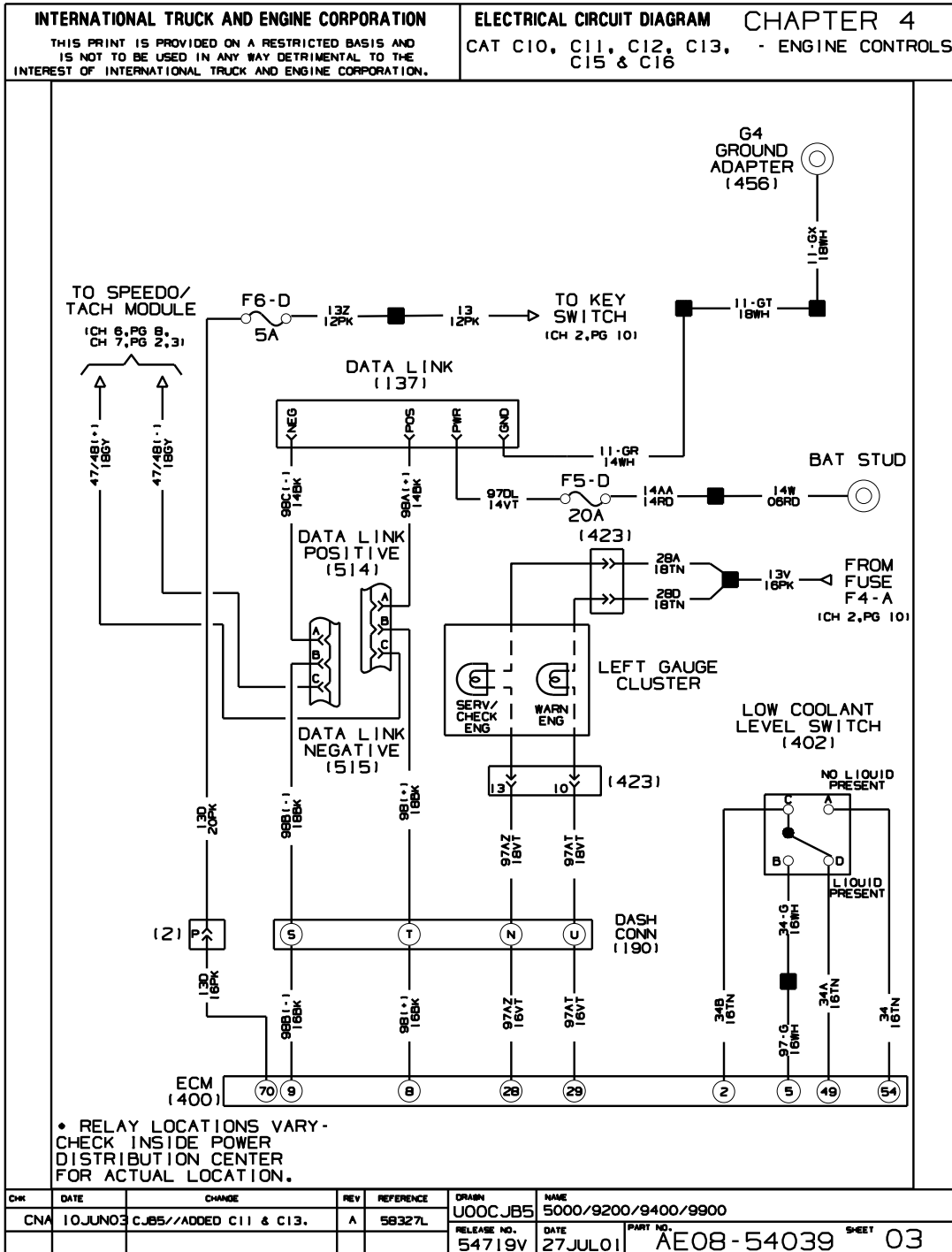


Figure 26 Caterpillar C10, C11, C12, C13, C15, and C16 Engine Controls

4.9. I6 HEUI — ENGINE BRAKE, P. 9

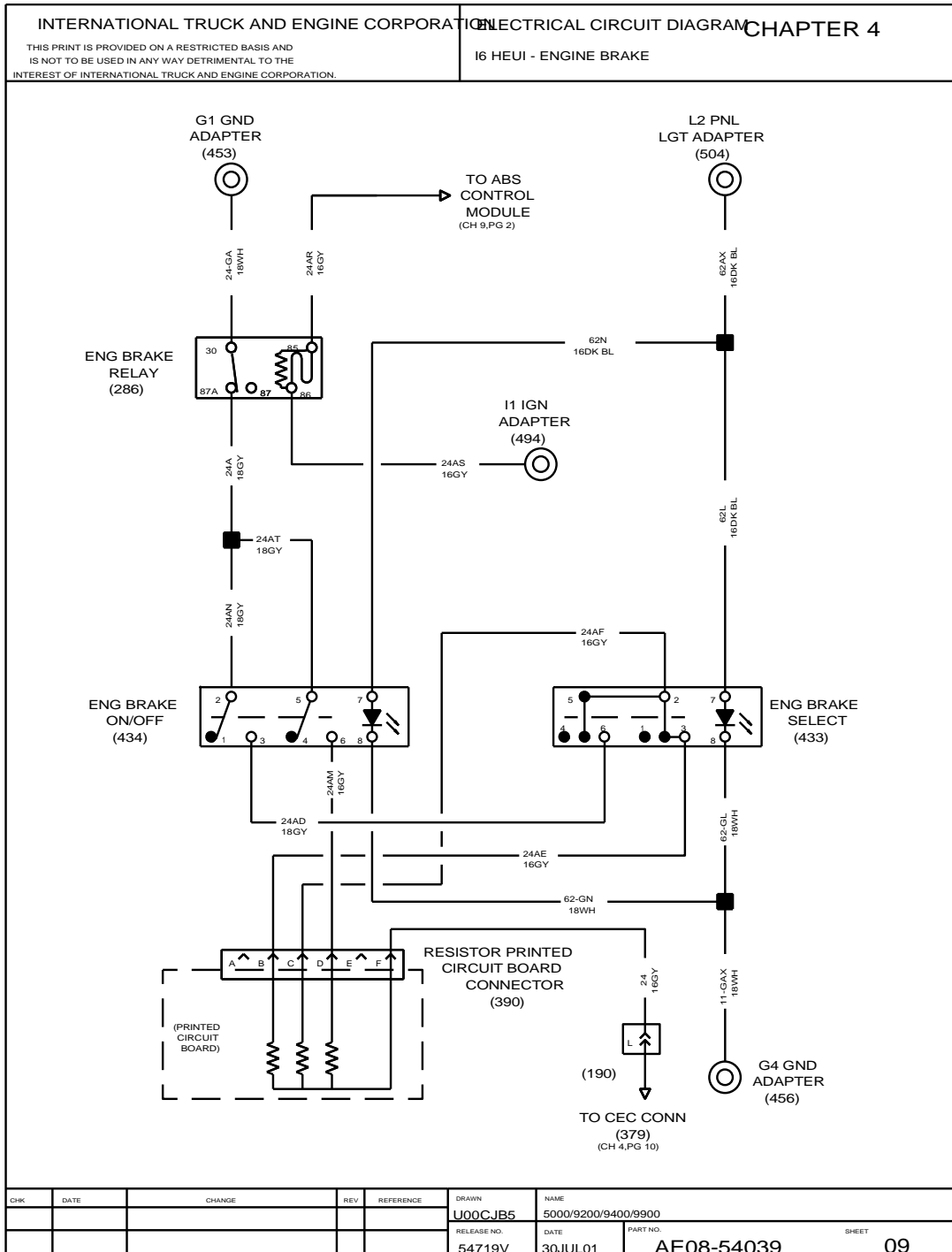


Figure 32 I6 HEUI — Engine Brake

6.8. SPEEDOMETER GAUGE — TACHOMETER GAUGE, P. 8

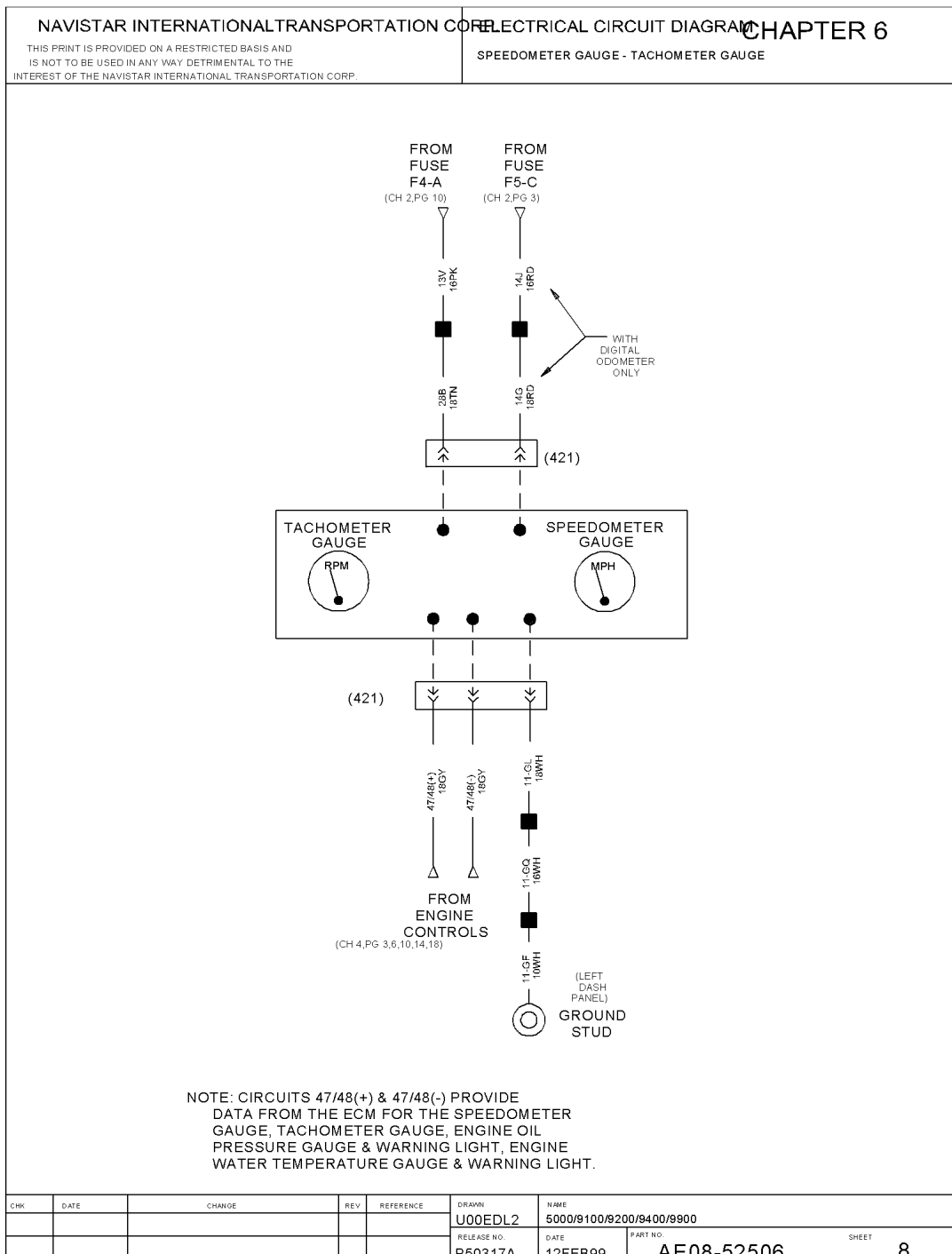


Figure 47 Speedometer Gauge — Tachometer Gauge

8.15. ELECTRIC LOCK — RIGHT AND LEFT, P. 15

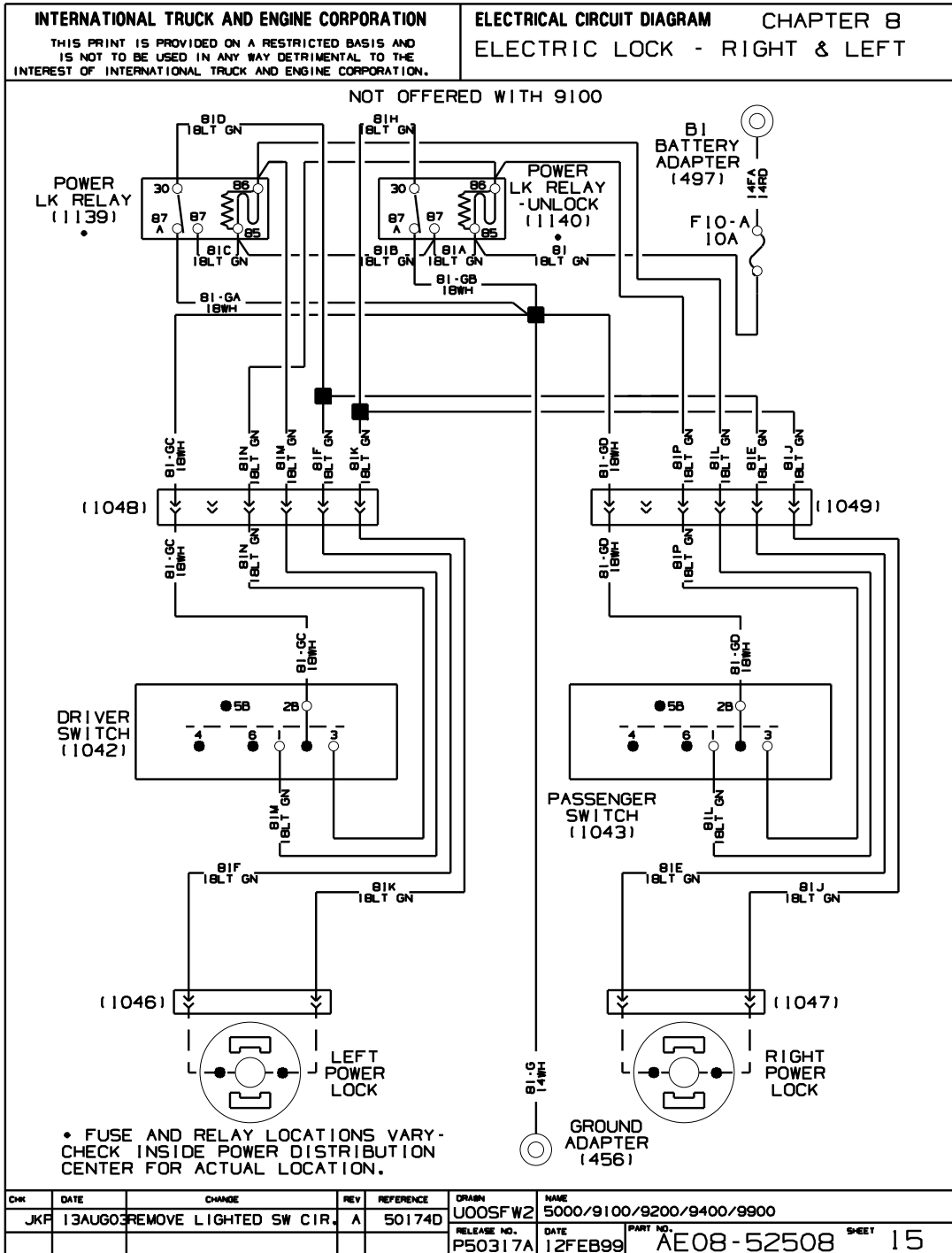


Figure 74 Electric Lock — Right and Left



9.24. ABS6 ADVANCE ECU, W/BENDIX RSP, P. 24

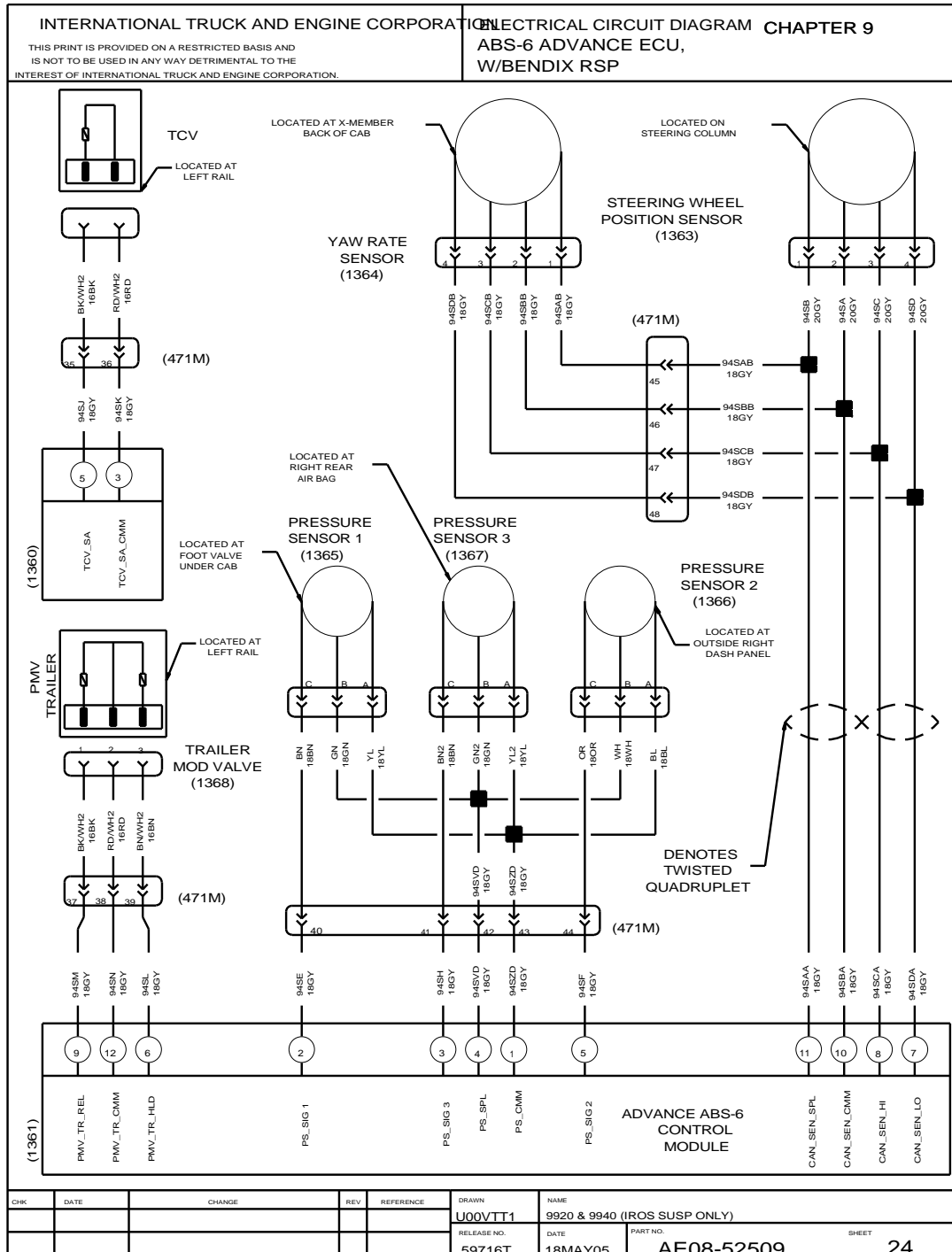


Figure 105 ABS6 Advance ECU, W/Bendix RSP

12.3. HEATER — BUNK AUXILIARY BLOWER, P. 3

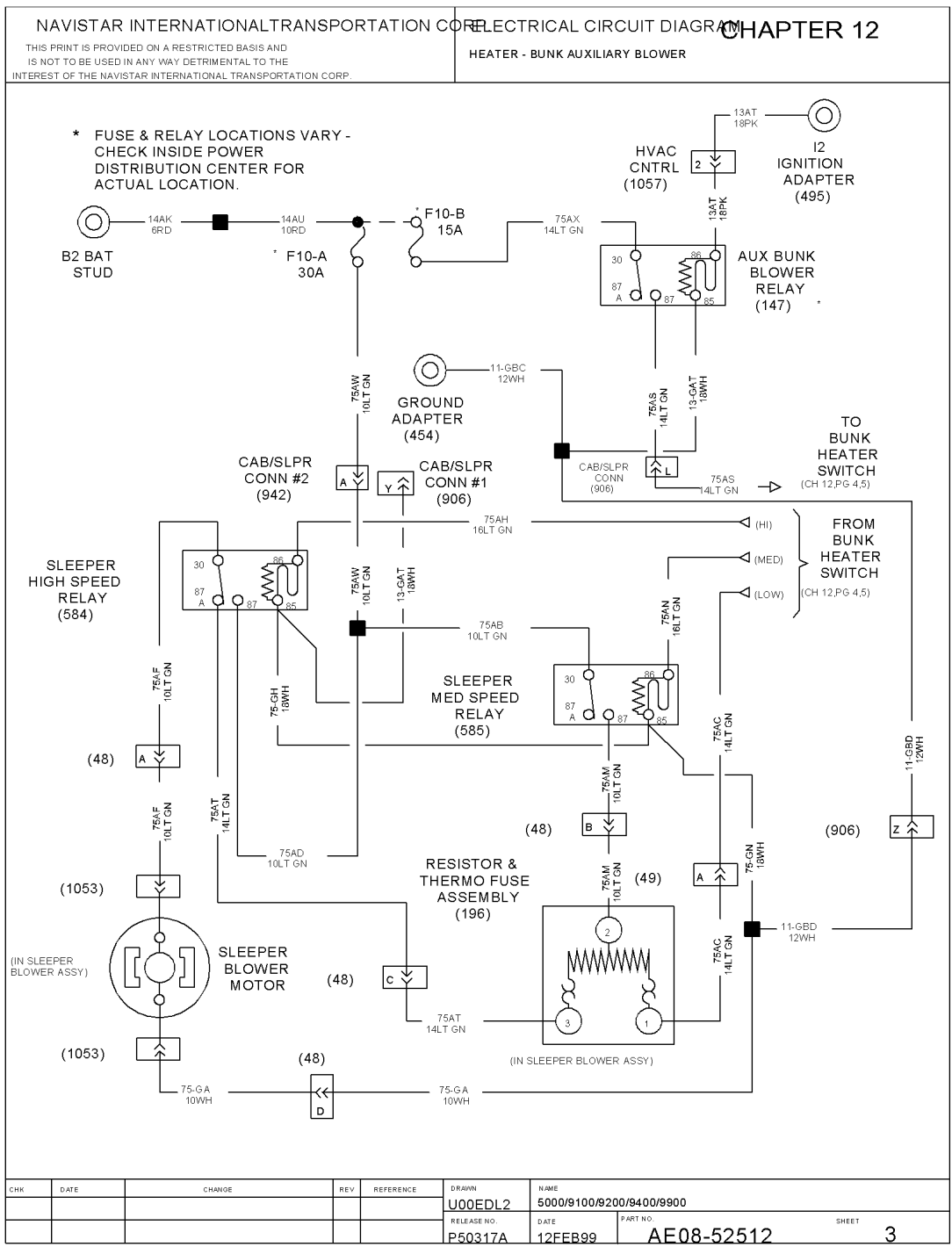


Figure 140 Heater — Bunk Auxiliary Blower

13.5. LEFT GAUGE CLUSTER — TERMINAL INFORMATION, P. 5

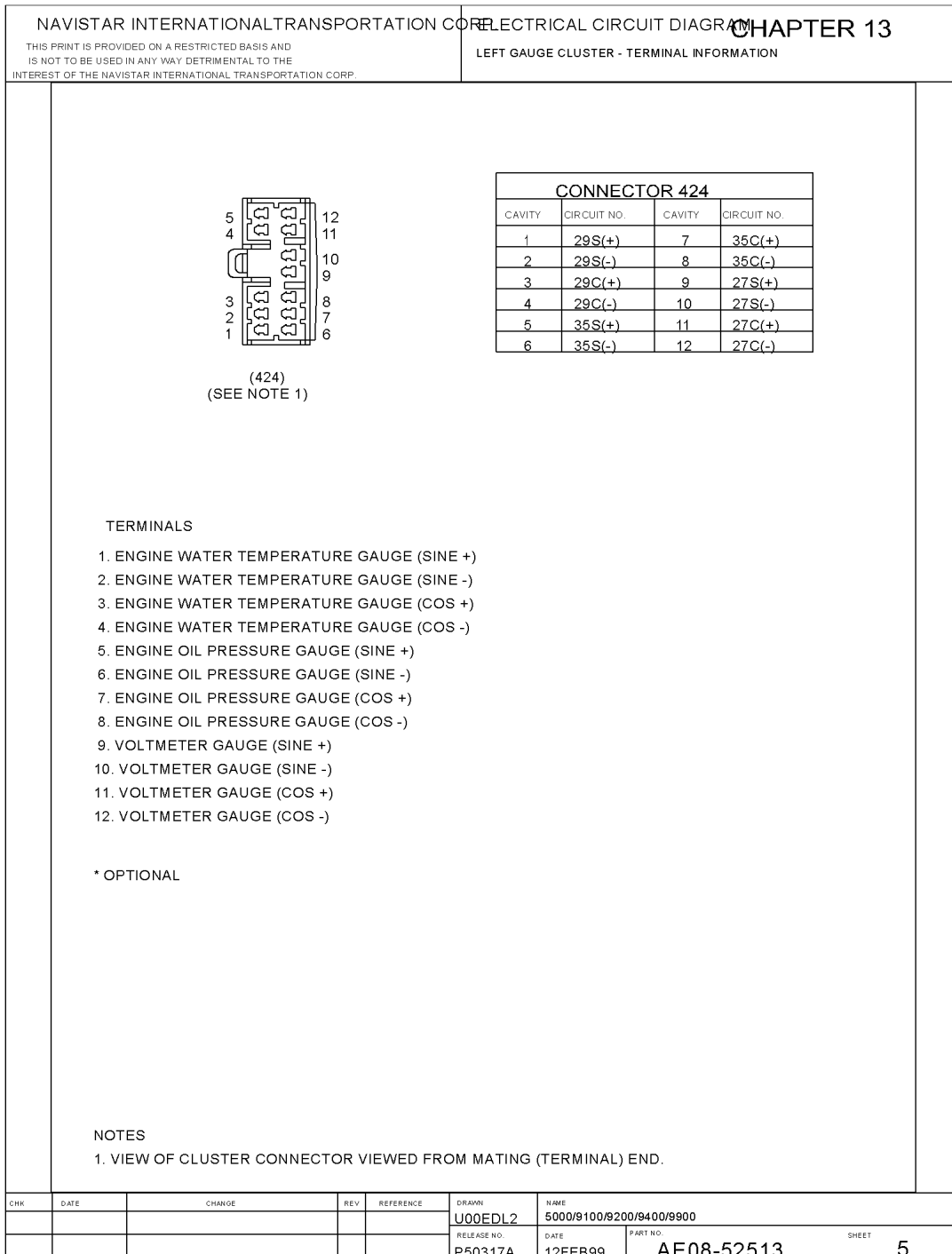
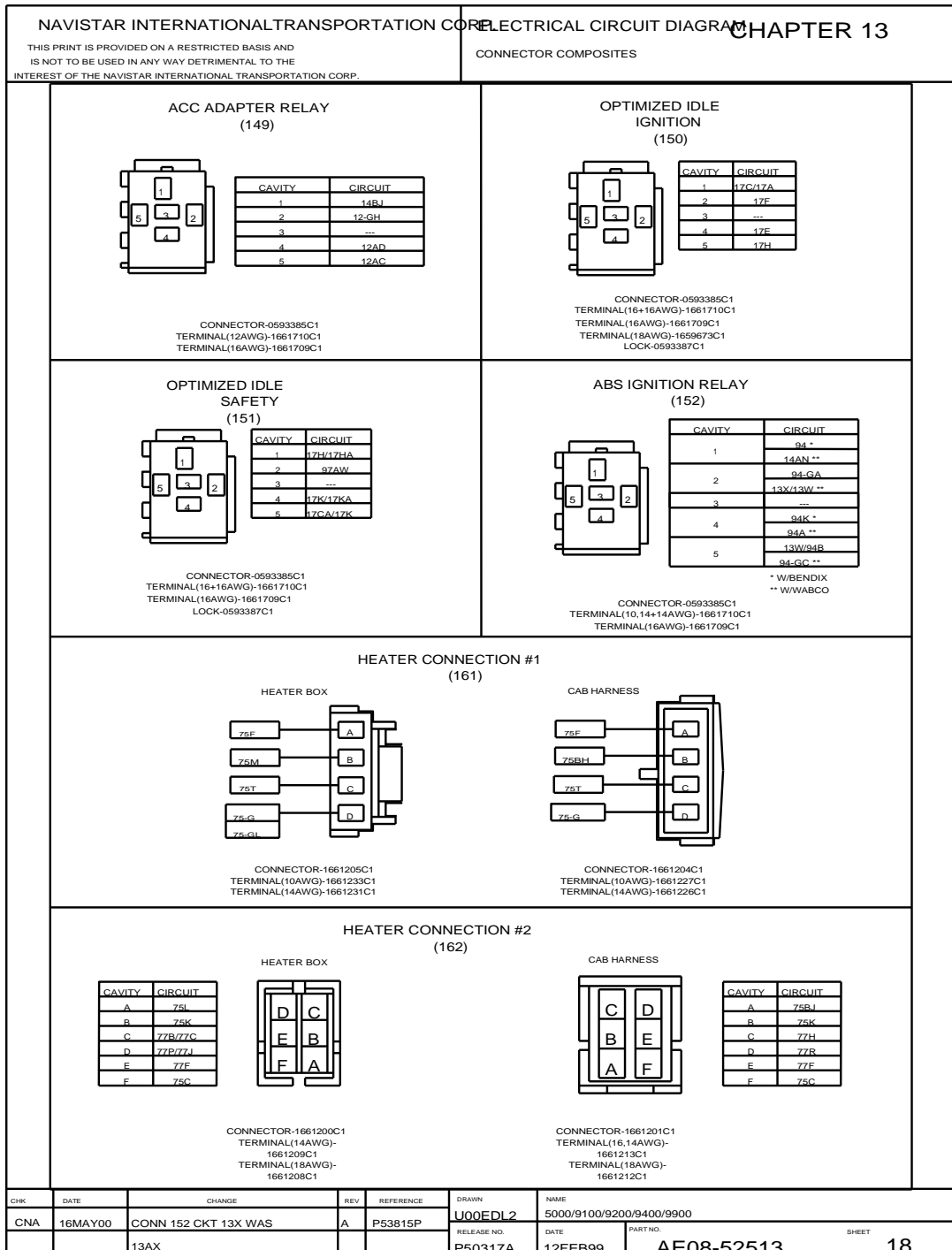


Figure 152 Left Gauge Cluster — Terminal Information

13.18. CONNECTOR COMPOSITES (149), (150), (151), (152), (161), (162), P. 18



13.28. CONNECTOR COMPOSITES (290), (291), (292), (293), (294), (296), P. 28

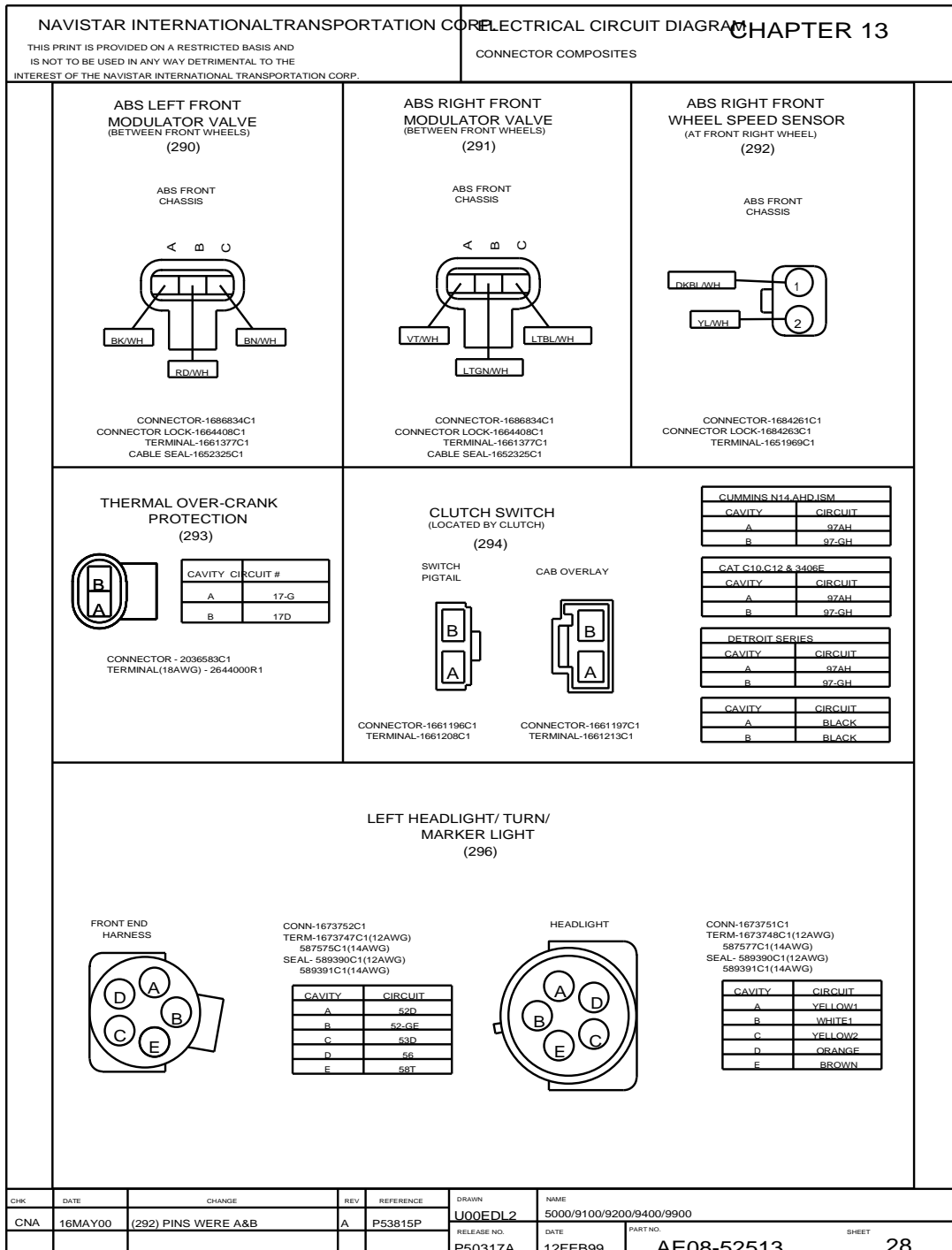


Figure 175 Connector Composites (290), (291), (292), (293), (294), (296)

13.41. CONNECTOR COMPOSITES (462), (463), P. 41

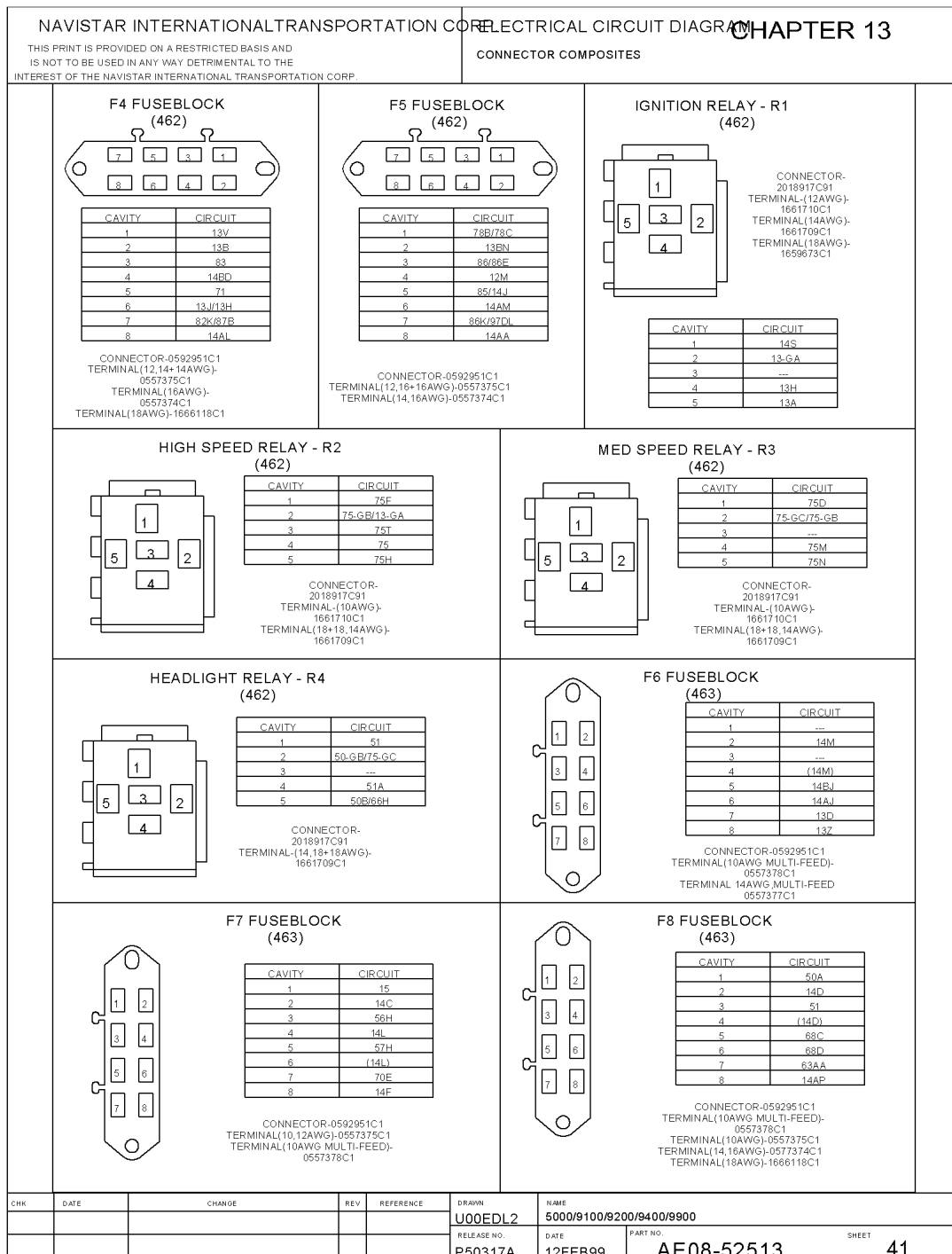


Figure 188 Connector Composites (462), (463)

13.59. CONNECTOR COMPOSITES (791), (823), (851), (854), (884), (885), (887), P. 59

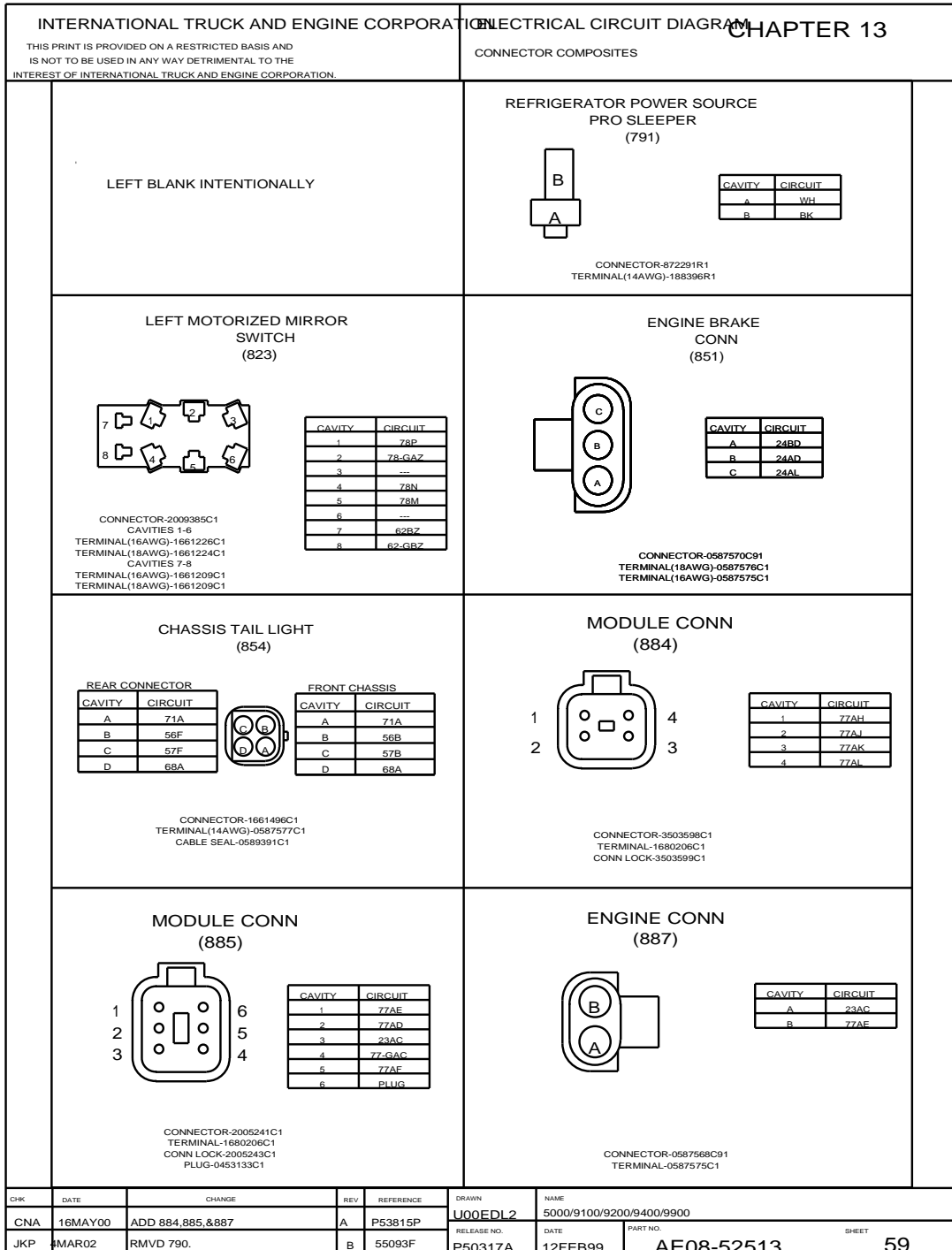


Figure 206 Connector Composites (791), (823), (851), (854), (884), (885), (887)