SERVICE MANUAL SECTION

5500*i*, 5600*i*, 5900*i*, 9200*i*, 9400*i* and 9900*i* Chassis Built December 1, 2005 to February 28, 2007 — ELECTRICAL CIRCUIT DIAGRAMS

Model: 5500i
Start Date: 12/01/2005 End Date: 02/28/2007

Model: 5600i
Start Date: 12/01/2005 End Date: 02/28/2007

Model: 5900i
Start Date: 12/01/2005 End Date: 02/28/2007

Model: 9200i
Start Date: 12/01/2005 End Date: 02/28/2007

Model: 9400i
Start Date: 12/01/2005 End Date: 02/28/2007

Model: 9900i
Start Date: 12/01/2005 End Date: 02/28/2007

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1. INSTRUCTIONS AND CHARTS (CHAPTER 1)

1.1. CIRCUIT IDENTIFICATION CHART, P. 1

INTERNATIONAL TRUCK AND ENGINE CORPORATION

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ELECTRICAL CIRCUIT DIAGRAM CHAPTER 1

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
JKP	4MAR02	ADDED DESC AT 38 & 41.	A	55093F

DRAWN RROEPKE

NAME INSTRUCTIONS AND CHARTS FOR ALL MODELS

RELEASE NO. P52600M

DATE 29JUL98

PART NO. AE08-52011

SHEET 01

Figure 1 Circuit Identification Chart, page 1

1.2. CIRCUIT IDENTIFICATION CHART, P. 2

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ELECTRICAL CIRCUIT DIAGRAM CHAPTER 1

NAVISTAR CIRCUIT NUMBER IDENTIFICATION & COLOR

CIRCUIT NUMBER	DESCRIPTION - COLOR	CIRCUIT NUMBER	DESCRIPTION - COLOR
73	COLLISION AVOIDANCE SYSTEM - LIGHT BLUE	87	WINDSHIELD WASHER - GRAY
74		88	CLOCK/HOURMETER - LIGHT GREEN
75	HEATER BLOWER MOTOR - LIGHT GREEN	89	
76	AUXILIARY FAN - LIGHT GREEN	90	HYDRAULIC BRAKE PUMP - GRAY
77	AIR CONDITIONER - LIGHT GREEN	91	INTERCOMMUNICATIONS - VIOLET
78	MIRRORS - HEATED * MOTORIZED - LIGHT GREEN	92	TRANSMISSION (ELECTRONIC) - TAN
79	SEAT BELTS - LIGHT GREEN	93	AXLE SHIFT CONTROL - TAN
80		94	ANTILOCK BRAKES - GRAY
81	POWER DOOR LOCKS - LIGHT GREEN	95	EXHAUST EMISSION - TAN
82	WINDSHIELD WIPERS - GRAY	96	SNOW PLOW LIGHTS - YELLOW
83	POWER WINDOW - LIGHT GREEN	97	CRUISE CONTROL AND ELECTRONIC ENGINE - VIOLET
84	CIGAR LIGHTER - LIGHT GREEN	98	DATA LINK AND DIAGNOSTICS - BLACK
85	HORN - ELECTRIC - GRAY	99	THROTTLE POSITION SENSOR - VIOLET
86	RADIO - ENTERTAINMENT - LIGHT GREEN		

* NOTE:

NOT ALL CIRCUITS MAY BE USED.

COLORS ABOVE ARE NEW STD COLORS FOR MAJOR HARNESSES.

CHK	DATE	CHANGE	REV	REFERENCE
JPM	10DEC01	GSC2 ADDED CIR 73 DESC	A	P53583S
JKP	4MAR02	ADDED SEAT BELTS.	B	55093F

DRAWN RROEPKE

NAME INSTRUCTIONS AND CHARTS FOR ALL MODELS

RELEASE NO. P52600M

DATE 29JUL98

PART NO. AE08-52011

SHEET 02

Figure 2 Circuit Identification Chart, page 2

1.3. CIRCUIT DIAGRAM INSTRUCTIONS, P. 3

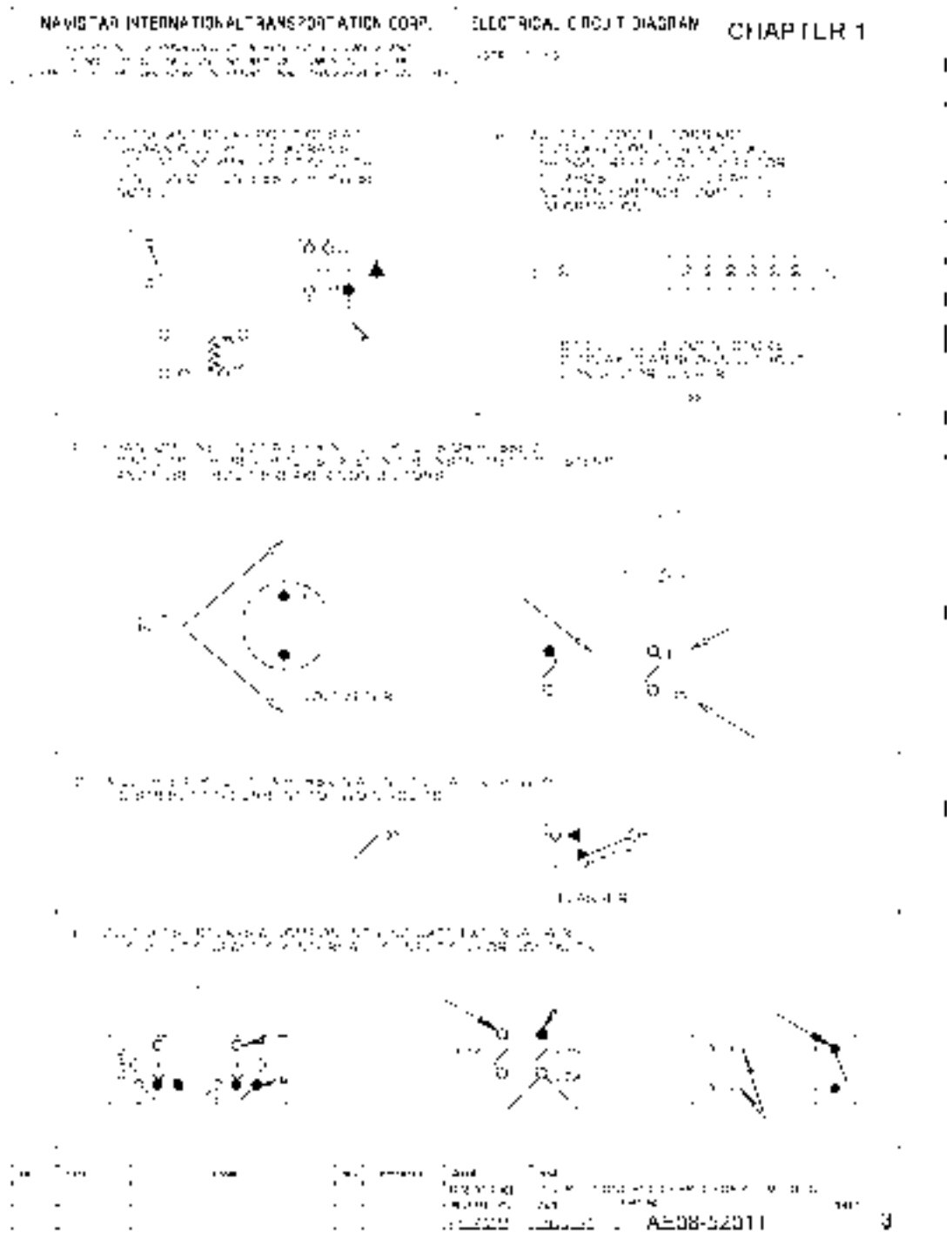

Figure 3 Circuit Diagram Instructions, page 3

1.4. CIRCUIT DIAGRAM INSTRUCTIONS, P. 4

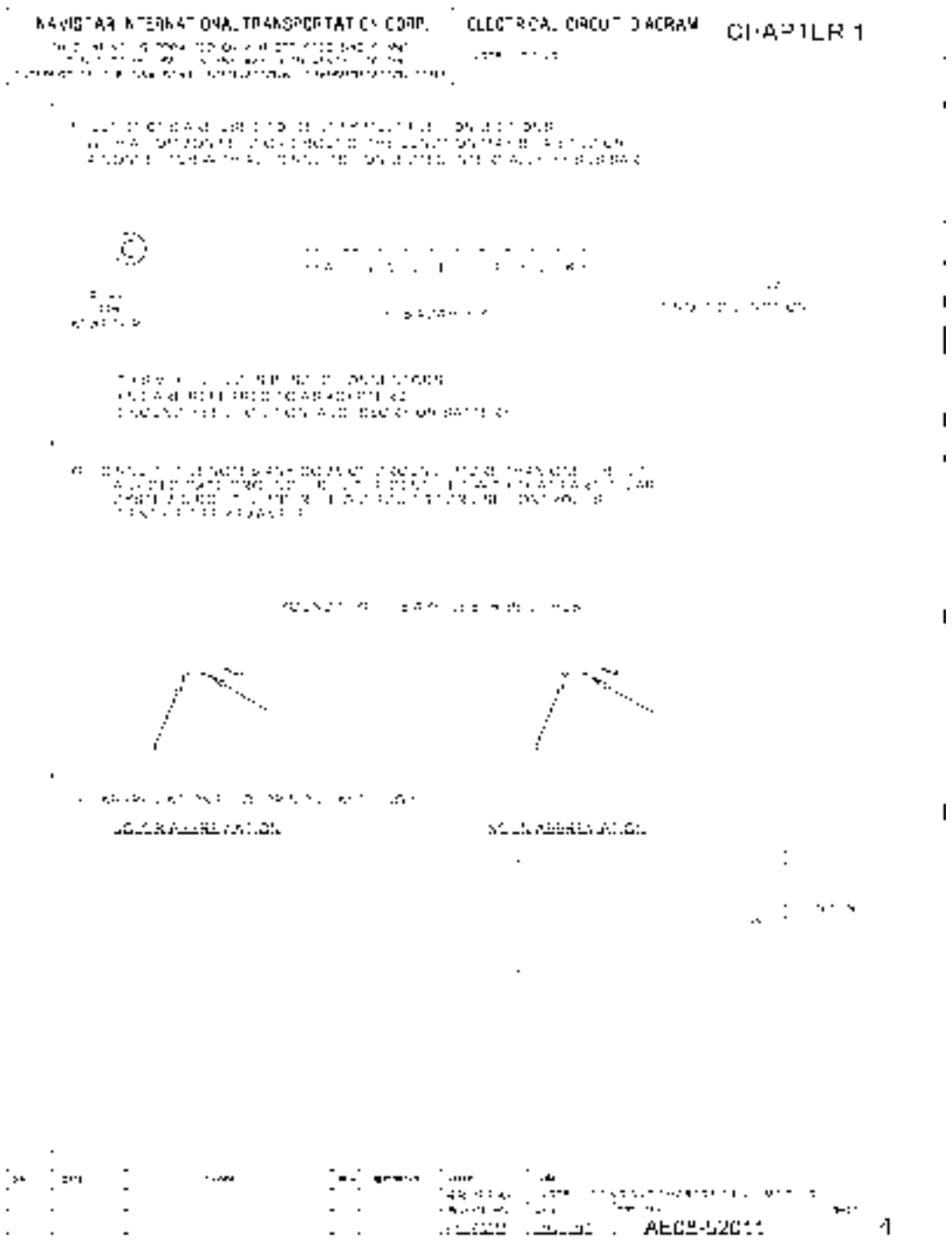

Figure 4 Circuit Diagram Instructions, page 4

1.5. SCHEMATIC SYMBOLS, P. 5

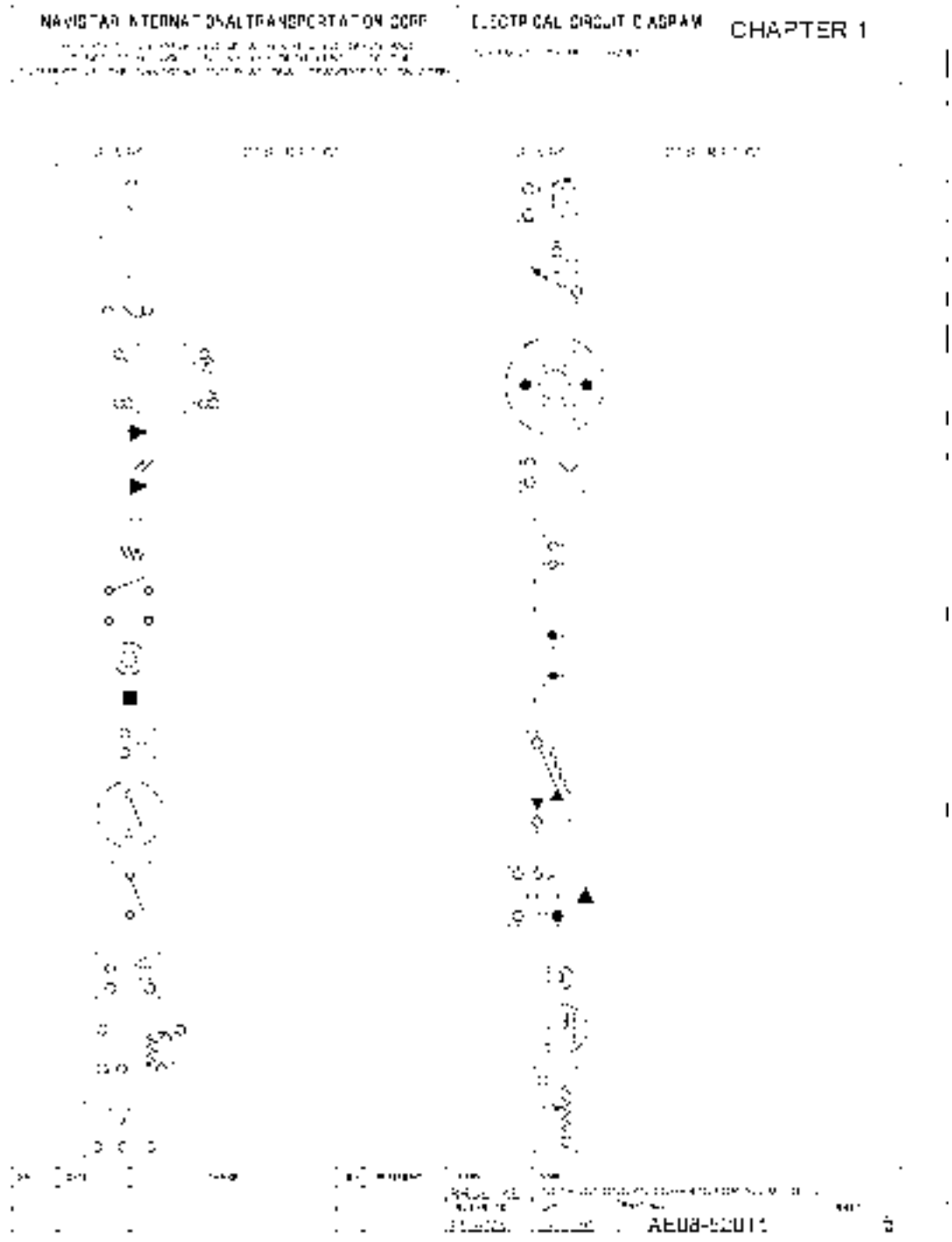

Figure 5 Schematic Symbols

1.6. RELAY PINOUT, FUNCTION DATA AND SEALED RELAY, P. 6

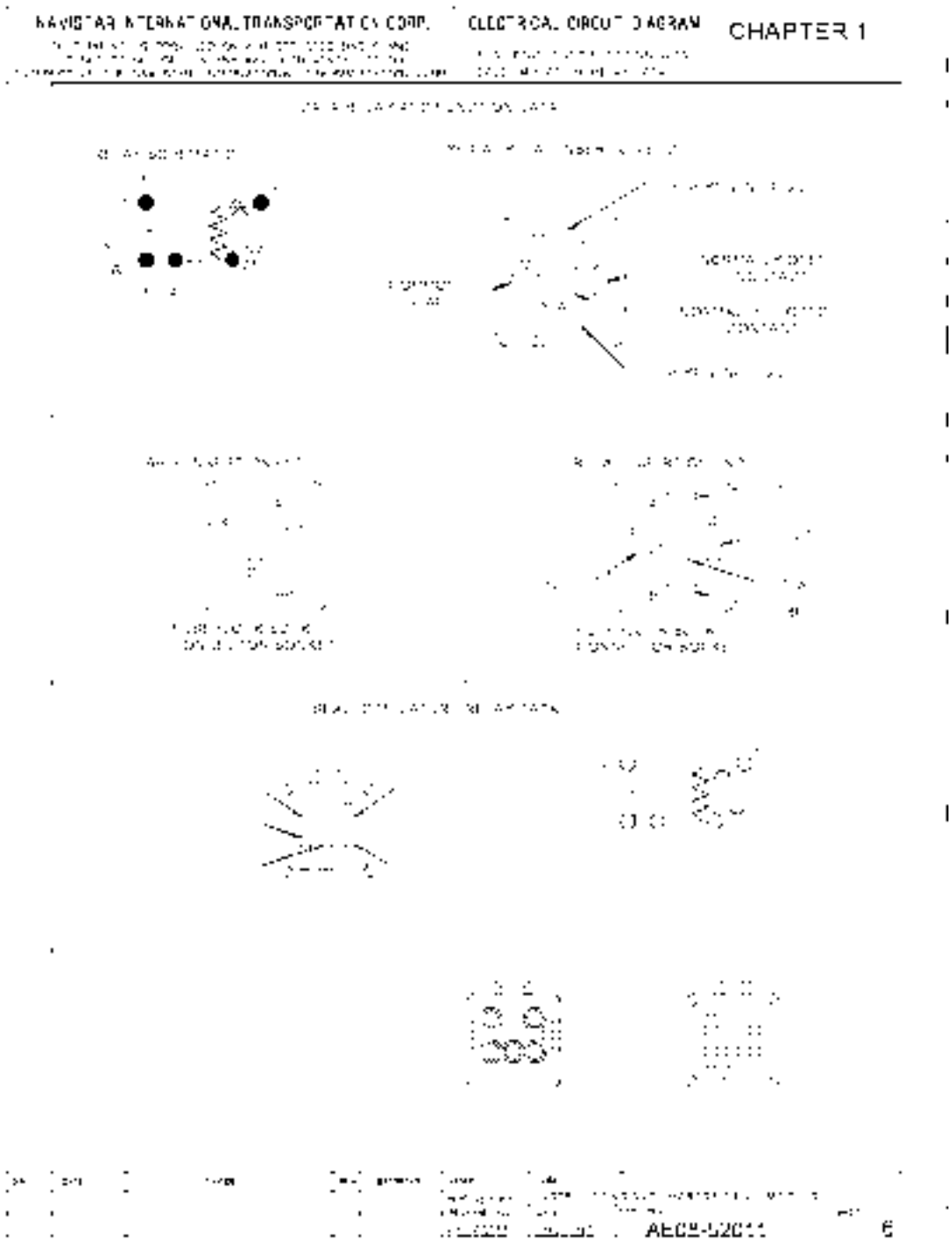

Figure 6 Relay Pinout, Function Data and Sealed Relay

1.7. LAMP BULB CHART, P. 7

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ELECTRICAL CIRCUIT DIAGRAM CHAPTER 1

LAMP BULB CHART

BULB APPLICATION	WATTS OR CANDLEPOWER	TRADE NUMBER
AIR RESTRICTION GAUGE	2 CANDLEPOWER	57
BACK-UP LIGHTS	32 CANDLEPOWER	1156
CIGAR LIGHTER	1 CANDLEPOWER	1455
CLOCK - ANALOG	2 WATTS	VDO-600 802
CLEARANCE/IDENTIFICATION LIGHTS - SMALL	2 CANDLEPOWER	194
CLEARANCE/IDENTIFICATION LIGHTS - LARGE	4 CANDLEPOWER	904
COURTESY LIGHT	21 CANDLEPOWER	1142
DOME LIGHT	21 CANDLEPOWER	1142
EXTERIOR MIRROR LIGHT	2 CANDLEPOWER	1895
FOG LIGHT	100 WATTS	4921-1
FRONT TURN SIGNAL		
9200/9400/9900	32/3 CANDLEPOWER	3157
HEADLIGHTS		
9200/9400/9900 INCANDESCENT		
HIGH/LOW BEAMS	65/35 WATTS	6053
HALOGEN (OPTIONAL)		
HIGH/LOW BEAM	65/35 WATTS	H5054
HEATER AND AIR CONDITIONER CONTROLS	3 CANDLEPOWER	168
HIGH BEAM INDICATOR	0.5 CANDLEPOWER	37
INSTRUMENT CLUSTER		
ILLUMINATION LIGHT	1 CANDLEPOWER	161
WARNING LIGHT	0.5 CANDLEPOWER	37
READING LIGHT	15 CANDLEPOWER	1003
SIDE TURN SIGNAL - 9200/9400/9900	32/3 CANDLEPOWER	3157
SPEEDOMETER	1 CANDLEPOWER	161
SPOTLIGHT	30 WATTS	4405
STOP-TAIL-TURN SIGNAL	32/3 CANDLEPOWER	1157
TACHOMETER	1 CANDLEPOWER	161
TURN SIGNAL INDICATOR	0.5 CANDLEPOWER	37
WORK LIGHT	35 WATTS	4411
SLEEPER		
DOME LIGHT	15 WATTS	F15T8-CW
LUGGAGE COMPARTMENT LIGHT	12 CANDLEPOWER	211-2
READING LIGHT	12 CANDLEPOWER	912
OVERHEAD CABINET LIGHT	12 CANDLEPOWER	211-2
TV/VCR & MICROWAVE CABINET LIGHT	12 CANDLEPOWER	211-2

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
JKP	4MAR02	ADDED & EDITED SLPR ITEMS	A	55093F	RROEPKE	INSTRUCTIONS AND CHARTS FOR ALL MODELS
					RELEASE NO. P52600M	DATE 29JUL98

PART NO. AE08-52011 SHEET 07

Figure 7 Lamp Bulb Chart

2. 12 VOLT POWER DISTRIBUTION CIRCUIT DIAGRAMS (CHAPTER 2)

2.1. START FEED, P. 1

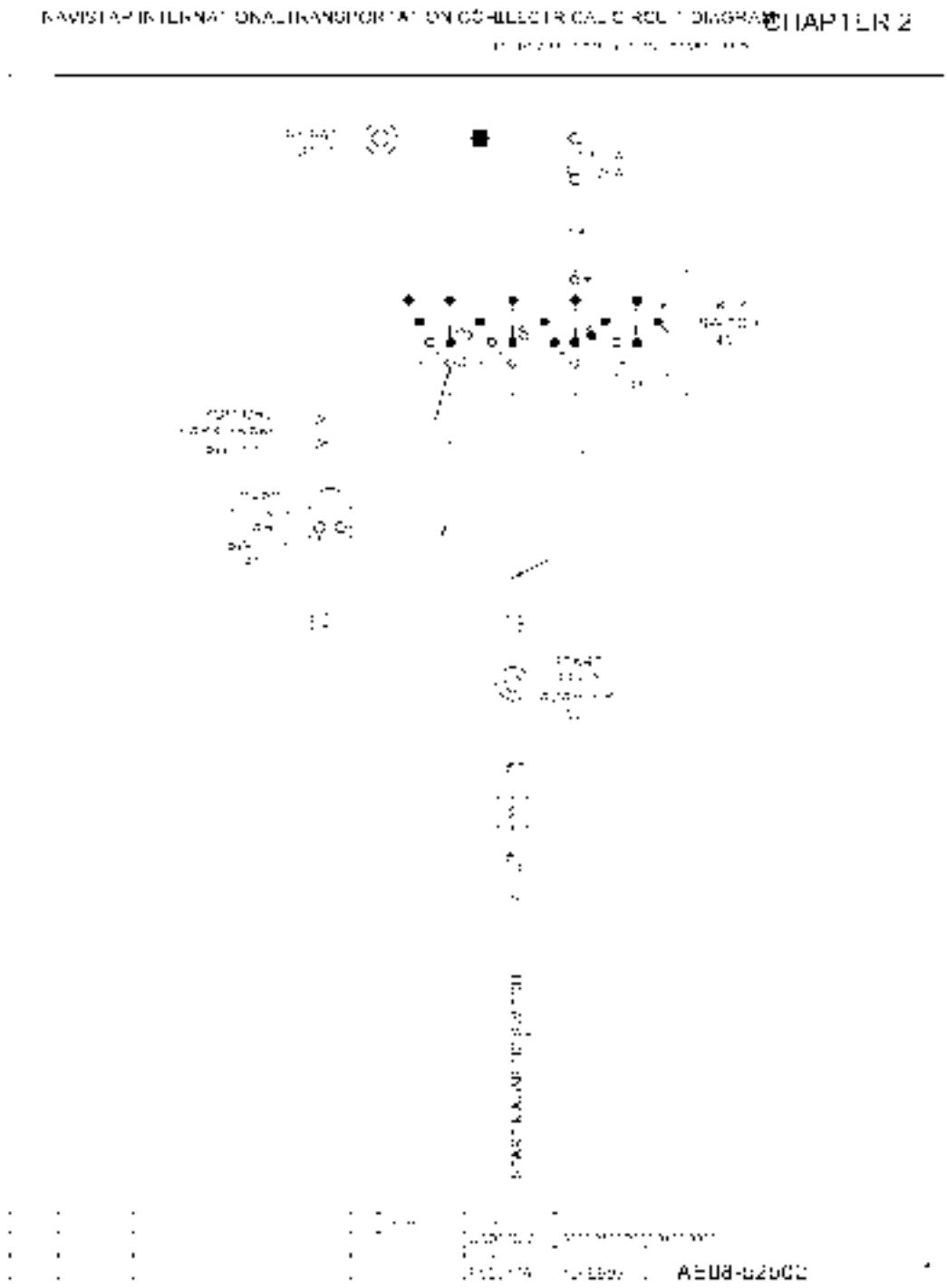

Figure 8 Start Feed

2.2. ACCESSORY, P. 2

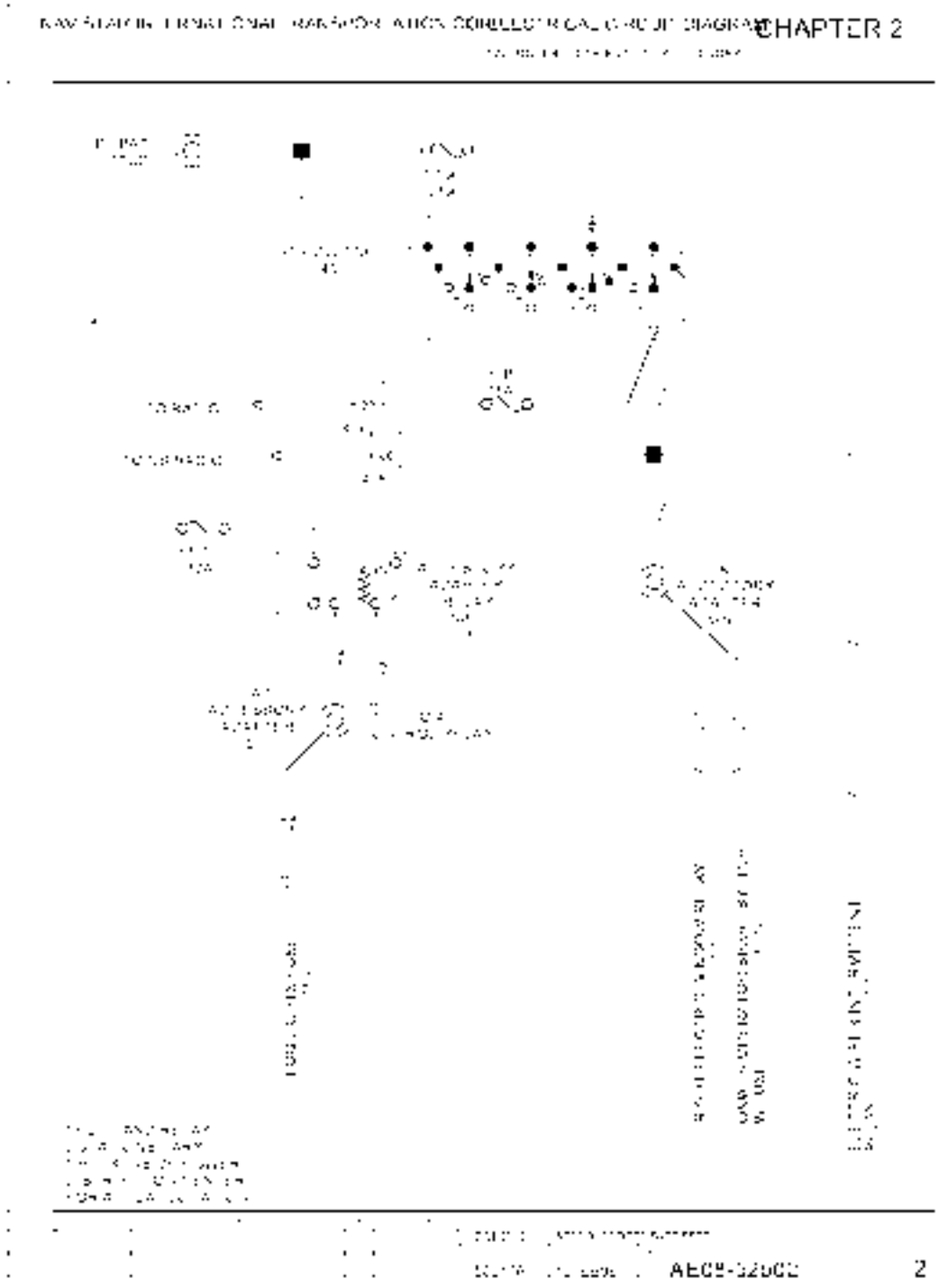

Figure 9 Accessory

2.3. BATTERY, P. 3

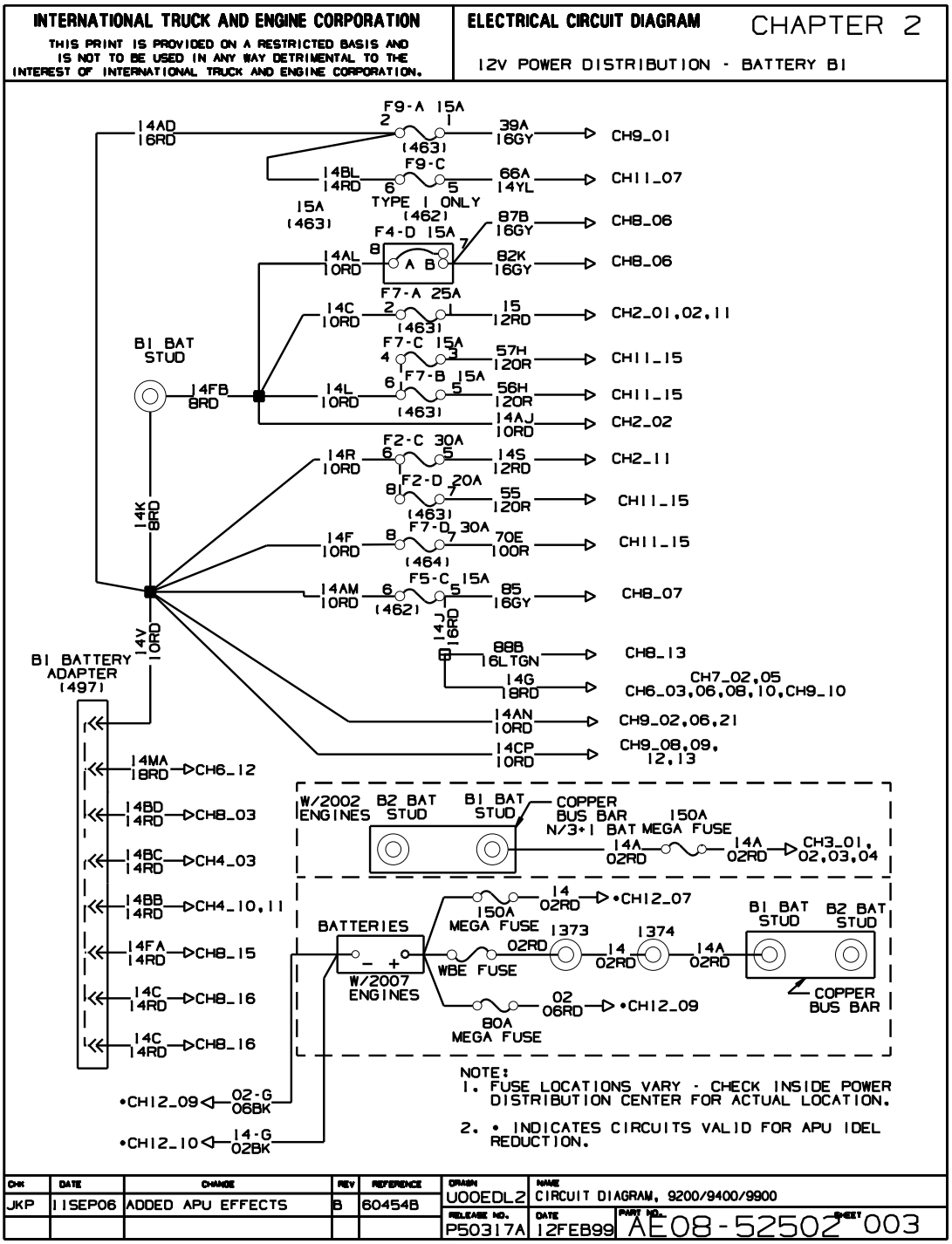

Figure 10 Battery, B1

2.4. BATTERY, B2, P. 4

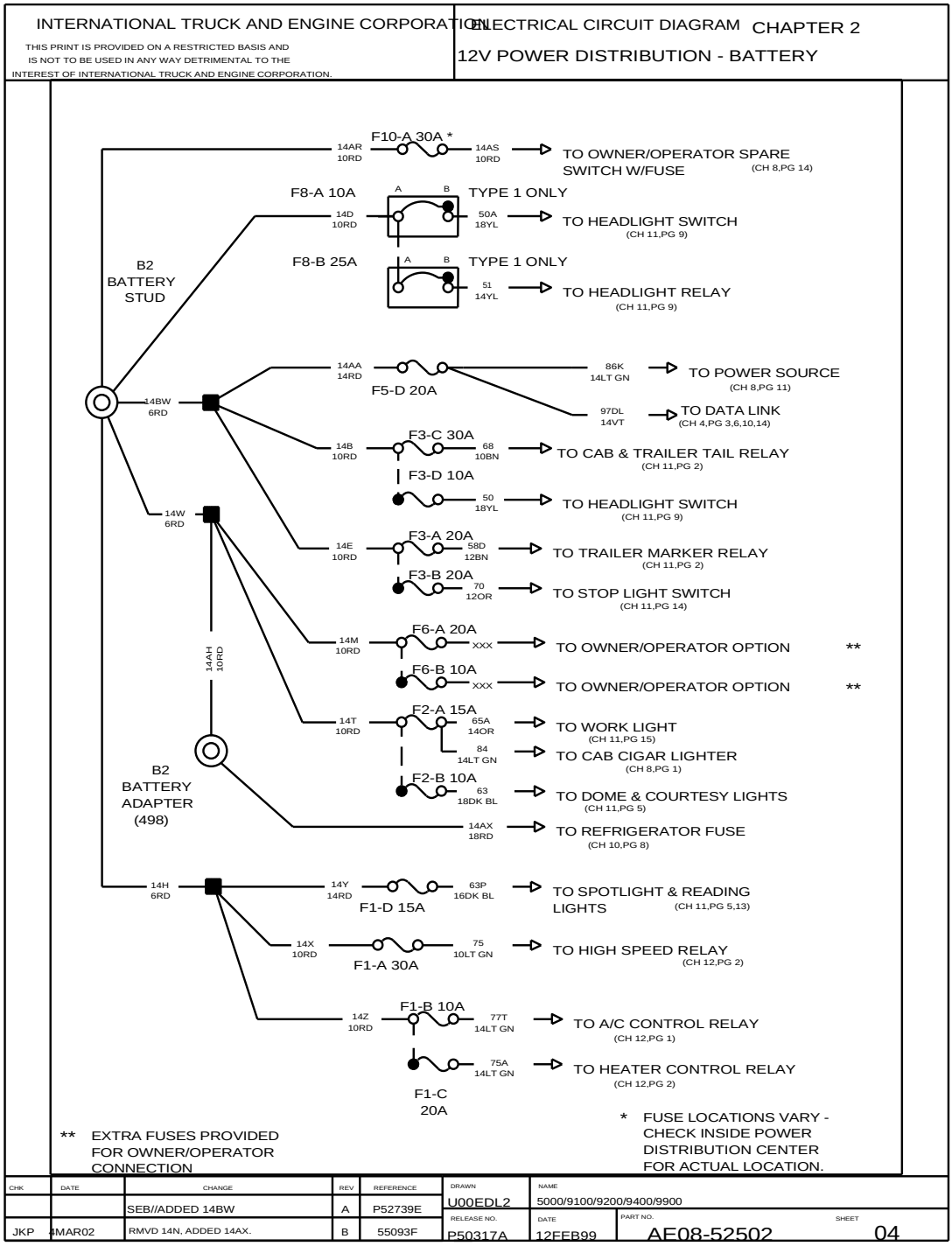

Figure 11 Battery, B2

2.5. BATTERY, B2 (CONT.), P. 5

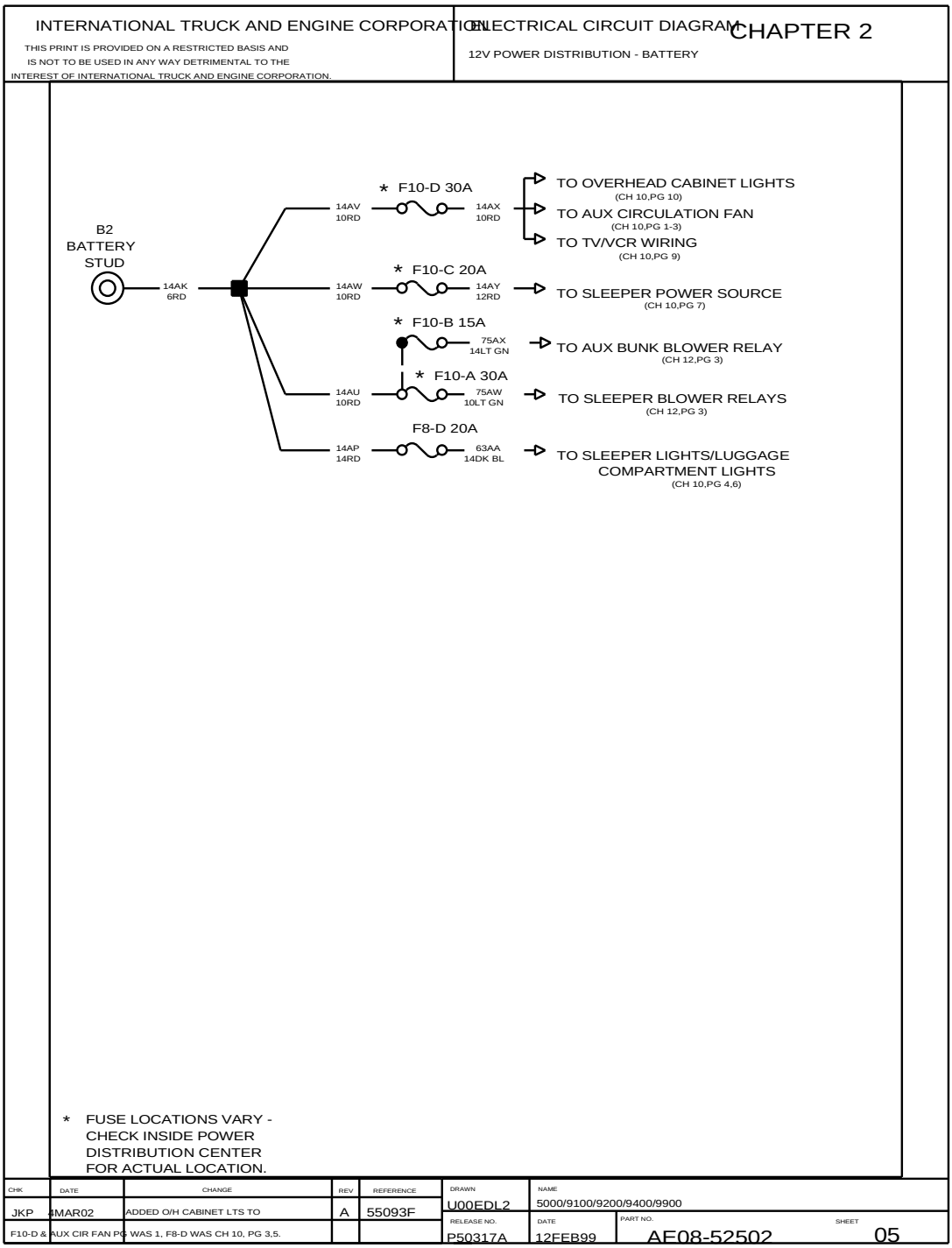

Figure 12 Battery, B2 (cont.)

2.6. 3+1 BATTERY SYSTEM, P. 6

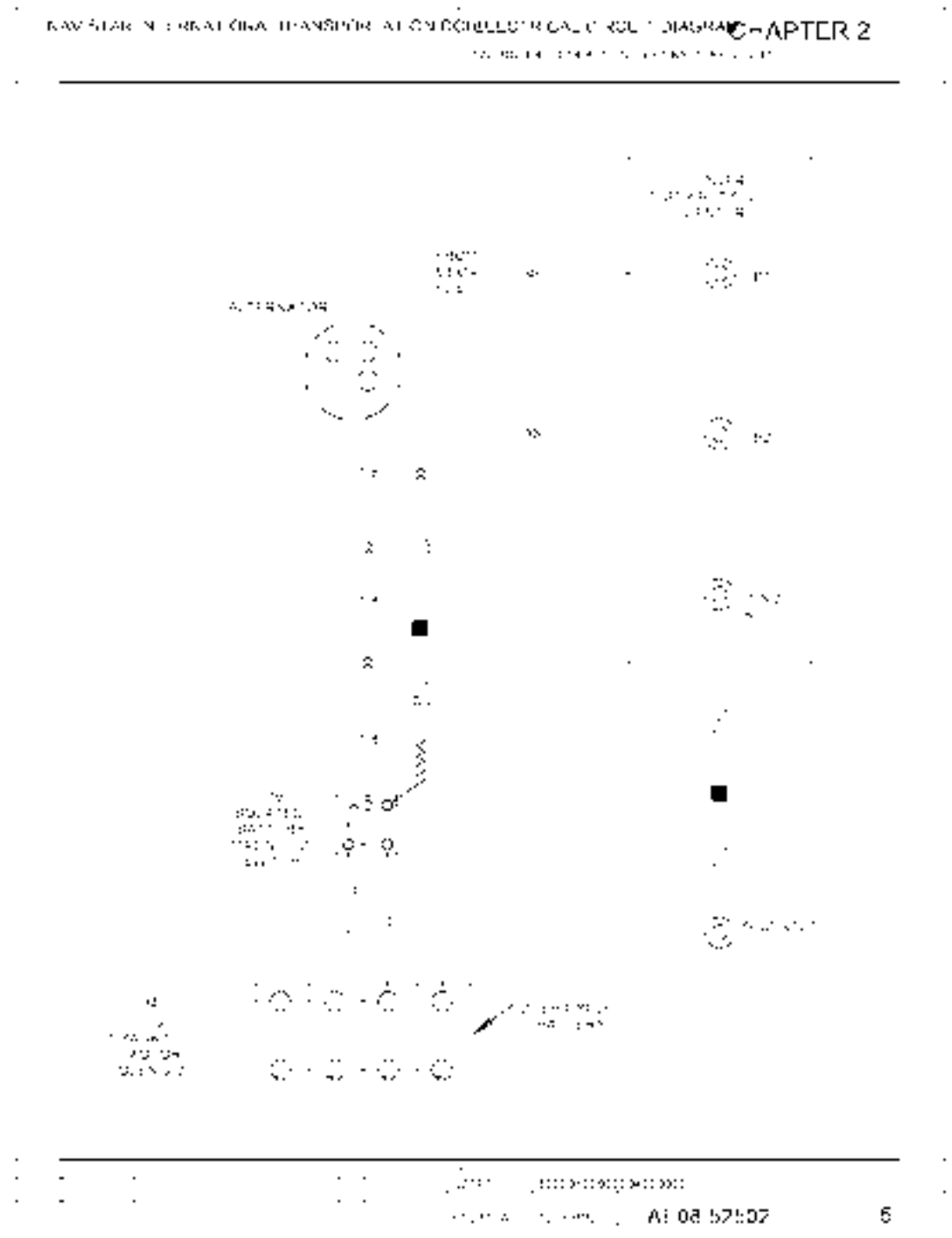

Figure 13 3+1 Battery System

2.7. GROUND ADAPTER COMPOSITE, P. 7

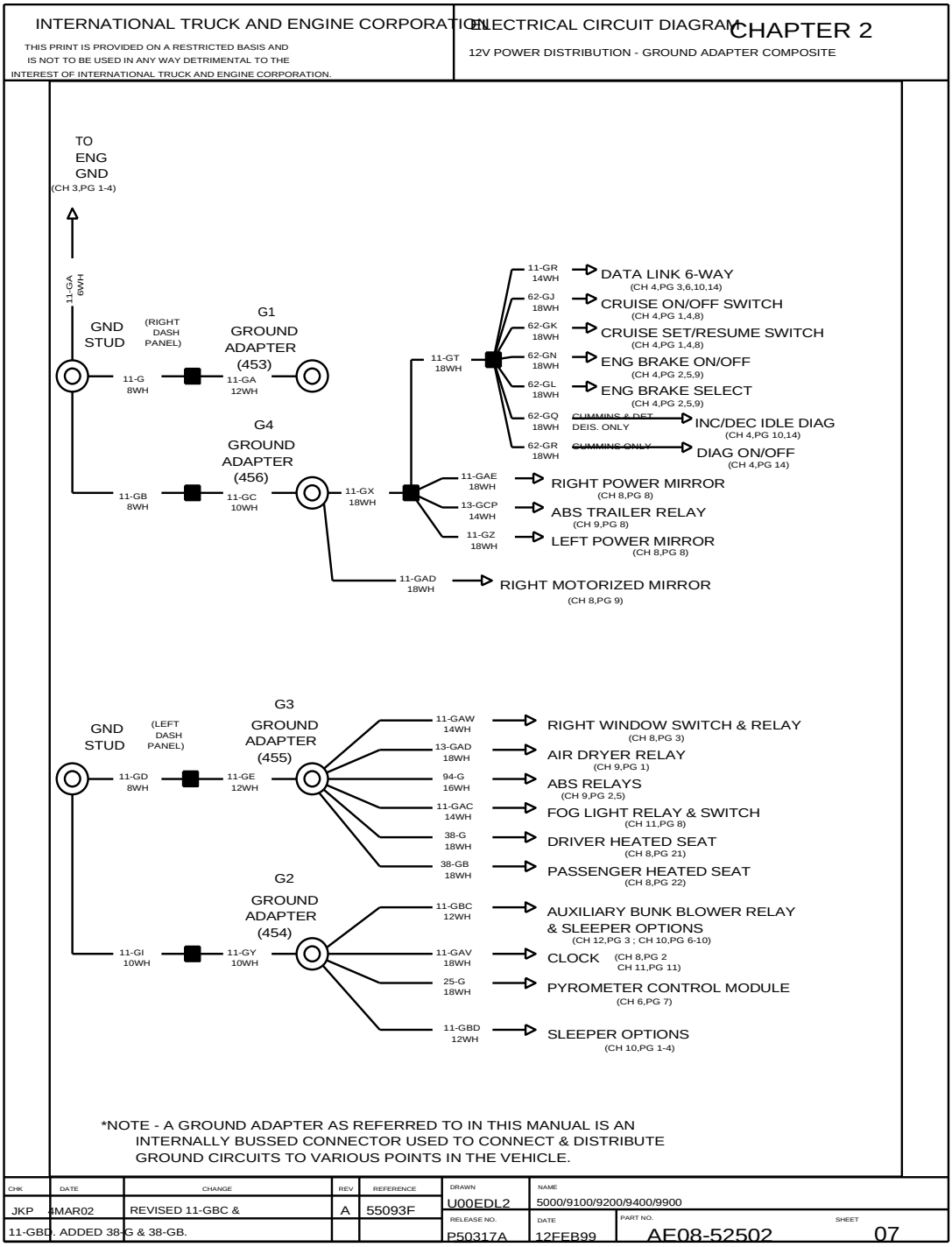

Figure 14 Ground Adapter Composite

2.8. GROUND STUD COMPOSITE, P. 8

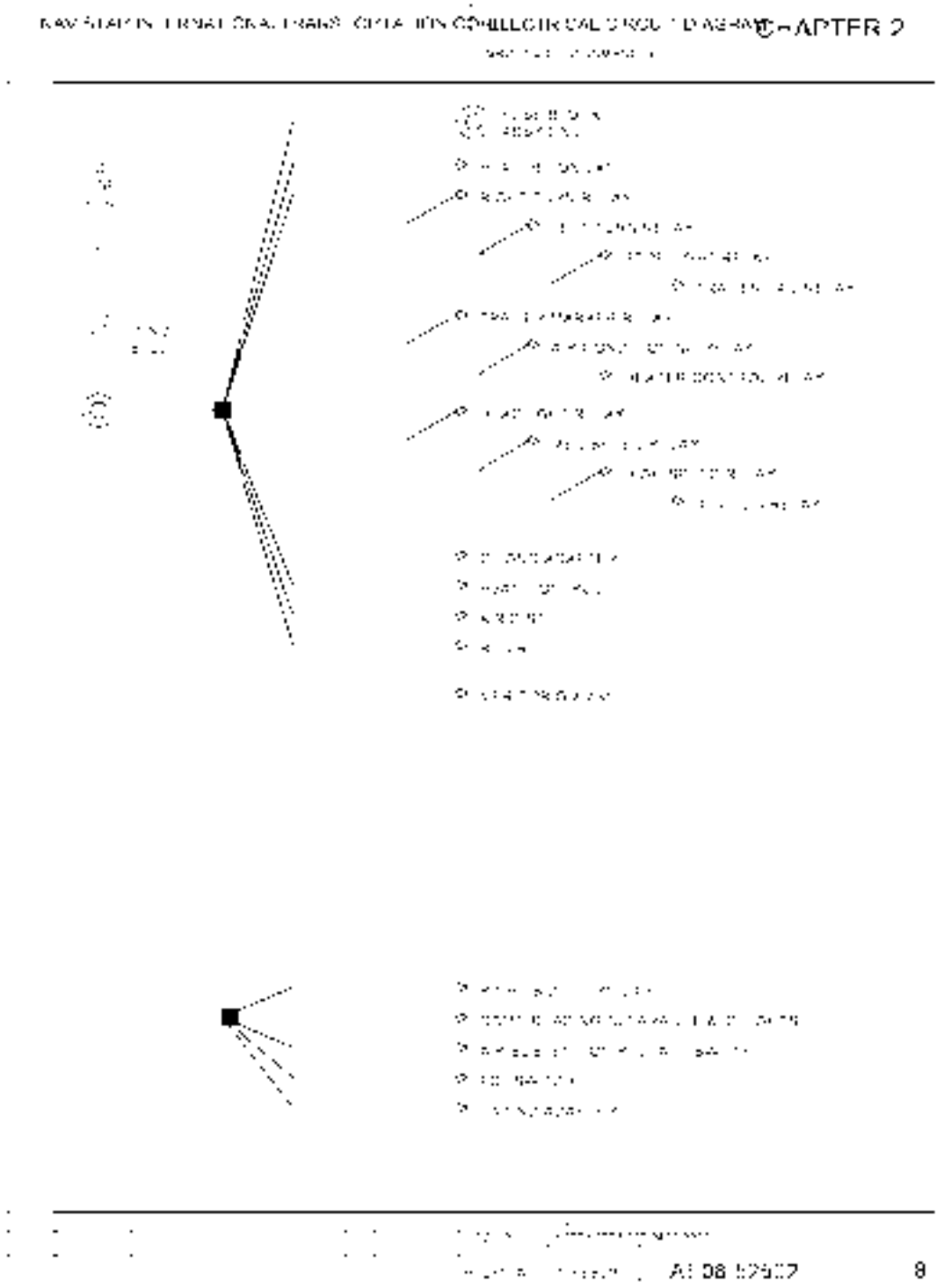

Figure 15 Ground Stud Composite

2.9. GROUND STUD COMPOSITE, P. 9

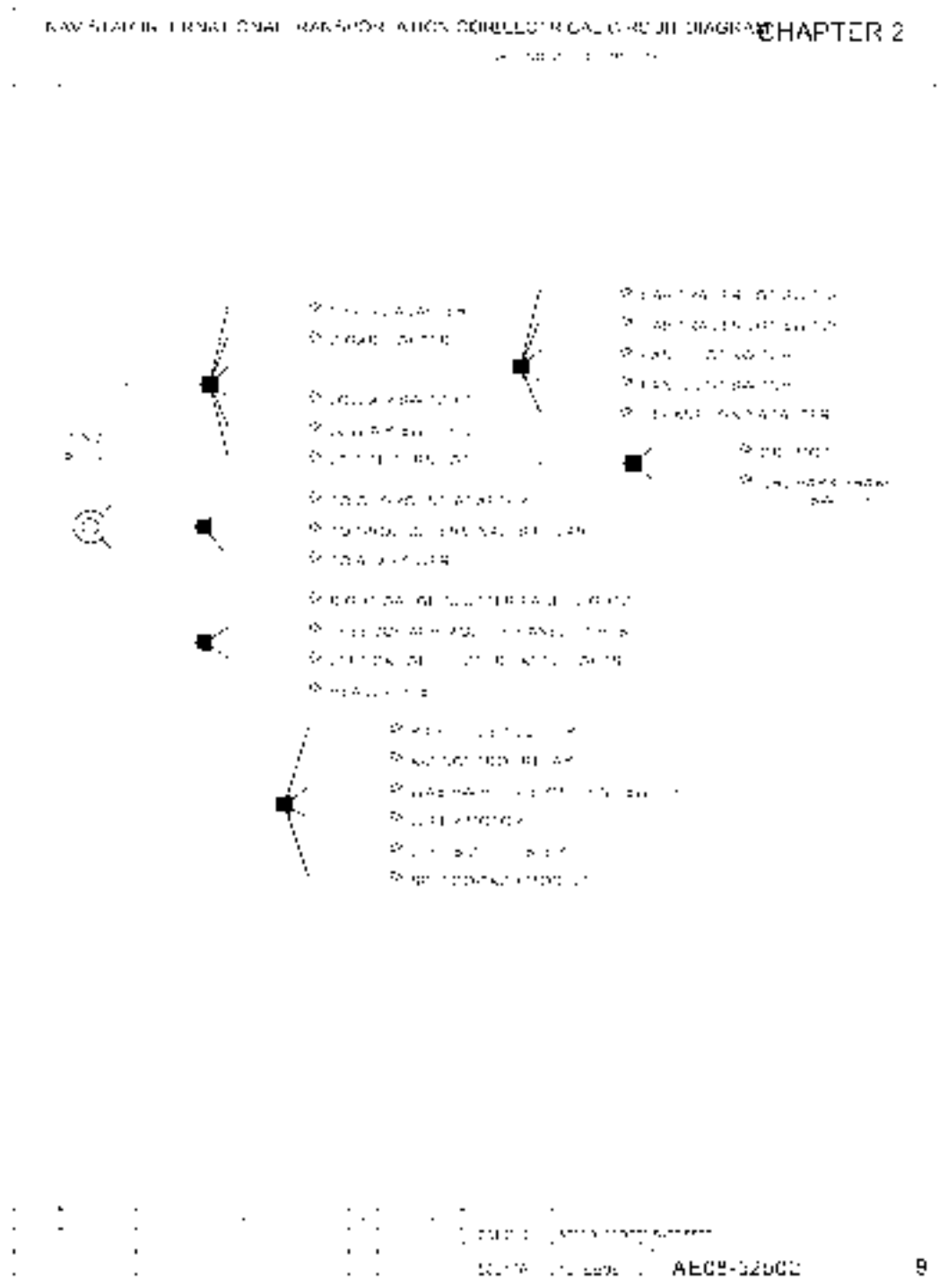

Figure 16 Ground Stud Composite

2.10. IGNITION, P. 10

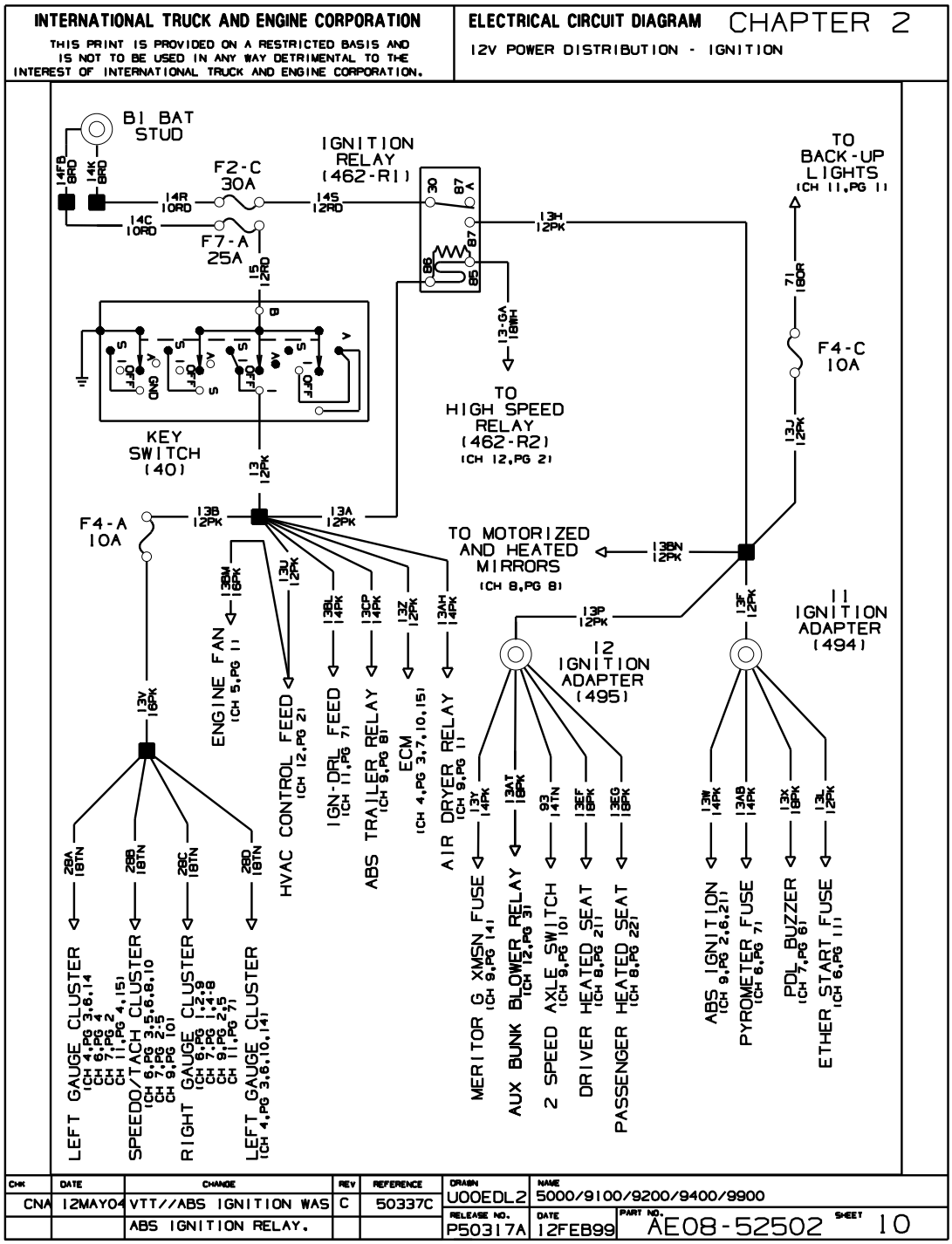

Figure 17 Ignition

2.11. PANEL LIGHTS ADAPTER COMPOSITE, P. 11

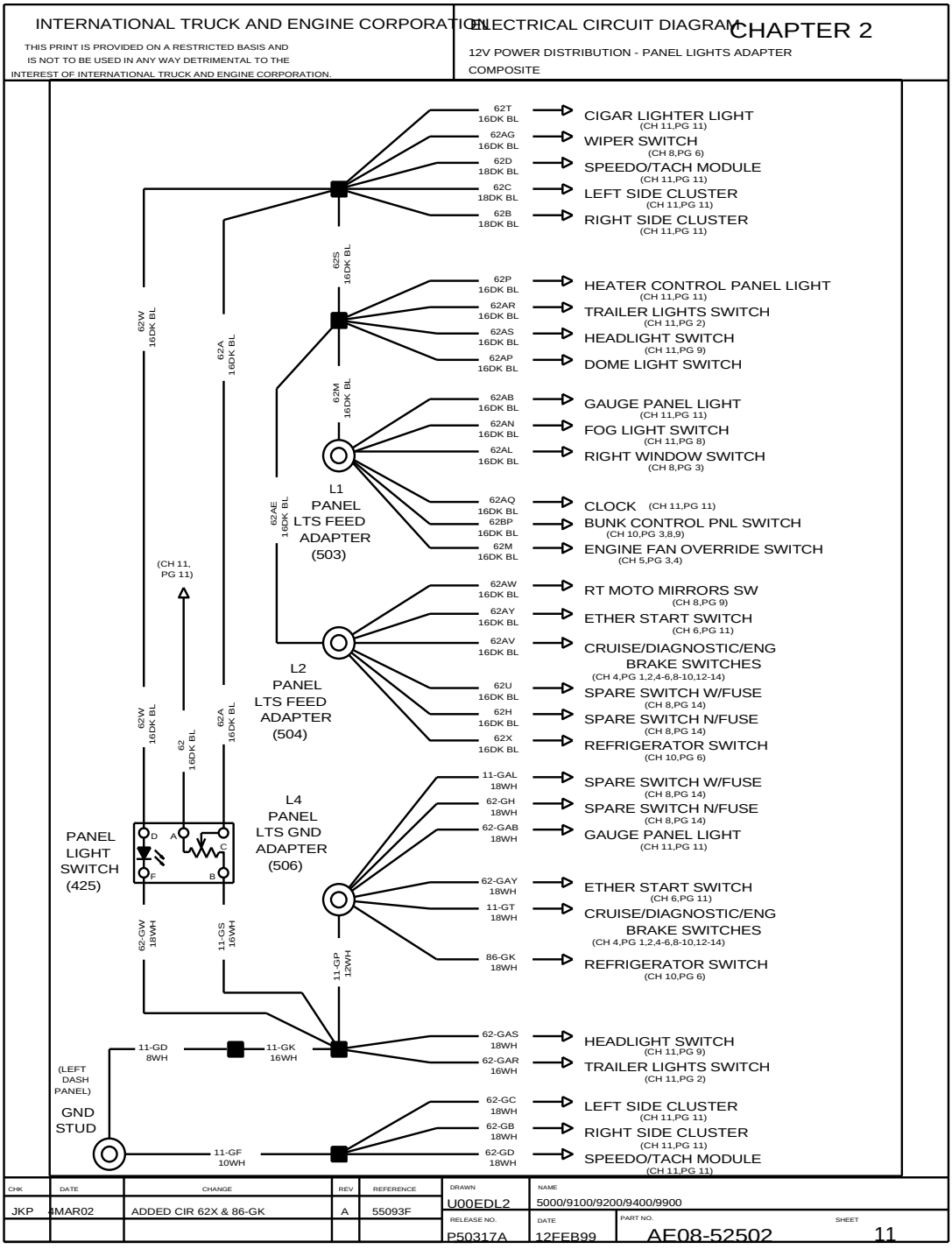

Figure 18 Panel Lights Adapter Composite

3. 12 VOLT CHARGING AND CRANKING SYSTEM (CHAPTER 3)

3.1. W/CAT AND CUMMINS ENGINES, P. 1

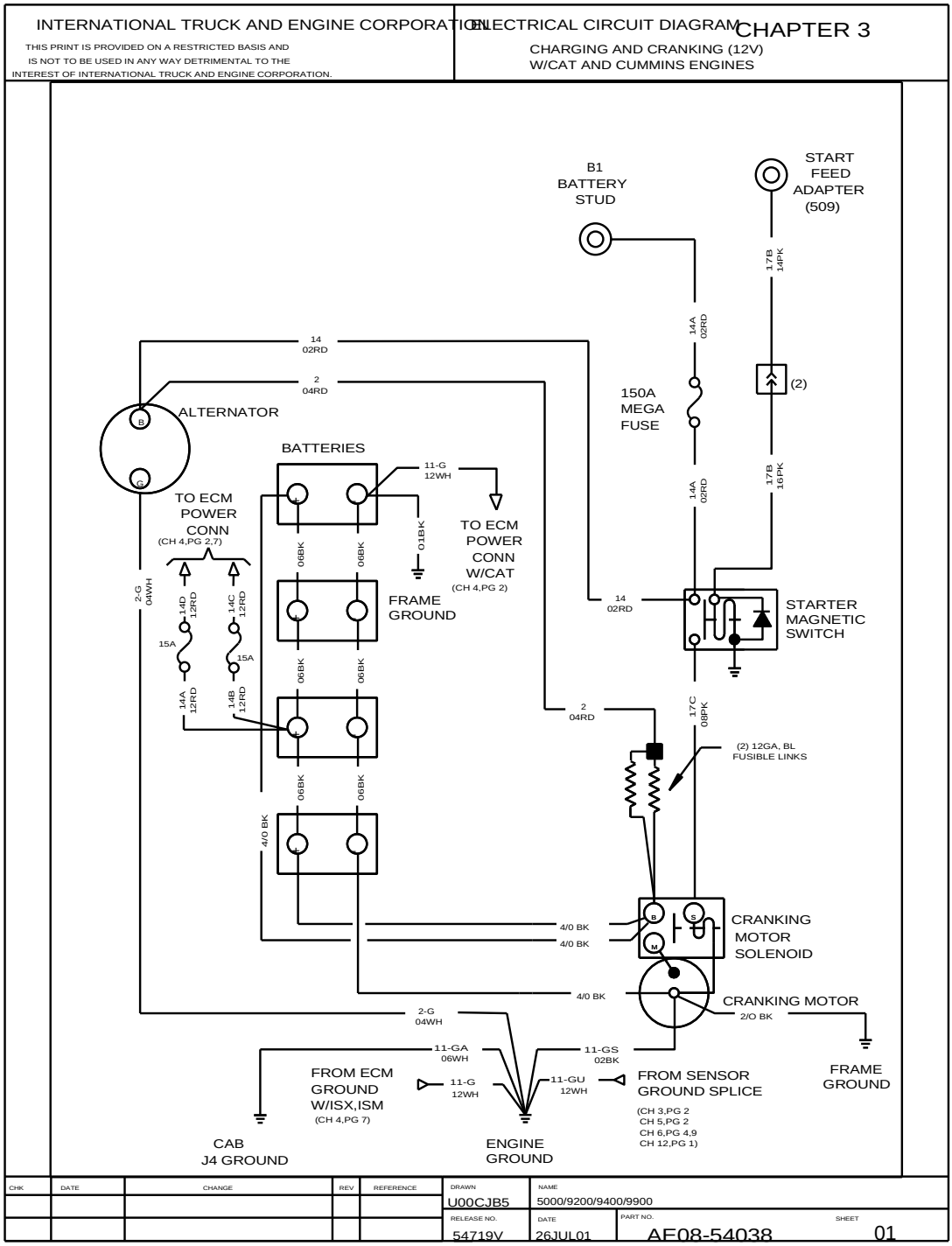

Figure 19 W/Cat and Cummins Engines

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

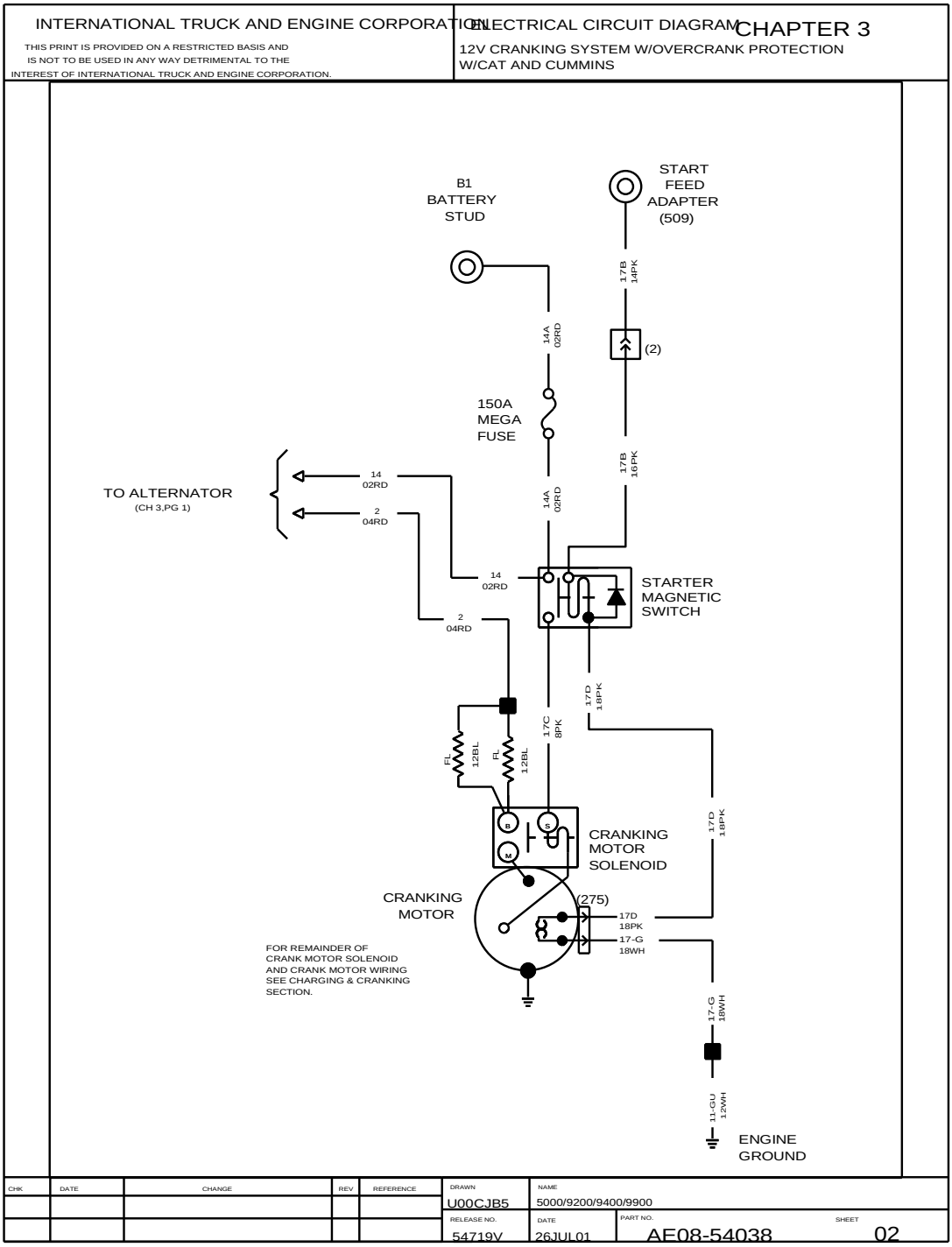

Figure 20 W/Overcrank Protection W/Cat and Cummins Engines

3.3. W/I6 HEUI ENGINE, P. 3

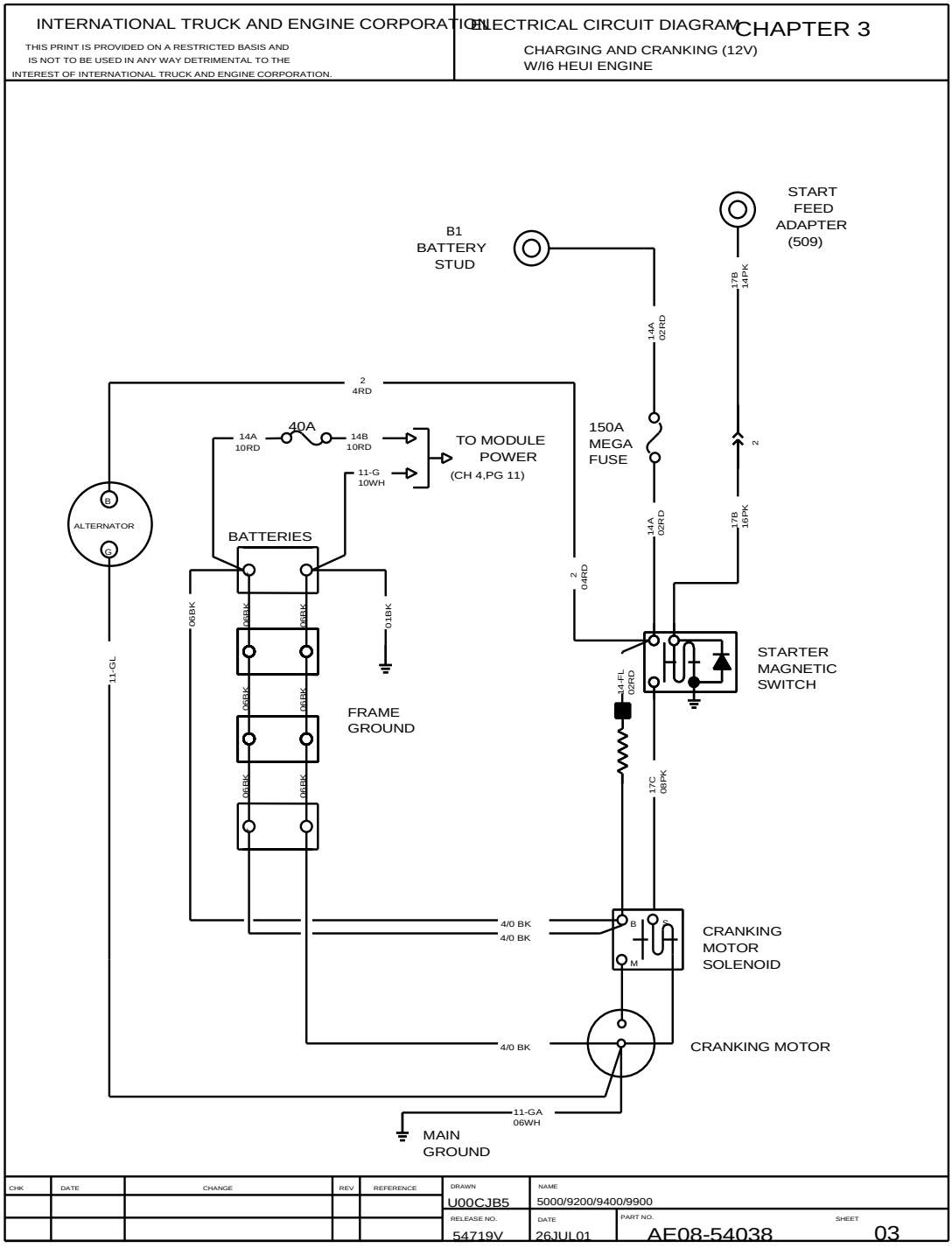

Figure 21 W/I6 HEUI Engine

3.4. W/OVERCRANK PROTECTION W/I6 HEUI, P. 4

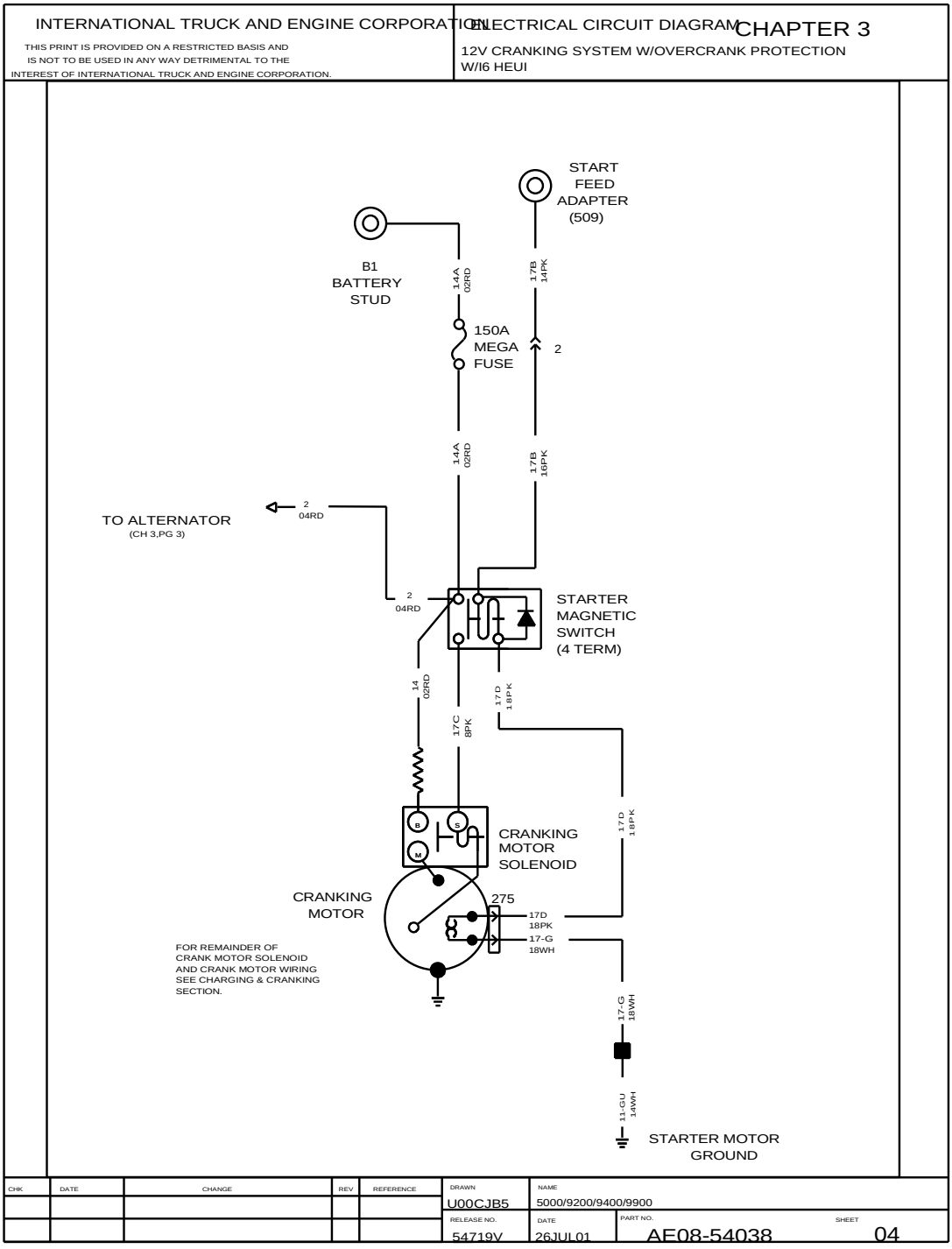

Figure 22 W/Overcrank Protection W/I6 HEUI

3.5. W/CAT AND CUMMINS ENGINES AND W/1GA CHARGING CIRCUIT, P. 5

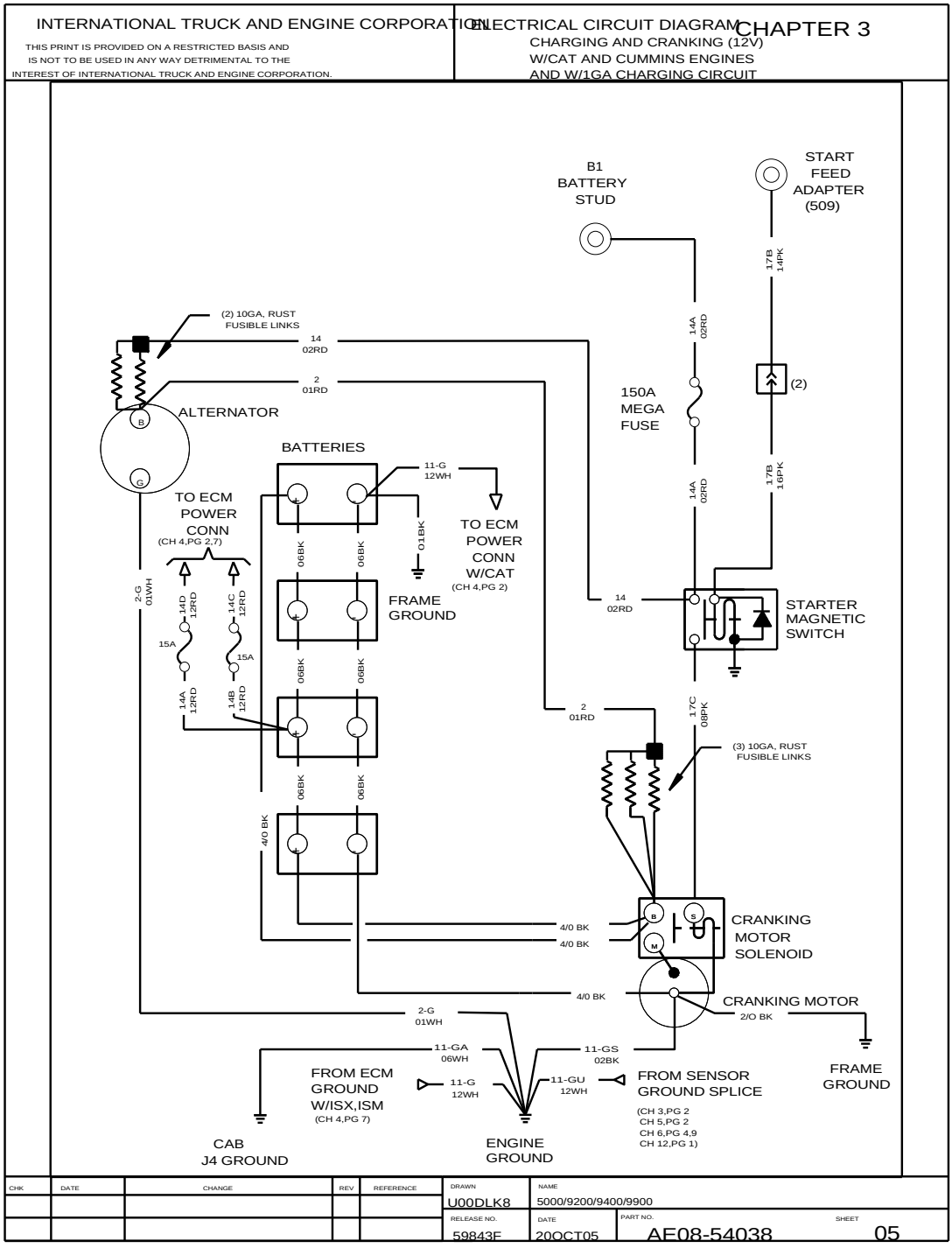

Figure 23 W/Cat and Cummins Engines and W/1GA Charging Circuit

4. ENGINE SYSTEMS (CHAPTER 4)

4.1. CATERPILLAR C10, C11, C12, C13, C15, AND C16 CRUISE CONTROL, P. 1

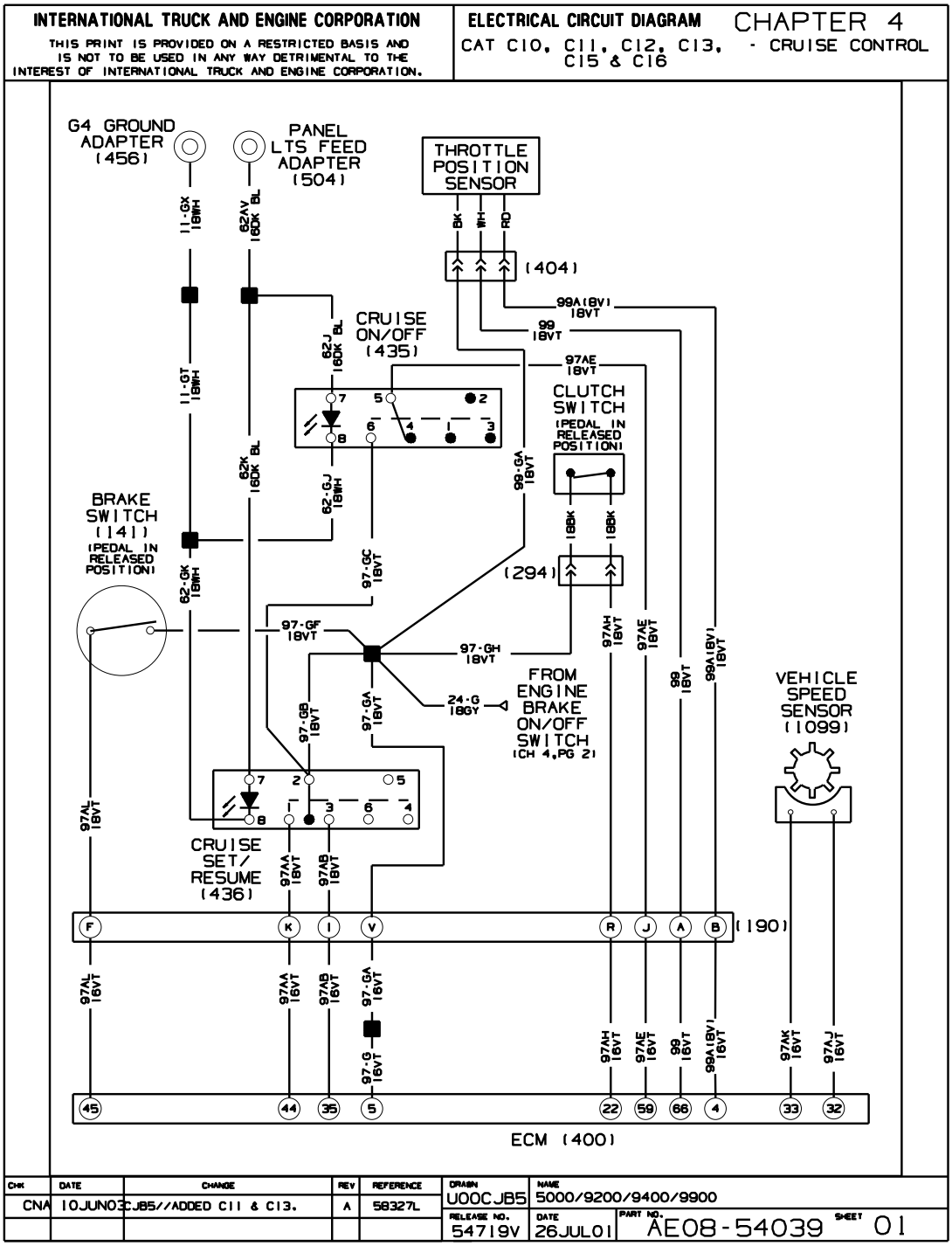

Figure 24 Caterpillar C10, C11, C12, C13, C15, and C16 Cruise Control

4.2. CATERPILLAR C10, C11, C12, C13, C15, AND C16 ENGINE BRAKE, P. 2

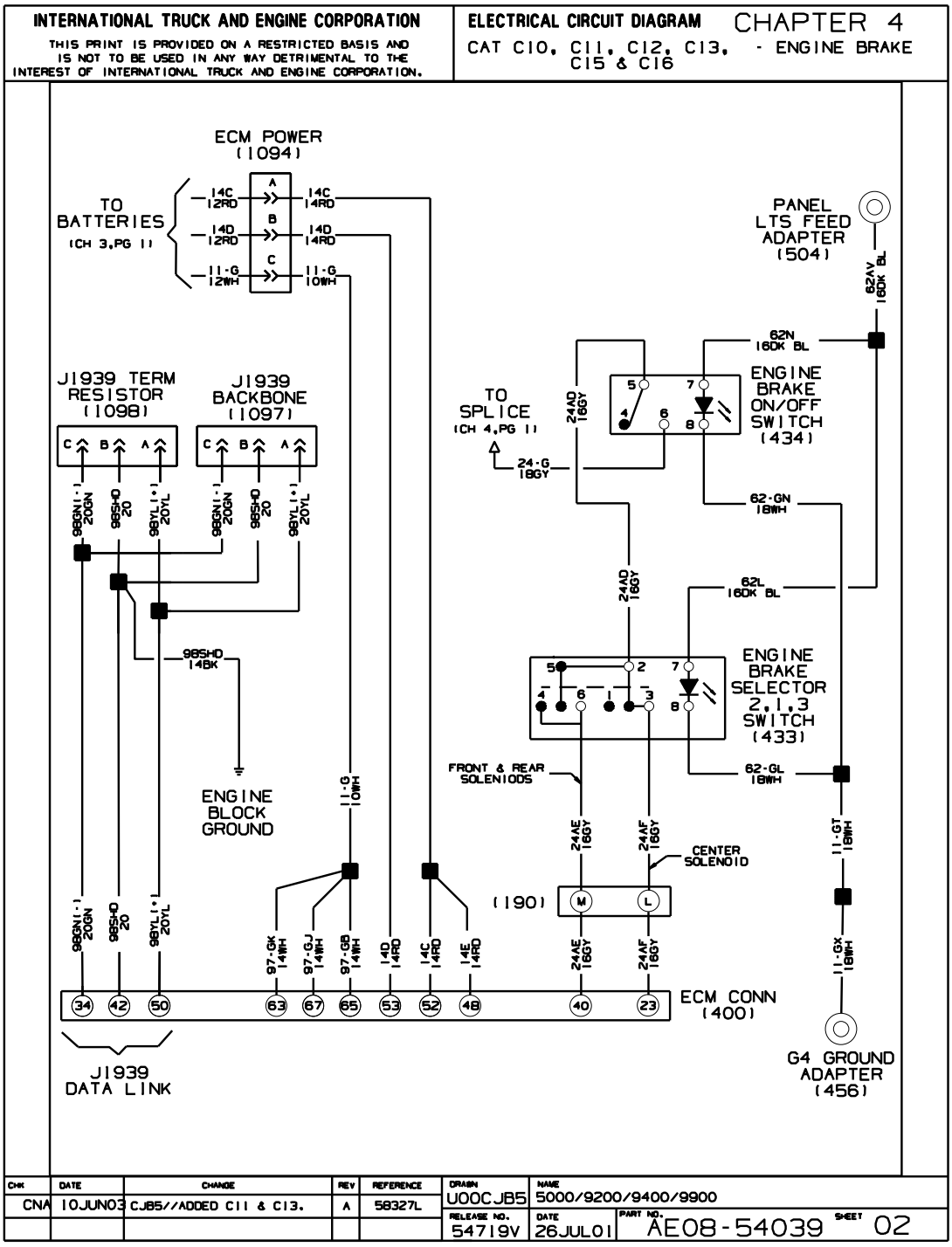

Figure 25 Caterpillar C10, C11, C12, C13, C15, and C16 Engine Brake

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

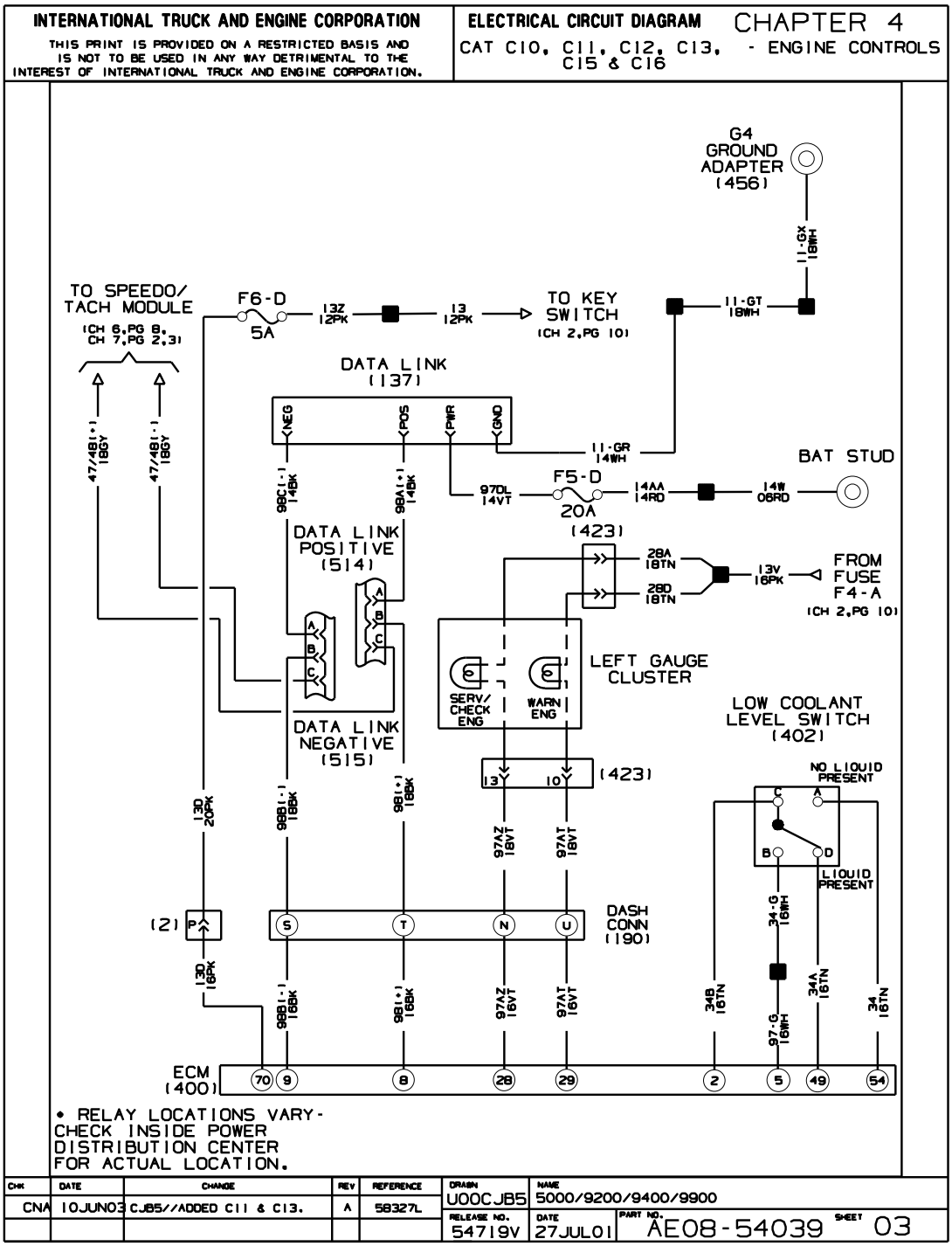

Figure 26 Caterpillar C10, C11, C12, C13, C15, and C16 Engine Controls

4.4. CUMMINS ISM, ISX CRUISE CONTROL, P. 4

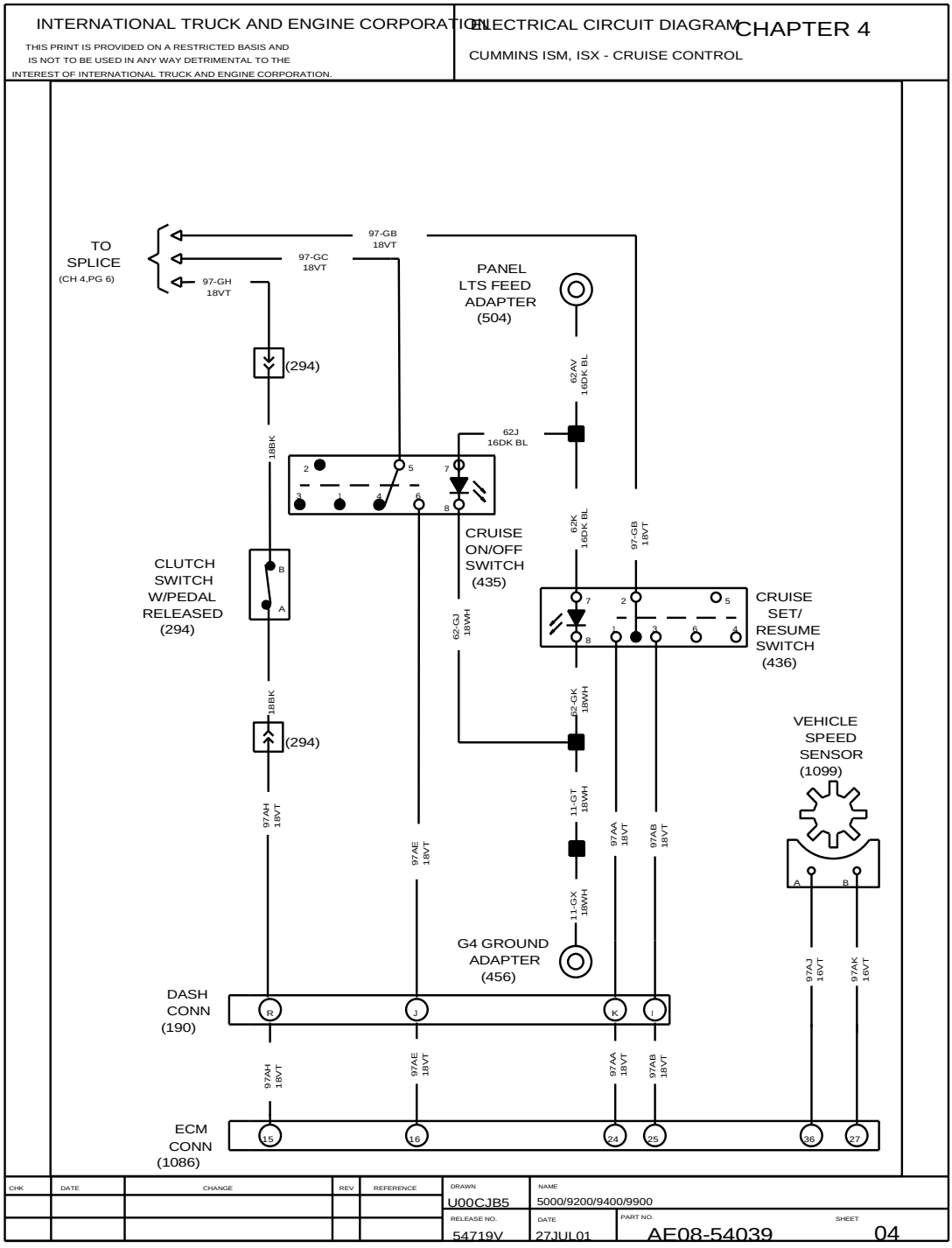

Figure 27 Cummins ISM, ISX Cruise Control

4.5. CUMMINS ISM, ISX ENGINE BRAKE, P. 5

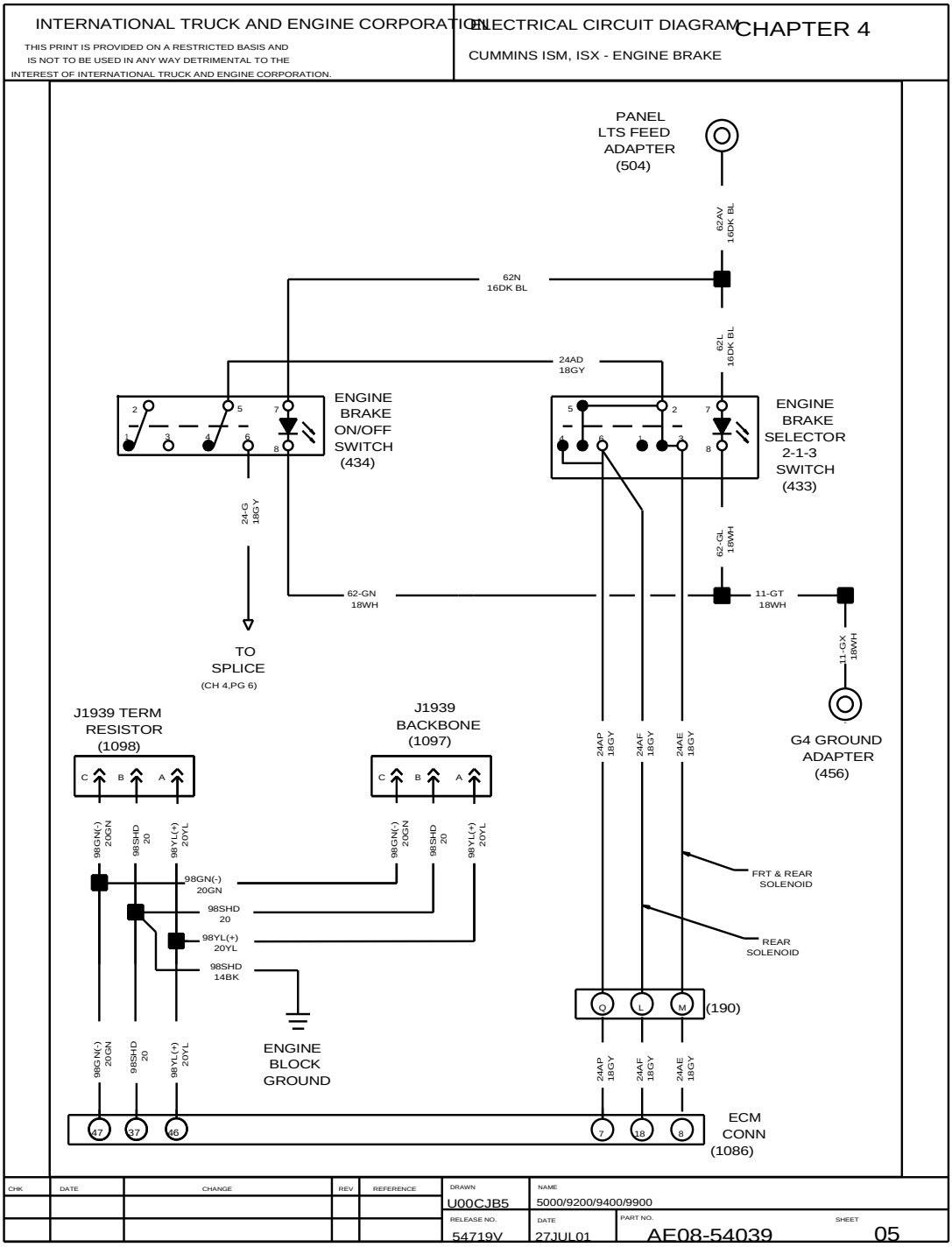

Figure 28 Cummins ISM, ISX Engine Brake

4.6. CUMMINS ISM , ISX — ENGINE CONTROLS, P. 6

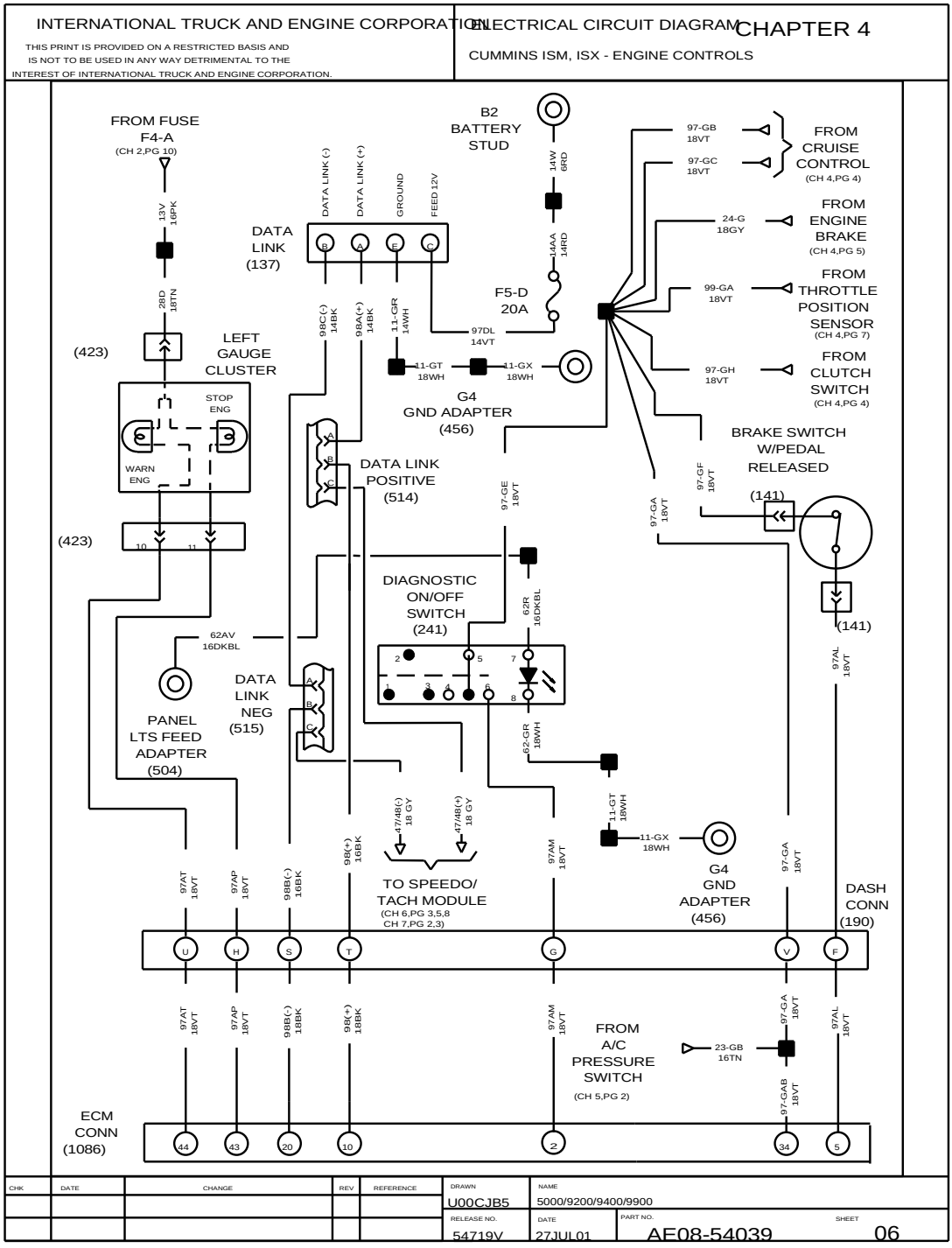

Figure 29 Cummins ISM, ISX – Engine Controls

4.7. CUMMINS AHD AND ISM – ENGINE CONTROLS, P. 7

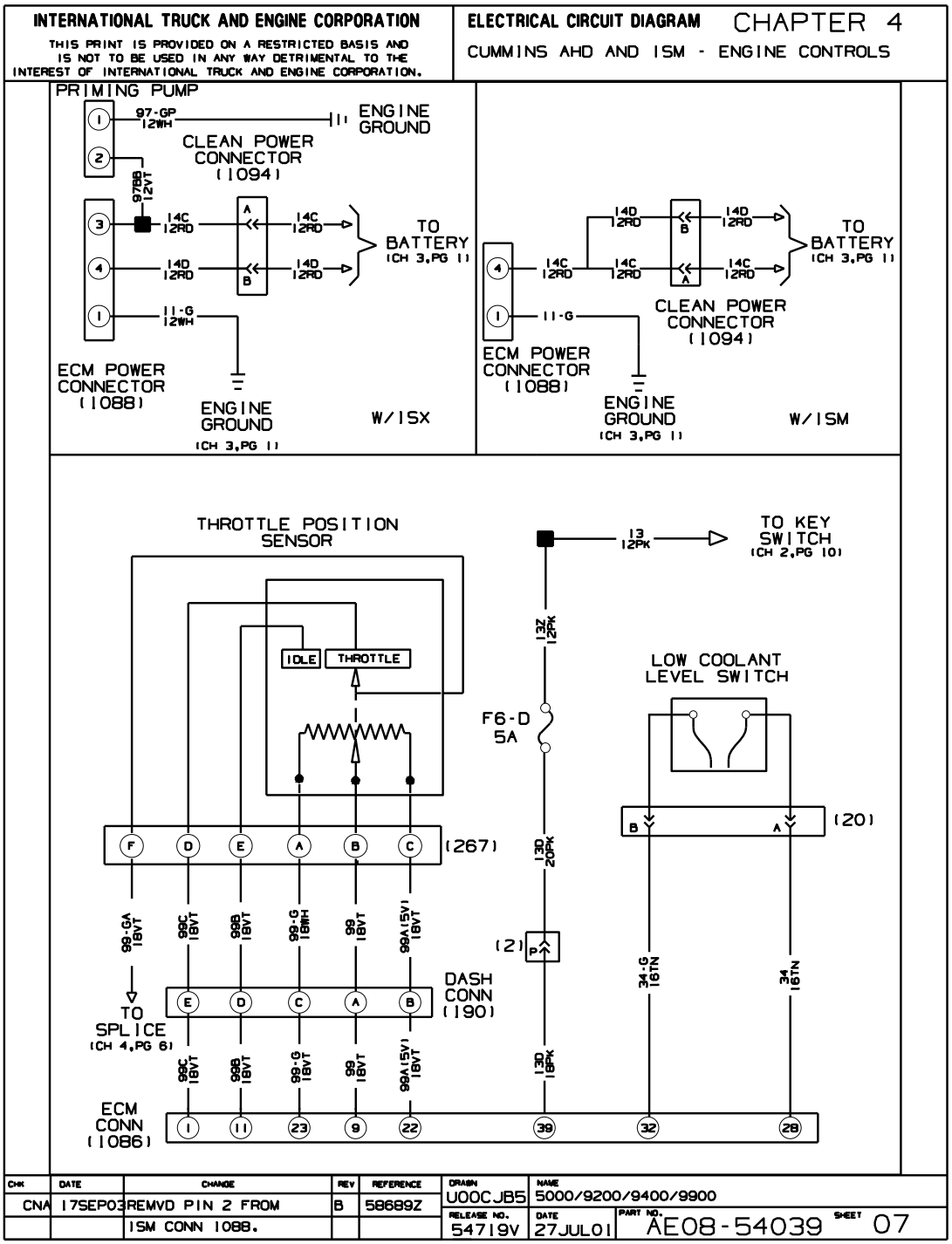

Figure 30 Cummins AHD and ISM – Engine Controls

4.8. I6 HEUI — CRUISE CONTROL, P. 8

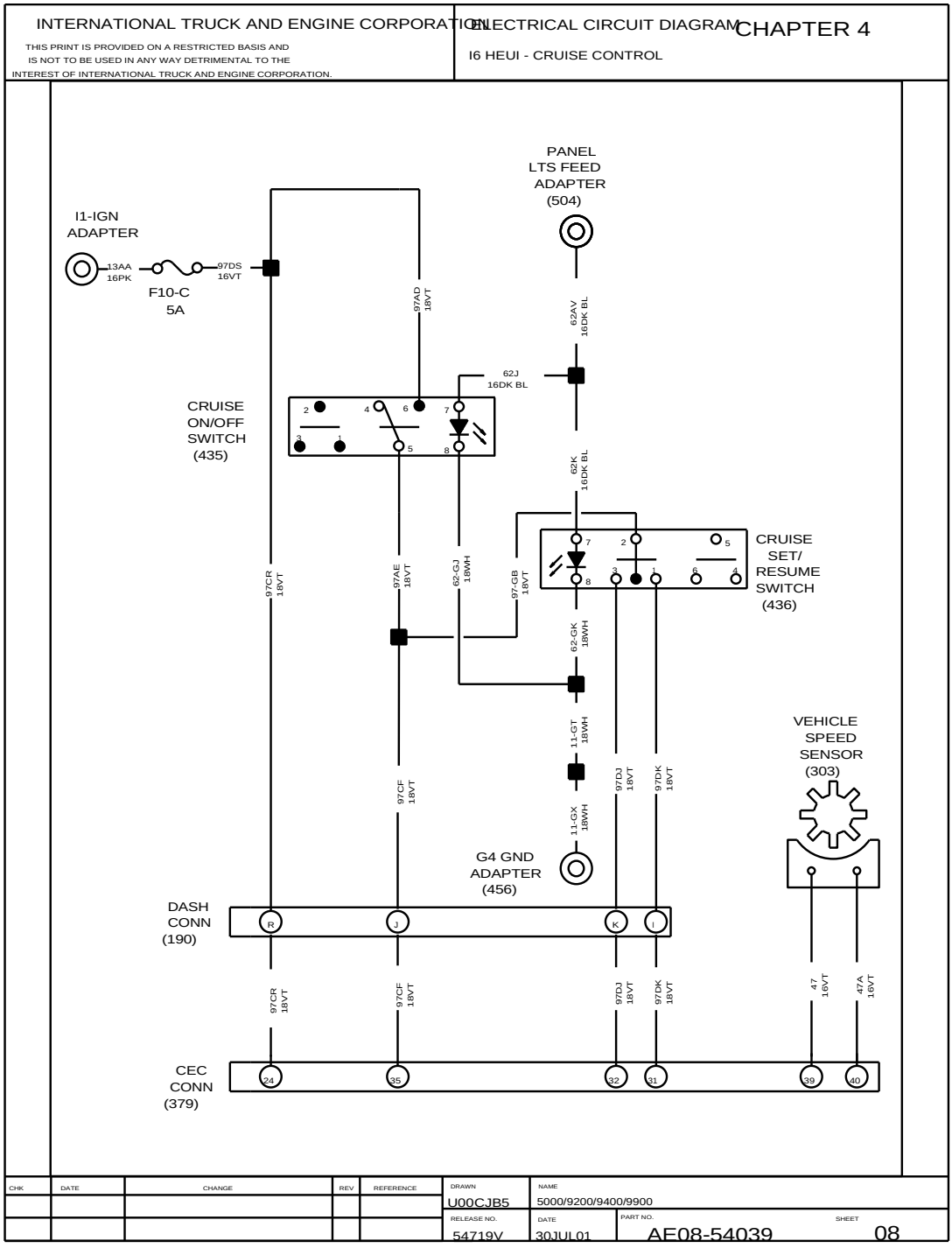

Figure 31 I6 HEUI — Cruise Control

4.9. I6 HEUI — ENGINE BRAKE, P. 9

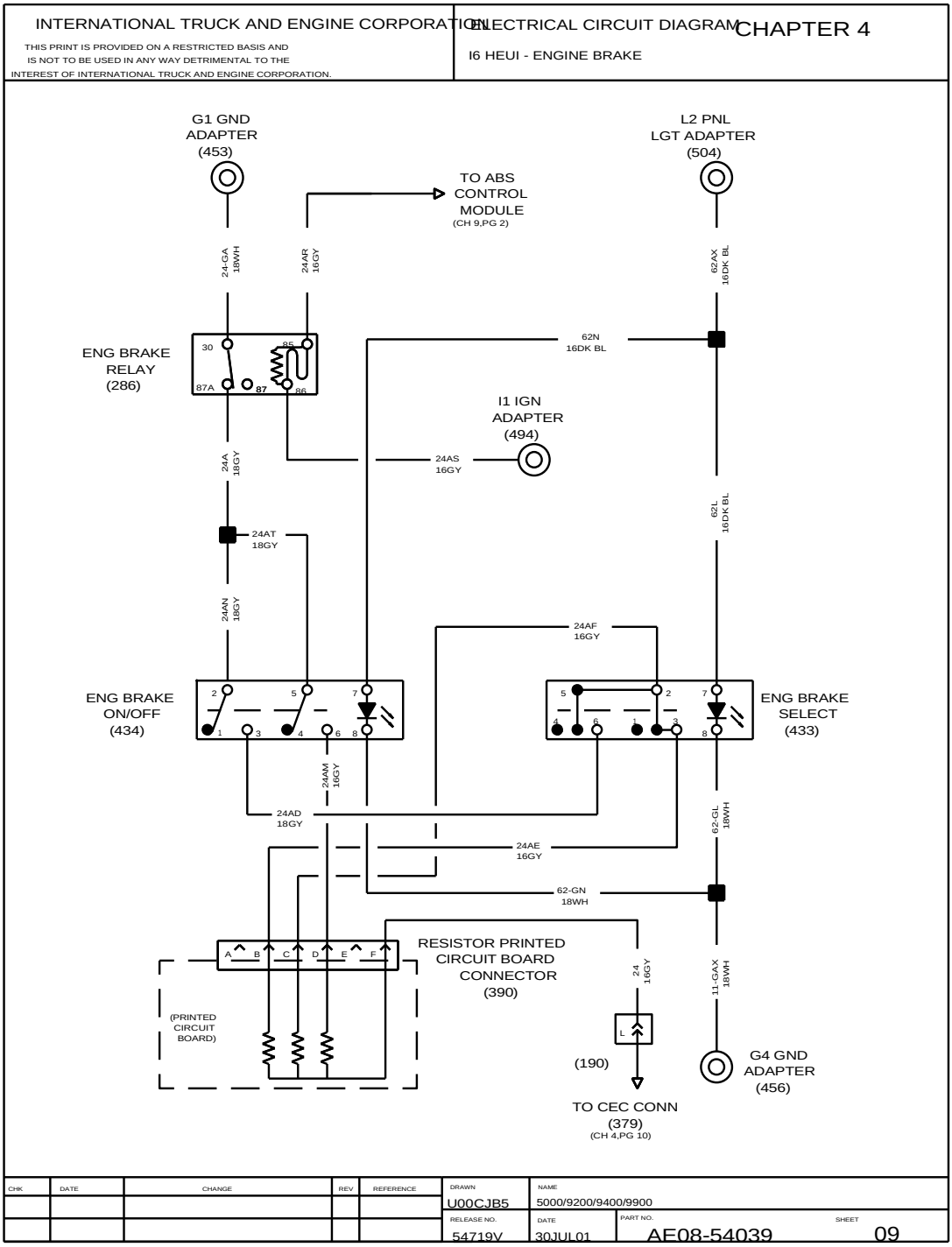

Figure 32 I6 HEUI — Engine Brake

4.10. I6 HEUI — ENGINE CONTROLS, P. 10

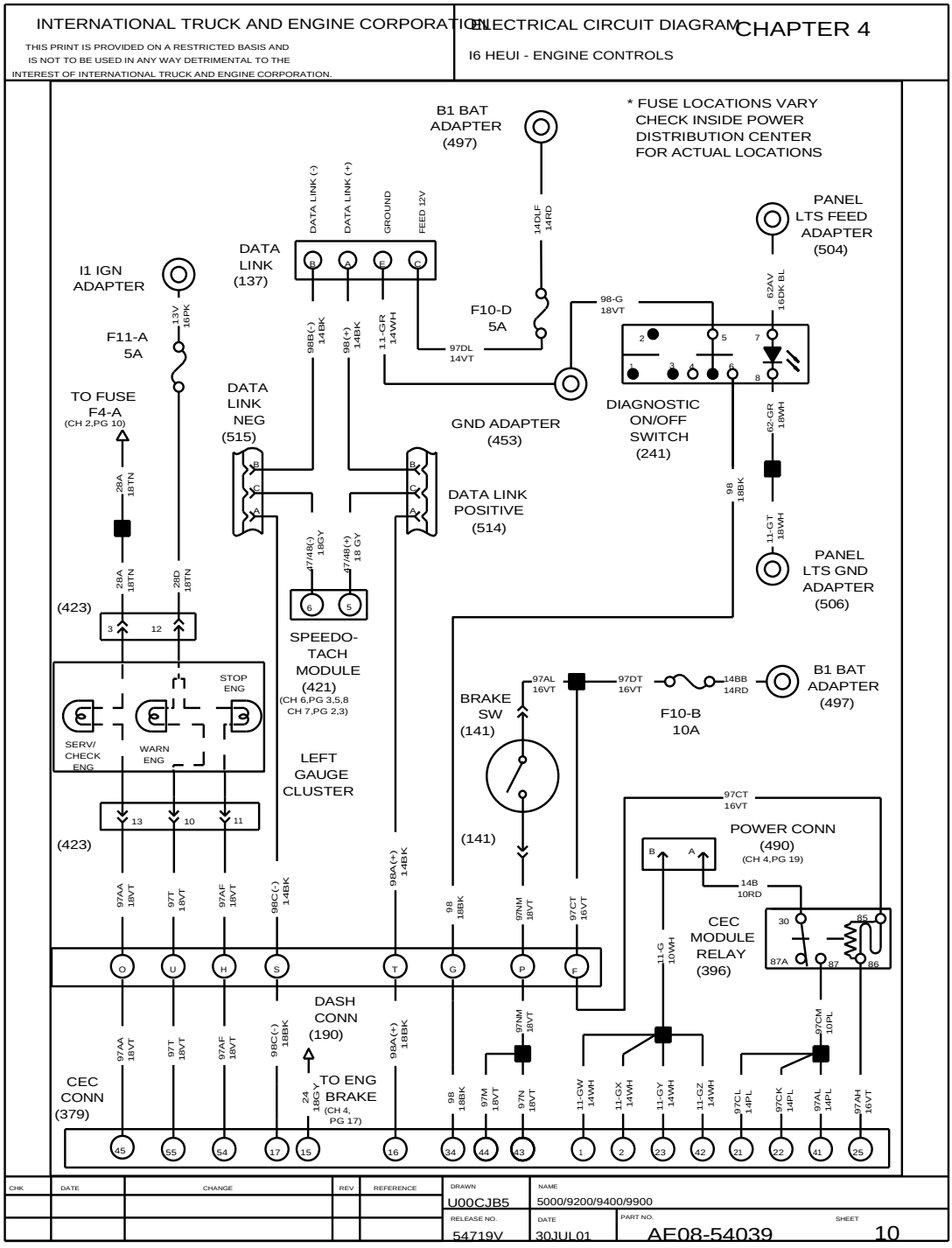

Figure 33 I6 HEUI — Engine Controls

4.11. I6 HEUI — MODULE POWER AND GROUND SYSTEM, P. 11

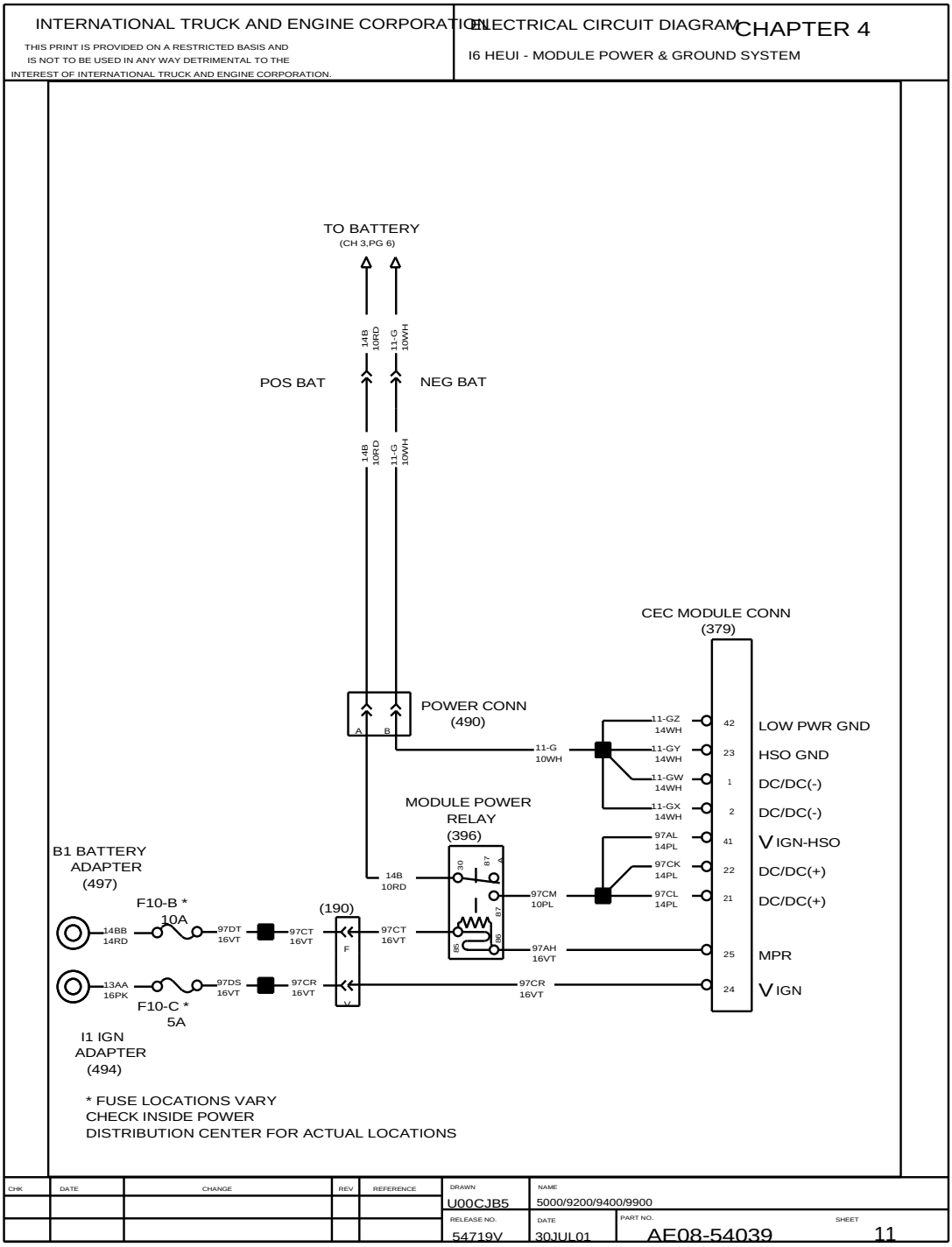

Figure 34 I6 HEUI — Module Power and Ground System

4.12. I6 HEUI — ACCELERATOR, BAP, AMBIENT AIR TEMP SENSOR SYSTEM, P. 12

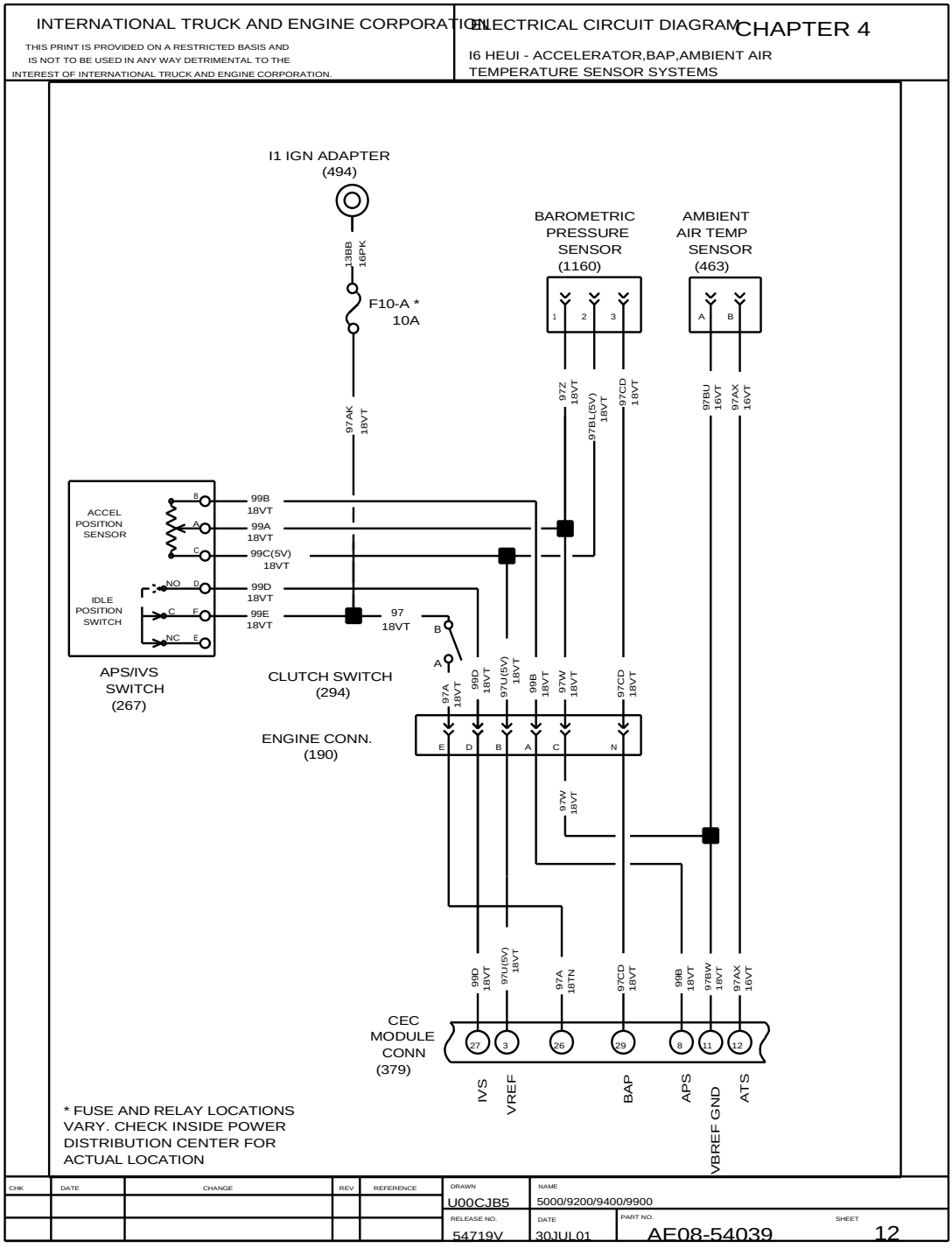

Figure 35 I6 HEUI — Accelerator, BAP, Ambient Air Temp Sensor System

4.13. I6 HEUI — SURGE TANK AND EXHAUST BRAKE SOLENOID, P. 13

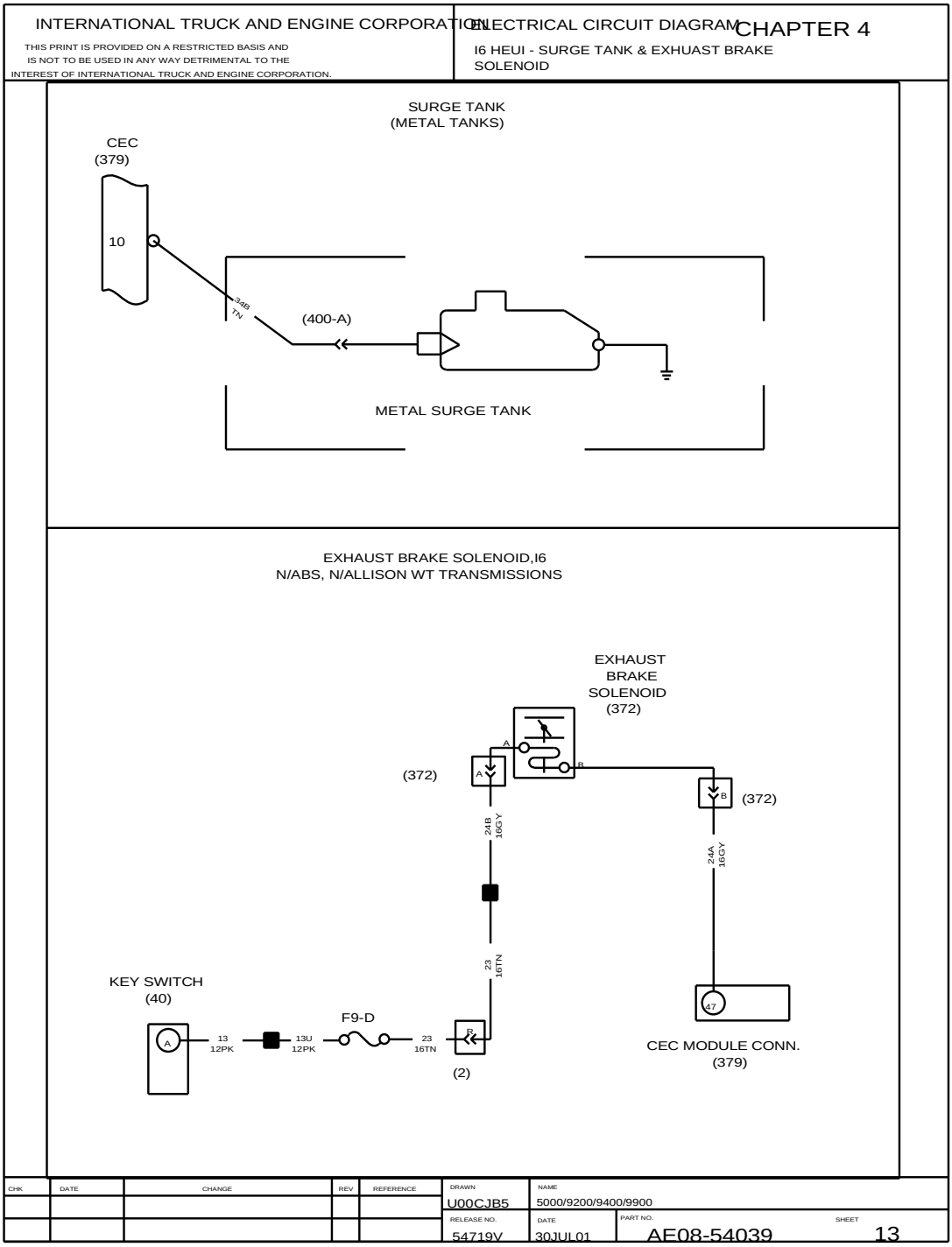

Figure 36 I6 HEUI — Surge Tank and Exhaust Brake Solenoid

5. FANS (CHAPTER 5)

5.1. HORTON AND KYSOR ENGINE FAN WITH CAT C10, C11, C12, C13, C15 AND C16 W/ AND N/ A/C, W/ AND N/ MANUAL FAN OVERRIDE SWITCH, P. 1

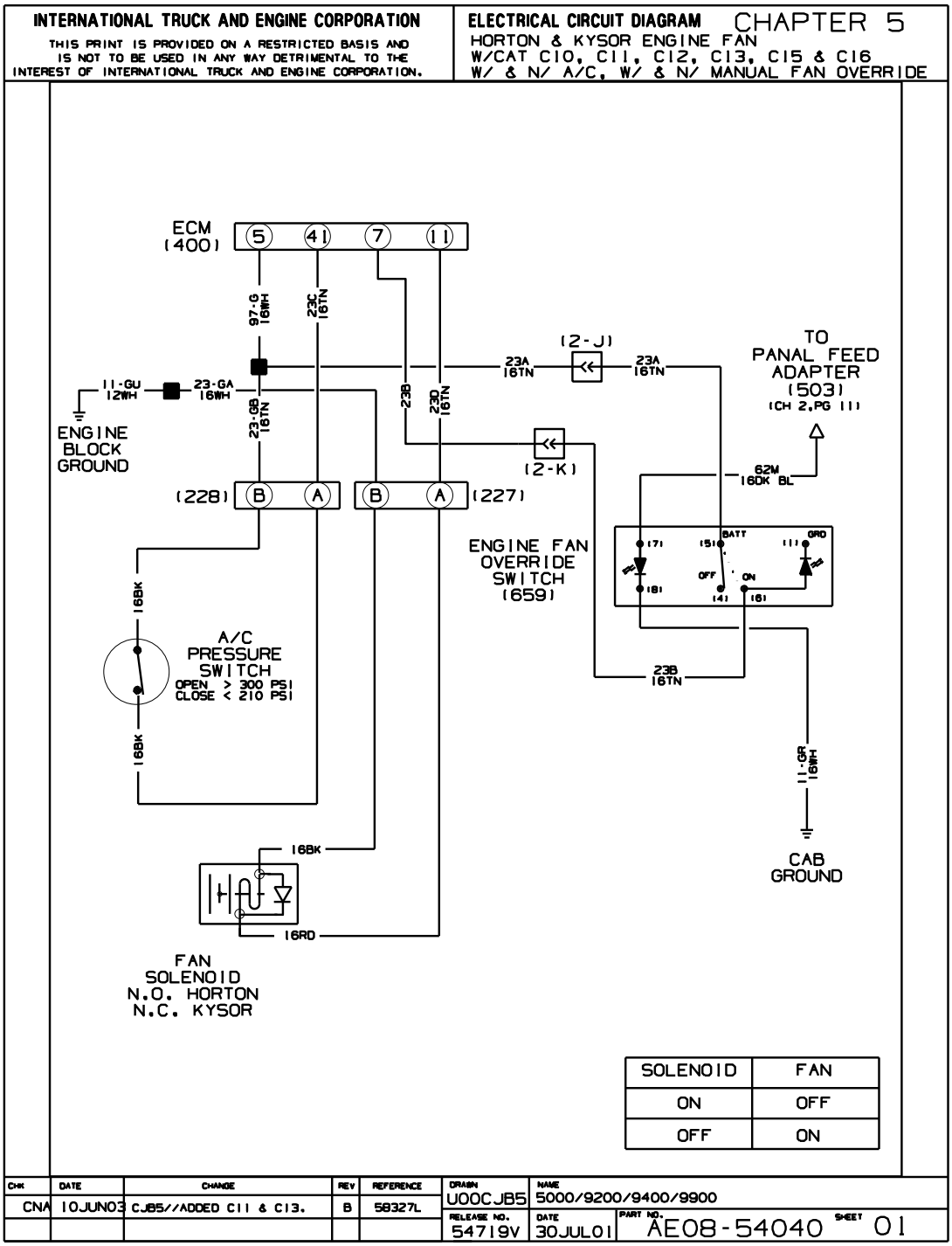

Figure 37 Horton and Kysor Engine Fan With Cat C10, C11, C12, C13, C15 and C16 W/ and N/ A/C, W/ and N/ Manual Fan Override Switch

5.2. HORTON AND KYSOR ENGINE FAN WITH CUMMINS ISM, ISX W/ AND N/ A/C, W/ AND N/ MANUAL FAN OVERRIDE SWITCH, P. 2

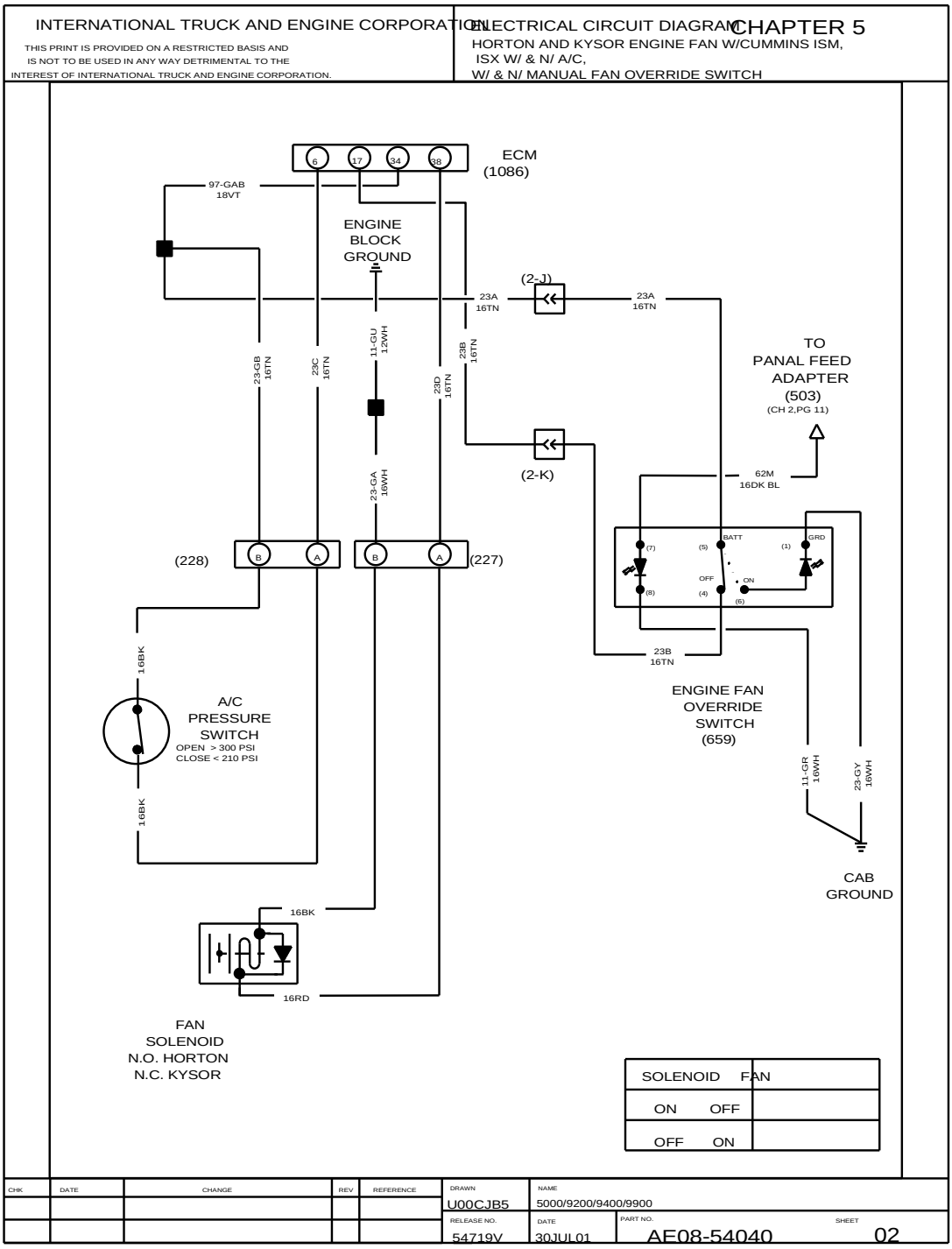

Figure 38 Horton and Kysor Engine Fan With Cummins ISM, ISX W/ and N/ A/C, W/ and N/ Manual Fan Override Switch

5.3. HORTON AND KYSOR ENGINE FAN WITH I6 HEUI ENGINES W/SHUTTER, P. 3

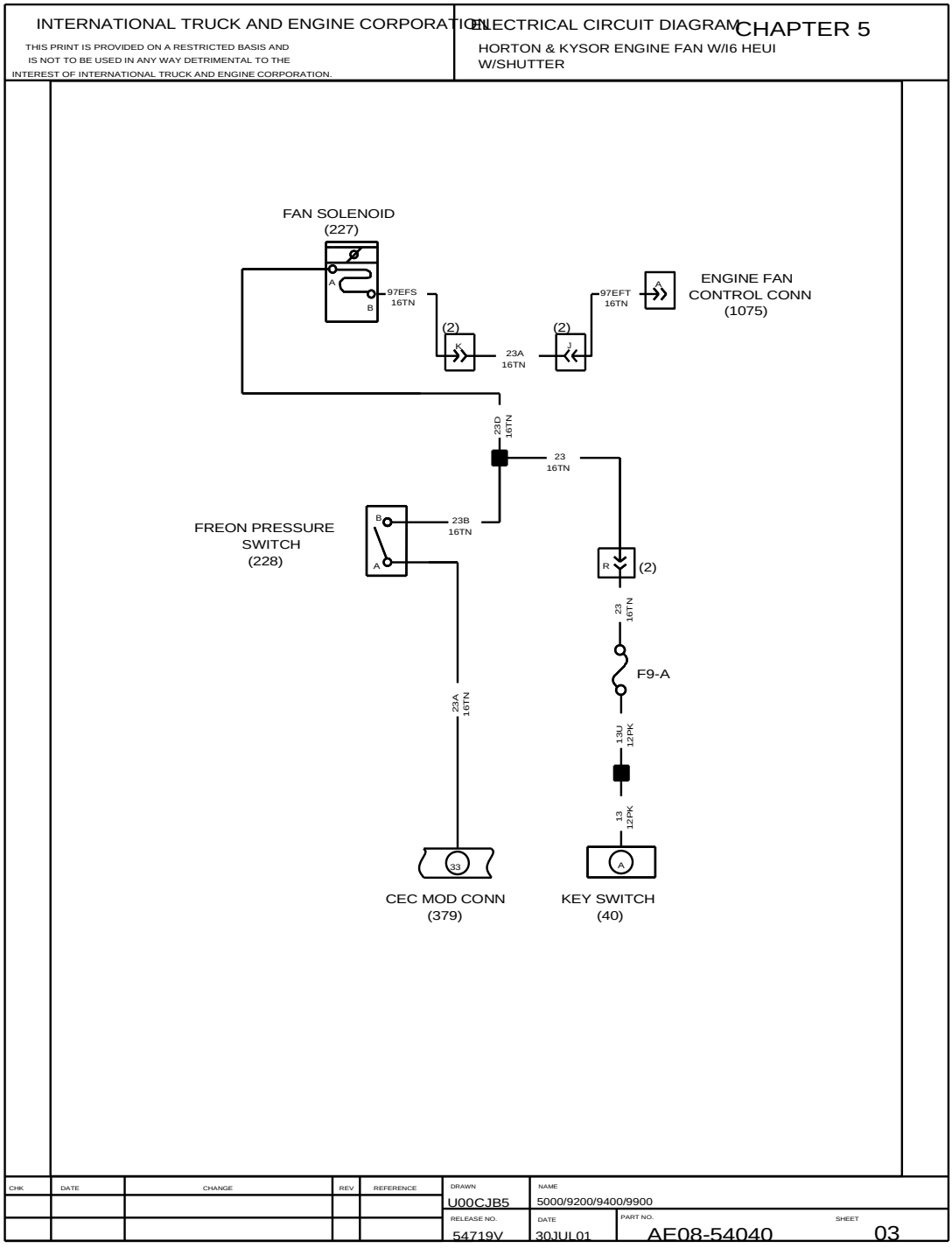

Figure 39 Horton and Kysor Engine Fan With I6 HEUI Engines W/Shutter

6. GAUGES AND SYSTEMS (CHAPTER 6)

6.1. 4X2 REAR AXLE OIL TEMPERATURE GAUGE, P. 1

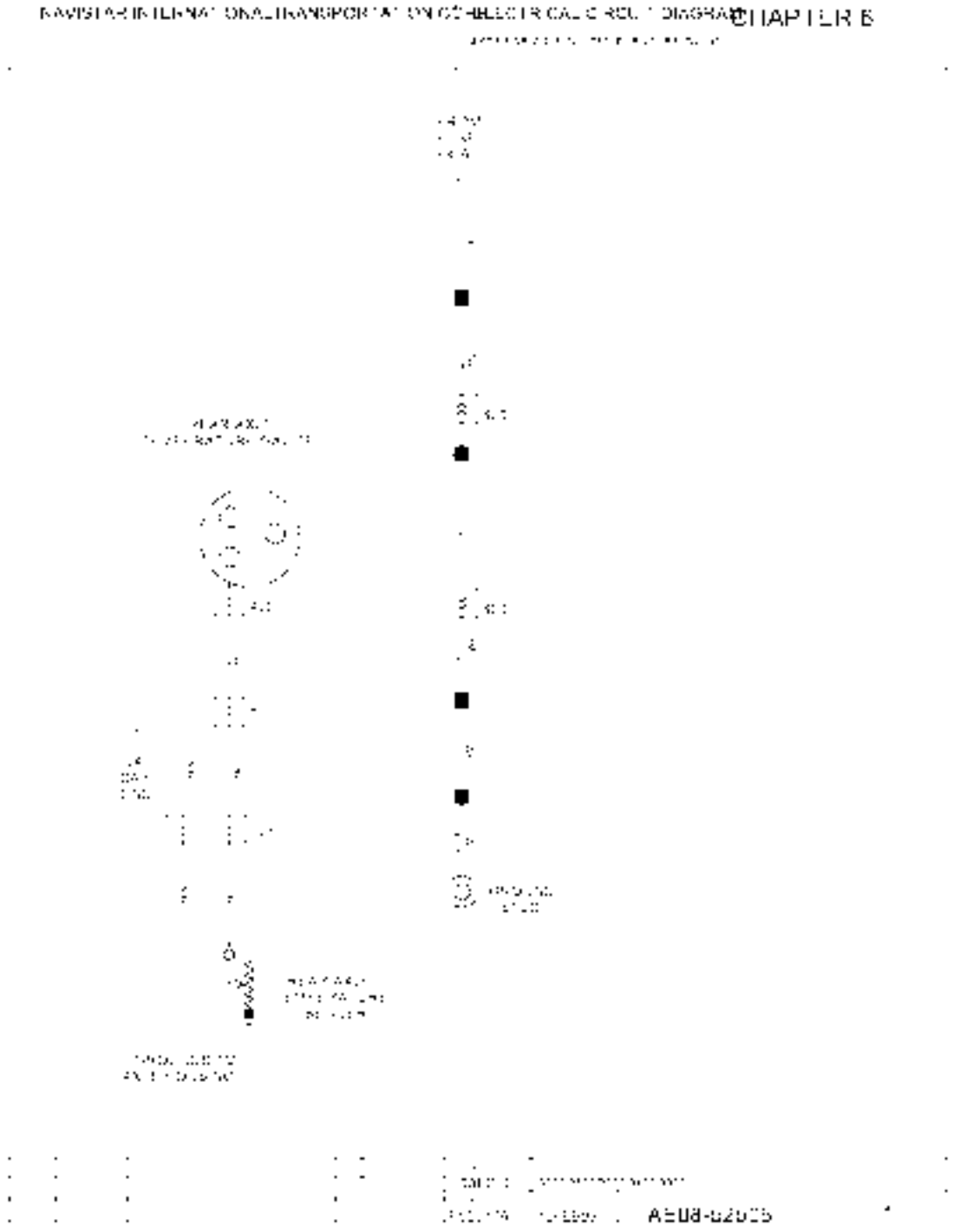

Figure 40 4x2 Rear Axle Oil Temperature Gauge

6.2. 6X4 AXLE FORWARD-REAR AND REAR-REAR TEMPERATURE GAUGE, P. 2

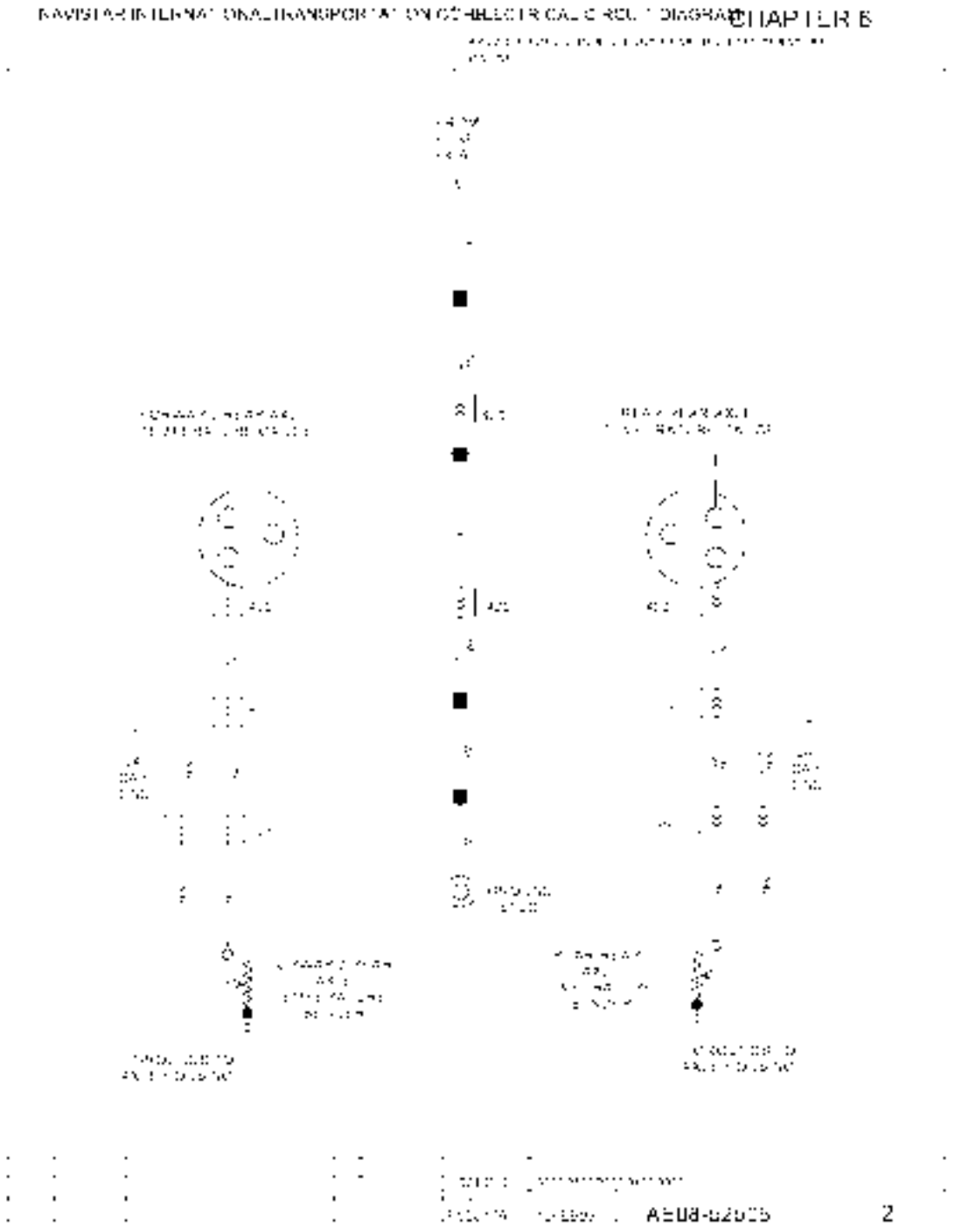

Figure 41 6x4 Axle Forward-Rear and Rear-RearTemperature Gauge

6.3. ENGINE OIL PRESSURE GAUGE, P. 3

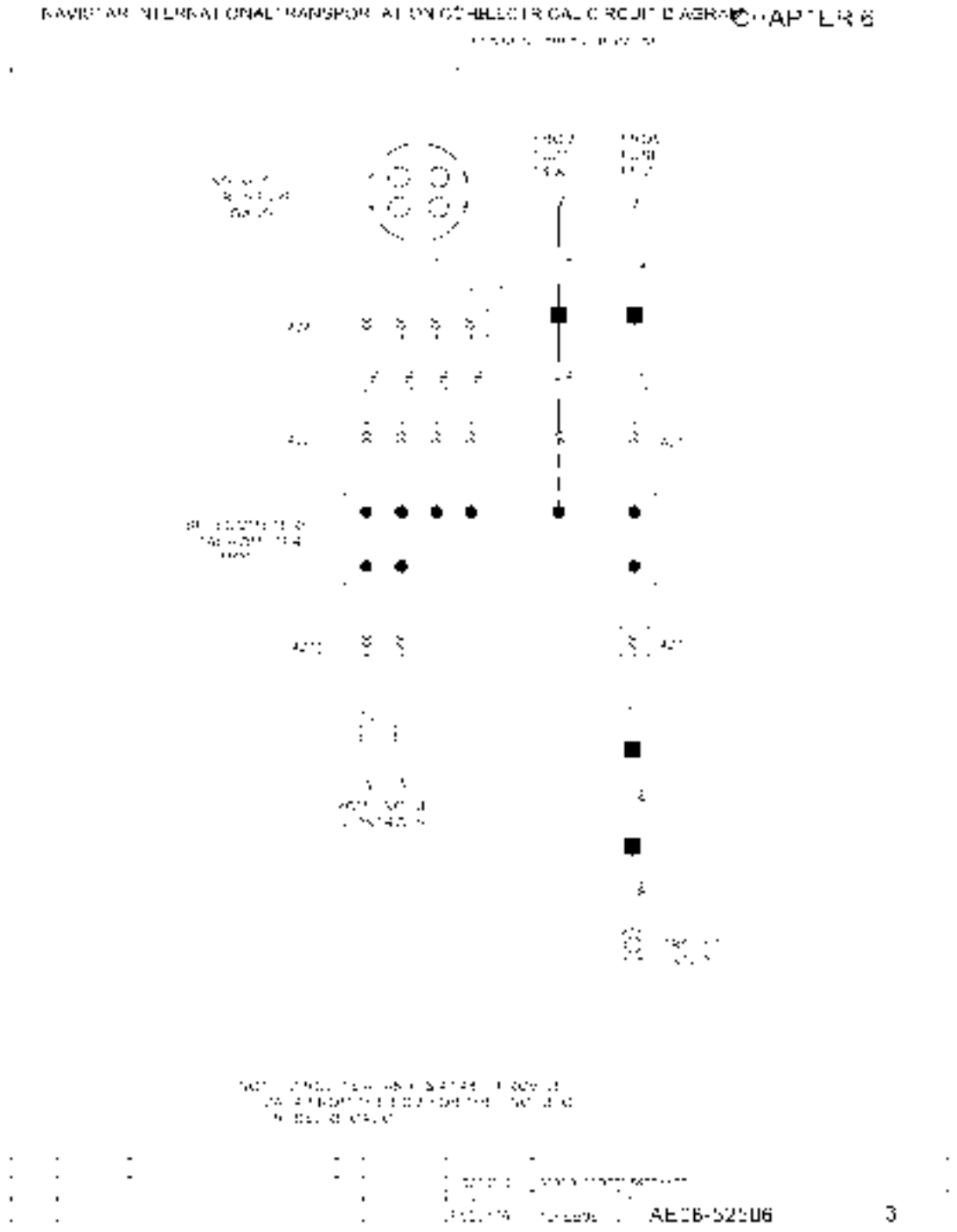

Figure 42 Engine Oil Pressure Gauge

6.4. ENGINE OIL TEMPERATURE GAUGE, P. 4

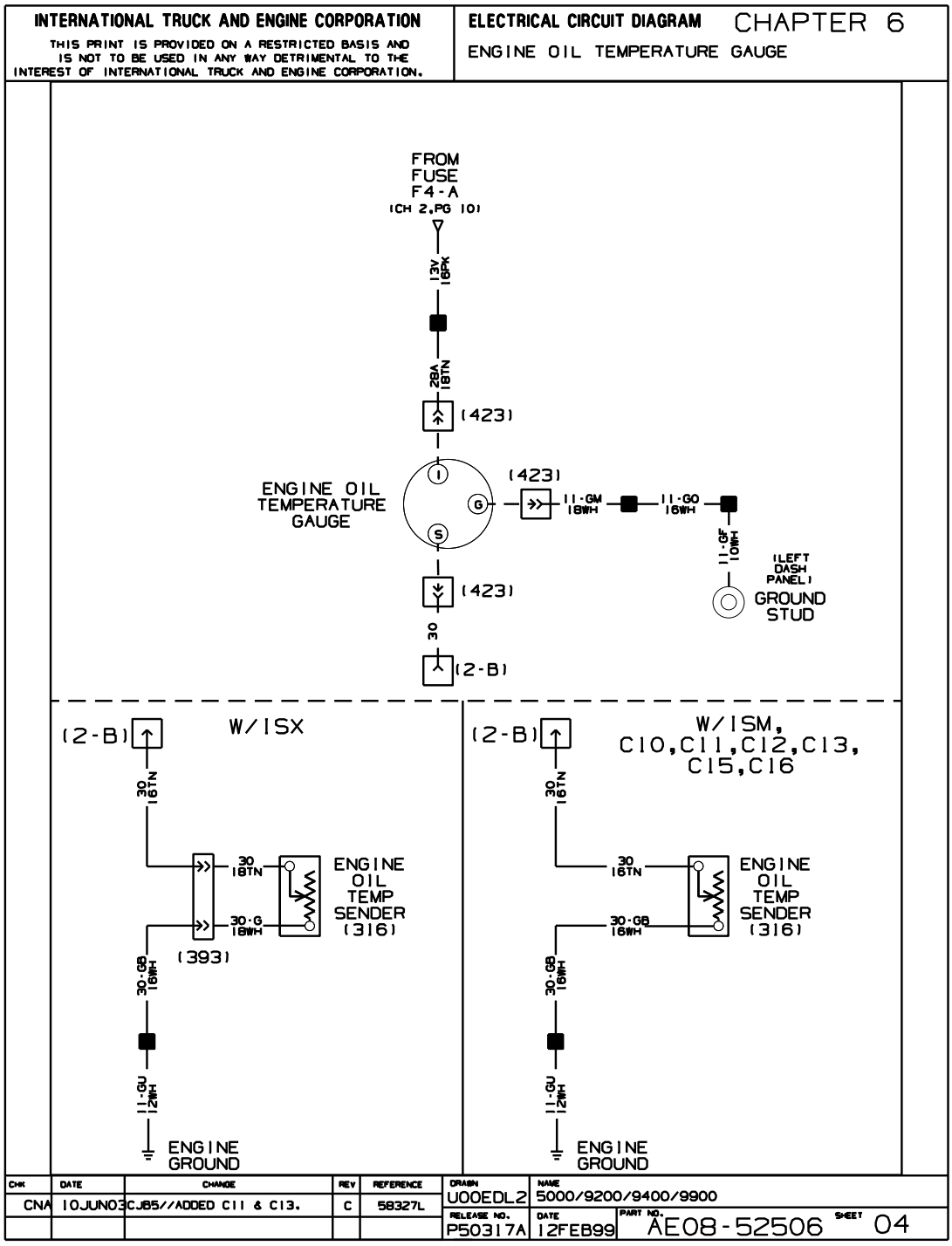

Figure 43 Engine Oil Temperature Gauge

6.5. ENGINE WATER TEMPERATURE GAUGE, P. 5

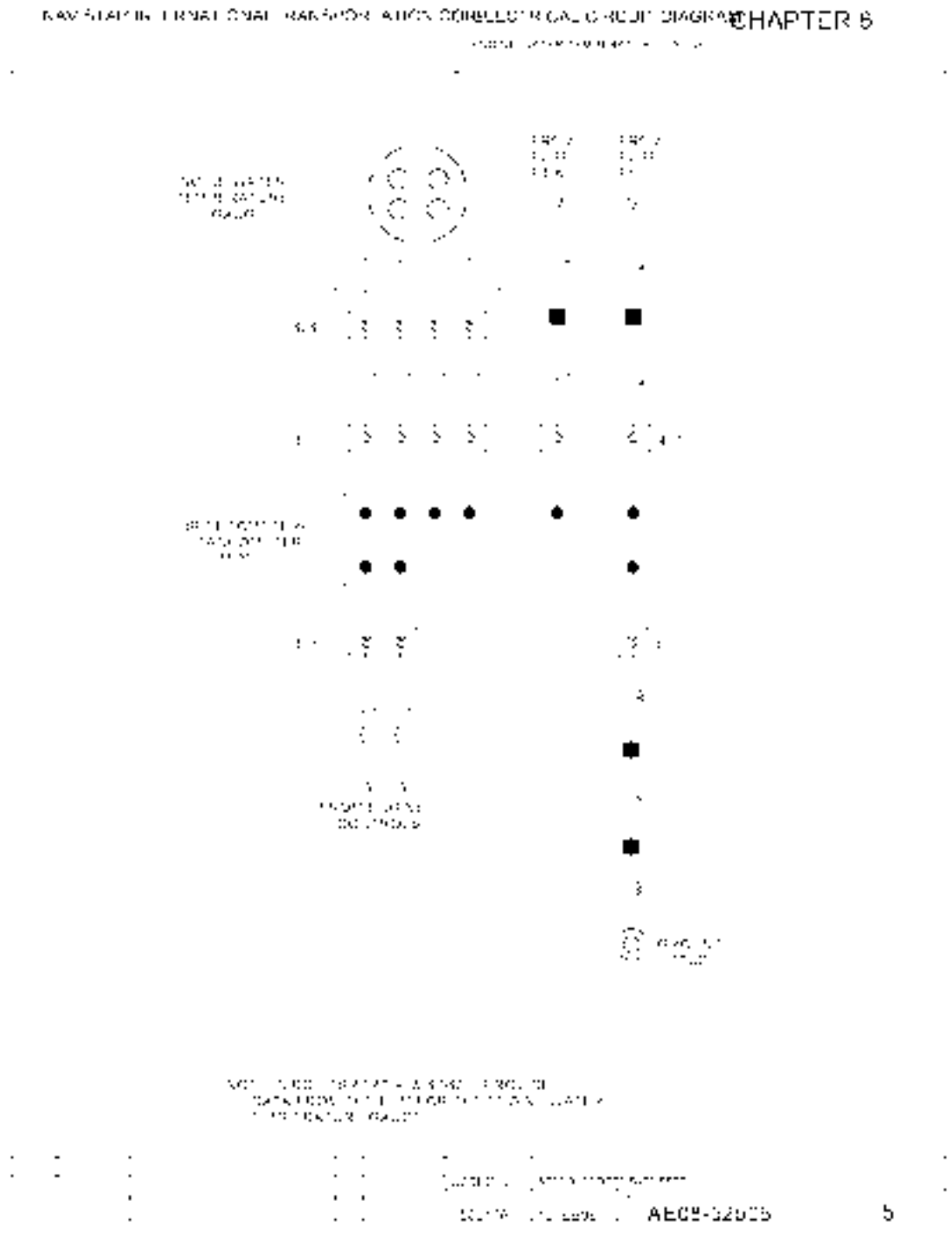

Figure 44 Engine Water Temperature Gauge

6.6. FUEL LEVEL GAUGE, P. 6

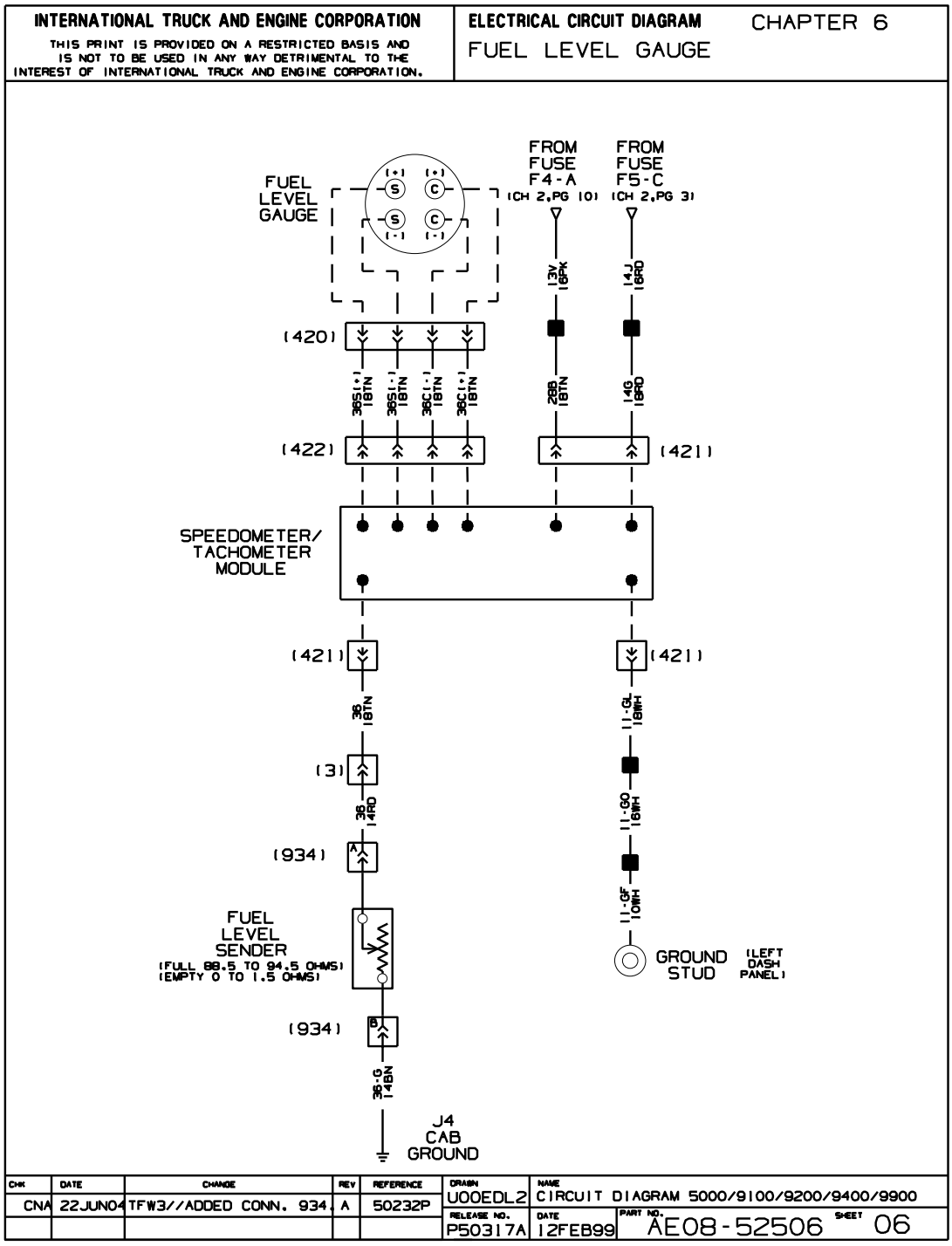

Figure 45 Fuel Level Gauge

6.7. PYROMETER GAUGE, P. 7

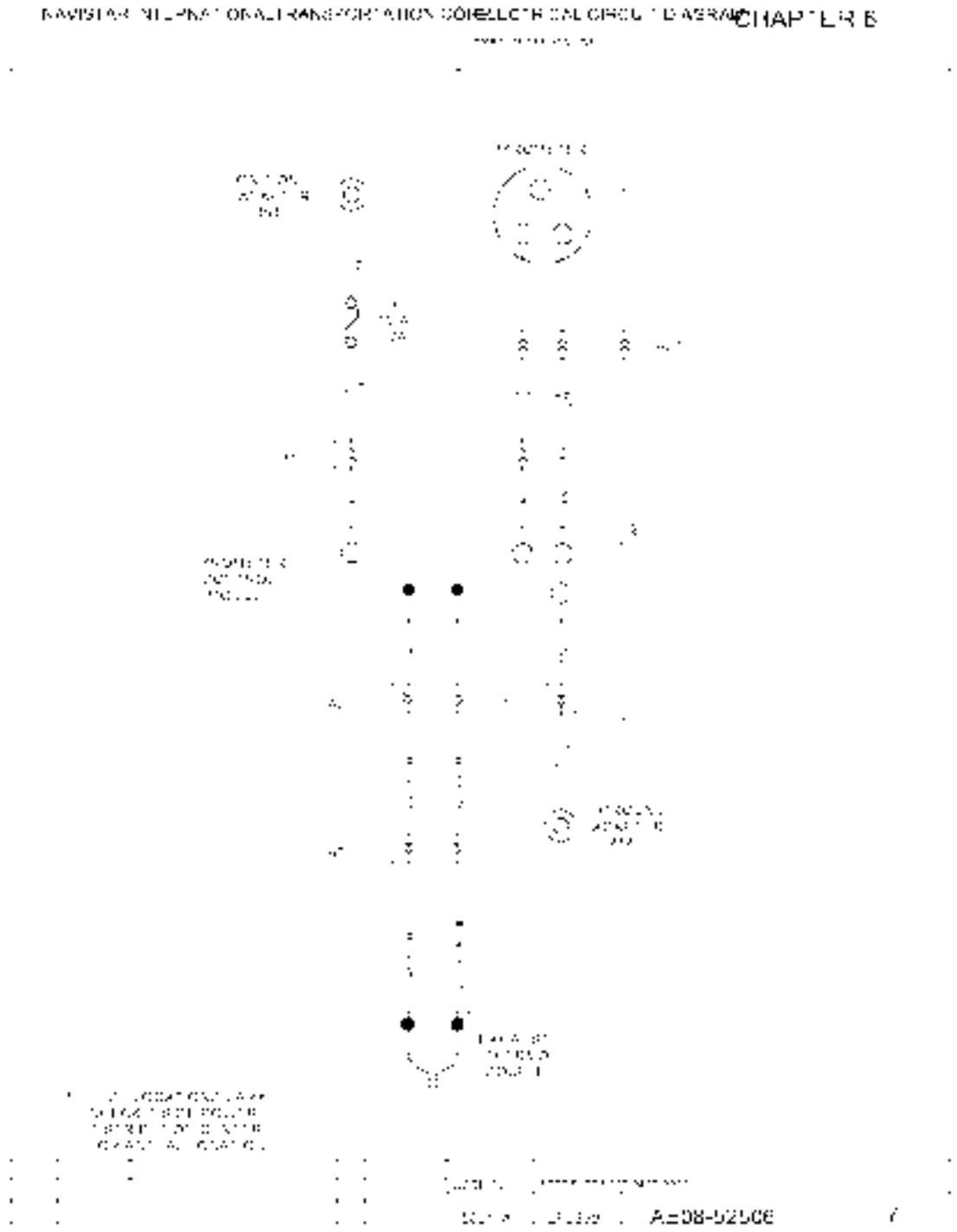

Figure 46 Pyrometer Gauge

6.8. SPEEDOMETER GAUGE — TACHOMETER GAUGE, P. 8

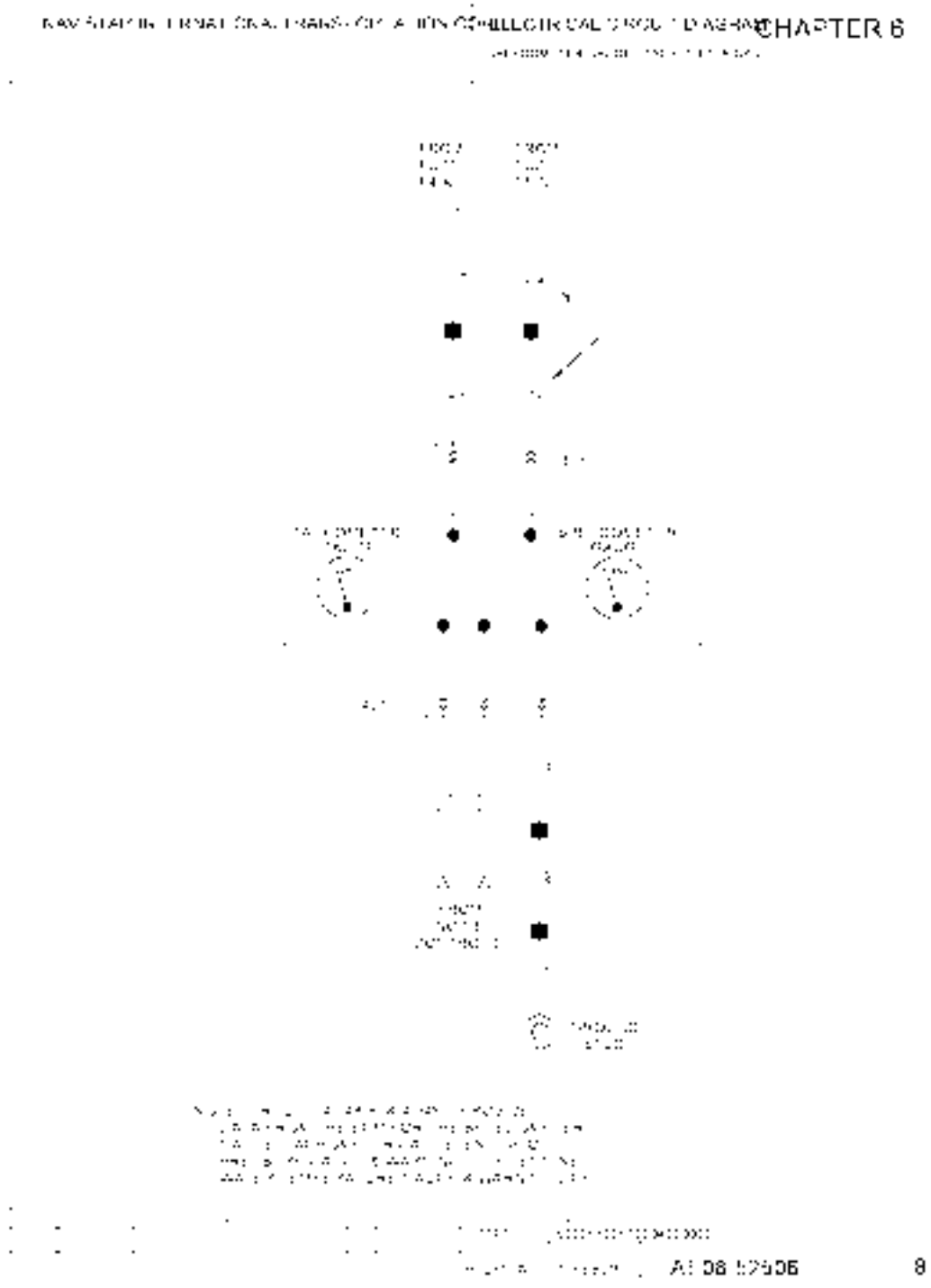

Figure 47 Speedometer Gauge — Tachometer Gauge

6.9. TRANSMISSION OIL TEMPERATURE GAUGE, P. 9

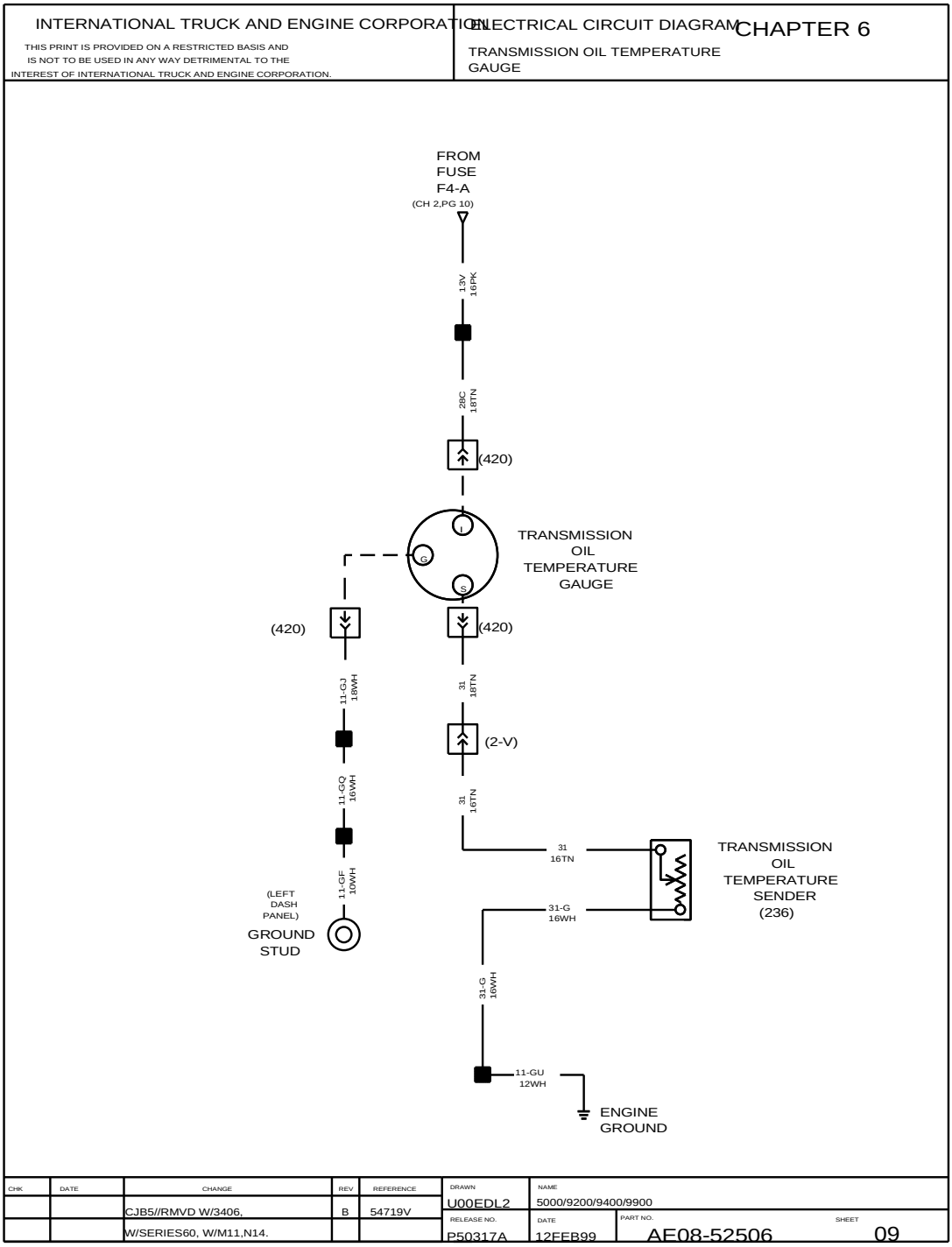

Figure 48 Transmission Oil Temperature Gauge

6.10. VOLTMETER GAUGE, P. 10

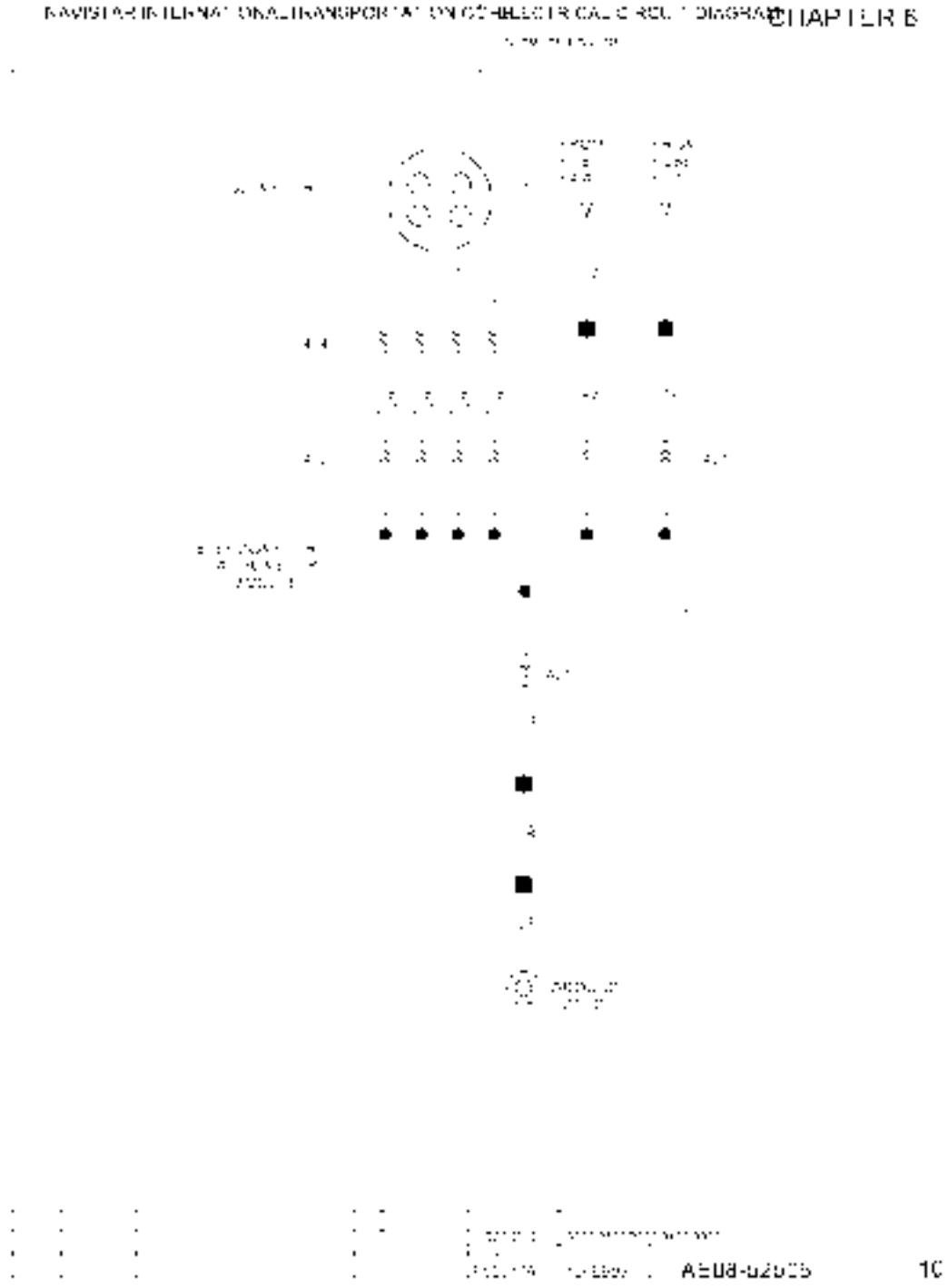

Figure 49 Voltmeter Gauge

6.11. ETHER START, P. 11

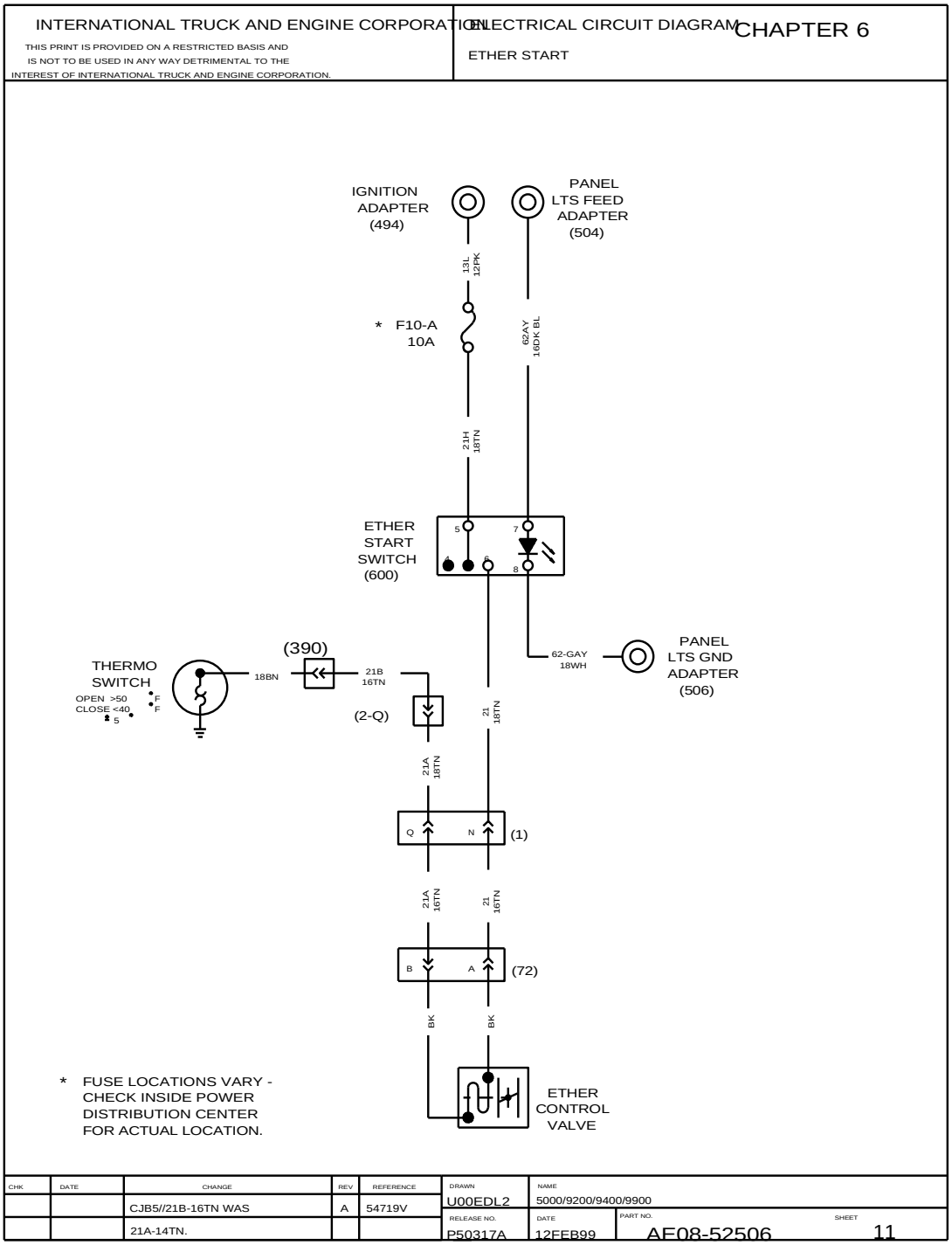

Figure 50 Ether Start

6.12. MANIFOLD PRESSURE GAUGE, P. 12

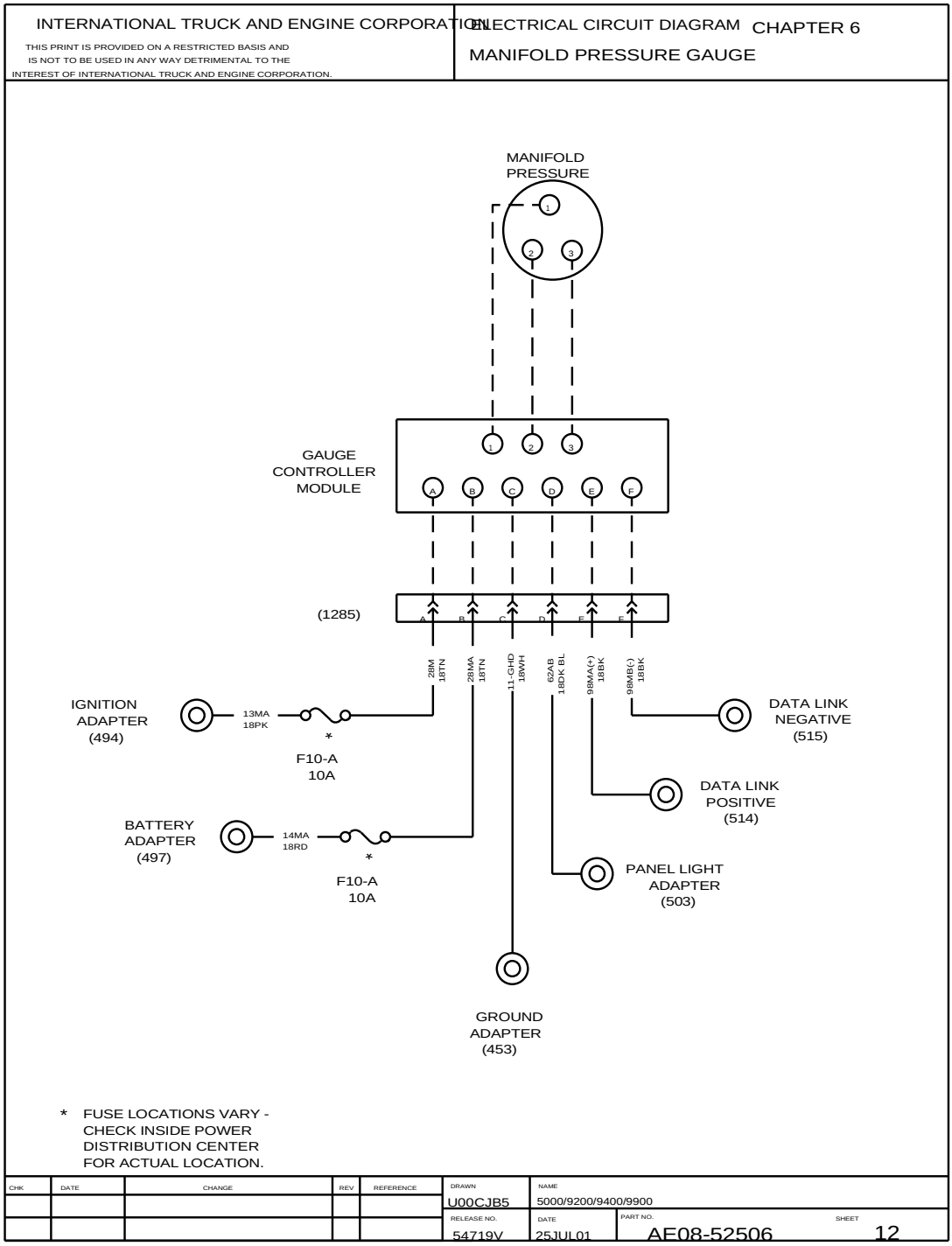

Figure 51 Manifold Pressure Gauge

7. WARNING LIGHTS (CHAPTER 7)

7.1. AIR SUSPENSION RELEASE WARNING LIGHT, P. 1

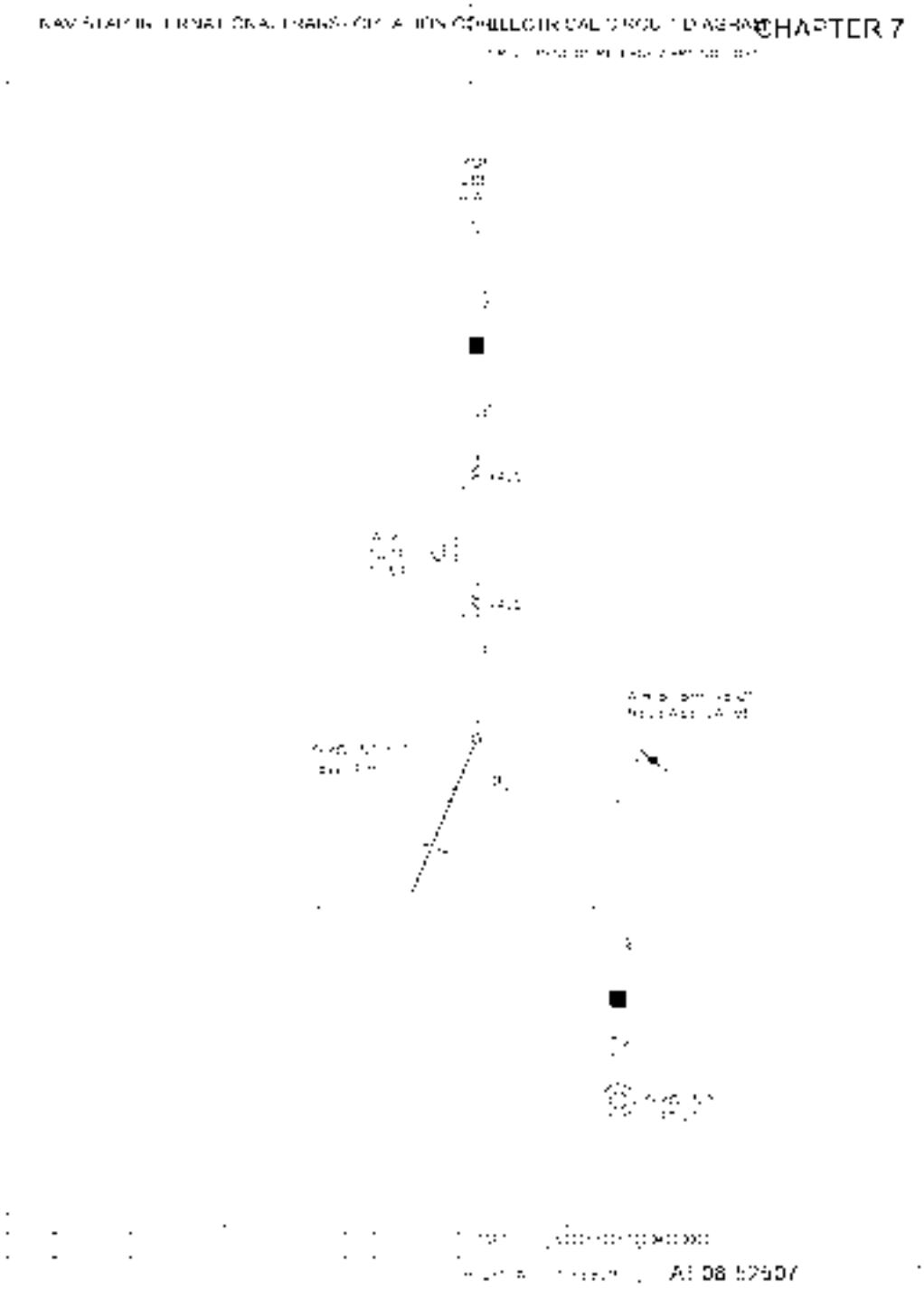

Figure 52 Air Suspension Release Warning Light

7.2. ENGINE OIL PRESSURE WARNING LIGHT, P. 2

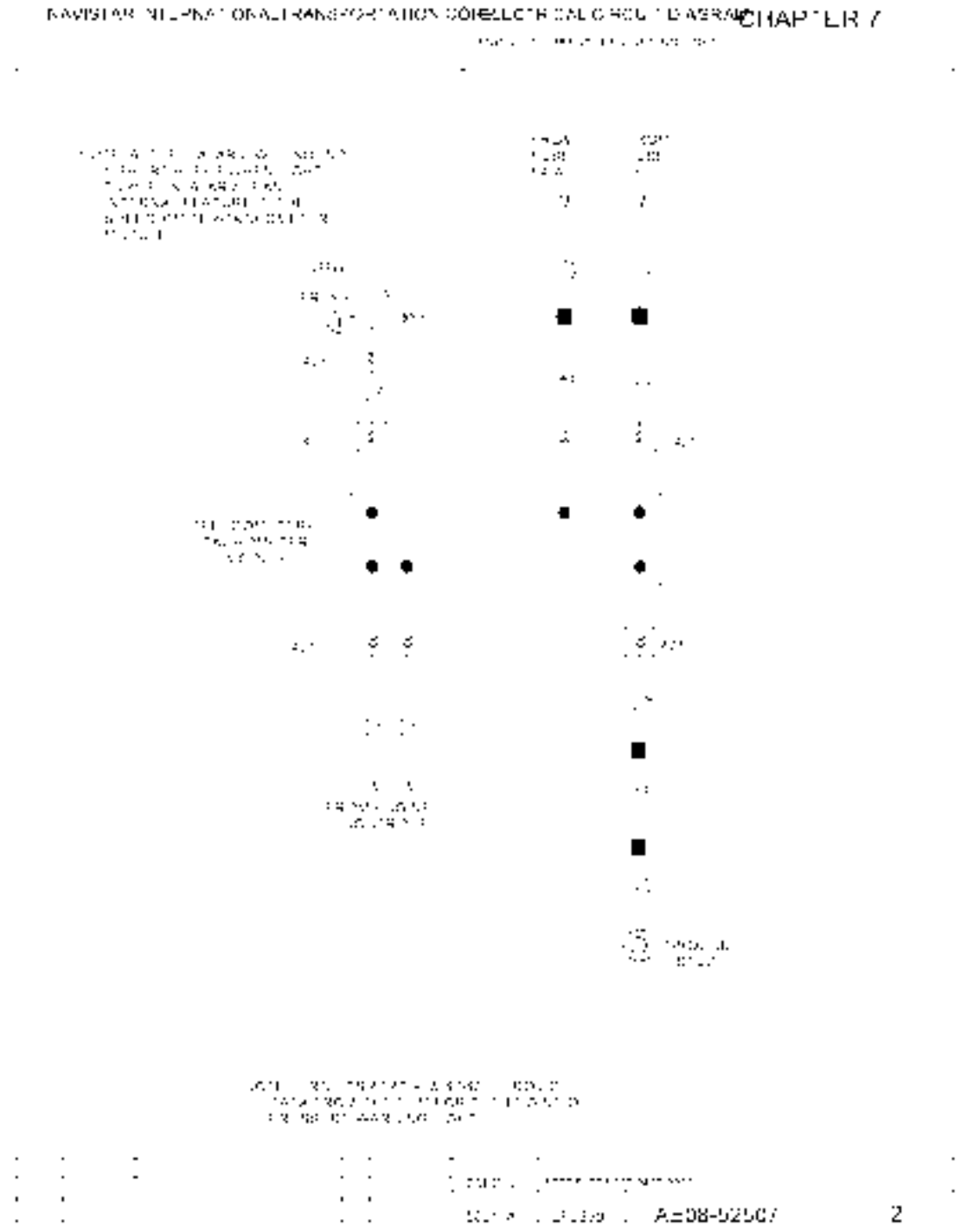

Figure 53 Engine Oil Pressure Warning Light

7.3. ENGINE WATER TEMPERATURE WARNING LIGHT, P. 3

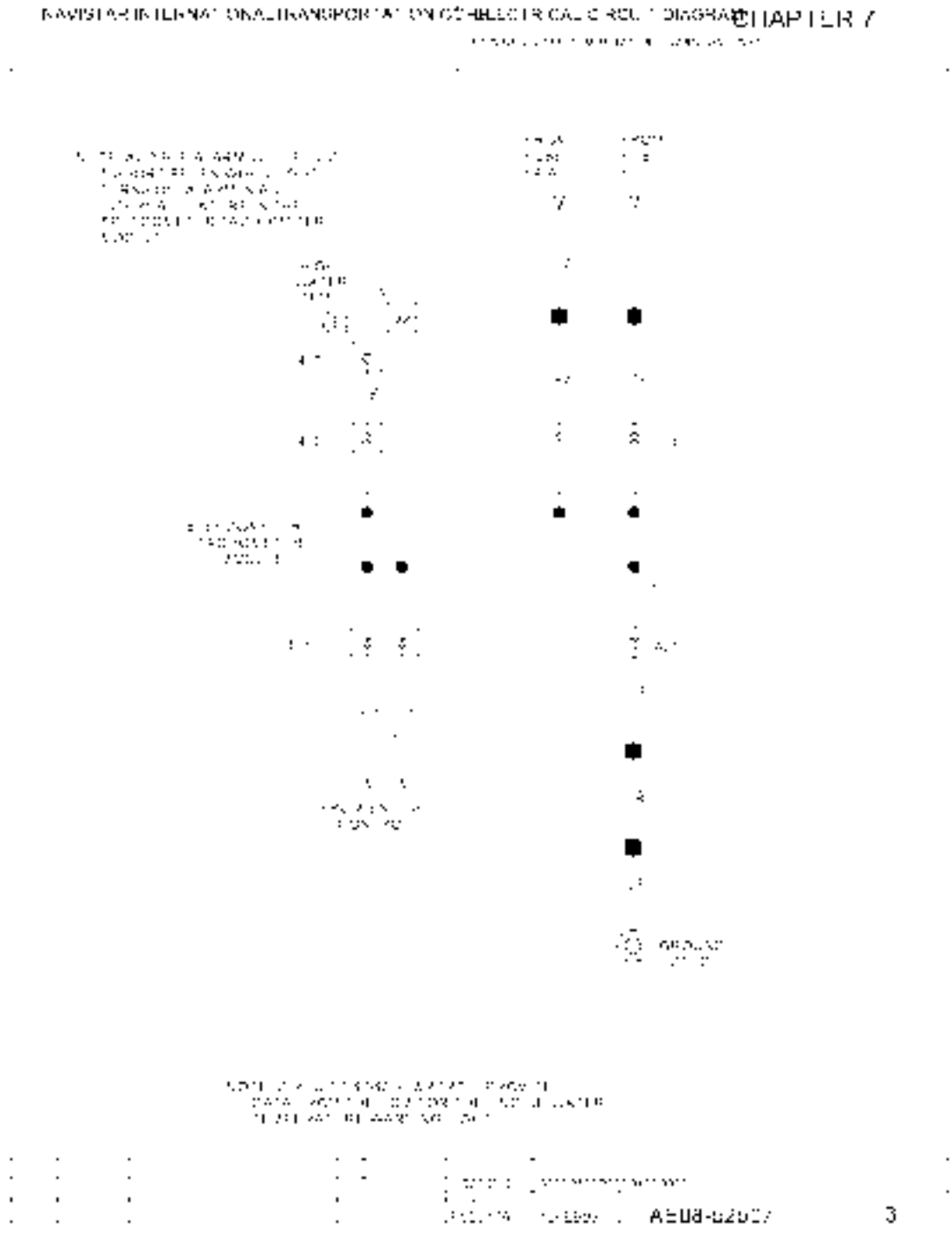

Figure 54 Engine Water Temperature Warning Light

7.4. LOW AIR PRESSURE WARNING LIGHT, P. 4

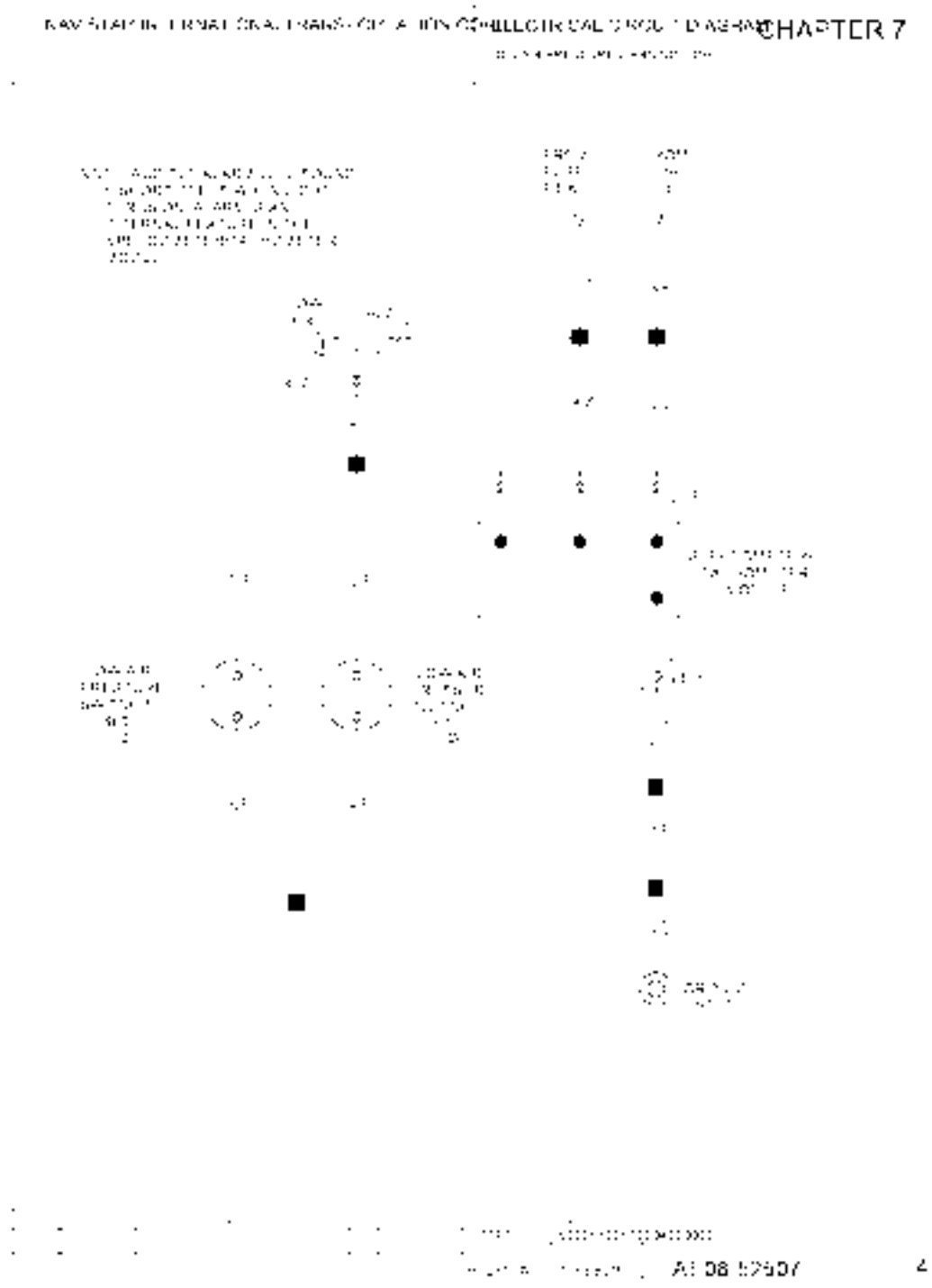

Figure 55 Low Air Pressure Warning Light

7.5. LOW FUEL LEVEL WARNING LIGHT, P. 5

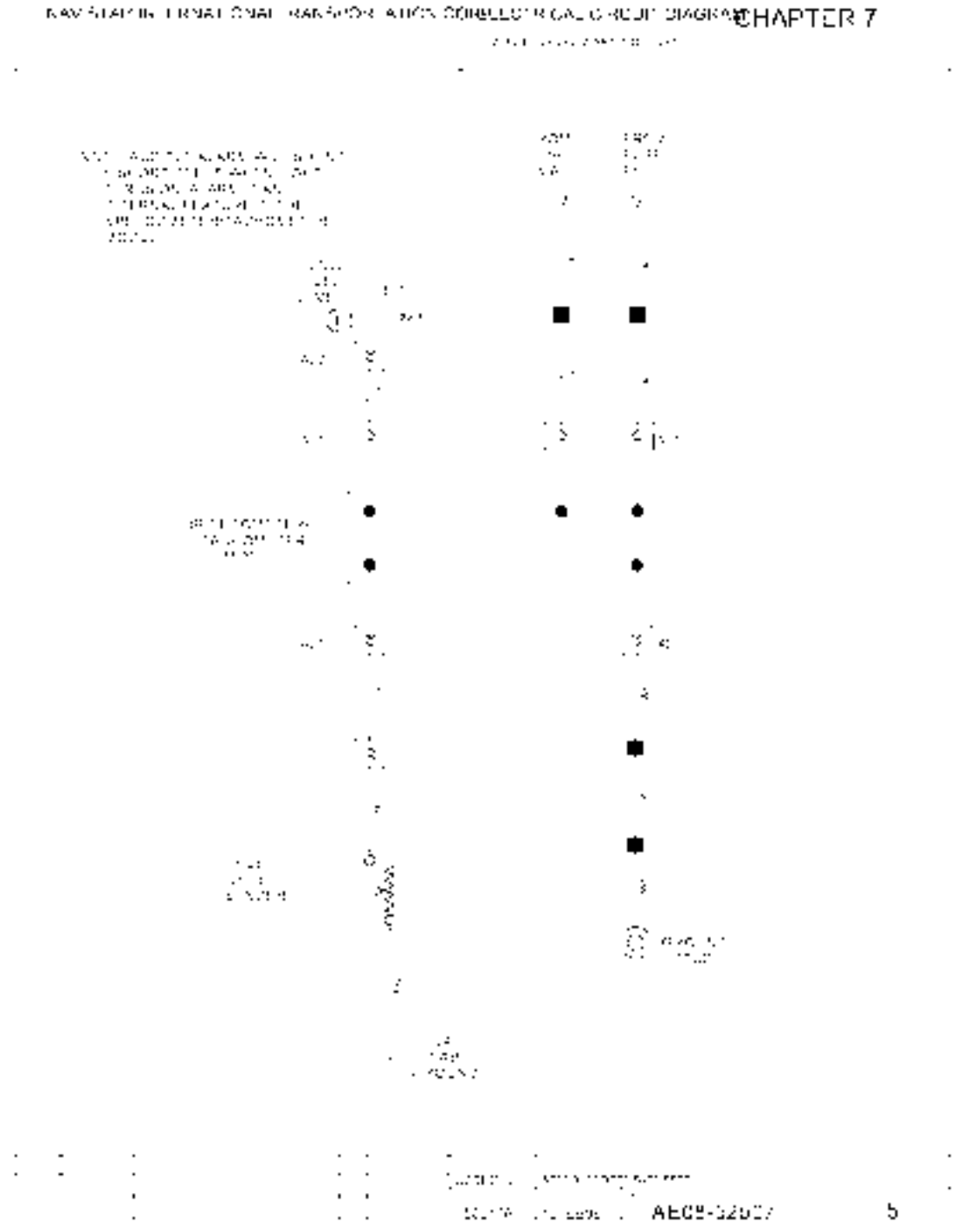

Figure 56 Low Fuel Level Warning Light

7.6. POWER DIVIDER LOCK (PDL) WARNING LIGHT AND BUZZER, P. 6

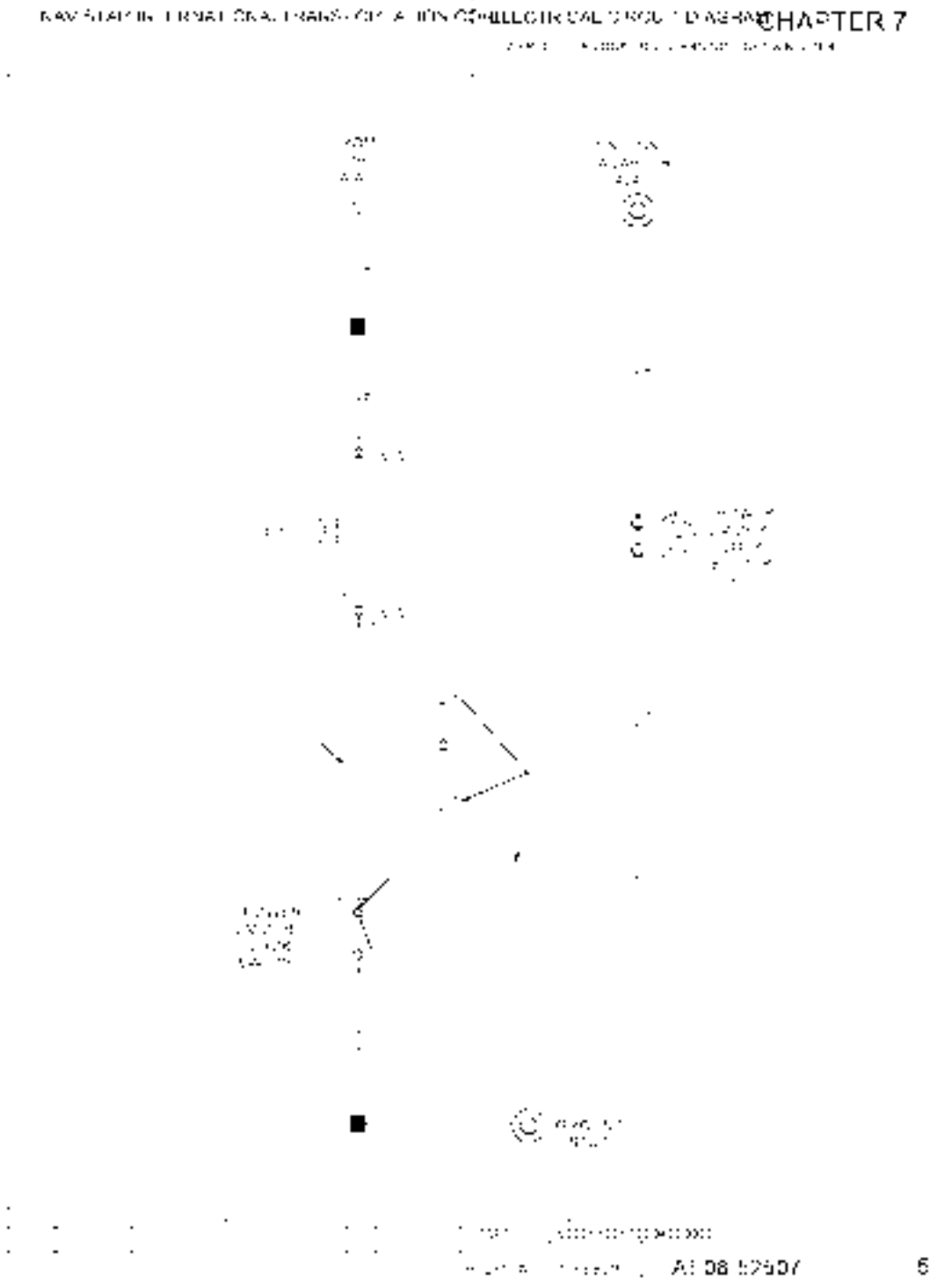

Figure 57 Power Divider Lock (PDL) Warning Light and Buzzer

7.7. DIFFERENTIAL LOCK WARN LIGHT — 4X2, P. 7

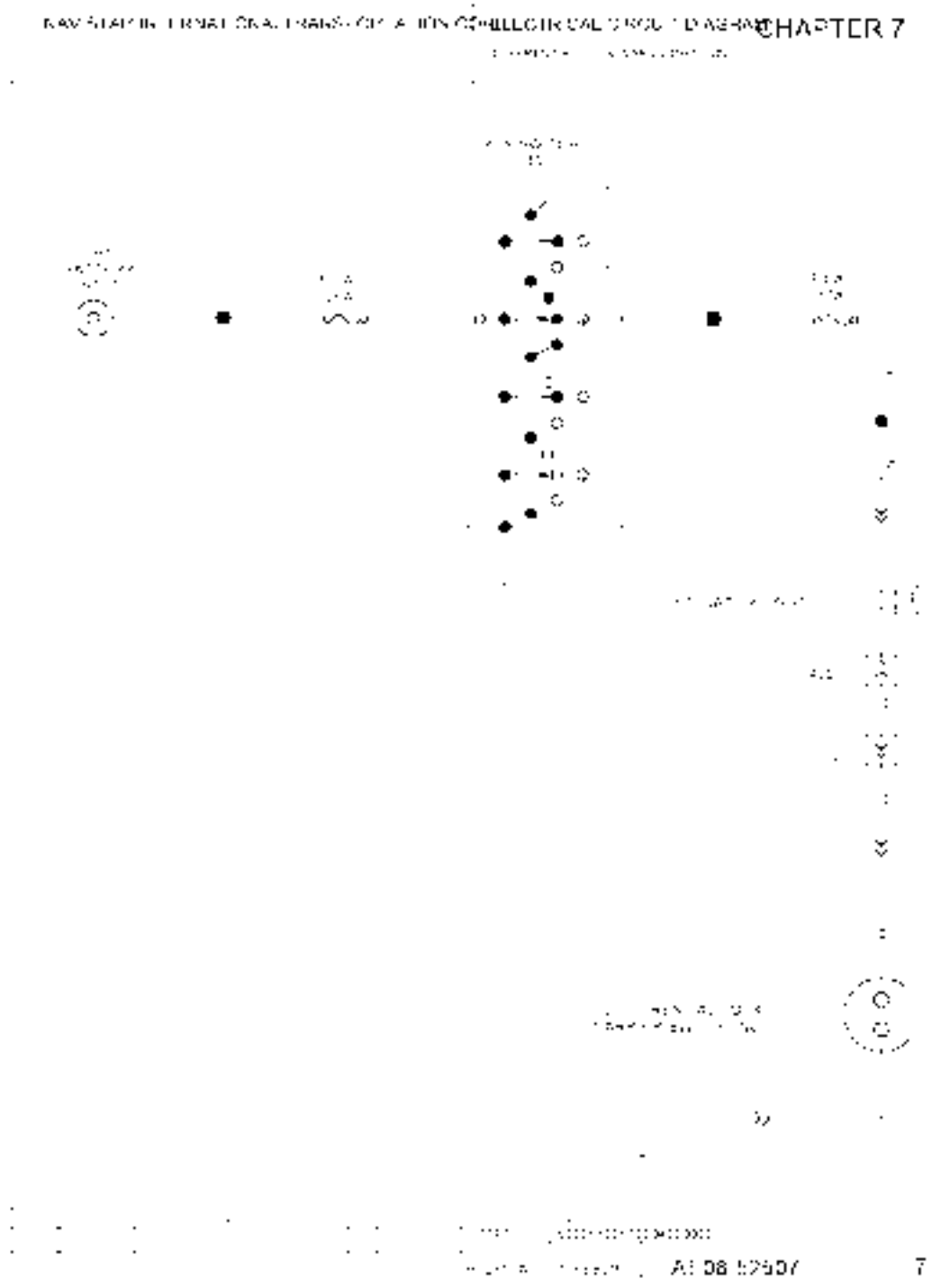

Figure 58 Differential Lock Warn Light — 4x2

7.8. DIFFERENTIAL LOCK WARN LIGHT — 6X4, P. 8

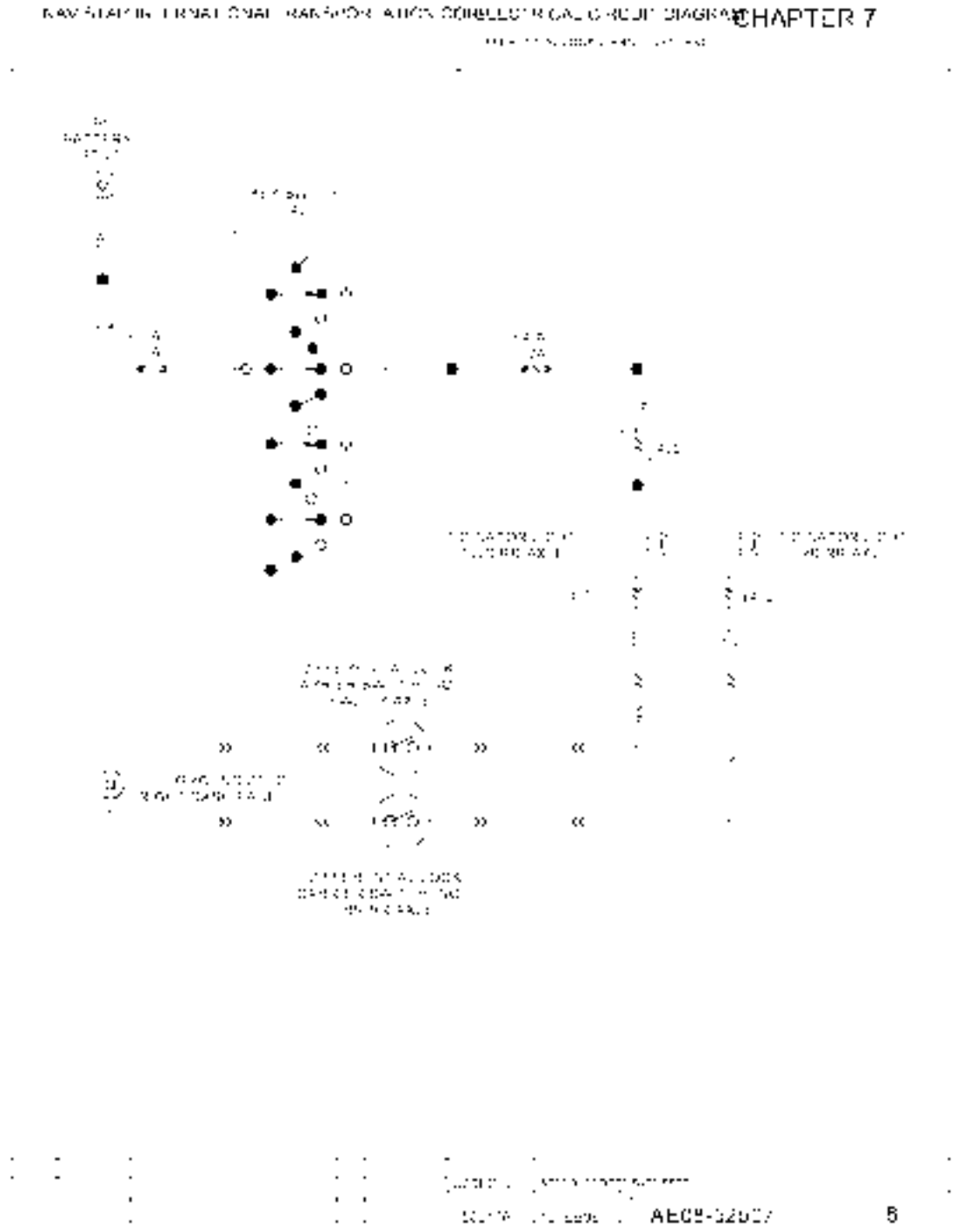

Figure 59 Differential Lock Warn Light — 6x4

8. CAB ACCESSORIES (CHAPTER 8)

8.1. CIGAR LIGHTER, P. 1

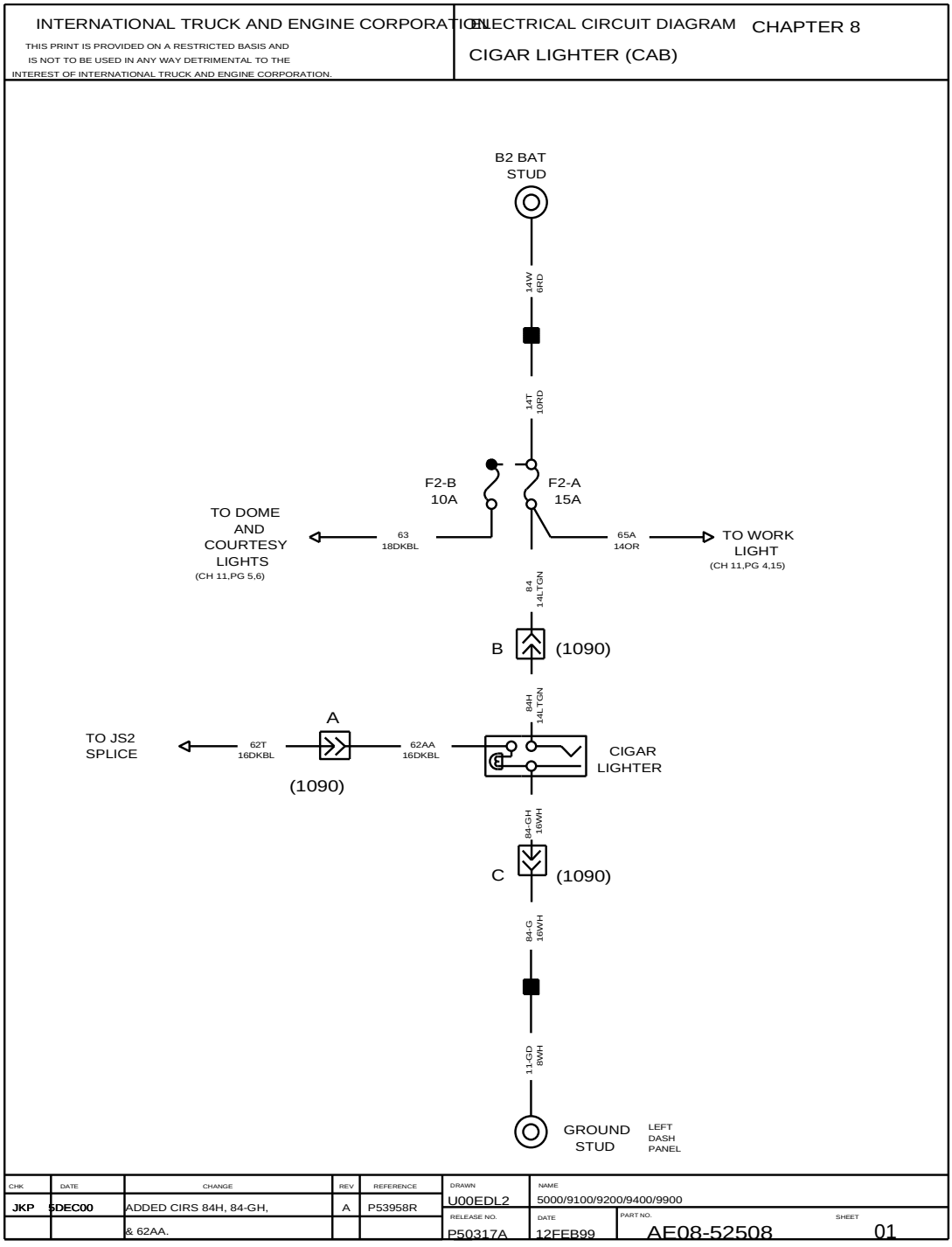

Figure 60 Cigar Lighter

8.2. CLOCK, P. 2

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ELECTRICAL CIRCUIT DIAGRAM CHAPTER 8

CLOCK (CAB)

LEFT BLANK INTENTIONALLY

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
JKP	4MAR02	REMOVED GEOMETRY	A	55093F	U00EDL2	5000/9100/9200/9400/9900
					RELEASE NO. P50317A	DATE 12FEB99

PART NO. AE08-52508 SHEET 02

Figure 61 Clock

8.3. ELECTRIC WINDOW — RIGHT, P. 3

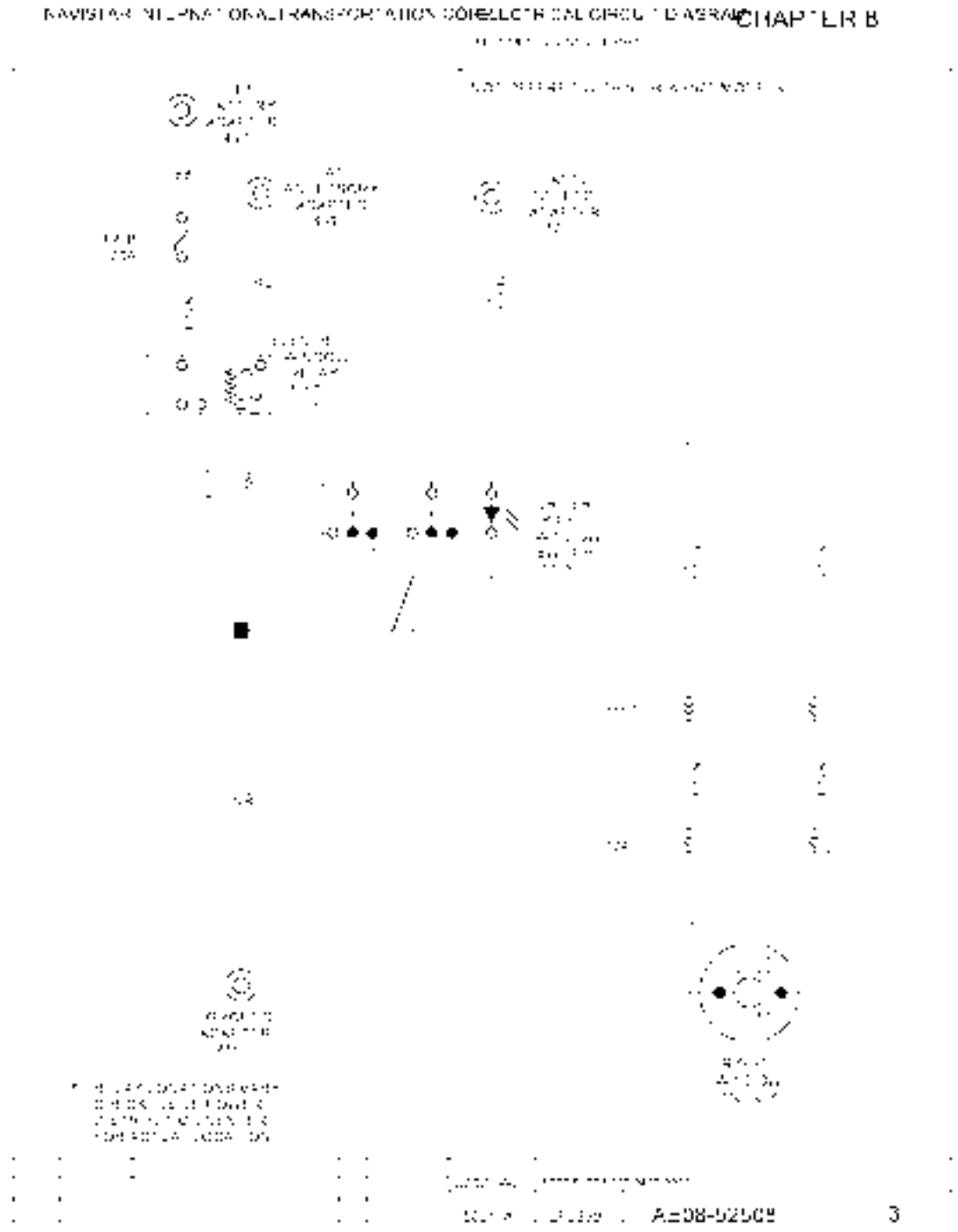

Figure 62 Electric Window — Right

8.4. ELECTRIC WINDOW — RIGHT AND LEFT, P. 4

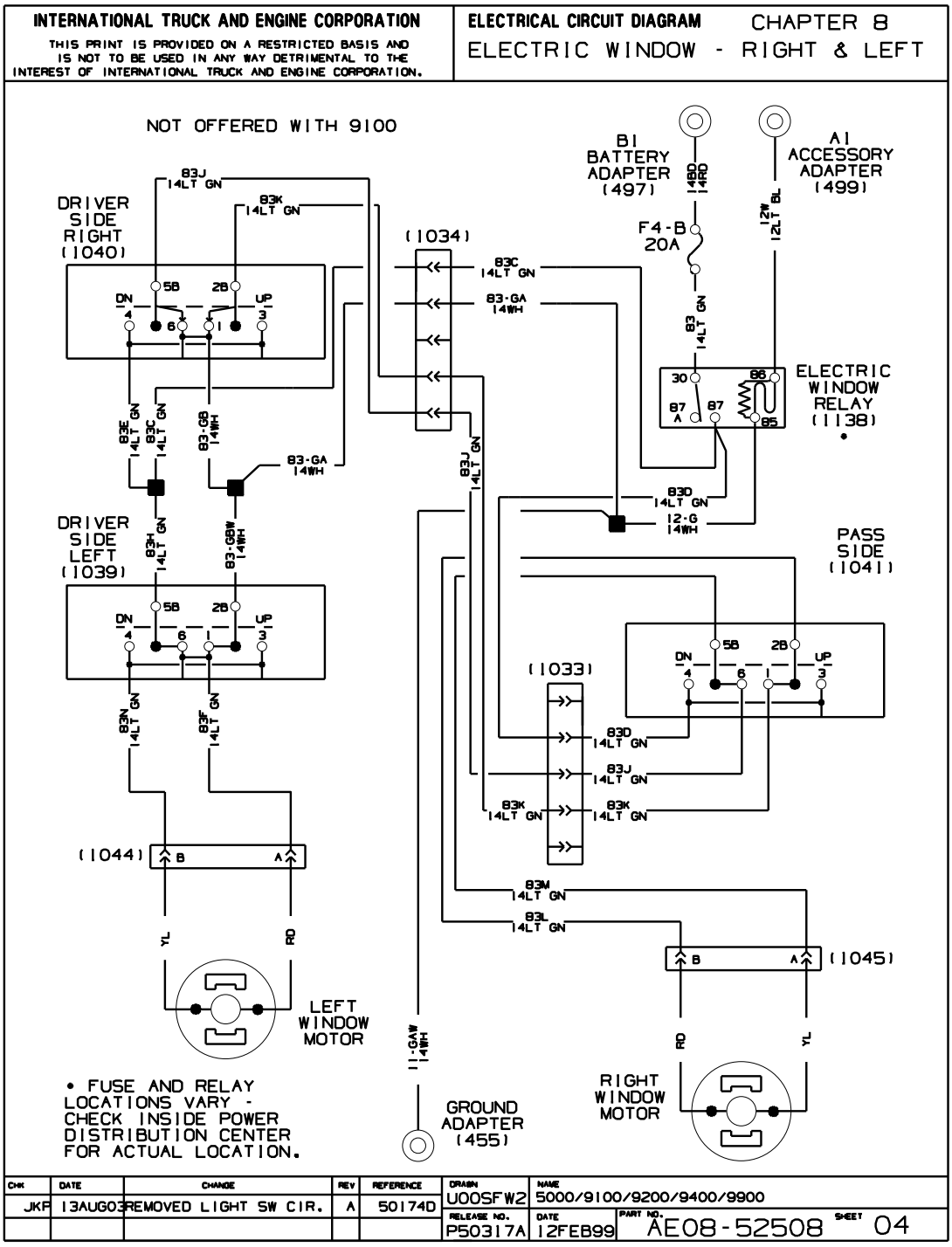

Figure 63 Electric Window — Right and Left

8.5. DEFROSTER FAN(S), P. 5

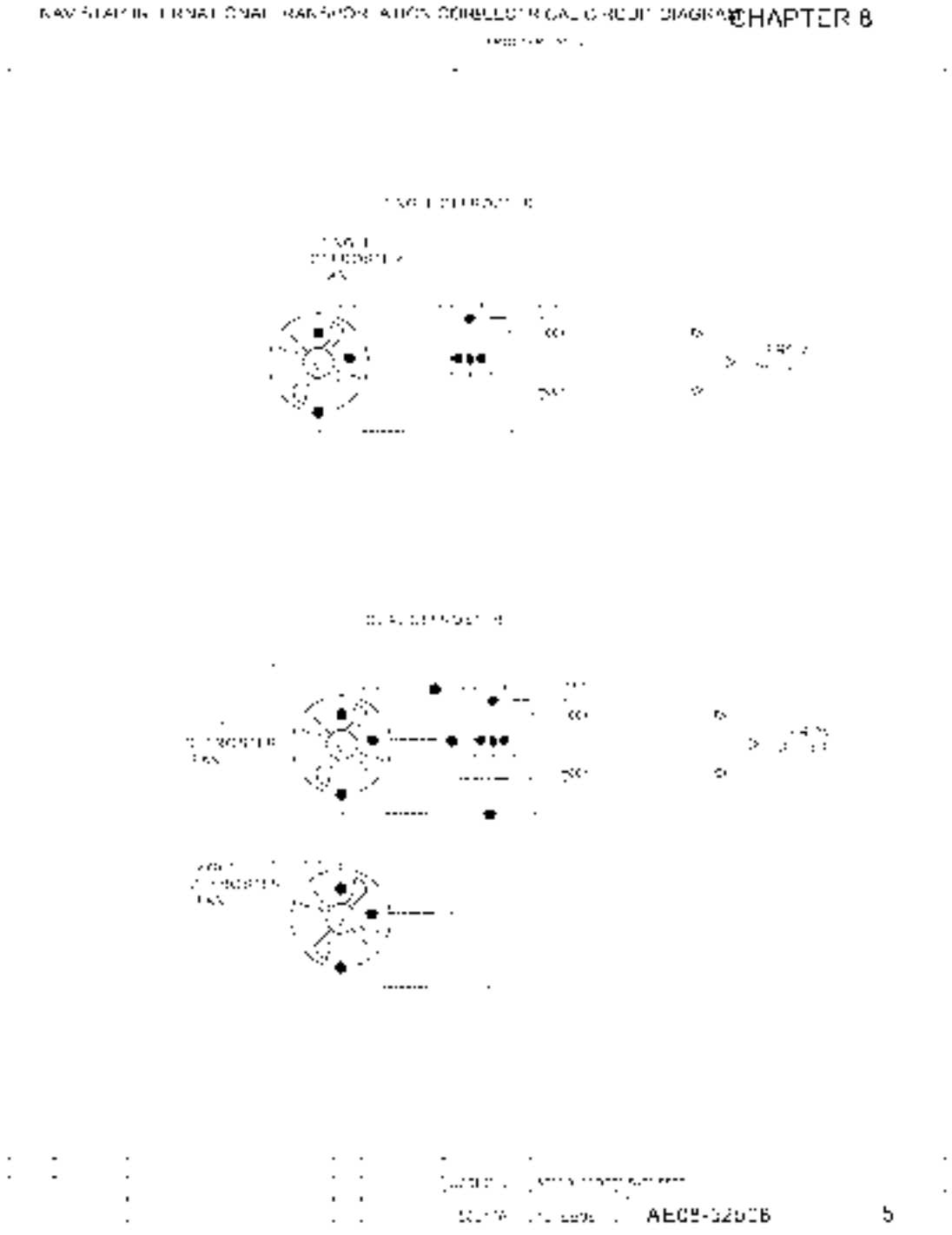

Figure 64 Defroster Fan(s)

8.6. ELECTRIC WINDSHIELD WIPERS WITH INTERMITTENT WIPE AND WASH, P. 6

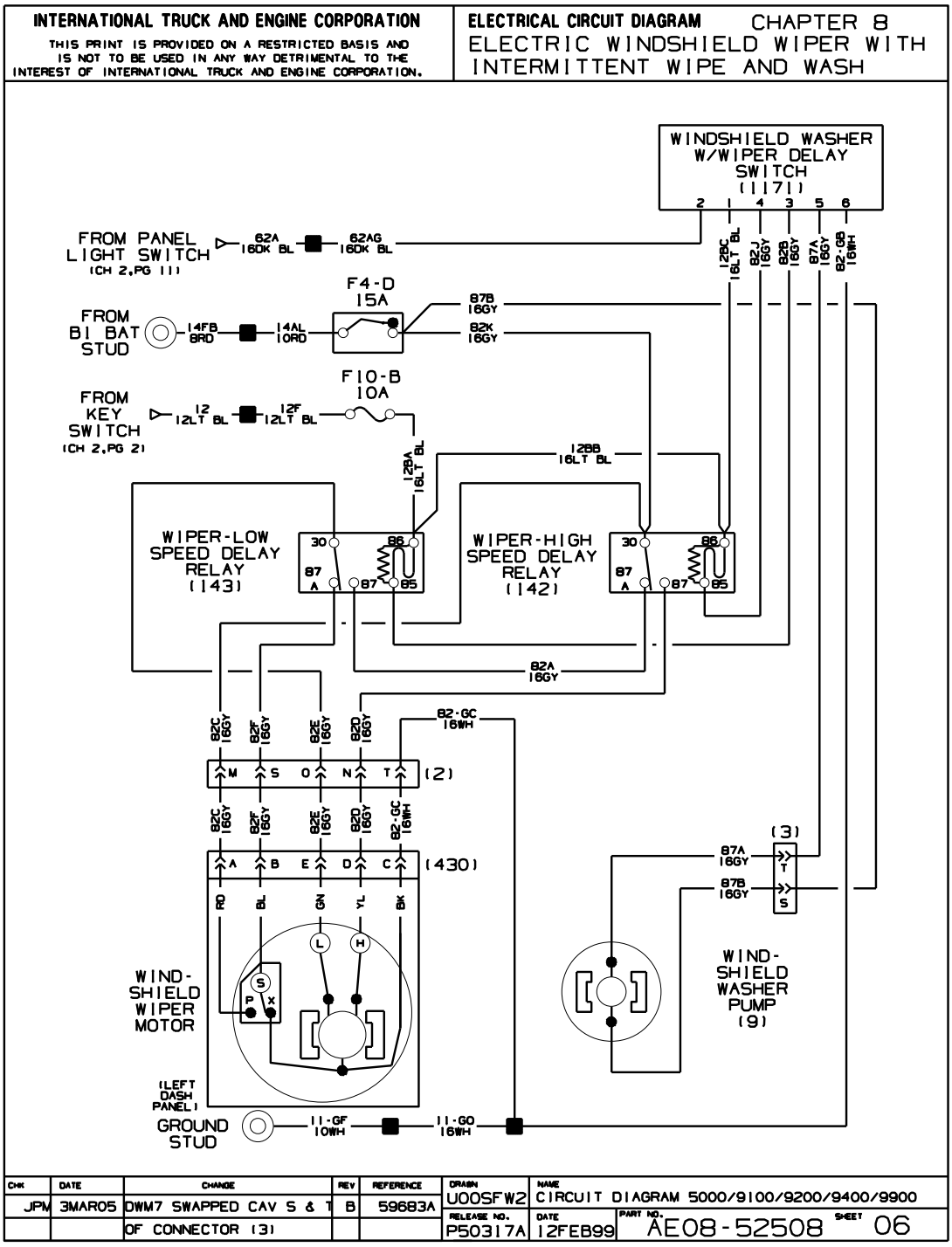

Figure 65 Electric Windshield Wipers with Intermittent Wipe and Wash

8.7. HORN, P. 7

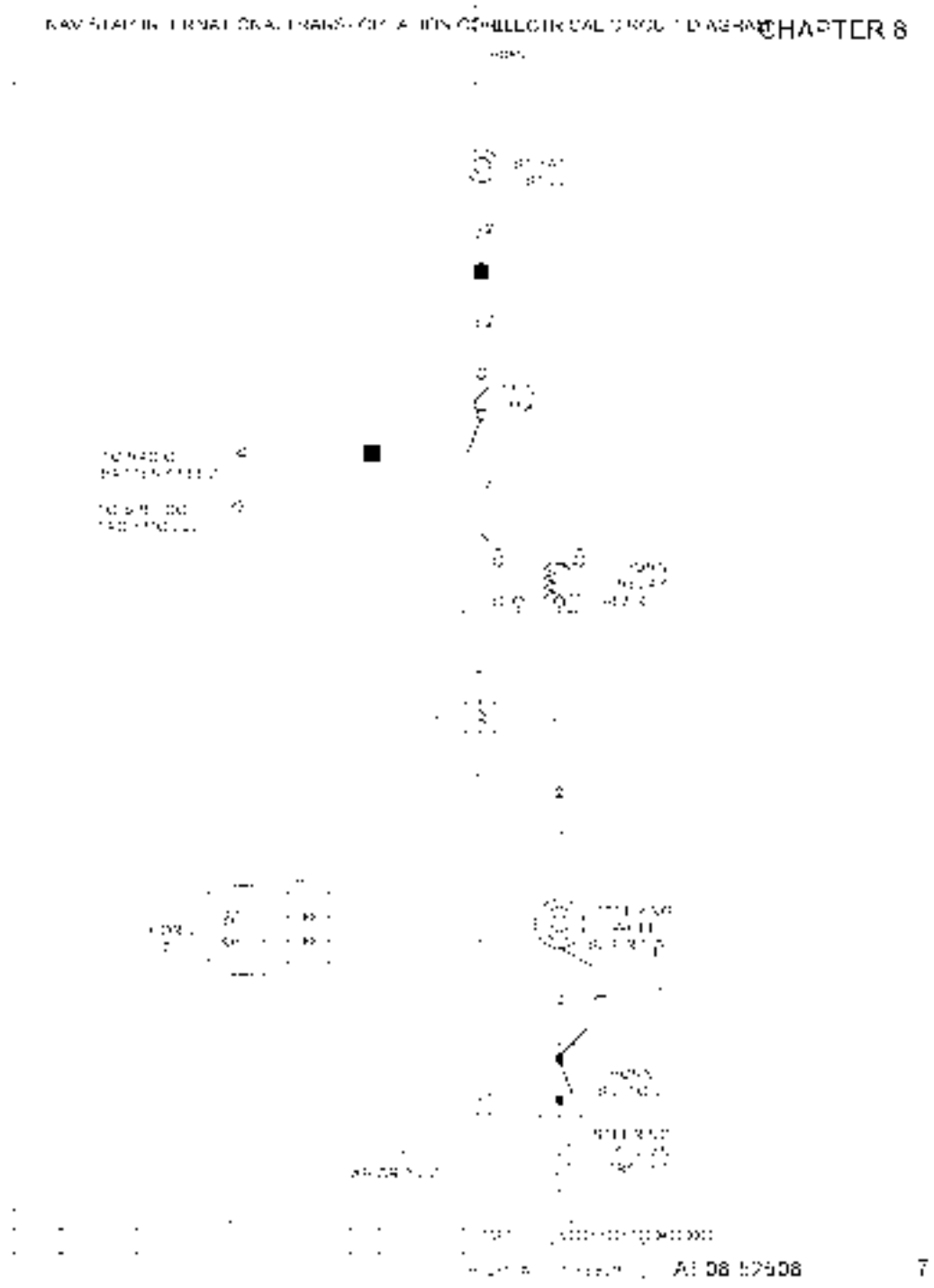

Figure 66 Horn

8.8. MIRROR LIGHTS AND HEATED MIRRORS, P. 8

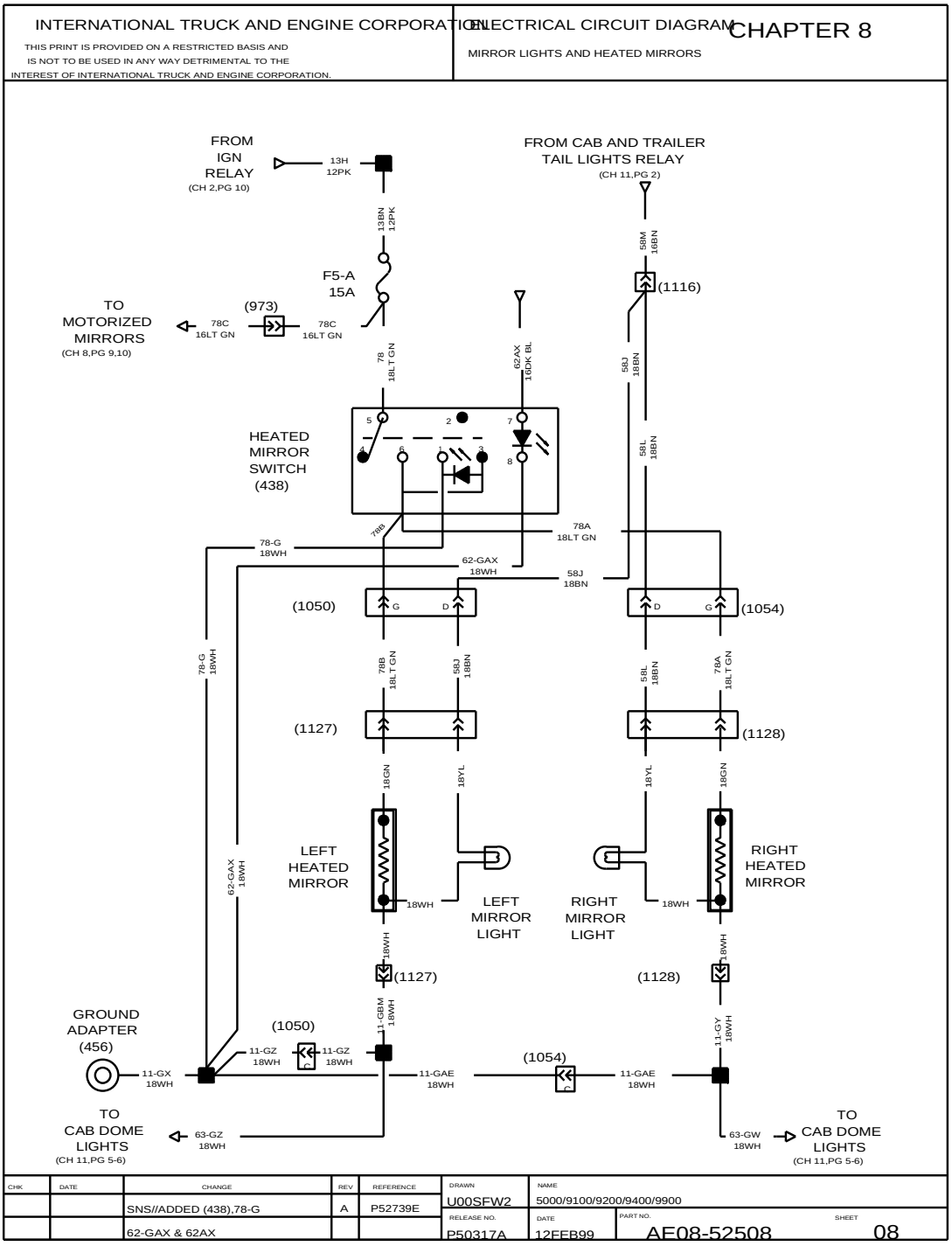

Figure 67 Mirror Lights and Heated Mirrors

8.9. RIGHT MOTORIZED MIRROR, P. 9

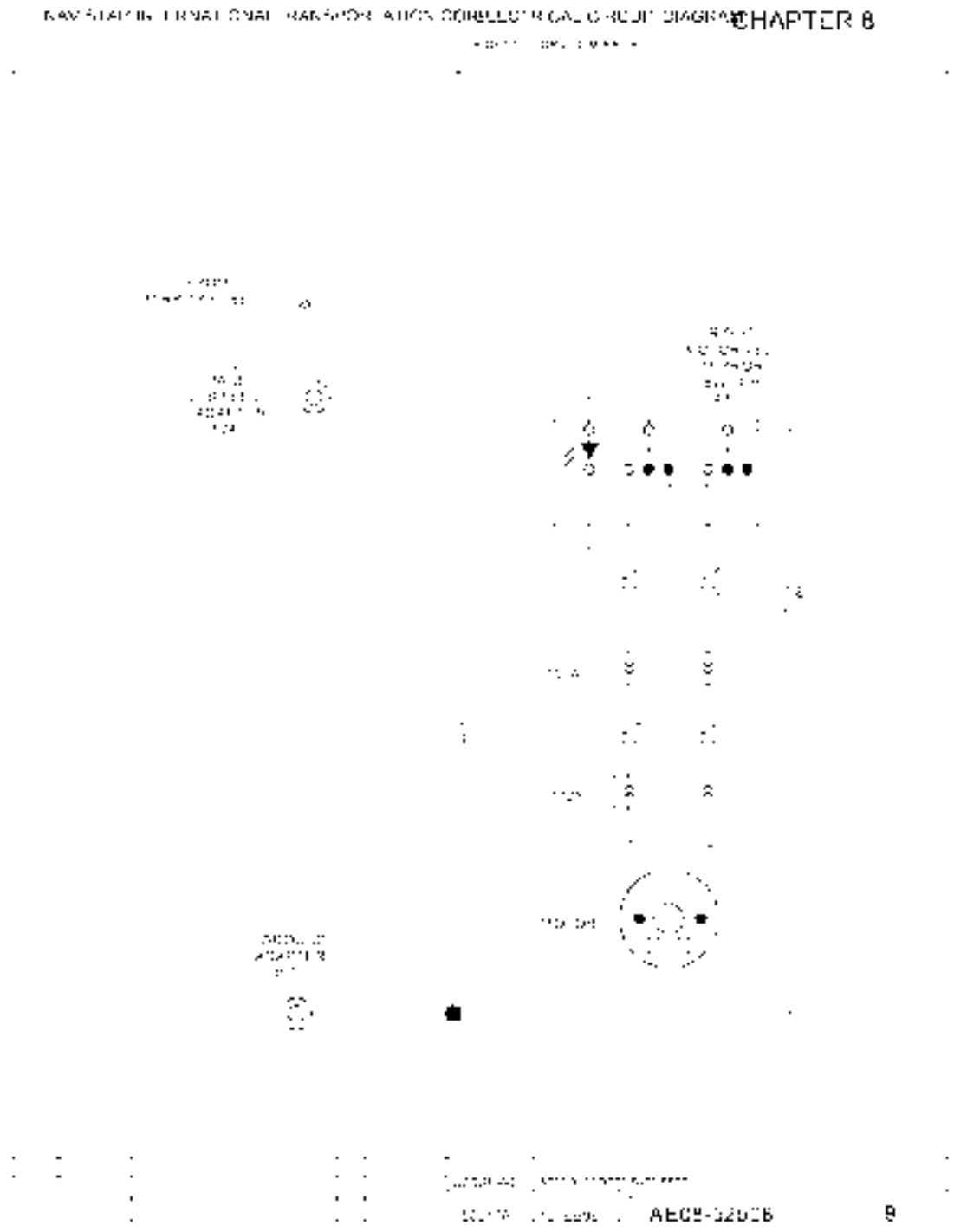

Figure 68 Right Motorized Mirror

8.10. DUAL AXIS MOTORIZED MIRRORS, P. 10

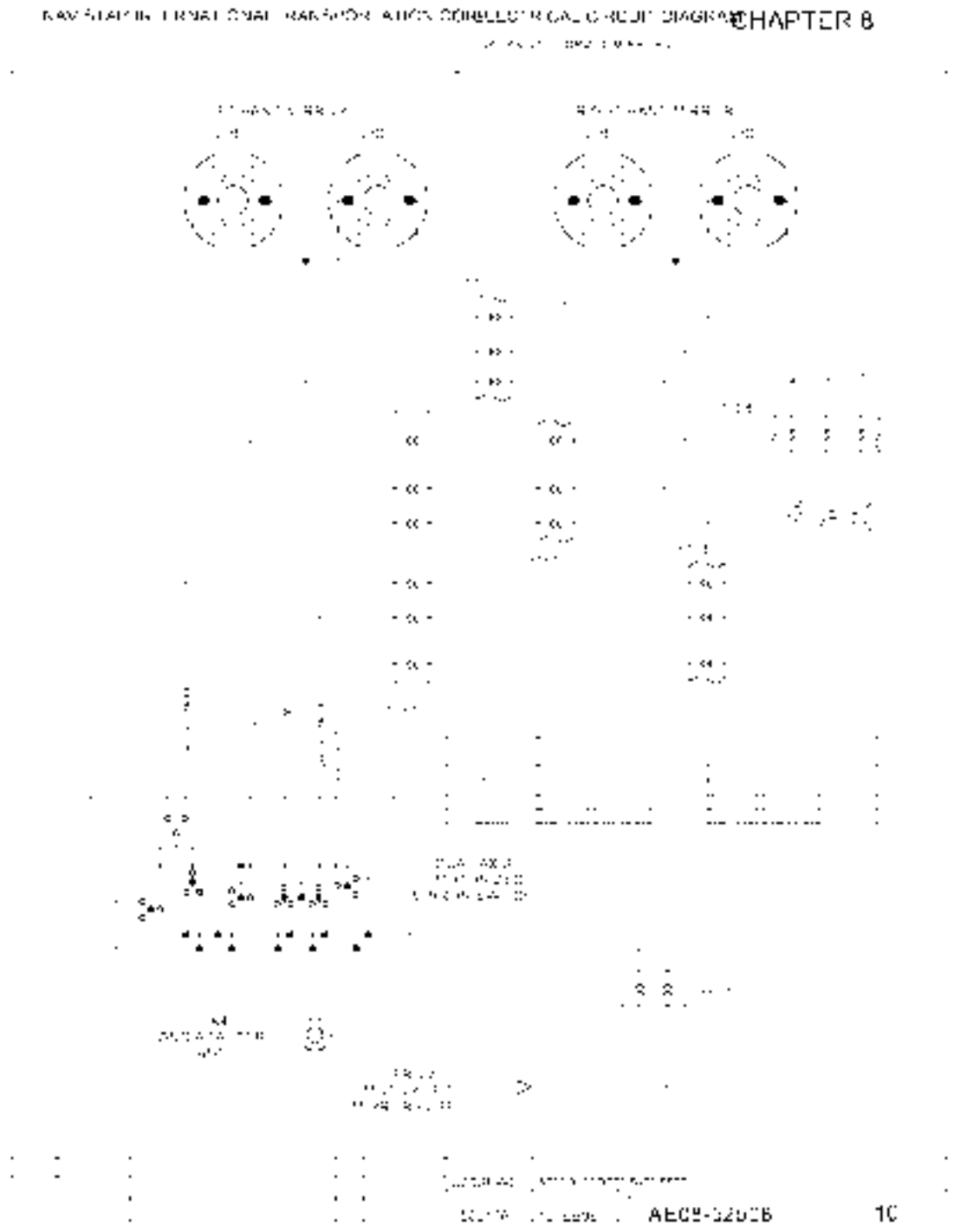

Figure 69 Dual Axis Motorized Mirrors

8.11. POWER SOURCE (CB), P. 11

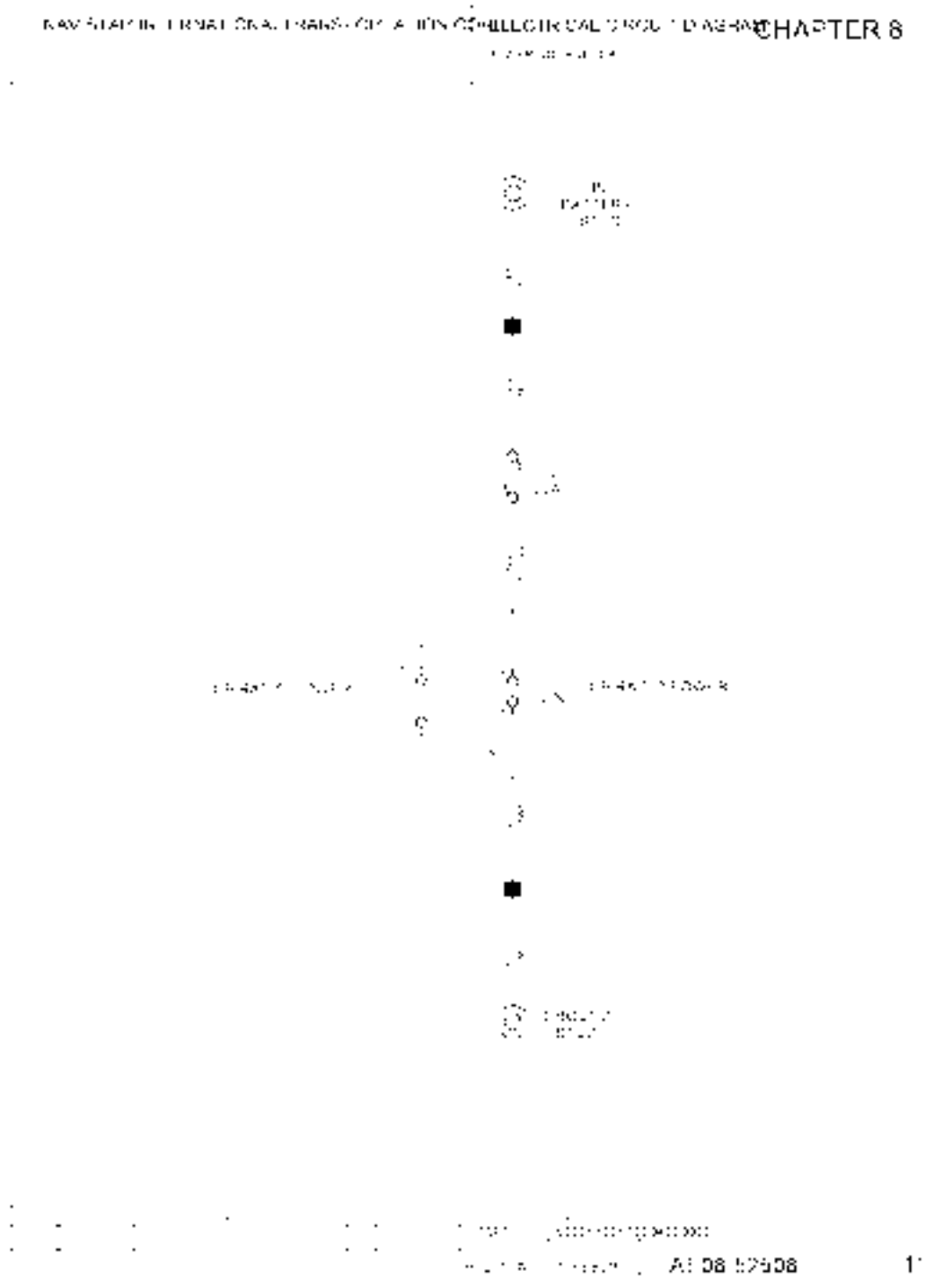

Figure 70 Power Source (CB)

8.12. RADIO-CB ACCOMMODATION PACKAGE, P. 12

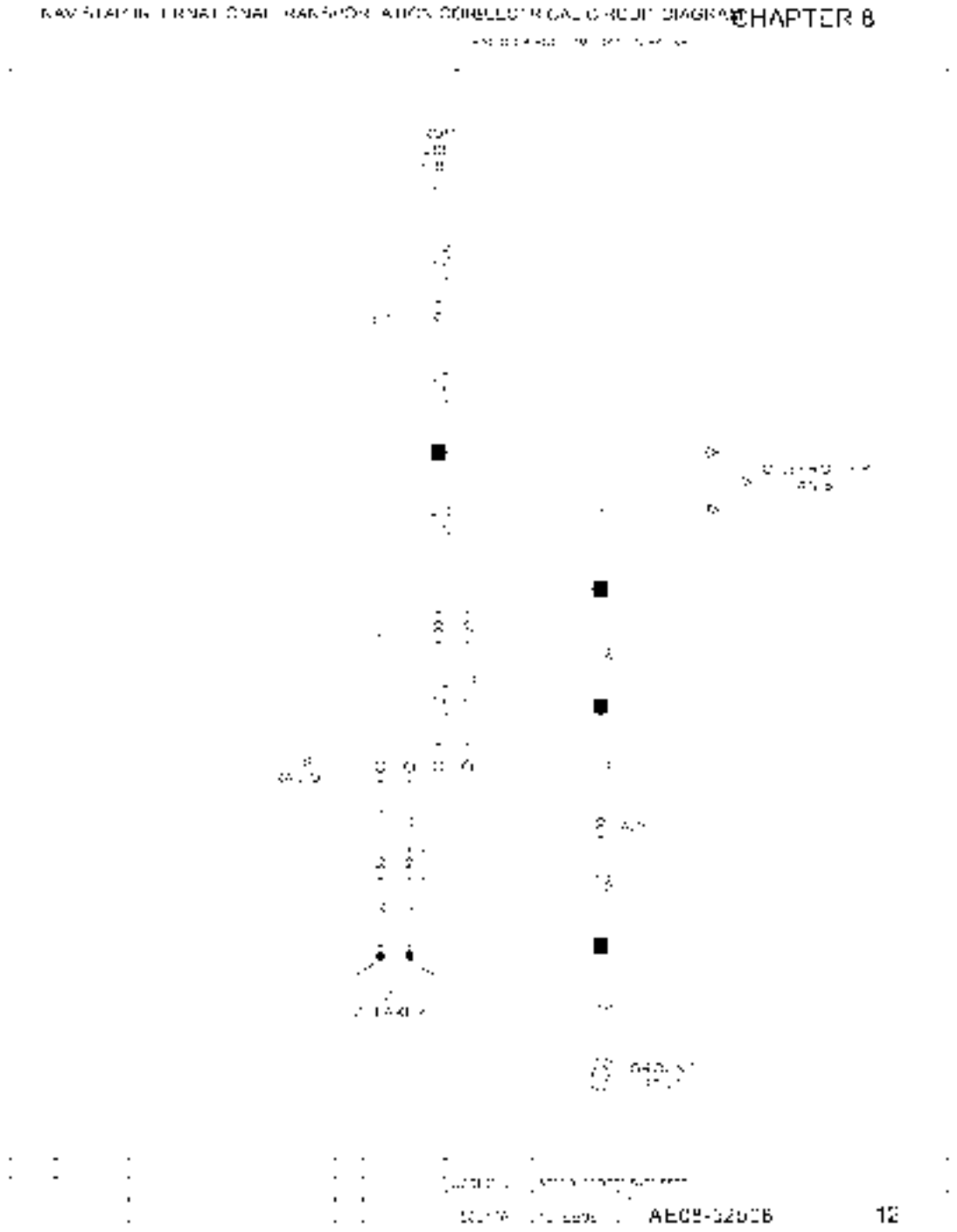

Figure 71 Radio-CB Accommodation Package

8.13. RADIO-CAB, SPEAKERS, P. 13

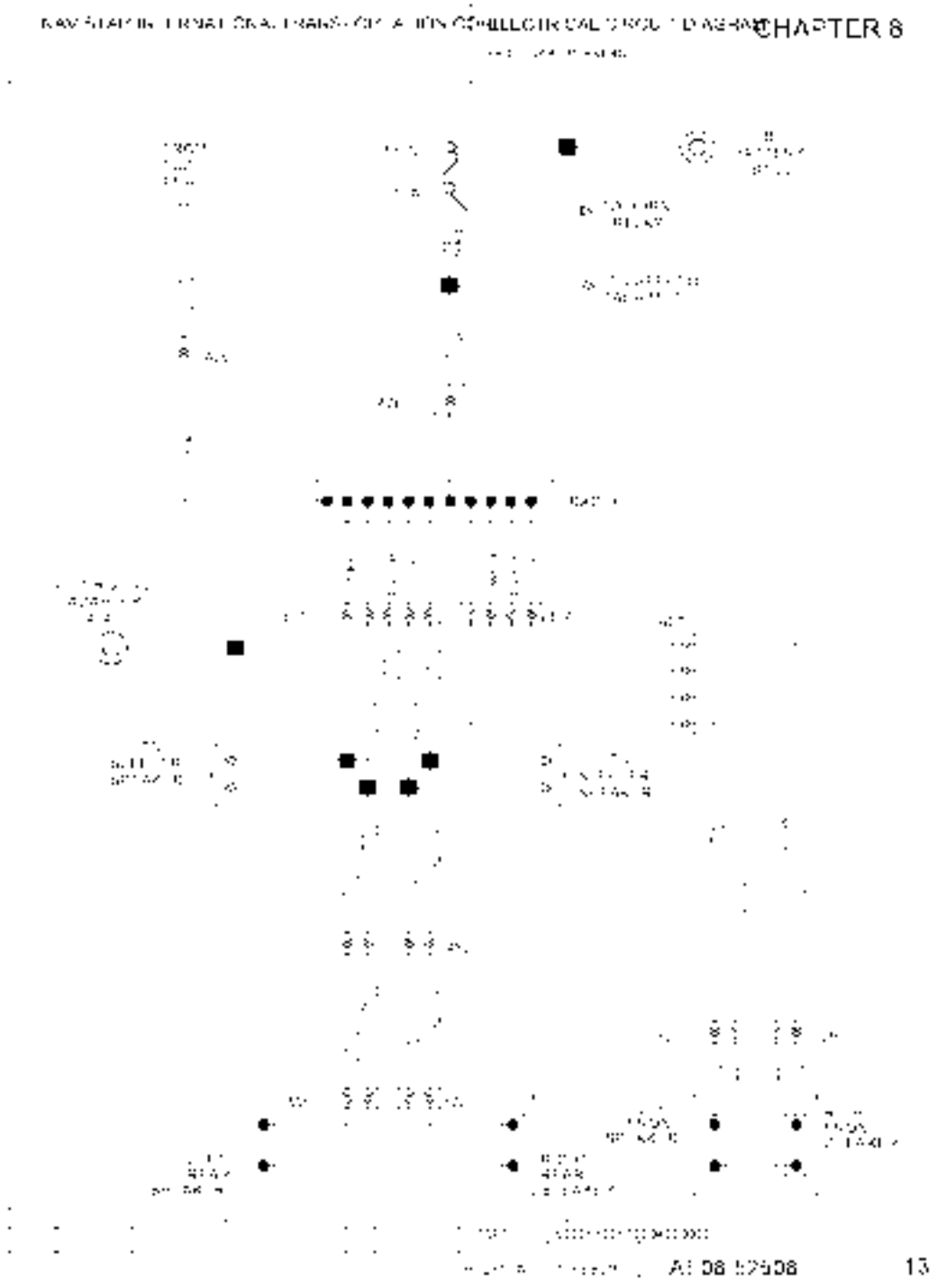

Figure 72 Radio-Cab Speakers

8.14. OWNER/OPERATOR SPARE SWITCH, P. 14

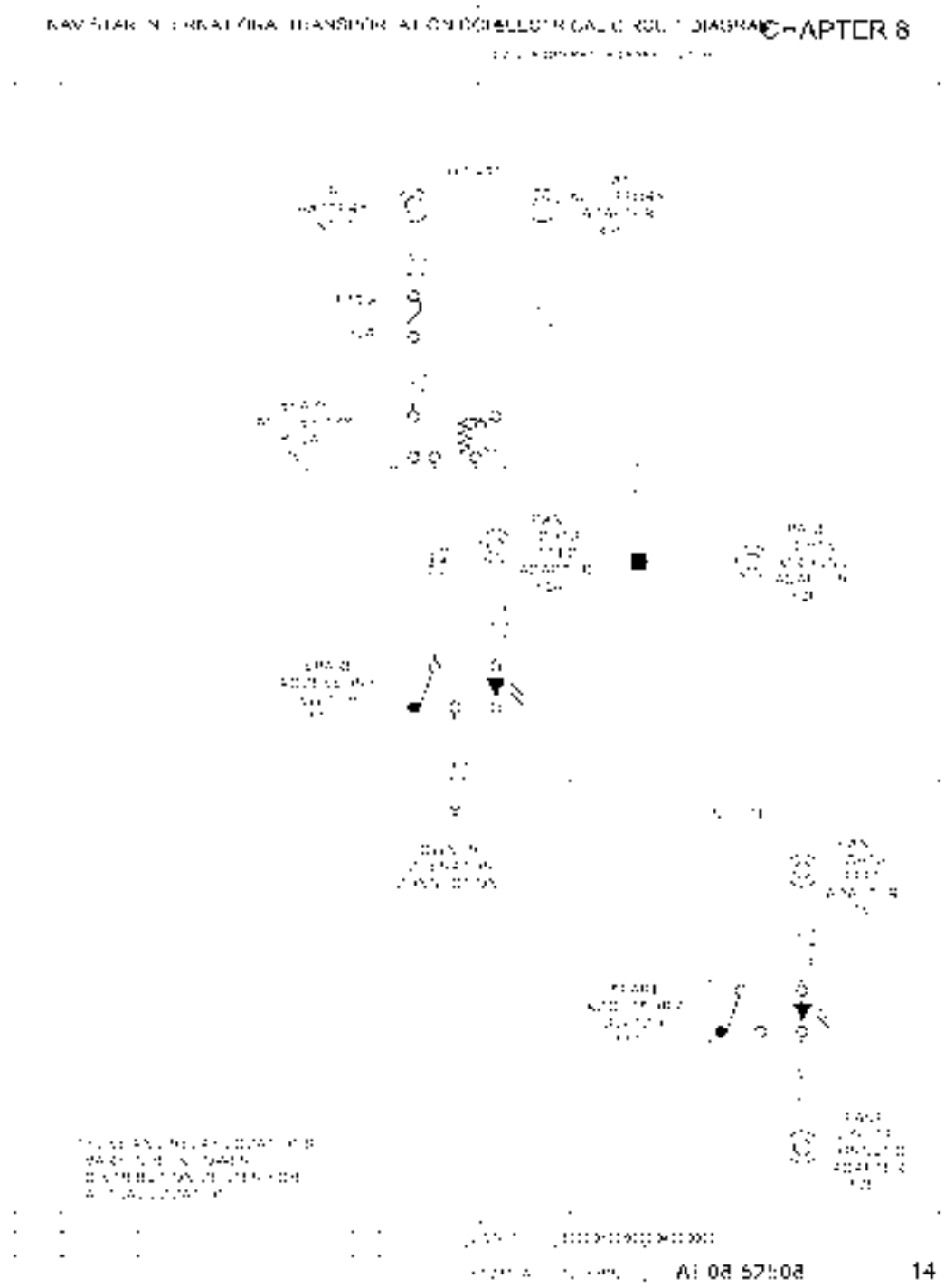

Figure 73 Owner/Operator Spare Switch

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

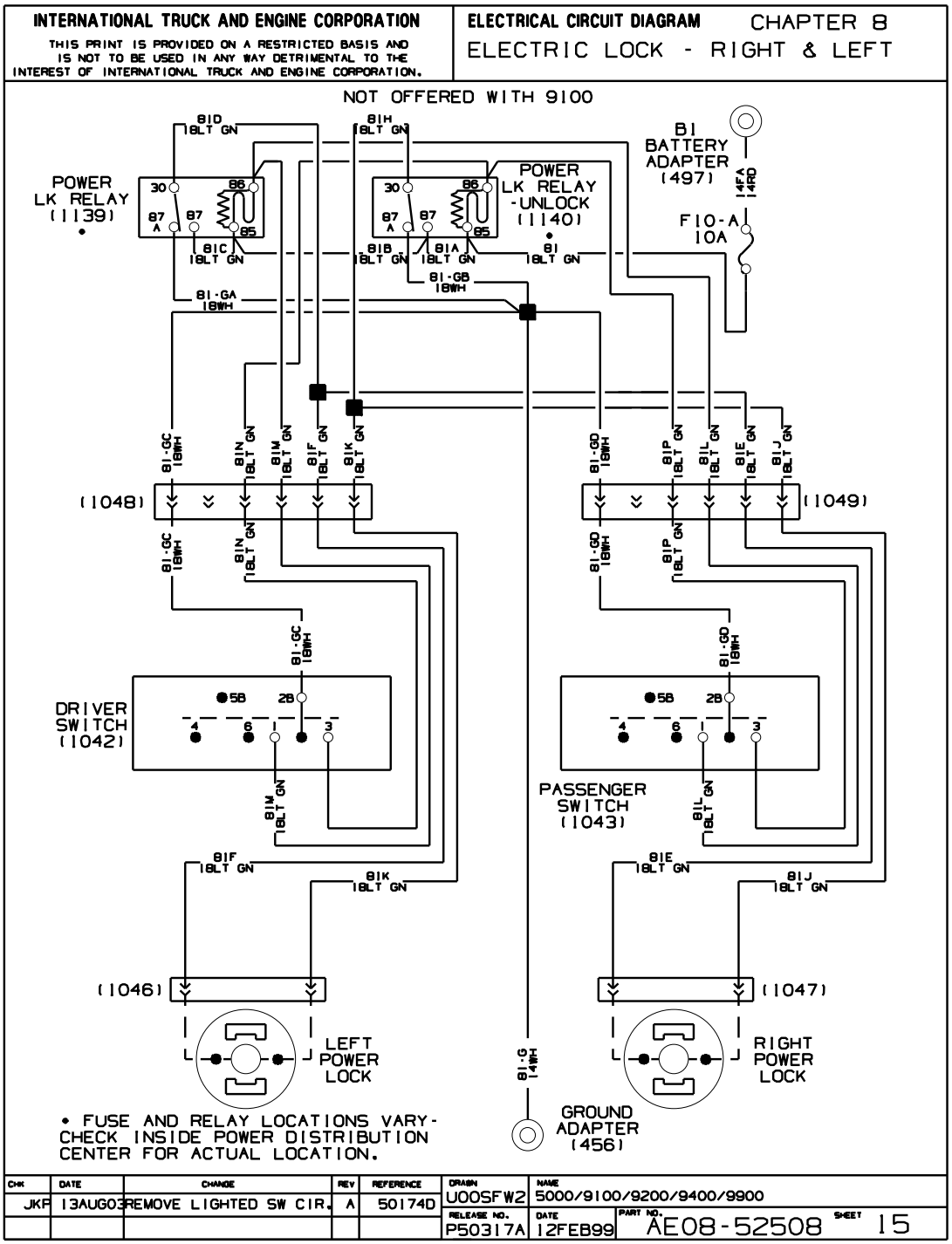

Figure 74 Electric Lock — Right and Left

8.16. INTERVISION DISPLAY, P. 16

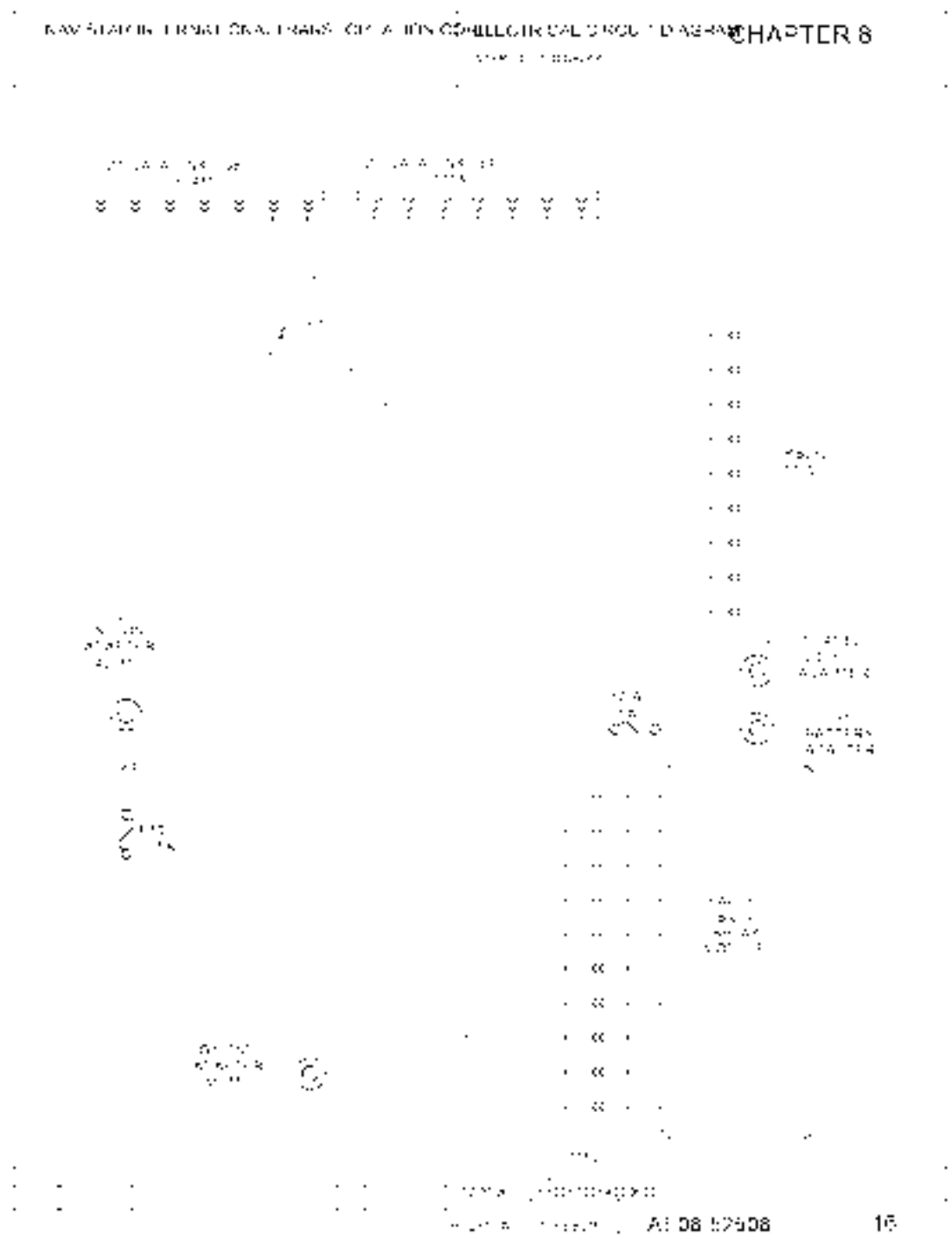

Figure 75 Intervision Display

8.17. EATON VORAD — COLLISION AVOIDANCE, P. 17

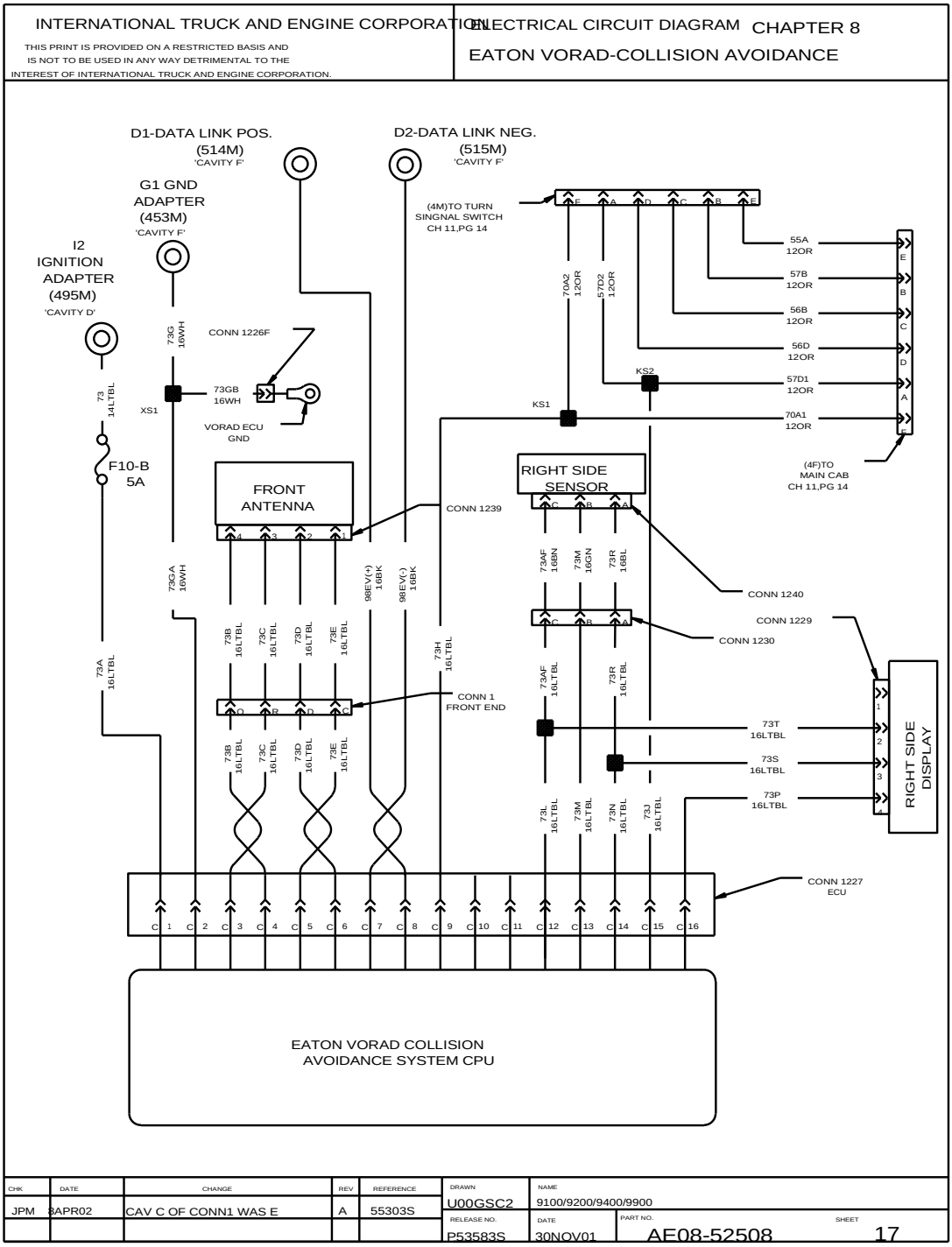

Figure 76 Eaton Vorad — Collision Avoidance

8.18. EATON VORAD — COLLISION AVOIDANCE, P. 18

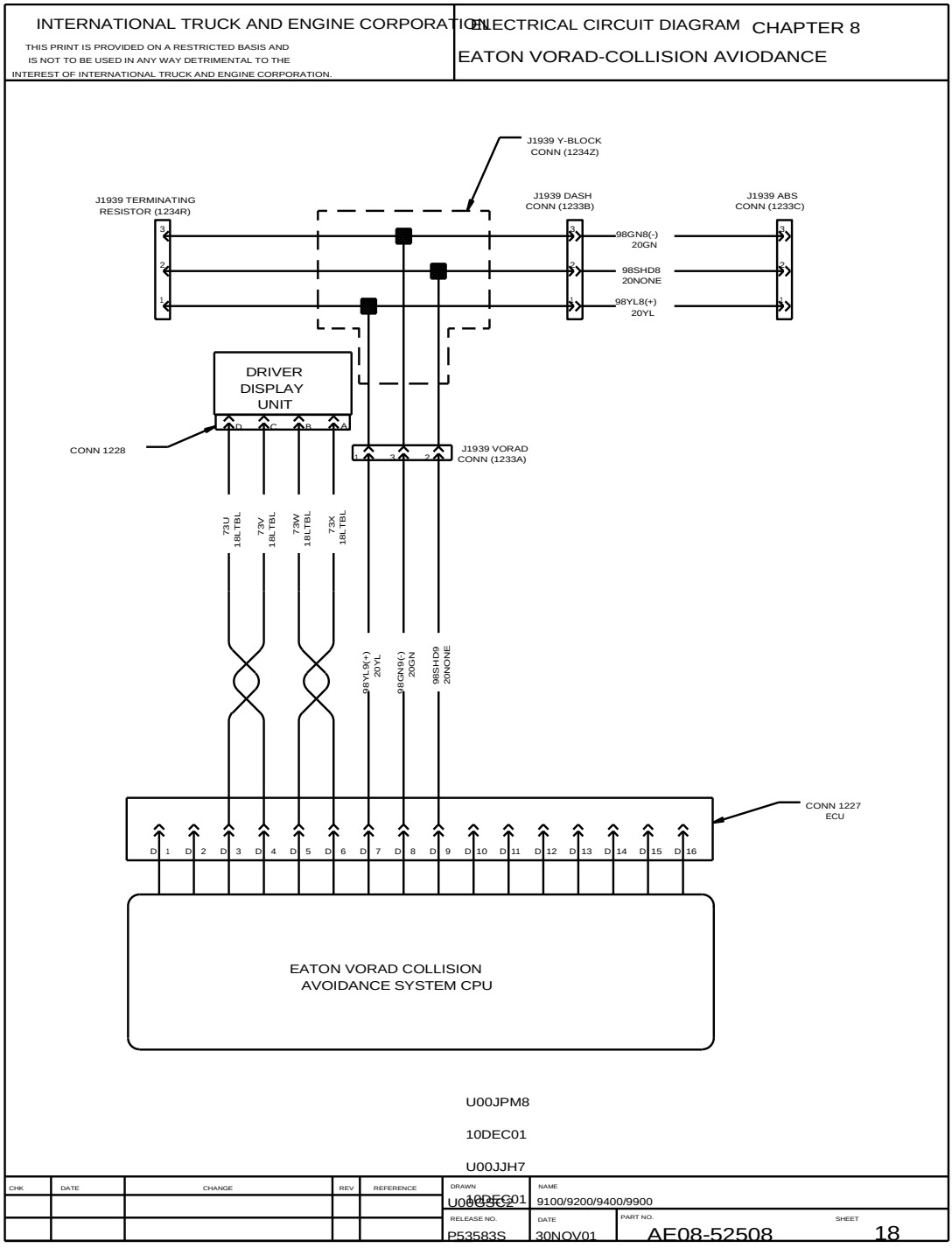

Figure 77 Eaton Vorad — Collision Avoidance

8.19. TEMPERATURE/COMPASS DISPLAY, P. 19

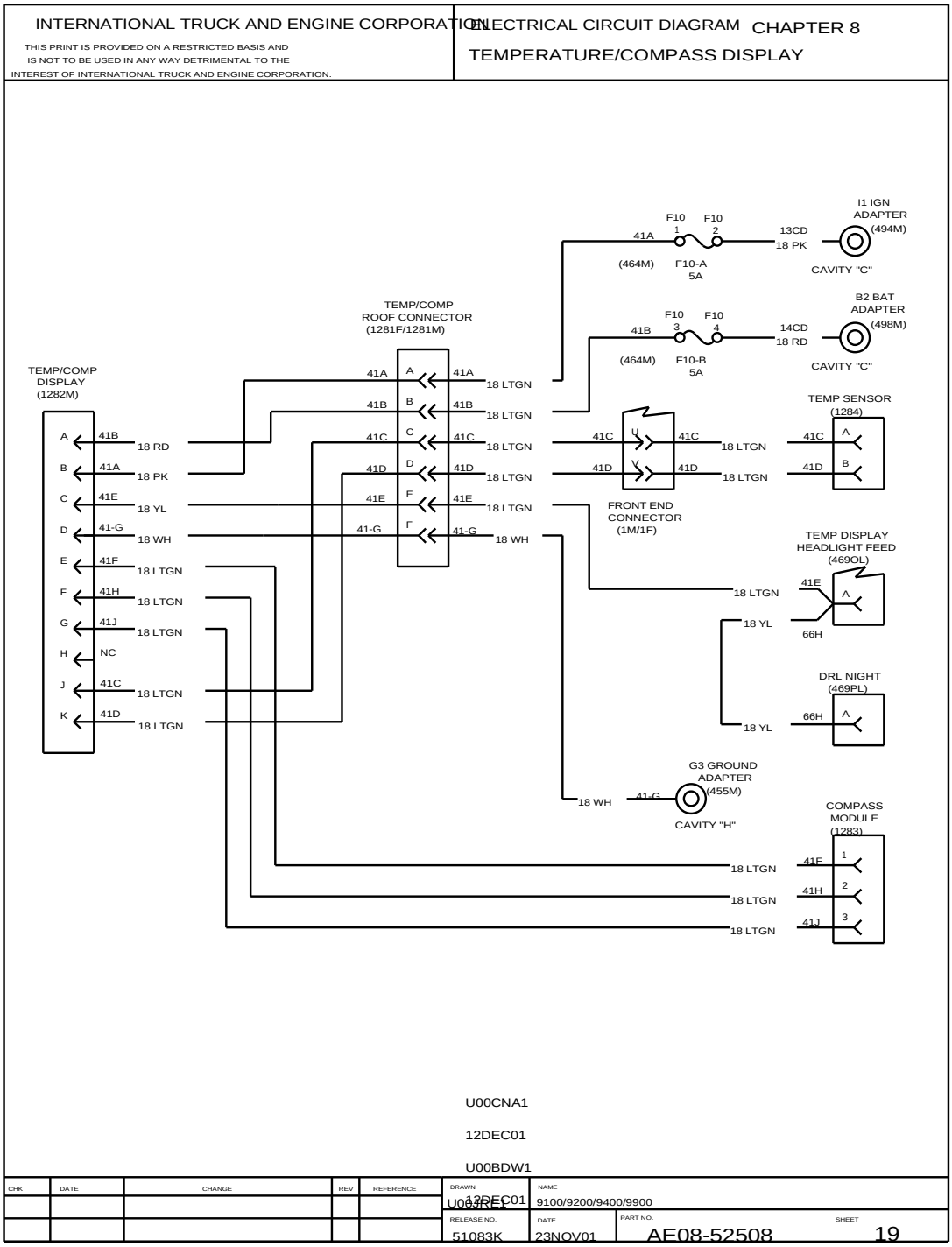

Figure 78 Temperature/Compass Display

8.20. ROAD RELAY IV, P. 20

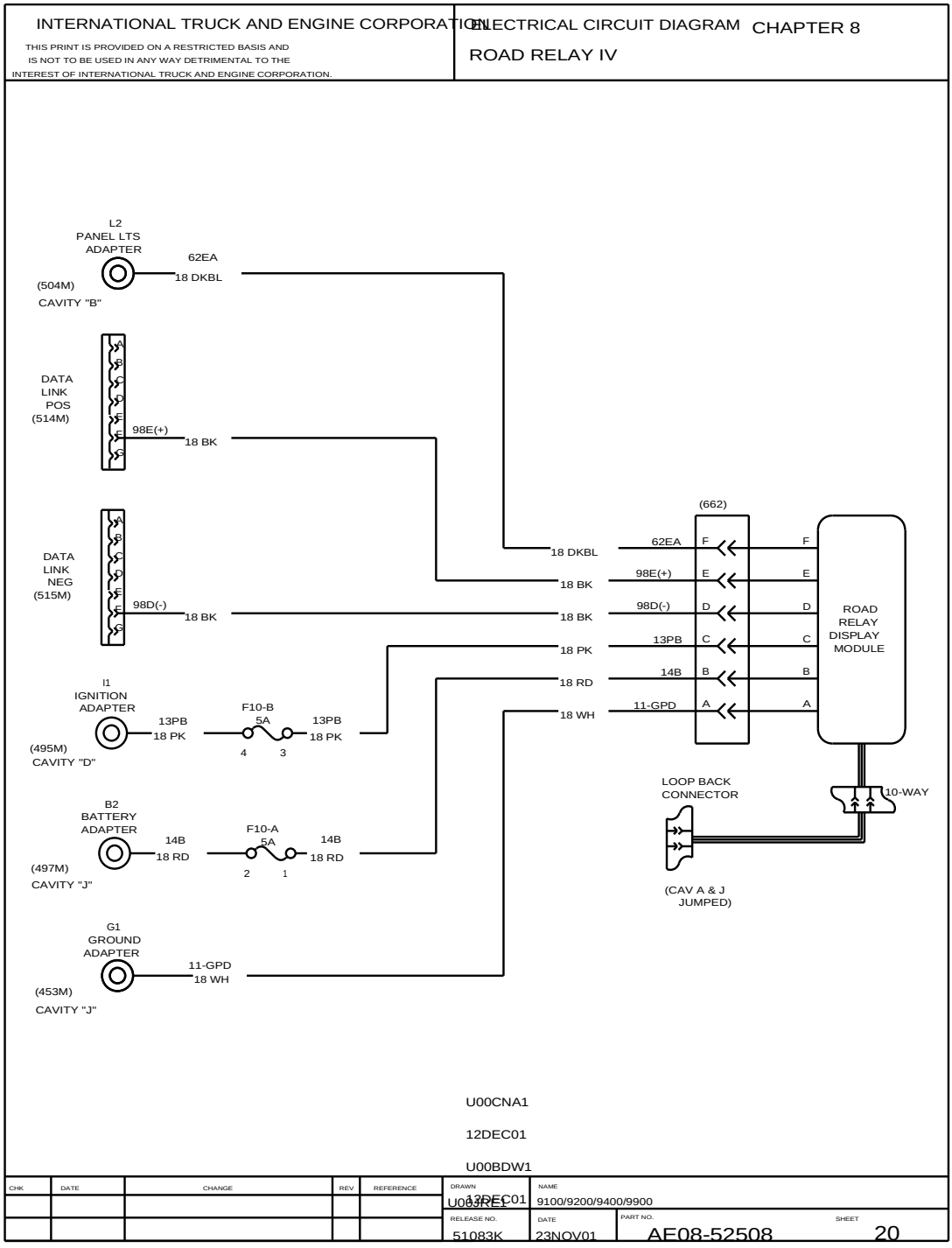

Figure 79 Road Relay IV

8.21. HEATED SEAT — DRIVER, P. 21

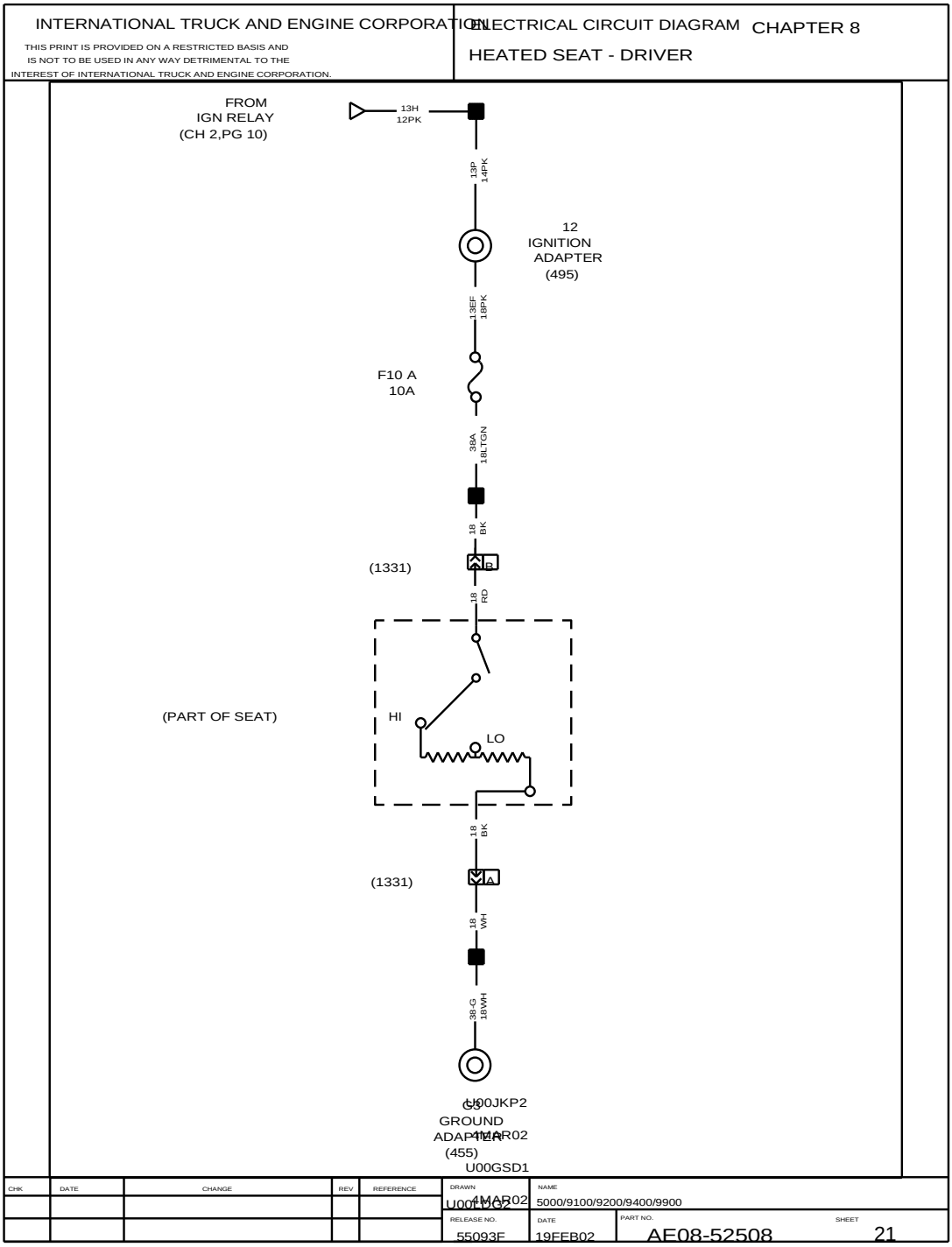

Figure 80 Heated Seat — Driver

8.22. HEATED SEAT — PASSENGER, P. 22

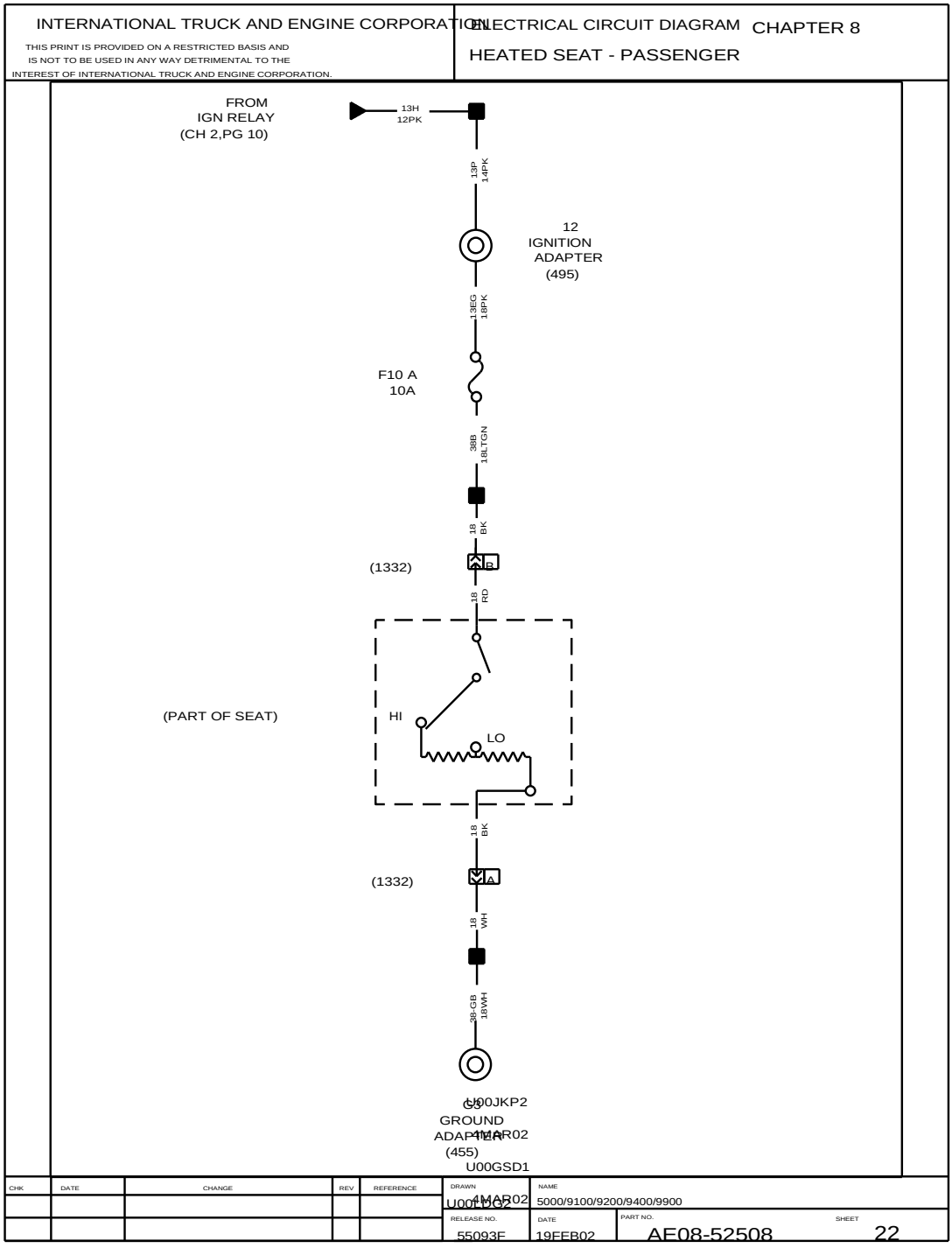

Figure 81 Heated Seat — Passenger

9. CHASSIS ACCESSORIES (CHAPTER 9)

9.1. AIR DRYER, P. 1

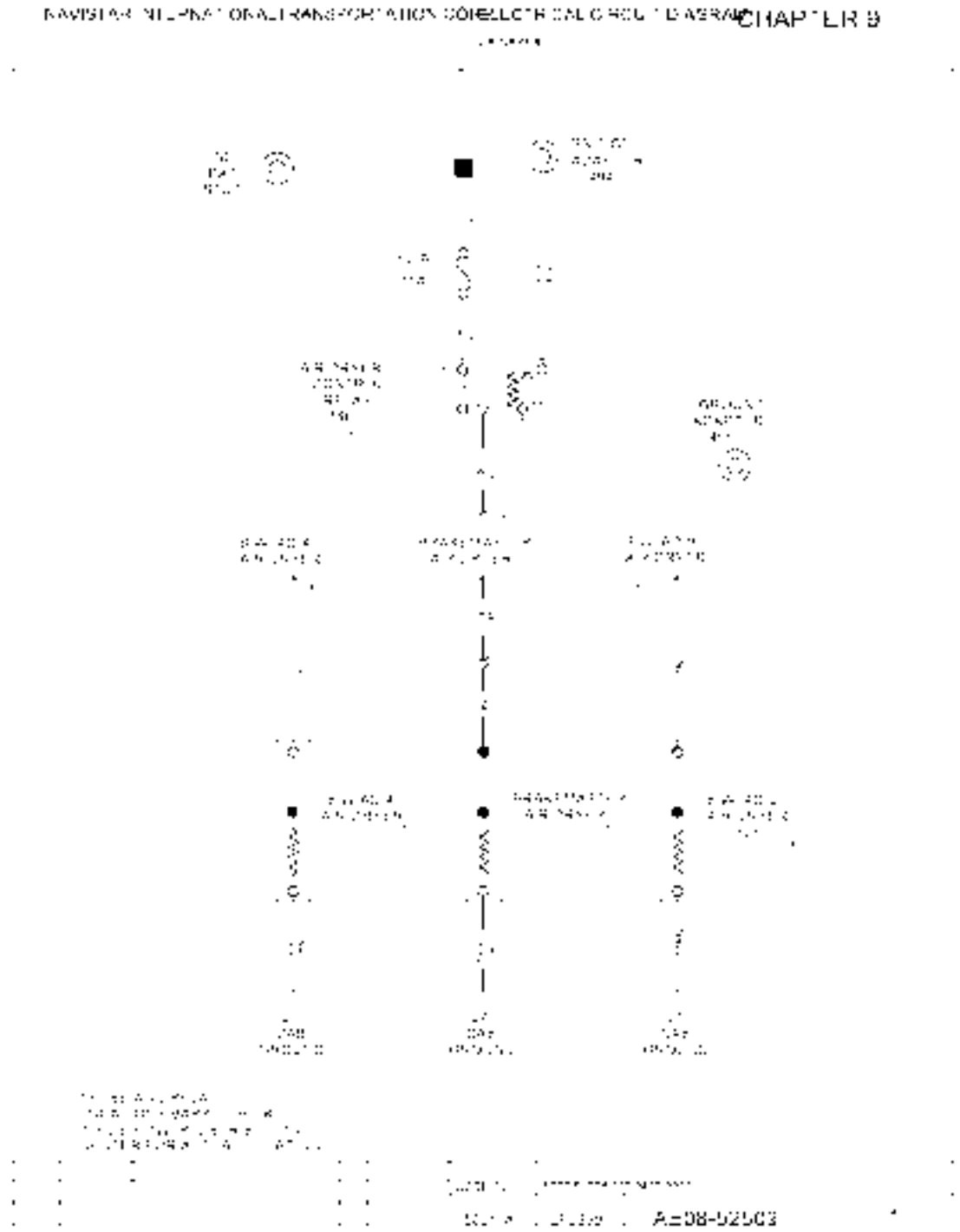

Figure 82 Air Dryer

9.2. ABS/ATC (BENDIX), P. 2

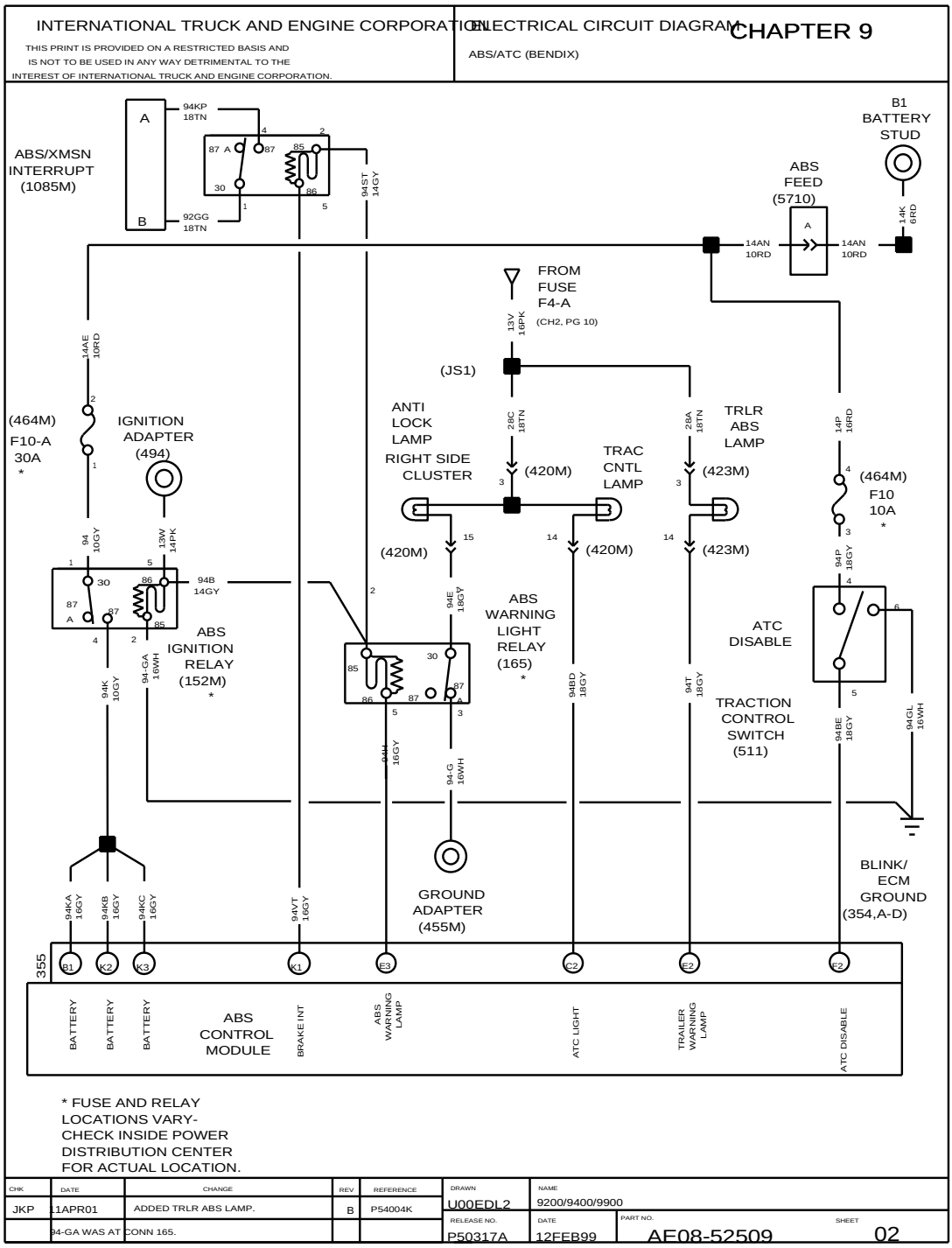

Figure 83 ABS/ATC (Bendix)

9.3. ABS/ATC (BENDIX) (CONT.), P. 3

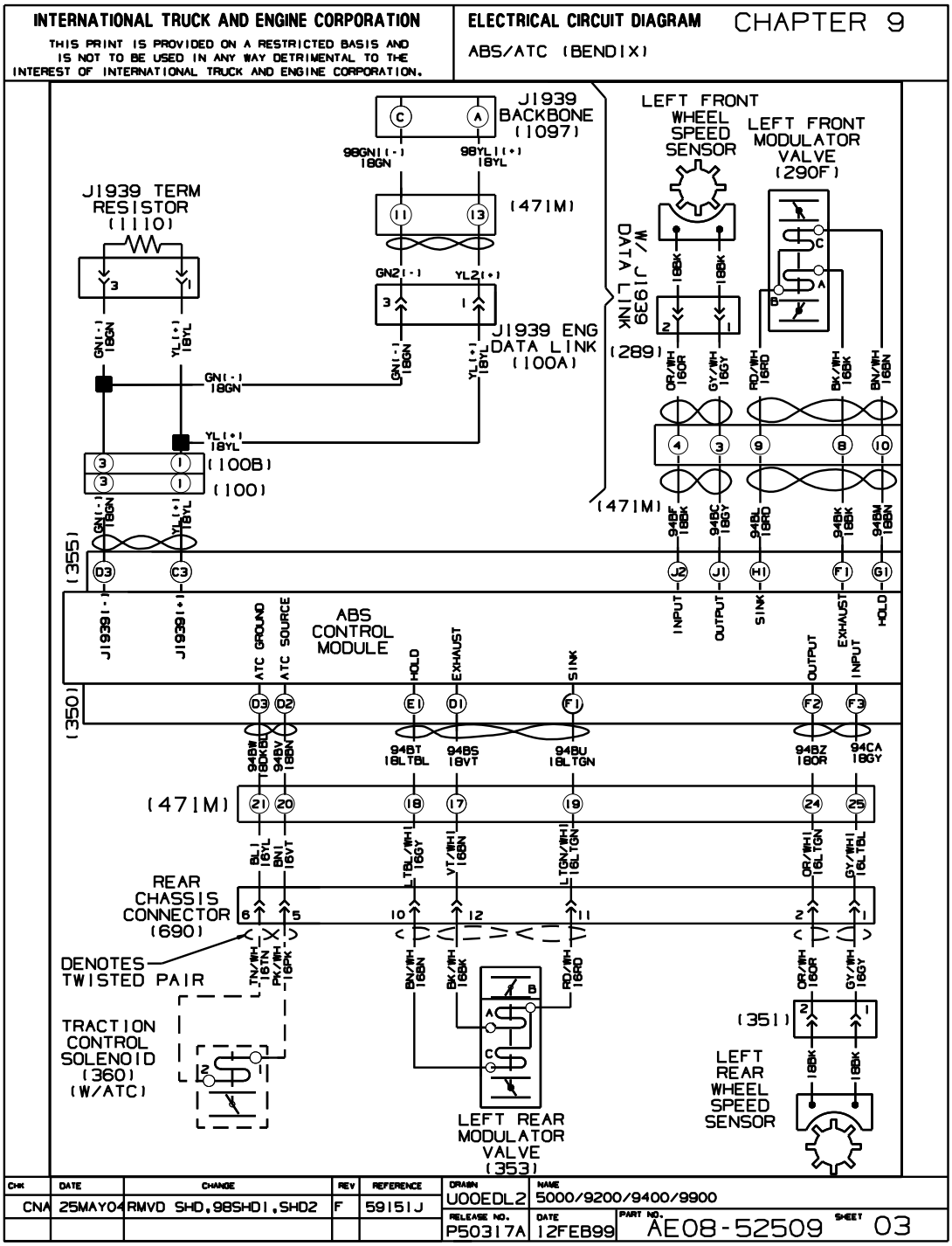

Figure 84 ABS/ATC (Bendix) (cont.)

9.4. ABS/ATC (BENDIX) (CONT.), P. 4

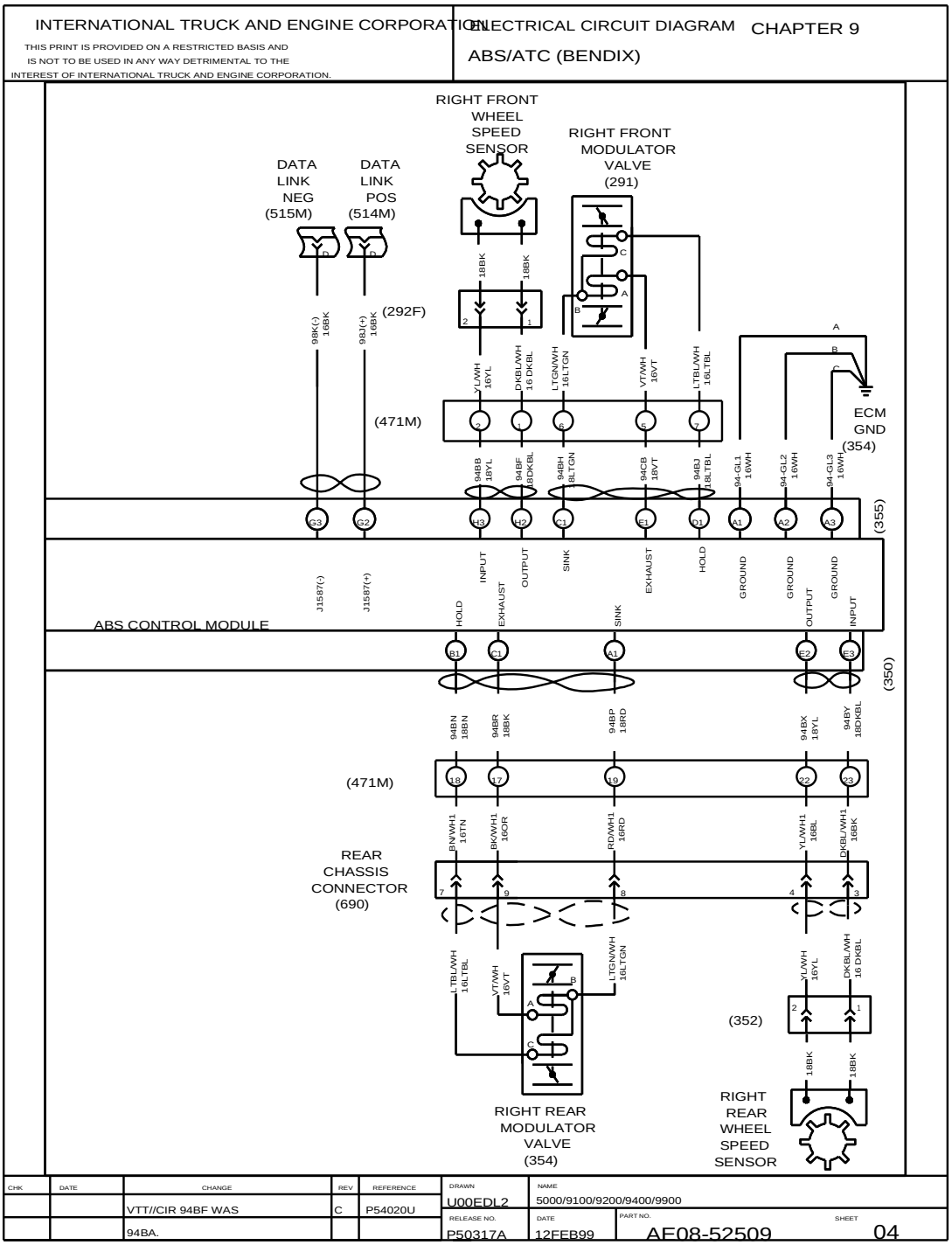

Figure 85 ABS/ATC (Bendix) (cont.)

9.5. ABS/ATC (WABCO), P. 5

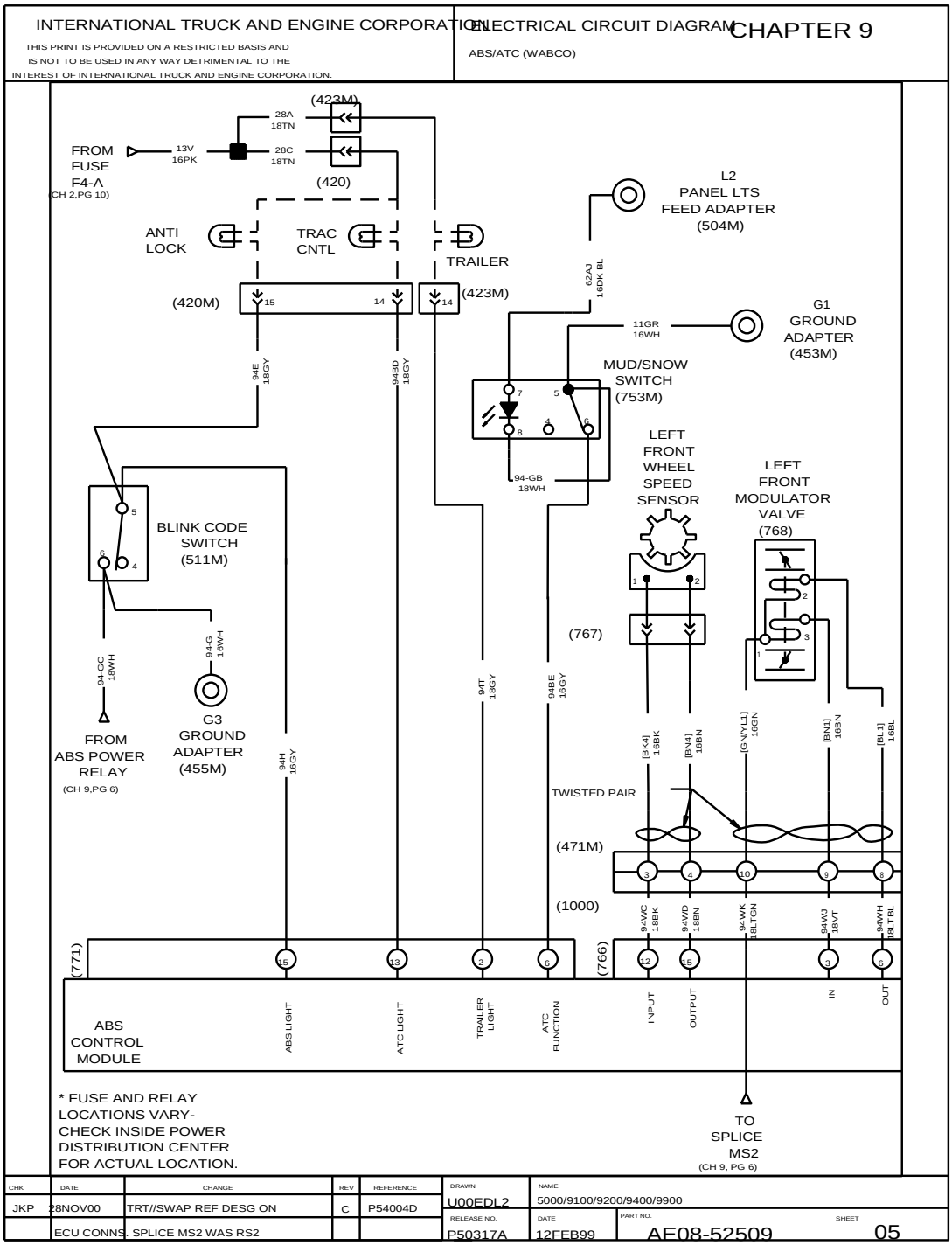

Figure 86 ABS/ATC (WABCO)

9.6. ABS/ATC (WABCO) (CONT.), P. 6

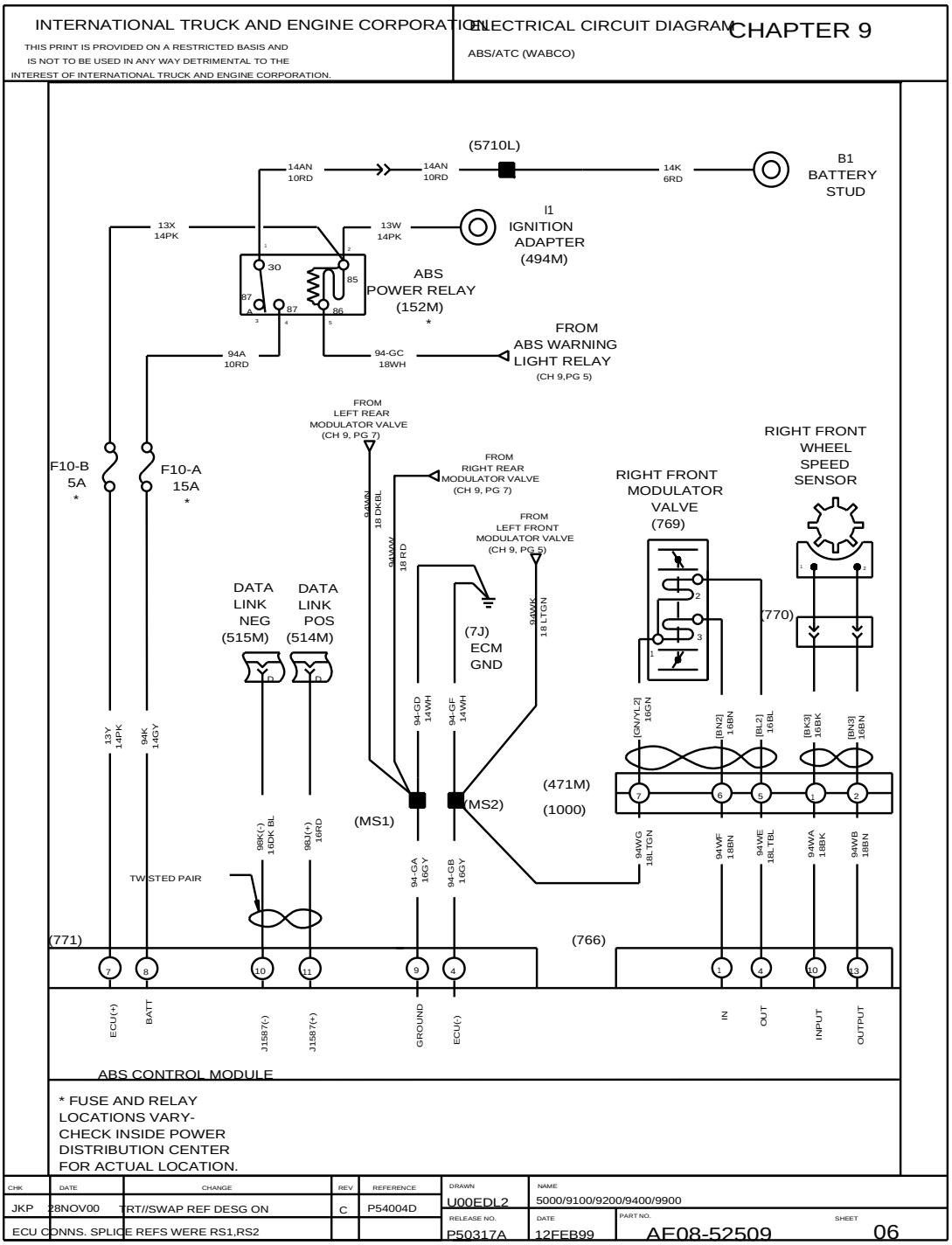

Figure 87 ABS/ATC (WABCO) (cont.)

9.7. ABS/ATC (WABCO) (CONT.), P. 7

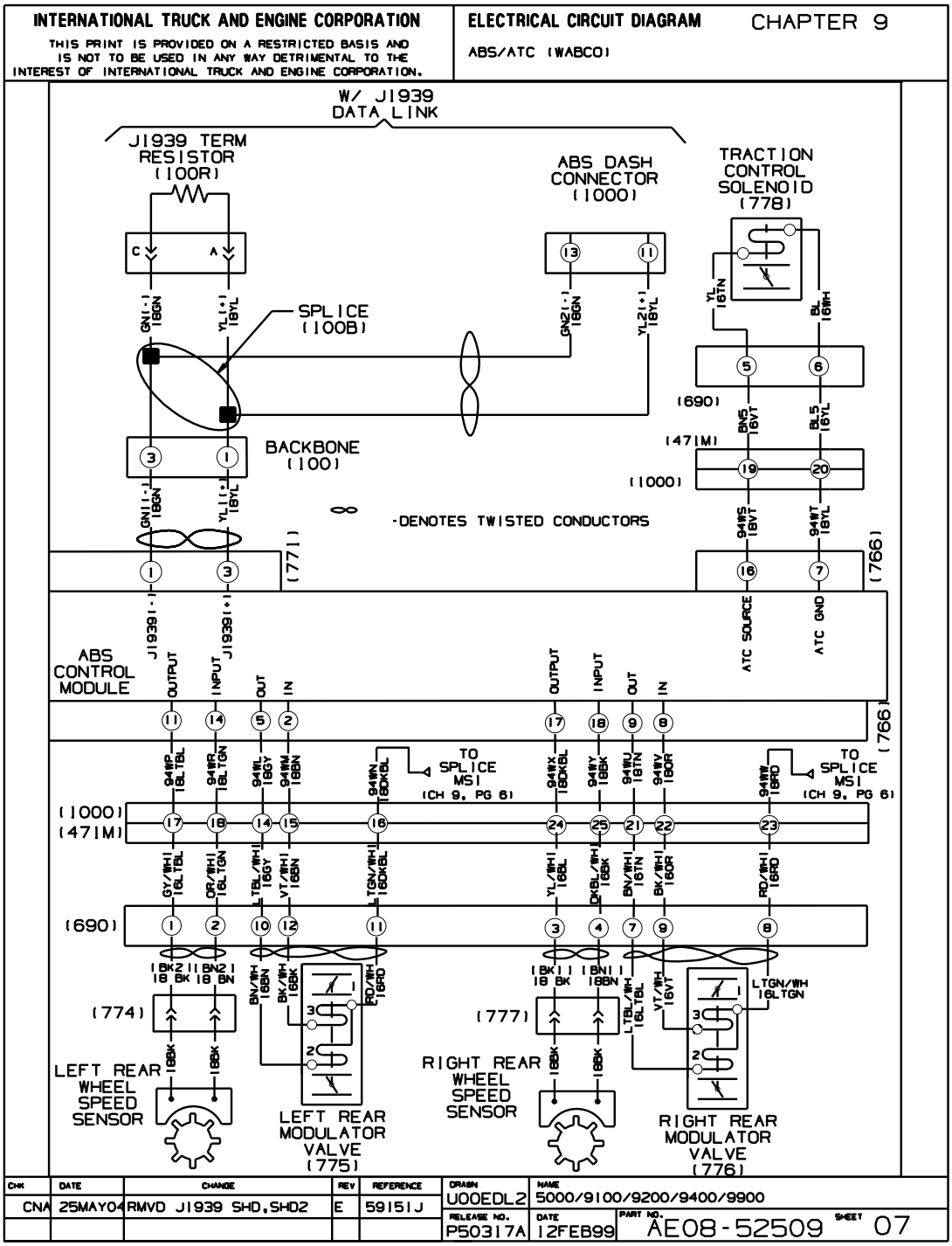

Figure 88 ABS/ATC (WABCO) (cont.)

9.8. TRAILER CONNECTION — BACK OF SLEEPER MOUNTED W/TRACTOR ABS, P. 8

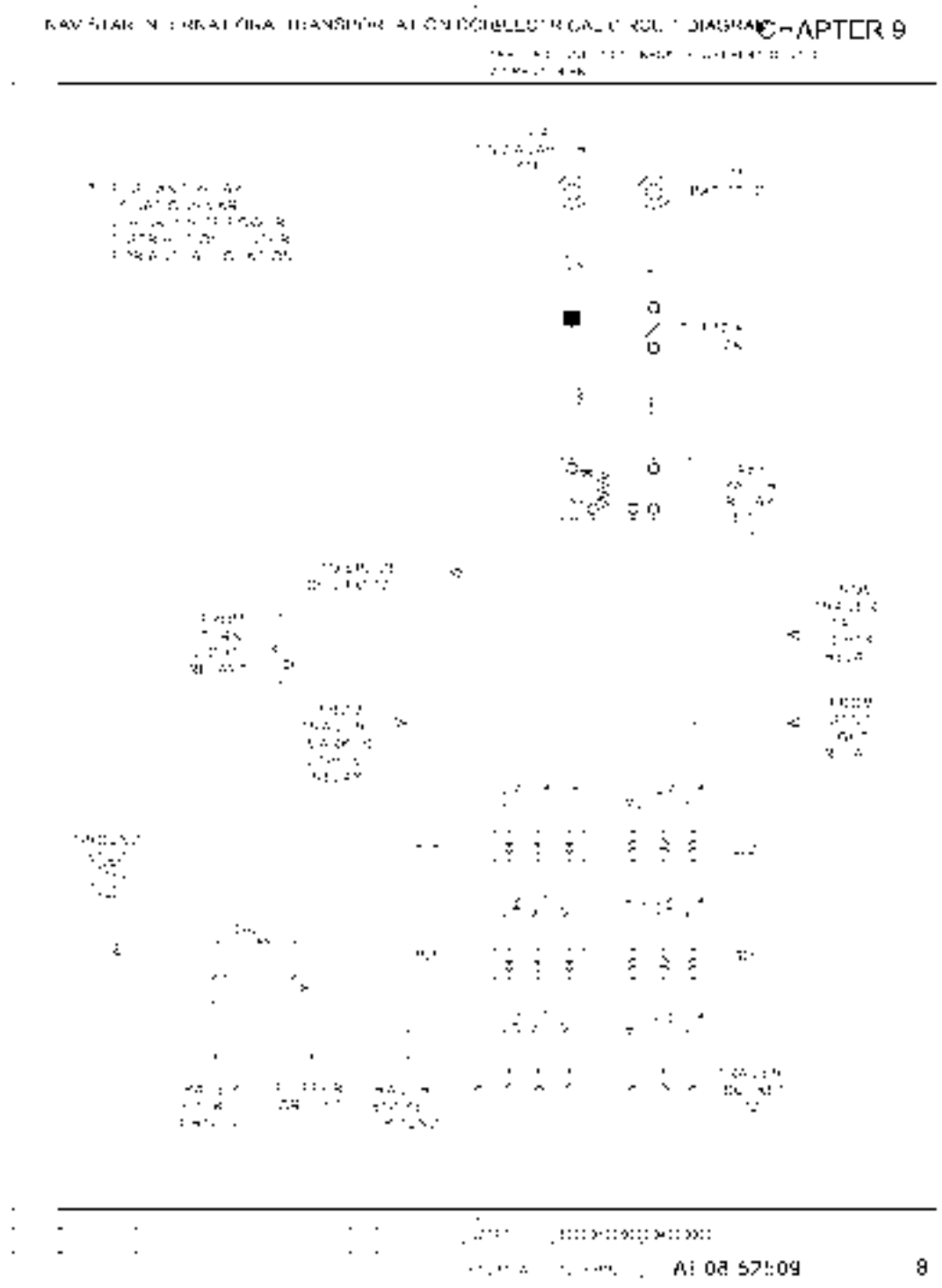

Figure 89 Trailer Connection — Back of Sleeper Mounted W/Tractor ABS

9.9. TRAILER CONNECTION W/FOUR WHEEL TRAILER — FRAME MOUNTED, P. 9

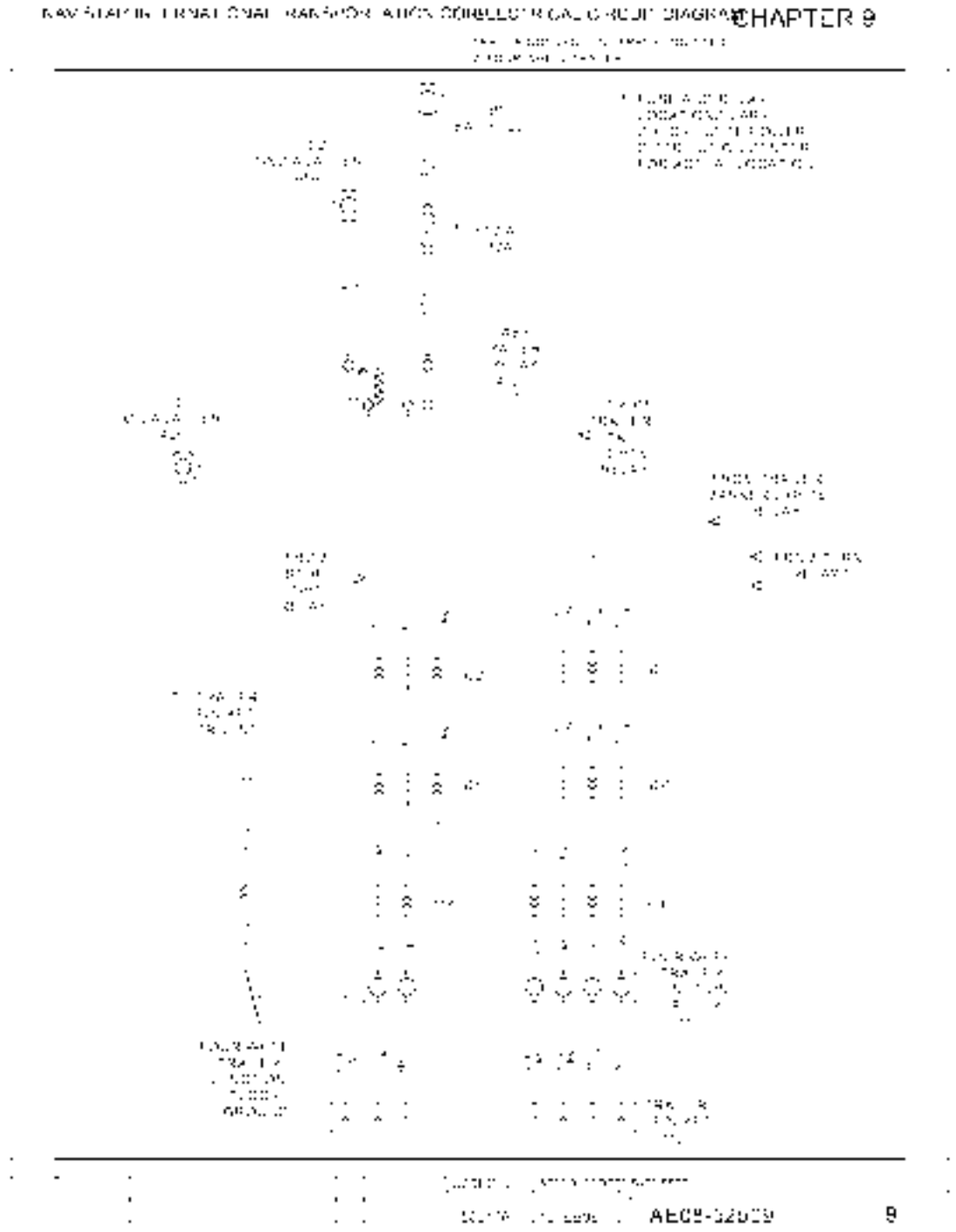

Figure 90 Trailer Connection W/Four Wheel Trailer — Frame Mounted

9.10. TWO SPEED AXLE WIRING, P. 10

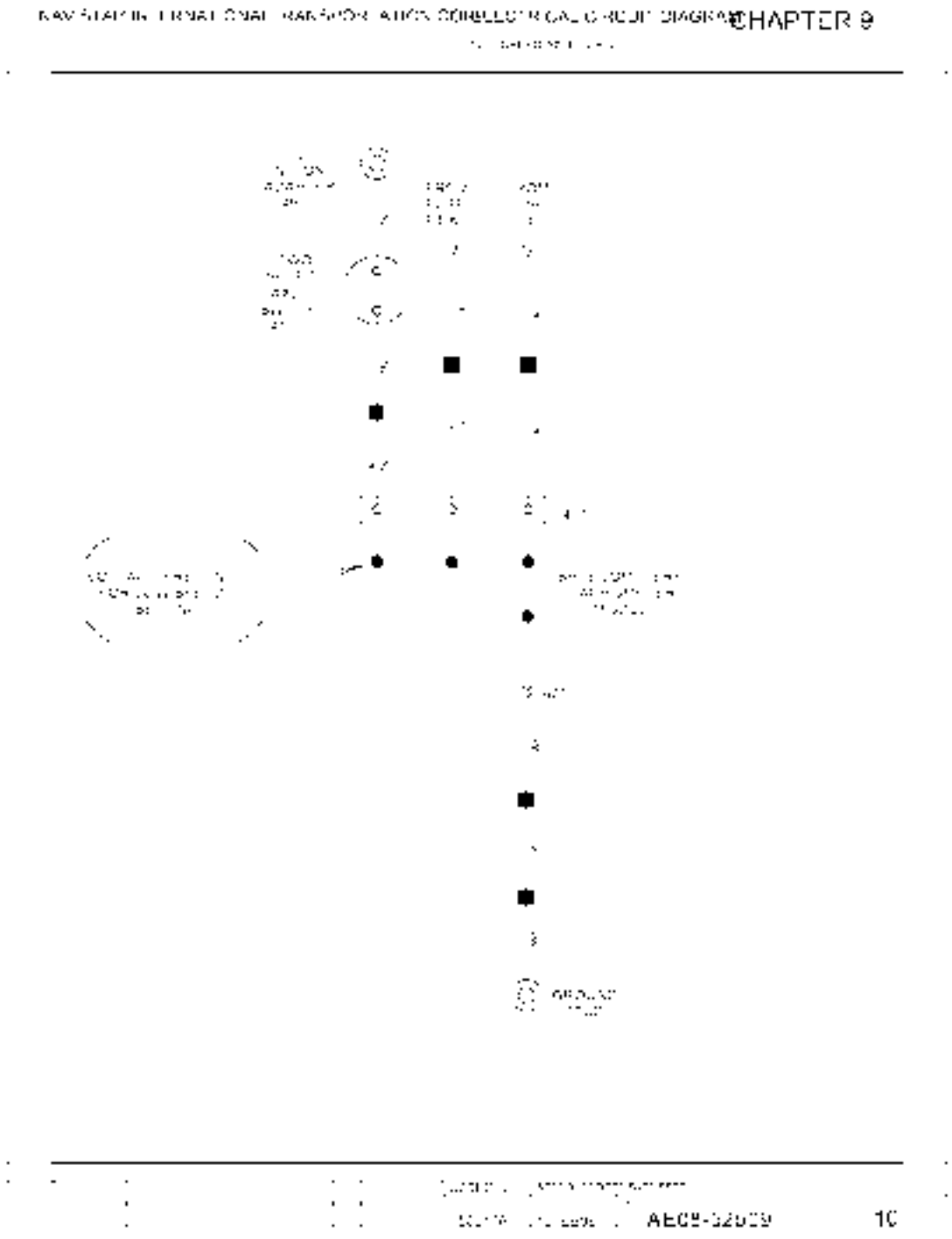

Figure 91 Two Speed Axle Wiring

9.11. TRUCK BODY CONNECTION, P. 11

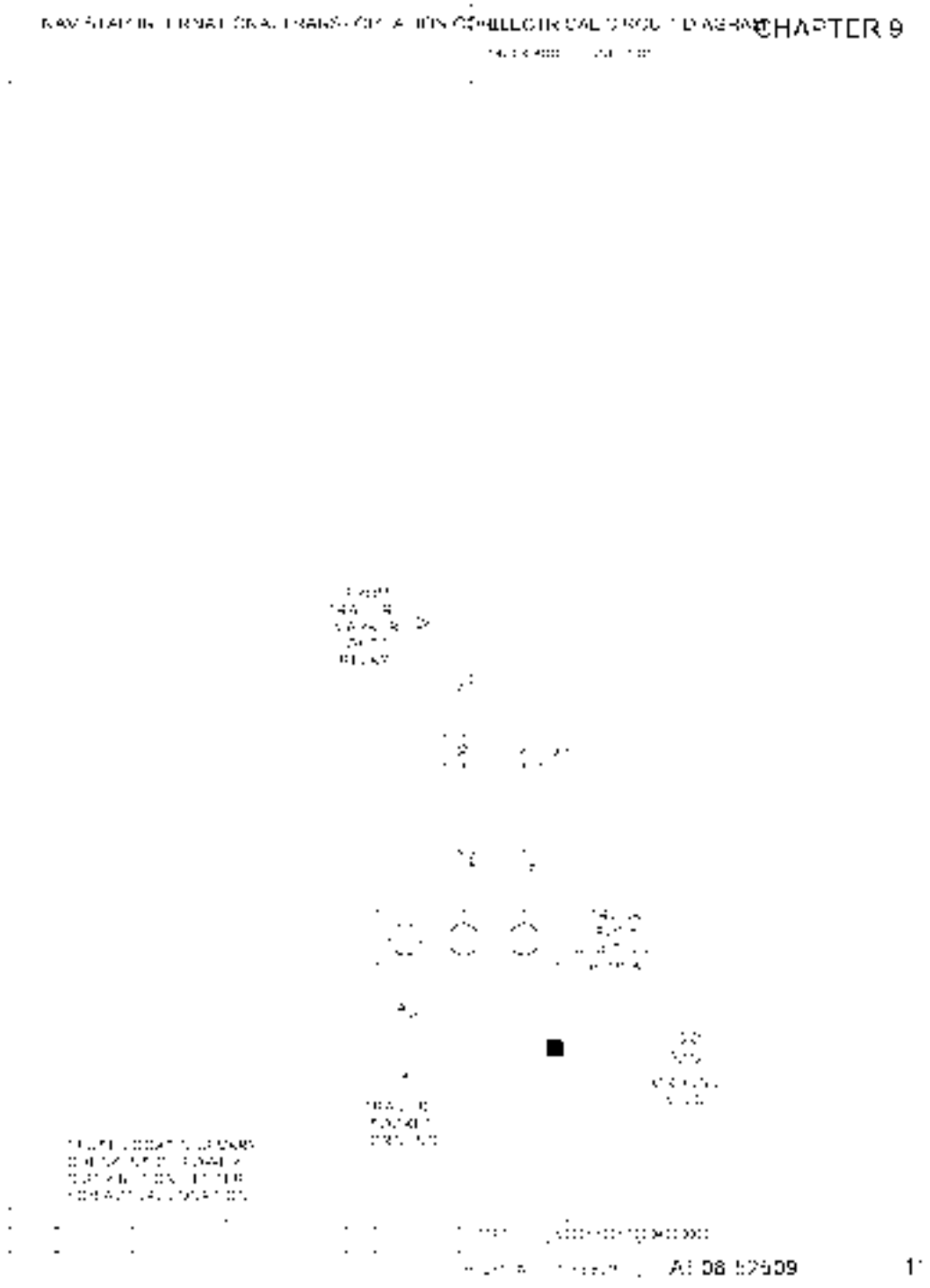

Figure 92 Truck Body Connection

9.12. TRAILER CONNECTION N/SLEEPER — BACK OF CAB MOUNTED, P. 12

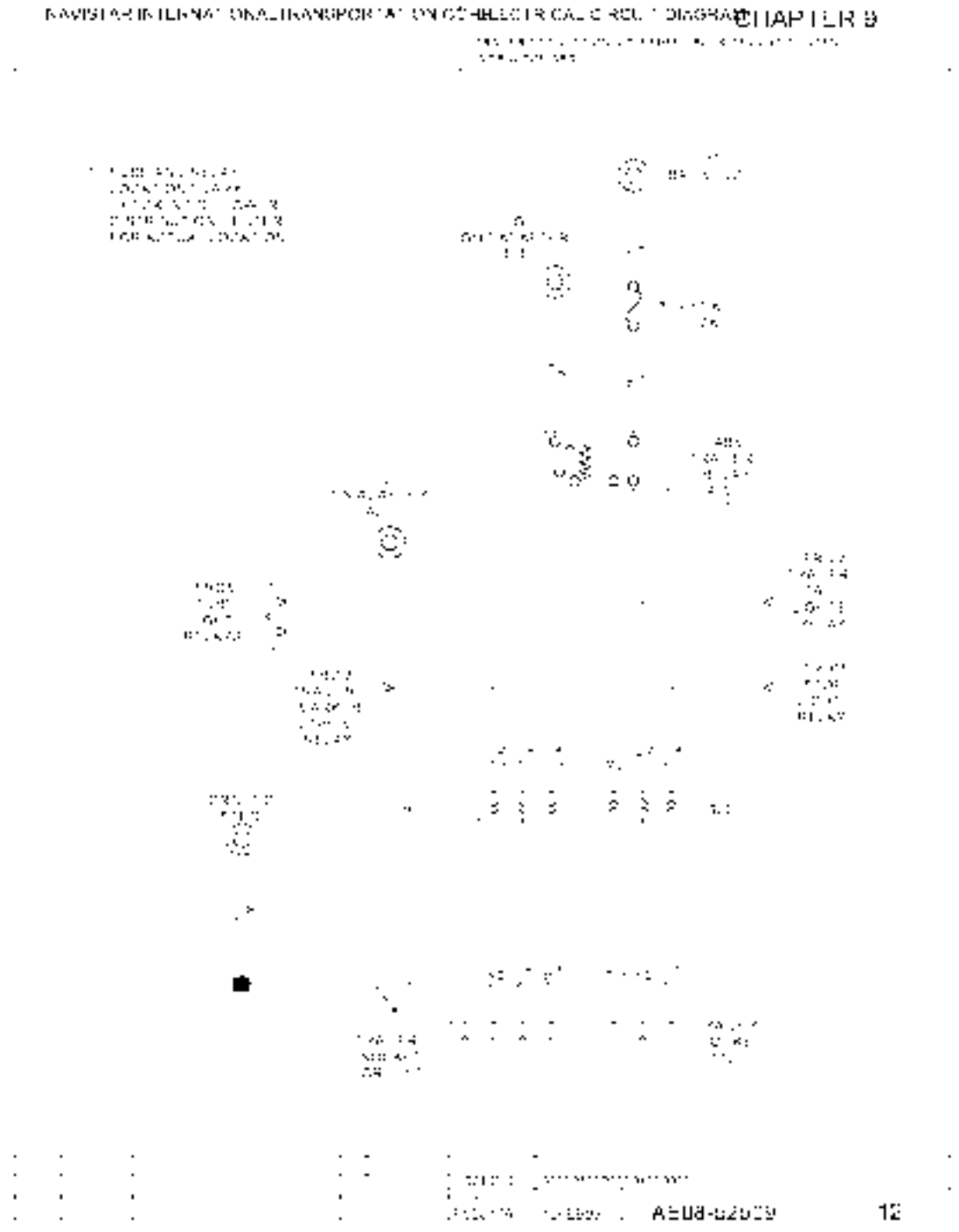

Figure 93 Trailer Connection N/Sleeper — Back of Cab Mounted

9.13. TRAILER CONNECTION W/FOUR WHEEL TRAILER — FRAME MOUNTED W/5000, P. 13

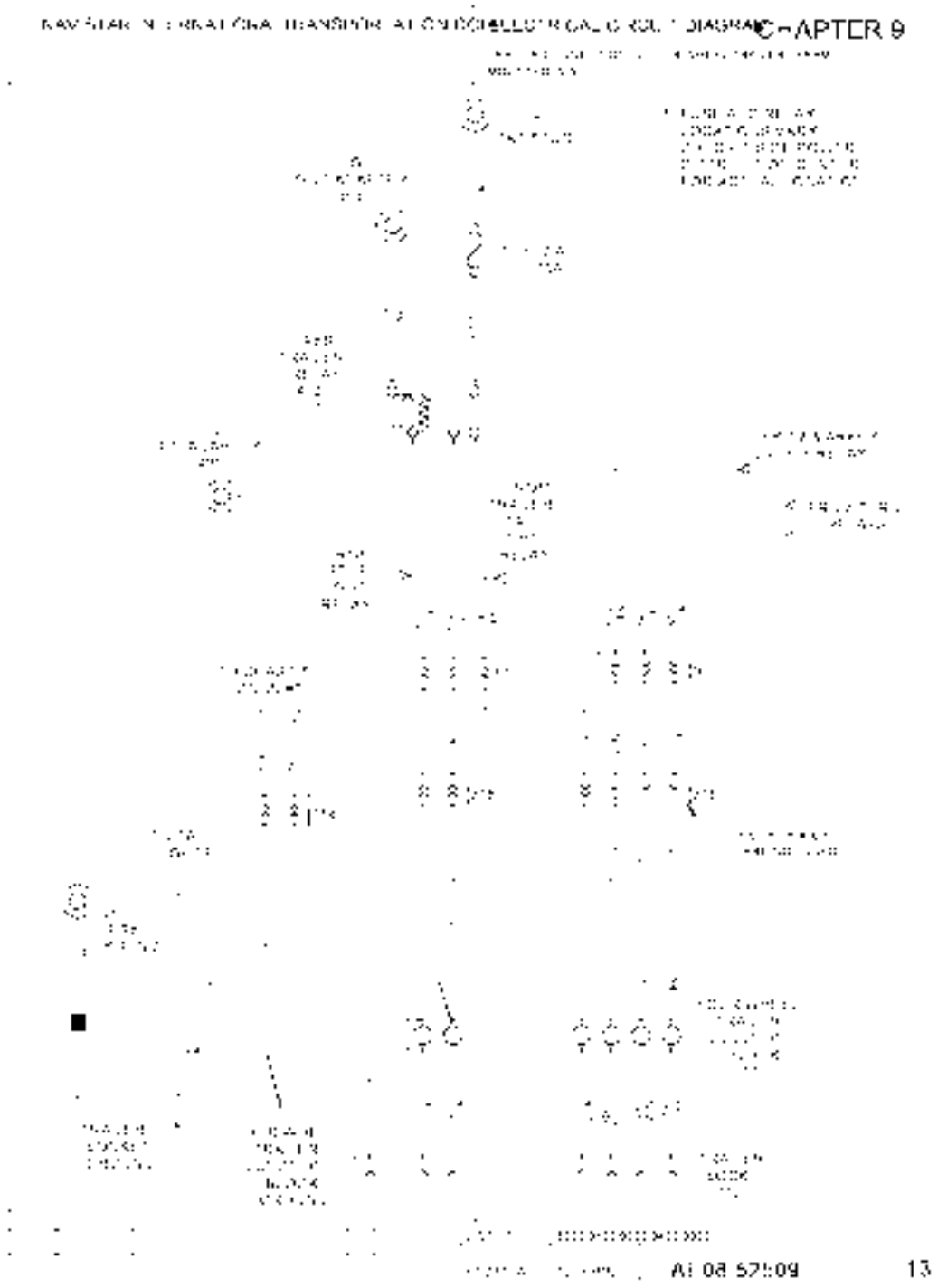

Figure 94 Trailer Connection W/Four Wheel Trailer — Frame Mounted W/5000

9.14. MERITOR G SERIES TRANSMISSION, P. 14

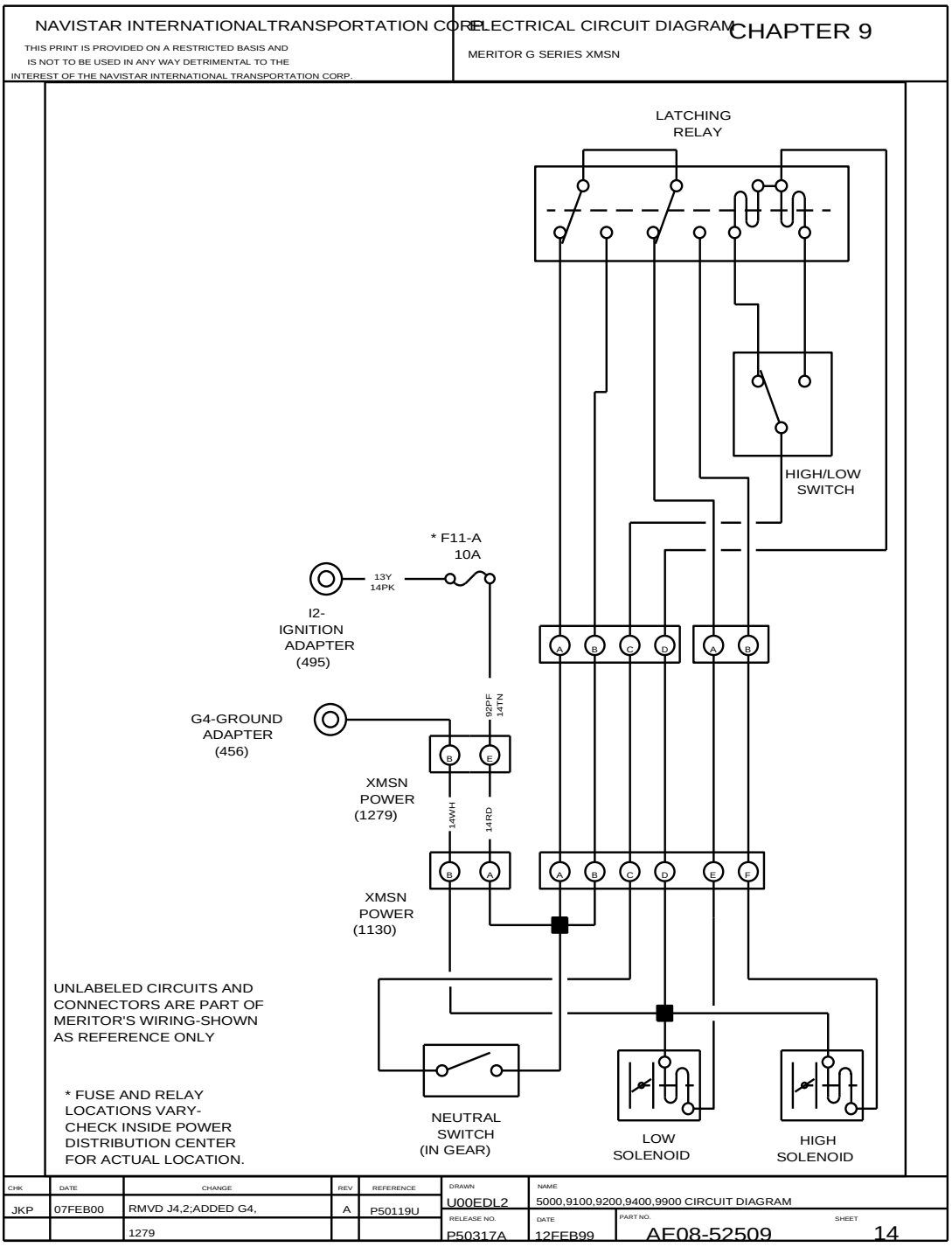

Figure 95 Meritor G Series Transmission

9.15. EATON AUTOSHIFT TRANSMISSION — CAB WIRING, P. 15

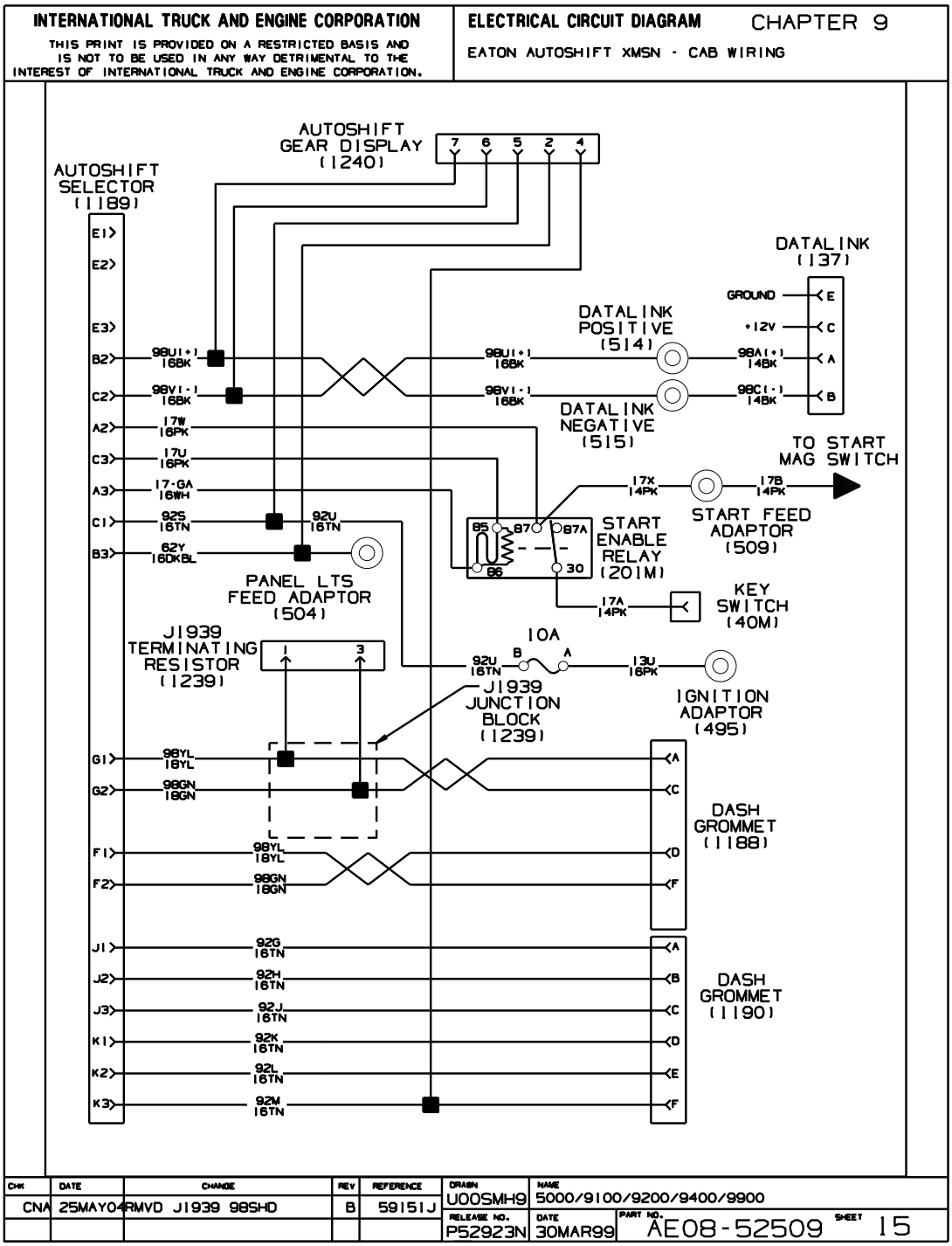

Figure 96 Eaton Autoshift Transmission — Cab Wiring

9.16. EATON AUTOSHIFT TRANSMISSION — TRANSMISSION WIRING, P. 16

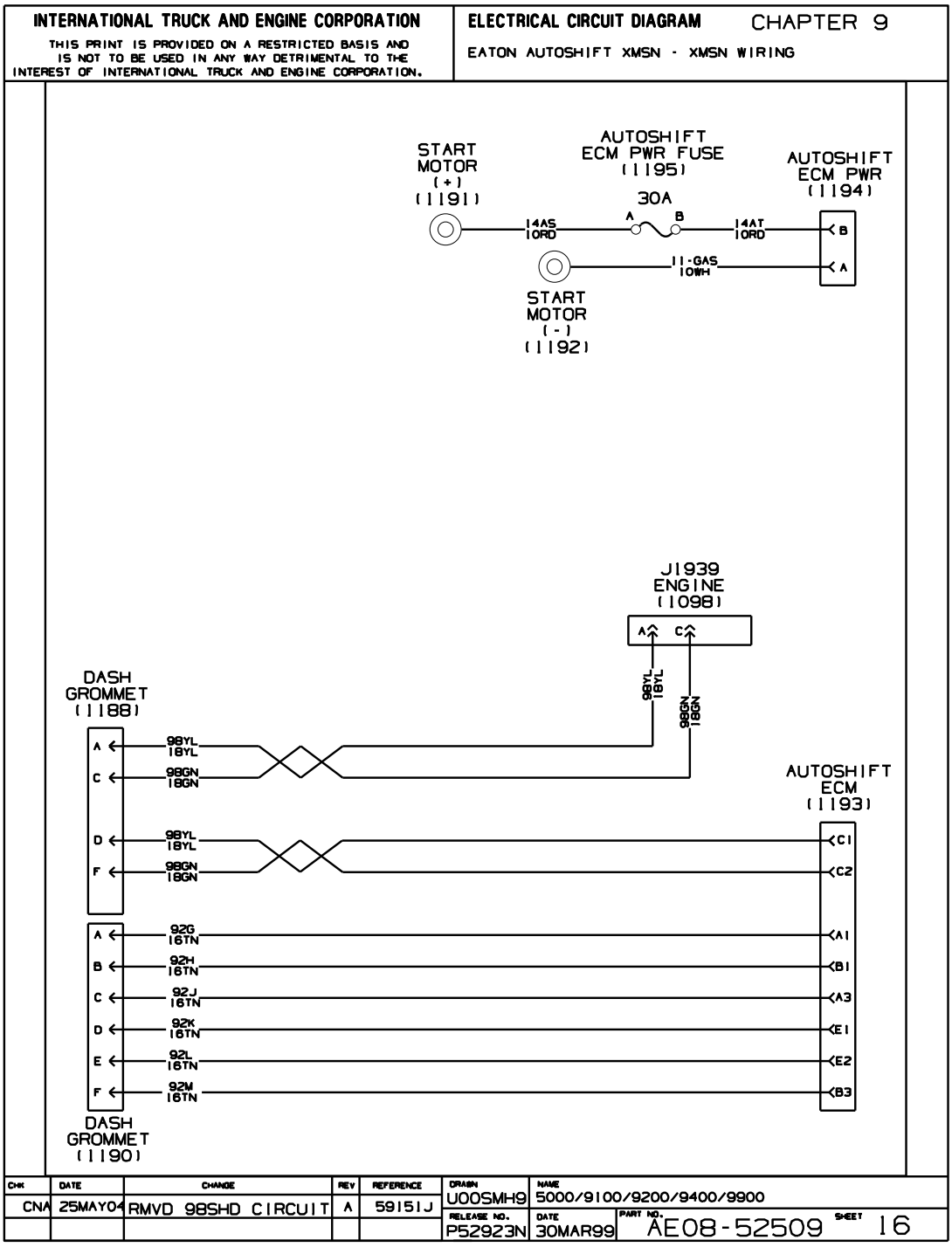

Figure 97 Eaton Autoshift Transmission — Transmission Wiring

9.17. EATON LIGHTNING TRANSMISSION — TRANSMISSION WIRING, P. 17

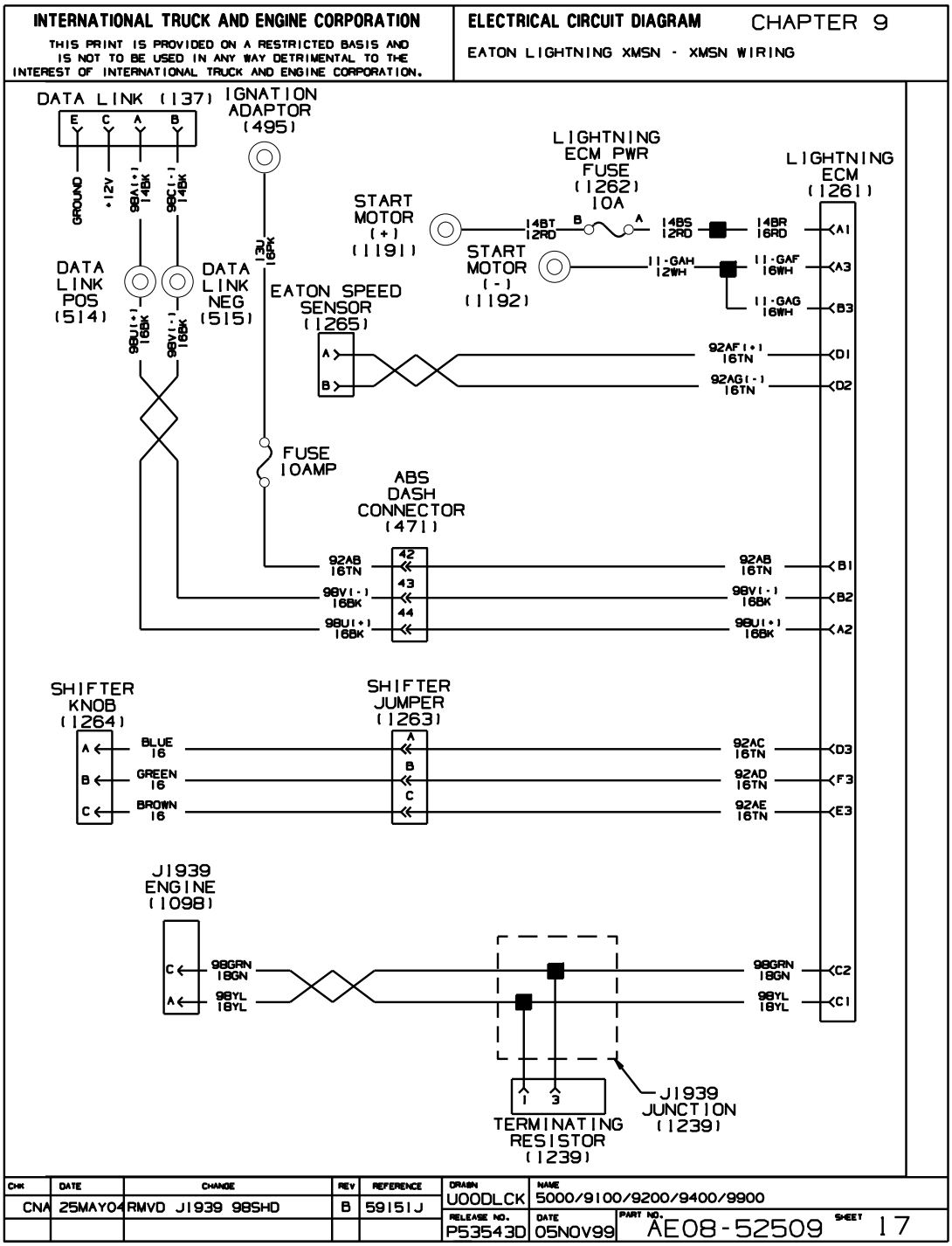

Figure 98 Eaton Lightning Transmission — Transmission Wiring

9.18. EATON ULTRASHIFT/DM2 — TRANSMISSION WIRING, P. 18

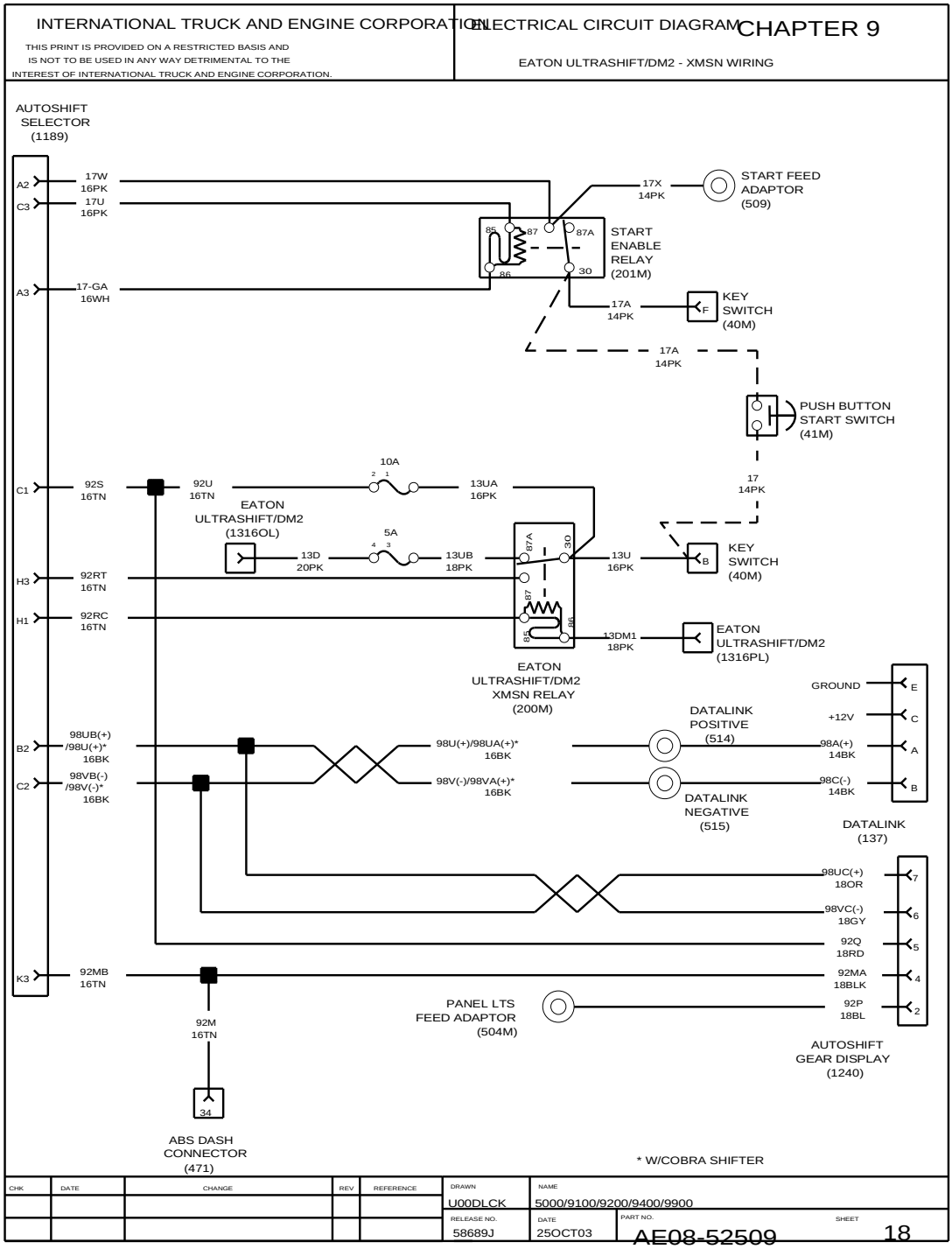

Figure 99 Eaton Ultrashift/DM2 — Transmission Wiring

9.19. EATON ULTRASHIFT/DM2 — TRANSMISSION WIRING (CONT.), P. 19

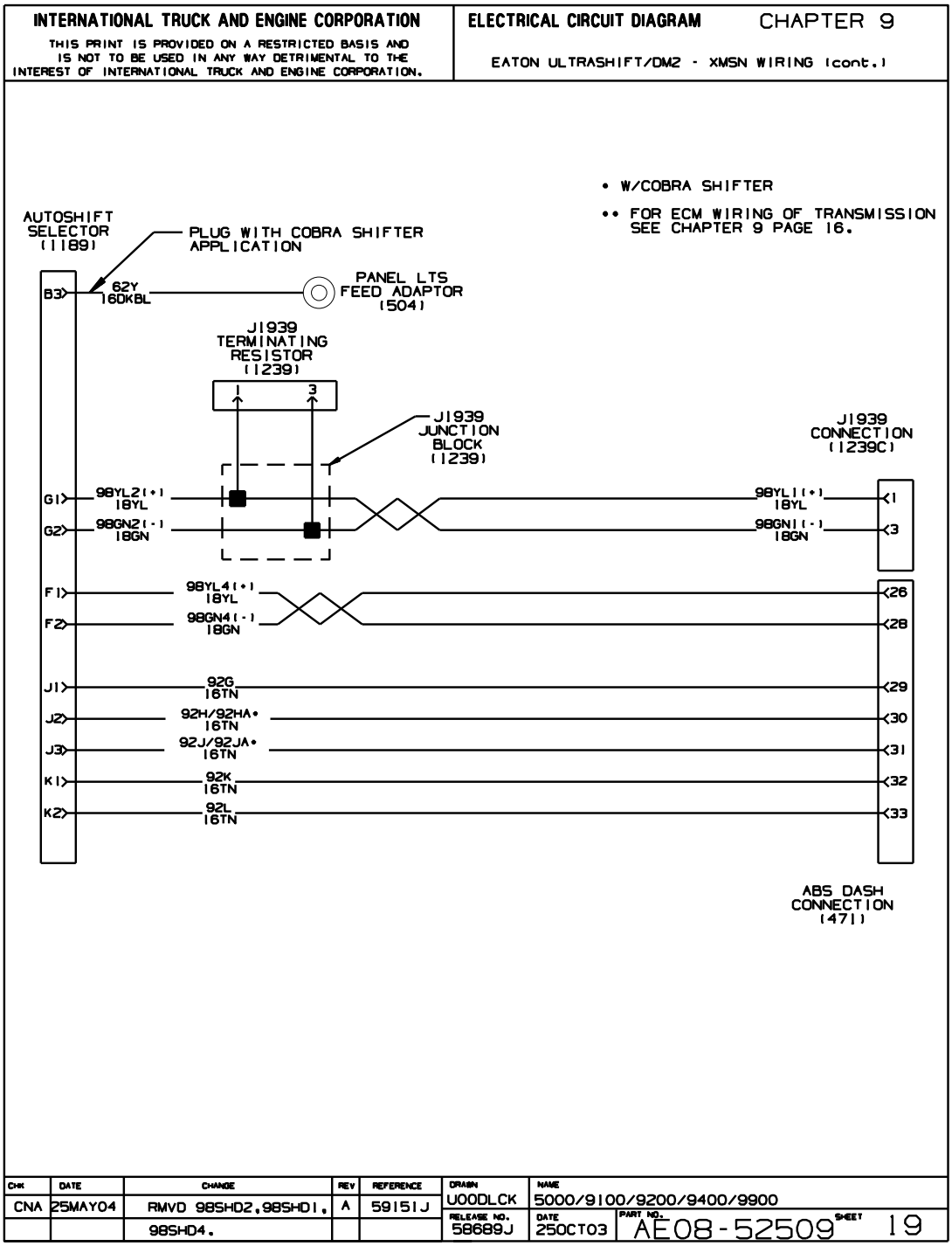

Figure 100 Eaton Ultrashift/DM2 — Transmission Wiring (Cont.)

9.20. EATON ULTRASHIFT/DM2 AND COBRA SHIFTER, P. 20

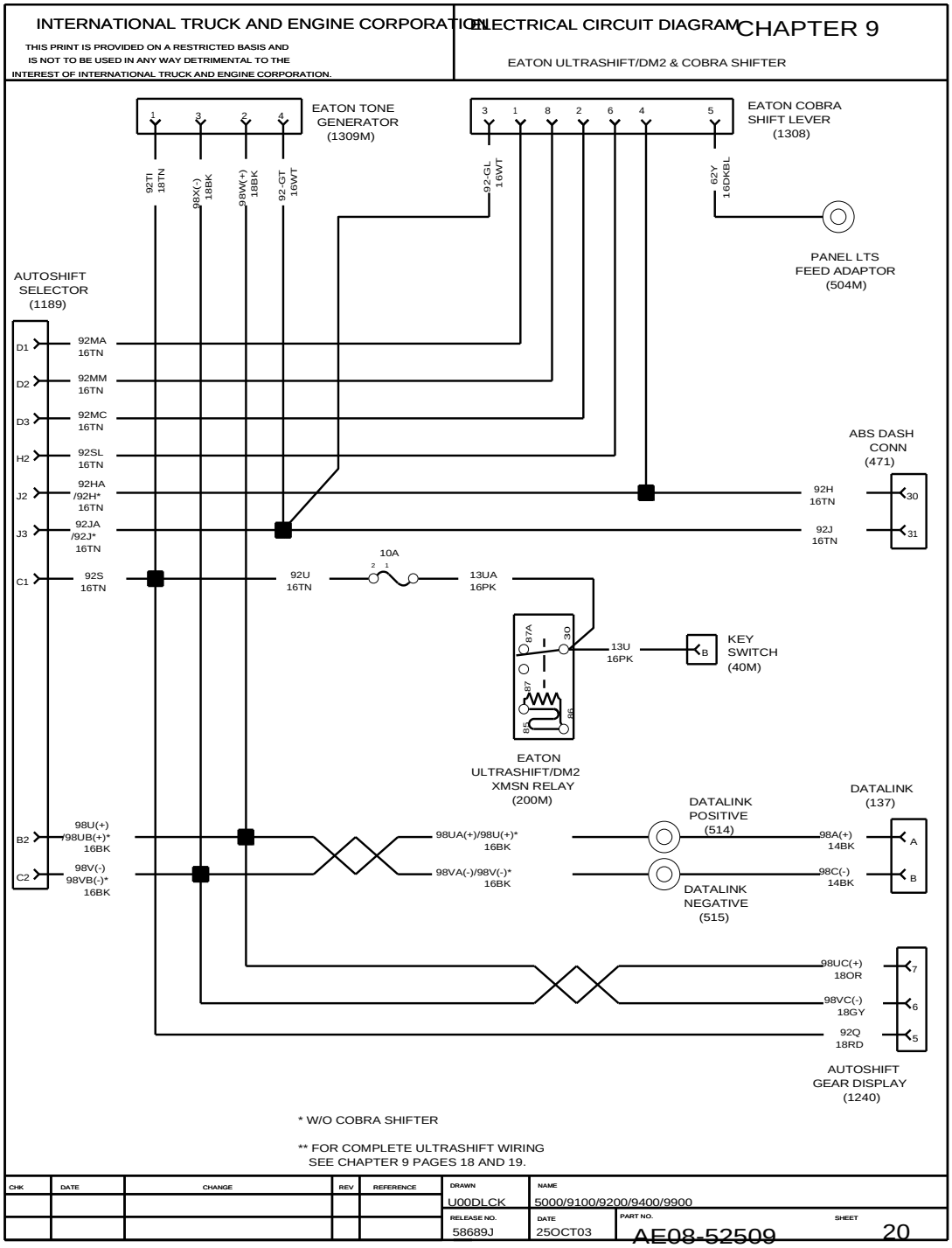

Figure 101 Eaton Ultrashift/DM2 and Cobra Shifter

9.21. ABS6/ATC BENDIX AIR, P. 21

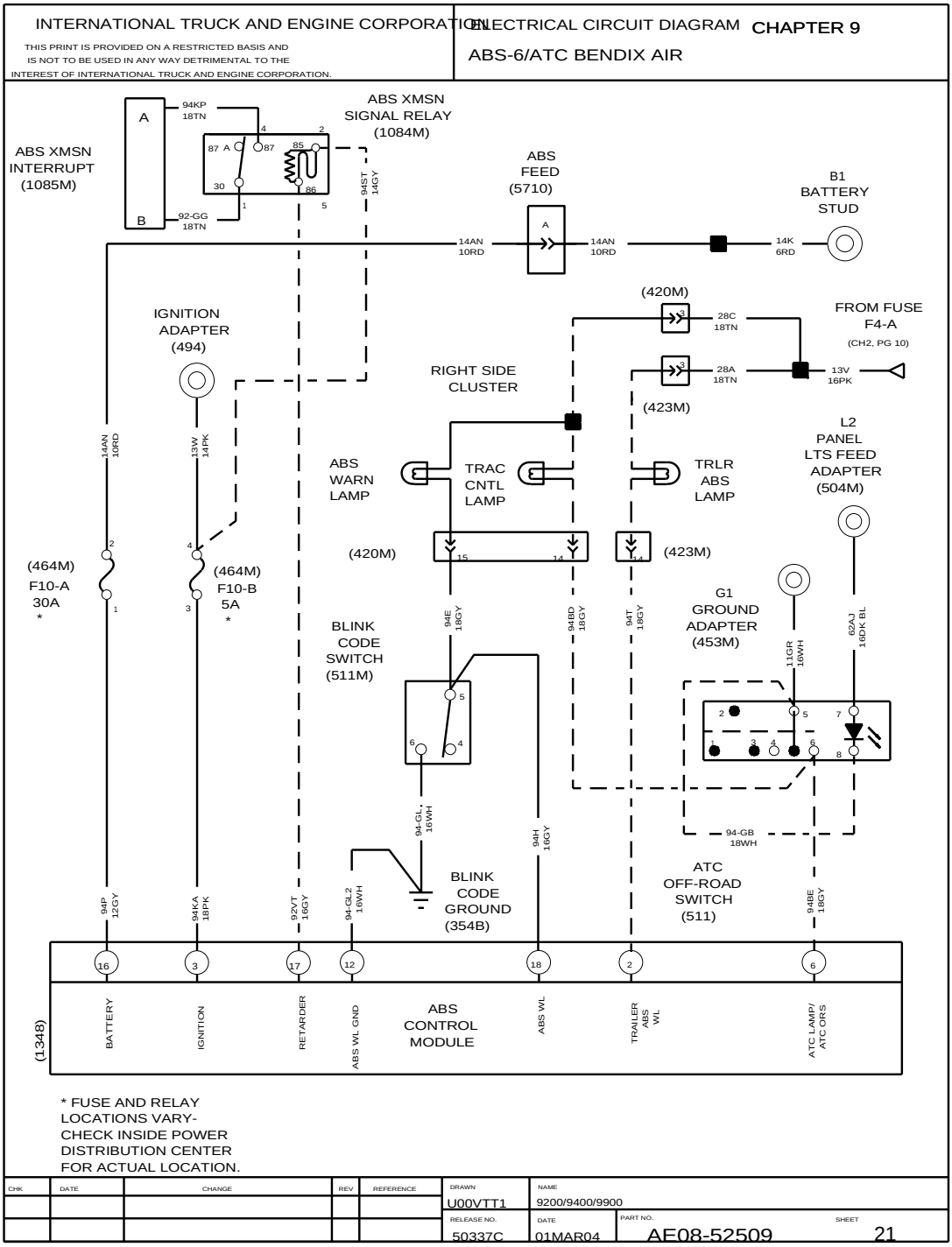

Figure 102 ABS6/ATC Bendix Air

9.22. ABS6/ATC BENDIX AIR, P. 22

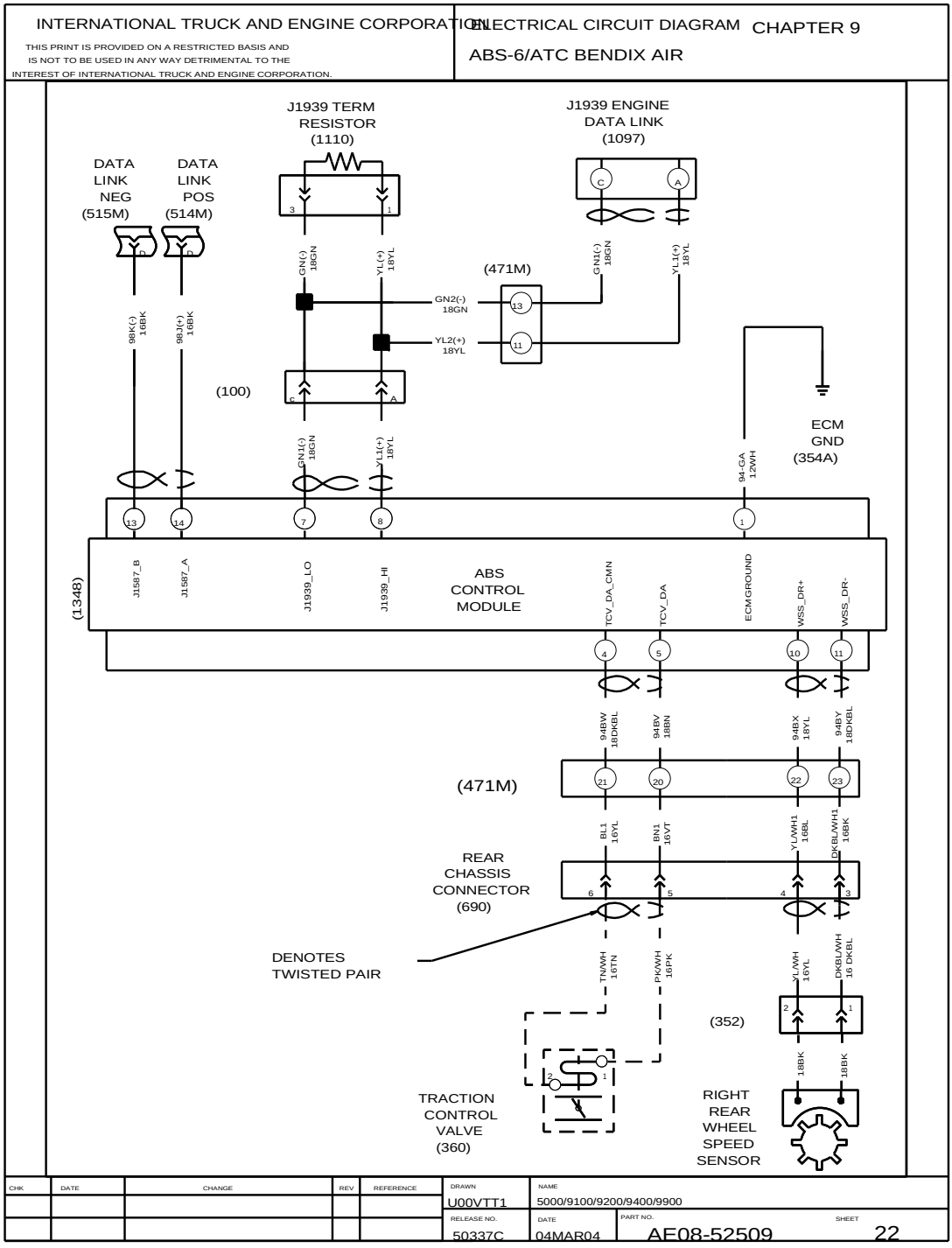

Figure 103 ABS6/ATC Bendix Air

9.23. ABS6/ATC BENDIX AIR, P. 23

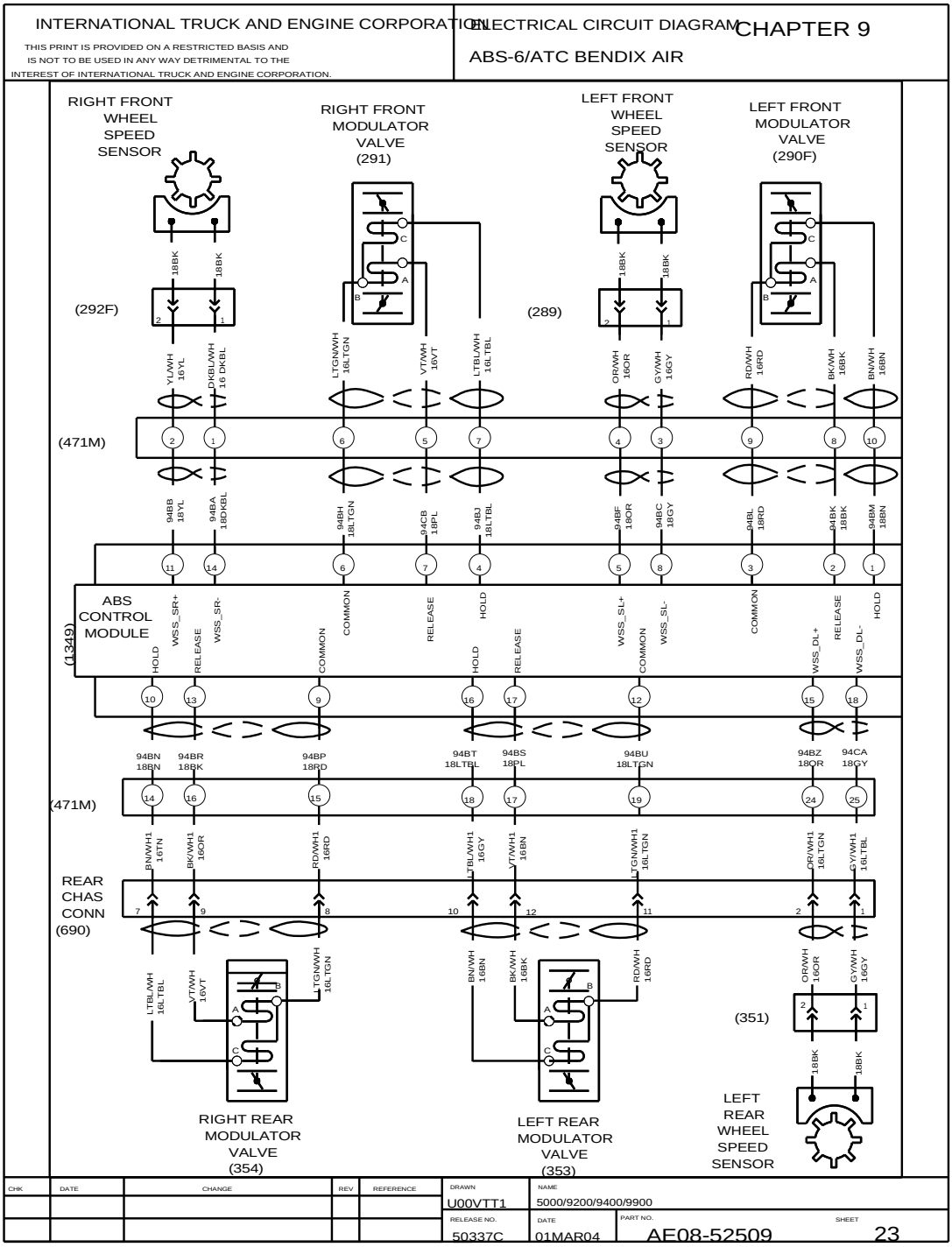

Figure 104 ABS6/ATC Bendix Air

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

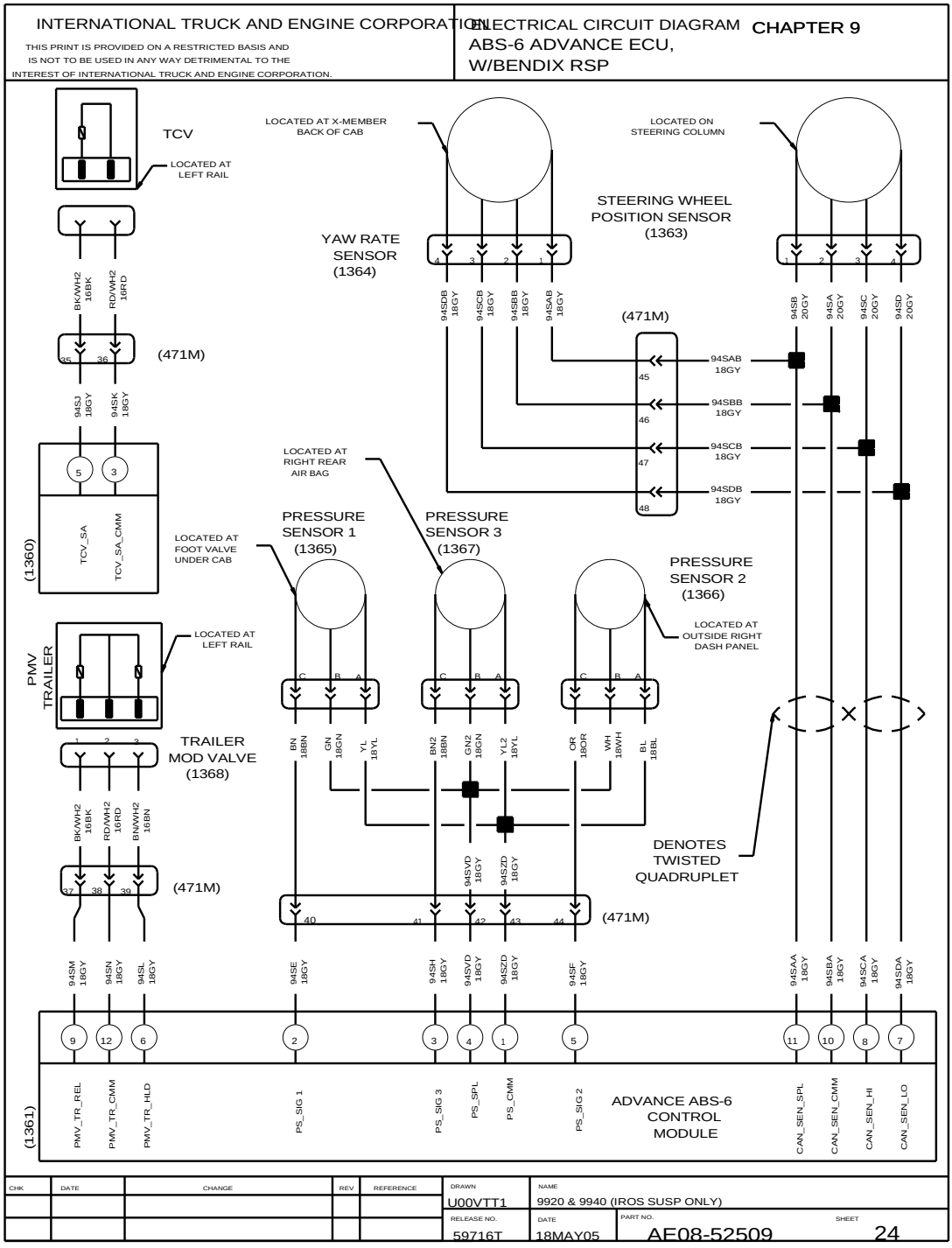

Figure 105 ABS6 Advance ECU, W/Bendix RSP

9.25. EATON AUTOSHIFT 3, P. 25

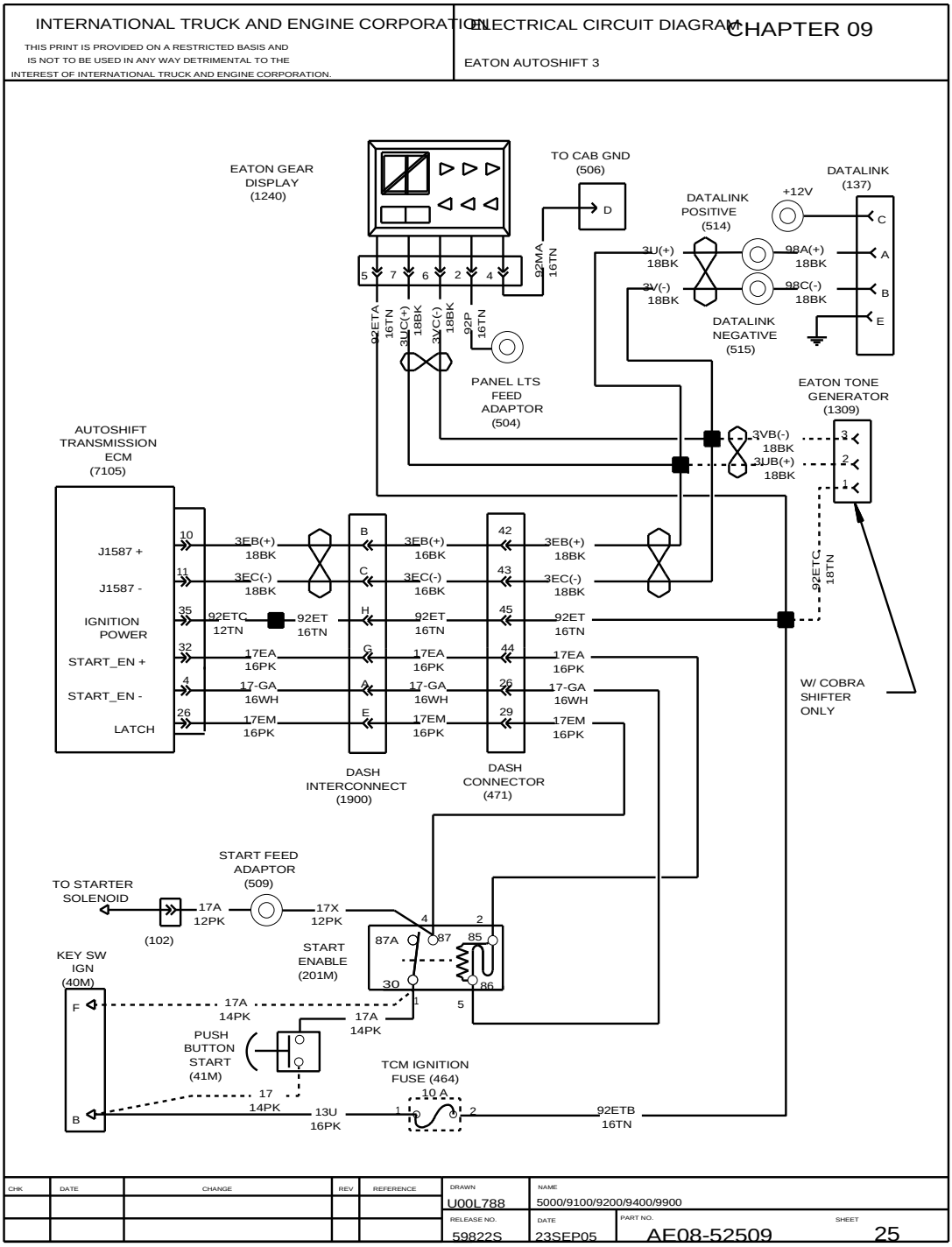

Figure 106 Eaton Autoshift 3

9.26. EATON AUTOSHIFT 3, P. 26

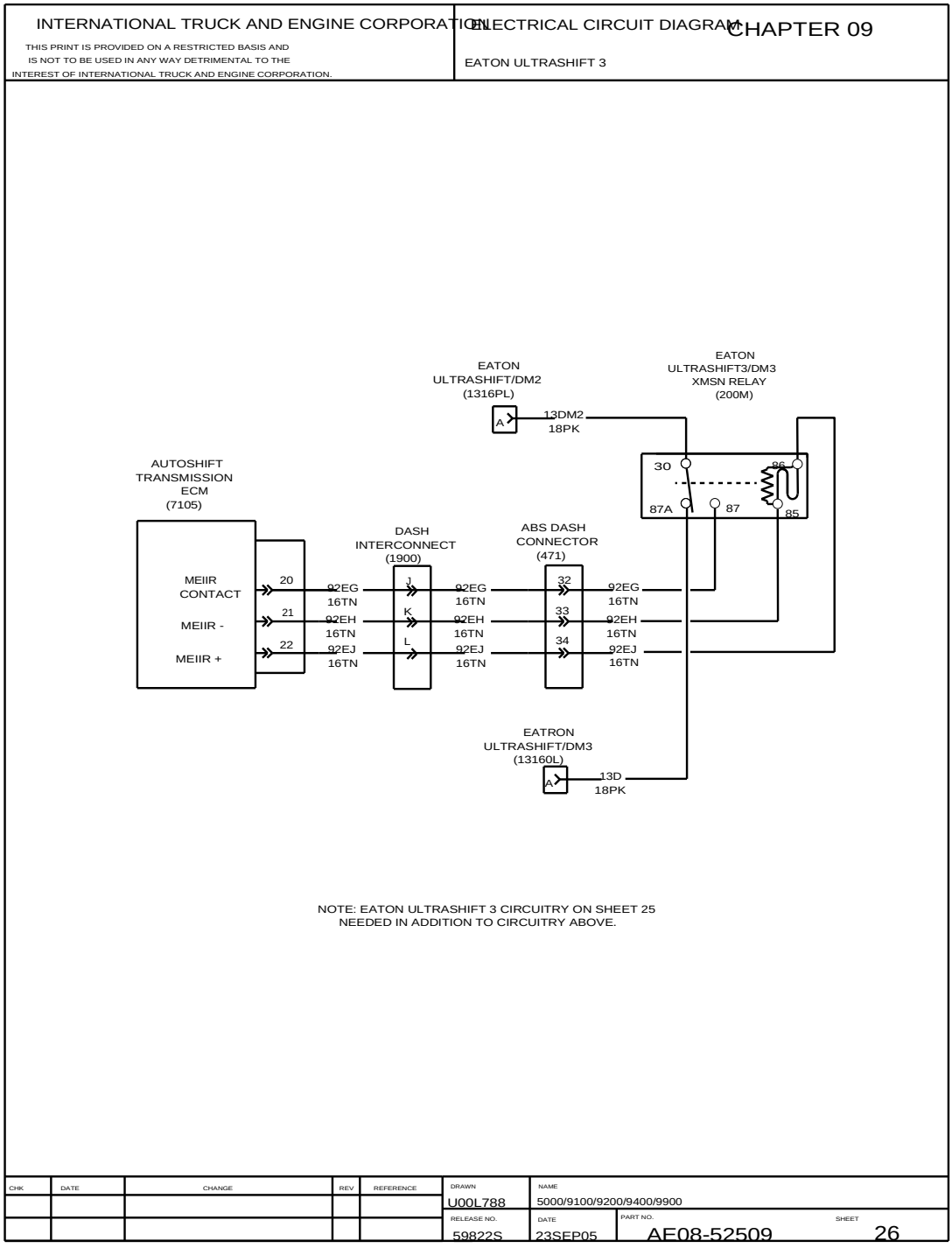

Figure 107 Eaton Autoshift 3

9.27. EATON AUTOSHIFT 3 W/PUSH BUTTON SHIFTER, P. 27

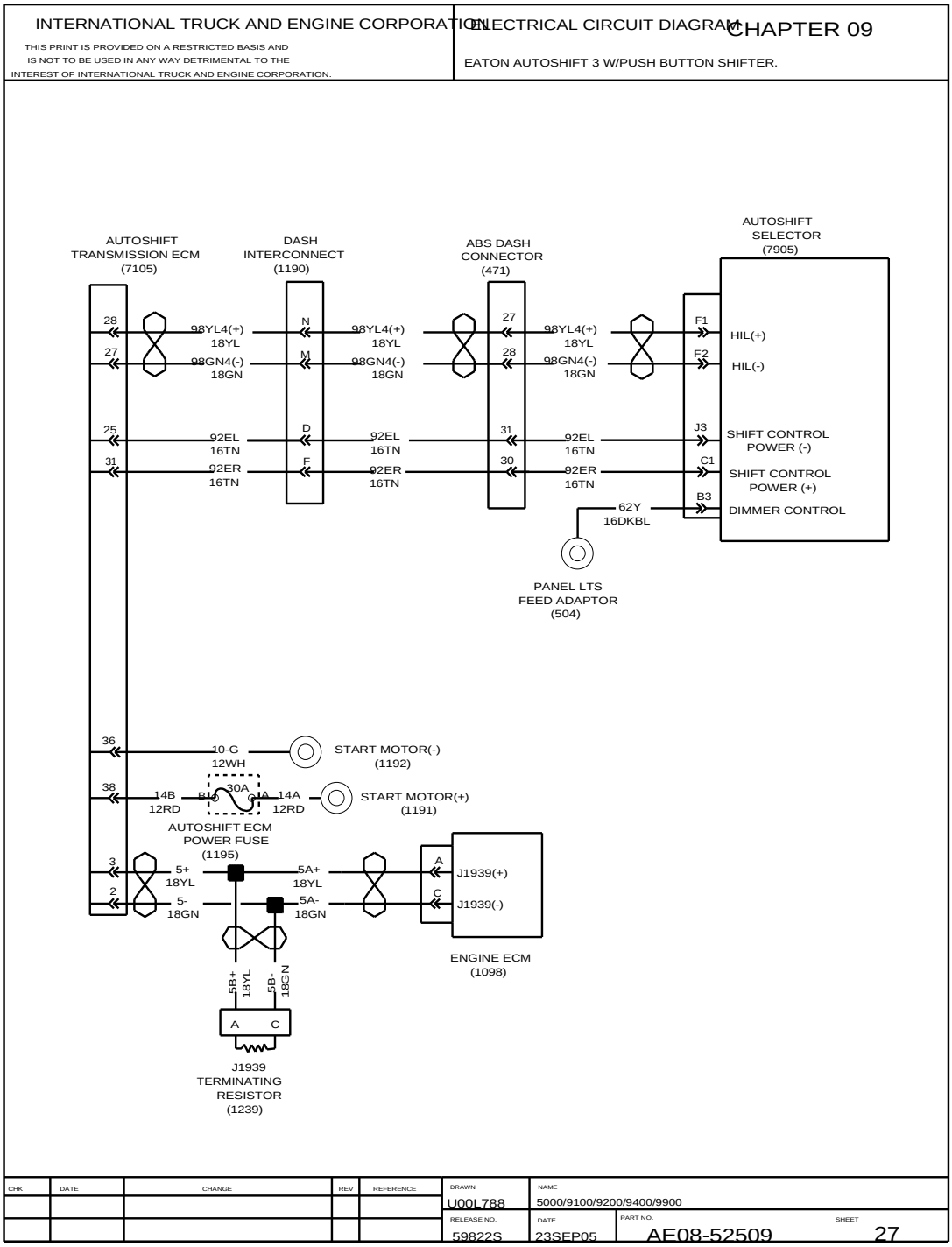

Figure 108 Eaton Autoshift 3 W/Push Button Shifter

9.28. EATON AUTOSHIFT 3 W/COBRA SHIFTER, P. 28

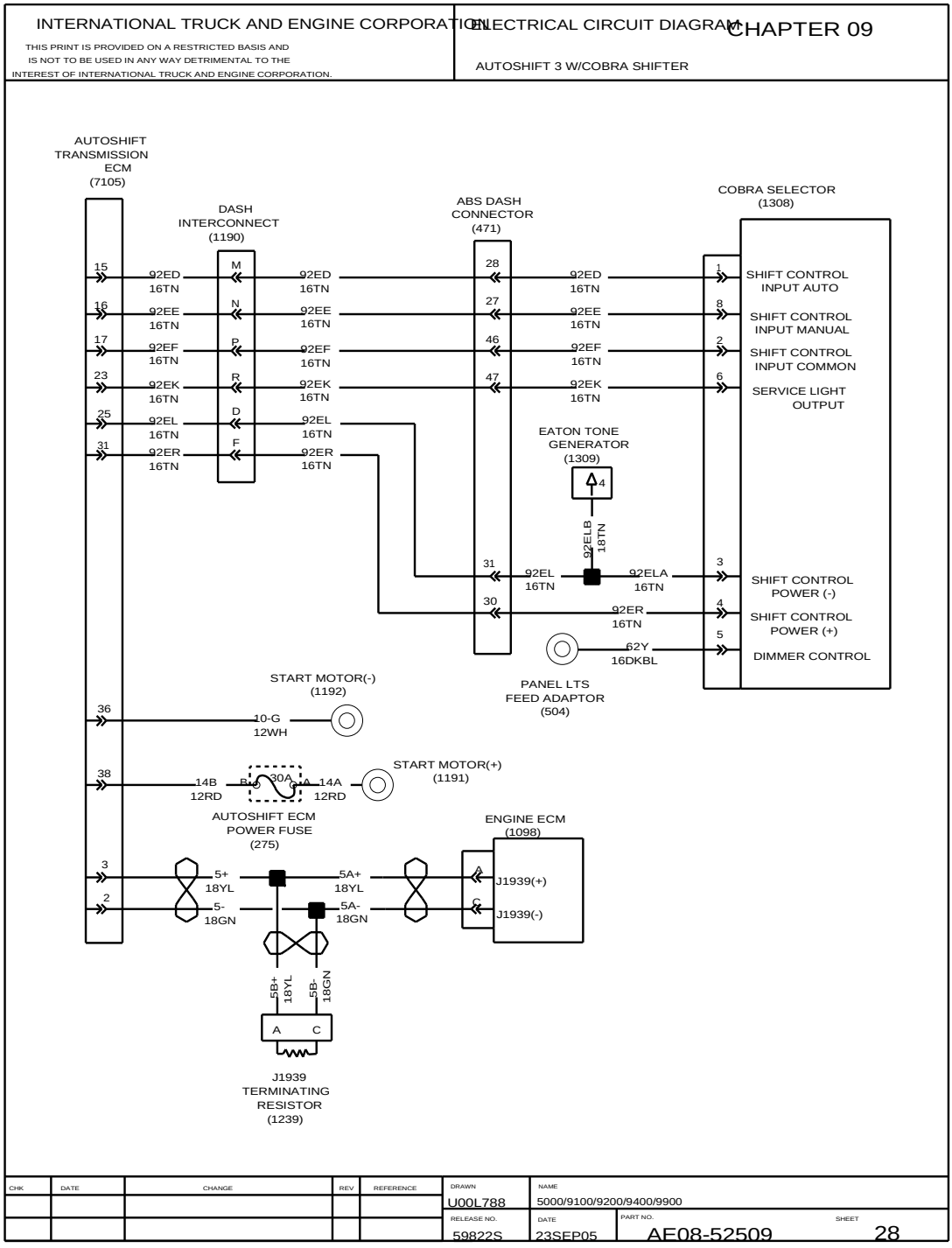

Figure 109 Eaton Autoshift 3 W/Cobra Shifter

10. SLEEPER LIGHTING AND ACCESSORIES (CHAPTER 10)

10.1. AUXILIARY CIRCULATION FAN (LOW ROOF), P. 1

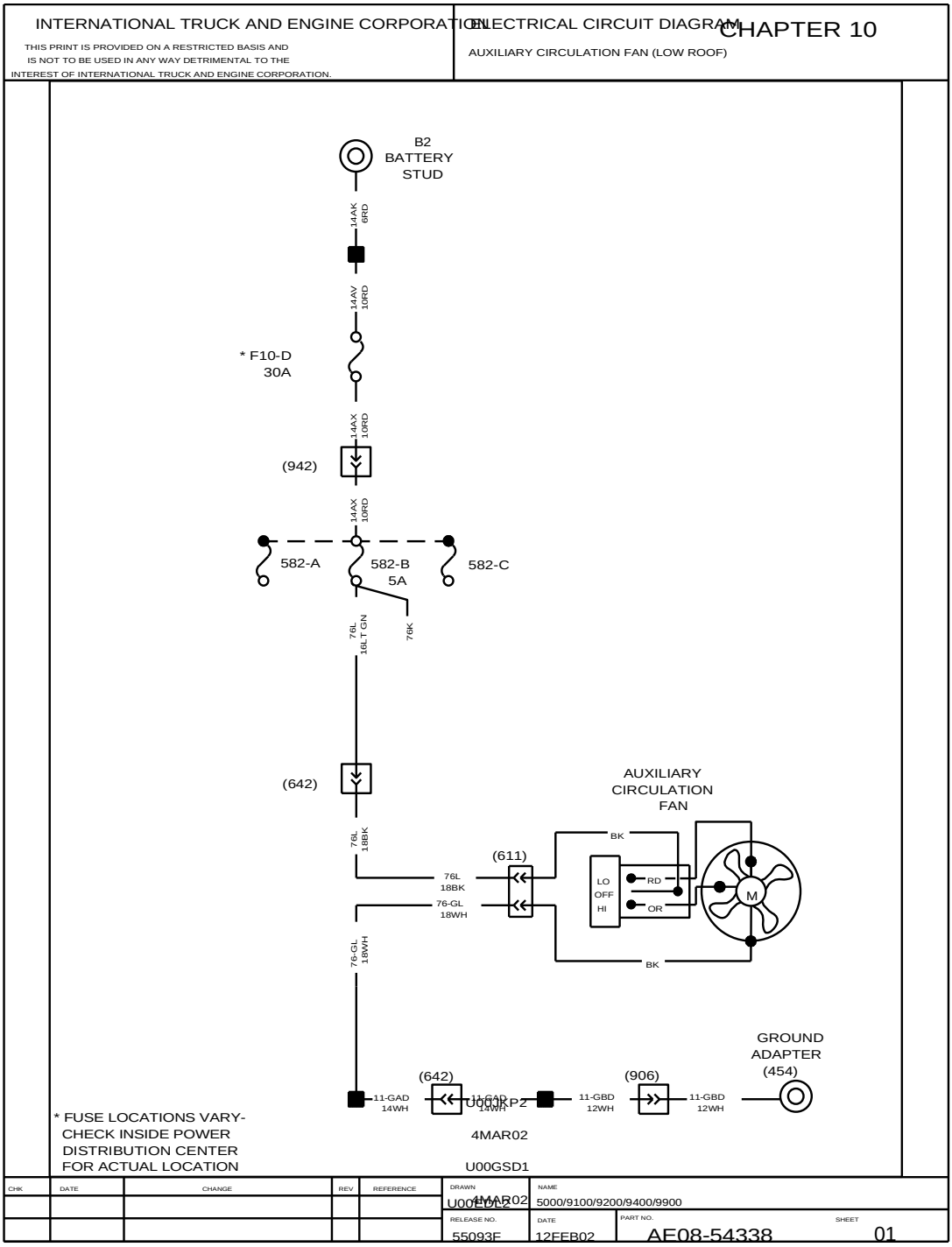

Figure 110 Auxiliary Circulation Fan (Low Roof)

10.2. AUXILIARY CIRCULATION FAN (HIGH ROOF), P. 2

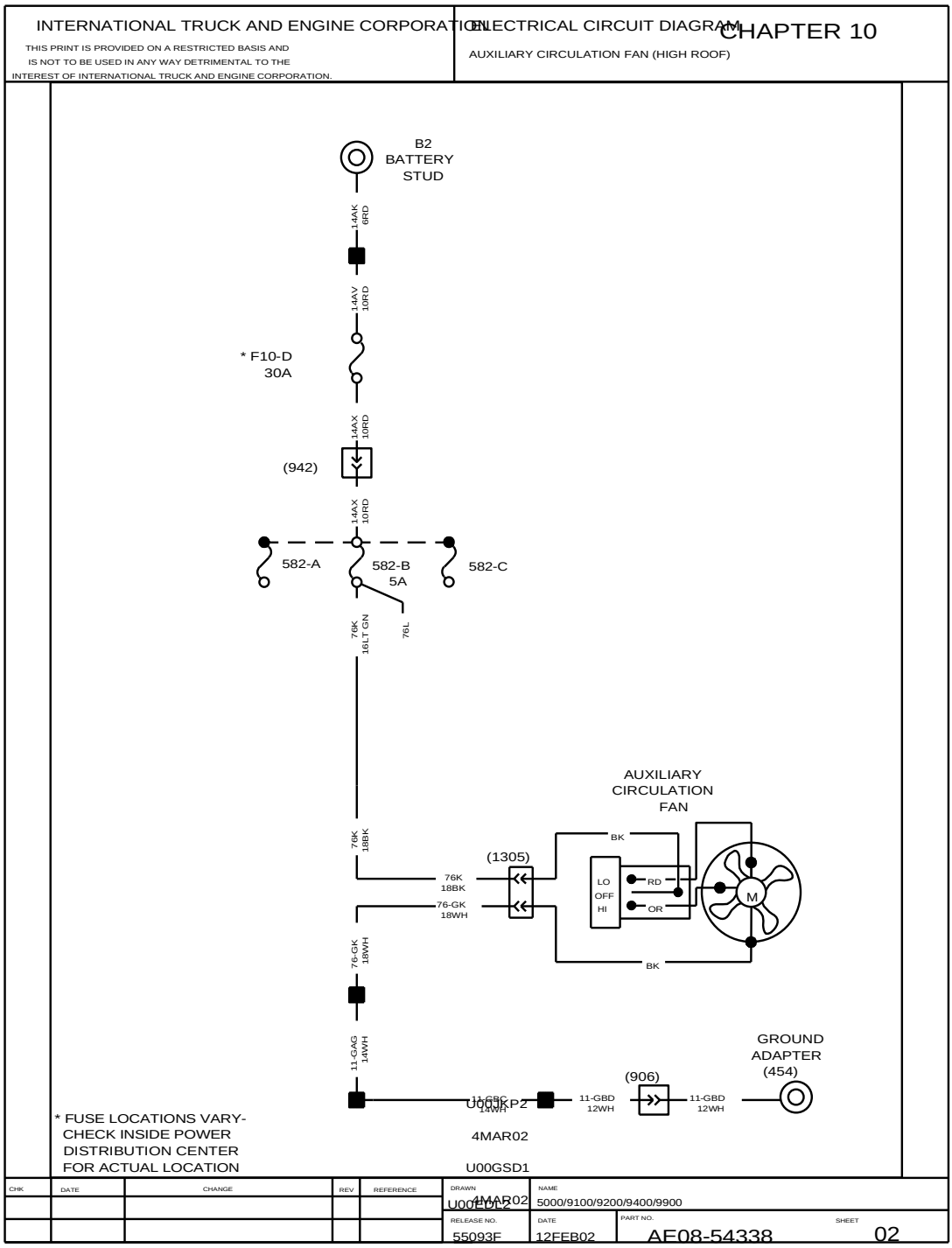

Figure 111 Auxiliary Circulation Fan (High Roof)

10.3. AUXILIARY CIRCULATION FAN (SKYRISE), P. 3

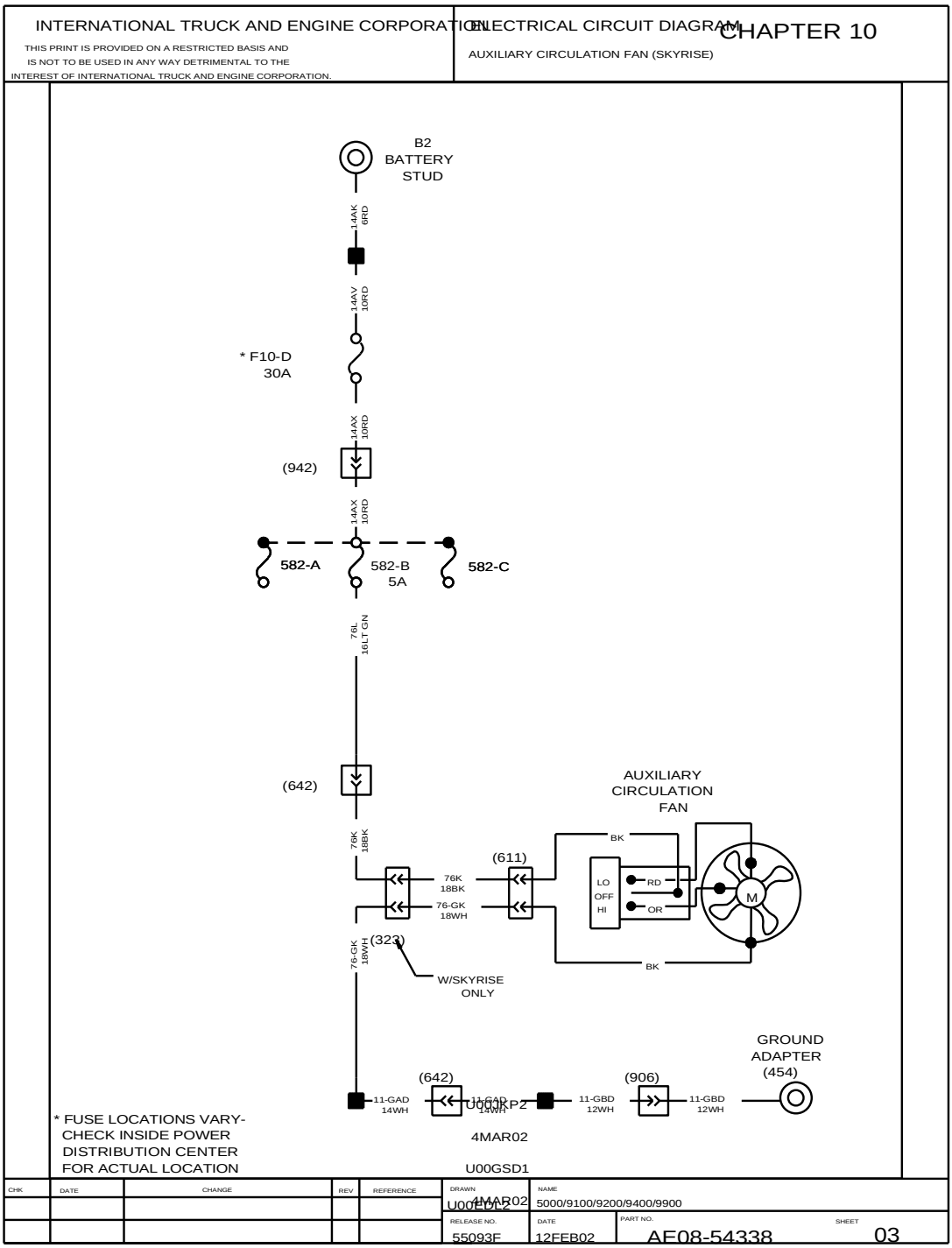

Figure 112 Auxiliary Circulation Fan (Skyrise)

10.4. BUNK FLUORESCENT AND READING LIGHTS, P. 4

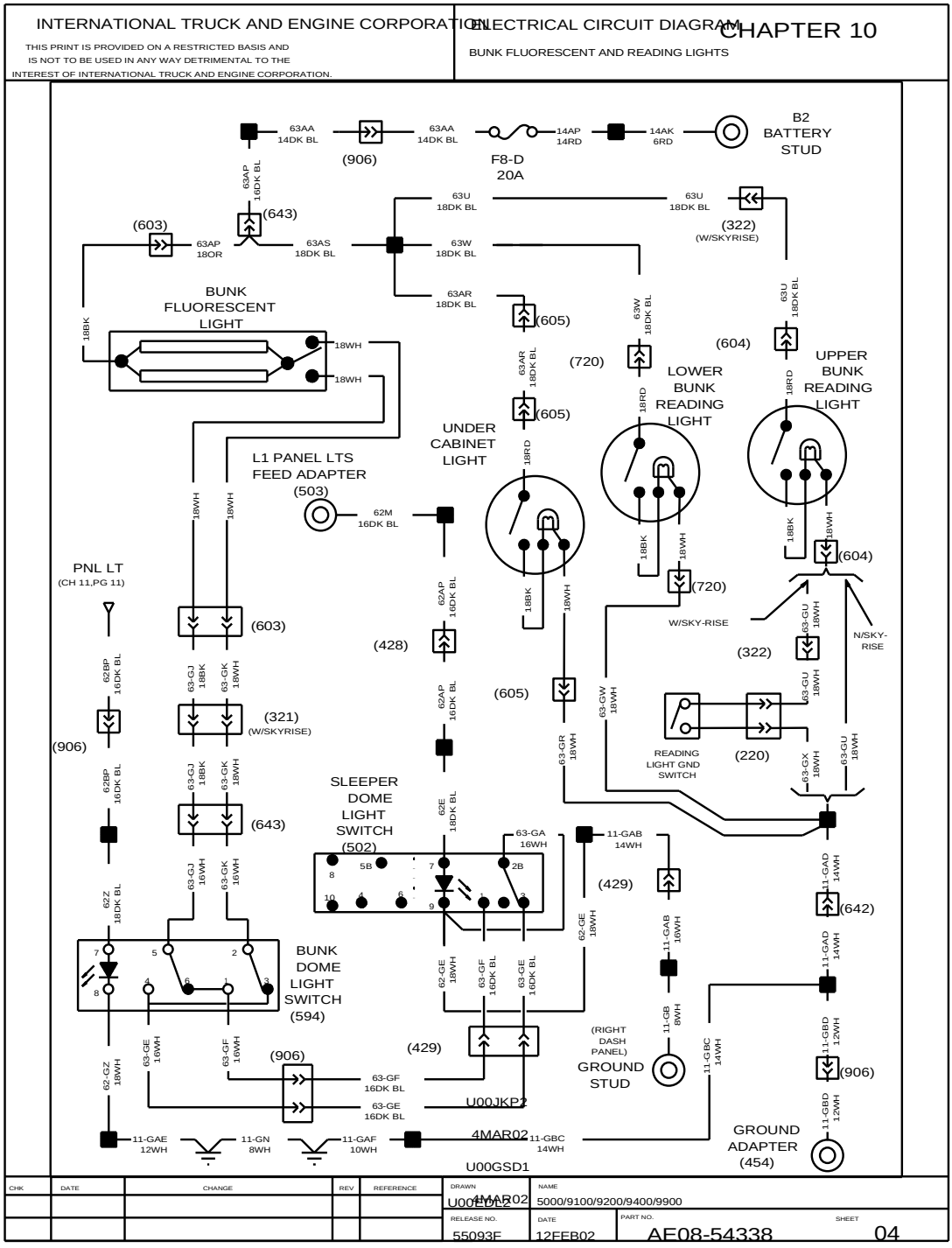

Figure 113 Bunk Fluorescent and Reading Lights

10.5. BUNK SPEAKERS, P. 5

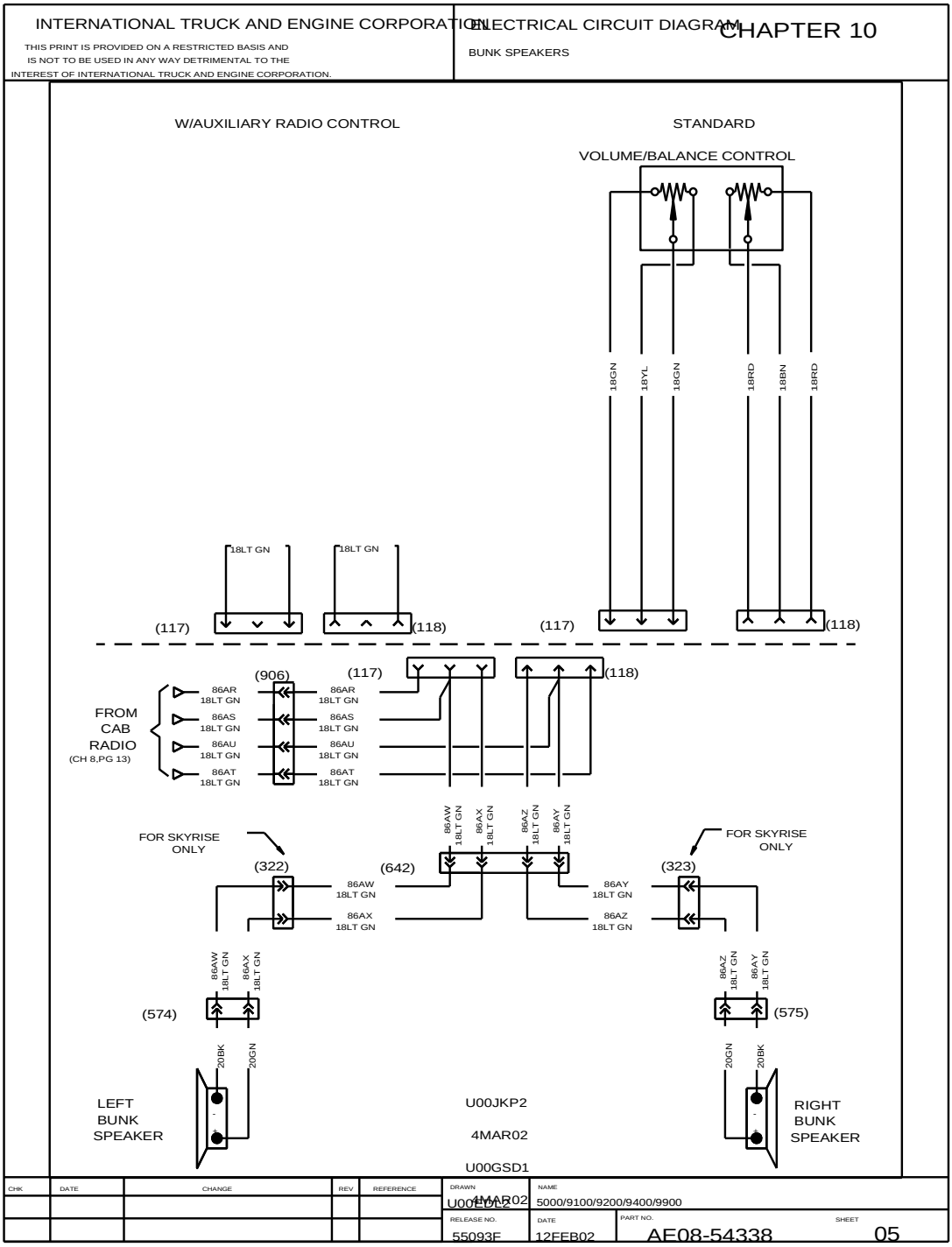

Figure 114 Bunk Speakers

10.6. LUGGAGE COMPARTMENT LIGHTS, P. 6

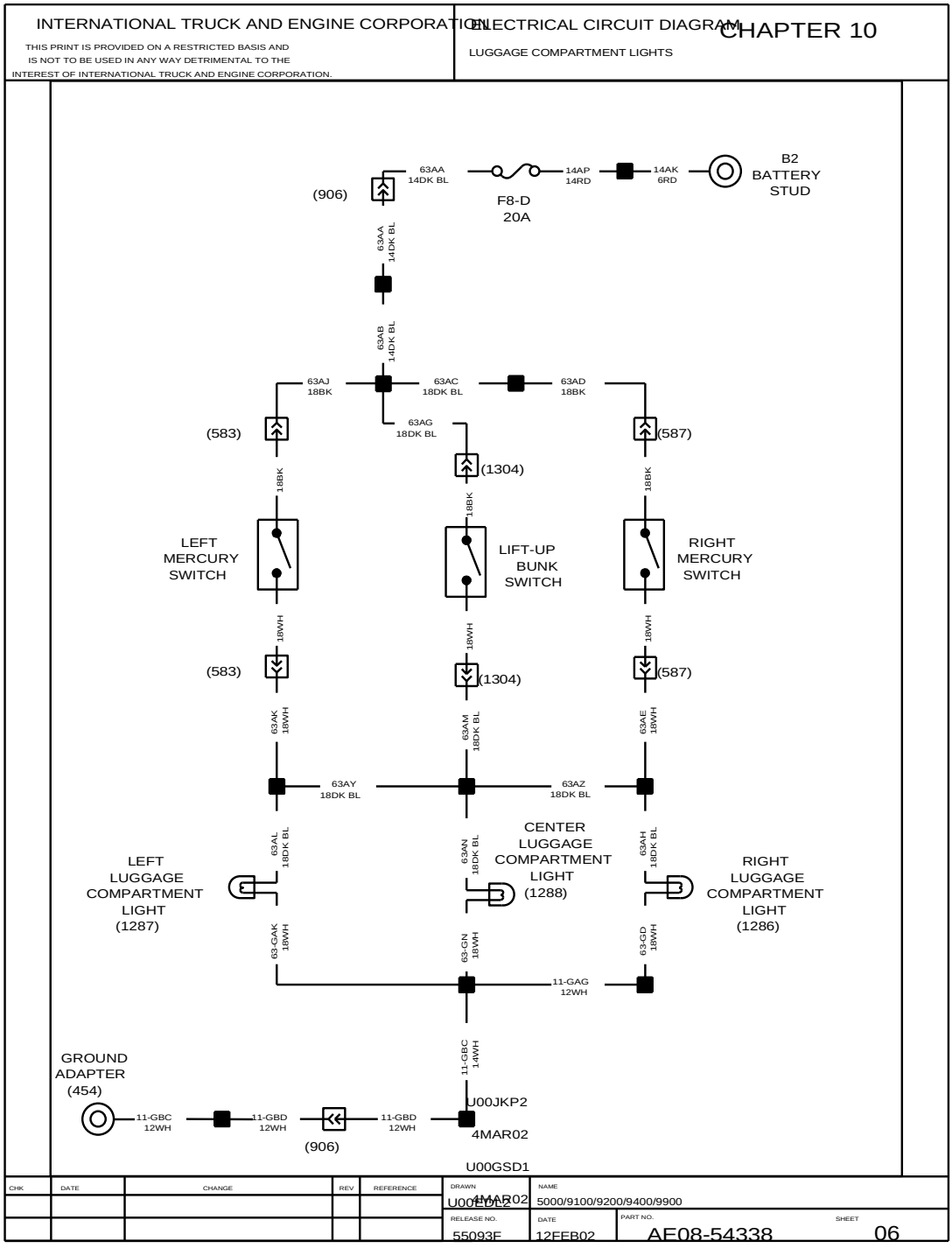

Figure 115 Luggage Compartment Lights

10.7. POWER SOURCE, P. 7

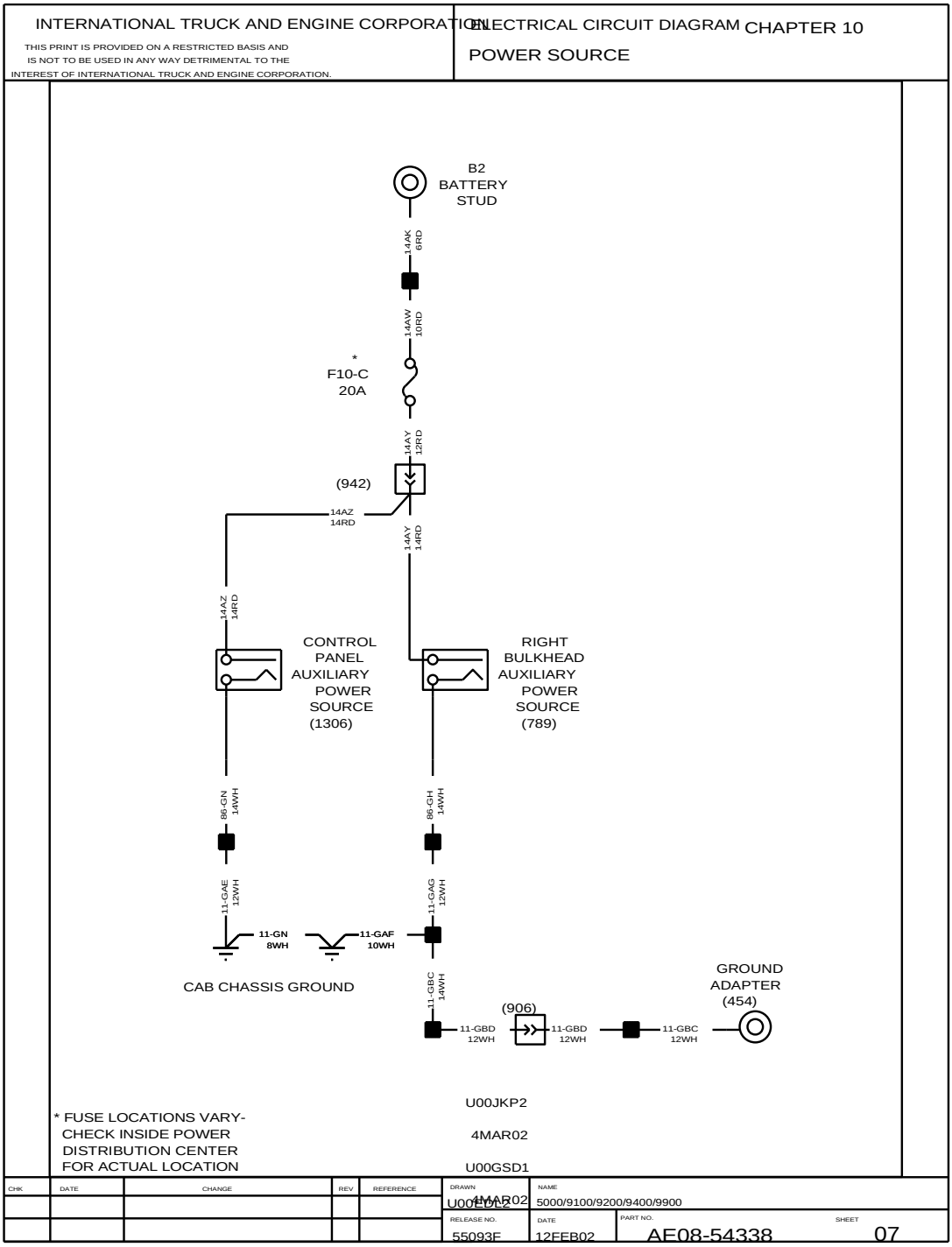

Figure 116 Power Source

10.8. REFRIGERATOR WIRING, P. 8

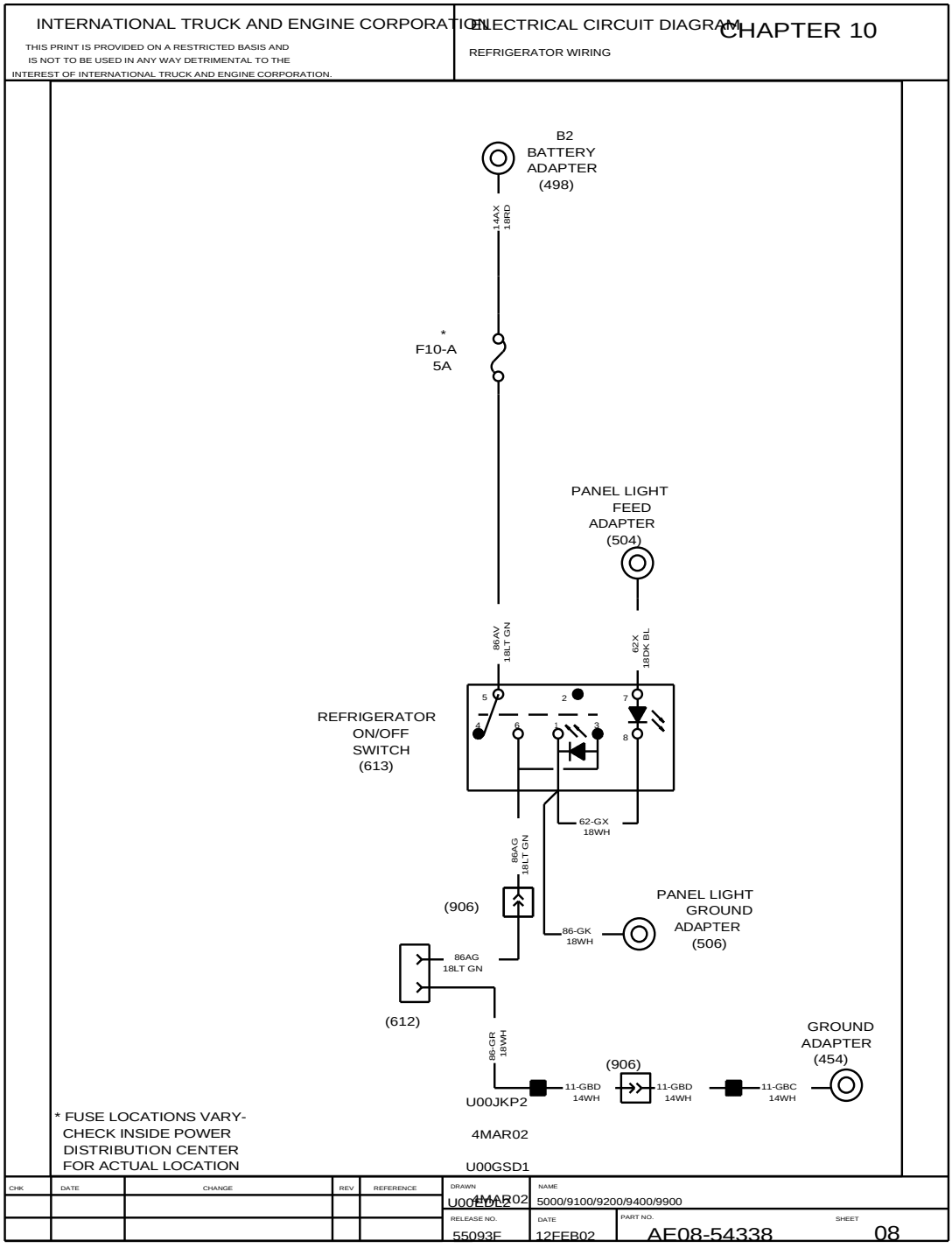

Figure 117 Refrigerator Wiring

10.9. TV/VCR WIRING, P. 9

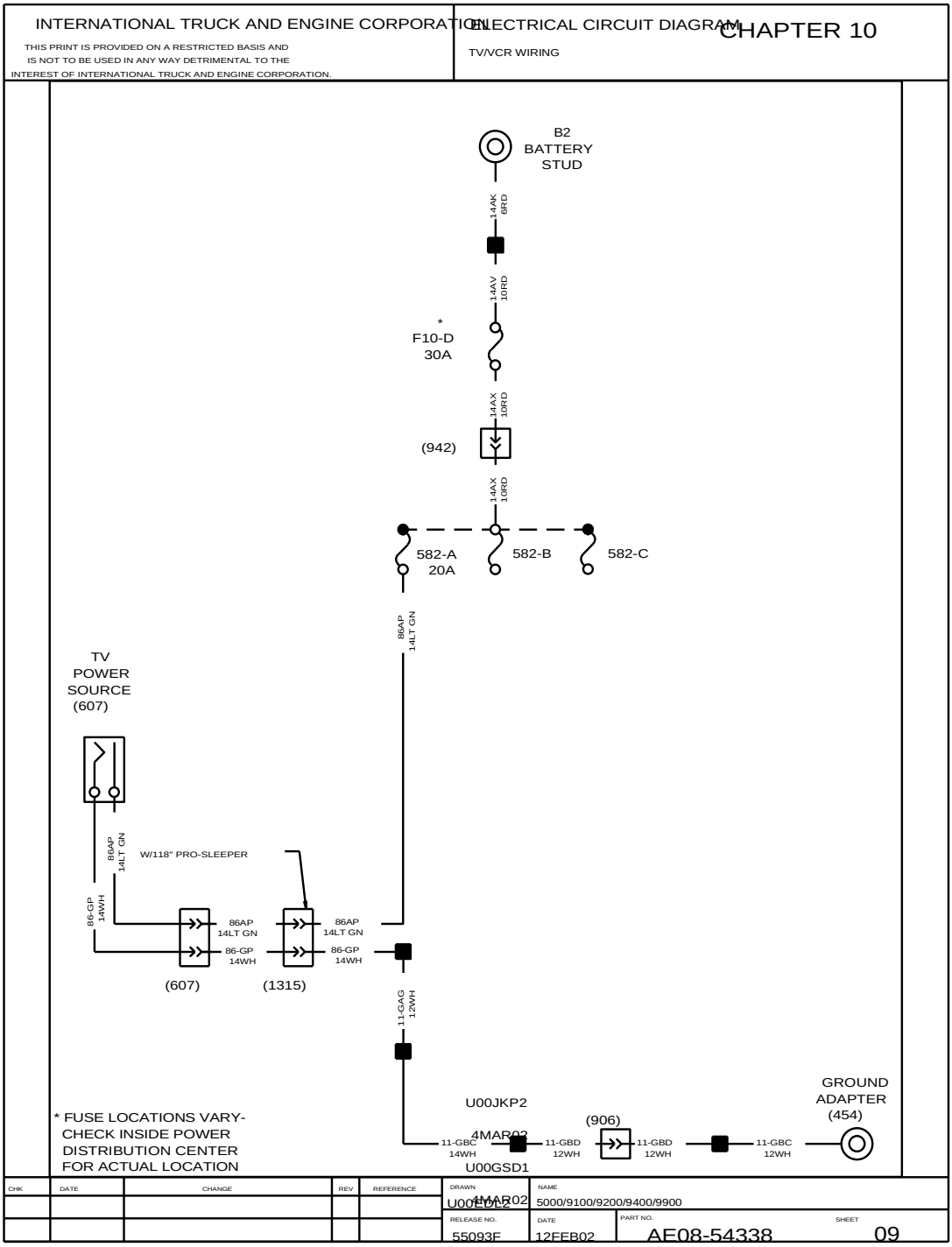

Figure 118 TV/VCR Wiring

10.10. OVERHEAD CABINETS, ACCENT LIGHTS, P. 10

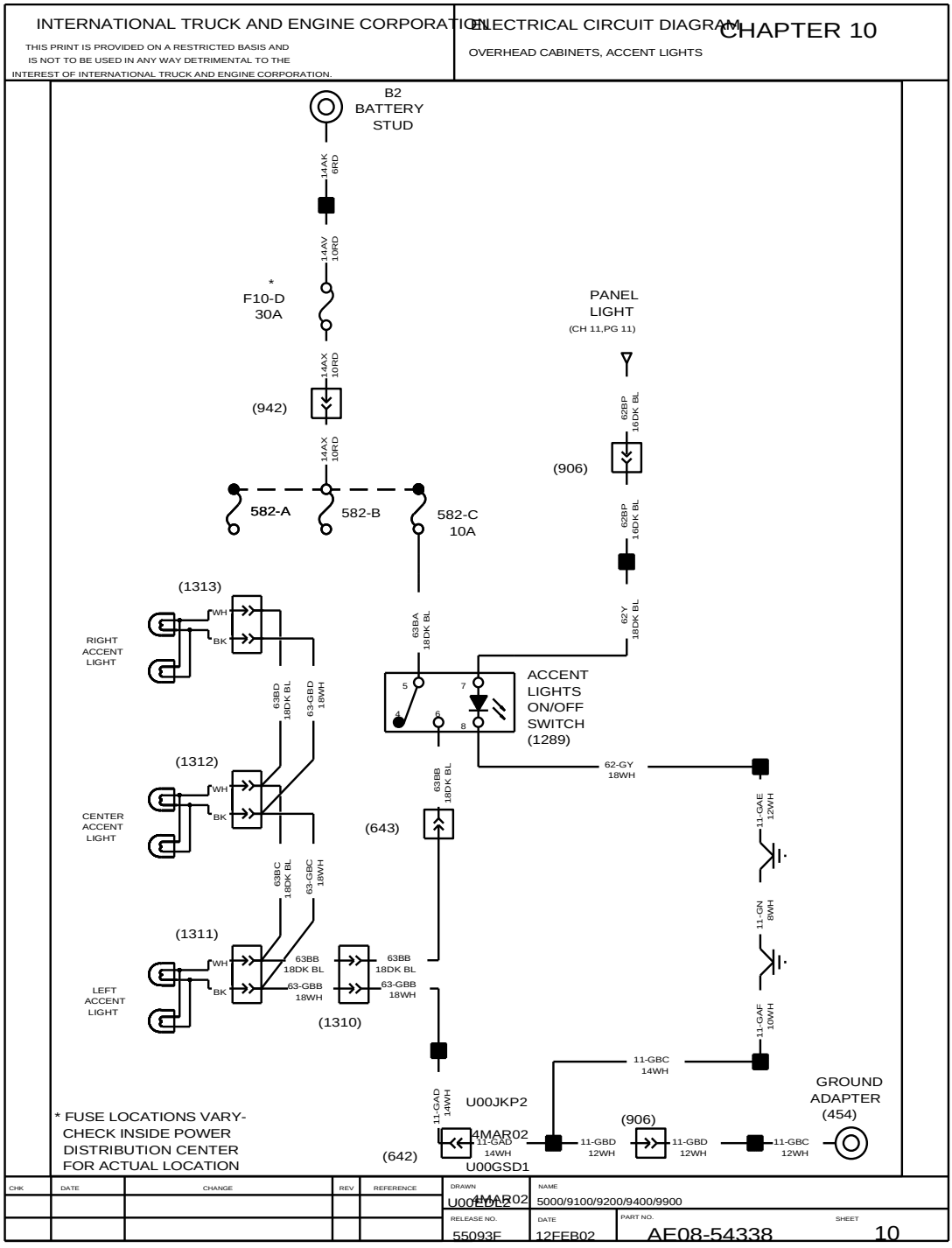

Figure 119 Overhead Cabinets, Accent Lights

10.11. OPTIONAL SLEEPER MOUNTED RADIO CONTROLS, P. 11

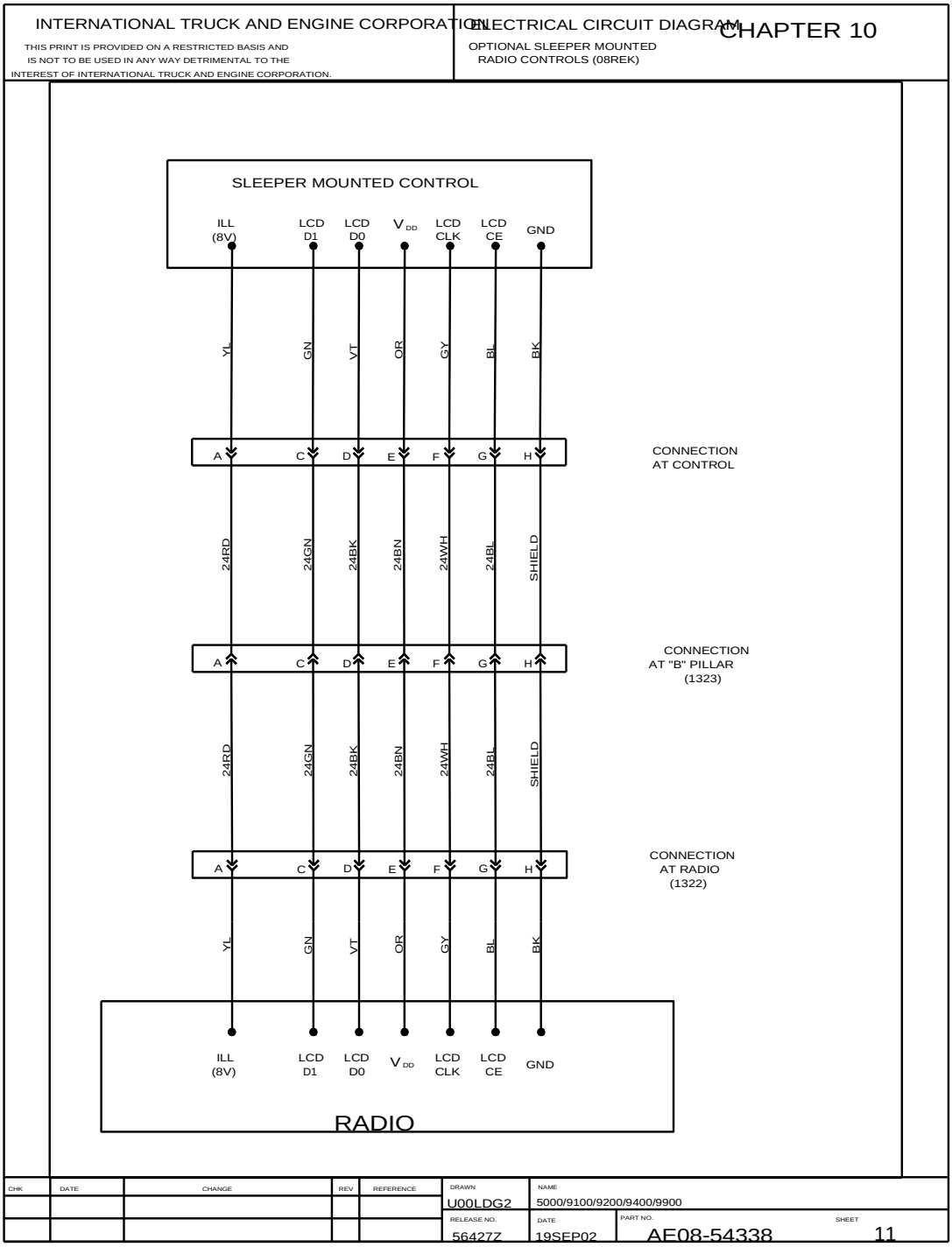

Figure 120 Optional Sleeper Mounted Radio Controls

10.12. SHORE POWER WIRING (08WET) NOT WITH INVERTER, P. 12

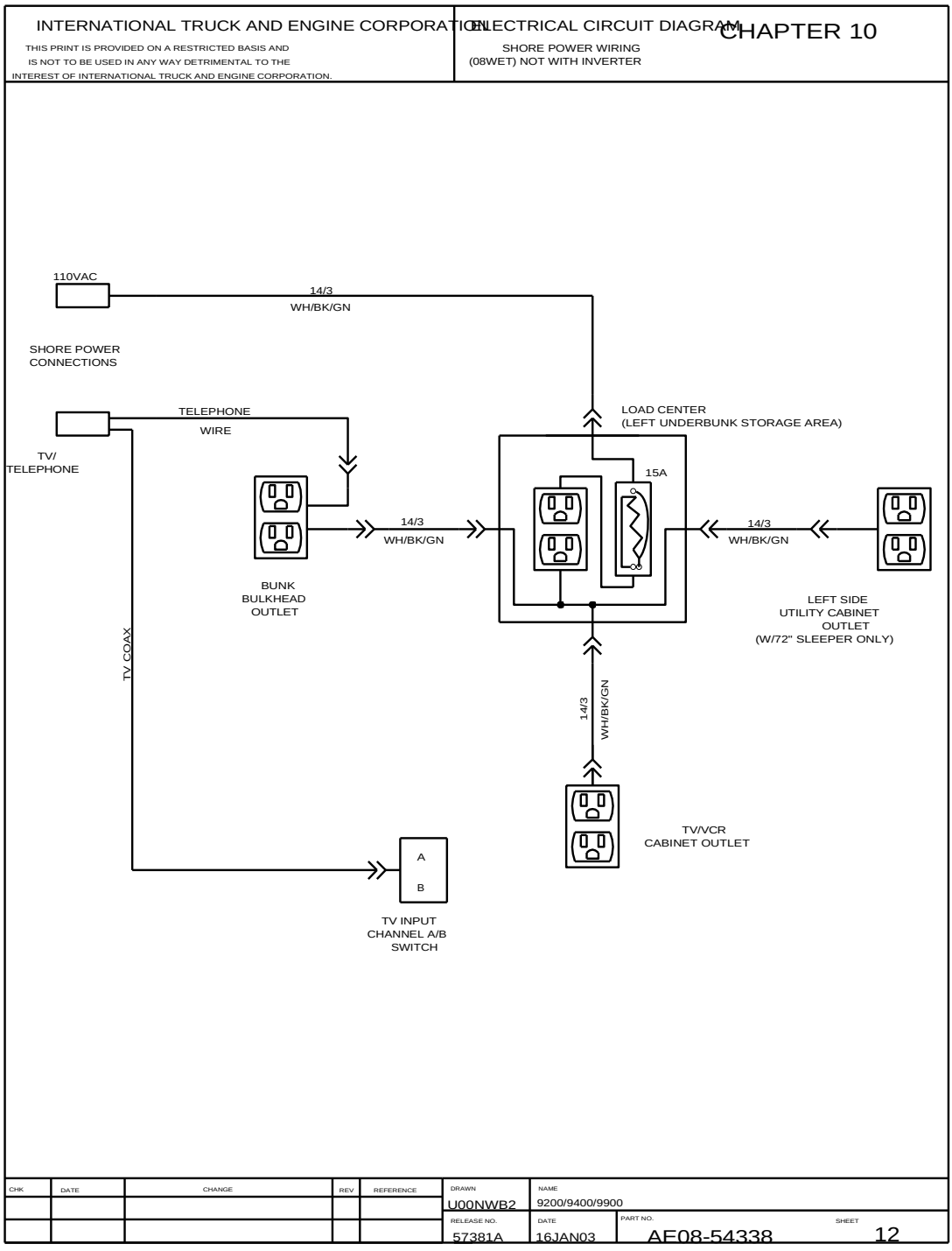

Figure 121 Shore Power Wiring (08WET) Not With Inverter

10.13. SHORE POWER WIRING (08WET) WITH INVERTER (08WES), P. 13

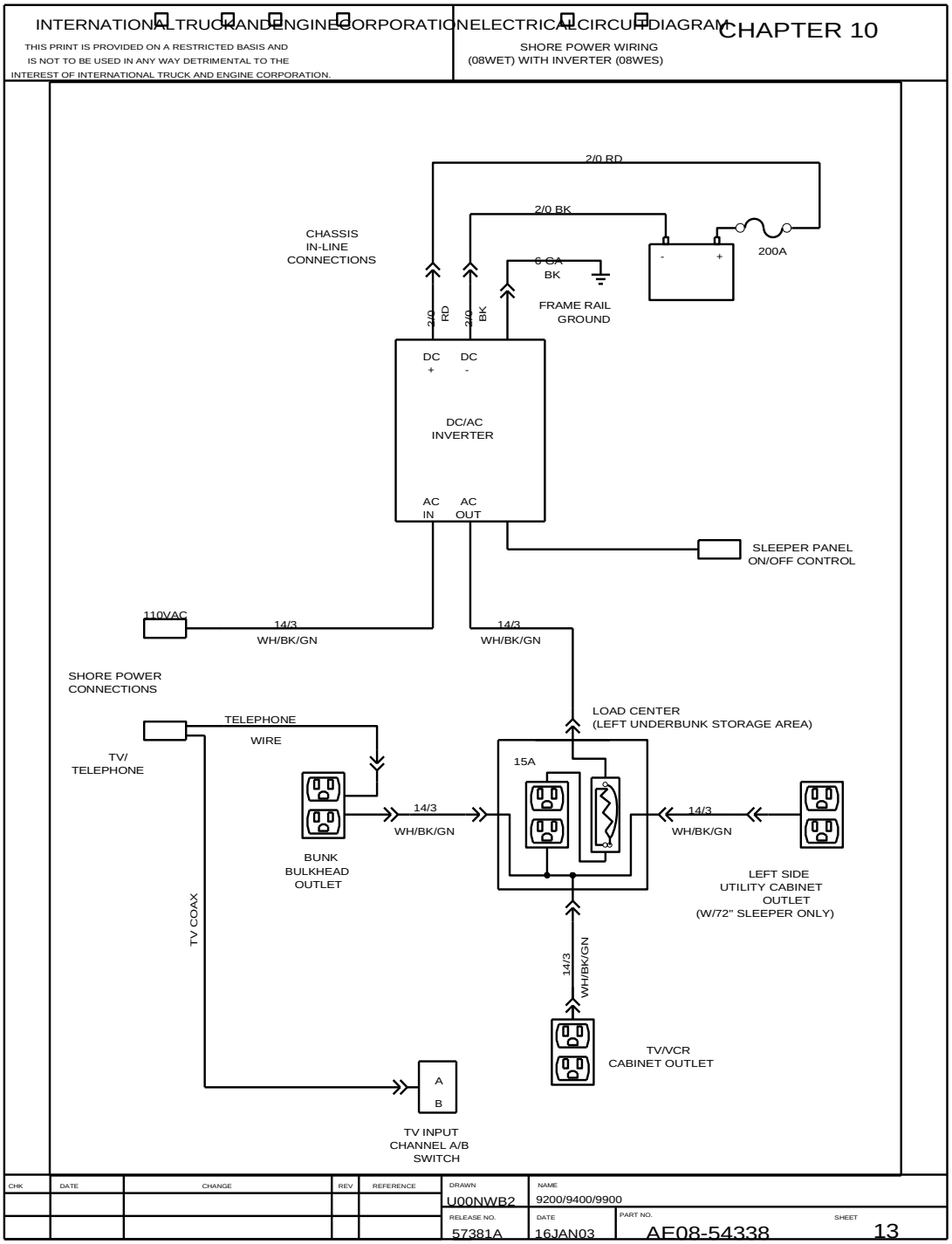

Figure 122 Shore Power Wiring (08WET) With Inverter (08WES)

11. LIGHT SYSTEMS (CHAPTER 11)

11.1. BACK-UP LIGHTS, P. 1

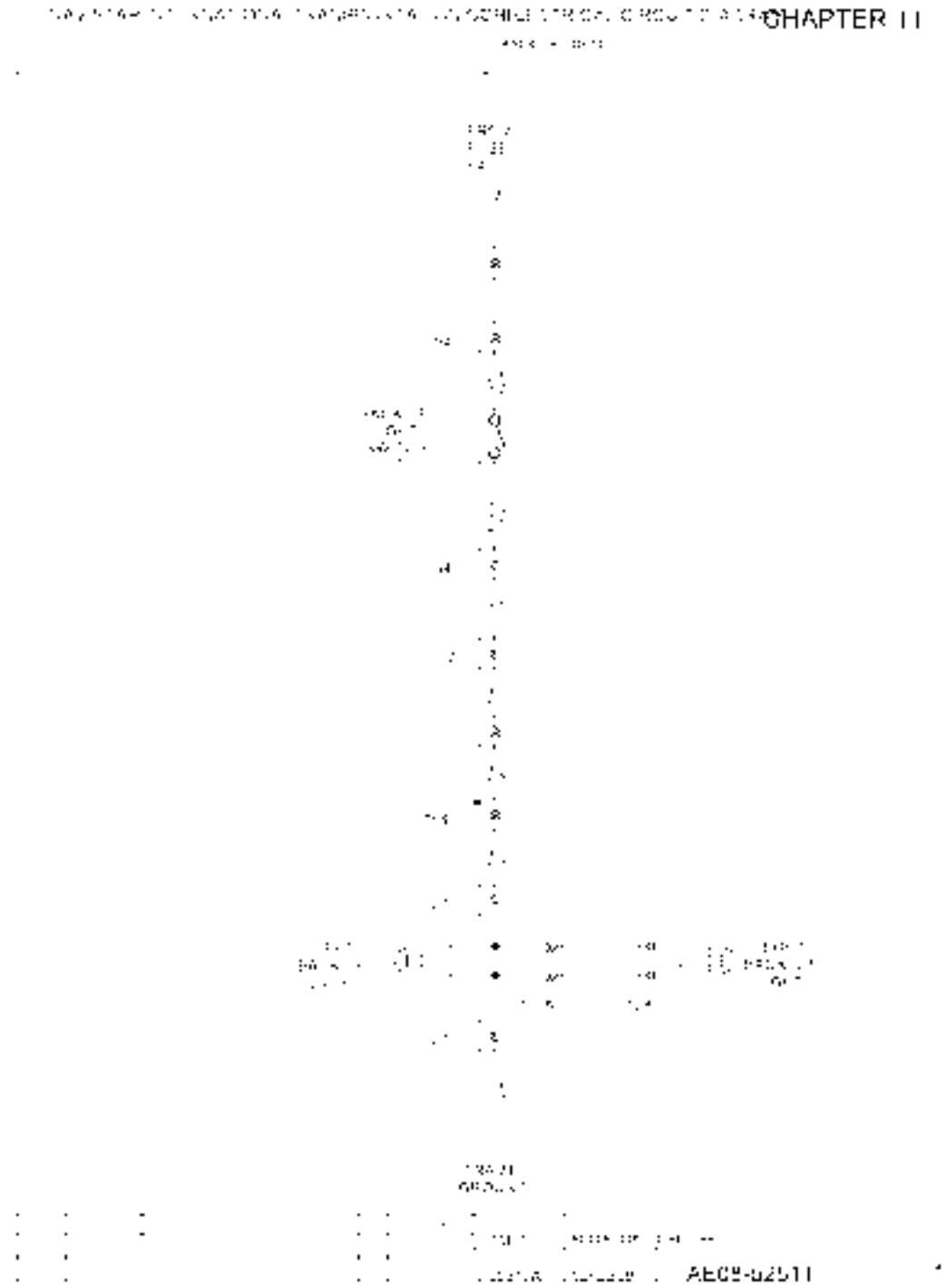

Figure 123 Back-Up Lights

11.2. CAB AND TRAILER LIGHTS SWITCH AND RELAYS WIRING, P. 2

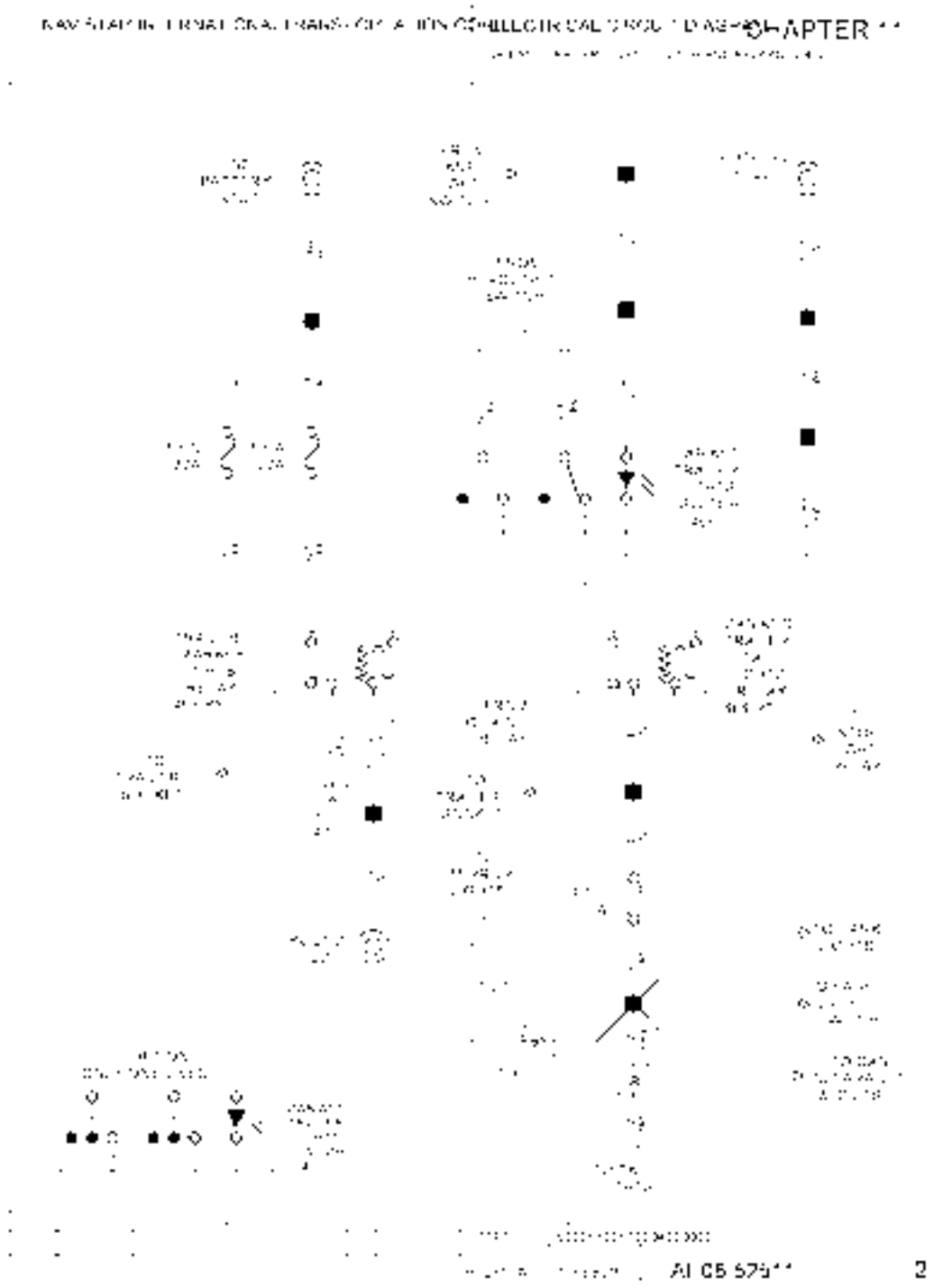

Figure 124 Cab and Trailer Lights Switch and Relays Wiring

11.3. CAB CLEARANCE AND IDENTIFICATION LIGHTS, P. 3

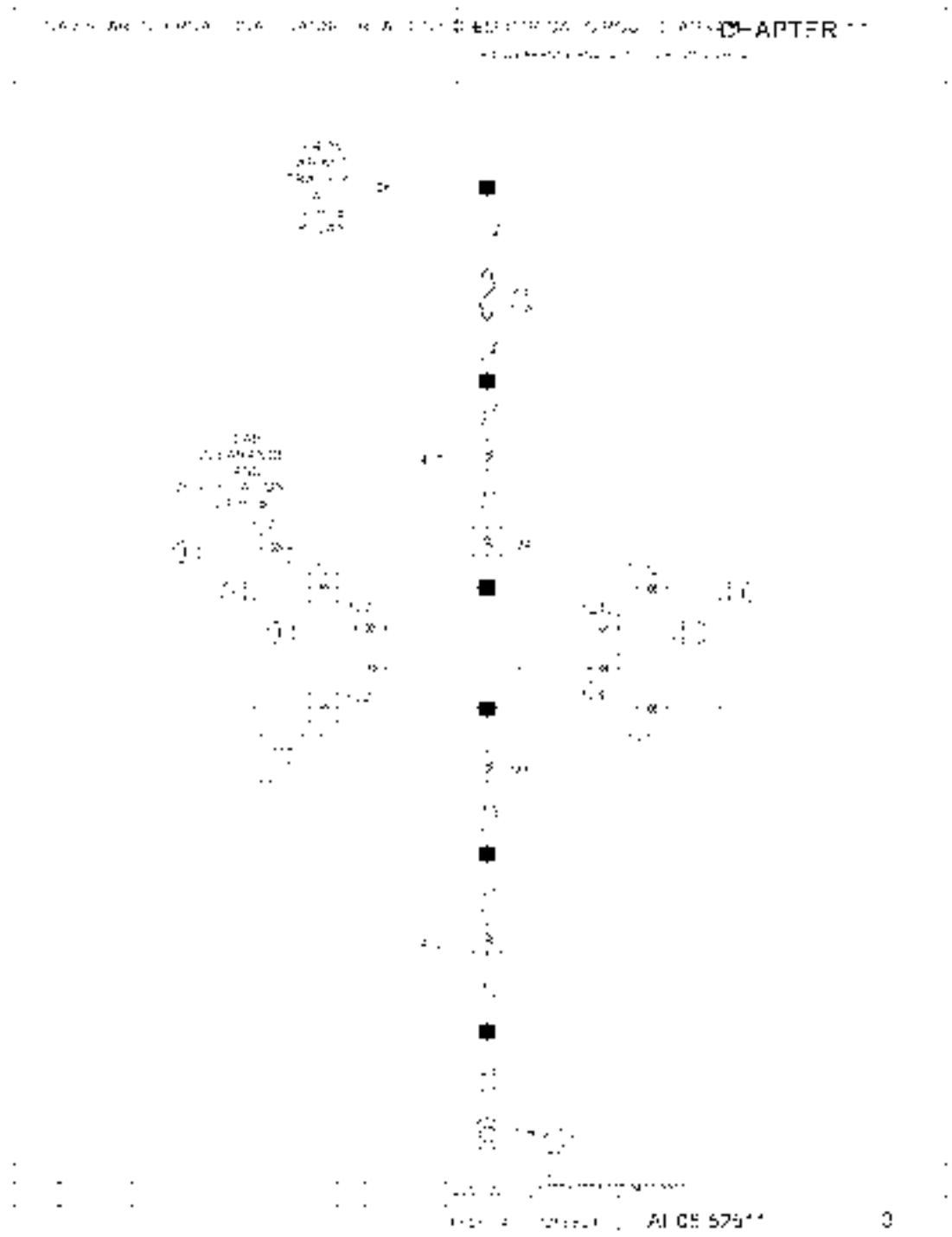

Figure 125 Cab Clearance and Identification Lights

11.4. WORK LIGHT N/SLEEPER, P. 4

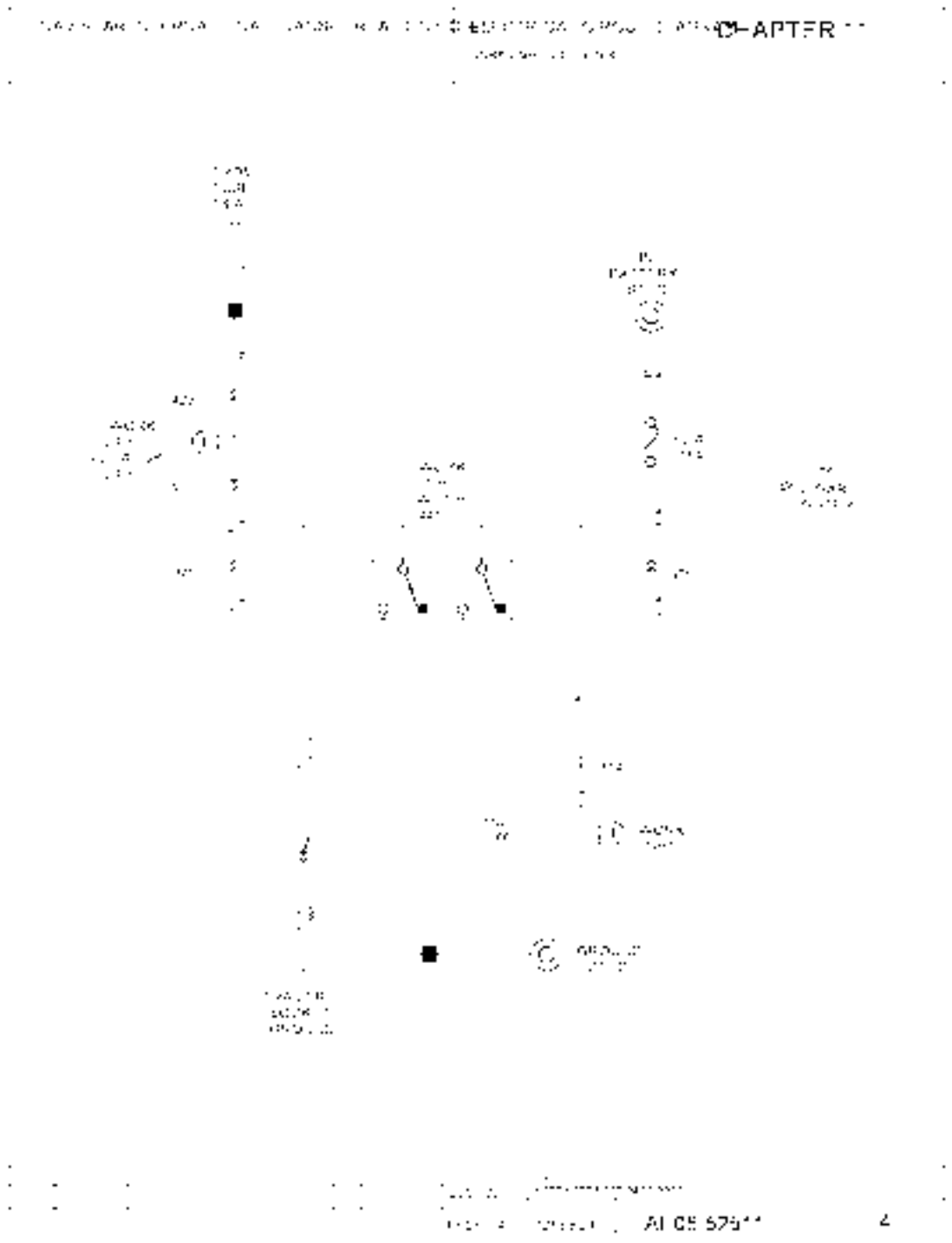

Figure 126 Work Light N/Sleeper

11.5. CAB DOME, READING AND COURTESY LIGHTS N/SKYRISE, P. 5

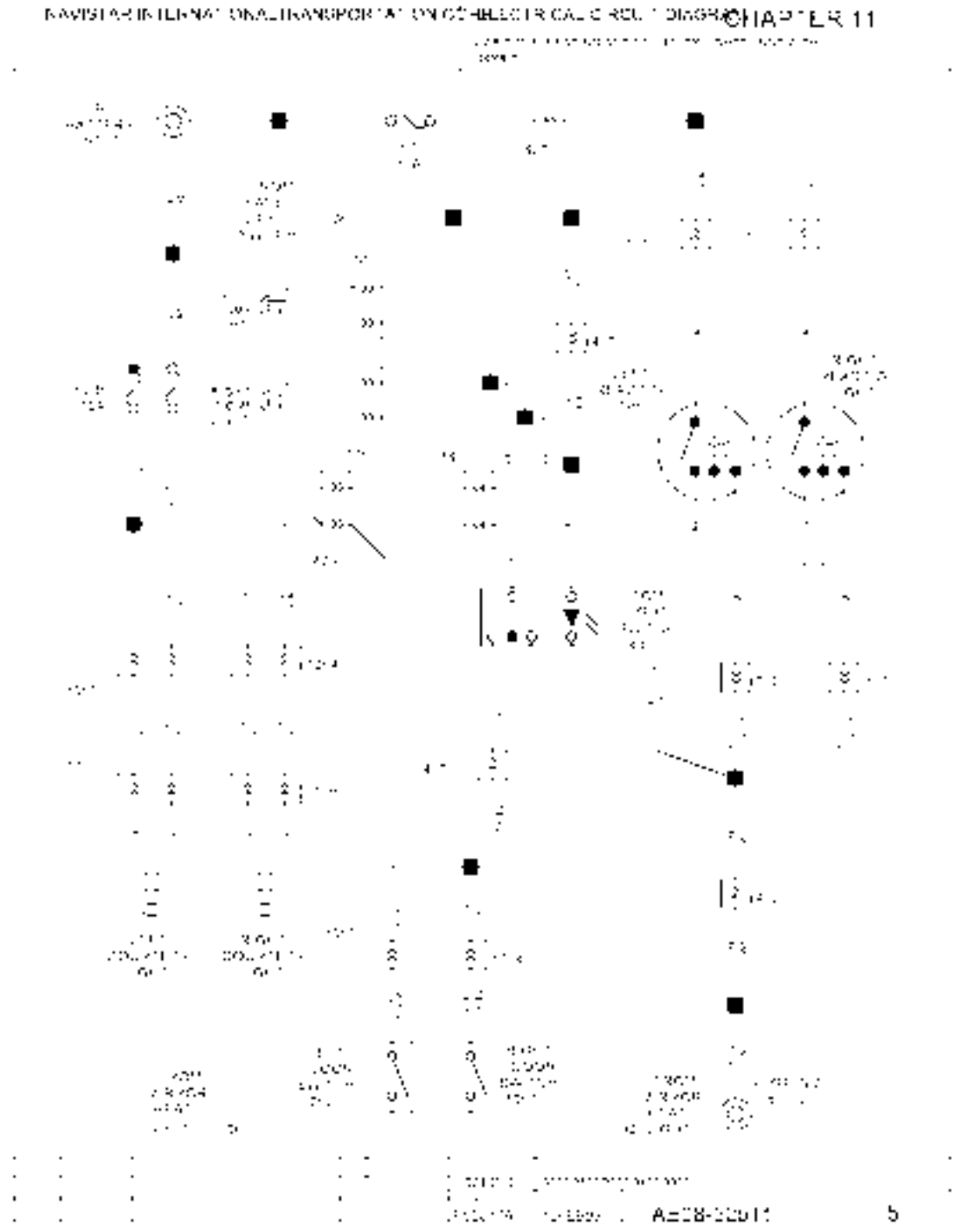

Figure 127 Cab Dome, Reading and Courtesy Lights N/Skyrise

11.6. CAB DOME, READING AND COURTESY LIGHTS W/SKYRISE, P. 6

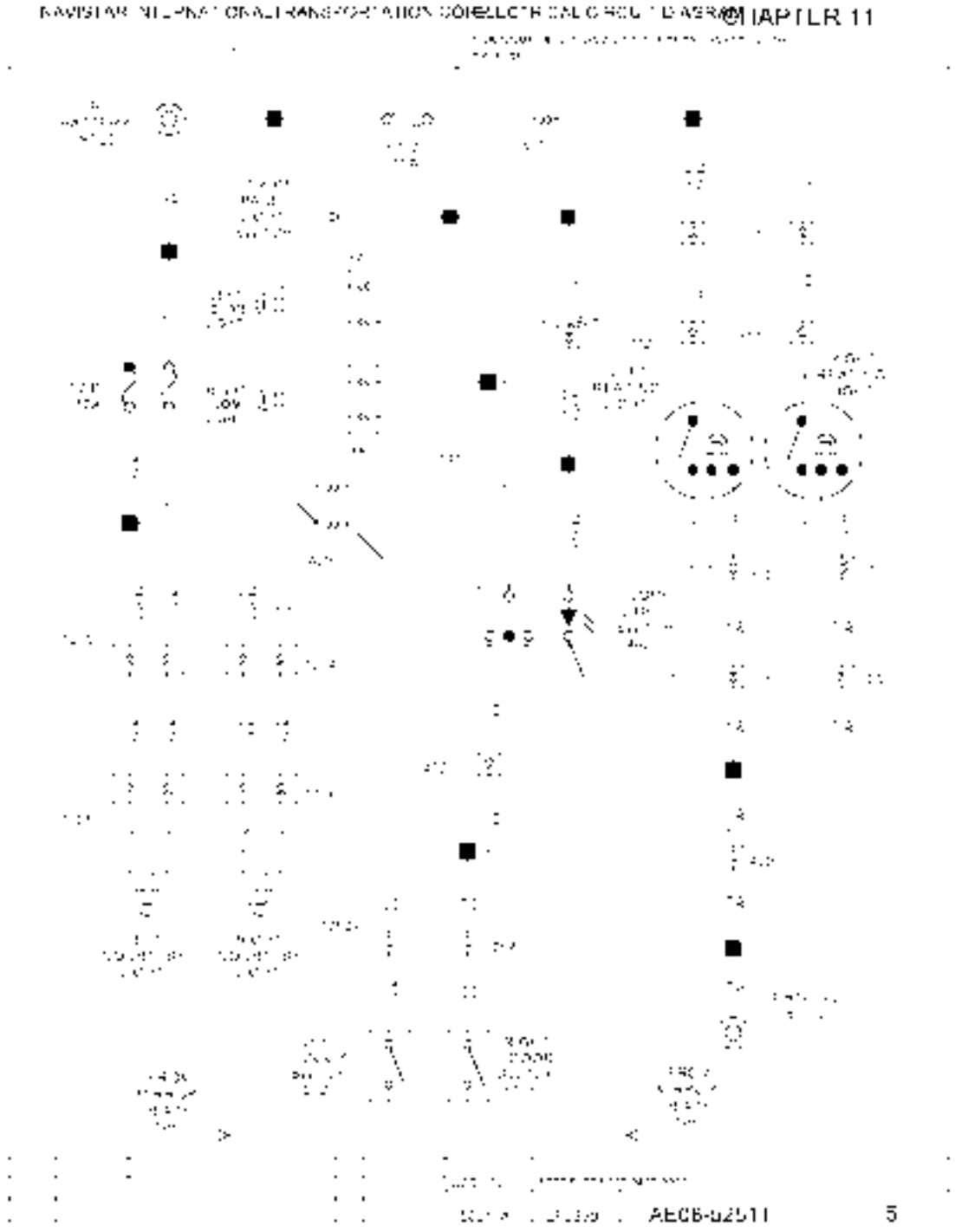

Figure 128 Cab Dome, Reading and Courtesy Lights W/Skyrise

11.7. DAYTIME RUNNING LIGHTS (DRL) — USA, P. 7

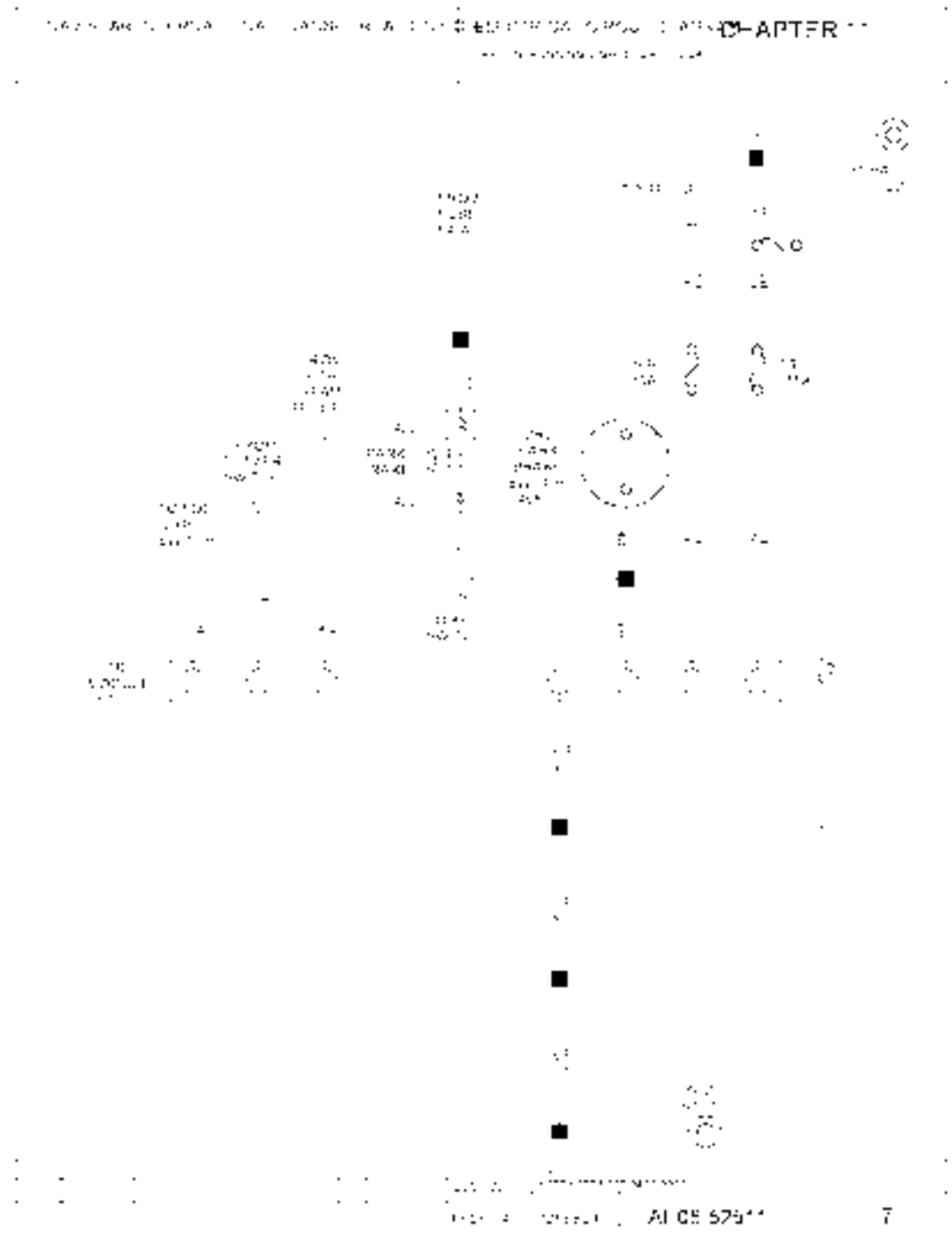

Figure 129 Daytime Running Lights (DRL) — USA

11.8. FOGLIGHTS — CAB/FRONT END EFFECTS, P. 8

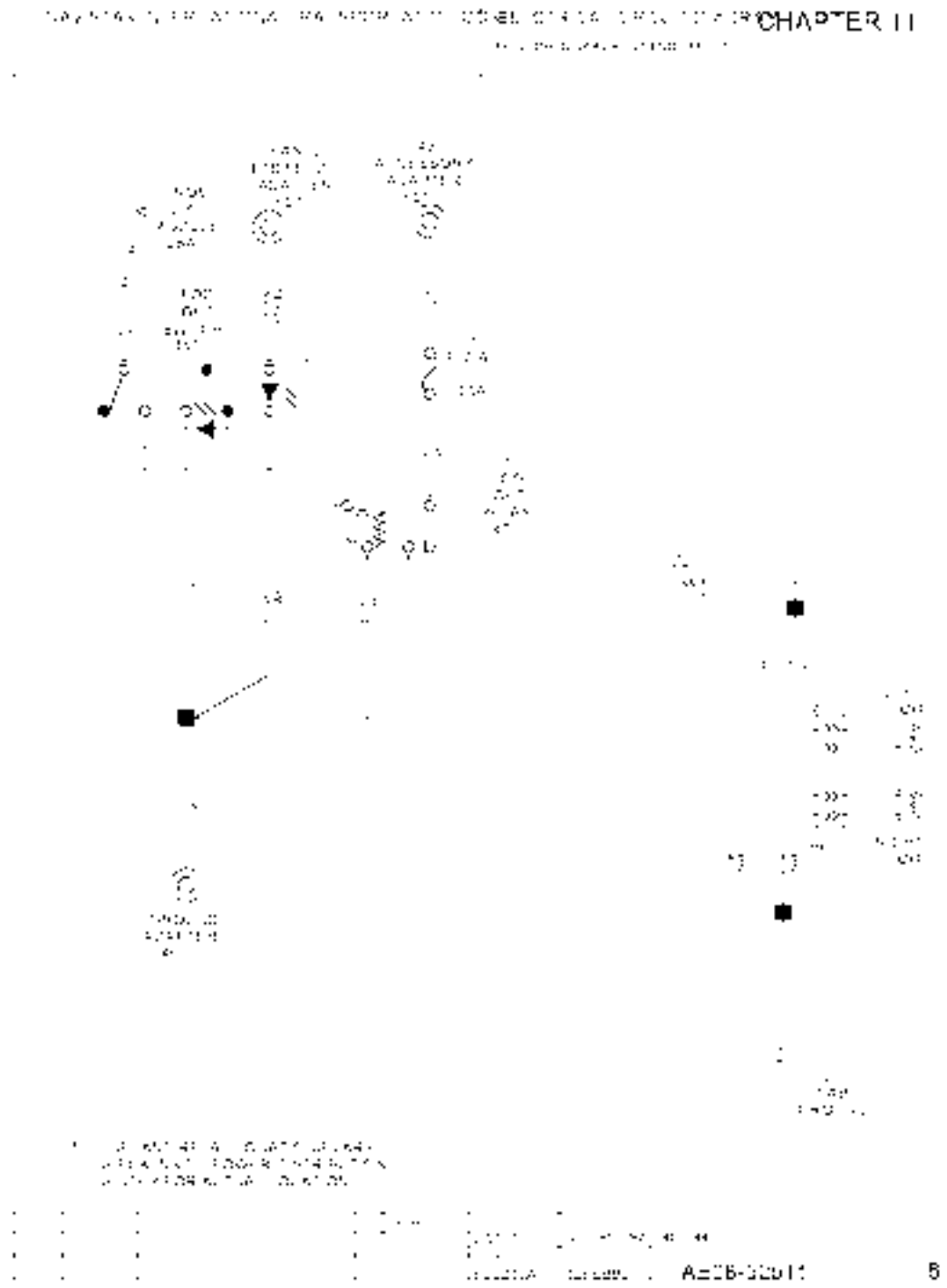

Figure 130 Foglights — Cab/Front End Effects

11.9. HEADLIGHT SWITCH AND DIMMER SWITCH WIRING, P. 9

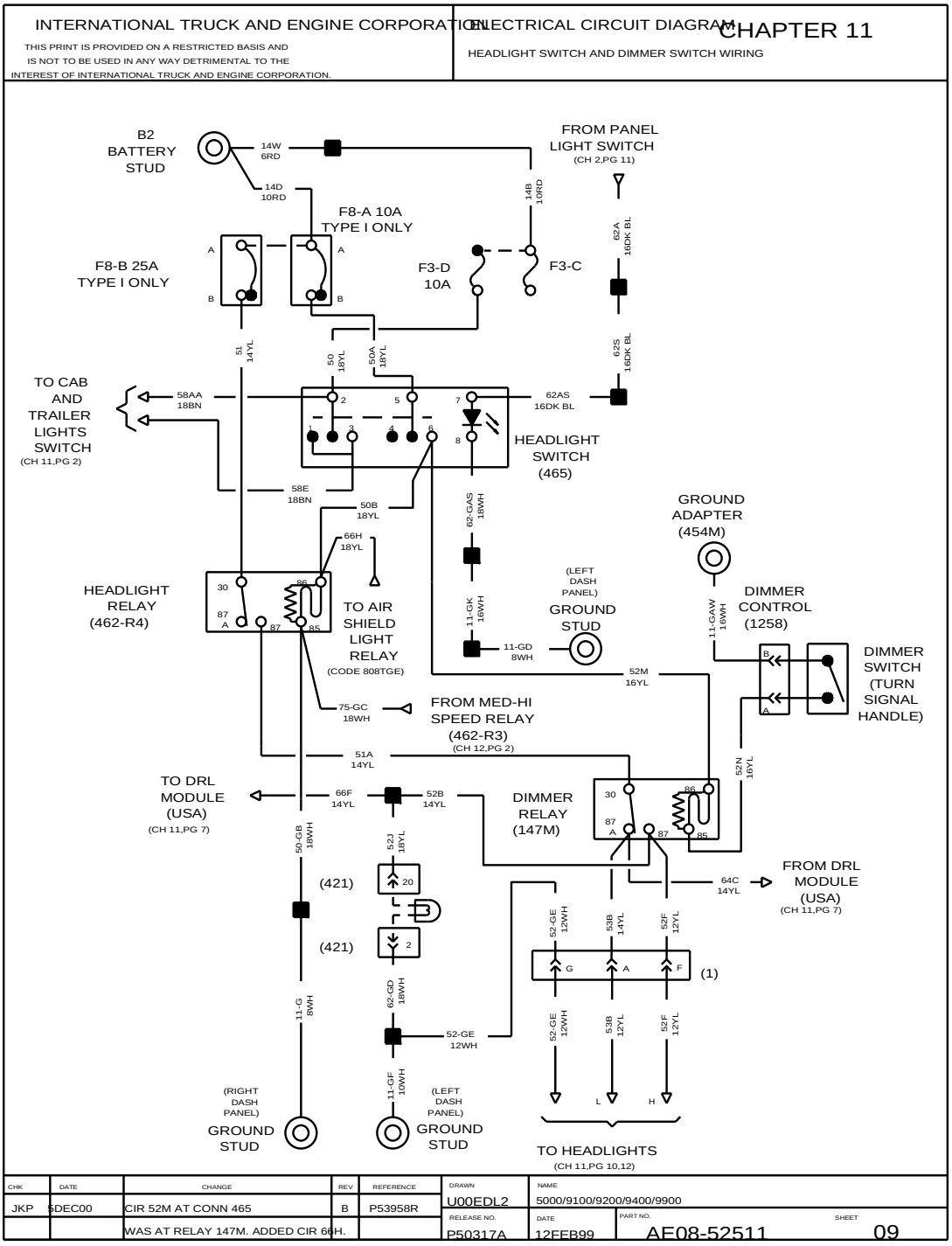

Figure 131 Headlight Switch and Dimmer Switch Wiring

11.10. HEADLIGHTS, P. 10

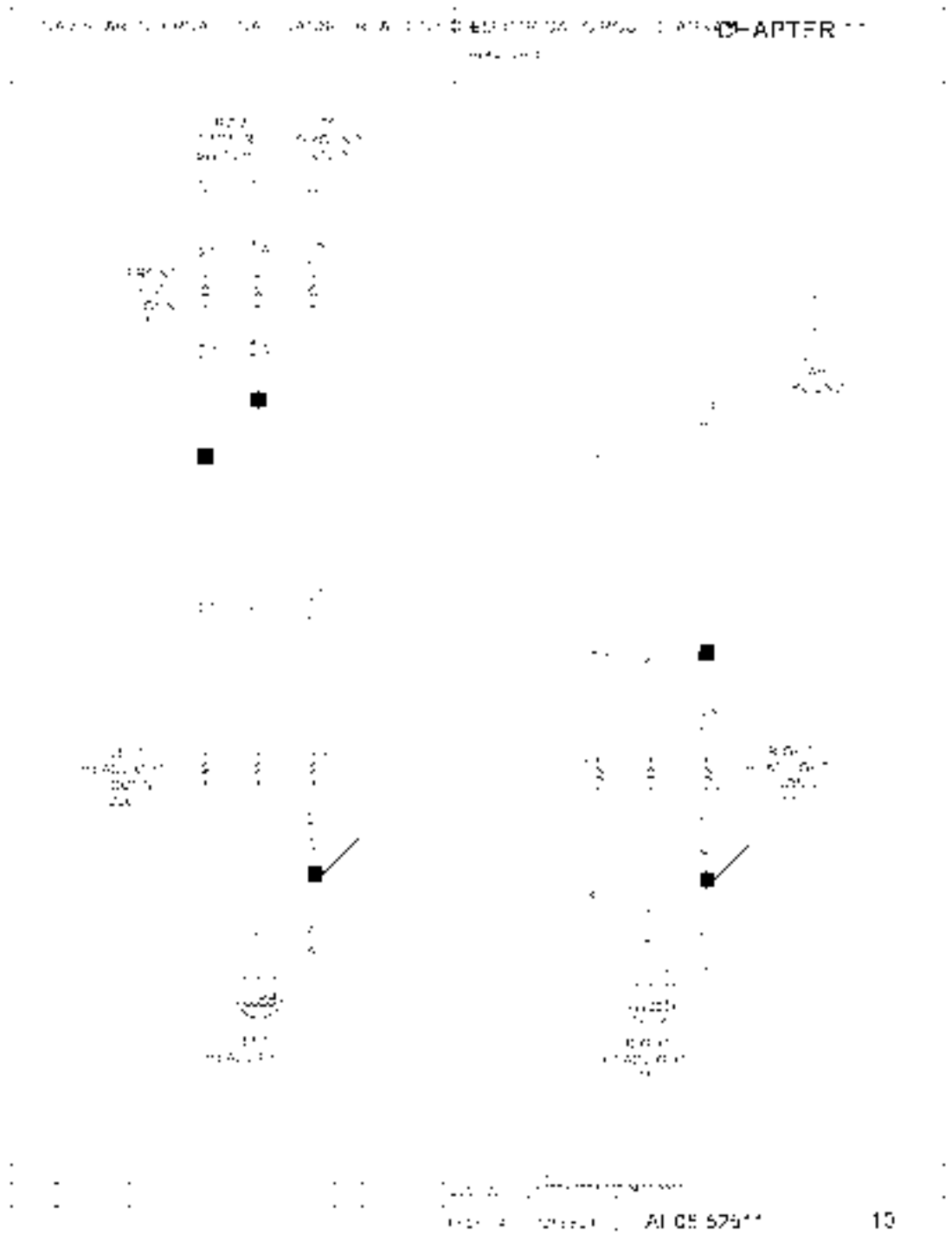

Figure 132 Headlights

11.11. PANEL LIGHTS, P. 11

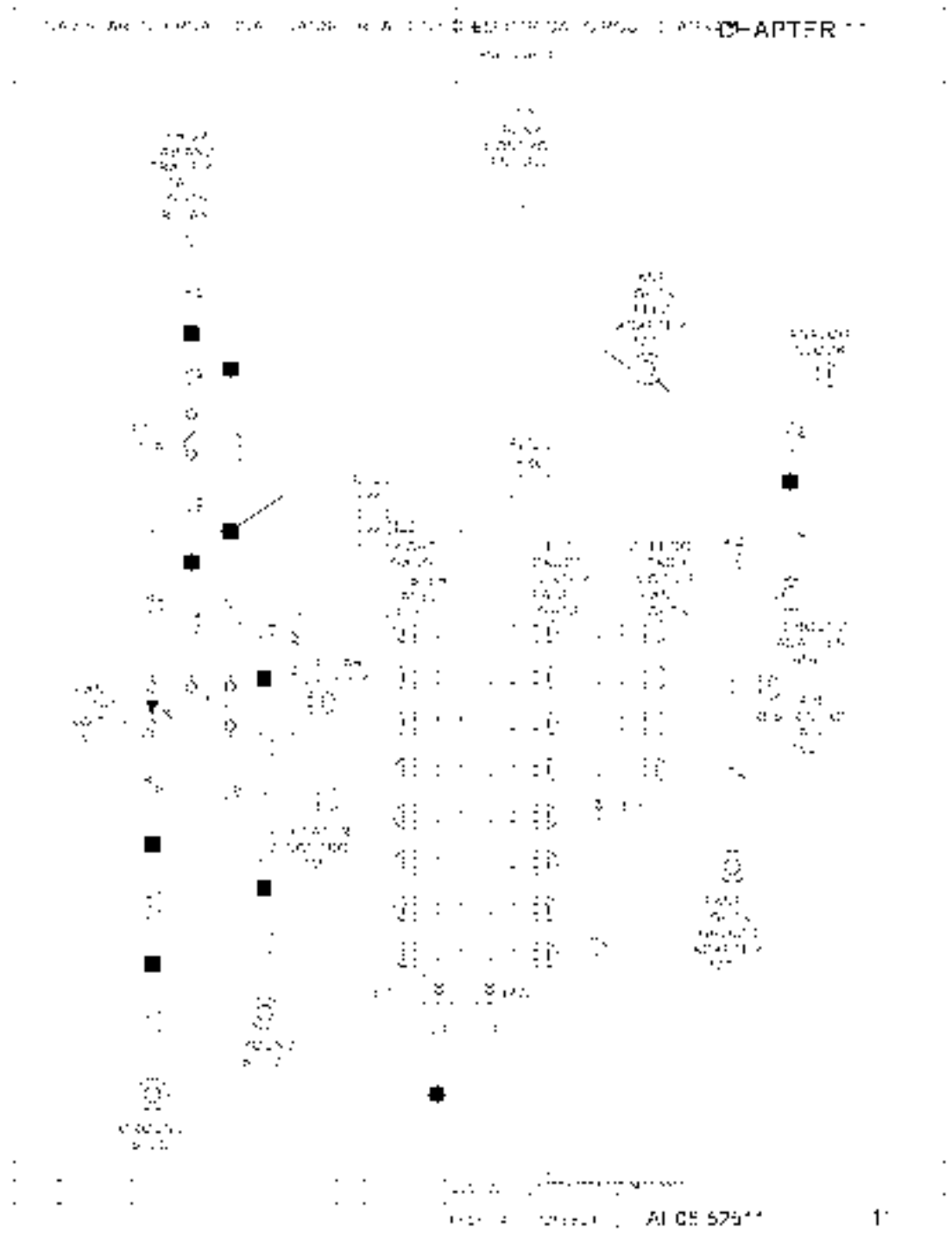

Figure 133 Panel Lights

11.12. PARK/TURN/SIDE MARKER LIGHTS — WITH DRL, P. 12

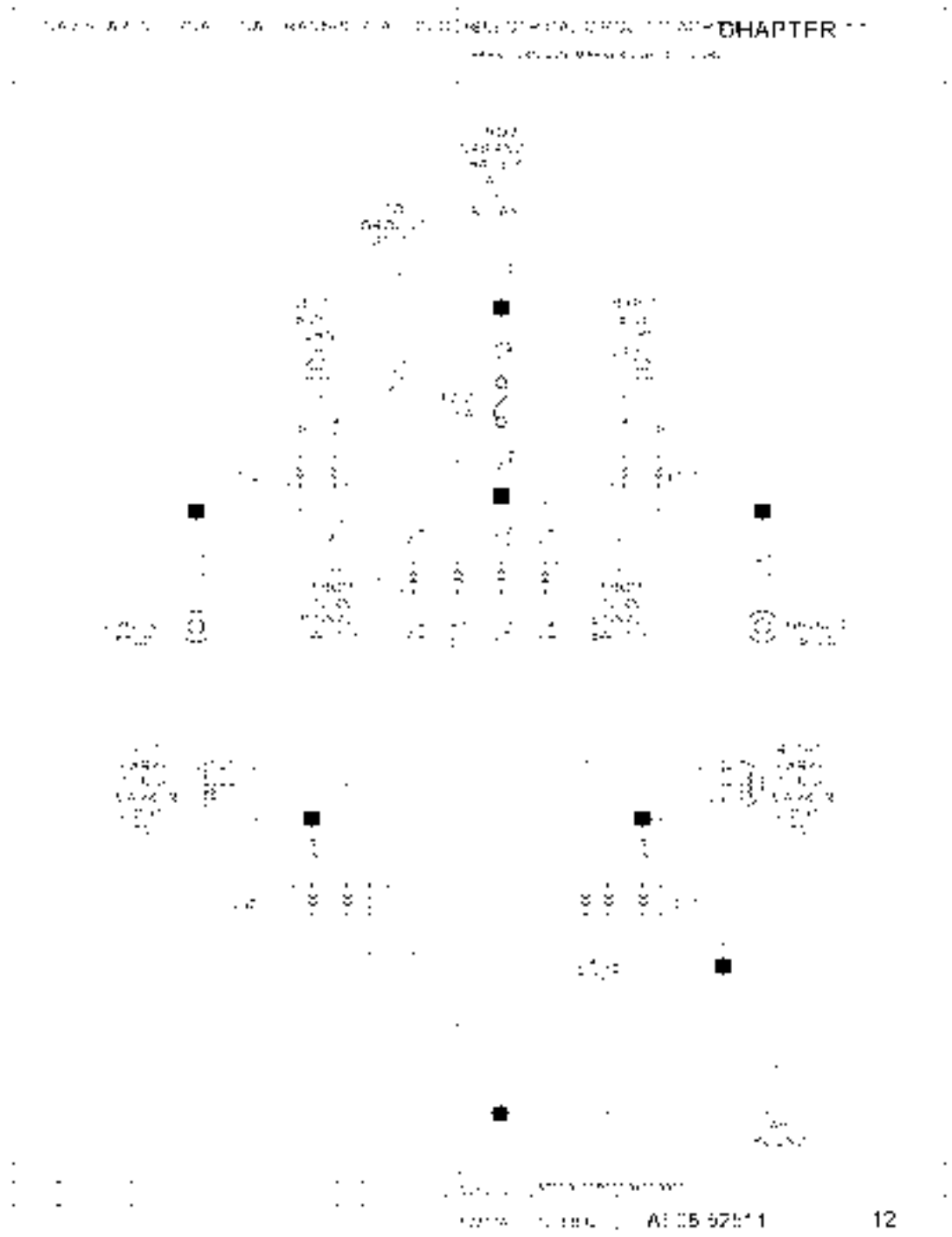

Figure 134 Park/Turn/Side Marker Lights — With DRL

11.13. SPOTLIGHT, P. 13

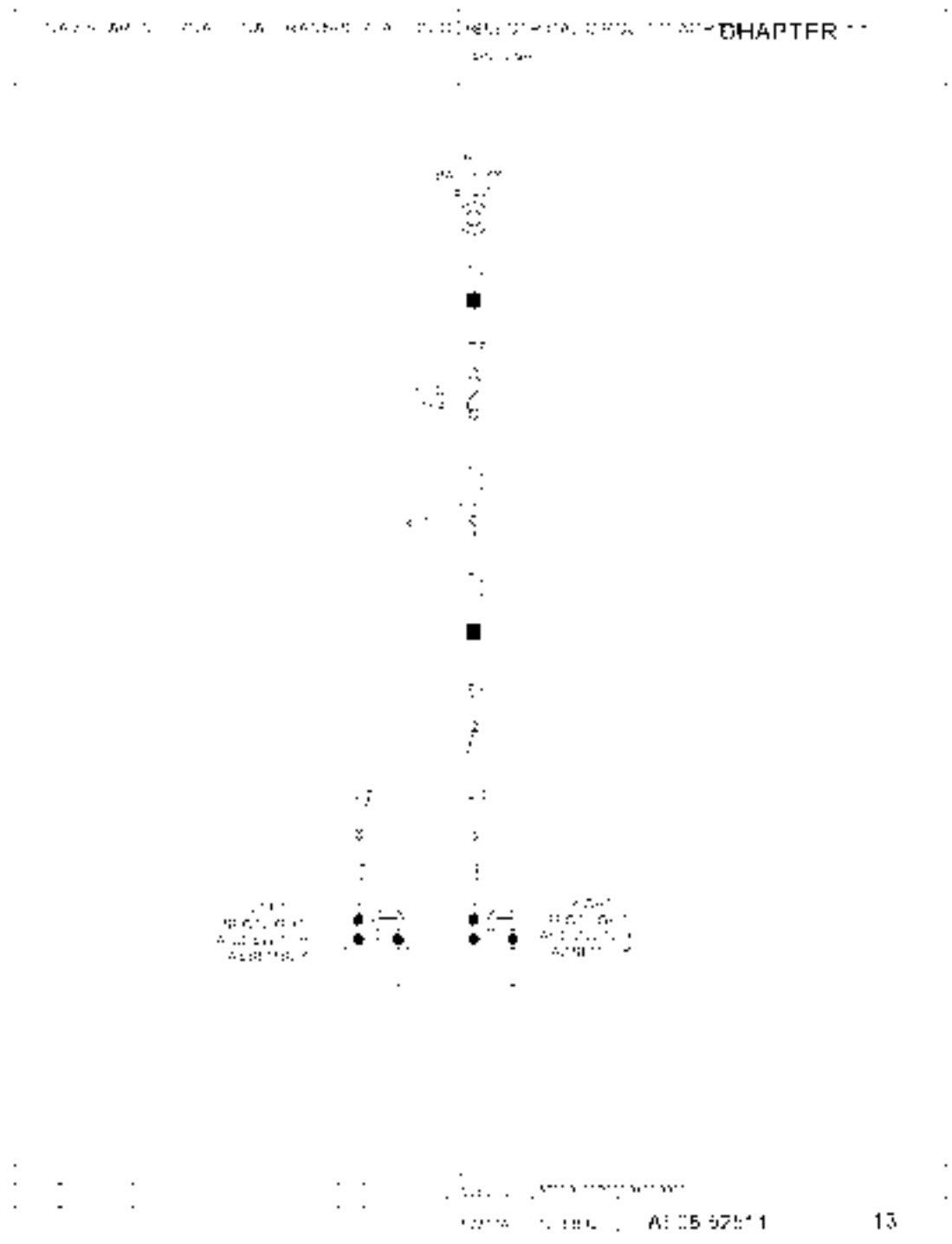

Figure 135 Spotlight

11.14. STOP, TAIL, TURN AND HAZARD SIGNAL LIGHTS WITH FLASHER, P. 14

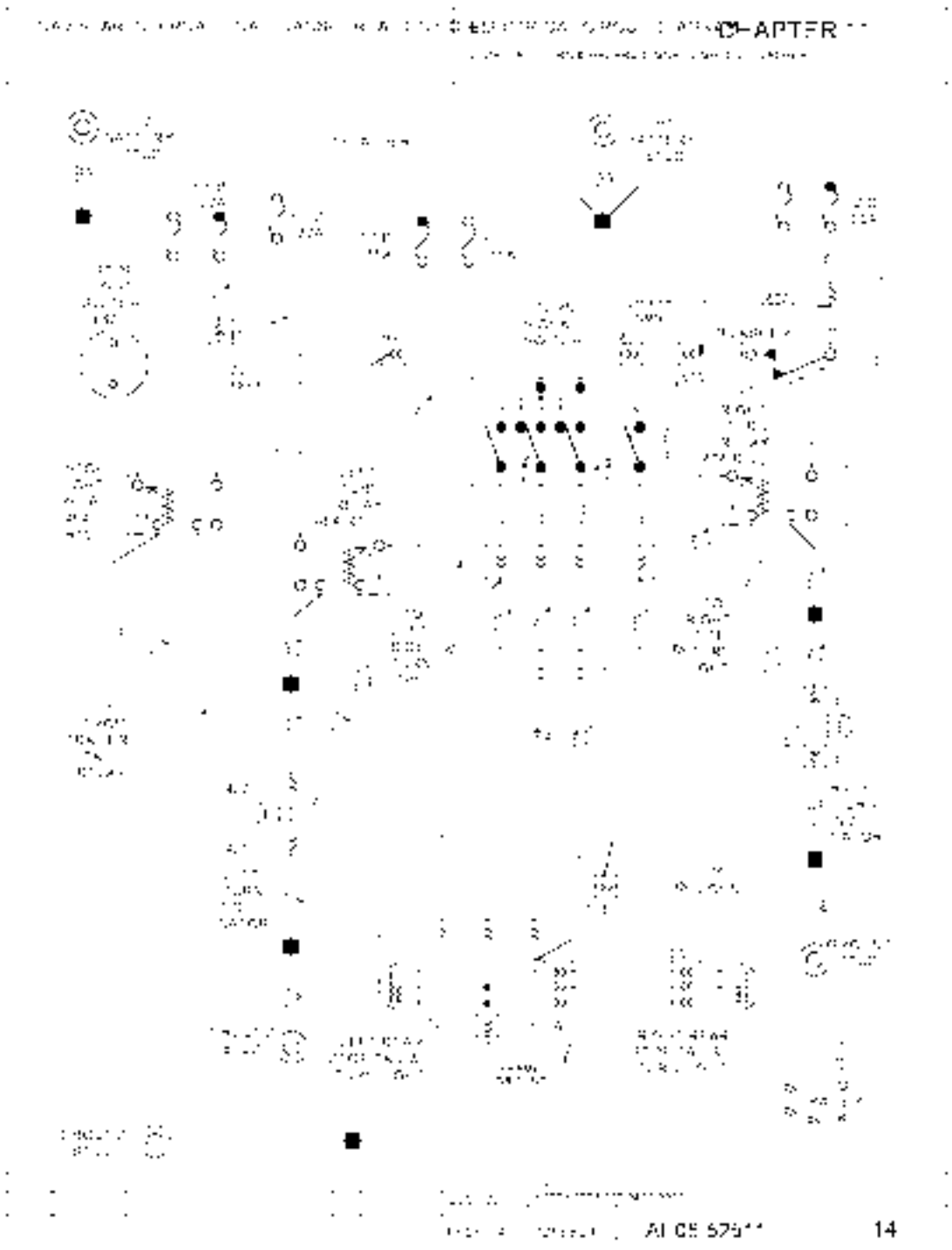

Figure 136 Stop, Tail, Turn and Hazard Signal Lights With Flasher

11.15. WORK LIGHT W/SLEEPER, P. 15

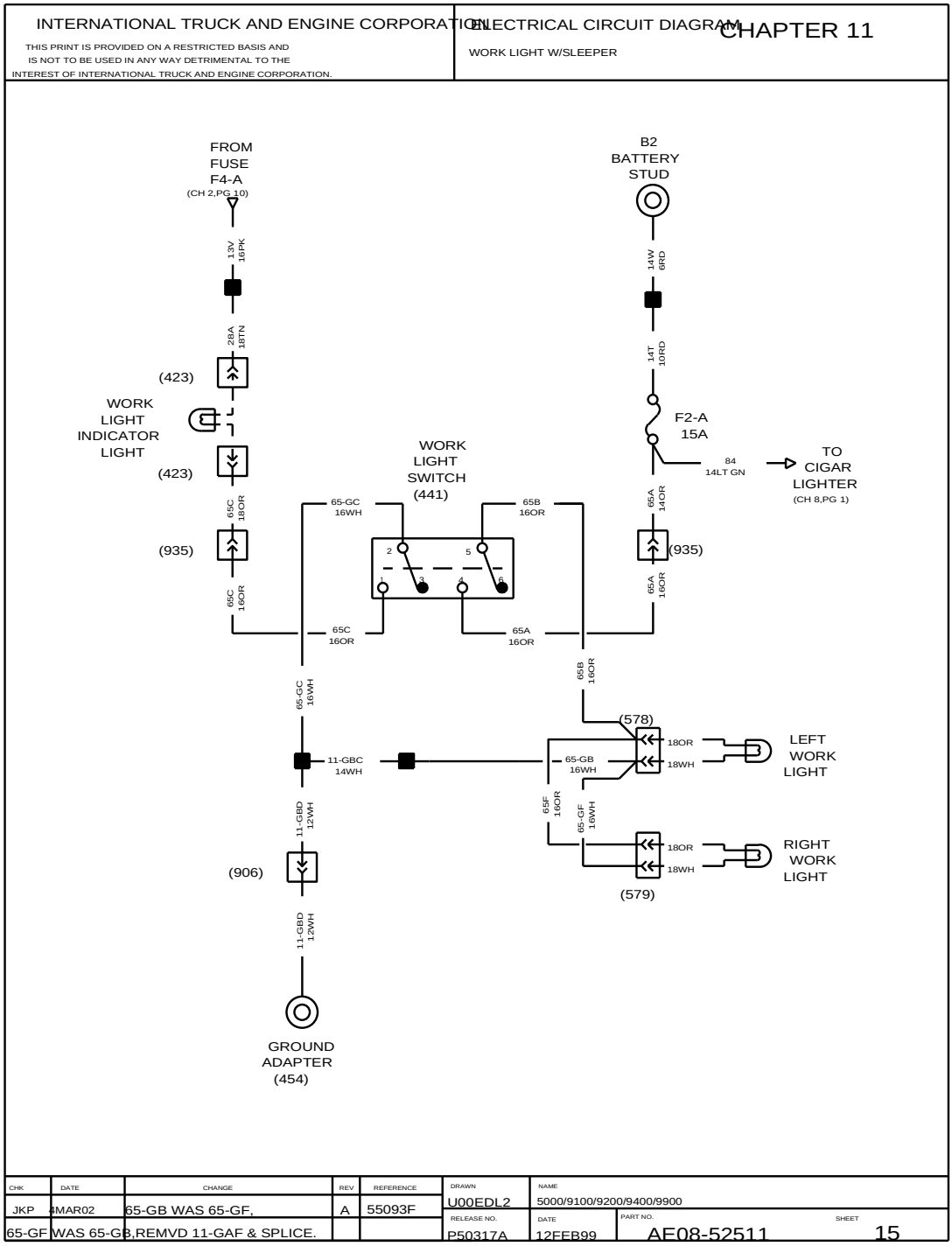

Figure 137 Work Light W/Sleeper

12. HEATER AND AIR CONDITIONER (CHAPTER 12)

12.1. AIR CONDITIONER — CAB, P. 1

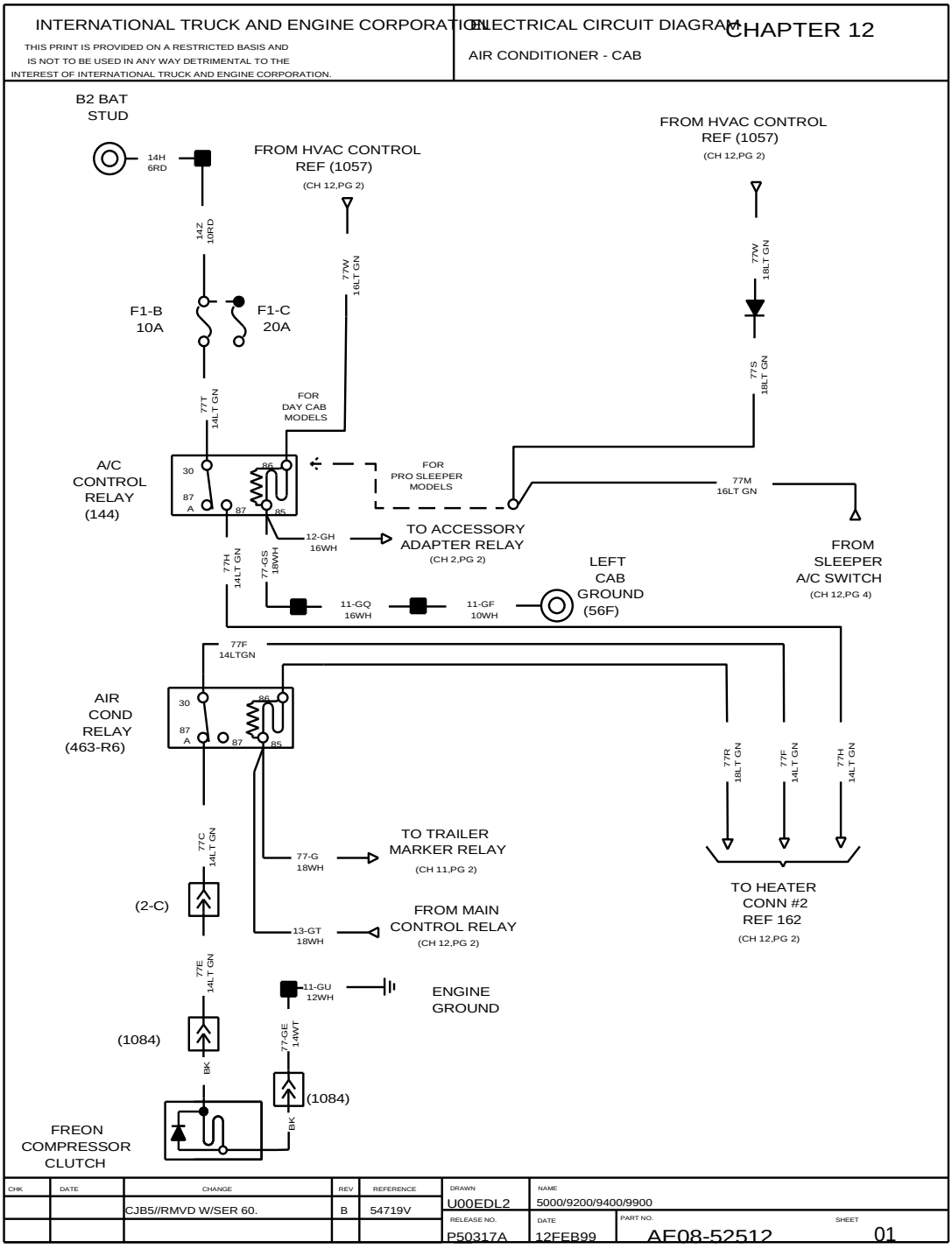

Figure 138 Air Conditioner — Cab

12.2. HEATER — CAB, P. 2

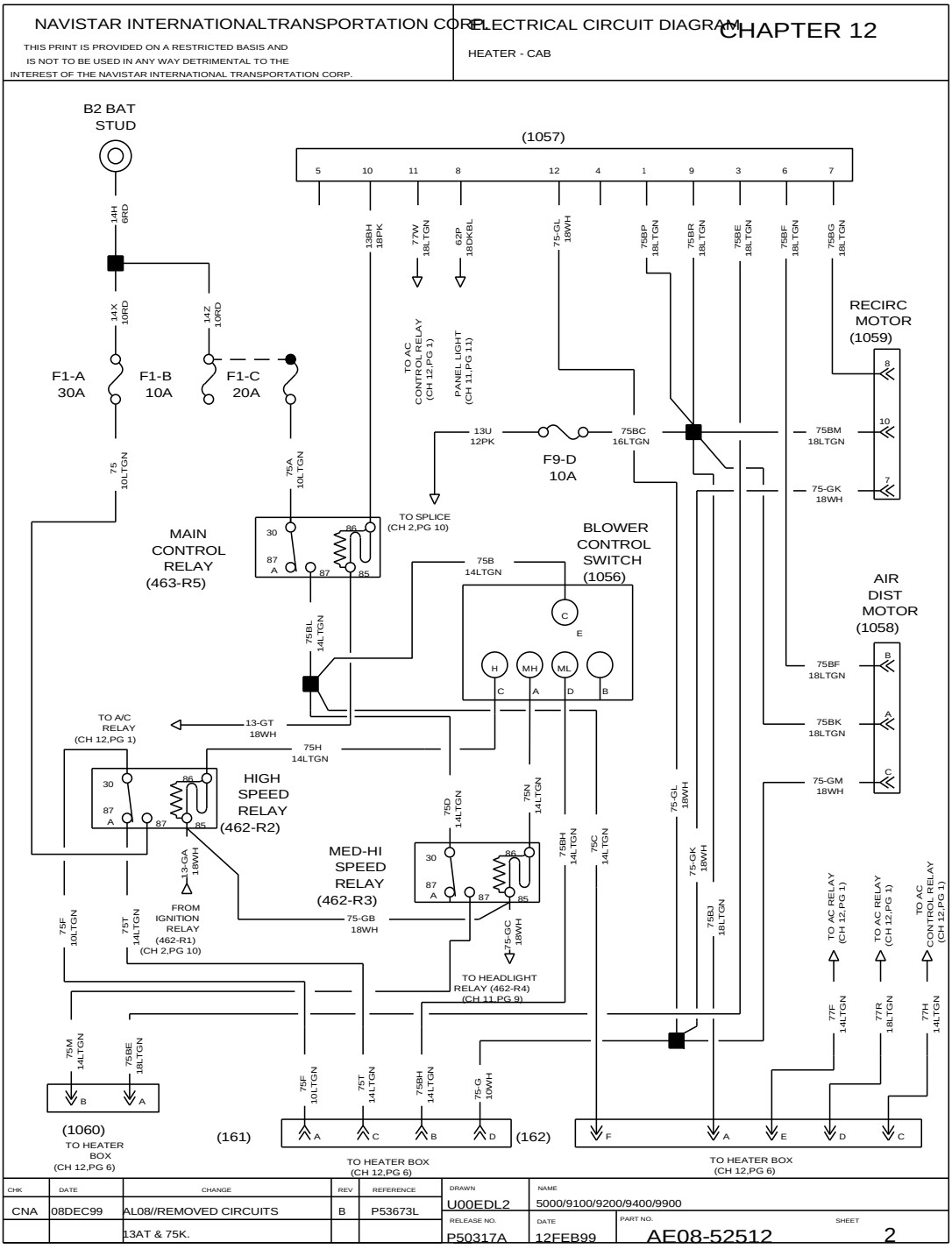

Figure 139 Heater — Cab

12.3. HEATER — BUNK AUXILIARY BLOWER, P. 3

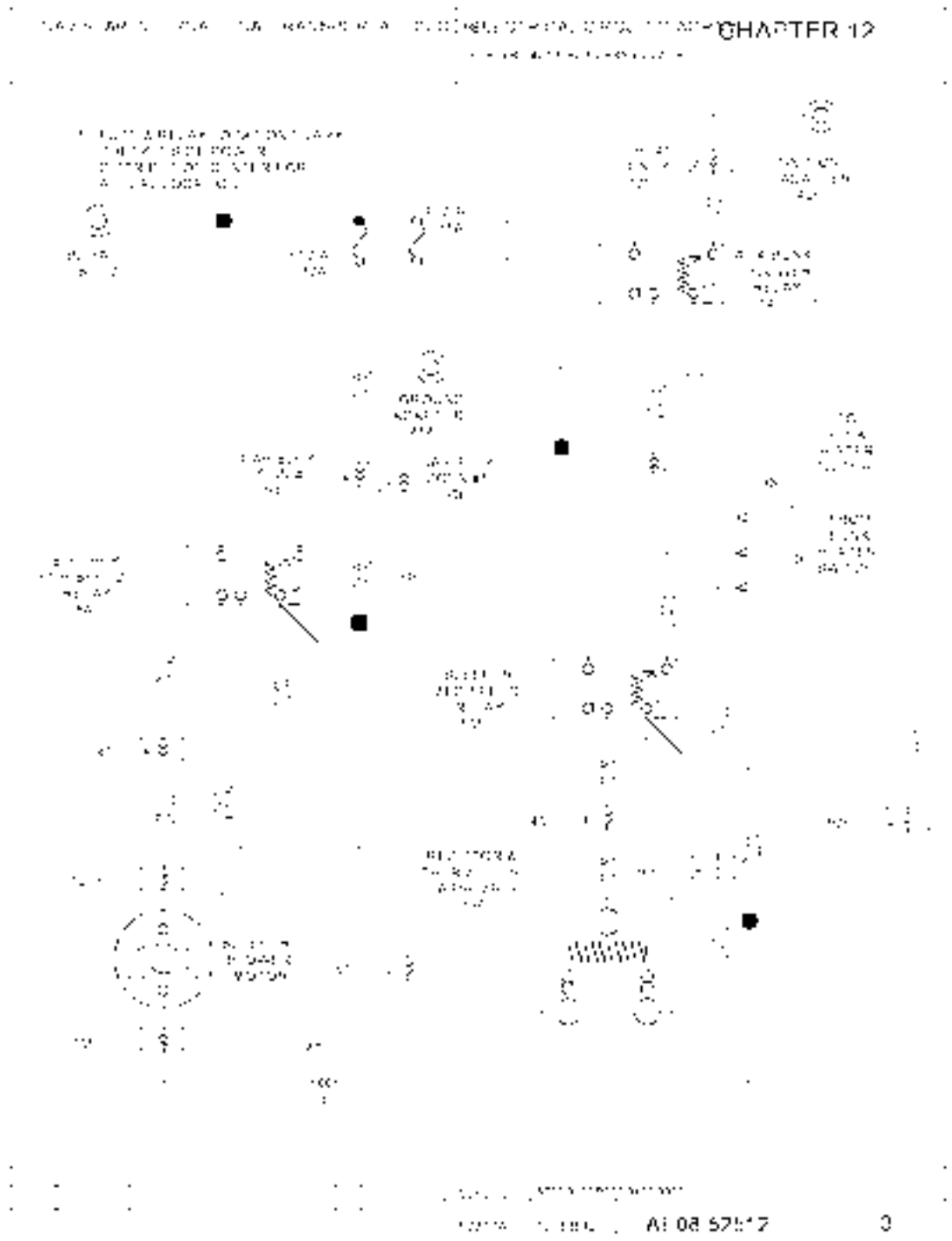

Figure 140 Heater — Bunk Auxiliary Blower

12.4. HEATER — BUNK W/STANDARD TEMPERATURE CONTROL, P. 4

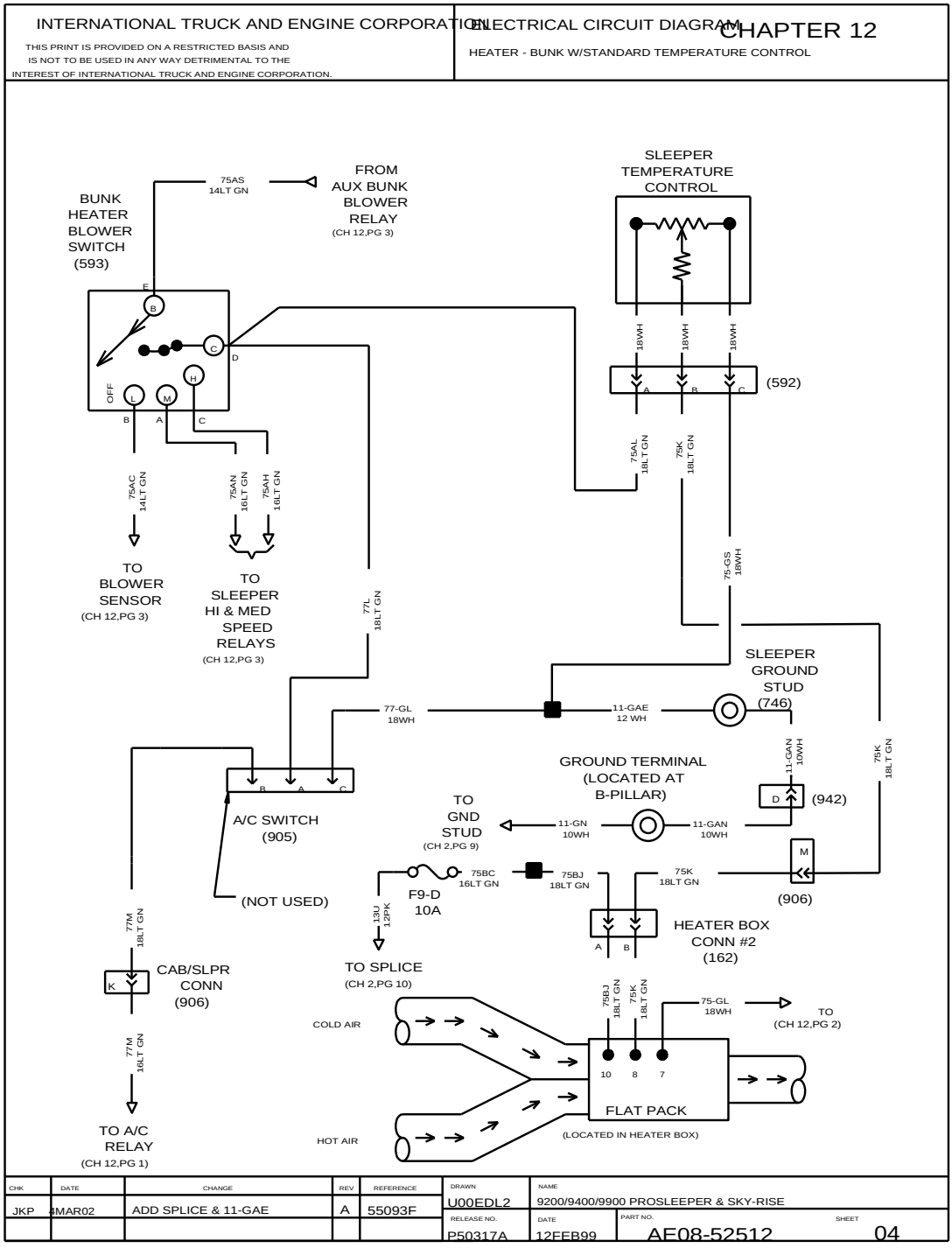

Figure 141 Heater — Bunk W/Standard Temperature Control

12.5. HEATER — BUNK W/THERMOSTAT TEMPERATURE CONTROL, P. 5

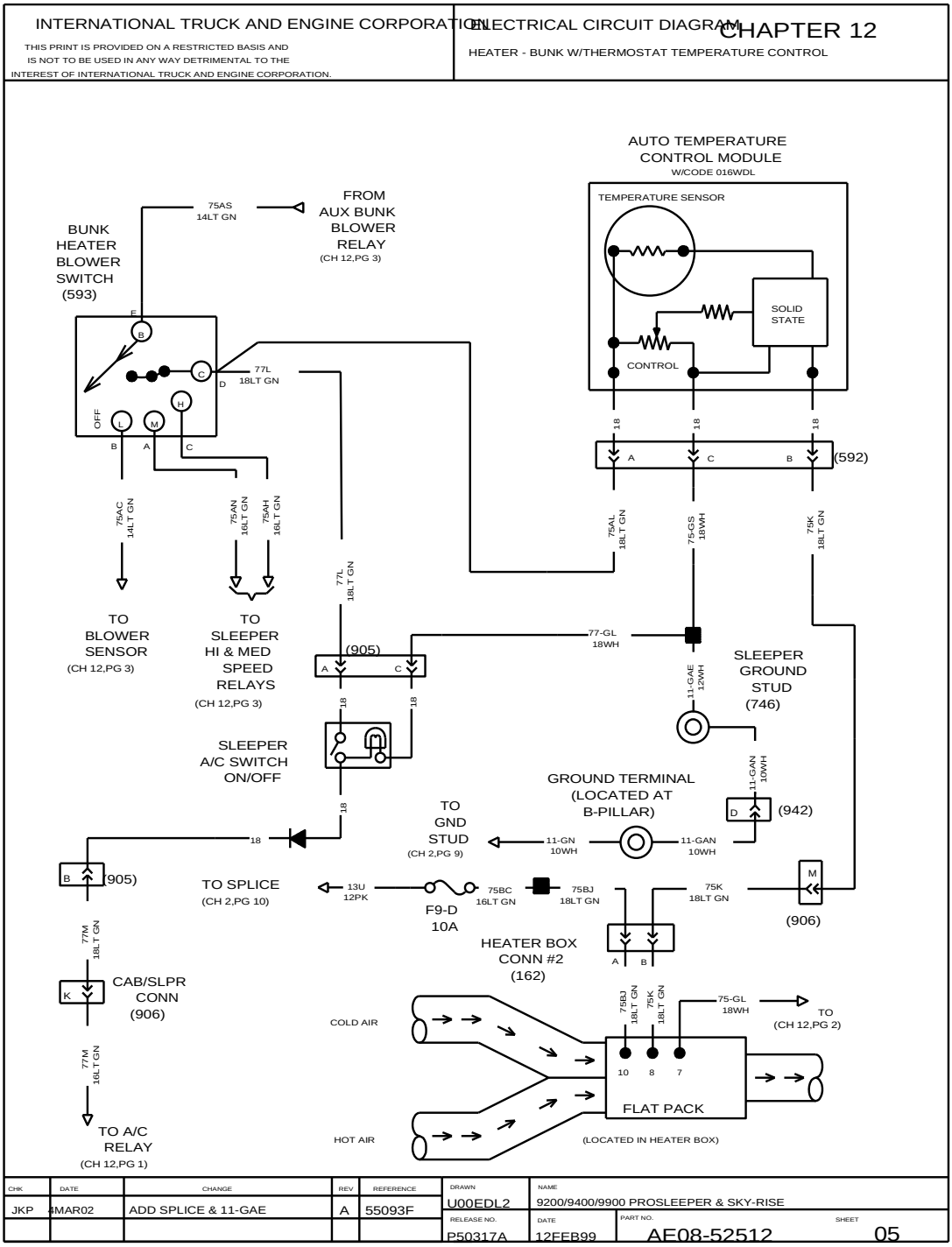

Figure 142 Heater — Bunk W/Thermostat Temperature Control

12.6. LOWERED HEATER BOX, P. 6

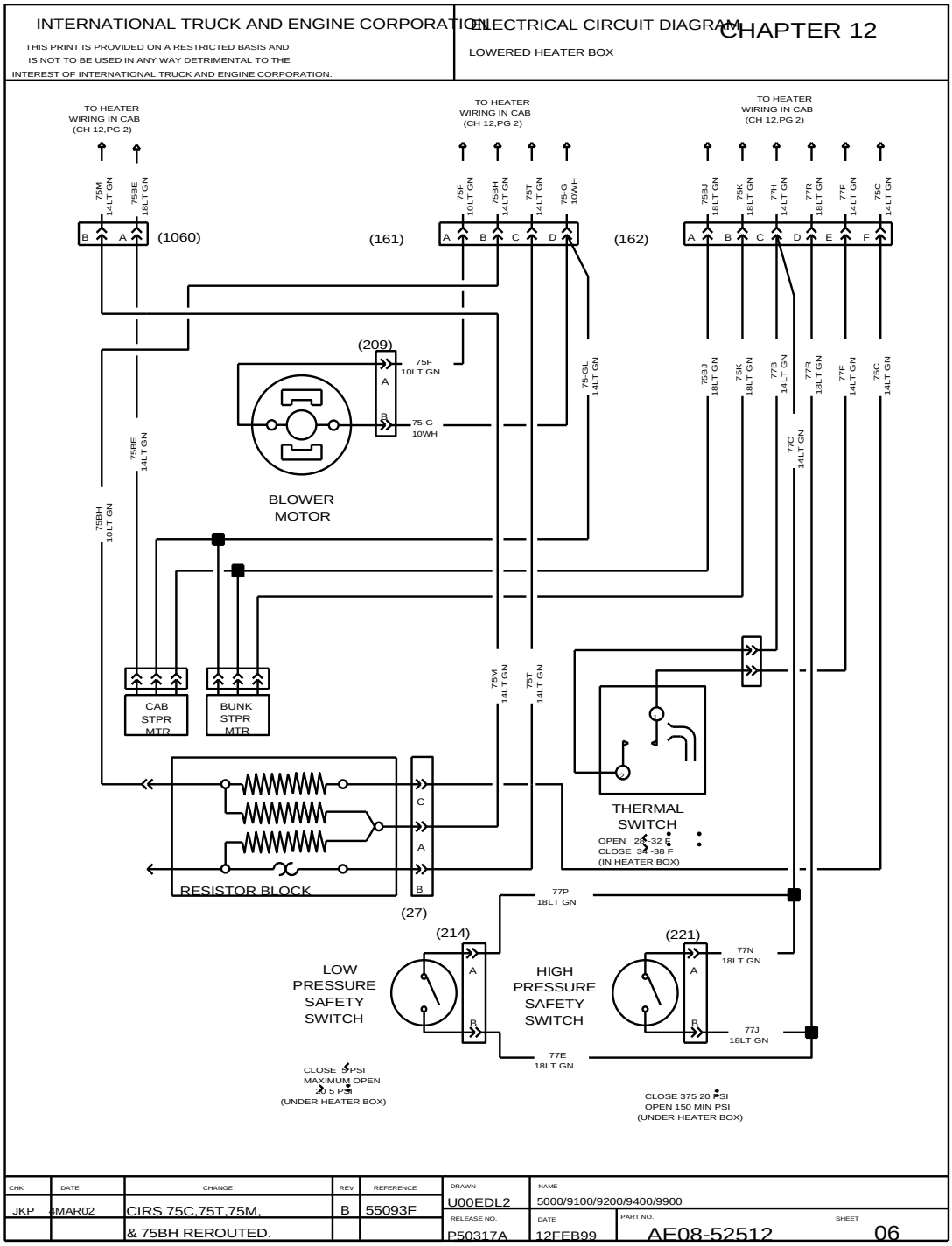

Figure 143 Lowered Heater Box

12.7. AUX HEATER, P. 7

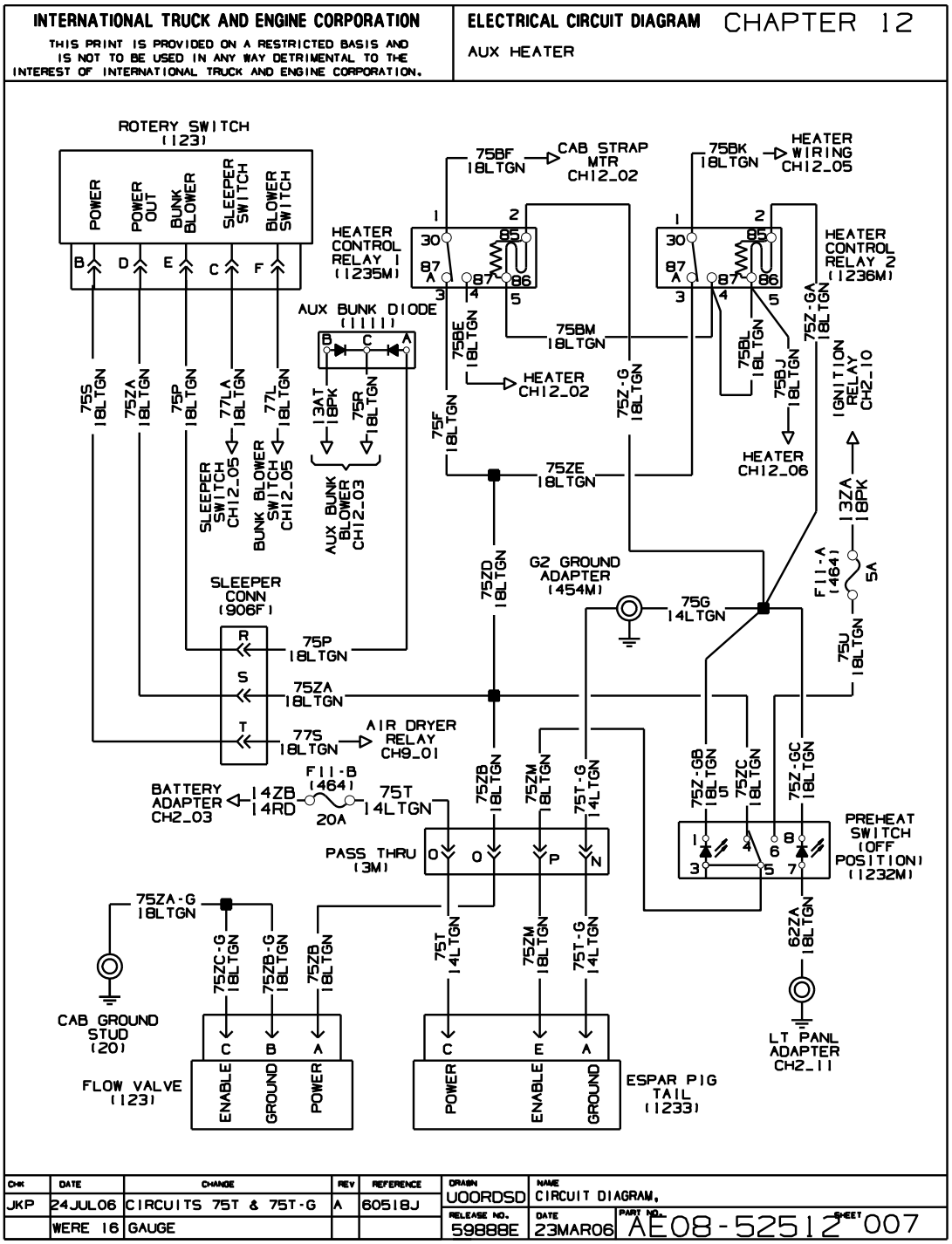

Figure 144 Aux Heater

12.8. APU SYSTEM: DISTRIBUTION BOX, P. 8

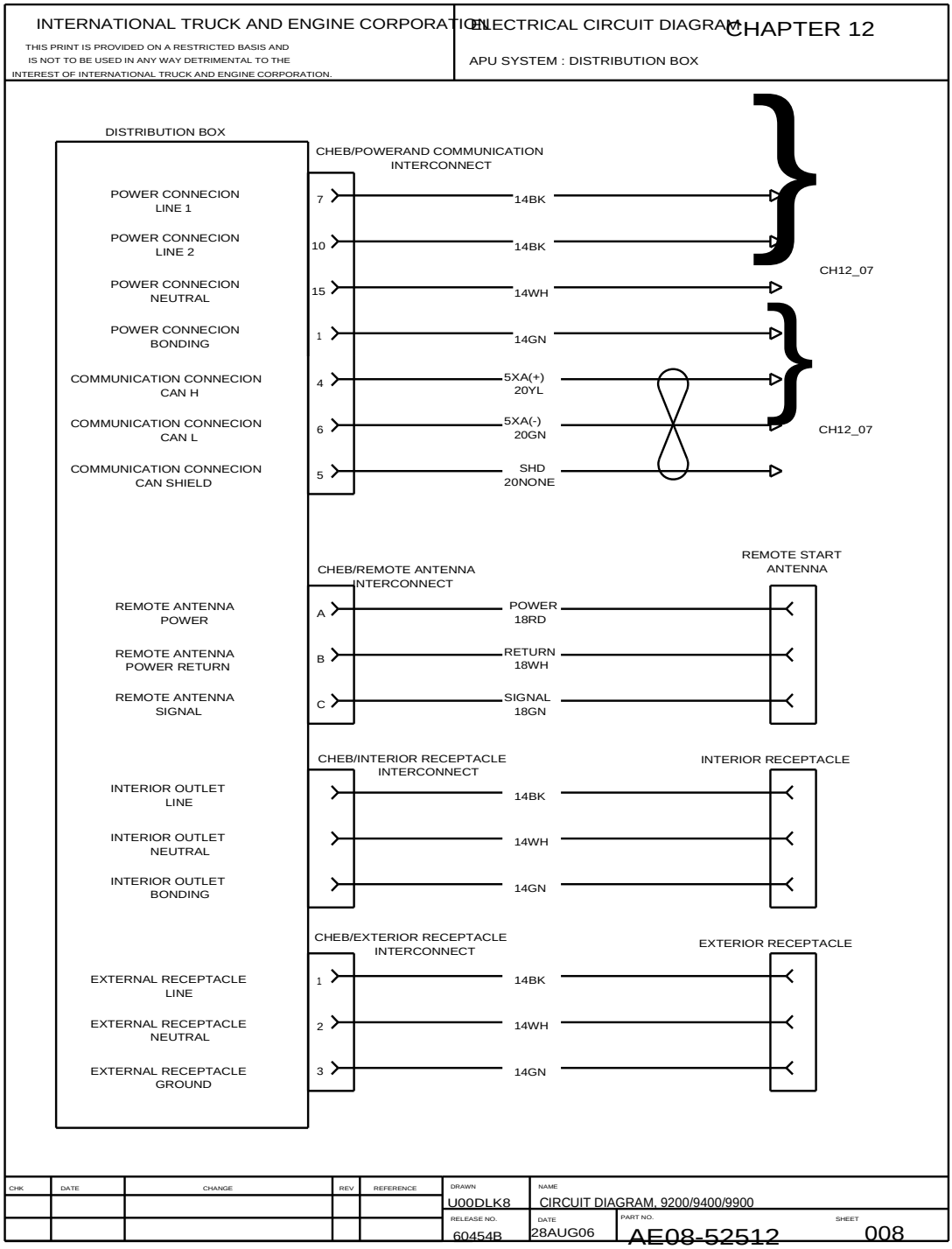

Figure 145 APU System: Distribution Box

12.9. APU SYSTEM: DISTRIBUTION BOX, P. 9

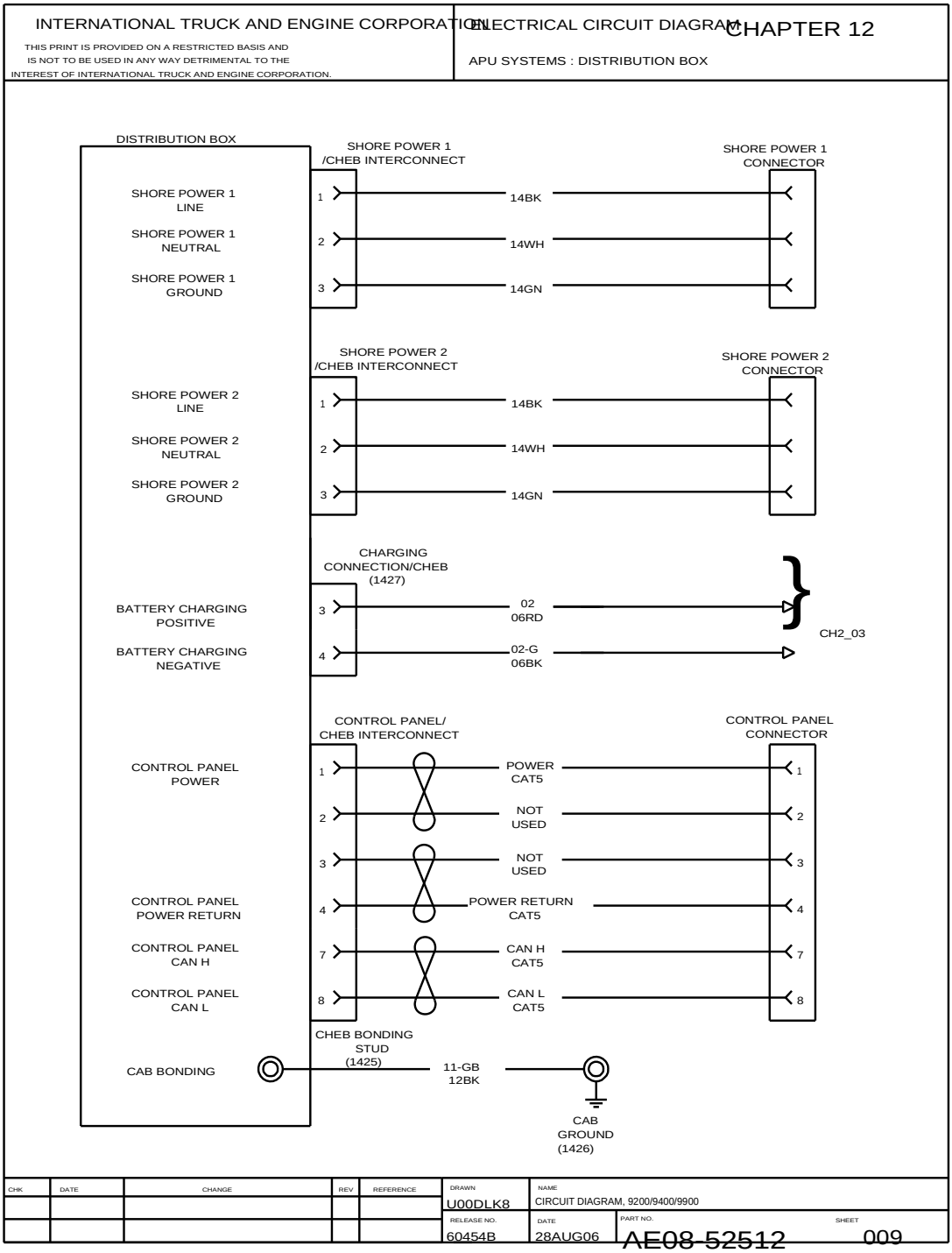

Figure 146 APU System: Distribution Box

12.10. APU SYSTEM, P. 10

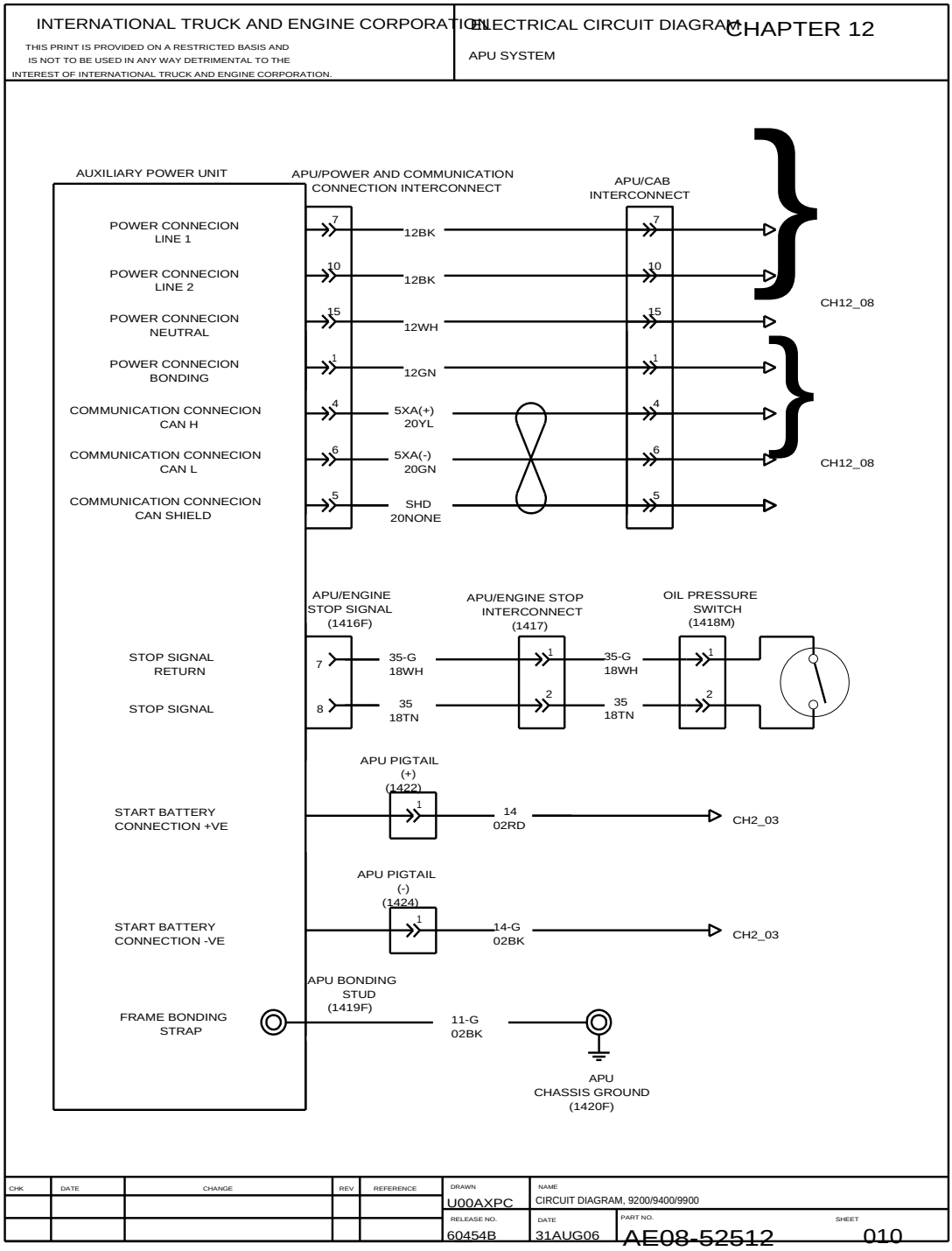

Figure 147 APU System

13. CONNECTOR COMPOSITES (CHAPTER 13)

13.1. LEFT GAUGE CLUSTER (CONNECTOR 423), P. 1

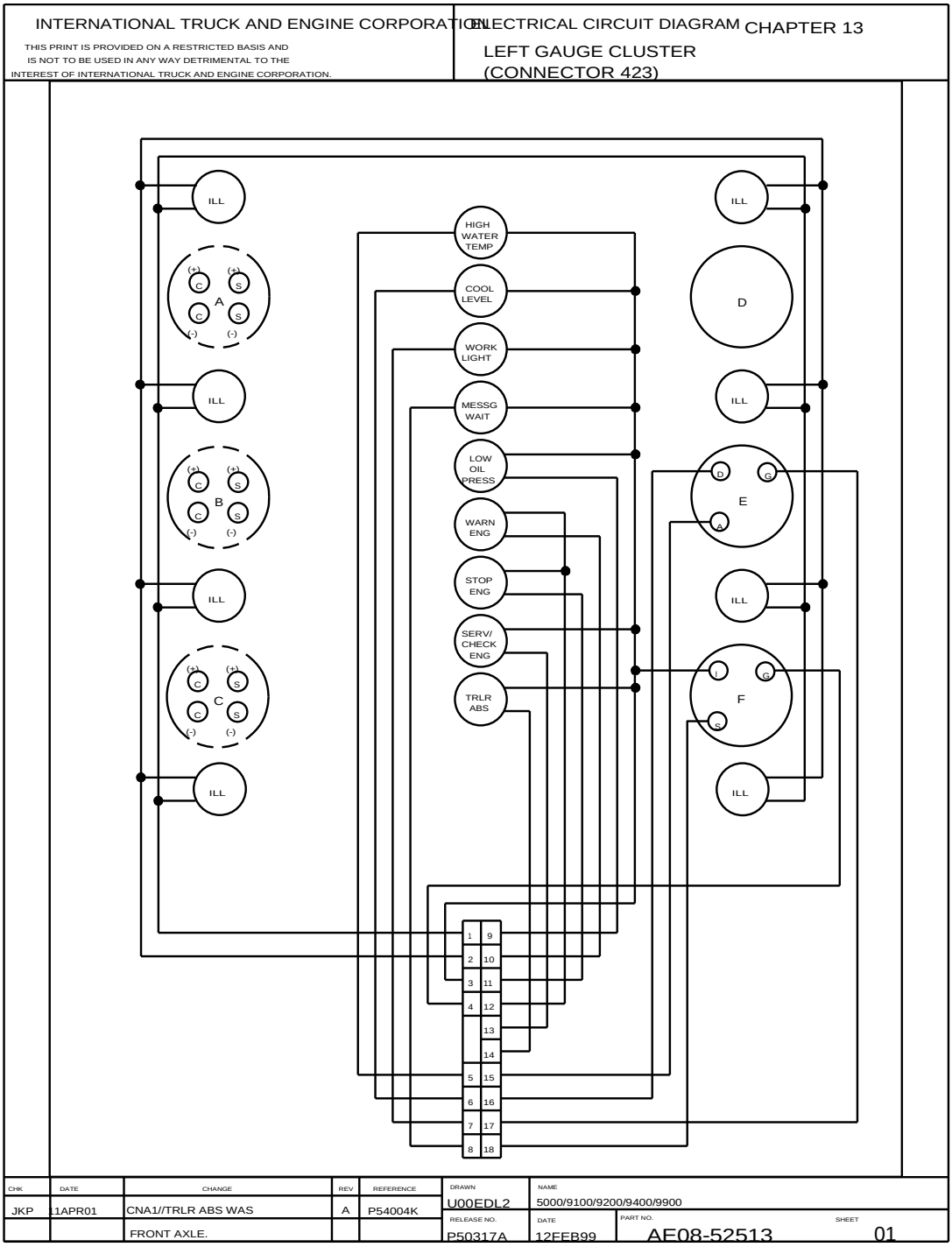

Figure 148 Left Gauge Cluster (Connector 423)

13.2. LEFT GAUGE CLUSTER (CONNECTOR 424), P. 2

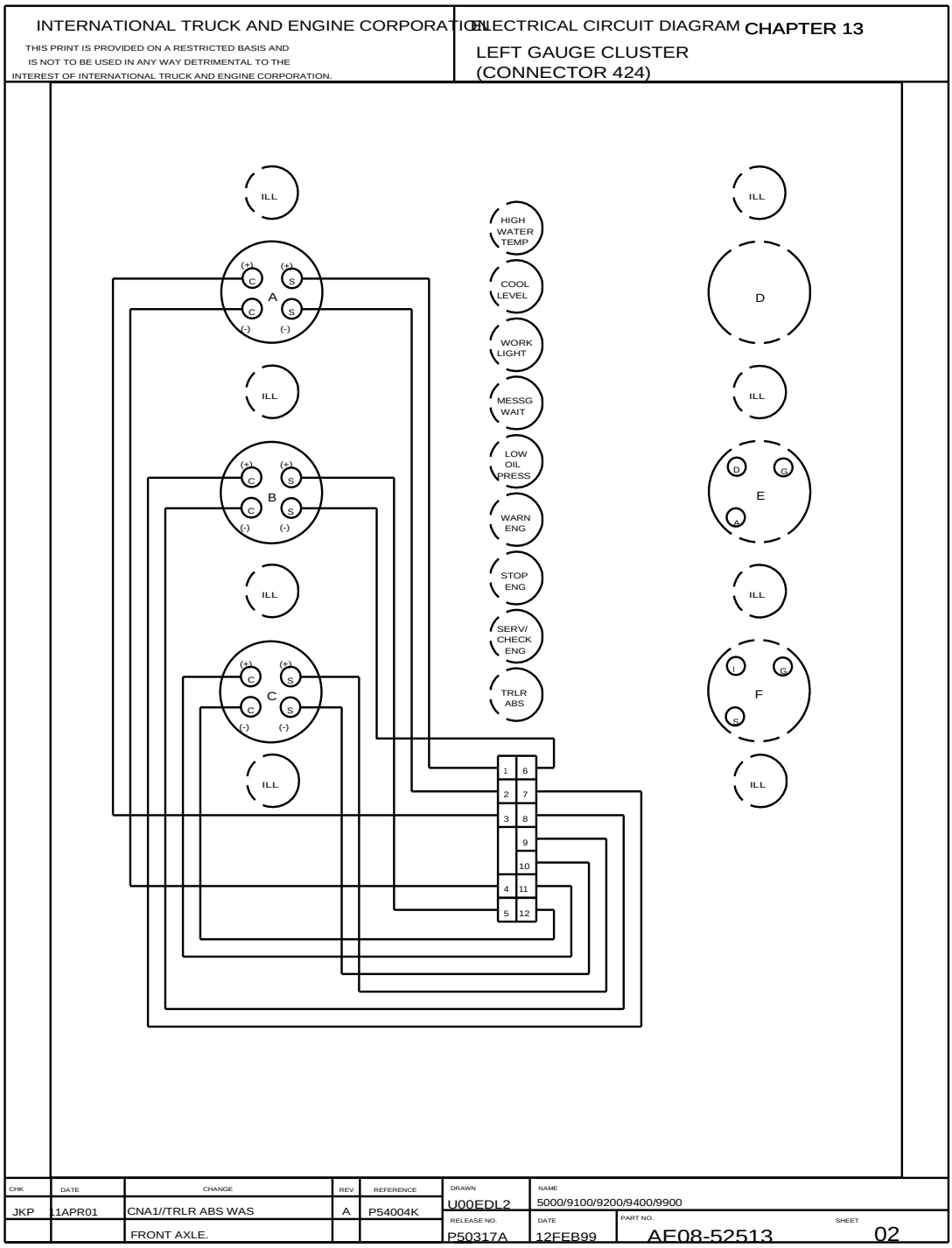

Figure 149 Left Gauge Cluster (Connector 424)

13.3. LEFT GAUGE CLUSTER — GAUGE INFORMATION, P. 3

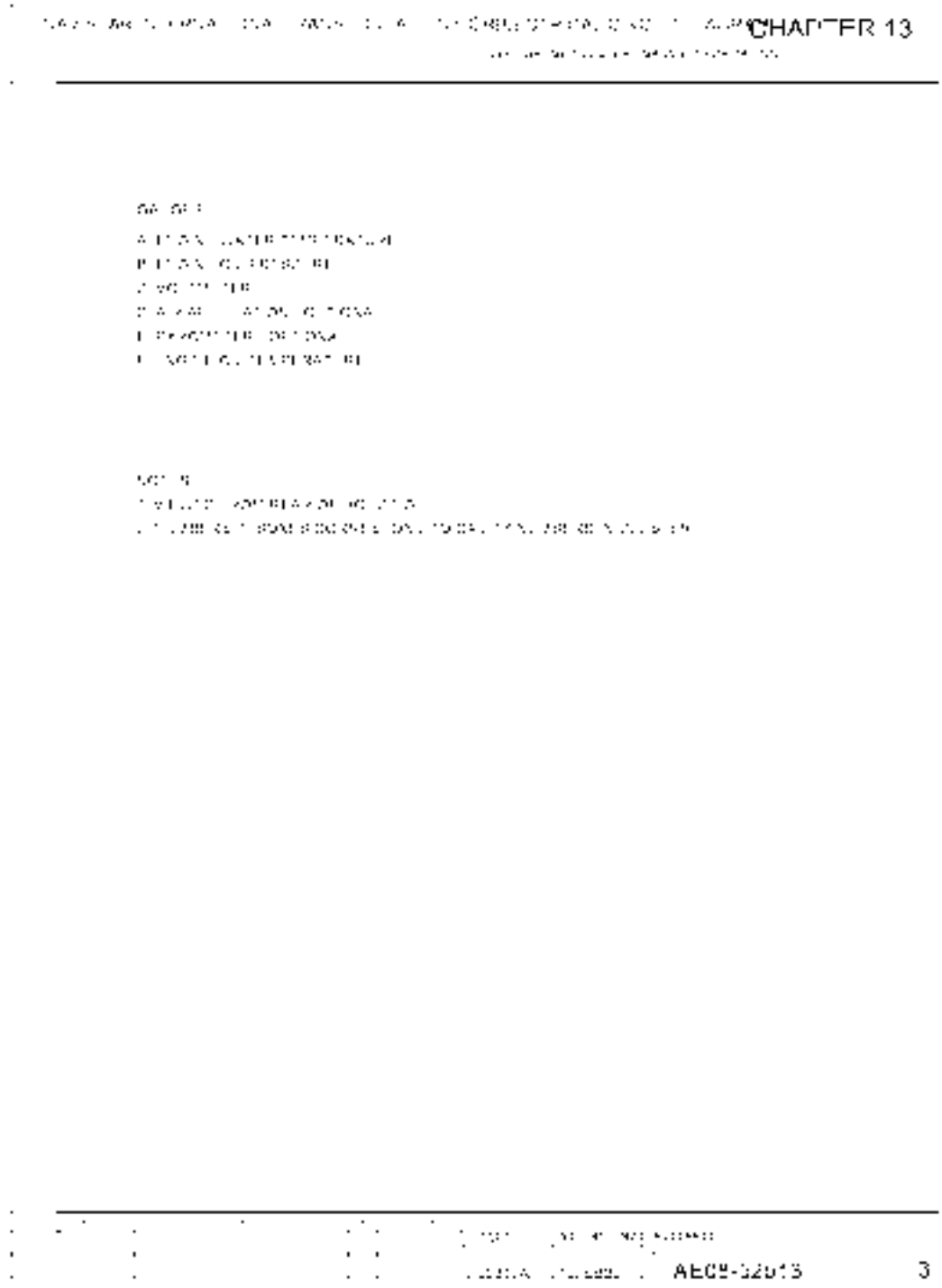

Figure 150 Left Gauge Cluster — Gauge Information

13.4. LEFT GAUGE CLUSTER — TERMINAL INFORMATION, P. 4

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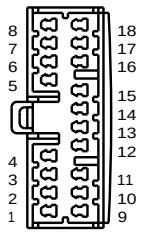
ELECTRICAL CIRCUIT DIAGRAM CHAPTER 13

LEFT GAUGE CLUSTER -
TERMINAL INFORMATION



(423)
(SEE NOTE 1)

CONNECTOR 423			
CAVITY	CIRCUIT NO.	CAVITY	CIRCUIT NO.
1	62C	10	97AT
2	62-GC	11	97AP
3	28A	12	28D
4	11-GM	13	97AZ
5	29L	14	94T
6	34B	15	25A
7	65C	16	25B
8	---	17	25-GA
9	35L	18	30

TERMINALS

1. INSTRUMENT LAMP POWER (+)
2. INSTRUMENT LAMP GROUND (-)
3. IGNITION (+)
4. GROUND (-)
5. HIGH WATER TEMPERATURE WARNING LIGHT (GROUND ACTIVE)
6. LOW COOLANT LEVEL WARNING LIGHT (GROUND ACTIVE) *
7. WORK LIGHT (GROUND ACTIVE) *
8. MESSAGE WAIT (GROUND ACTIVE) *
9. LOW OIL PRESSURE WARNING LIGHT (GROUND ACTIVE)
10. WARN ENGINE WARNING LIGHT W/ELECTRONIC ENGINES
11. STOP ENGINE WARNING LIGHT W/ELECTRONIC ENGINES
12. WARN & STOP ENGINE WARNING LIGHT (COMMON) W/ELECTRONIC ENGINES
13. CHECK ENGINE WARNING LIGHT (GROUND ACTIVE) W/ELECTRONIC ENGINES
14. TRAILER ABS WARNING LIGHT (GROUND ACTIVE)
15. PYROMETER AMPLIFIER (POWER) *
16. PYROMETER AMPLIFIER (GAUGE SIGNAL) *
17. PYROMETER AMPLIFIER (GROUND) *
18. ENGINE OIL TEMPERATURE SENDER (INPUT SIGNAL) *

* OPTIONAL

NOTES

1. VIEW OF CLUSTER CONNECTOR VIEWED FROM MATING (TERMINAL) END.

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
JKP	11APR01	CNA1//CAV 14 WAS ---.	A	P54004K	U00EDL2	5000/9100/9200/9400/9900
		TERM 14 WAS FRT AXLE			RELEASE NO. P50317A	DATE 12FEB99

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Figure 151 Left Gauge Cluster — Terminal Information

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

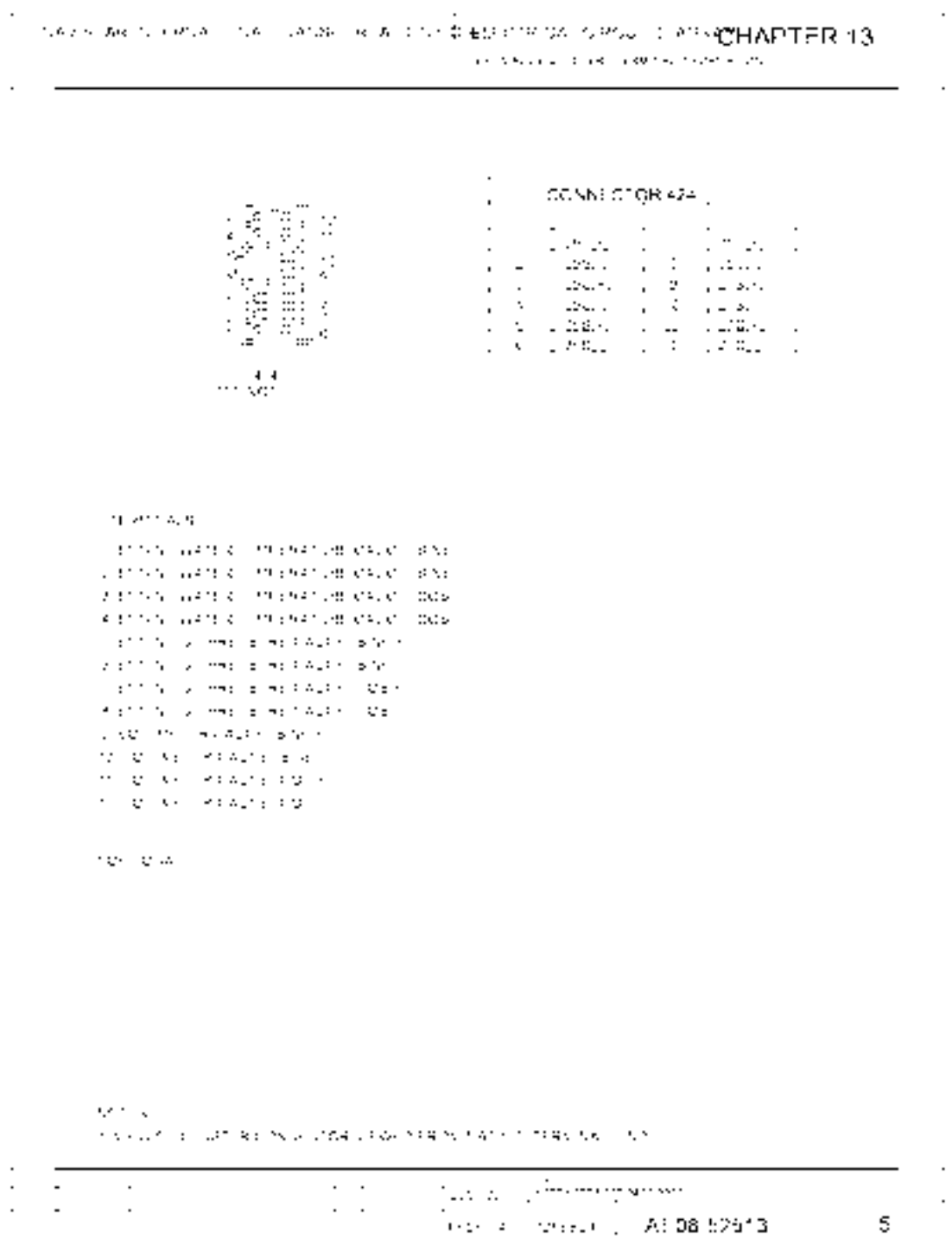

Figure 152 Left Gauge Cluster — Terminal Information

13.6. RIGHT GAUGE CLUSTER (CONNECTOR 420), P. 6

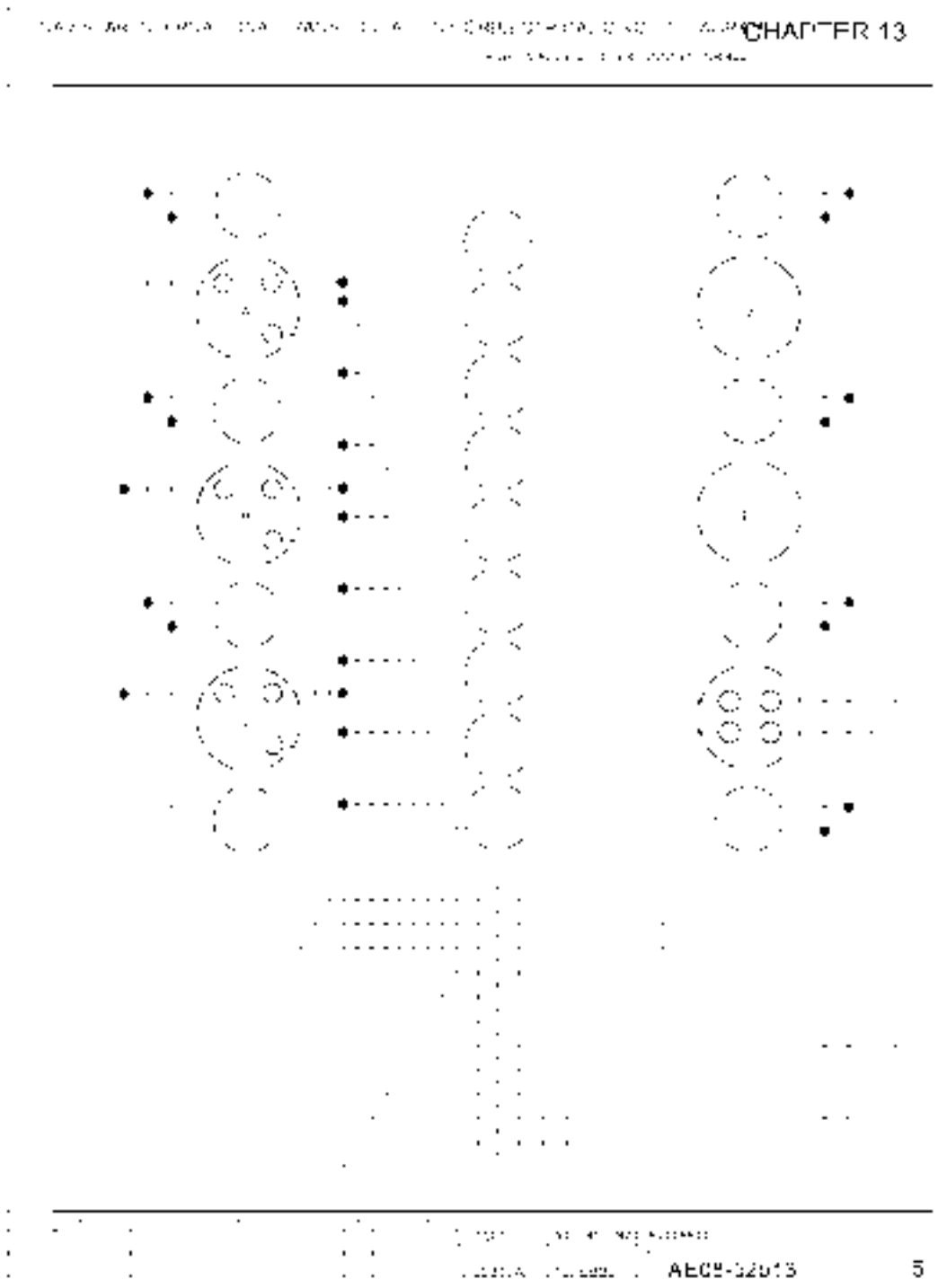

Figure 153 Right Gauge Cluster (Connector 420)

13.7. RIGHT GAUGE CLUSTER — GAUGE INFORMATION, P. 7

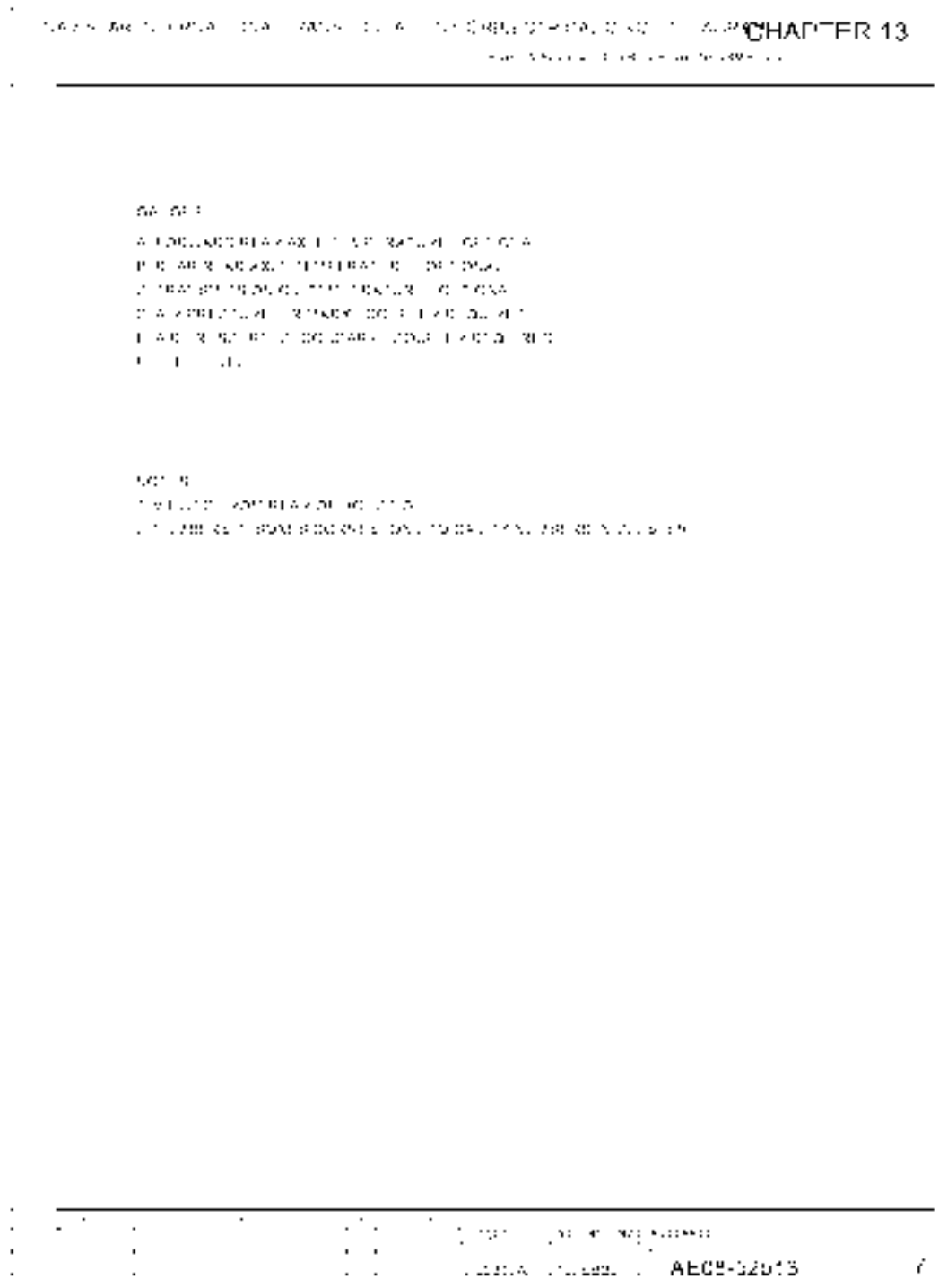

Figure 154 Right Gauge Cluster — Gauge Information

13.8. RIGHT GAUGE CLUSTER — TERMINAL INFORMATION, P. 8

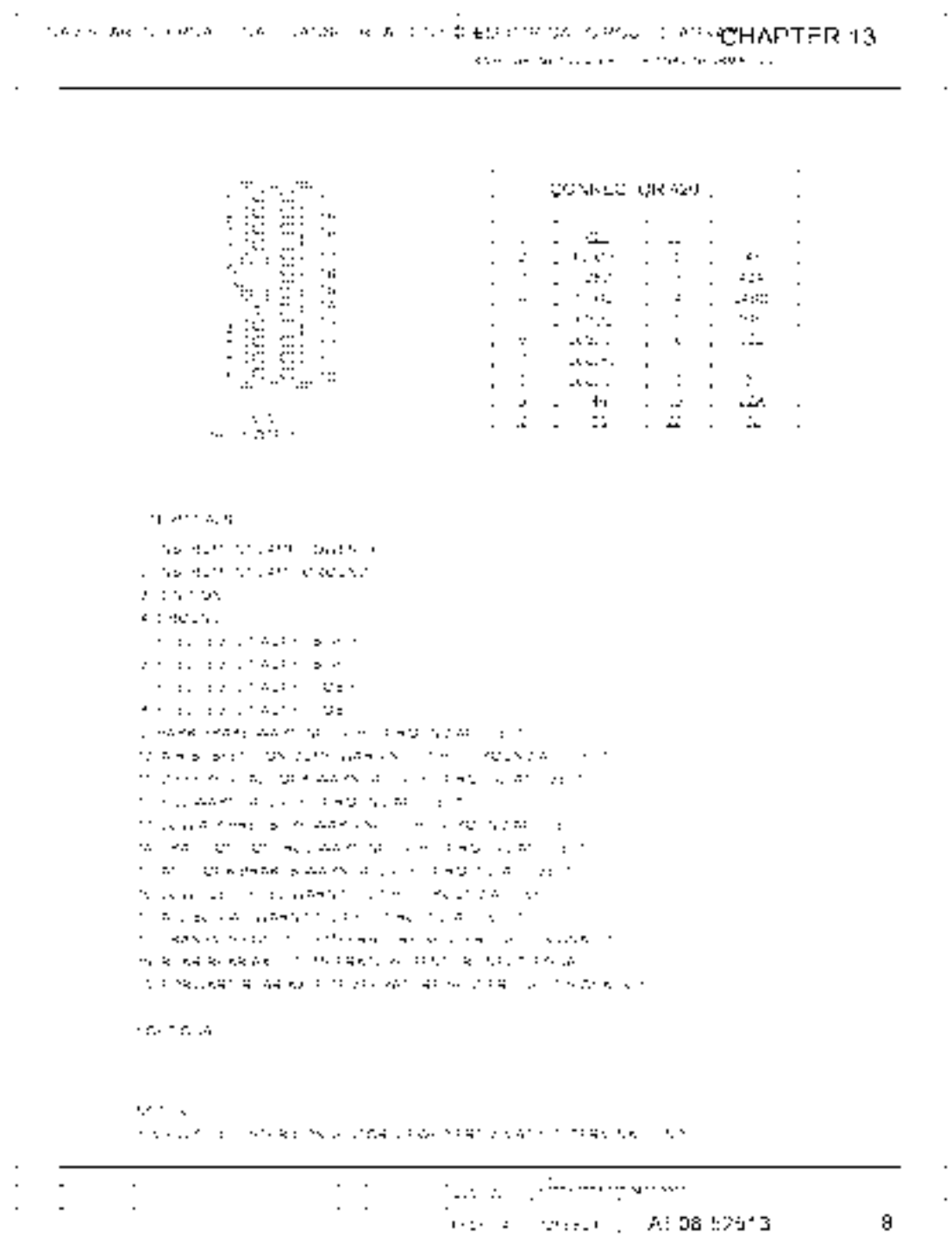

Figure 155 Right Gauge Cluster — Terminal Information

13.9. SPEEDOMETER/TACHOMETER MODULE — TERMINAL INFORMATION, P. 9

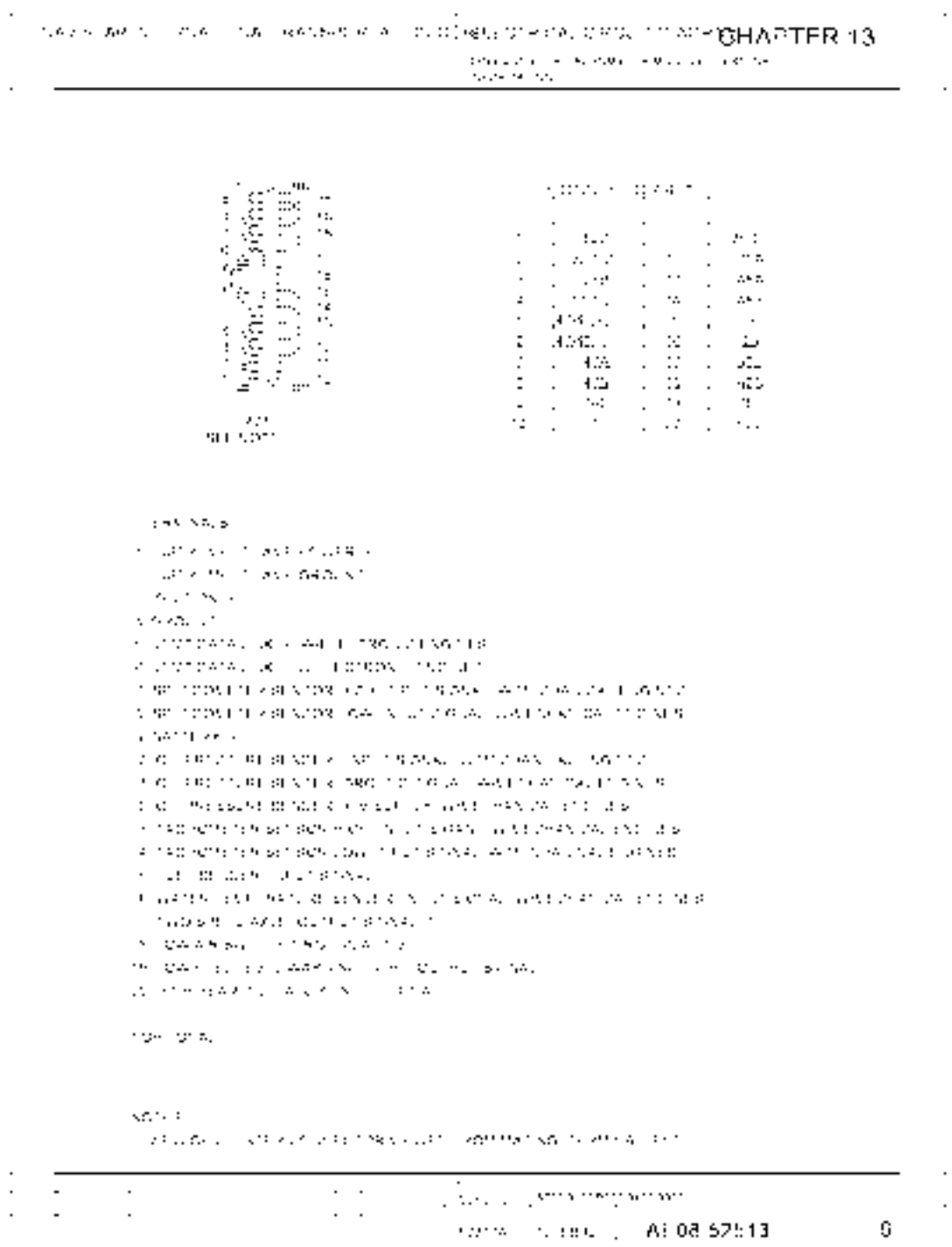

Figure 156 Speedometer/Tachometer Module — Terminal Information

13.10. SPEEDOMETER/TACHOMETER MODULE — TERMINAL INFORMATION, P. 10

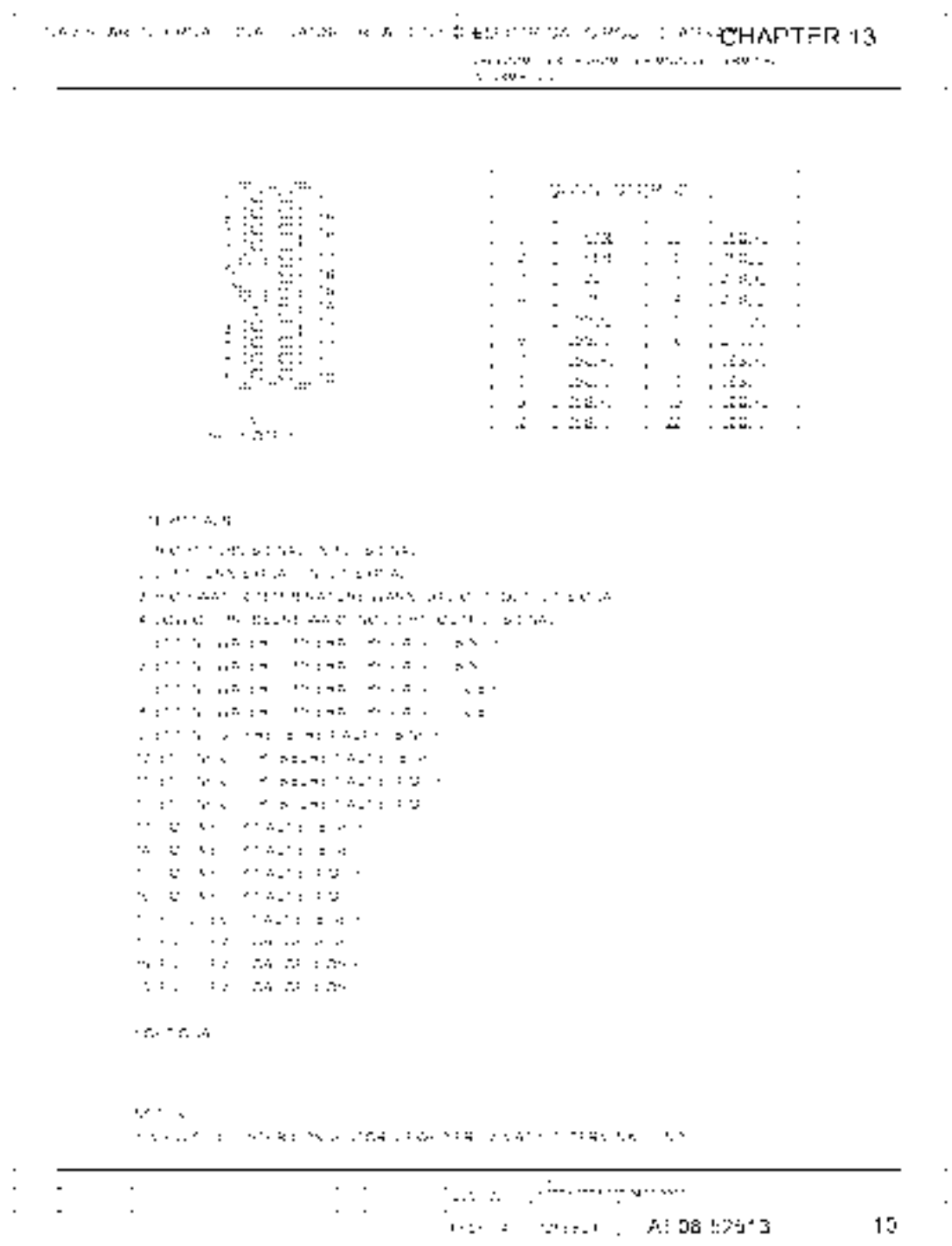

Figure 157 Speedometer/Tachometer Module — Terminal Information

13.11. CONNECTOR COMPOSITES (1), (2), (3), P. 11

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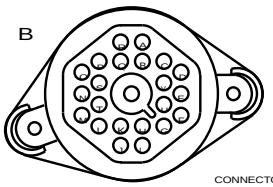
ELECTRICAL CIRCUIT DIAGRAM CHAPTER 13

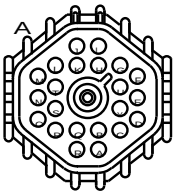
CONNECTOR COMPOSITES

B



CONNECTOR-593389C1
CONN LOCK(2-REC'D)-598333C1
TERMINAL(18,20AWG)-587576C1
TERMINAL(14,16,18AWG)-587575C1
TERMINAL(12AWG)-1673747C1
CABLE SEAL(16,18,20AWG)-1652325C1
CABLE SEAL(14AWG)-589391C1
CABLE SEAL(12AWG)-589390C1

A



CONNECTOR-589332C1
CONN LOCK(2 REC'D)-589333C1
TERMINAL(14,16AWG)-587577C1
TERMINAL(18,20AWG)-587578C1
CAVITY PLUG-587579C1
CABLE SEAL(16,20AWG)-1652325C1
CABLE SEAL(14 AWG)-589391C1

DASH PANEL - LEFT SIDE (1)
A-FRONT END,B-MAIN CAB

CAVITY	CIRCUIT		CAVITY	CIRCUIT	
	A	B		A	B
A	53B	53B	L	---	97AL
B	41C	41C	M	64B	64B
C	41D	41D	N	21	21**
D	---	---	O	---	---
E	RED*	39B	P	56	56
F	52F	52F	Q	21A	21A
G	52-GE	52-GE	R	---	---
H	---	97-GF	S	57	57
I	70A	70A	T	85B	85B
J	70	70	U	---	---
K	58H	58H	V	---	---

*W/AD-9 AIR DRYER **W/ETHER START

DASH PANEL - RIGHT SIDE (2)
A-ENGINE,B-MAIN CAB

CAVITY	CIRCUIT		CAVITY	CIRCUIT	
	B	A		B	A
A	19	---	L	17B	17B
B	30	30	M	82C	82C
C	77C	77C	N	82D	82D
D	48A	---	O	82E	82E
E	92PF	RD	P	13D	13D
F	48B	---	Q	21A	21A
G	71	71	R	23	23
H	71A/71B	71A	S	82F	82F
I	29	29	T	82-GC	82-GC
J	29A	23A	U	97AW	---
K	97BC	23B	V	31	31

DASH PANEL - RIGHT SIDE (3)
A-CHASSIS,B-MAIN CAB

CAVITY	CIRCUIT		CAVITY	CIRCUIT		CAVITY	CIRCUIT		CAVITY	CIRCUIT	
	A	B		A	B		A	B		A	B
A	32	32	G	68A	68A	M	---	---	S	---	87A
B	47A@	47A	H	71A	71A	N	---	---	T	---	87B
C	47B@	47B	I	---	---	O	---	---	U	---	---
D	---	71P	J	---	---	P	---	---	V	36	36
E	56B	56B	K	---	---	Q	---	---			
F	57B	57B	L	---	---	R	32A	32A			

@W/3406C ONLY

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
		MOVED 41C,41D FROM	B	55093Z	U00EDL2	5000/9100/9200/9400/9900
		CAV U,V TO CAV B,C CONN (1).			RELEASE NO. P50317A	DATE 12FEB99

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Figure 158 Connector Composites (1), (2), (3)

13.12. CONNECTOR COMPOSITES (4), (9), (11), (15), (20), (27), P. 12

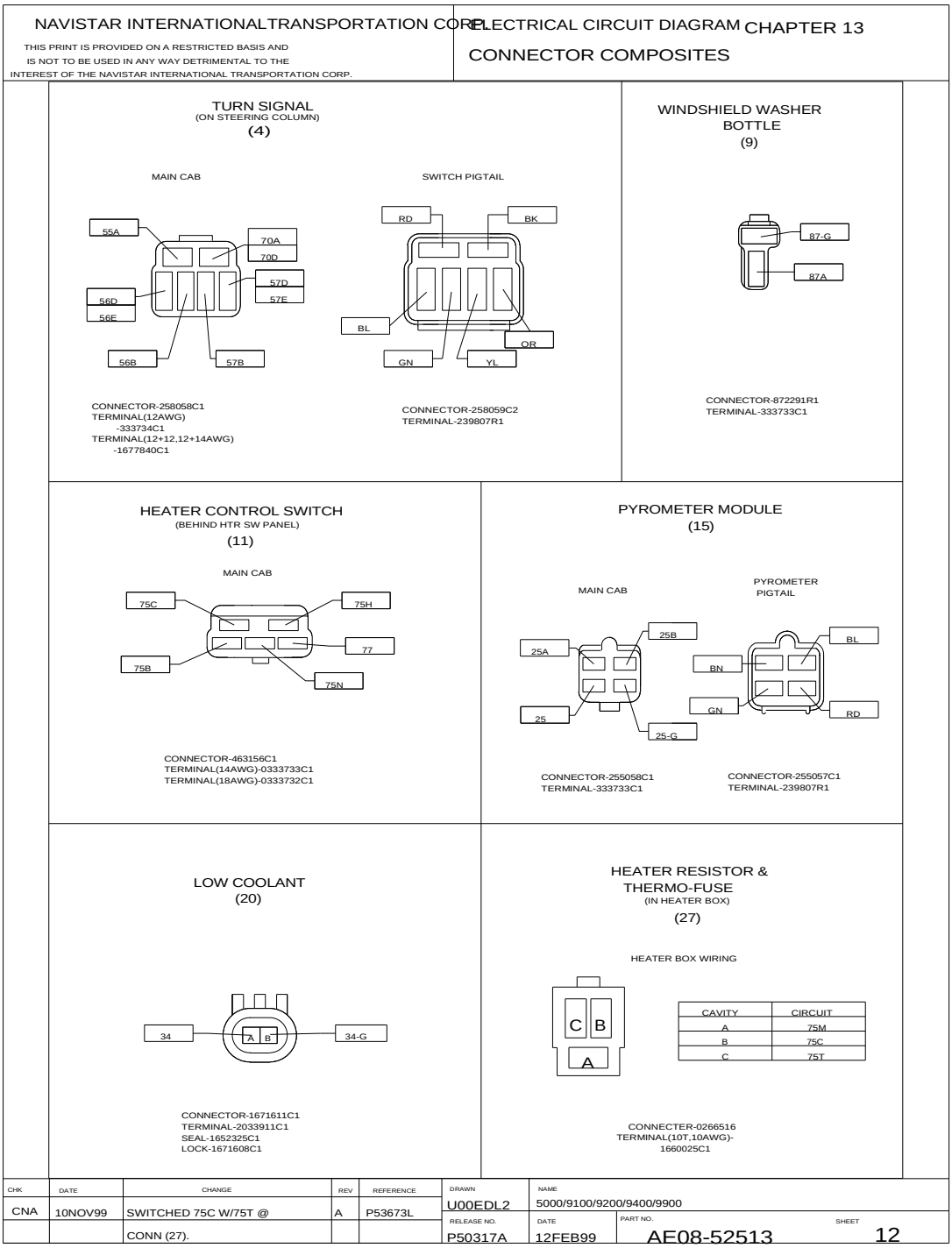

Figure 159 Connector Composites (4), (9), (11), (15), (20), (27)

13.13. CONNECTOR COMPOSITES (40), (41), (42), (43), (48), (65), P. 13

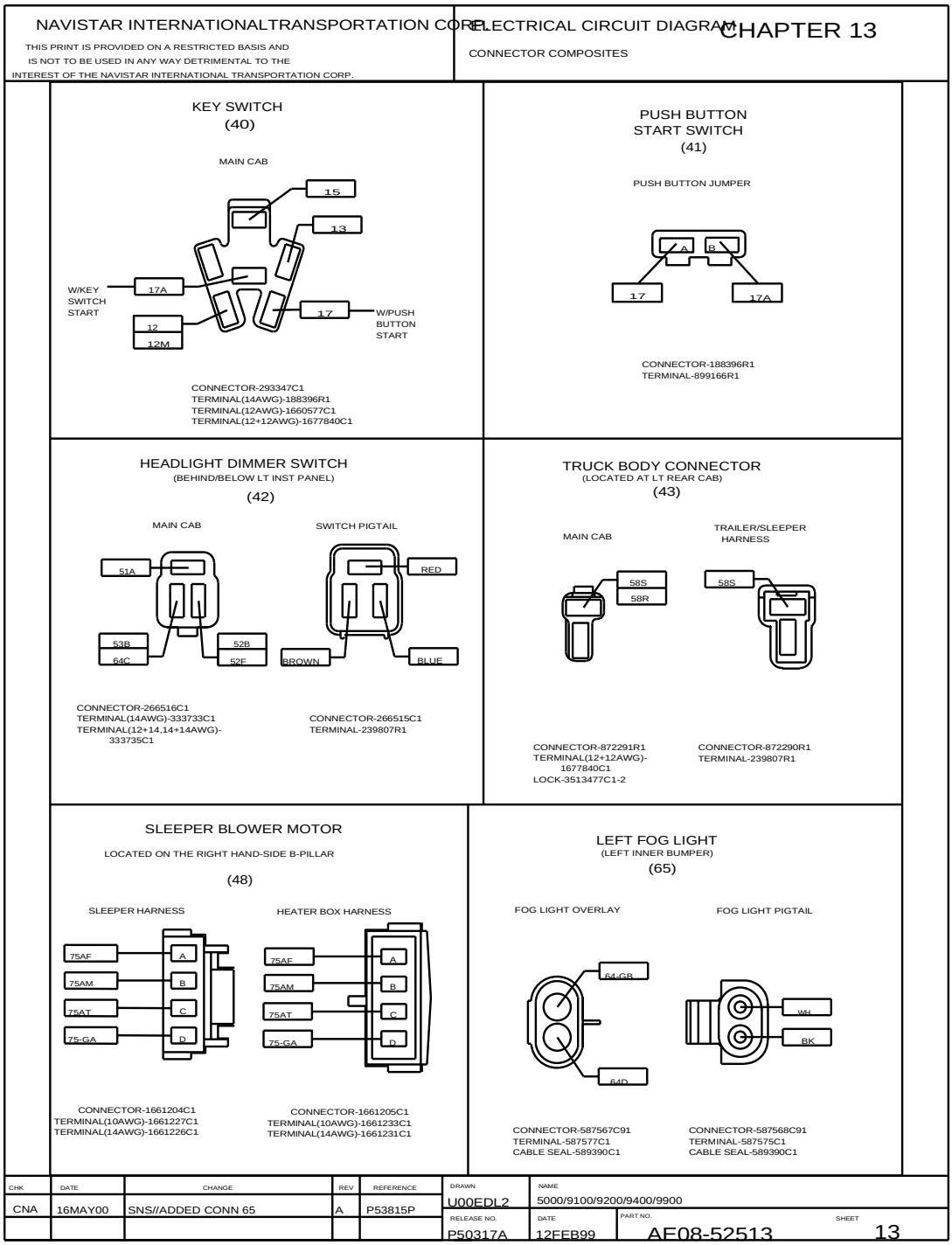

Figure 160 Connector Composites (40), (41), (42), (43), (48), (65)

13.14. CONNECTOR COMPOSITES (66), (71), (72), (76), (77), (94), P. 14

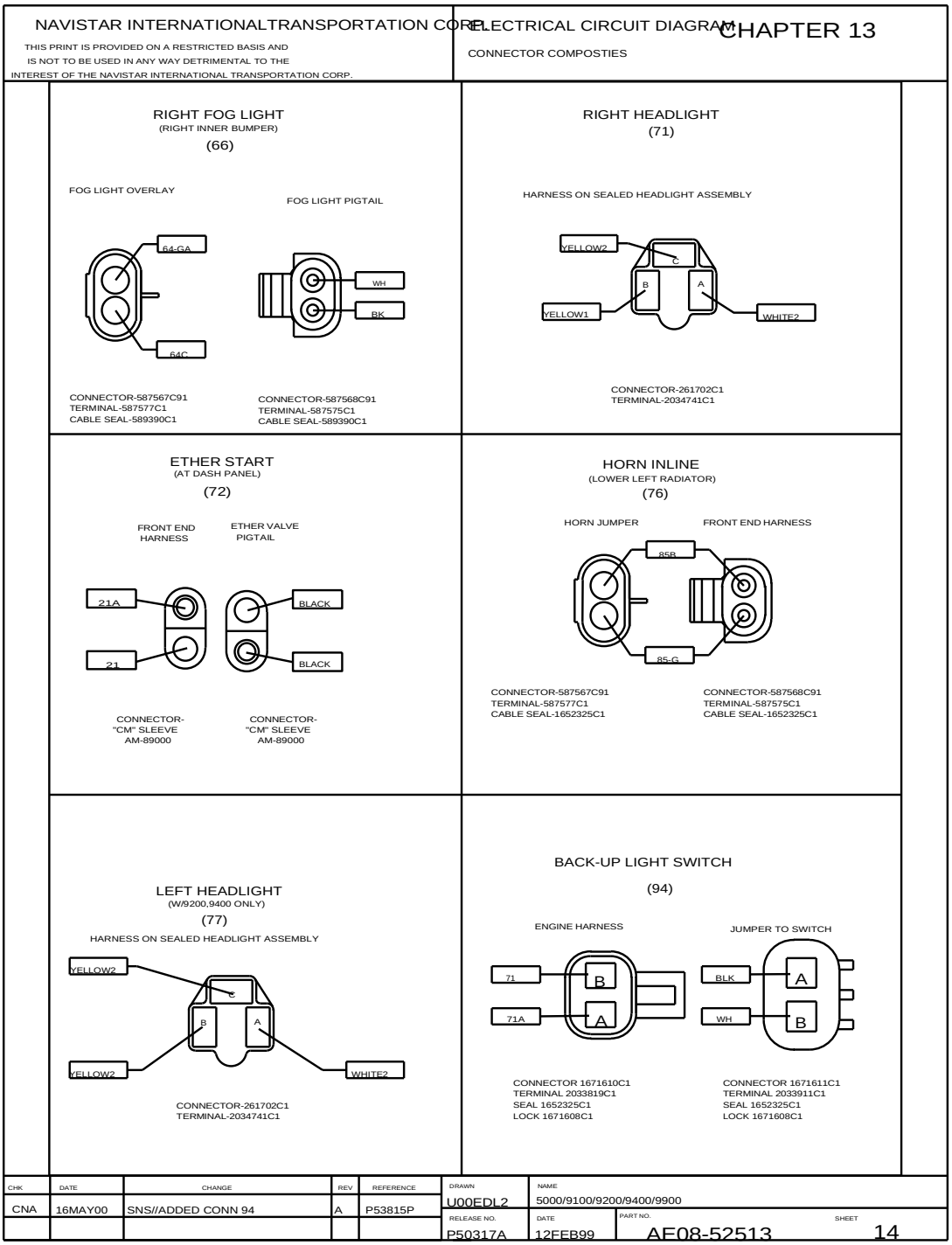

Figure 161 Connector Composites (66), (71), (72), (76), (77), (94)

13.15. CONNECTOR COMPOSITES (100), (100A), (105), (111), (112), (113), (115), P. 15

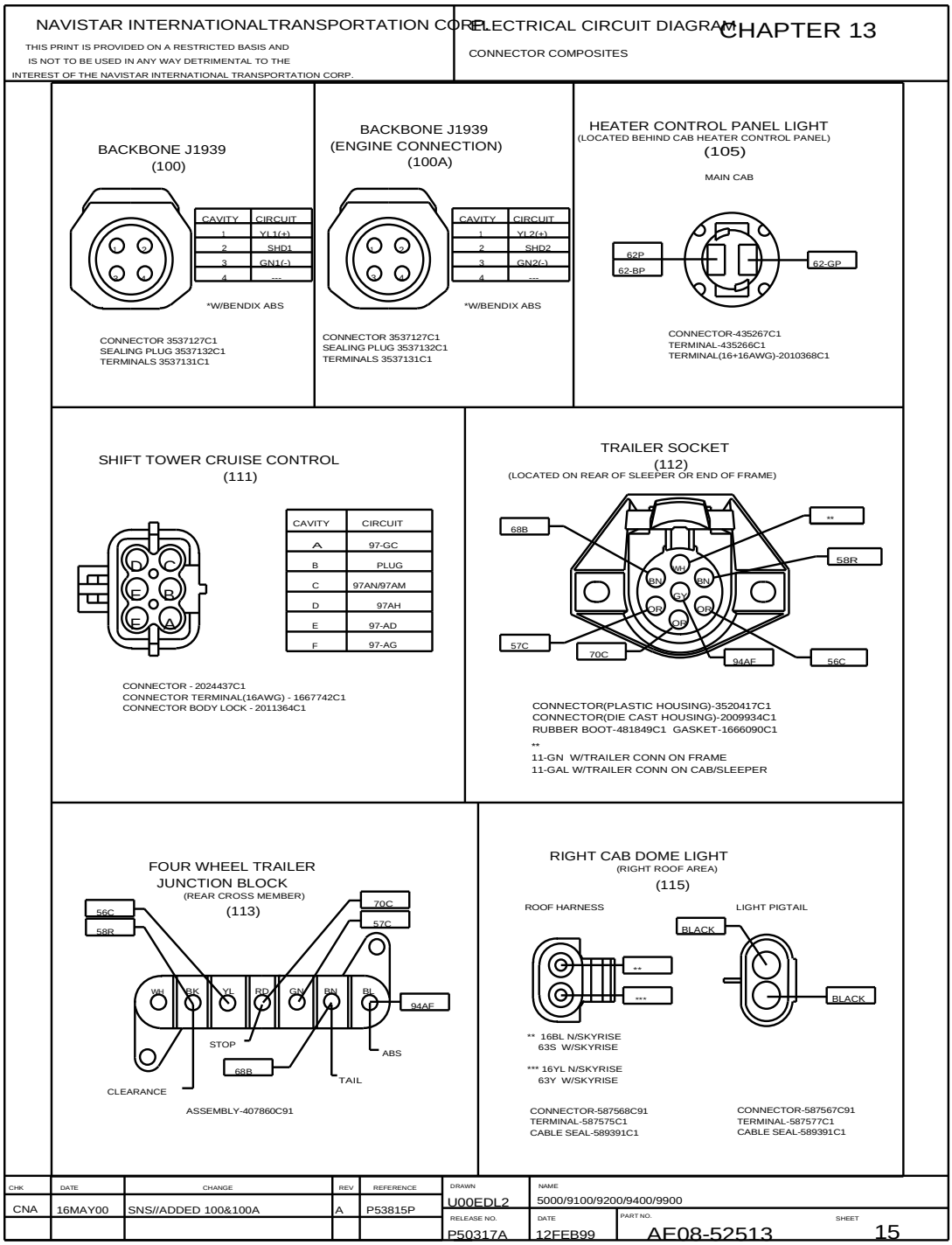

Figure 162 Connector Composites (100), (100A), (105), (111), (112), (113), (115)

13.16. CONNECTOR COMPOSITES (116), (117), (118), (127A), (128), P. 16

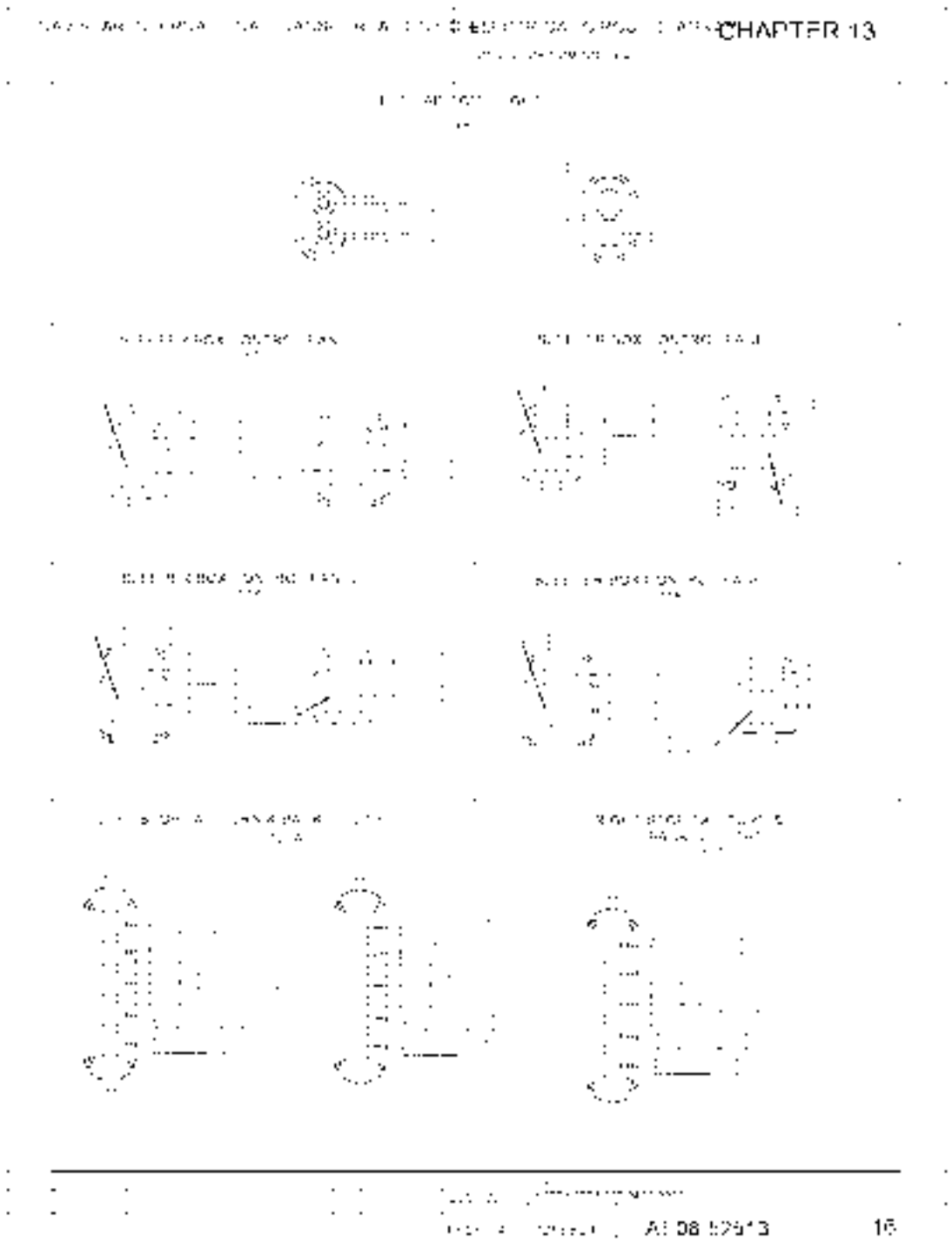

Figure 163 Connector Composites (116), (117), (118), (127A), (128)

13.17. CONNECTOR COMPOSITES (137), (141), (142), (143), (144), (145), (146), (147), (148), P. 17

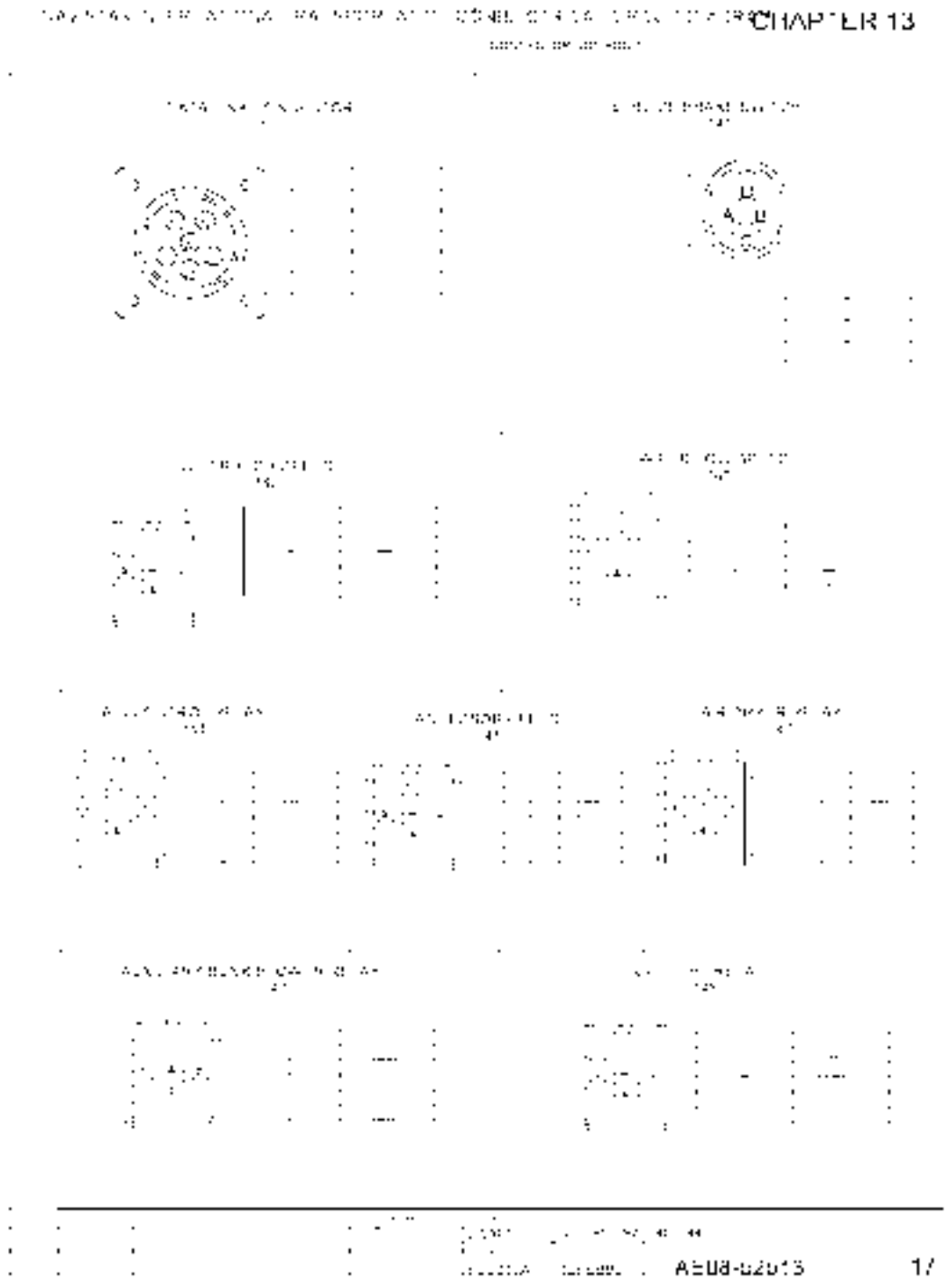

Figure 164 Connector Composites (137), (141), (142), (143), (144), (145), (146), (147), (148)

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

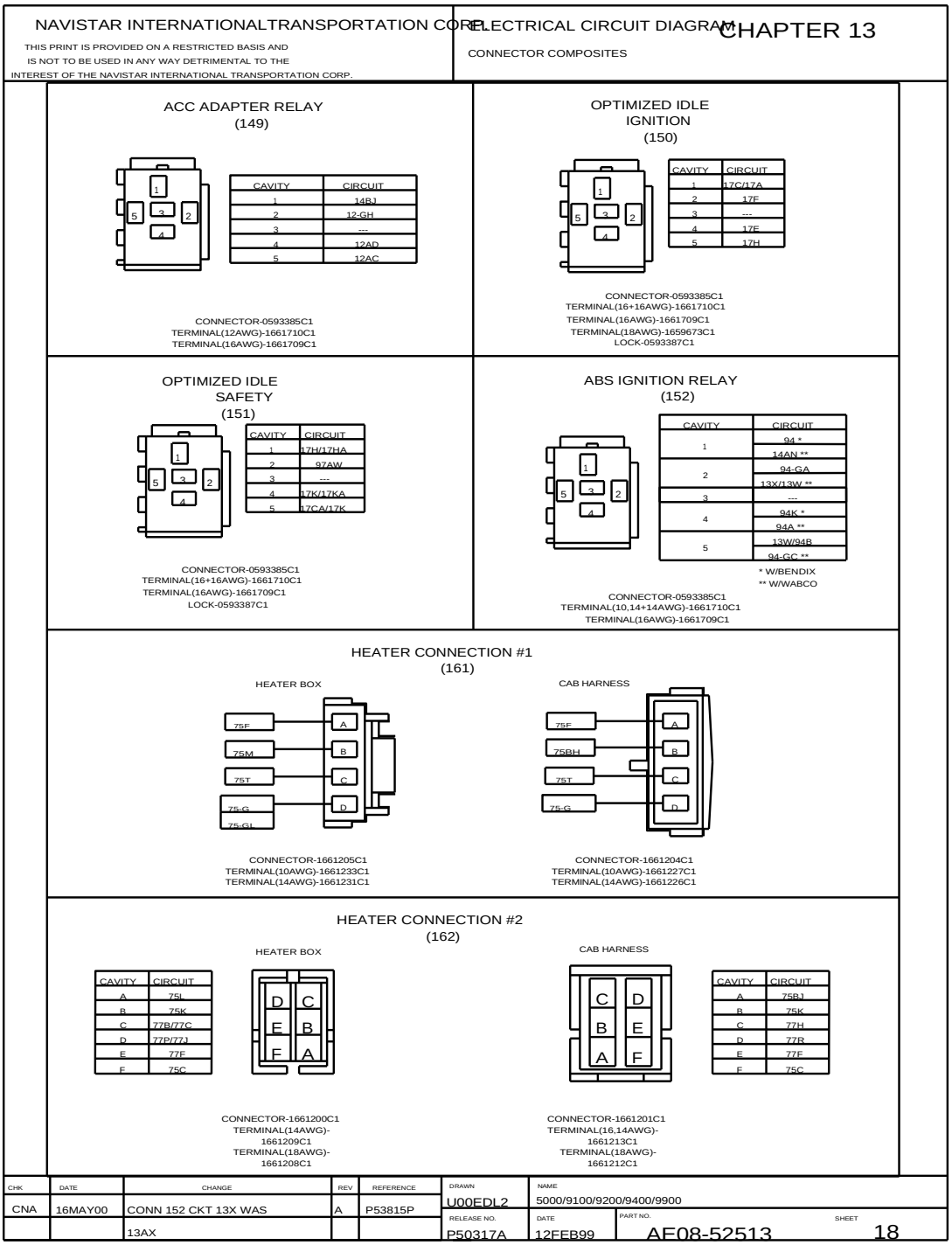

Figure 165 Connector Composites (149), (150), (151), (152), (161), (162)

13.19. CONNECTOR COMPOSITES (165), (166), (167), (170), (171), (180), P. 19

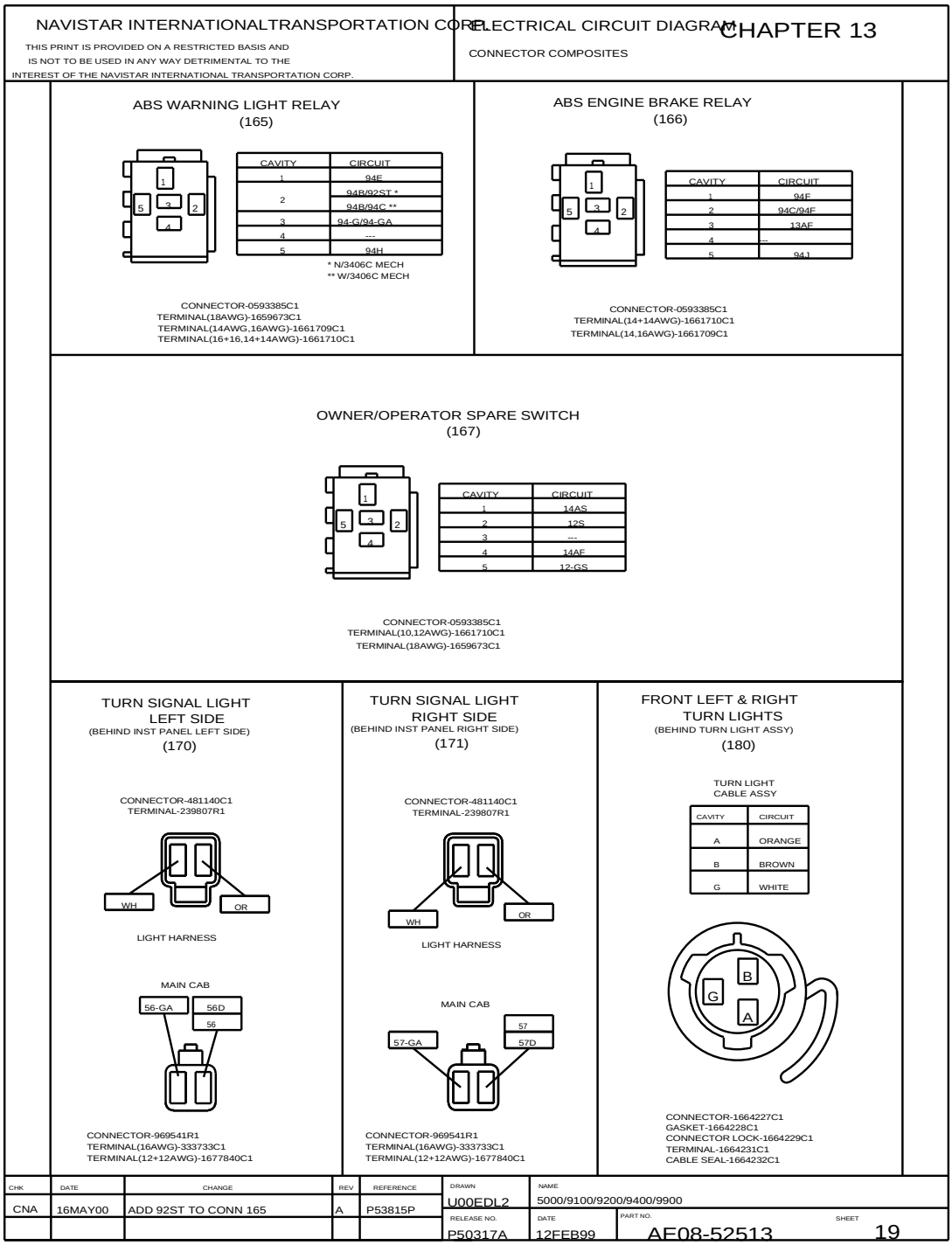

Figure 166 Connector Composites (165), (166), (167), (170), (171), (180)

13.20. CONNECTOR COMPOSITE (190), P. 20

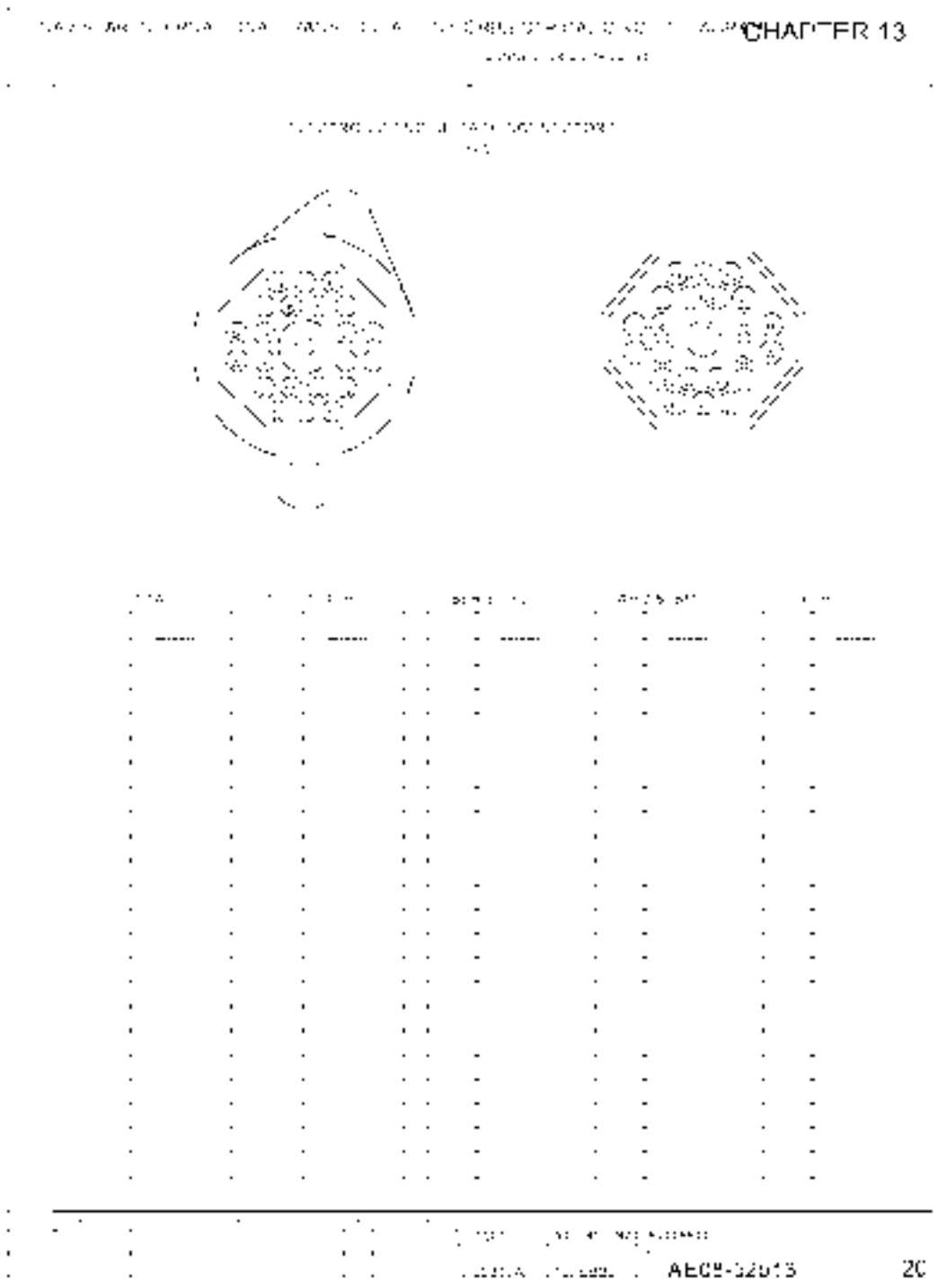

Figure 167 Connector Composite (190)

13.21. CONNECTOR COMPOSITES (196), (199), (200), (201), (209), (211), (214), (216), P. 21

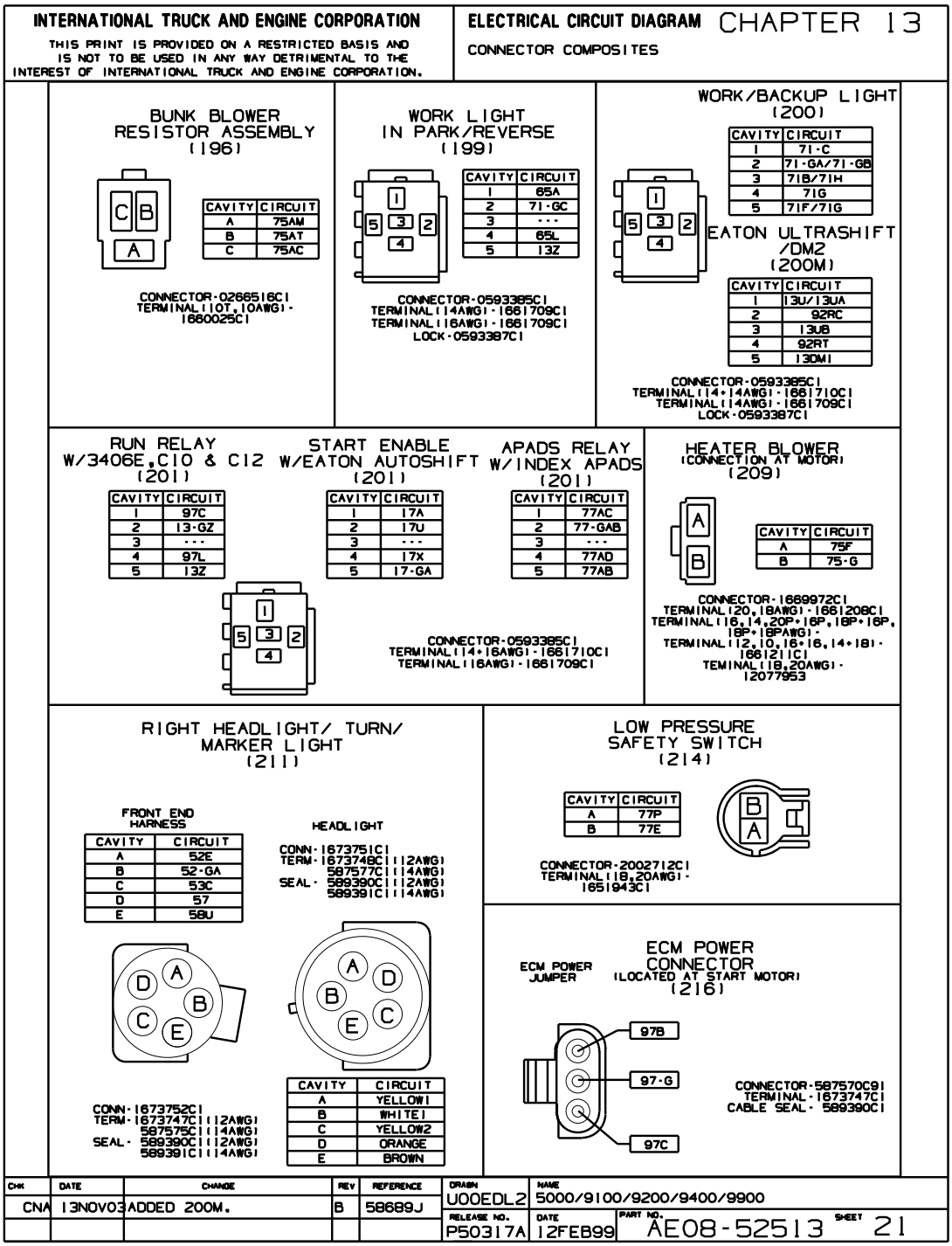

Figure 168 Connector Composites (196), (199), (200), (201), (209), (211), (214), (216)

13.22. CONNECTOR COMPOSITES (217), (218), (220), (221), P. 22

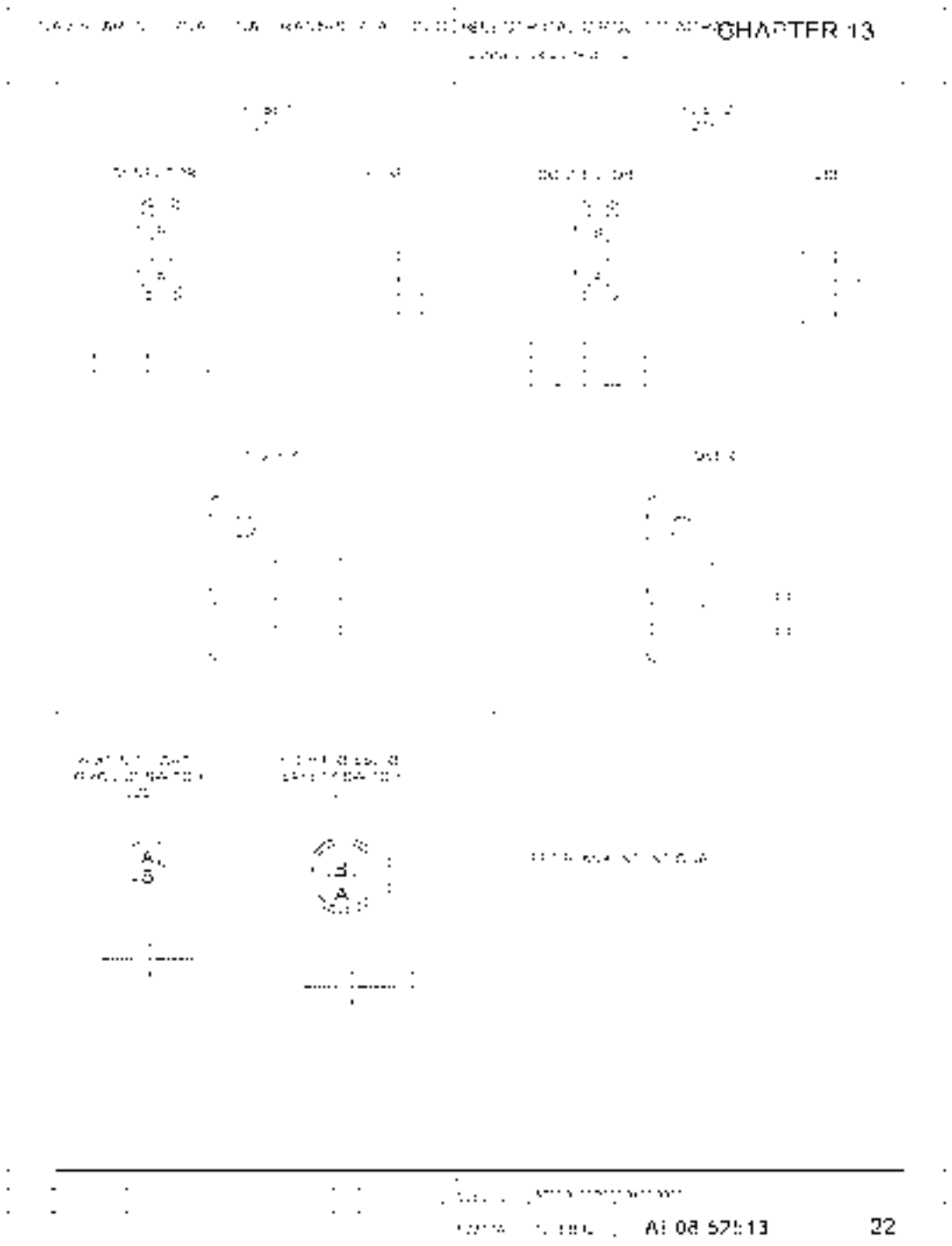

Figure 169 Connector Composites (217), (218), (220), (221)

13.23. CONNECTOR COMPOSITES (227), (228), (229), P. 23

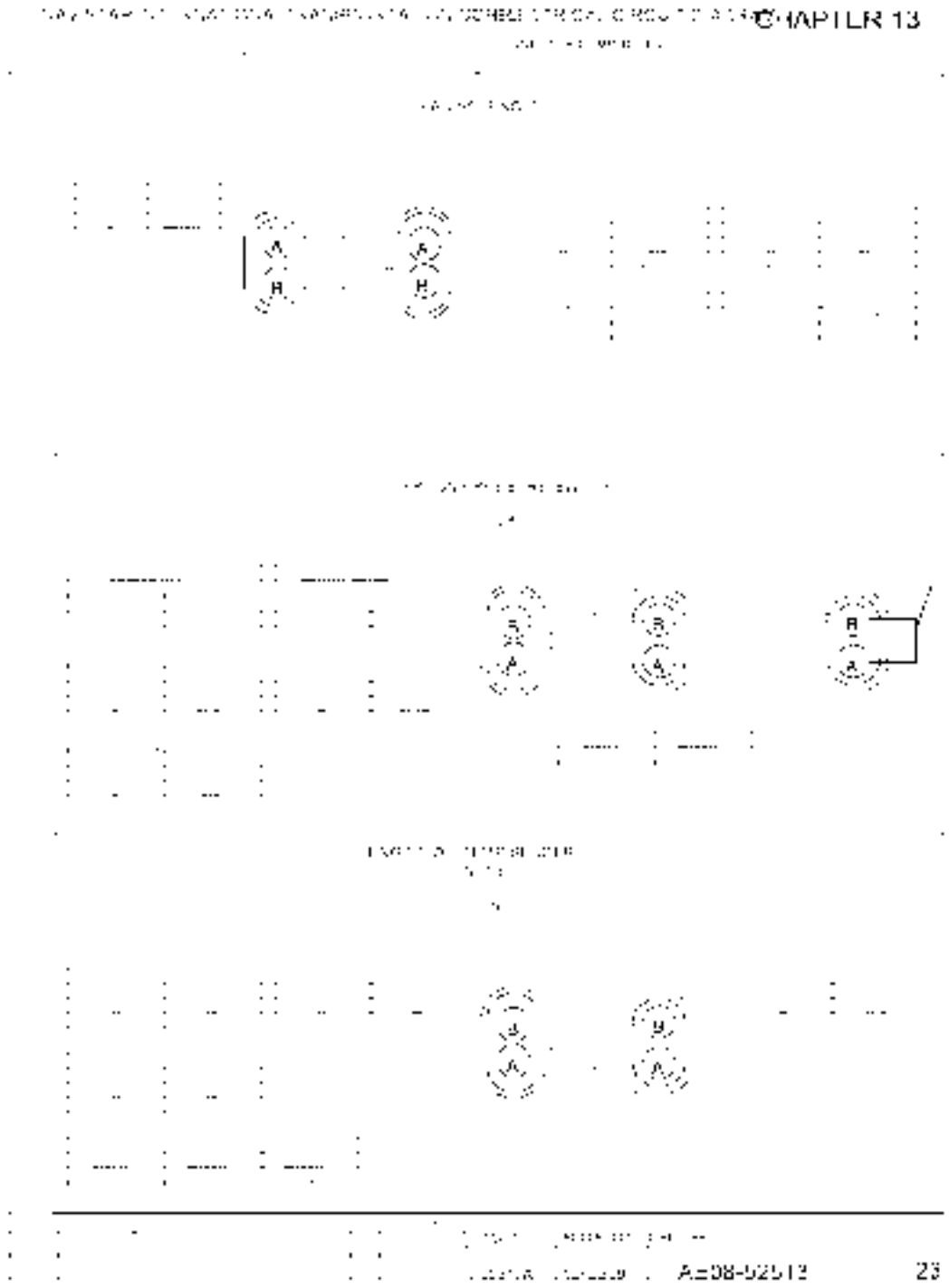

Figure 170 Connector Composites (227), (228), (229)

13.24. CONNECTOR COMPOSITES (230), (231), (236), (241), P. 24

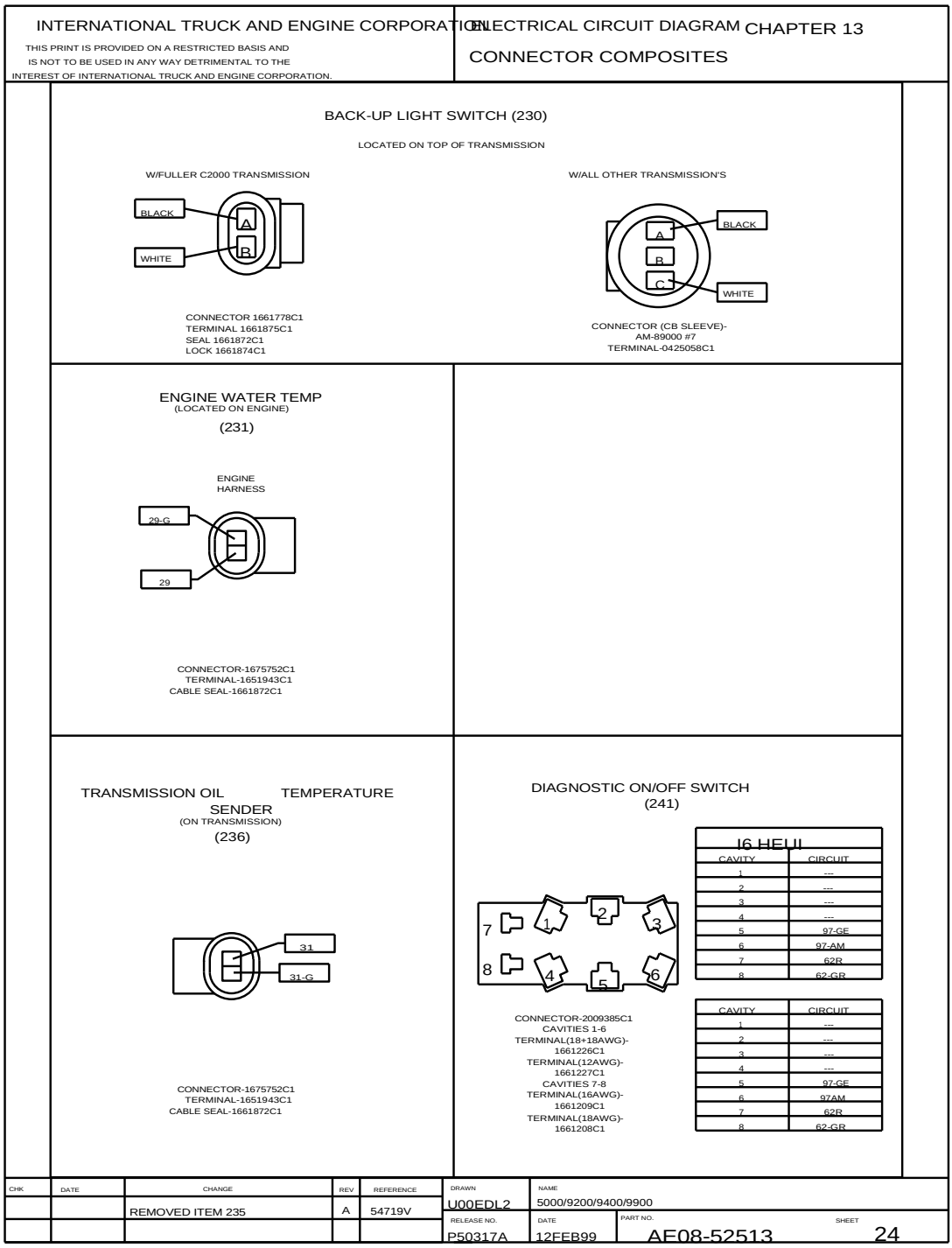

Figure 171 Connector Composites (230), (231), (236), (241)

13.25. CONNECTOR COMPOSITES (243), (244), (249), (250), (251), P. 25

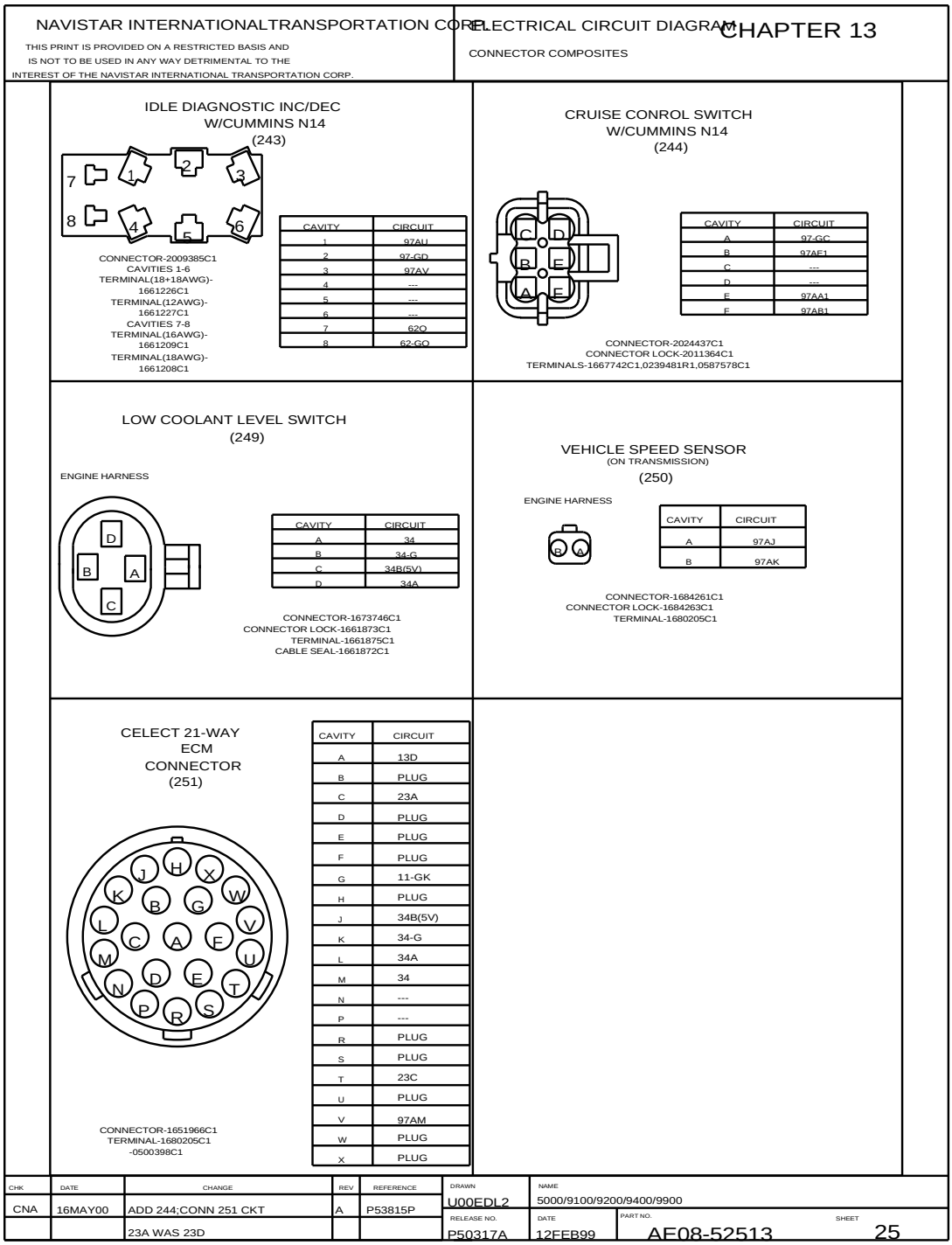

Figure 172 Connector Composites (243), (244), (249), (250), (251)

13.26. CONNECTOR COMPOSITES (252), (260), (267), P. 26

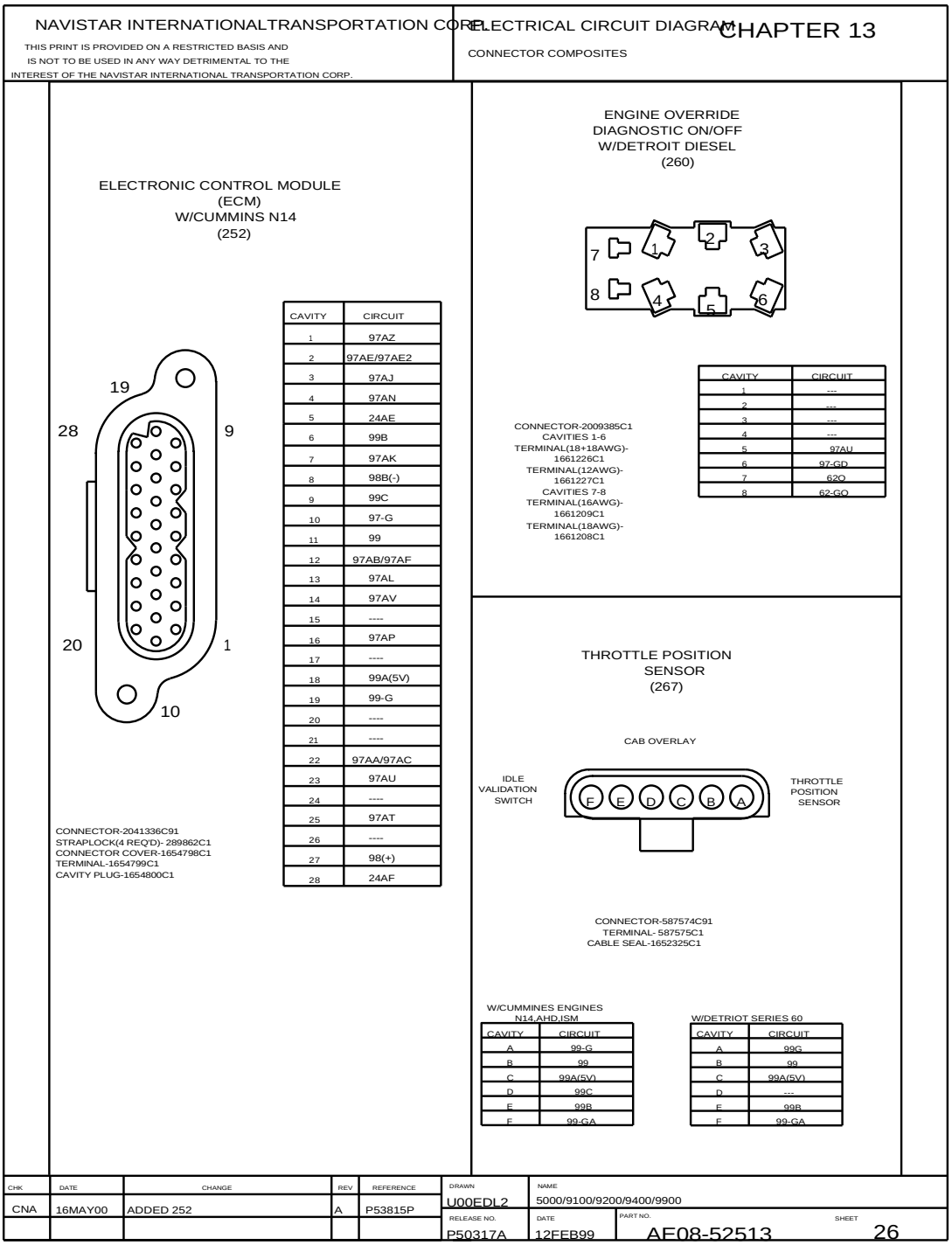

Figure 173 Connector Composites (252), (260), (267)

13.27. CONNECTOR COMPOSITES (268), (273), (275), (278), (282), (289), P. 27

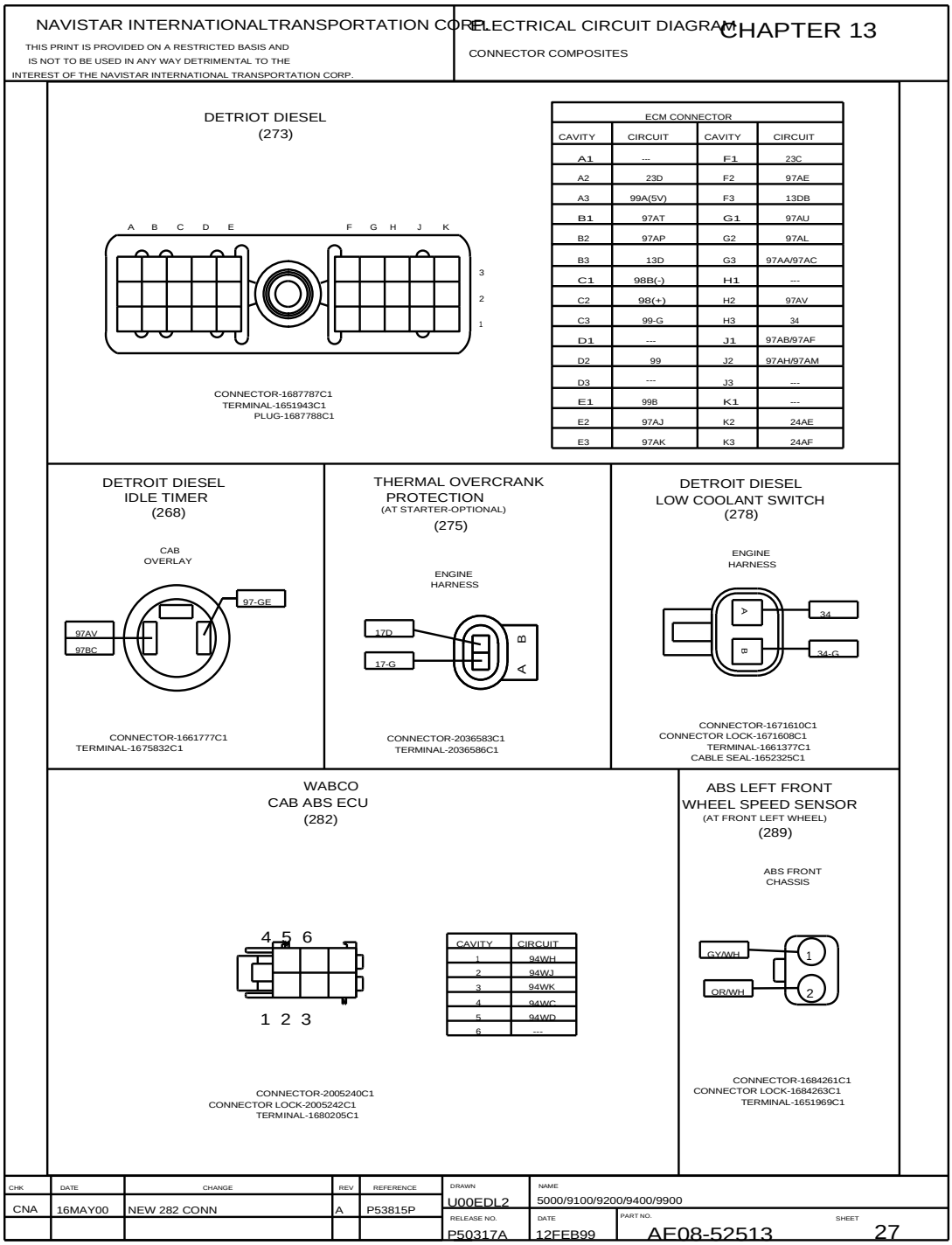

Figure 174 Connector Composites (268), (273), (275), (278), (282), (289)

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

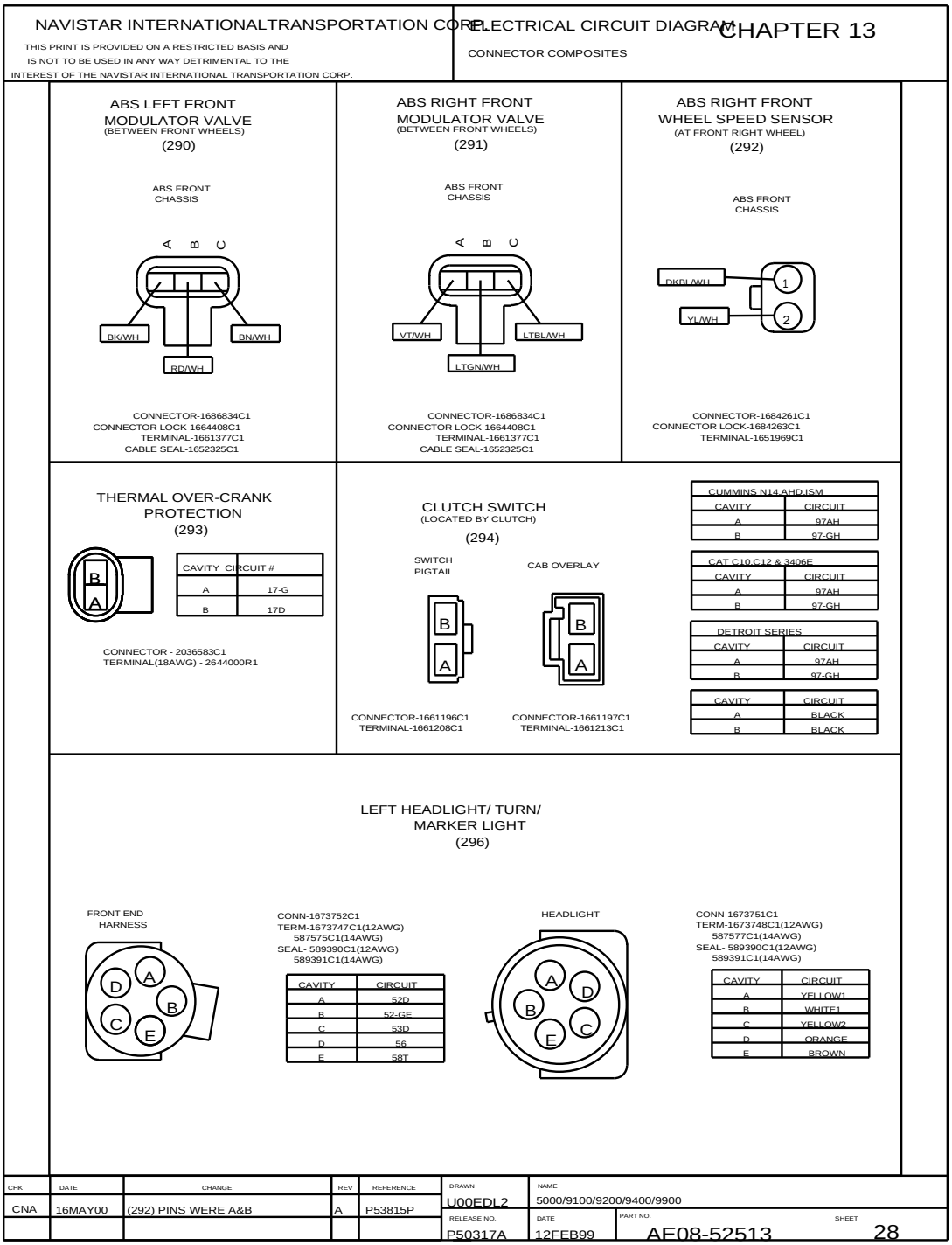

Figure 175 Connector Composites (290), (291), (292), (293), (294), (296)

13.29. CONNECTOR COMPOSITES (298), (299), (311), (312), (313), (315, 316), P. 29

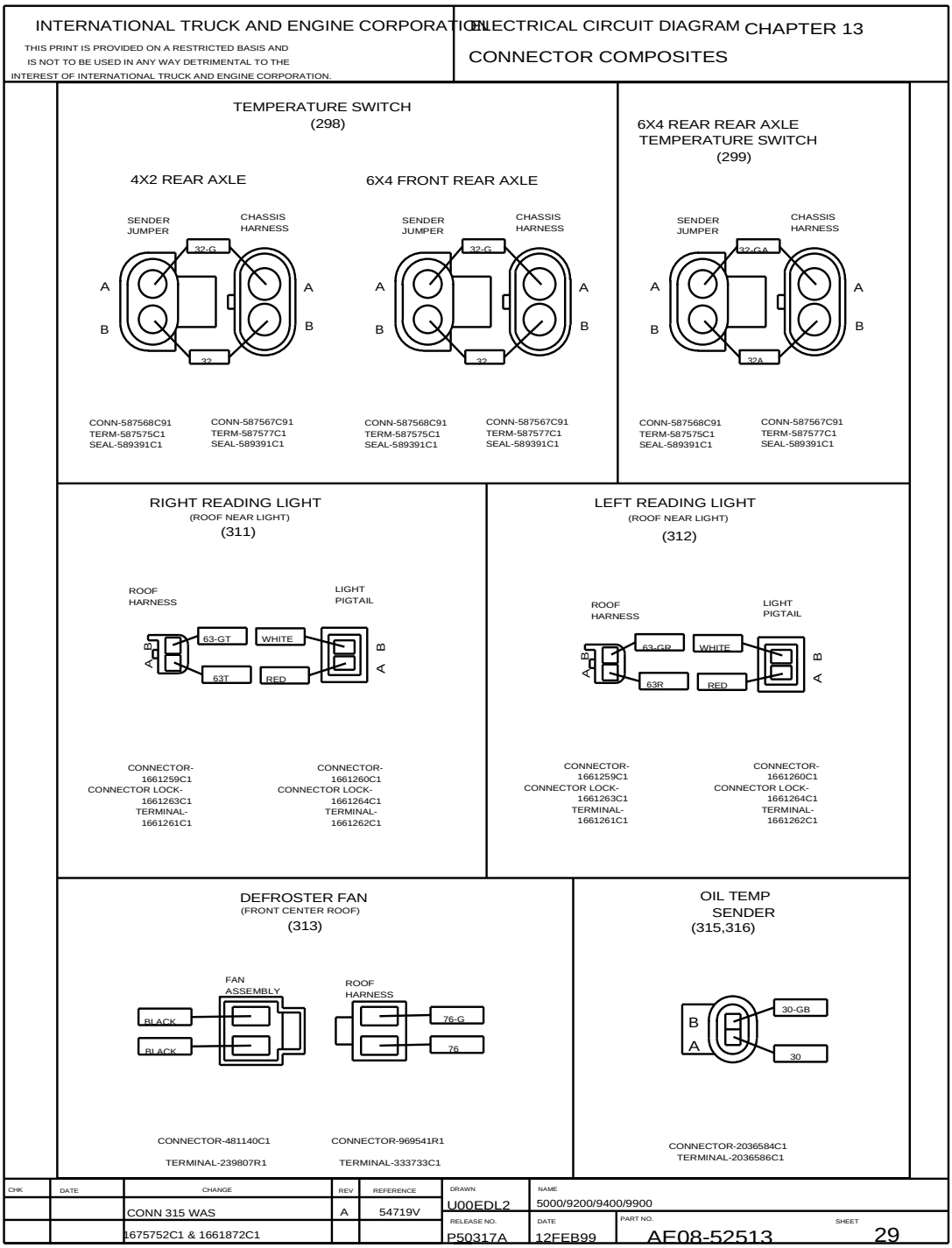

Figure 176 Connector Composites (298), (299), (311), (312), (313), (315, 316)

13.30. CONNECTOR COMPOSITES (316), (318), (320), (321), (322), (323), P. 30

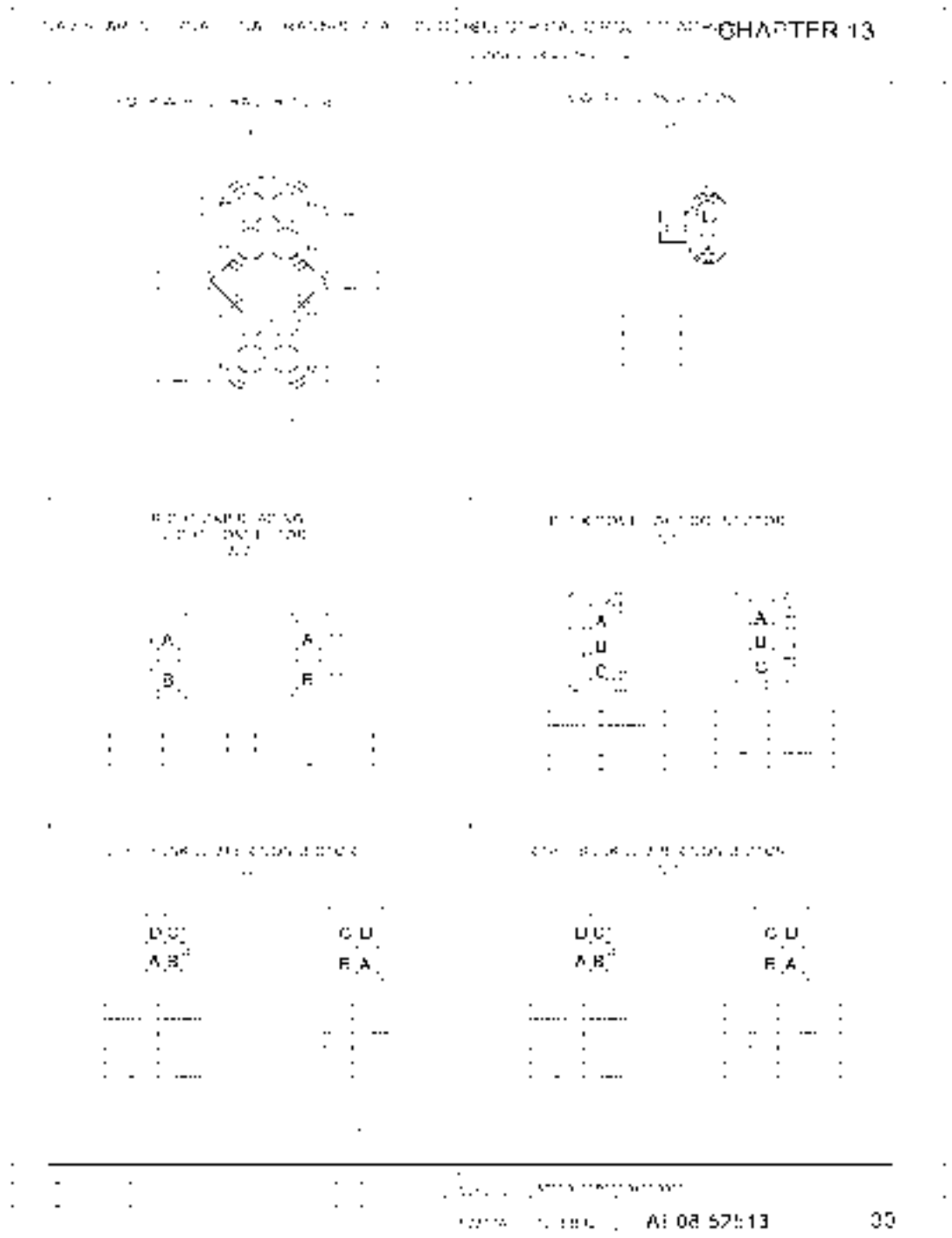

Figure 177 Connector Composites (316), (318), (320), (321), (322), (323)

13.31. CONNECTOR COMPOSITES (325), (345), (350), (351), (352), (353), (354), P. 31

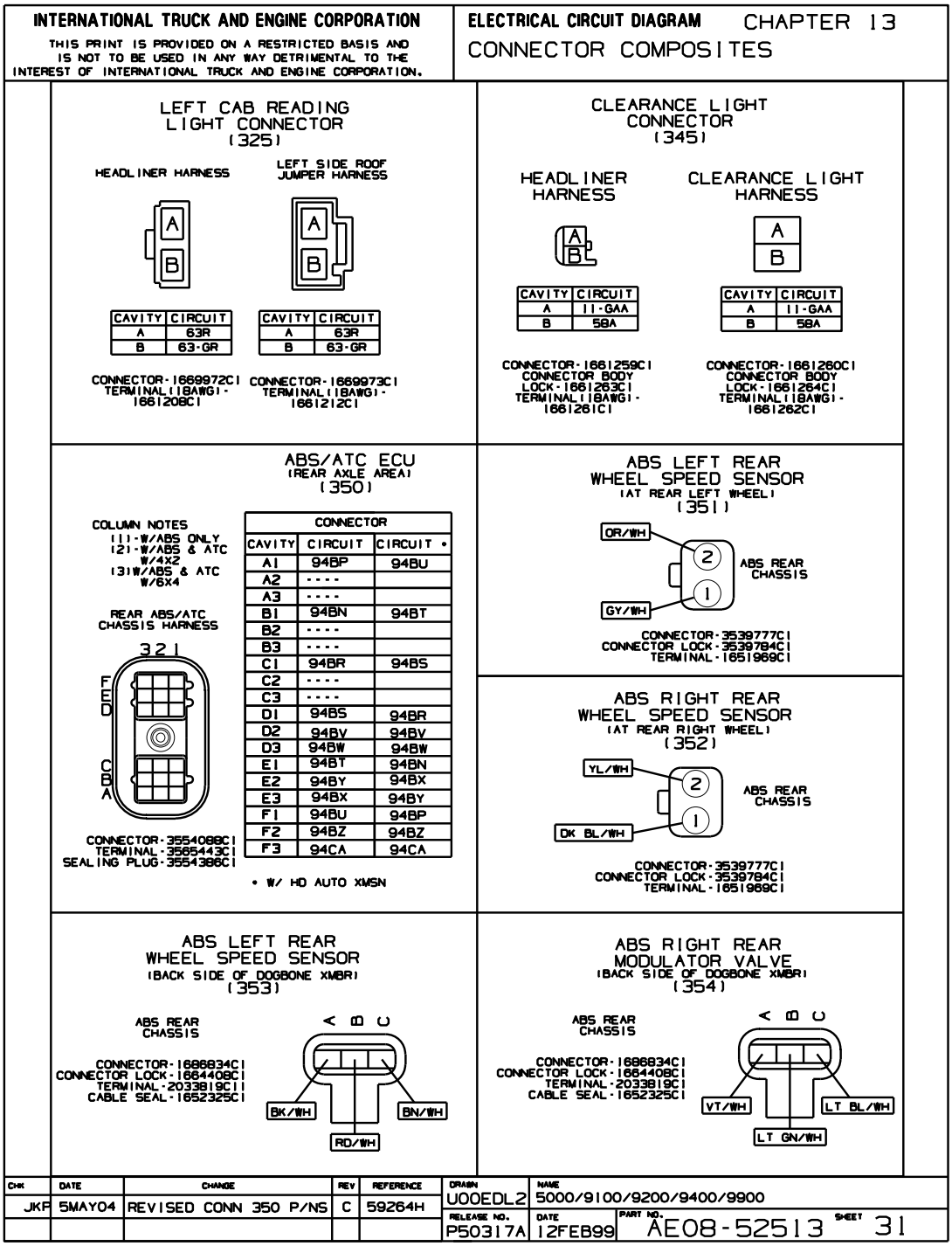

Figure 178 Connector Composites (325), (345), (350), (351), (352), (353), (354)

13.32. CONNECTOR COMPOSITES (355), (360), (363), (379), (393), (396), P. 32

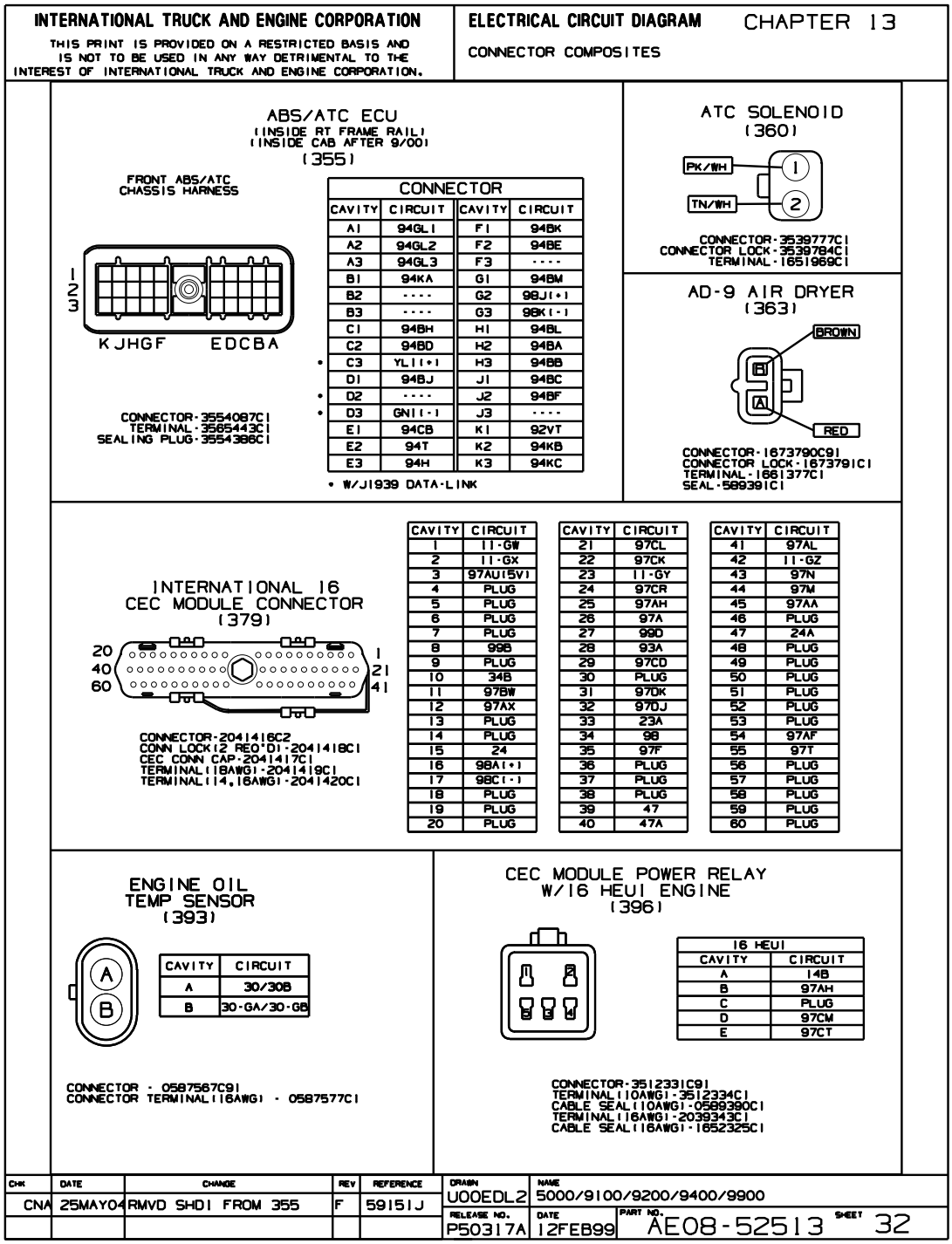

Figure 179 Connector Composites (355), (360), (363), (379), (393), (396)

13.33. CONNECTOR COMPOSITES (400), (402), (403), (404), (406), (409), P. 33

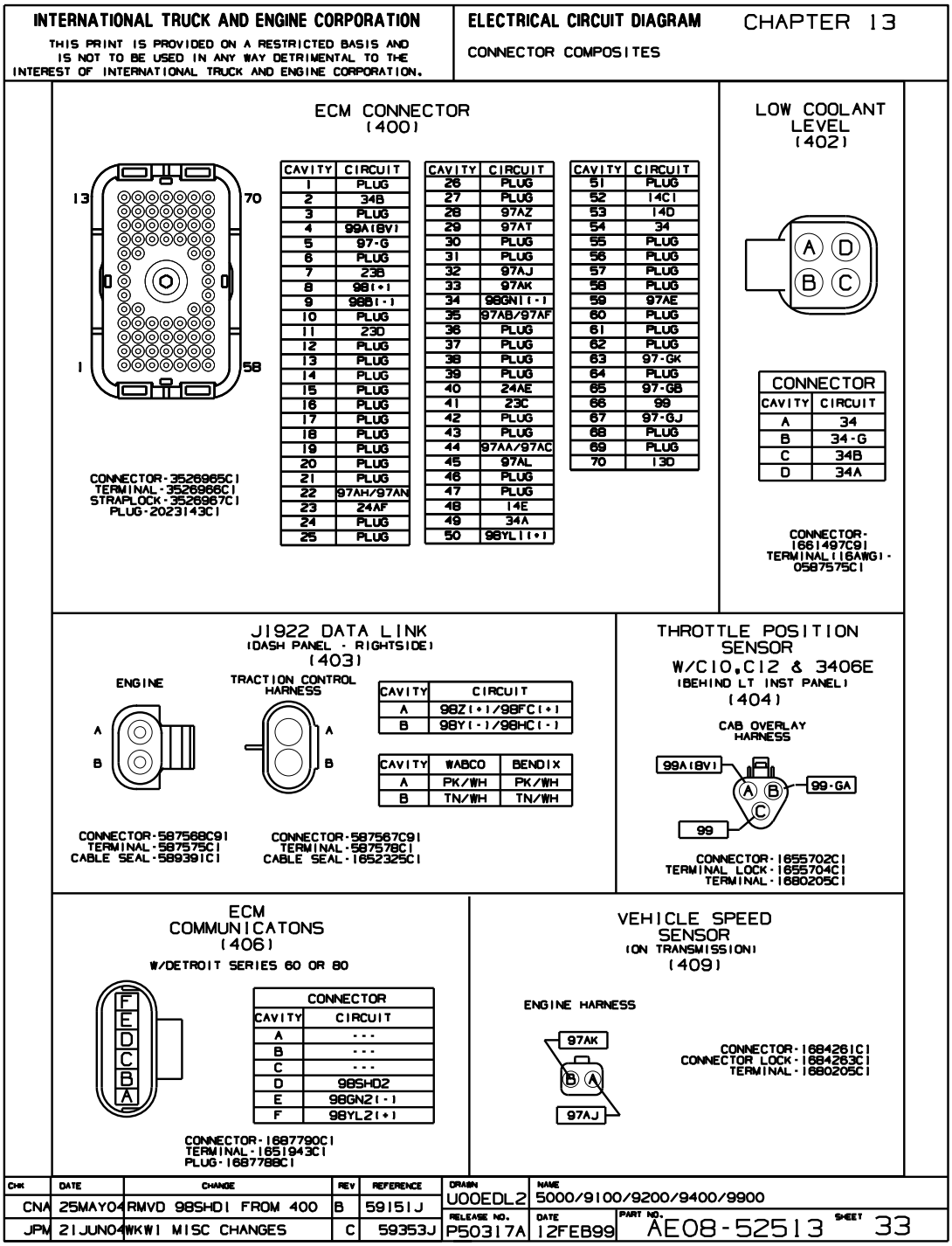

Figure 180 Connector Composites (400), (402), (403), (404), (406), (409)

13.34. CONNECTOR COMPOSITES (417), (420), (421), P. 34

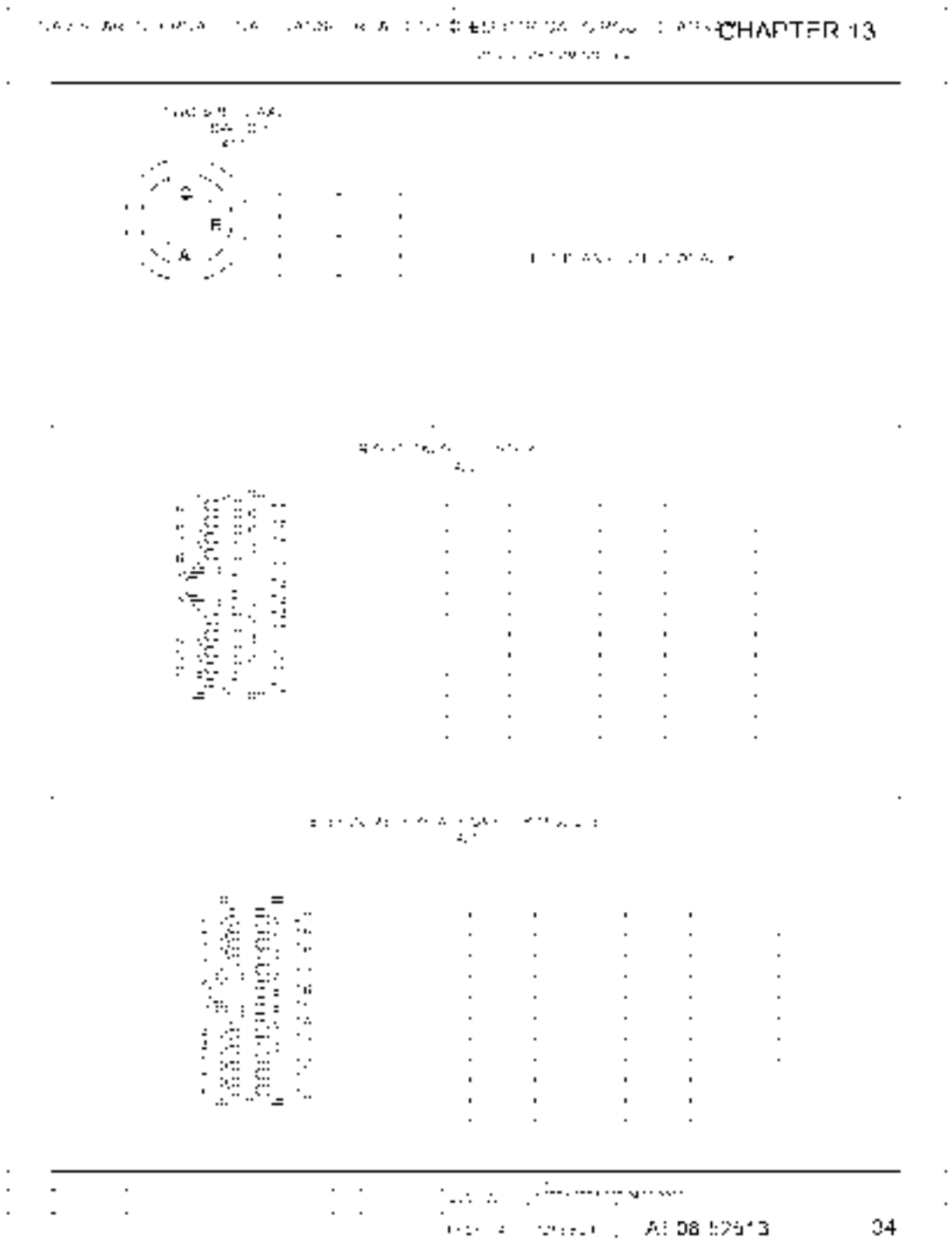

Figure 181 Connector Composites (417), (420), (421)

13.35. CONNECTOR COMPOSITES (422), (423), (424), (425), (426), P. 35

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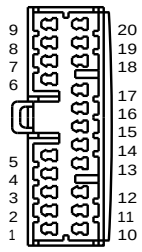
ELECTRICAL CIRCUIT DIAGRAM CHAPTER 13

CONNECTOR COMPOSITES

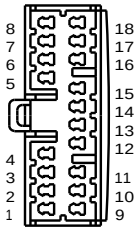
SPEEDOMETER/TACHOMETER MODULE
(422)



CAVITY	CIRCUIT	CAVITY	CIRCUIT
1	57R	11	35C(+)
2	56R	12	35C(-)
3	29L	13	27S(+)
4	35L	14	27S(-)
5	29S(+)	15	27C(+)
6	29S(-)	16	27C(-)
7	29C(+)	17	36S(+)
8	29C(-)	18	36S(-)
9	35S(+)	19	36C(+)
10	35S(-)	20	36C(-)

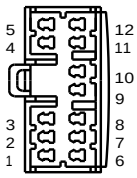
YELLOW CONNECTOR-2018591C1
TERMINAL(18AWG)-2018639C1

LEFT GAUGE CLUSTER
(423)



CAVITY	CIRCUIT	CAVITY	CIRCUIT
1	62C	10	97AT
2	62-GC	11	97AP
3	28A	12	28D
4	11-GM	13	97AZ
5	29L	14	94T
6	34B	15	25A
7	65C	16	25B
8	---	17	25-GA
9	35L	18	30

WHITE CONNECTOR-2018589C1
TERMINAL(18AWG)-2018639C1

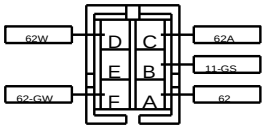


LEFT GAUGE CLUSTER
(424)

CAVITY	CIRCUIT	CAVITY	CIRCUIT
1	29S(+)	7	35C(+)
2	29S(-)	8	35C(-)
3	29C(+)	9	27S(+)
4	29C(-)	10	27S(-)
5	35S(+)	11	27C(+)
6	35S(-)	12	27C(-)

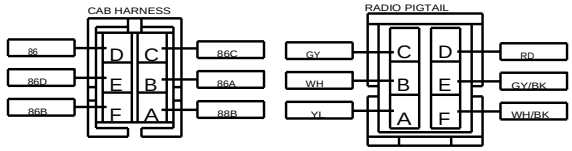
WHITE CONNECTOR-2018590C1
TERMINAL(18AWG)-2018639C1

PANEL LIGHTS
SWITCH
(425)



CONNECTOR-1661200C1
TERMINAL(16AWG)-1661209C1
TERMINAL(18AWG)-1661208C1

RADIO CONNECTOR #1
(426)



CONNECTOR-1661200C1
TERMINAL(16AWG)-1661209C1
TERMINAL(18AWG)-1661208C1

CONNECTOR-1661201C1
TERMINAL(18,20AWG)-1661212C1

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
JKP	11APR01	CNA1//CONN 423: ADD	A	P54004K	U00EDL2	5000/9100/9200/9400/9900
		94T TO CAV 14.			RELEASE NO. P50317A	DATE 12FEB99

PART NO. AE08-52513 SHEET 35

Figure 182 Connector Composites (422), (423), (424), (425), (426)

13.36. CONNECTOR COMPOSITES (427), (428), (429), (430), P. 36

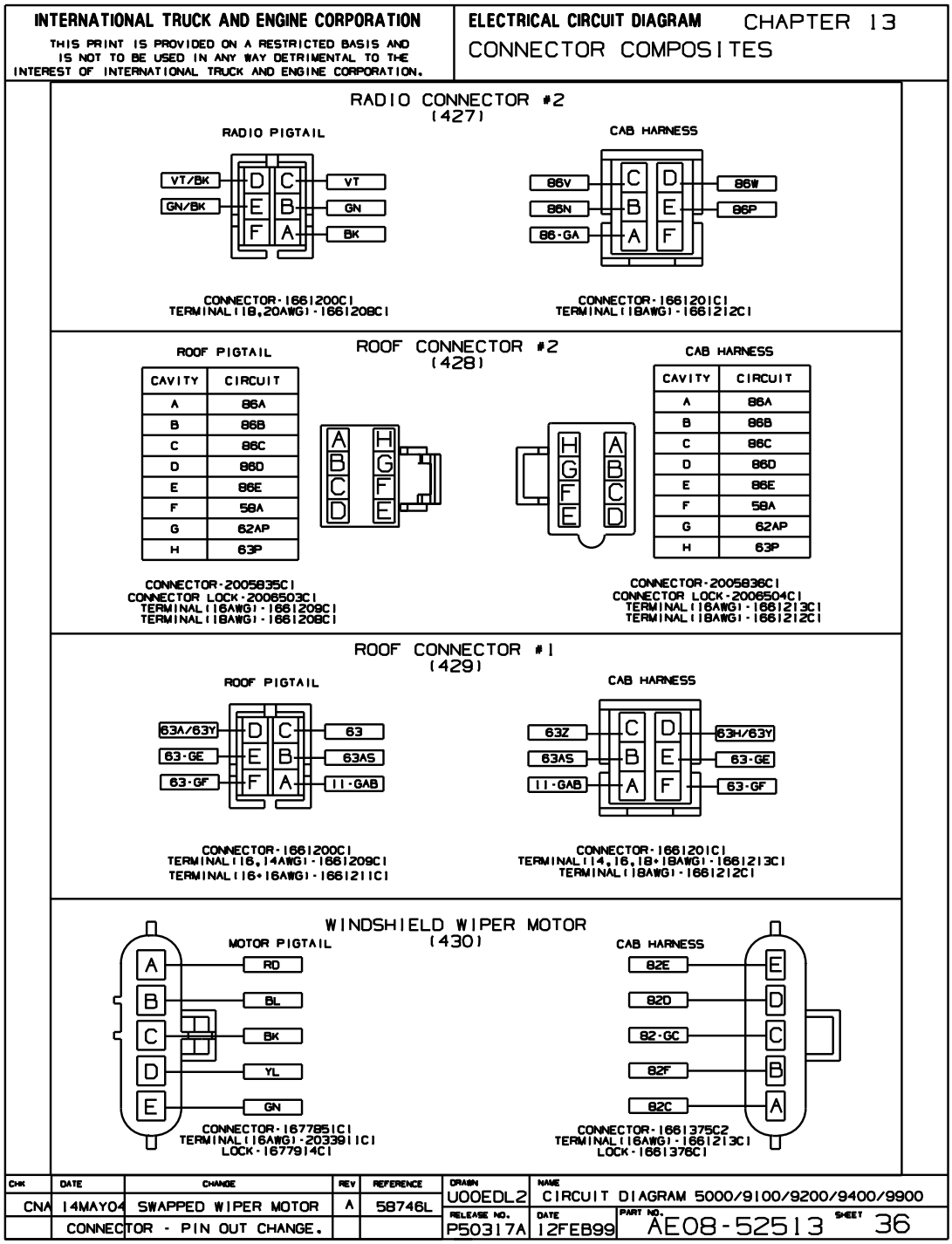


Figure 183 Connector Composites (427), (428), (429), (430)

13.37. CONNECTOR COMPOSITES (433), (434), (435), P. 37

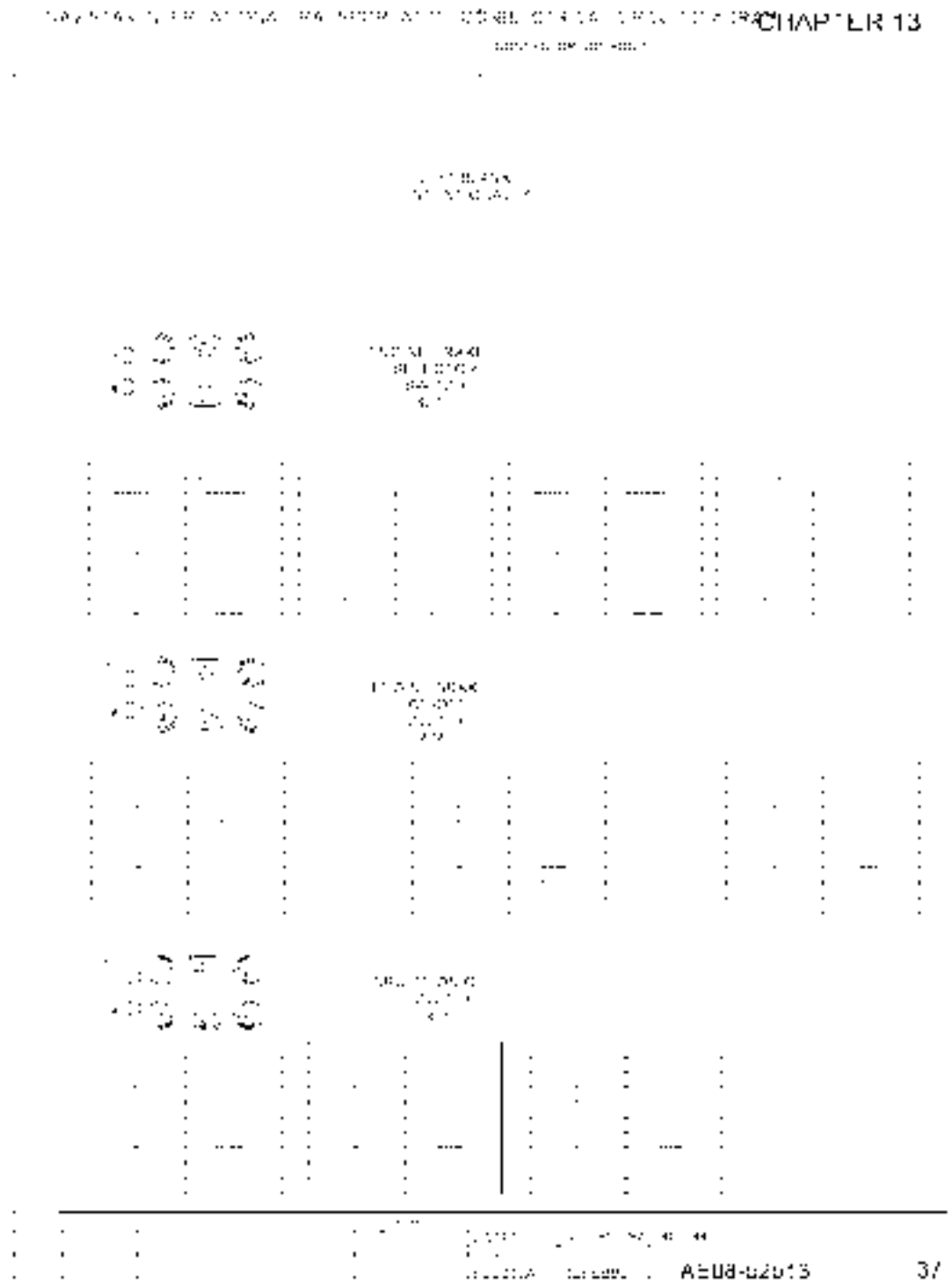


Figure 184 Connector Composites (433), (434), (435)

13.38. CONNECTOR COMPOSITES (436), (437), (440), (441), (442), P. 38

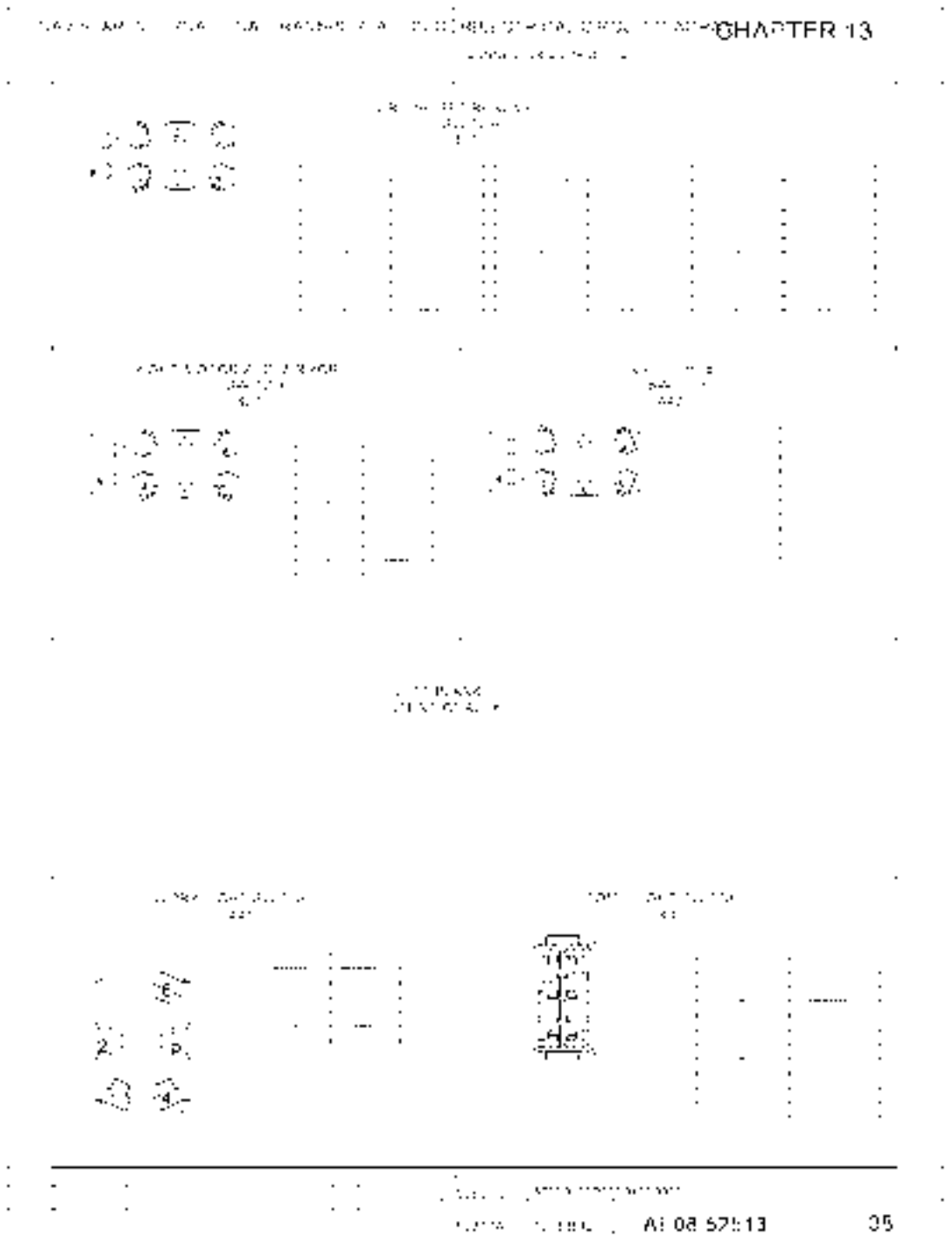


Figure 185 Connector Composites (436), (437), (440), (441), (442)

13.39. CONNECTOR COMPOSITES (453), (454), P. 39

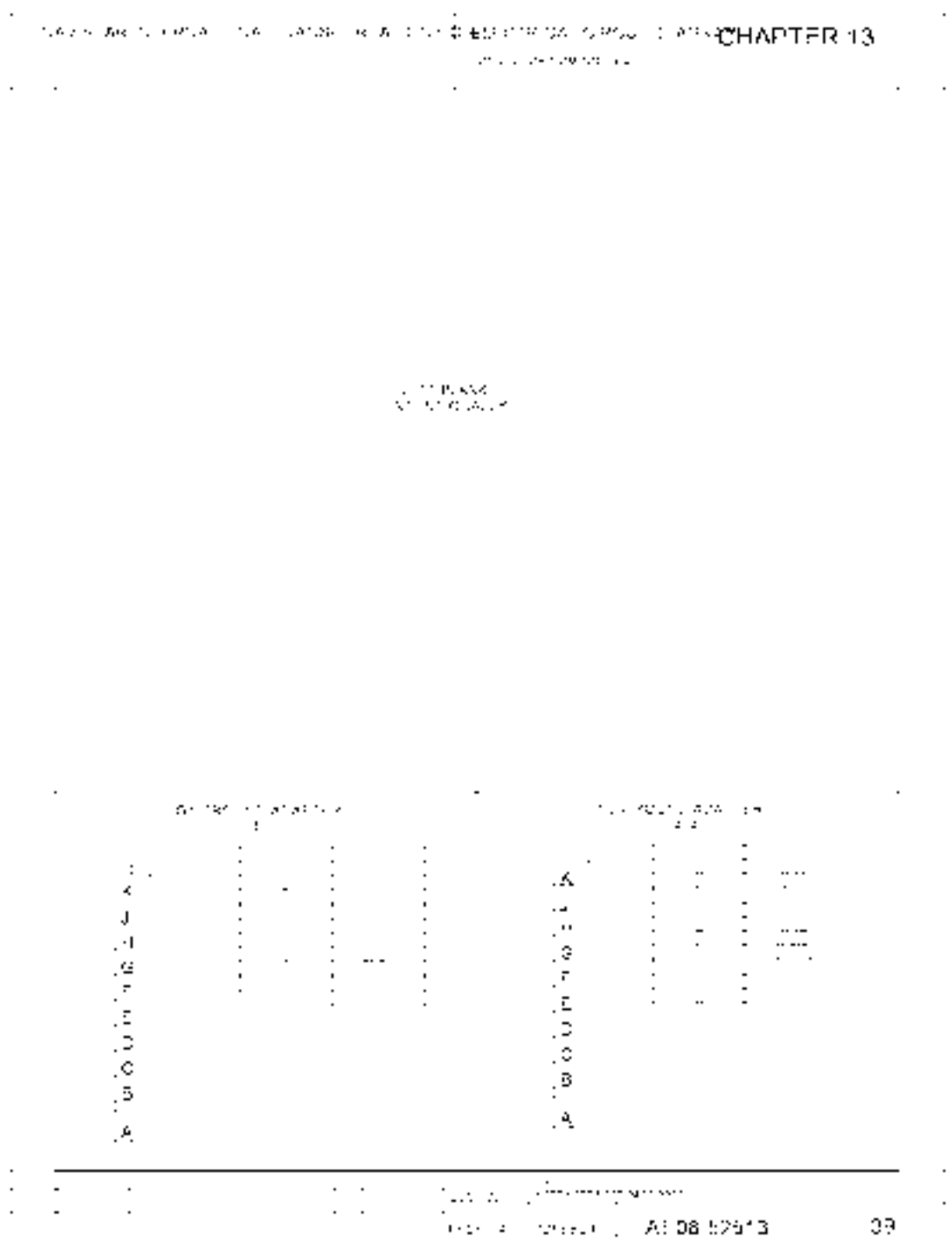


Figure 186 Connector Composites (453), (454)

13.40. CONNECTOR COMPOSITES (455), (456), (460), (462), P. 40

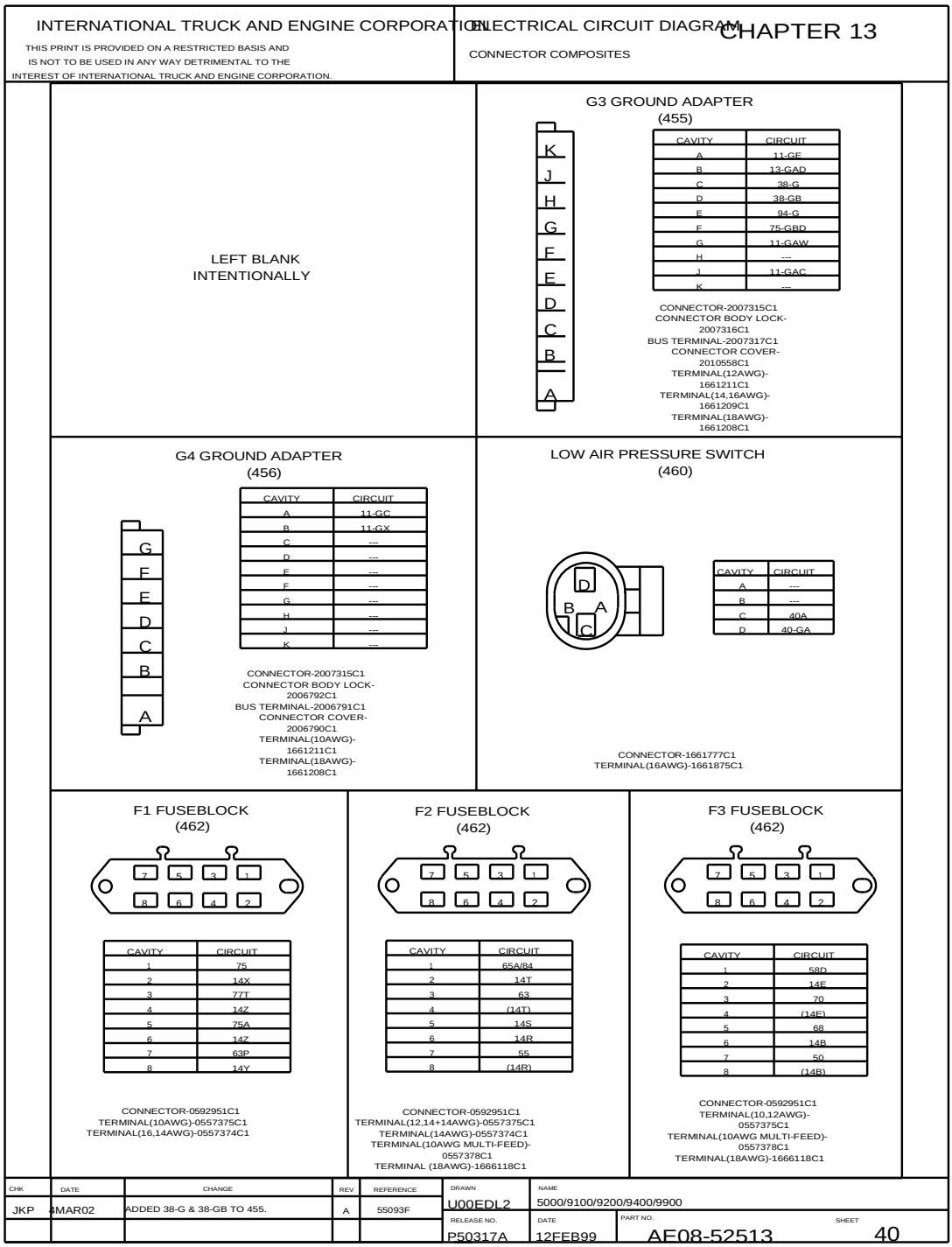


Figure 187 Connector Composites (455), (456), (460), (462)

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

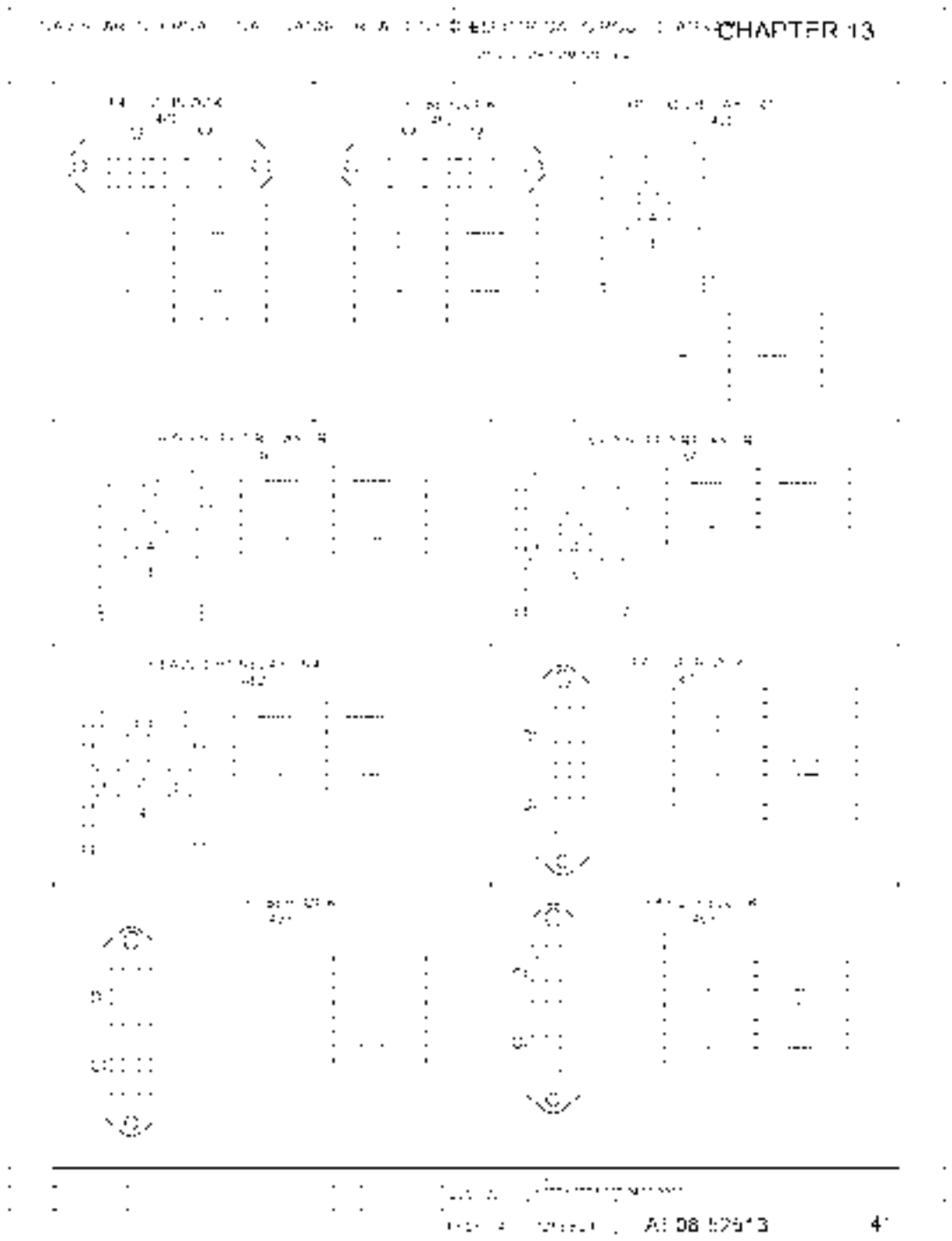


Figure 188 Connector Composites (462), (463)

13.42. CONNECTOR COMPOSITES (463), P. 42

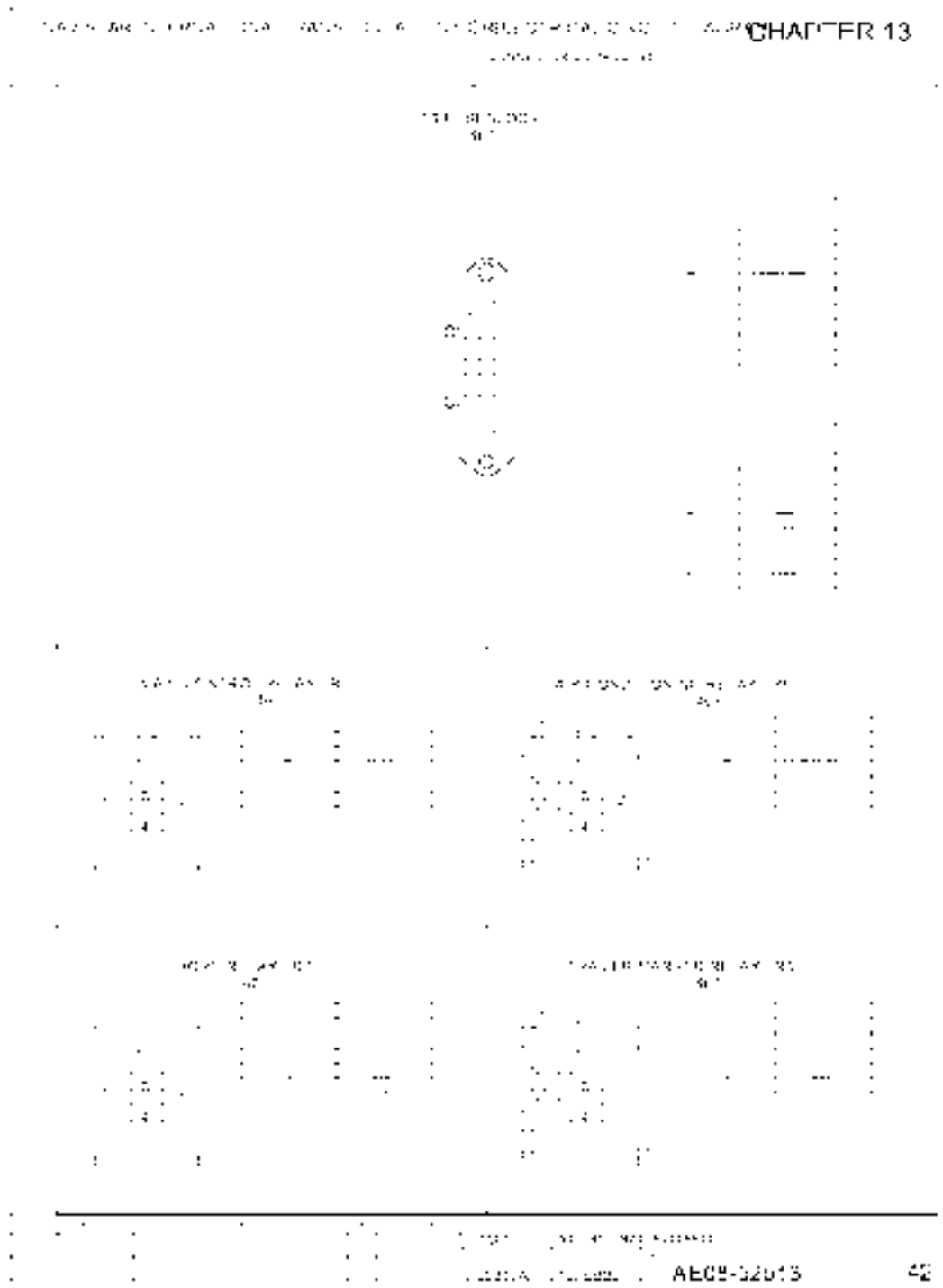


Figure 189 Connector Composites (463)

13.43. CONNECTOR COMPOSITES (464), P. 43

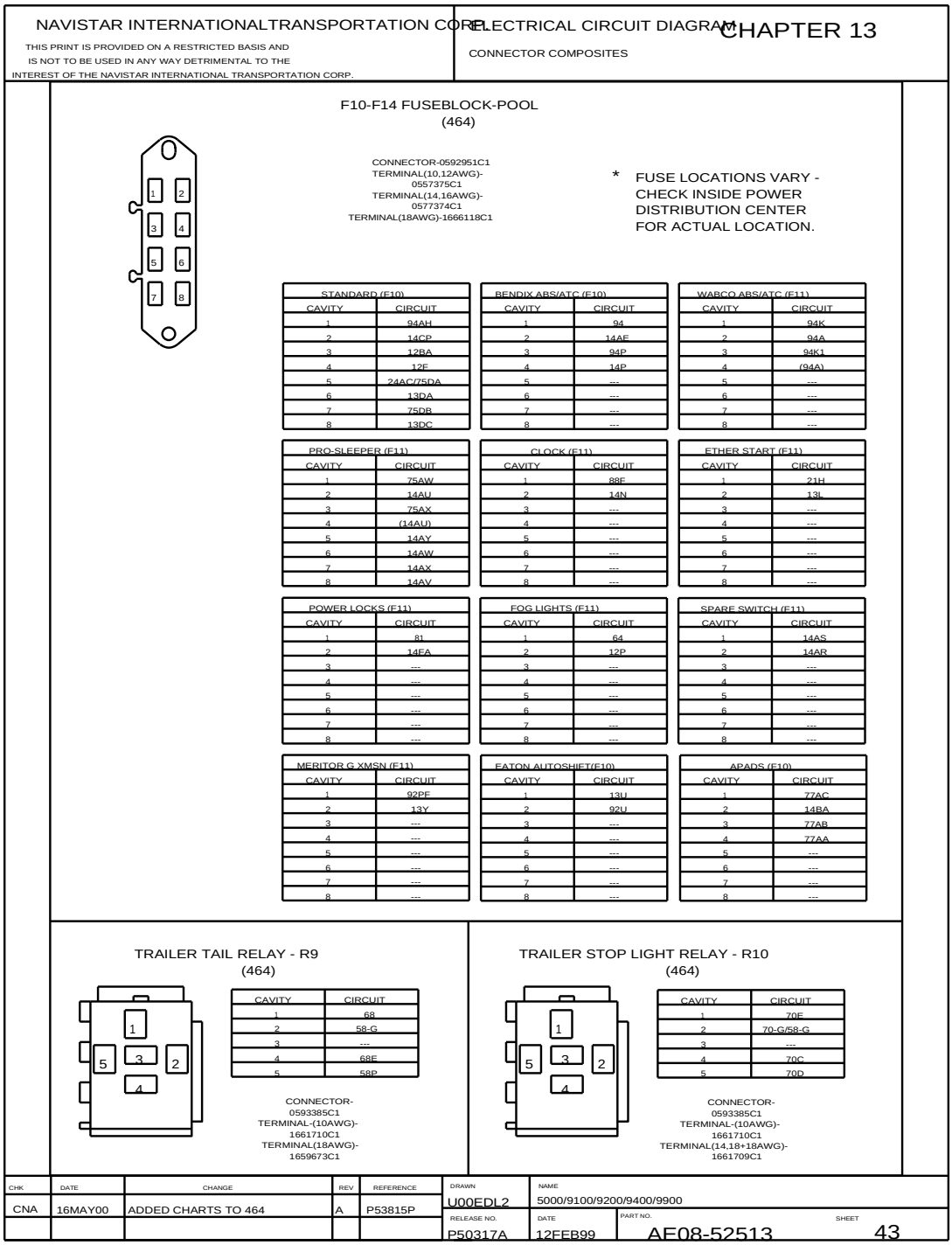


Figure 190 Connector Composites (464)

13.44. CONNECTOR COMPOSITES (464), (465), (466), (468), (470), (1000), P. 44

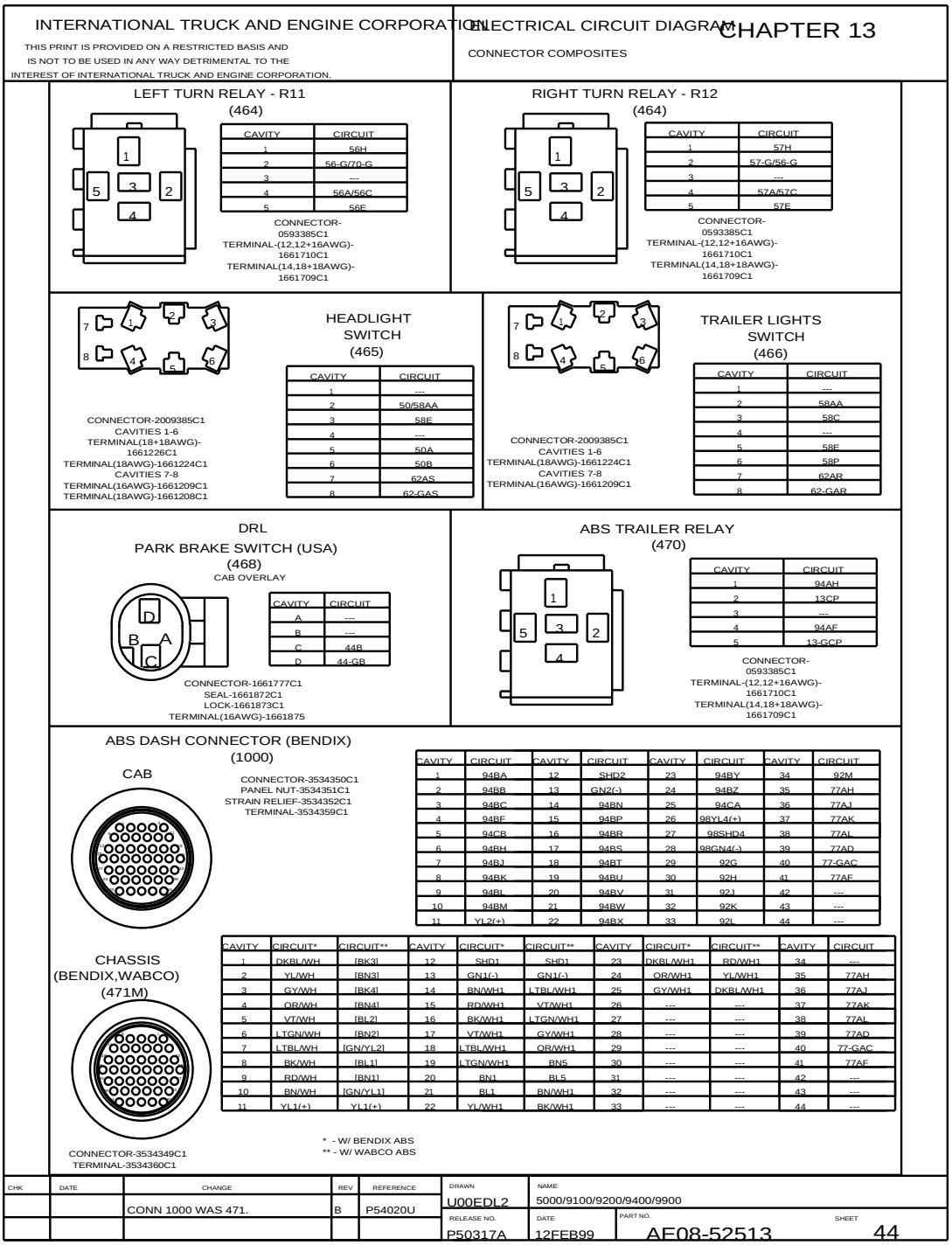


Figure 191 Connector Composites (464), (465), (466), (468), (470), (1000)

13.45. CONNECTOR COMPOSITES (474), (480), (481), (482), (483), (489), P. 45

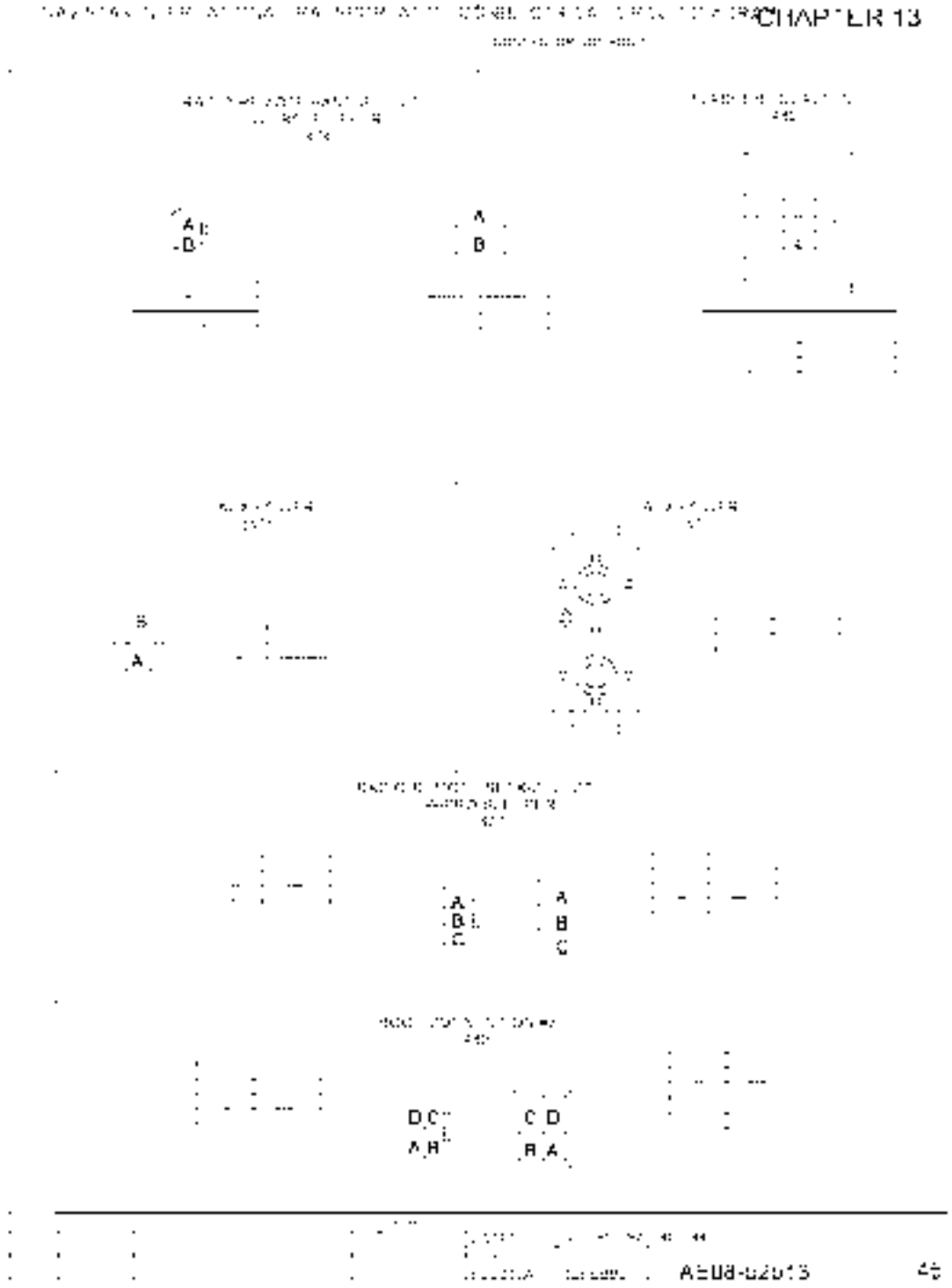


Figure 192 Connector Composites (474), (480), (481), (482), (483), (489)

13.46. CONNECTOR COMPOSITES (491), (492), (494), (495), (497), (498), (499), (501), P. 46

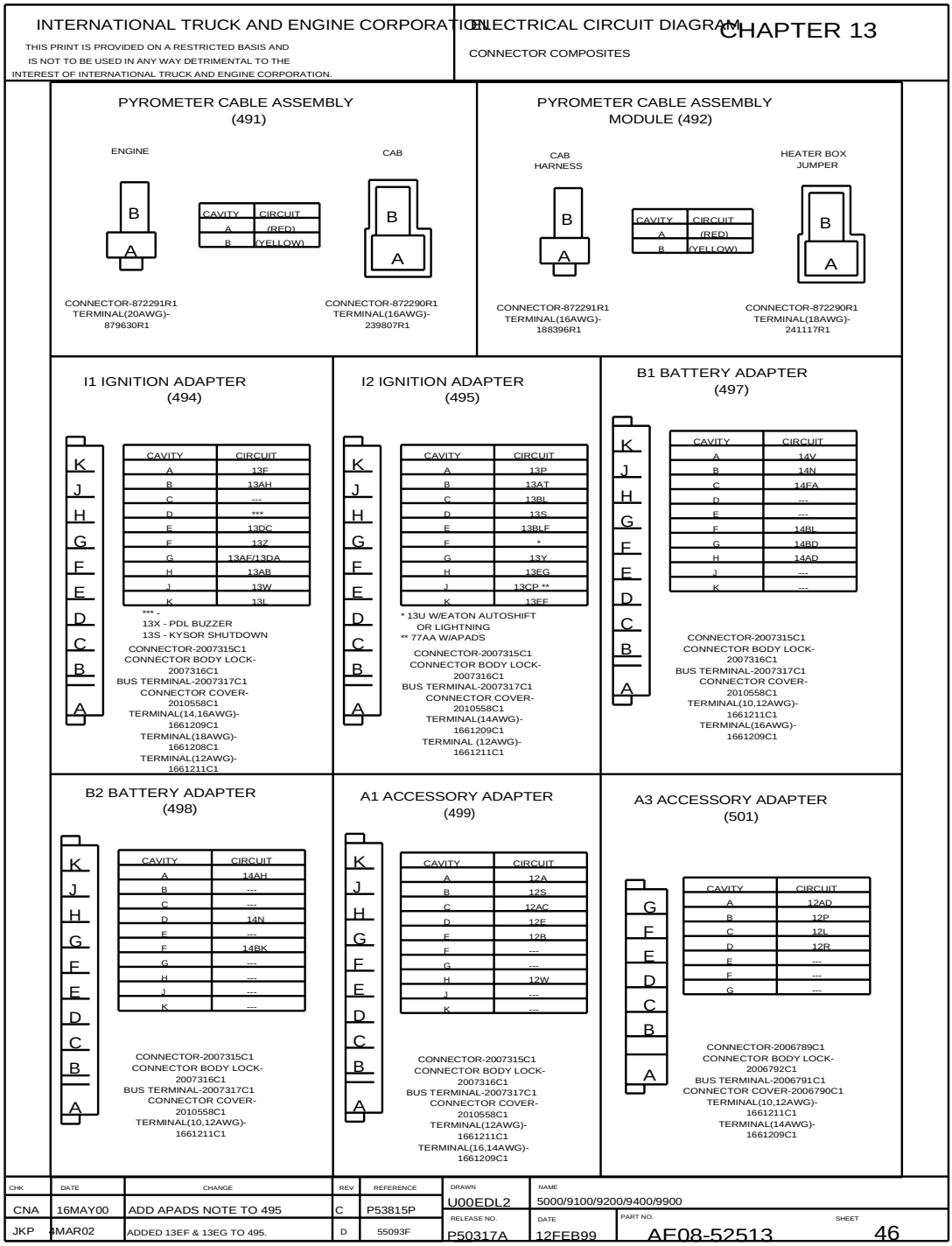


Figure 193 Connector Composites (491), (492), (494), (495), (497), (498), (499), (501)

13.47. CONNECTOR COMPOSITES (502), (503), (504), (506), P. 47

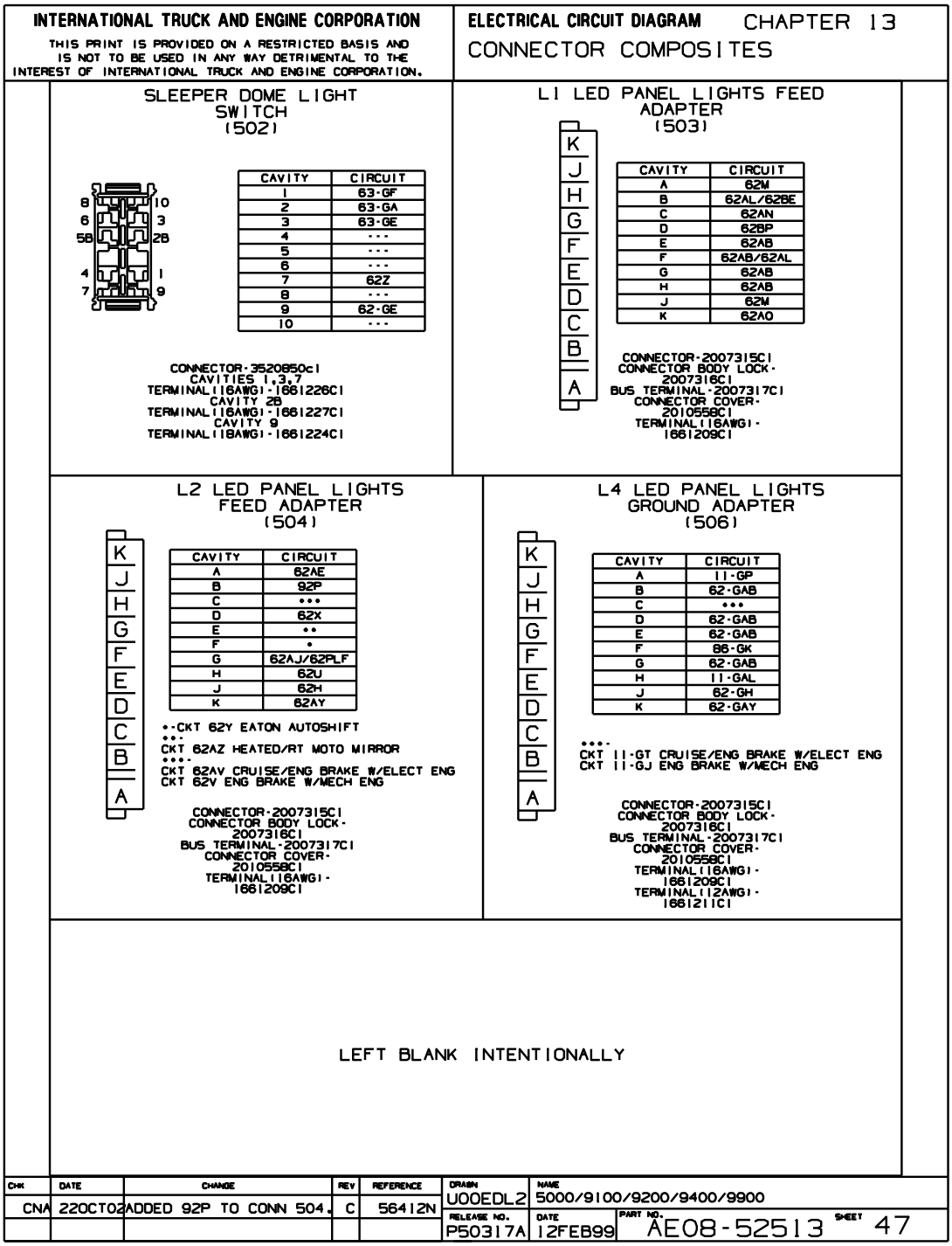


Figure 194 Connector Composites (502), (503), (504), (506)

13.48. CONNECTOR COMPOSITES (509), (511), (512), (513), (514), (515), P. 48

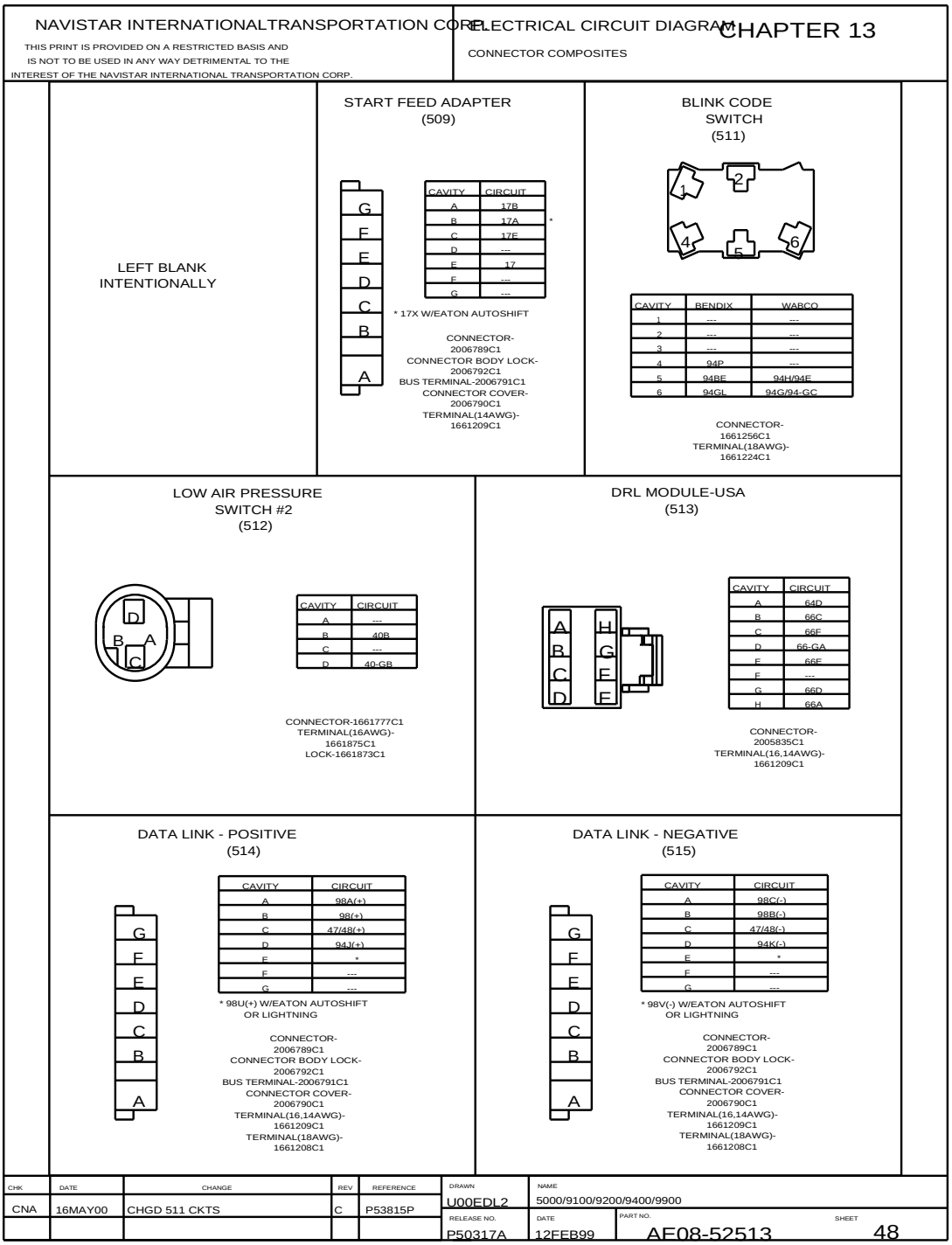


Figure 195 Connector Composites (509), (511), (512), (513), (514), (515)

13.49. CONNECTOR COMPOSITES (517), (520), (521), (522), (523), (524), (525), (526), P. 49

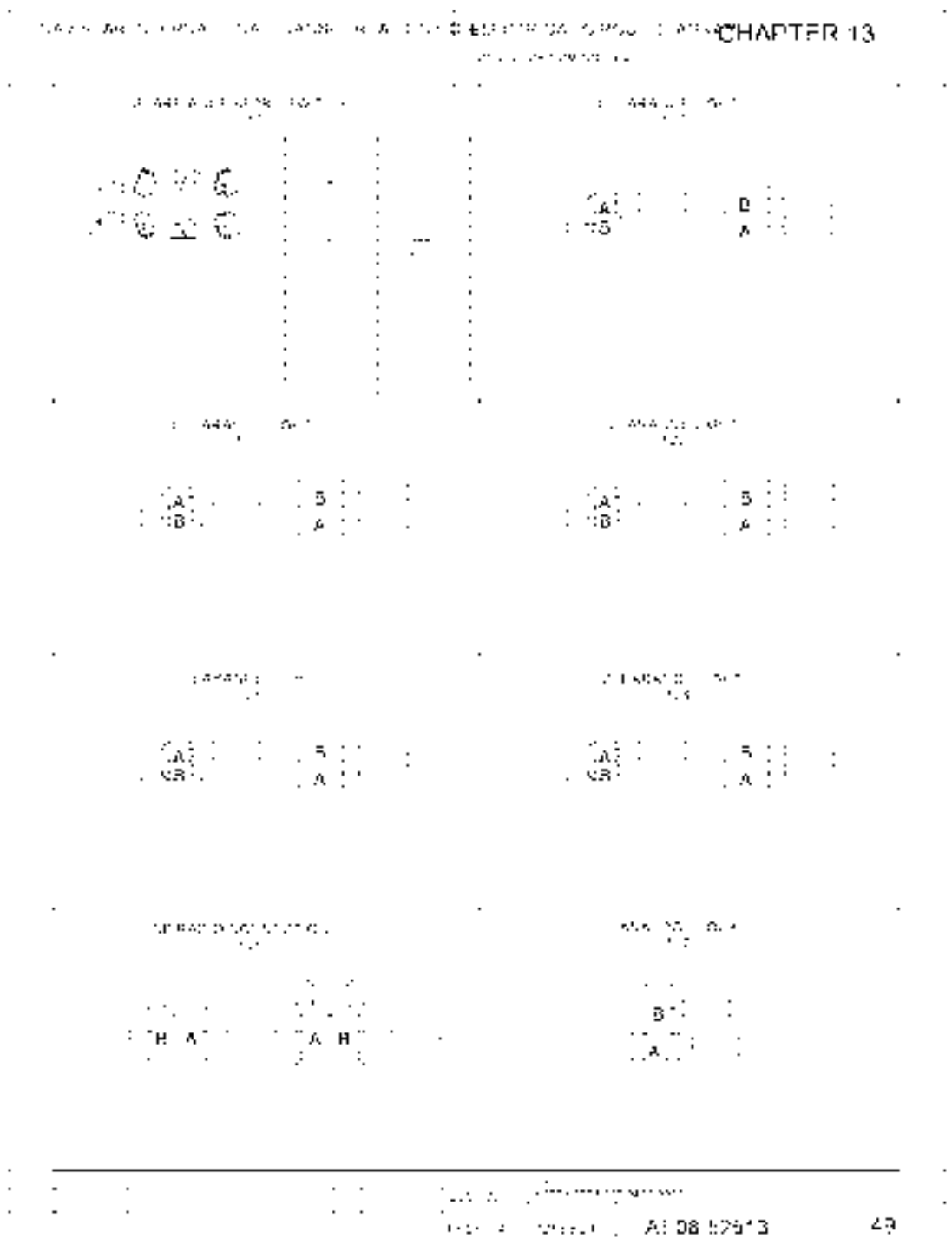


Figure 196 Connector Composites (517), (520), (521), (522), (523), (524), (525), (526)

13.50. CONNECTOR COMPOSITES (528), (529), (530), (531), (550), (560), (562), (574), P. 50

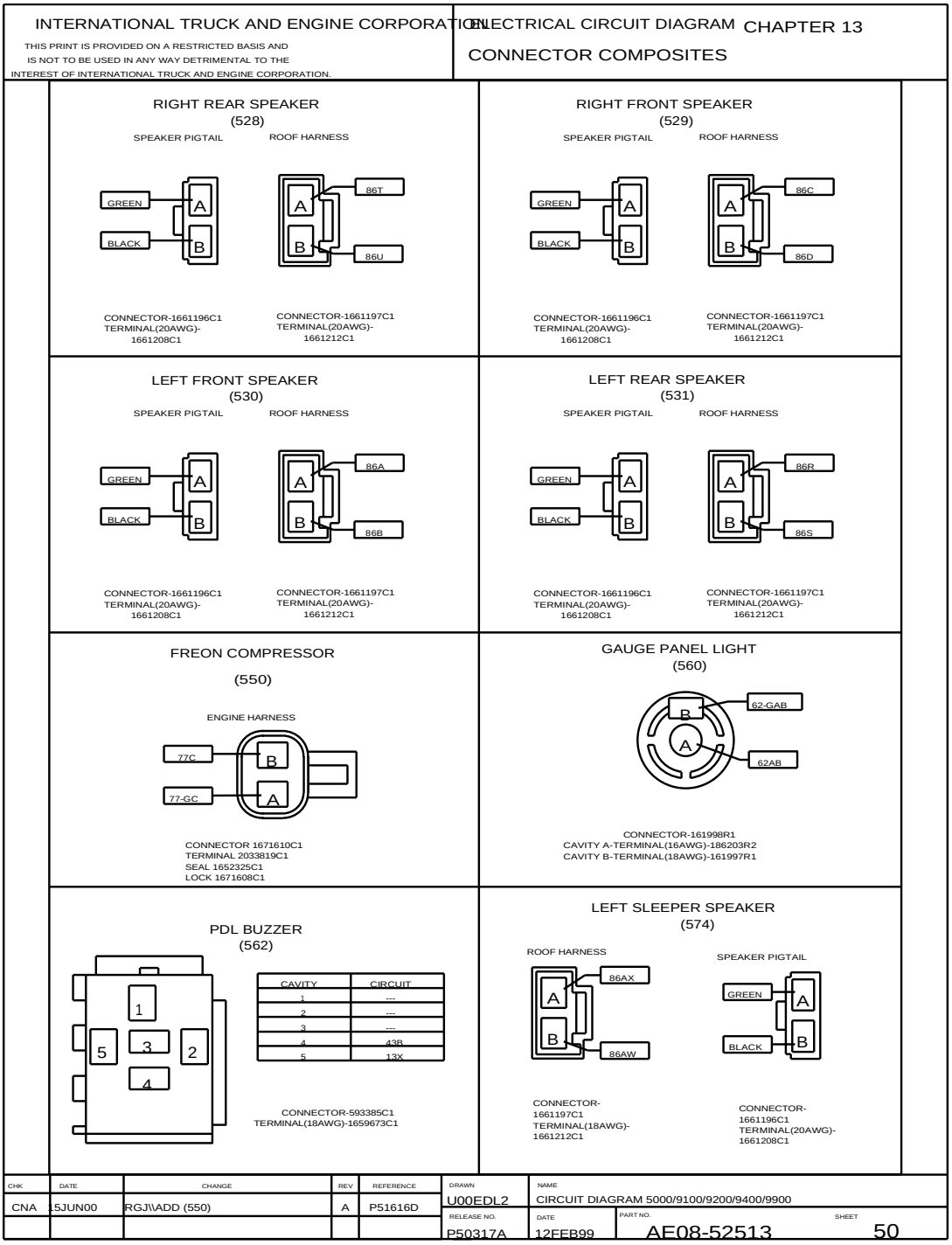


Figure 197 Connector Composites (528), (529), (530), (531), (550), (560), (562), (574)

13.51. CONNECTOR COMPOSITES (575), (576), (577), (578), (579), (582), P. 51

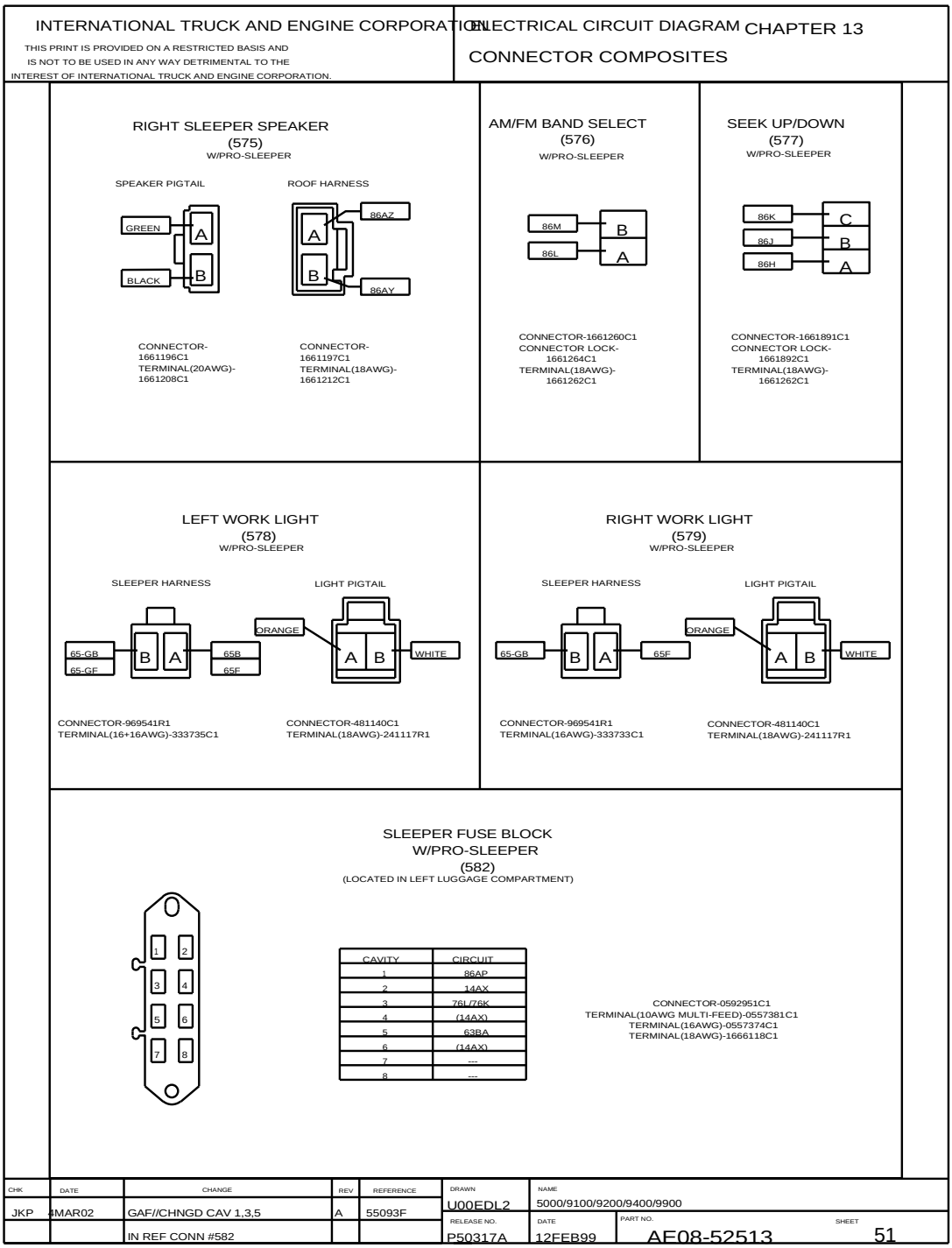


Figure 198 Connector Composites (575), (576), (577), (578), (579), (582)

13.52. CONNECTOR COMPOSITES (584), (585), (587), P. 52

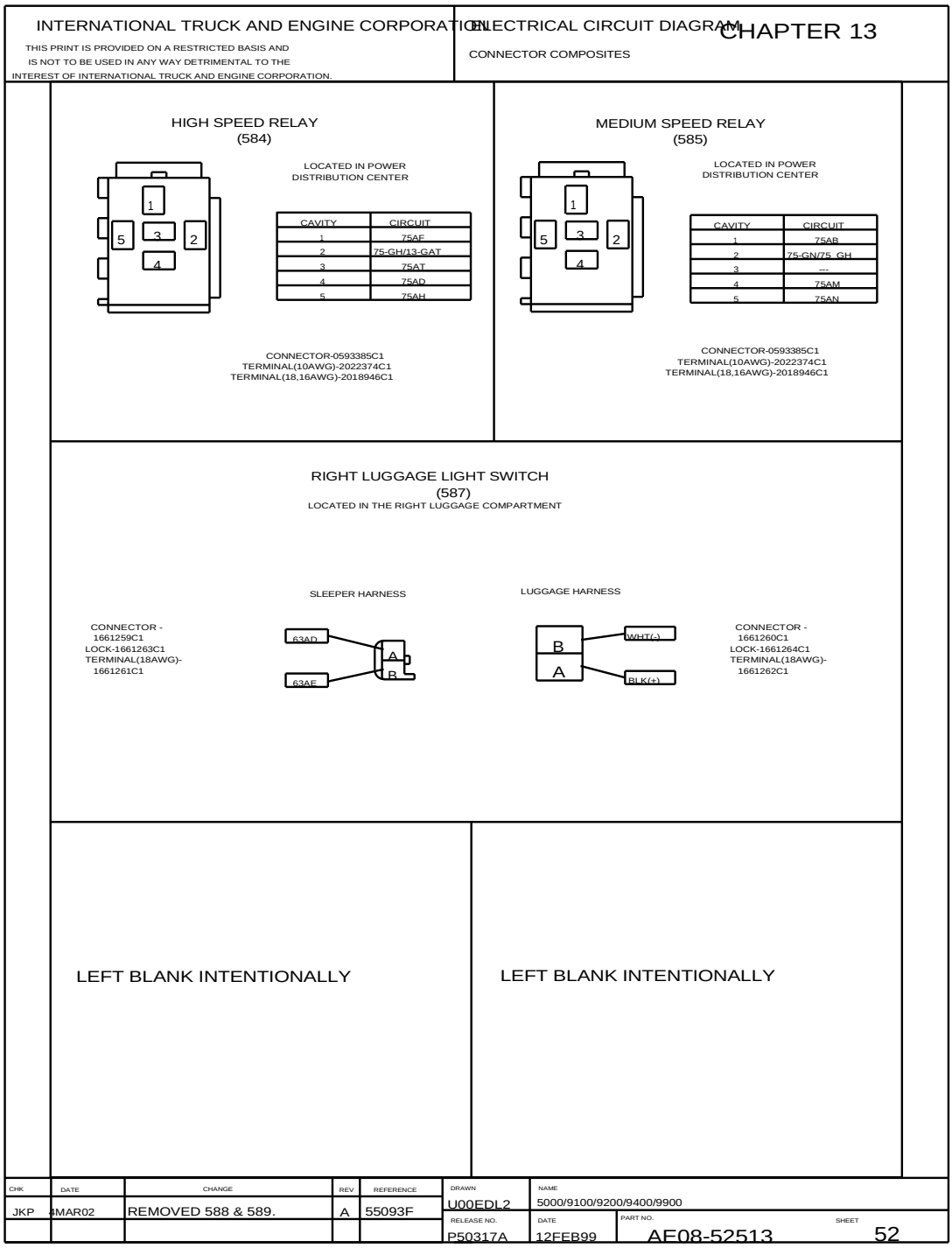


Figure 199 Connector Composites (584), (585), (587)

13.53. CONNECTOR COMPOSITES (592), (592F), (593), (594), (600), P. 53

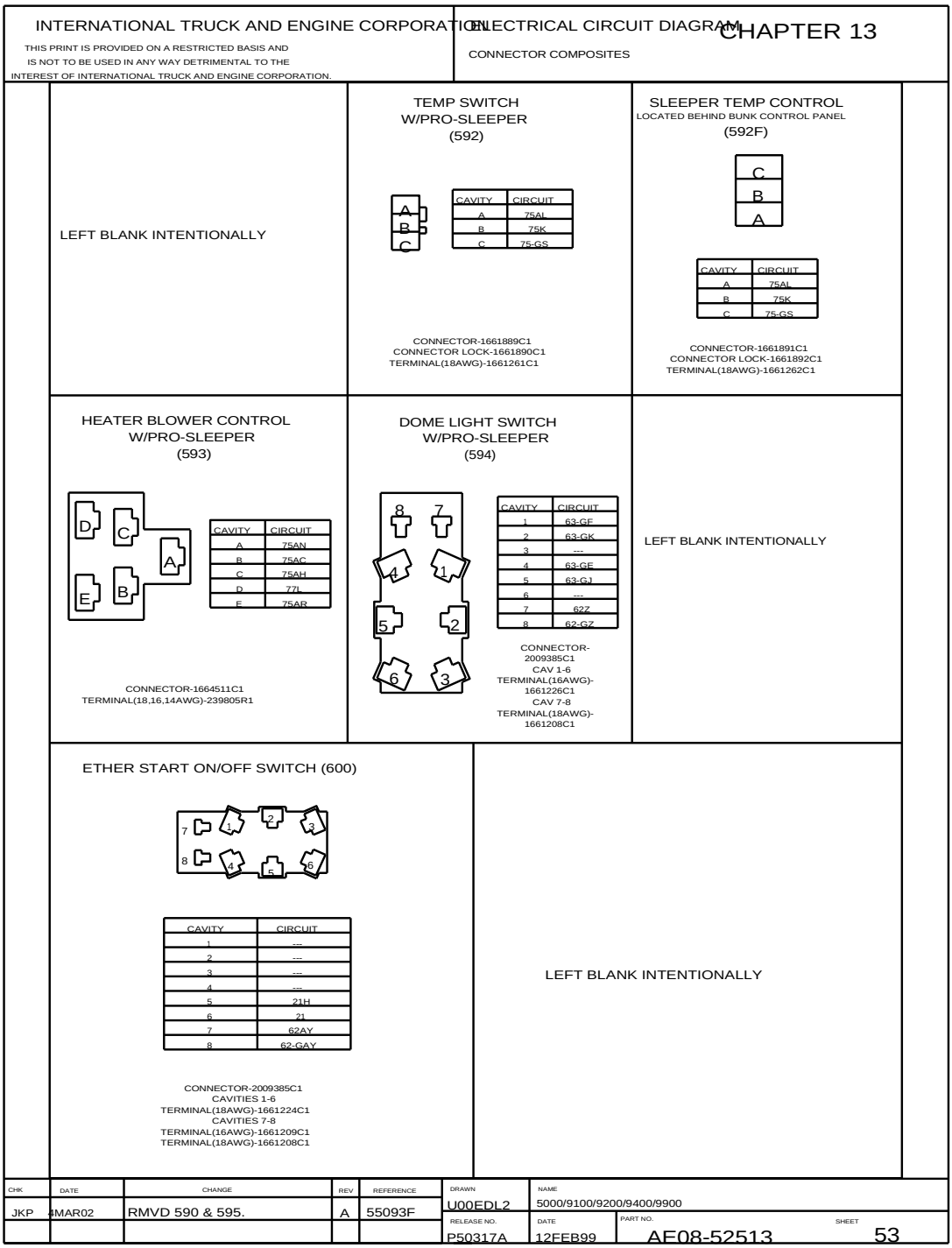


Figure 200 Connector Composites (592), (592F), (593), (594), (600)

13.54. CONNECTOR COMPOSITES (603), (604), (605), (606), (607), (610), (611), P. 54

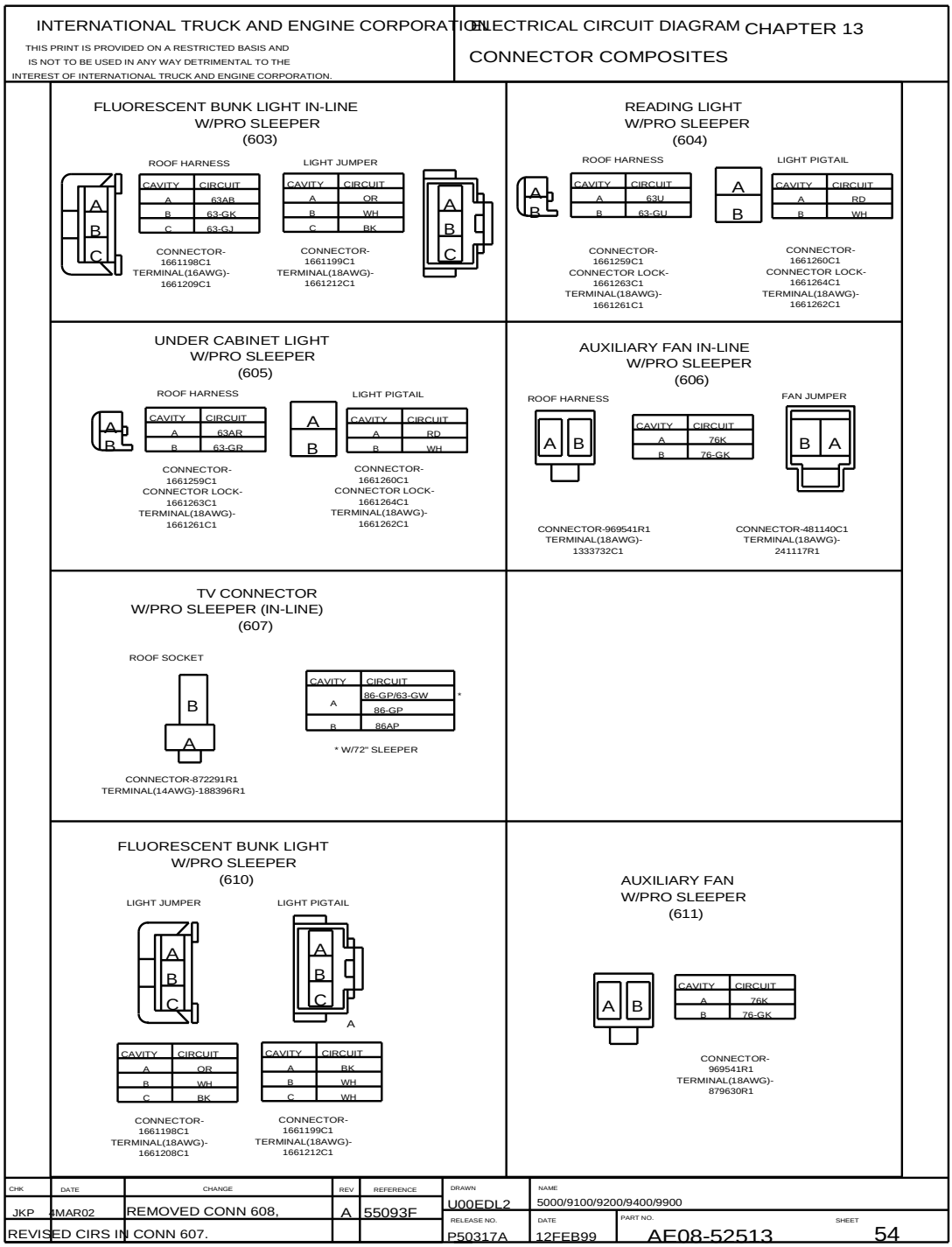


Figure 201 Connector Composites (603), (604), (605), (606), (607), (610), (611)

13.55. CONNECTOR COMPOSITES (612), (613), (640), (642), (643), (659), P. 55

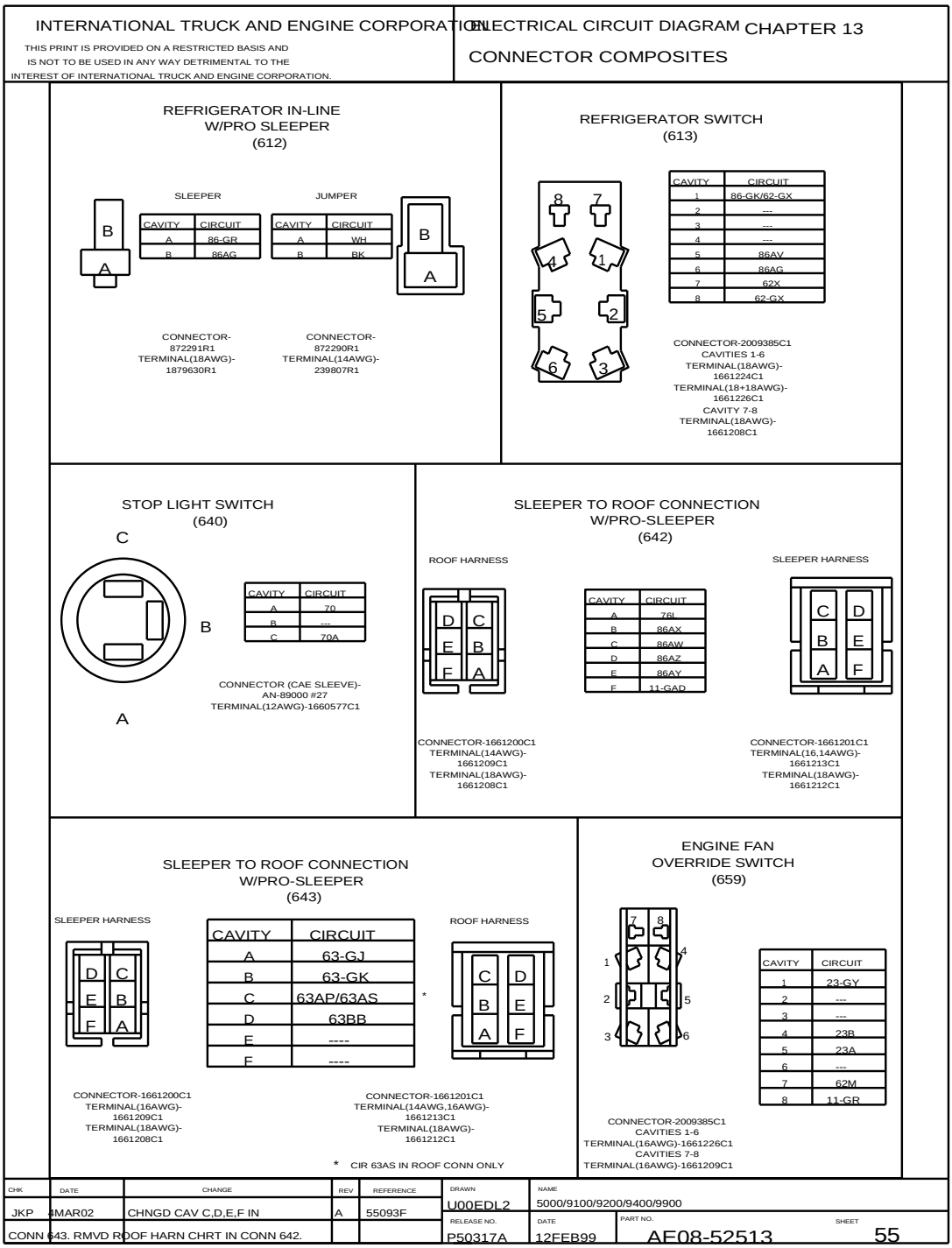


Figure 202 Connector Composites (612), (613), (640), (642), (643), (659)

13.56. CONNECTOR COMPOSITES (662), (675), (676), (690), P. 56

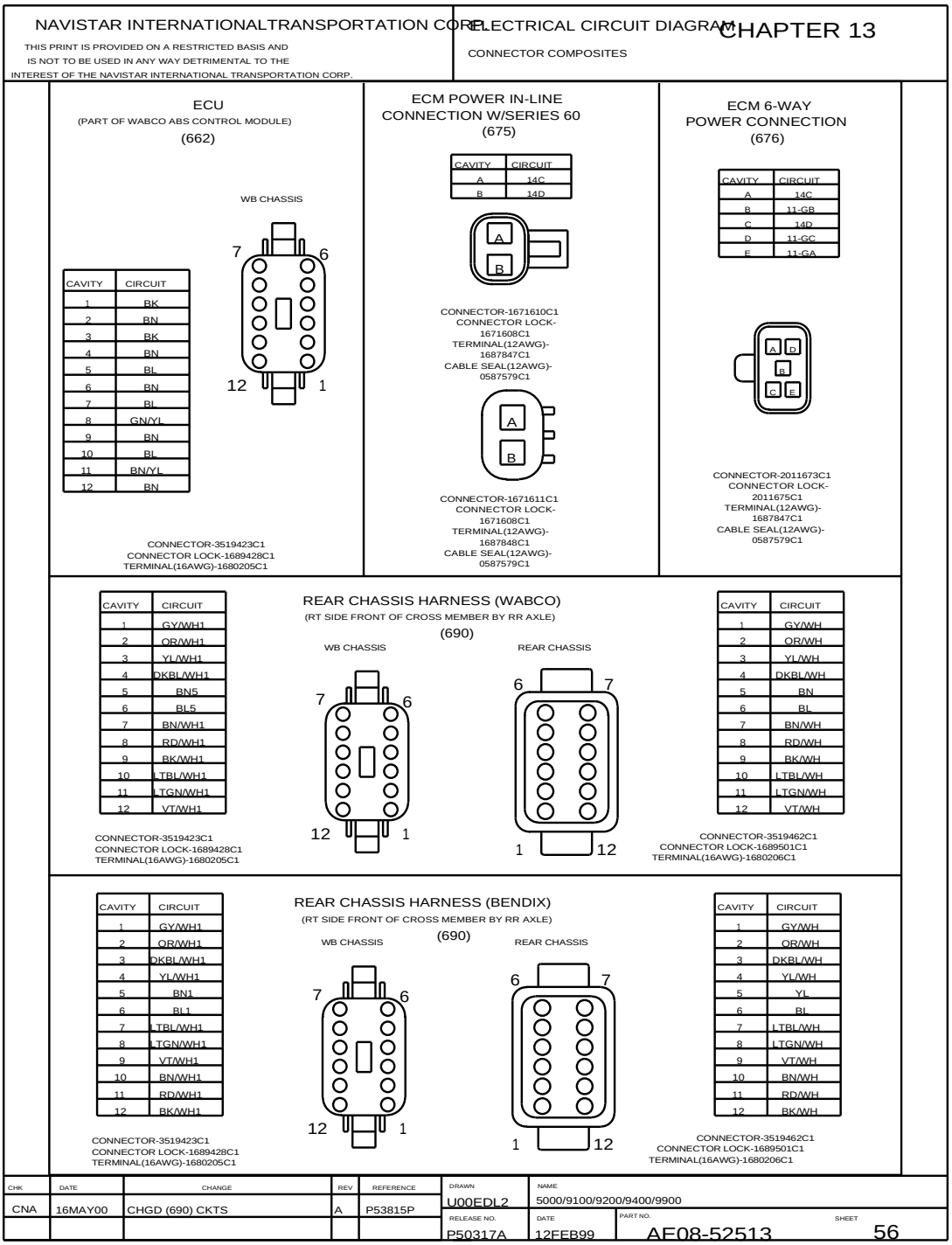


Figure 203 Connector Composites (662), (675), (676), (690)

13.57. CONNECTOR COMPOSITES (720), (753), (755), (766), (767), (768), P. 57

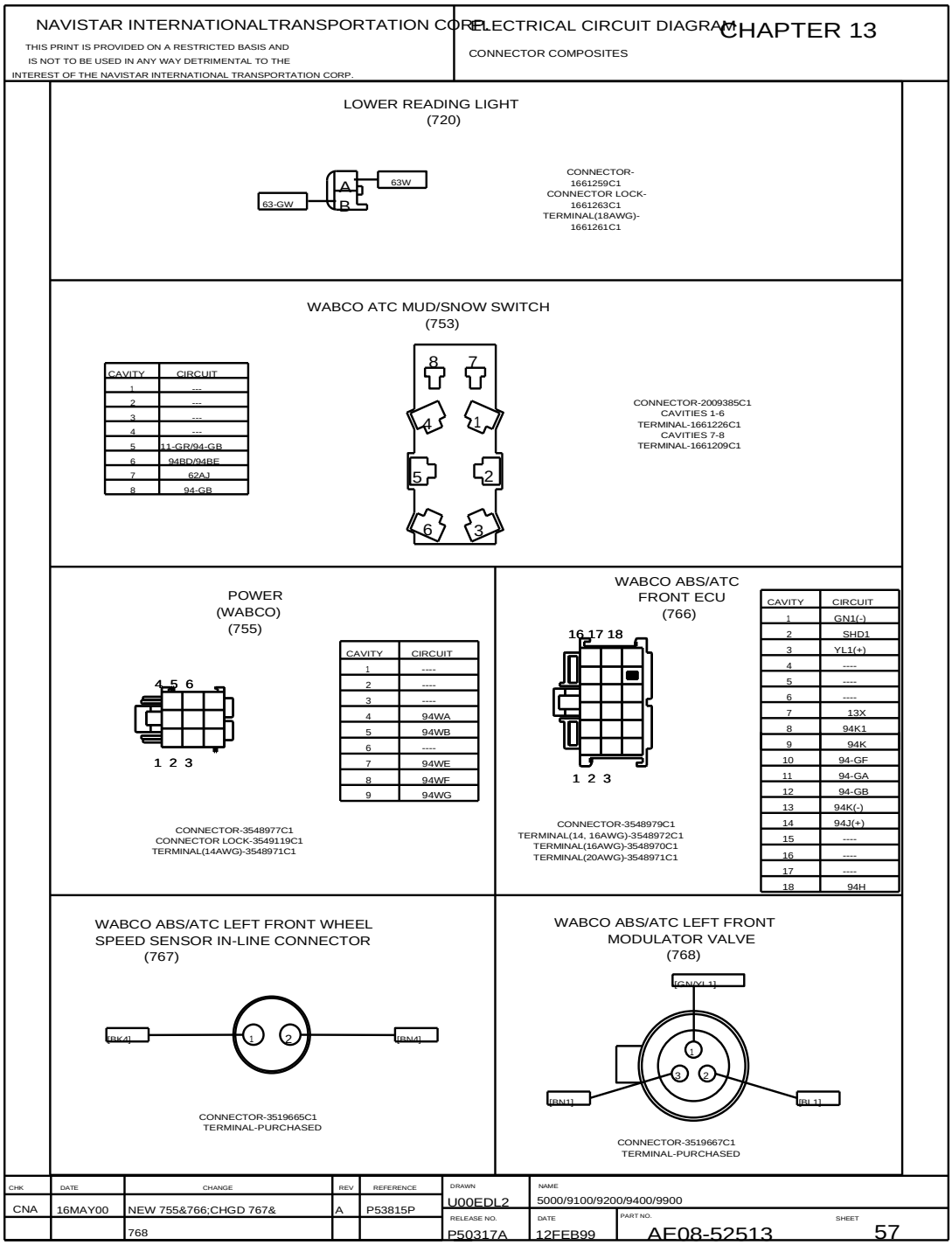


Figure 204 Connector Composites (720), (753), (755), (766), (767), (768)

13.58. CONNECTOR COMPOSITES (769), (770), (771), (774), (775), (776), (777), (778), (789), P. 58

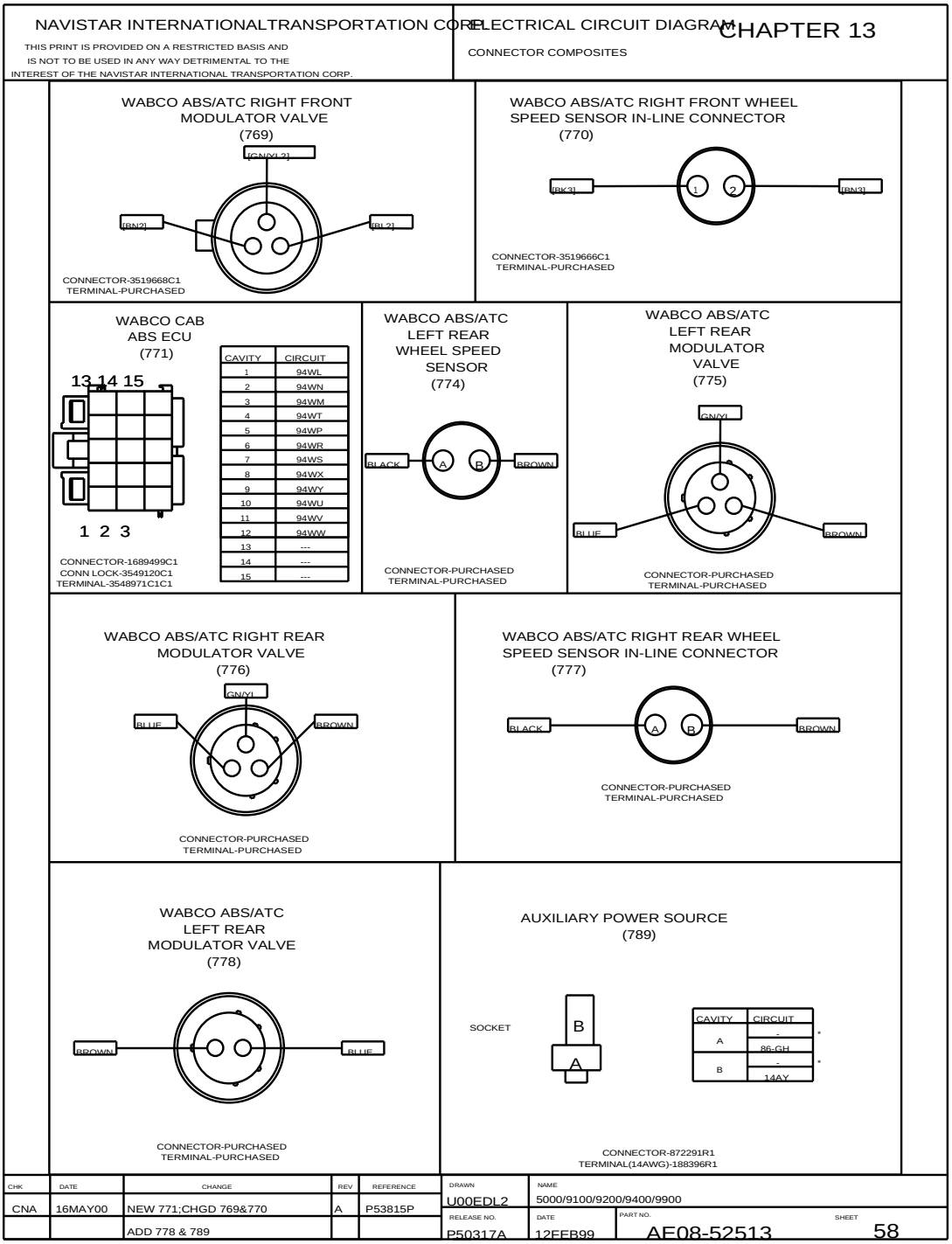


Figure 205 Connector Composites (769), (770), (771), (774), (775), (776), (777), (778), (789)

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

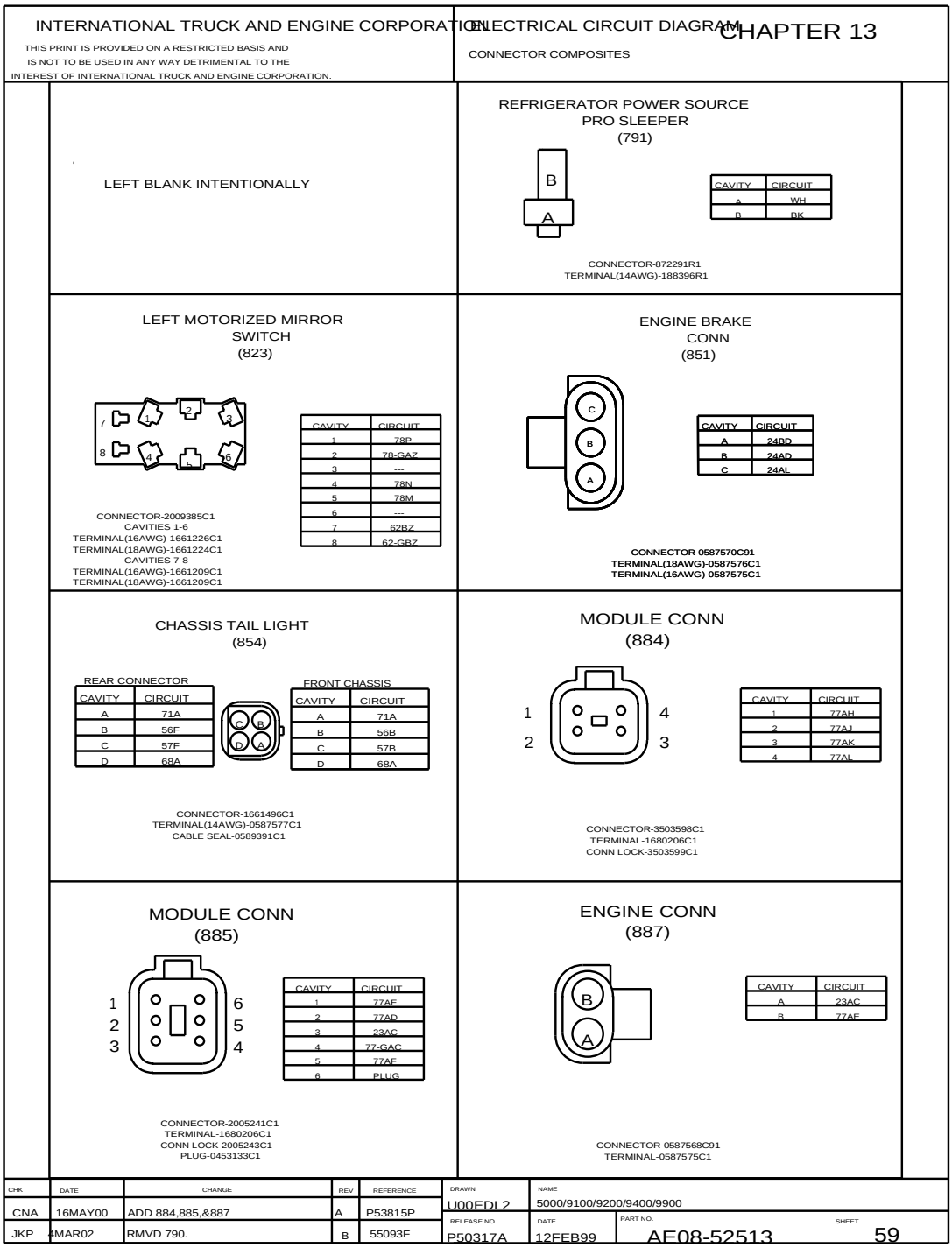
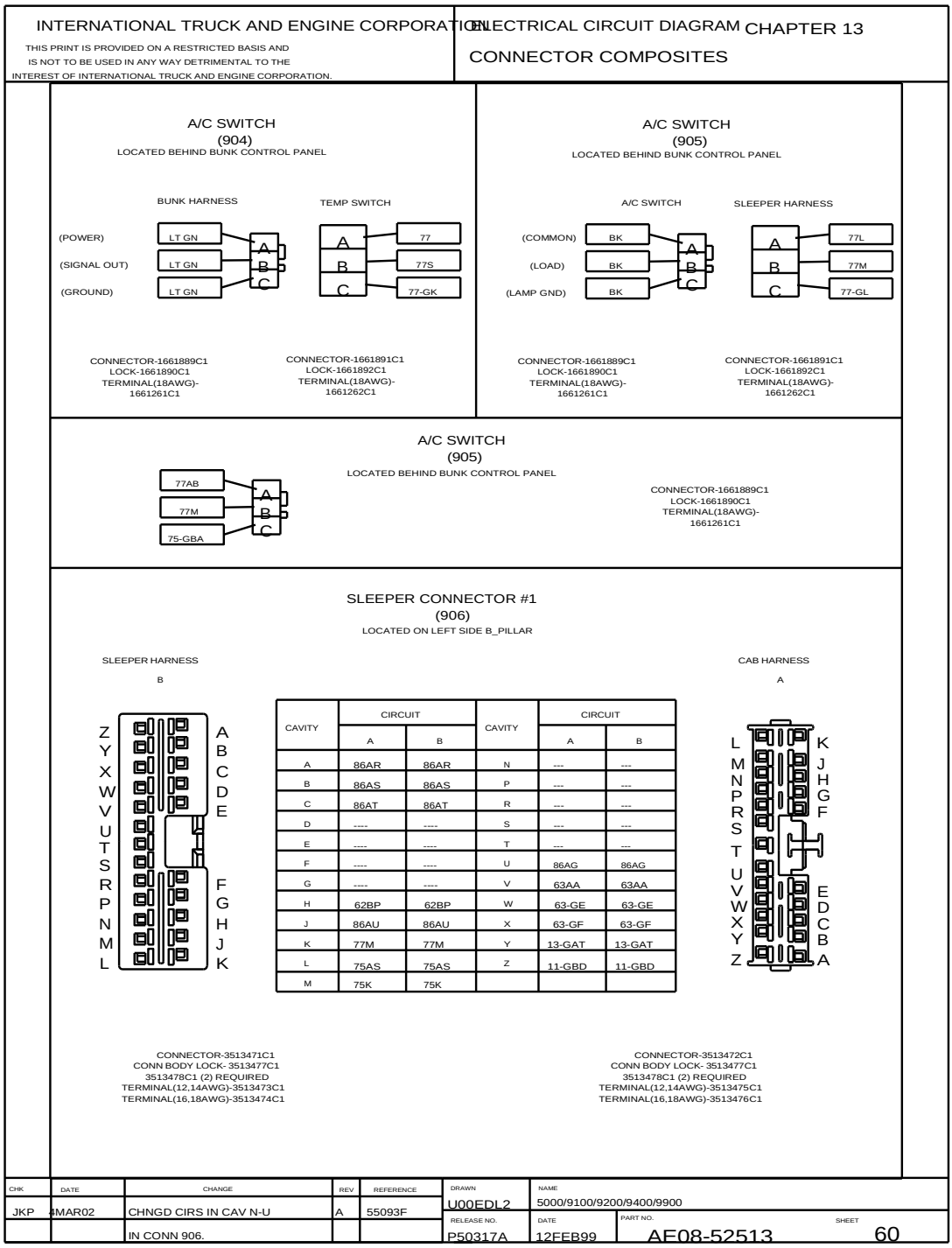


Figure 206 Connector Composites (791), (823), (851), (854), (884), (885), (887)

13.60. CONNECTOR COMPOSITES (904), (905), (906), P. 60



CAVITY	CIRCUIT A	CIRCUIT B	CAVITY	CIRCUIT A	CIRCUIT B
A	86AR	86AR	N	---	---
B	86AS	86AS	P	---	---
C	86AT	86AT	R	---	---
D	----	----	S	---	---
E	----	----	T	---	---
F	----	----	U	86AG	86AG
G	----	----	V	63AA	63AA
H	62BP	62BP	W	63-GE	63-GE
J	86AU	86AU	X	63-GF	63-GF
K	77M	77M	Y	13-GAT	13-GAT
L	75AS	75AS	Z	11-GBD	11-GBD
M	75K	75K			

Figure 207 Connector Composites (904), (905), (906)

13.61. CONNECTOR COMPOSITES (907), (909), (912), (913), (914), (915), (916), (918), P. 61

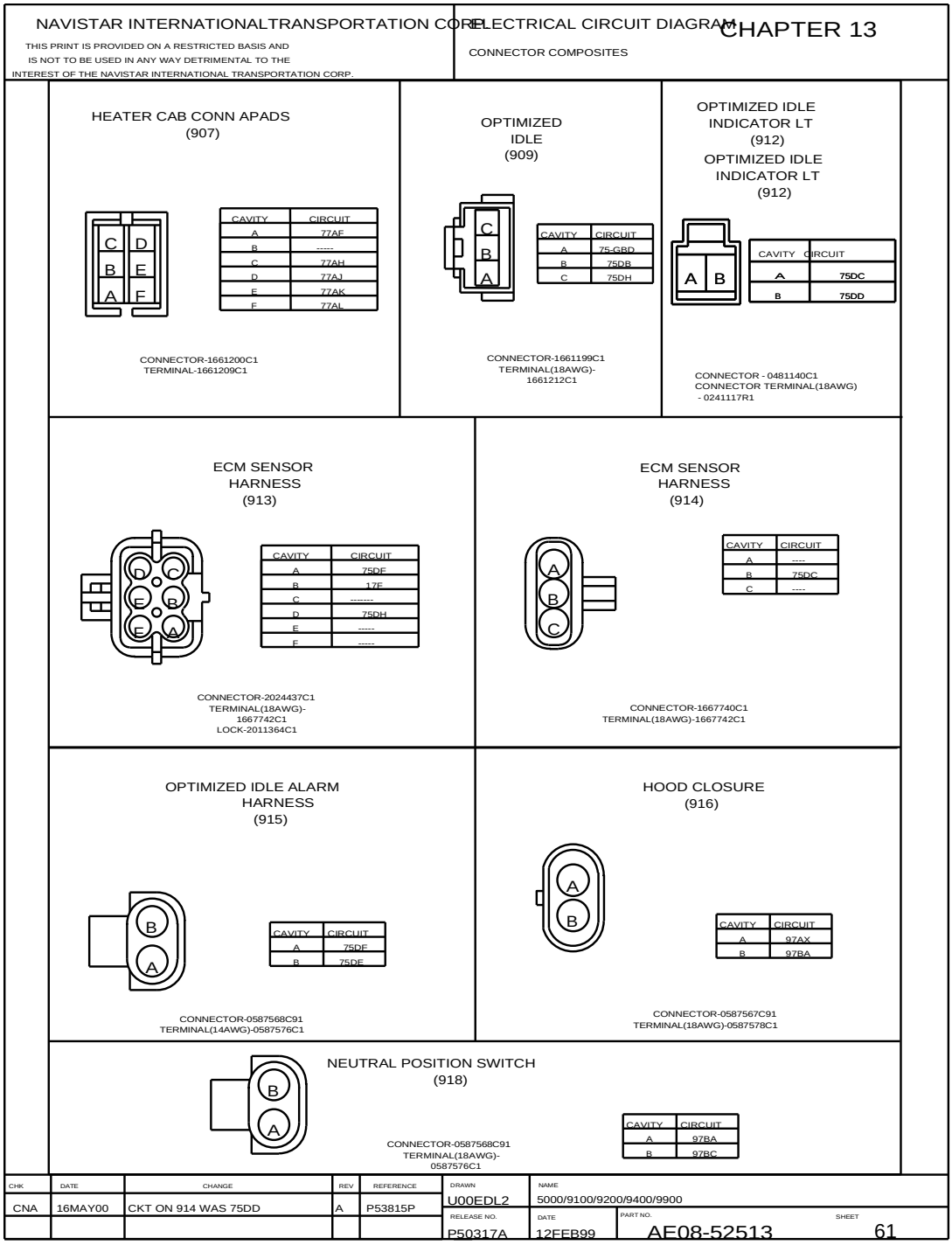


Figure 208 Connector Composites (907), (909), (912), (913), (914), (915), (916), (918)

13.62. CONNECTOR COMPOSITES (922), (923), (925), P. 62

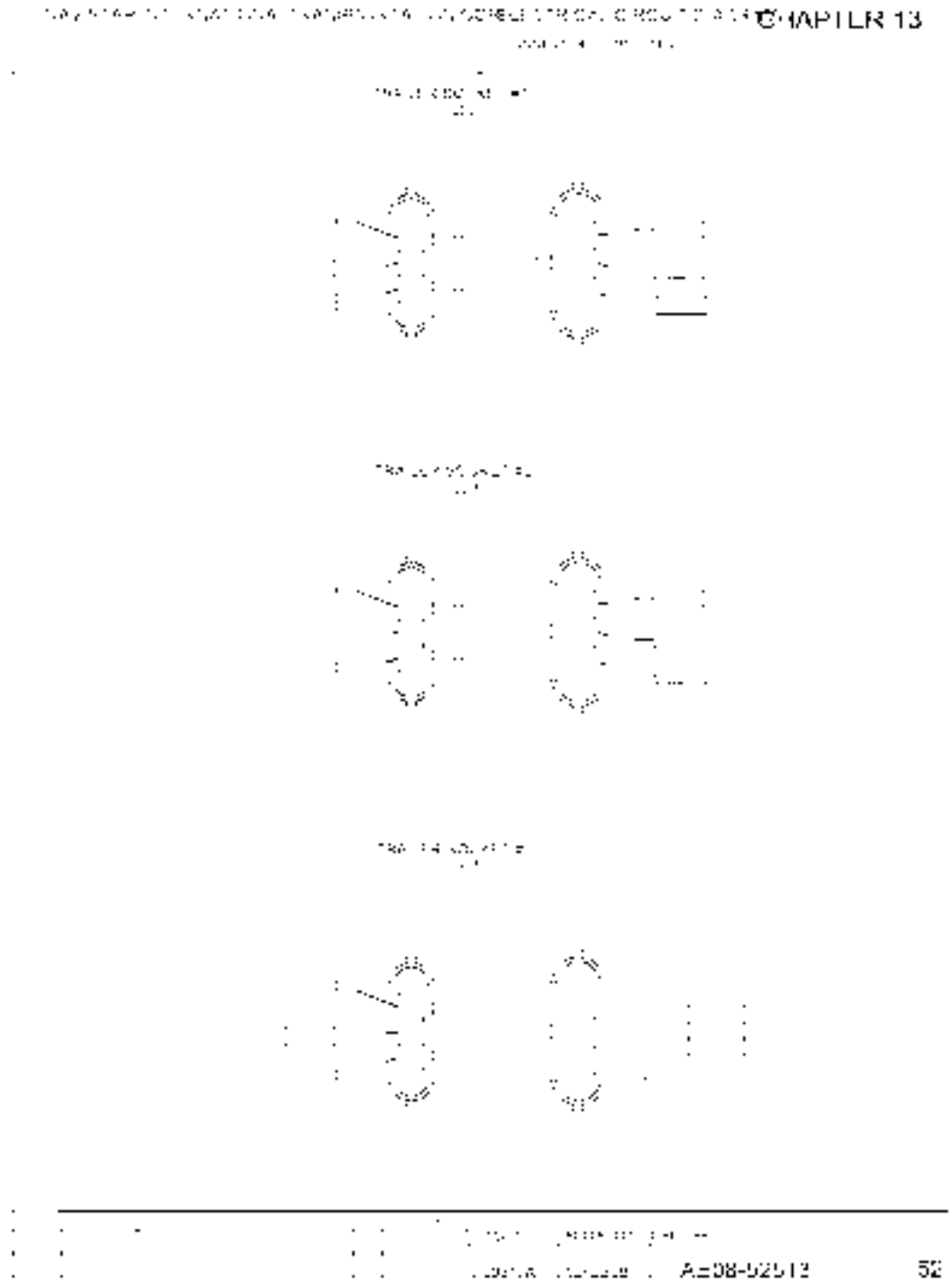


Figure 209 Connector Composites (922), (923), (925)

13.63. CONNECTOR COMPOSITES (926), (930), (935), (936), (937), P. 63

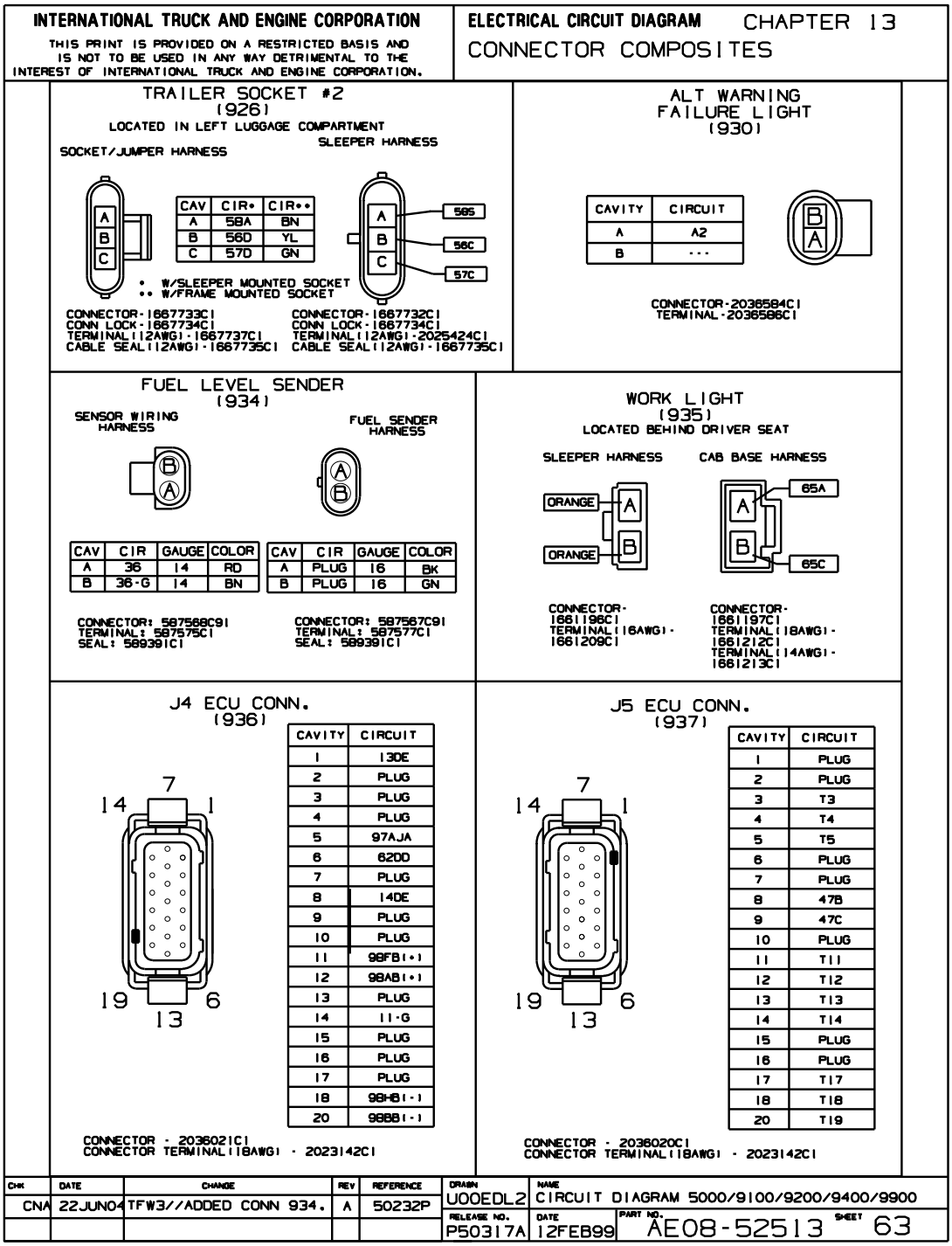


Figure 210 Connector Composites (926), (930), (935), (936), (937)

13.64. CONNECTOR COMPOSITES (938), (939), (940), (941), (942), P. 64

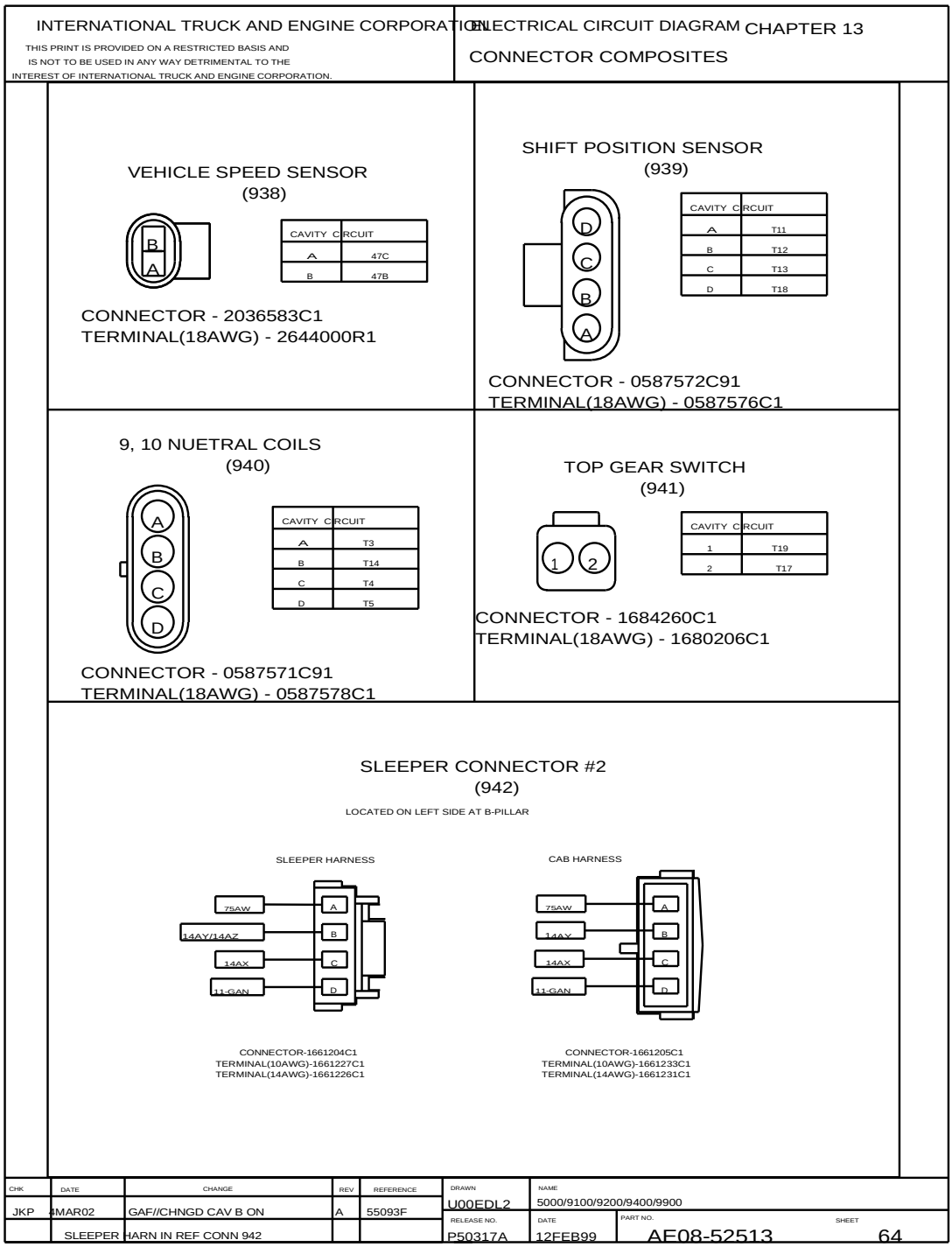


Figure 211 Connector Composites (938), (939), (940), (941), (942)

13.65. CONNECTOR COMPOSITES (955), (956), (962), (963), (992), (993), (994), P. 65

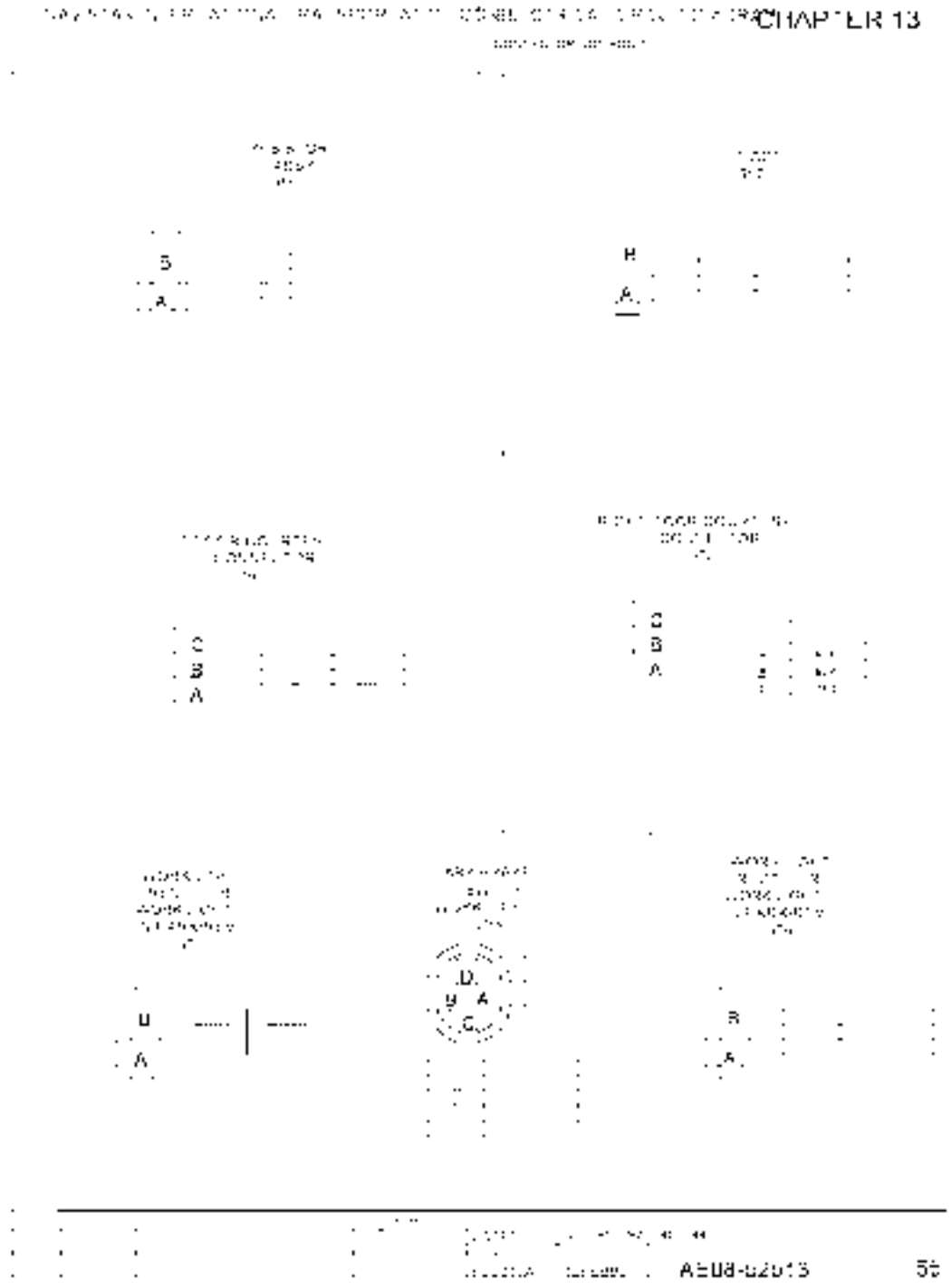


Figure 212 Connector Composites (955), (956), (962), (963), (992), (993), (994)

13.66. CONNECTOR COMPOSITES (995–999), (1000), (1033), (1034), P. 66

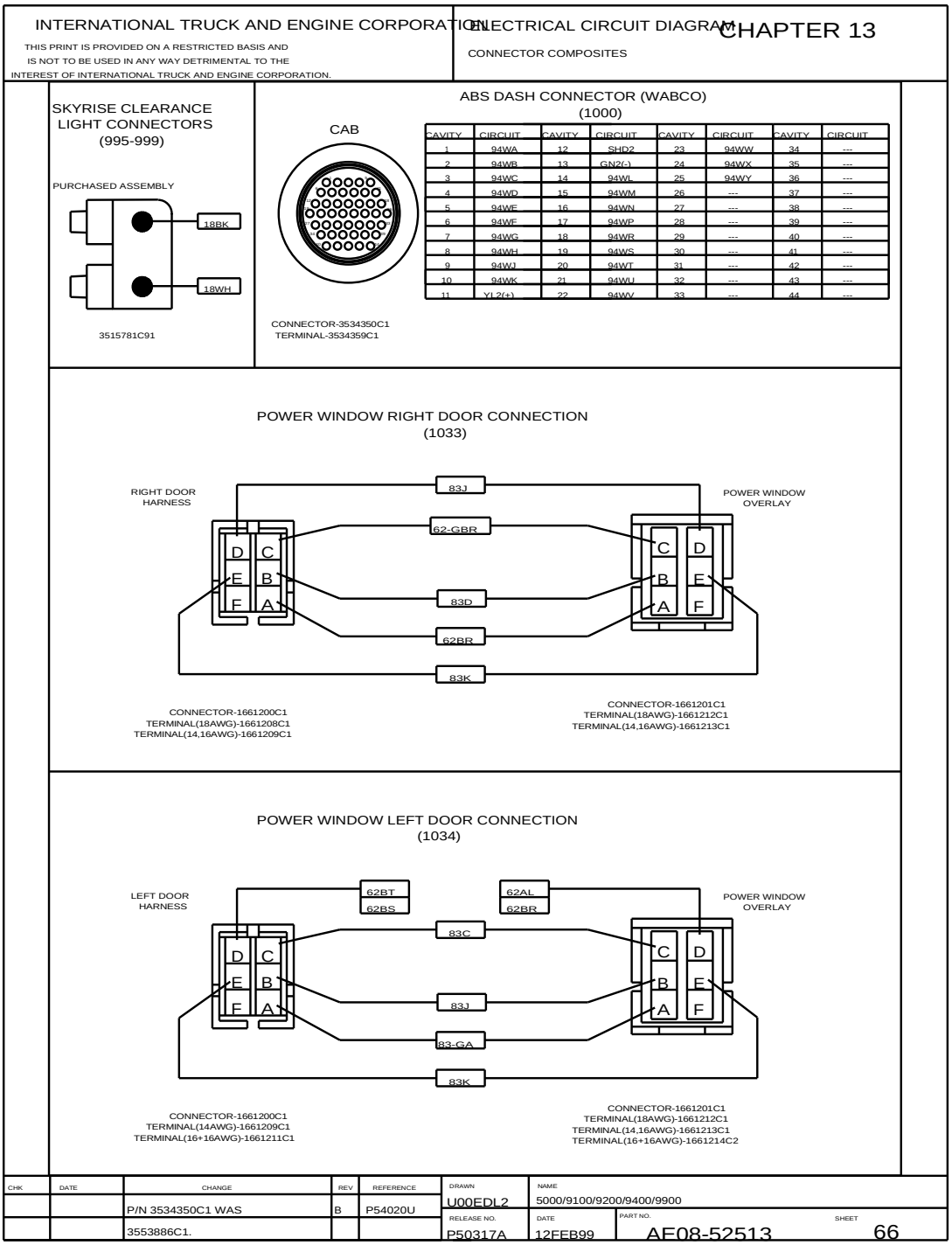


Figure 213 Connector Composites (995–999), (1000), (1033), (1034)

13.67. CONNECTOR COMPOSITES (1039), (1040), (1041), (1042), (1043), (1044), P. 67

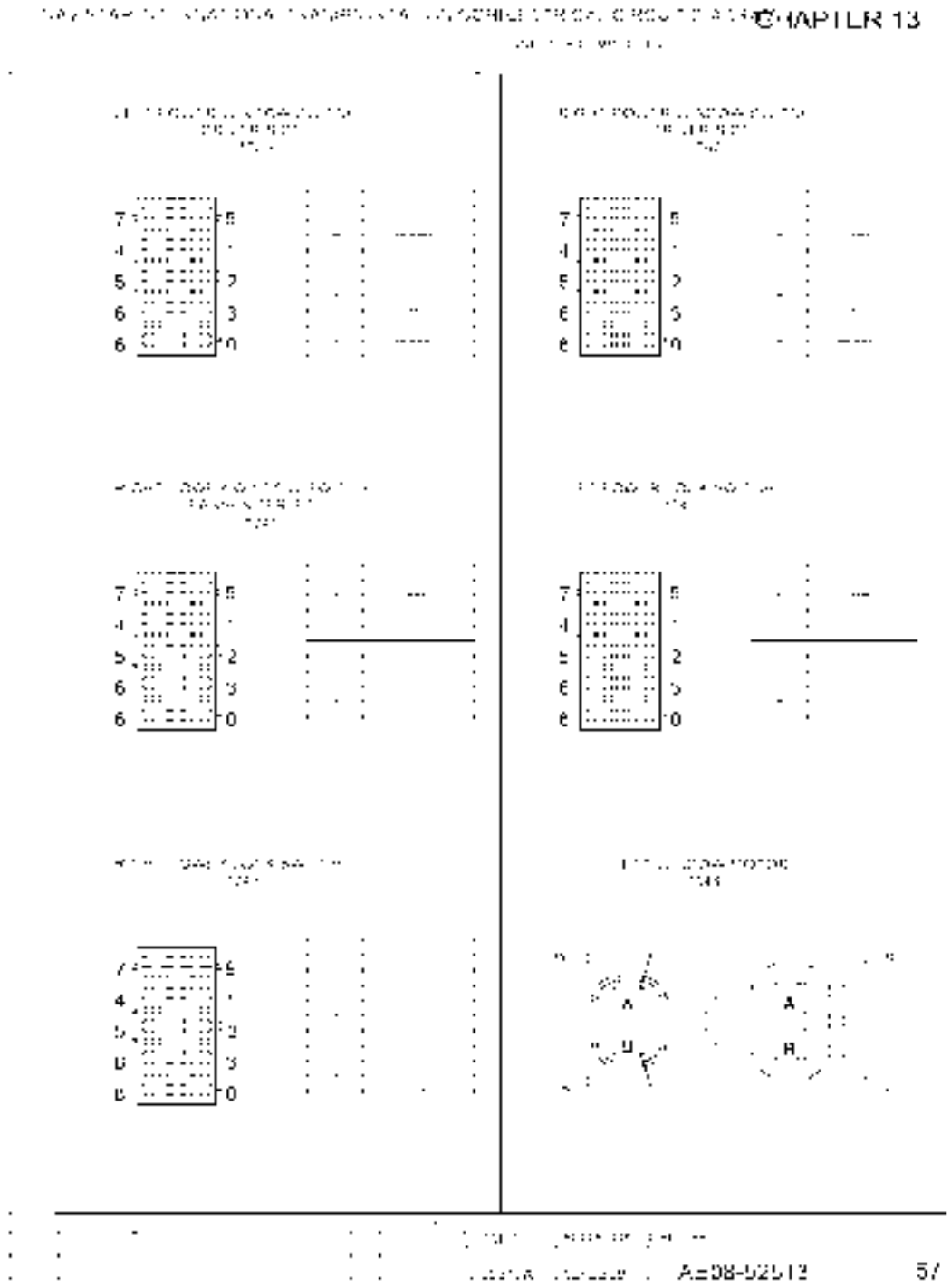


Figure 214 Connector Composites (1039), (1040), (1041), (1042), (1043), (1044)

13.68. CONNECTOR COMPOSITES (1045), (1046), (1047), (1048), P. 68

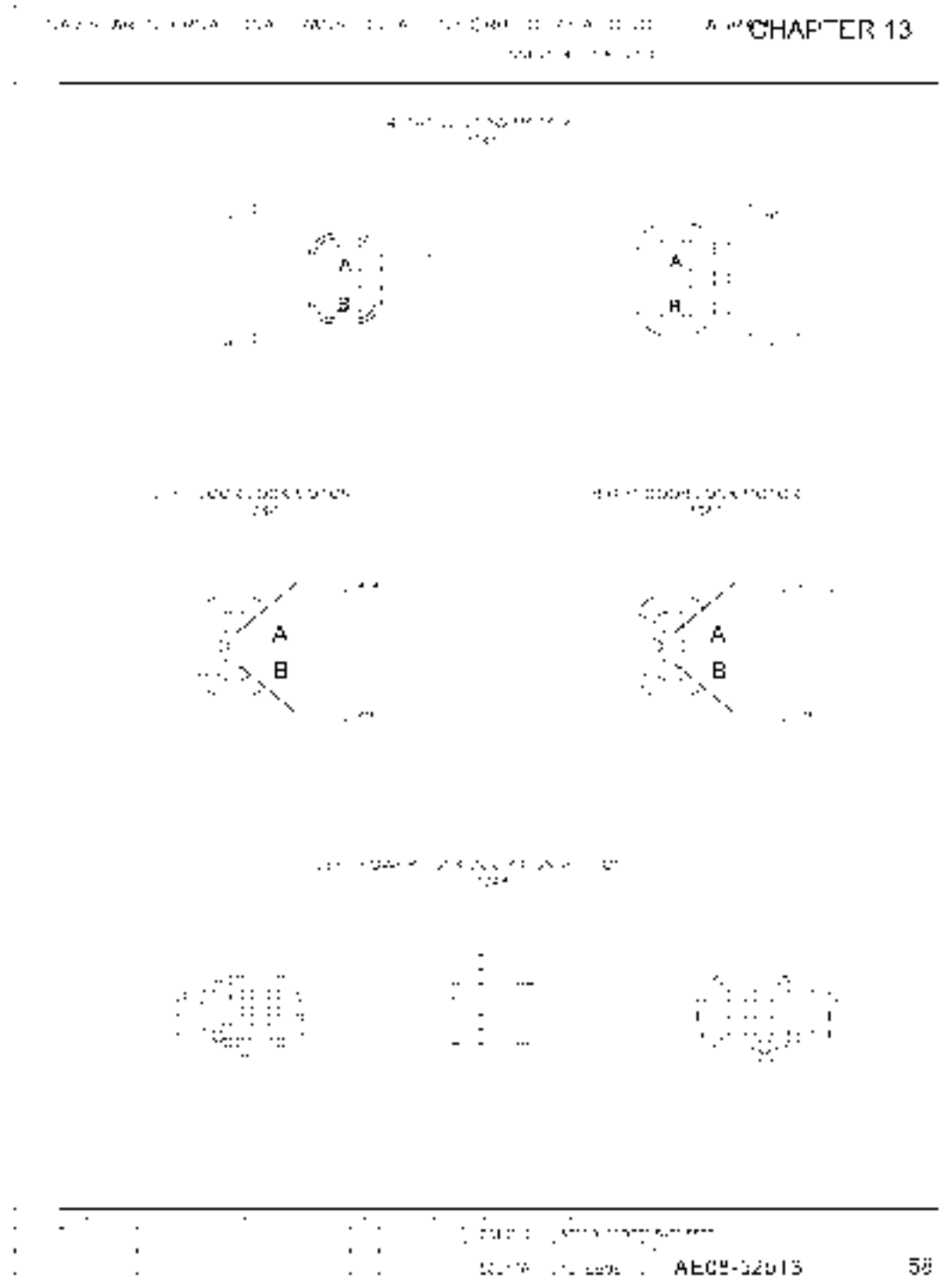


Figure 215 Connector Composites (1045), (1046), (1047), (1048)

13.69. CONNECTOR COMPOSITES (1049), (1050), (1051), P. 69

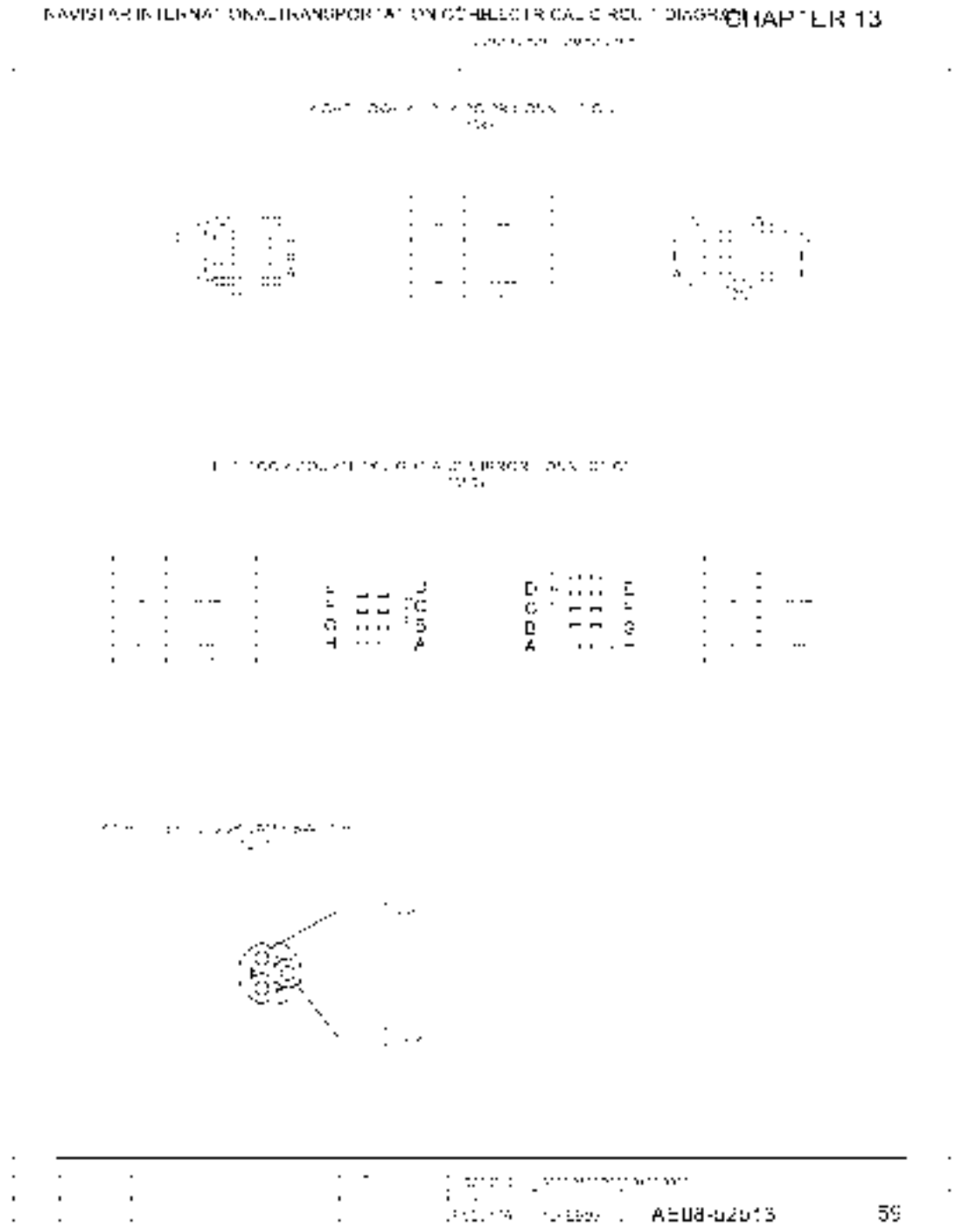


Figure 216 Connector Composites (1049), (1050), (1051)

13.70. CONNECTOR COMPOSITES (1053), (1054), (1056), (1057), P. 70

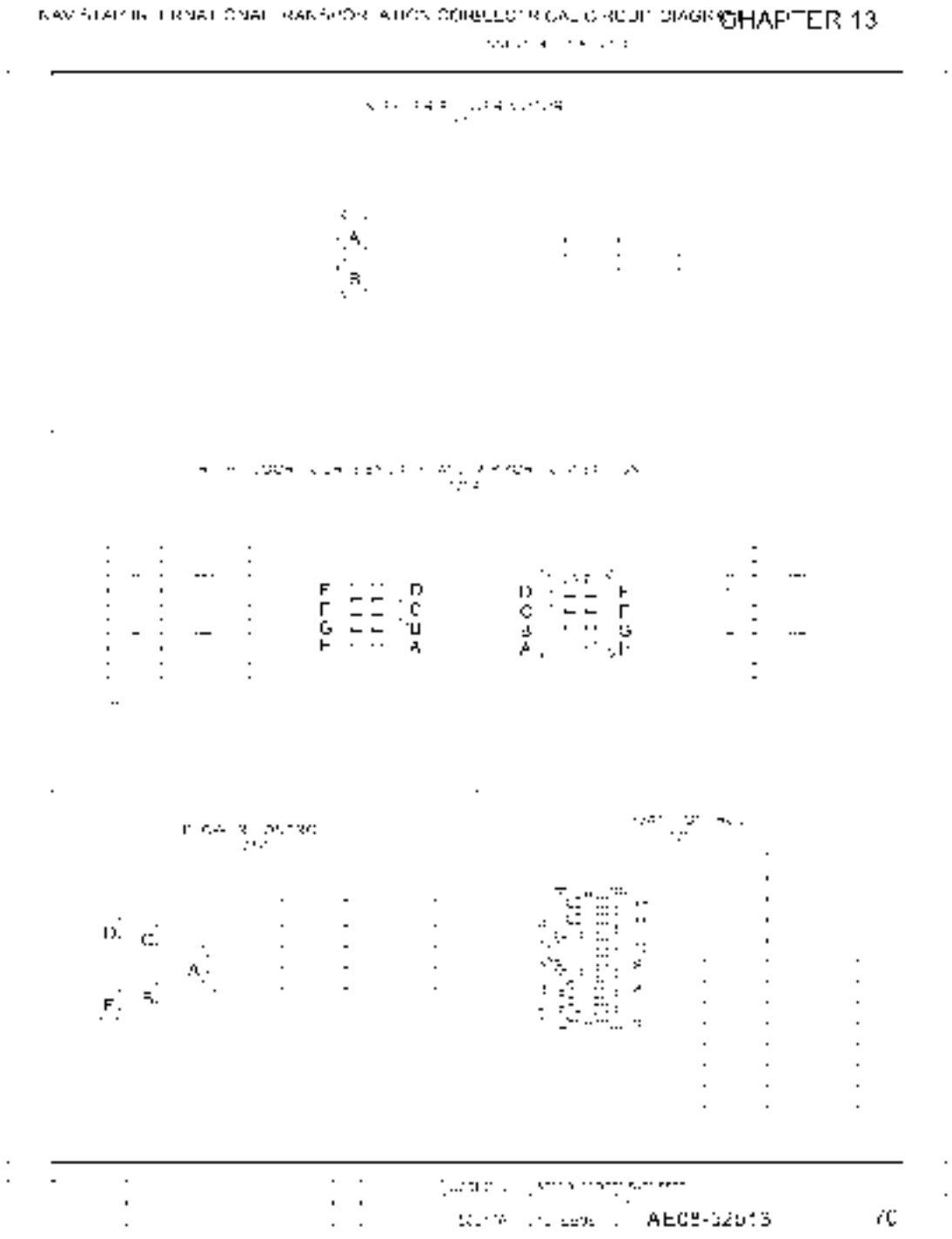


Figure 217 Connector Composites (1053), (1054), (1056), (1057)

13.71. CONNECTOR COMPOSITES (1058), (1059), (1060), (1084), (1085), (1086), (1088), (1090F), P. 71

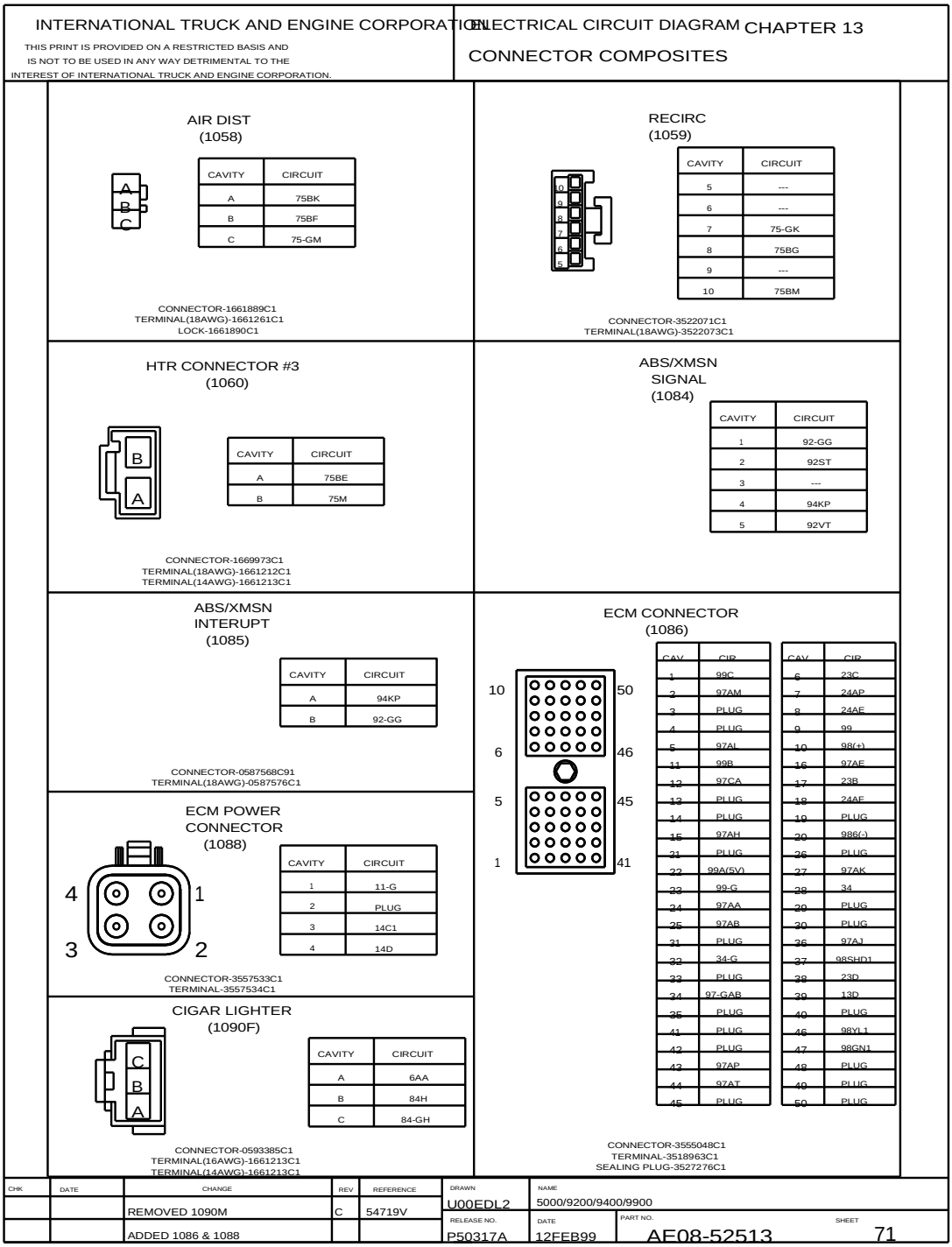


Figure 218 Connector Composites (1058), (1059), (1060), (1084), (1085), (1086), (1088), (1090F)

13.72. CONNECTOR COMPOSITES (1090M), (1091), (1093), (1094), (1095), P. 72

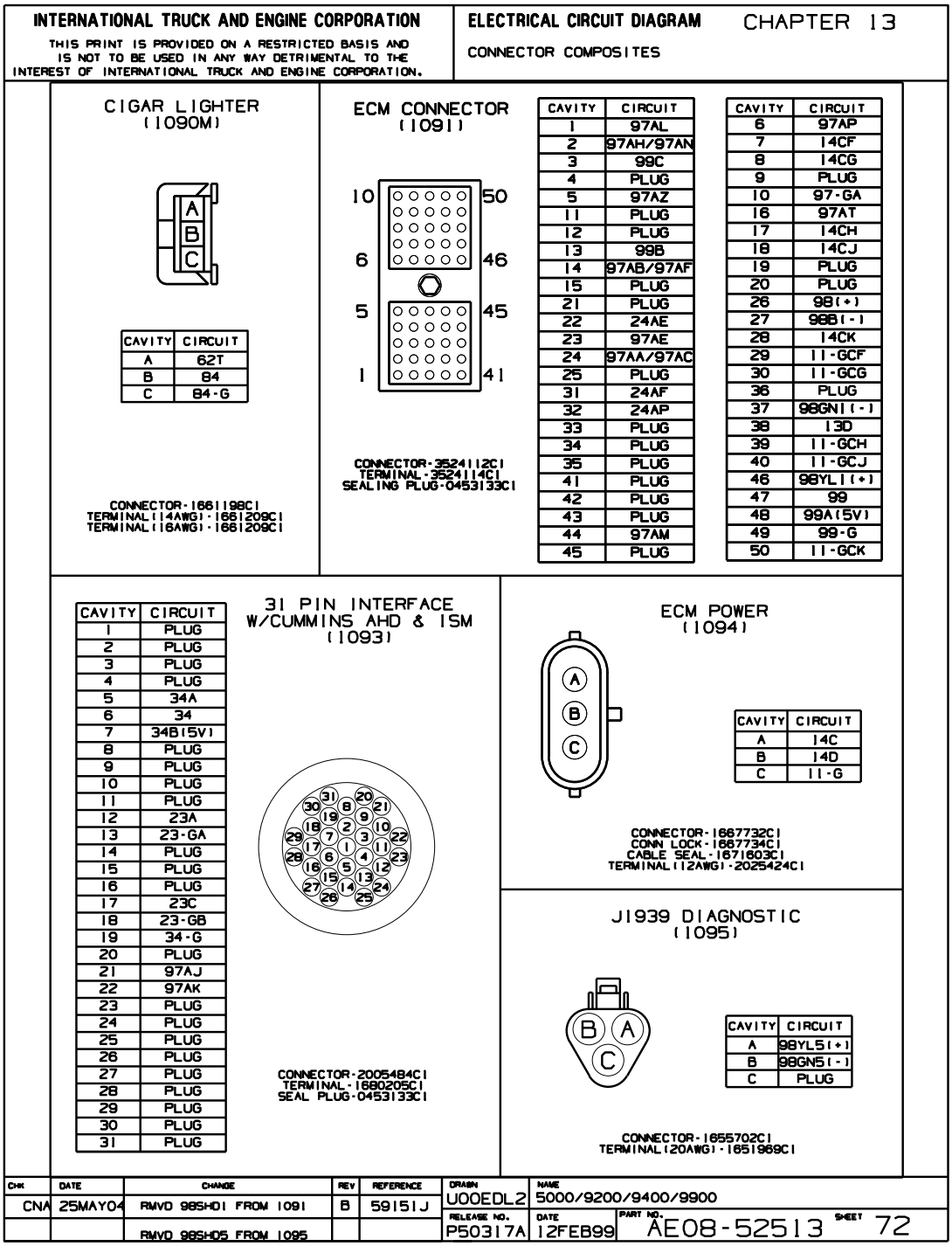


Figure 219 Connector Composites (1090M), (1091), (1093), (1094), (1095)

13.73. CONNECTOR COMPOSITES (1097), (1098), (1099), (1108), P. 73

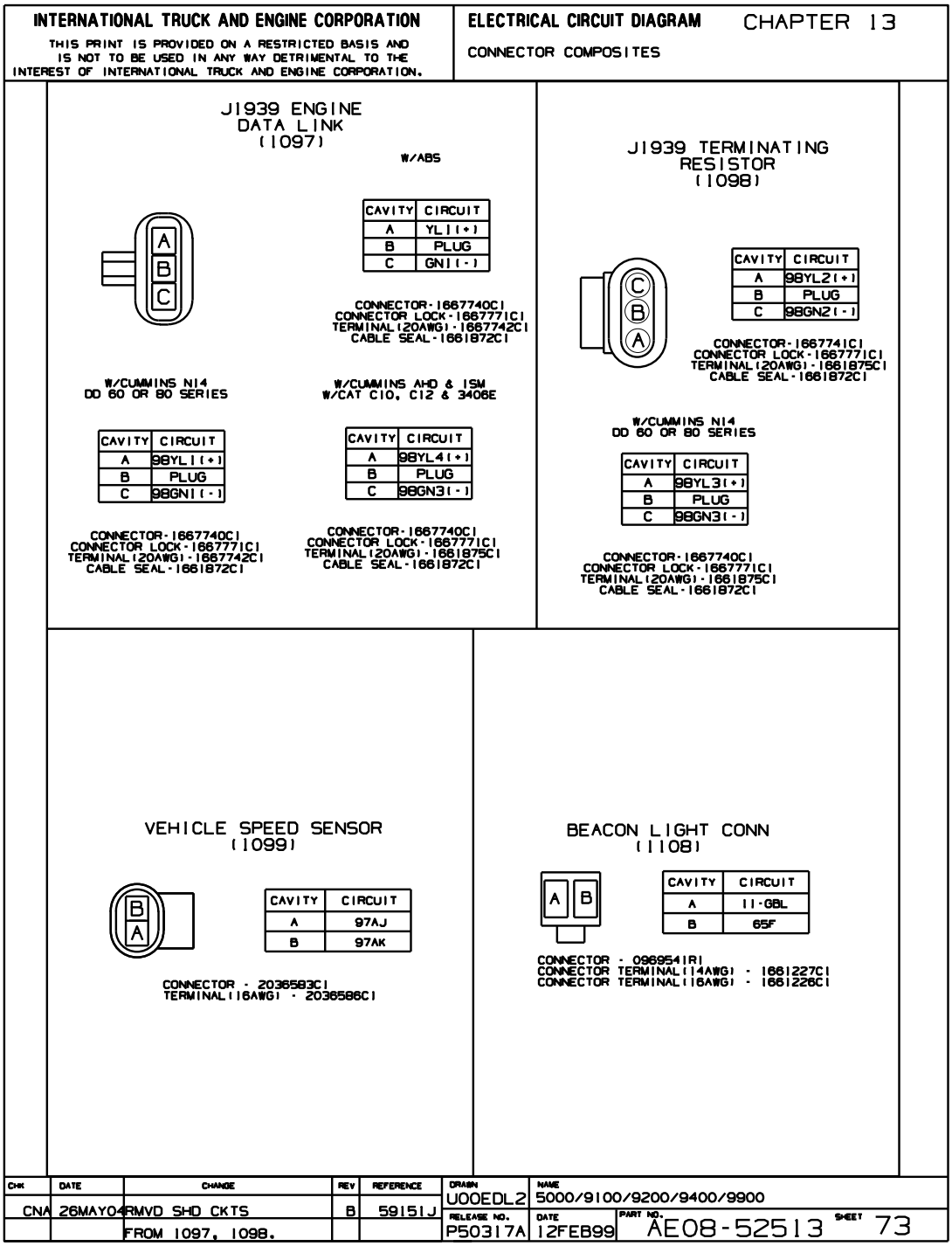


Figure 220 Connector Composites (1097), (1098), (1099), (1108)

13.74. CONNECTOR COMPOSITES (1110), (1112), (1113), (1125), (1126), P. 74

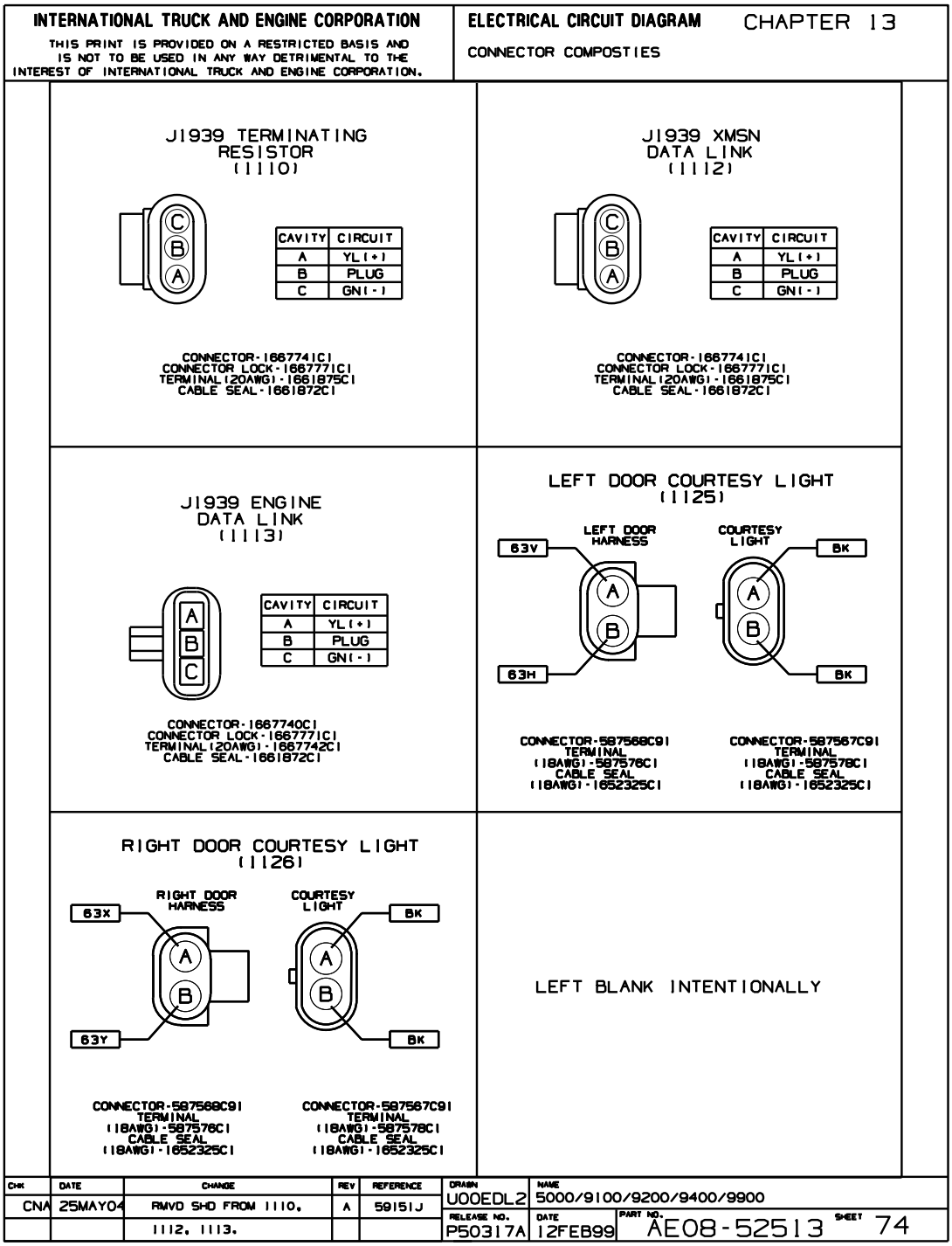


Figure 221 Connector Composites (1110), (1112), (1113), (1125), (1126)

13.75. CONNECTOR COMPOSITES (1127), (1128), (1130), (1135), P. 75

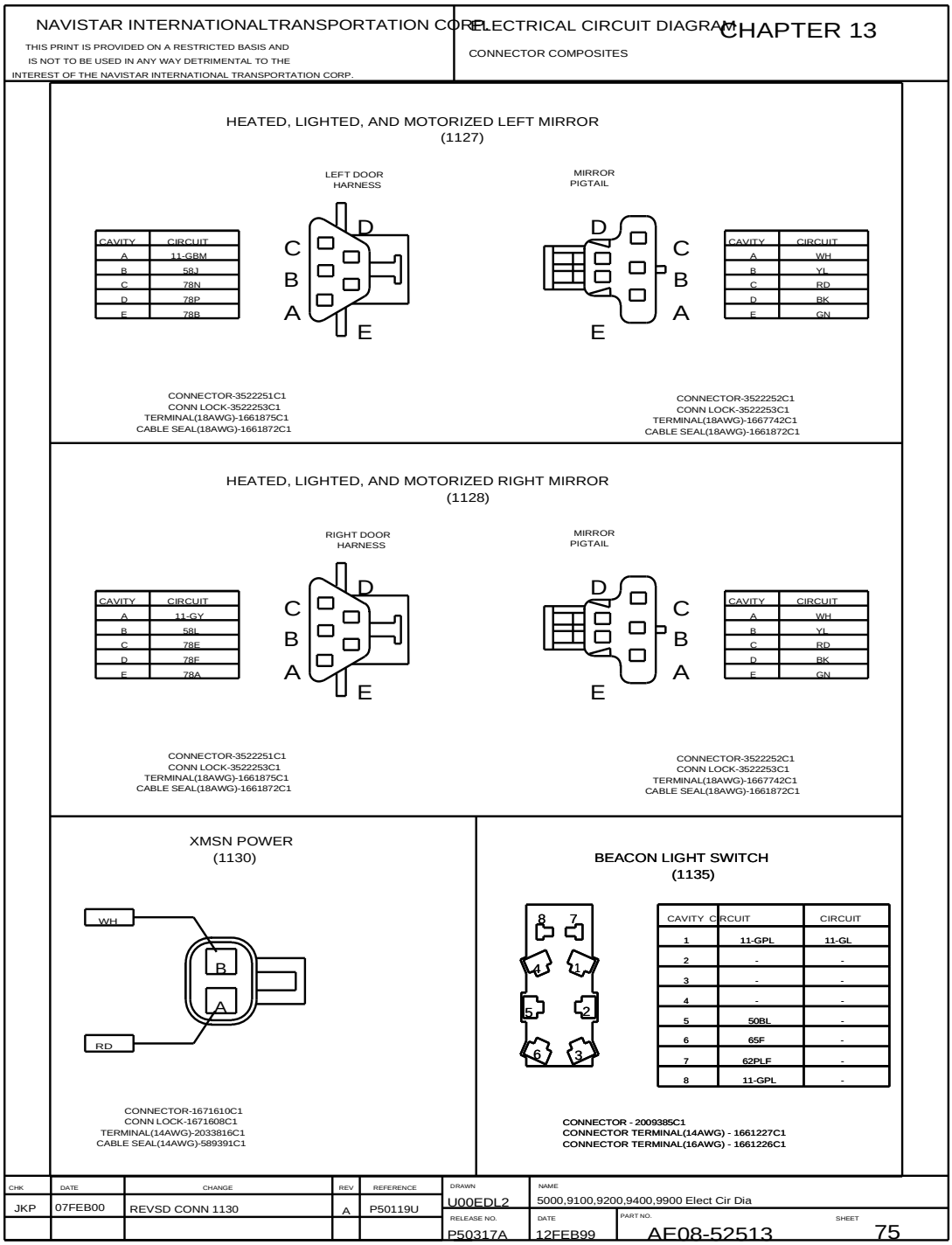


Figure 222 Connector Composites (1127), (1128), (1130), (1135)

13.76. CONNECTOR COMPOSITES (1137), (1138), (1139), (1140), (1141), P. 76

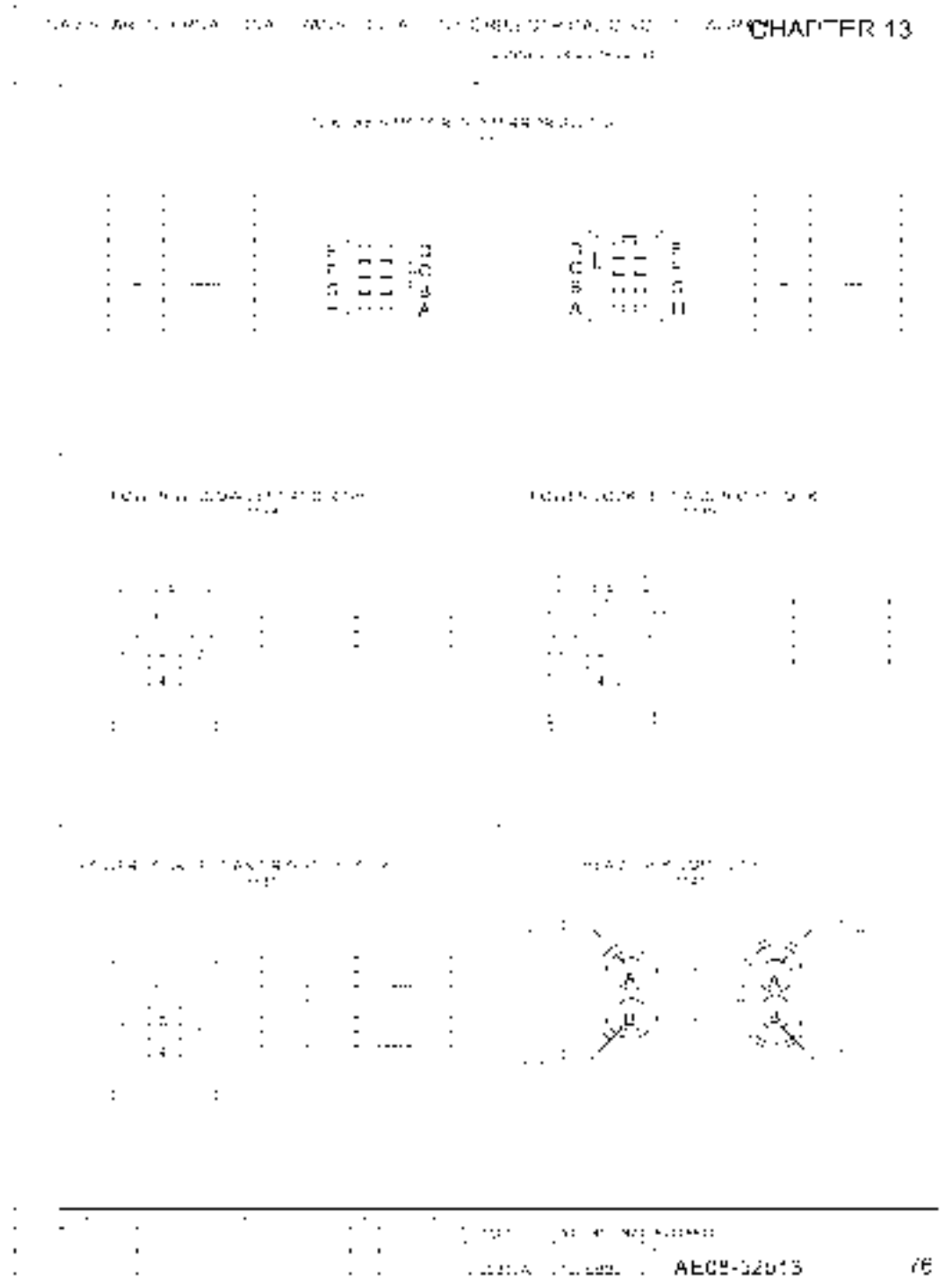


Figure 223 Connector Composites (1137), (1138), (1139), (1140), (1141)

13.77. CONNECTOR COMPOSITES (1155), (1156), (1157), (1158), (1159), (1170), P. 77

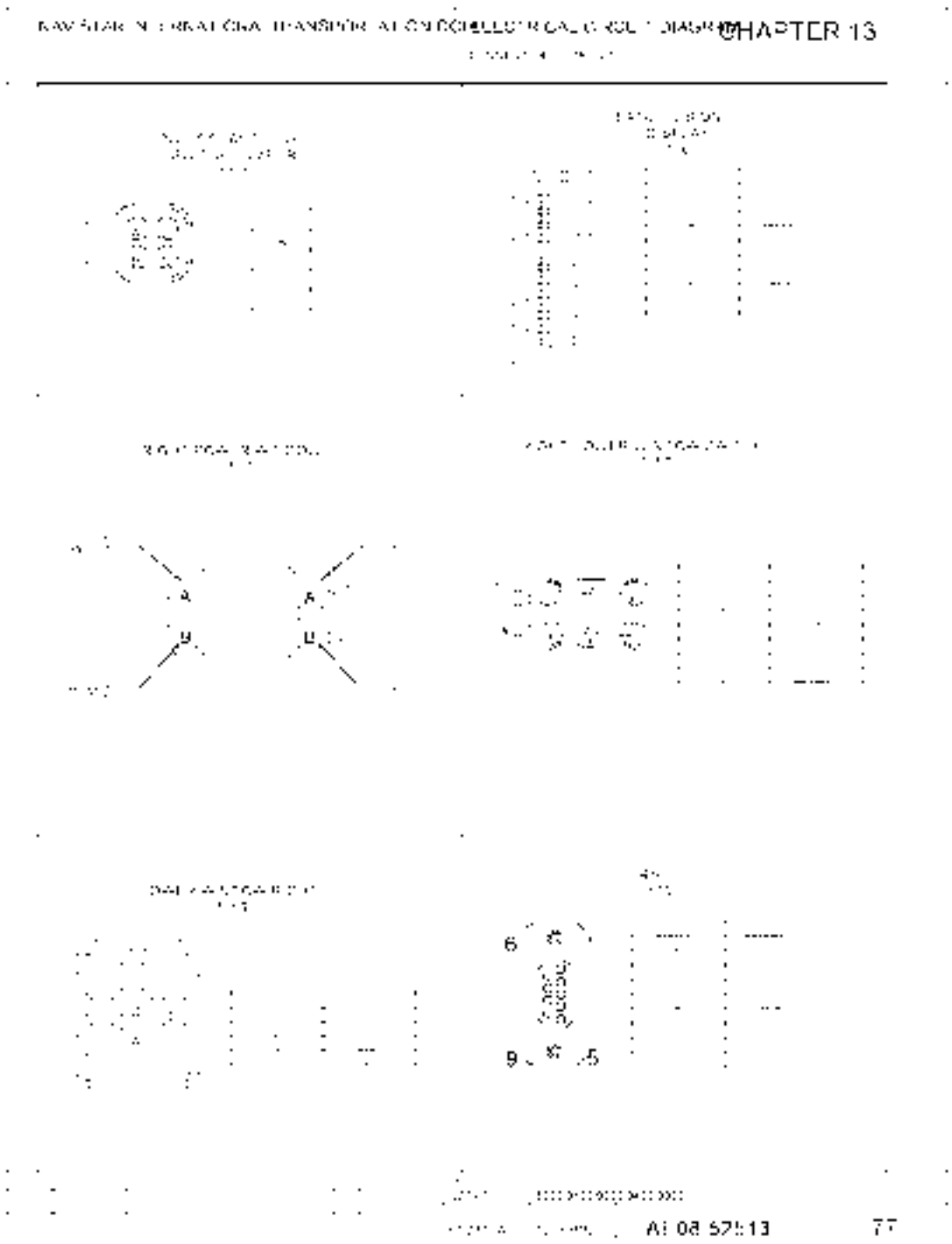


Figure 224 Connector Composites (1155), (1156), (1157), (1158), (1159), (1170)

13.78. CONNECTOR COMPOSITES (1171), (1188), (1189), AND JUNCTION POINTS J7 AND J4, P. 78

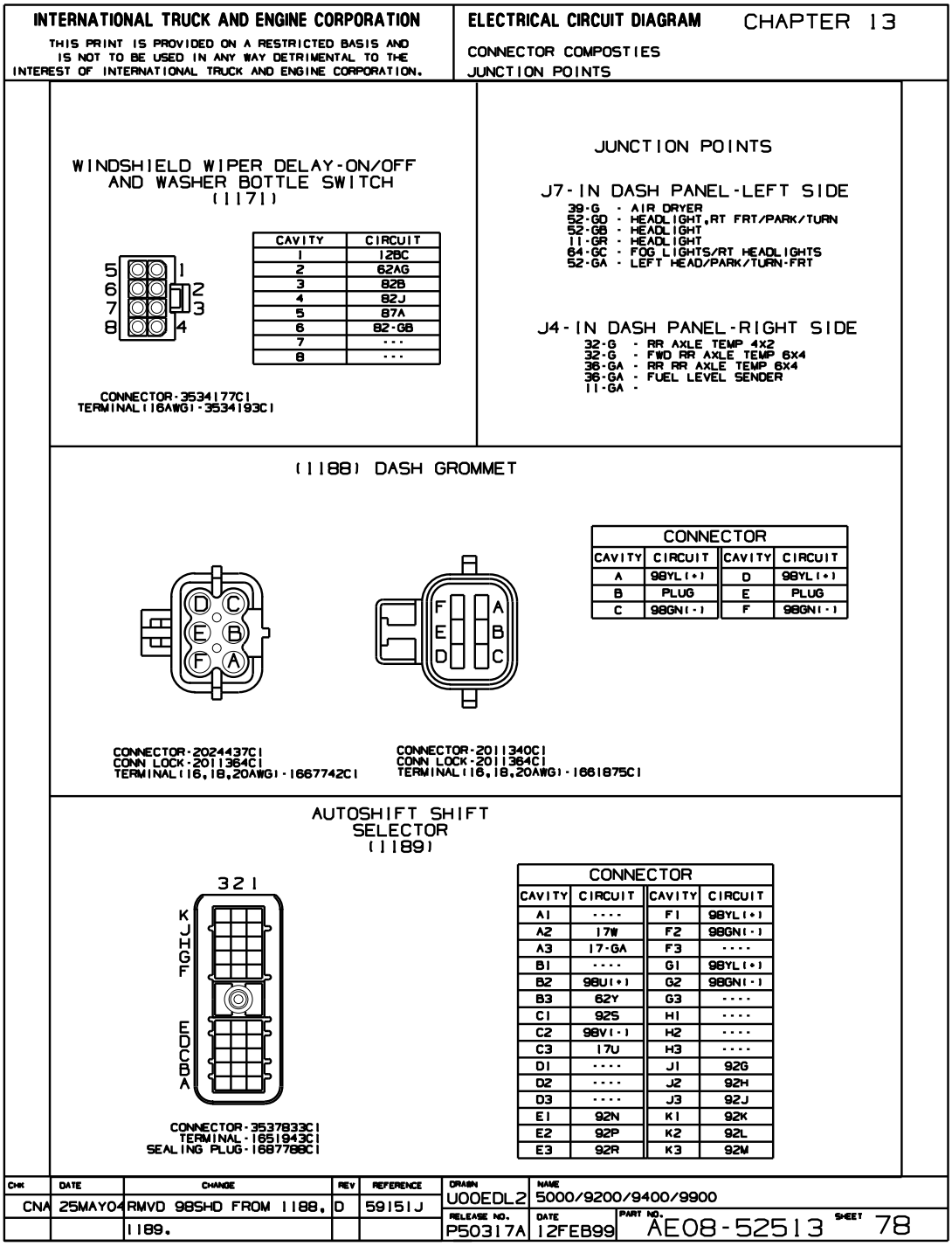


Figure 225 Connector Composite (1171), (1188), (1189), and Junction Points J4 and J7

13.79. CONNECTOR COMPOSITES (1190), (1193), (1194), (1195), (1223), (1224), (1225), P. 79

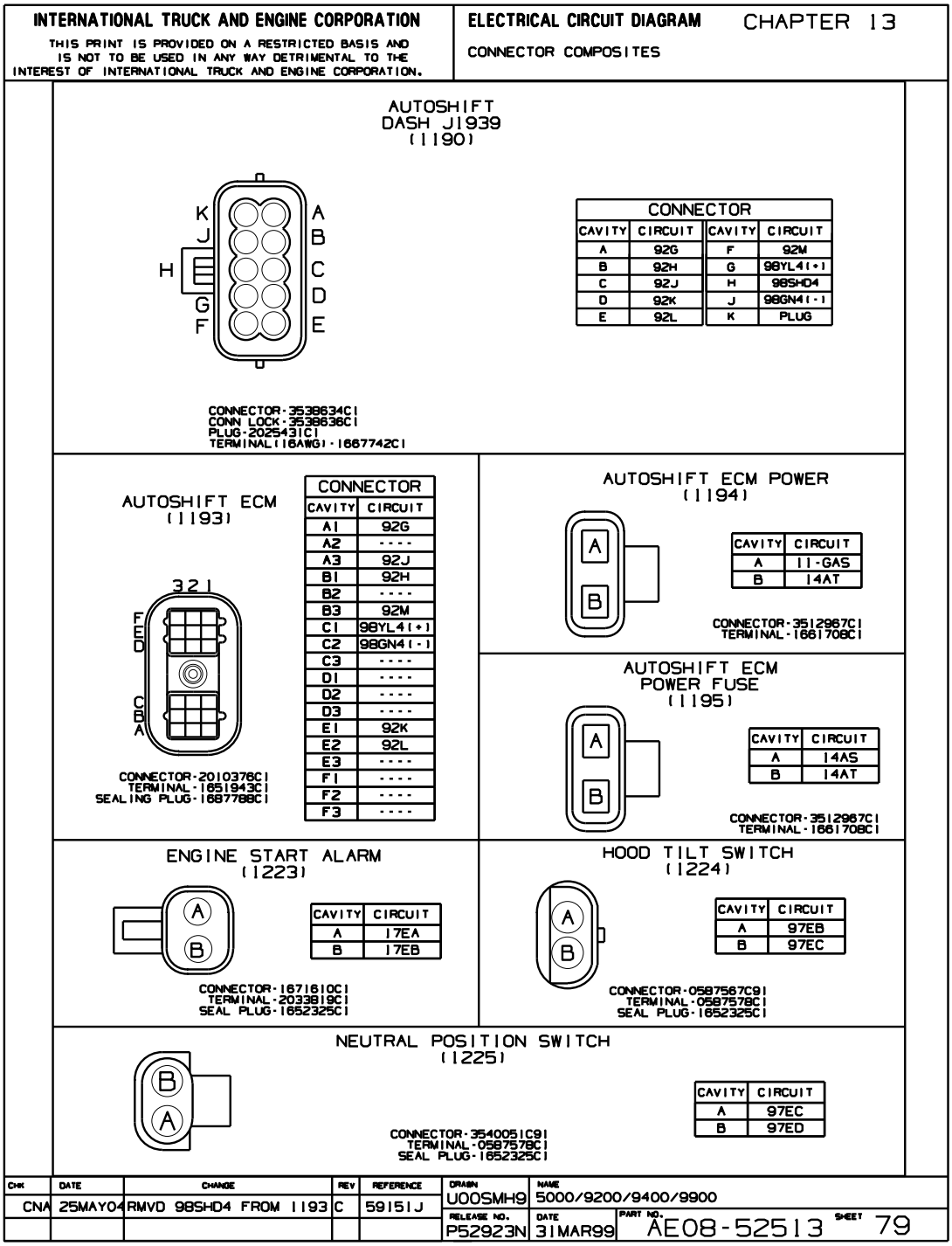


Figure 226 Connector Composites (1190), (1193), (1194), (1195), (1223), (1224), (1225)

13.80. CONNECTOR COMPOSITES (1227), (1229), (1239A, B, C), (1239), (1240), P. 80

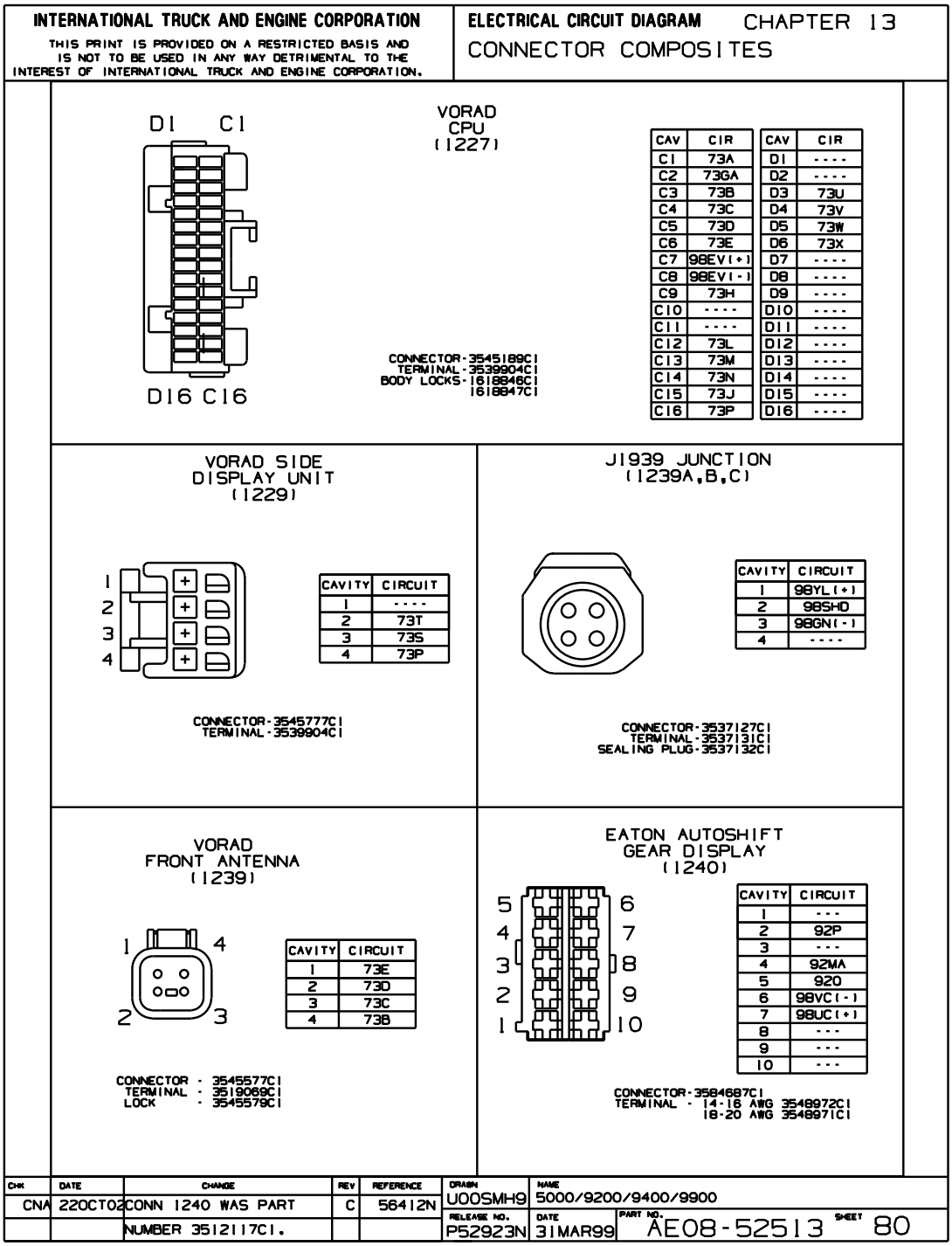


Figure 227 Connector Composites (1227), (1229), (1239A, B, C), (1239), (1240)

13.81. CONNECTOR COMPOSITES (1241), (1243), (1244), (1258), (1260), (1261), P. 81

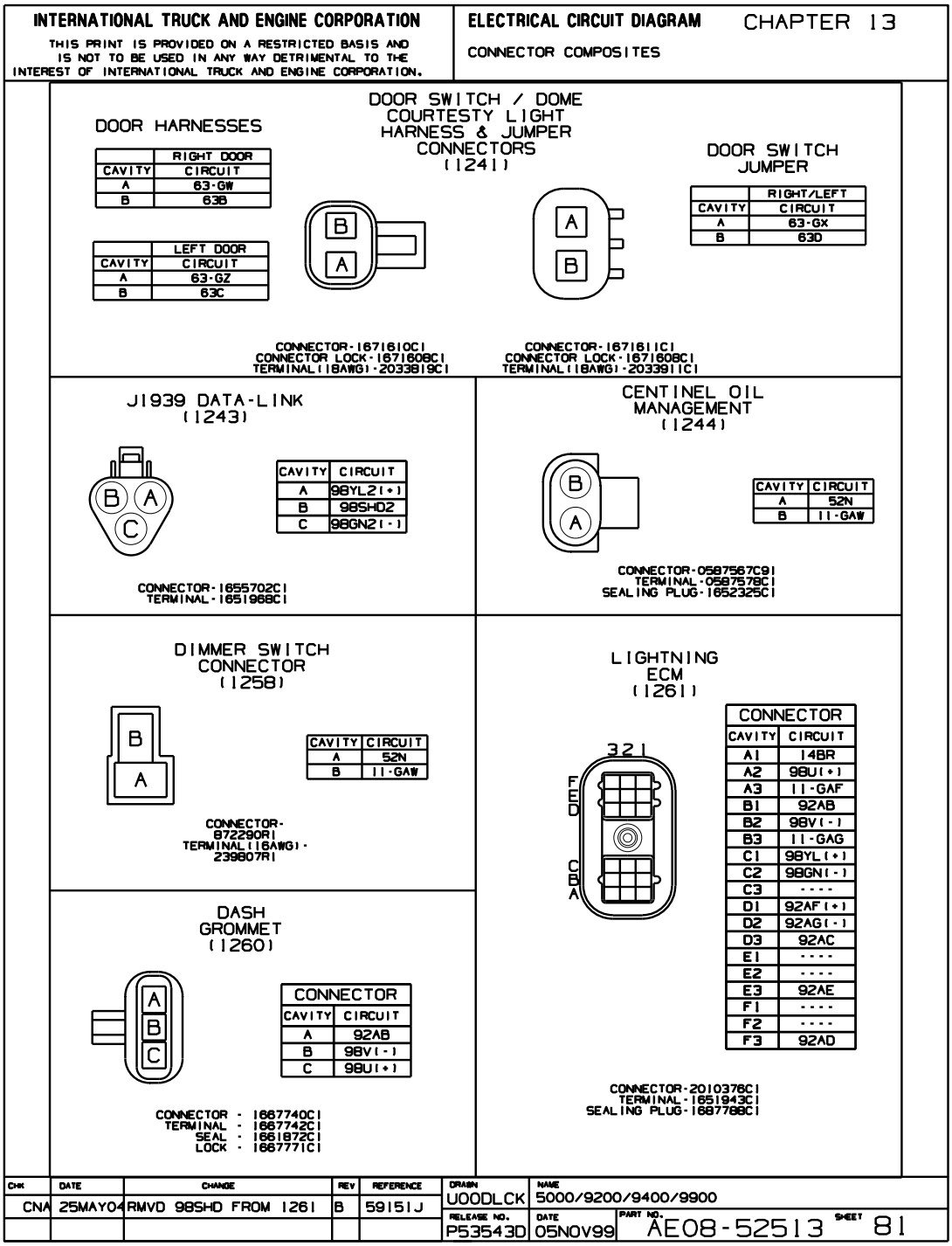


Figure 228 Connector Composites (1241), (1243), (1244), (1258), (1260), (1261)

13.82. CONNECTOR COMPOSITES (1262), (1263), (1264), (1265), (1279), P. 82

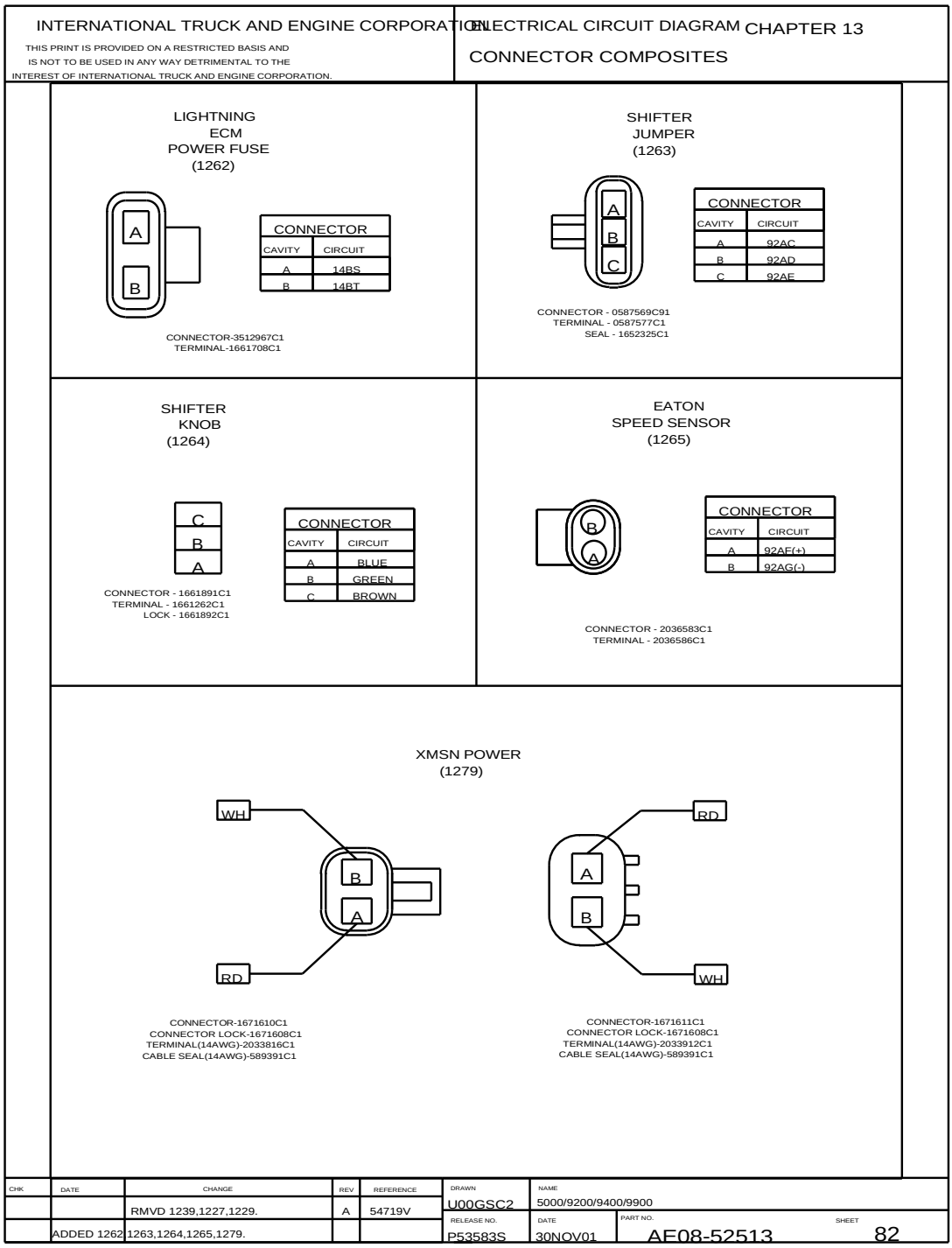


Figure 229 Connector Composites (1262), (1263), (1264), (1265), (1279)

13.83. LEFT BLANK INTENTIONALLY, P. 83

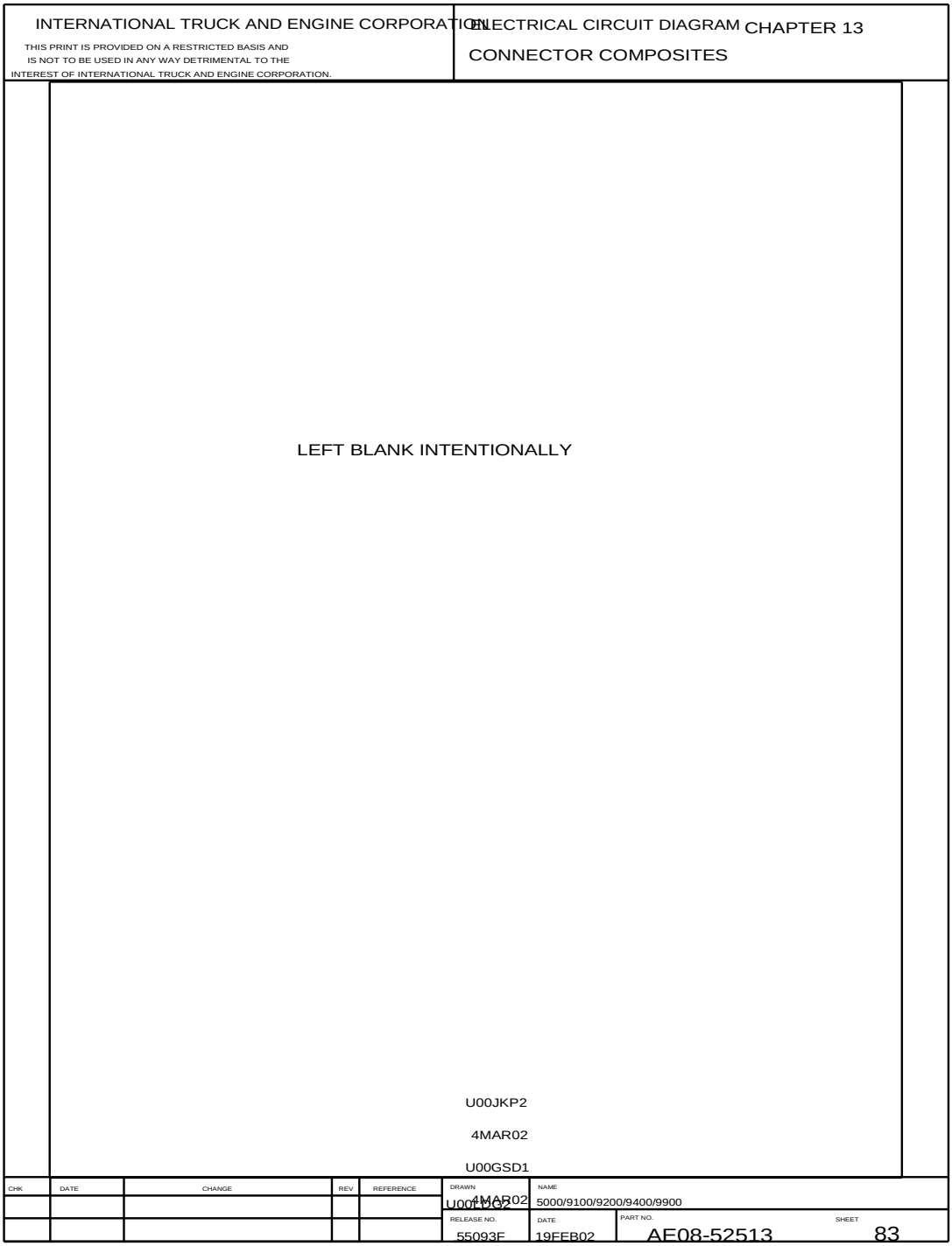


Figure 230 Left Blank Intentionally

13.84. CONNECTOR COMPOSITE (1285), P. 84

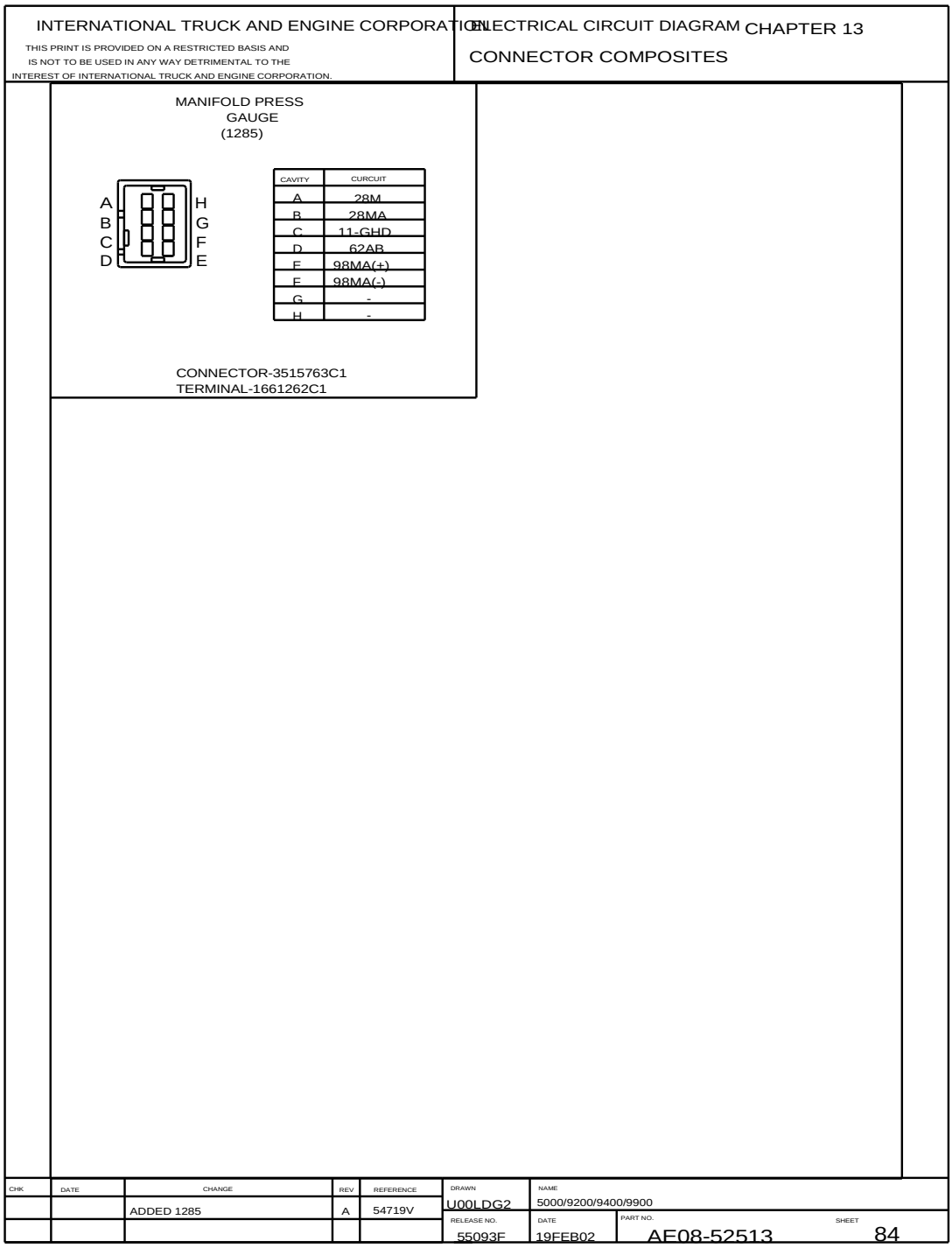


Figure 231 Connector Composite (1285)

13.85. CONNECTOR COMPOSITES (1286), (1287), (1288), (1289), (1290), P. 85

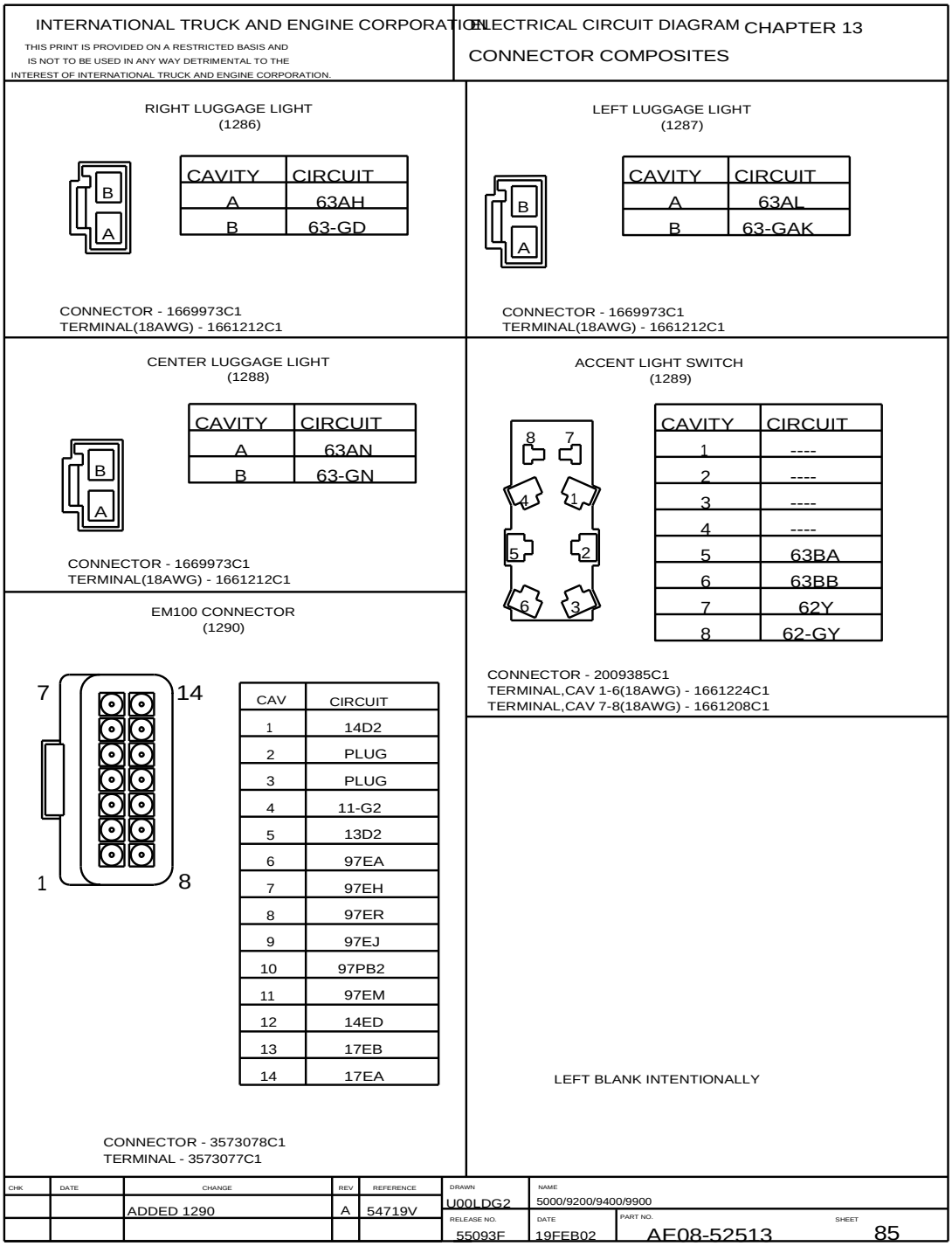


Figure 232 Connector Composites (1286), (1287), (1288), (1289), (1290)

13.86. CONNECTOR COMPOSITES (1304), (1305), (1306), (1307), (1308), (1309M), P. 86

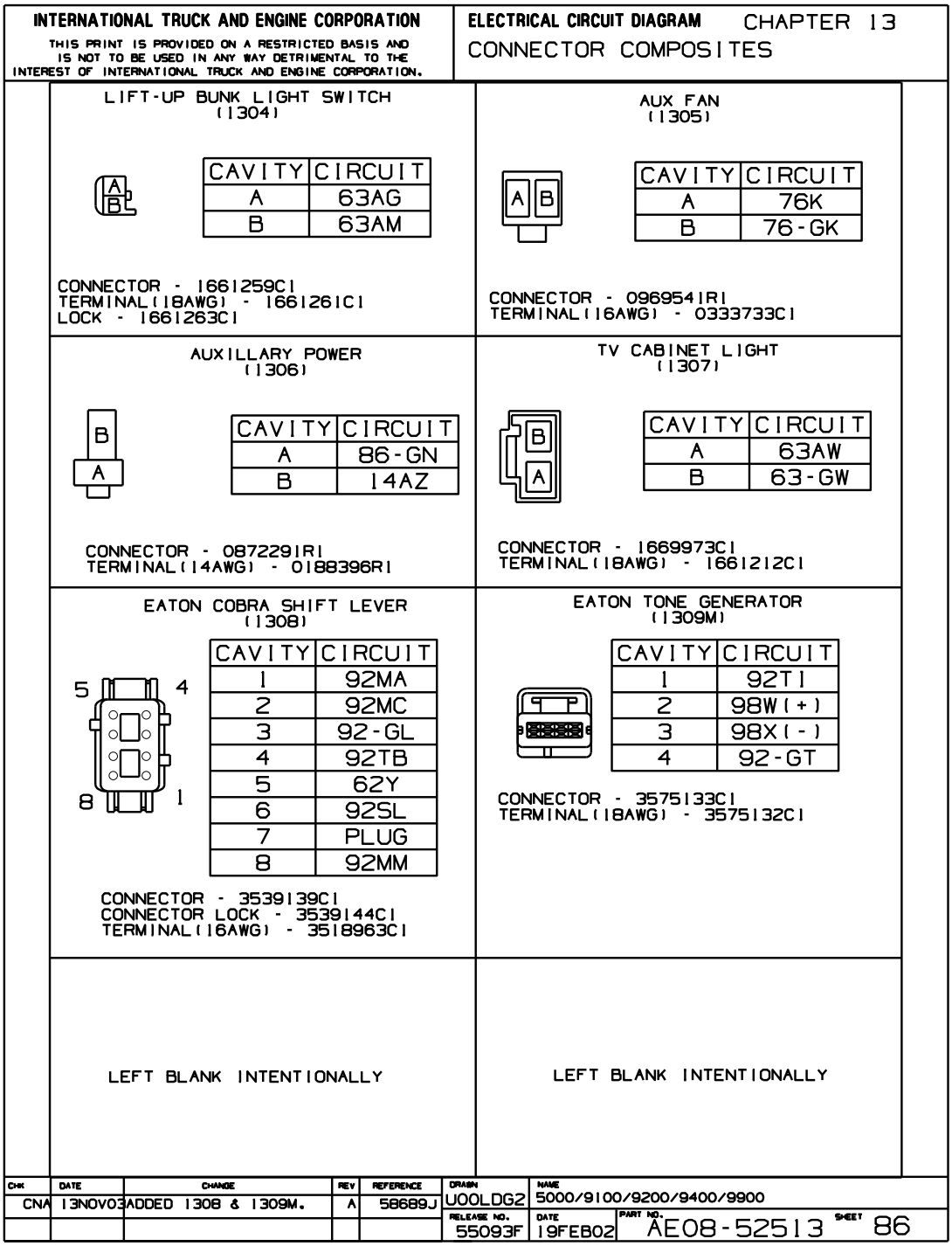


Figure 233 Connector Composites (1304), (1305), (1306), (1307), (1308), (1309M)

13.87. CONNECTOR COMPOSITES (1310), (1311), (1312), (1313), (1315), (1316OL), (1316PL), P. 87

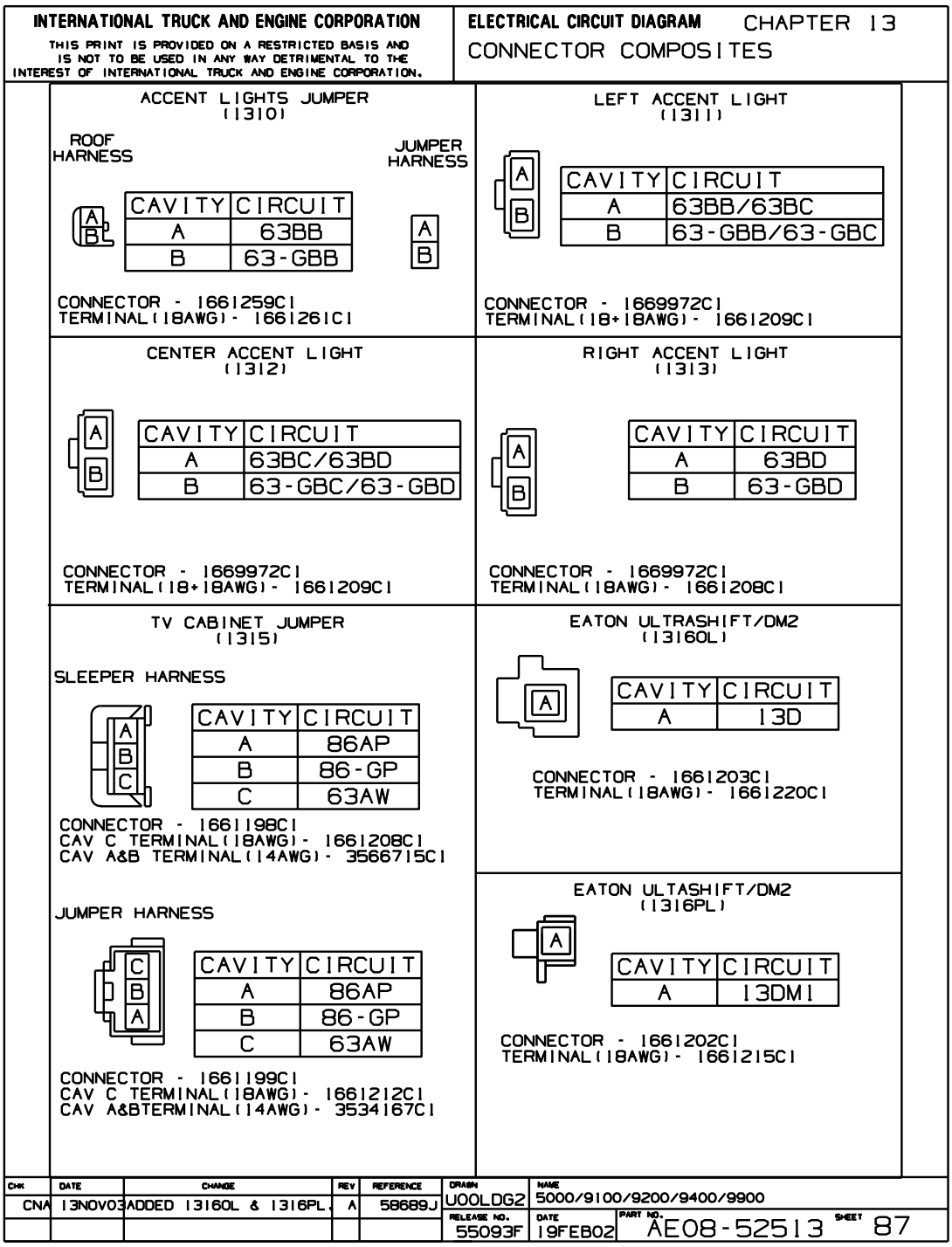


Figure 234 Connector Composites (1310), (1311), (1312), (1313), (1315), (1316OL), (1316PL)

13.88. CONNECTOR COMPOSITES (1321), (1322), (1323), (1324), (1327), (1328), P. 88

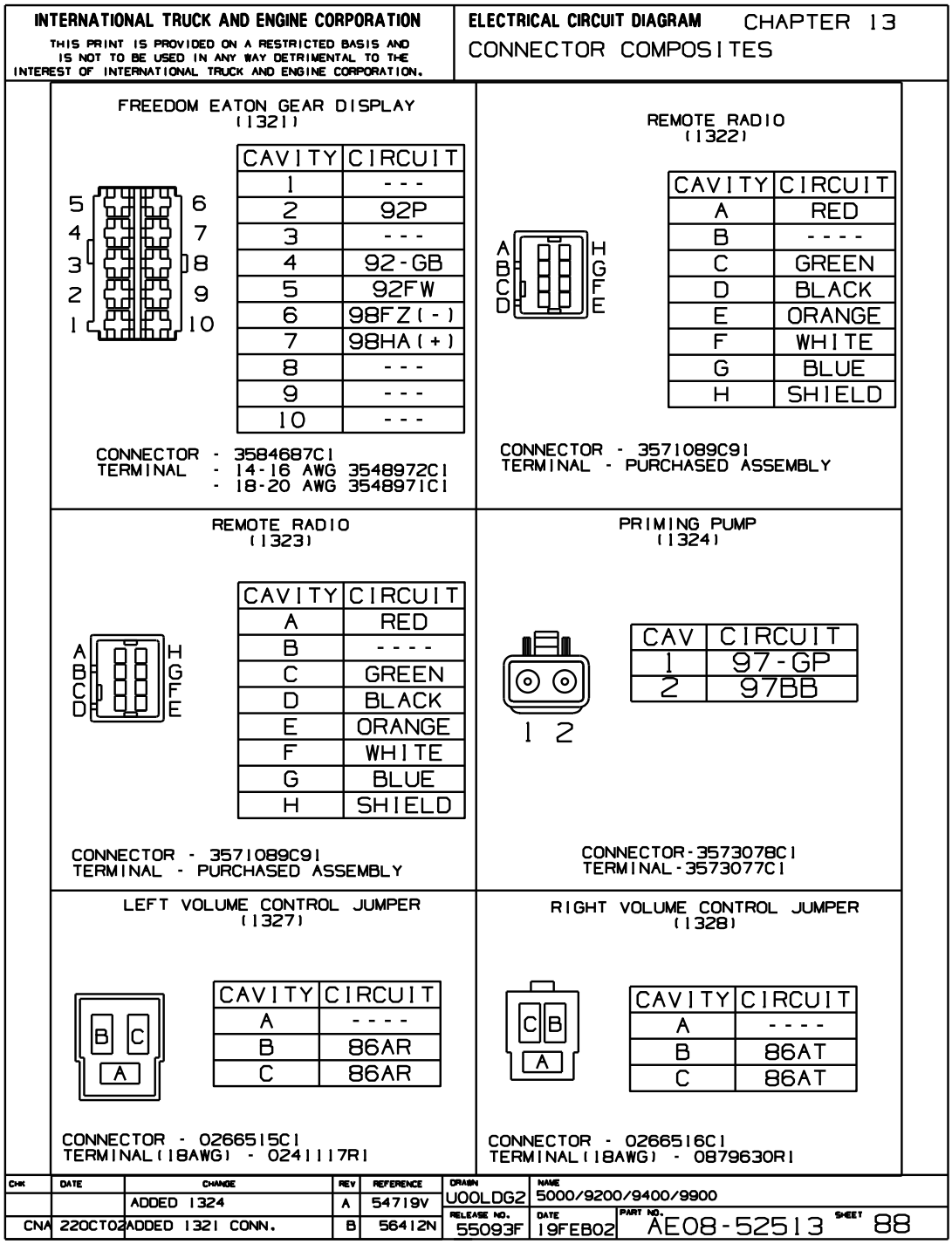


Figure 235 Connector Composites (1321), (1322), (1323), (1324), (1327), (1328)

13.89. CONNECTOR COMPOSITES (1331), (1332), P. 89

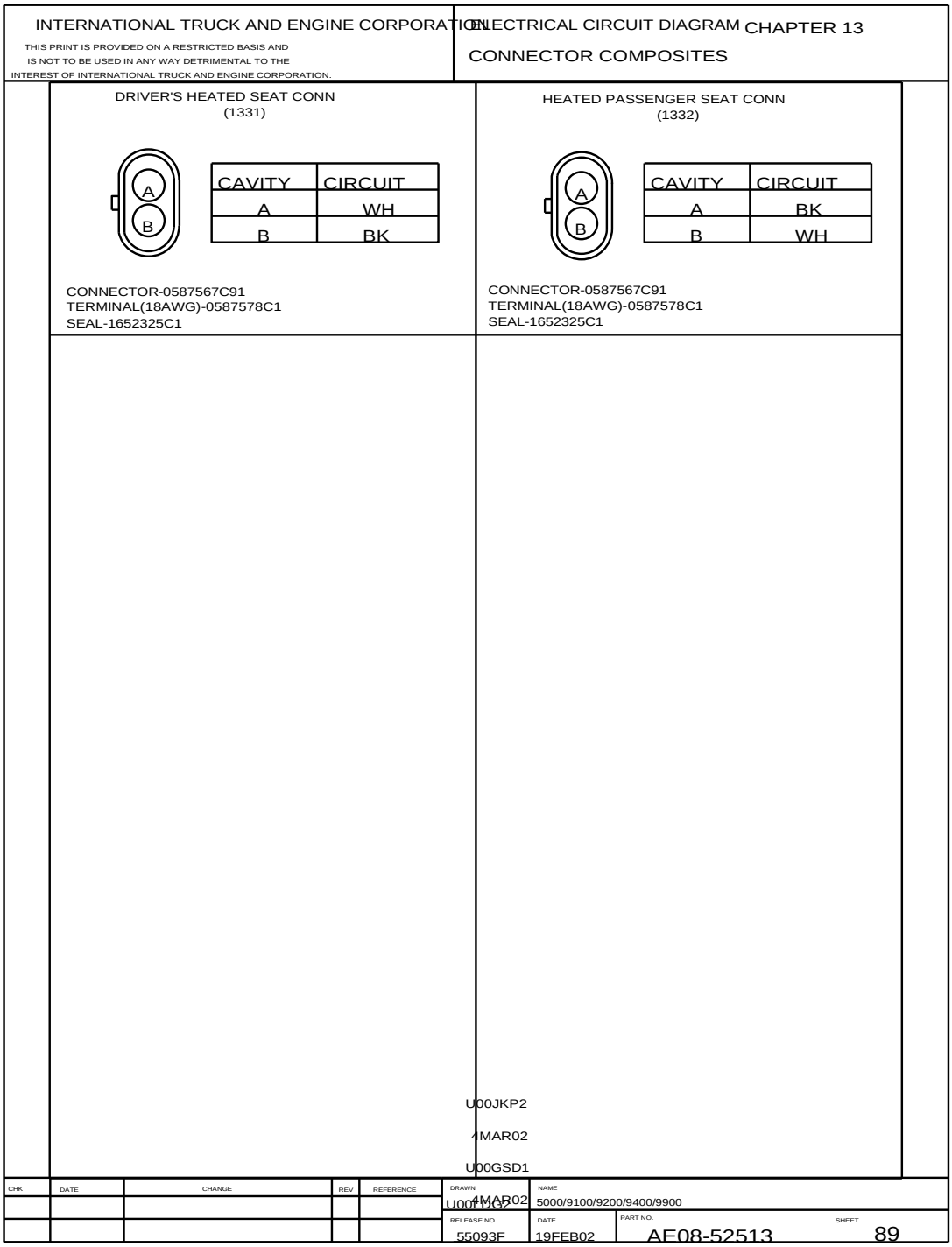


Figure 236 Connector Composites (1331), (1332)

13.90. CONNECTOR COMPOSITES (1348), (1349), P. 90

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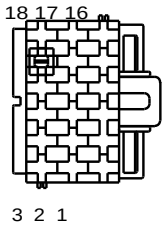
ELECTRICAL CIRCUIT DIAGRAM CHAPTER 13

CONNECTOR COMPOSITES

ABS6 ECU CONNECTOR 1
(1348)

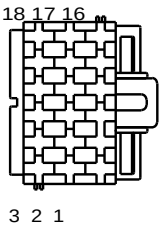


BLACK AMP CONNECTOR-3596926C1
CAVITIES 1,3,16 USE 12AWG-3597157C1
CAVITIES 12,18 USE 16AWG-3548970C1
CAVITIES 2,7,8 USE 18AWG-3598072C1
CAVITIES 13,14 USE 16AWG-3598073C1
CONNECTOR BODY LOCK-3562309C1

CAVITY	CIRCUIT
1	94-GA
2	94T
3	94KA
4	94BW*
5	94BV*
6	94BE*
7	GN1(-)
8	YL1(+)
9	-
10	94BY
11	94BX
12	94-GL2
13	98K(-)
14	98J(+)
16	94P
17	92VT**
18	94H

*W/AUTO TRACTION CONTROL
**W/HD AUTO XMSN

ABS6 ECU CONNECTOR 2
(1349)



GREEN AMP CONNECTOR-3596929C1
TERMINAL(18AWG)-3598072C1

CAVITY	CIRCUIT
1	94BM
2	94BK
3	94BL
4	94BJ
5	94BF
6	94BH
7	94CB
8	94BC
9	94BP
10	94BN
11	94BB
12	94BU
13	94BR
14	94BA
15	94BZ
16	94BT
17	94BS
18	94CA

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
					U00MBC3	5000/9100/9200/9400/9900
					RELEASE NO. 50337C	DATE 20APR04

PART NO. AE08-52513 SHEET 90

Figure 237 Connector Composites (1348), (1349)

13.91. CONNECTOR COMPOSITES (1360), (1361), (5710L), P. 91

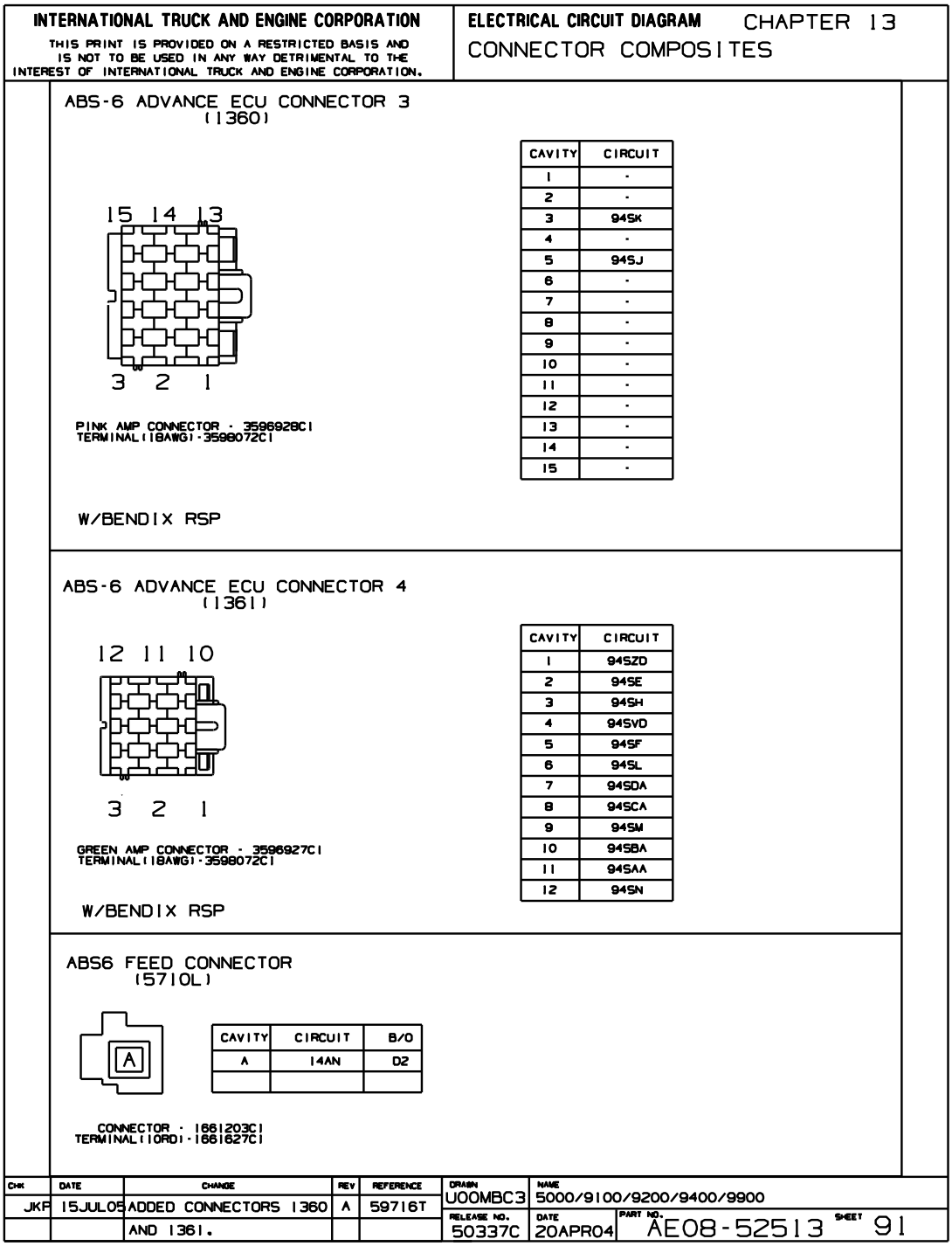


Figure 238 Connector Composites (1360), (1361), (5710L)

14. POWER DISTRIBUTION LAYOUT (CHAPTER 14)

14.1. POWER DISTRIBUTION CENTER, FUSE AND CIRCUIT BREAKER LOCATION, P. 1

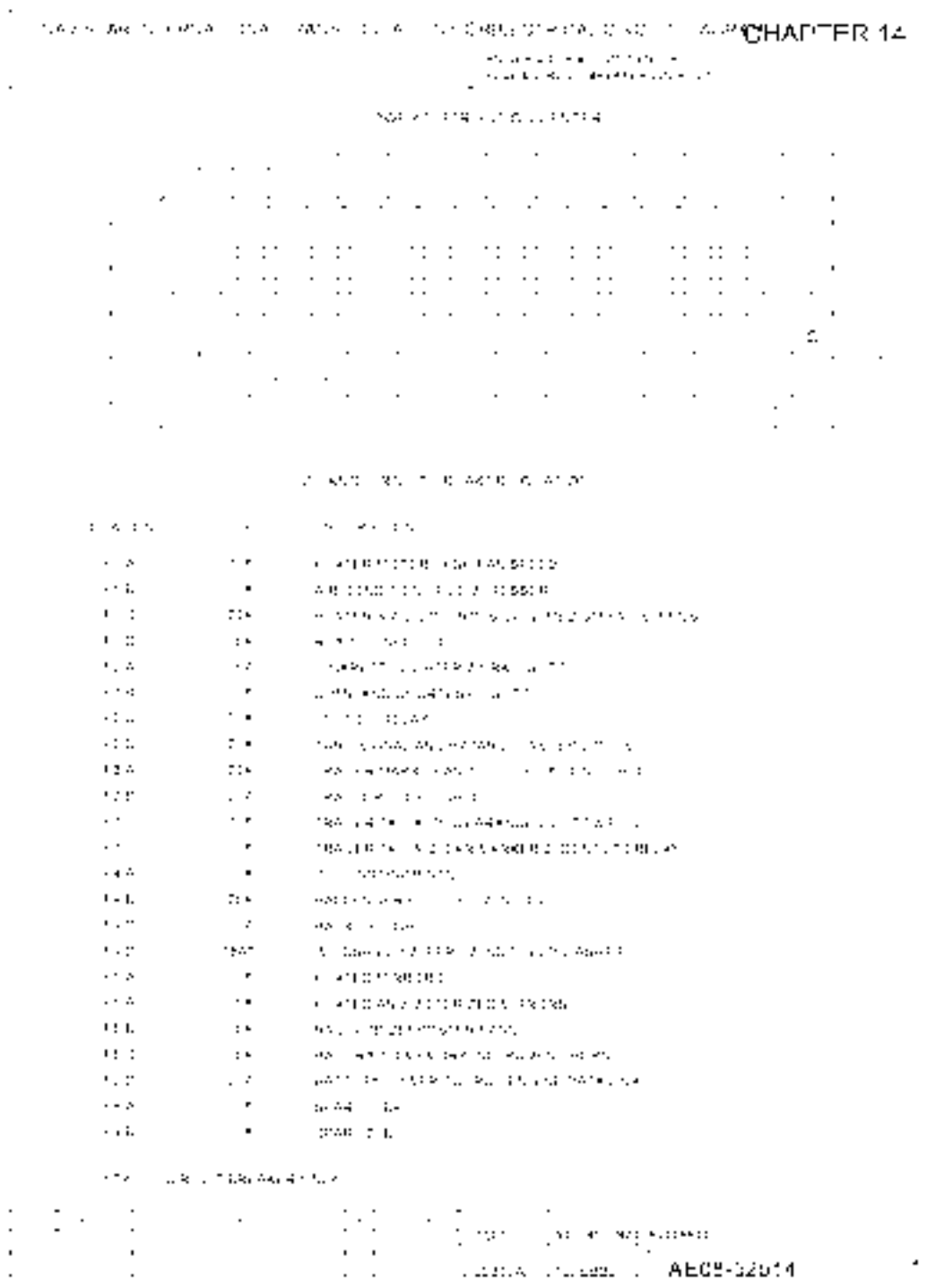


Figure 239 Power Distribution Center, Fuse and Circuit Breaker Location

14.2. FUSE AND CIRCUIT BREAKER LOCATION (CONT.), P. 2

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ELECTRICAL CIRCUIT DIAGRAM CHAPTER 14

FUSE & CIRCUIT BREAKER LOCATION (CONTINUED)

LOCATION	SIZE	DESCRIPTION
F6-C	30A	A3 - ACCESSORY RELAY FOR A3-ADAPTER
F6-D	20A	ENGINE ECM POWER (CAT)
F6-D	5A••	ENGINE ECM POWER (CUMMINS,DETROIT)
F7-A	25A	KEY SWITCH CIRCUIT & RELATED RELAYS FOR IGN & ACC
F7-B	15A	TRAILER LEFT TURN LIGHTS & INDICATOR BULB
F7-C	15A	TRAILER RIGHT TURN LIGHTS & INDICATOR BULB
F7-D	30A	TRAILER STOP LIGHTS
F8-A	10A•	HEADLIGHT SWITCH RELAY FEED
F8-B	25A•	HEADLIGHT FEED
F8-C	15A	LIGHTS PANEL-MIRROR,CAB CLEAR,TRACTOR PARK & TAIL
F8-D	20A	SLEEPER-DOME,READING & LUGGAGE LIGHTS
F9-A	10A	AIR DRYER FEED
F9-B	20A	IGN-DAYTIME RUNNING LIGHTS FEED
F9-C	5A••	BAT-DAYTIME RUNNING LIGHTS FEED
F9-D	10A	HEATER CONTROL MODULE IGNITION FEED
F10-A	15A	TRAILER ABS POWER FEED
F10-B	30A	WIPER-WASHER/ACCESSORY

THE FOLLOWING FUSE AND CIRCUIT BREAKERS (LOCATIONS F10-C THRU F13-D) ARE OPTIONAL. LOCATIONS ARE CHOSEN BY COMPUTER SOFTWARE PROGRAM ACCORDING TO CUSTOMER ORDER. SEE POWER DISTRIBUTION CENTER FOR ACTUAL LOCATIONS.

F10-C	10A	FAN DRIVE (DETROIT)
F10-D	15A	OPTIMIZED IDLE-INDICATOR LIGHT & ALARM
F11-A	15A	OPTIMIZED IDLE-IGNITION RELAY & THERMOSTAT
F11-B	20A	FUEL SOLENOID W/3406C MECH
F11-C	20A	KYSOR SHUTDOWN W/3406C MECH
F11-D	5A••	ENGINE DATA LINK W/3406C MECH
F12-A	15A	ENGINE BRAKE W/3406C MECH
F12-B	15A	BUNK AUXILIARY BLOWER
F12-C	10A	EXHAUST PYROMETER
F12-D	10A	ETHER START
F13-A	20A	FOG LIGHTS
F13-B	30A	BENDIX ABS BATTERY
F13-C	5A	BENDIX ABS IGNITION
F13-D	10A	WABCO ABS IGNITION
F14-A	10A	IGN - WABCO ABS
F14-B	10A	ANALOG CLOCK
F14-C	30A	SPARE SWITCH FEED
F14-D	15A	KYSOR LOW COOLANT
	10A	MERITOR G SERIES XMSN
	5A	REFRIGERATOR
	10A	DRIVER HEATED SEAT
	10A	PASSENGER HEATED SEAT

• TYPE I CIRCUIT BREAKER ONLY
•• FUSE ONLY

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
CNA	12MAY04	F13-C FUSE WAS 10A	C	50337C	U00EDL2	5000/9100/9200/9400/9900
BENDIX ABS		TRACTION CONTROL.			RELEASE NO. P50317A	DATE 12FEB99 — PART NO. AE08-52514 — SHEET 02

Figure 240 Power Distribution Center, Fuse and Circuit Breaker Location (Cont.)

14.3. RELAY LOCATION, P. 3

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ELECTRICAL CIRCUIT DIAGRAM CHAPTER 14

RELAY LOCATION

LOCATION	DESCRIPTION
R1	IGNITION
R2	HIGH SPEED FAN
R3	MEDIUM SPEED FAN
R4	HEADLIGHT
R5	HEATER CONTROL
R6	AIR CONDITIONER
R7	HORN
R8	TRAILER MARKER
R9	TRAILER TAIL
R10	TRAILER STOP
R11	LEFT TURN
R12	RIGHT TURN
R13	ELECT WIPER/INTERMITTANT
R14	ELECT WIPER MOTOR
R15	A/C CONTROL RELAY
R16	ACCESSORY FEED RELAY
R17	AIR DRYER
R18	BUNK AUX BLOWER
R19	FOG LIGHTS
R20	RELAY CONTROL ACC ADAPTER
R21	ABS TRAILER RELAY

THE FOLLOWING RELAYS (LOCATIONS R22 THRU R30) ARE OPTIONAL. LOCATIONS ARE CHOSEN BY COMPUTER SOFTWARE PROGRAM ACCORDING TO CUSTOMER ORDER. SEE POWER DISTRIBUTION CENTER FOR ACTUAL LOCATIONS.

R22	ABS IGNITION OR BATTERY (N/ABS-6)
R23	ABS WARNING LIGHT (N/ABS-6)
R24	ABS ENGINE BRAKE INTERRUPT
R25	SPARE ACC RELAY SWITCH
R26	KYSOR SHUTDOWN
R27	ABS BATTERY
R28	
R29	
R30	

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
CNA	12MAY04	VTT//ADDED (N/ABS-6)	A	50337C	U00EDL2	5000/9100/9200/9400/9900
	DESCRIPTION TO R22 & R23.				RELEASE NO. P50317A	DATE 12FEB99 — PART NO. AE08-52514 — SHEET 03

Figure 241 Relay Location

14.4. PRO SLEEPER FUSE INDEX, P. 4

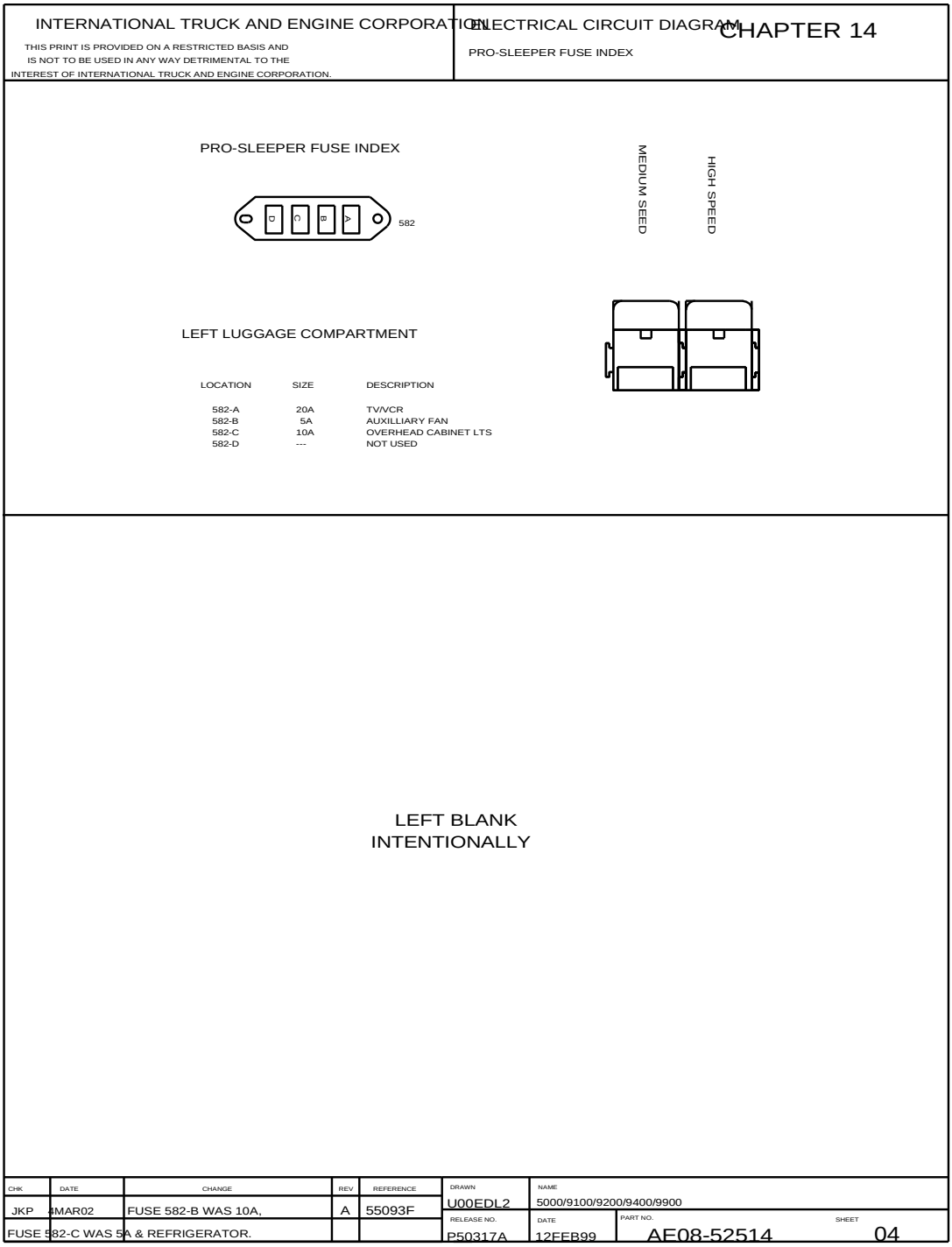

Figure 242 Pro Sleeper Fuse Index