

7. GAUGES WITH AND WITHOUT INTEGRAL WARNING LIGHT (CHAPTER 7)

7.1. IP/GAUGE LIST, P. 1

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ELECTRICAL CIRCUIT DIAGRAM
CHAPTER 7

IP/GAUGES

INSTRUMENT PANEL GAUGES

GAUGE	WARN LIGHT	SIGNAL PATH	SENSOR LOCATION
RPM (TACH)	NO	ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER	ENGINE
MPH/KPH (SPD)	NO	ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER	TRANSMISSION
FUEL	YES	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER	FUEL TANK
VOLT	YES	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER	-
AIR 1 (PRES)	YES	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER	INSIDE CAB-DASH PNL
AIR 2 (PRES)	YES	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER	STEERING COL AREA
WATER (TEMP)	YES	ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER	ENGINE
ENG OIL (TEMP)	YES	ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER	ENGINE
OIL (PRES)	YES	ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER	ENGINE
TRANS (TEMP)	YES	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER	TRANSMISSION
AIR APPLICATION	NO	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER	FWD CHASSIS
REAR AXLE TEMP	YES	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER	AXEL

NOTES:

1. WARNING LIGHTS ARE PART OF THE GAUGES AND LOCATED IN THE GAUGE

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
20SEP05		CONVERSION FROM SABER TO UG	B	59756E	U00JXP9	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS
					RELEASE NO.	DATE
					52778H	09AUG00
					PART NO.	AE08-52371
						SHEET 01

Figure 89 IP/Gauge List

7.2. WARNING LIGHT LIST, P. 2

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ELECTRICAL CIRCUIT DIAGRAM

WARNING LIGHTS LIST

CHAPTER 7

IP WARNING LIGHTS			
WARNING LIGHT TITLE	SIGNAL PATH	SENSOR LOCATION	
RANGE INHIBITED	TRANS CTRLR/DRIVE TRAIN J1939/CLUSTER		
FUEL FILTER	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER	FUEL FILTER	
ENGINE (YELLOW LED)	ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER		
ENGINE (RED LED)	ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER		
BRAKE PRESSURE (①)	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER	SWITCH	
BRAKE FLUID	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER	BRK RESEVOIR	
TRAC CTRL	TRUCK ABS CTRLR/DRIVE TRAIN J1939/CLUSTER		
CHECK TRANS	TRANS CTRLR/DRIVE TRAIN J1939/CLUSTER		
TRAILER ABS	TRLR ABS CTRLR/DRIVE TRAIN J1939/CLUSTER		
WASHER FLUID	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER	WASHER BOTTLE	
(LEFT TURN)	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER	TURN SIG SW	
AIR BAG	DISCRETE NOT ON DATA BUS		
WATER IN FUEL	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER	FUEL FILTER	
COOLANT LEVEL	ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER	SURGE TANK	
CHECK ELECT SYS	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER		
PARK (P)	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER	SWITCH	
CRUISE	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER		
ABS	TRUCK CTRLR/DRIVE TRAIN J1939/CLUSTER		
(RIGHT TURN)	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER		
WAIT TO START	ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER		
FASTEN BELTS	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER		
(HIGH BEAM IND)	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER		
COLD AMB PROTEC	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER		
RETARD OVERHEAT	TRANS CTRLR/DRIVE TRAIN J1939/CLUSTER	TRANSMISSION	
CHECK AC	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER		
AUTO NEUTRAL	DISCRETE NOT ON DATA BUS	SWITCH	
ALTERNATOR	DISCRETE NOT ON DATA BUS		
PTO/THROTTLE	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER		
OPTIMIZED IDLE	DISCRETE NOT ON DATA BUS		
SNOW VALVE	DISCRETE NOT ON DATA BUS	SNOW VALVE	
FR AXLE DIFF LOCK	DISCRETE NOT ON DATA BUS	FWD RR AXLE	
RR AXLE DIFF LOCK	DISCRETE NOT ON DATA BUS	RR RR AXLE	
MESSAGE WAIT	DISCRETE NOT ON DATA BUS		
PTO	DISCRETE NOT ON DATA BUS		
CONVERTER TEMP	DISCRETE NOT ON DATA BUS		
TOUCHLOC RELEASE	DISCRETE NOT ON DATA BUS		
PARK FLUID	SYSTEM CTRLR/DRIVE TRAIN		
FR AXLE ENGAGED	DISCRETE NOT ON DATA BUS	TRANSFER CASE	

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
CNA	29SEP03	ADDED FR AXLE ENGAGED.	B	58928U	UD0JXP9	42/43/44/85/9600 & 73/74/7500 CIRC DIAGRAMS
					RELEASE NO.	DATE
					P52778H	09AUG00
						PART NO.
						AE08-52371
						SHEET
						02

Figure 90 Warning Light List

7.3. WARNING LIGHTS CONTROLLED BY ENGINE, TRANSMISSION, ABS CONTROLLER, P. 3

INTERNATIONAL TRUCK AND ENGINE CORPORATION THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF INTERNATIONAL TRUCK AND ENGINE CORPORATION.	ELECTRICAL CIRCUIT DIAGRAM CHAPTER 7 WARNING LIGHTS CONTROLLED BY ENGINE, TRANSMISSION, ABS CONTROLLER																					
THE FOLLOWING WARNING LIGHTS ARE CONTROLLED BY THE ENGINE, TRANSMISSION, OR ABS CONTROLLER OVER THE DATA BUS AND DO NOT HAVE INDEPENDENT CIRCUITRY THAT CAN BE OR NEEDS TO BE SHOWN: DO NOT SHIFT ENGINE (YELLOW LENS) ENGINE (RED LENS) TRAC CTRL CHECK TRANS TRAILER ABS CHECK ELECTR SYS ABS WAIT TO START RETARD OVERHEAT AUTO NEUTRAL OPTIMIZED IDLE																						
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">CHG</th> <th style="width: 15%;">DATE</th> <th style="width: 30%;">CHANGE</th> <th style="width: 10%;">REV</th> <th style="width: 15%;">REFERENCE</th> <th style="width: 15%;">DASH</th> <th style="width: 15%;">NAME</th> </tr> <tr> <td>2005EPO5</td> <td></td> <td>CONVERSION FROM SABER TO UG</td> <td>B</td> <td>59756E</td> <td>U00JXP9</td> <td>42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>RELEASE NO. 52778H</td> <td>DATE 20JUN00 PART NO. AE08-52371 SHEET 03</td> </tr> </table>		CHG	DATE	CHANGE	REV	REFERENCE	DASH	NAME	2005EPO5		CONVERSION FROM SABER TO UG	B	59756E	U00JXP9	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS						RELEASE NO. 52778H	DATE 20JUN00 PART NO. AE08-52371 SHEET 03
CHG	DATE	CHANGE	REV	REFERENCE	DASH	NAME																
2005EPO5		CONVERSION FROM SABER TO UG	B	59756E	U00JXP9	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS																
					RELEASE NO. 52778H	DATE 20JUN00 PART NO. AE08-52371 SHEET 03																

Figure 91 Warning Lights Controlled by Engine, Transmission, ABS Controller

7.4. ENGINE OIL PRESSURE AND TEMP, SPEEDOMETER, TACH, VOLTMETER AND WATER TEMP GAUGE CIRCUITS, P. 4

INTERNATIONAL TRUCK AND ENGINE CORPORATION THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF INTERNATIONAL TRUCK AND ENGINE CORPORATION.	ELECTRICAL CIRCUIT DIAGRAM CHAPTER 7 ENG OIL PRESS & TEMP, SPEEDOMETER, TACH, VOLTMETER & WATER TEMP GAUGE CIRCUITS							
REFER TO CONSOLIDATED ENGINE/VEHICLE CONTROLLER DIAGNOSTICS MANUAL EGES-175 (DT466), EGES-190 (V8-AVNT), FOR CIRCUIT DIAGRAMS SHOWING INPUT CIRCUITRY FOR THE FOLLOWING DATALINK DRIVEN SYSTEM: ENGINE OIL PRESSURE GAUGE ENGINE OIL TEMPERATURE GAUGE SPEEDOMETER GAUGE TACHOMETER GAUGE WATER TEMPERATURE GAUGE								
CHK PEC	DATE 16JAN01	CHANGE PRODUCTION RELEASE.	REV A	REFERENCE P54304U	DRAWN U00JXP9 RELEASE NO. P52778H	NAME 42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS DATE 20JUN00	PART NO. AE08-52371	SHEET 04

Figure 92 Engine Oil Pressure and Temp, Speedometer, Tach, Voltmeter and Water Temp Gauge Circuits

7.5. IP/GAUGES AND WARNING LIGHTS — GAUGE CLUSTER, P. 5

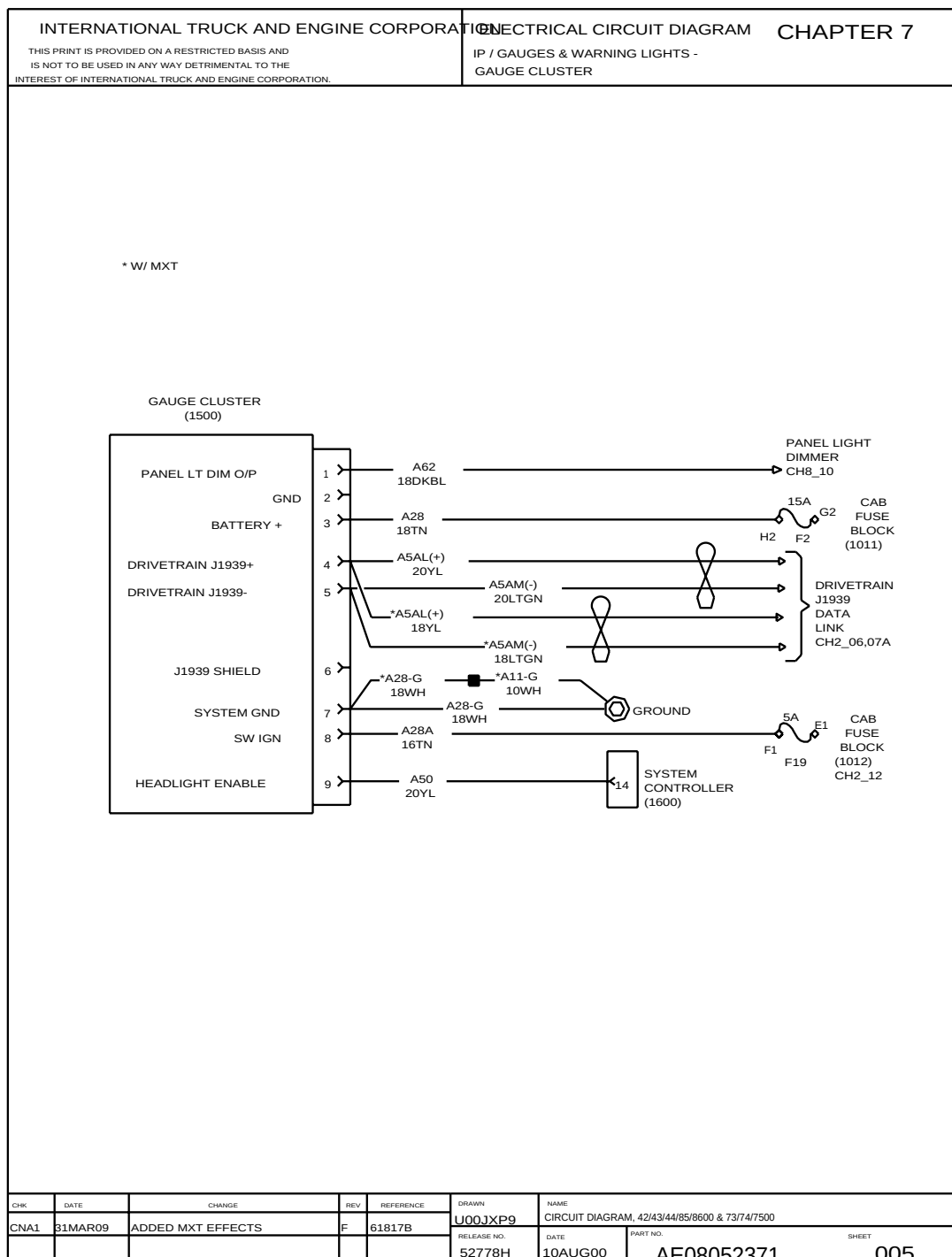


Figure 93 IP/Gauges and Warning Lights — Gauge Cluster

7.6. AIR PRESSURE INPUT CIRCUIT, P. 6

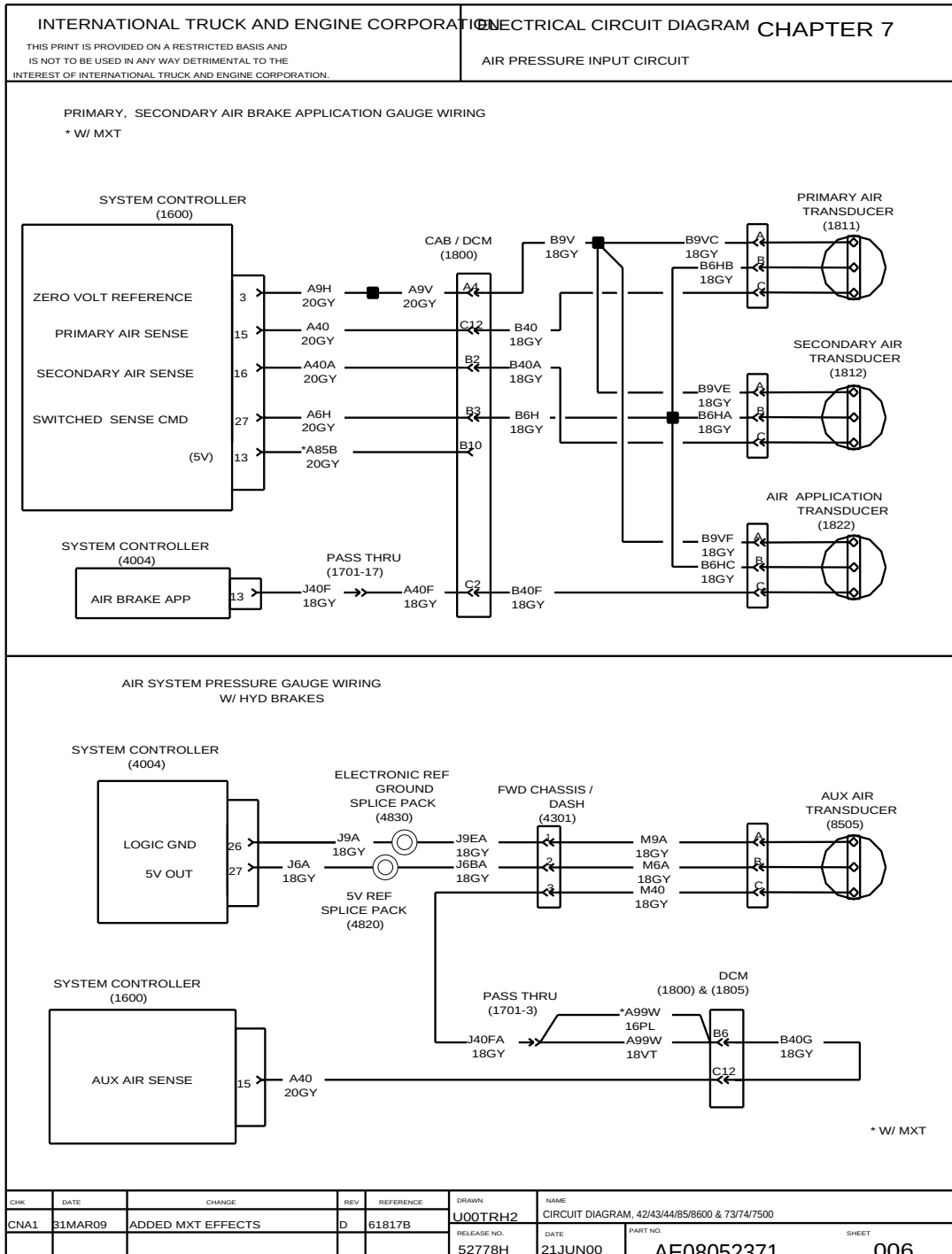


Figure 94 Air Pressure Input Circuit

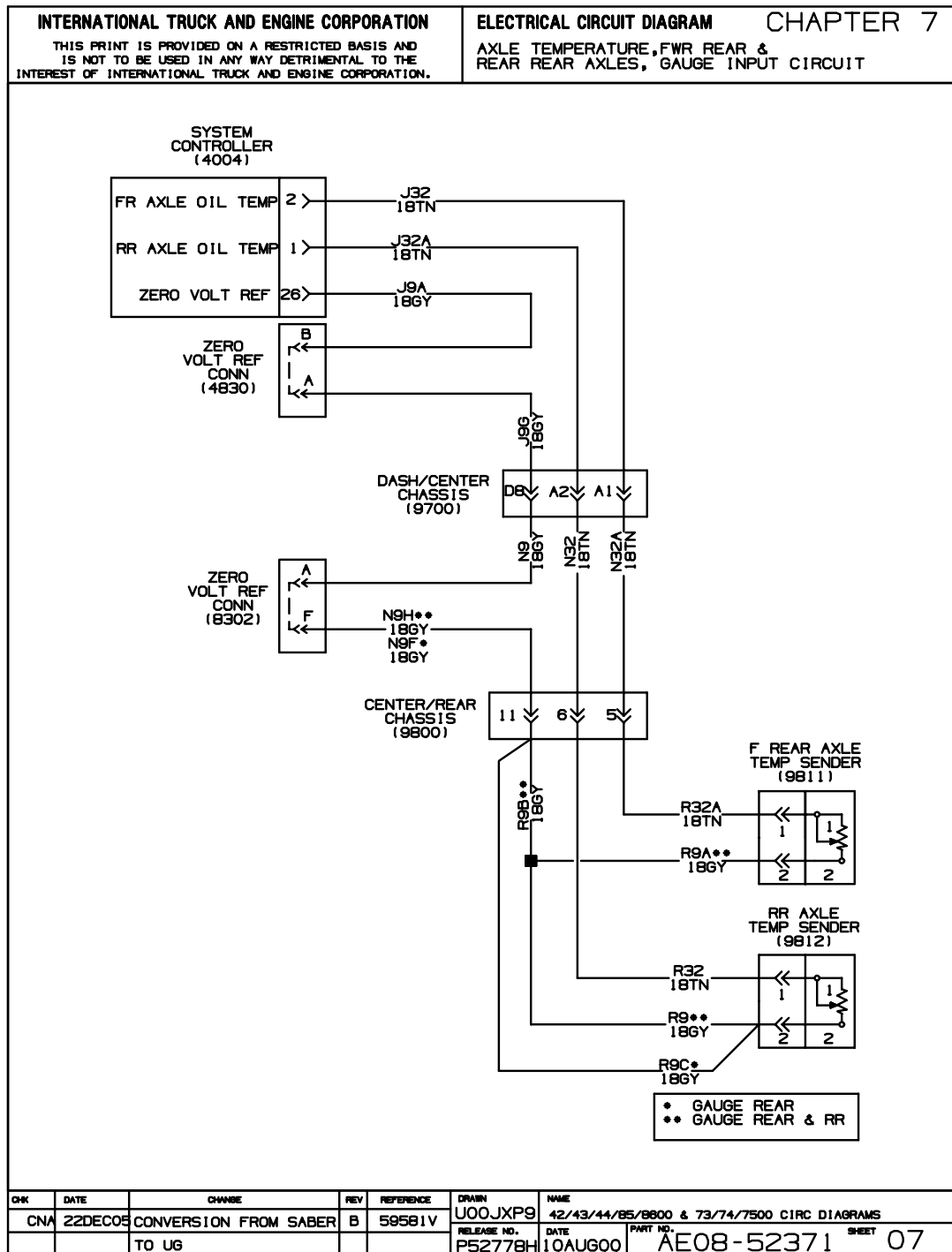
7.7. AXLE TEMPERATURE, FWD REAR AND REAR AXLES, GAUGE INPUT CIRCUIT, P. 7

Figure 95 Axle Temperature, FWD Rear and Rear Axles, Gauge Input Circuit

7.8. FUEL GAUGE INPUT CIRCUIT (SINGLE TANK) DIFFERENTIAL LOCK WARNING LAMPS, P. 8

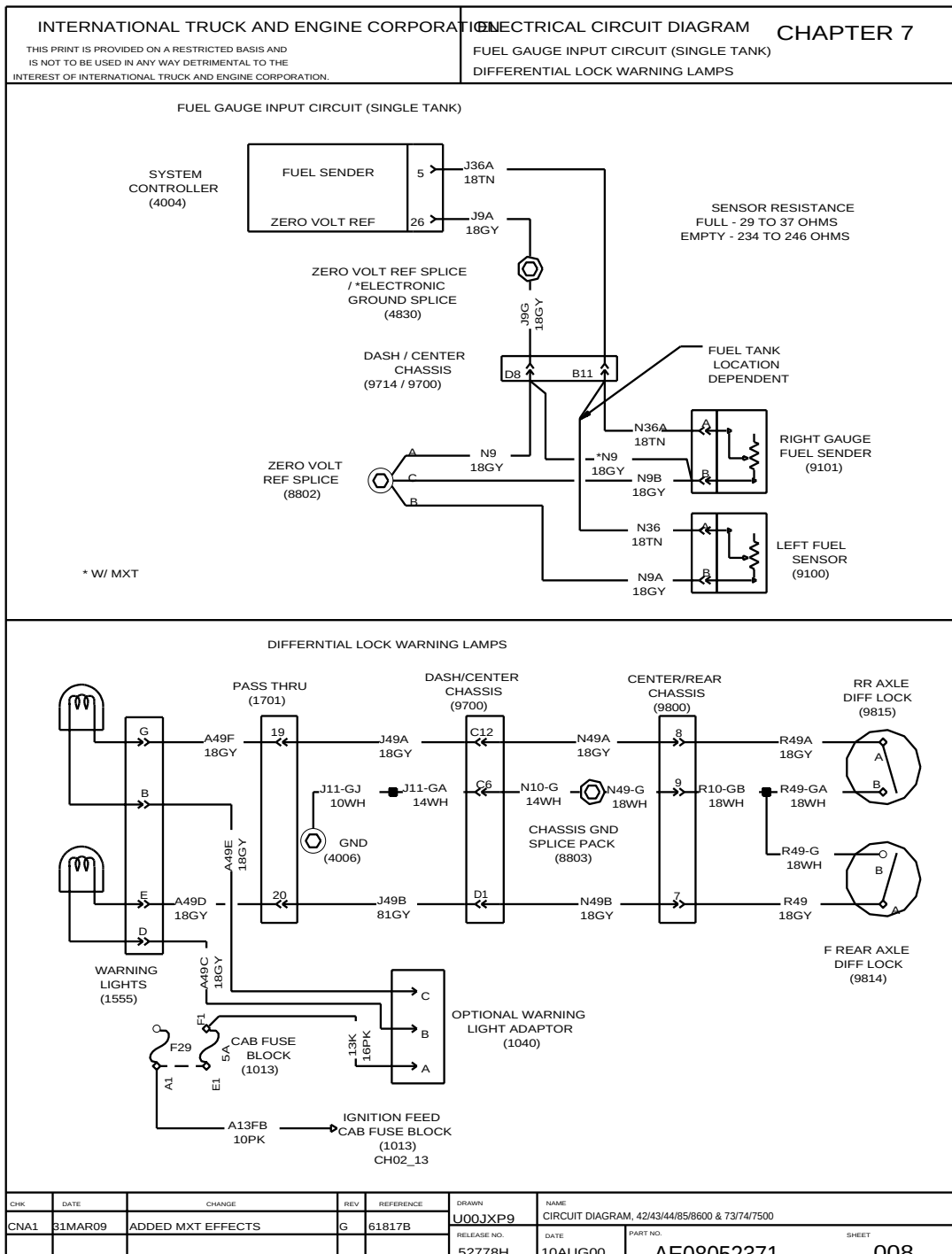


Figure 96 Fuel Gauge Input Circuit (Single Tank) Differential Lock Warning Lamps

7.9. GAUGES AND WARNING LIGHTS — FUEL FILTER HEATER AND WATER IN FUEL LIGHTS, P. 9

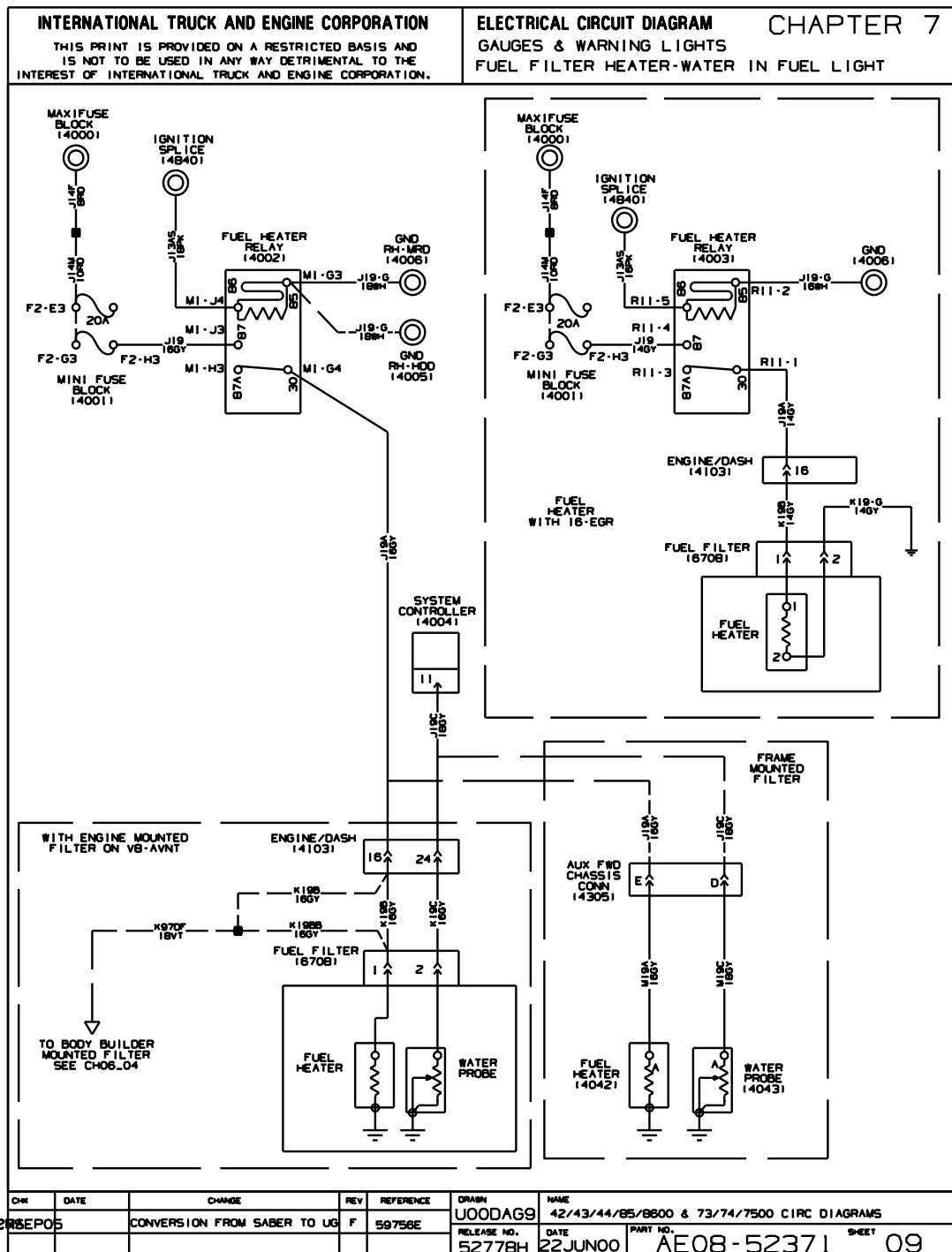


Figure 97 Gauges and Warning Lights — Fuel Filter Heater and Water in Fuel Lights

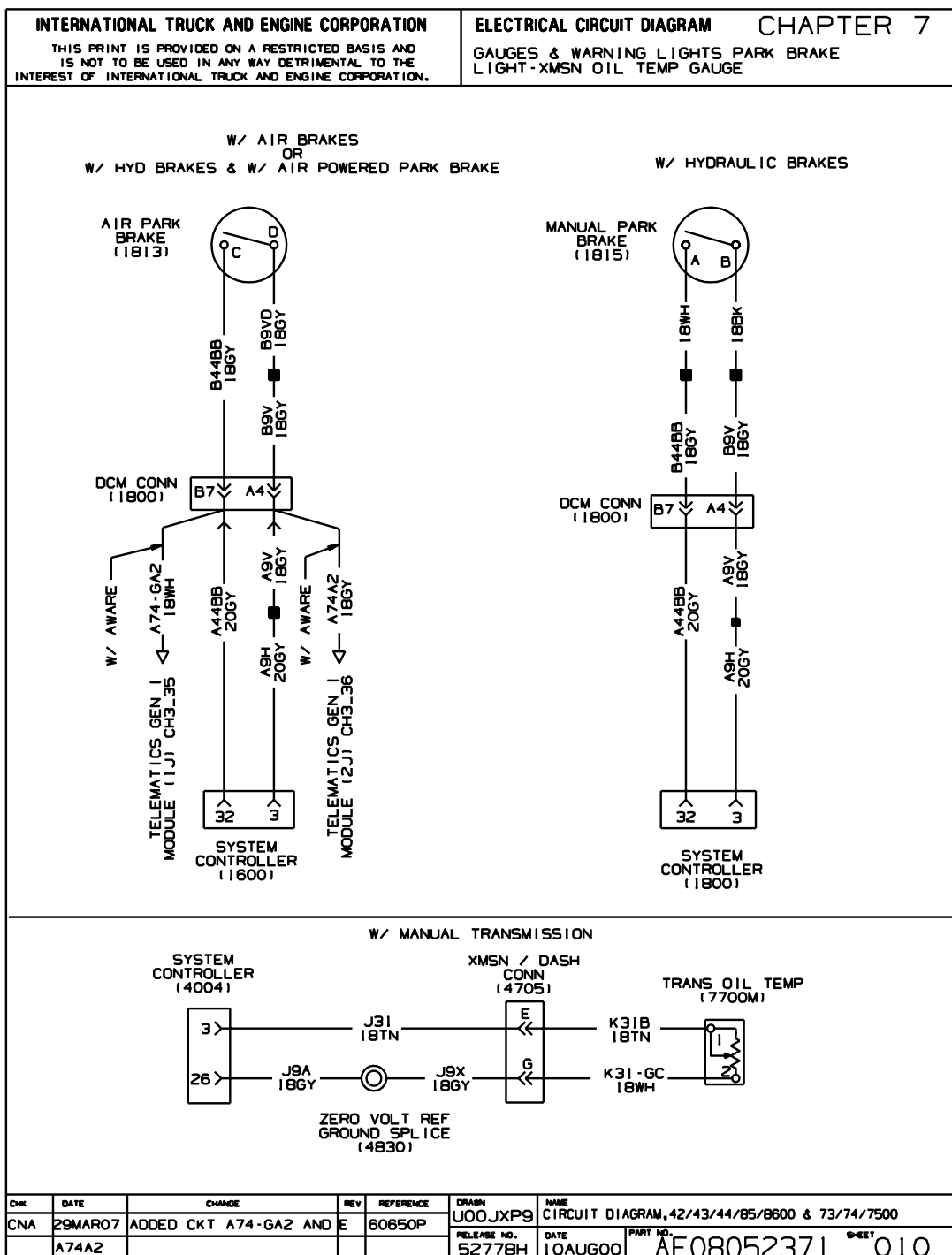
7.10. GAUGES AND WARNING LIGHTS — PARK BRAKE LIGHT AND TRANSMISSION OIL TEMP. GAUGE, P. 10

Figure 98 Gauges and Warning Lights — Park Brake Light and Transmission Oil Temp. Gauge

7.11. GAUGES AND WARNING LIGHTS — AMMETER, P. 11

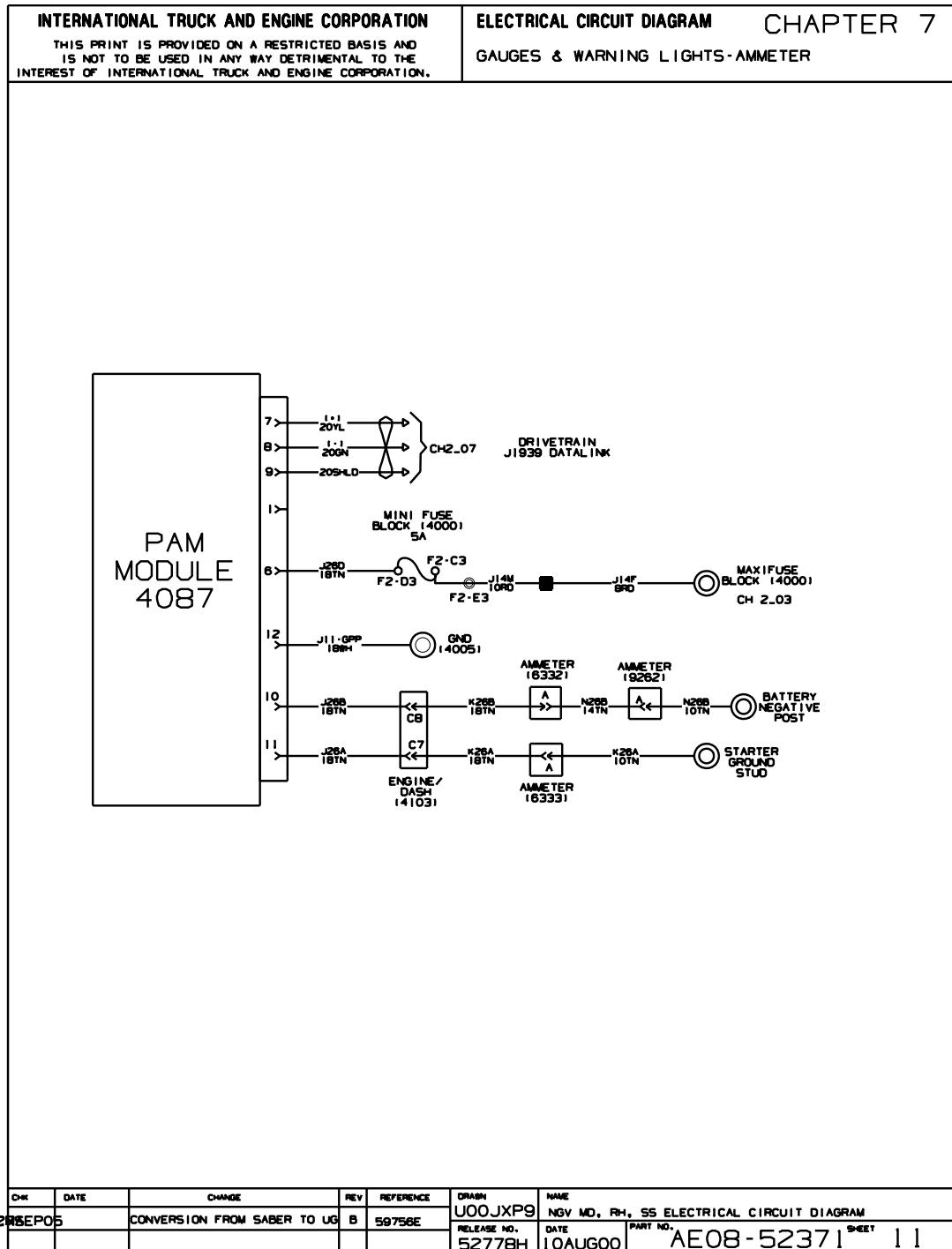


Figure 99 Gauges and Warning Lights — Ammeter

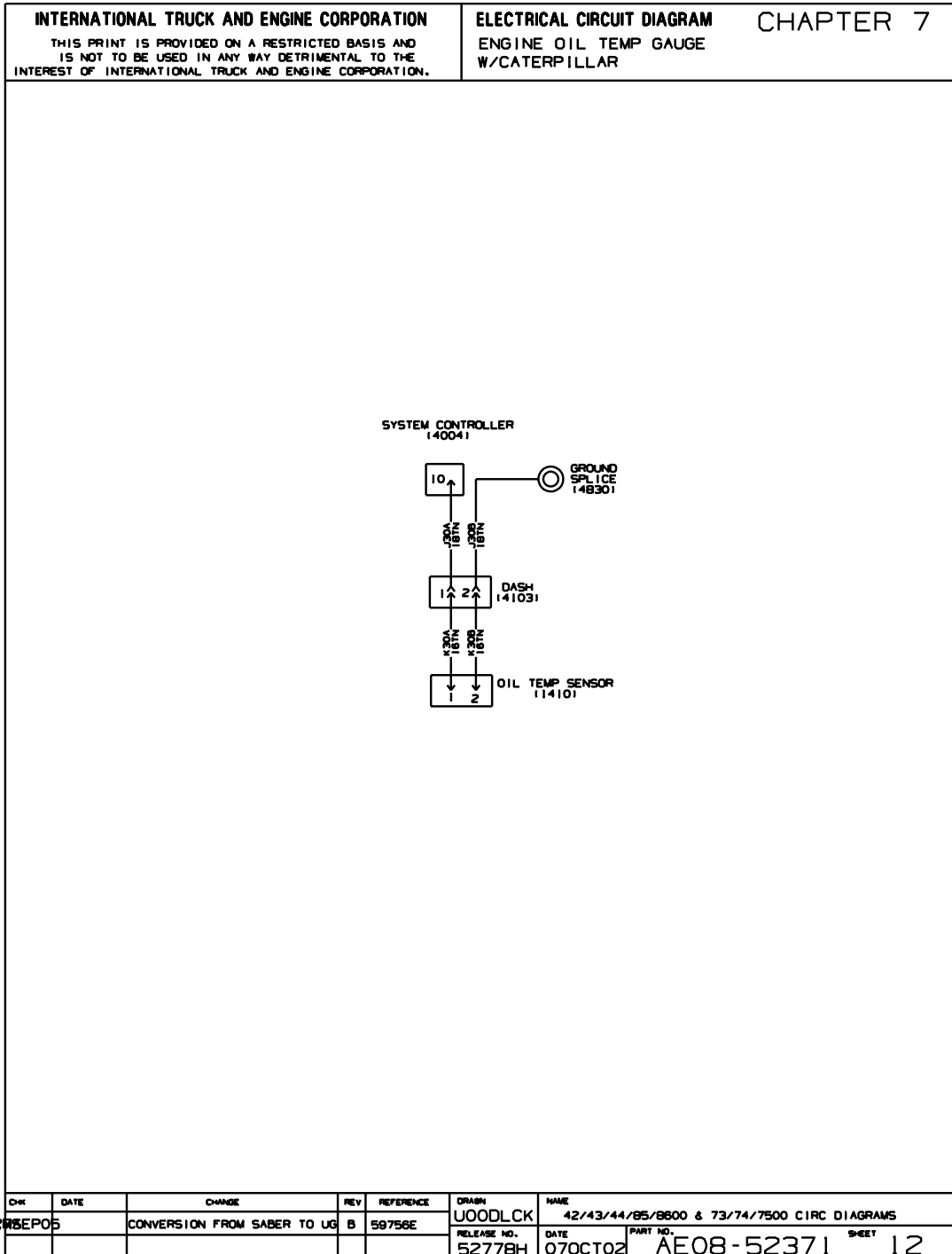
7.12. ENGINE OIL TEMPERATURE GAUGE WITH CATERPILLAR, P. 12

Figure 100 Engine Oil Temperature Gauge With Caterpillar

7.13. FRONT AXLE ENGAGEMENT WARNING LAMP, P. 13

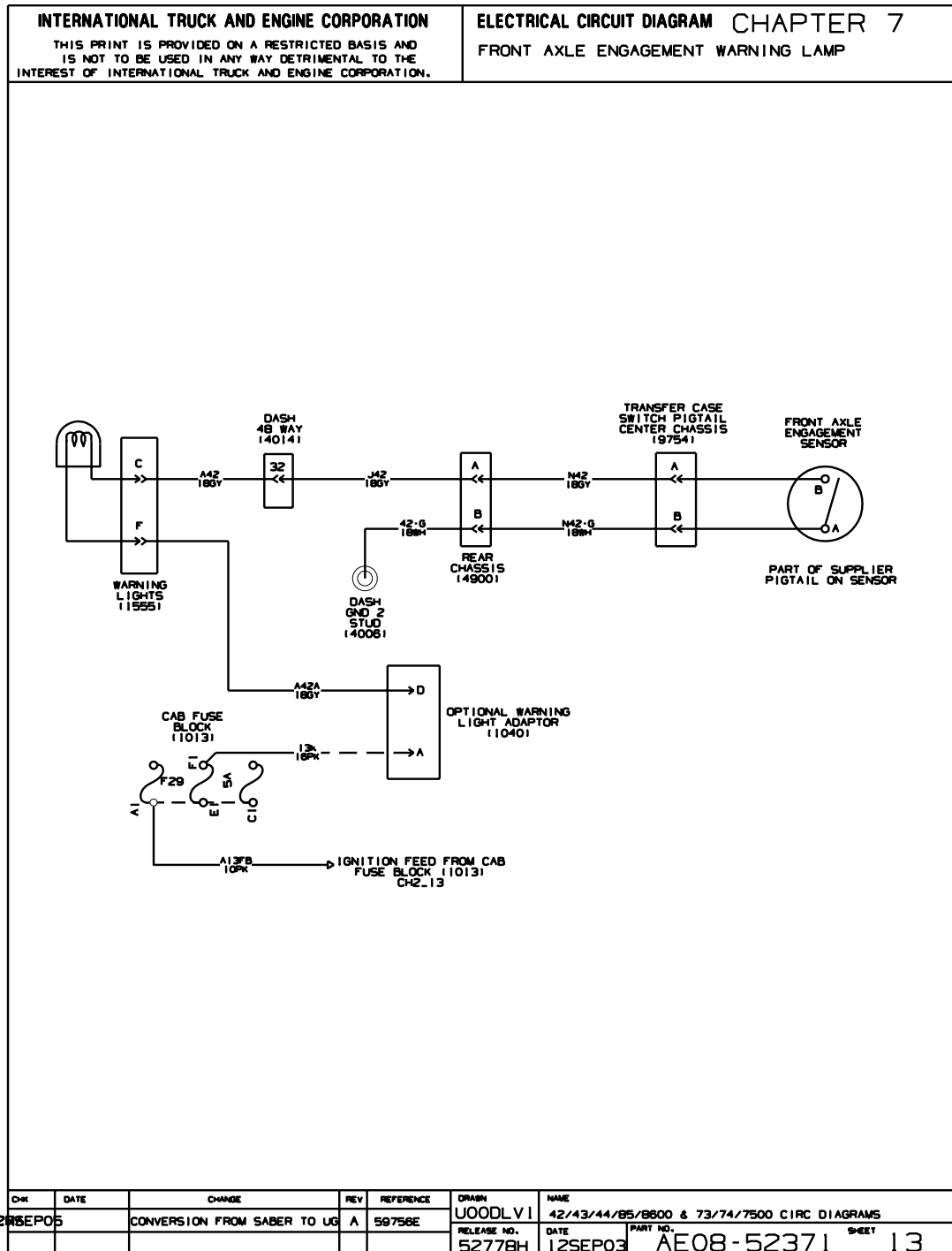


Figure 101 Front Axle Engagement Warning Lamp

8. LIGHTS (CHAPTER 8)

8.1. BACKUP LIGHTS, P. 1

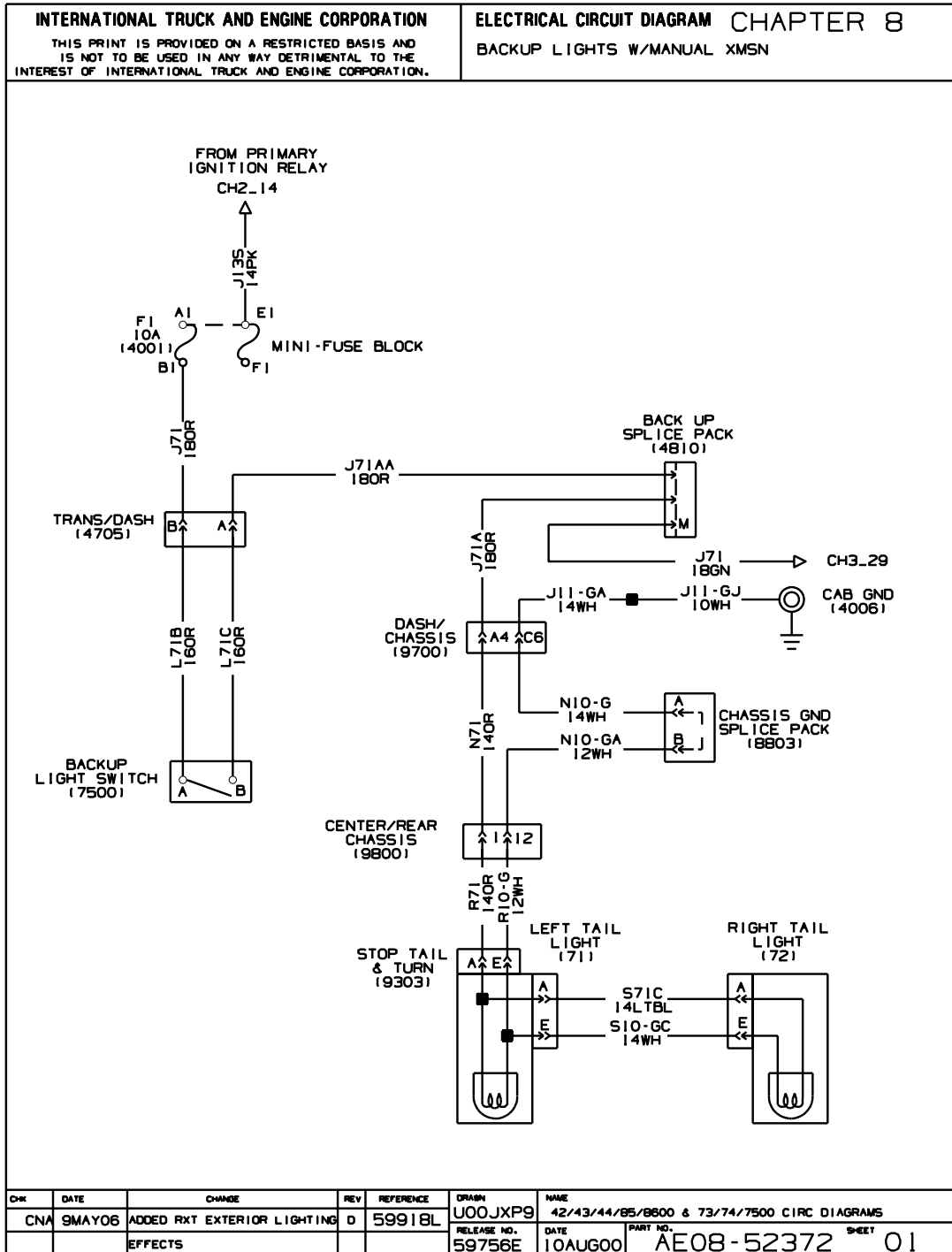


Figure 102 BackUp Lights

8.3. LIGHT SYSTEMS — CLEARANCE, MARKER, PARK, TAIL, TURN AND STOP LAMPS, P. 3

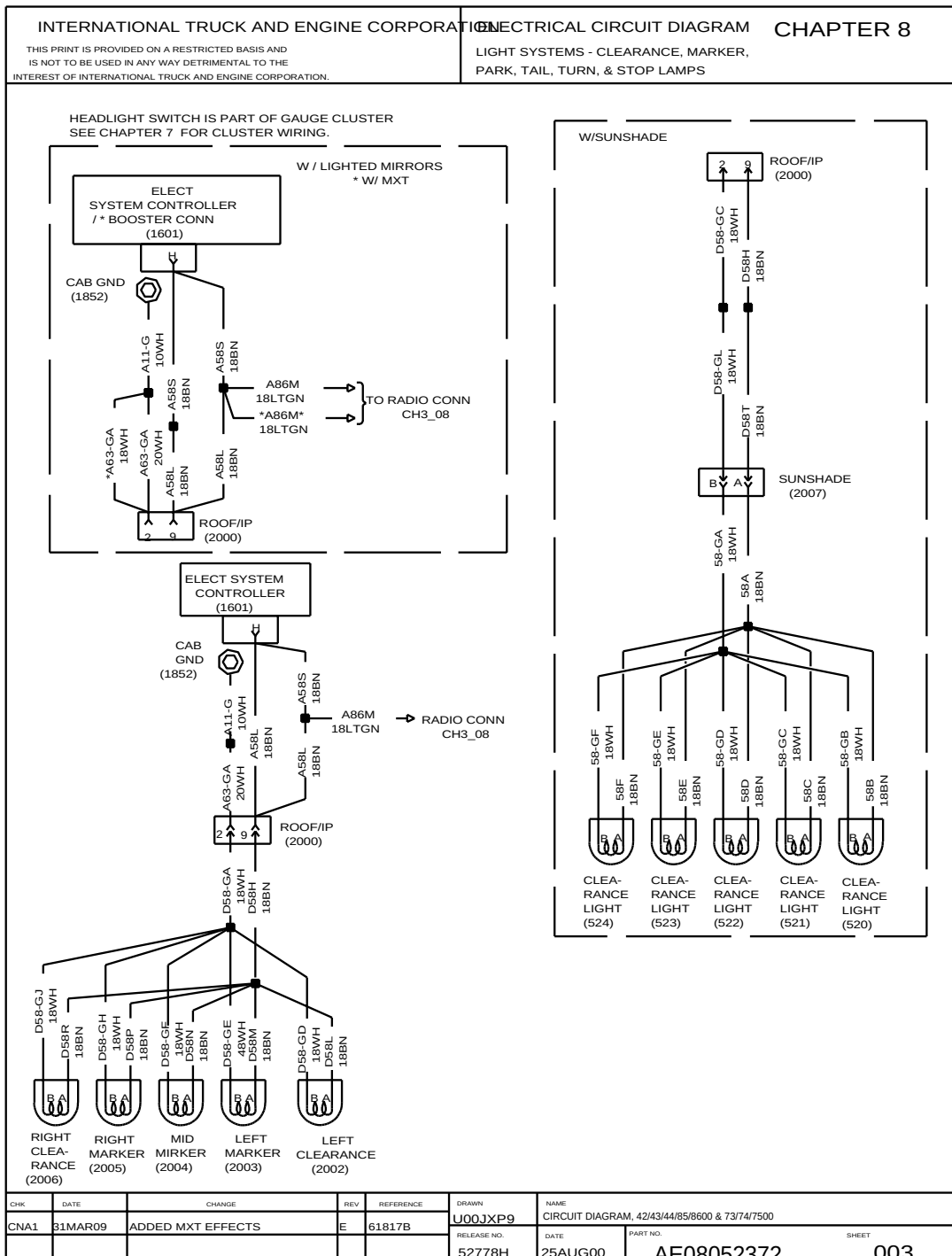


Figure 104 Light Systems — Clearance, Marker, Park, Tail, Turn and Stop Lamps

8.4. LIGHT SYSTEMS — TURN SIGNAL AND STOP SWITCHES, P. 4

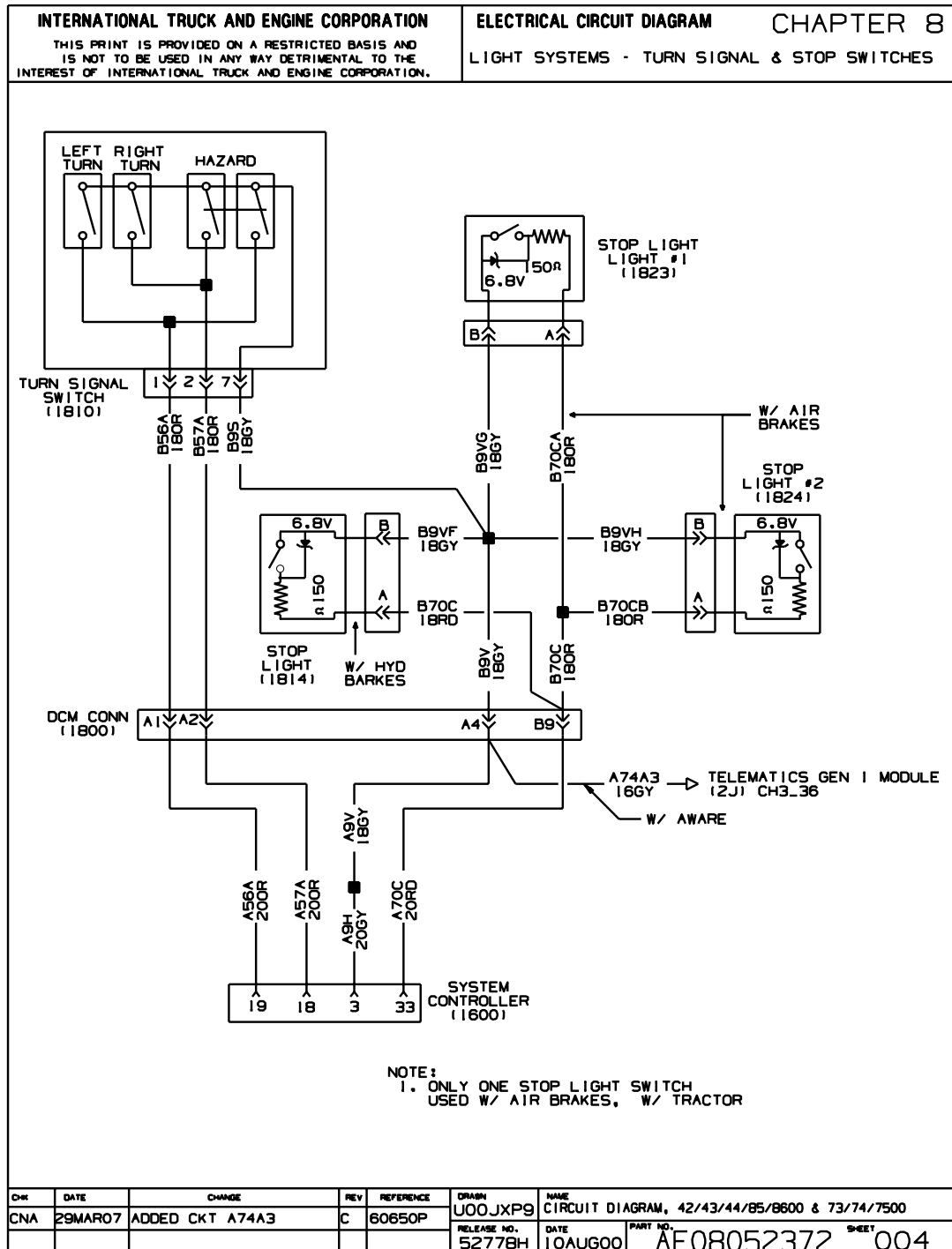


Figure 105 Light Systems — Turn Signal and Stop Switches

8.5. DOME LIGHT, MAP LIGHT, P. 5

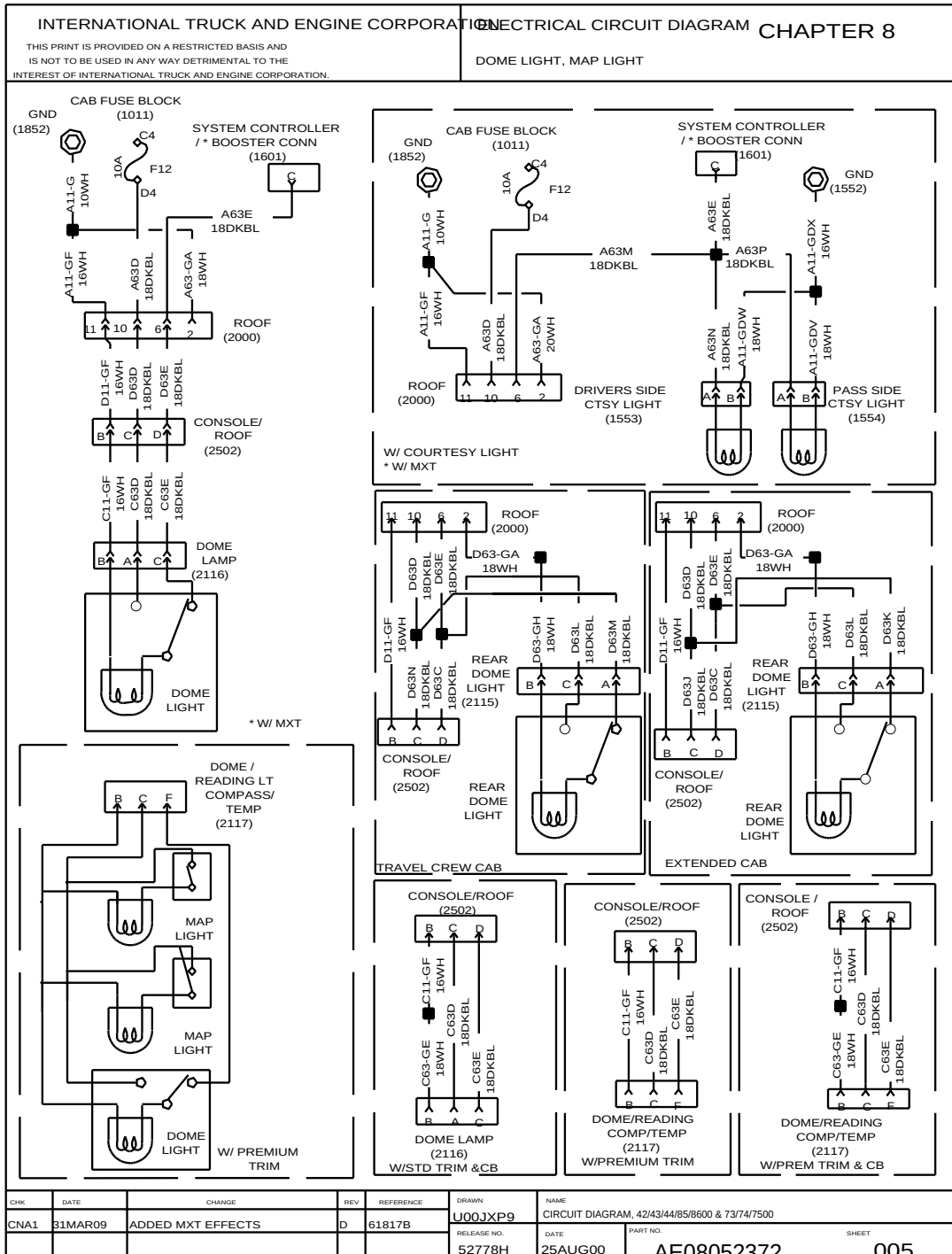


Figure 106 Dome Light, Map Light

8.6. DOME LIGHT, MAP LIGHT (CONT.), P. 6

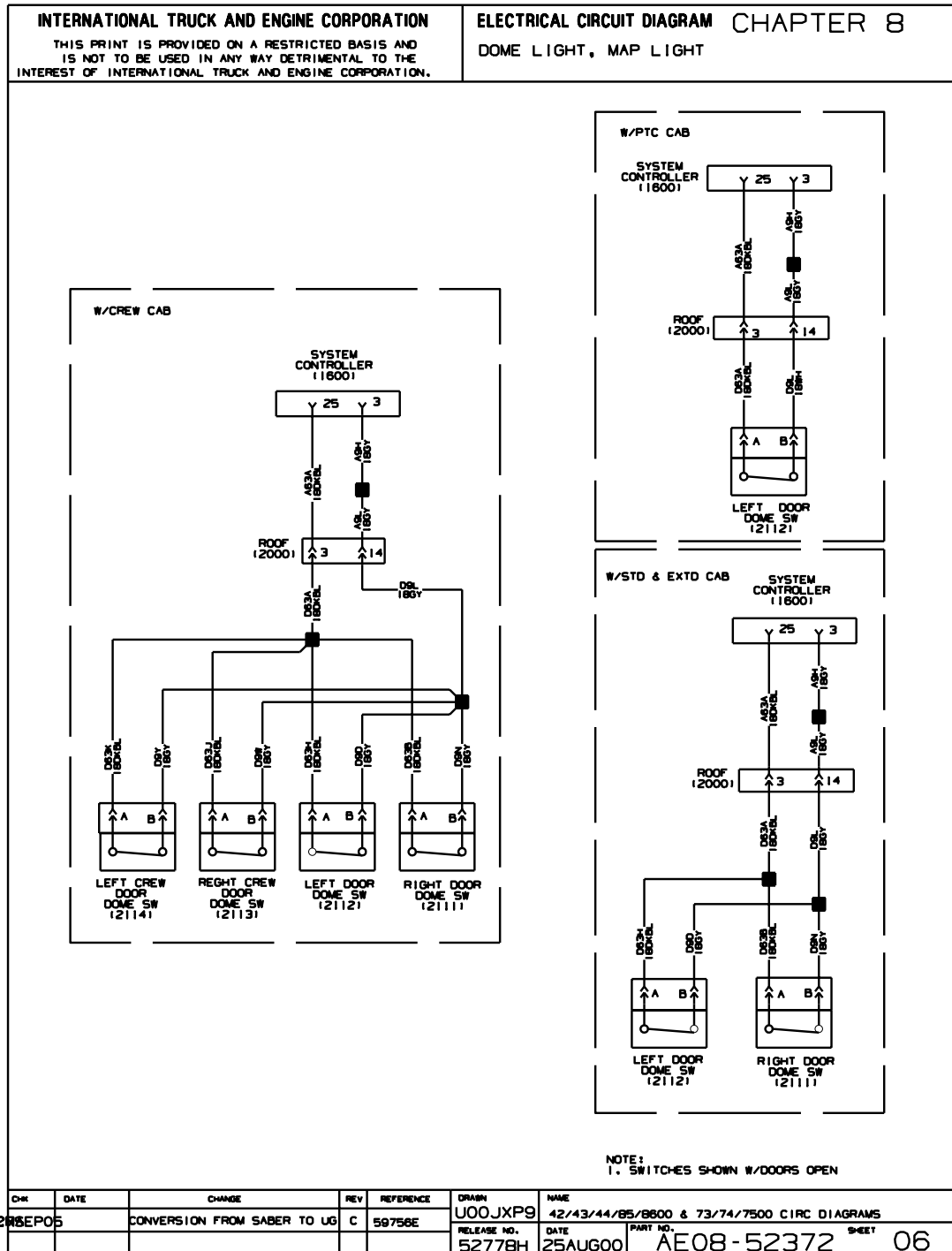


Figure 107 Dome Light, Map Light (Cont.)

8.7. FOG LIGHT AND WORK LIGHT, P. 7

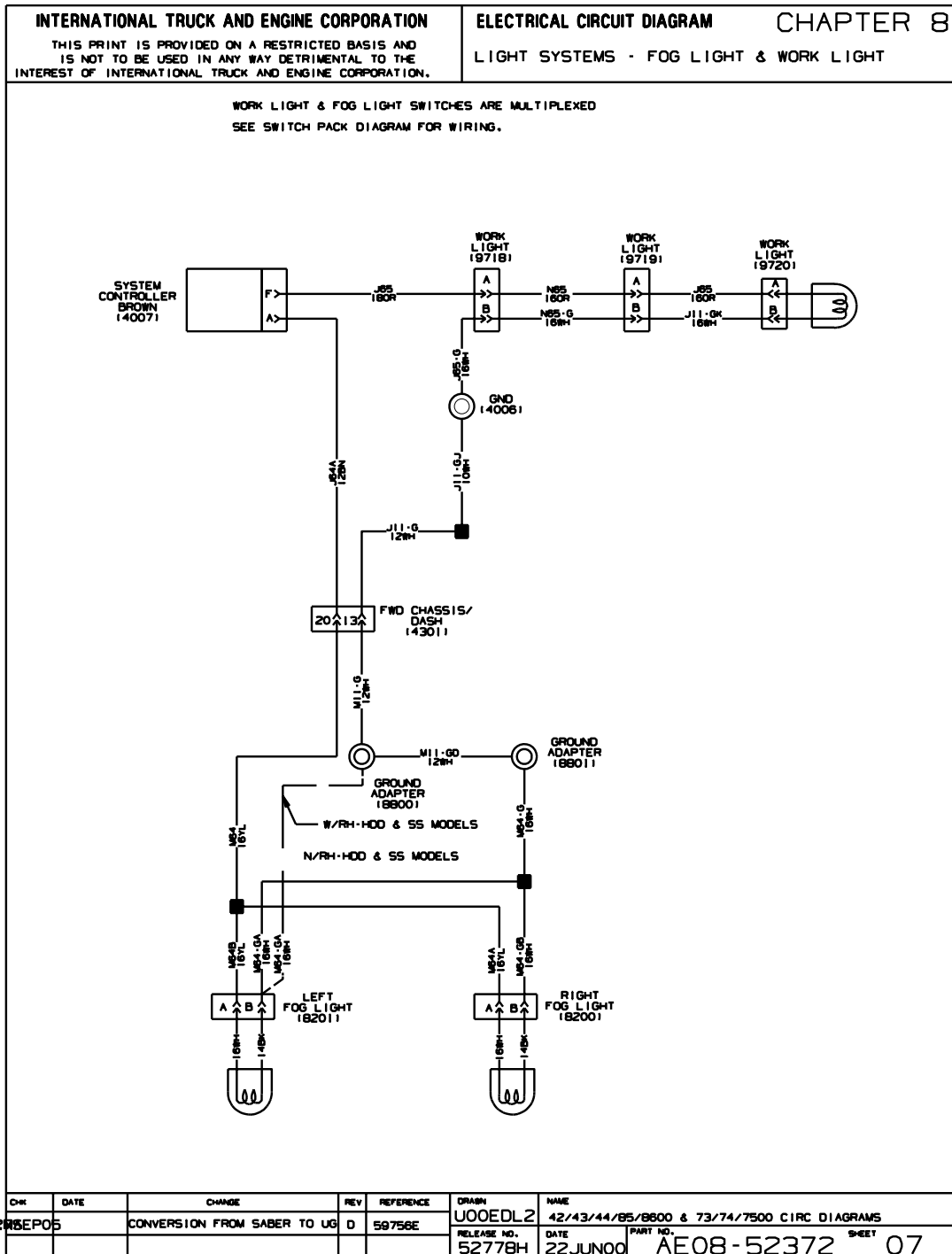


Figure 108 Fog Light and Work Light

8.8. HEADLIGHTS, P. 8

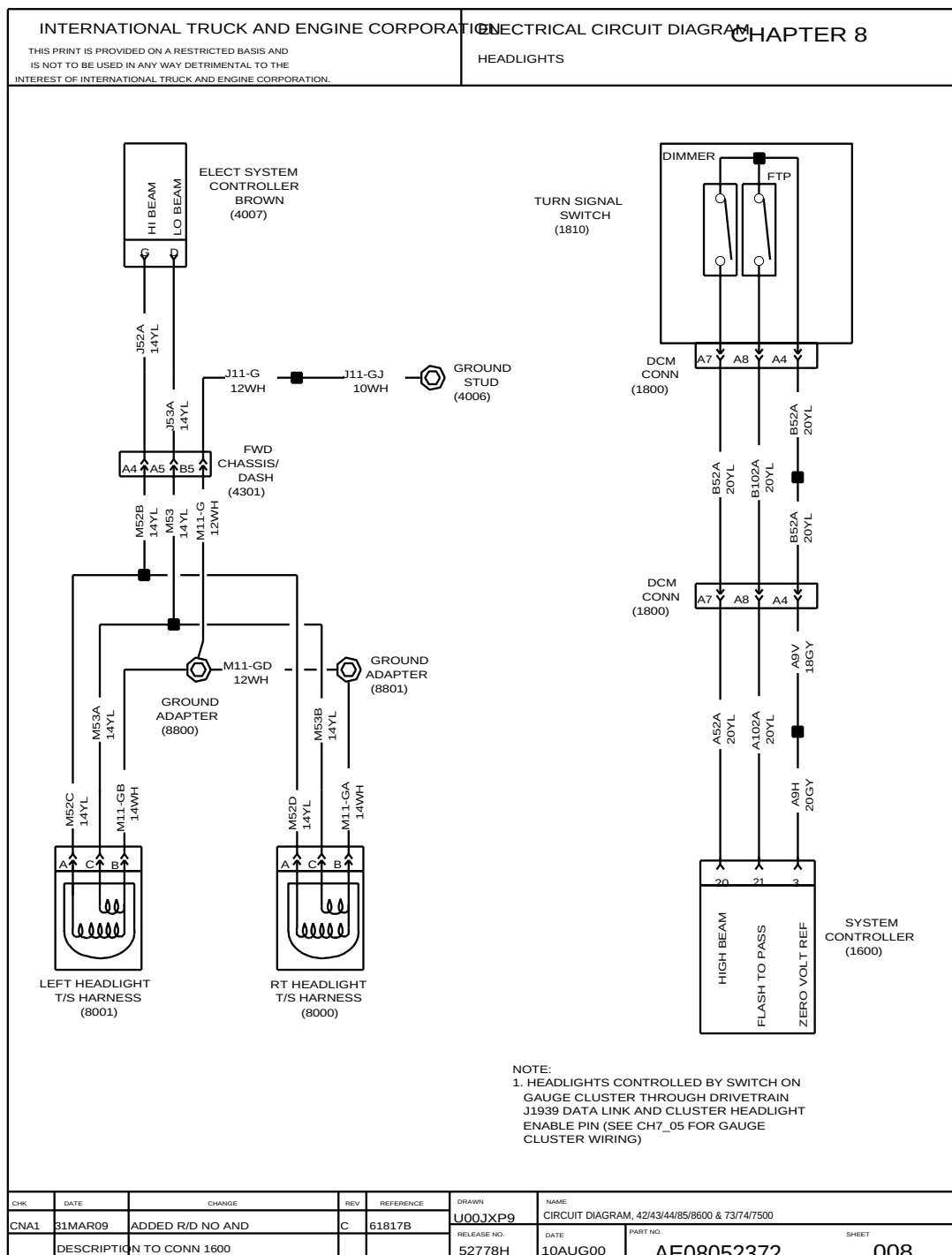


Figure 109 Headlights

8.9. AUX. HEADLIGHTS, AUX. PARK, AUX TURN, P. 9

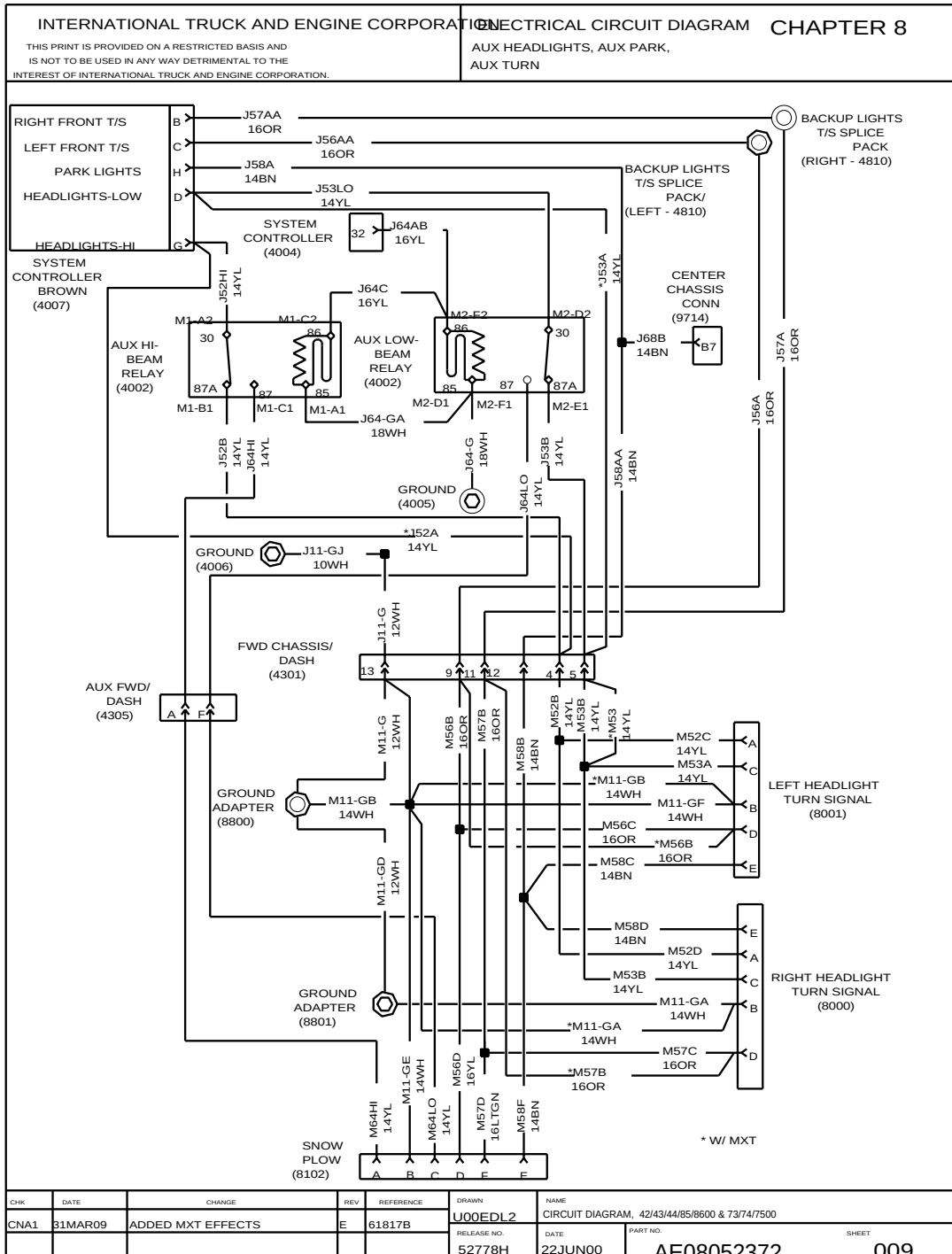


Figure 110 Aux. Headlights, Aux. Park, Aux Turn

8.10. PANEL LIGHTS, P. 10

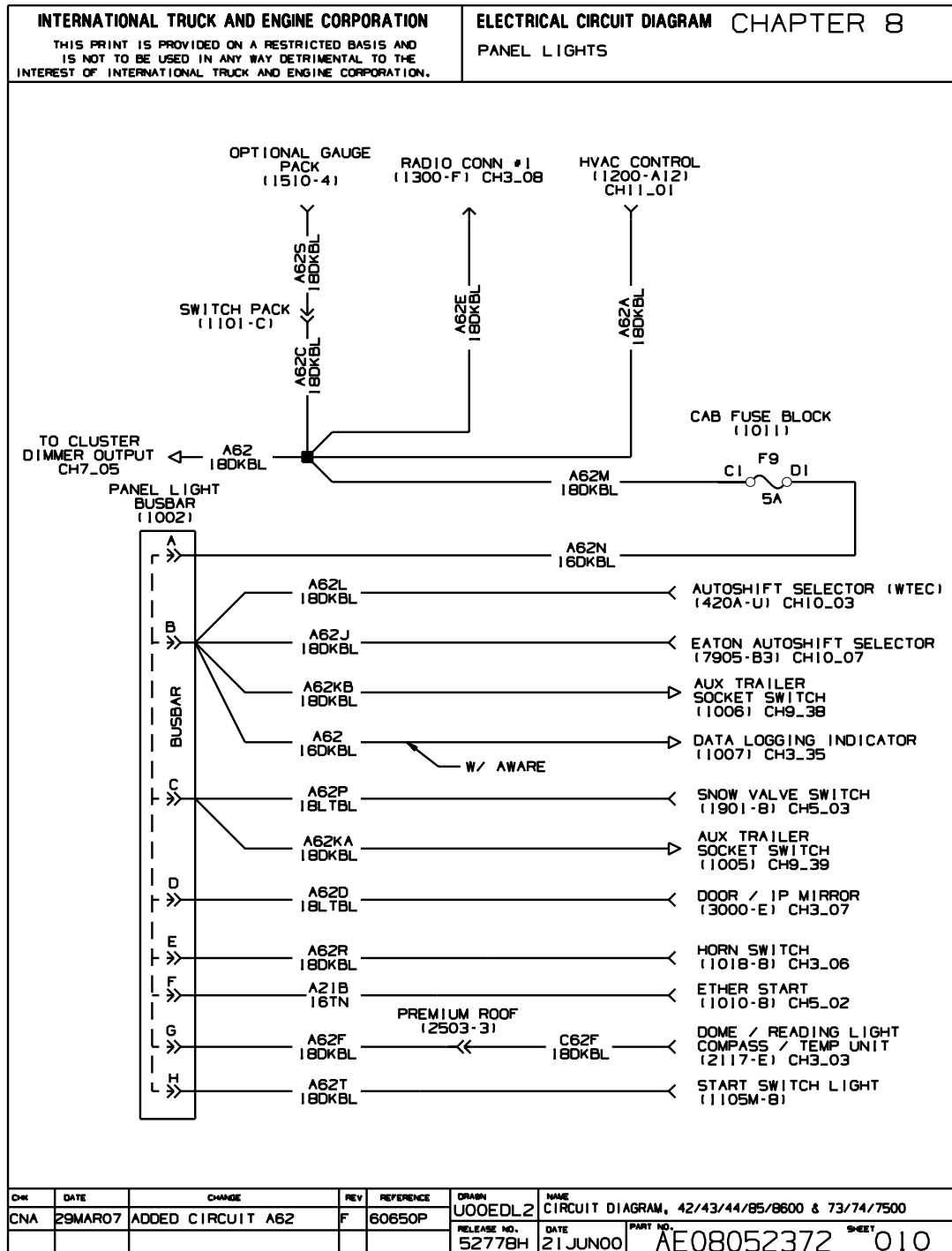


Figure 111 Panel Lights

8.11. RXT EXTERIOR LIGHTING, P. 11

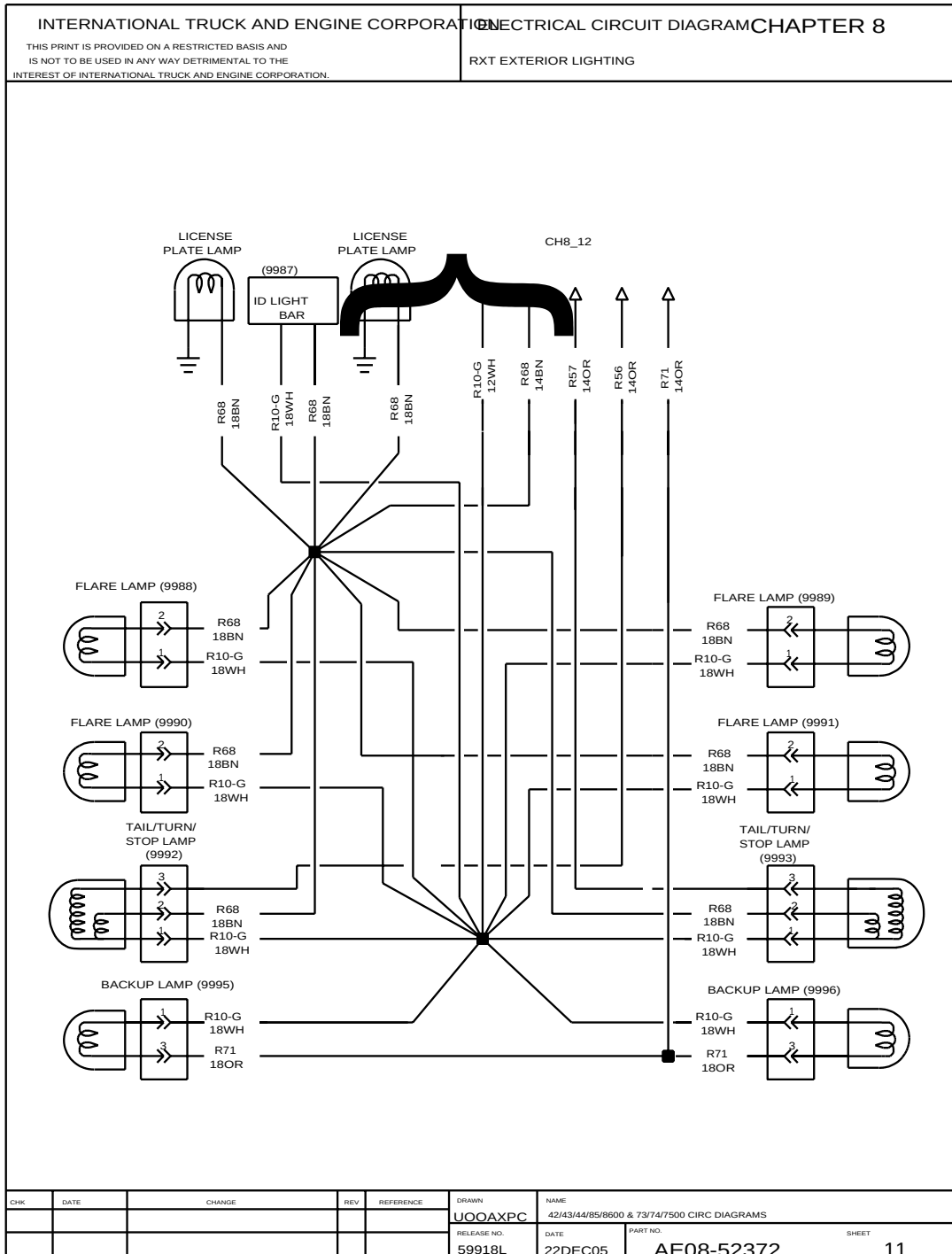


Figure 112 RXT Exterior Lighting

8.12. TAIL, TURN, AND STOP LAMPS, P. 12

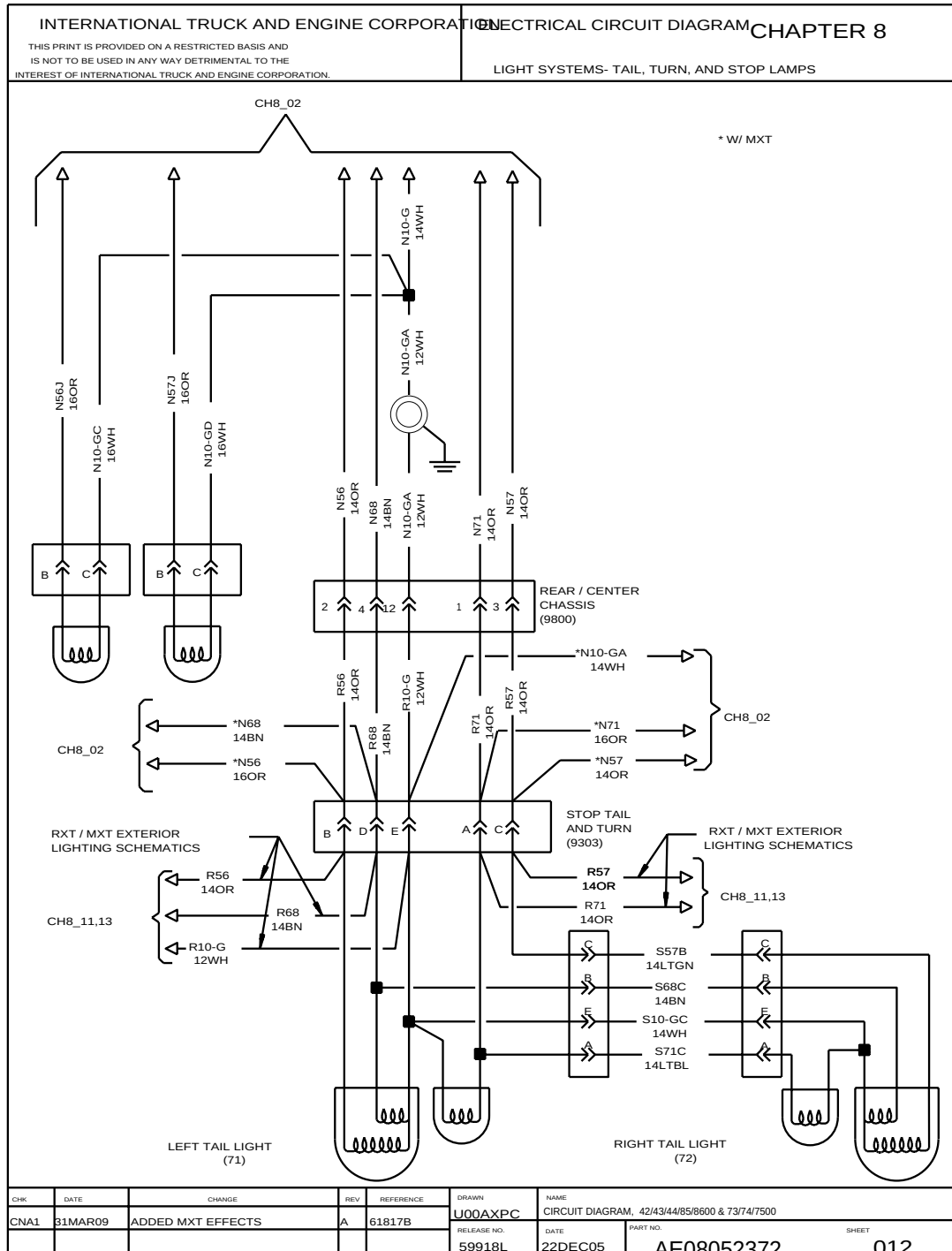


Figure 113 Tail, Turn, and Stop Lamps

8.13. MXT — EXTERIOR LIGHTING, P. 13

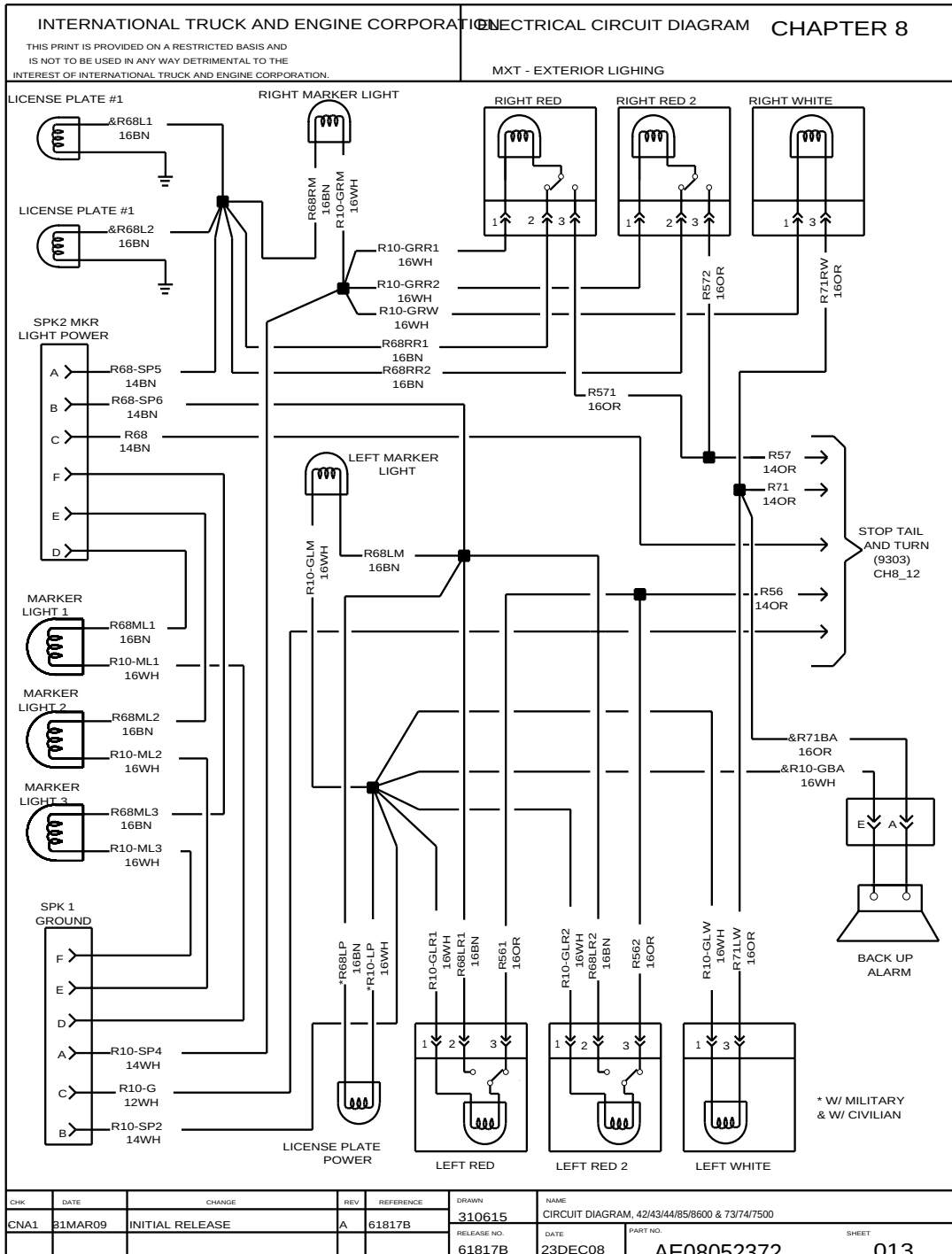


Figure 114 MXT — Exterior Lighting

9. CHASSIS ACCESSORIES (CHAPTER 9)

9.1. AIR DRYER AND HEATED DRAIN VALVE, P. 1

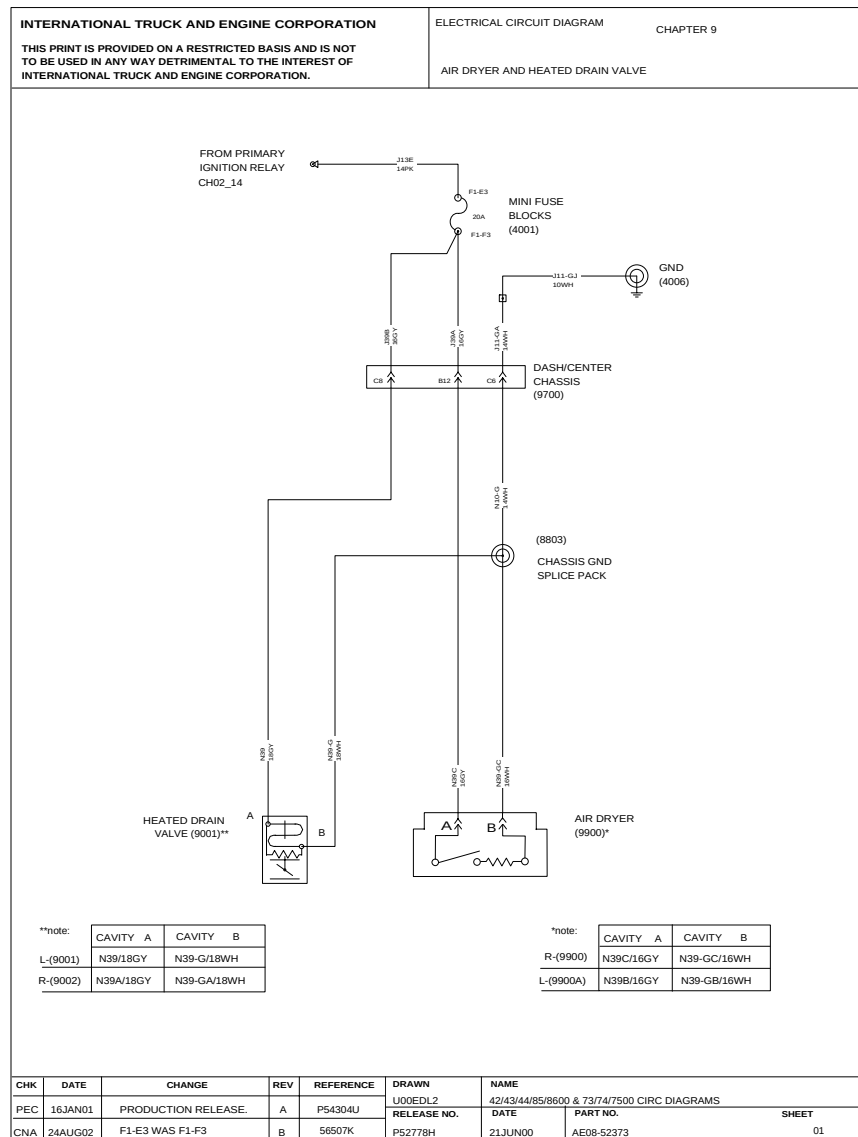


Figure 115 Air Dryer and Heated Drain Valve

9.2. ANTILOCK BRAKE SYSTEM (ABS), AIR, P. 2

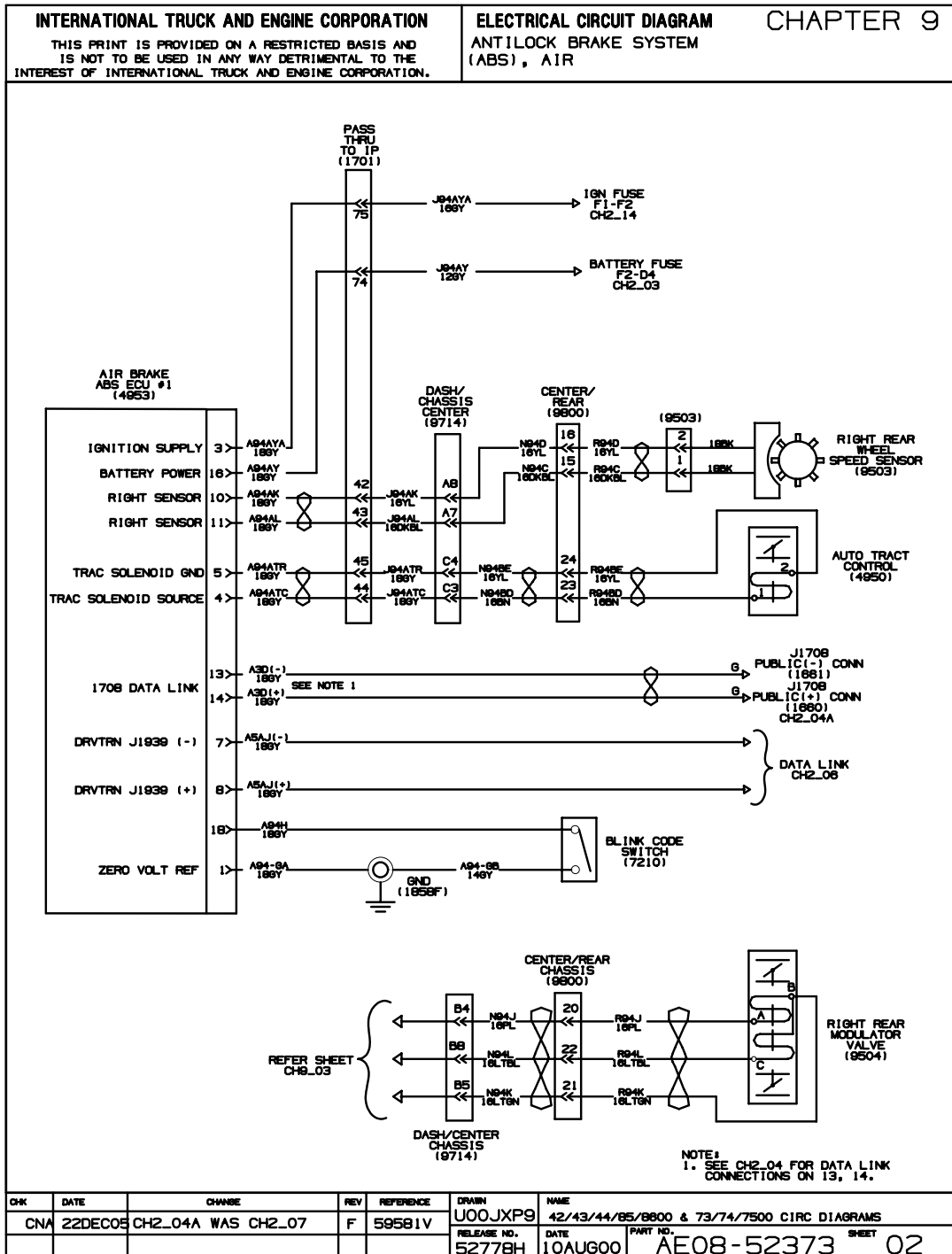


Figure 116 Antilock Brake System (ABS), Air

9.3. ANTILOCK BRAKE SYSTEM (ABS), AIR, TRACTION CONTROL, P. 3

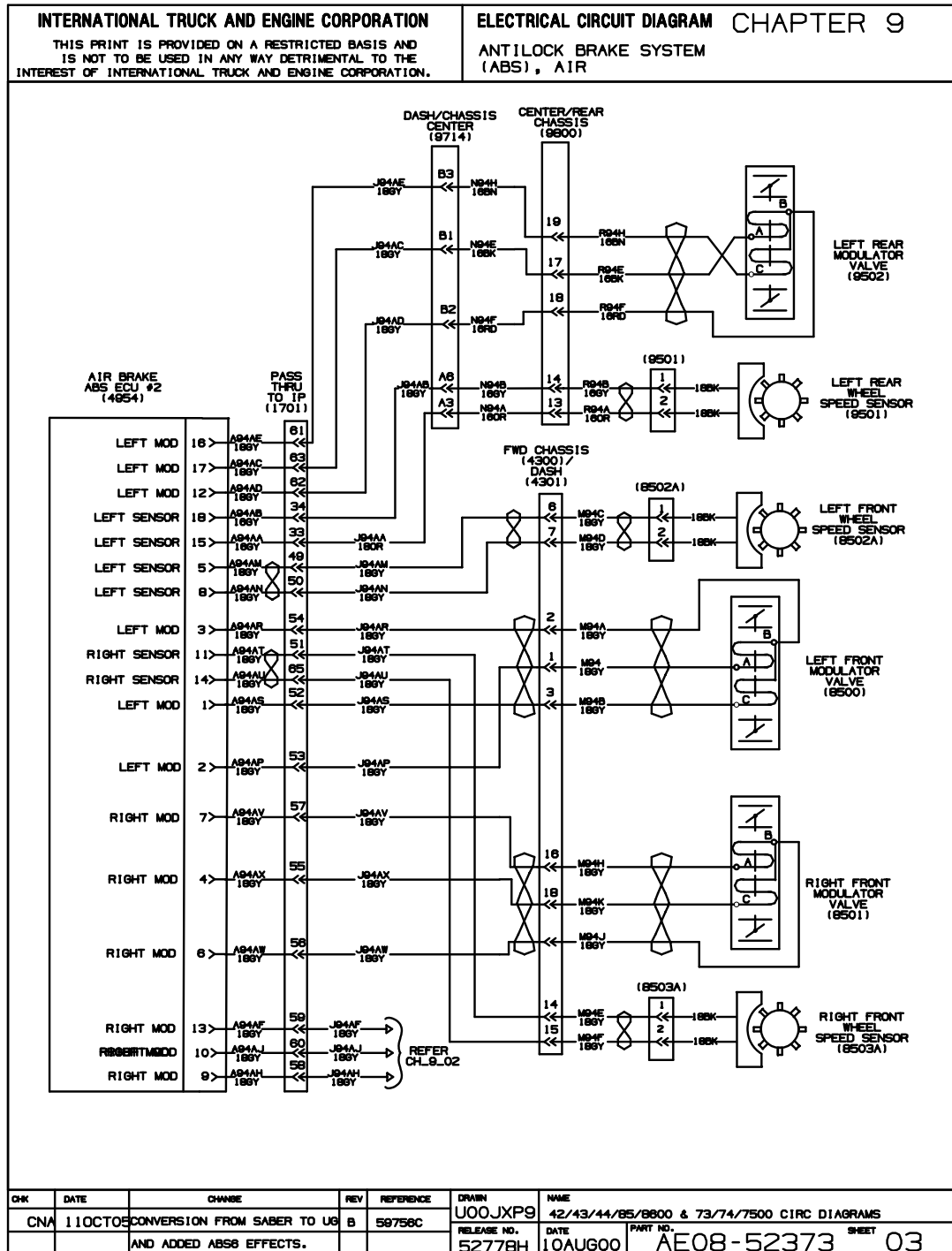


Figure 117 Antilock Brake System (ABS), Air, Traction Control

9.5. ANTILOCK BRAKE SYSTEM (ABS), HYDRAULIC (CONT.), P. 5

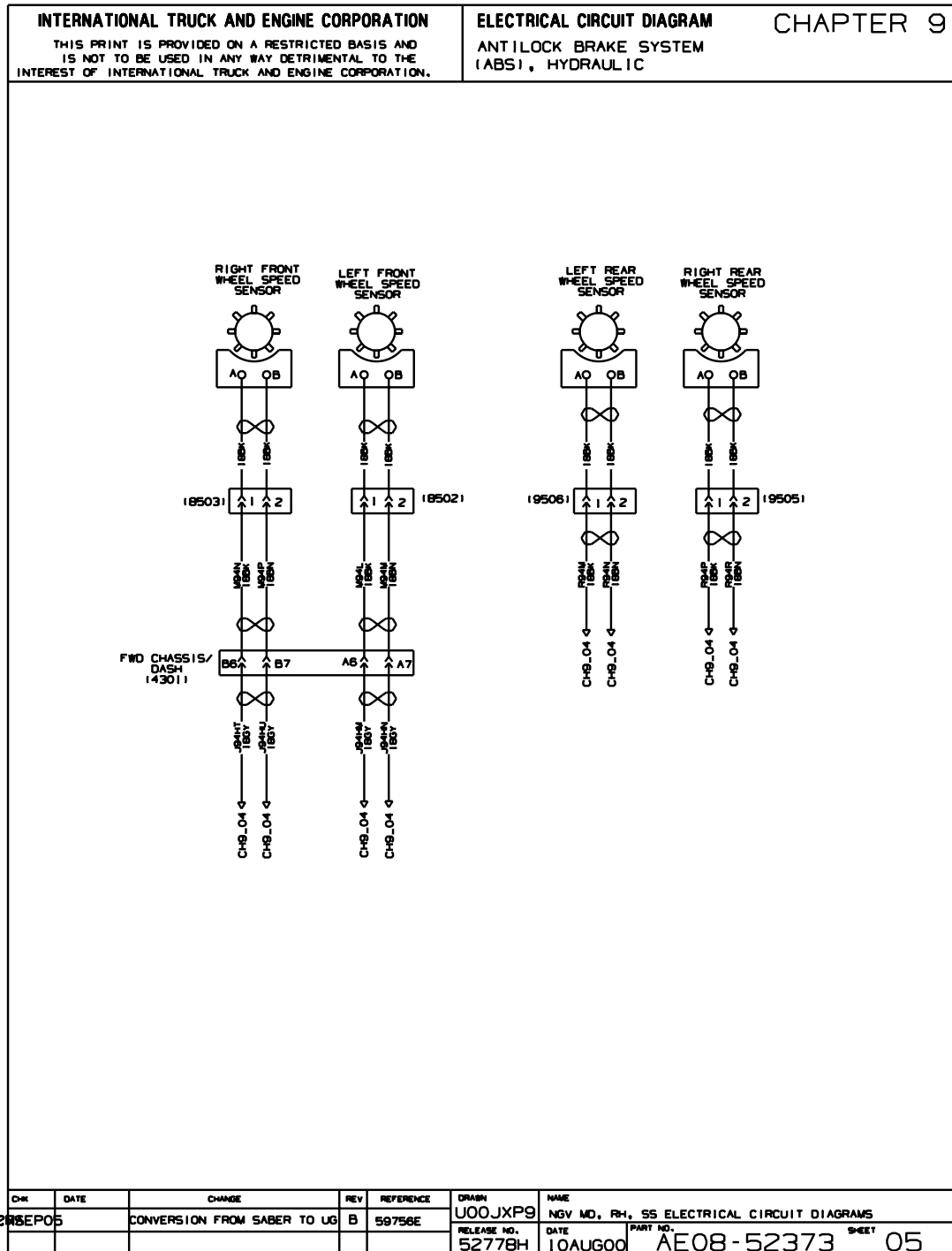
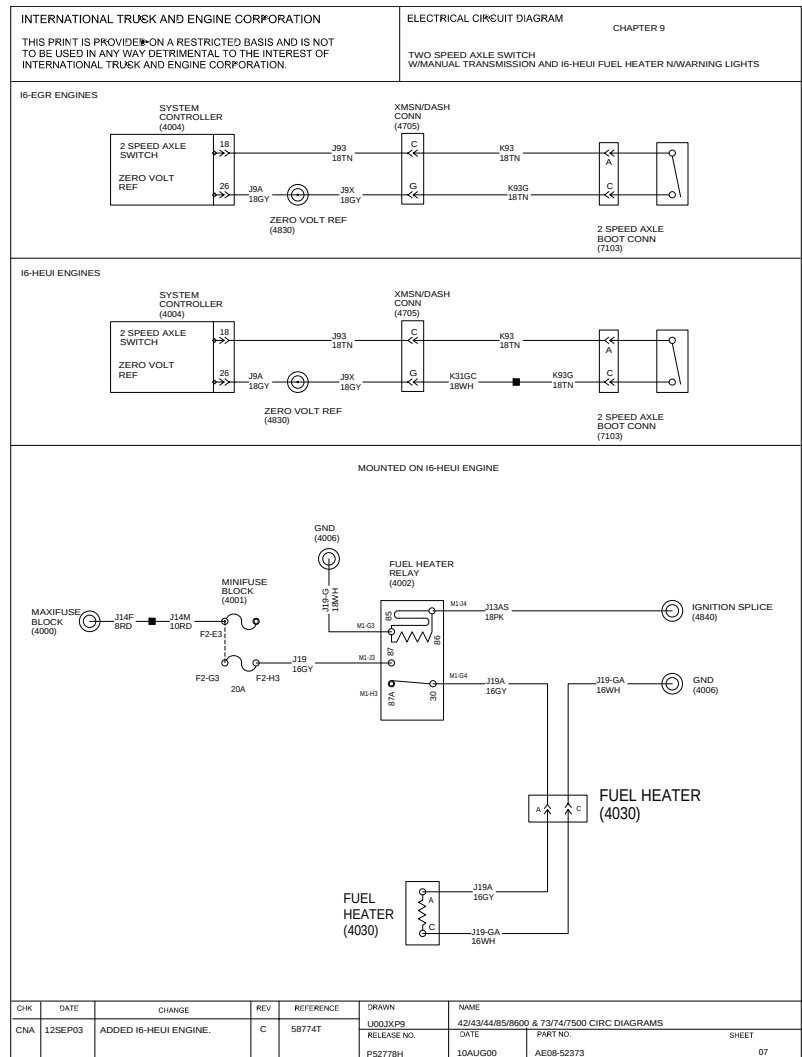


Figure 119 Antilock Brake System (ABS), Hydraulic (Cont.)

9.7. TWO SPEED AXLE SWITCH WITH MANUAL TRANSMISSION AND I6 HEUI FUEL HEATER N/WARN LIGHTS, P. 7**Figure 121 Two Speed Axle Switch With Manual Transmission and I6 HEUI Fuel Heater N/Warn Lights**

9.8. BRAKE SYSTEM, HYDRAULIC, P. 8

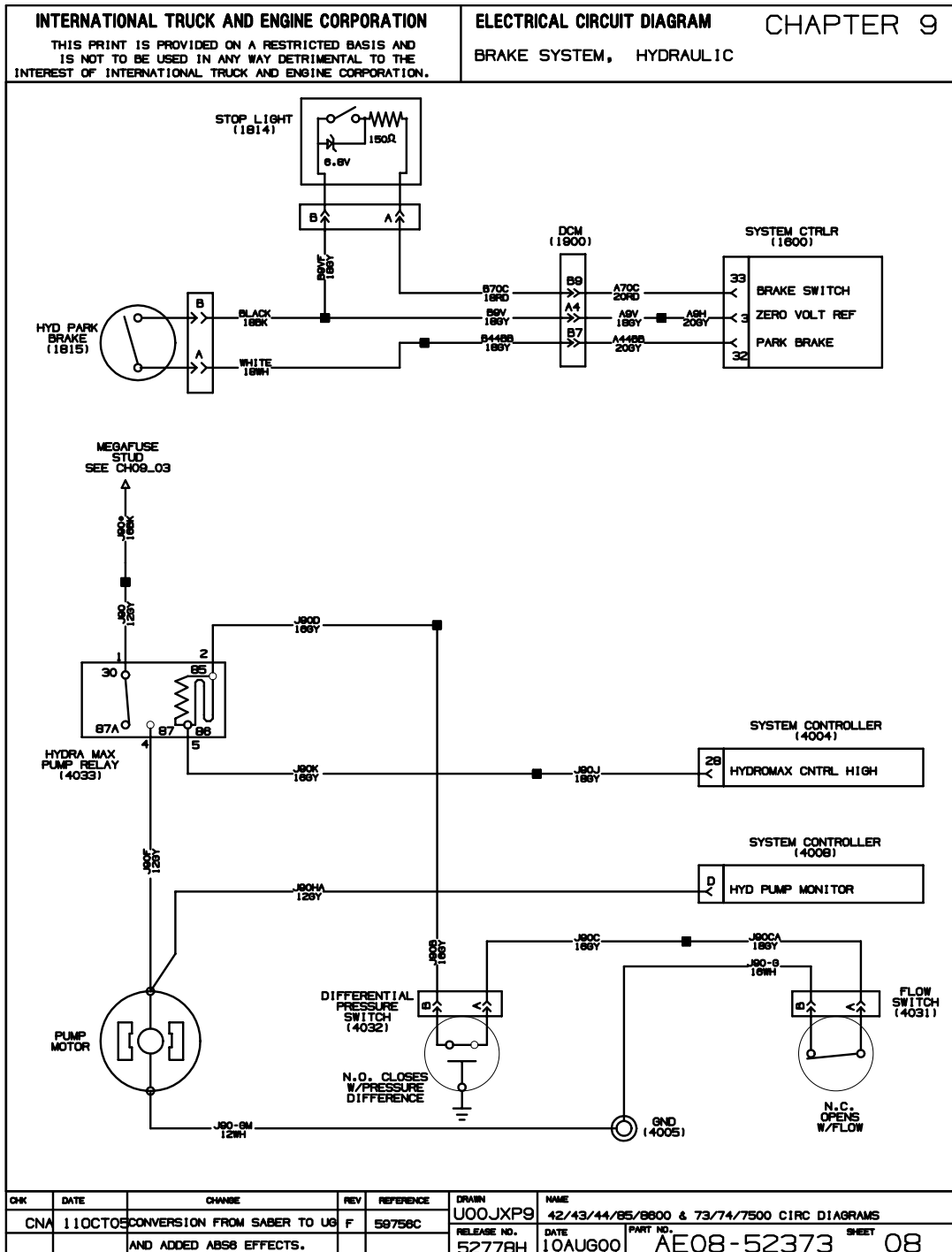


Figure 122 Brake System, Hydraulic

9.9. FUEL TRANSFER PUMP, P. 9

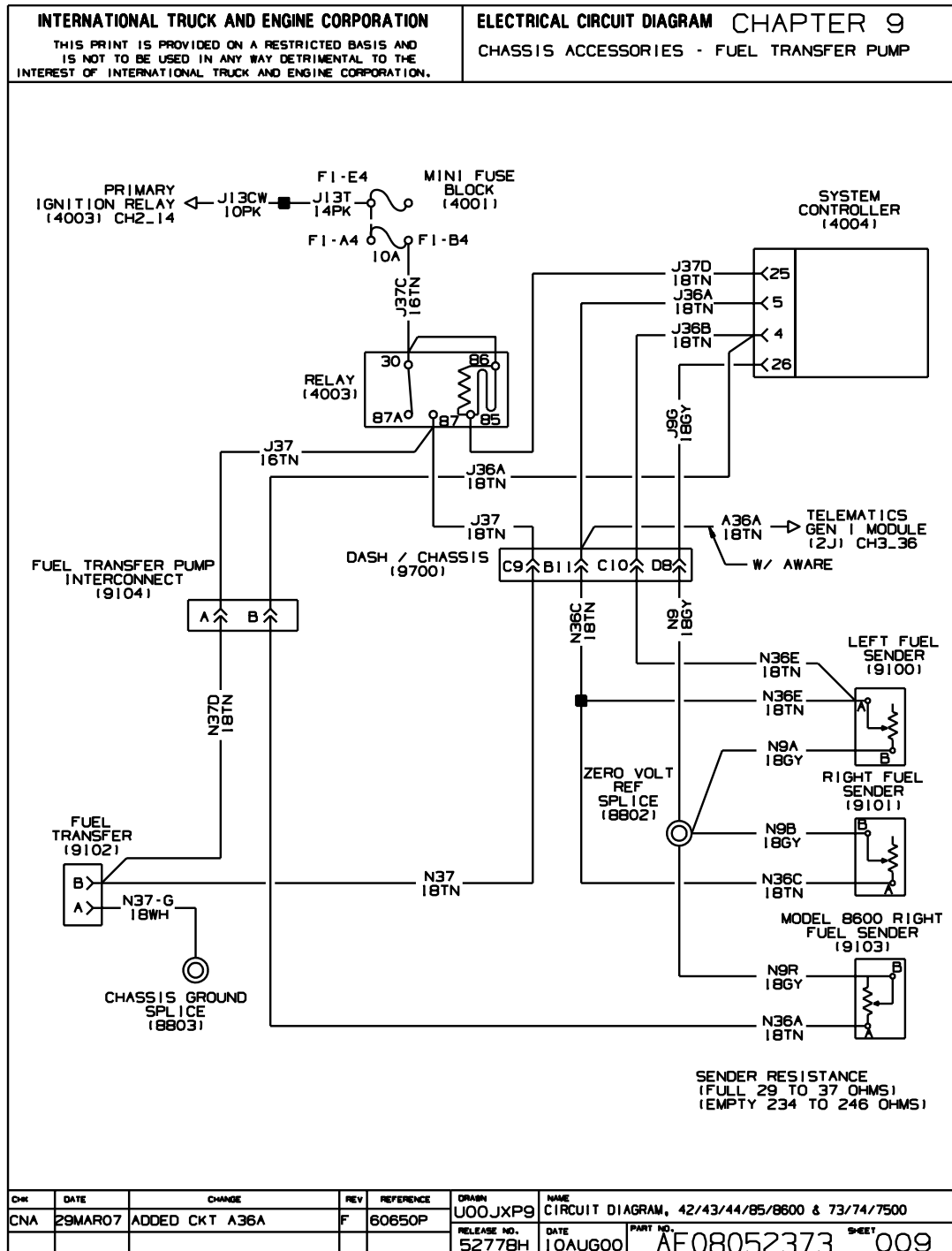
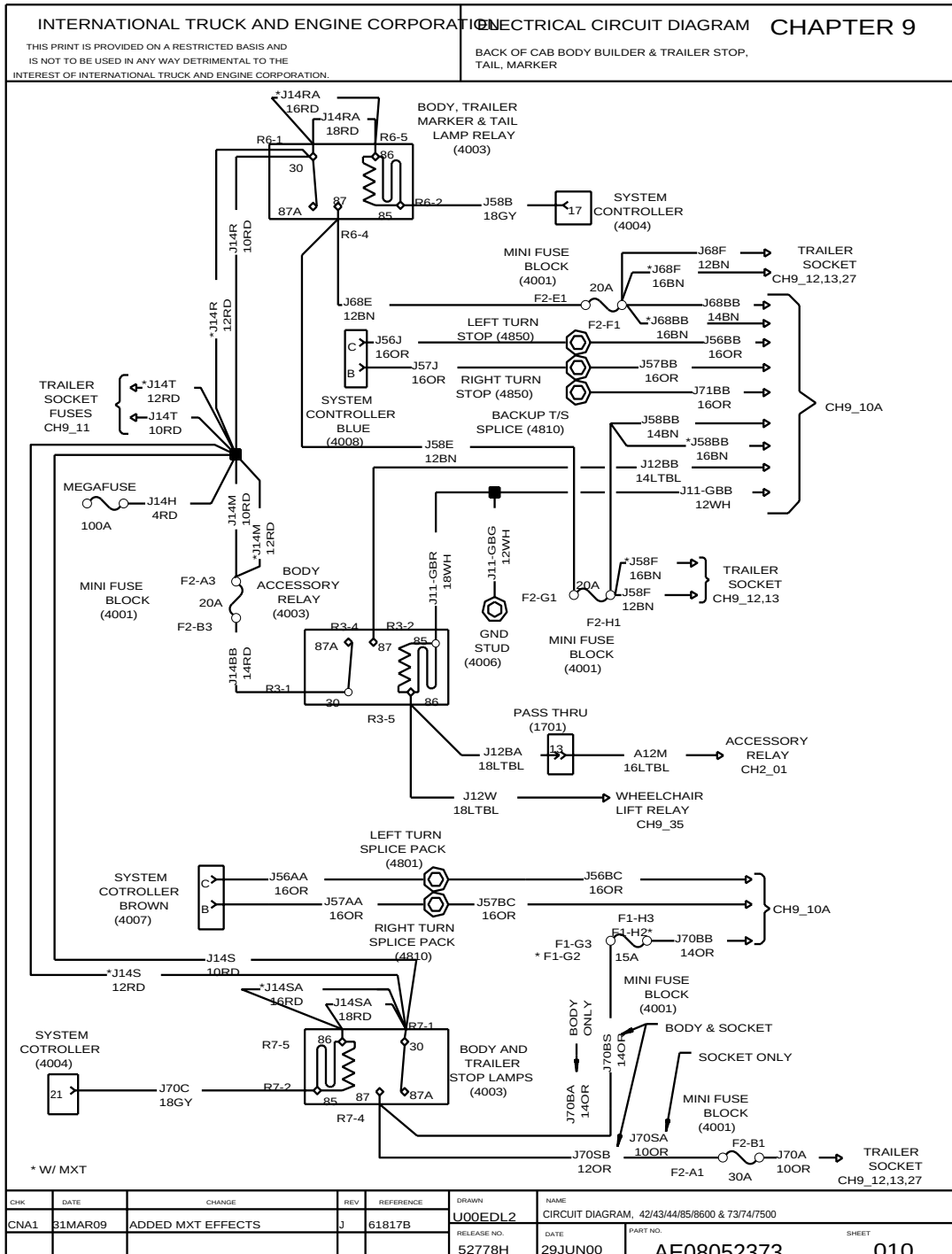
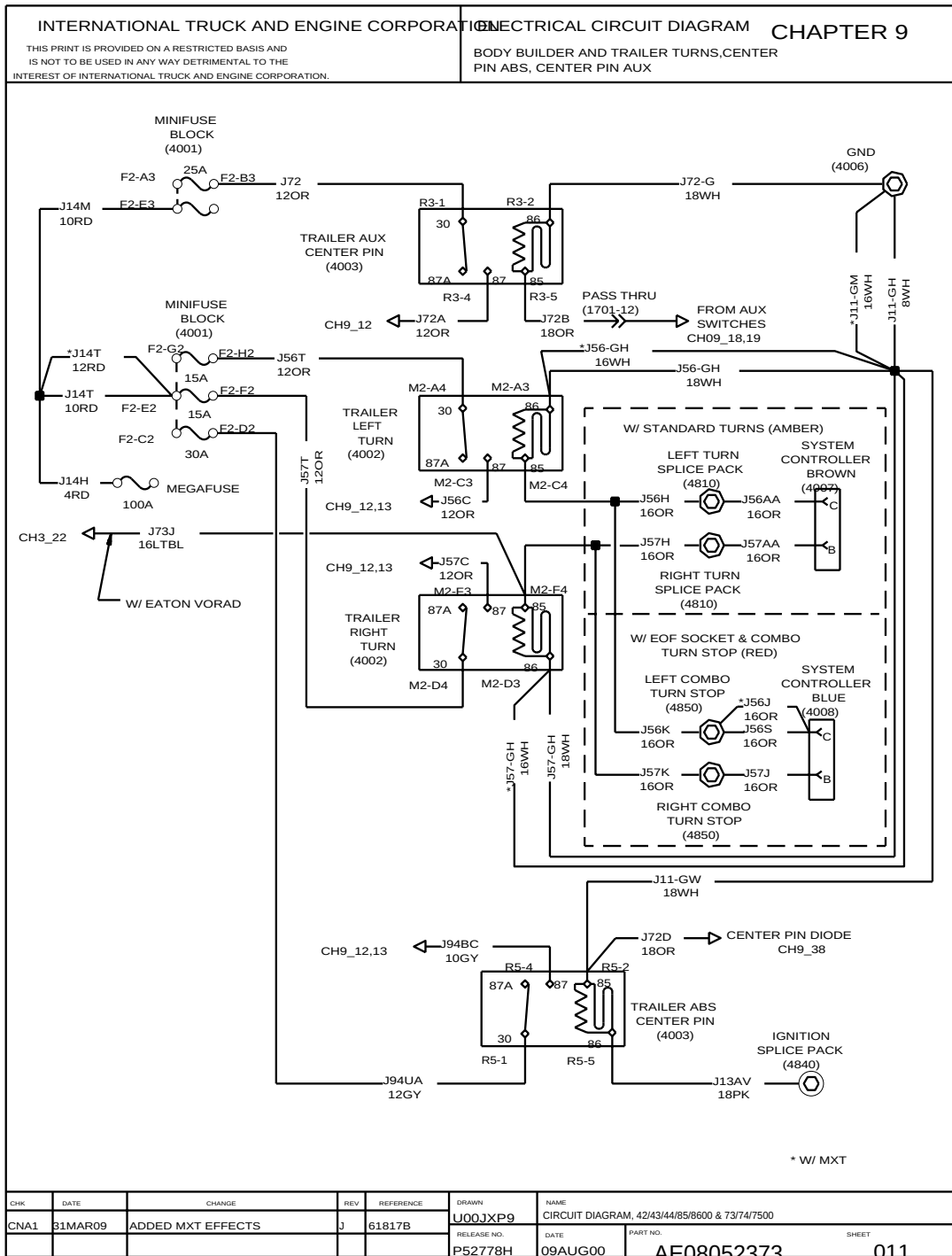


Figure 123 Fuel Transfer Pump

9.10. BACK OF CAB BODY BUILDER AND TRAILER STOP, TAIL, MARKER, P. 10

Figure 124 Back of Cab Body Builder and Trailer Stop, Tail, Marker

9.12. BODY BUILDER AND TRAILER TURNS, CENTER PIN ABS, CENTER PIN AUX, P. 11



9.13. BODY BUILDER AND 7-WAY TRAILER SOCKET BACK OF CAB SOCKET, P. 12

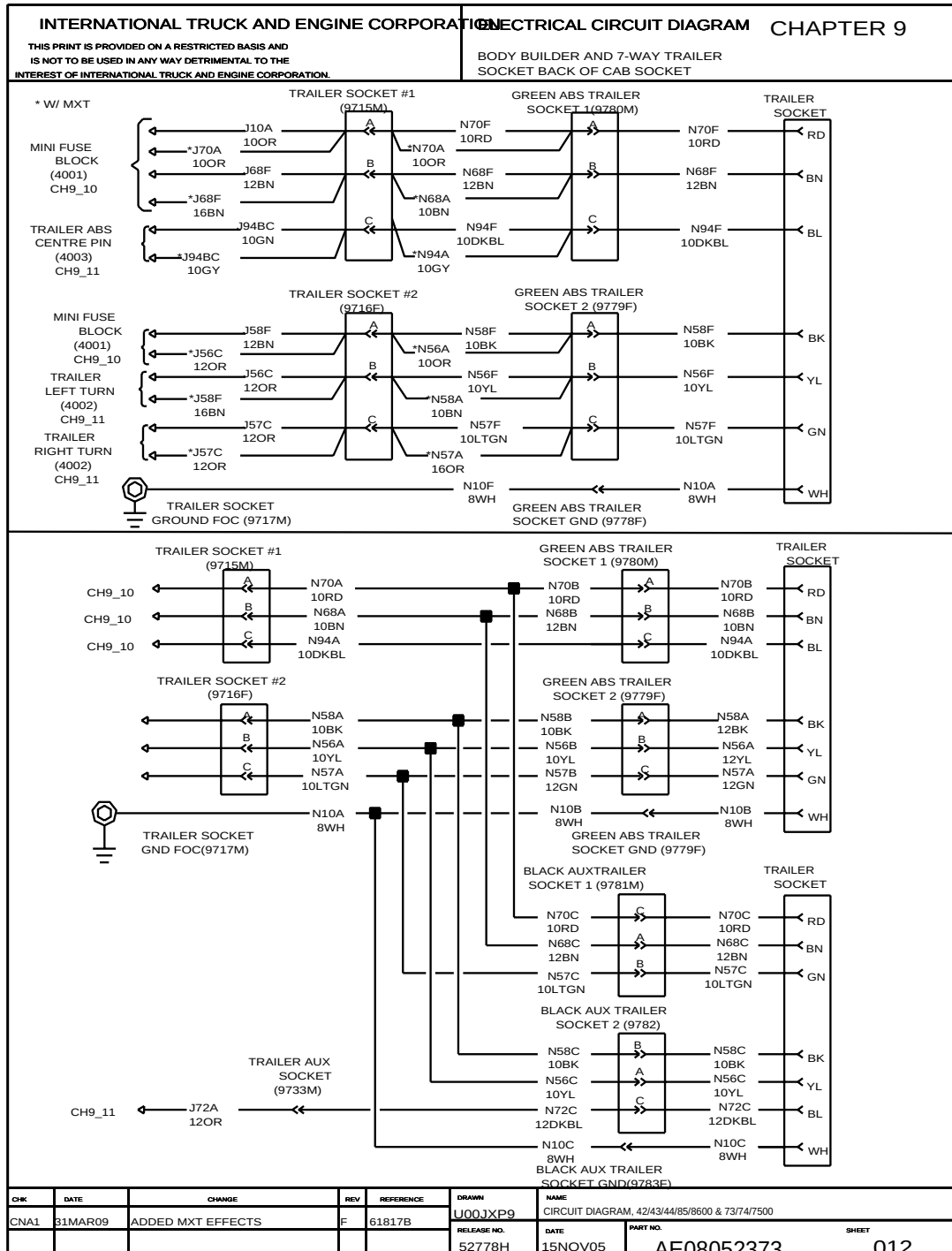


Figure 127 Body Builder and Trailer Socket Back of Cab Sockets

9.14. BODY BUILDER AND TRAILER SOCKET END OF FRAME (EOF) SOCKET AND BODY BUILDER, P. 13

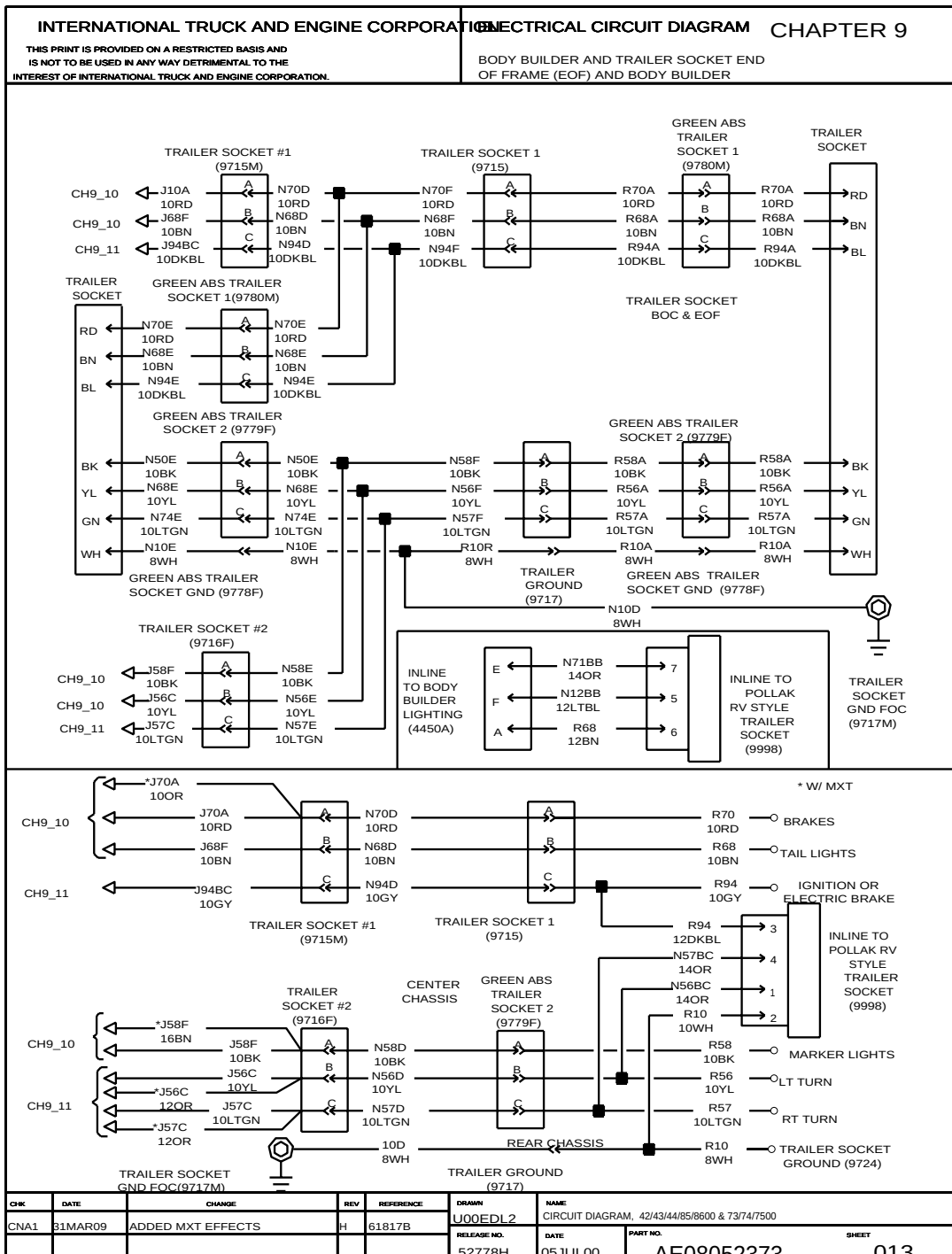


Figure 128 Body Builder and Trailer Socket End of Frame (EOF) Socket and Body Builder

9.15. AIR SOLENOID 4-WAY PACK, P. 14

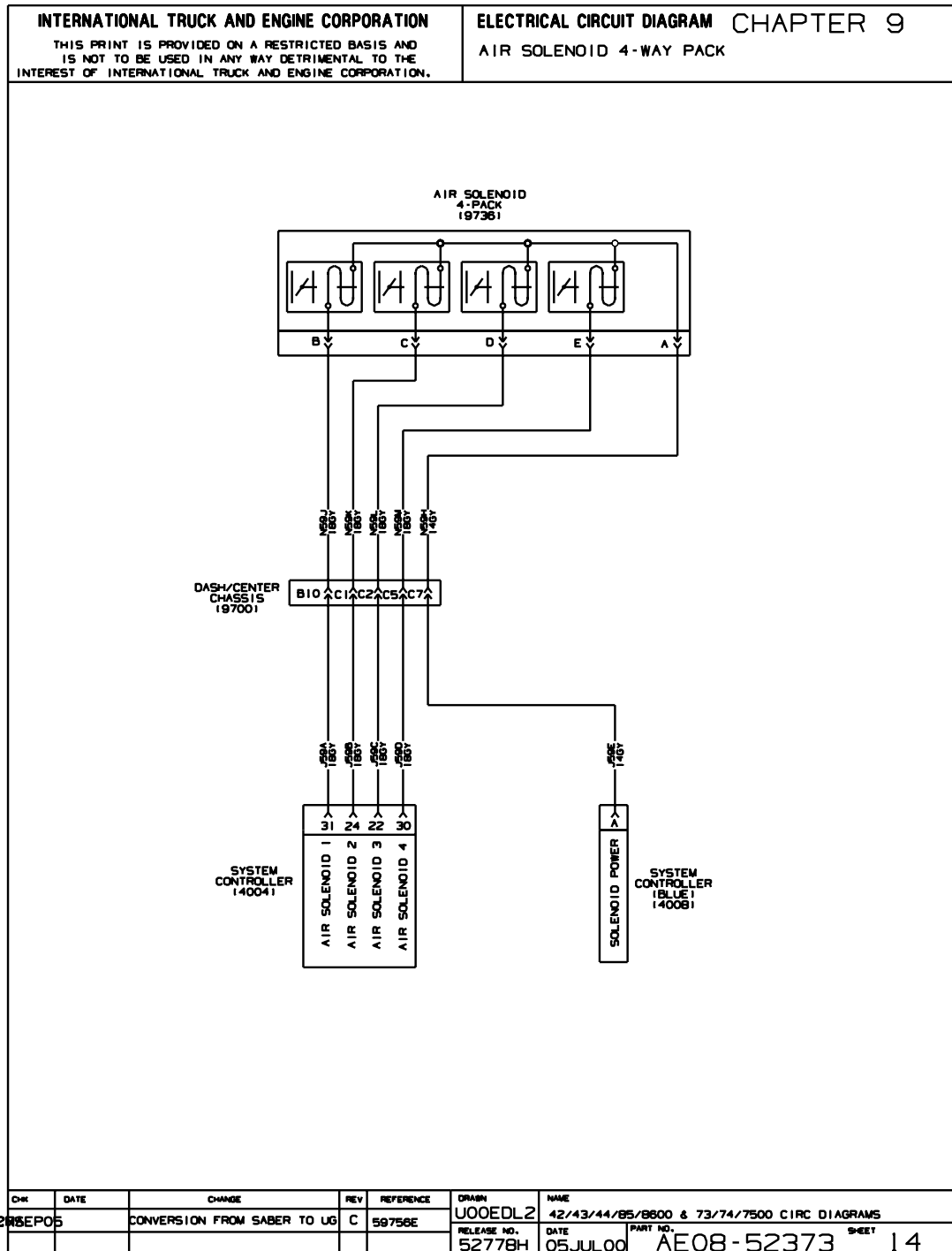


Figure 129 Air Solenoid 4-Way Pack

9.16. REMOTE POWER UNITS, SOLENOID PACKS, REMOTE ENGINE SPEED CONTROLLER, P. 15

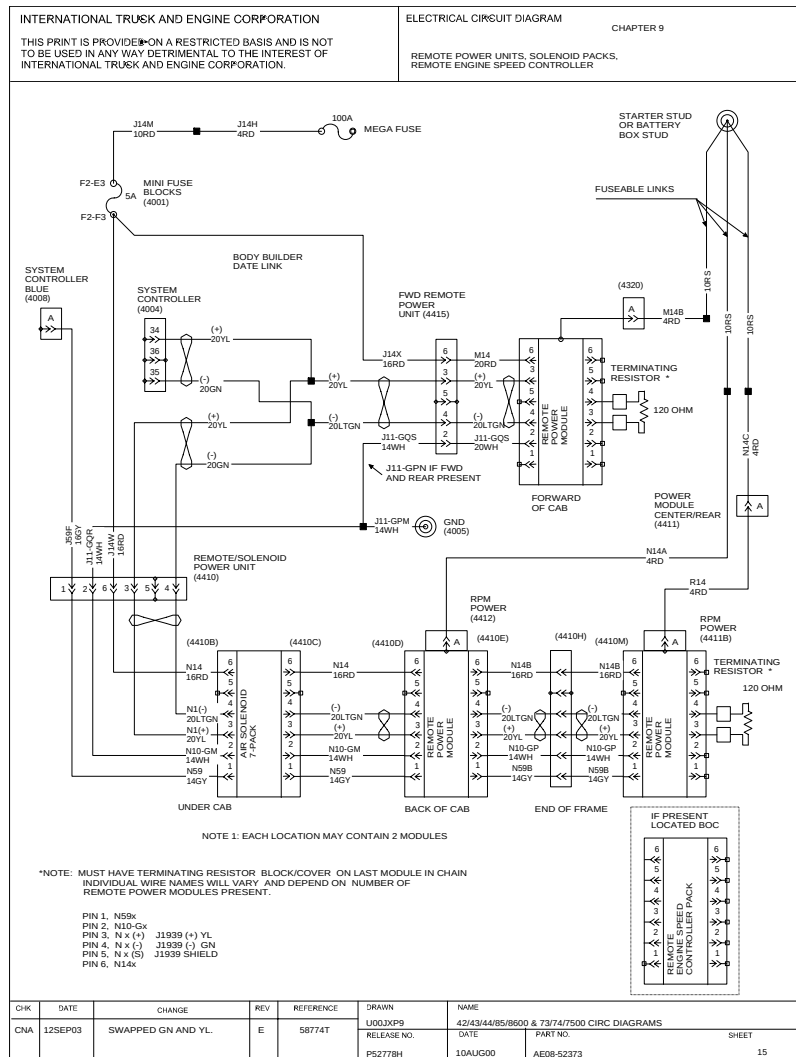


Figure 130 Remote Power Units, Solenoid Packs, Remote Engine Speed Controller

9.17. CHASSIS ACCESSORIES, P. 16

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				CHASSIS ACCESSORIES			
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CHG	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	
21SEP05		CONVERSION FROM SABER TO UG	B	59756E	U00EDL2	NGV MD, RM, SS ELECTRICAL CIRCUIT DIAGRAM	
					RELEASE NO. 52778H	DATE 10JUL00	PART NO. AE08-52373
						SHEET	16

Figure 131 Chassis Accessories

9.18. AIR SUSPENSION, P. 17

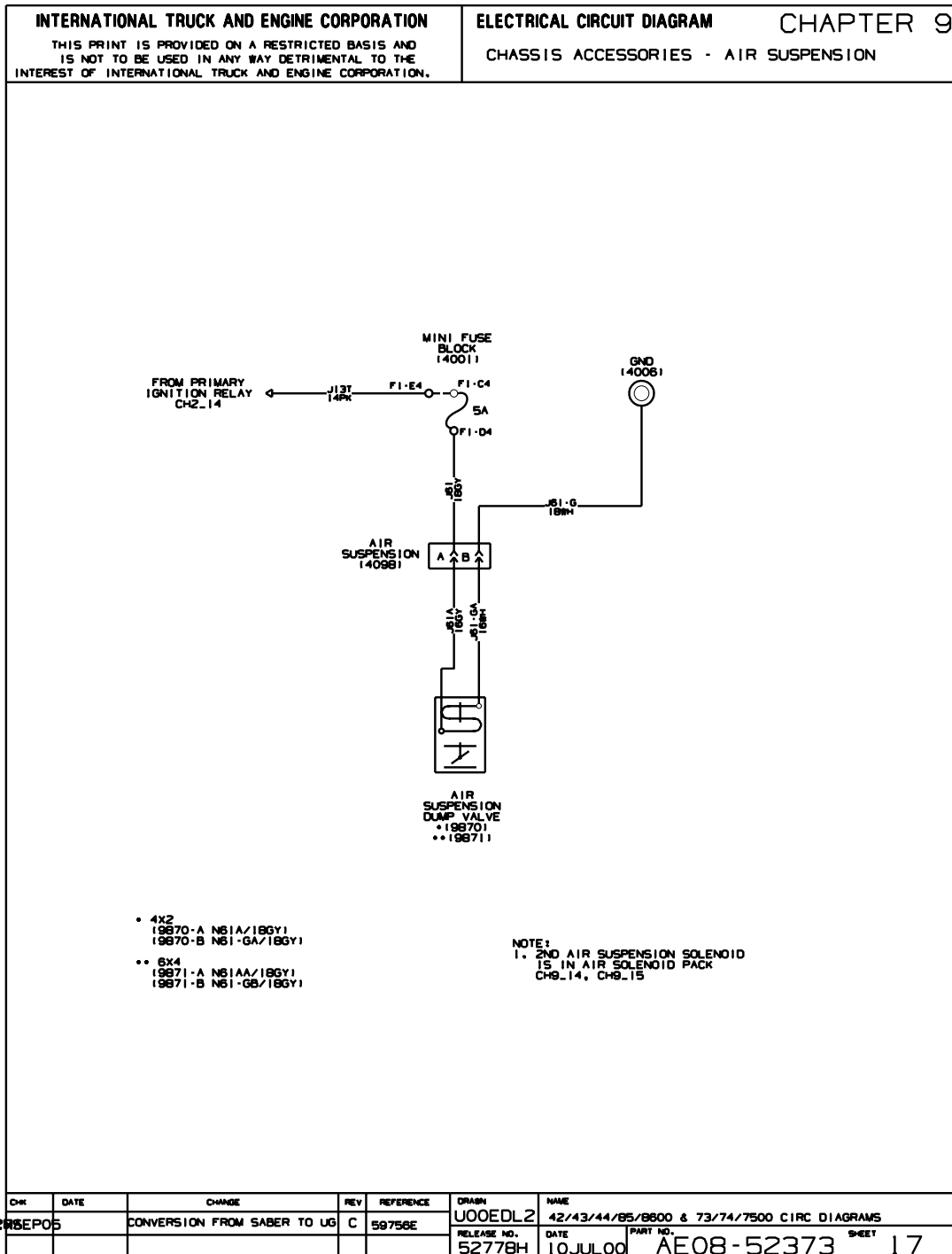


Figure 132 Air Suspension

9.19. AUX. TRAILER, ACC CONTROLLED, P. 18

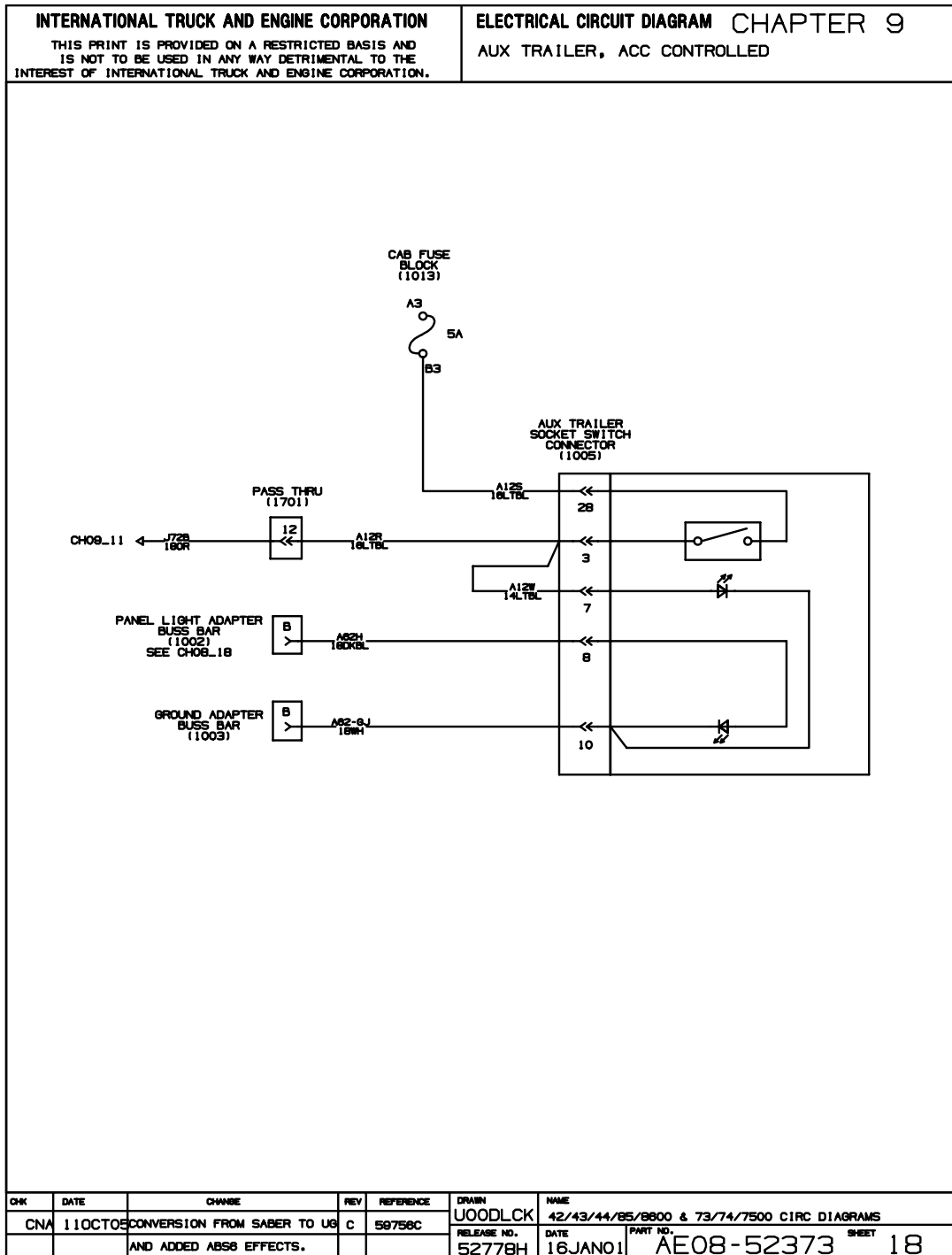


Figure 133 Aux. Trailer, Acc Controlled

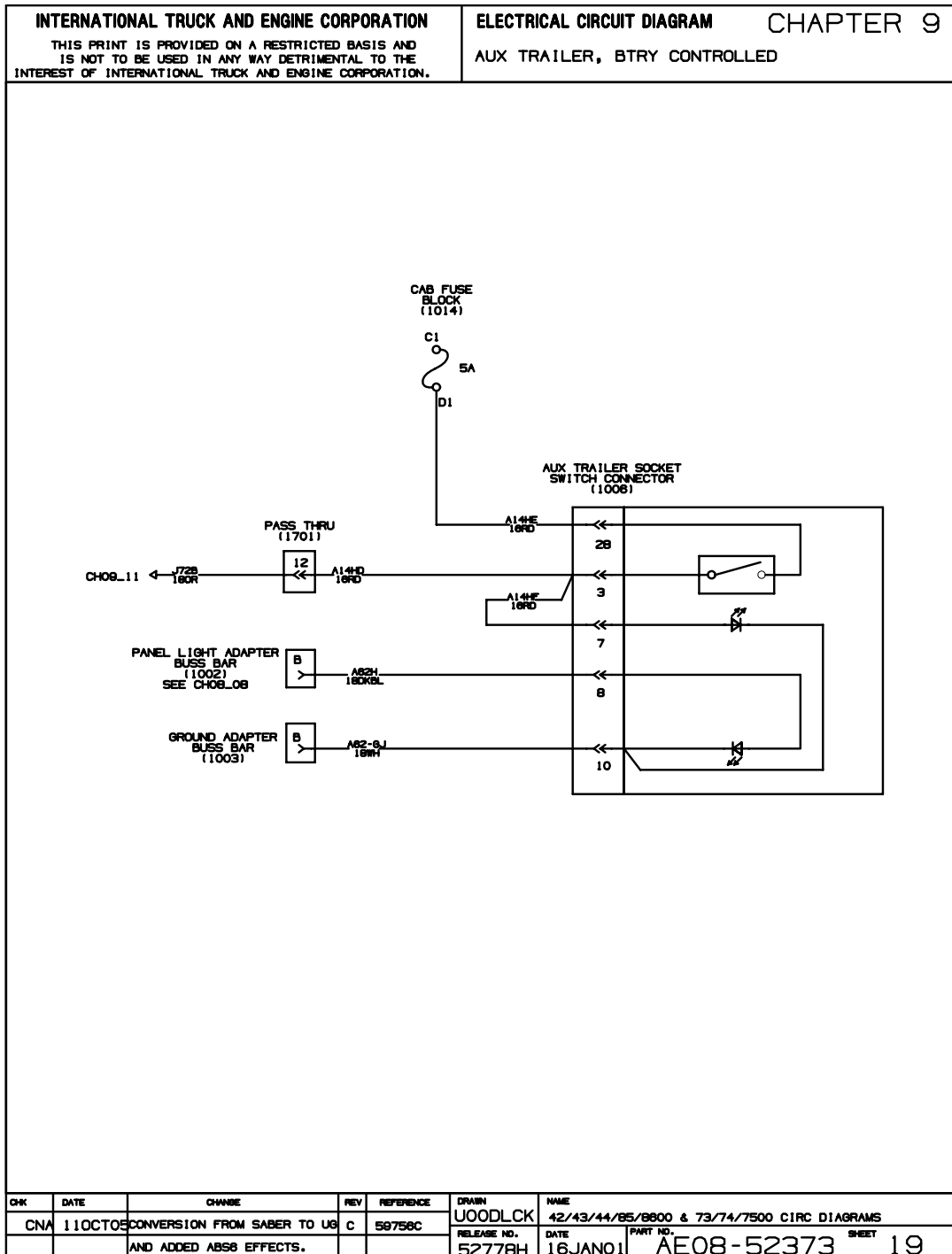
9.20. AUX. TRAILER, BTRY CONTROLLED, P. 19

Figure 134 Aux. Trailer, Btry Controlled

9.21. LIFT AXLES (NON-STEERABLE), P. 20

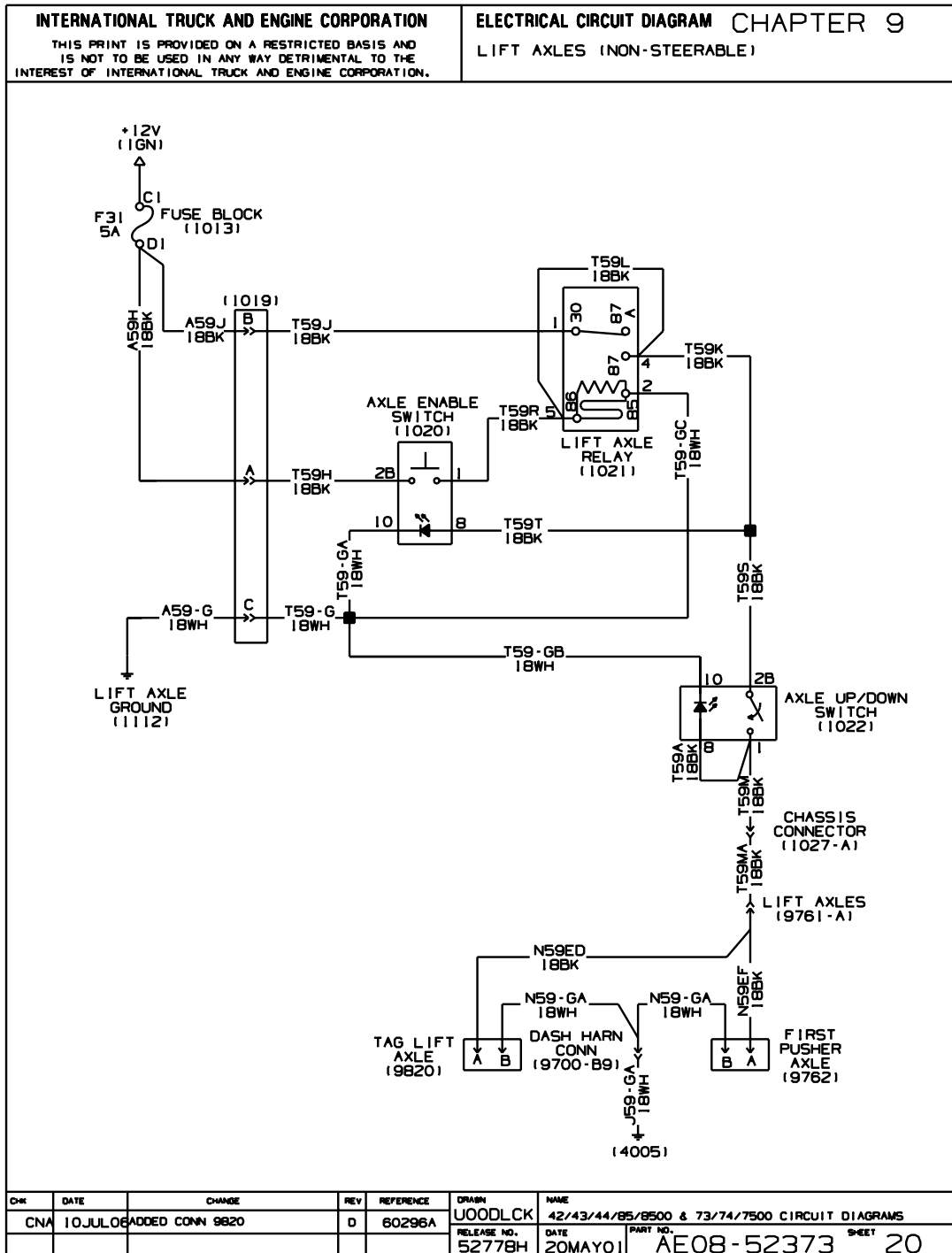


Figure 135 Lift Axles (Non-Steerable)

9.22. LIFT AXLES (STEERABLE), P. 21

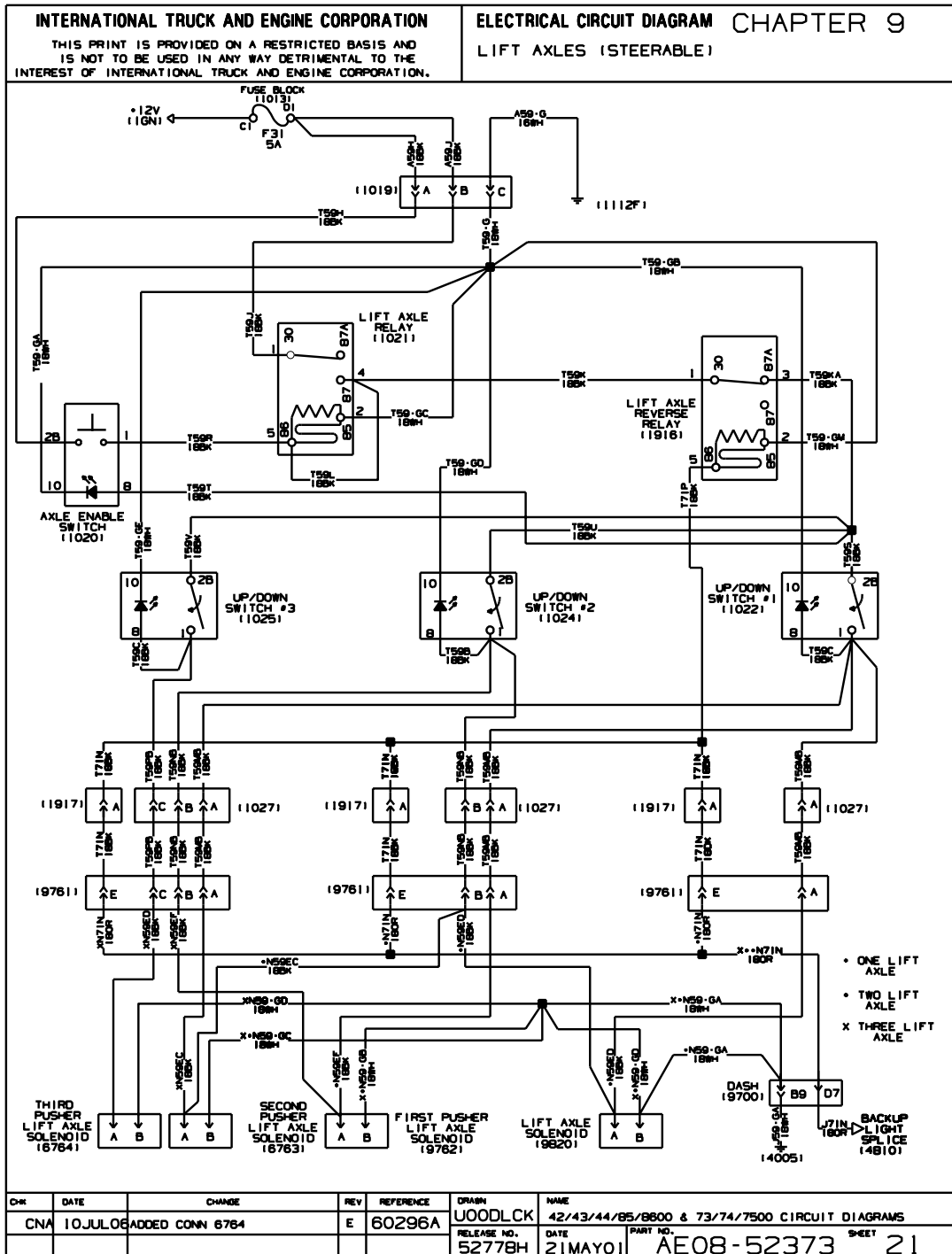


Figure 136 Lift Axles (Non-Steerable)

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ELECTRICAL CIRCUIT DIAGRAM CHAPTER 9

AIR ACTUATED PARK BRAKE

AIR ACTUATED PARK BRAKE W/HYD CHASSIS

AUTO APPLY AIR ACTUATED PARK BRAKE W/HYD CHASSIS

FUSE BLOCK (4001)

FUSE BLOCK (4001)

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	RELEASE NO.	DATE	PART NO.	SHEET
CNA	11OCT05	CONVERSION FROM SABER TO UG	B	59756C	U00ARW2	42/43/44/85/8800 & 73/74/7500 CIRC DIAGRAMS	52778H	19SEP01	AE08-52373	22

S08315

9.24. ANTILOCK BRAKE SYSTEM, WABCO AIR, P. 23

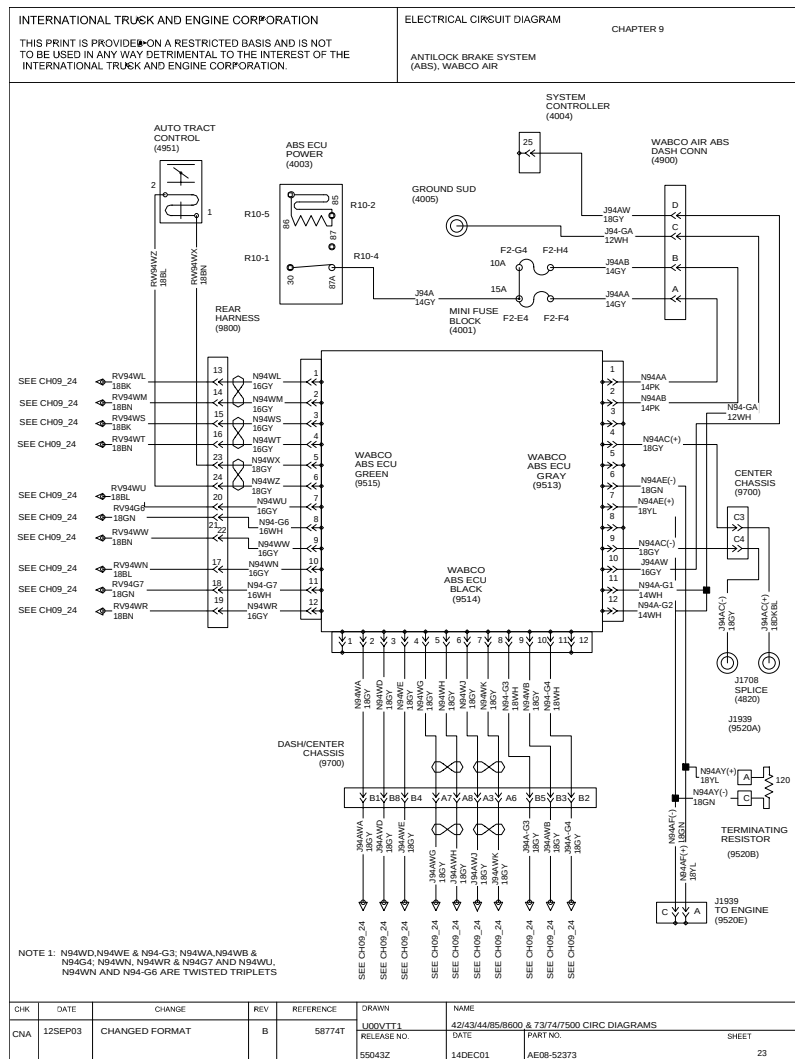


Figure 138 Antilock Brake System, WABCO Air

9.25. ANTILOCK BRAKE SYSTEM, WABCO AIR, P. 24

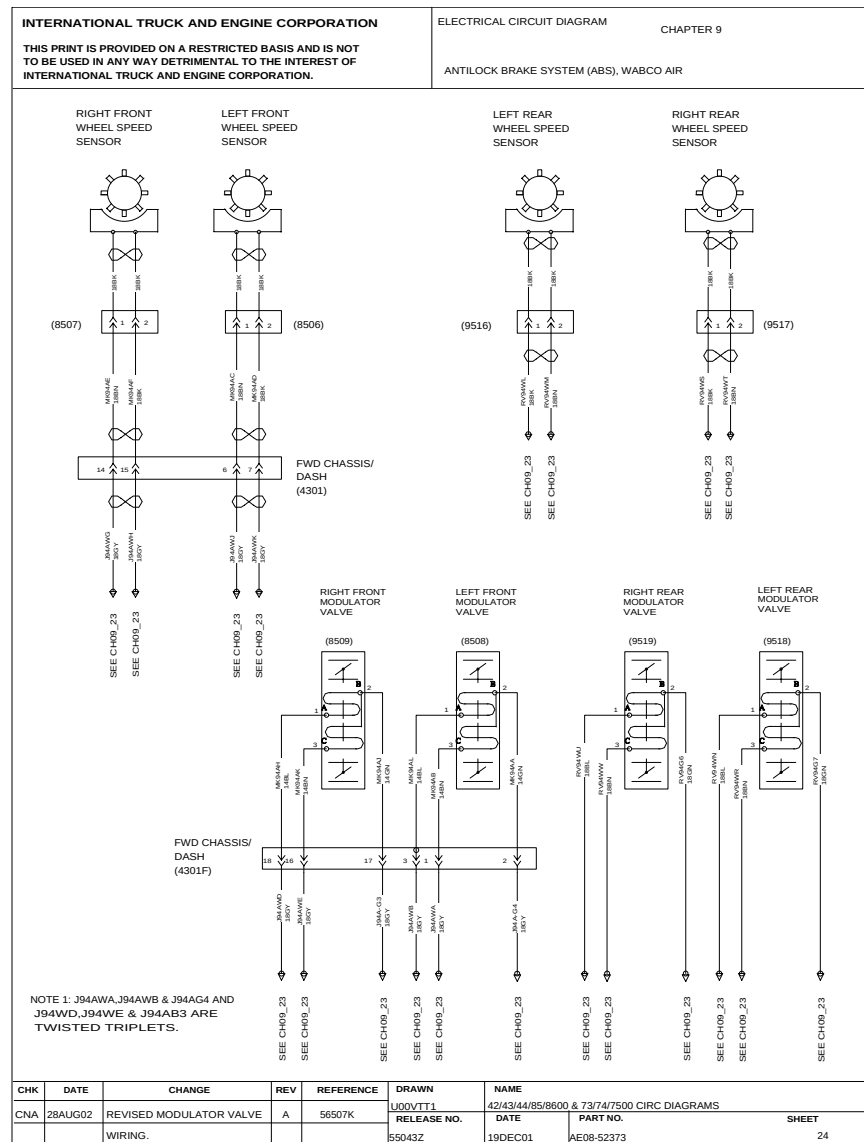


Figure 139 Antilock Brake System, WABCO Air

9.26. LIFT AXLES, WITH NON—STEERABLE FOR SS MODELS, P. 25

INTERNATIONAL TRUCK AND ENGINE CORPORATION THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF INTERNATIONAL TRUCK AND ENGINE CORPORATION.				ELECTRICAL CIRCUIT DIAGRAM CHAPTER 9 LIFT AXLES, W/NON-STEERABLE FOR SS MODELS			
INTENTIONALLY LEFT BLANK							
CHG	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	
CNA	10JUL08	GEOMETRY REMOVED	D	80296A	WOODLCK	42/43/44/65/8600 & 73/74/7500 CIRCUIT DIAGRAMS	
					RELEASE NO.	DATE	PART NO. SHEET
					52778H	15DEC01	AE08-52373 25

Figure 140 Lift Axles, With Non—Steerable for SS Models

9.27. FUEL / WATER SEPARATOR WITH 12VDC FUEL PREHEATER, P. 26

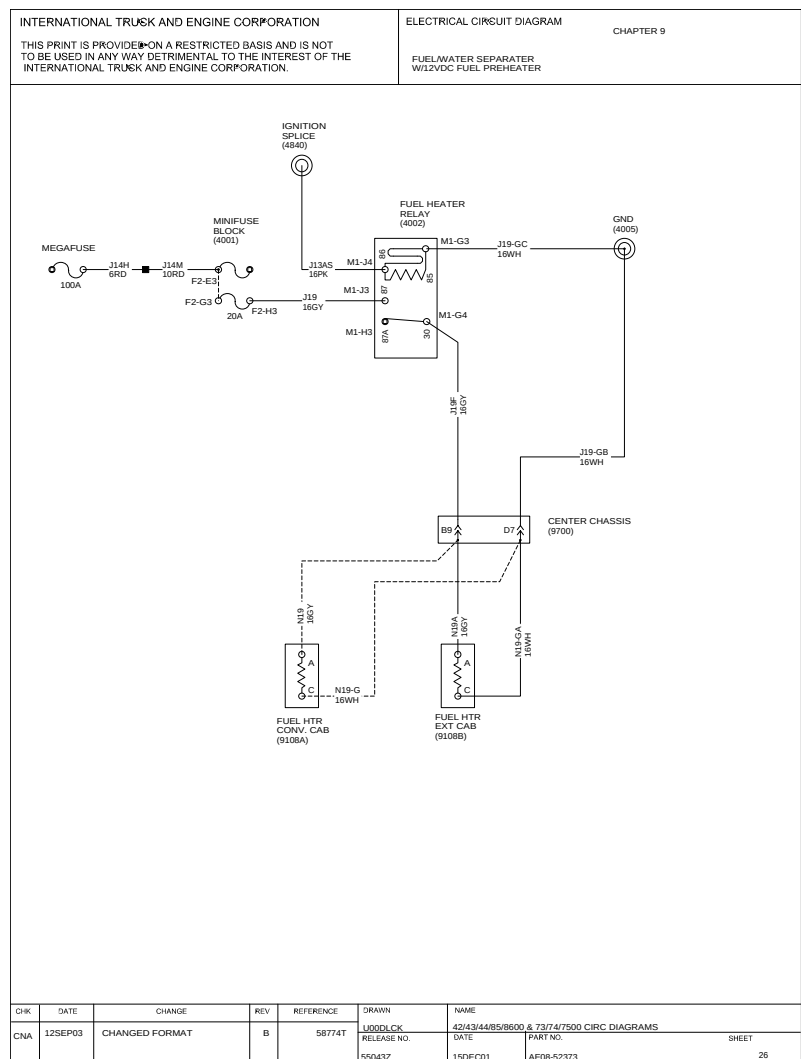


Figure 141 Fuel / Water Separator With 12VDC Fuel Preheater

9.28. ELECTRONIC TRAILER BRAKE ACCOMMODATION, P. 27

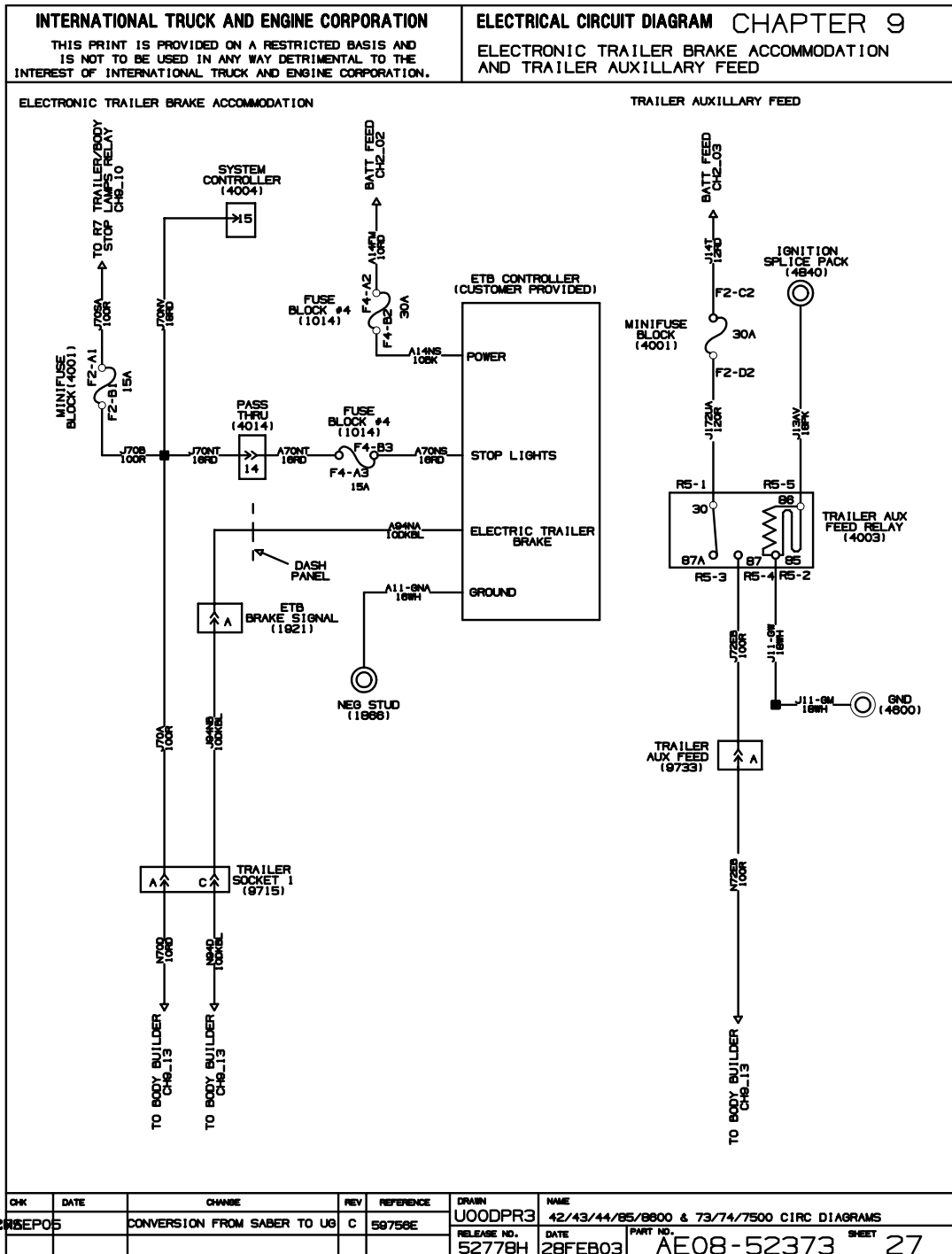


Figure 142 Electronic Trailer Brake Accommodation

9.30. AUXILIARY 40 AMP CIRCUIT, P. 29

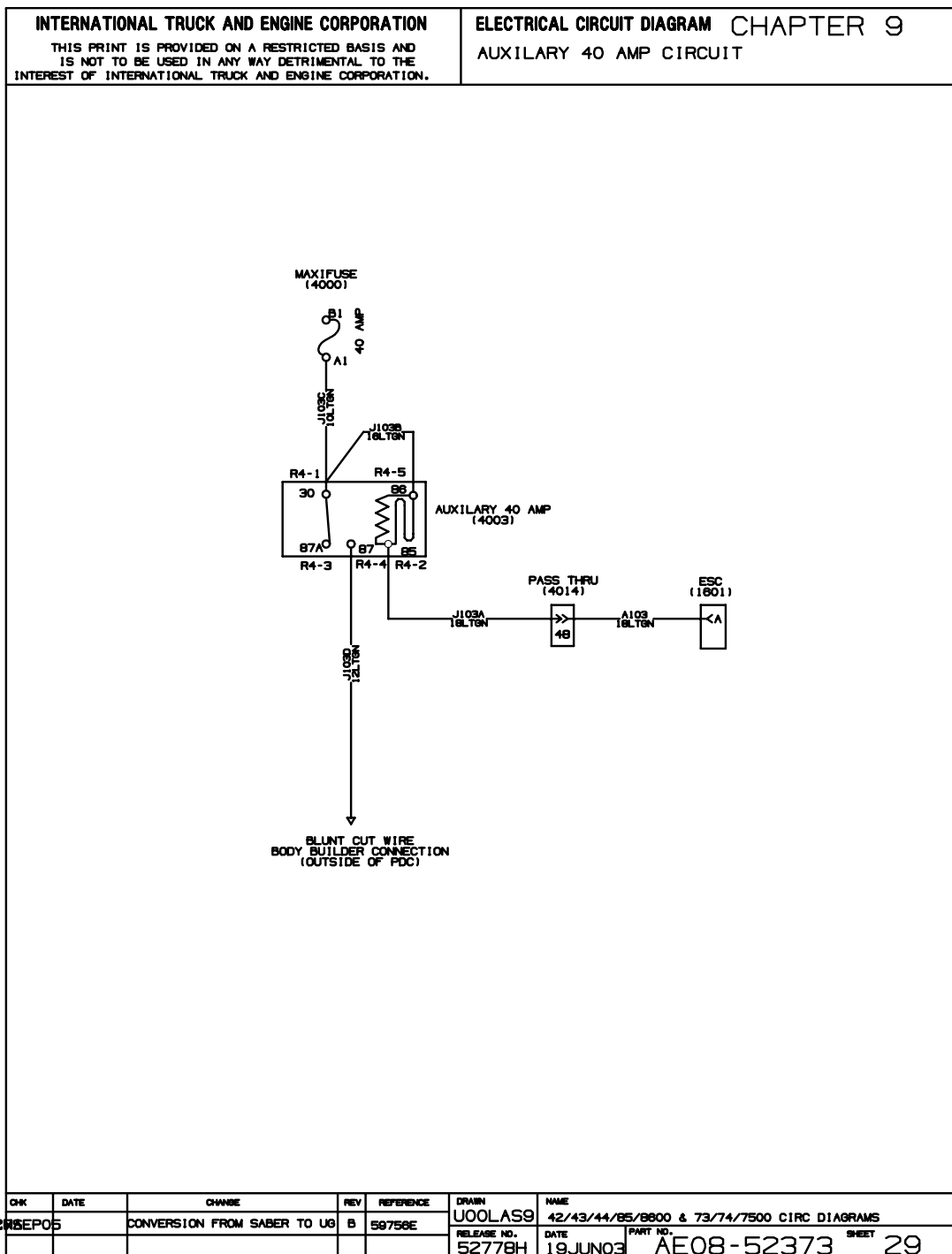


Figure 144 Auxiliary 40 Amp Circuit

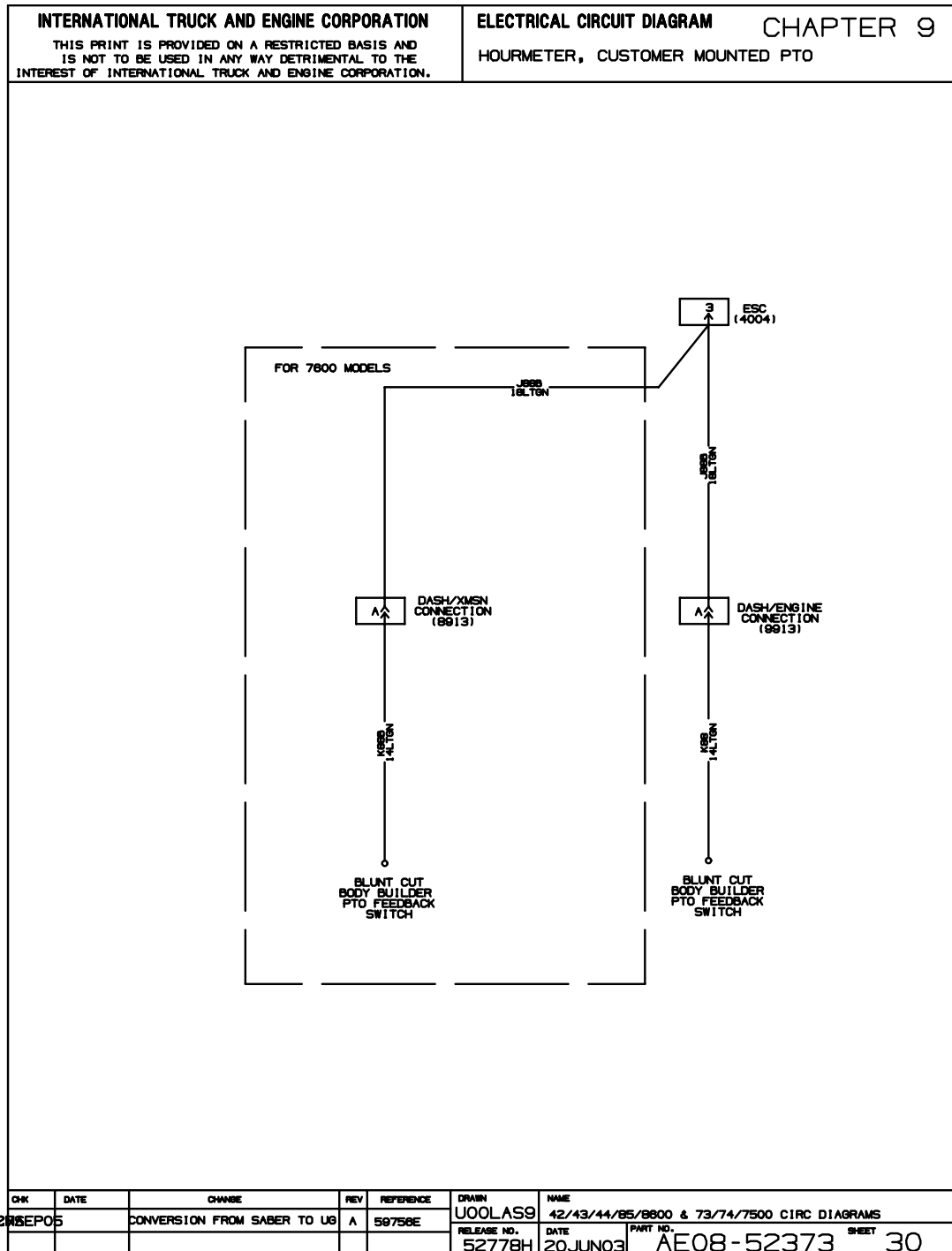
9.31. HOURMETER, CUSTOMER MOUNTED PTO, P. 30

Figure 145 Hourmeter, Customer Mounted PTO

9.33. LIFT AXLE WITH 14RAR, P. 32

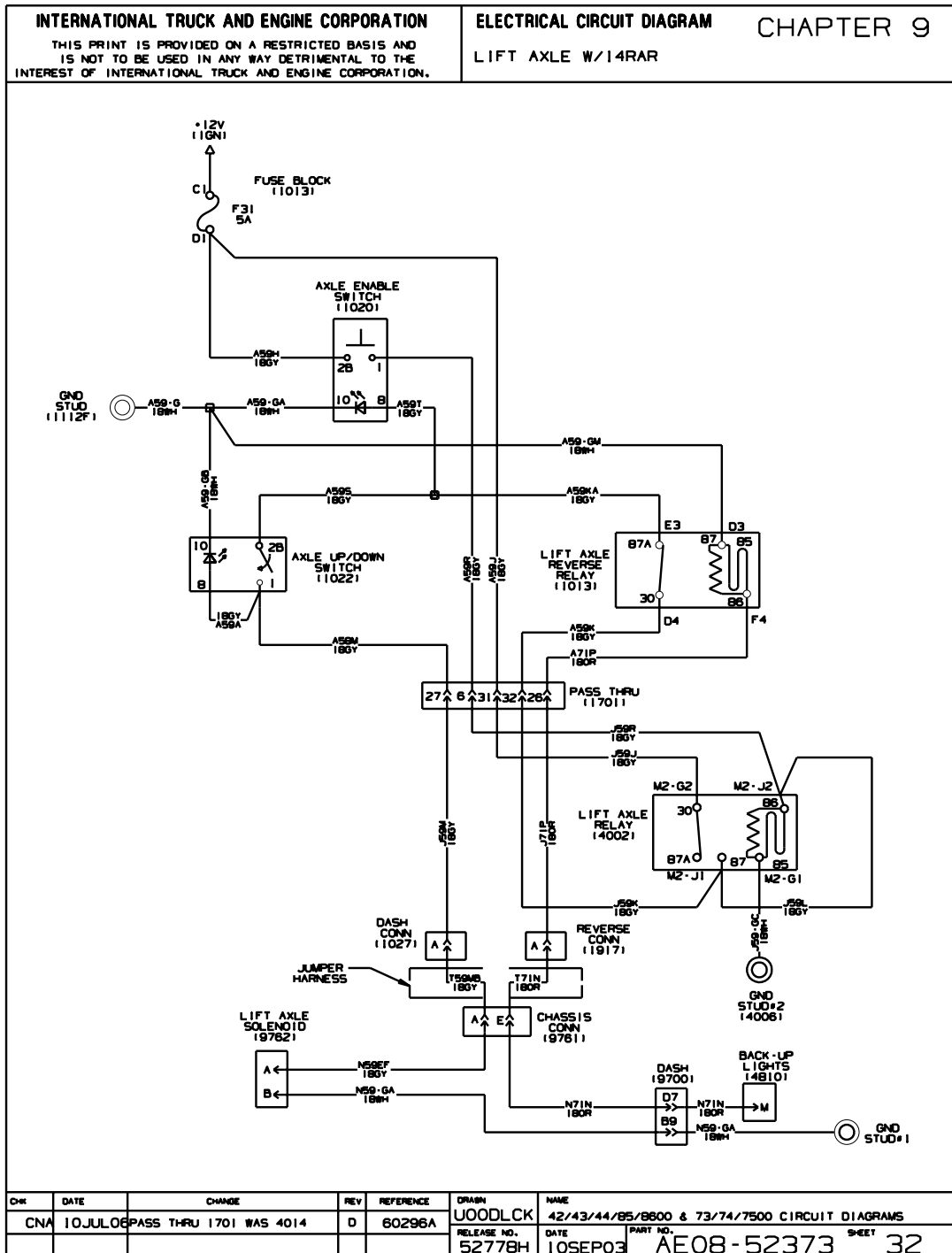


Figure 147 Lift Axle with 14RAR

9.35. LIFT AXLE MULTIPLEX, P. 34

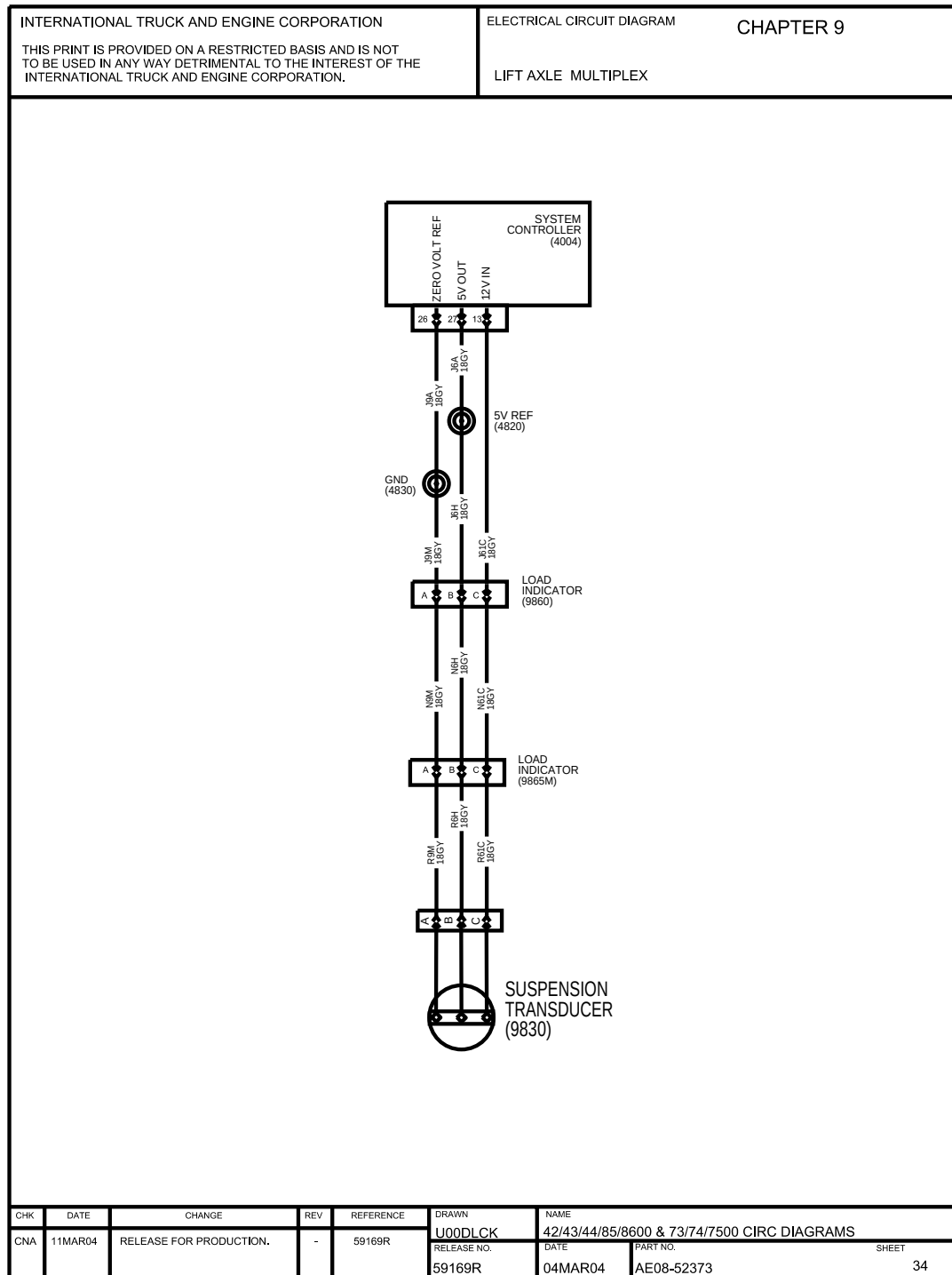


Figure 149 Lift Axle Multiplex

9.36. BODY BUILDER WHEELCHAIR LIFT INTERLOCK ELECTRICAL CONNECTION, P. 35

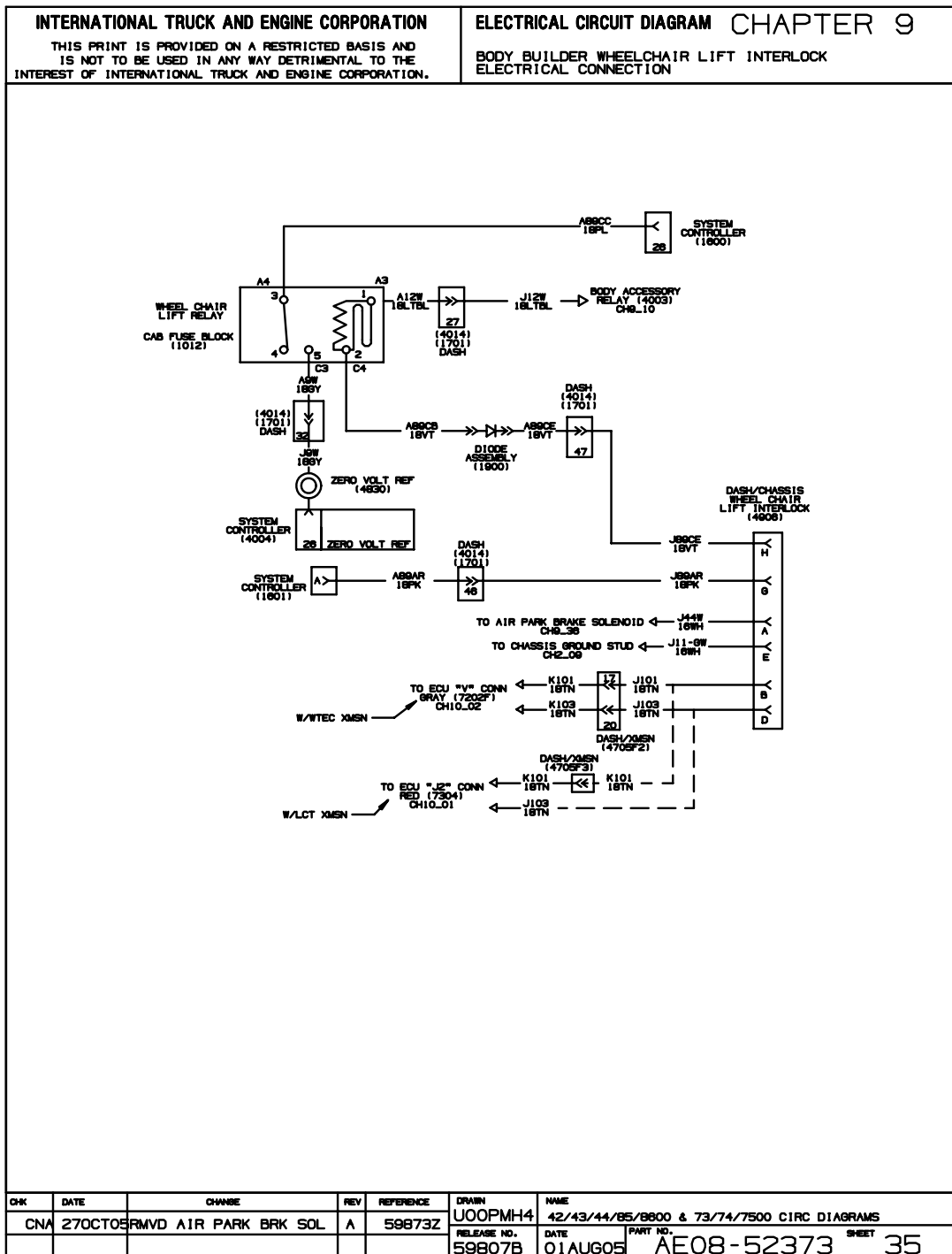


Figure 150 Body Builder Wheelchair Lift Interlock Electrical Connection

9.37. AIR PARK BRAKE INTERLOCK, P. 36

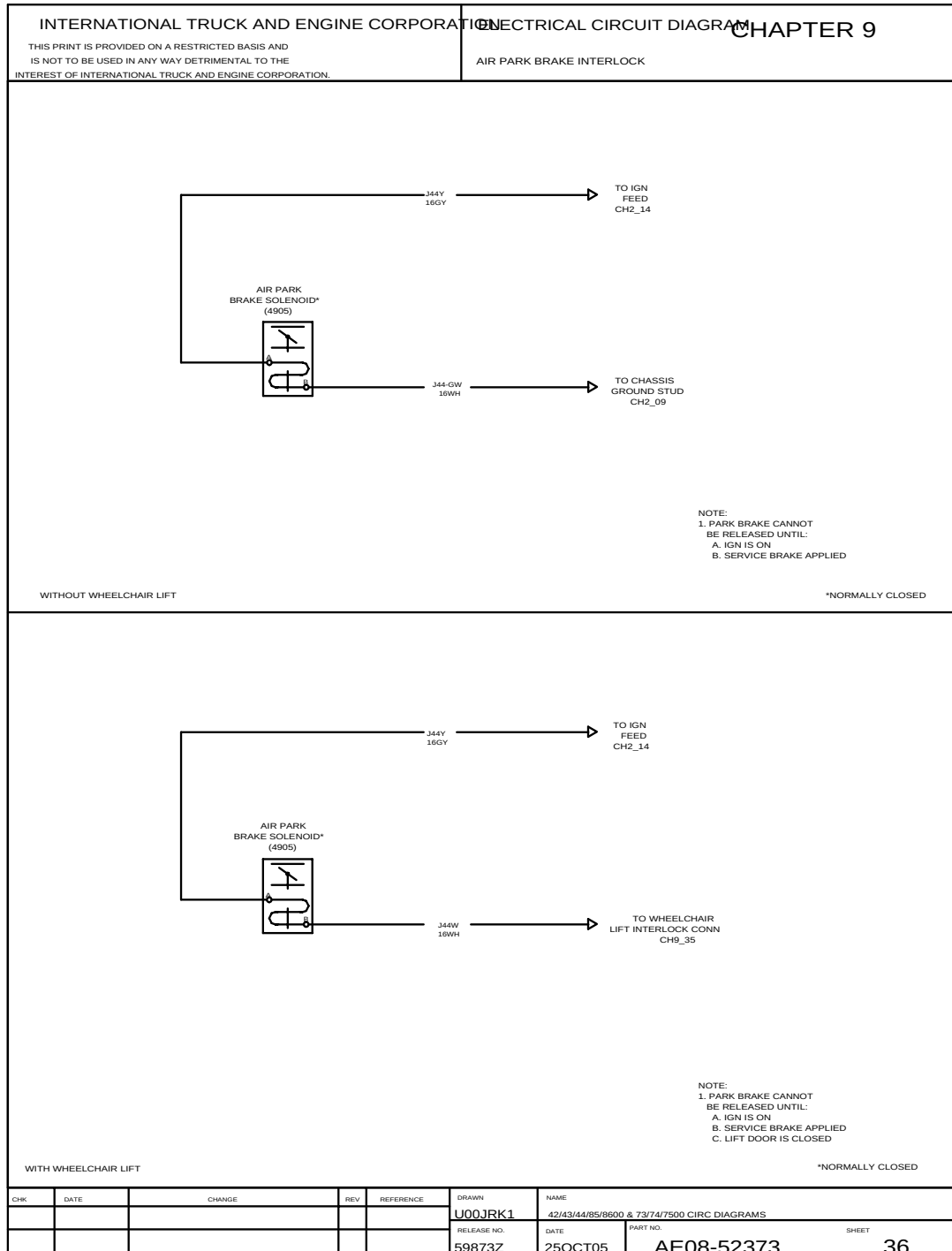
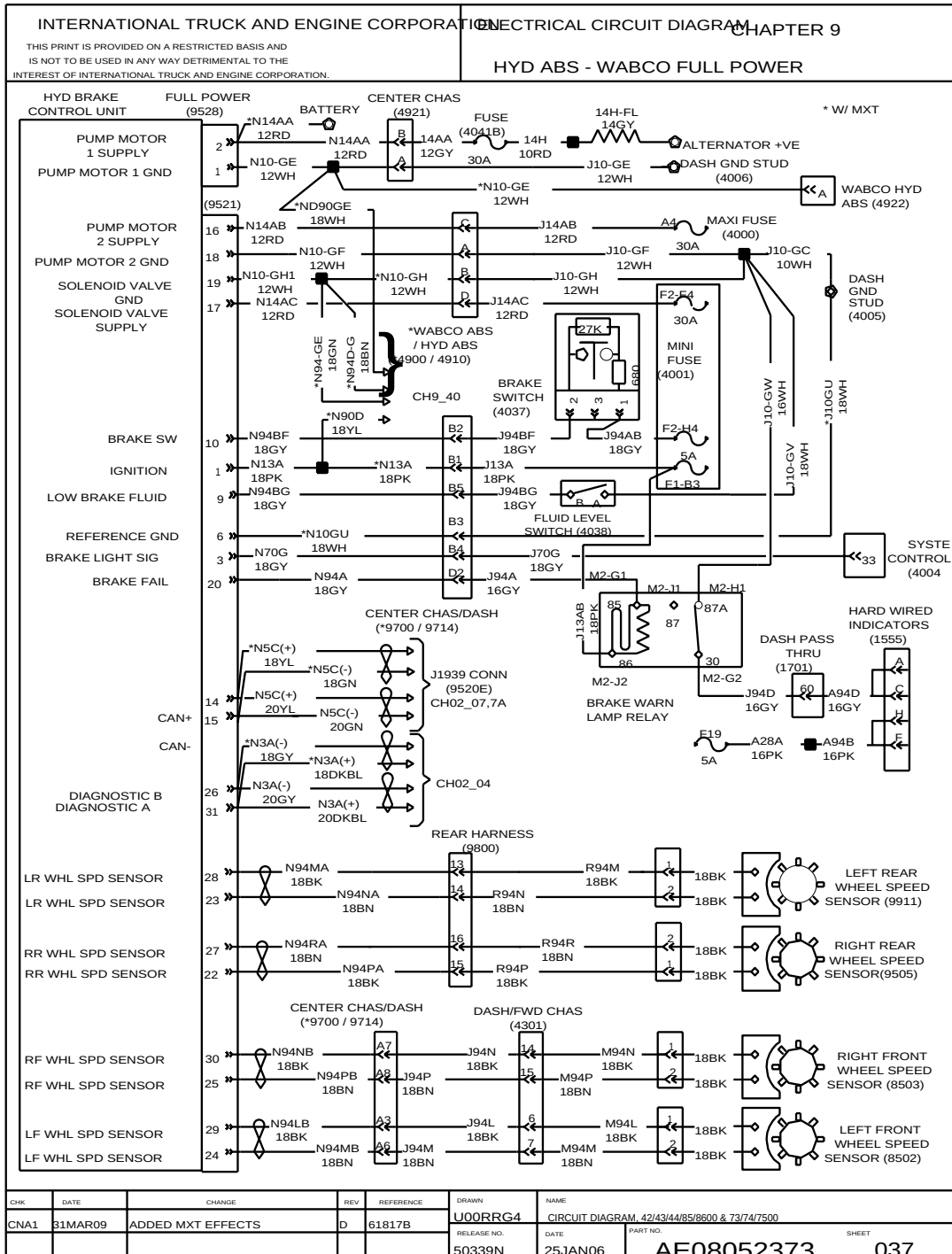


Figure 151 Air Park Brake Interlock

9.38. HYDRAULIC ABS — WABCO FULL POWER, P. 37

Figure 152 Hydraulic ABS — Wabco Full Power

9.39. CENTER PIN CIRCUIT, P. 38

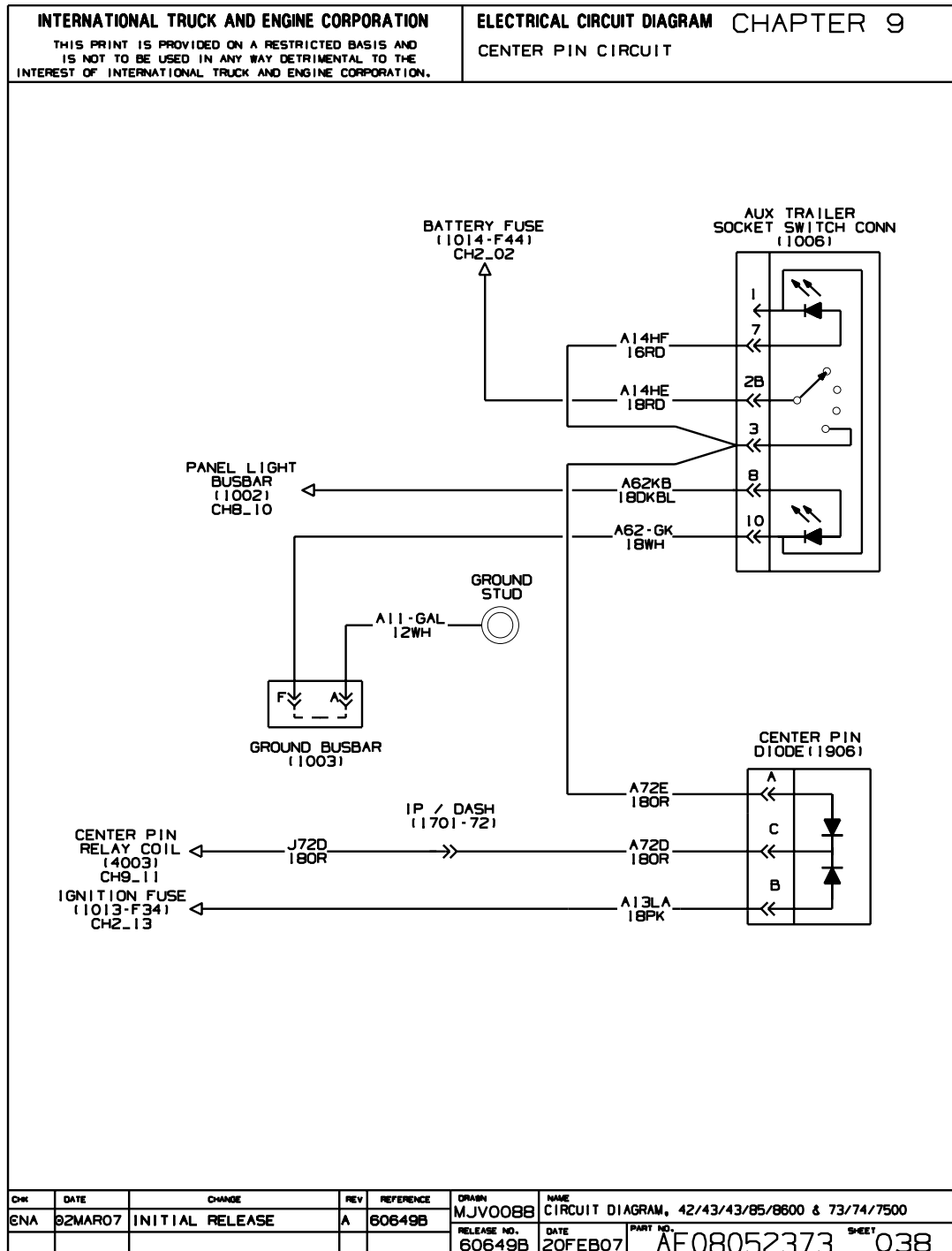


Figure 153 Center Pin Circuit

9.40. FIFTH WHEEL CIRCUIT, P. 39

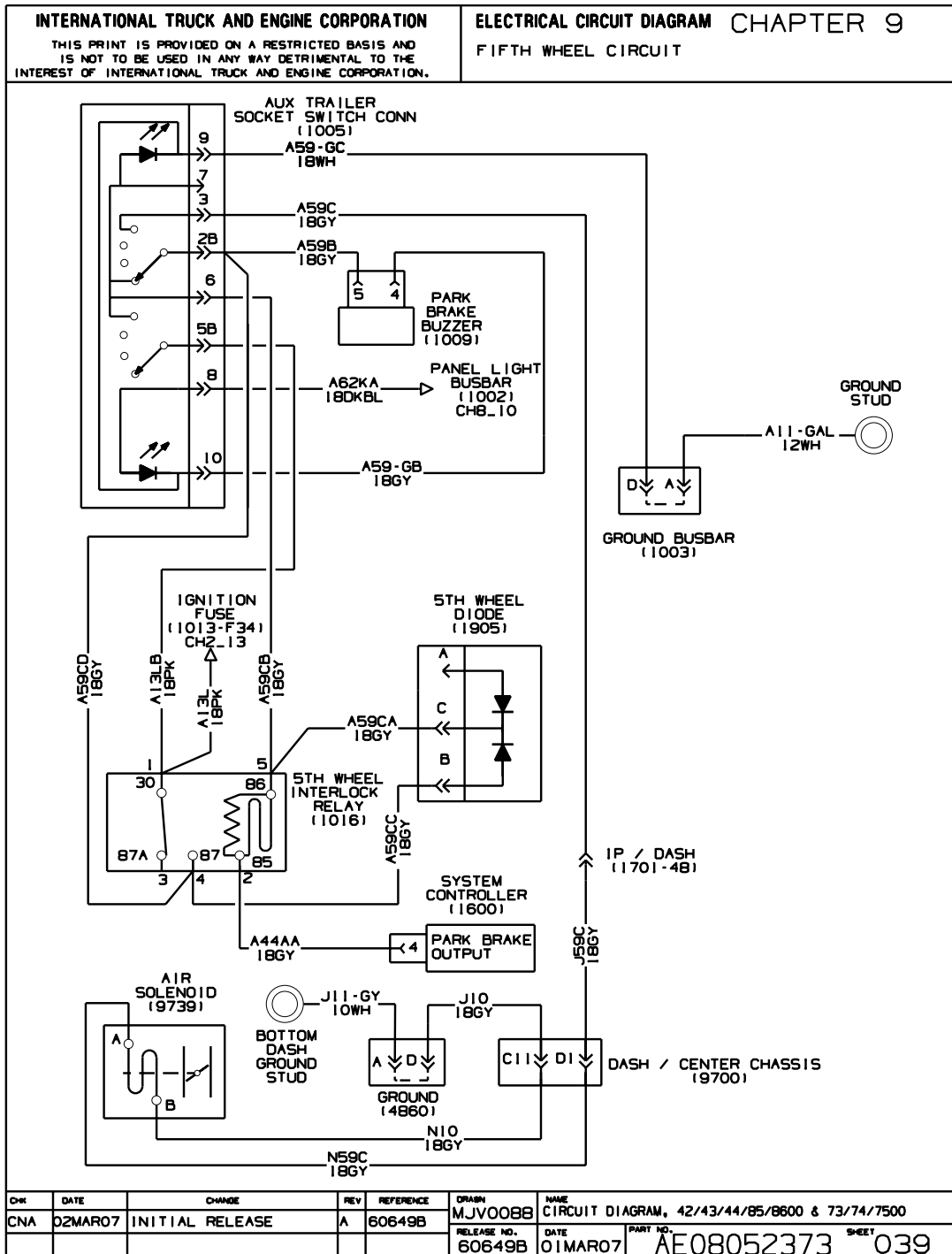


Figure 154 Fifth Wheel Circuit

9.41. HYDRAULIC POWER BRAKE WITH SAHR PARK BRAKES, P. 40

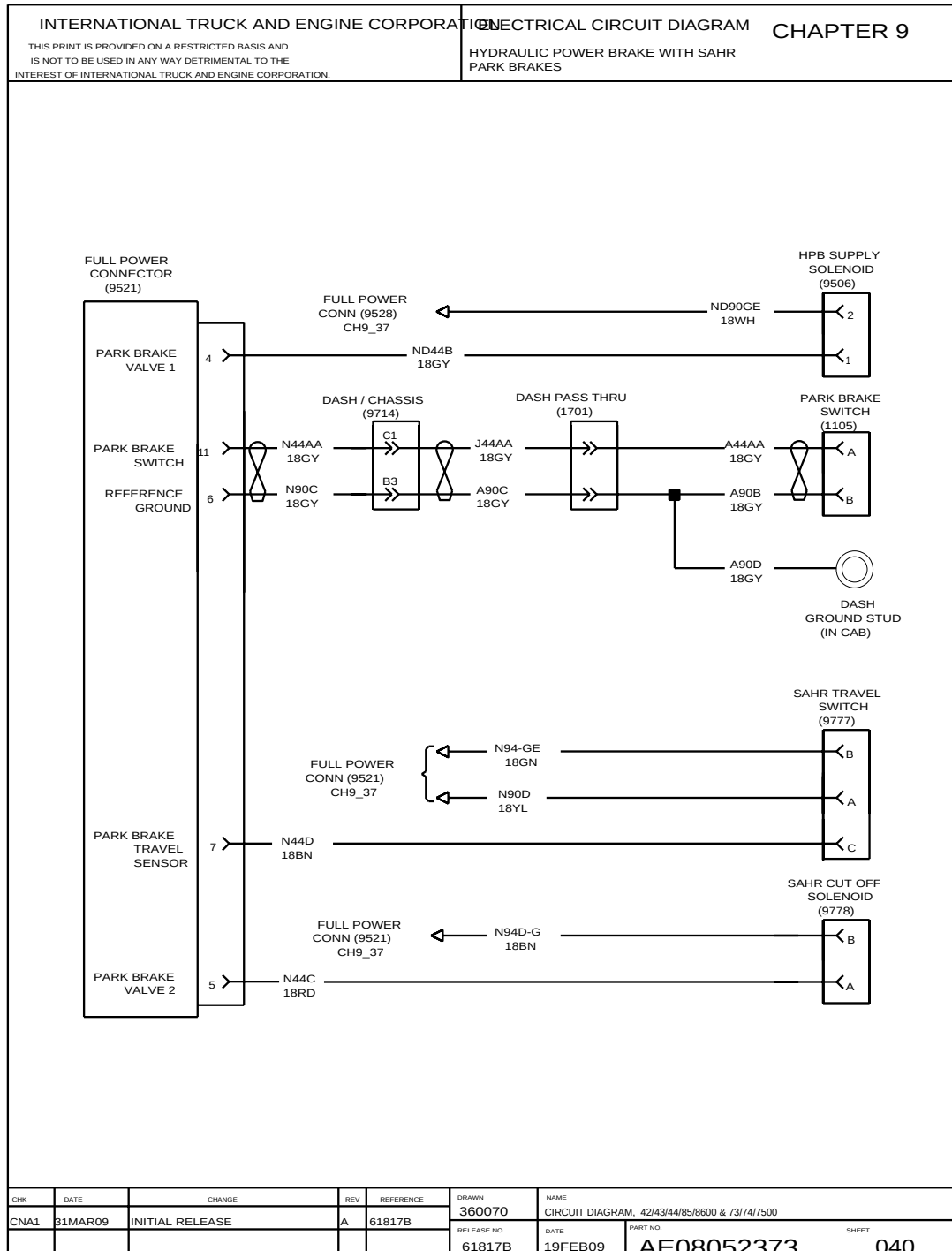


Figure 155 Hydraulic Power Brake with SAHR Park Brakes

9.43. ELECTRIC AIR COMPRESSOR, P. 42

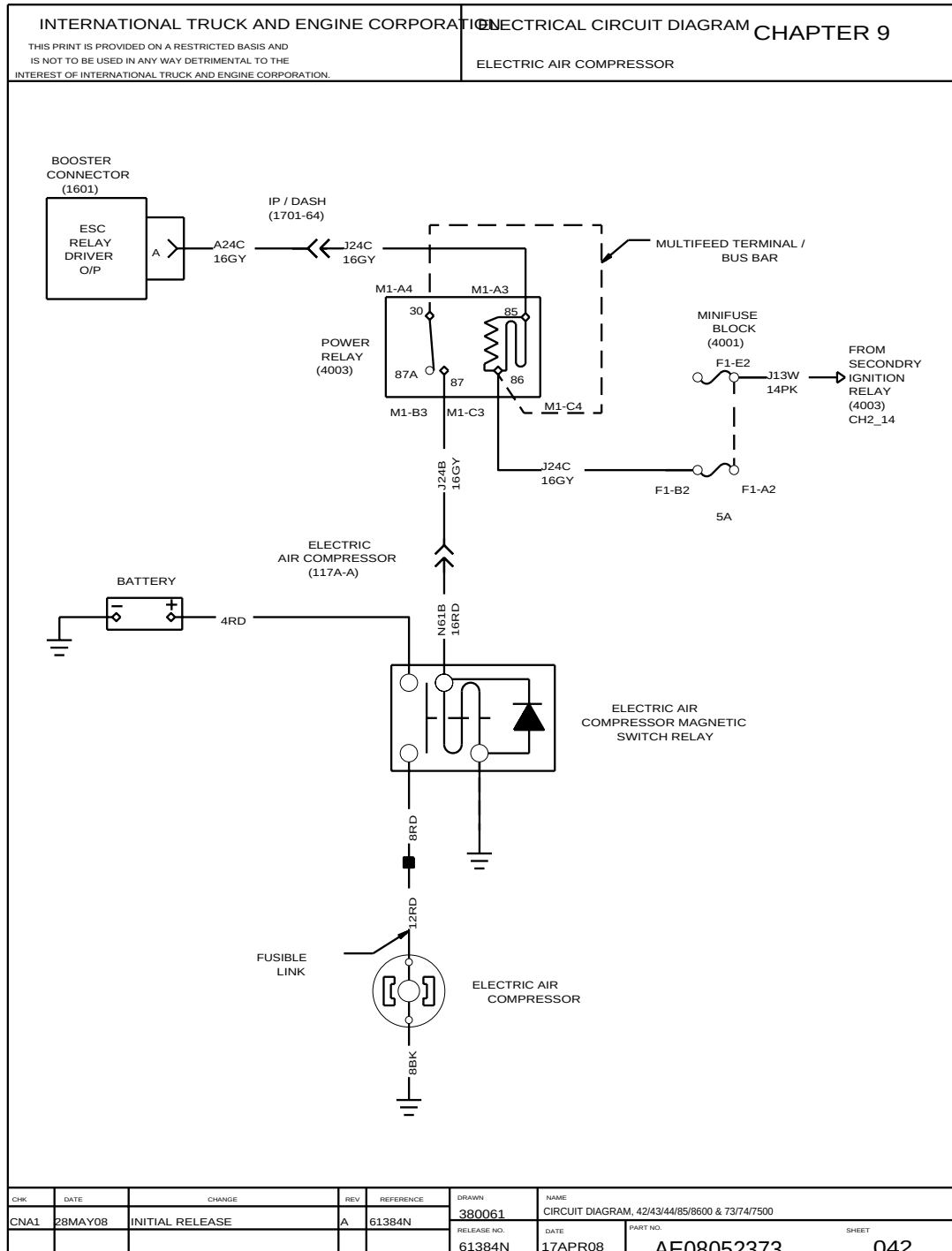


Figure 157 Electric Air Compressor

10. TRANSMISSIONS (CHAPTER 10)

10.1. ALLISON GEN4 LCT TRANSMISSION OR ALLISON 1000, 2000, 2400, P. 1

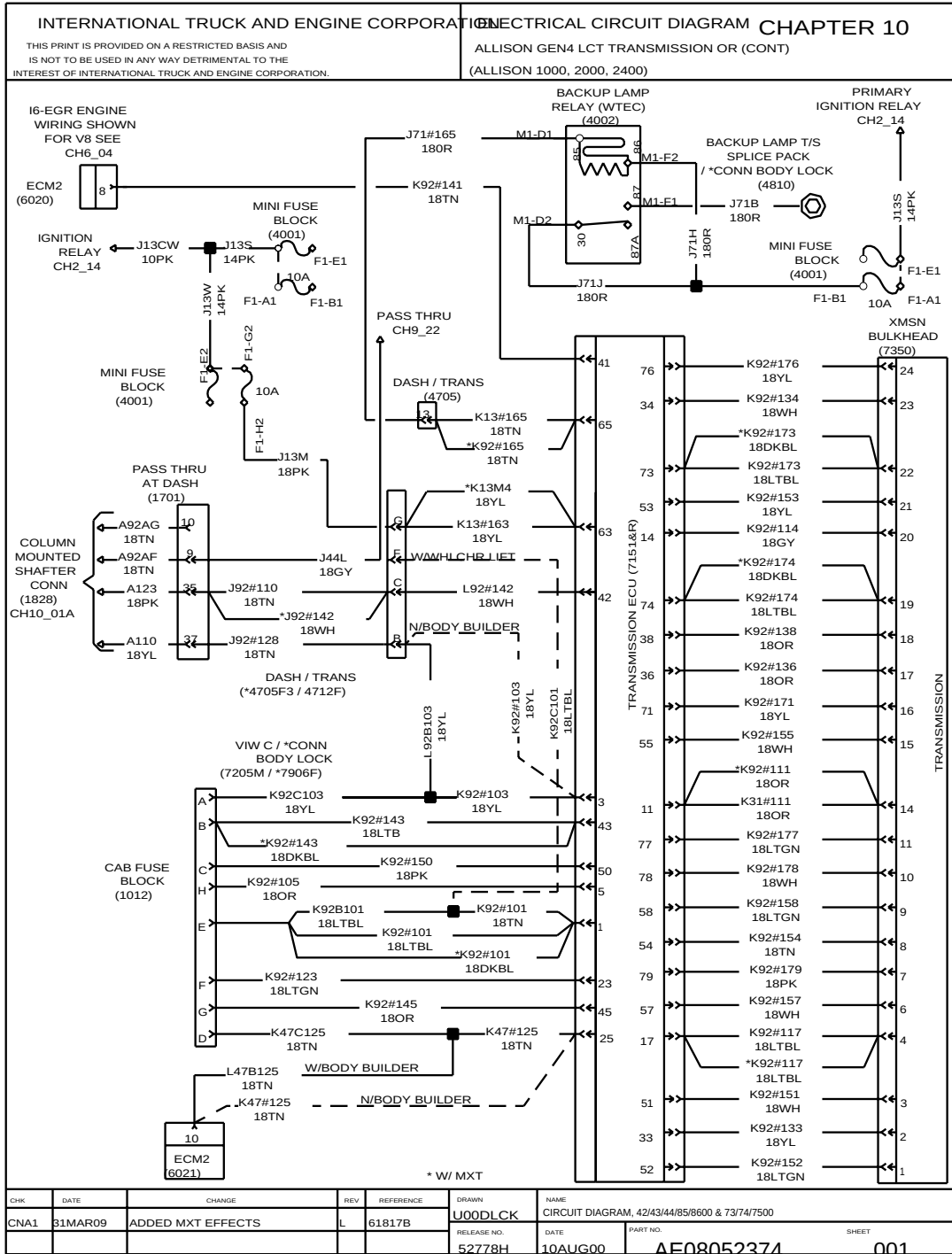


Figure 158 Allison GEN4 LCT Transmission or Allison 1000, 2000, 2400

3200, 4100, 4200, 4300, 4400, 7300, 7400, 7500, 7600, 7700, 8500, 8600, MXT, RXT
Models Built Oct. 1, 2005 to Feb. 28, 2007 — ELECTRICAL CIRCUIT DIAGRAMS

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10.2. ALLISON GEN4 LCT TRANSMISSION OR ALLISON 1000, 2000, 2400, P. 1A

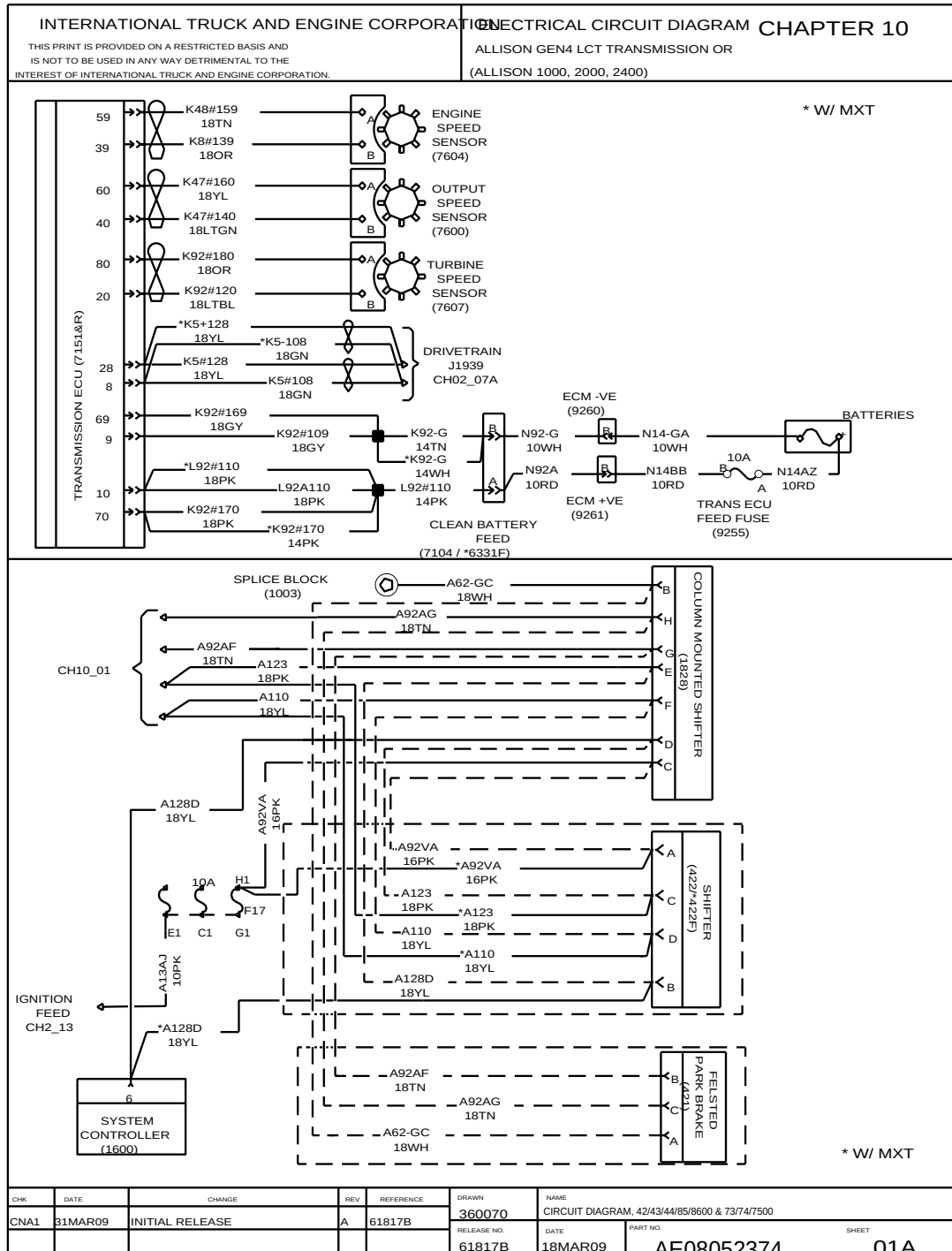


Figure 159 Allison GEN4 LCT Transmission or Allison 1000, 2000, 2400

10.3. TRANSMISSION, LCT WITH V8, P. 1B

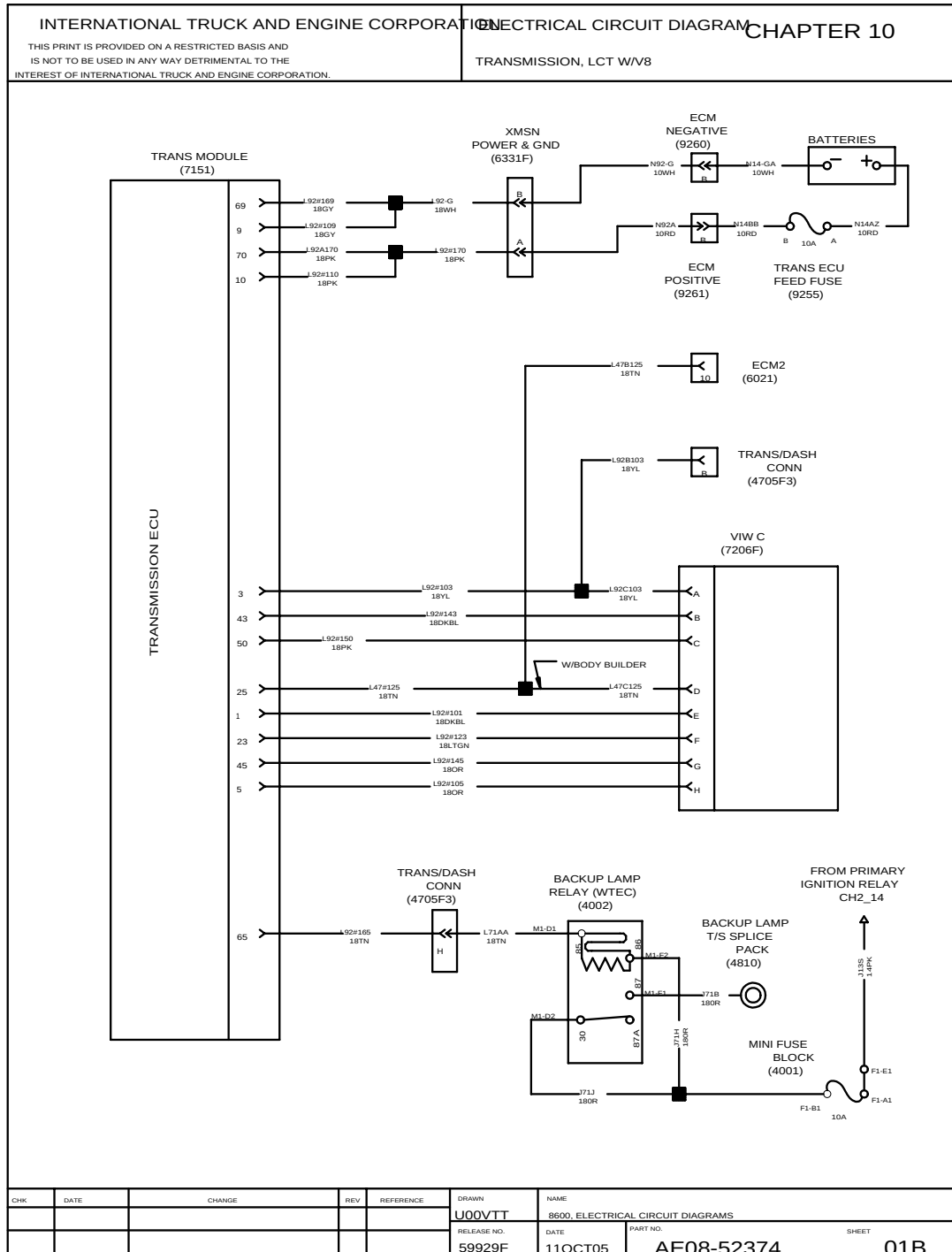


Figure 160 Transmission, LCT with V8

10.4. ALLISON MD TRANSMISSION, P. 2



10.5. ALLISON GEN4 MD TRANSMISSION (WTEC), P. 3

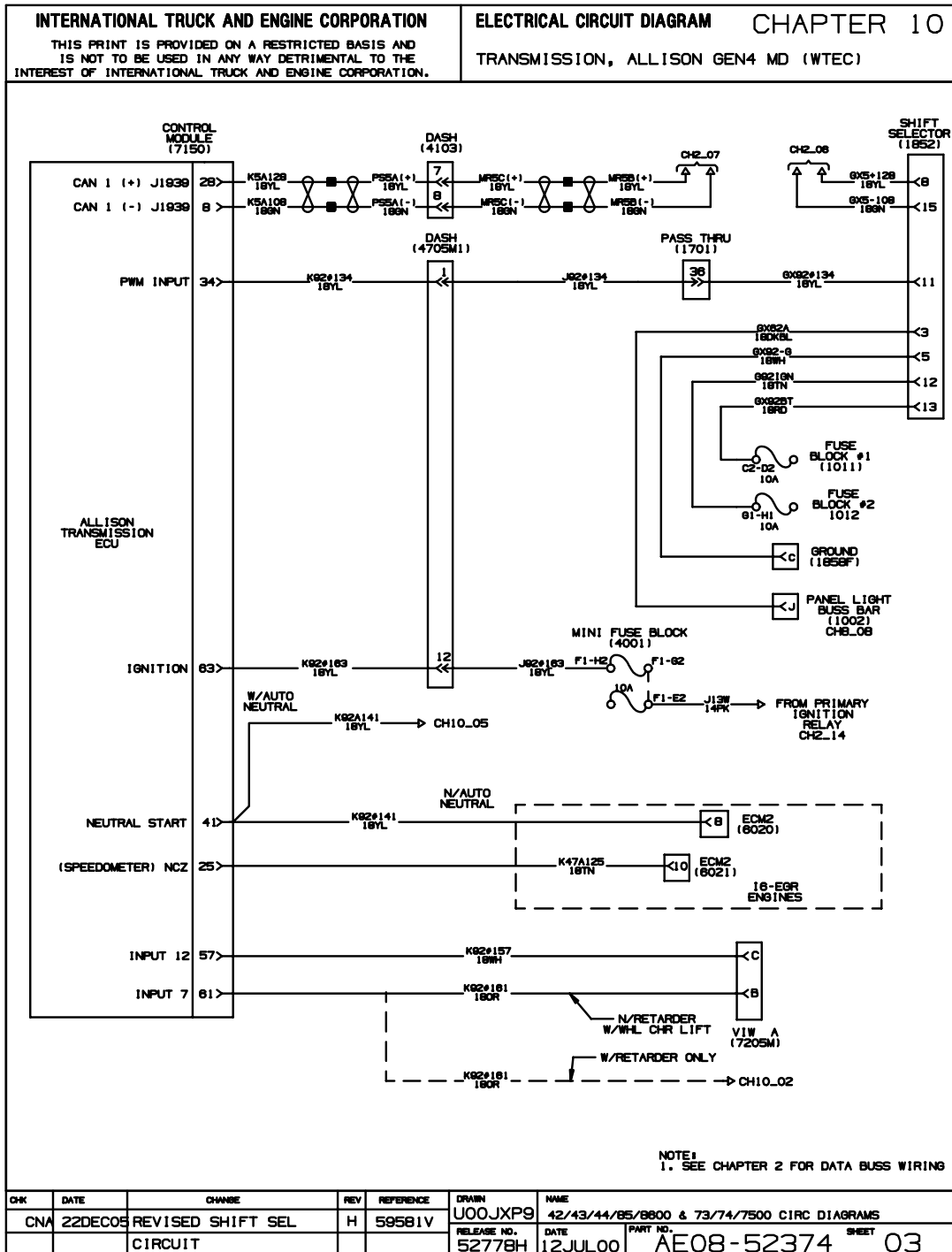


Figure 162 Allison MD Transmission (WTEC)

10.6. ALLISON MD TRANSMISSION (CONT.), P. 4

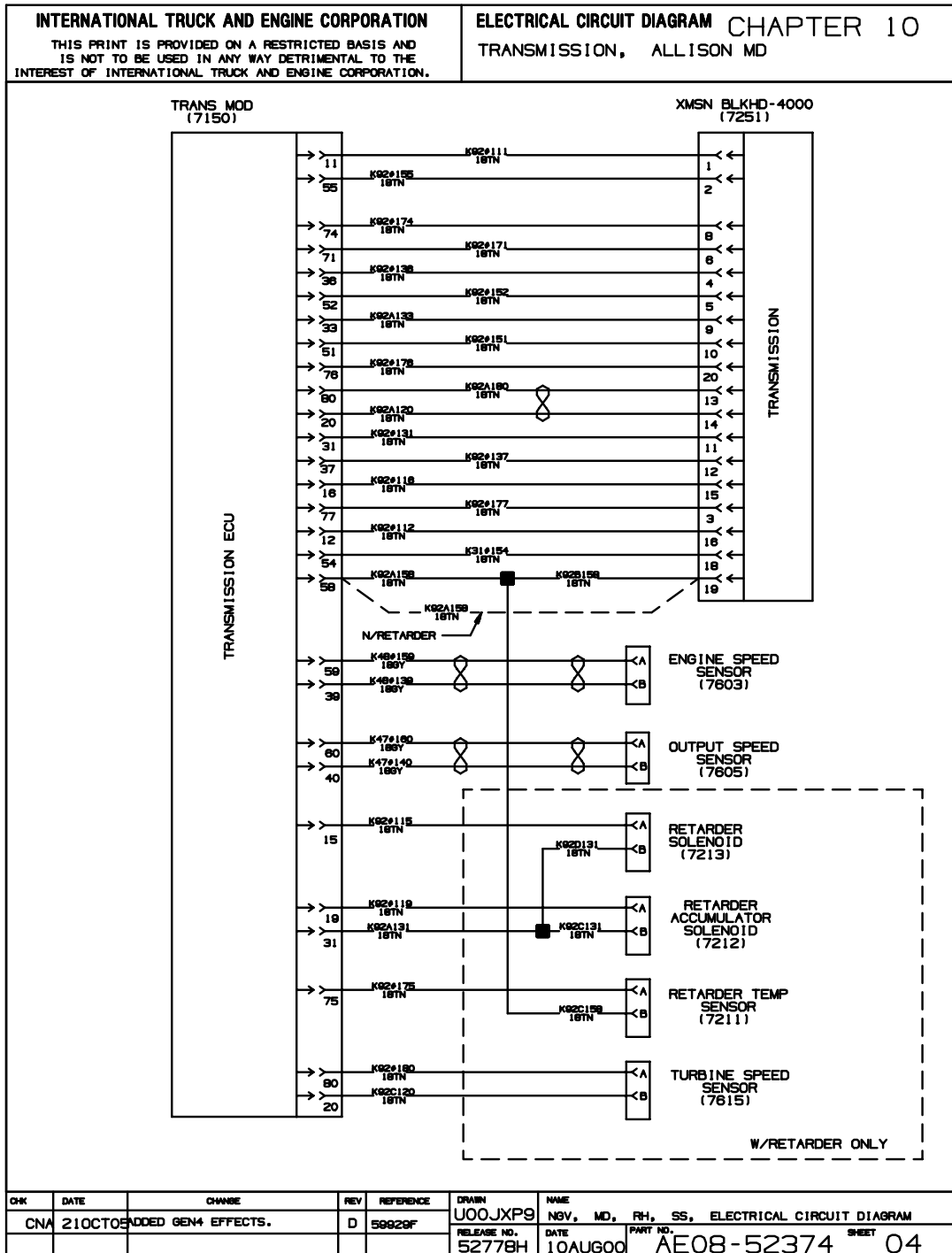


Figure 163 Allison MD Transmission (Cont.)

10.7. TRANSMISSION, WTEC MD W/AUTO NEUTRAL, P. 5

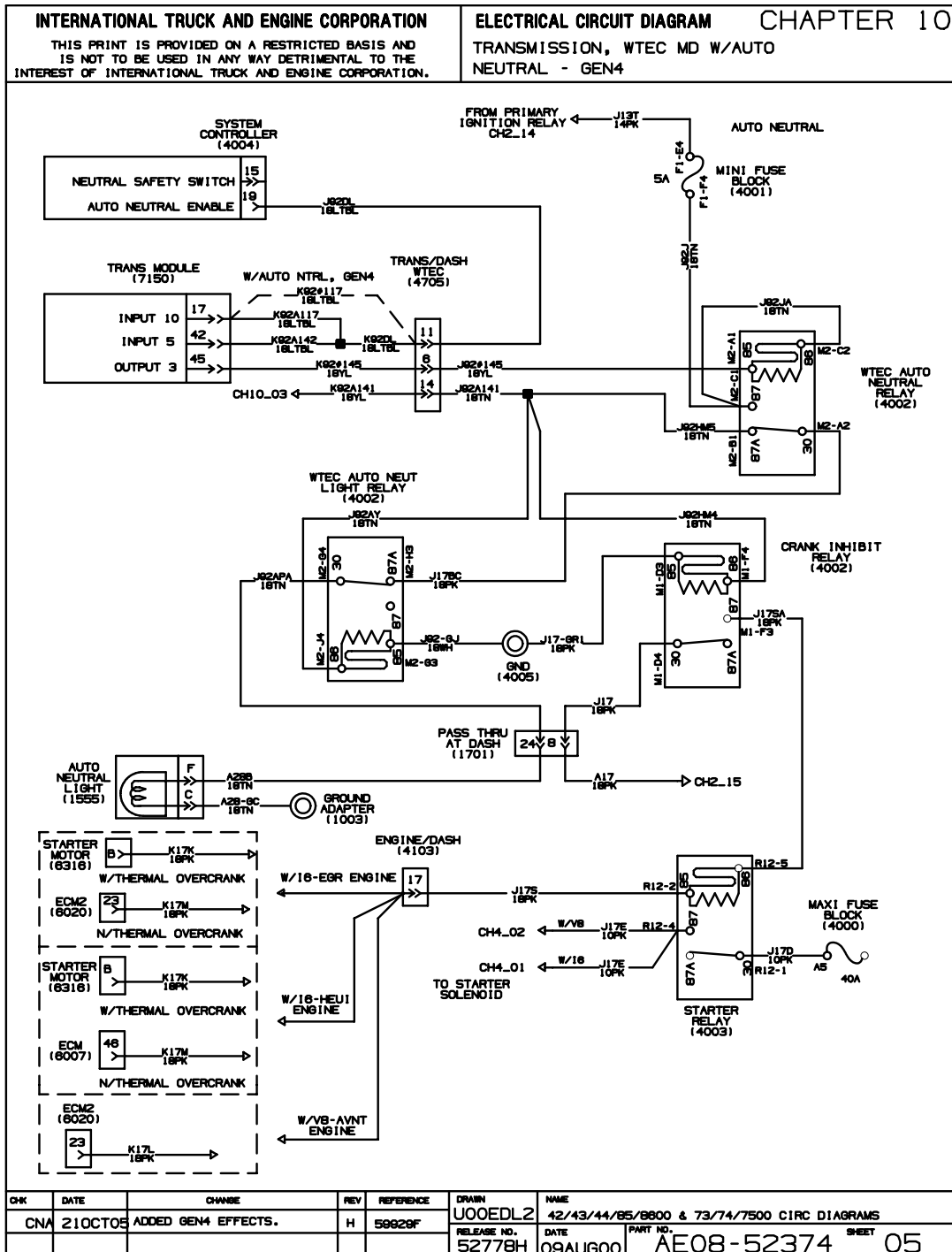


Figure 164 Transmission, WTEC MD W/Auto Neutral

10.8. TRANSMISSION, WTEC WITH V8, P. 5A

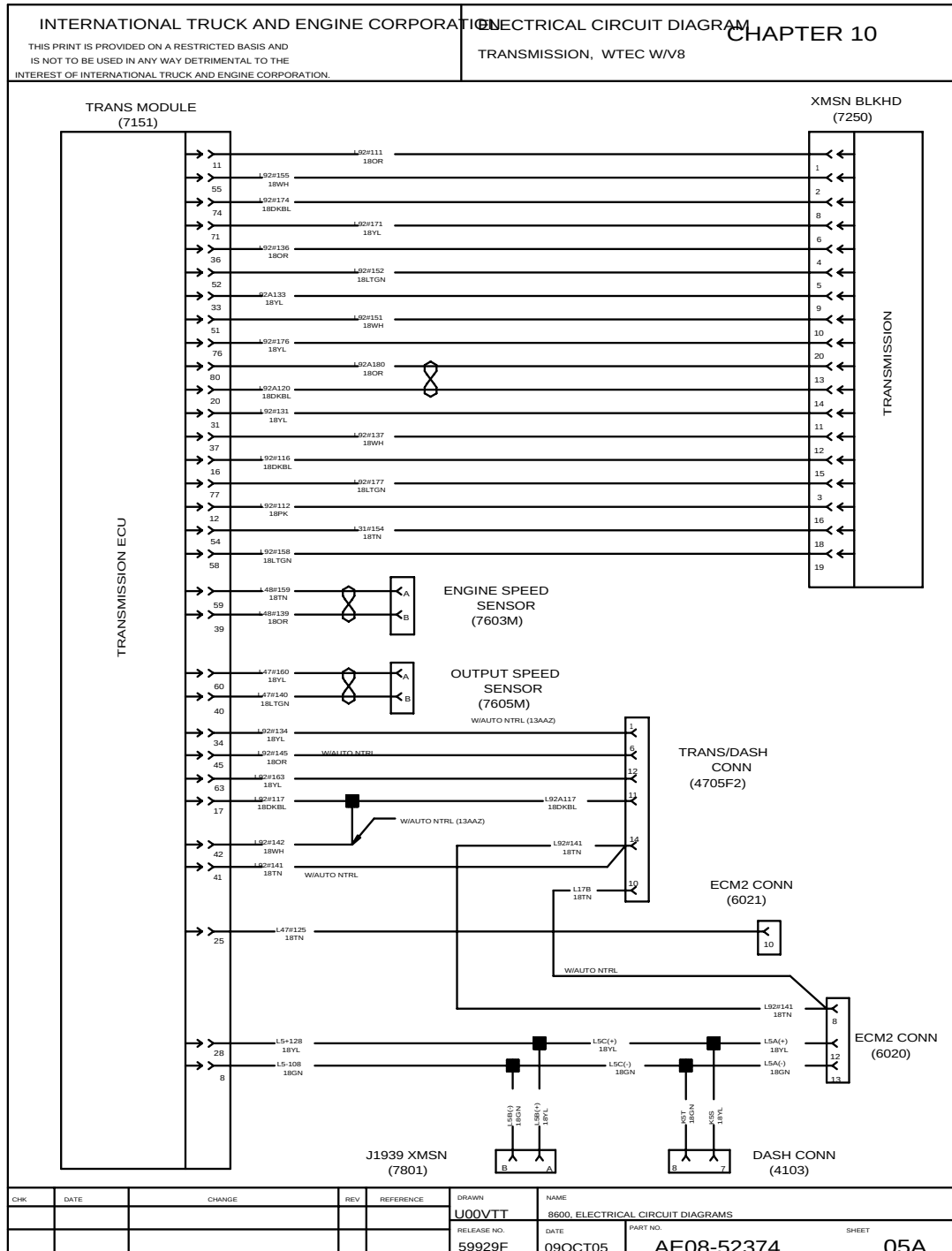


Figure 165 Transmission, WTEC with V8

10.9. TRANSMISSION, WTEC WITH V8, P. 5B

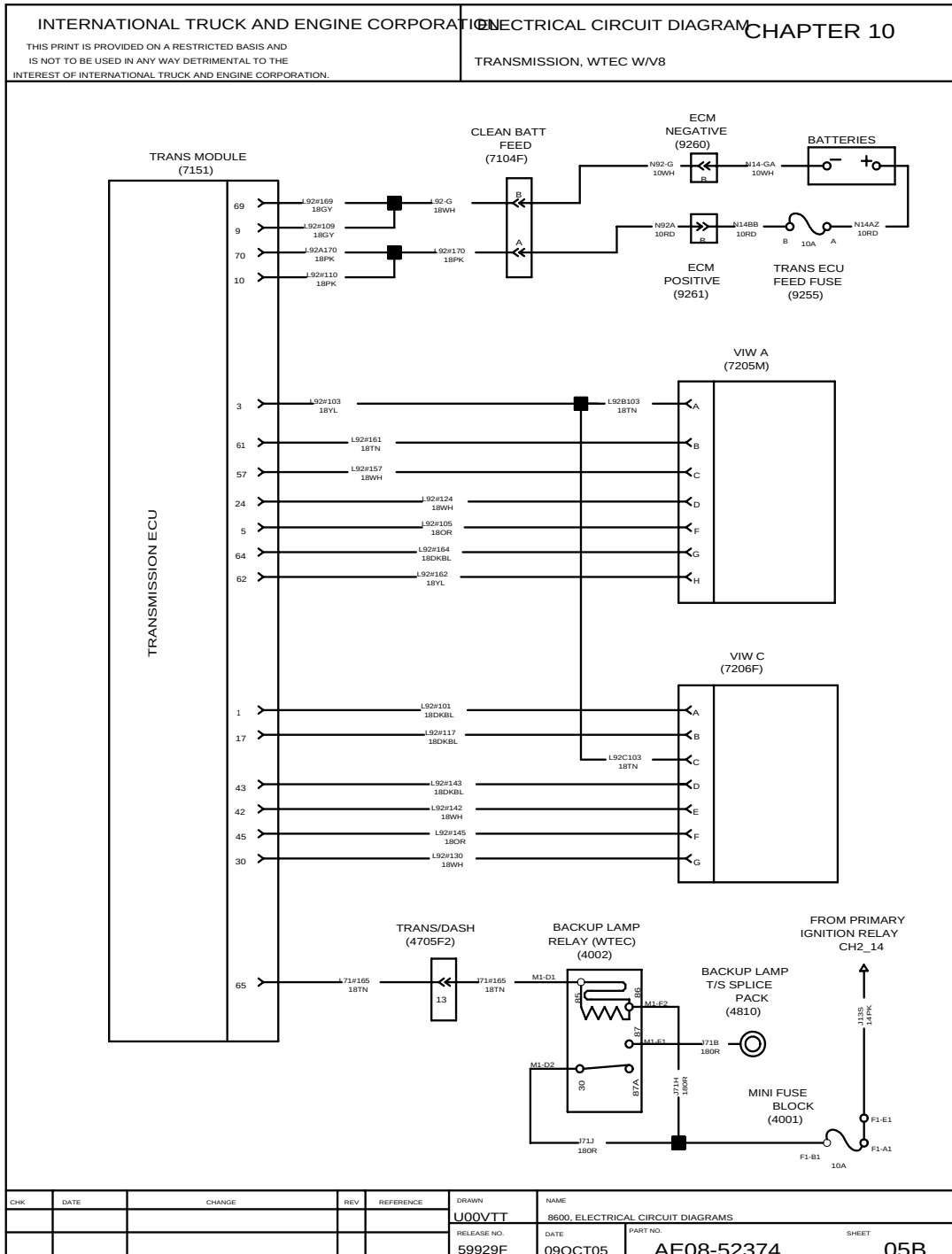


Figure 166 Transmission, WTEC with V8

10.10. EATON AUTOSHIFT TRANSMISSION, P. 6

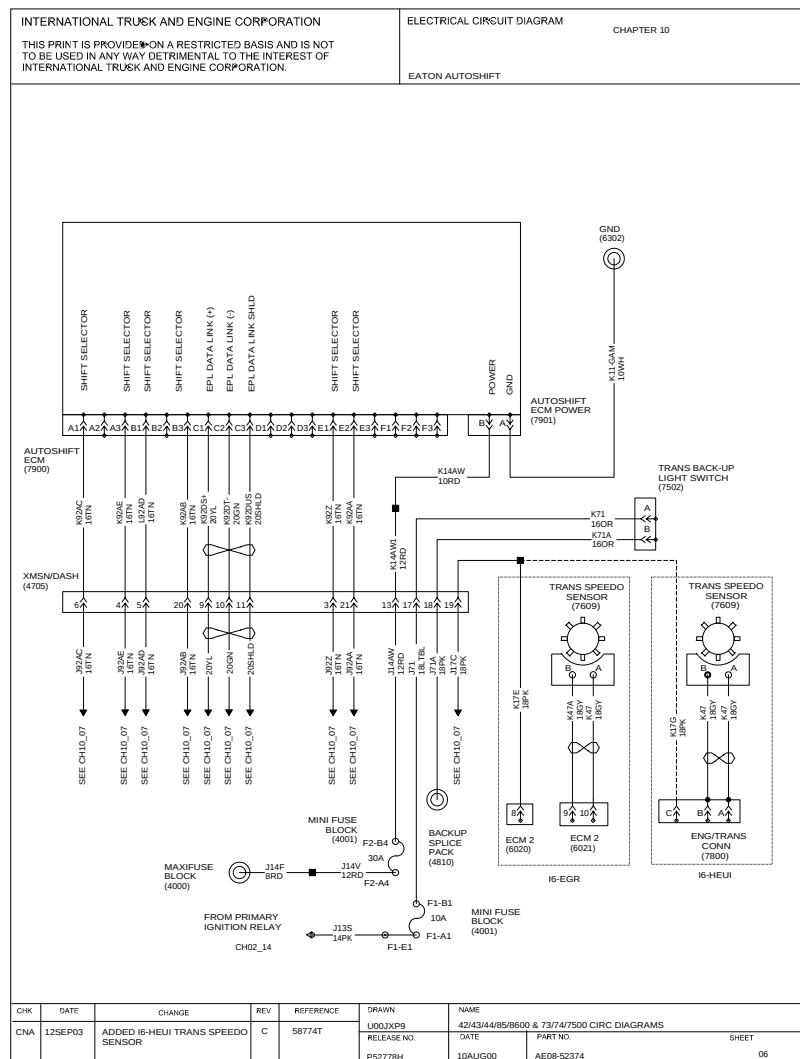


Figure 167 Eaton Autoshift Transmission

10.11. EATON AUTOSHIFT TRANSMISSION (CONT.), P. 7

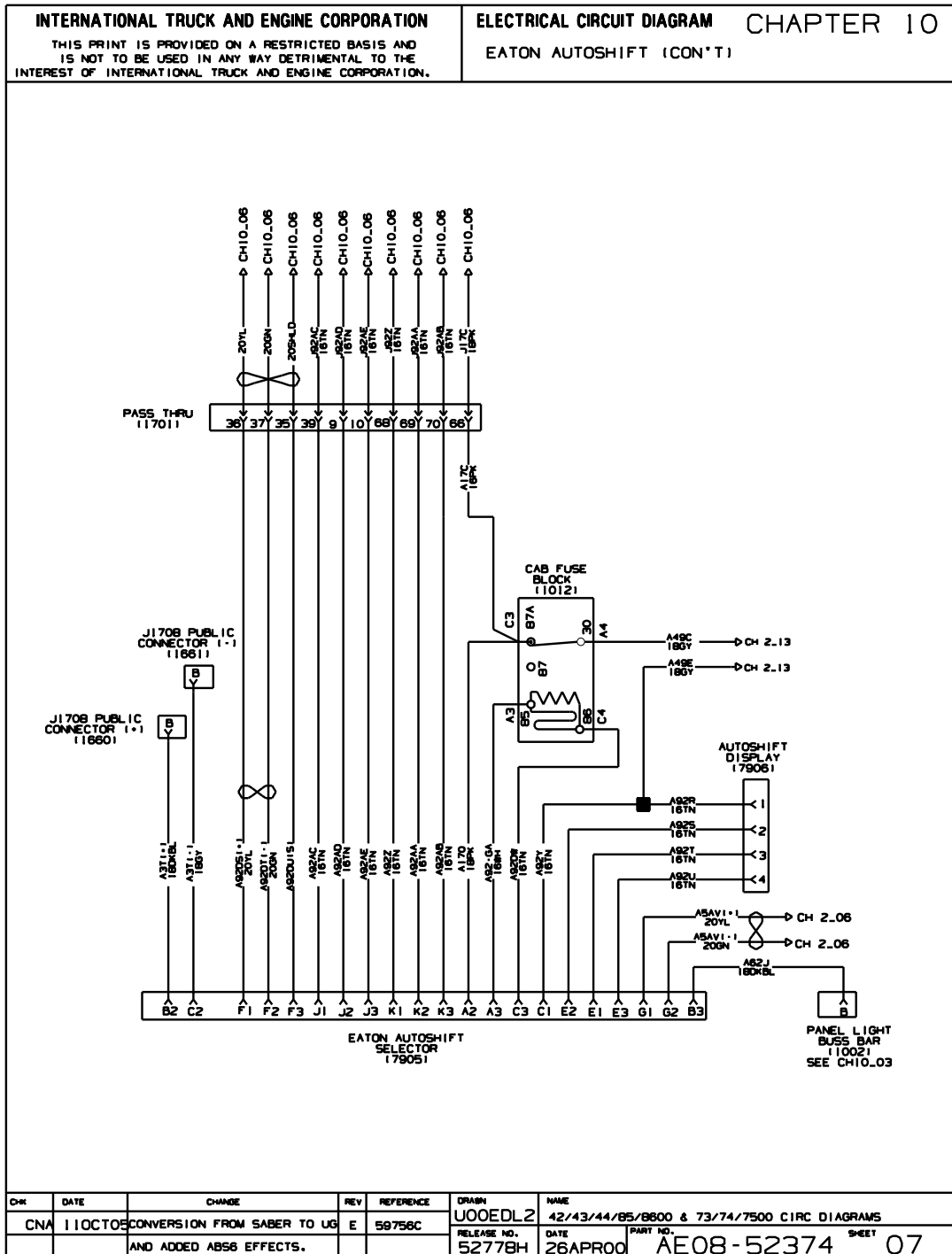


Figure 168 Eaton Autoshift Transmission (Cont.)

10.12. EATON LIGHTNING TRANSMISSION, P. 8

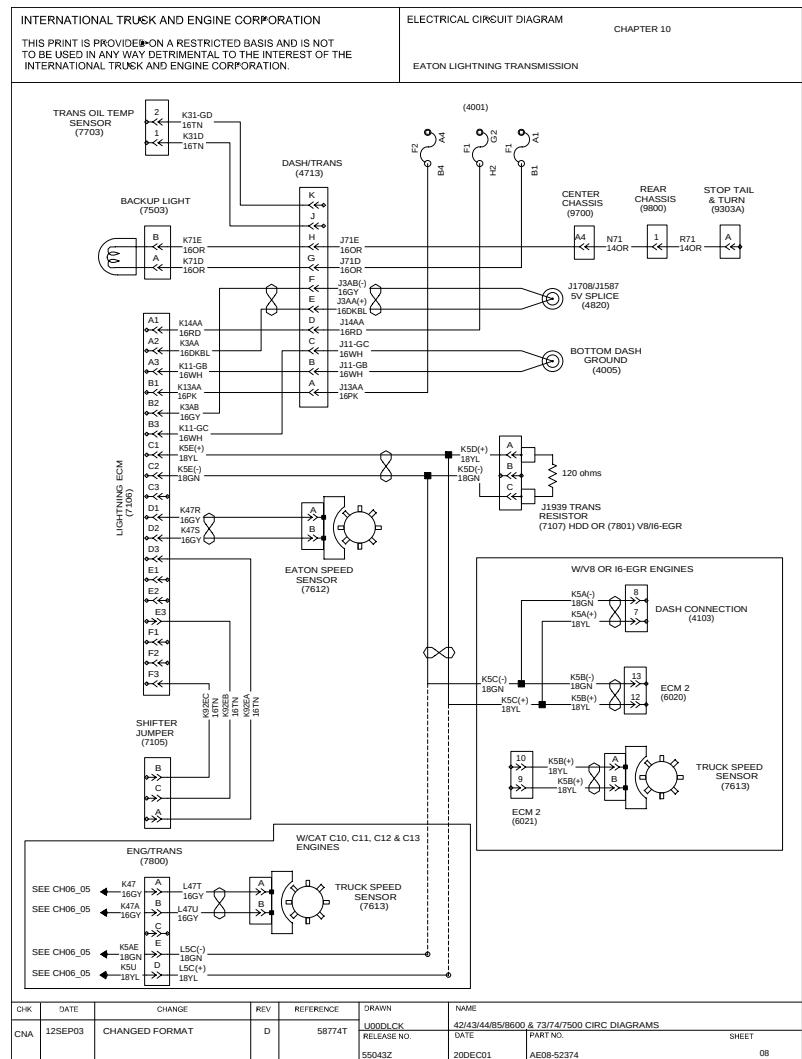


Figure 169 Eaton Lightning Transmission

10.13. ALLISON HD TRANSMISSION, P. 9

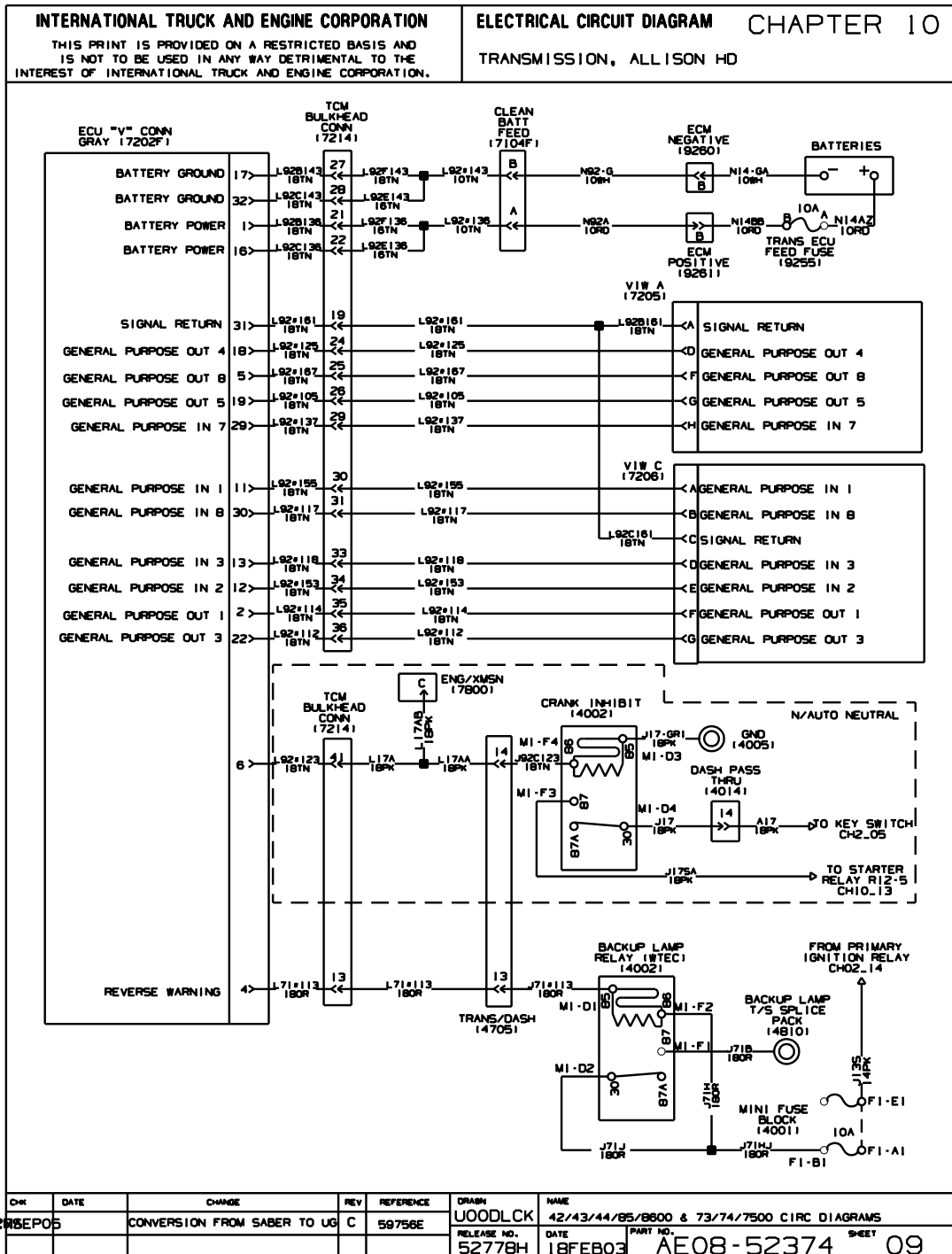


Figure 170 Allison HD Transmission

3200, 4100, 4200, 4300, 4400, 7300, 7400, 7500, 7600, 7700, 8500, 8600, MXT, RXT
Models Built Oct. 1, 2005 to Feb. 28, 2007 — ELECTRICAL CIRCUIT DIAGRAMS

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10.14. ALLISON HD TRANSMISSION, P. 10

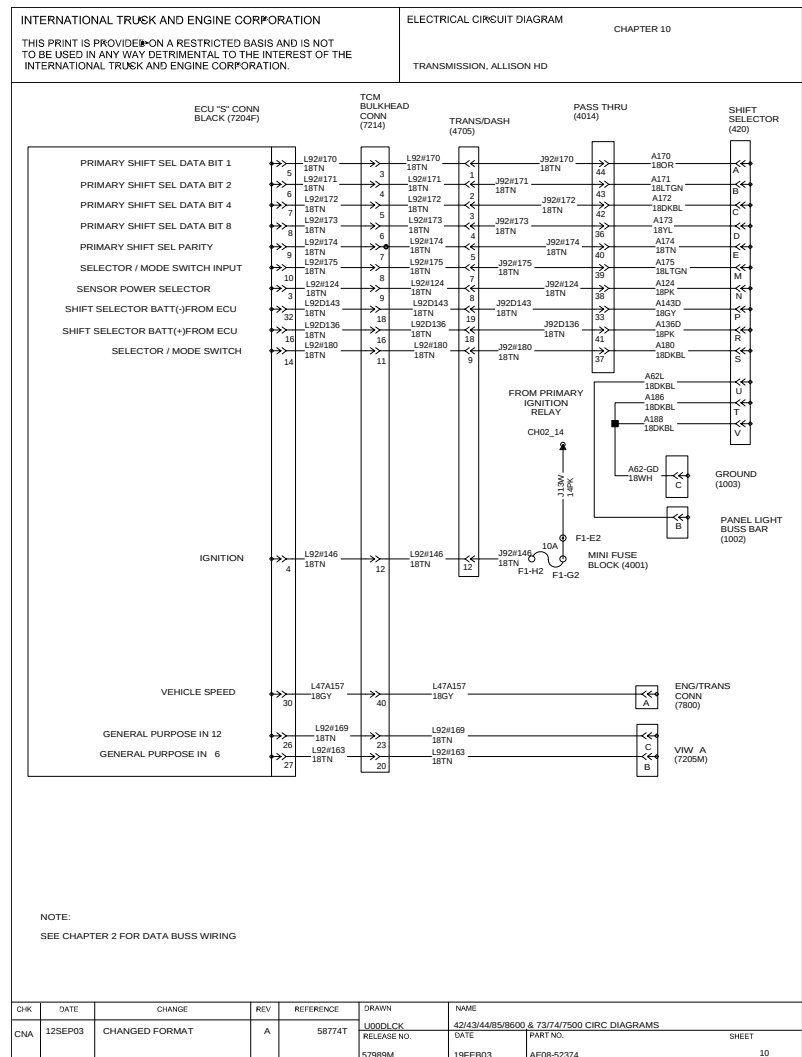
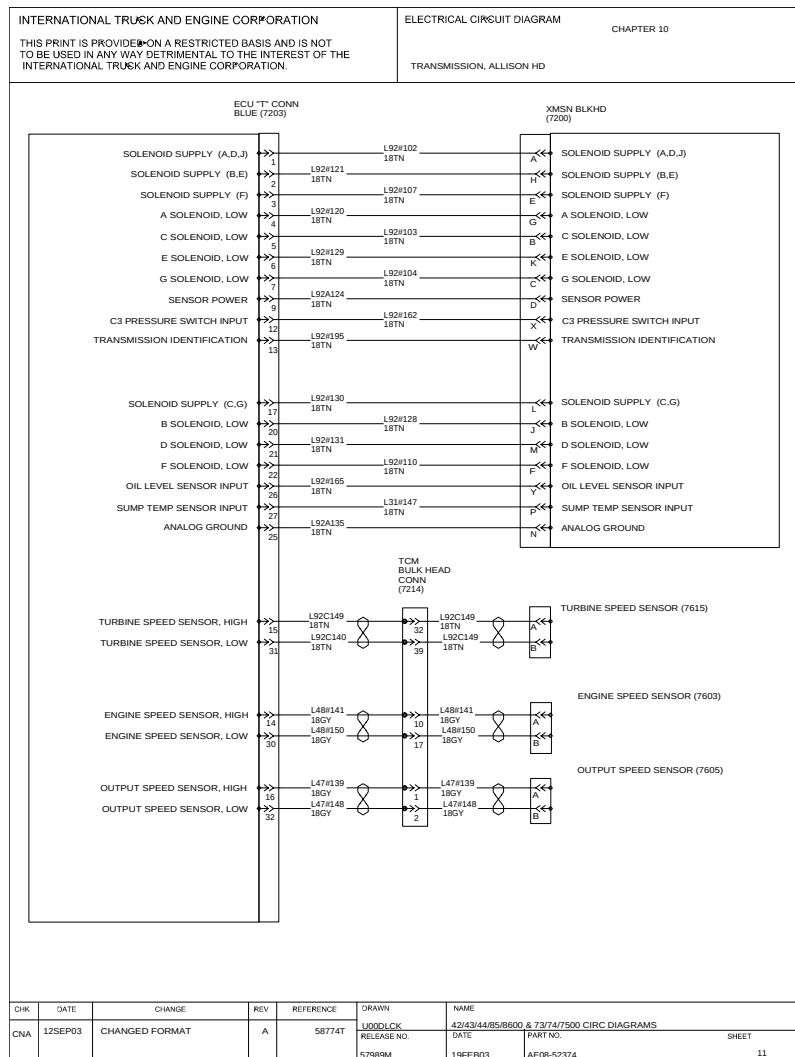
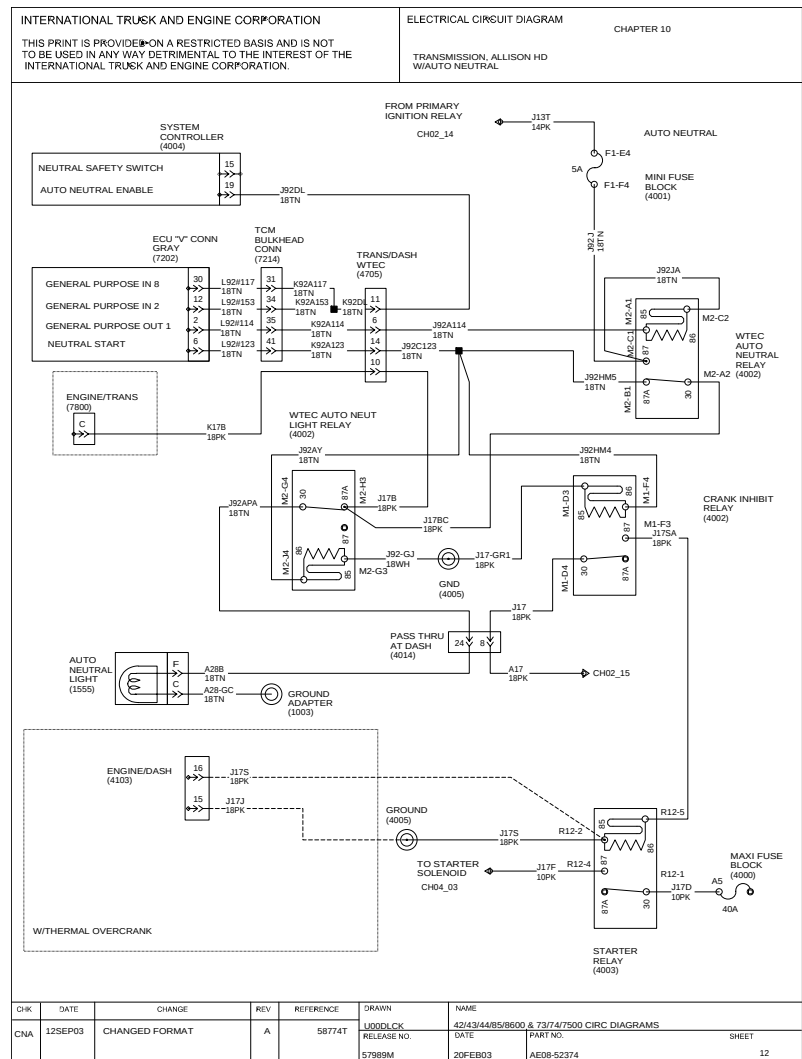


Figure 171 Allison HD Transmission (Cont.)

10.15. ALLISON HD TRANSMISSION, P. 11**Figure 172 Allison HD Transmission (Cont.)**

10.16. ALLISON HD TRANSMISSION WITH AUTO NEUTRAL, P. 12



10.17. ALLISON HD TRANSMISSION WITH AUTO NEUTRAL — GEN4, P. 13

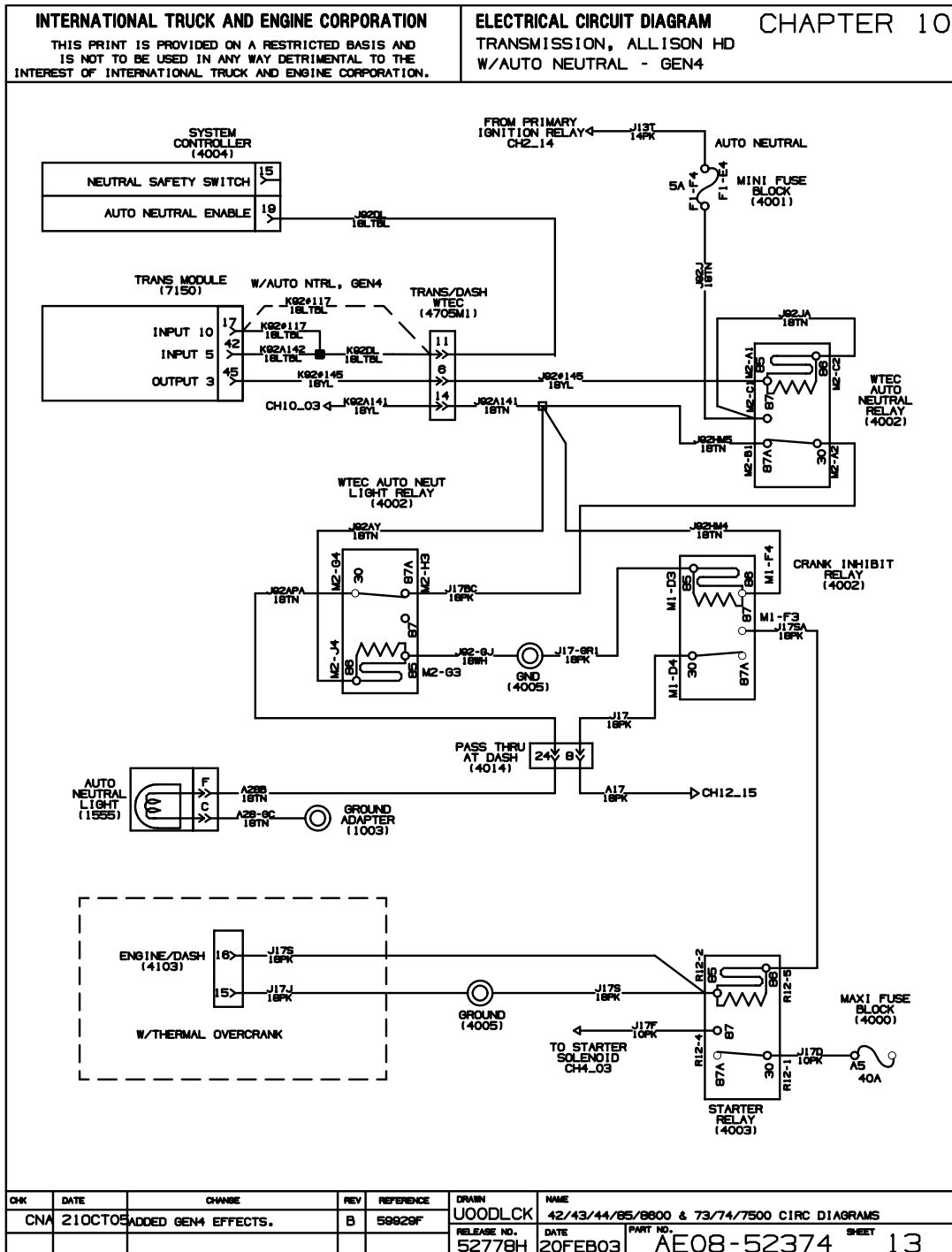


Figure 174 Allison HD Transmission With Auto Neutral — GEN4

10.18. ALLISON LCT TRANSMISSION (ALLISON 1000, 2000, 2400) WITH I6 HEUI, P. 14

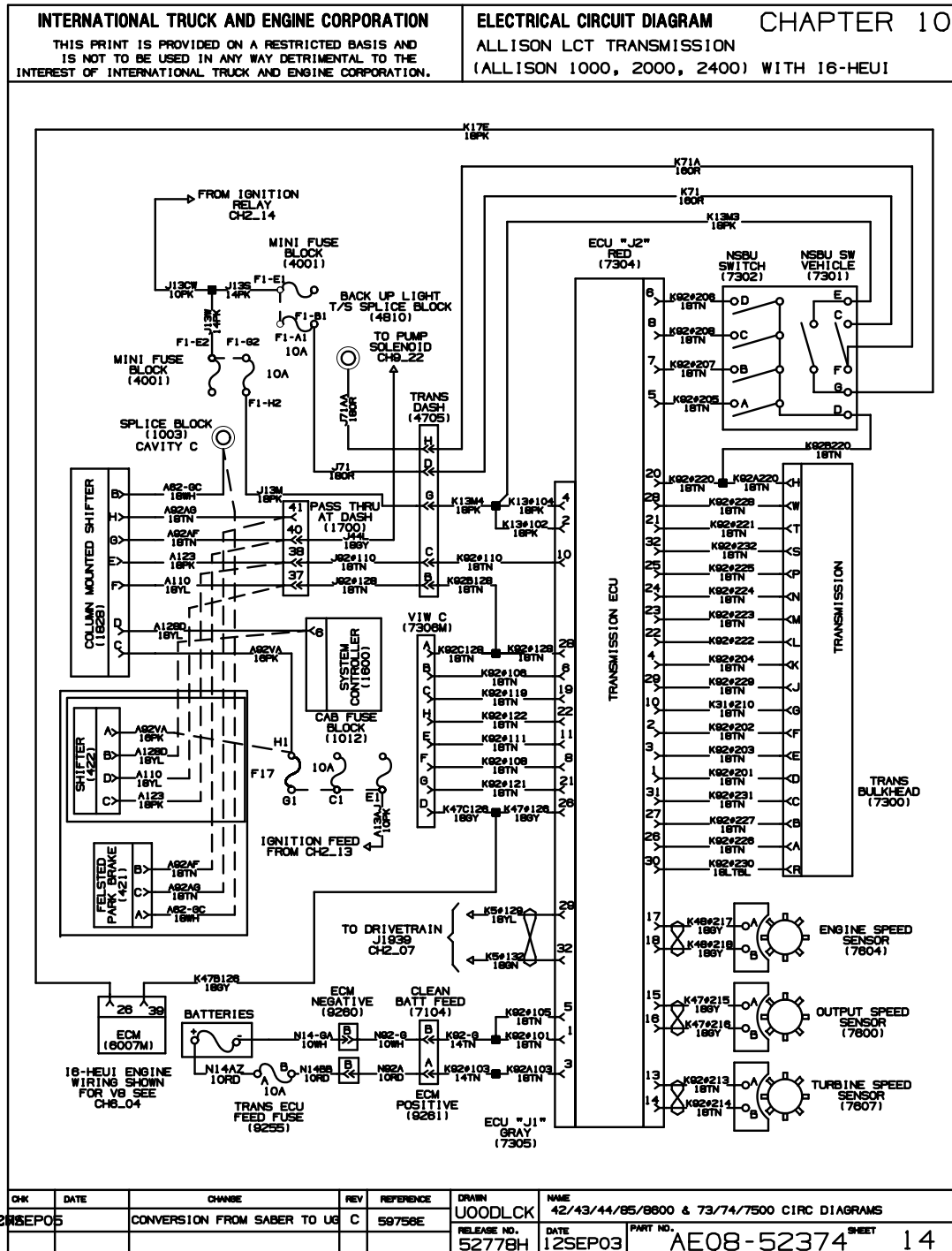
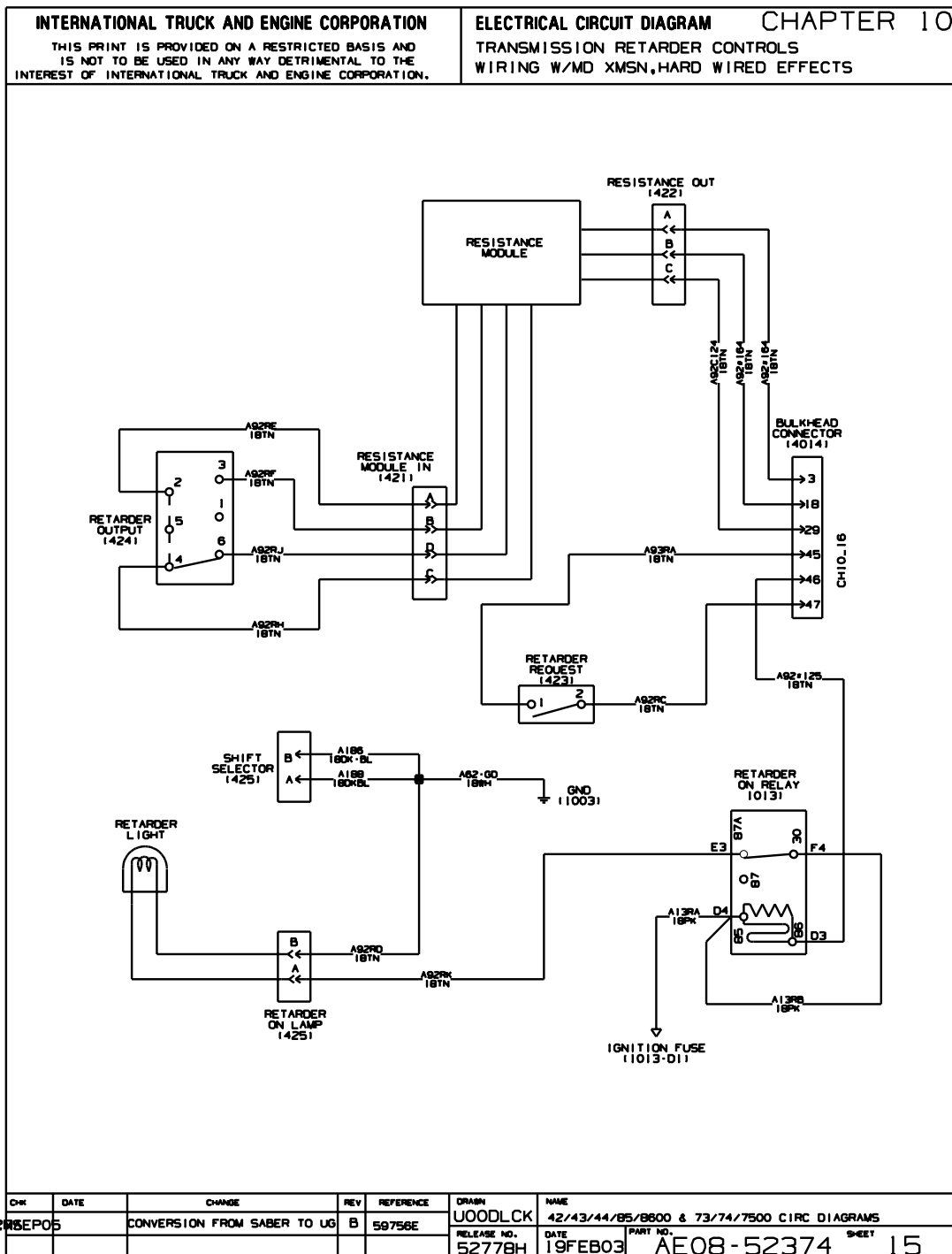


Figure 175 Allison LCT Transmission (Allison 1000, 2000, 2400) with I6 HEUI

10.19. TRANSMISSION RETARDER CONTROL WIRING WITH MD XMSN, HARD WIRED EFFECTS, P. 15**Figure 176 Transmission Retarder Control Wiring with MD Transmission, Hard Wired Effects**

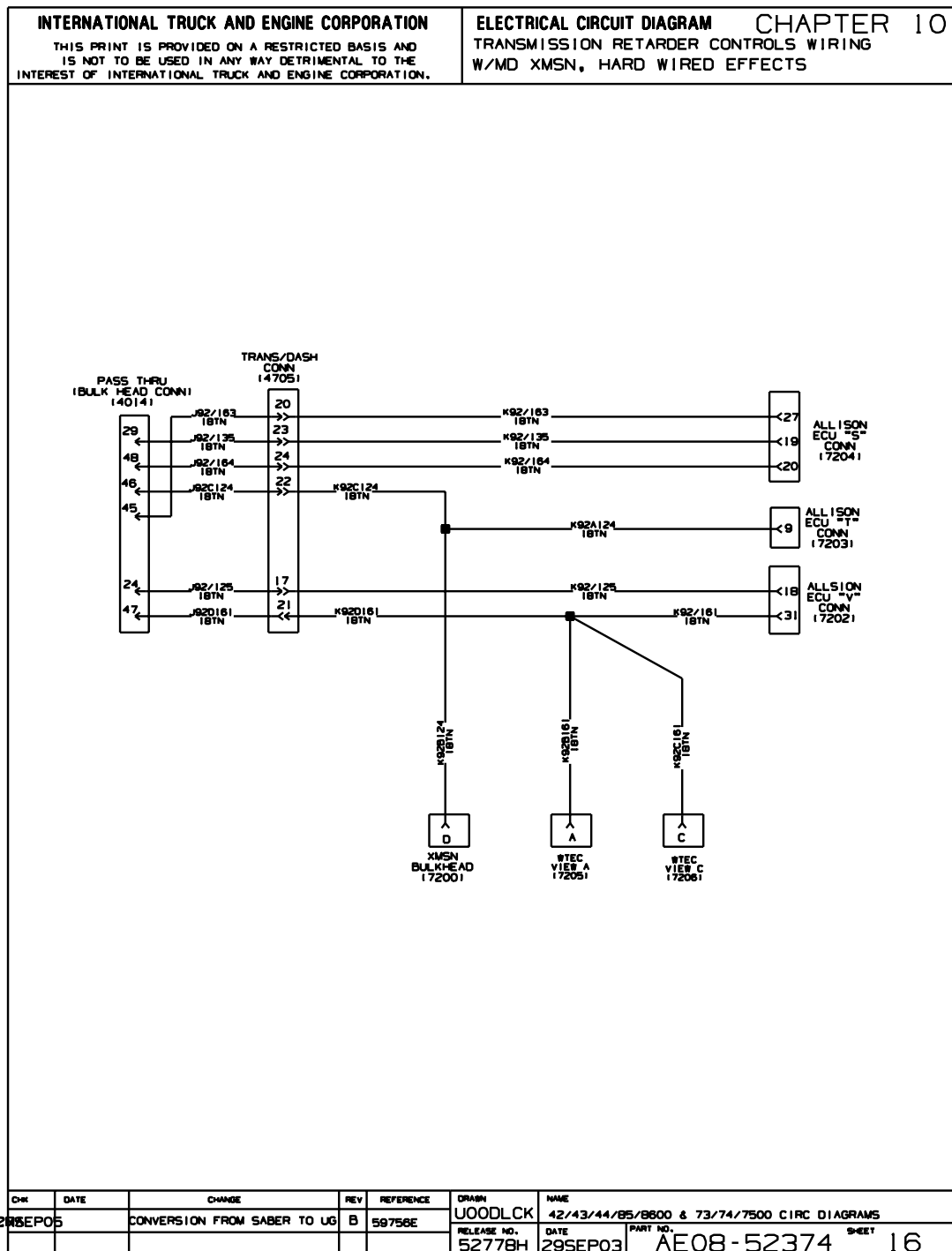
10.20. TRANSMISSION RETARDER CONTROL WIRING WITH MD XMSN, HARD WIRED EFFECTS, P. 16

Figure 177 Transmission Retarder Control Wiring with MD Transmission, Hard Wired Effects

10.21. EATON ULTRASHIFT/DM2, P. 17

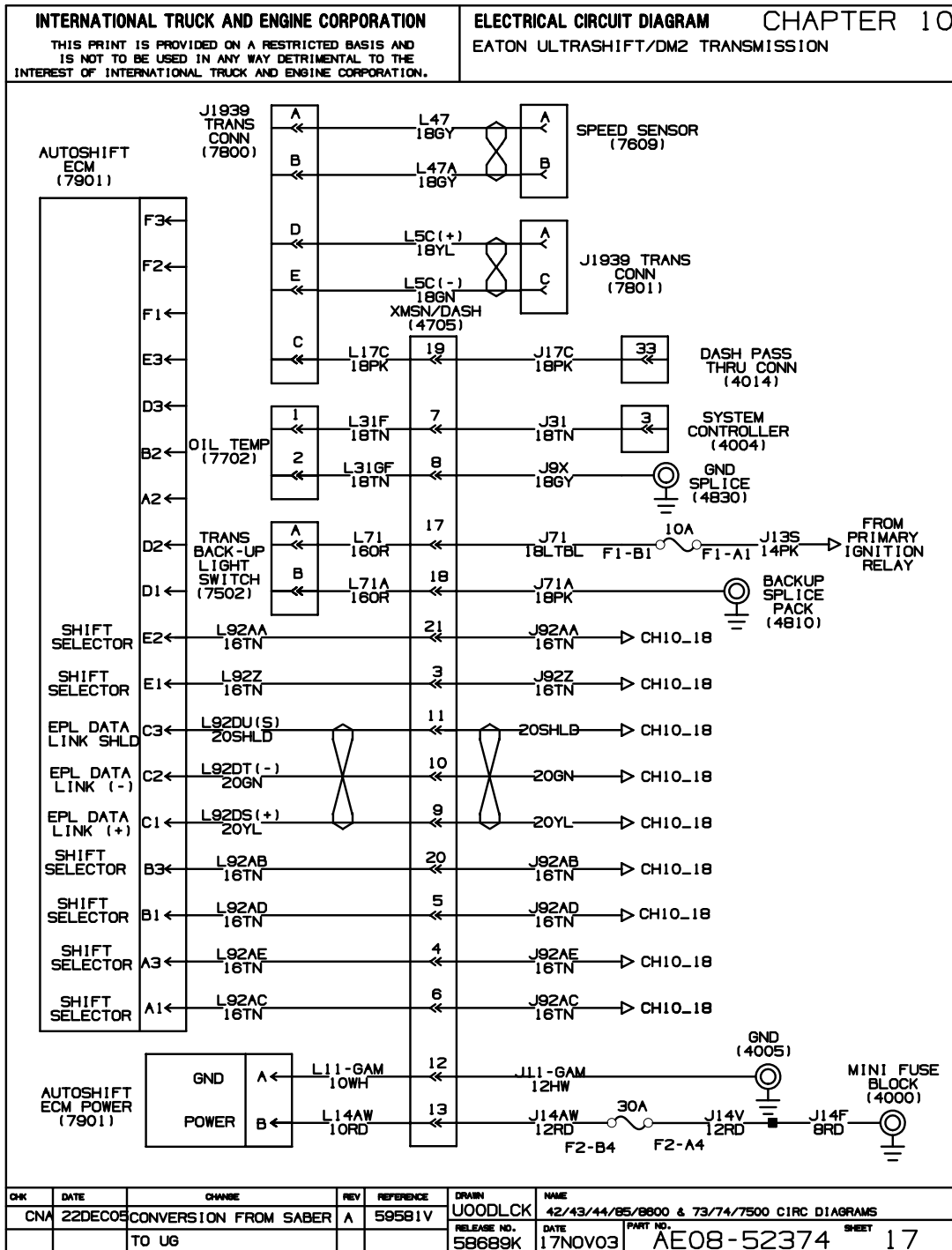


Figure 178 Eaton Ultrashift/DM2

10.22. EATON ULTRASHIFT/DM2 (CONT.), P. 18

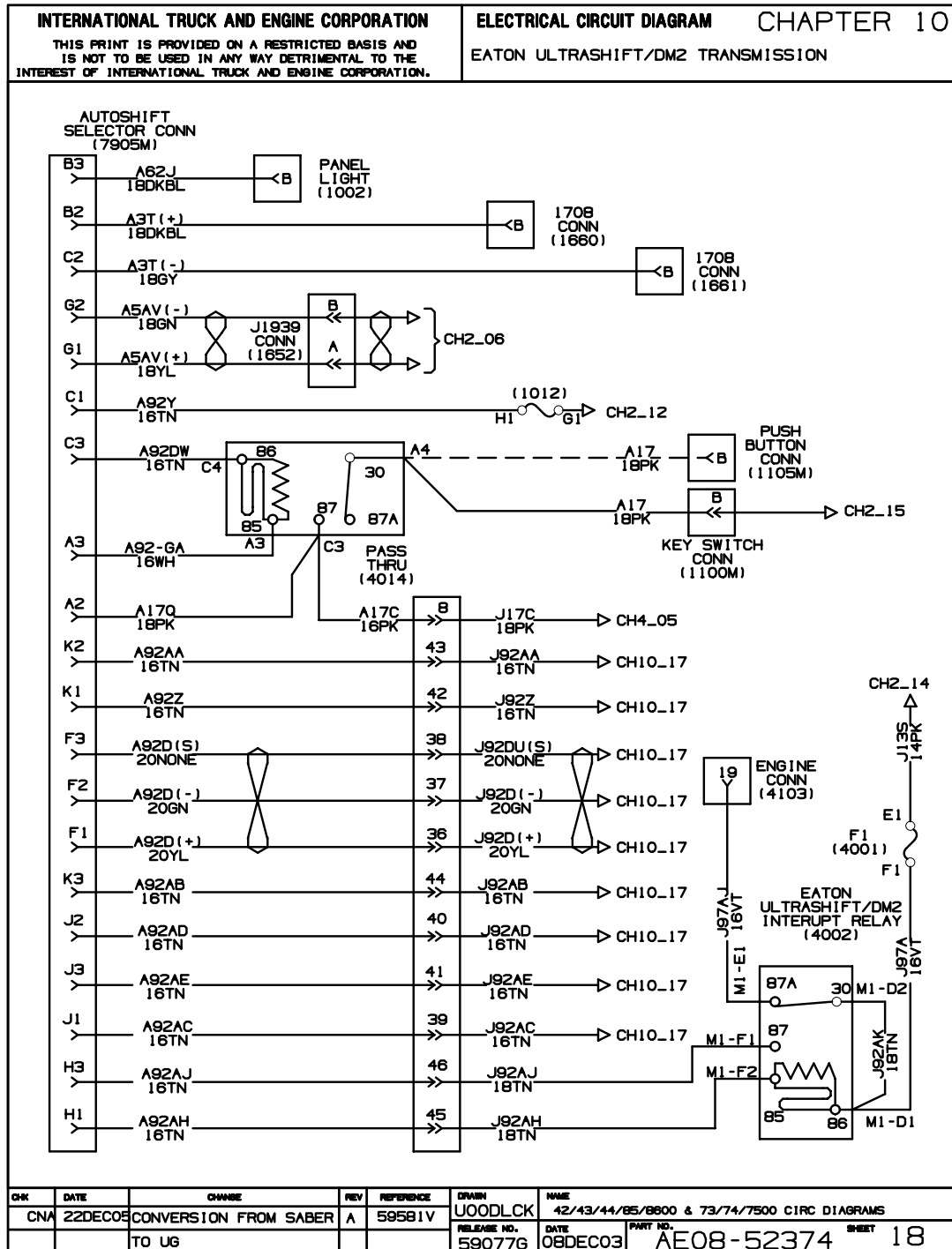


Figure 179 Eaton Ultrashift/DM2 (Cont.)

10.23. WTEC MD TRANSMISSION WITH AUTO NEUTRAL, P. 19

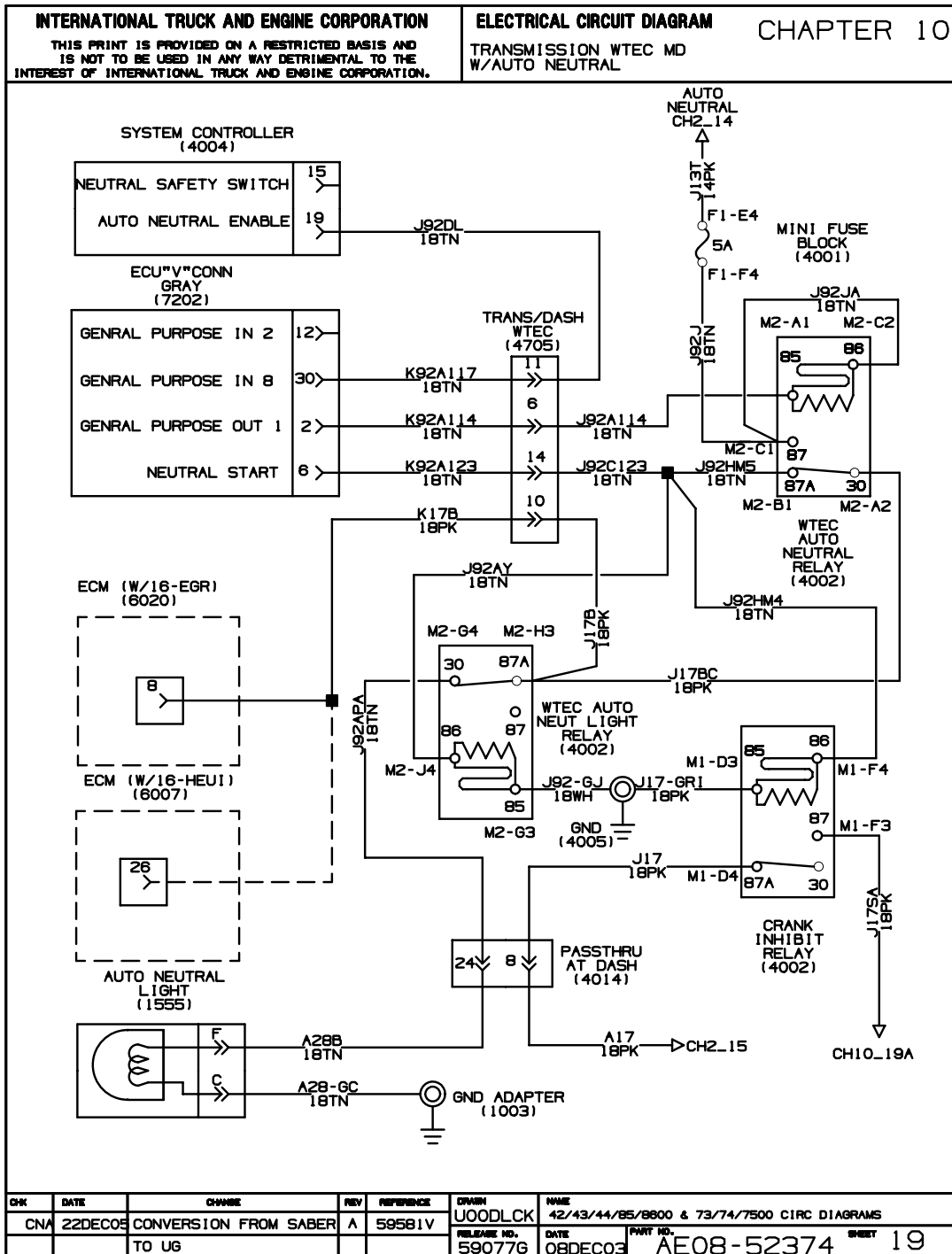


Figure 180 WTEC MD Transmission with Auto Neutral

10.24. WTEC MD TRANSMISSION WITH AUTO NEUTRAL AND WITH 0013WUA, P. 19A

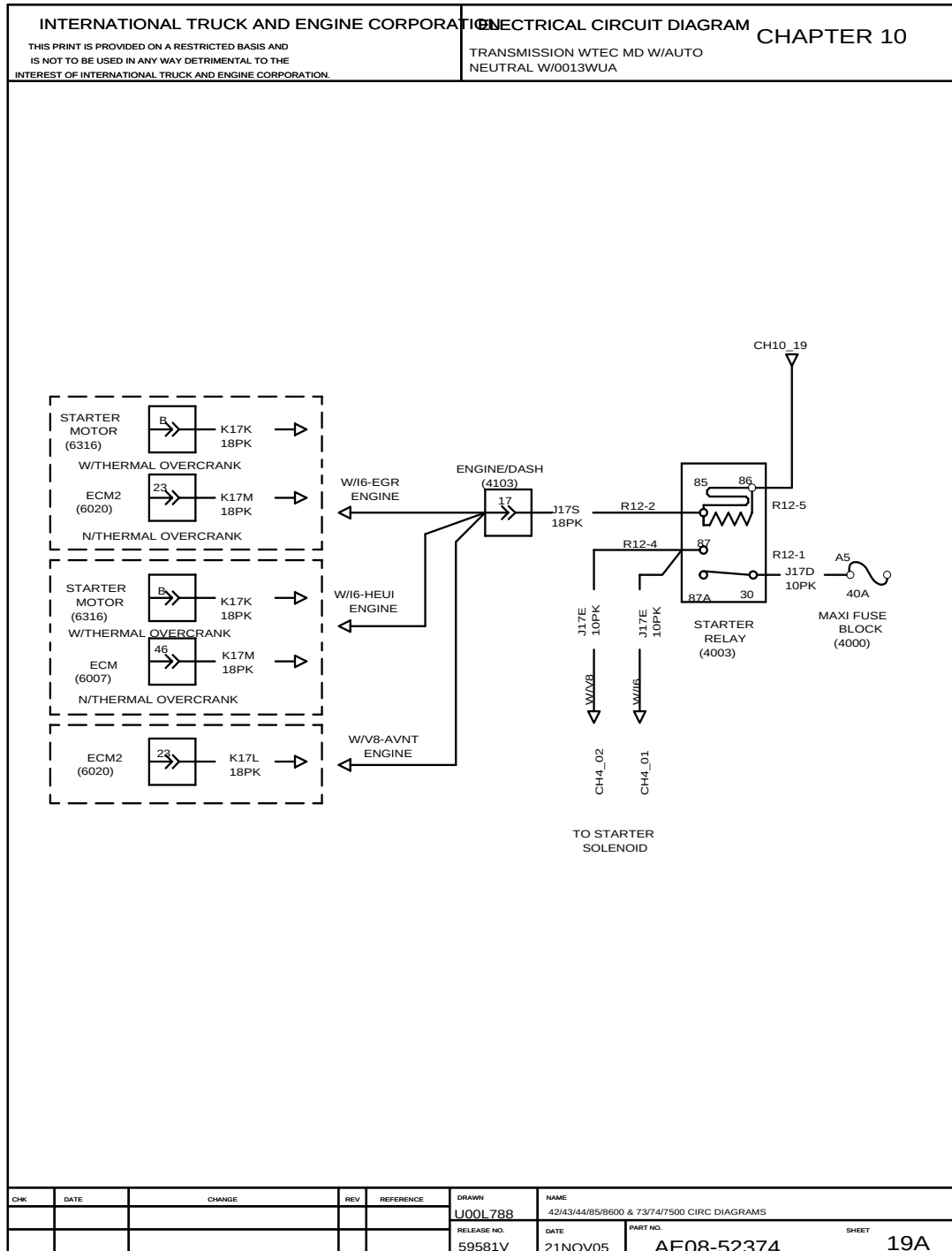


Figure 181 WTEC MD Transmission with Auto Neutral and with 0013WUA

10.25. EATON AUTOSHIFT/ULTRASHIFT TRANSMISSION (GEN 3), P. 20

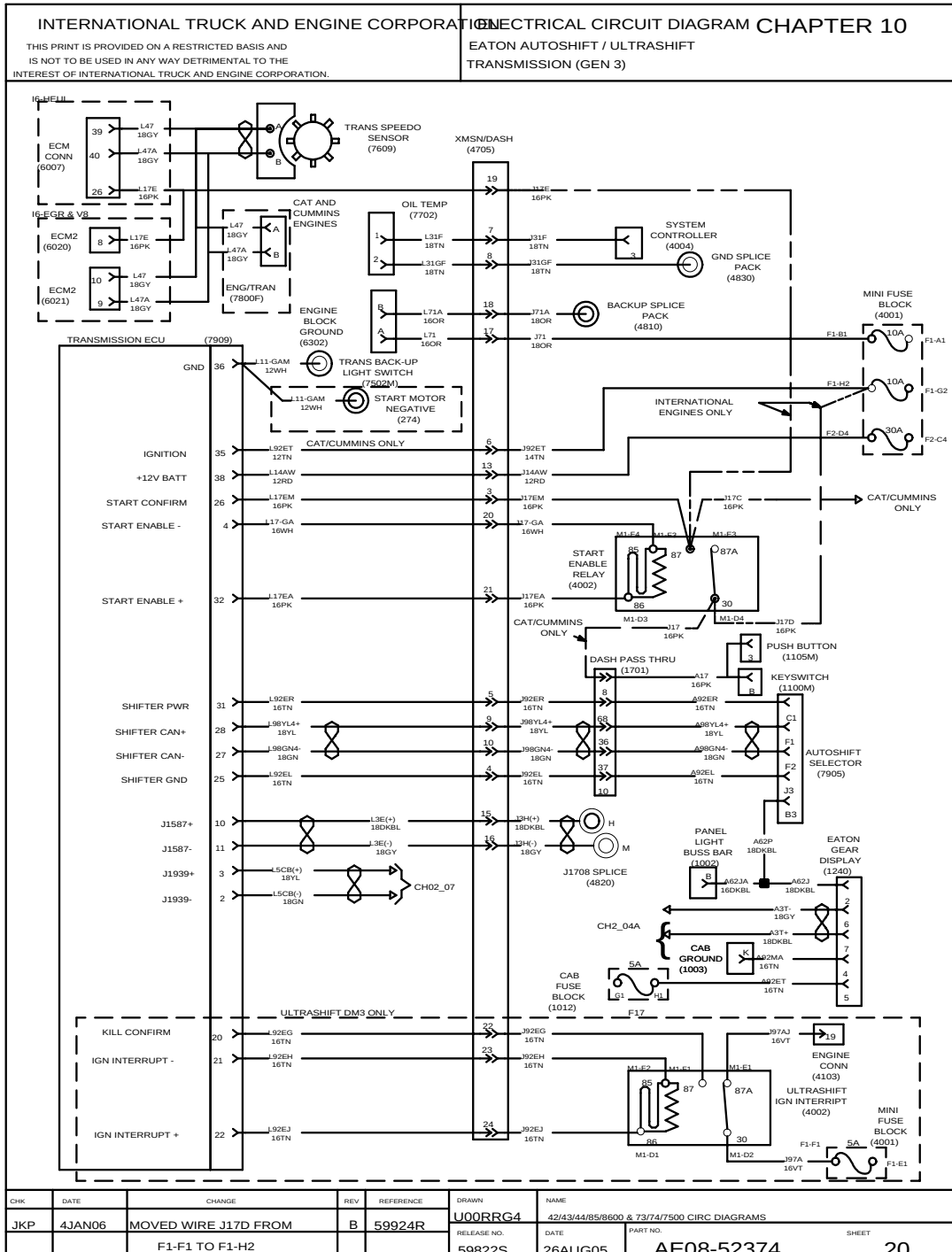


Figure 182 Eaton Autoshift/Ultrashift Transmission (Gen 3)

10.26. EATON HYBRID TRANSMISSION, P. 21

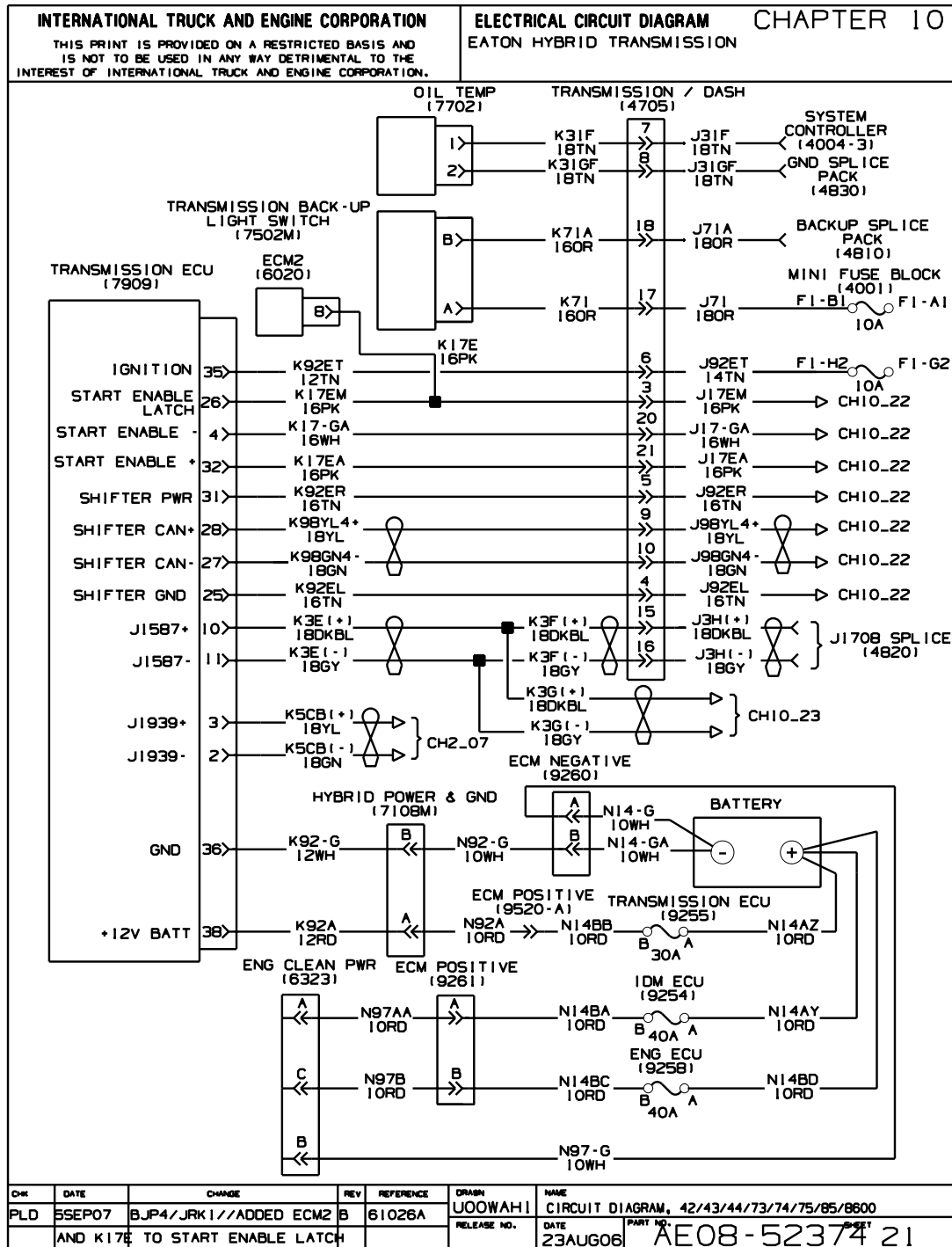


Figure 183 Eaton Hybrid Transmission

10.27. EATON HYBRID TRANSMISSION, P. 22

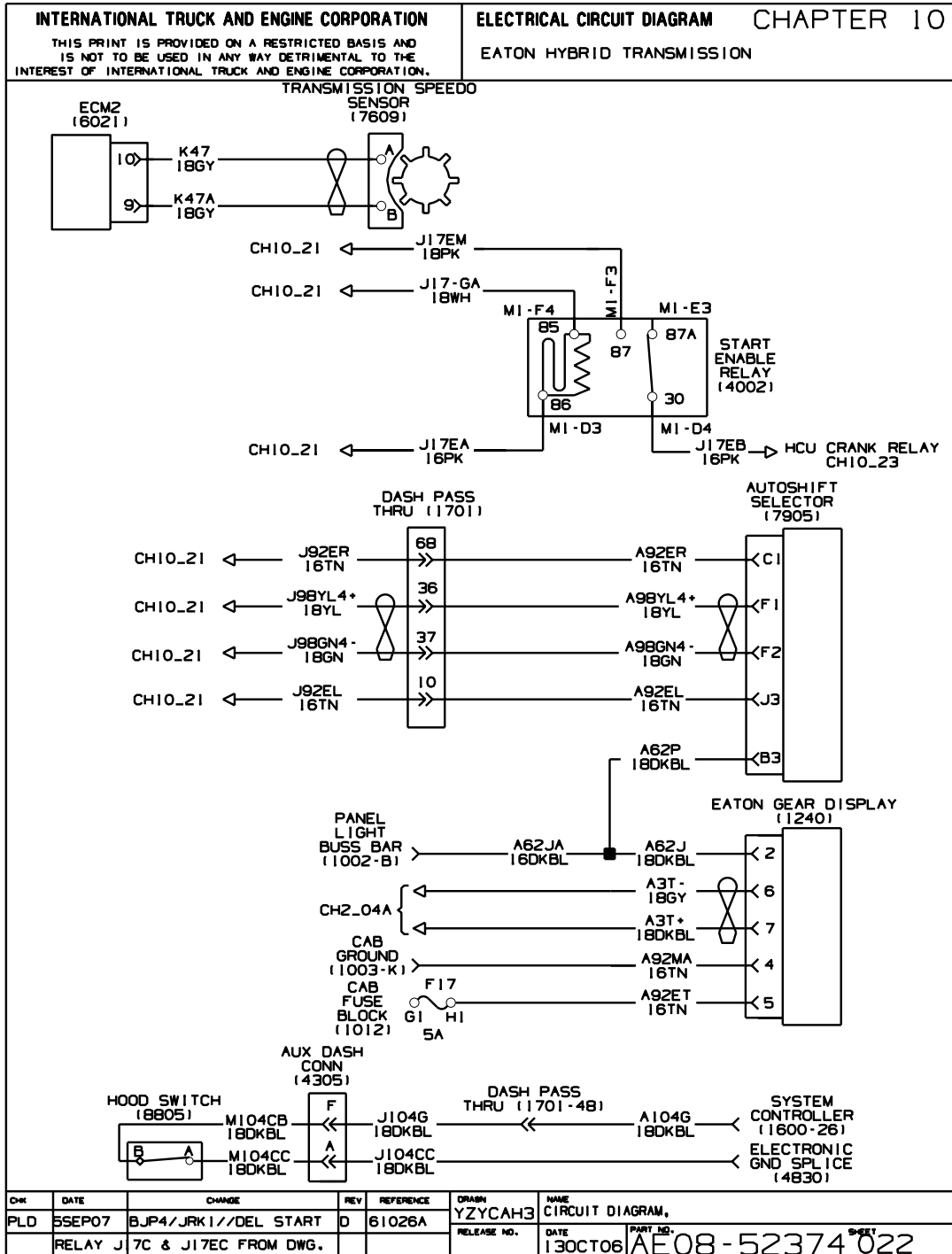


Figure 184 Eaton Hybrid Transmission

10.28. EATON HYBRID TRANSMISSION, P. 23

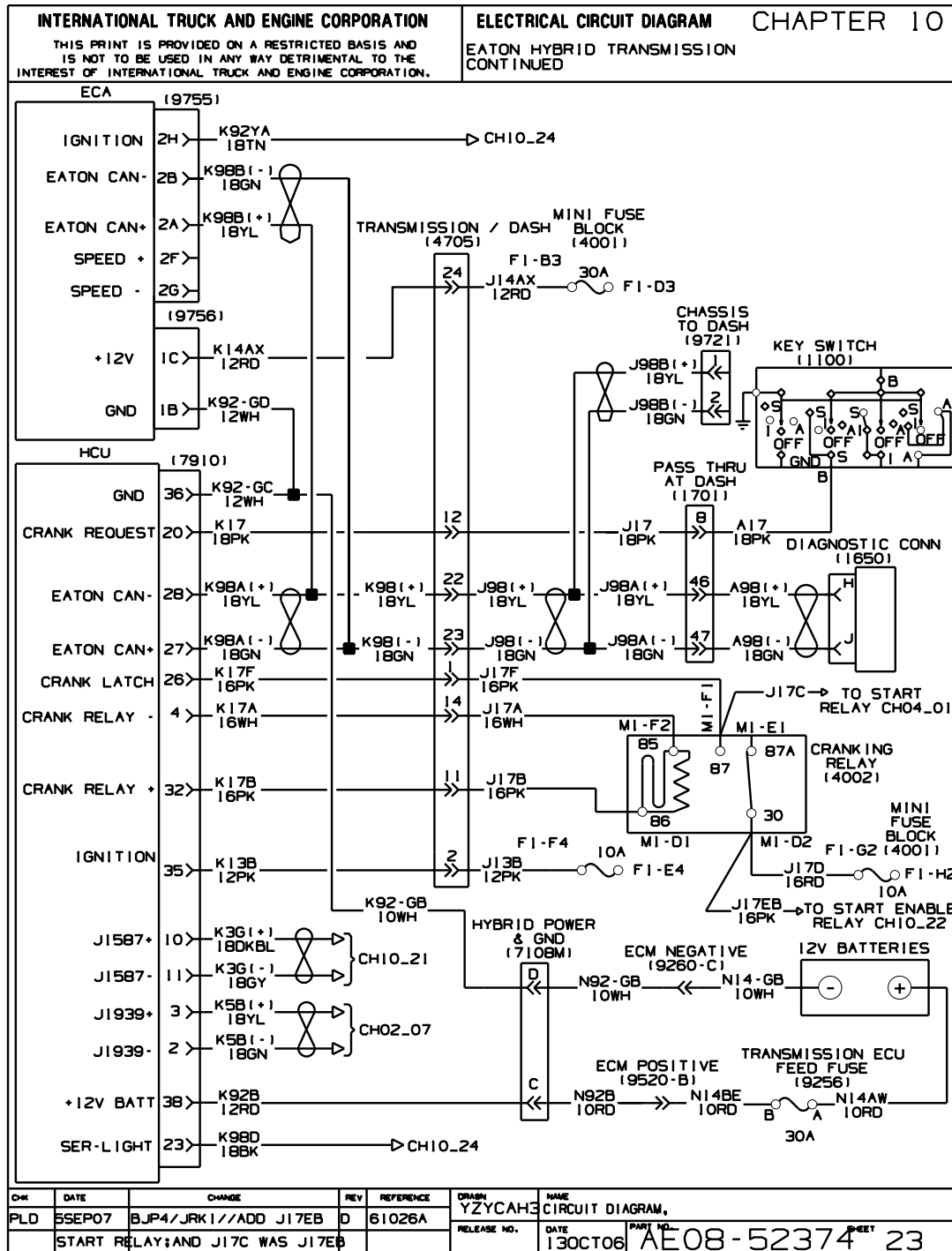


Figure 185 Eaton Hybrid Transmission

10.29. EATON HYBRID TRANSMISSION, P. 24

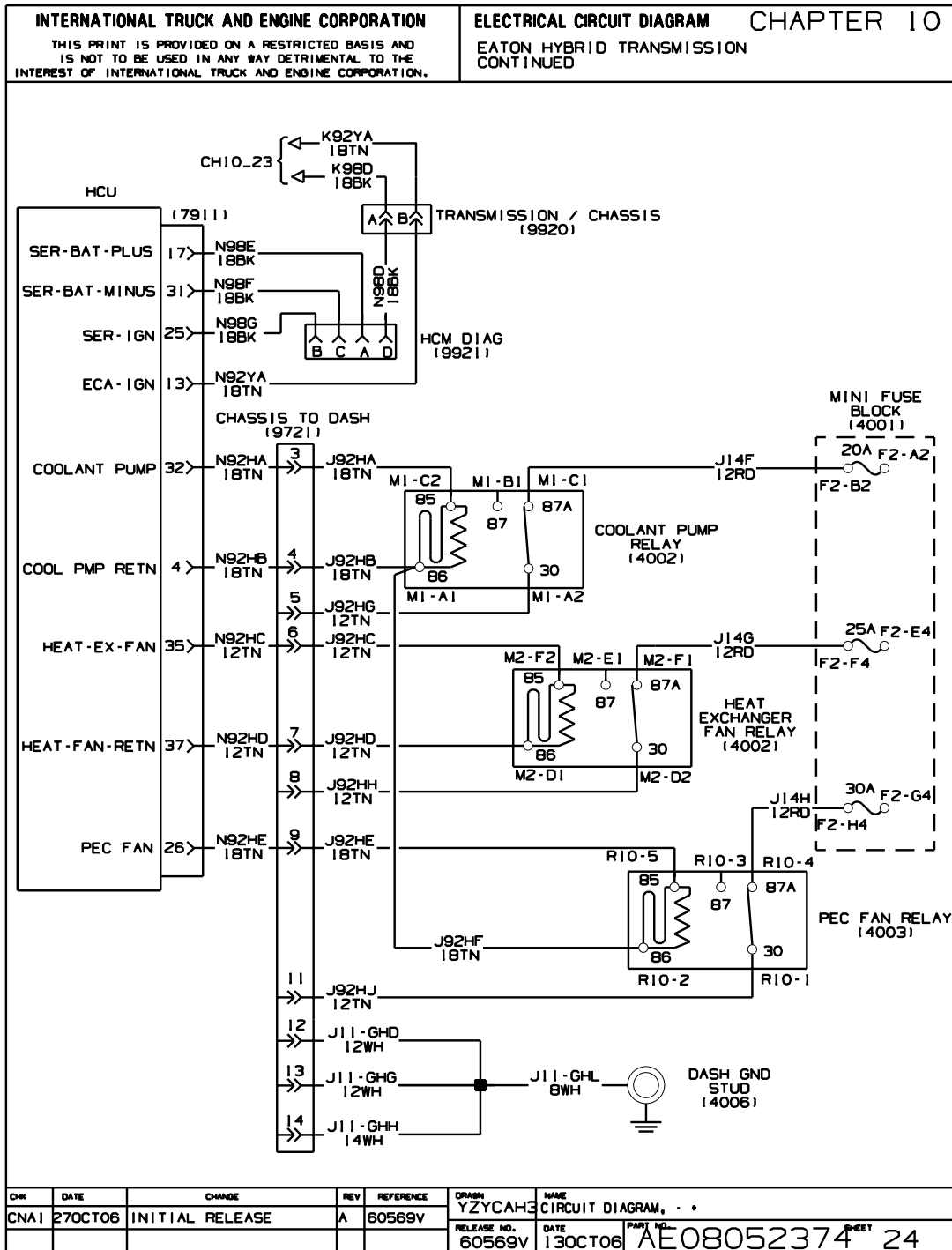


Figure 186 Eaton Hybrid Transmission

10.30. EATON HYBRID TRANSMISSION, P. 25

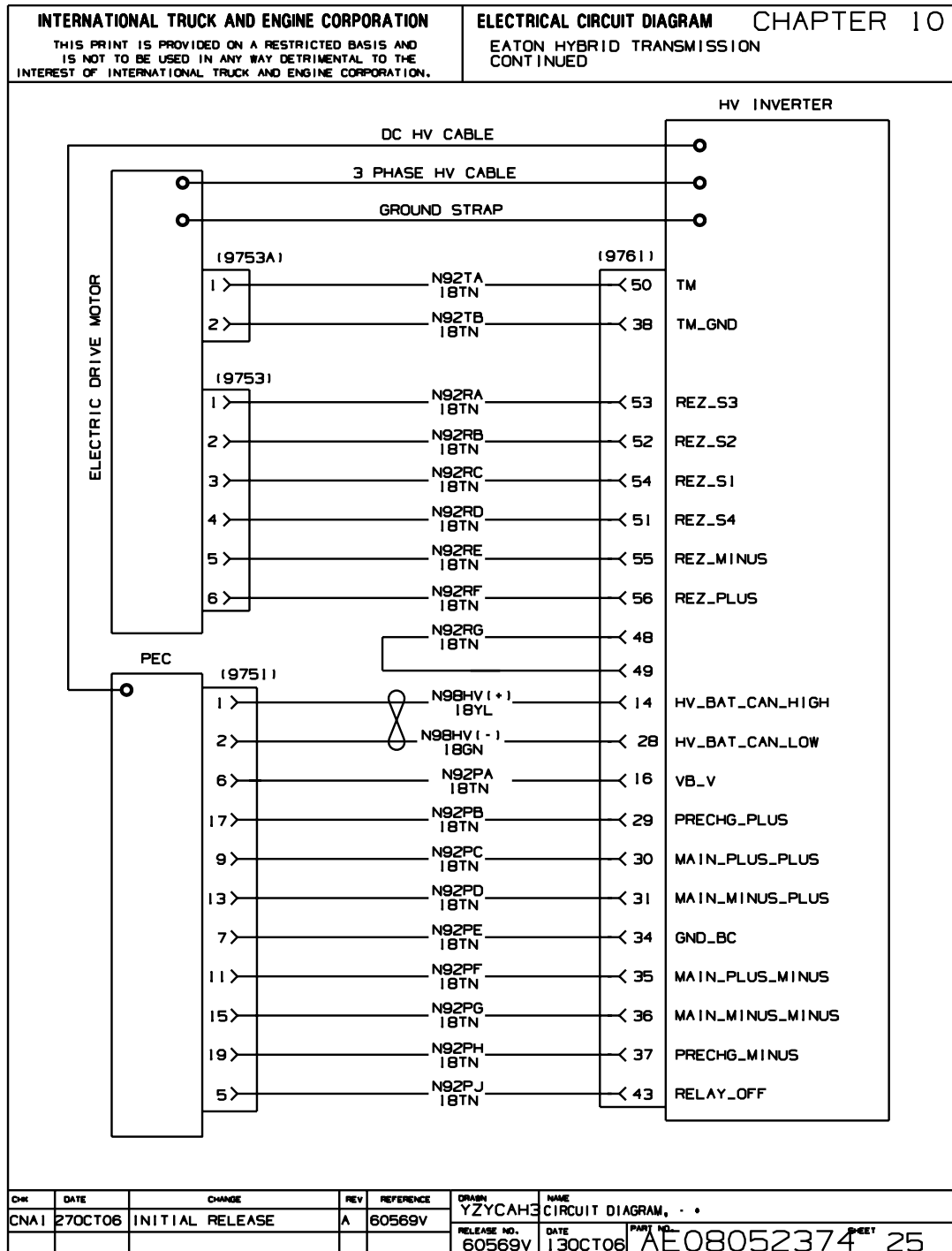


Figure 187 Eaton Hybrid Transmission

10.31. EATON HYBRID TRANSMISSION, P. 26

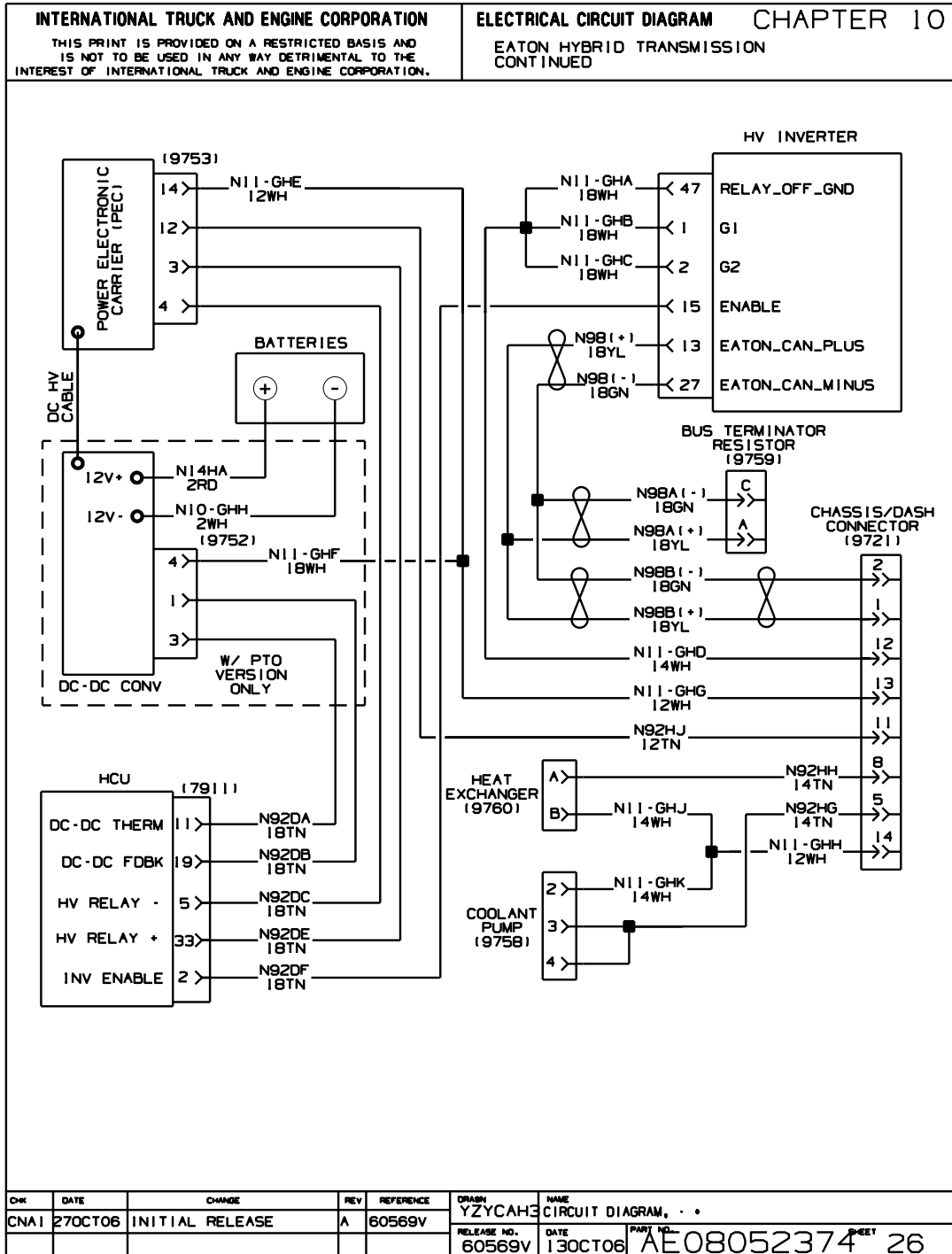


Figure 188 Eaton Hybrid Transmission

10.32. TRANSFER CASE — WITH MXT, P. 27

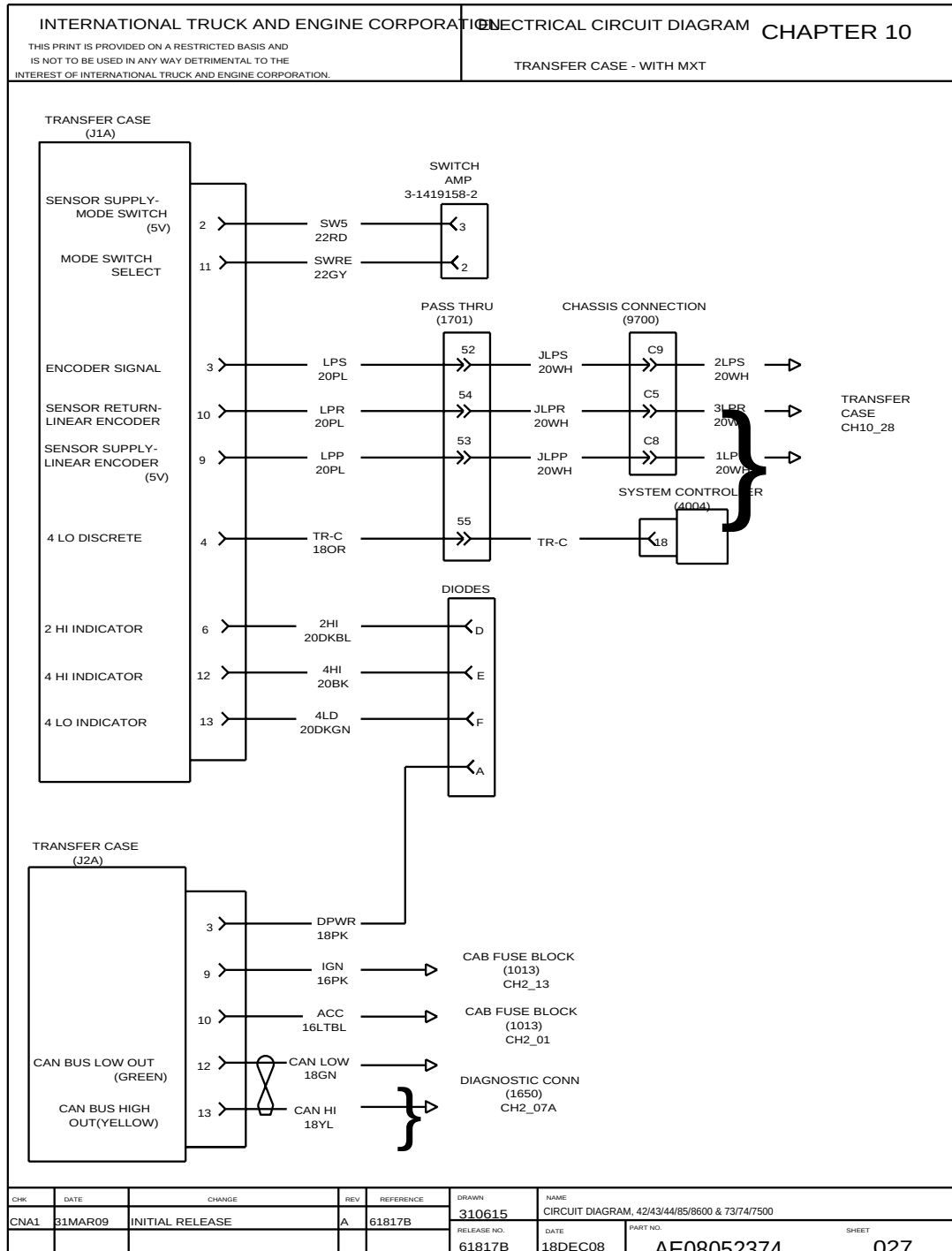


Figure 189 Transfer Case — with MXT

10.33. TRANSFER CASE — WITH MXT, P. 28

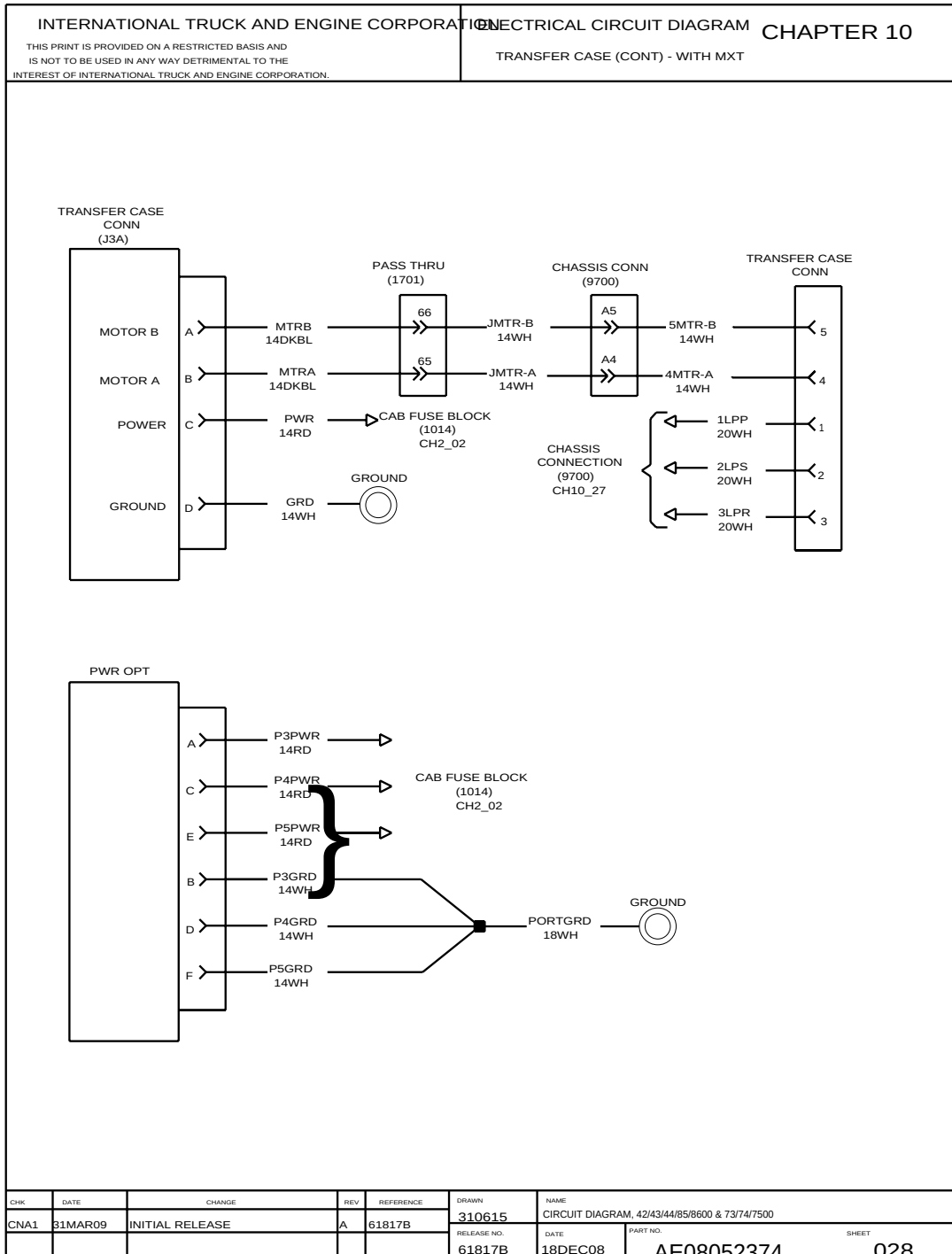


Figure 190 Transfer Case — with MXT

11. AIR CONDITIONING (CHAPTER 11)

11.1. HVAC SYSTEMS, P. 1

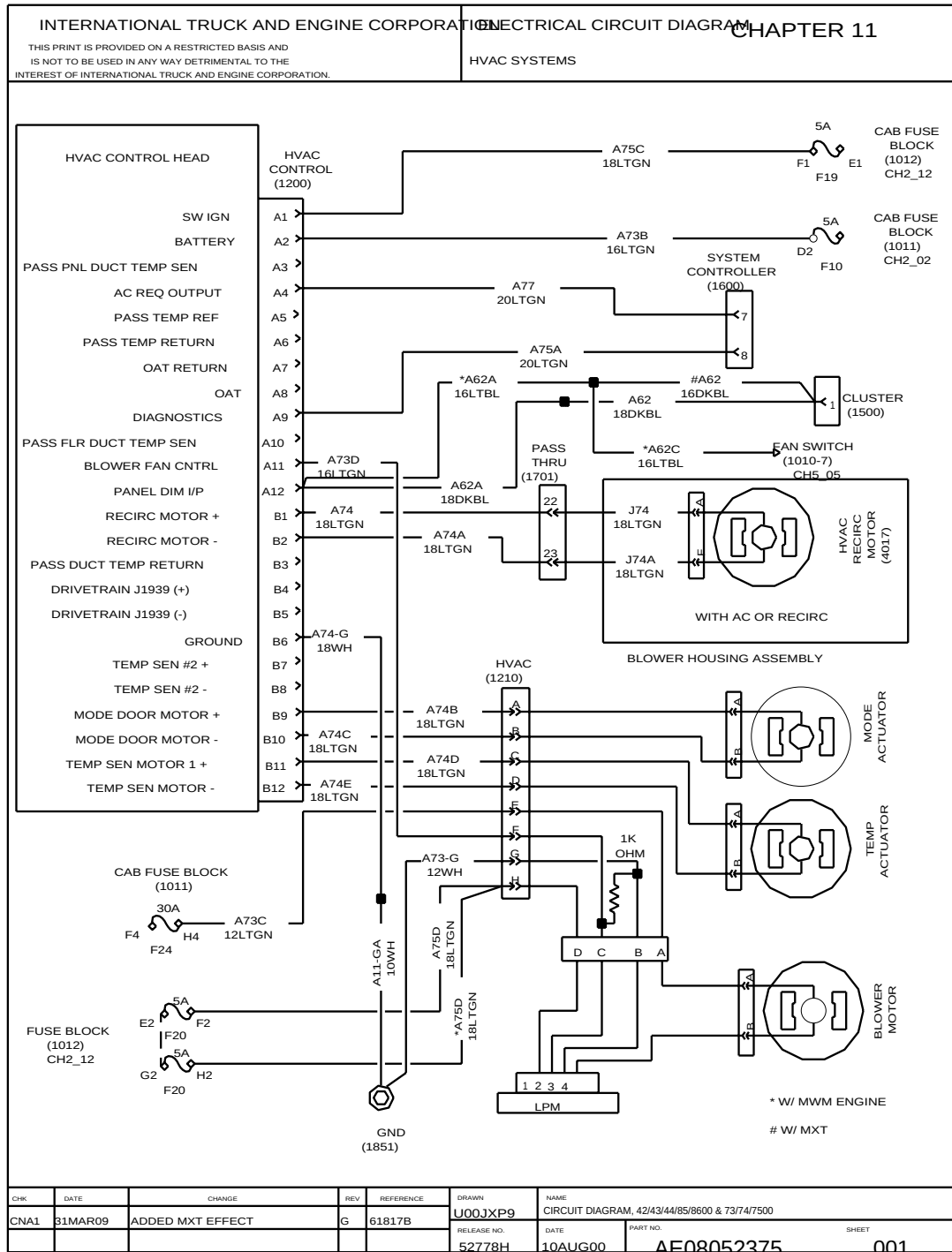


Figure 191 HVAC Systems

11.2. AIR CONDITIONING, P. 2

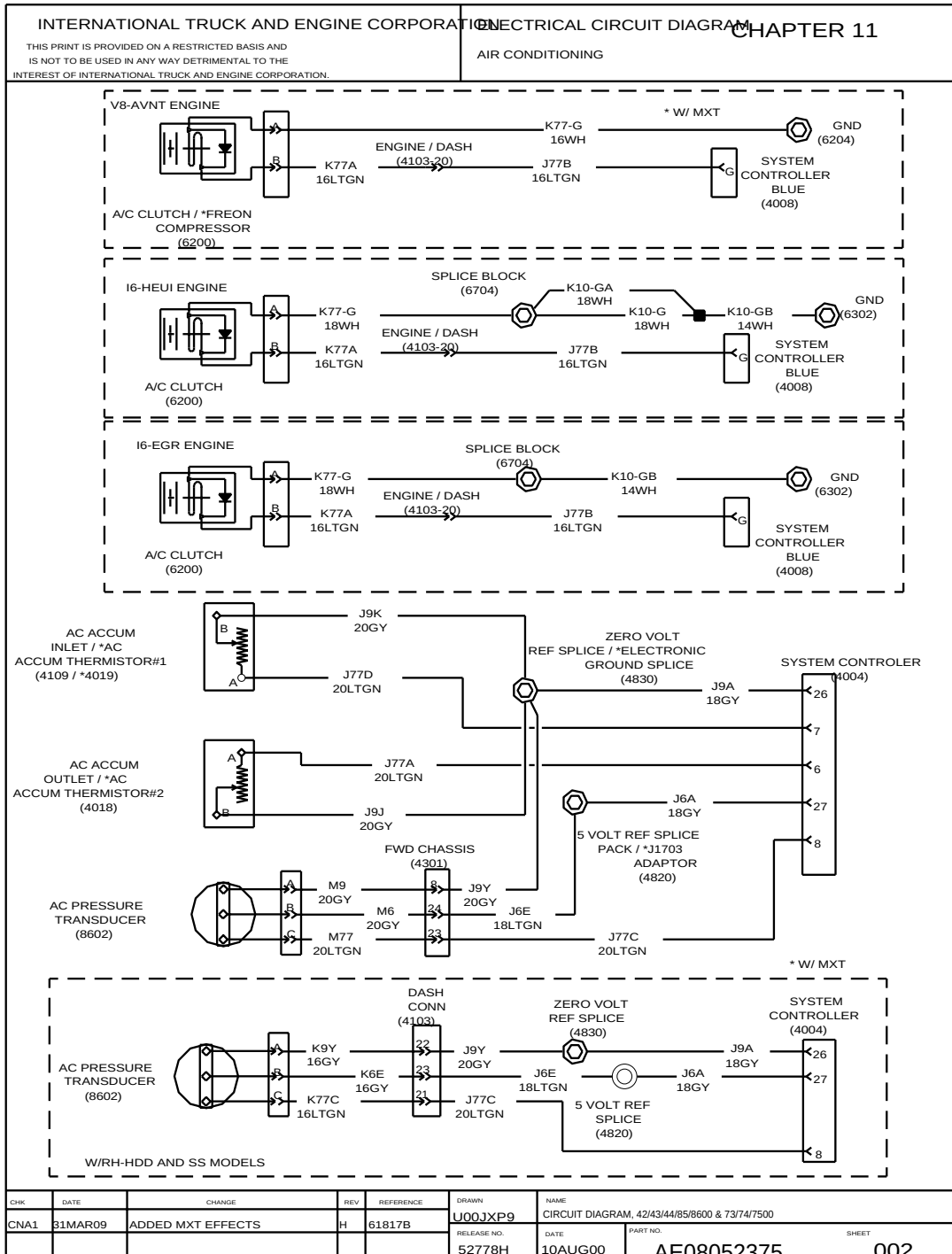


Figure 192 Air Conditioning

11.3. AUTOTHERM SYSTEMS, P. 3

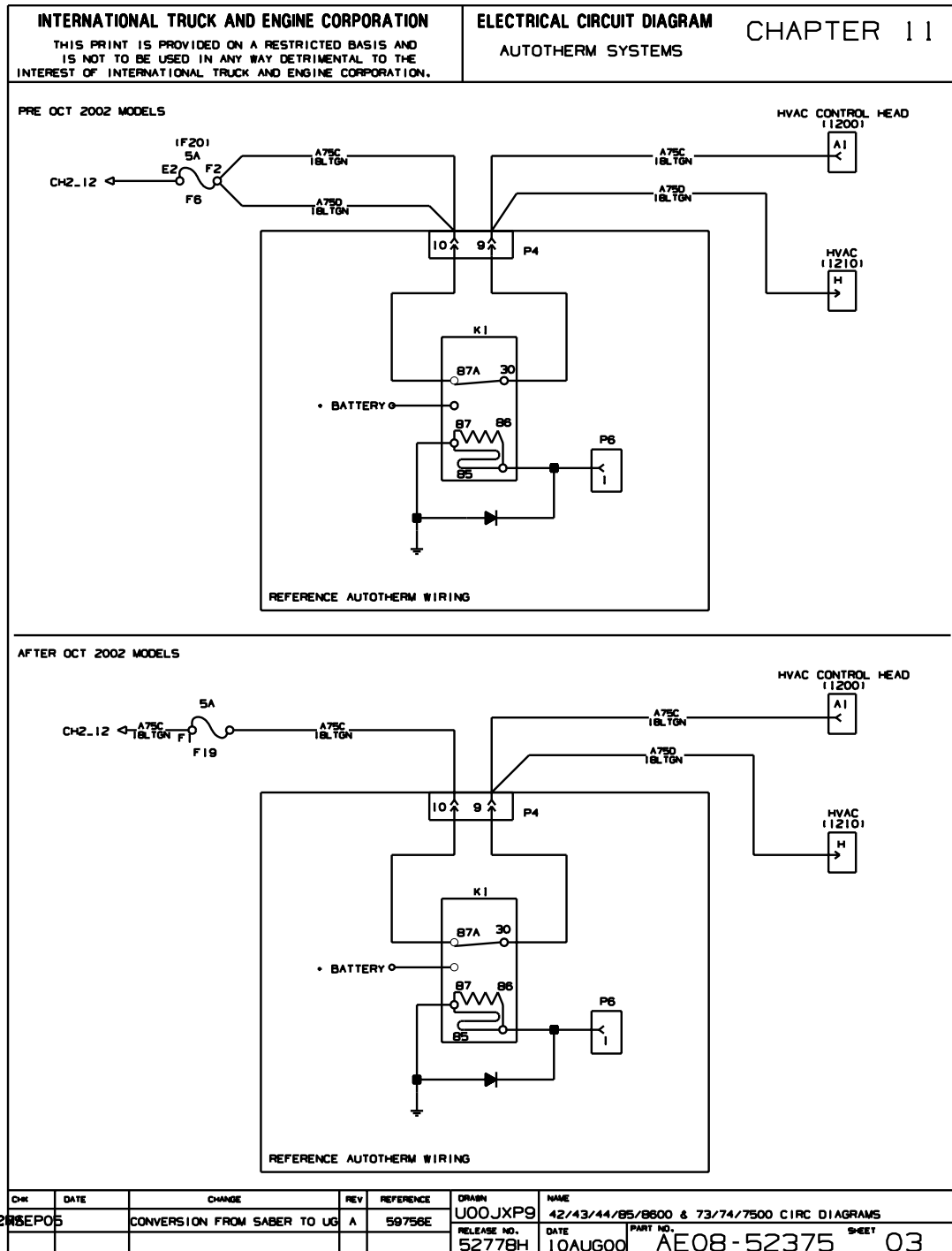


Figure 193 Autotherm Systems