

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

7.1. IP/GAUGE LIST, P. 1

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 IP/GAUGES																																																				
INSTRUMENT PANEL GAUGES																																																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">GAUGE</th> <th style="width: 10%;">WARN LIGHT</th> <th style="width: 45%;">SIGNAL PATH</th> <th style="width: 20%;">SENSOR LOCATION</th> </tr> </thead> <tbody> <tr> <td>RPM (TACH)</td> <td>NO</td> <td>ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER</td> <td>ENGINE</td> </tr> <tr> <td>MPH/KPH (SPD)</td> <td>NO</td> <td>ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER</td> <td>TRANSMISSION</td> </tr> <tr> <td>FUEL</td> <td>YES</td> <td>SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER</td> <td>FUEL TANK</td> </tr> <tr> <td>VOLT</td> <td>YES</td> <td>SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER</td> <td>-</td> </tr> <tr> <td>AIR 1 (PRES)</td> <td>YES</td> <td>SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER</td> <td>INSIDE CAB-DASH PNL</td> </tr> <tr> <td>AIR 2 (PRES)</td> <td>YES</td> <td>SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER</td> <td>STEERING COL AREA</td> </tr> <tr> <td>WATER (TEMP)</td> <td>YES</td> <td>ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER</td> <td>ENGINE</td> </tr> <tr> <td>ENG OIL (TEMP)</td> <td>YES</td> <td>ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER</td> <td>ENGINE</td> </tr> <tr> <td>OIL (PRES)</td> <td>YES</td> <td>ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER</td> <td>ENGINE</td> </tr> <tr> <td>TRANS (TEMP)</td> <td>YES</td> <td>SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER</td> <td>TRANSMISSION</td> </tr> <tr> <td>AIR APPLICATION</td> <td>NO</td> <td>SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER</td> <td>FWD CHASSIS</td> </tr> <tr> <td>REAR AXLE TEMP</td> <td>YES</td> <td>SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER</td> <td>AXEL</td> </tr> </tbody> </table>		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
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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																																																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">CHK</th> <th style="width: 10%;">DATE</th> <th style="width: 20%;">CHANGE</th> <th style="width: 10%;">REV</th> <th style="width: 10%;">REFERENCE</th> <th style="width: 10%;">DASH</th> <th style="width: 40%;">NAME</th> </tr> <tr> <td>2</td> <td>05SEP05</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.</td> <td>DATE</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>52778H</td> <td>09AUG00</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>PART NO.</td> <td>SHEET</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>AE08-52371</td> <td>01</td> </tr> </table>		CHK	DATE	CHANGE	REV	REFERENCE	DASH	NAME	2	05SEP05	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.	SHEET						AE08-52371	01										
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					PART NO.	SHEET																																															
					AE08-52371	01																																															

Figure 89 IP/Gauge List

7.2. WARNING LIGHT LIST, P. 2

INTERNATIONAL TRUCK AND ENGINE CORPORATION				ELECTRICAL CIRCUIT DIAGRAM			CHAPTER 7	
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.				WARNING LIGHTS LIST				
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 (Ⓢ)		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 (Ⓟ)		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	LDDJXP9	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS		
					RELEASE NO.	DATE	PART NO.	
					P52778H	09AUG00	AE09-52371	
							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							
CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	
2	05EPO5	CONVERSION FROM SABER TO UG	B	59756E	U00JXP9	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS	
					RELEASE NO.	DATE	
					52778H	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				ELECTRICAL CIRCUIT DIAGRAM CHAPTER 7			
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.				ENG OIL PRESS & TEMP, SPEEDOMETER, TACH, VOLTMETER & WATER TEMP GAUGE CIRCUITS			
<p>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:</p> <p>ENGINE OIL PRESSURE GAUGE</p> <p>ENGINE OIL TEMPERATURE GAUGE</p> <p>SPEEDOMETER GAUGE</p> <p>TACHOMETER GAUGE</p> <p>WATER TEMPERATURE GAUGE</p>							
CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	
PEC	16JAN01	PRODUCTION RELEASE.	A	P54304U	U00JXP9	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS	
					RELEASE NO.	DATE	PART NO. SHEET
					P52778H	20JUN00	AE08-52371 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

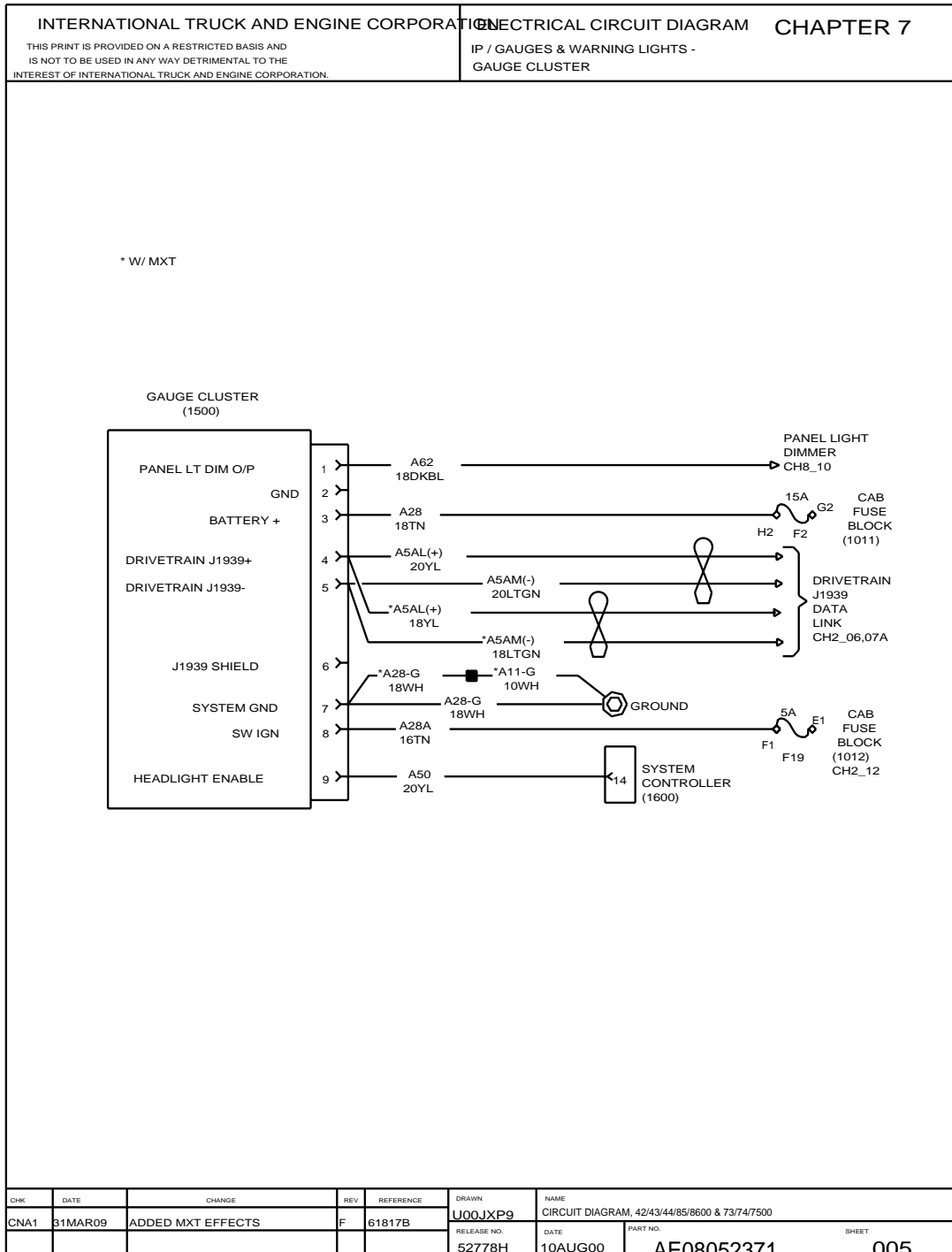


Figure 93 IP/Gauges and Warning Lights — Gauge Cluster

7.6. AIR PRESSURE INPUT CIRCUIT, P. 6

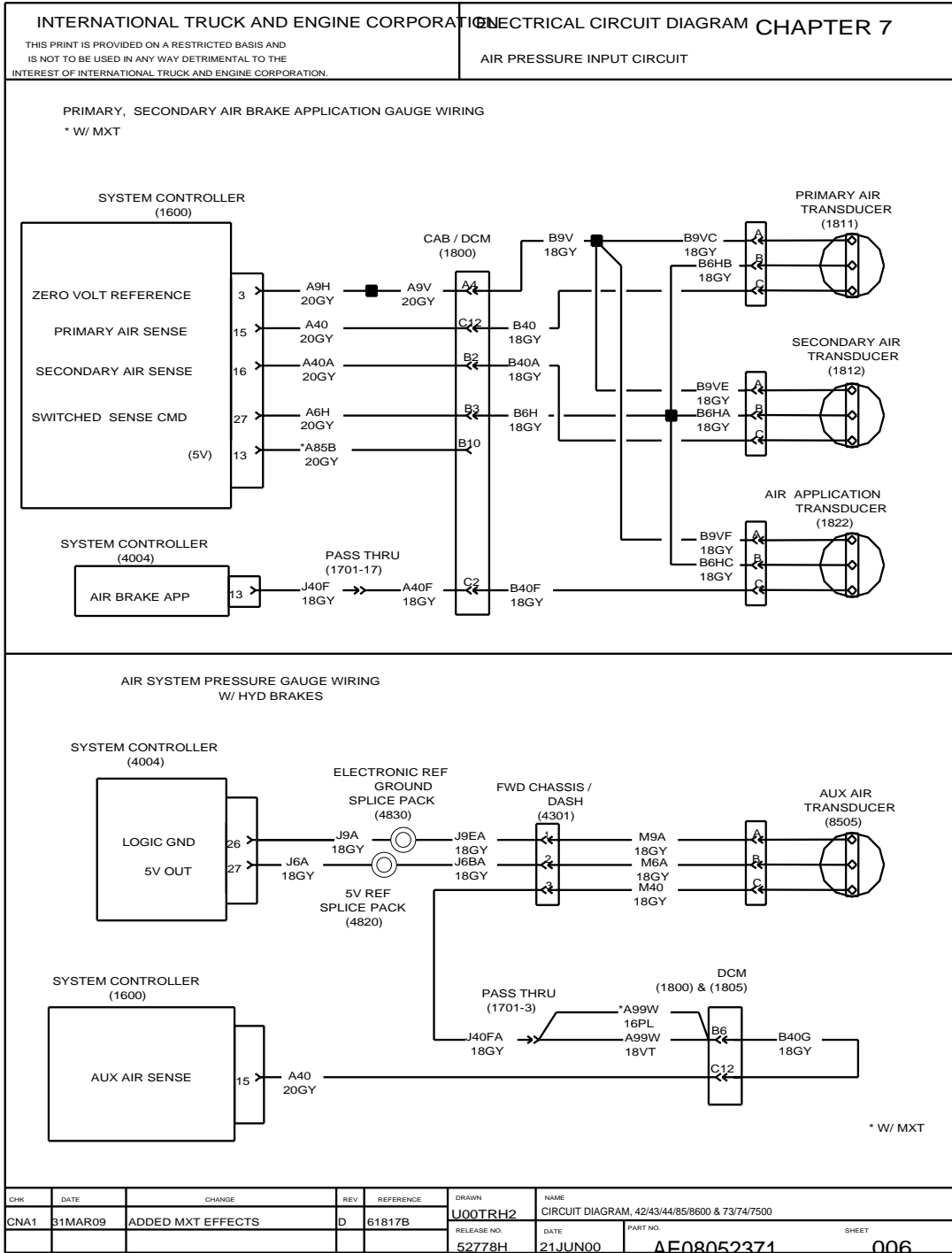


Figure 94 Air Pressure Input Circuit

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

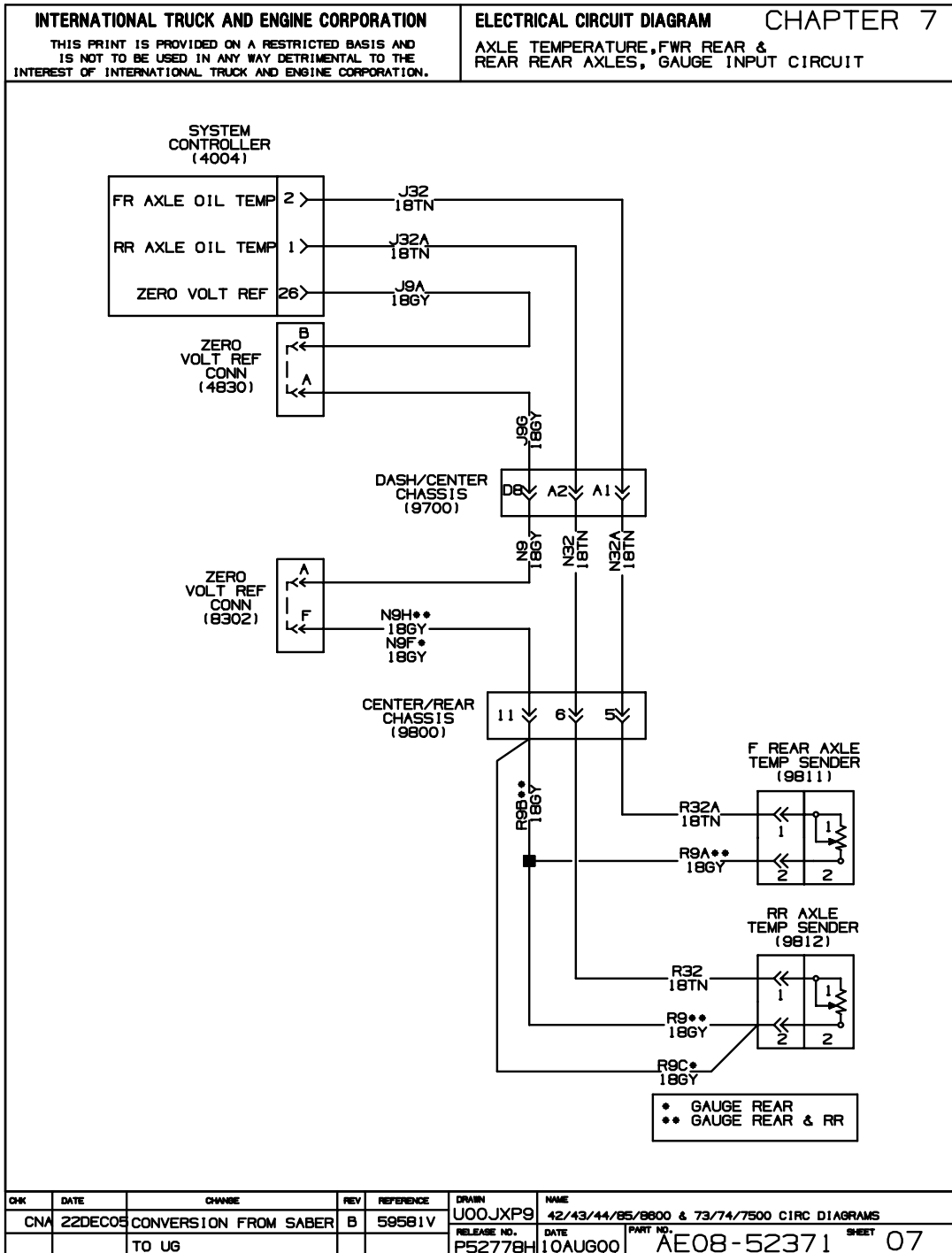


Figure 95 Axle Temperature, FWD Rear and Rear Axles, Gauge Input Circuit

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

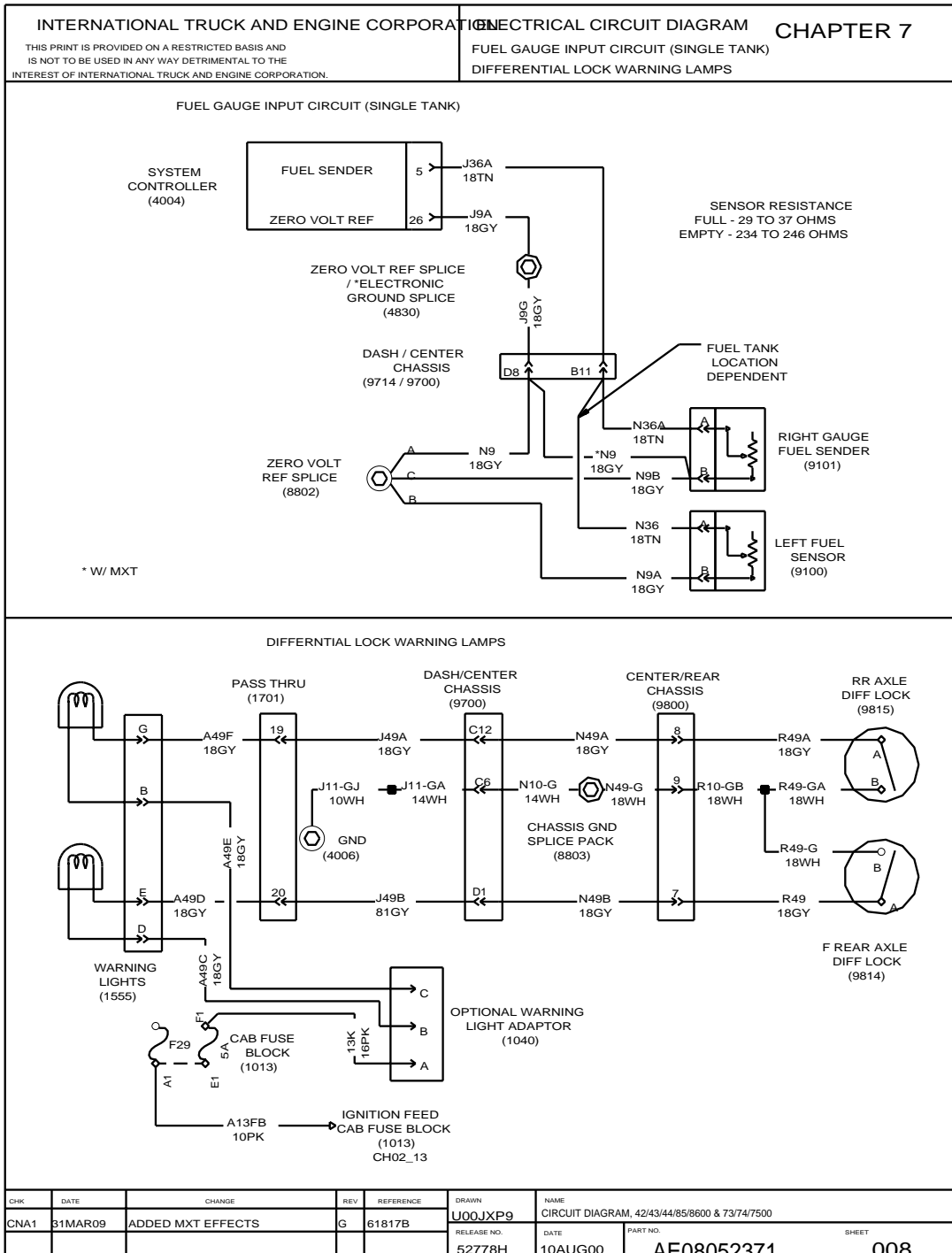


Figure 96 Fuel Gauge Input Circuit (Single Tank) Differential Lock Warning Lamps

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

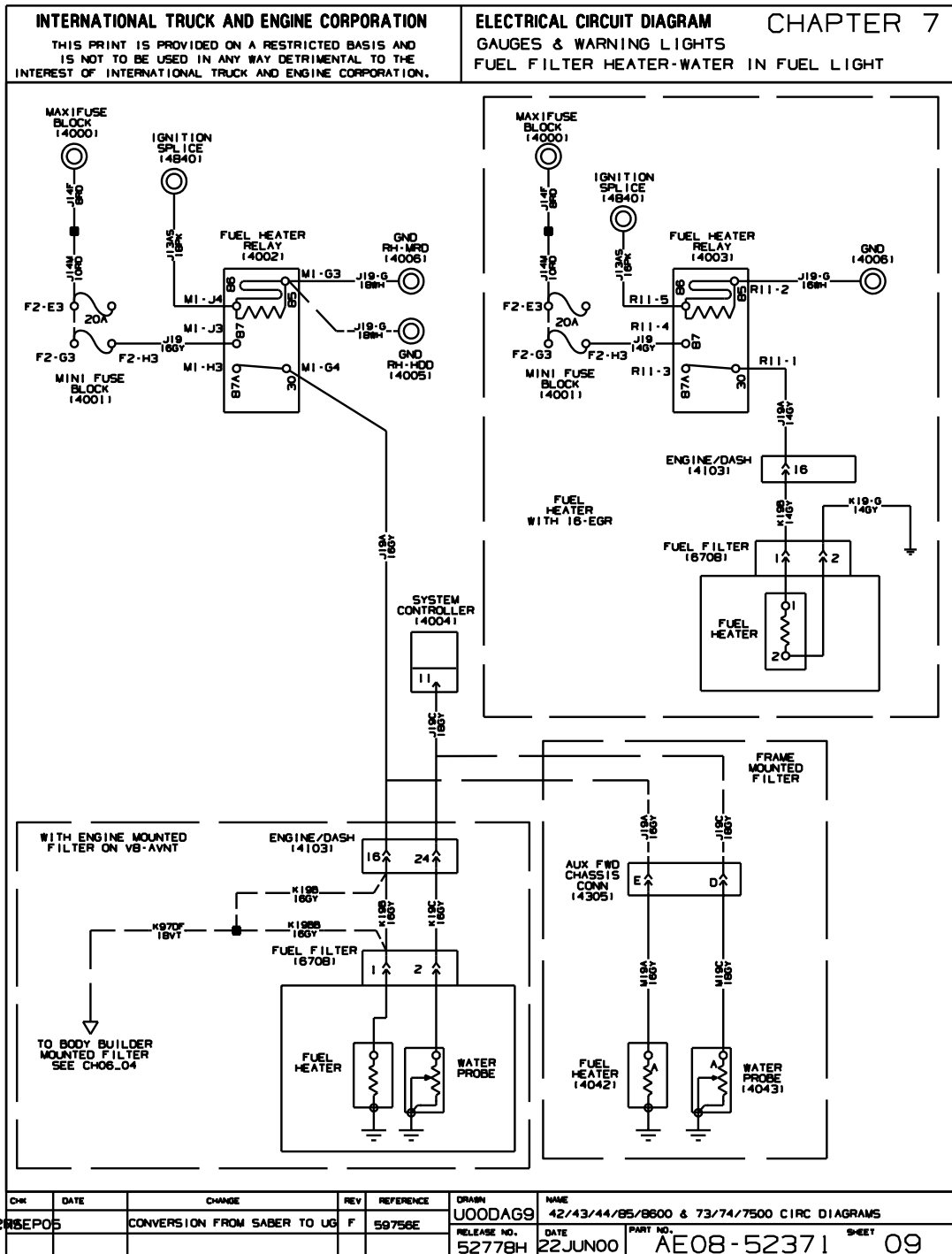


Figure 97 Gauges and Warning Lights — Fuel Filter Heater and Water in Fuel Lights

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

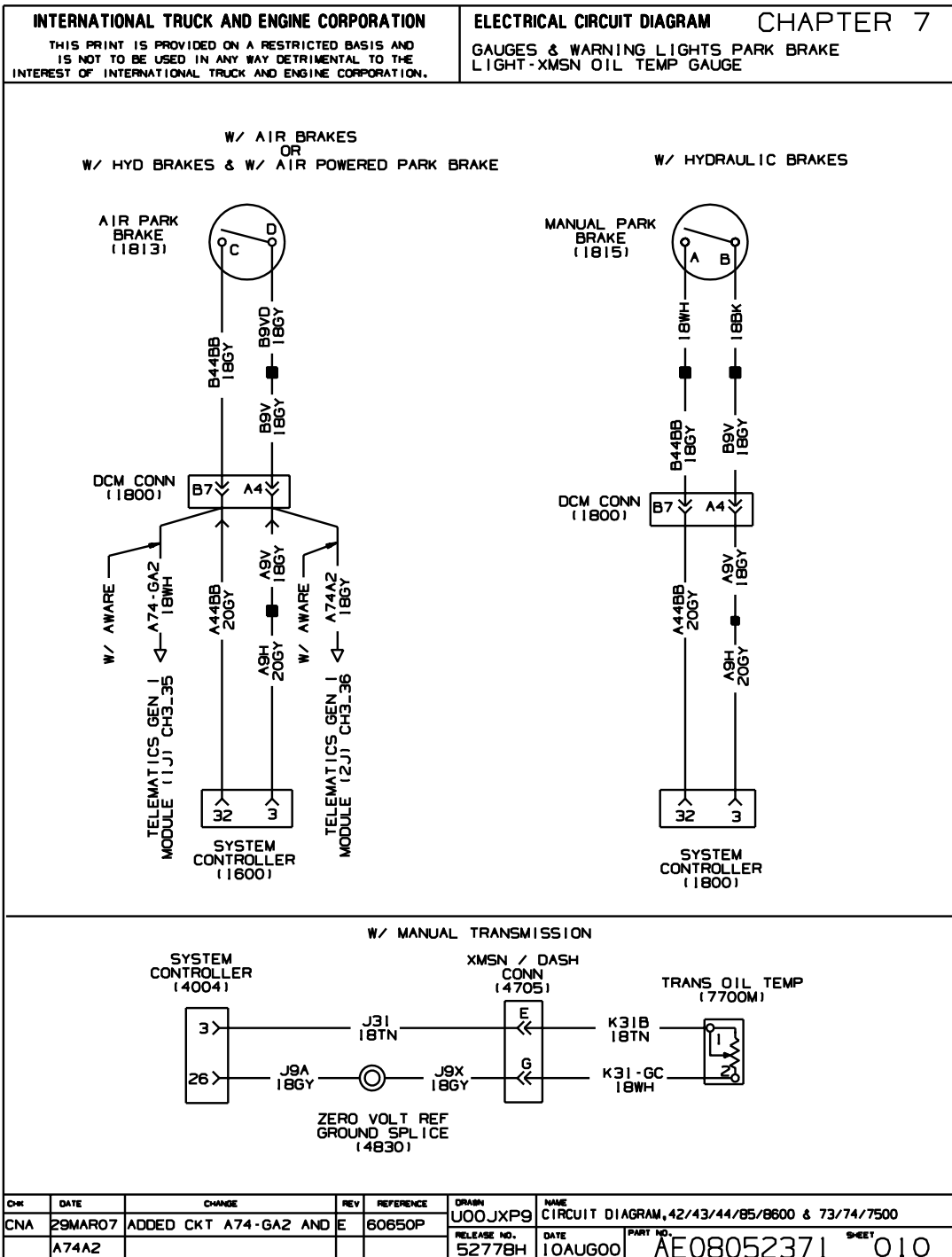


Figure 98 Gauges and Warning Lights — Park Brake Light and Transmission Oil Temp. Gauge

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

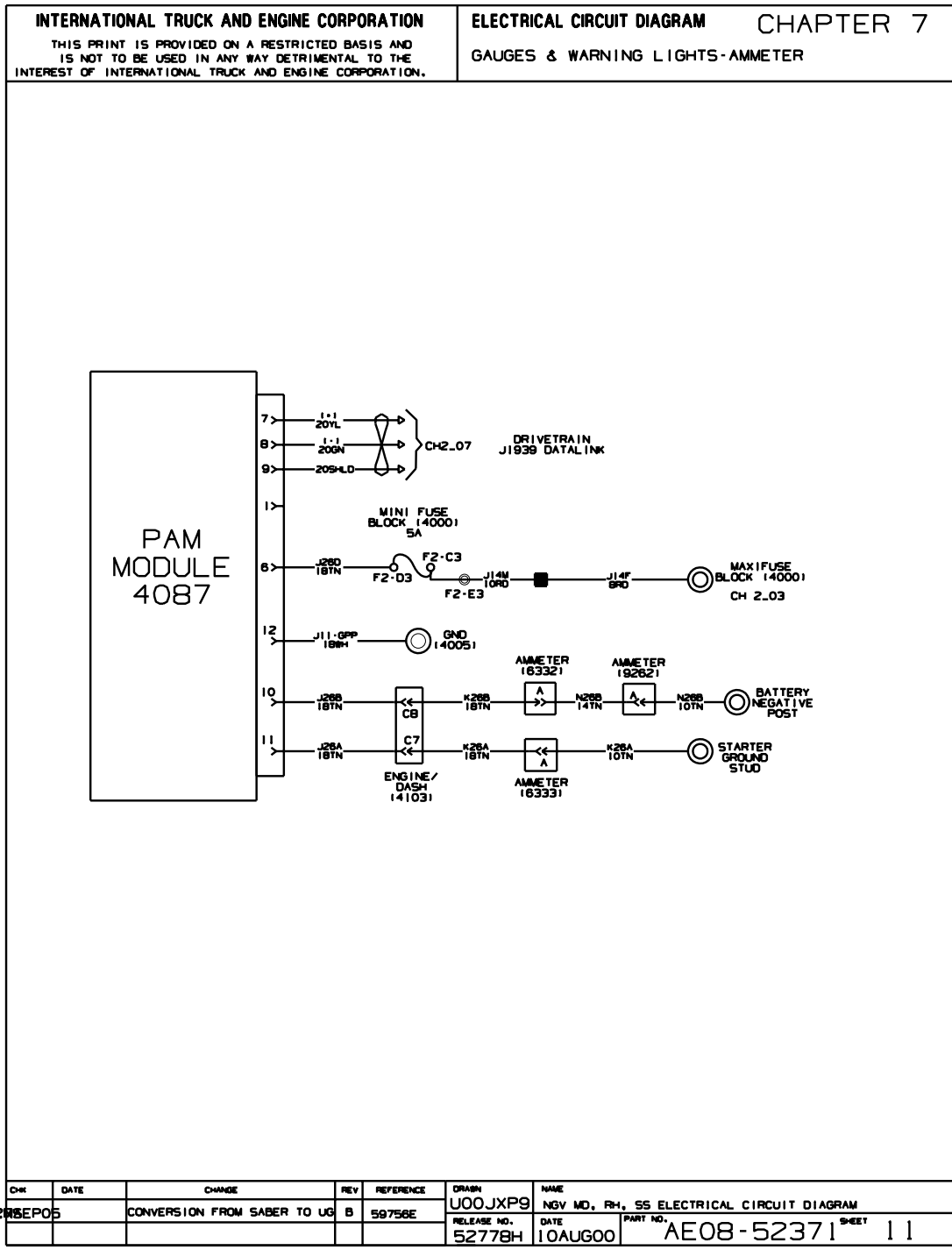
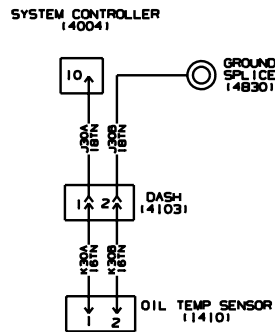


Figure 99 Gauges and Warning Lights — Ammeter

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

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CHR	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
2	09SEP05	CONVERSION FROM SABER TO UG	B	59756E	WOODLCK	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS
					RELEASE NO.	DATE
					52778H	07OCT02
					PART NO.	SHEET
					AE08-52371	12

Figure 100 Engine Oil Temperature Gauge With Caterpillar

7.13. FRONT AXLE ENGAGEMENT WARNING LAMP, P. 13

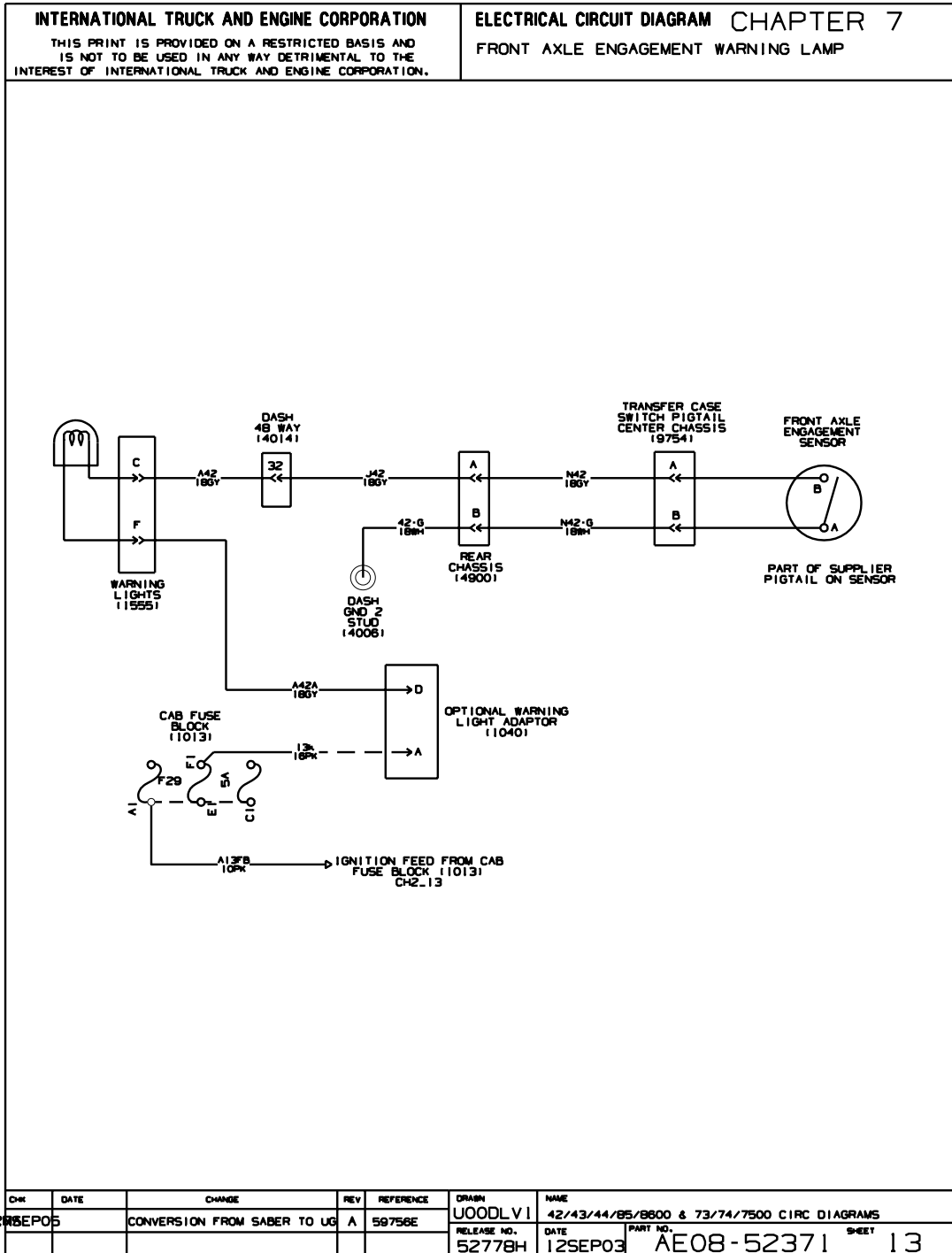


Figure 101 Front Axle Engagement Warning Lamp

8. LIGHTS (CHAPTER 8)

8.1. BACKUP LIGHTS, P. 1

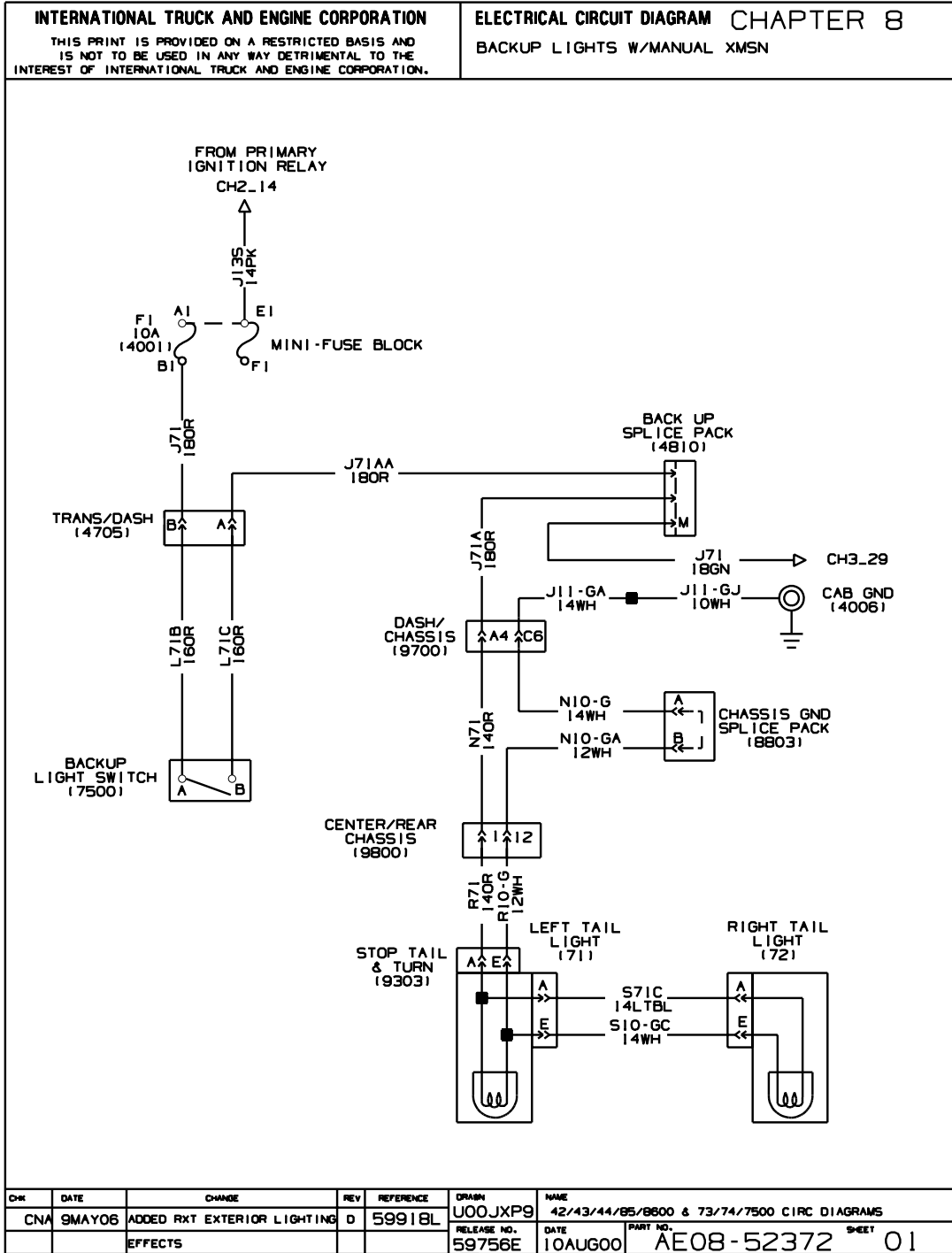


Figure 102 BackUp Lights

8.2. LIGHT SYSTEMS — CLEARANCE, MARKER, AND PARK, P. 2

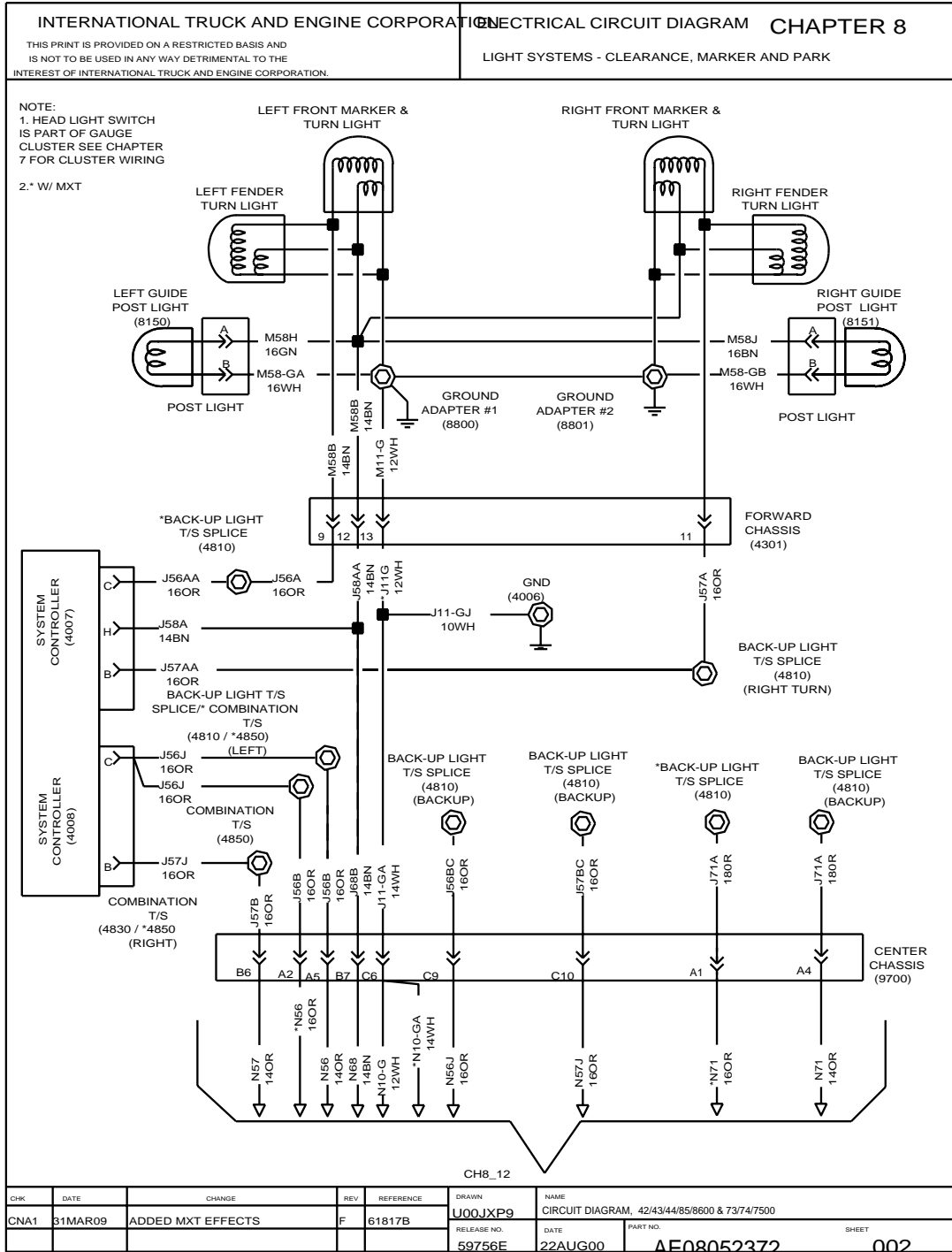


Figure 103 Light Systems — Clearance, Marker, and Park

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

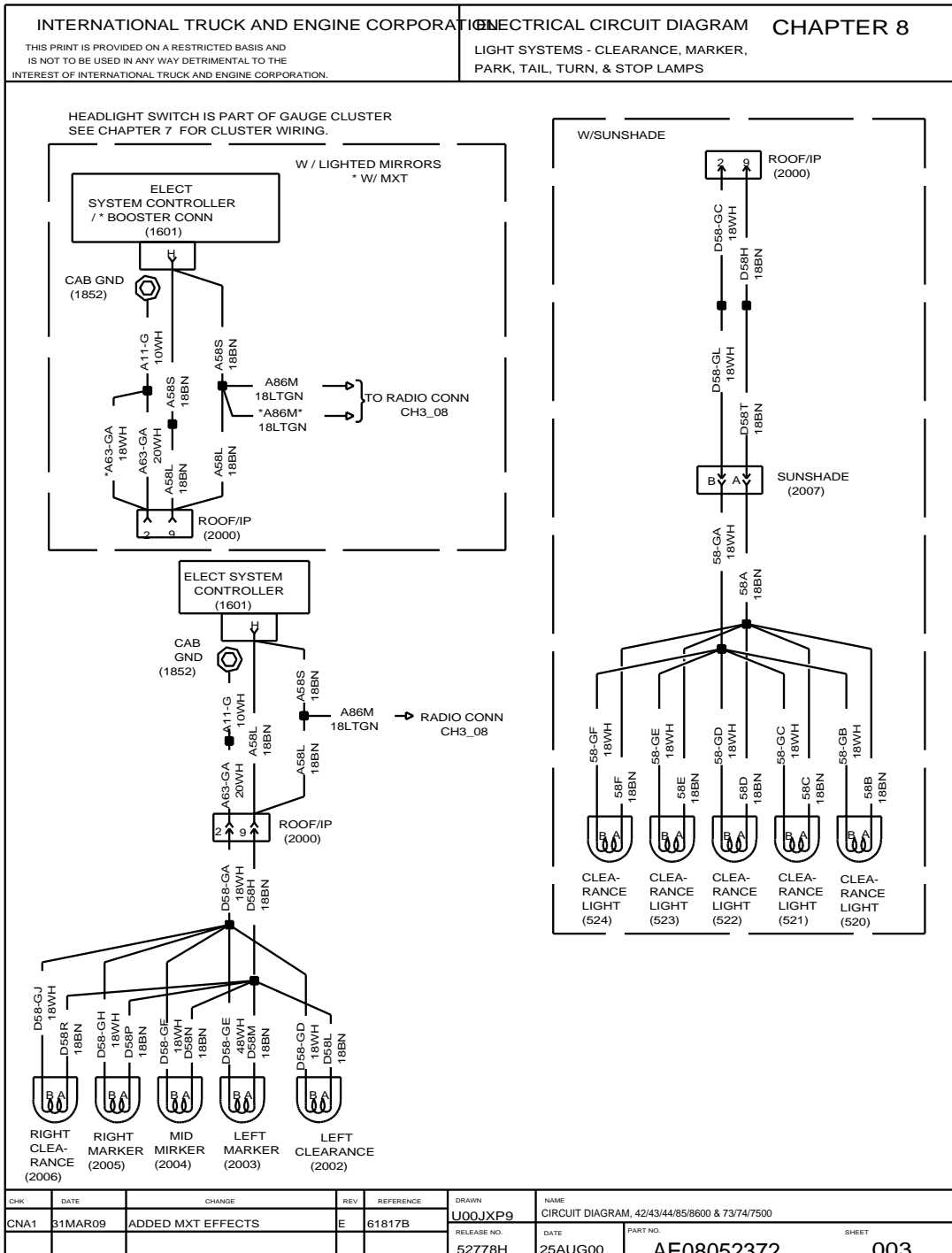


Figure 104 Light Systems — Clearance, Marker, Park, Tail, Turn and Stop Lamps

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

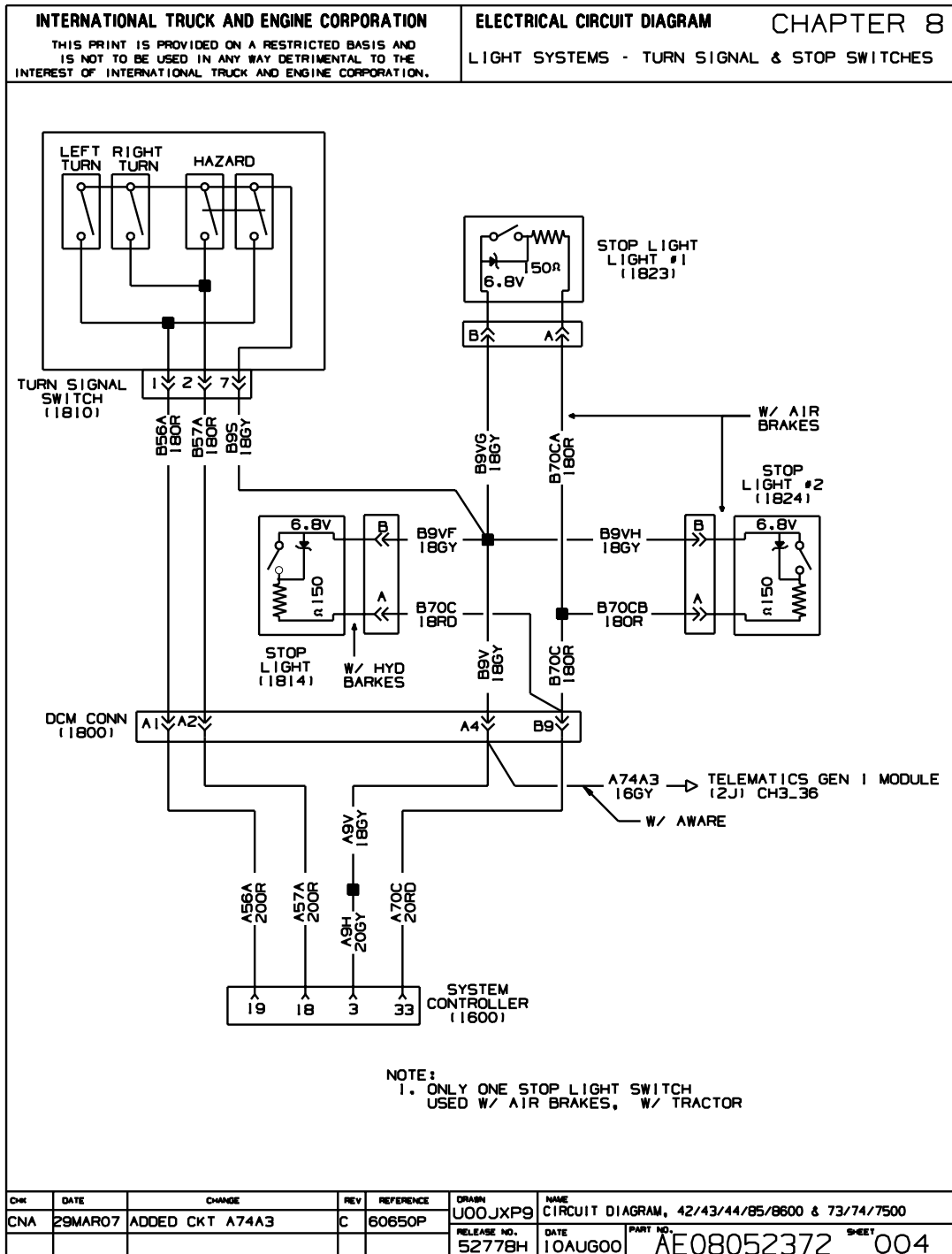


Figure 105 Light Systems — Turn Signal and Stop Switches

8.5. DOME LIGHT, MAP LIGHT, P. 5

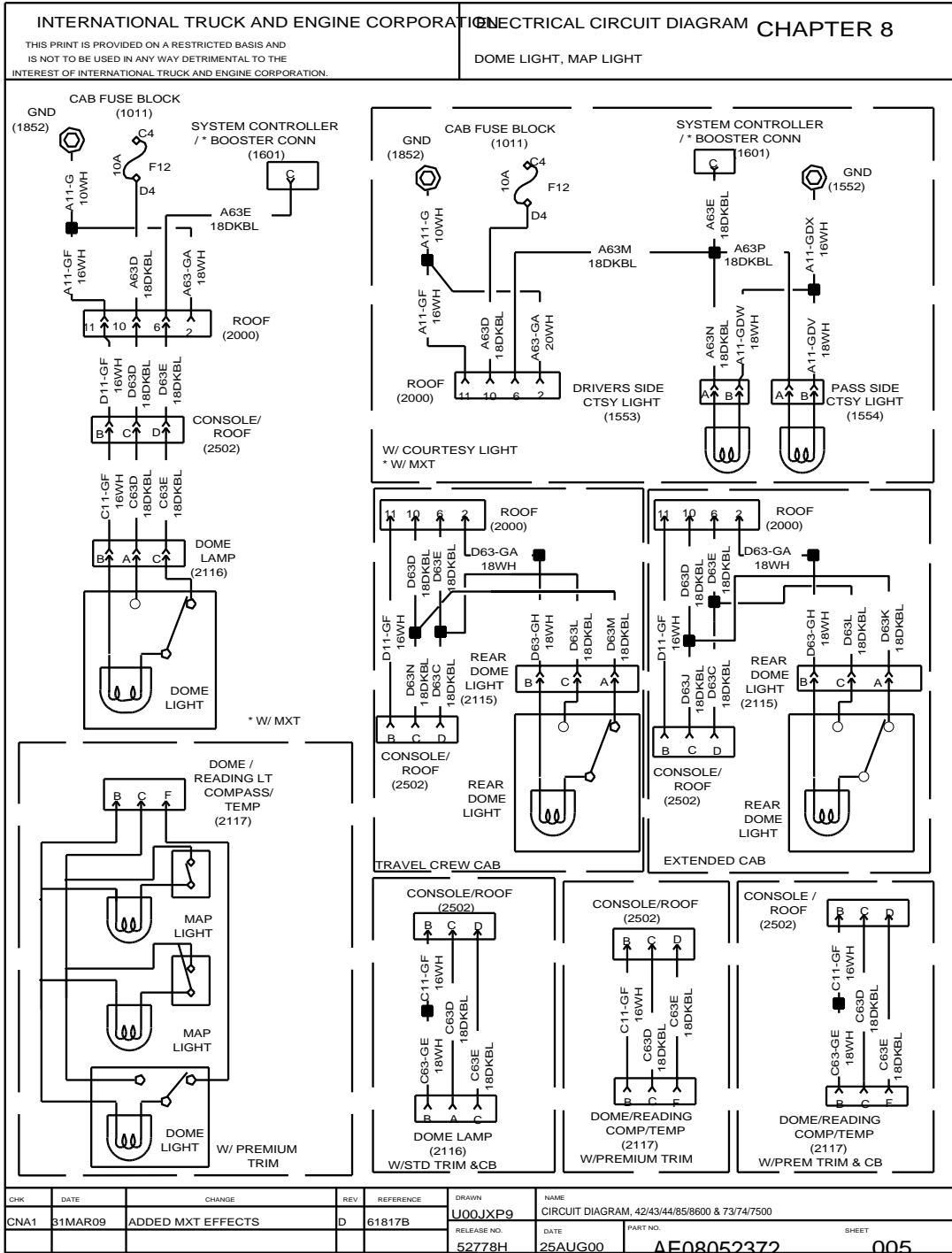


Figure 106 Dome Light, Map Light

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

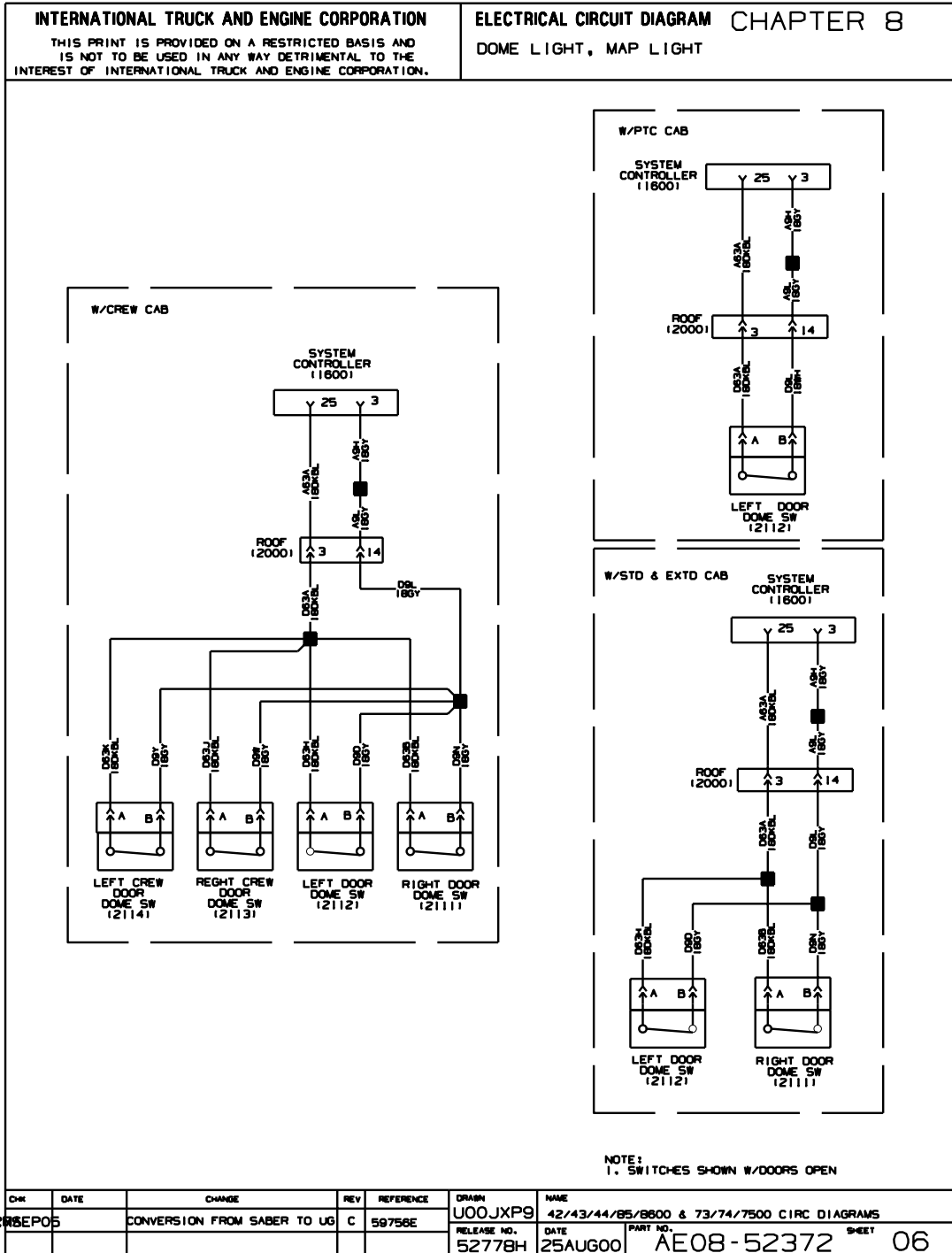


Figure 107 Dome Light, Map Light (Cont.)

8.7. FOG LIGHT AND WORK LIGHT, P. 7

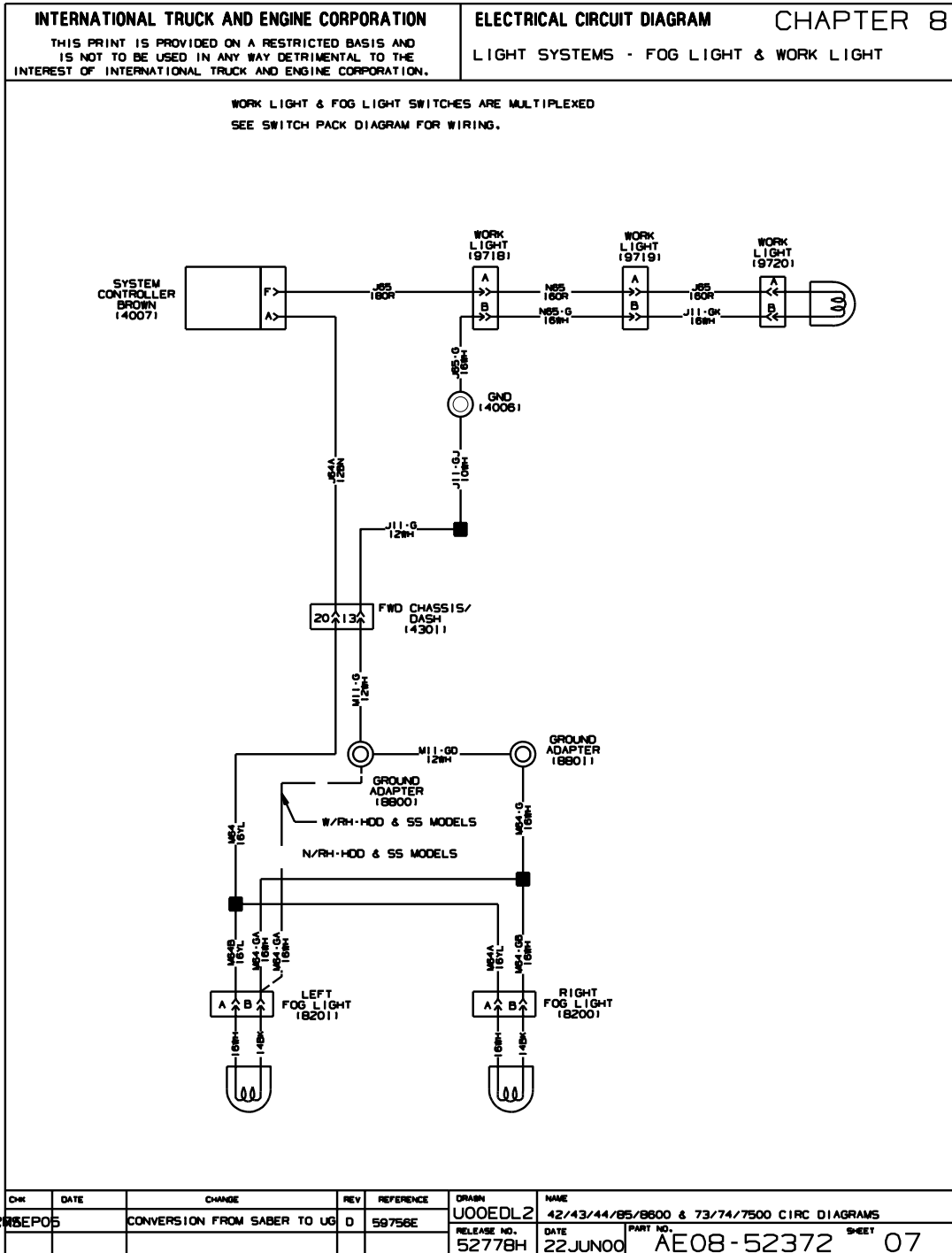


Figure 108 Fog Light and Work Light

8.8. HEADLIGHTS, P. 8

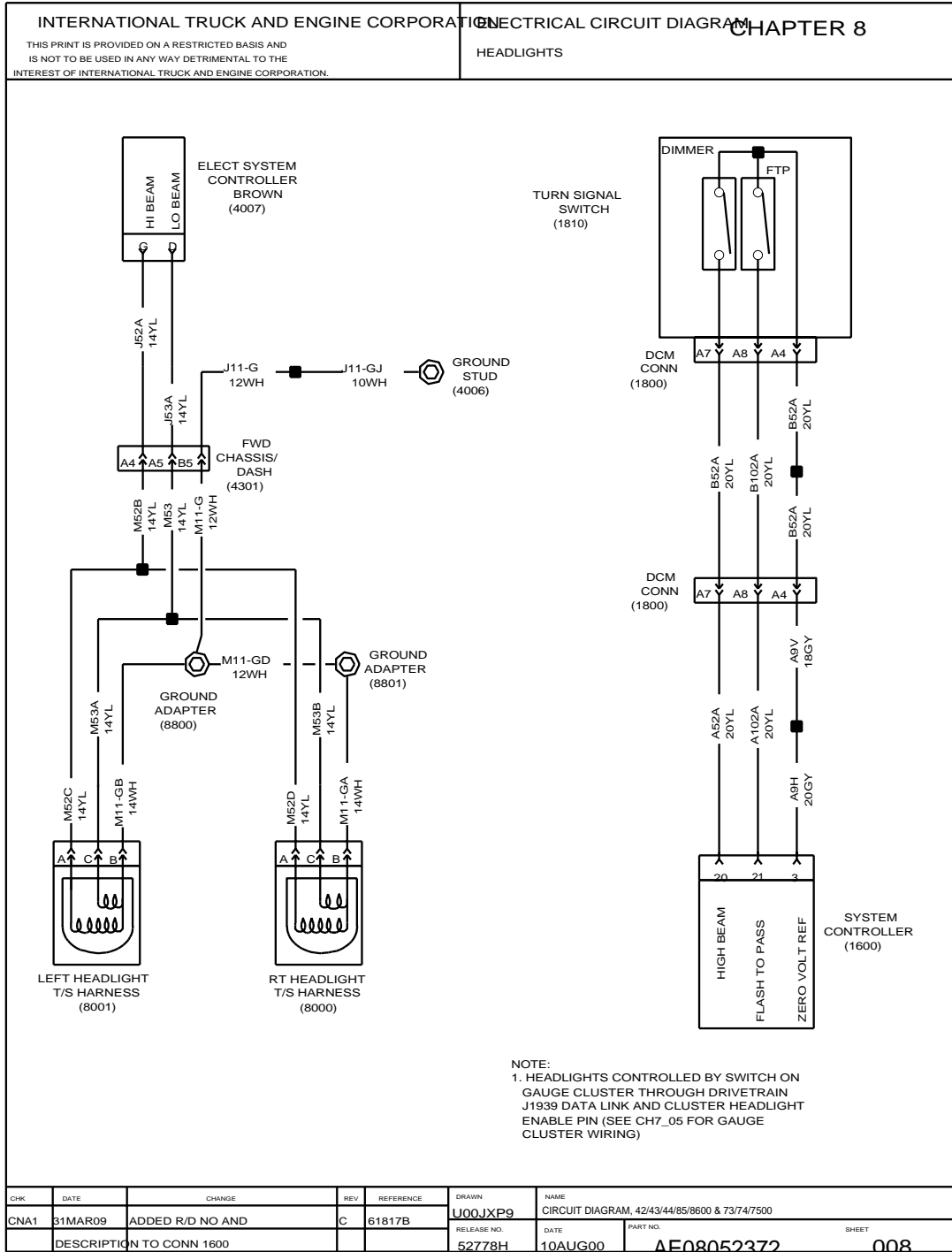


Figure 109 Headlights

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

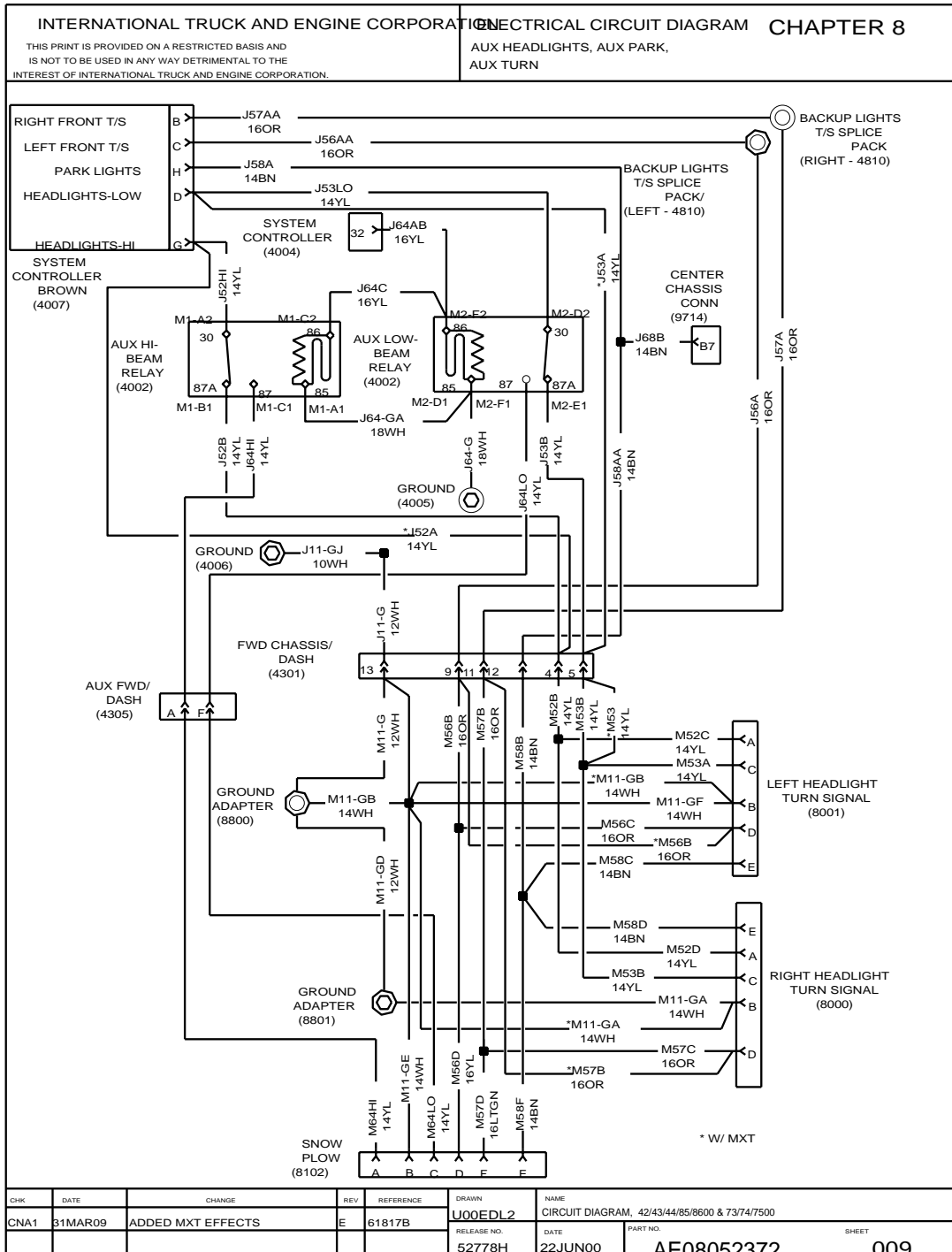


Figure 110 Aux. Headlights, Aux. Park, Aux Turn

8.10. PANEL LIGHTS, P. 10

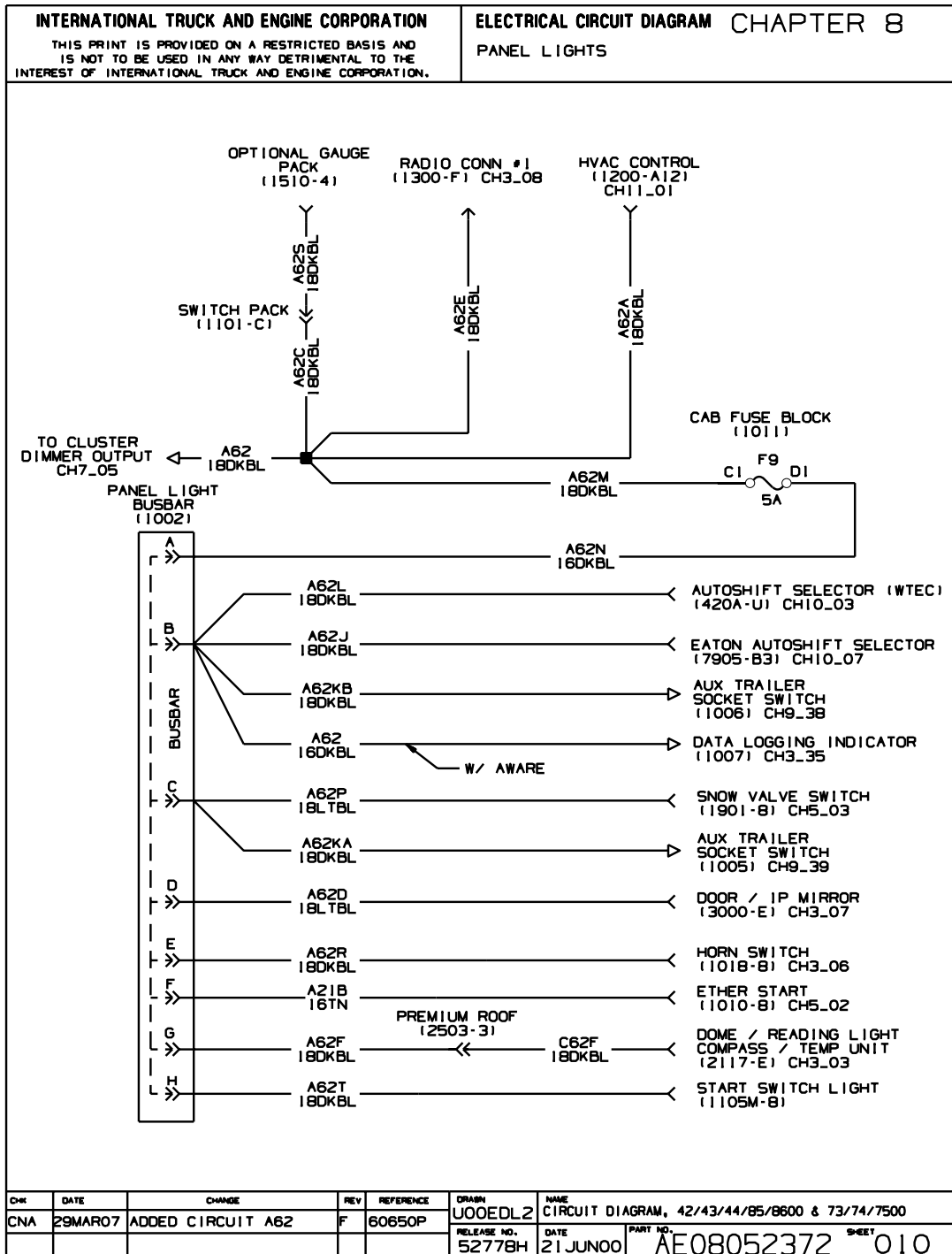


Figure 111 Panel Lights

8.11. RXT EXTERIOR LIGHTING, P. 11

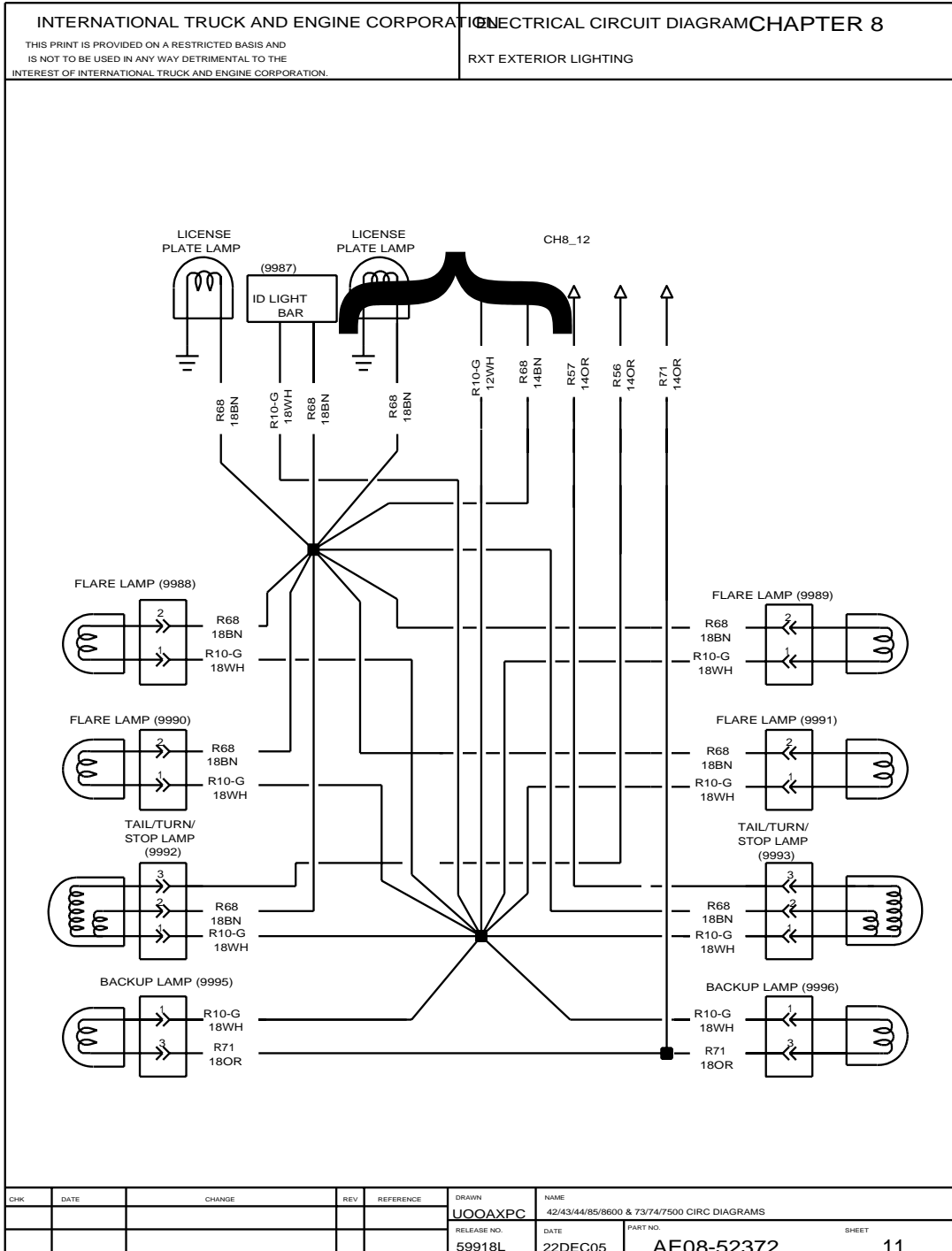


Figure 112 RXT Exterior Lighting

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

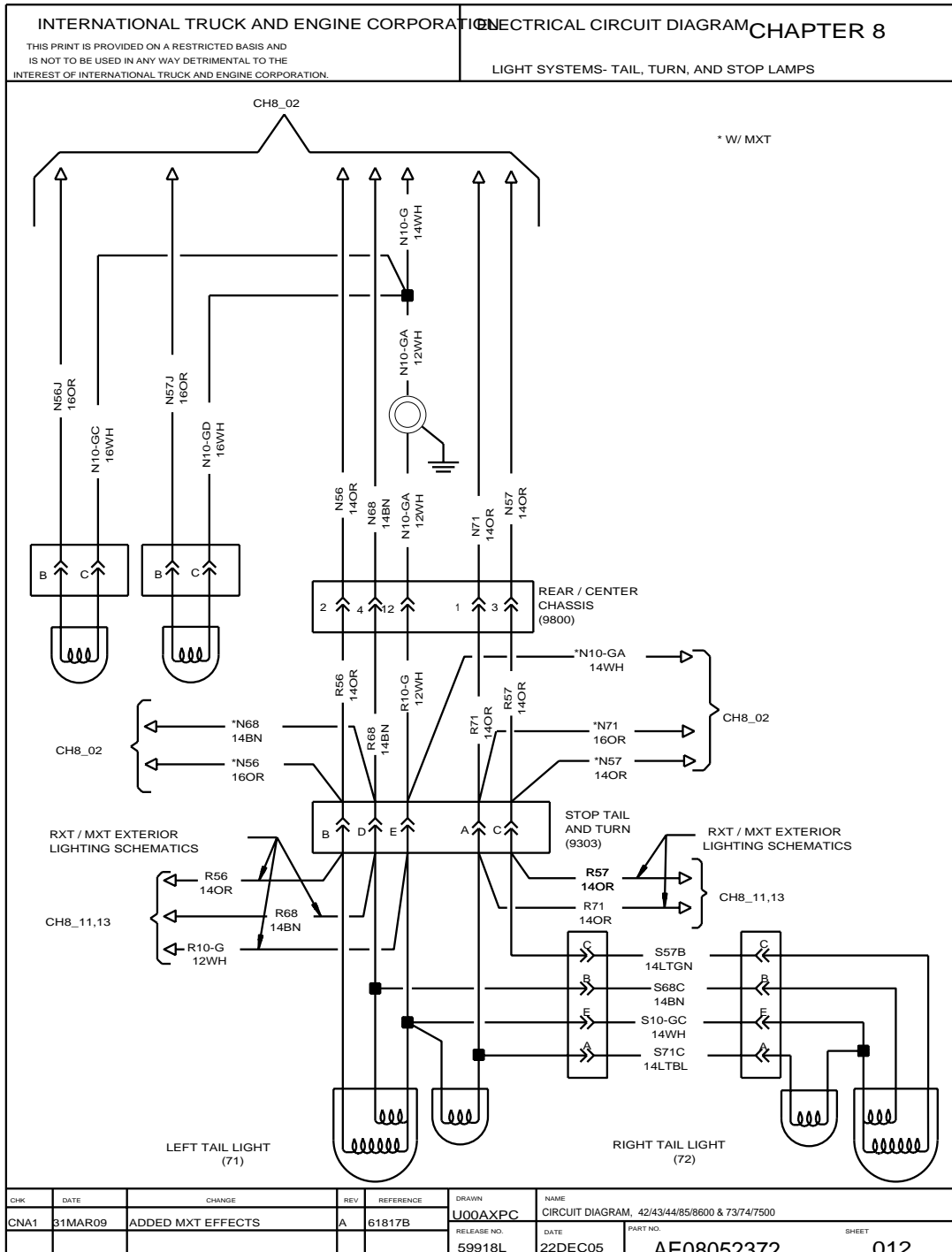


Figure 113 Tail, Turn, and Stop Lamps

8.13. MXT — EXTERIOR LIGHTING, P. 13

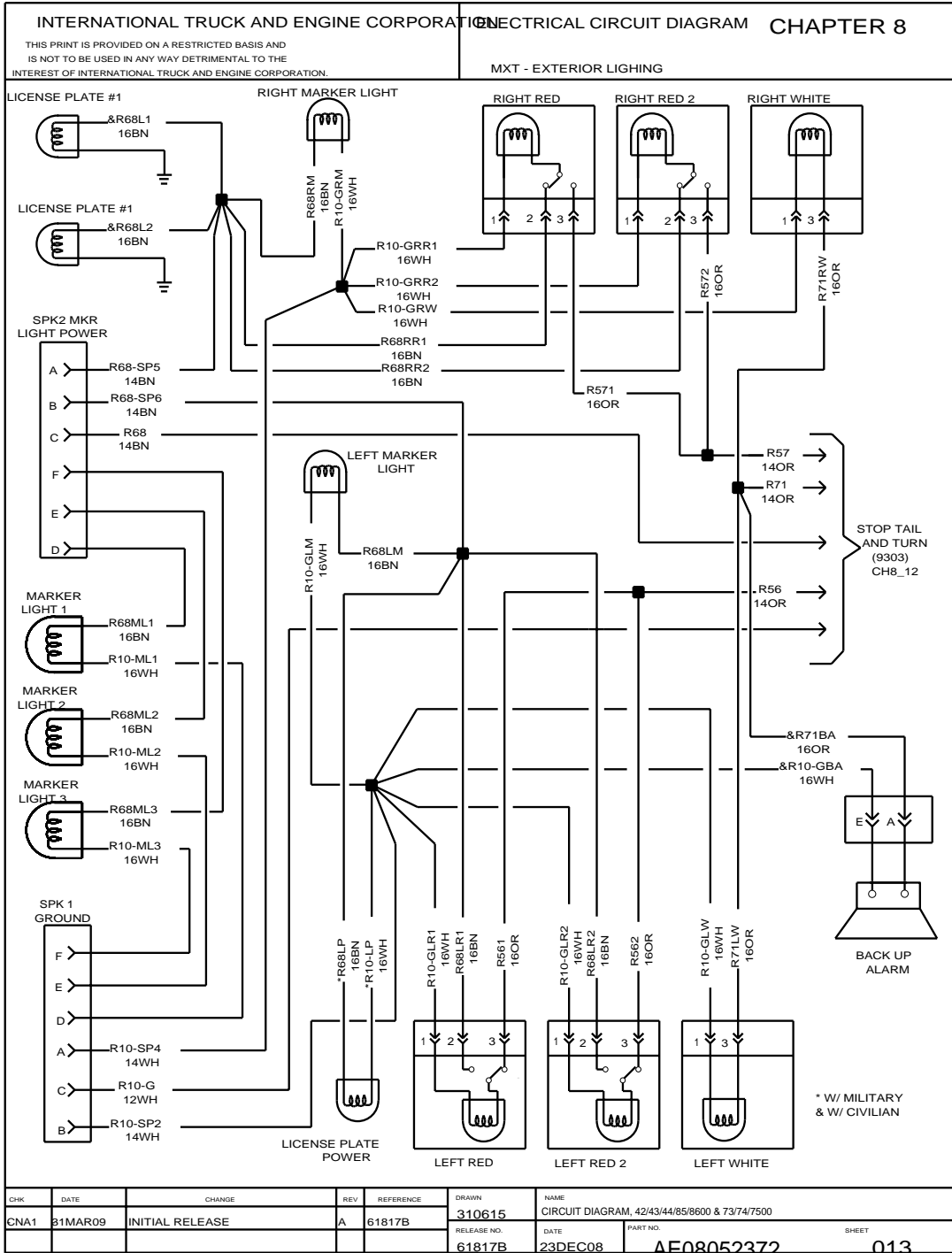


Figure 114 MXT — Exterior Lighting

9. CHASSIS ACCESSORIES (CHAPTER 9)

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

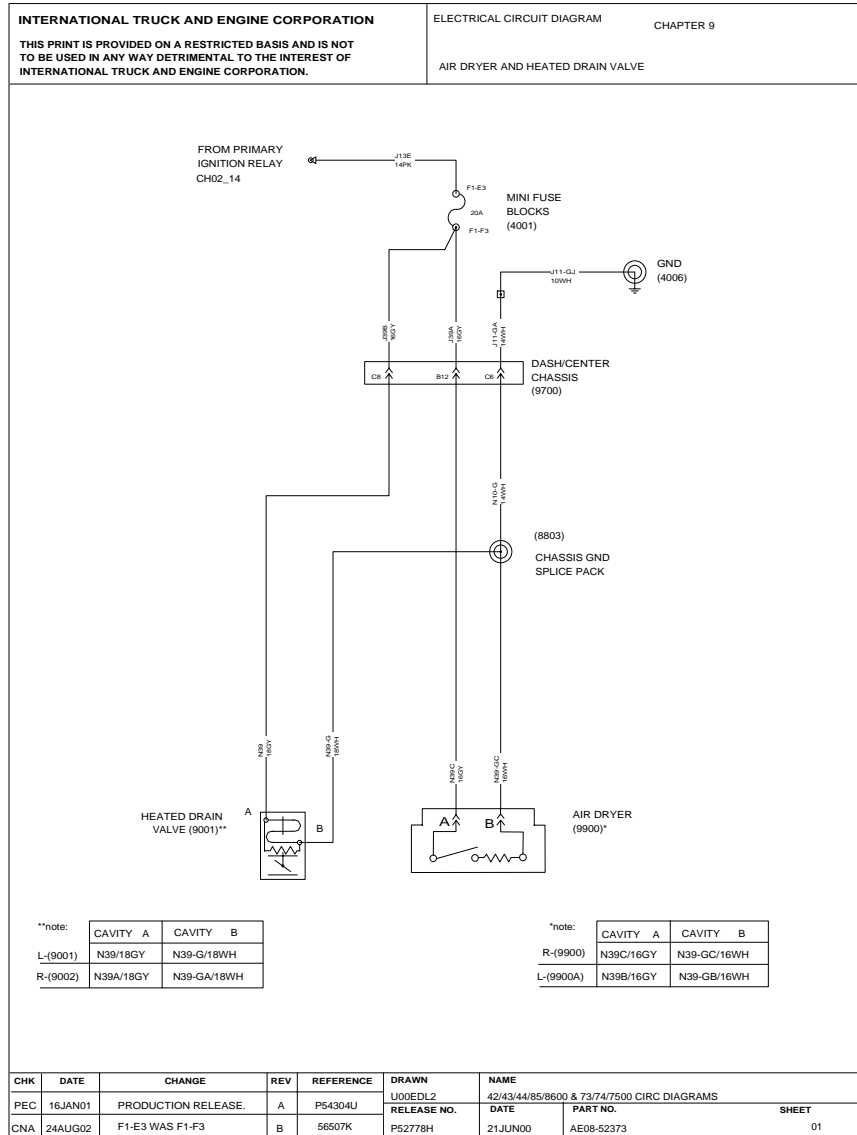


Figure 115 Air Dryer and Heated Drain Valve

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

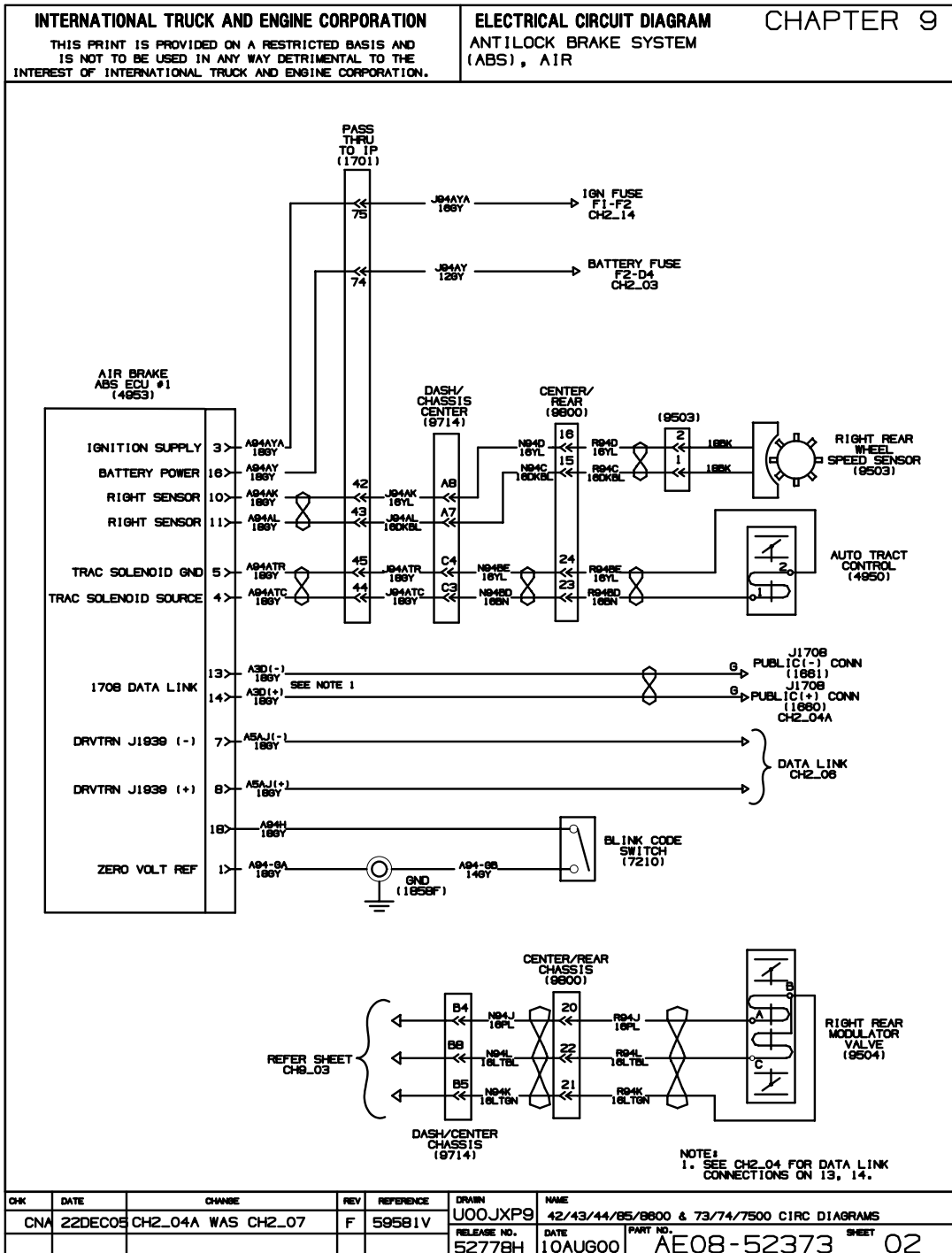


Figure 116 Antilock Brake System (ABS), Air

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

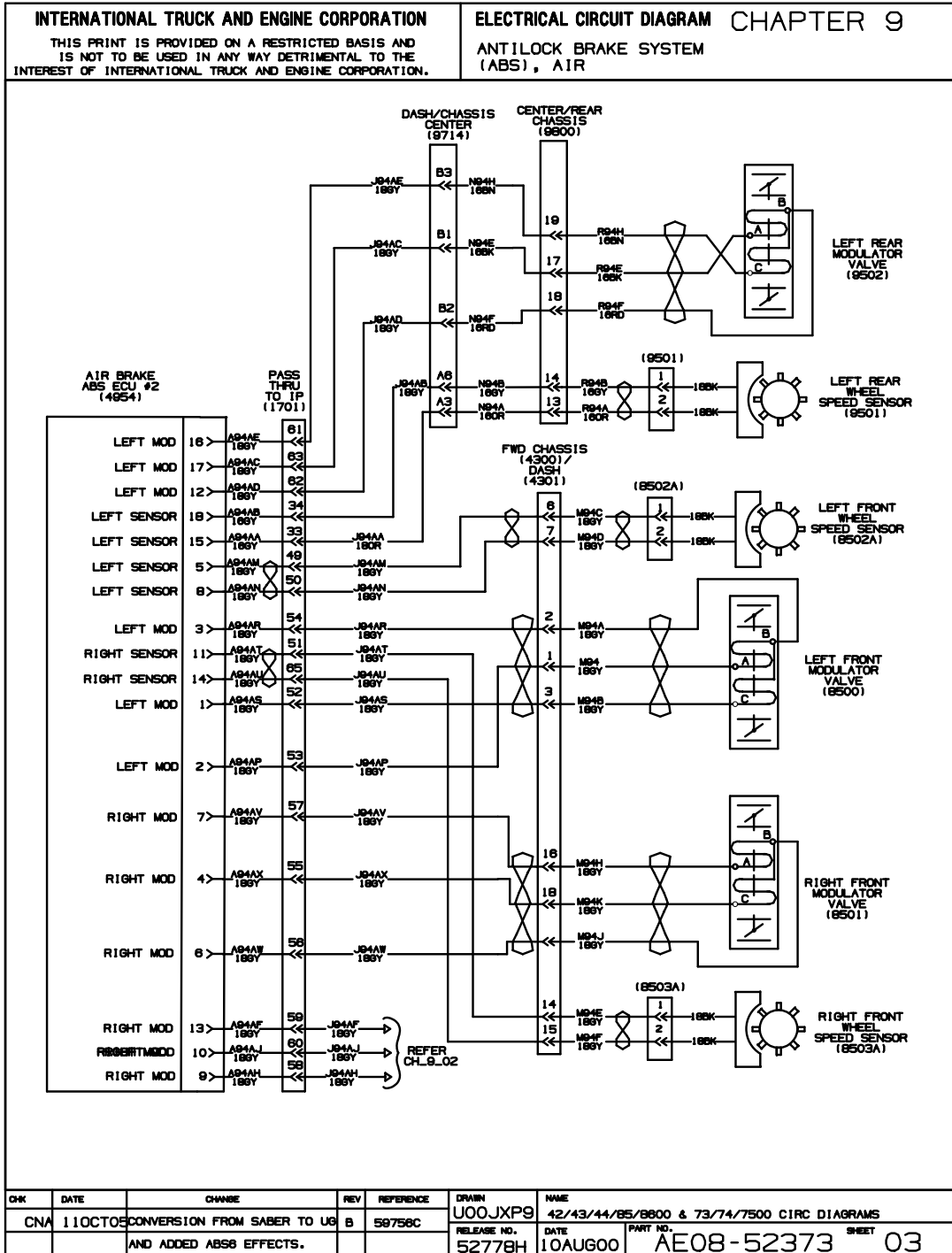


Figure 117 Antilock Brake System (ABS), Air, Traction Control

9.4. ANTILOCK BRAKE SYSTEM (ABS), HYDRAULIC, P. 4

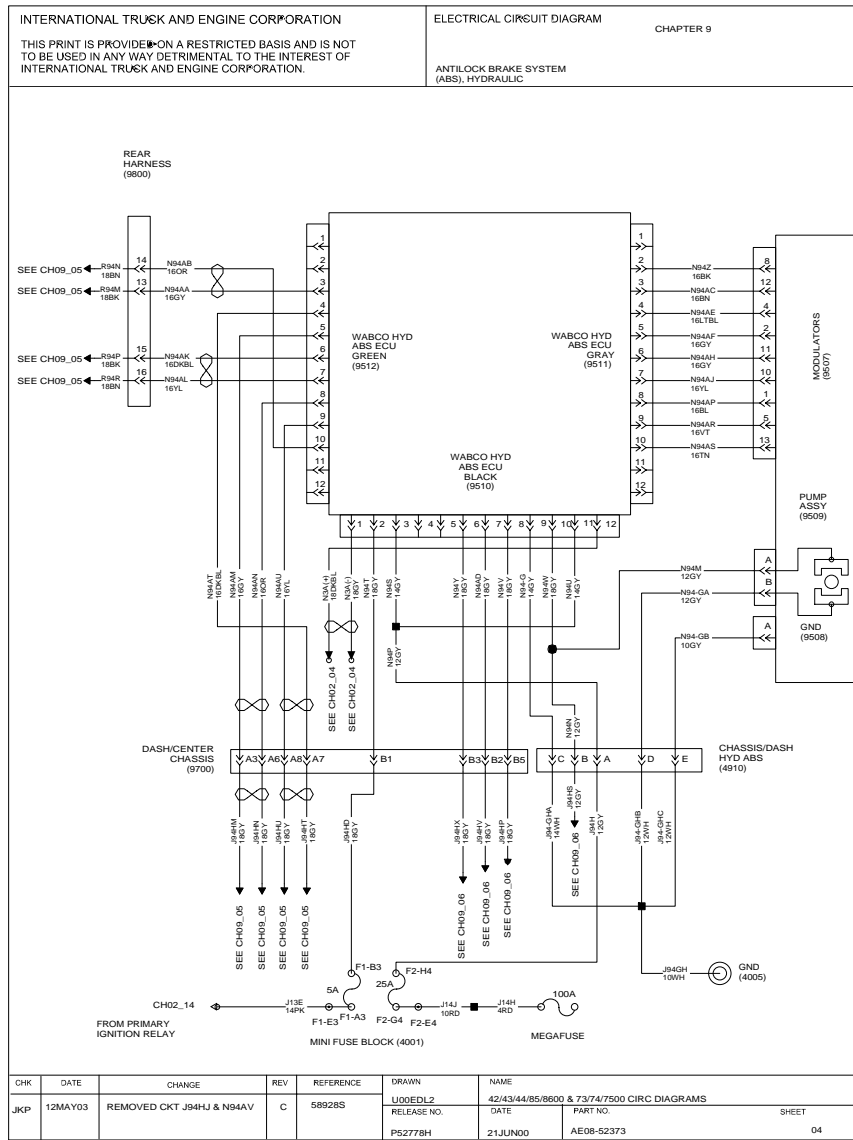


Figure 118 Antilock Brake System (ABS), Hydraulic

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

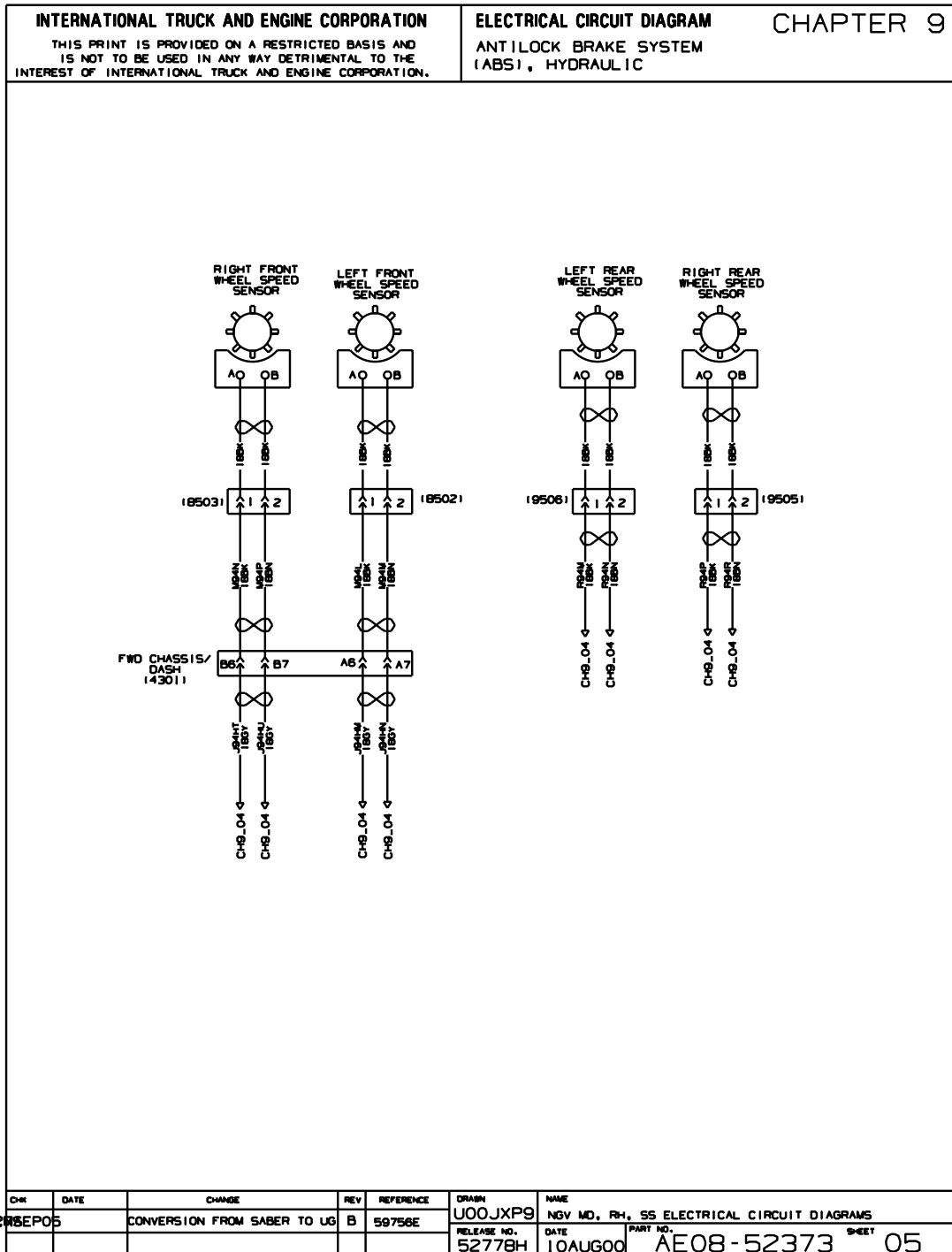


Figure 119 Antilock Brake System (ABS), Hydraulic (Cont.)

9.6. ANTILOCK BRAKE SYSTEM (ABS), HYDRAULIC (CONT.), P. 6

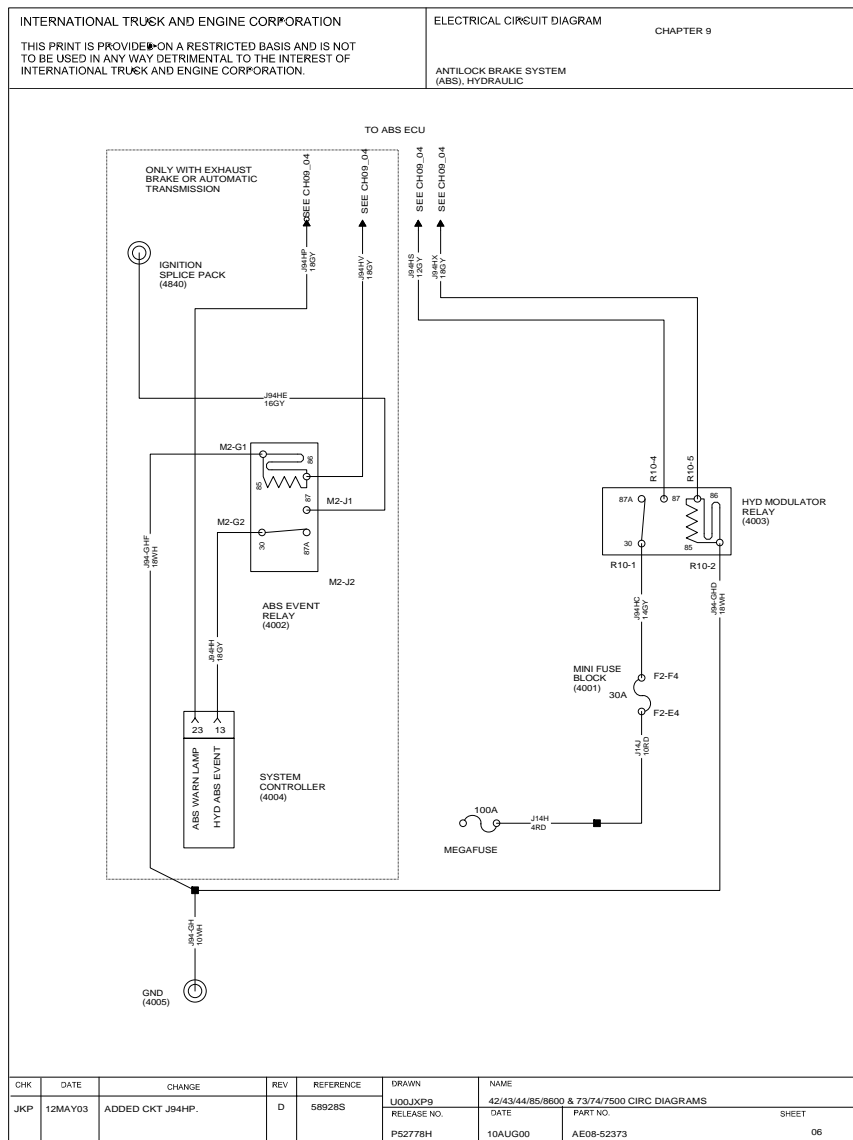


Figure 120 Antilock Brake System (ABS), Hydraulic (Cont.)

9.7. TWO SPEED AXLE SWITCH WITH MANUAL TRANSMISSION AND I6 HEUI FUEL HEATER N/WARN LIGHTS, P. 7

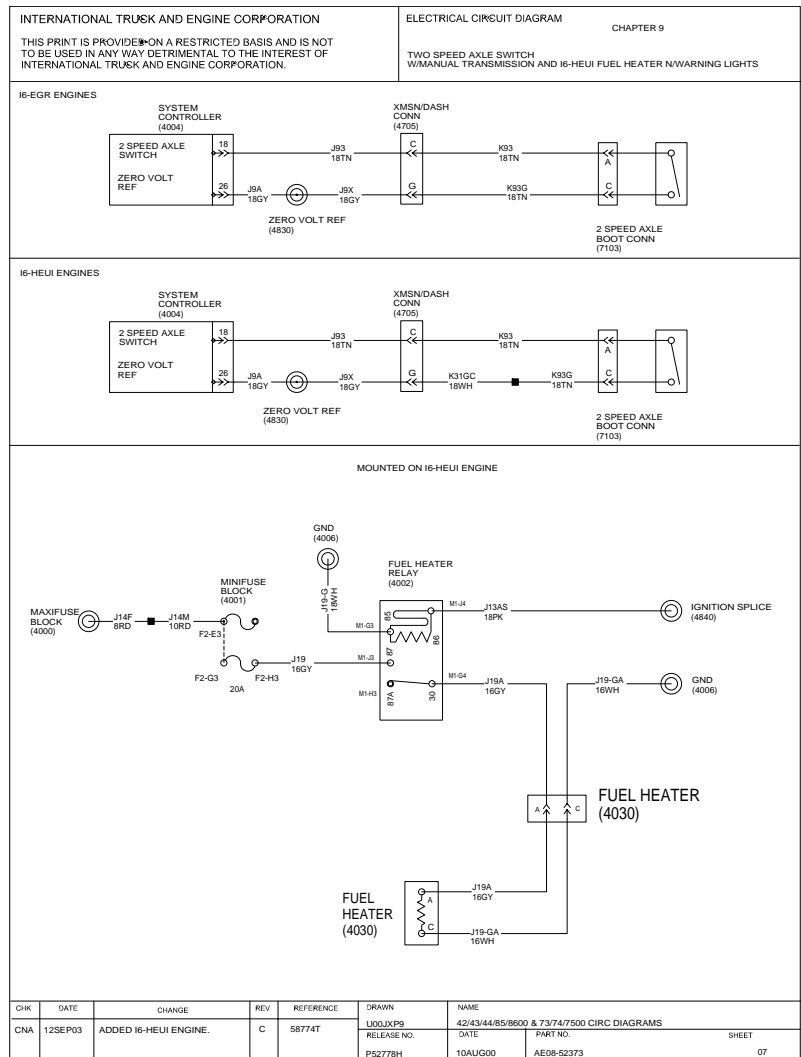


Figure 121 Two Speed Axle Switch With Manual Transmission and I6 HEUI Fuel Heater N/Warn Lights

9.8. BRAKE SYSTEM, HYDRAULIC, P. 8

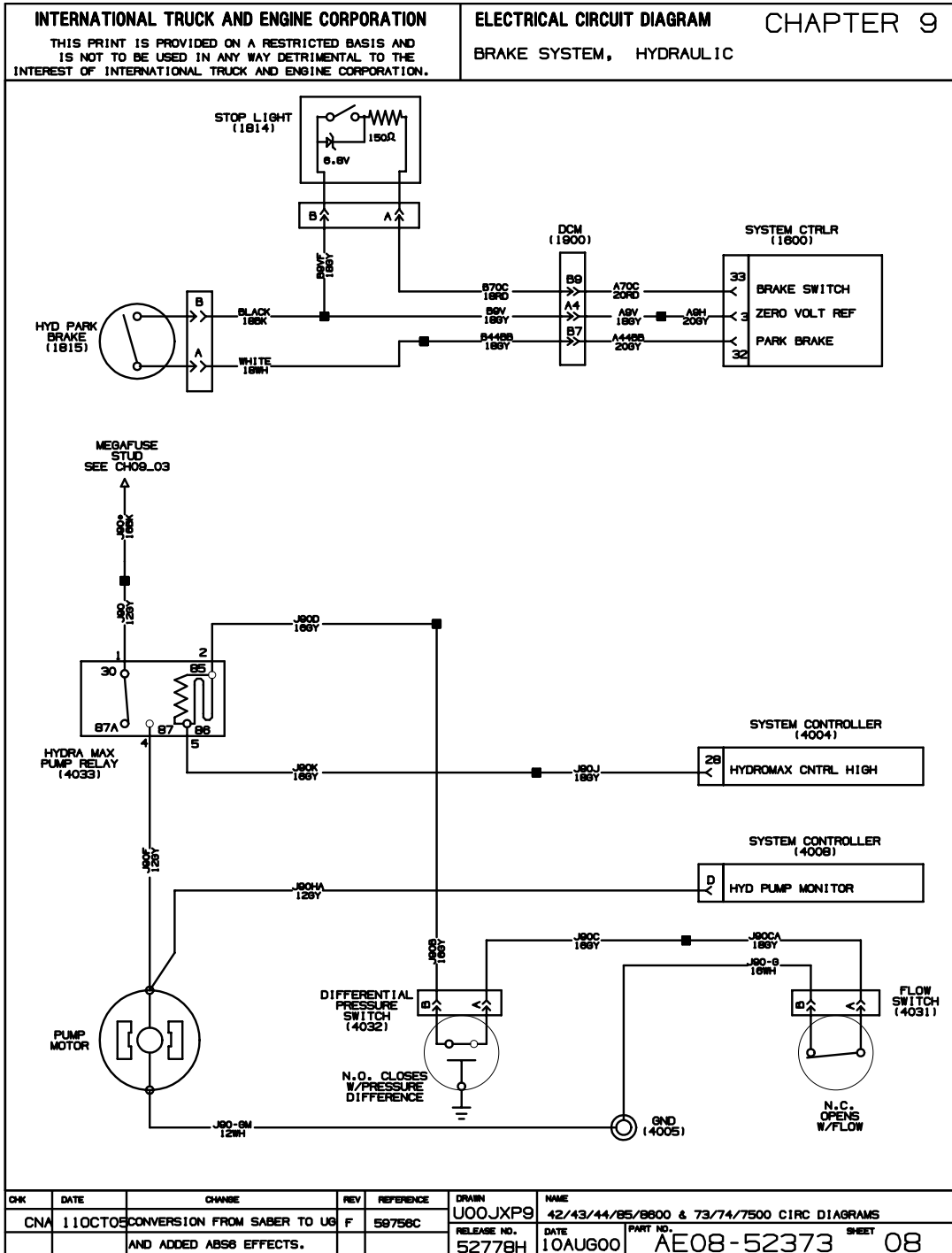


Figure 122 Brake System, Hydraulic

9.9. FUEL TRANSFER PUMP, P. 9

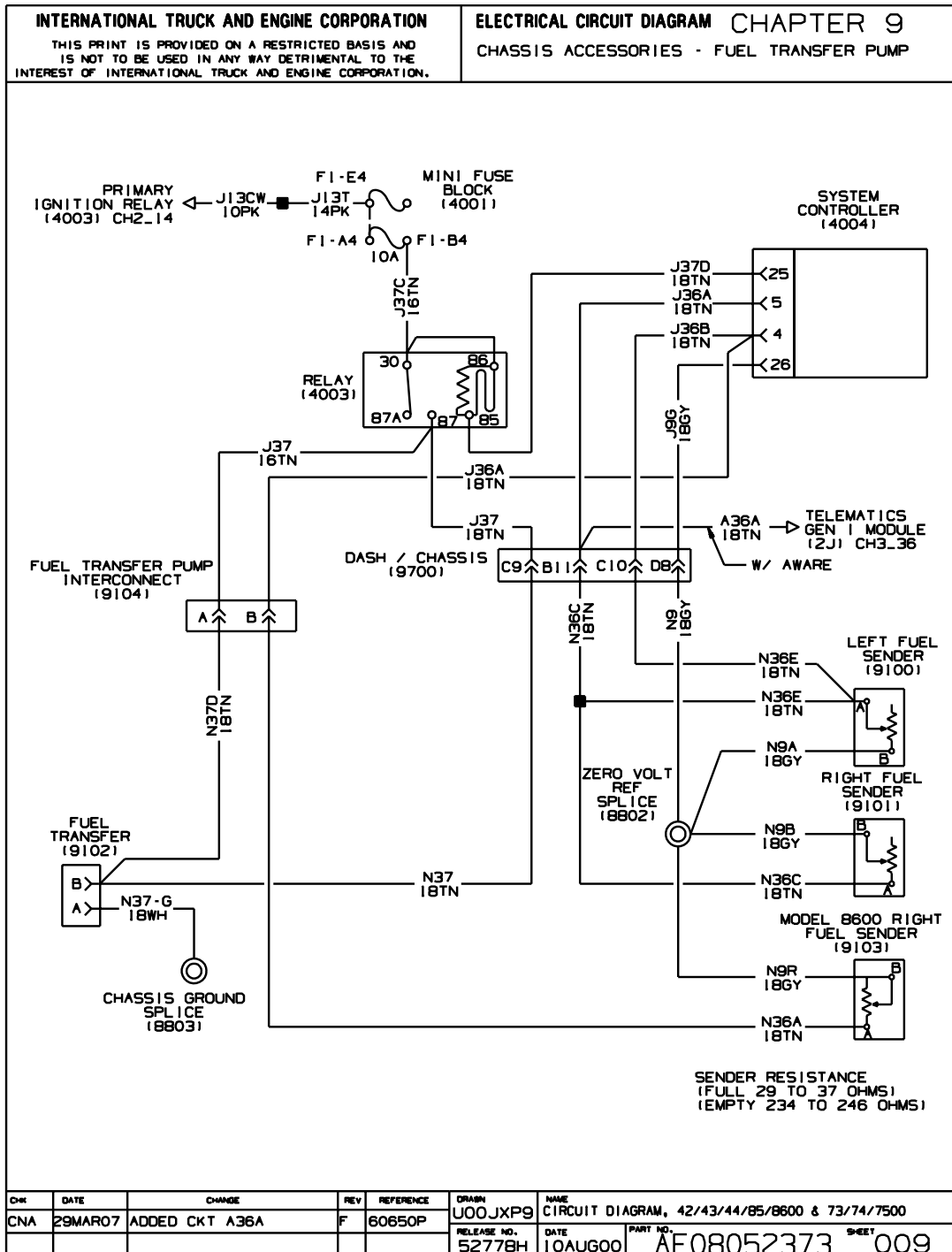


Figure 123 Fuel Transfer Pump

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

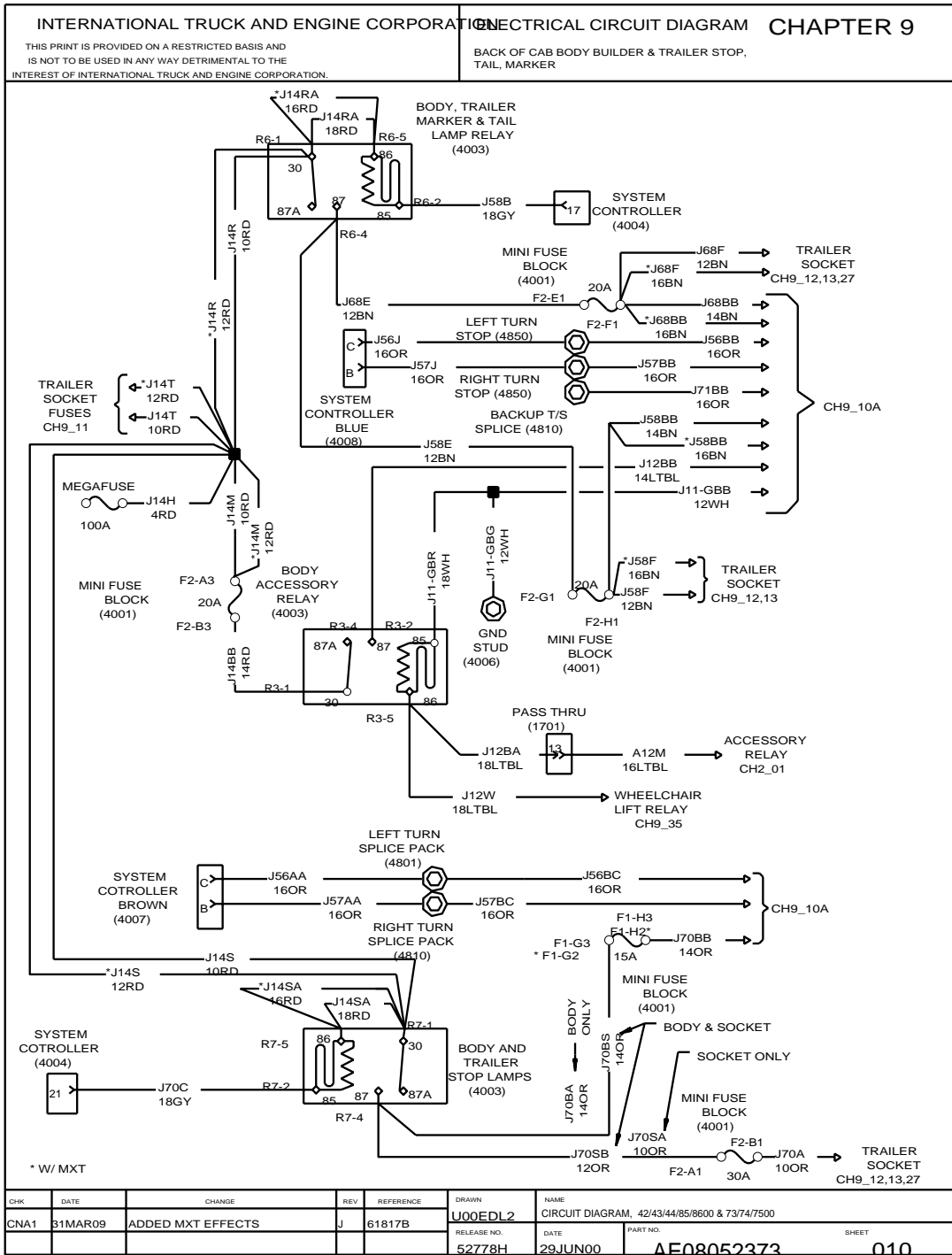


Figure 124 Back of Cab Body Builder and Trailer Stop, Tail, Marker

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

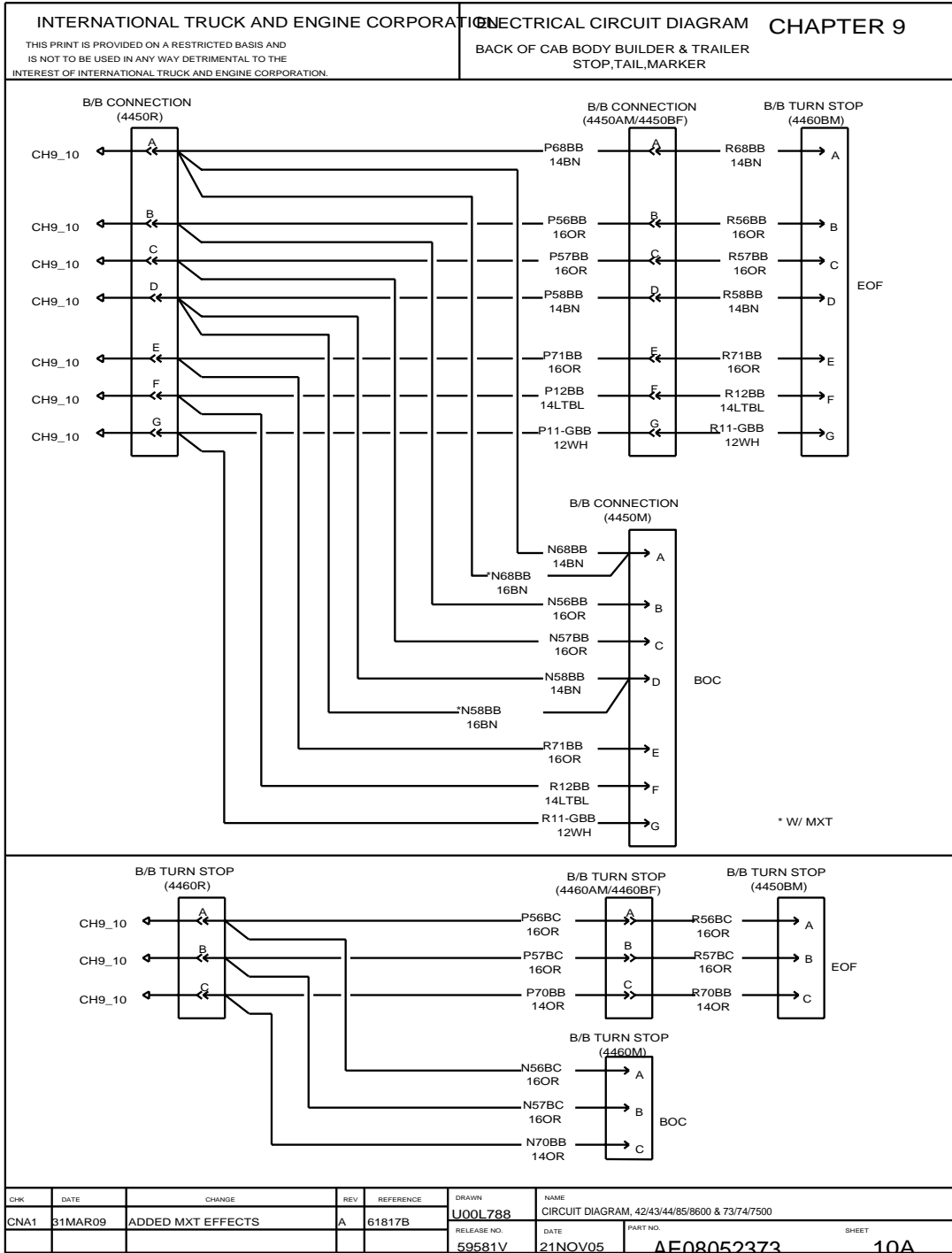


Figure 125 Back of Cab Body Builder and Trailer Stop, Tail, Marker

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

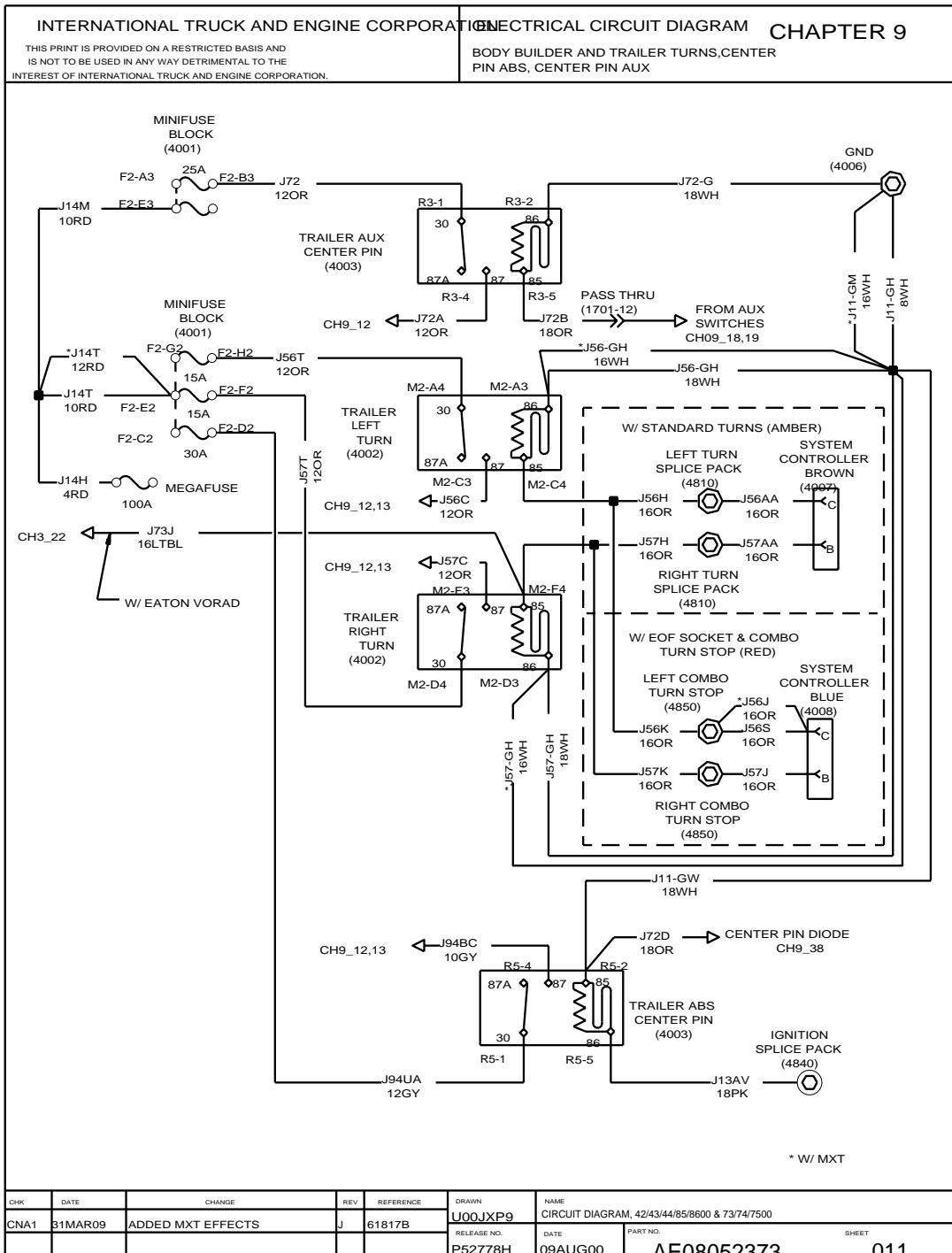


Figure 126 Body Builder and Trailer Turns, Center Pin ABS, Center Pin Aux

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

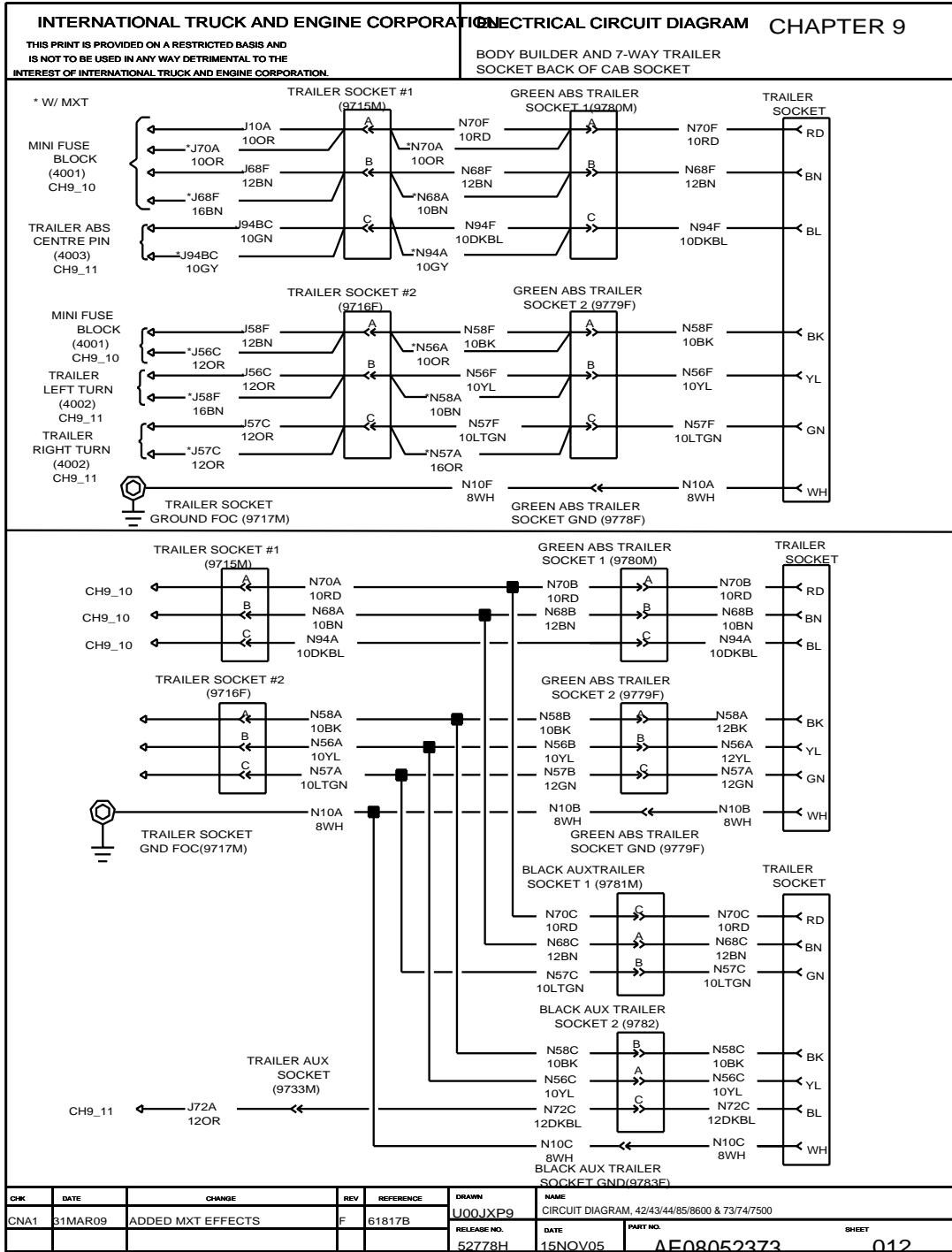


Figure 127 Body Builder and Trailer Socket Back of Cab Sockets

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

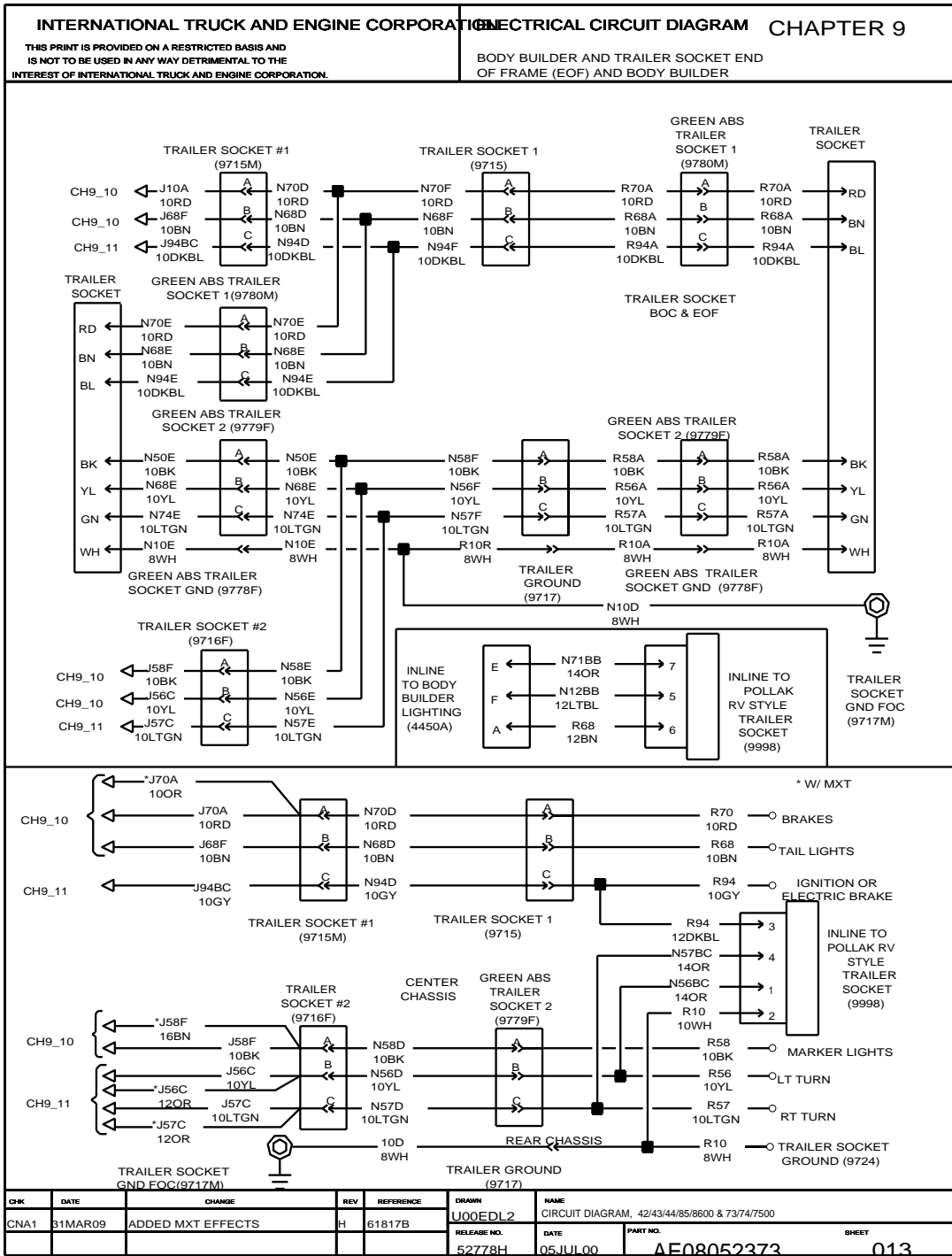


Figure 128 Body Builder and Trailer Socket End of Frame (EOF) Socket and Body Builder

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

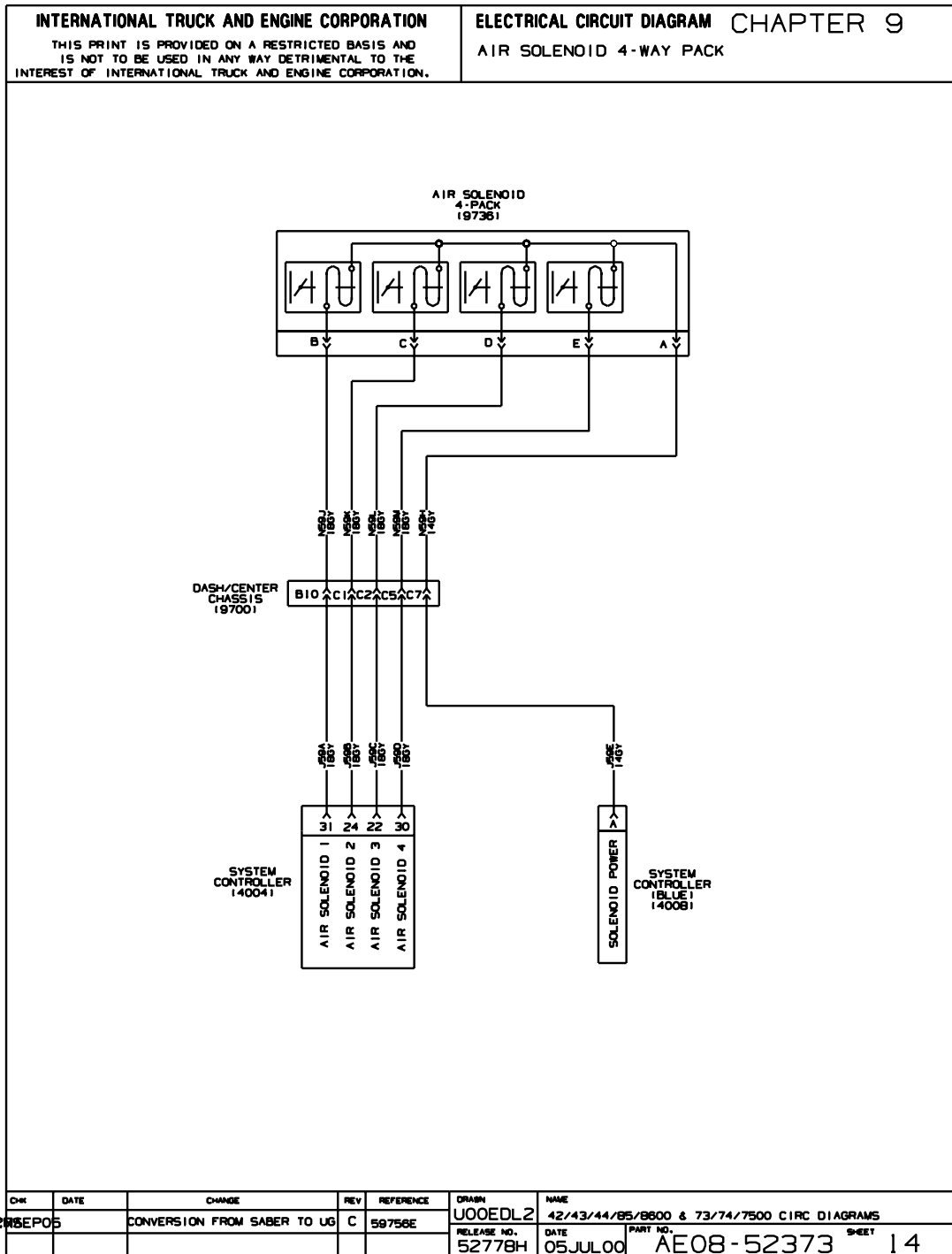


Figure 129 Air Solenoid 4-Way Pack

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

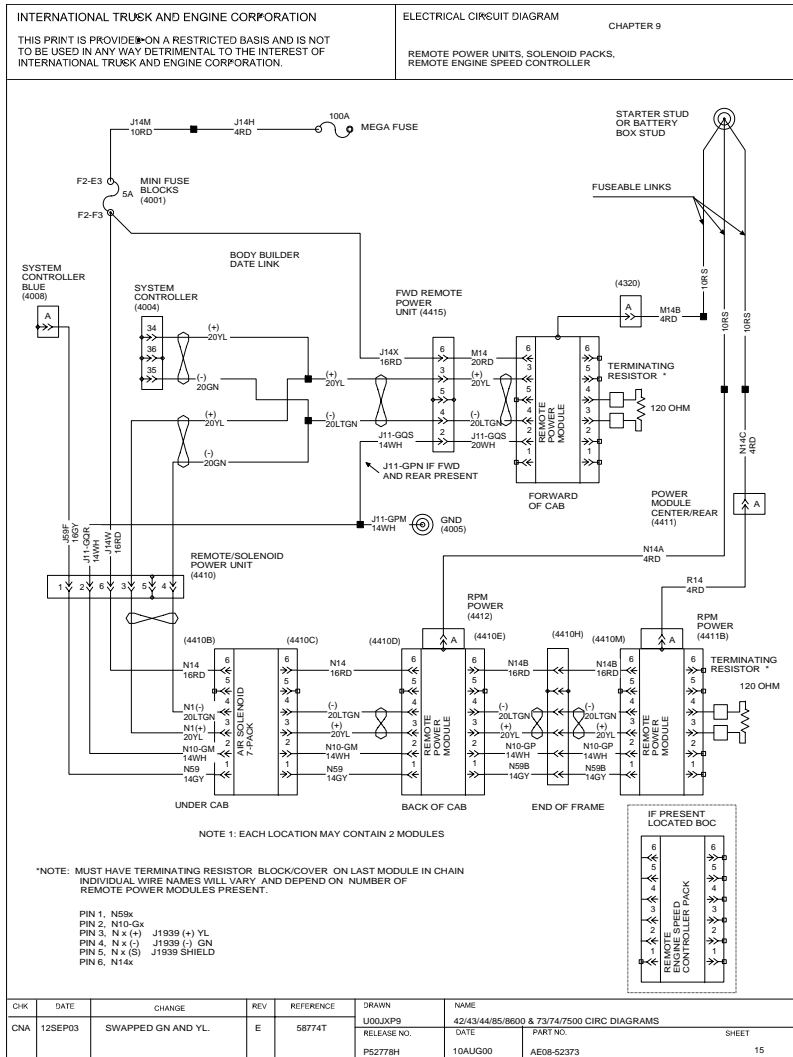


Figure 130 Remote Power Units, Solenoid Packs, Remote Engine Speed Controller

9.17. CHASSIS ACCESSORIES, P. 16

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 CHASSIS ACCESSORIES					
PAGE INTENTIONALLY LEFT BLANK						
CHR	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
2	SEP05	CONVERSION FROM SABER TO UG	B	59756E	U00EDL2	NGV MD, RH, 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

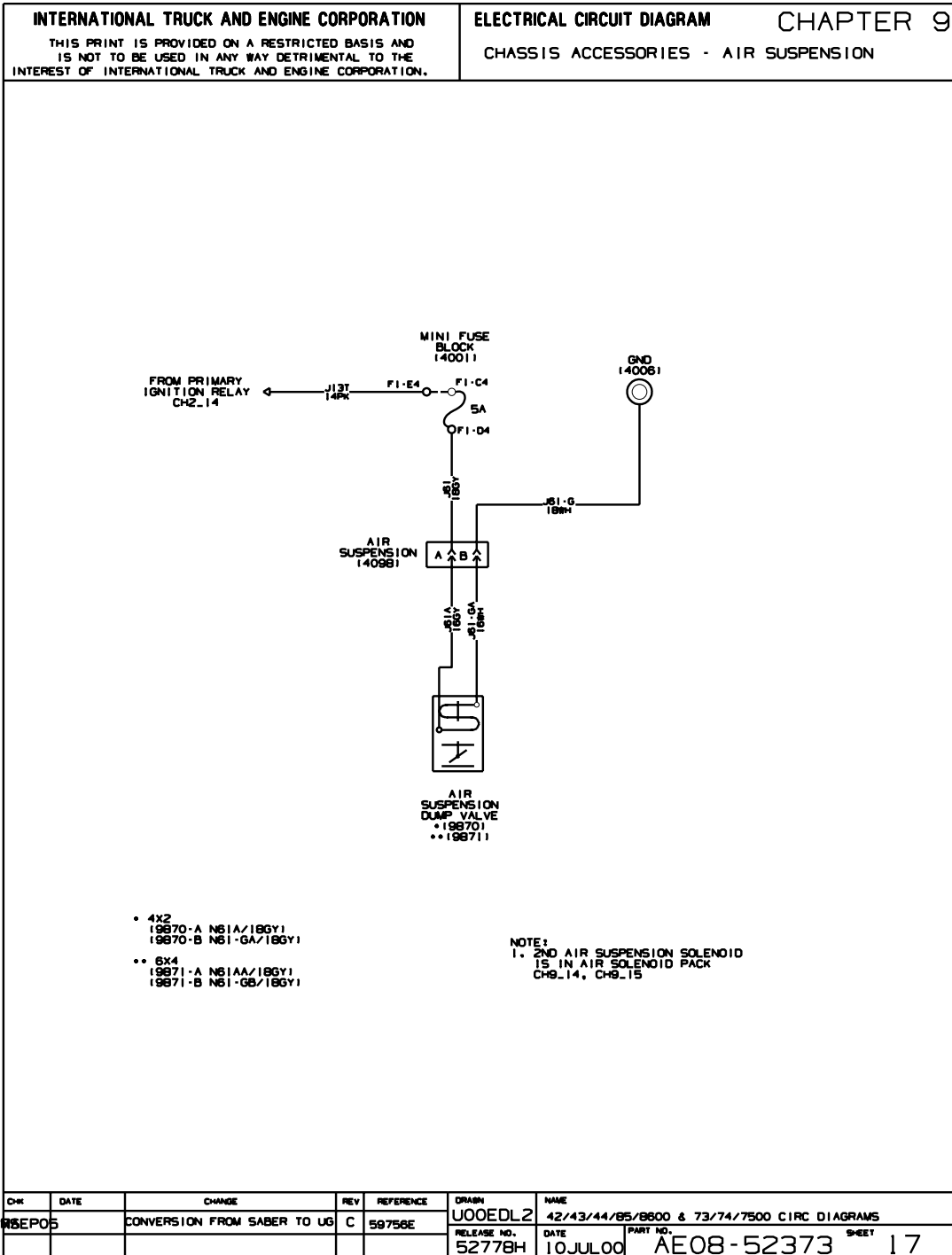


Figure 132 Air Suspension

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

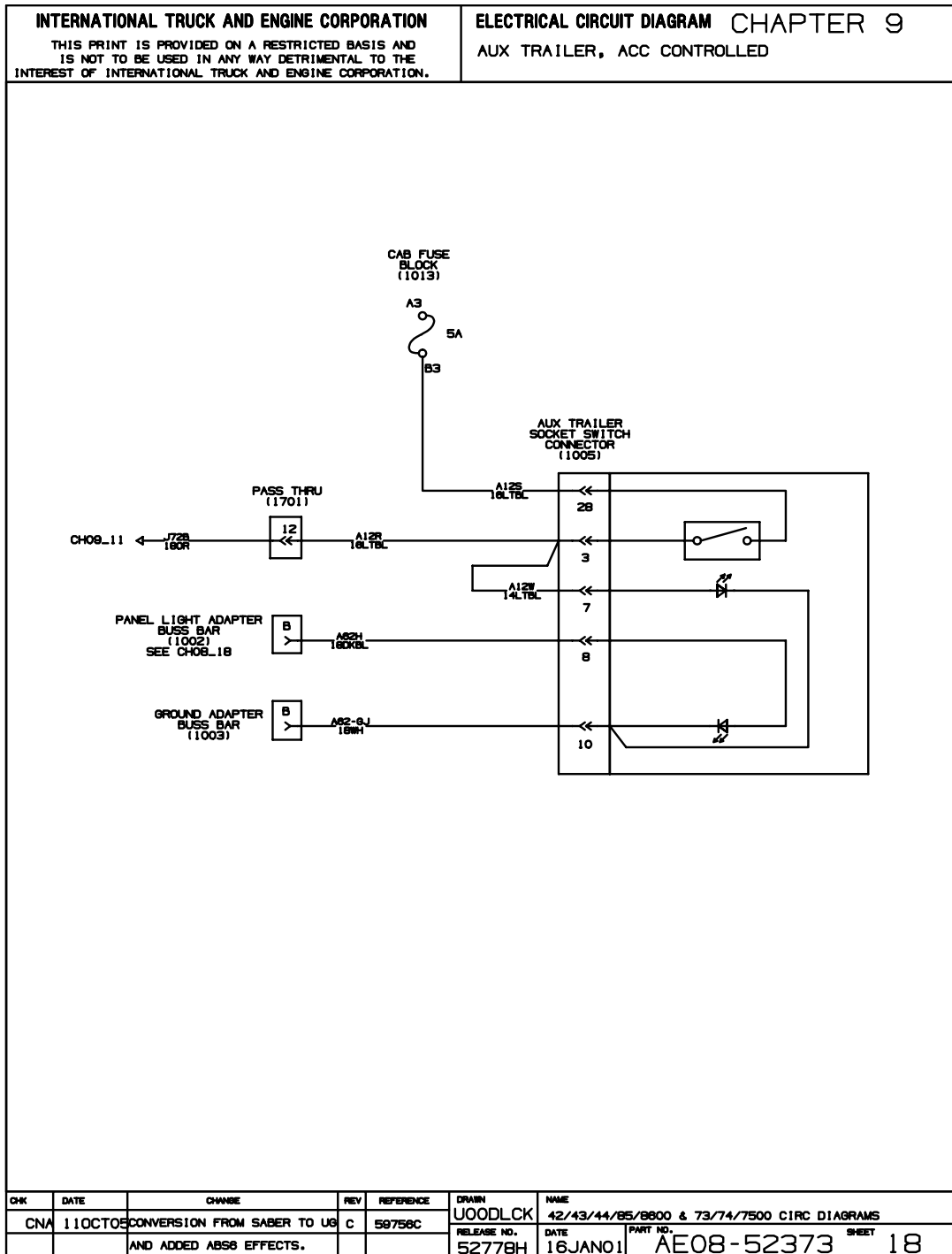


Figure 133 Aux. Trailer, Acc Controlled

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

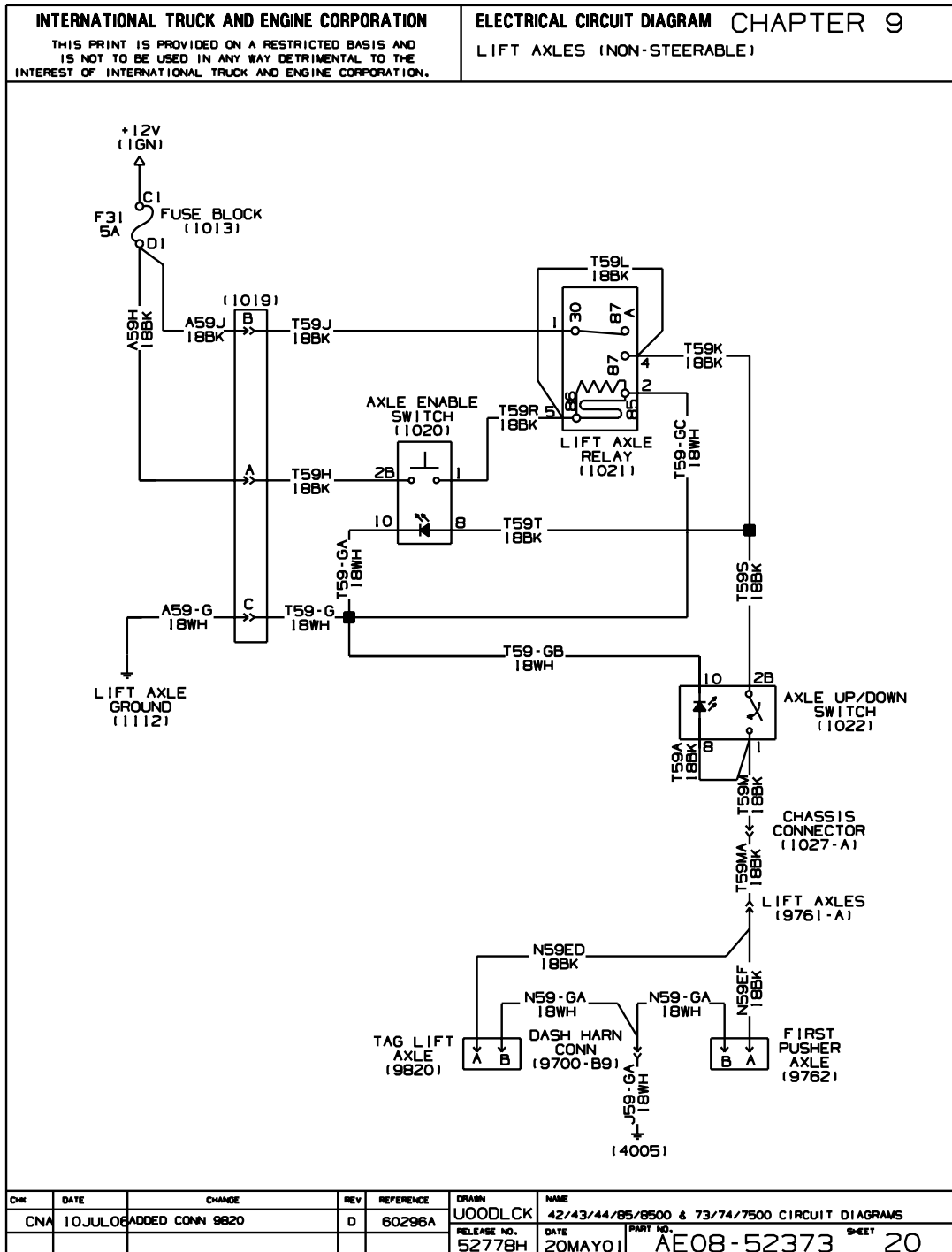


Figure 135 Lift Axles (Non-Steerable)

9.22. LIFT AXLES (STEERABLE), P. 21

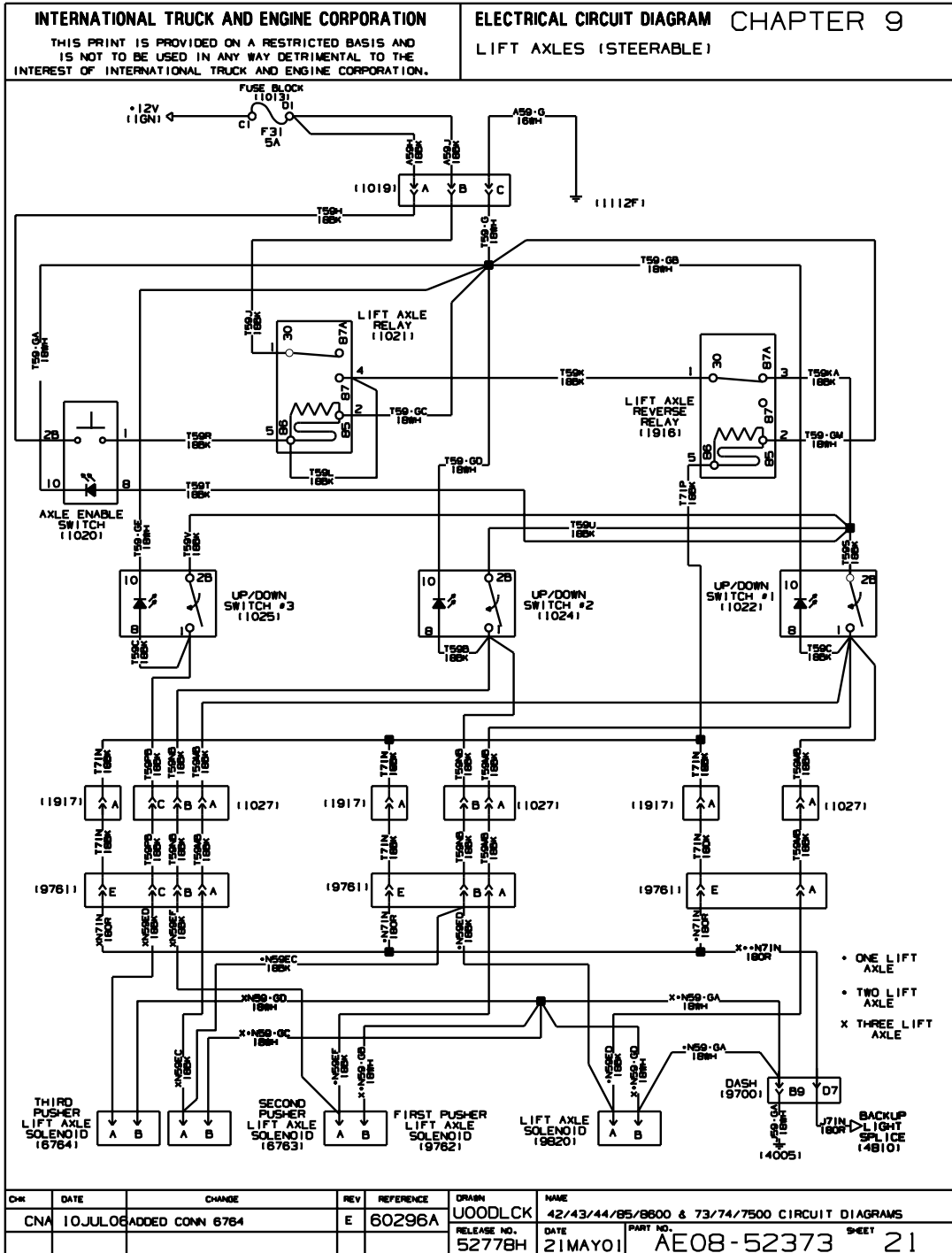


Figure 136 Lift Axles (Non-Steerable)

9.23. AIR ACTUATED PARK BRAKE, P. 22

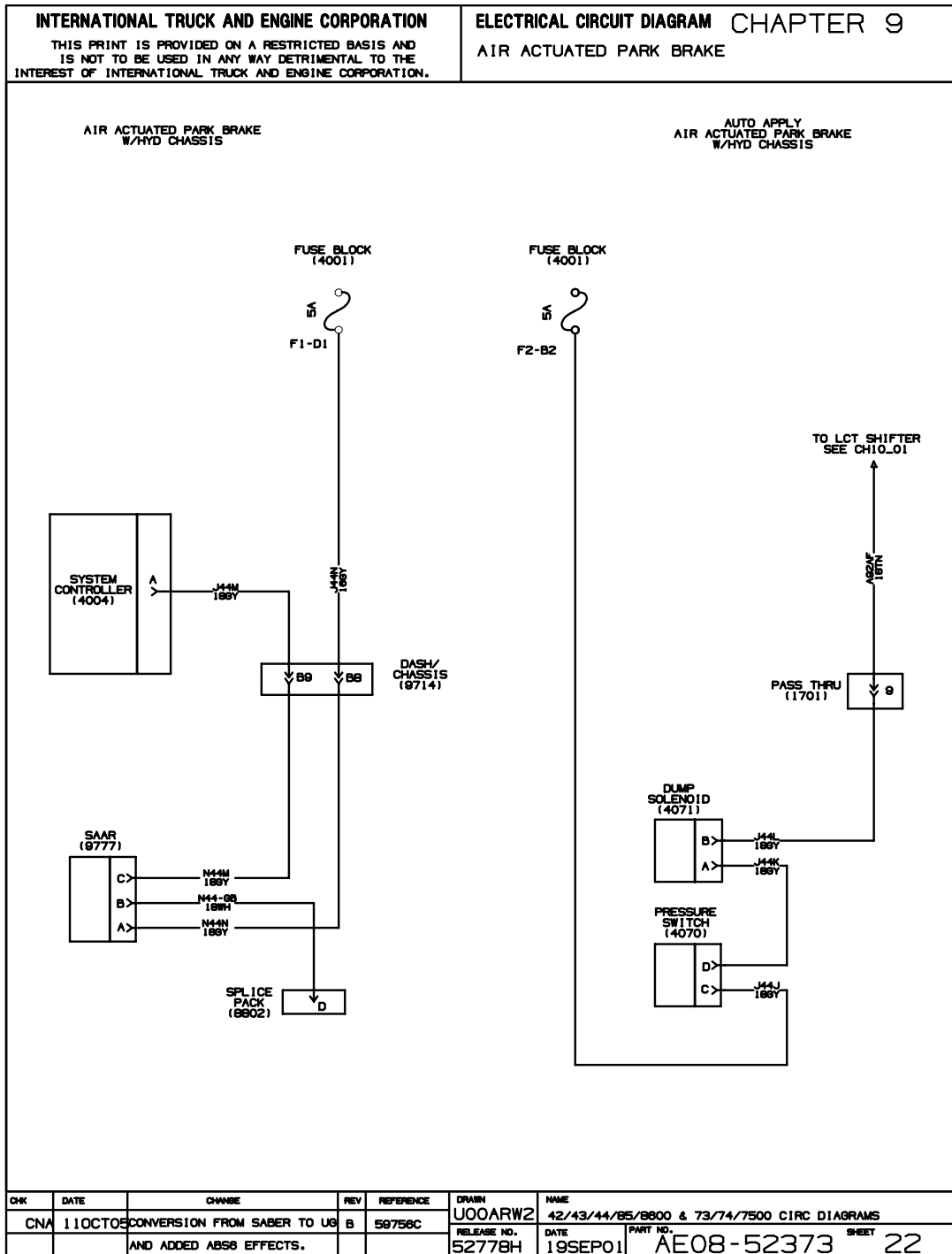


Figure 137 Air Actuated Park Brake

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

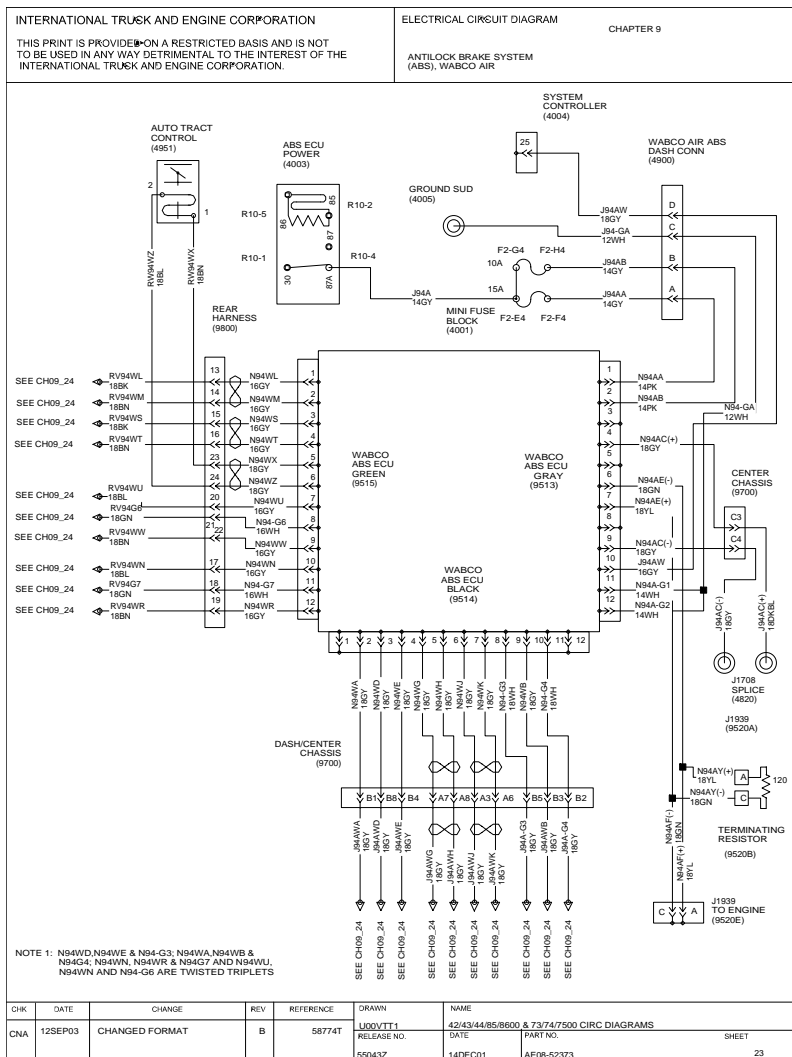


Figure 138 Antilock Brake System, WABCO Air

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

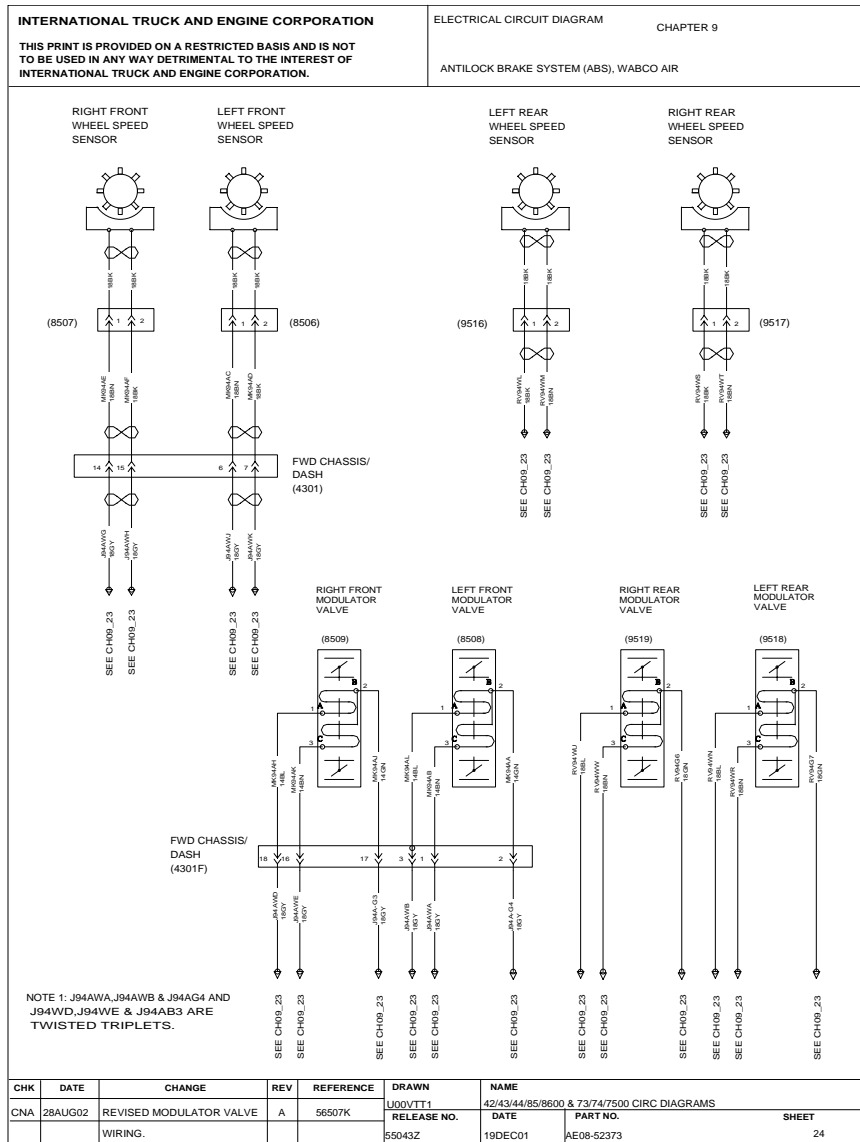


Figure 139 Antilock Brake System, WABCO Air

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							
CHR	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	
CNA	10JUL08	GEOMETRY REMOVED	D	60296A	WOODLCK	42/43/44/85/8600 & 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

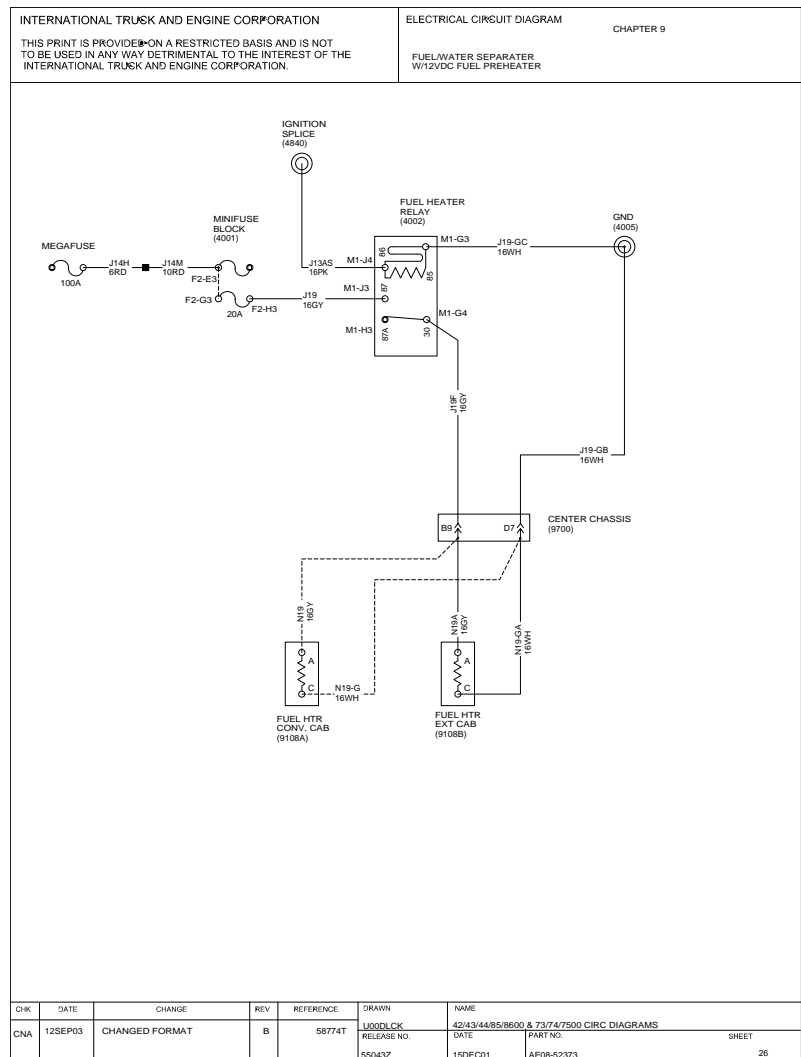


Figure 141 Fuel / Water Separator With 12VDC Fuel Preheater

9.28. ELECTRONIC TRAILER BRAKE ACCOMMODATION, P. 27

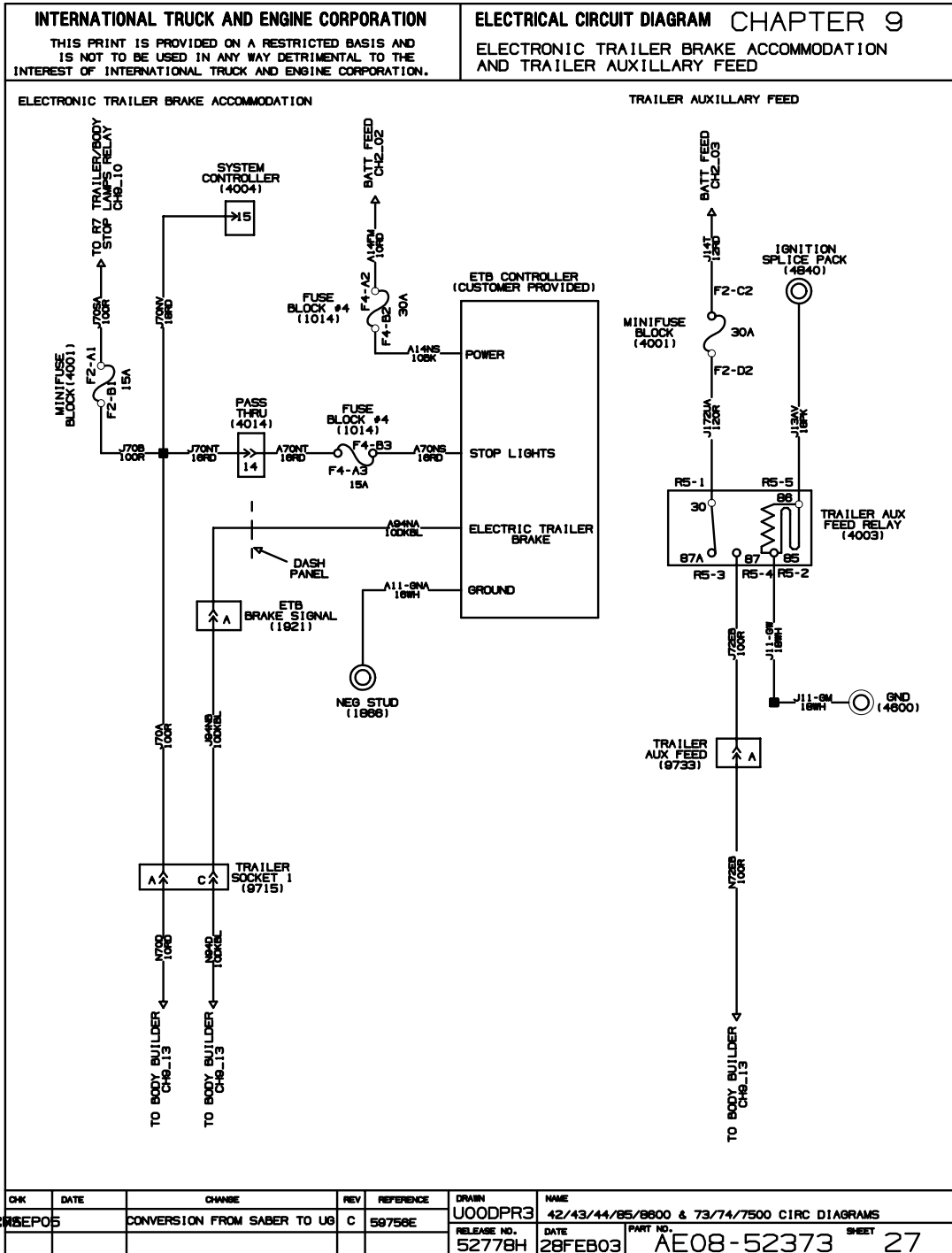


Figure 142 Electronic Trailer Brake Accommodation

9.29. LECTRASHIFT ACCOMMODATION, P. 28

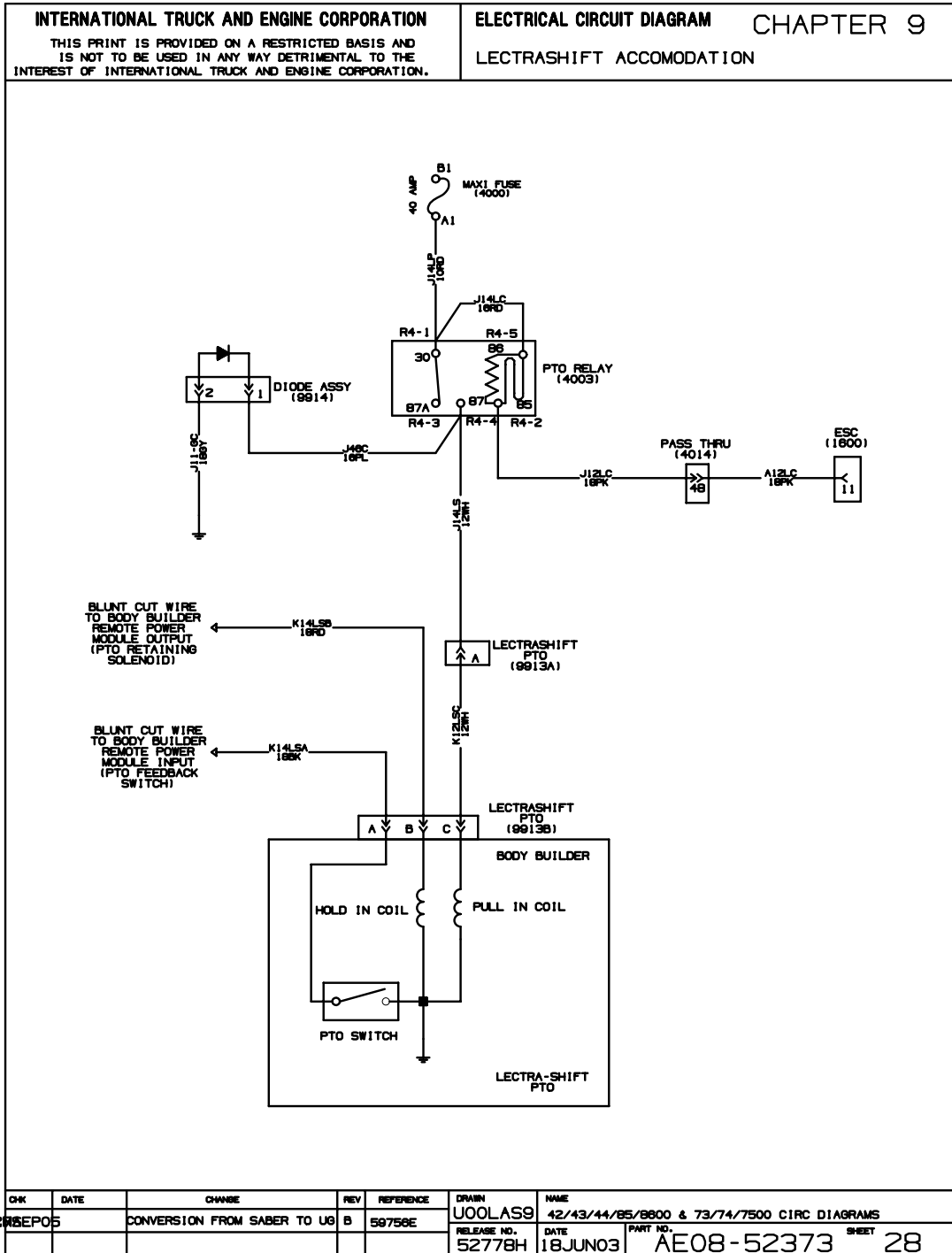


Figure 143 Lectrashift Accommodation

9.30. AUXILIARY 40 AMP CIRCUIT, P. 29

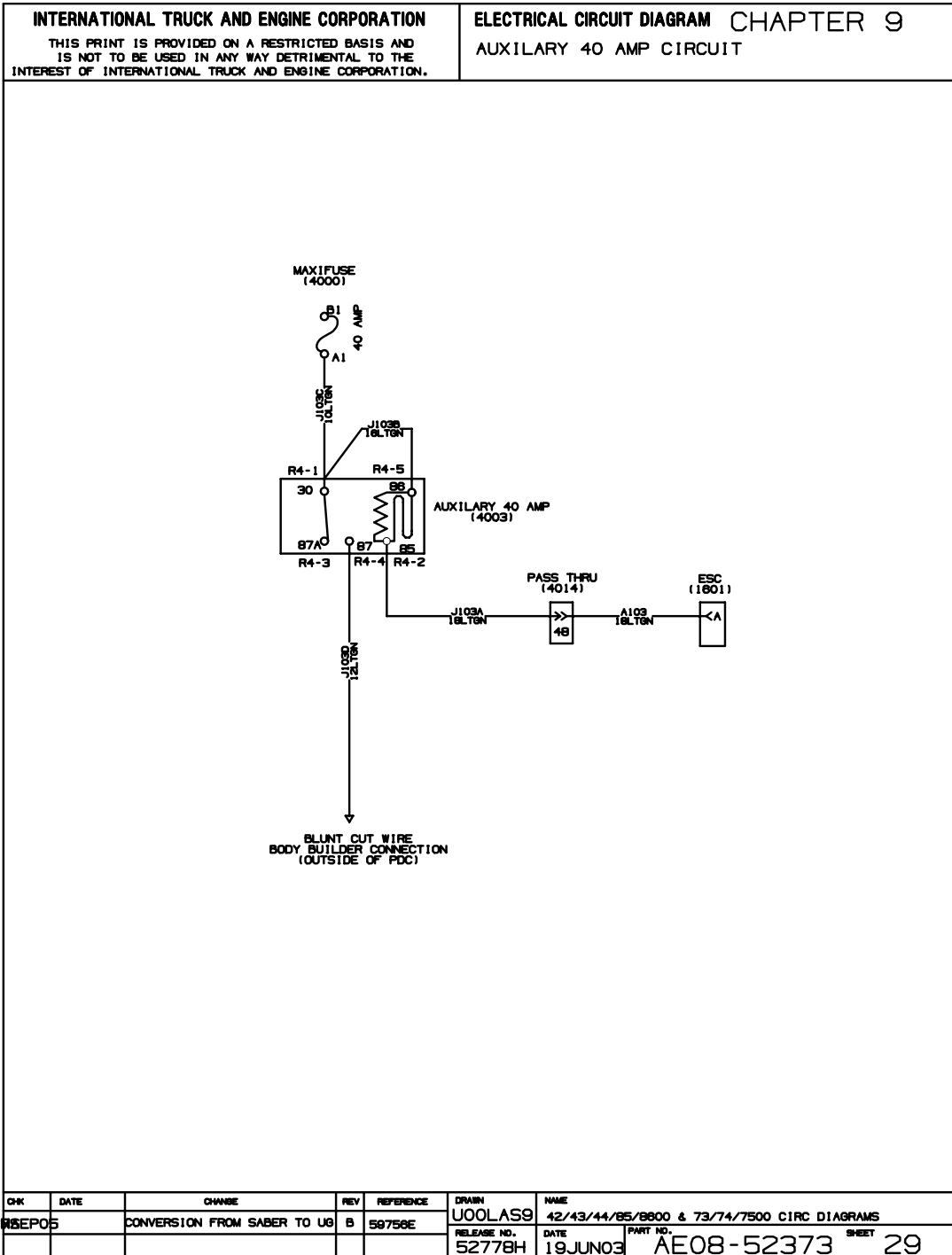


Figure 144 Auxiliary 40 Amp Circuit

9.31. HOURMETER, CUSTOMER MOUNTED PTO, P. 30

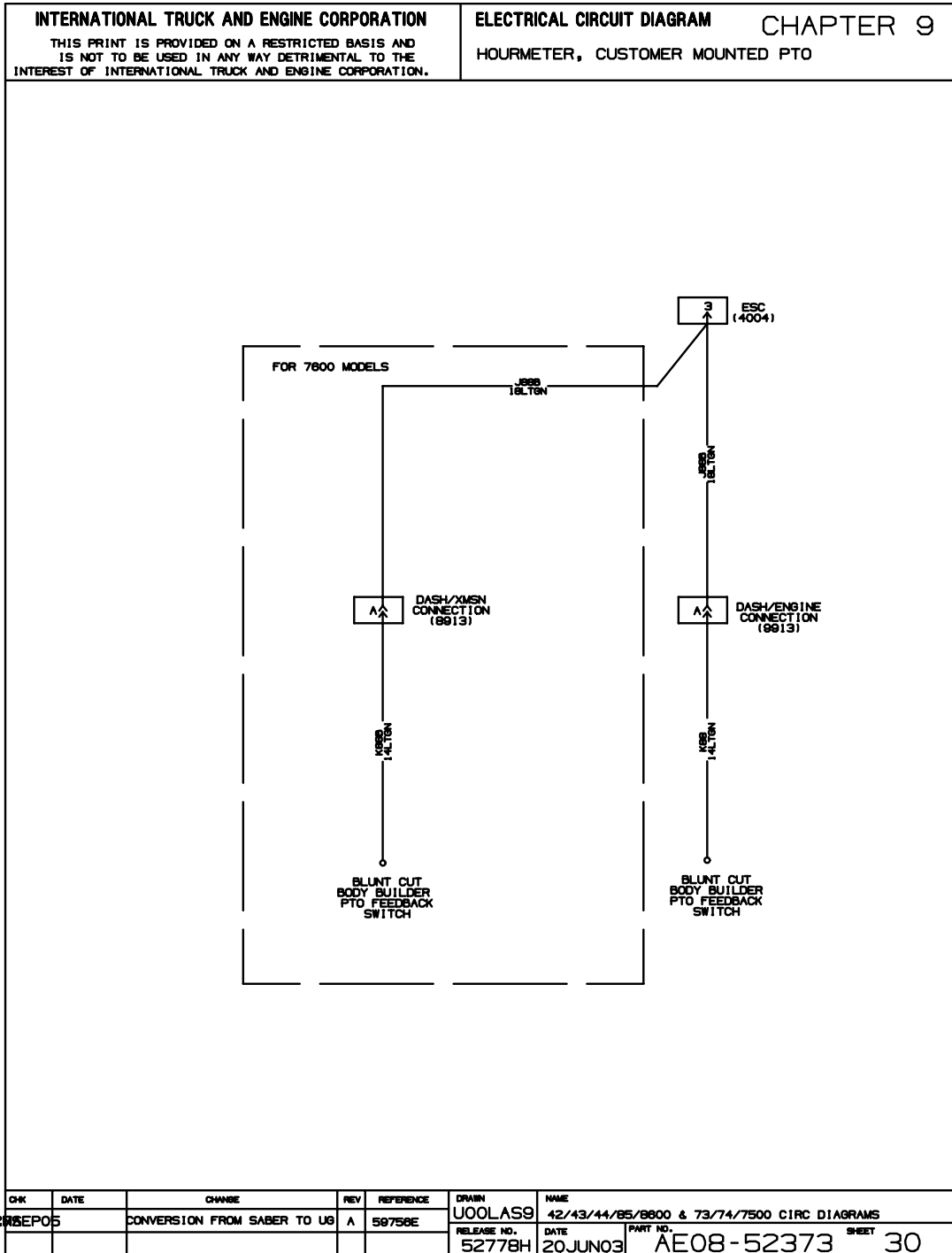


Figure 145 Hourmeter, Customer Mounted PTO

9.32. REMOTE START/ STOP, P. 31

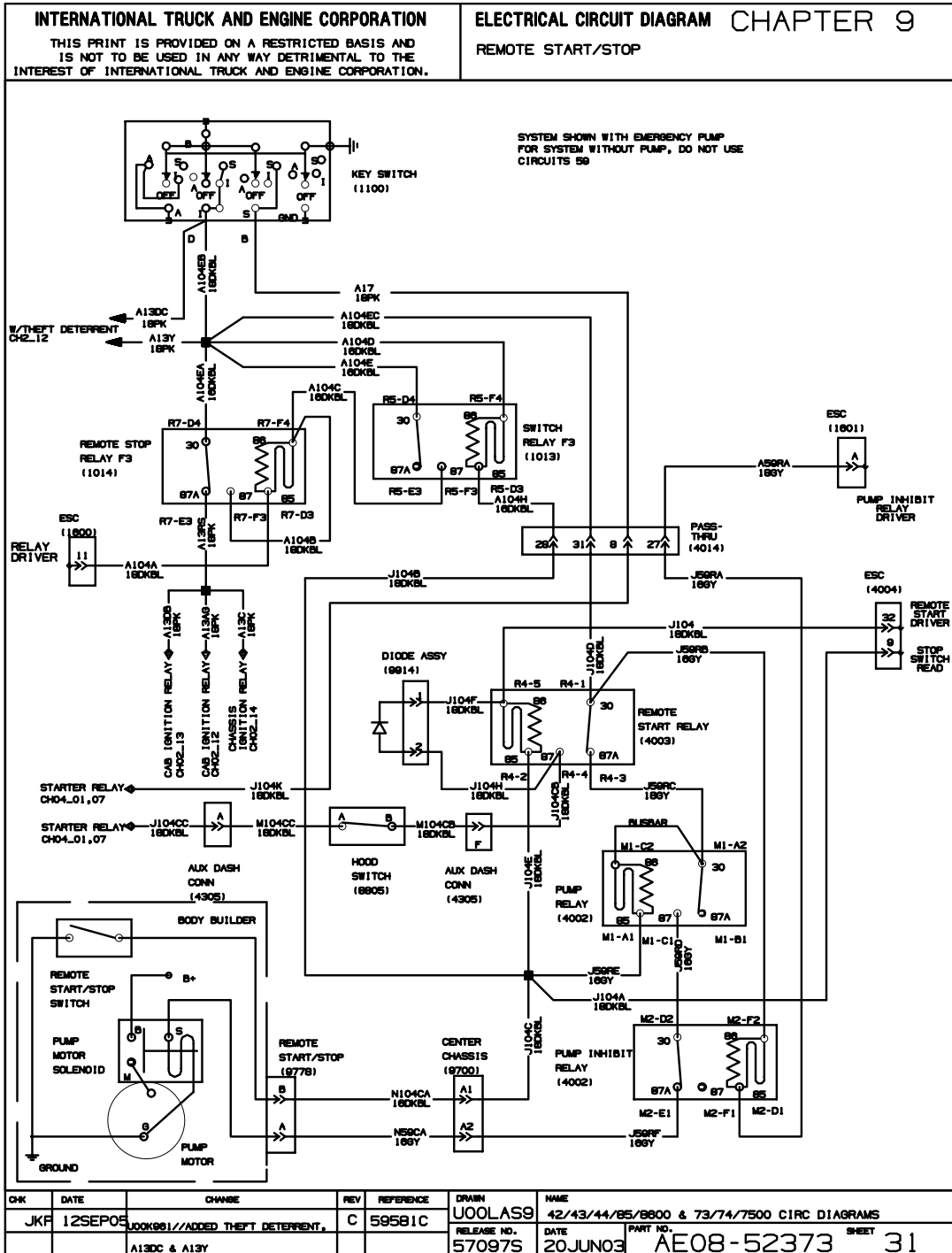


Figure 146 Remote Start/ Stop

9.33. LIFT AXLE WITH 14RAR, P. 32

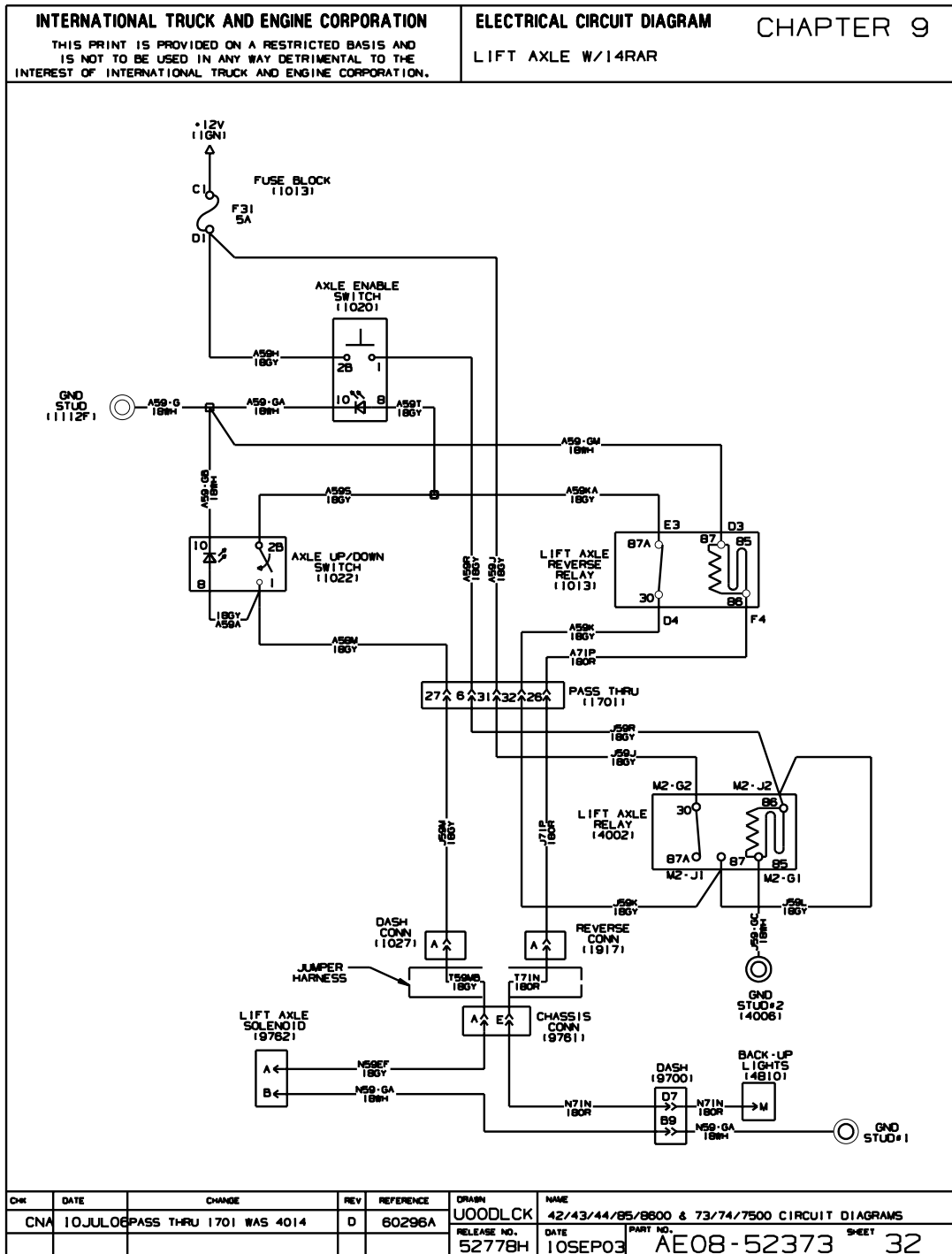


Figure 147 Lift Axle with 14RAR

9.34. LIFT GATE, P. 33

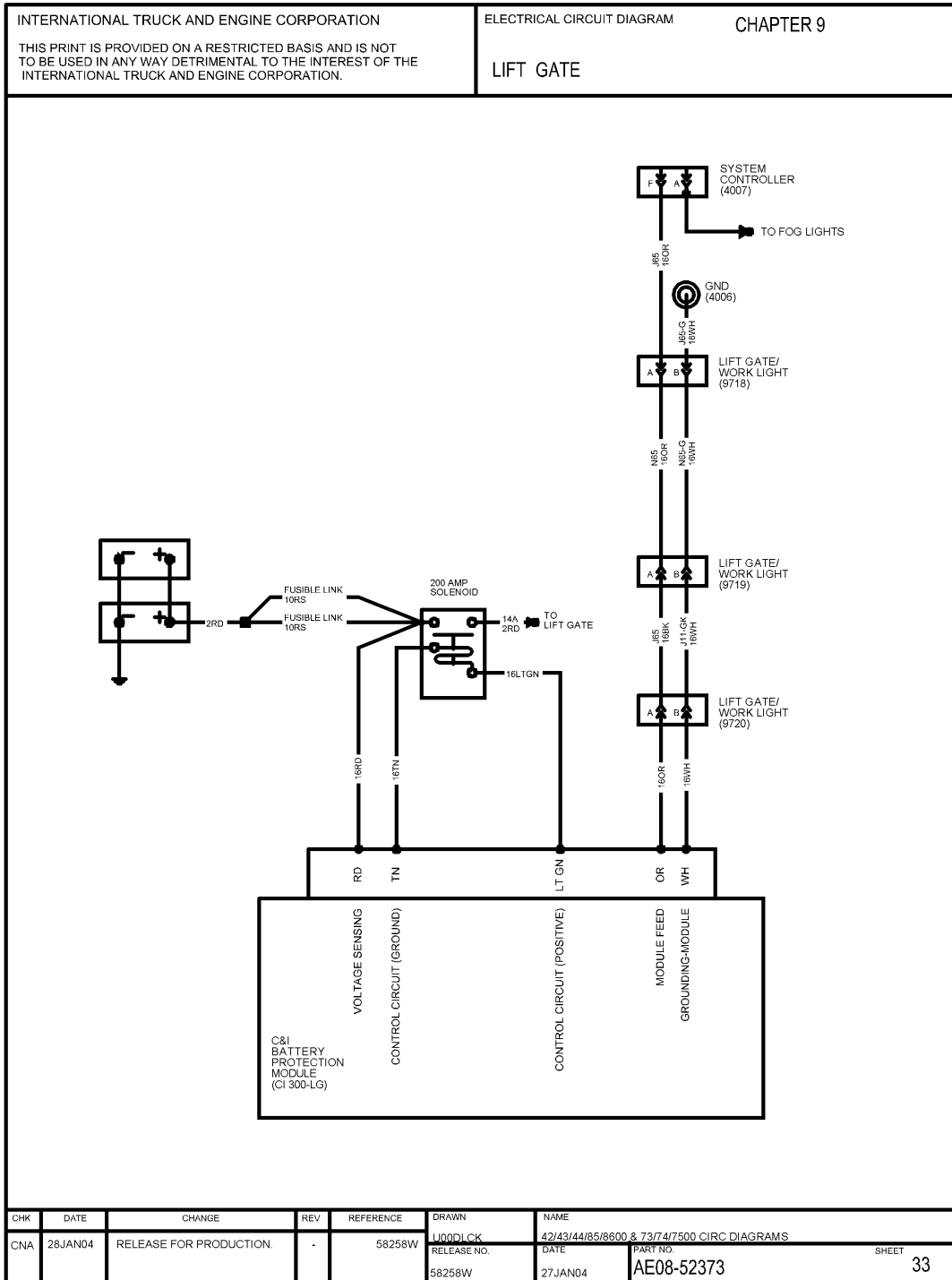


Figure 148 Lift Gate

9.35. LIFT AXLE MULTIPLEX, P. 34

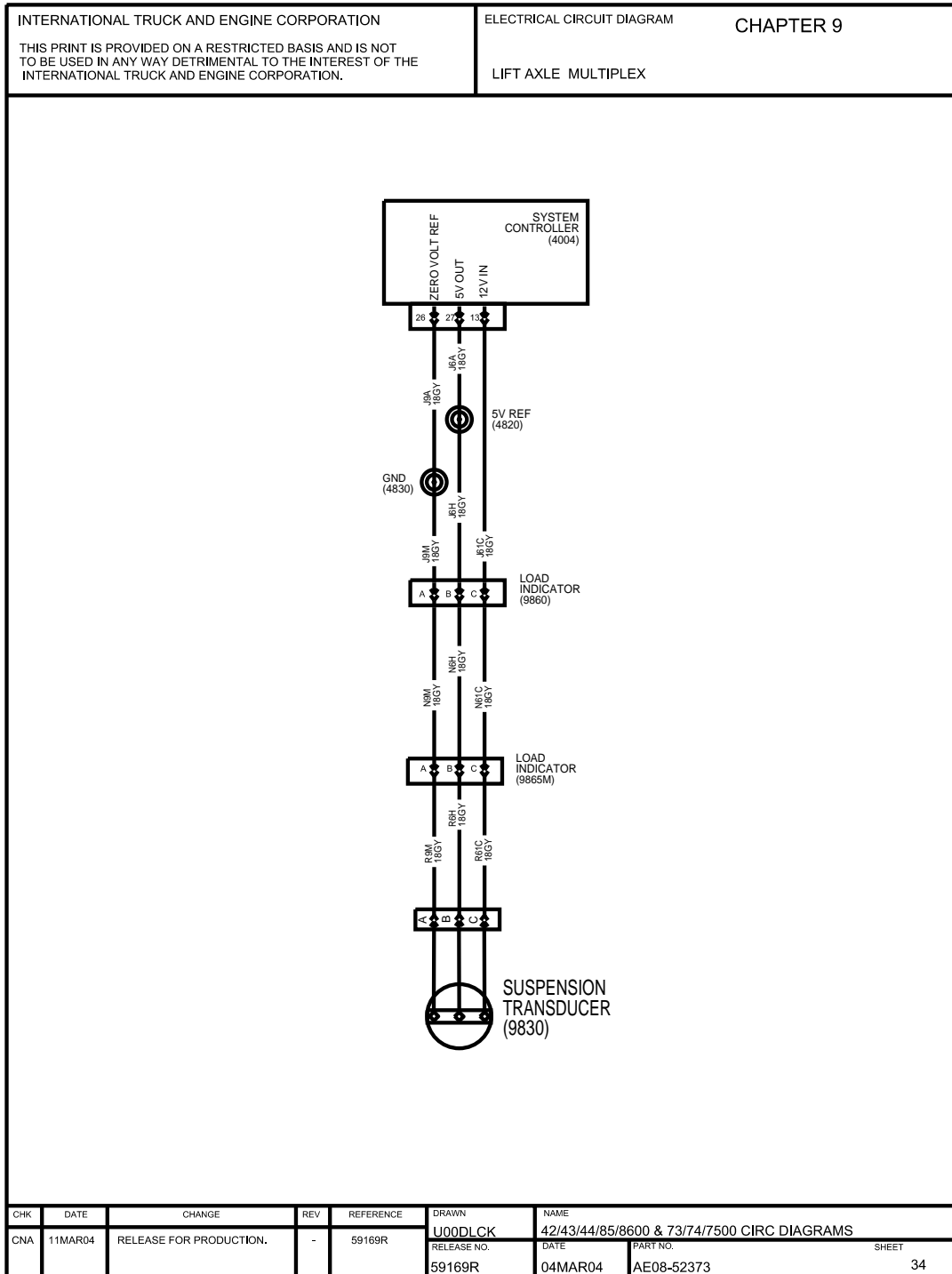


Figure 149 Lift Axle Multiplex

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

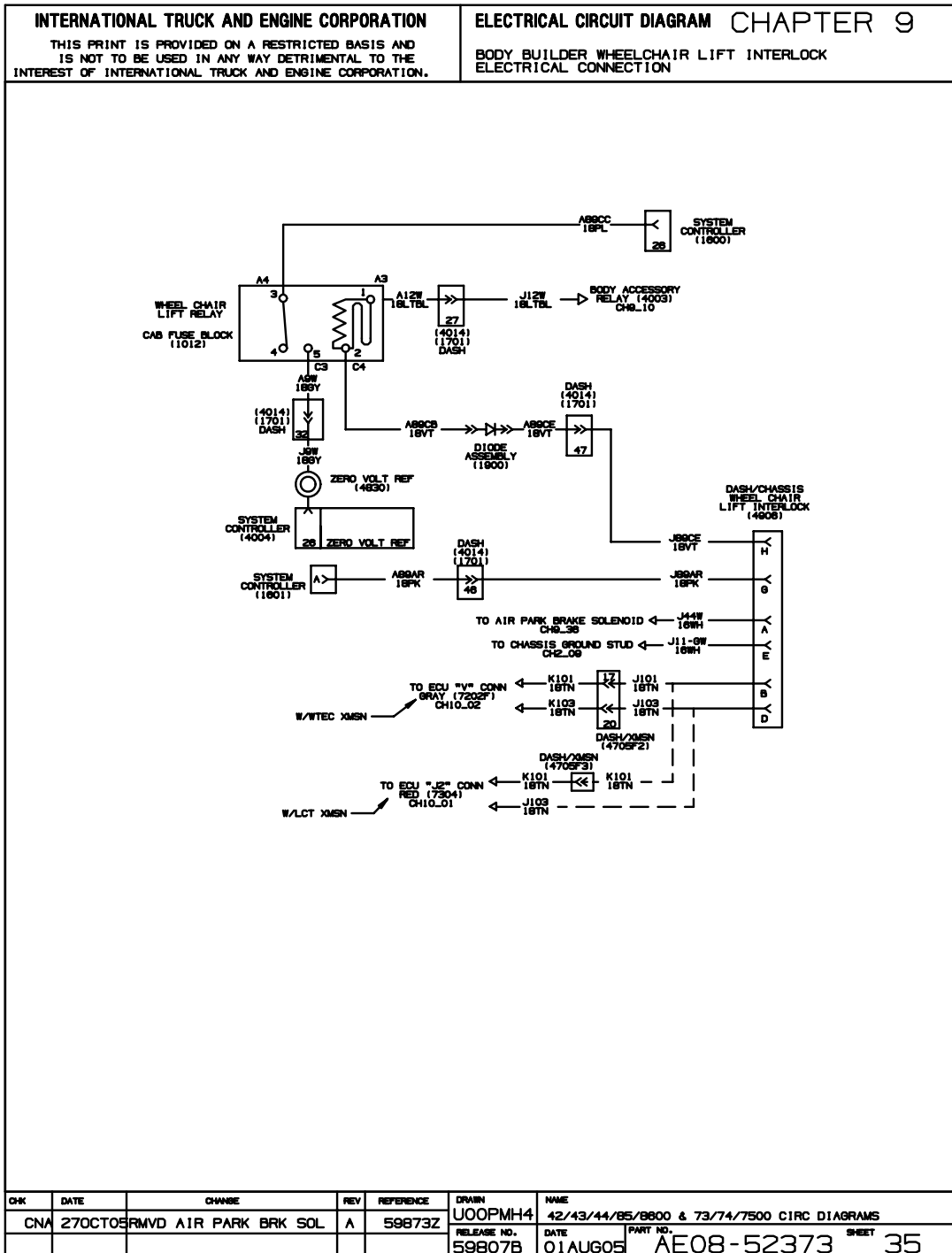


Figure 150 Body Builder Wheelchair Lift Interlock Electrical Connection

9.37. AIR PARK BRAKE INTERLOCK, P. 36

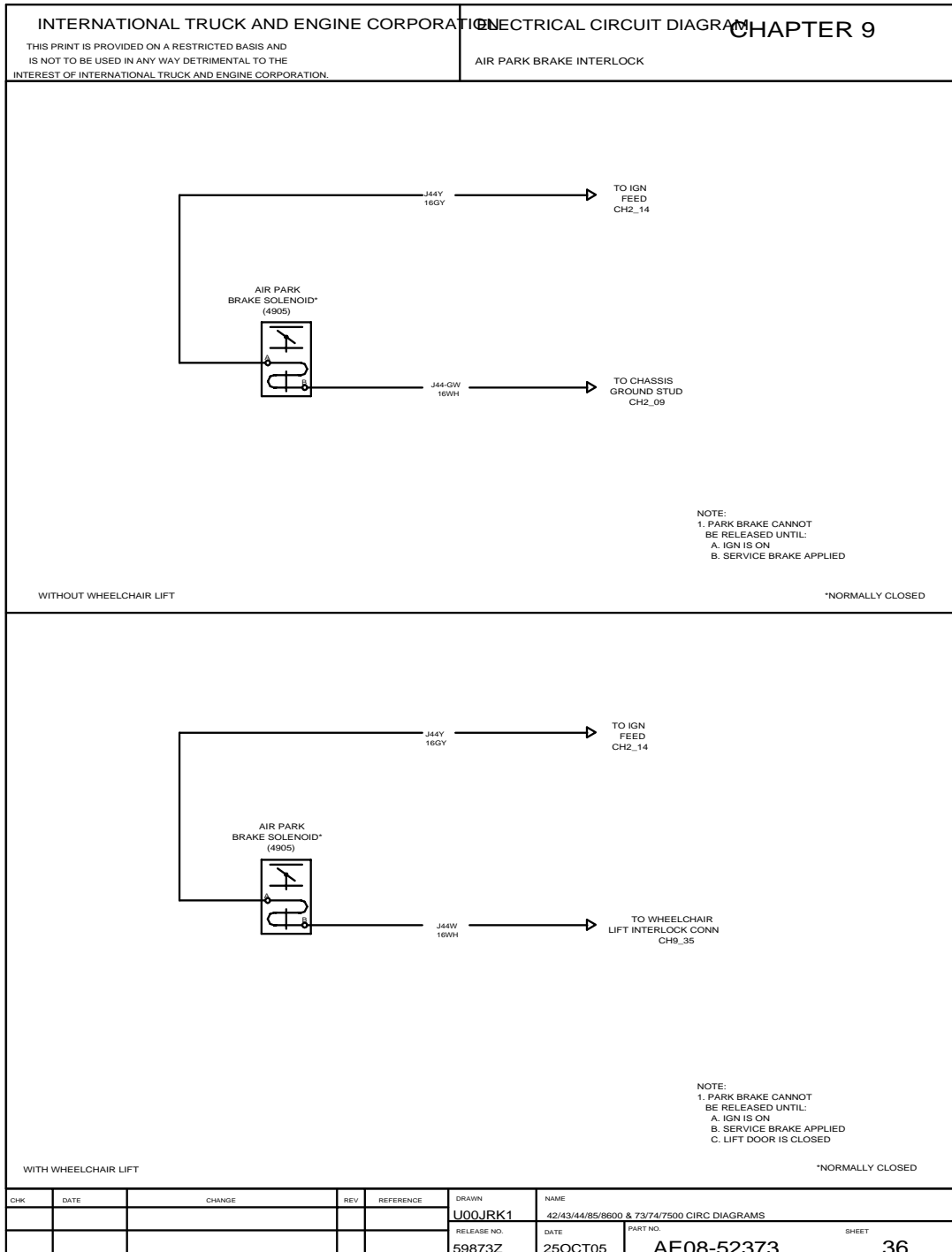


Figure 151 Air Park Brake Interlock

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

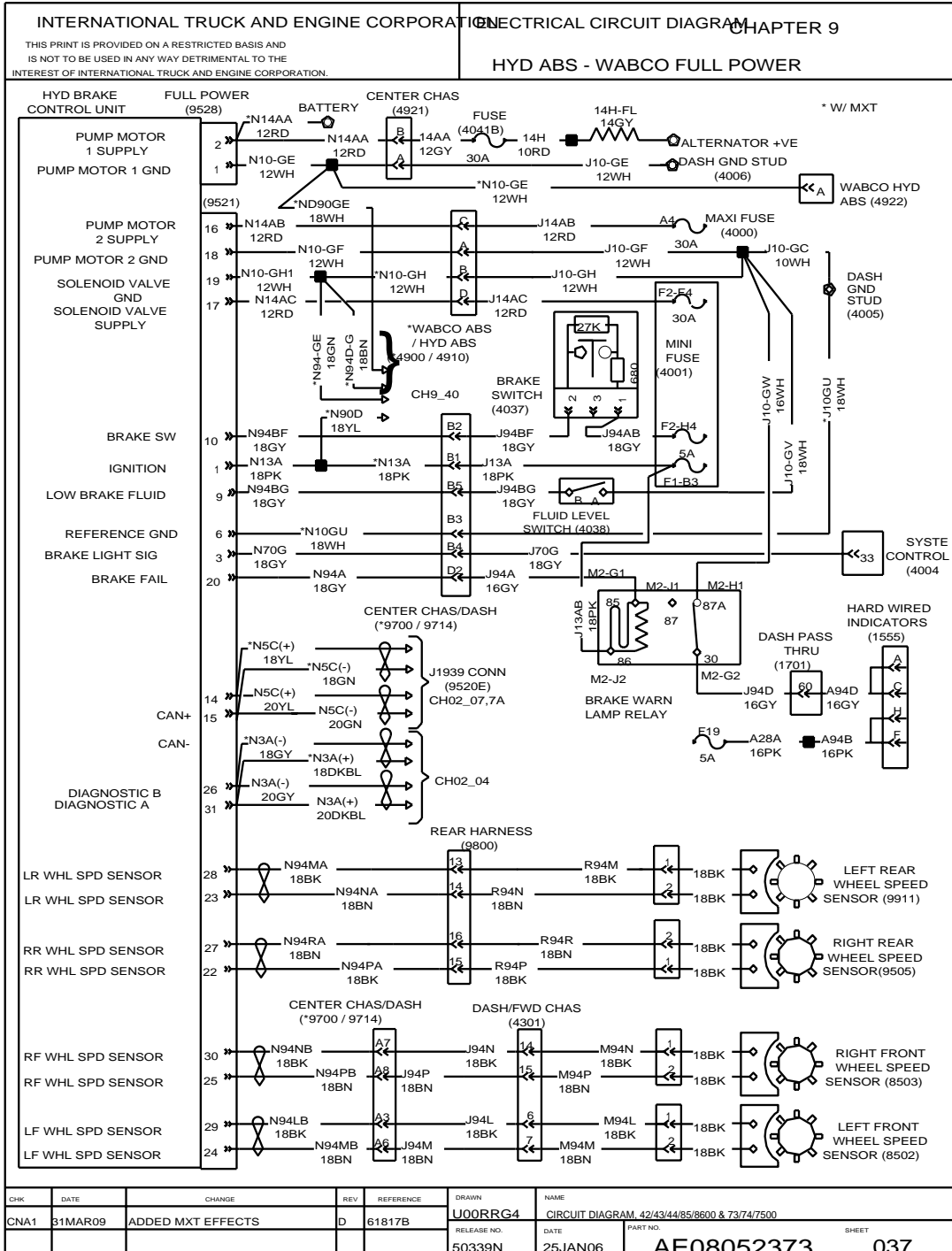


Figure 152 Hydraulic ABS — Wabco Full Power

9.39. CENTER PIN CIRCUIT, P. 38

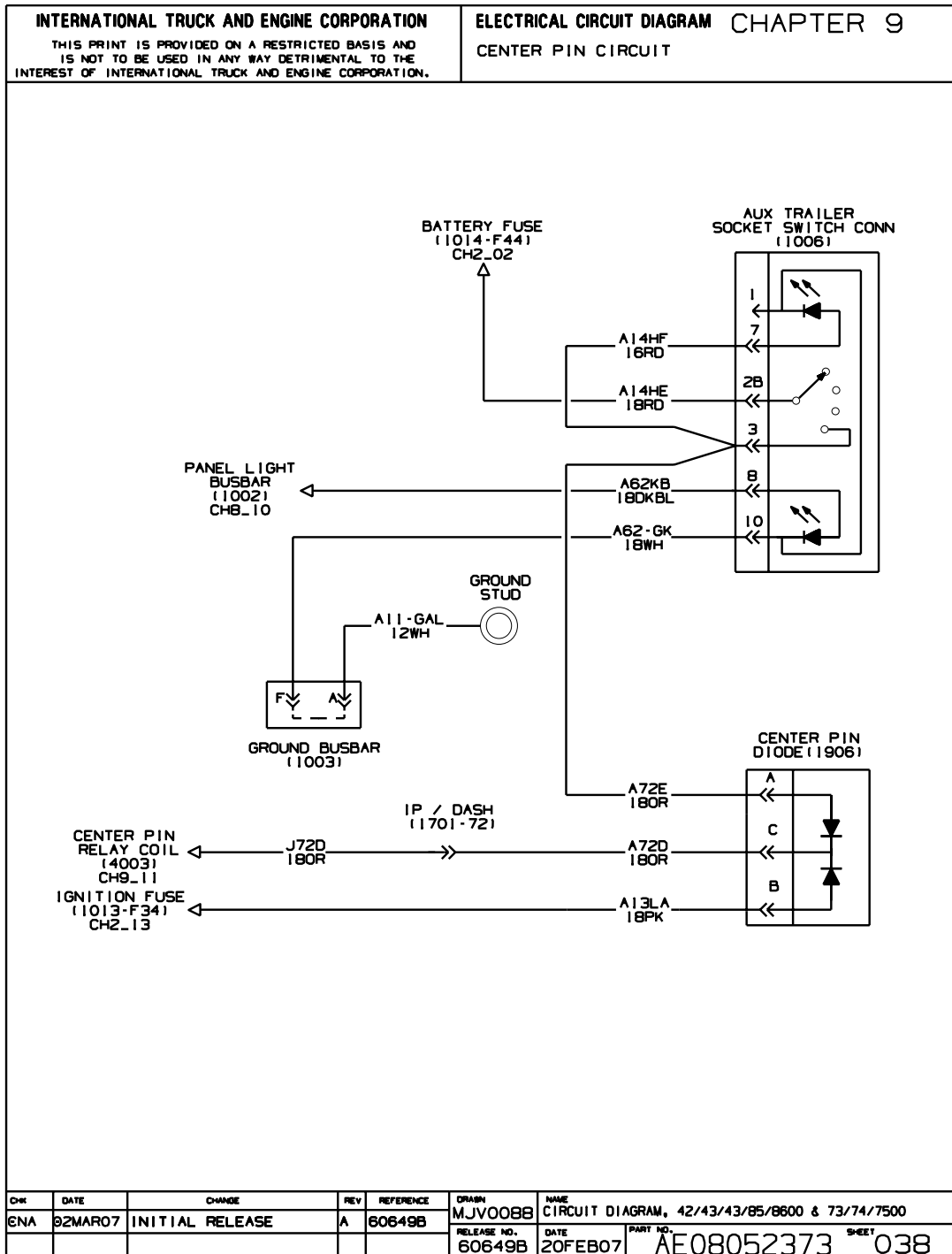


Figure 153 Center Pin Circuit

9.40. FIFTH WHEEL CIRCUIT, P. 39

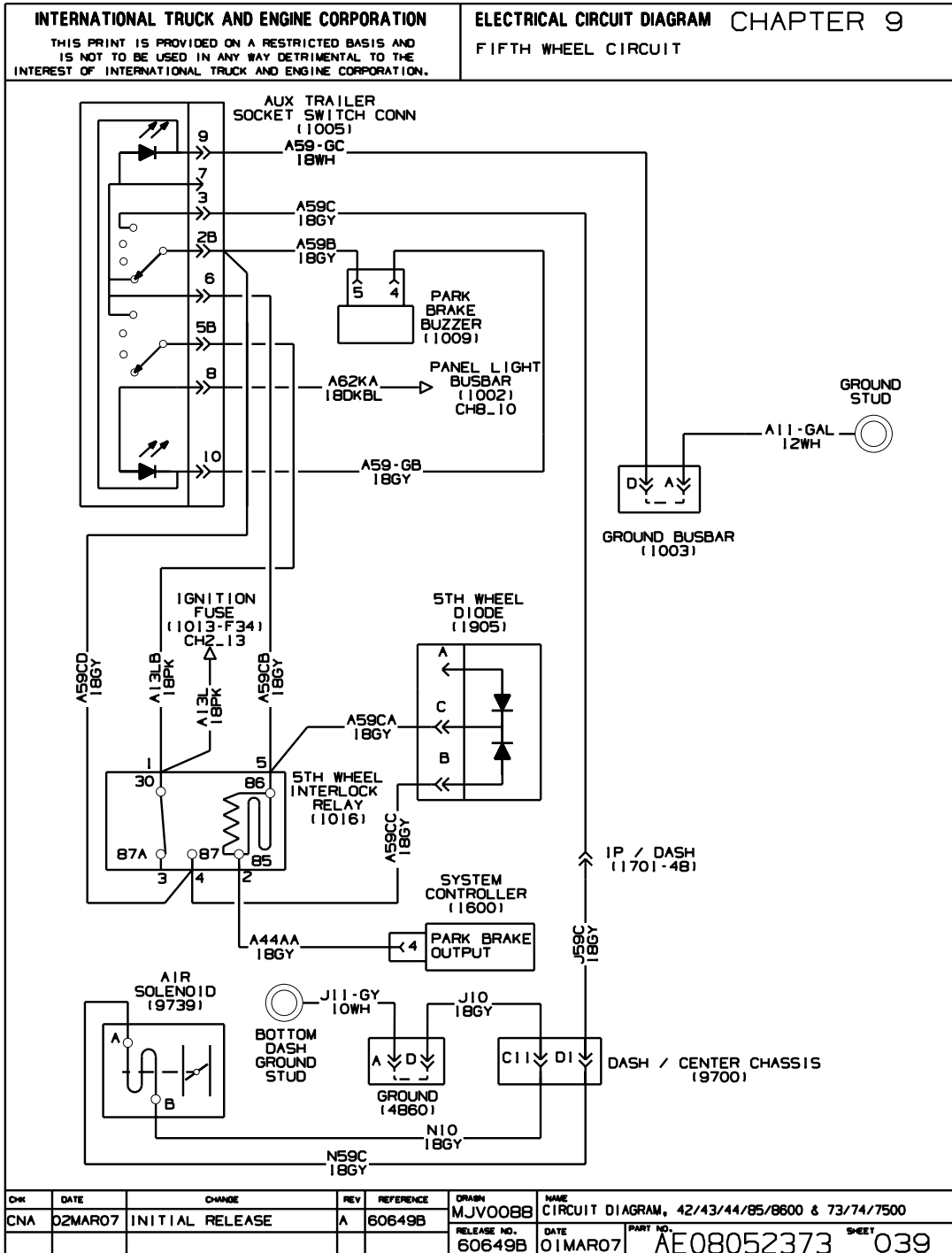


Figure 154 Fifth Wheel Circuit

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

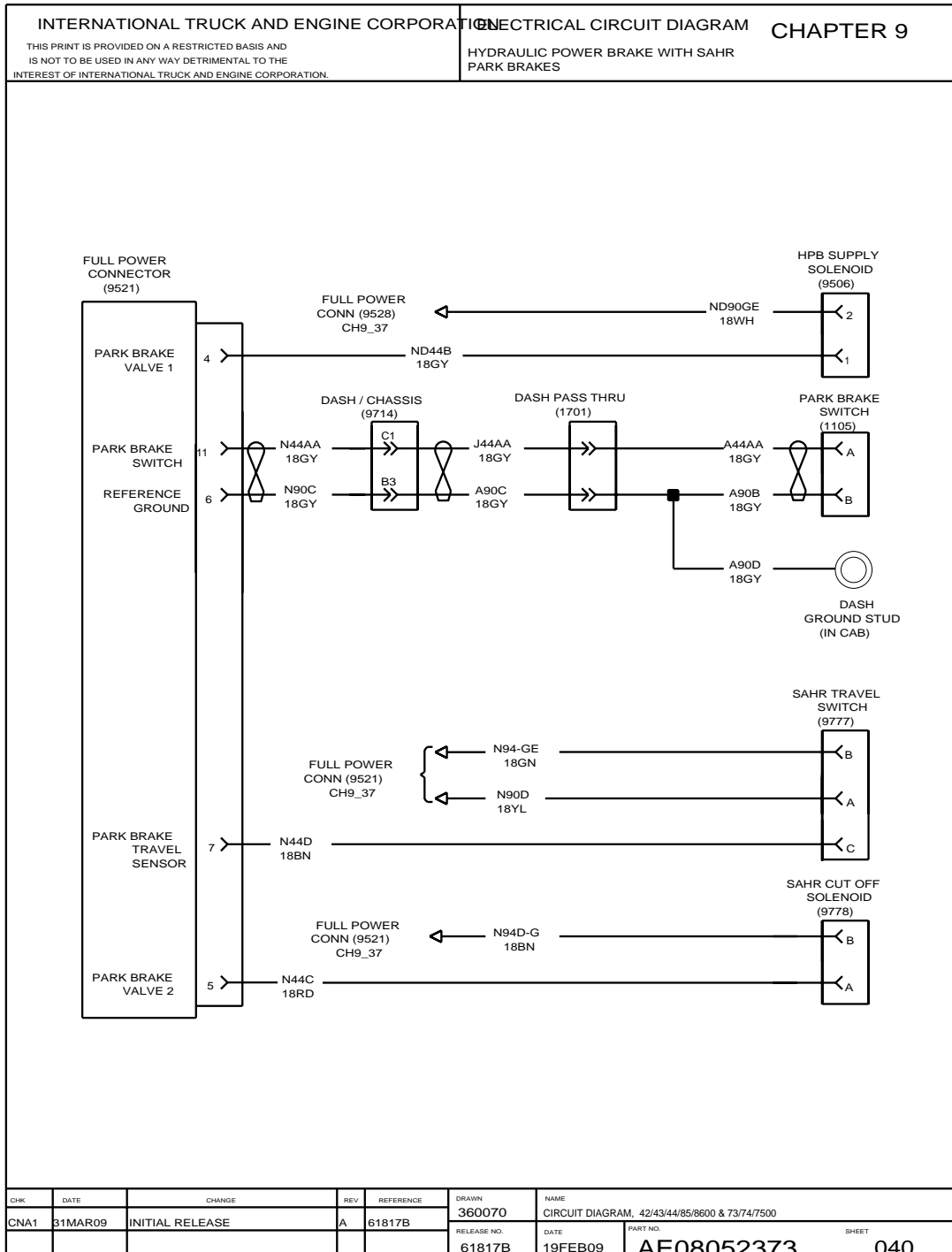


Figure 155 Hydraulic Power Brake with SAHR Park Brakes

9.42. AIR COMPRESSOR, P. 41

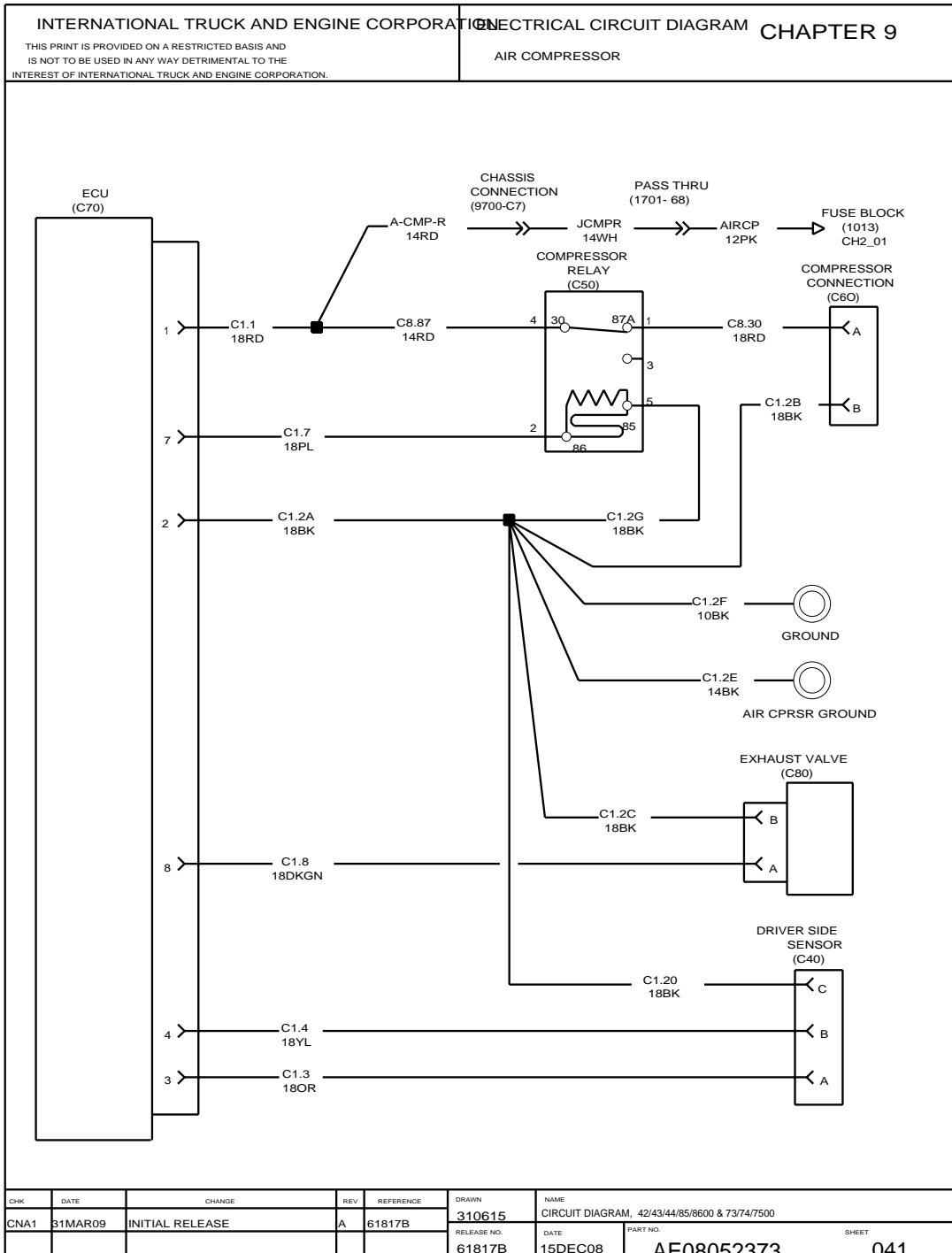


Figure 156 Air Compressor

9.43. ELECTRIC AIR COMPRESSOR, P. 42

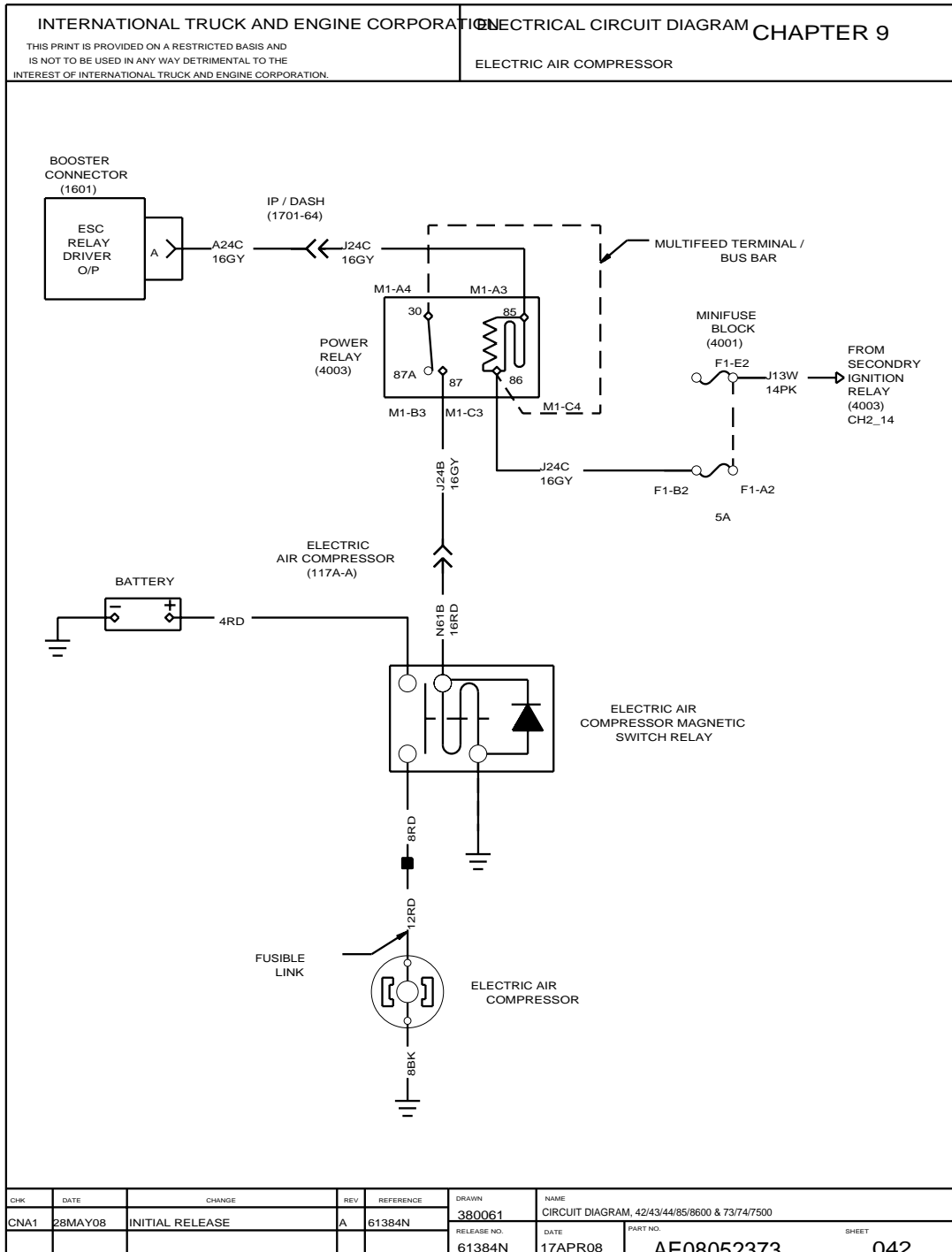


Figure 157 Electric Air Compressor

10. TRANSMISSIONS (CHAPTER 10)

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

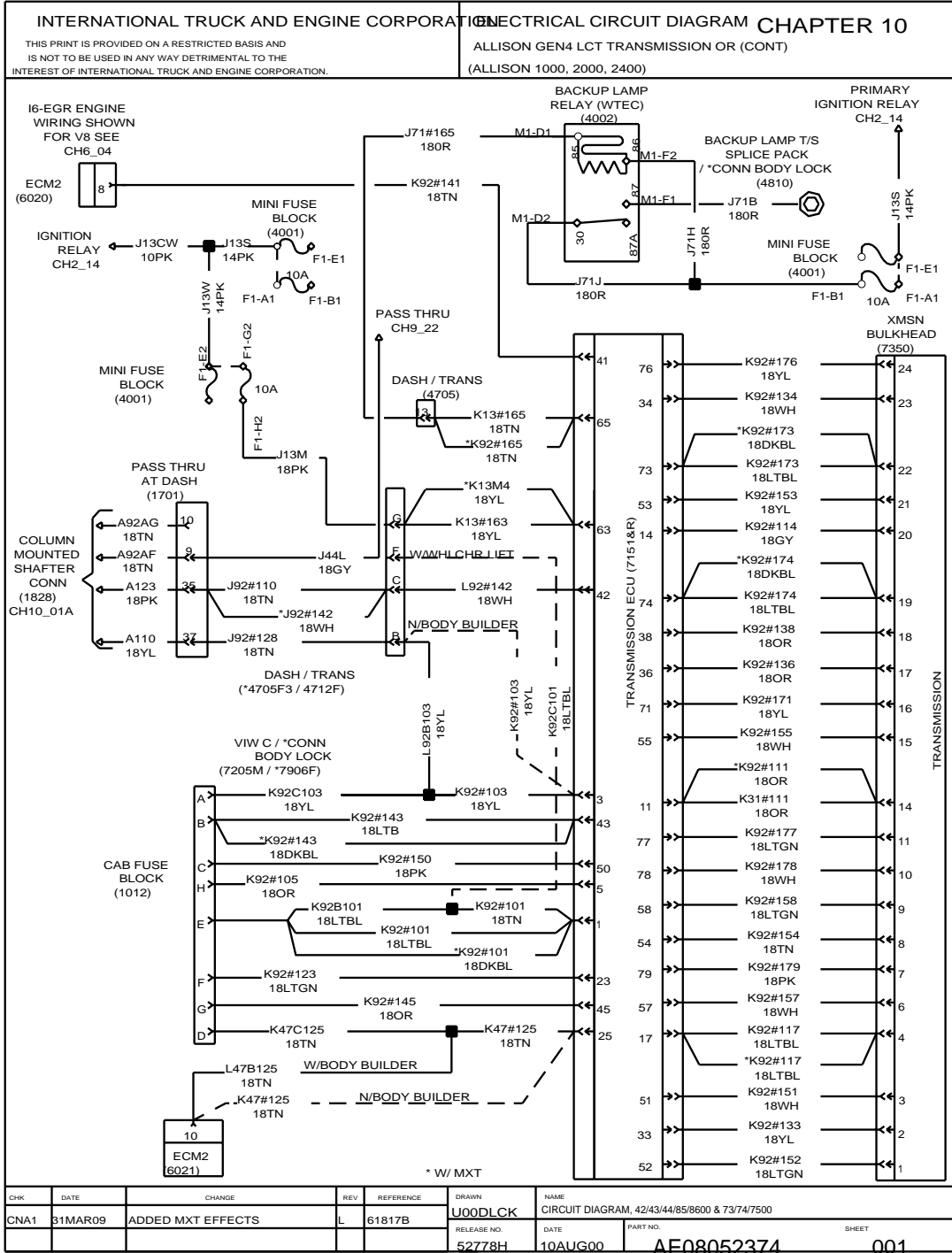


Figure 158 Allison GEN4 LCT Transmission or Allison 1000, 2000, 2400

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

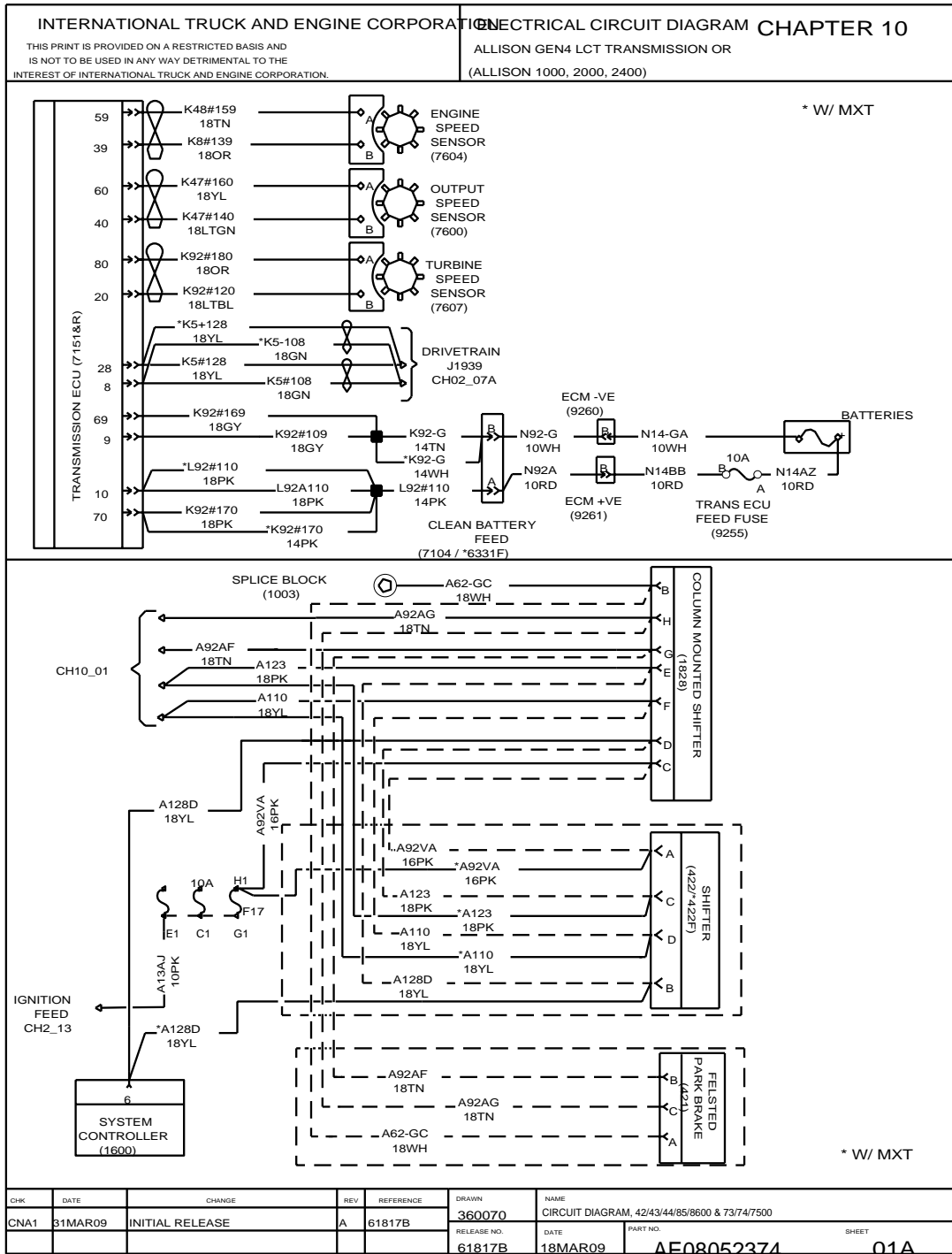


Figure 159 Allison GEN4 LCT Transmission or Allison 1000, 2000, 2400

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

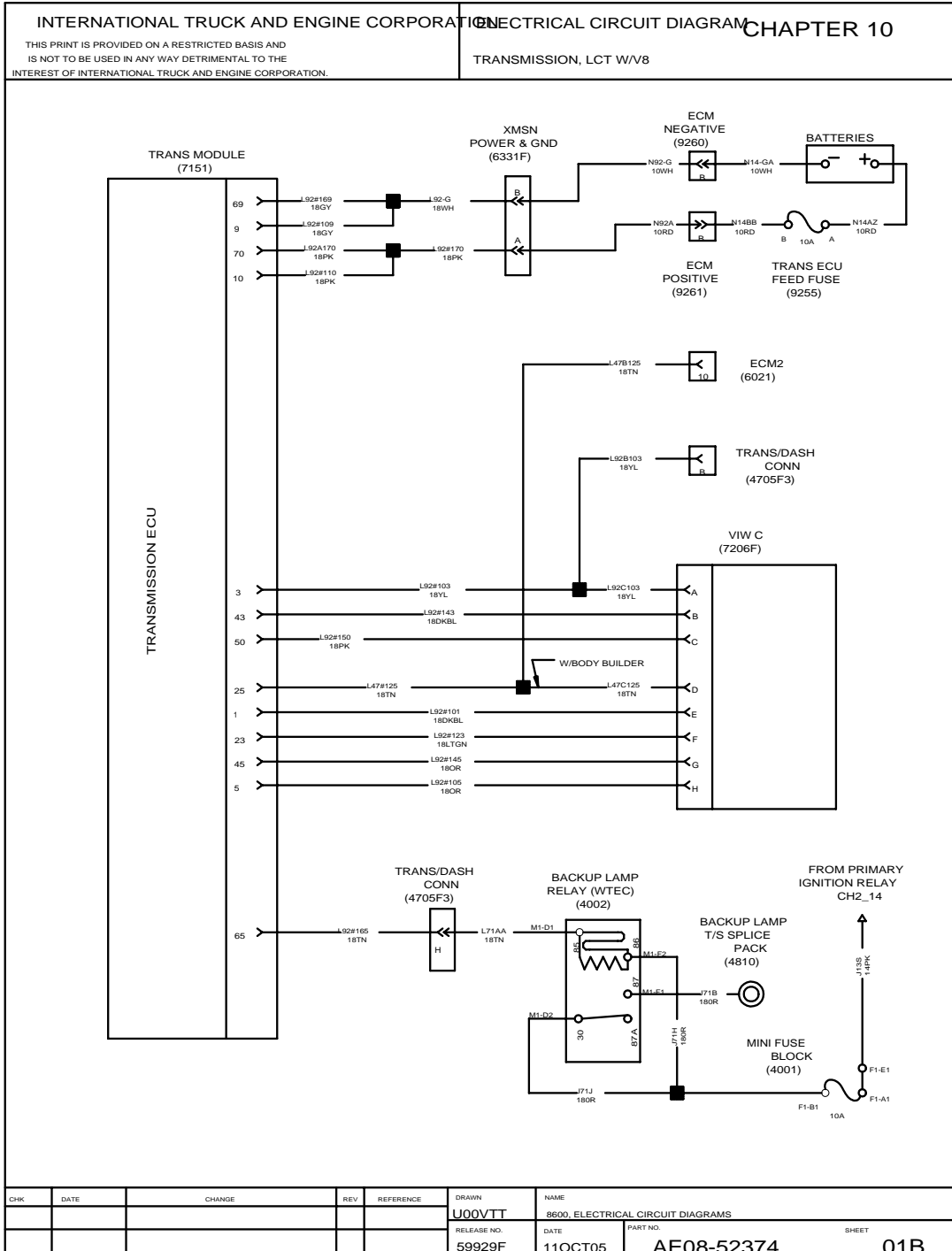


Figure 160 Transmission, LCT with V8

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

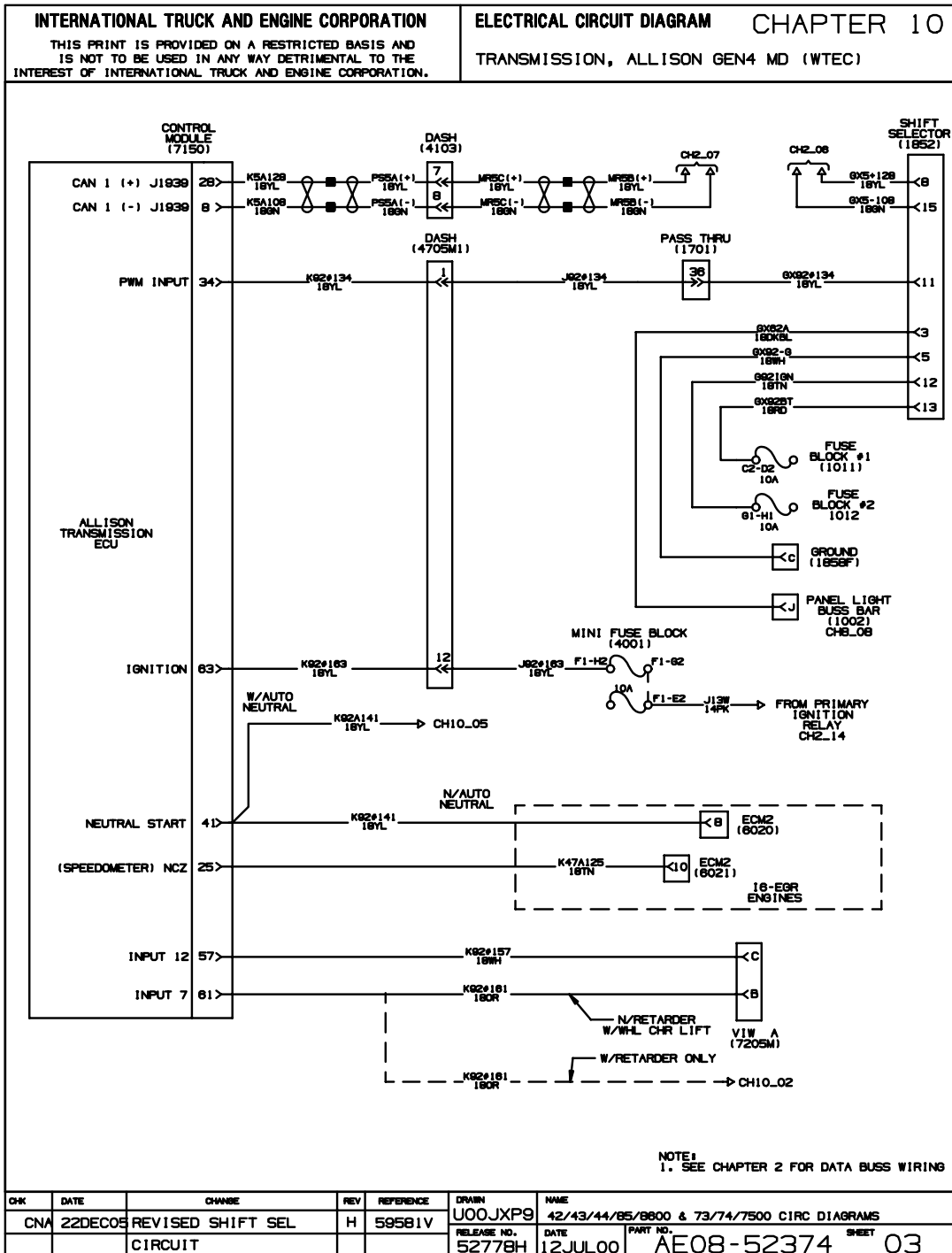


Figure 162 Allison MD Transmission (WTEC)

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

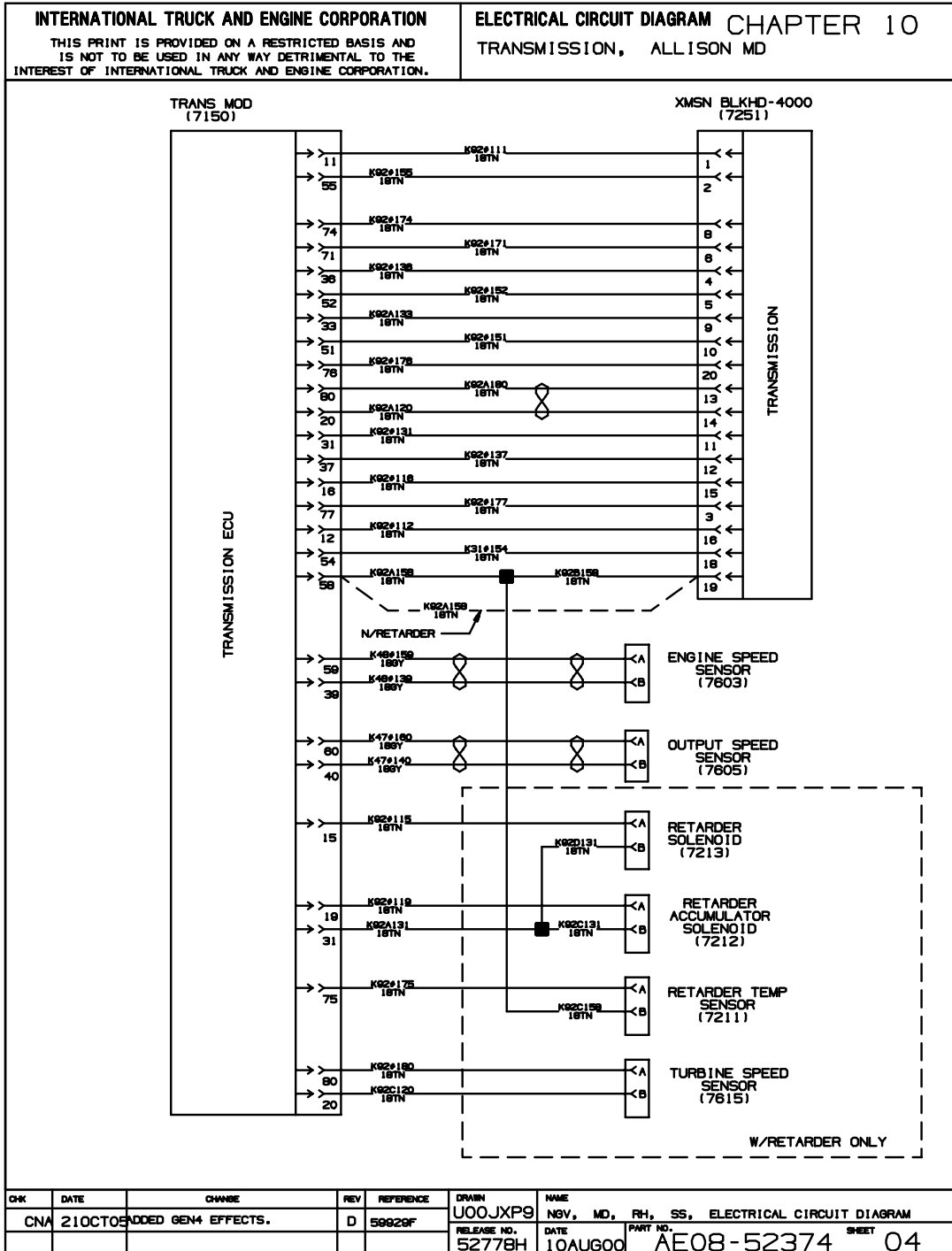


Figure 163 Allison MD Transmission (Cont.)

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

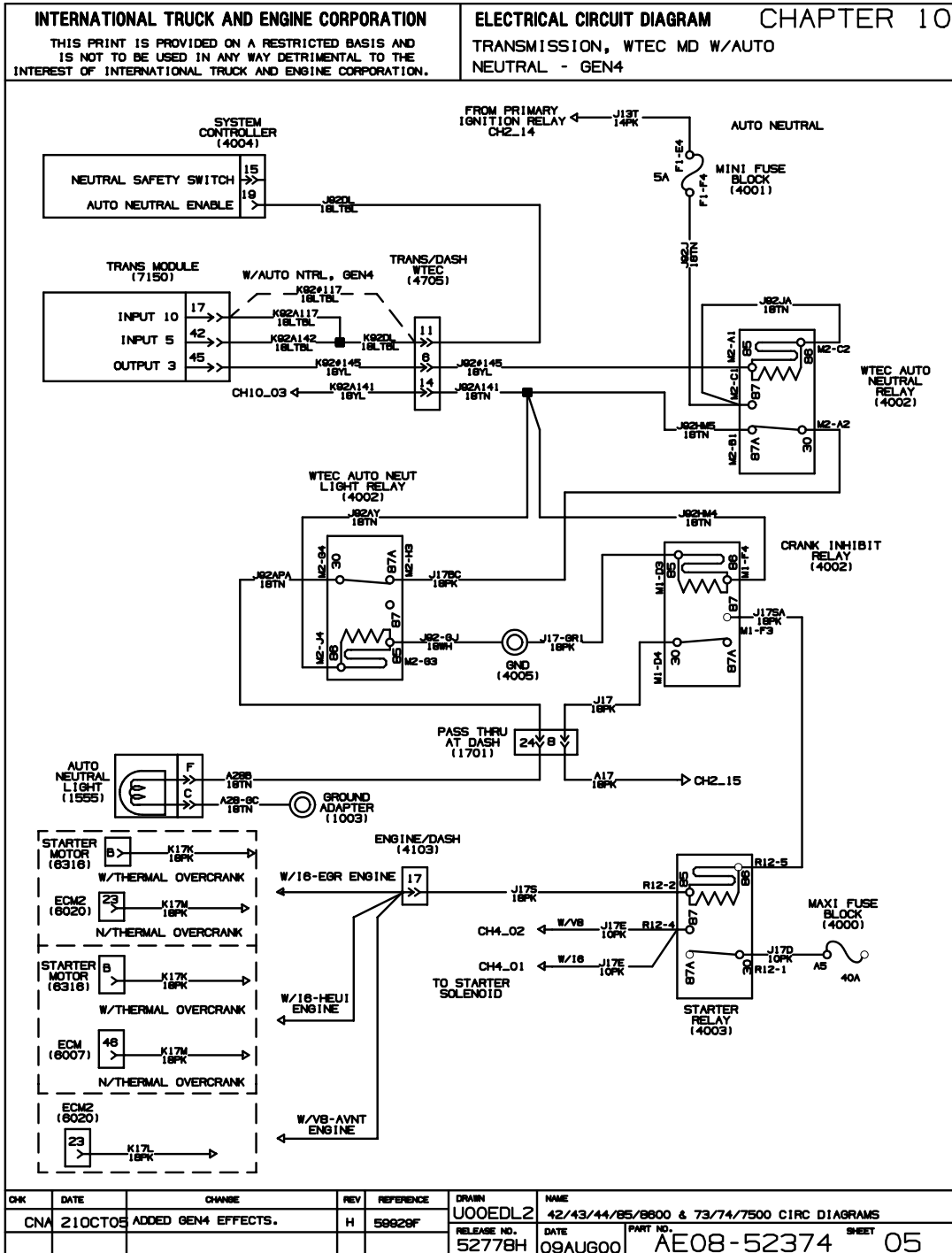


Figure 164 Transmission, WTEC MD W/Auto Neutral

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

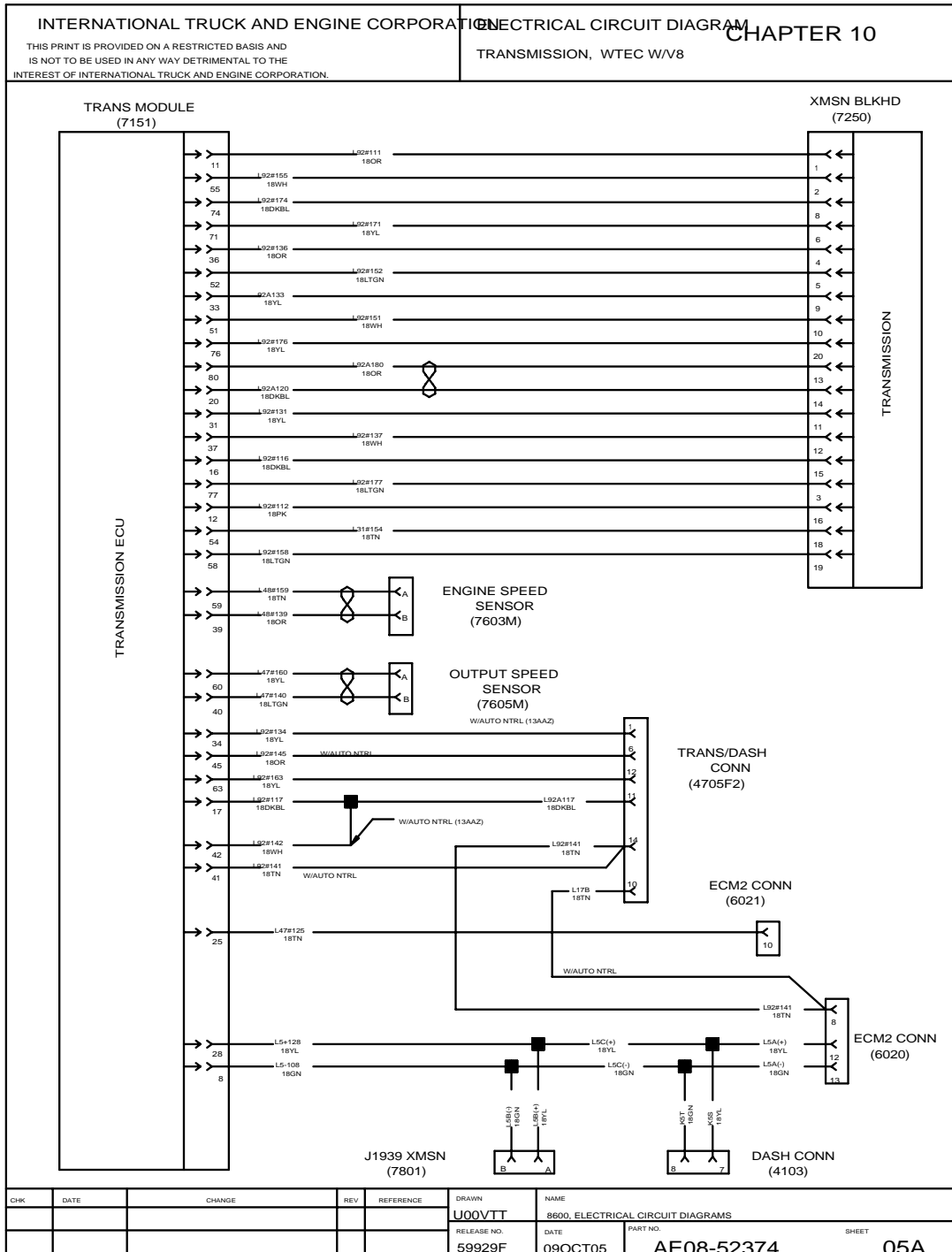


Figure 165 Transmission, WTEC with V8

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

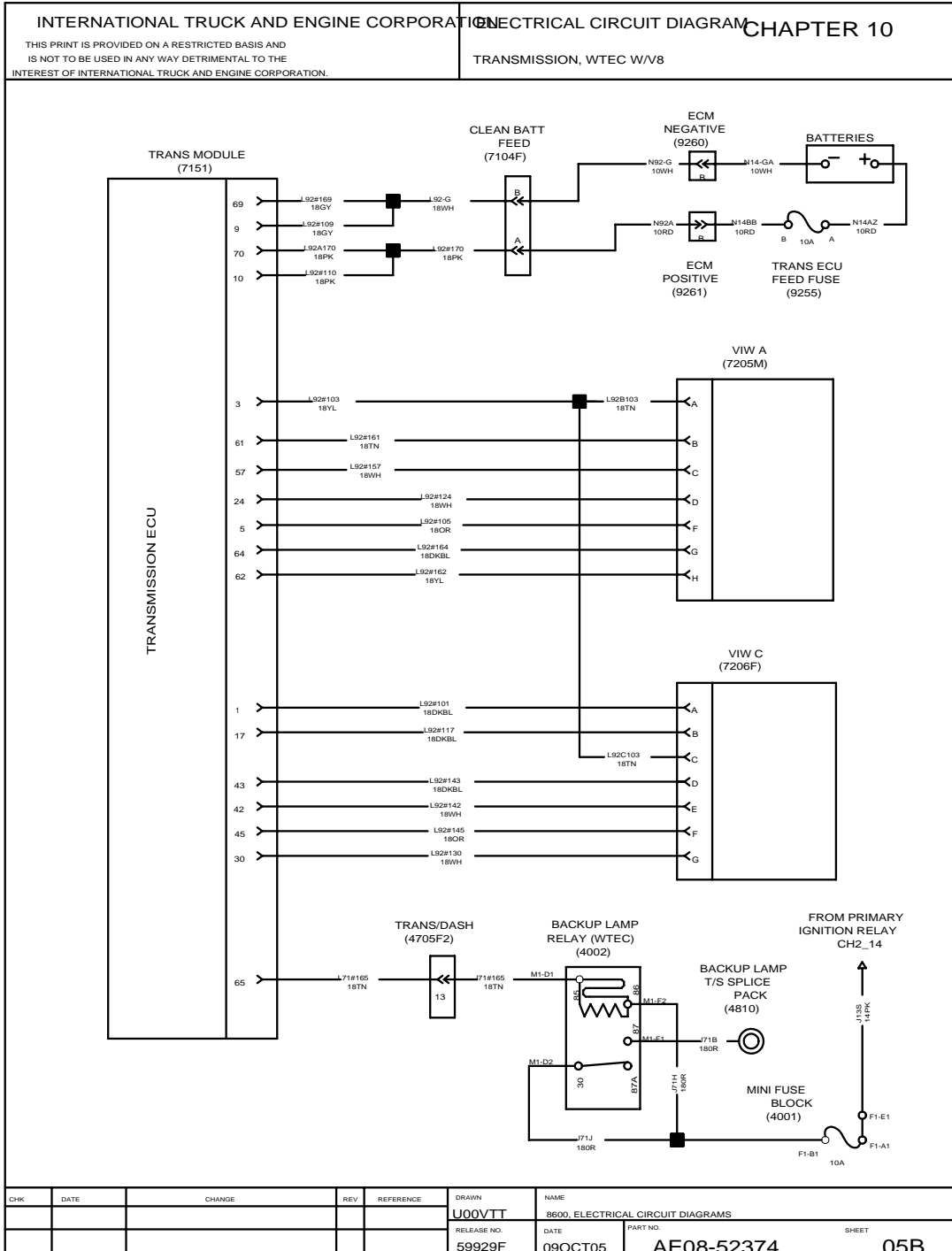


Figure 166 Transmission, WTEC with V8

10.10. EATON AUTOSHIFT TRANSMISSION, P. 6

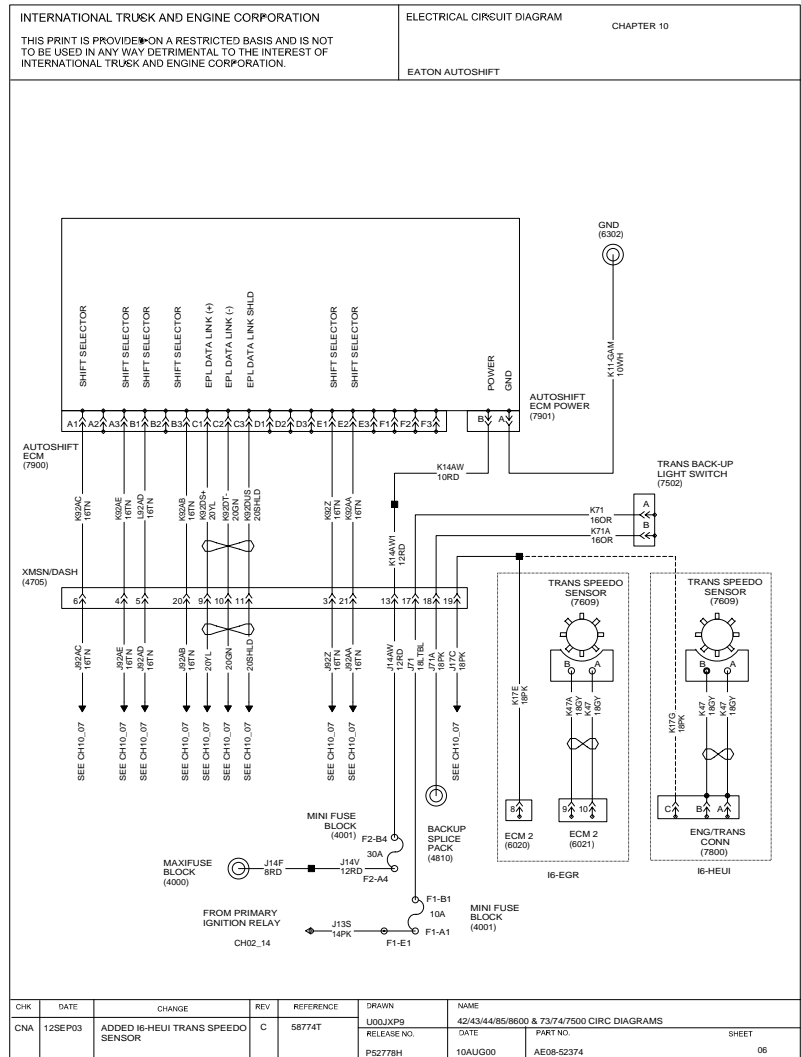


Figure 167 Eaton Autoshift Transmission

10.12. EATON LIGHTNING TRANSMISSION, P. 8

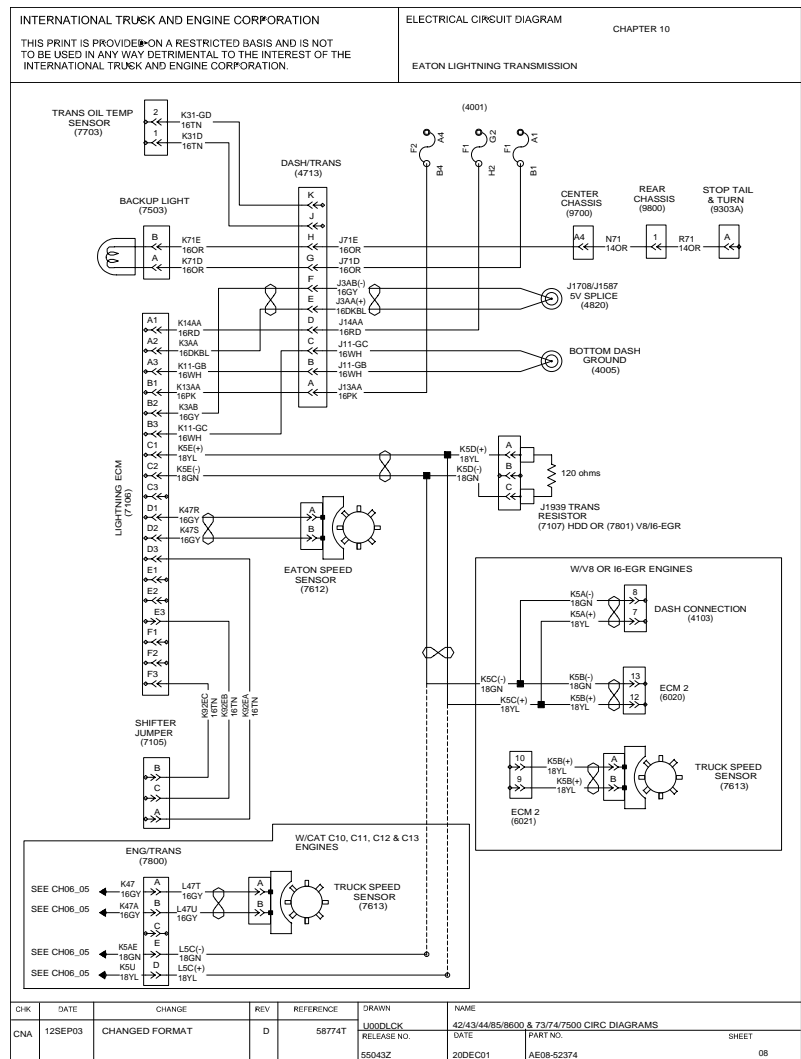


Figure 169 Eaton Lightning Transmission

10.13. ALLISON HD TRANSMISSION, P. 9

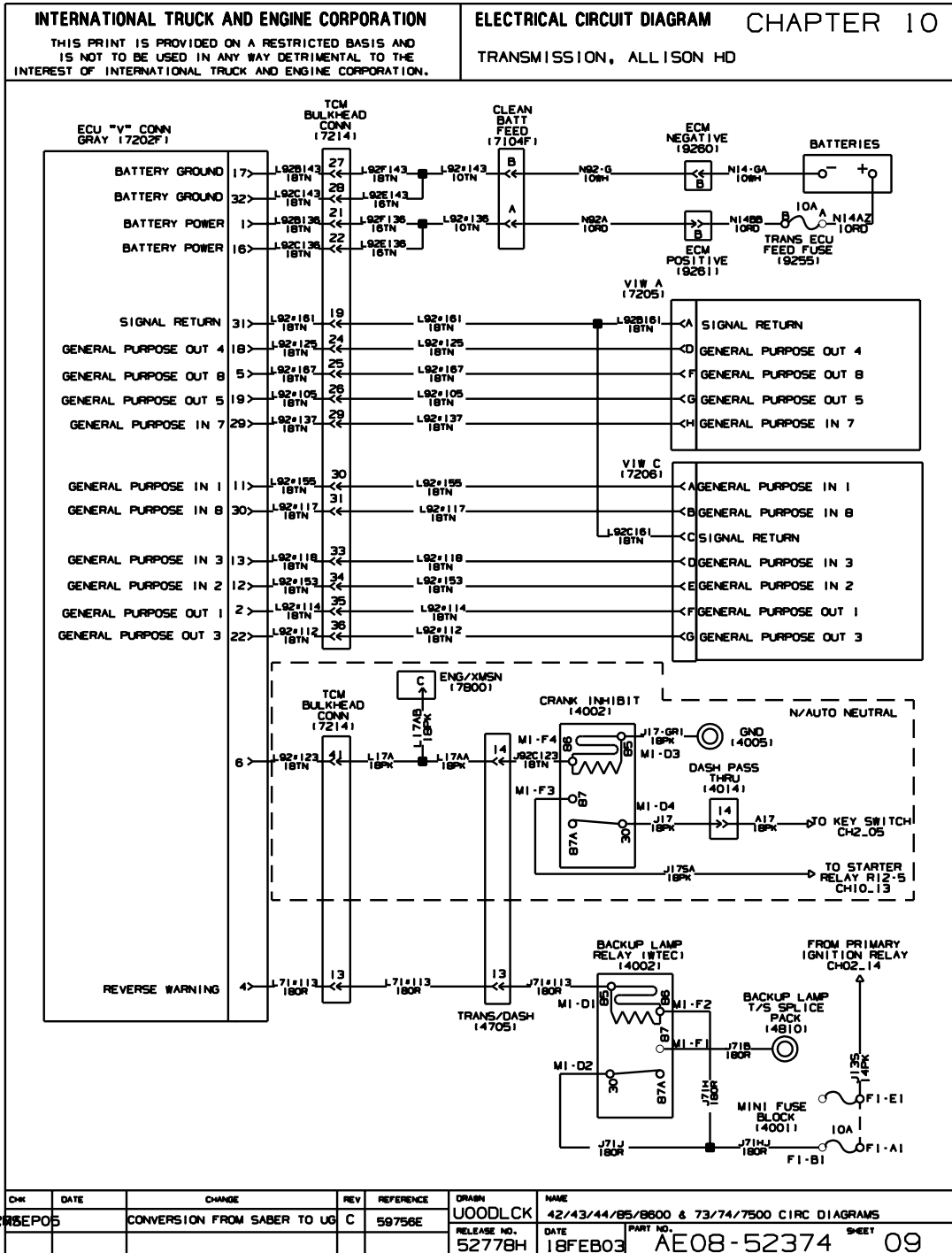


Figure 170 Allison HD Transmission

10.14. ALLISON HD TRANSMISSION, P. 10

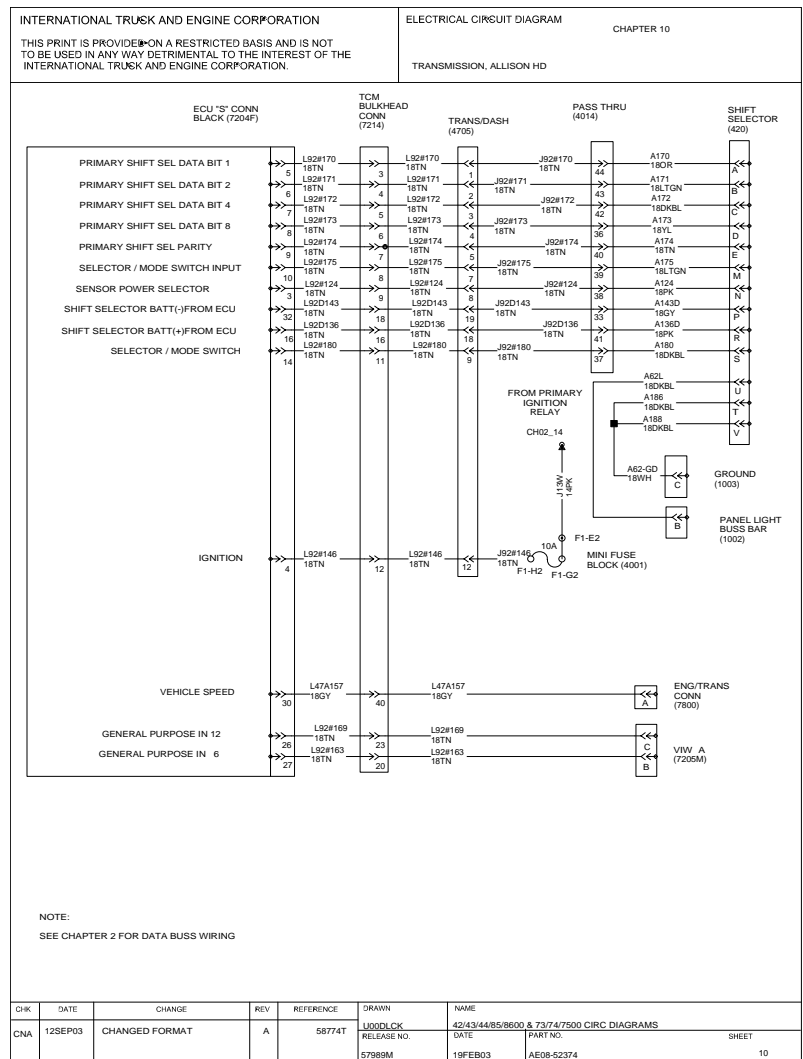


Figure 171 Allison HD Transmission (Cont.)

10.15. ALLISON HD TRANSMISSION, P. 11

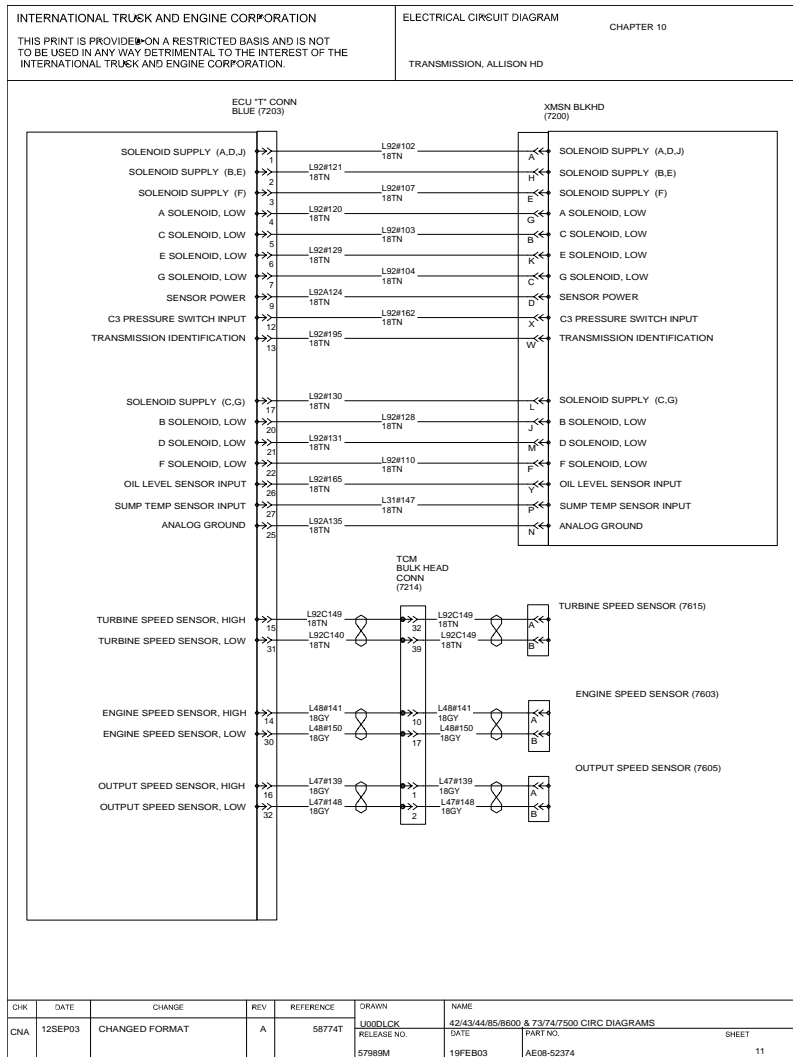


Figure 172 Allison HD Transmission (Cont.)

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

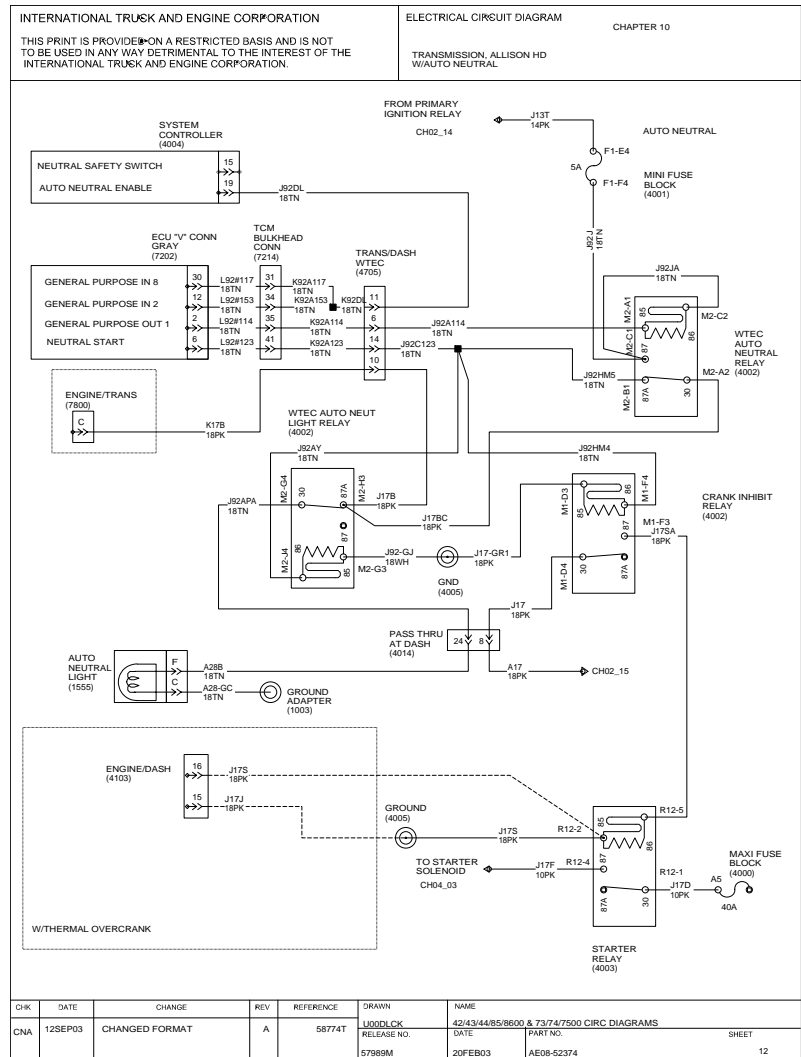


Figure 173 Allison HD Transmission With Auto Neutral

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

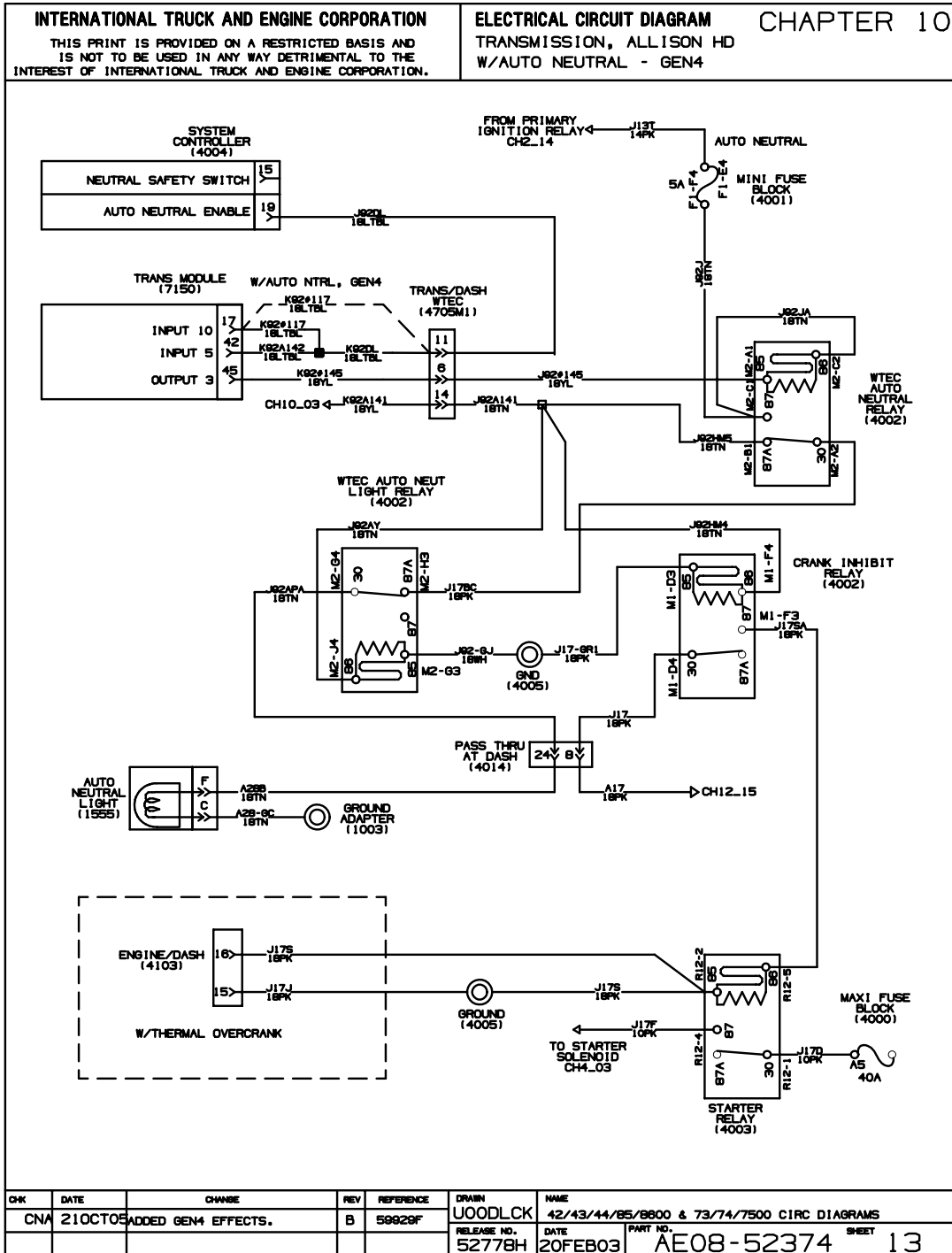


Figure 174 Allison HD Transmission With Auto Neutral — GEN4

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

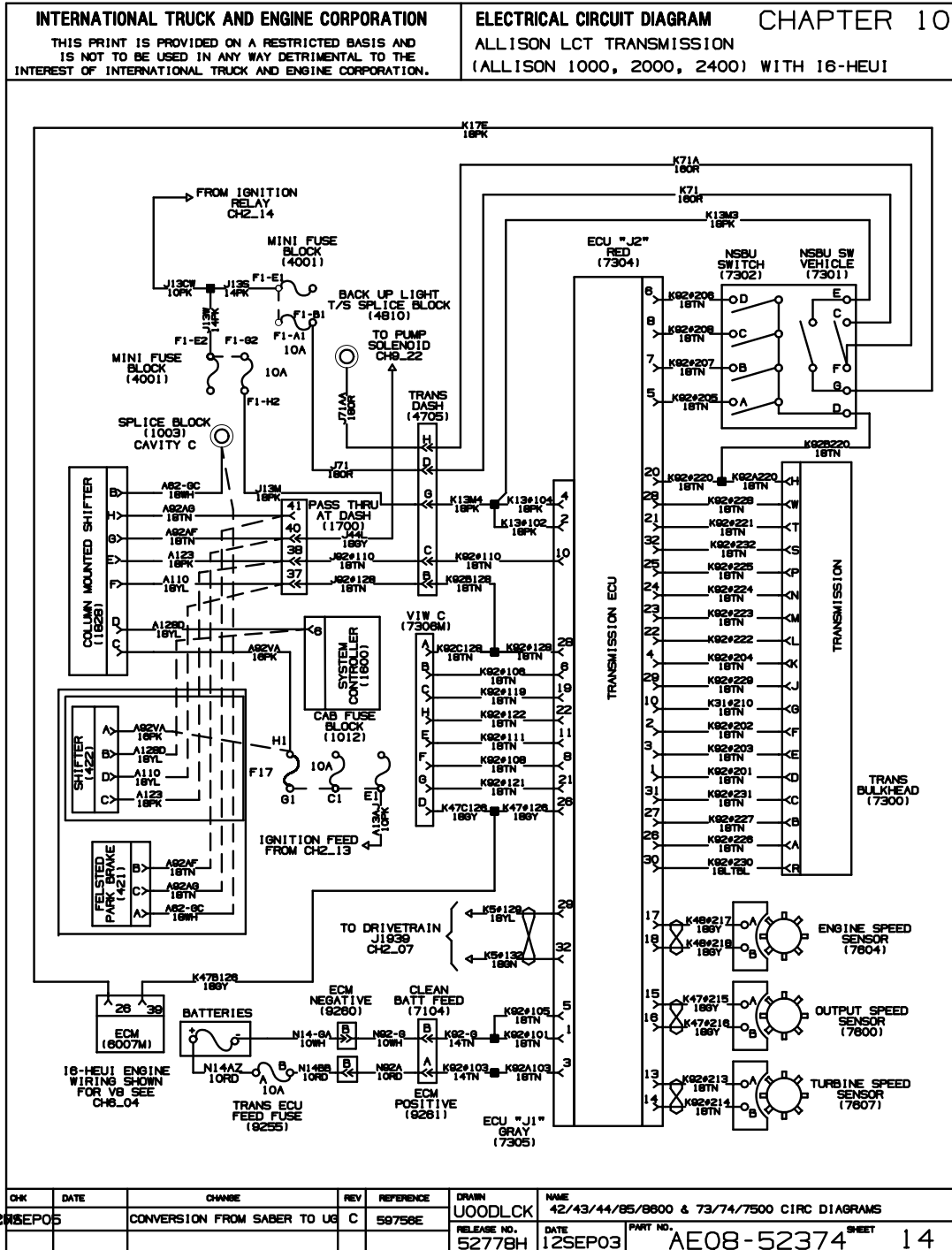


Figure 175 Allison LCT Transmission (Allison 1000, 2000, 2400) with I6 HEUI

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

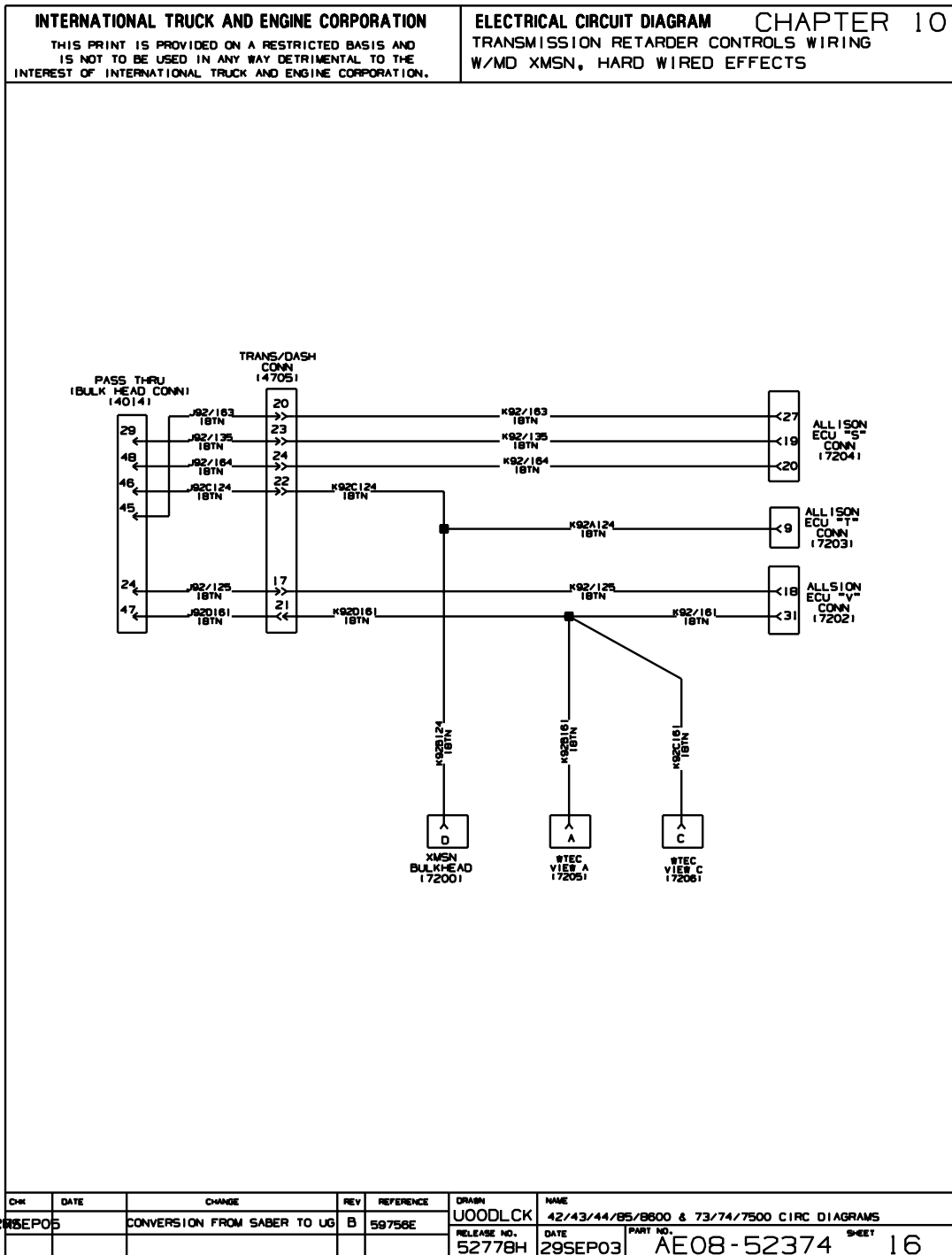


Figure 177 Transmission Retarder Control Wiring with MD Transmission, Hard Wired Effects

10.21. EATON ULTRASHIFT/DM2, P. 17

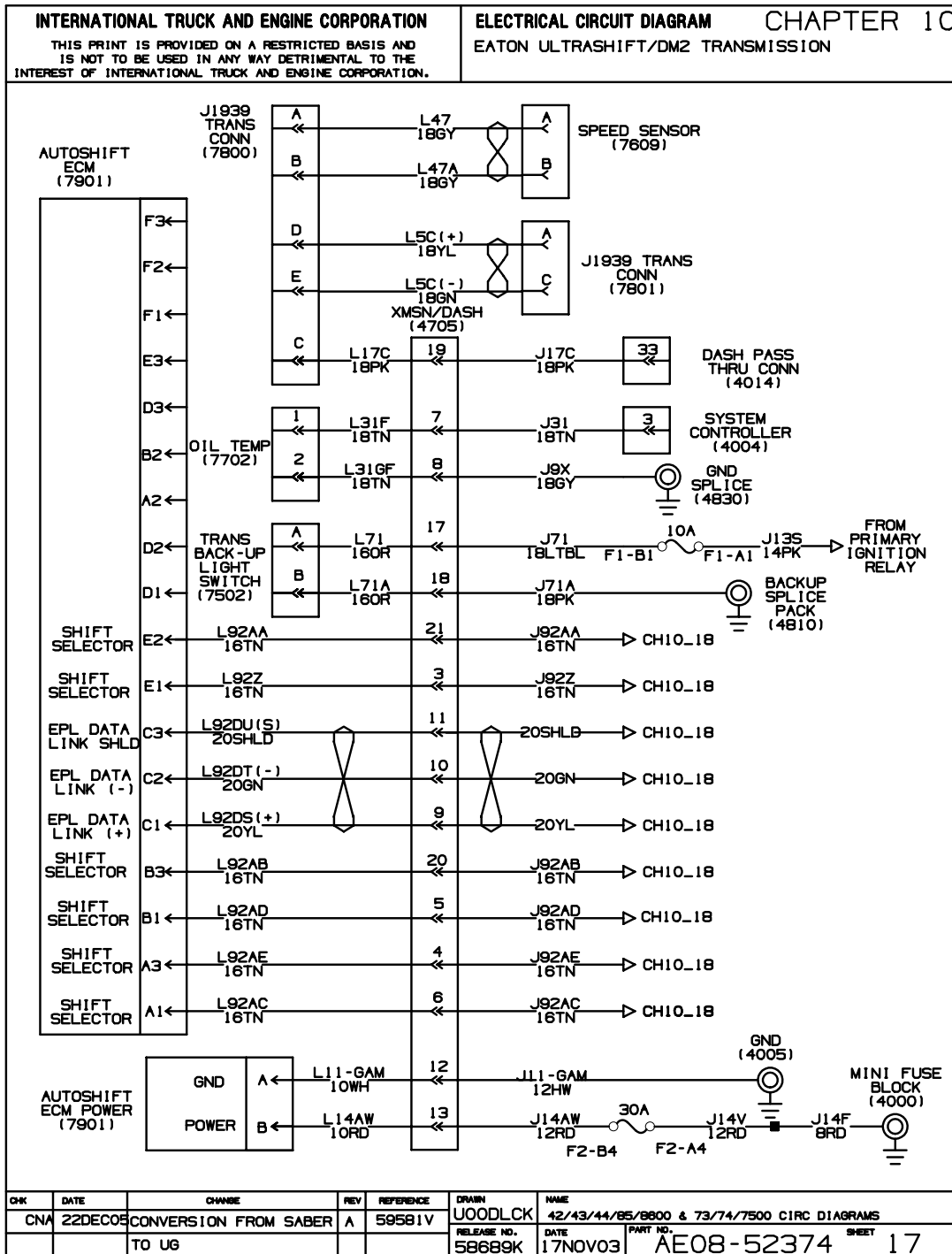


Figure 178 Eaton Ultrashift/DM2

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

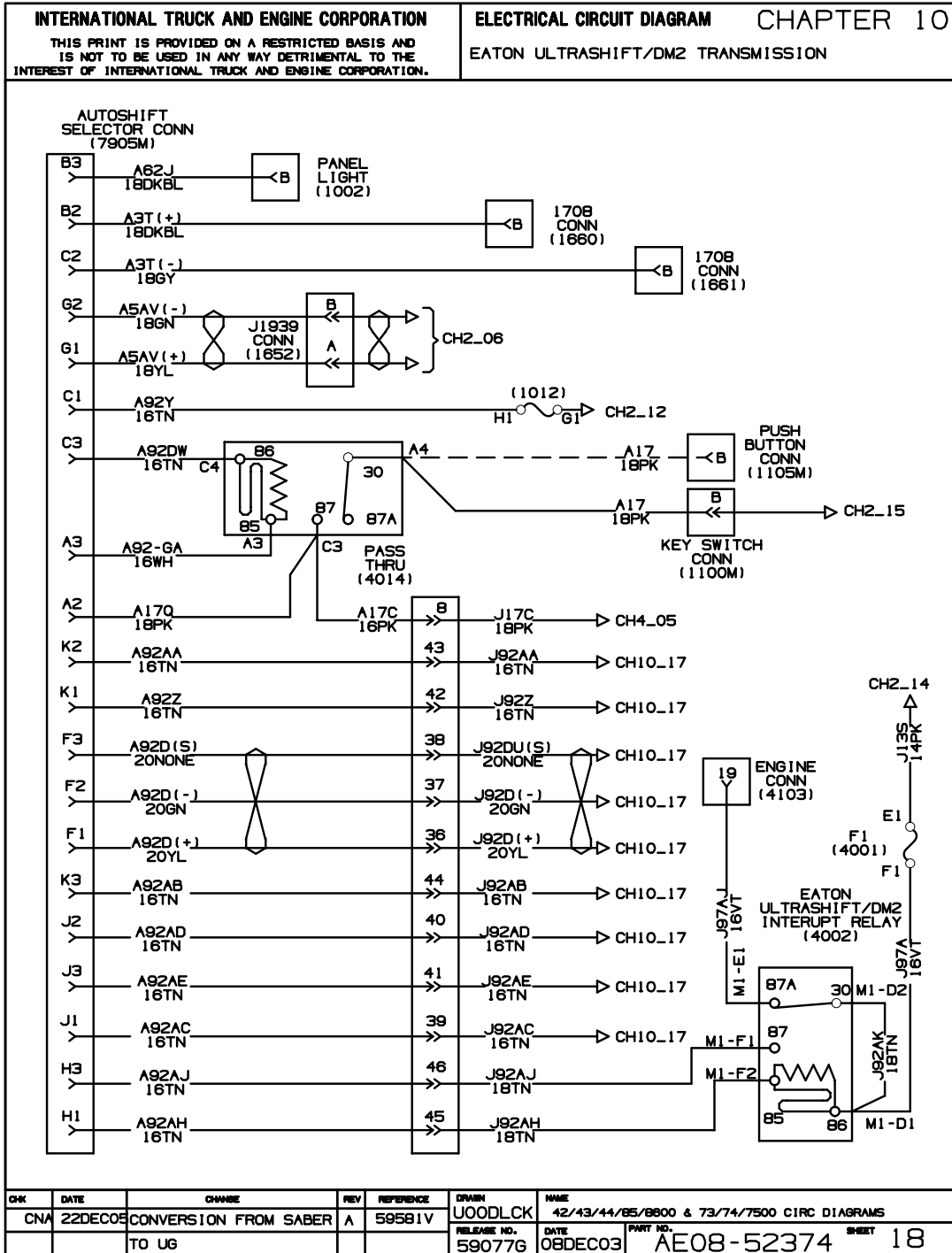


Figure 179 Eaton Ultrashift/DM2 (Cont.)

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

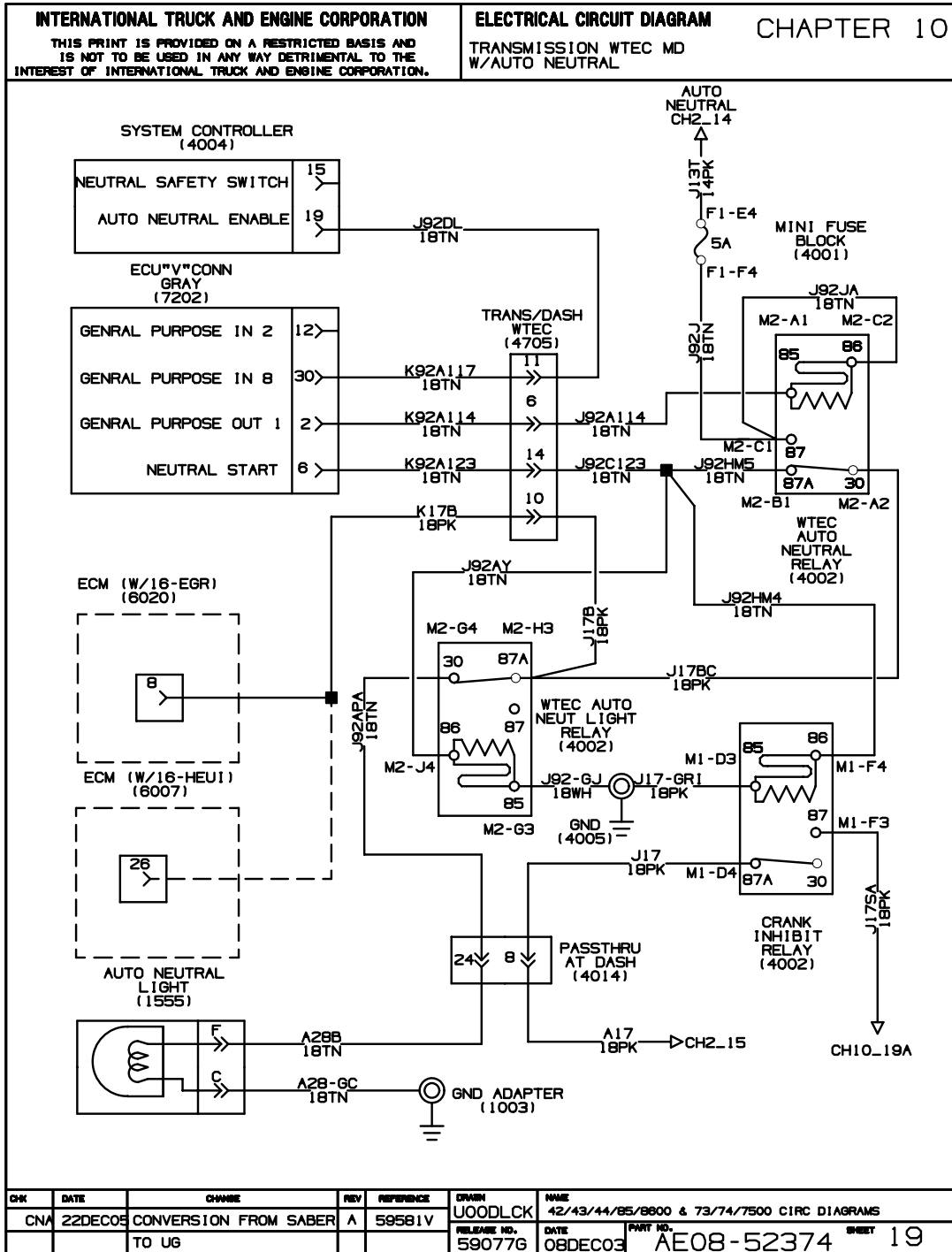


Figure 180 WTEC MD Transmission with Auto Neutral

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

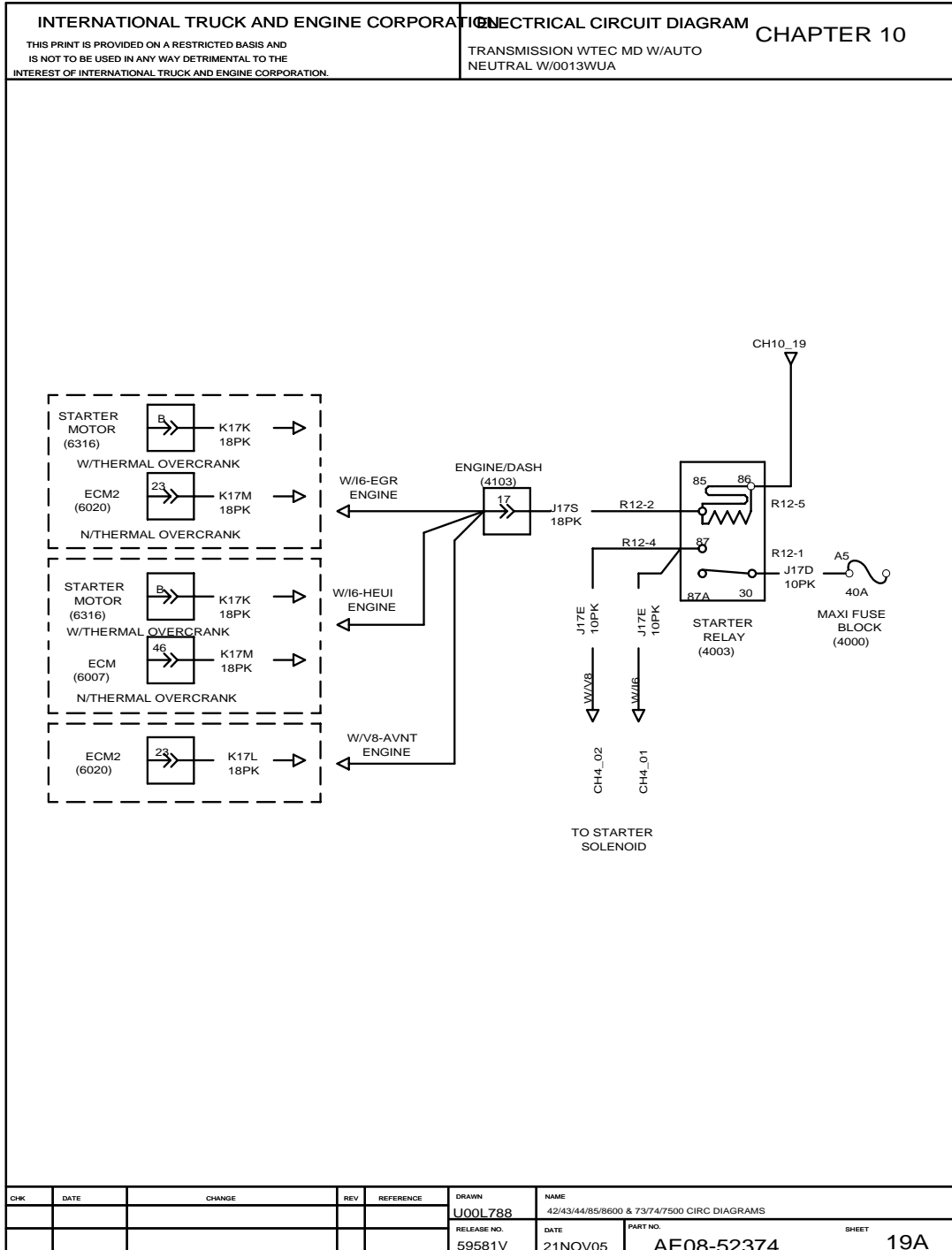


Figure 181 WTEC MD Transmission with Auto Neutral and with 0013WUA

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

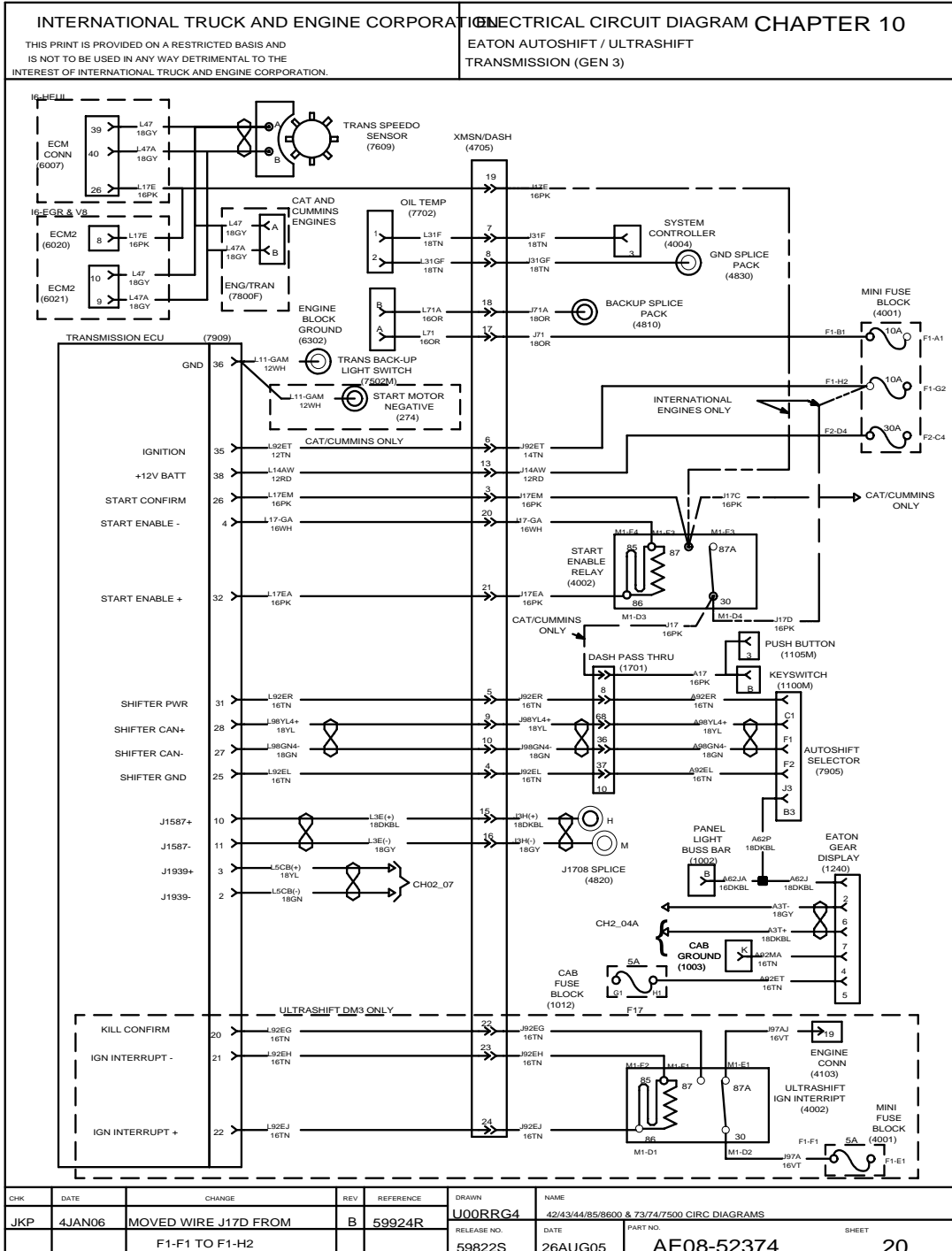


Figure 182 Eaton Autoshift/Ultrashift Transmission (Gen 3)

10.26. EATON HYBRID TRANSMISSION, P. 21

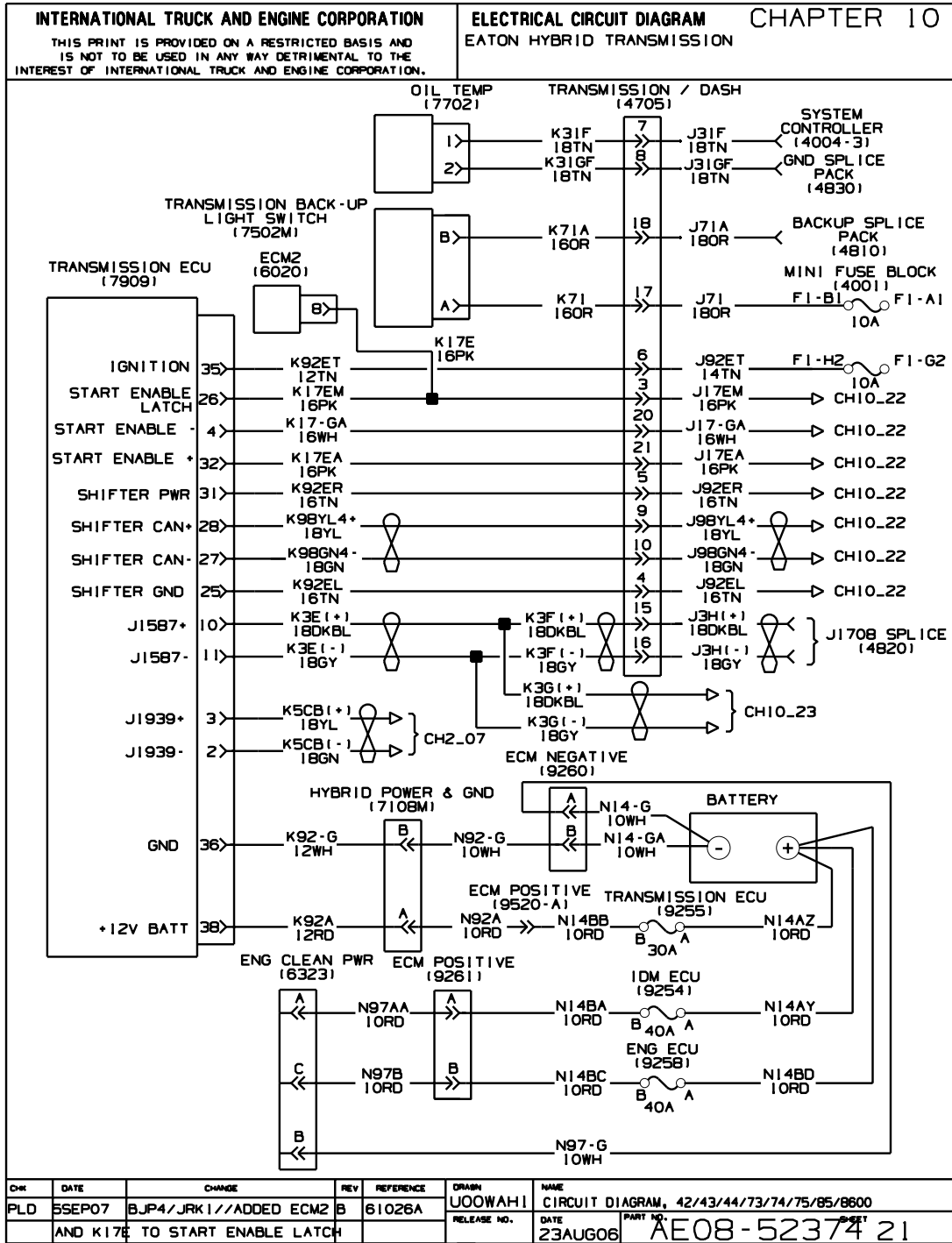


Figure 183 Eaton Hybrid Transmission

10.27. EATON HYBRID TRANSMISSION, P. 22

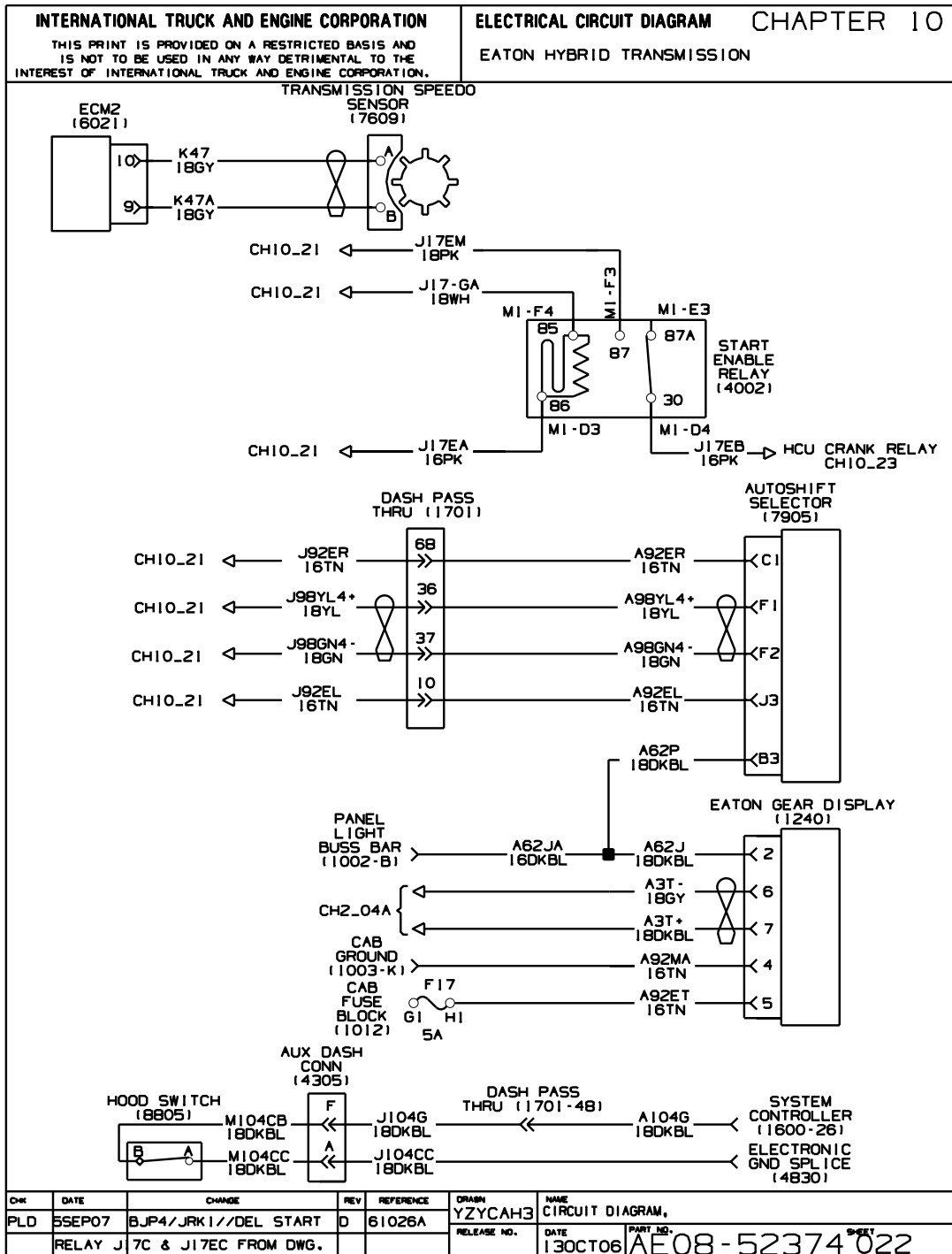


Figure 184 Eaton Hybrid Transmission

10.28. EATON HYBRID TRANSMISSION, P. 23

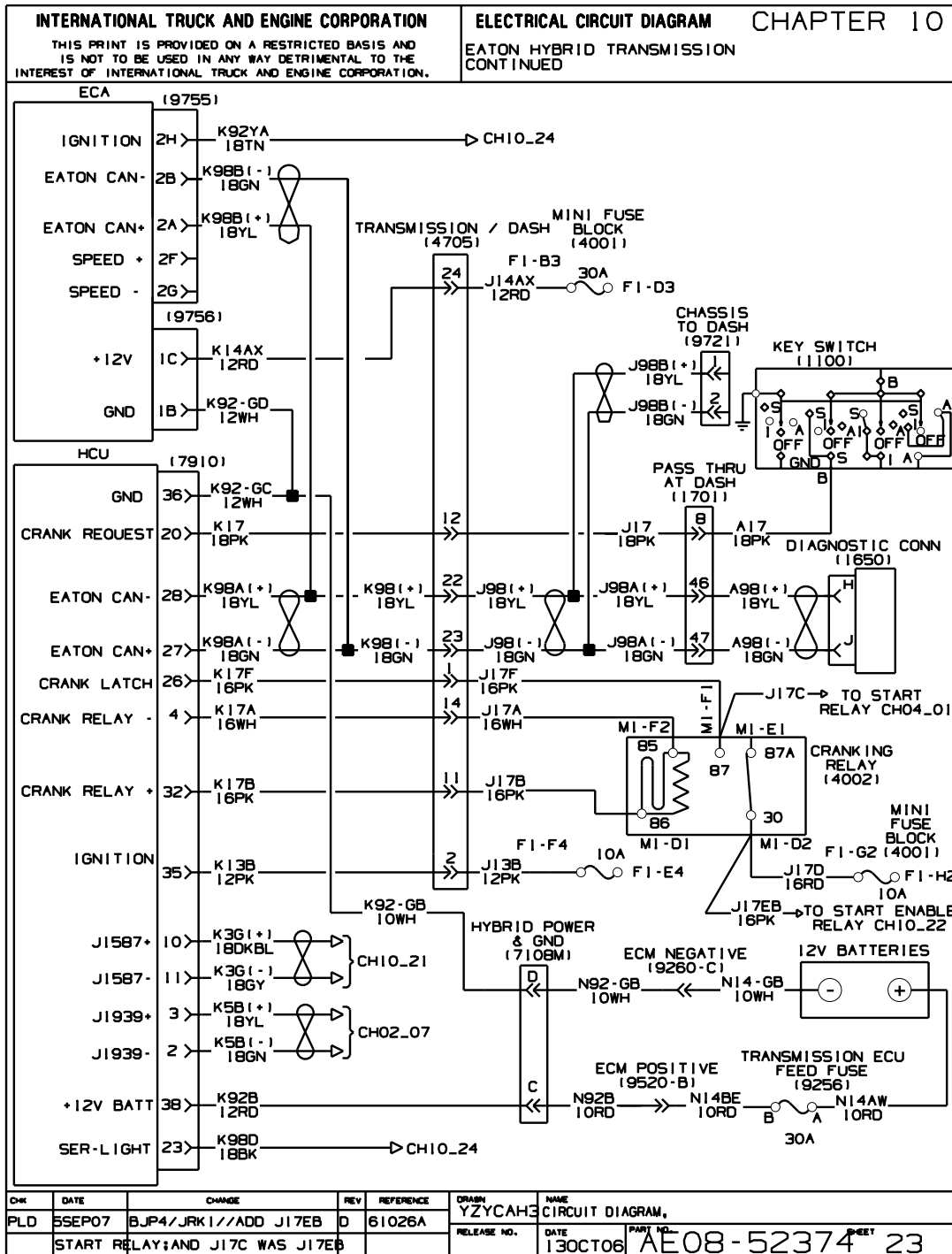


Figure 185 Eaton Hybrid Transmission

10.29. EATON HYBRID TRANSMISSION, P. 24

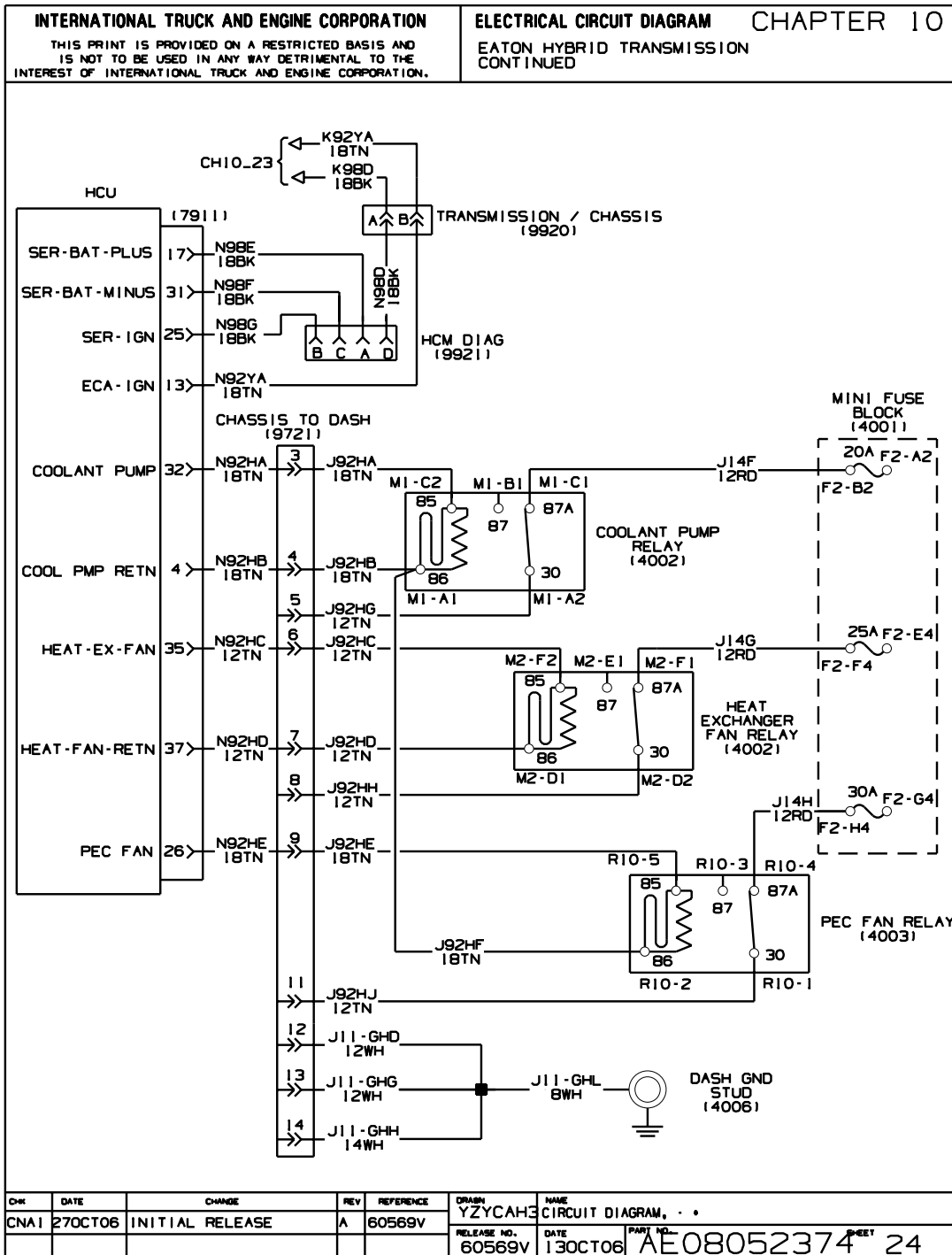


Figure 186 Eaton Hybrid Transmission

10.30. EATON HYBRID TRANSMISSION, P. 25

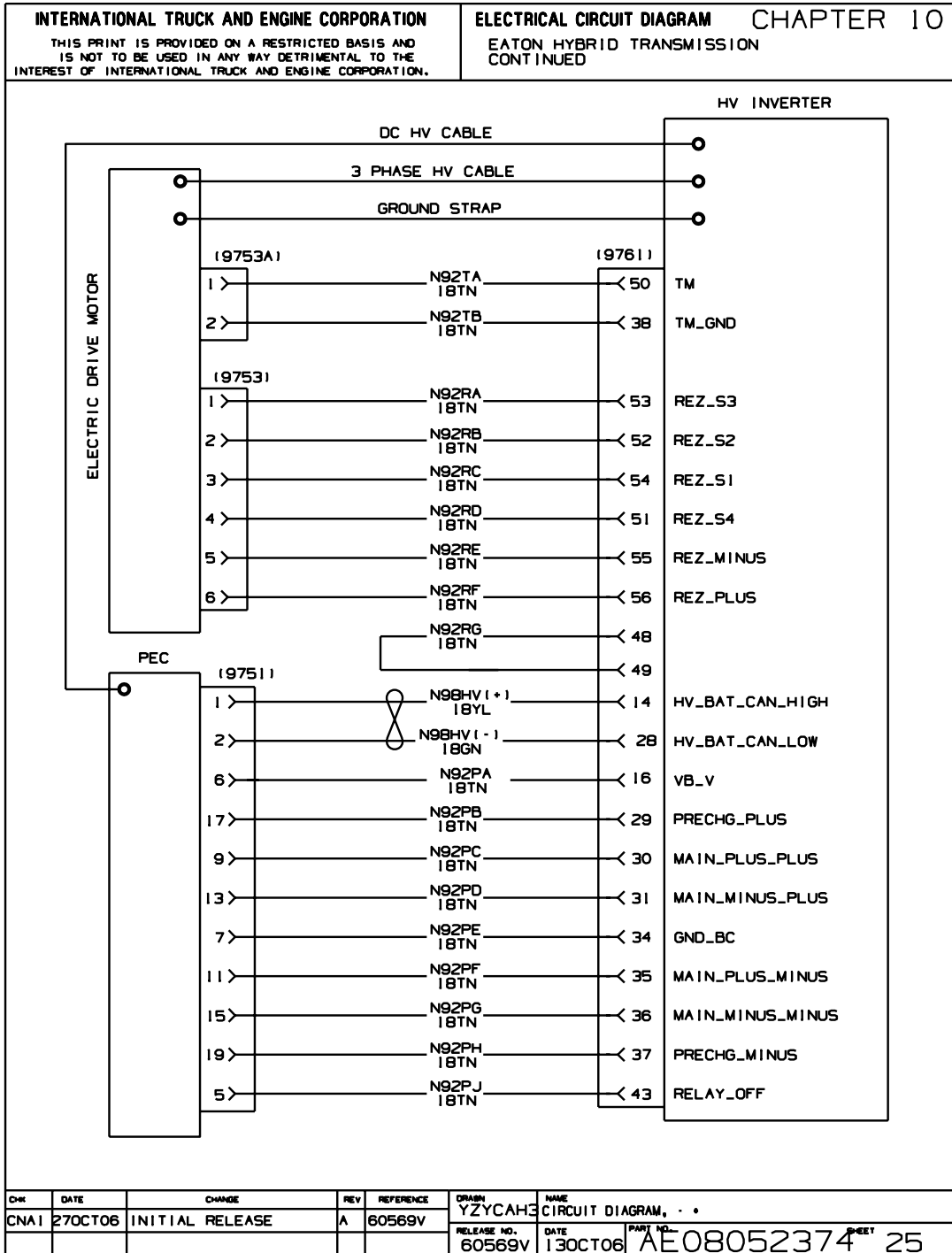


Figure 187 Eaton Hybrid Transmission

10.31. EATON HYBRID TRANSMISSION, P. 26

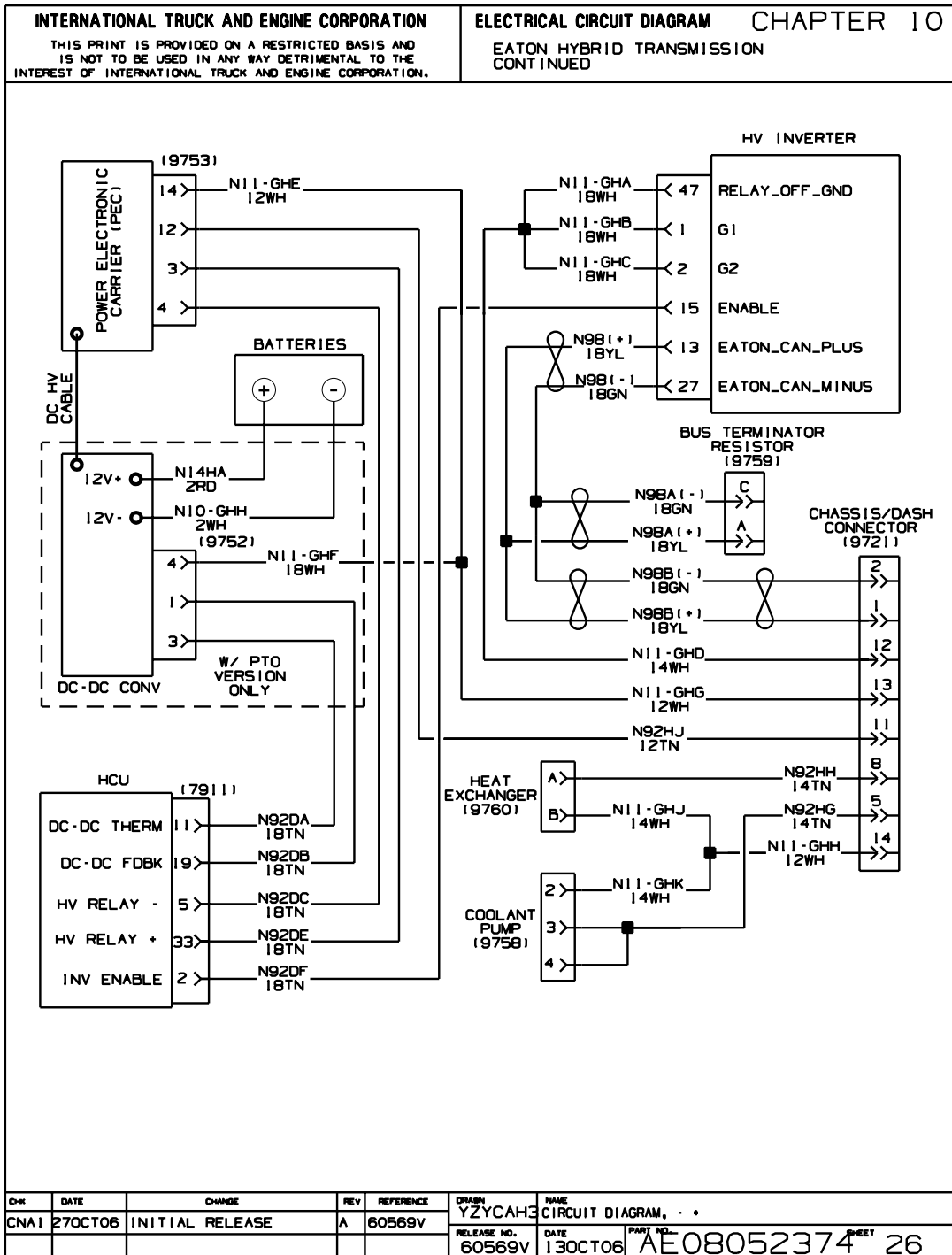


Figure 188 Eaton Hybrid Transmission

10.32. TRANSFER CASE — WITH MXT, P. 27

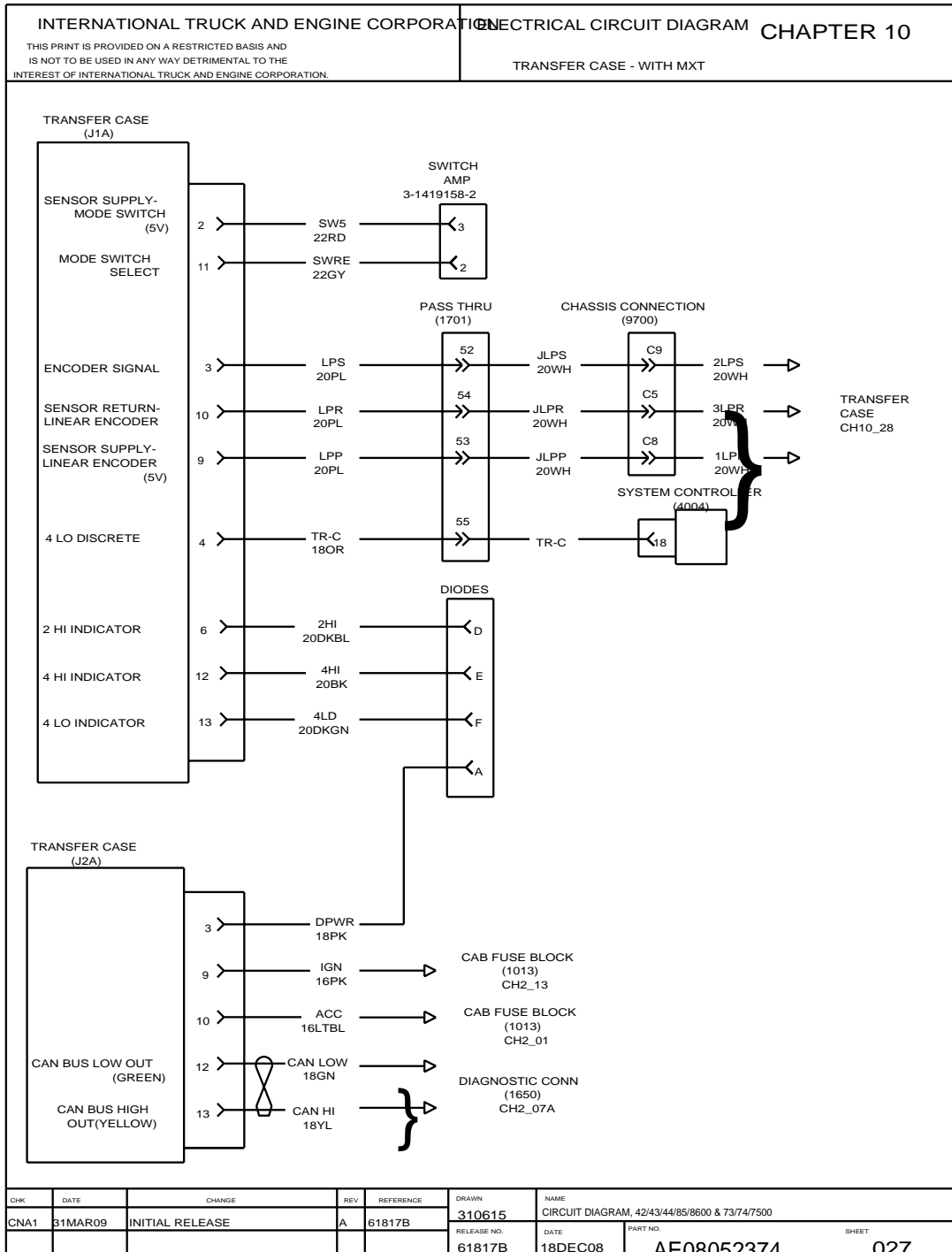


Figure 189 Transfer Case — with MXT

10.33. TRANSFER CASE — WITH MXT, P. 28

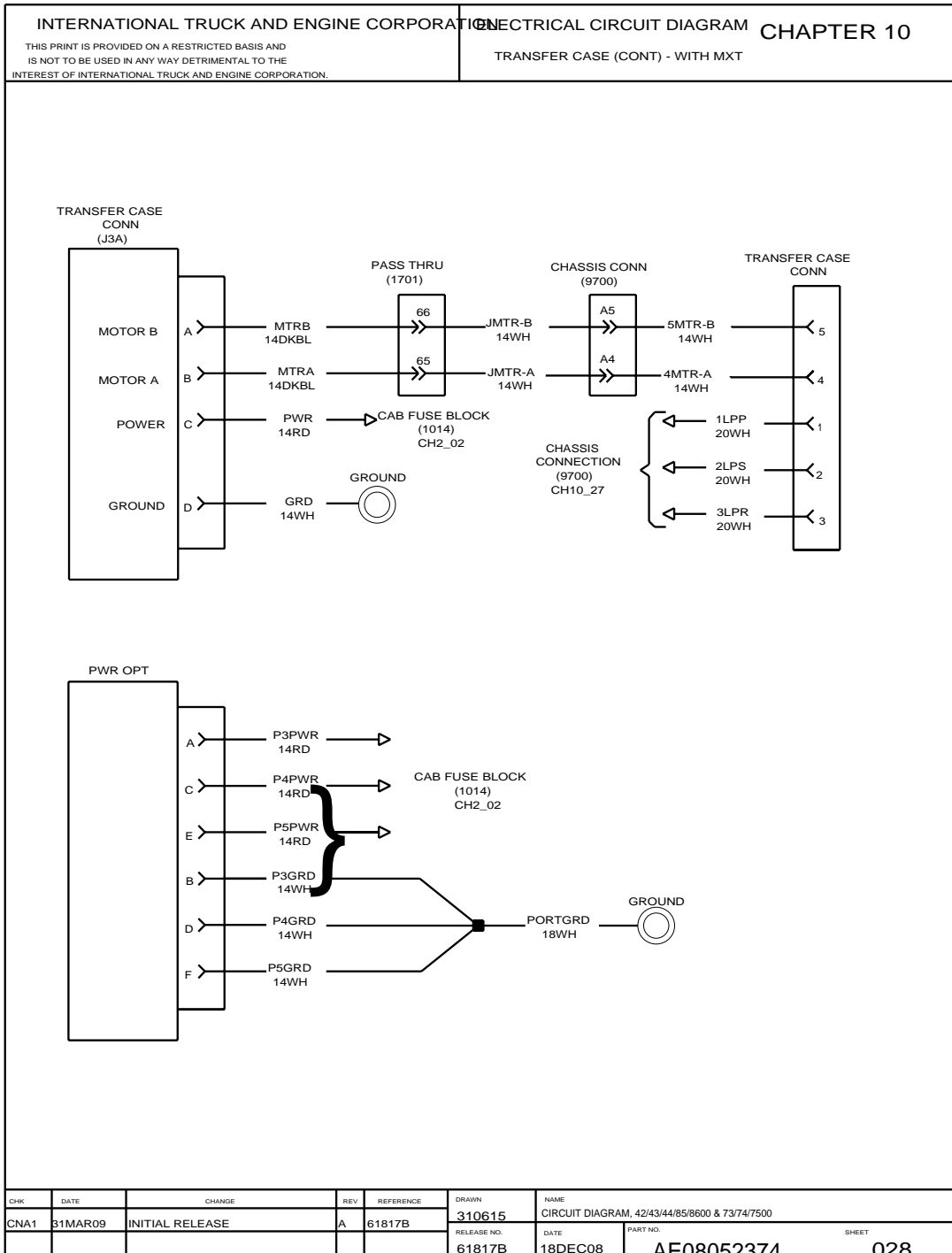


Figure 190 Transfer Case — with MXT

11. AIR CONDITIONING (CHAPTER 11)

11.1. HVAC SYSTEMS, P. 1

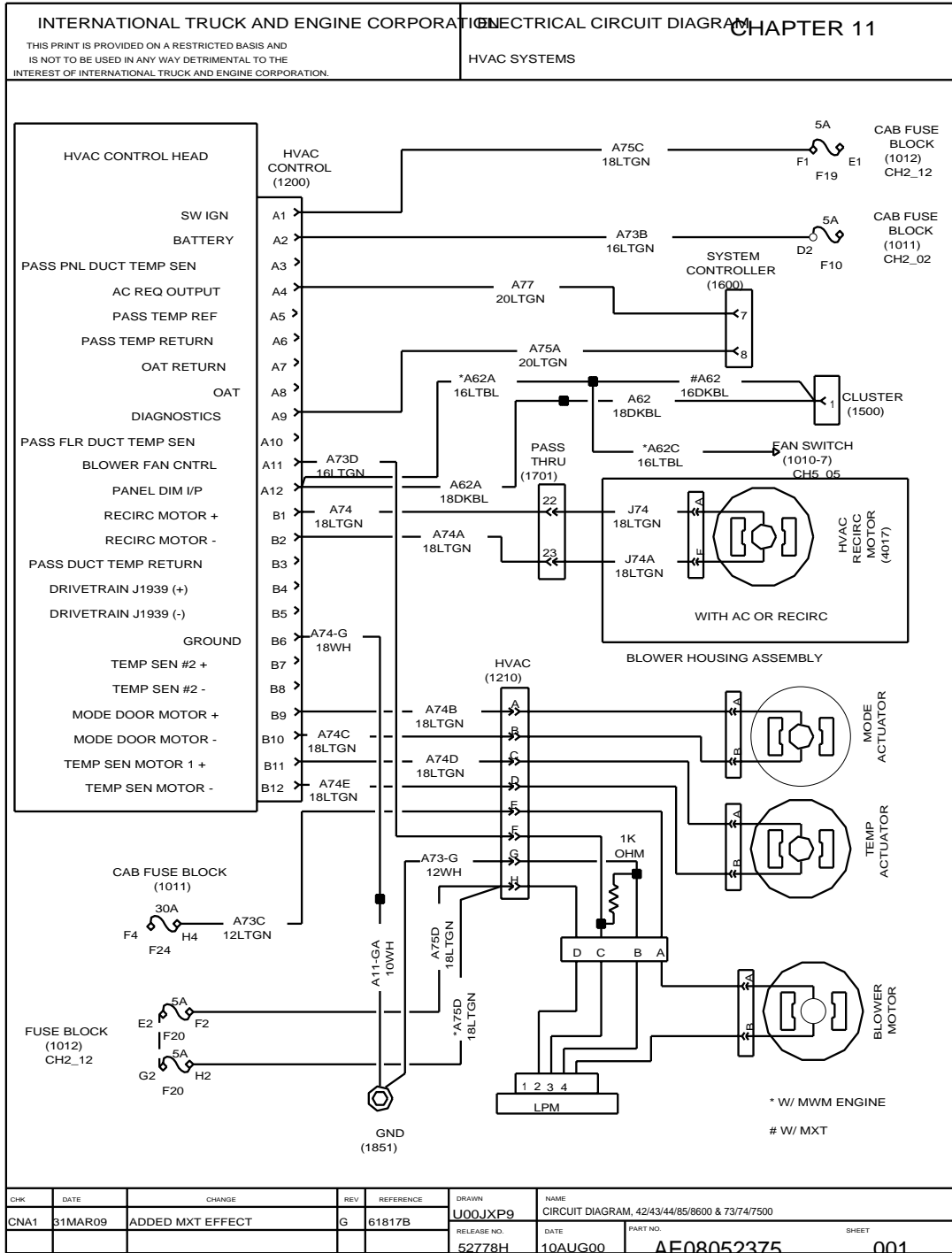


Figure 191 HVAC Systems

11.2. AIR CONDITIONING, P. 2

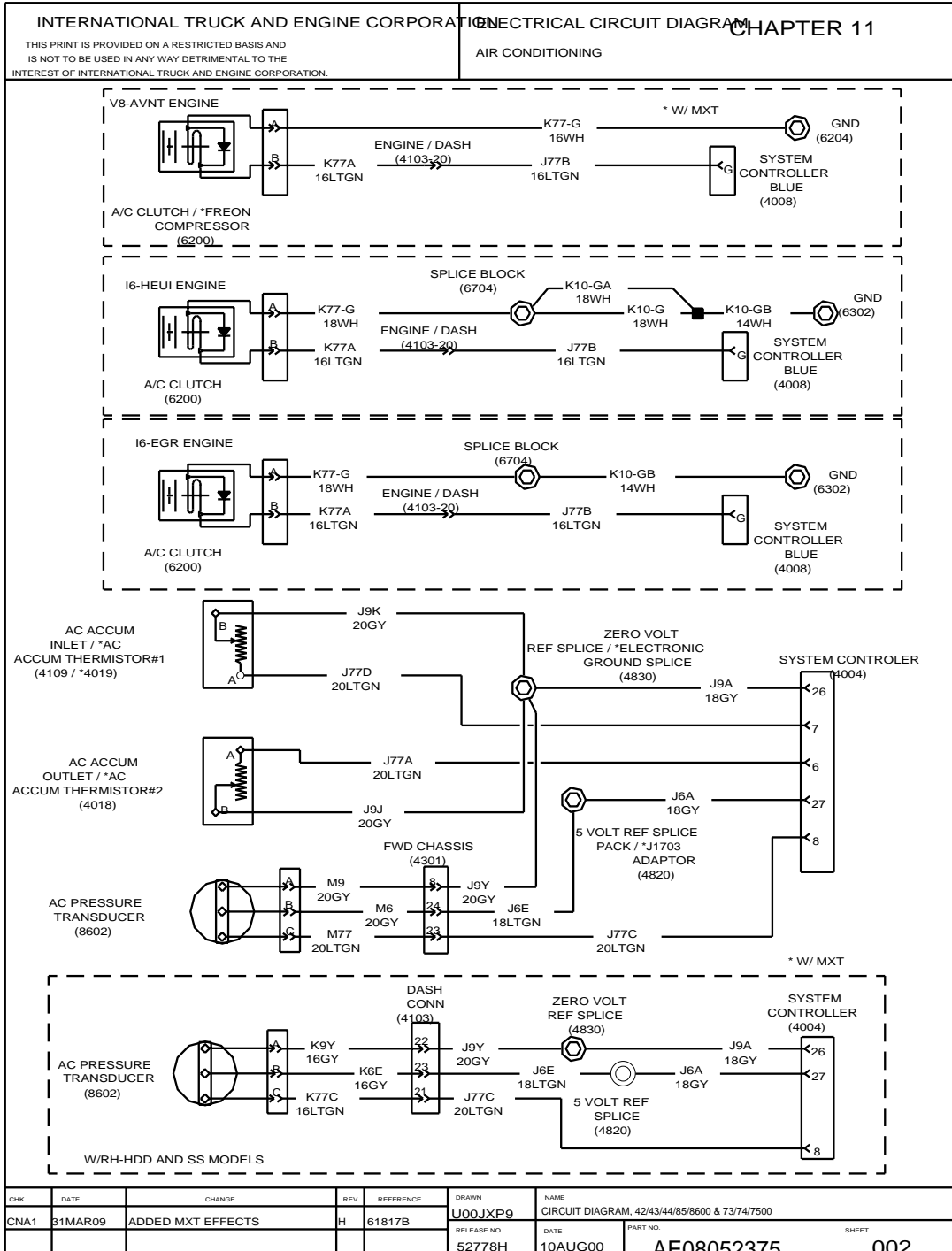


Figure 192 Air Conditioning

11.3. AUTOTHERM SYSTEMS, P. 3

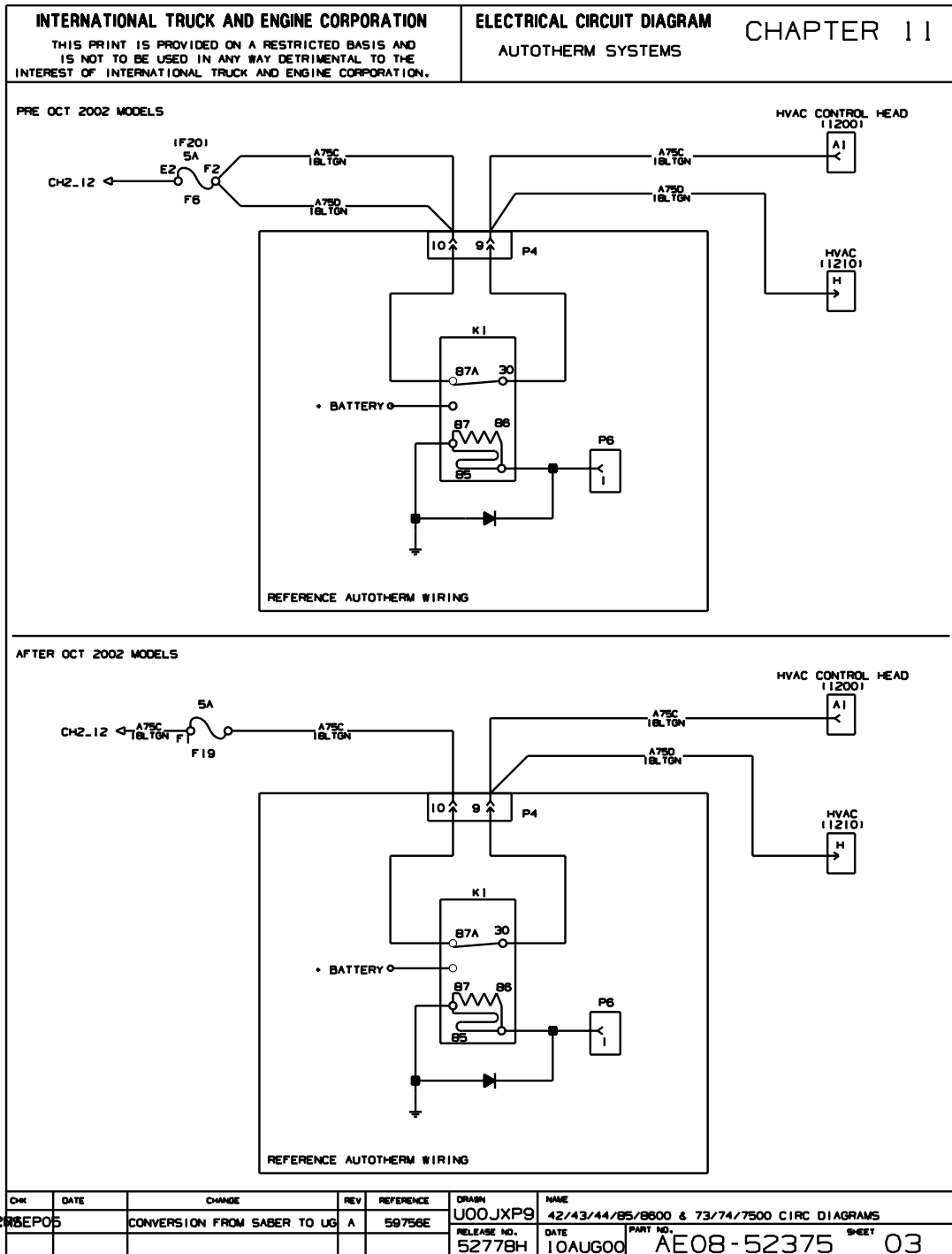


Figure 193 Autotherm Systems