

## 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								
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	XMSN CTRLR/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	AXLE					
NOTES: 1) WARNING LIGHTS ARE PART OF THE GAUGES AND LOCATED IN THE GAUGE								
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	09AUG00	AE08-52371	01

**Figure 62 IP/Gauge List**

7.2. WARNING LIGHT LIST, P. 2

INTERNATIONAL TRUCK AND ENGINE CORPORATION				ELECTRICAL CIRCUIT DIAGRAM			
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.				CHAPTER 7		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 (D)	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 (LEFT TURN)	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER			WASHER BOTTLE			
AIR BAG	DISCRETE NOT ON DATA BUS			TURN SIG SW			
WATER IN FUEL	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER			FUEL FILTER			
COOLANT LEVEL	ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER			SURGE TANK			
CHECK ELECT SVS	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER						
PARK (P)	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER			SWITCH			
CRUISE	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER						
ABS (RIGHT TURN)	TRUCK 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	U00JXP9	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS
					RELEASE NO.	DATE
					P52778H	09AUG00
						PART NO.
						AE08-52371
						SHEET
						02

Figure 63 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					
<p>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:</p> <p>RANGE INHIBIT</p> <p>ENGINE (YELLOW LED)</p> <p>ENGINE (RED LED)</p> <p>TRAC CTRL</p> <p>CHECK TRANS</p> <p>TRAILER ABS</p> <p>CHECK ELECTR SYS</p> <p>ABS</p> <p>WAIT TO START</p> <p>RETARD OVERHEAT</p> <p>AUTO NEUTRAL      (NOT ON DATA BUS TO CLUSTER)</p> <p>OPTIMIZED IDLE      (NOT ON DATA BUS TO CLUSTER)</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
					P52778H	20JUN00
						PART NO.
						AE08-52371
						SHEET
						03

**Figure 64 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.
					P52778H	20JUN00	AE08-52371
							SHEET 04

**Figure 65 Engine Oil Pressure and Temp, Speedometer, Tach, Voltmeter and Water Temp Gauge Circuits**

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

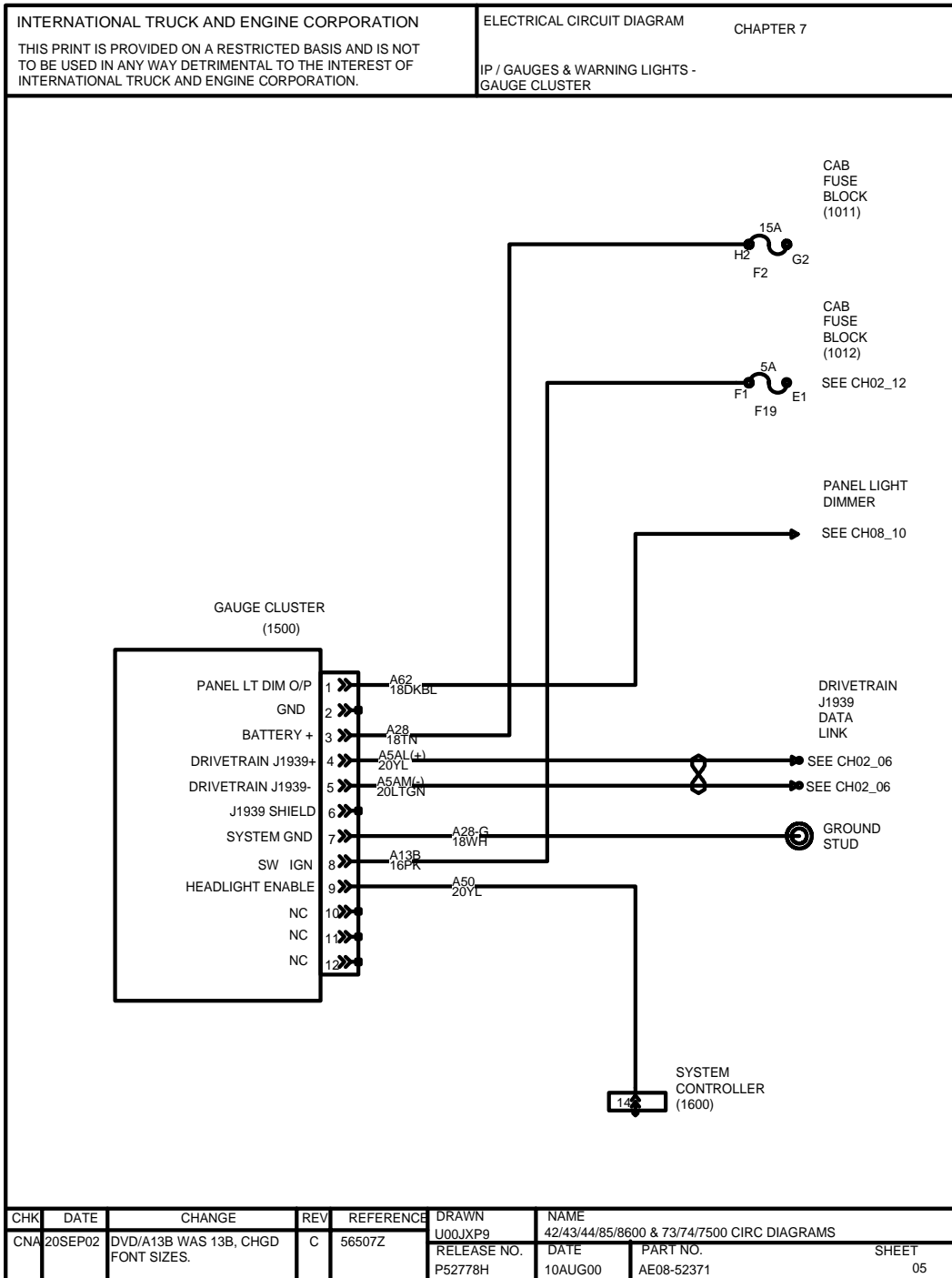


Figure 66 IP/Gauges and Warning Lights — Gauge Cluster

7.6. AIR PRESSURE INPUT CIRCUIT, P. 6

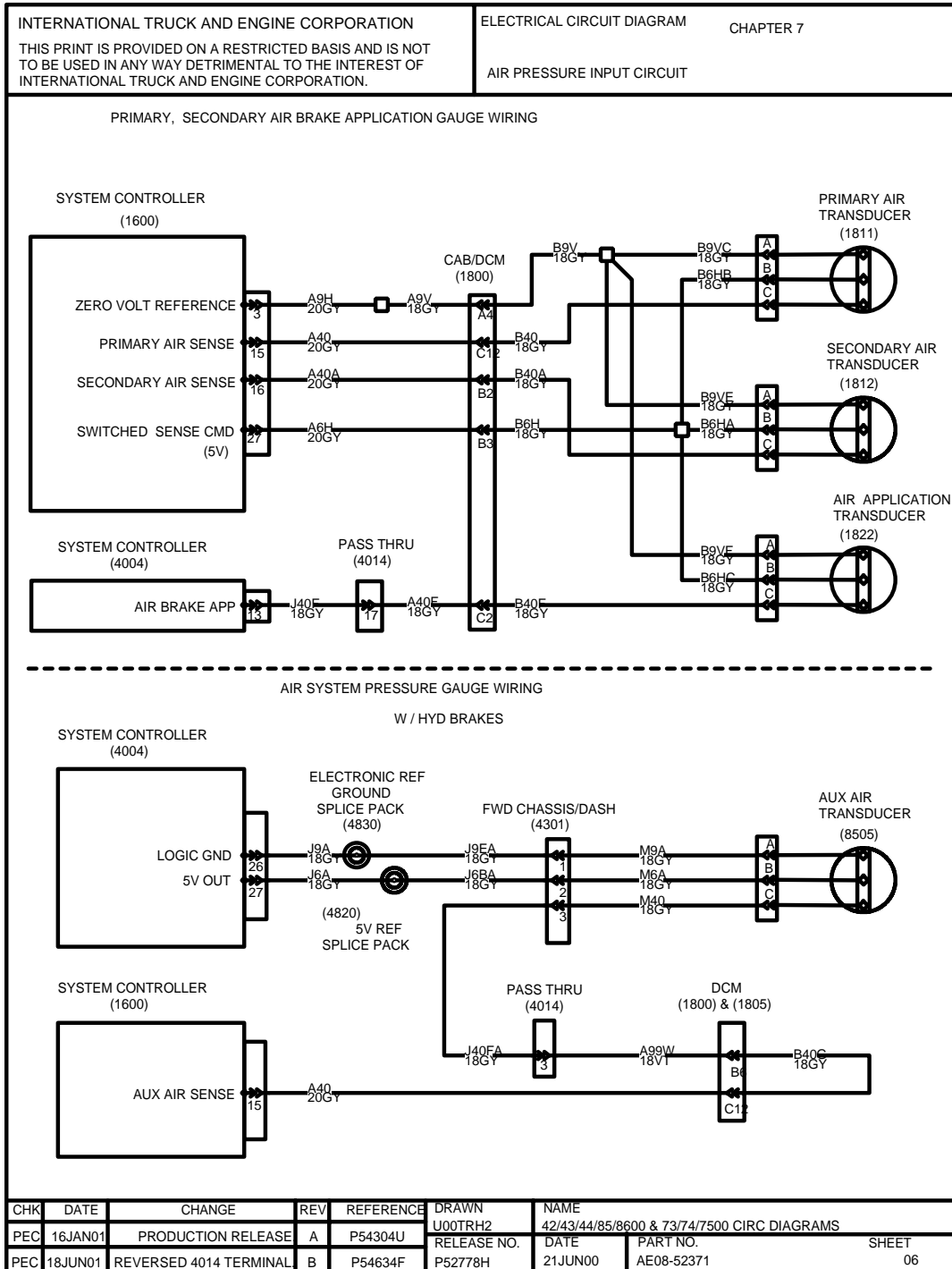


Figure 67 Air Pressure Input Circuit

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

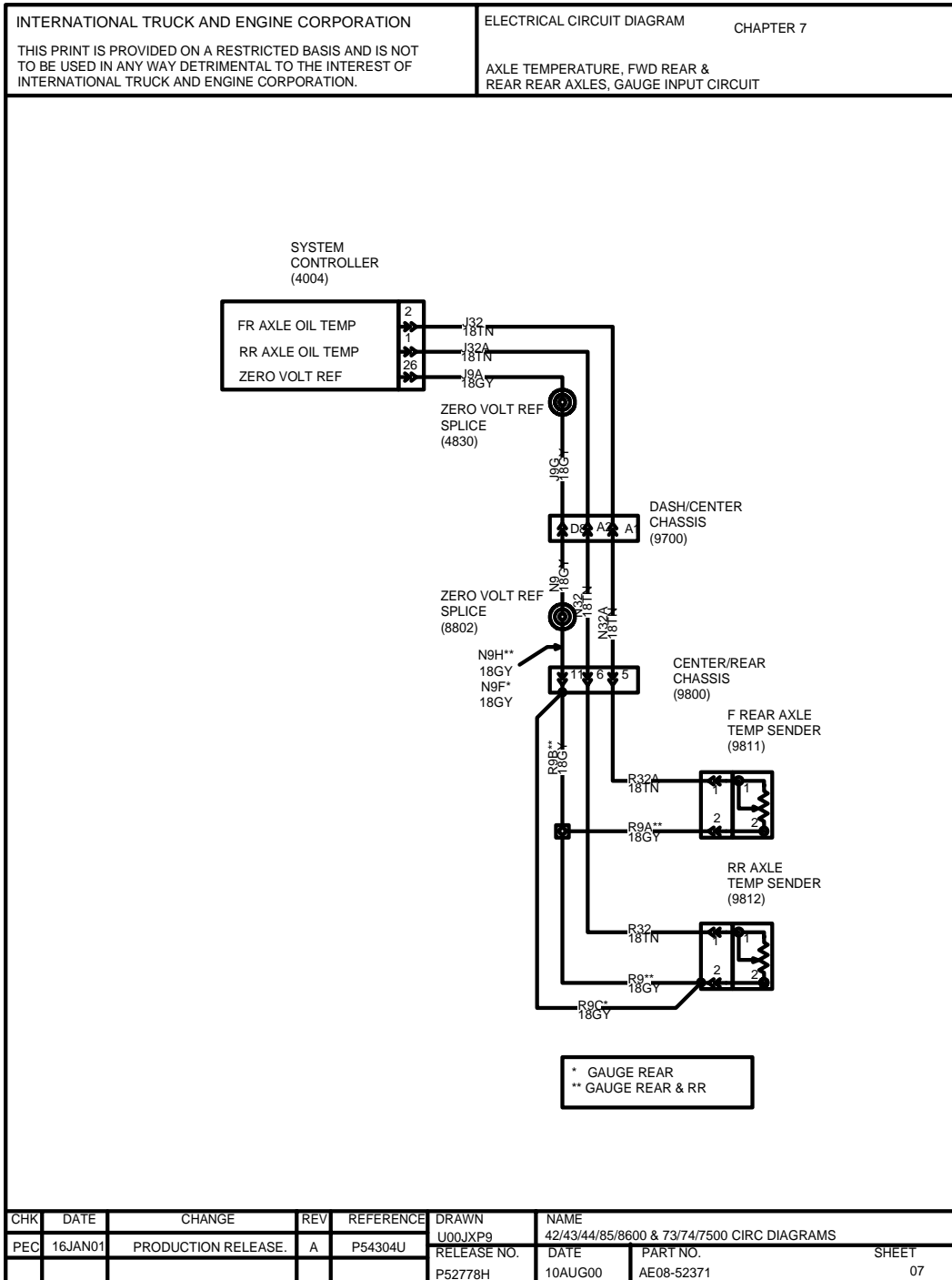


Figure 68 Axle Temperature, FWD Rear and Rear Axles, Gauge Input Circuit

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

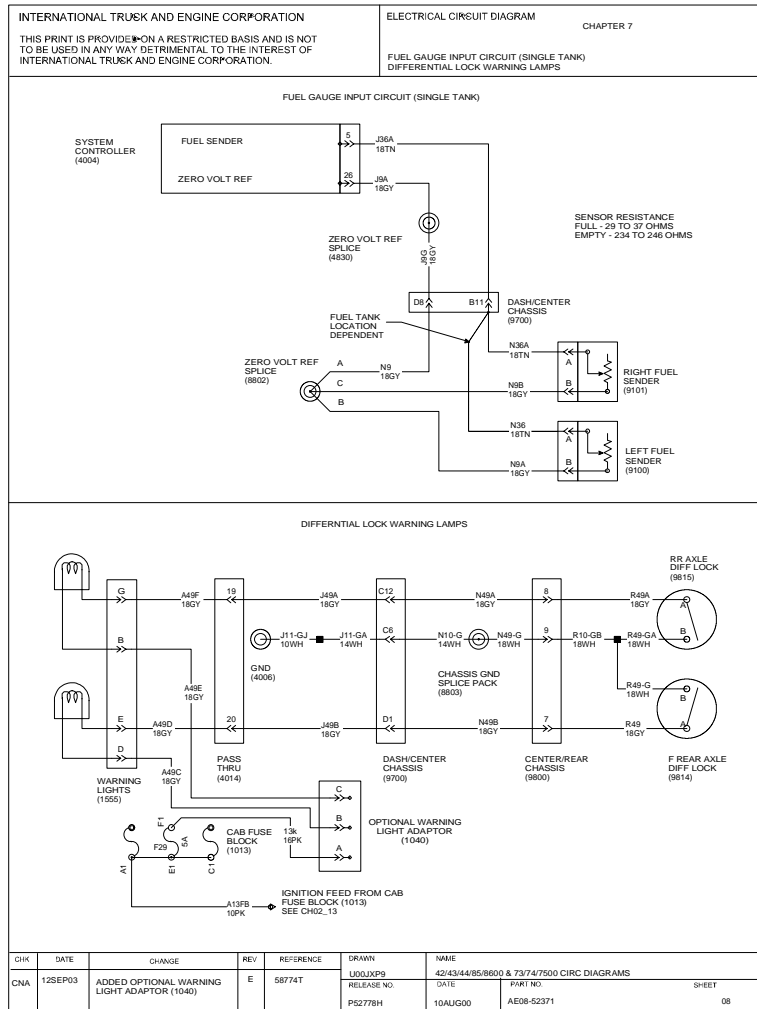
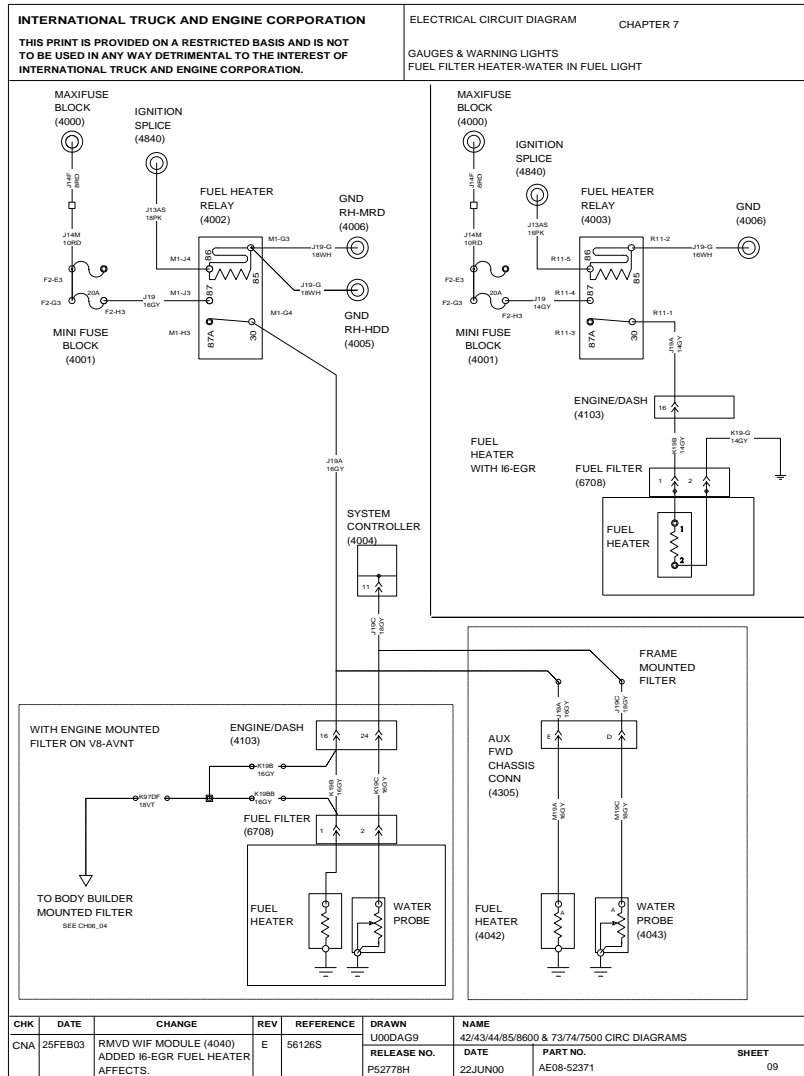


Figure 69 Fuel Gauge Input Circuit (Single Tank) Differential Lock Warning Lamps

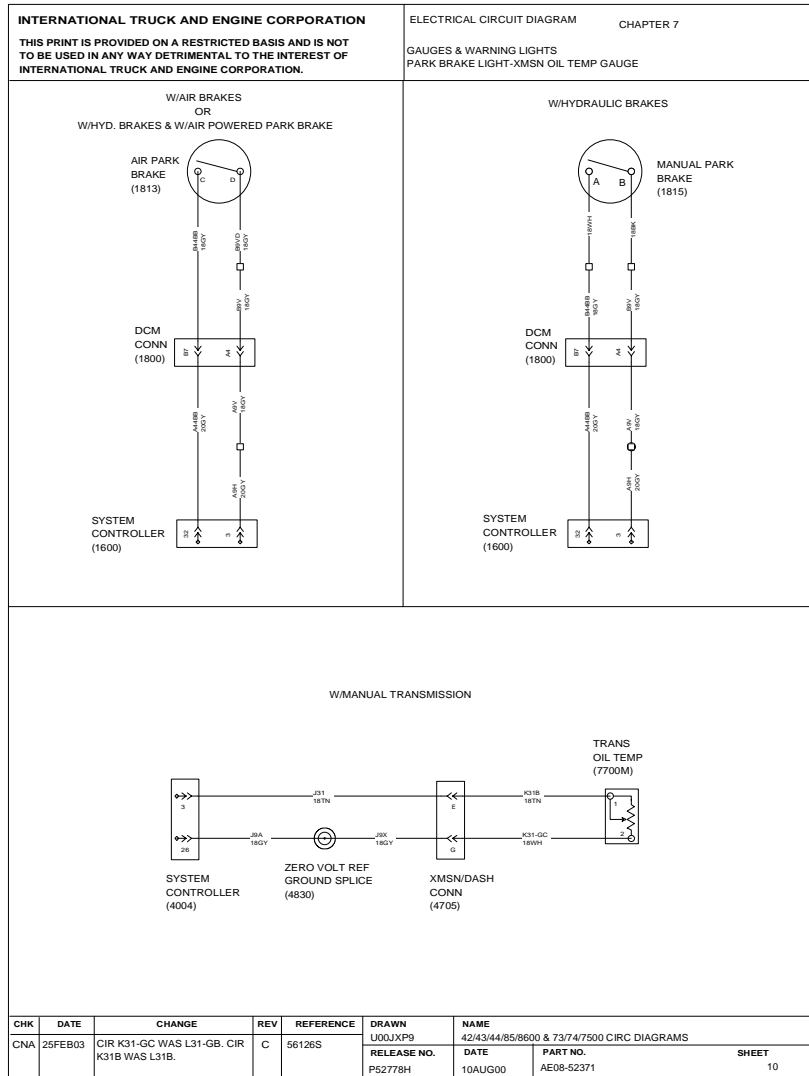


**7.9. GAUGES AND WARNING LIGHTS — FUEL FILTER RESTRICTION AND WATER IN FUEL LIGHTS, P. 9**



**Figure 70 Gauges and Warning Lights — Fuel Filter Restriction and Water in Fuel Lights**

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



**Figure 71 Gauges and Warning Lights — Park Brake Light and Transmission Oil Temp. Gauge**

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

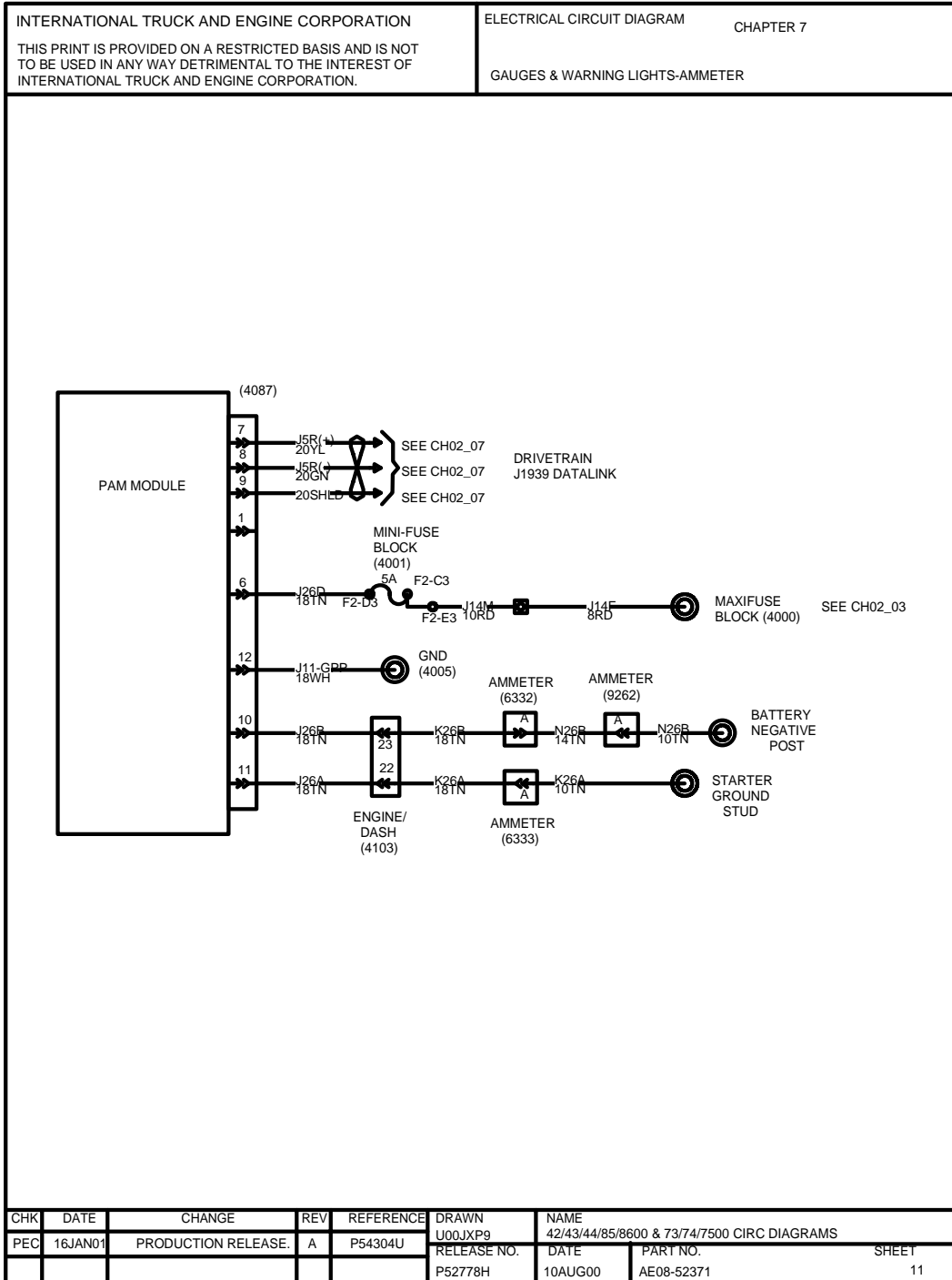


Figure 72 Gauges and Warning Lights — Ammeter

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

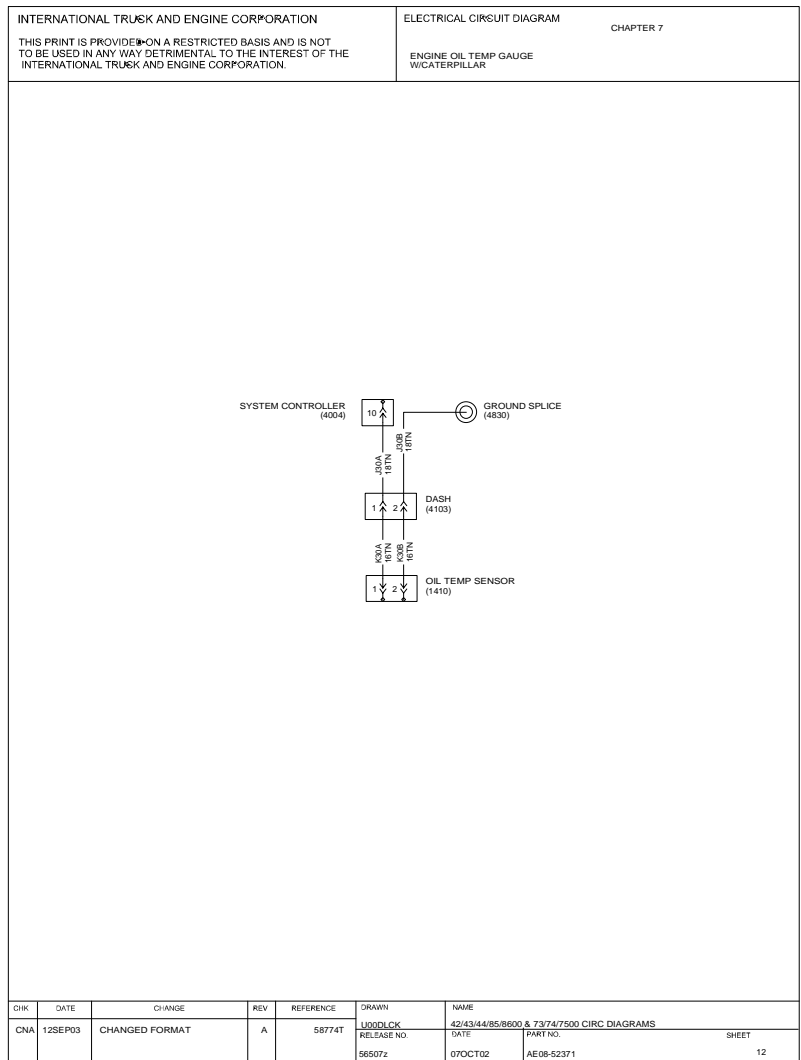


Figure 73 Engine Oil Temperature Gauge With Caterpillar

7.13. FRONT AXLE ENGAGEMENT LAMP, P. 13

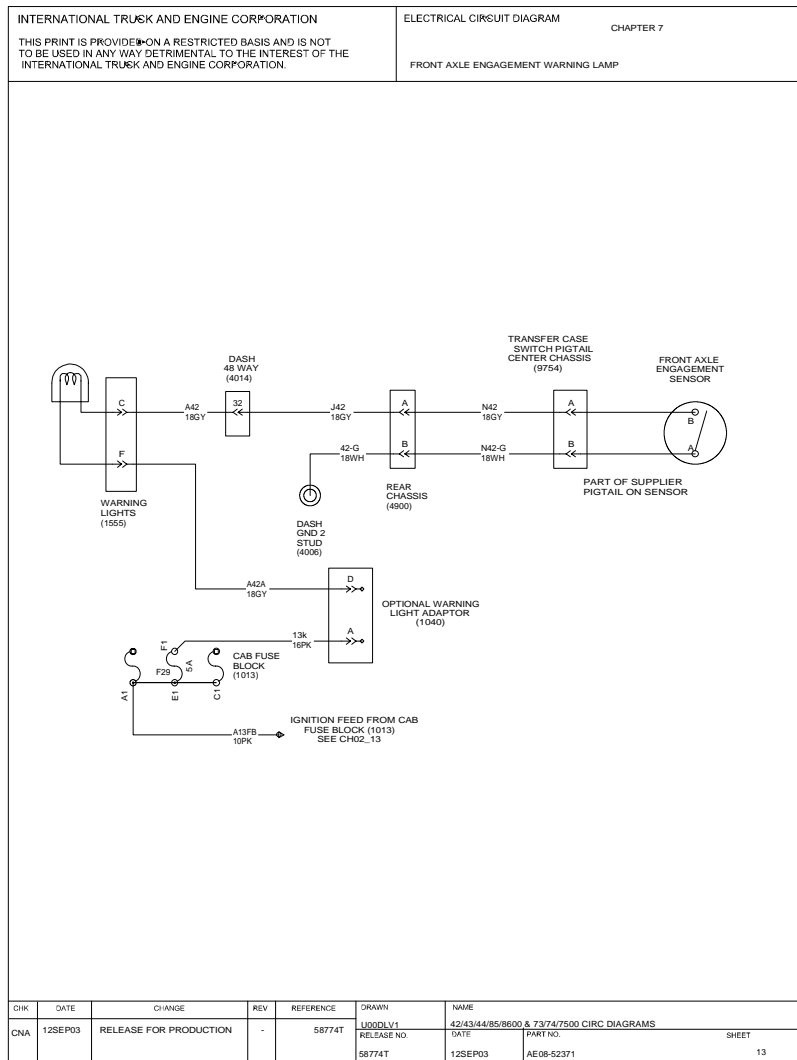


Figure 74 Front Axle Engagement Lamp

## 8. LIGHTS (CHAPTER 8)

### 8.1. BACK UP LIGHTS, P. 1

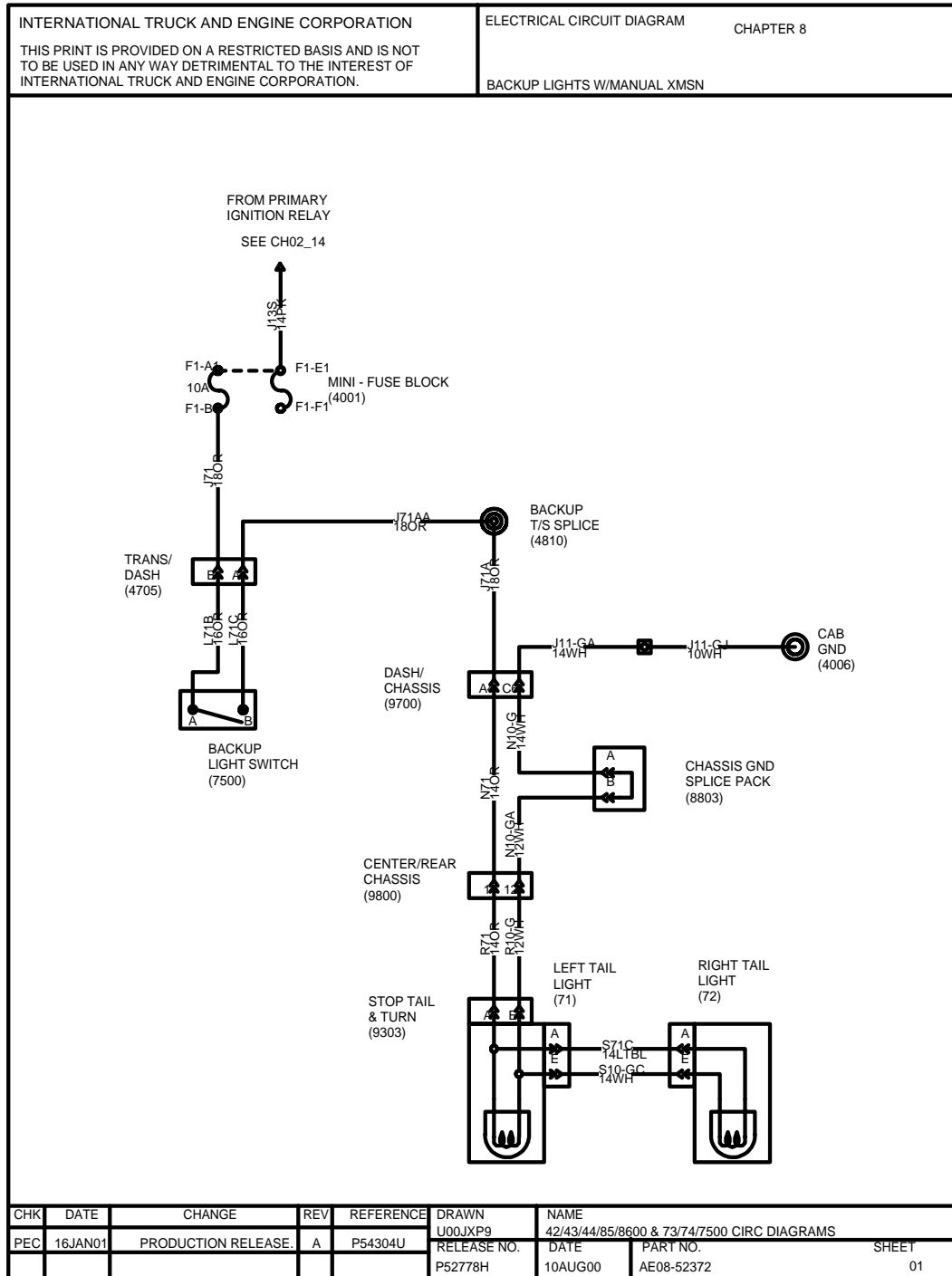


Figure 75 Back Up Lights

8.2. LIGHT SYSTEMS — CLEARANCE, MARKER, PARK, TAIL, TURN AND STOP LAMPS, P. 2

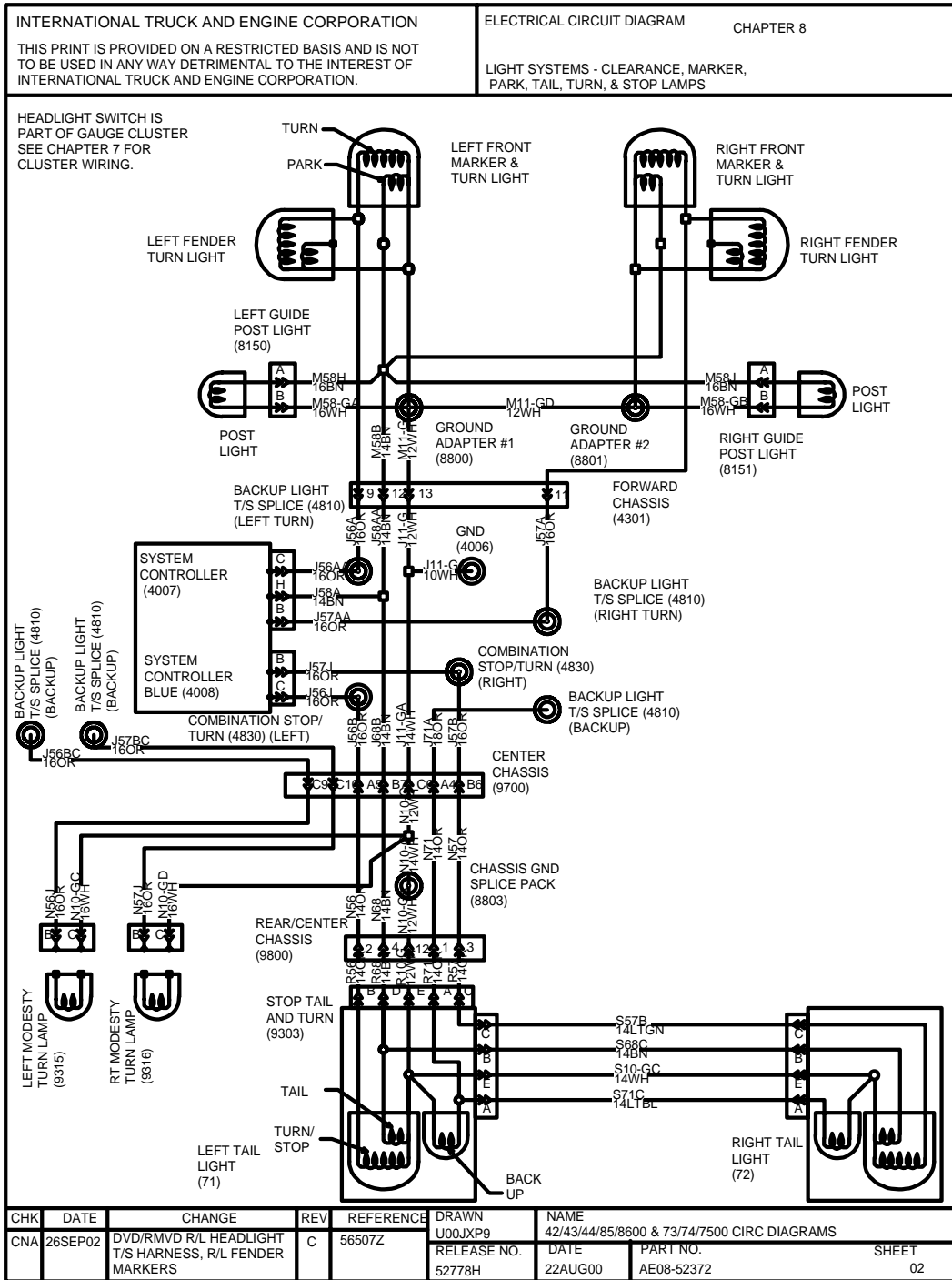
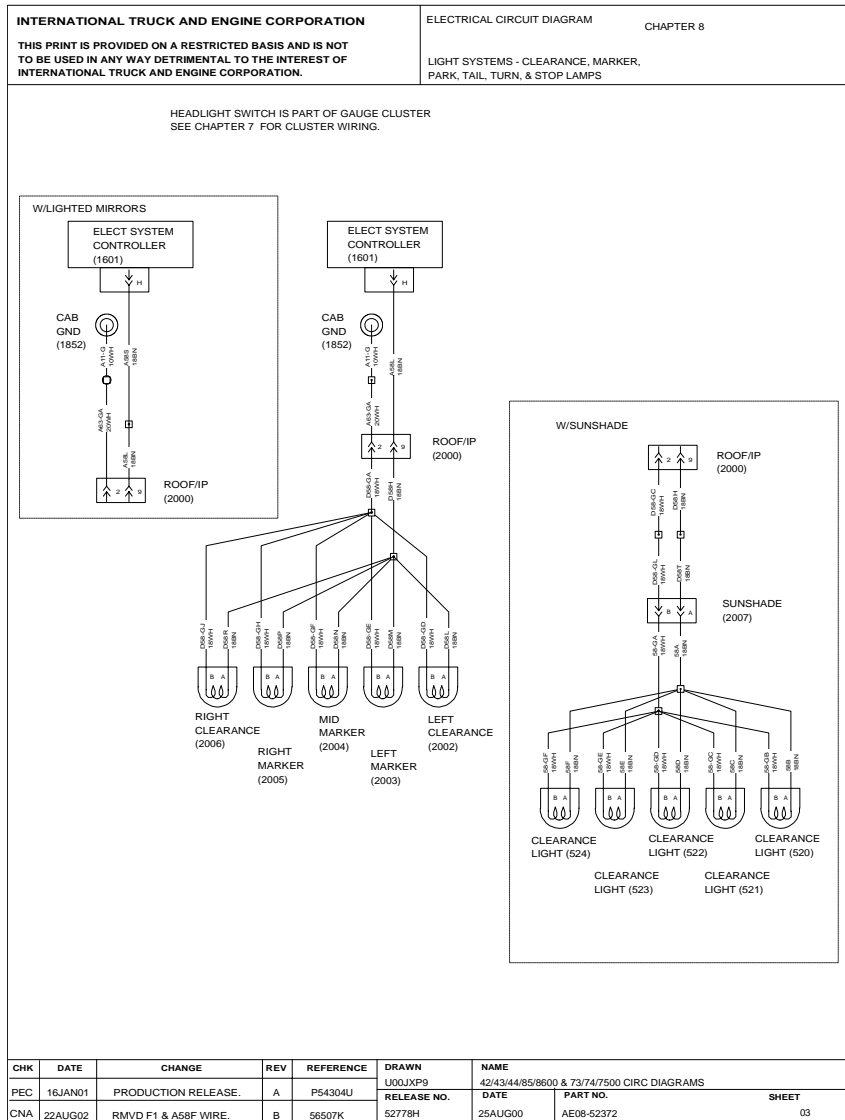


Figure 76 Light Systems — Clearance, Marker, Park, Tail, Turn and Stop Lamps

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



**Figure 77 Light Systems — Clearance, Marker, Park, Tail, Turn and Stop Lamps (Cont.)**



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

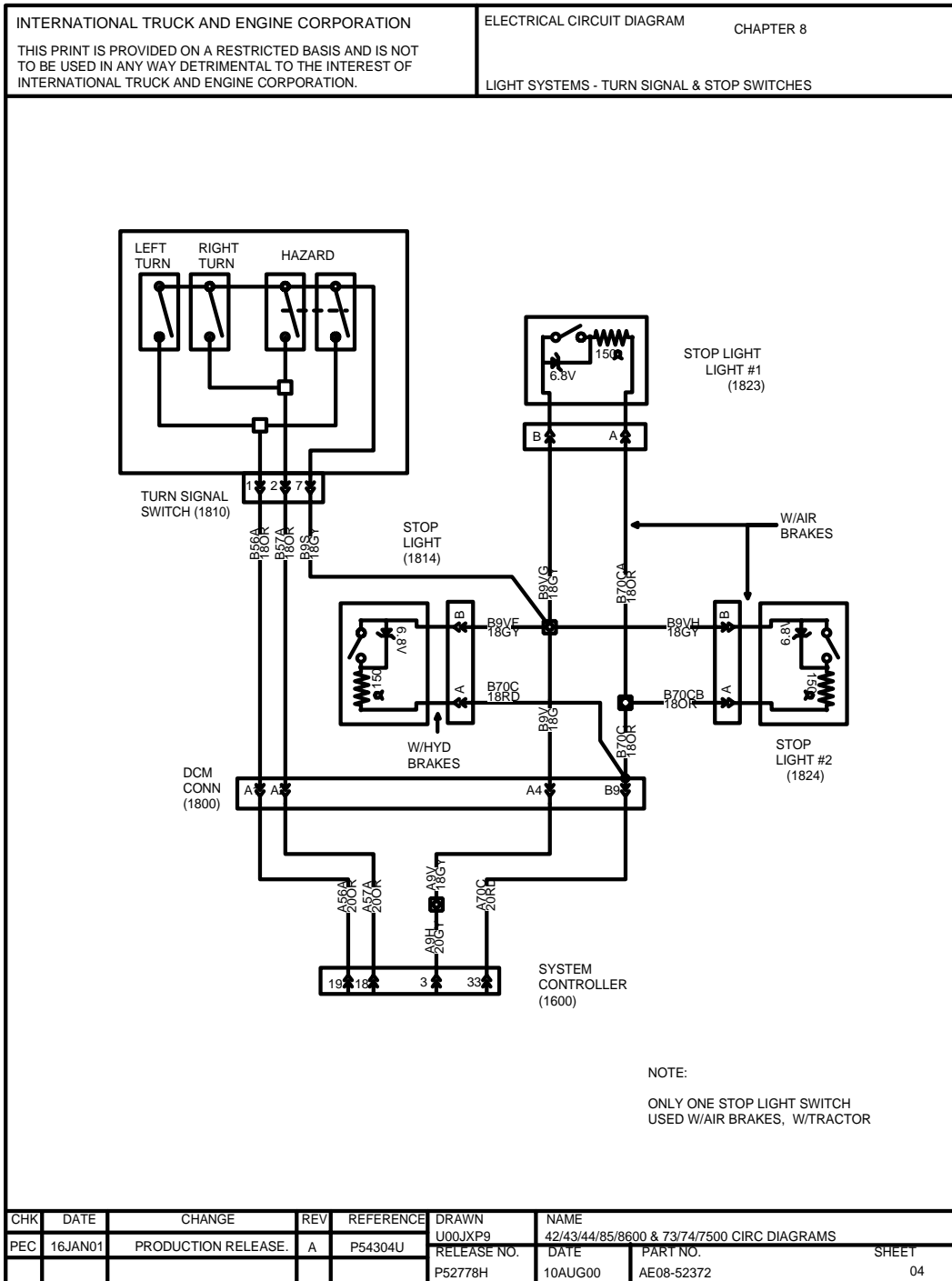


Figure 78 Light Systems — Turn Signal and Stop Switches

8.5. DOME LIGHT, MAP LIGHT, P. 5

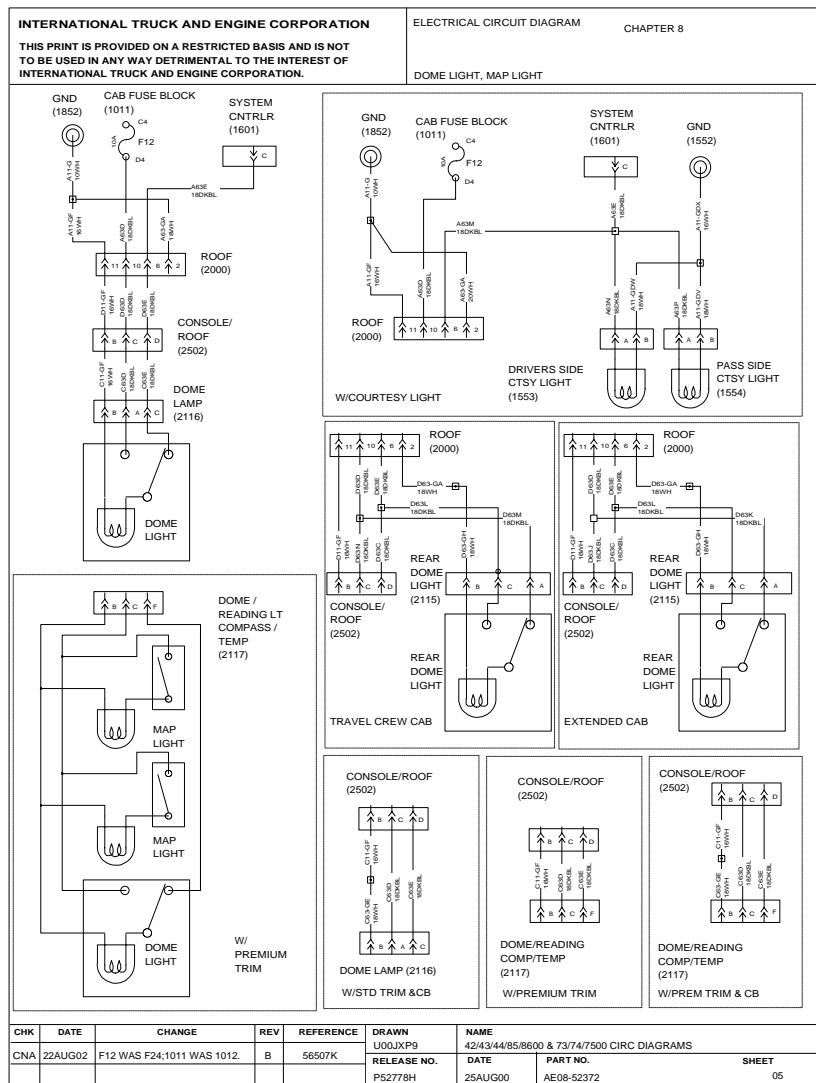


Figure 79 Dome Light, Map Light

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

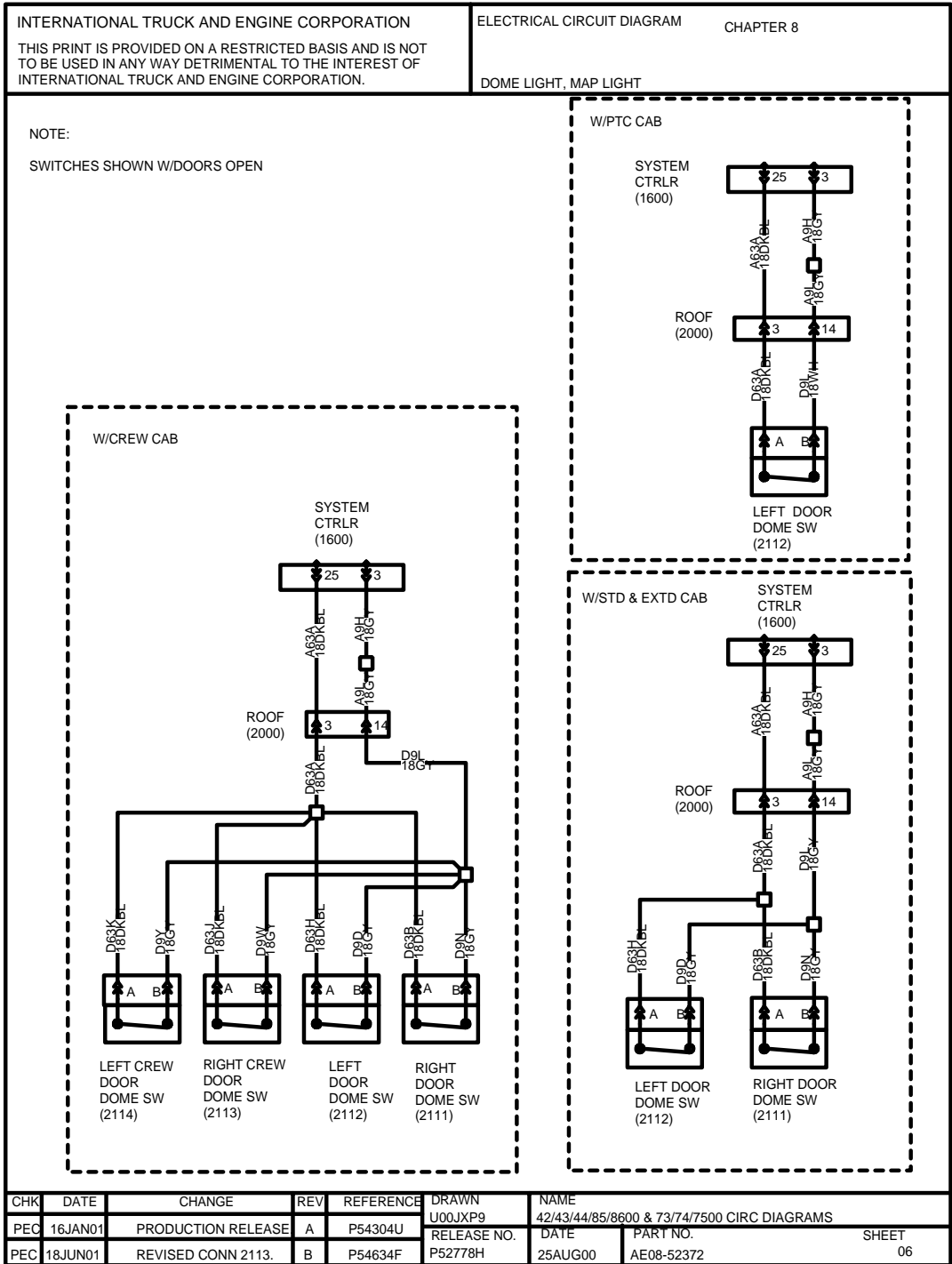


Figure 80 Dome Light, Map Light (Cont.)

8.7. FOG LIGHT AND WORK LIGHT, P. 7

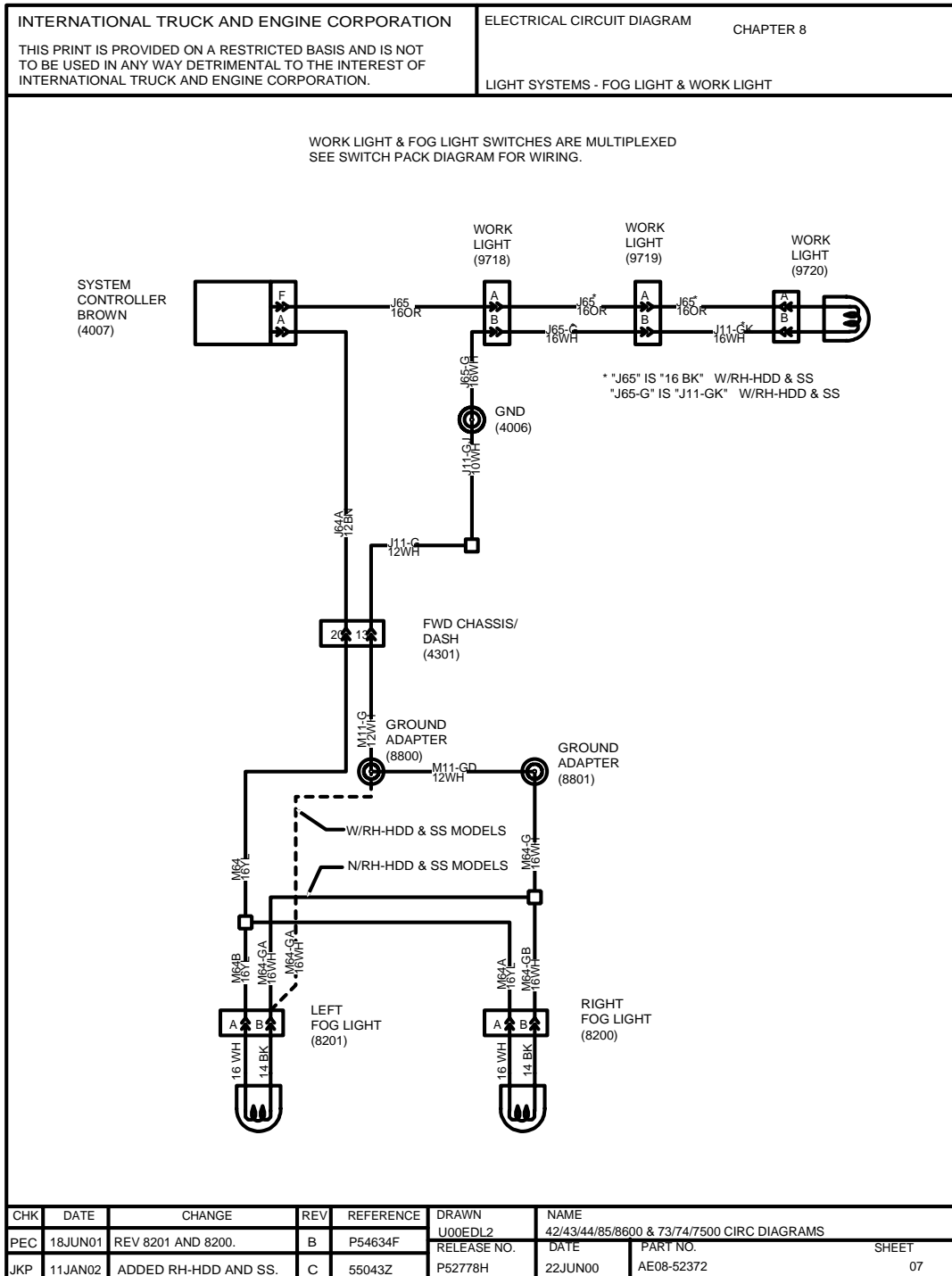


Figure 81 Fog Light and Work Light

8.8. HEADLIGHTS, P. 8

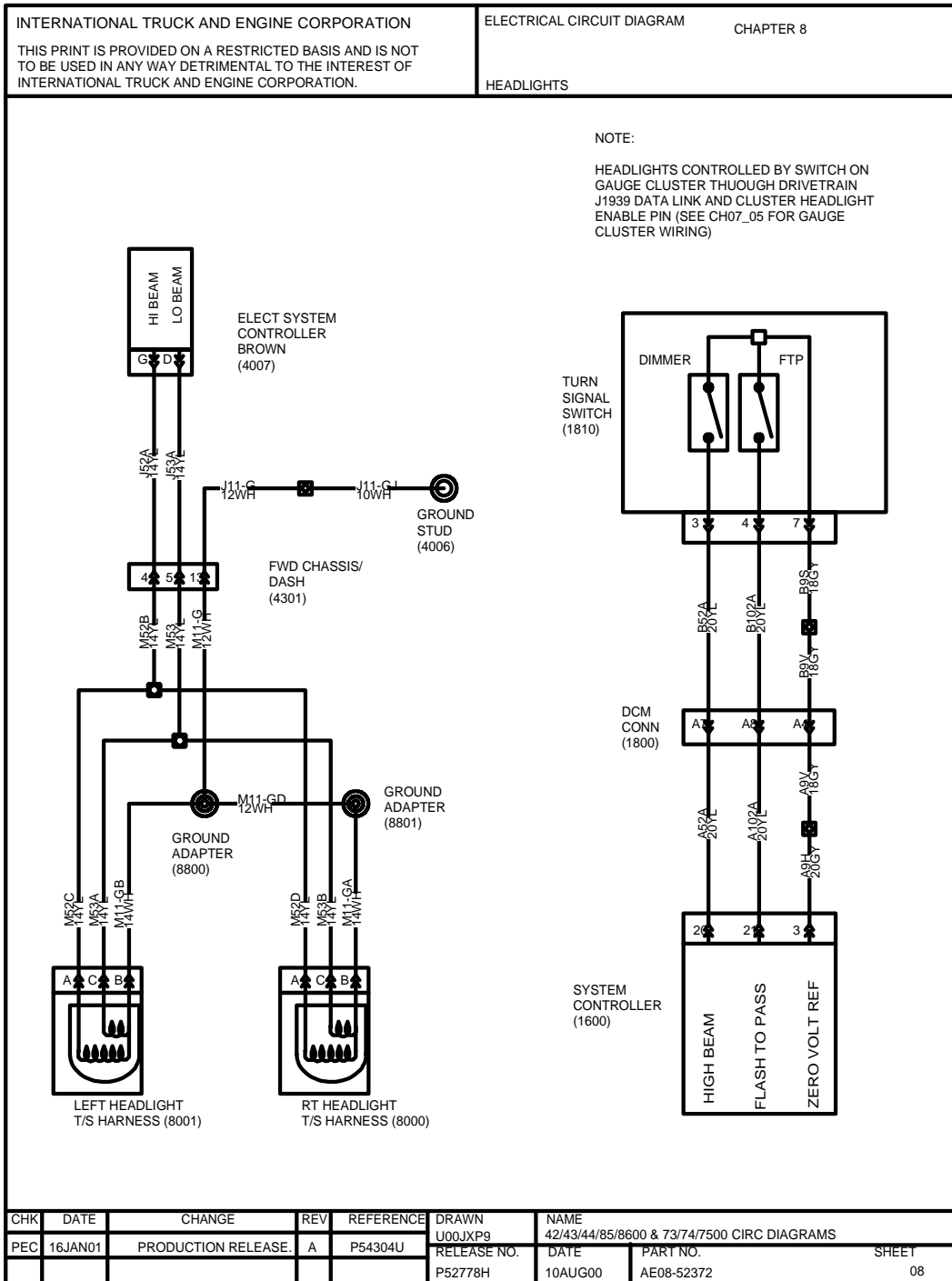


Figure 82 Headlights

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

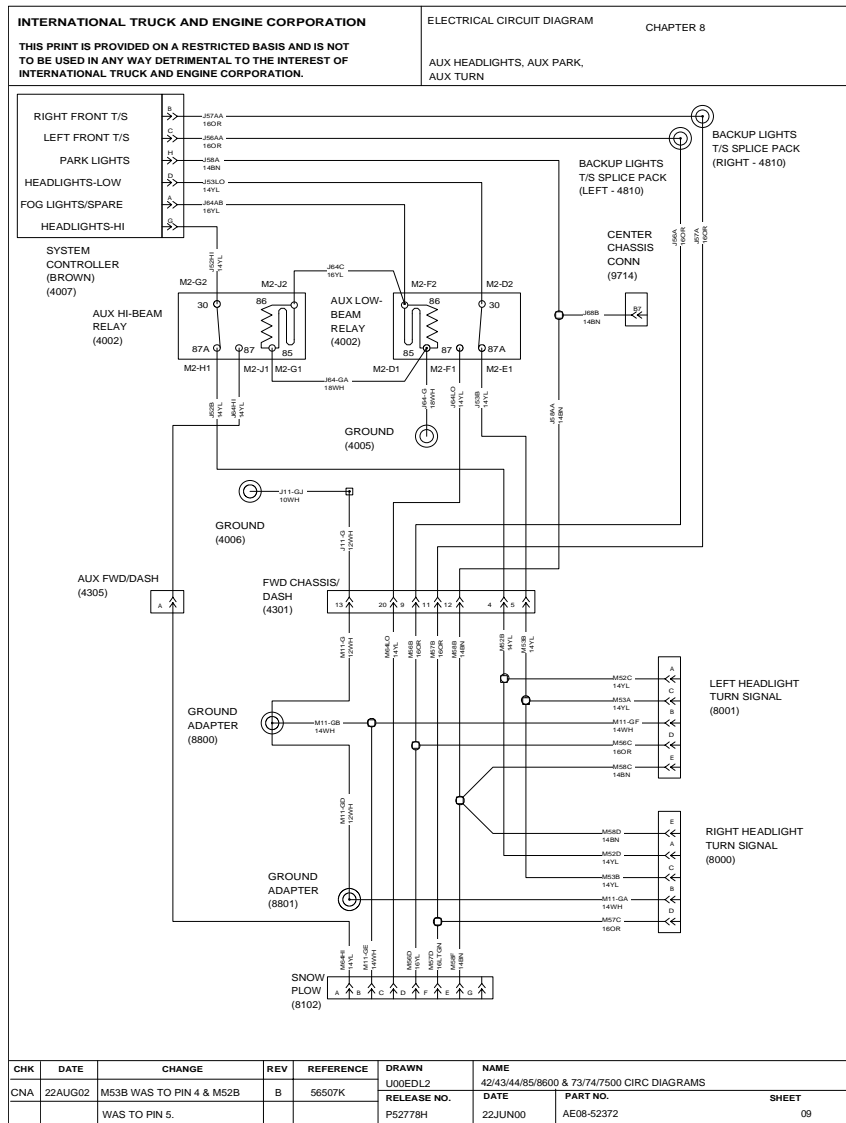


Figure 83 Aux. Headlights, Aux. Park, Aux Turn

8.10. PANEL LIGHTS, P. 10

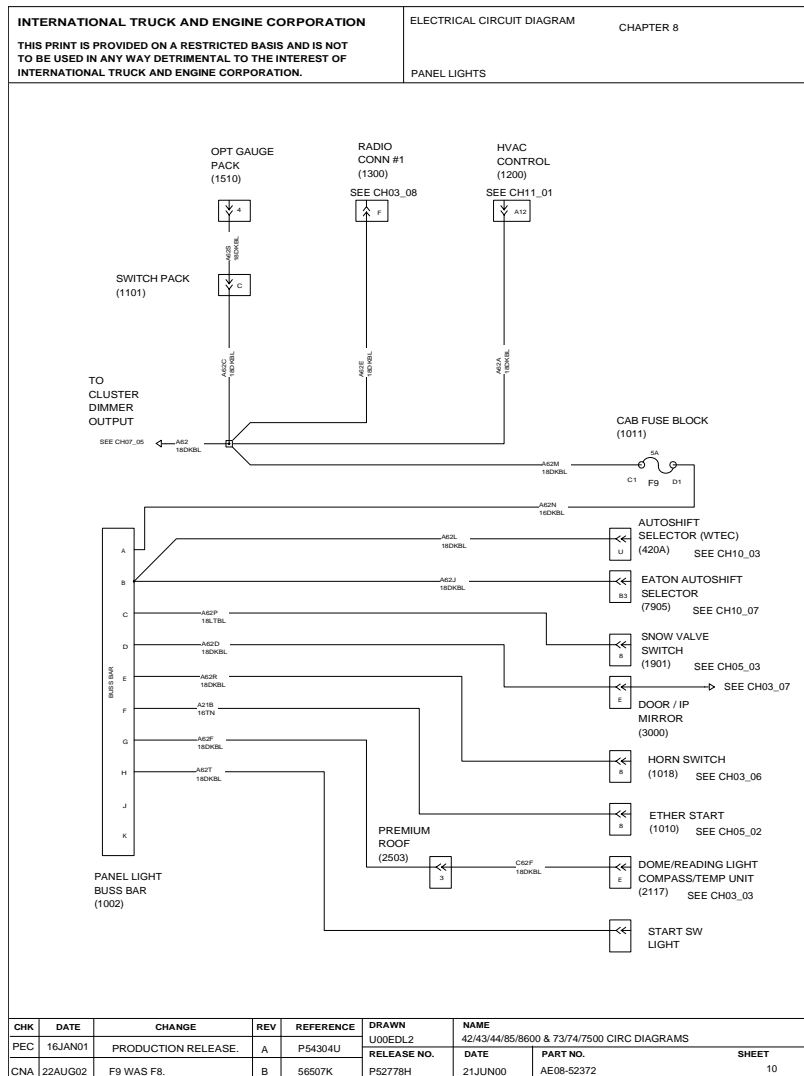


Figure 84 Panel Lights

## 9. CHASSIS ACCESSORIES (CHAPTER 9)

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

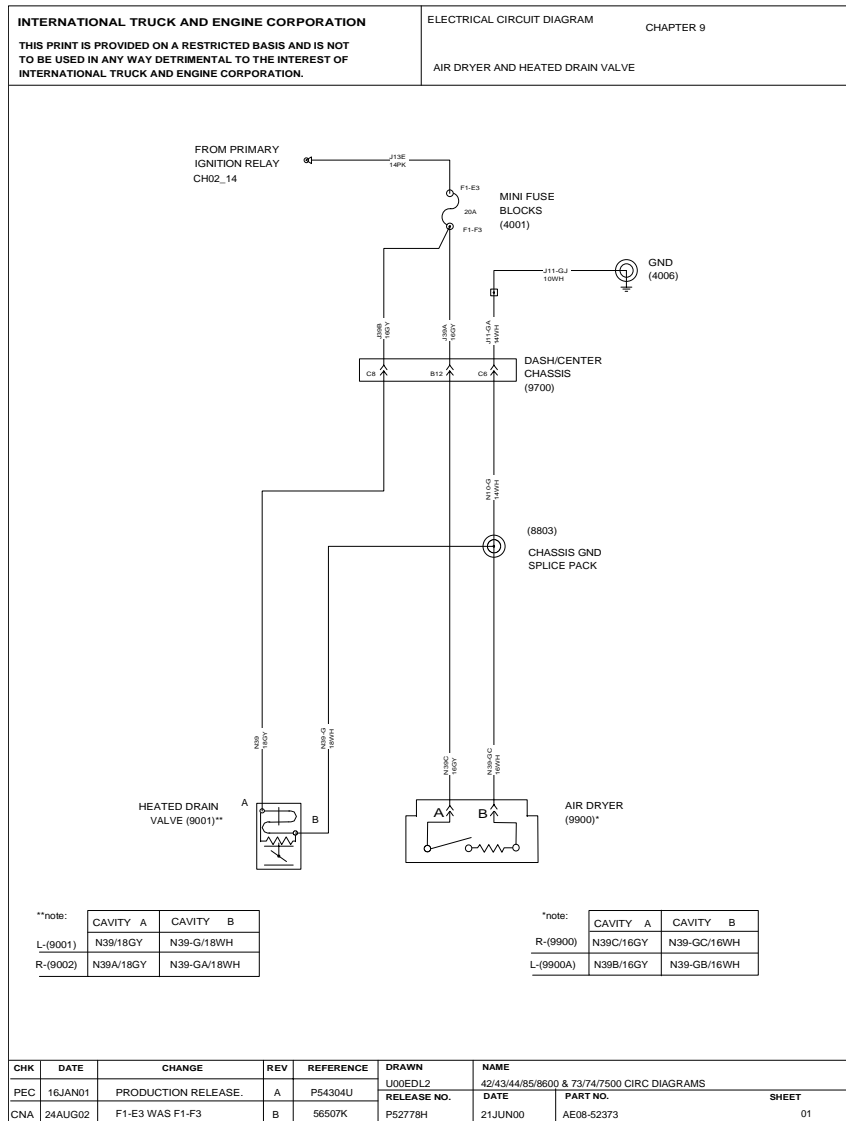


Figure 85 Air Dryer and Heated Drain Valve



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

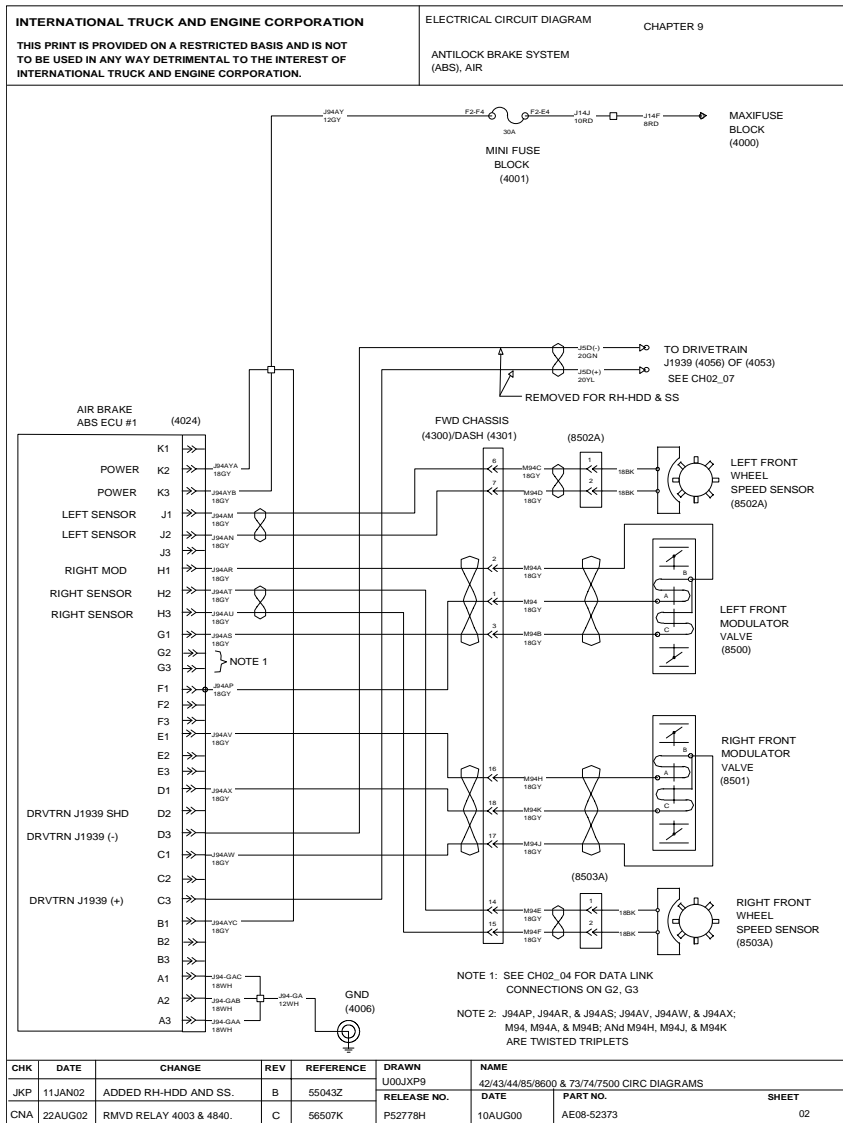


Figure 86 Antilock Brake System (ABS), Air

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

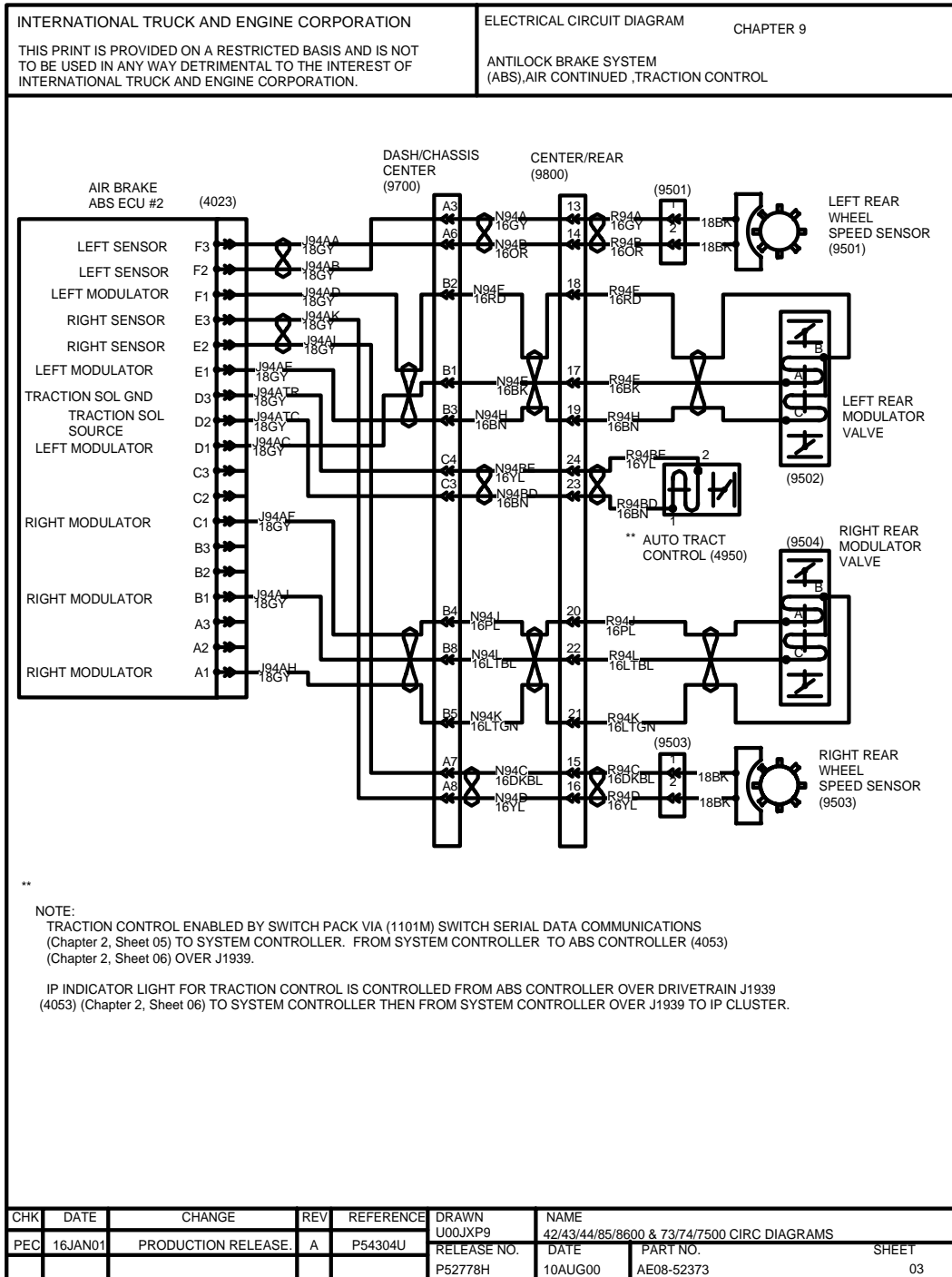


Figure 87 Antilock Brake System (ABS), Air, Traction Control

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

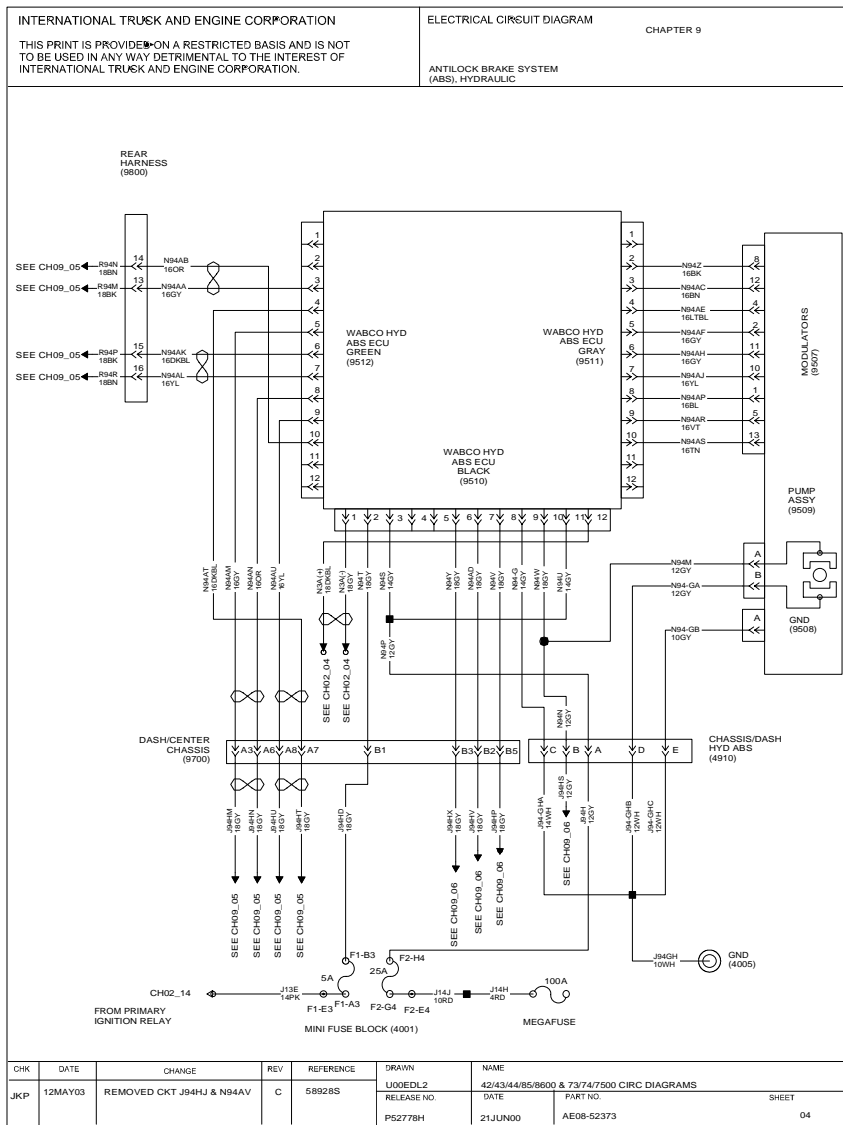


Figure 88 Antilock Brake System (ABS), Hydraulic

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

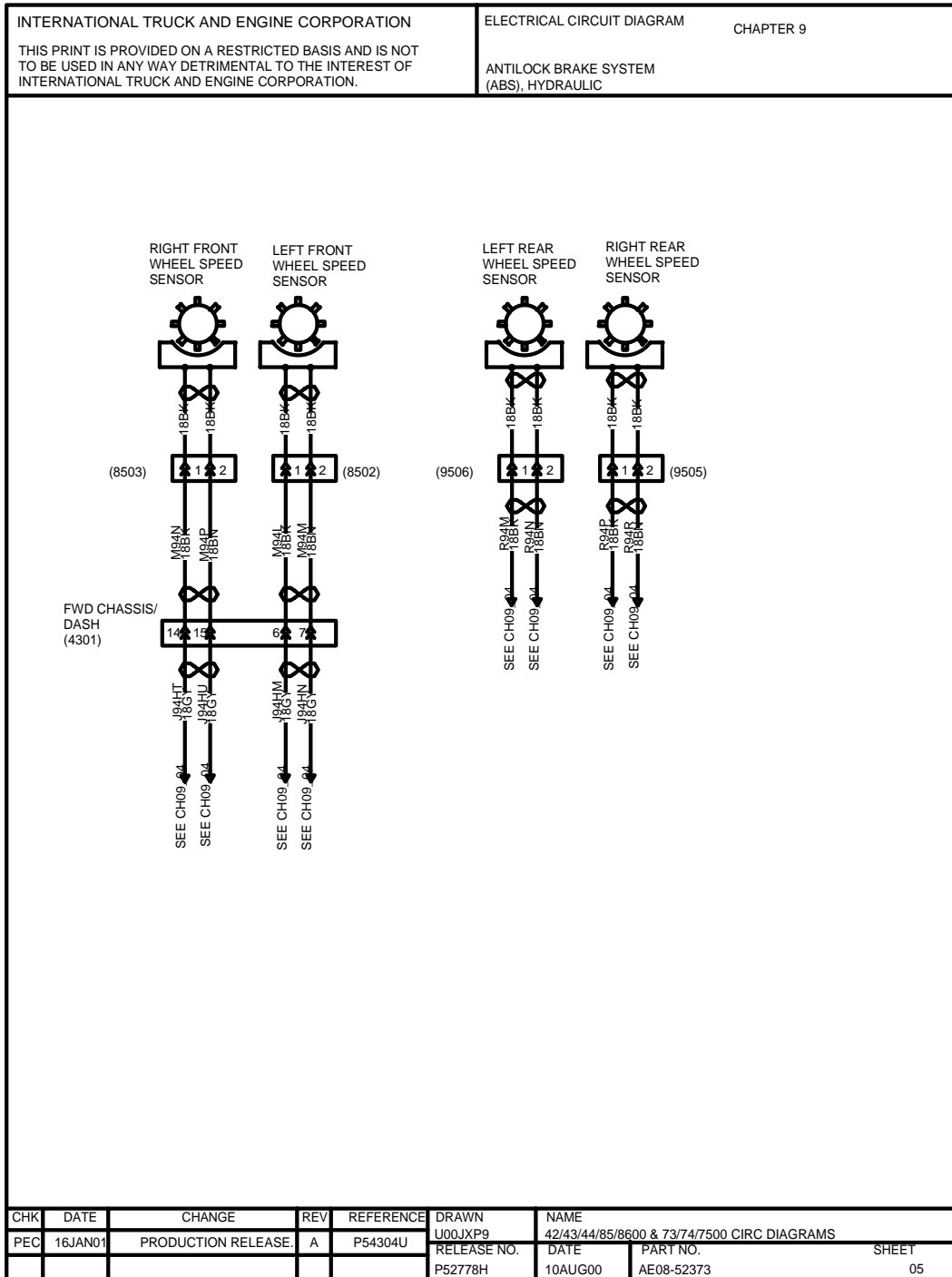


Figure 89 Antilock Brake System (ABS), Hydraulic (Cont.)

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

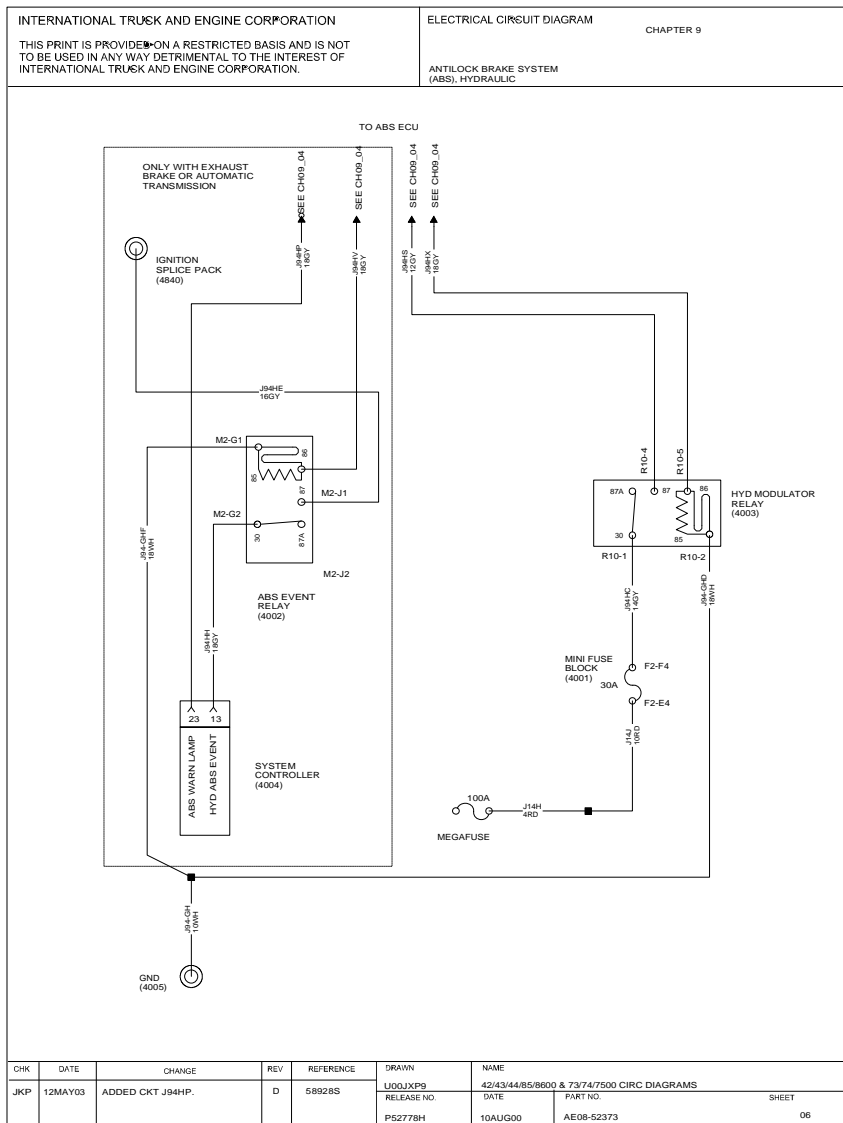


Figure 90 Antilock Brake System (ABS), Hydraulic (Cont.)

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

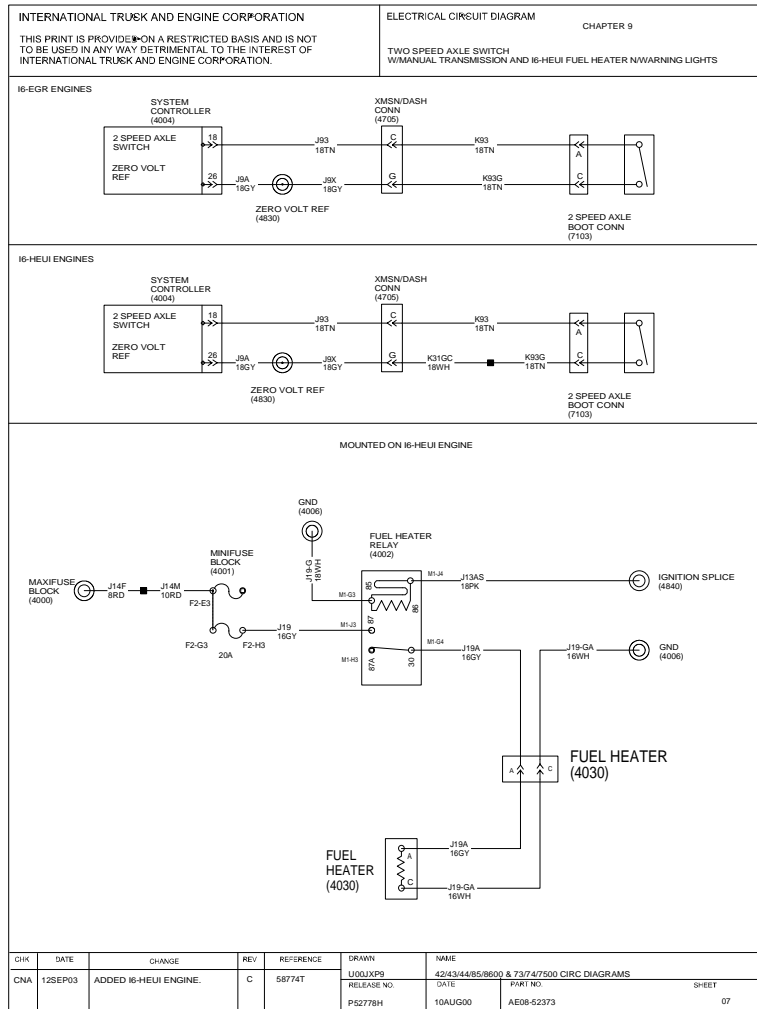


Figure 91 Two Speed Axle Switch With Manual Transmission and I6 HEUI Fuel Heater N/Warn Lights

9.8. BRAKE SYSTEM, HYDRAULIC, P. 8

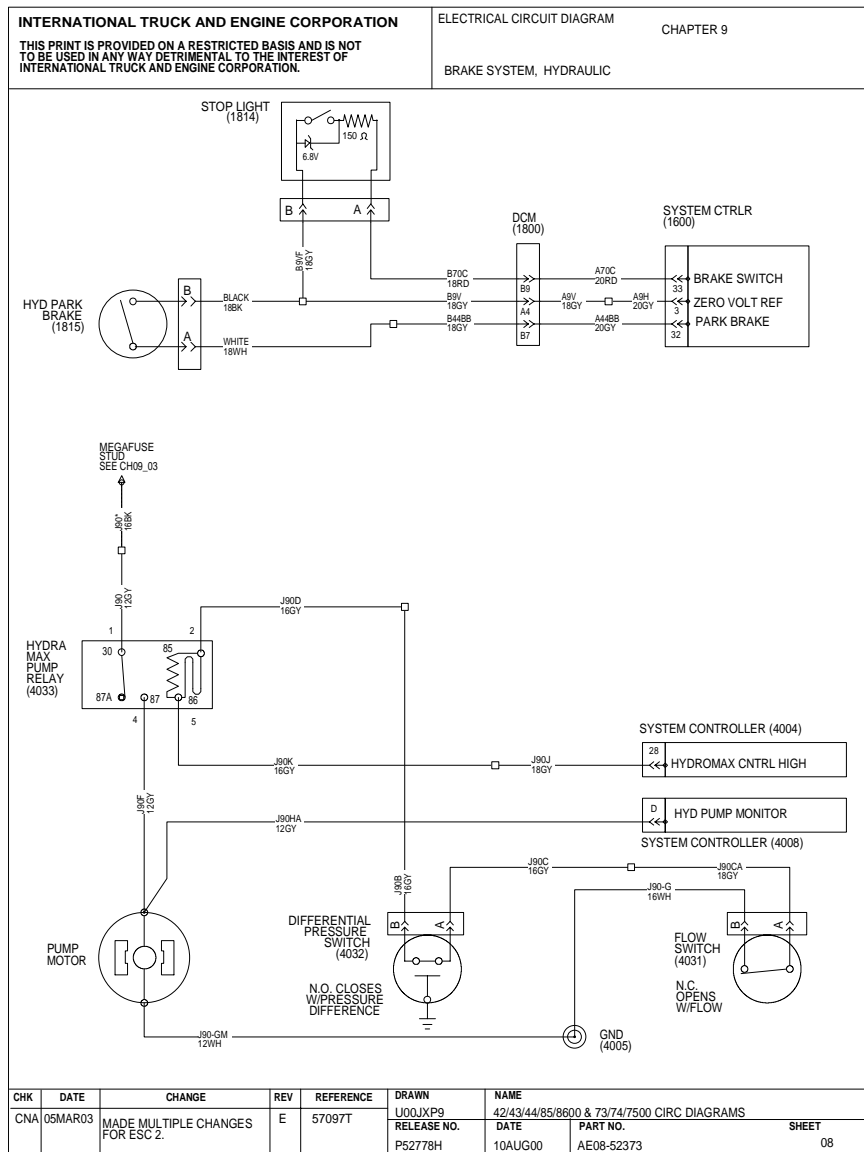


Figure 92 Brake System, Hydraulic

9.9. FUEL TRANSFER PUMP, P. 9

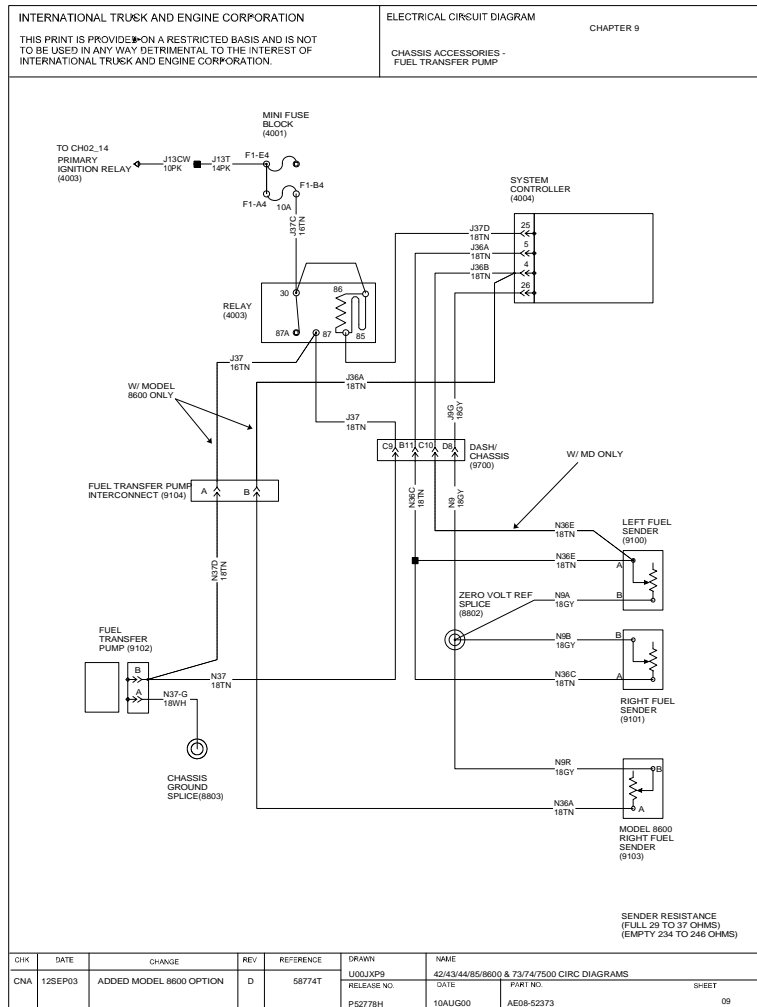


Figure 93 Fuel Transfer Pump



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

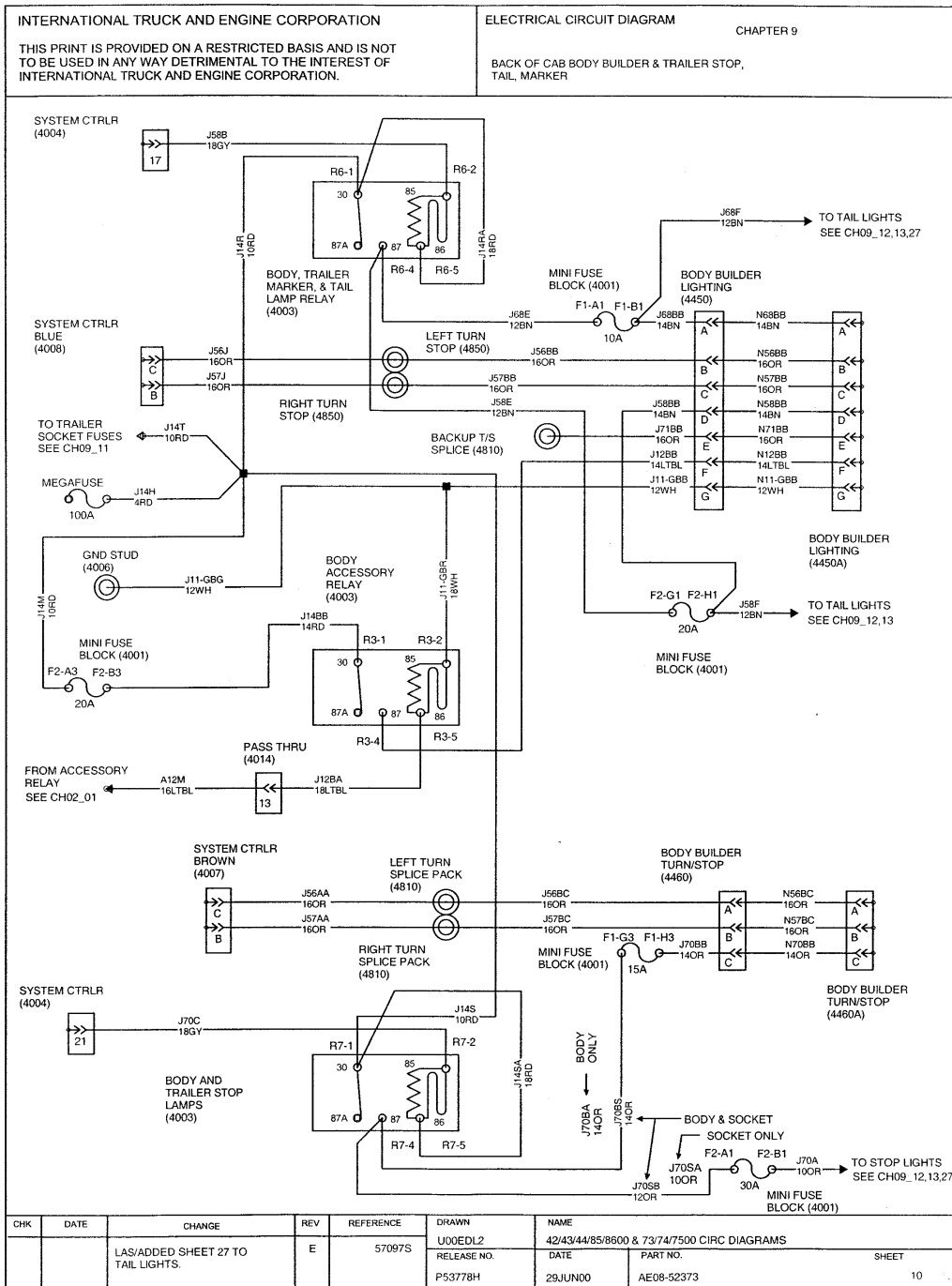
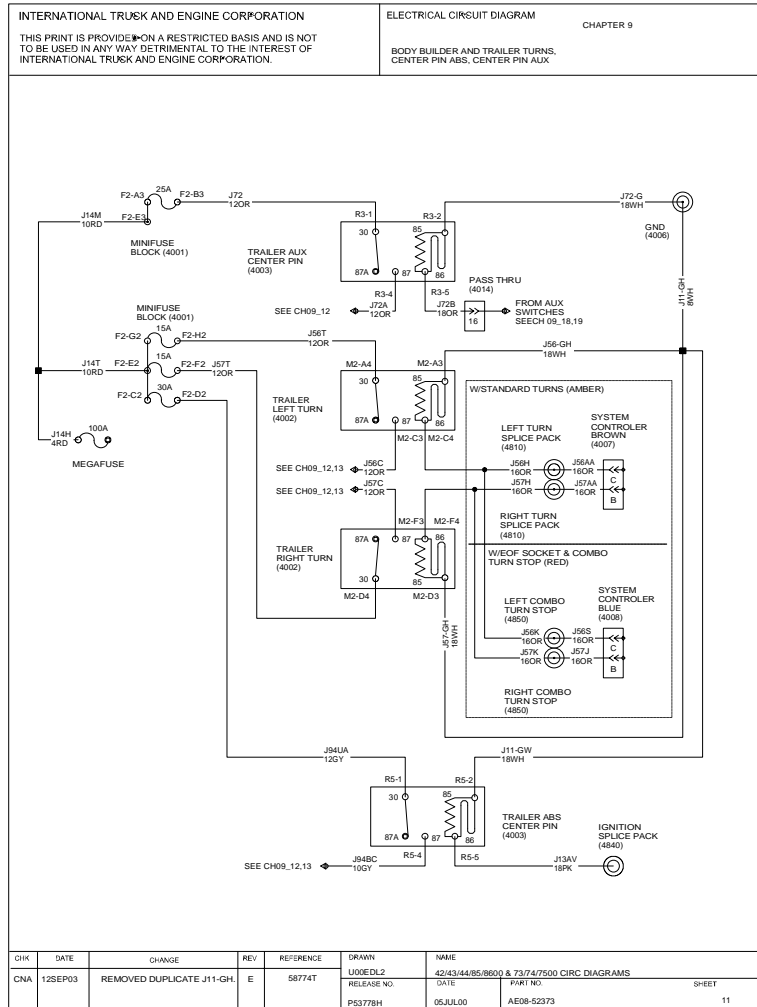


Figure 94 Back of Cab Body Builder and Trailer Stop, Tail, Marker

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



**Figure 95 Body Builder and Trailer Turns, Center Pin ABS, Center Pin Aux**

9.12. BODY BUILDER AND TRAILER SOCKET BACK OF CAB SOCKETS, P. 12

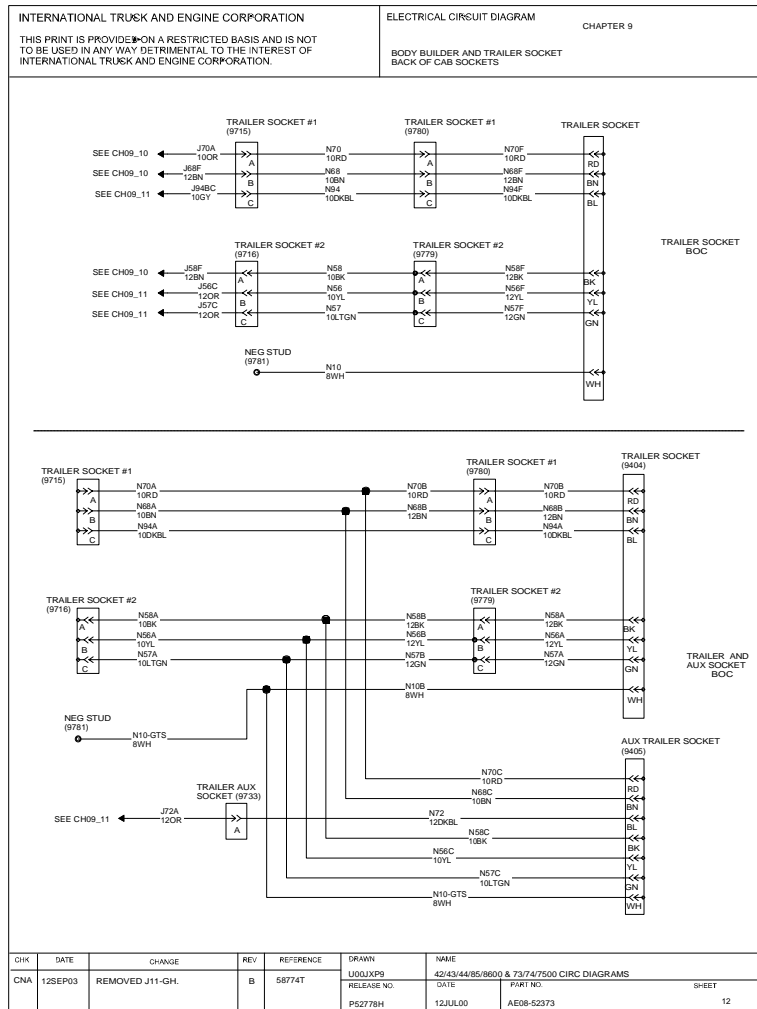


Figure 96 Body Builder and Trailer Socket Back of Cab Sockets

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

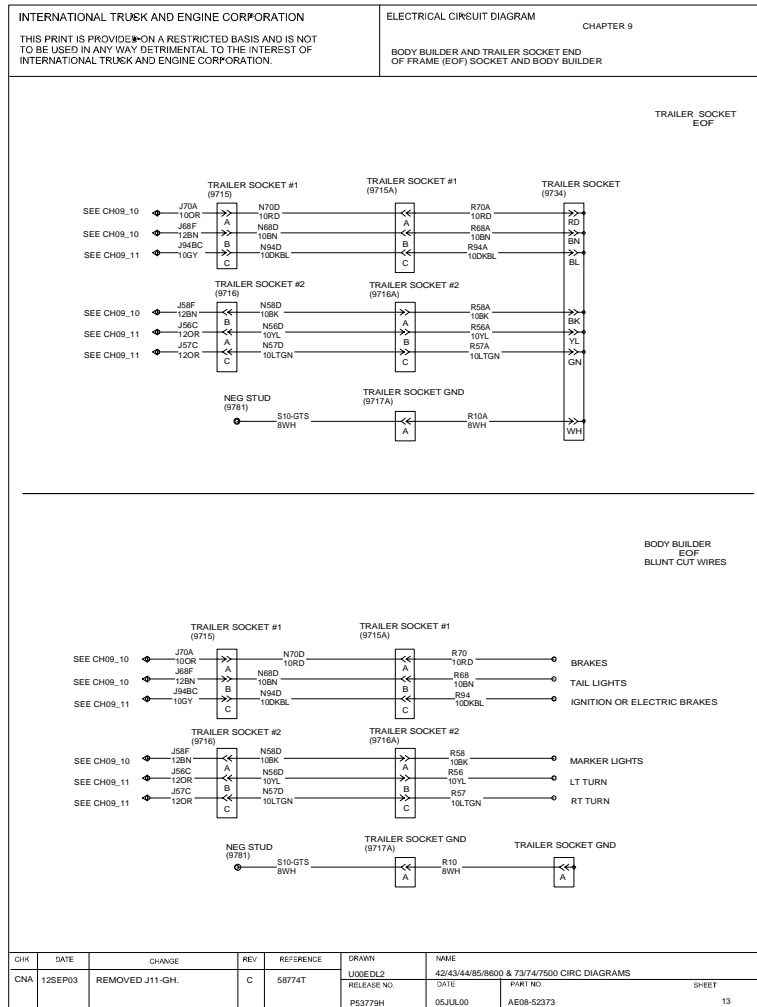


Figure 97 Body Builder and Trailer Socket End of Frame (EOF) Socket and Body Builder

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

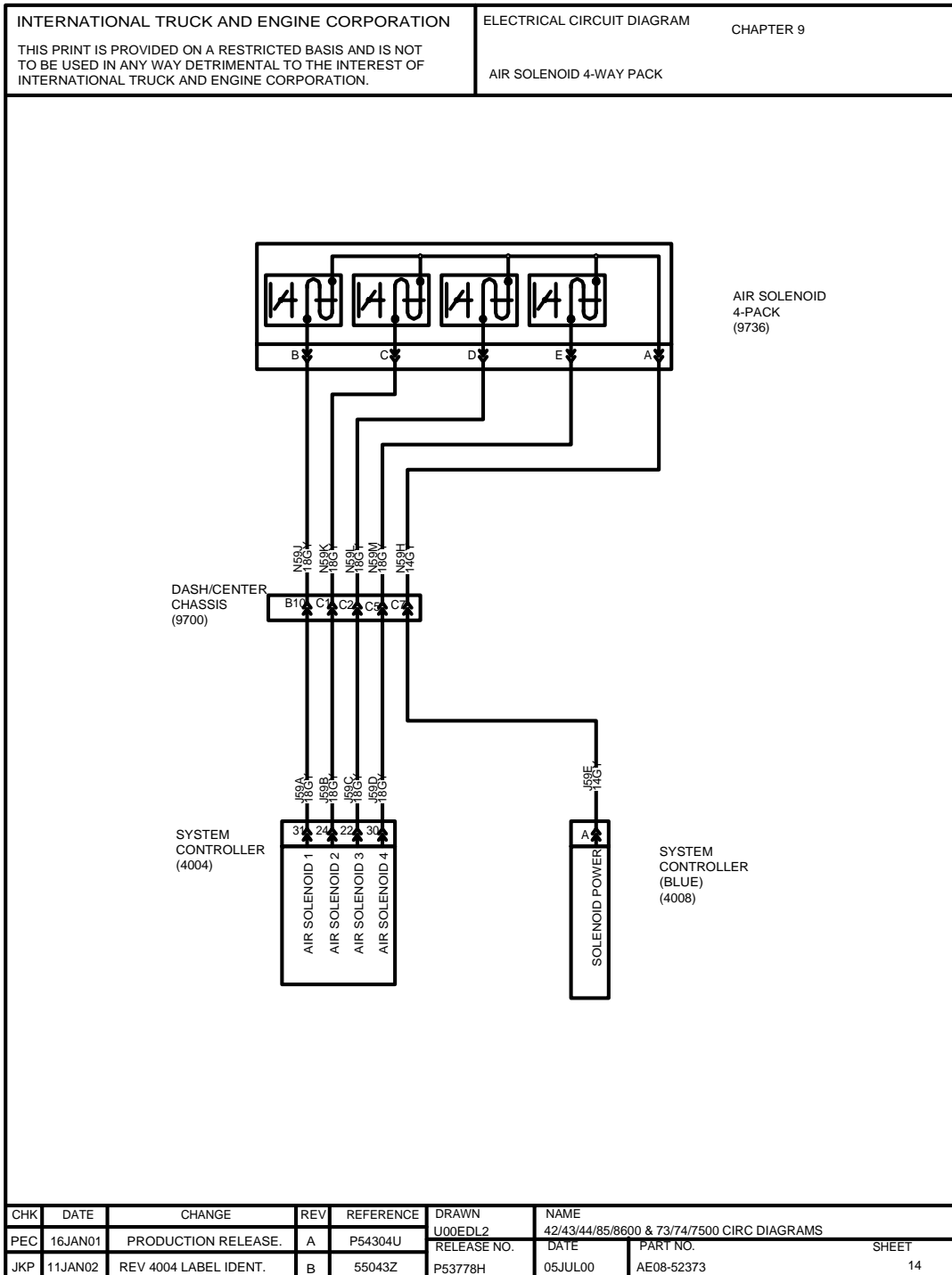


Figure 98 Air Solenoid 4-Way Pack

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

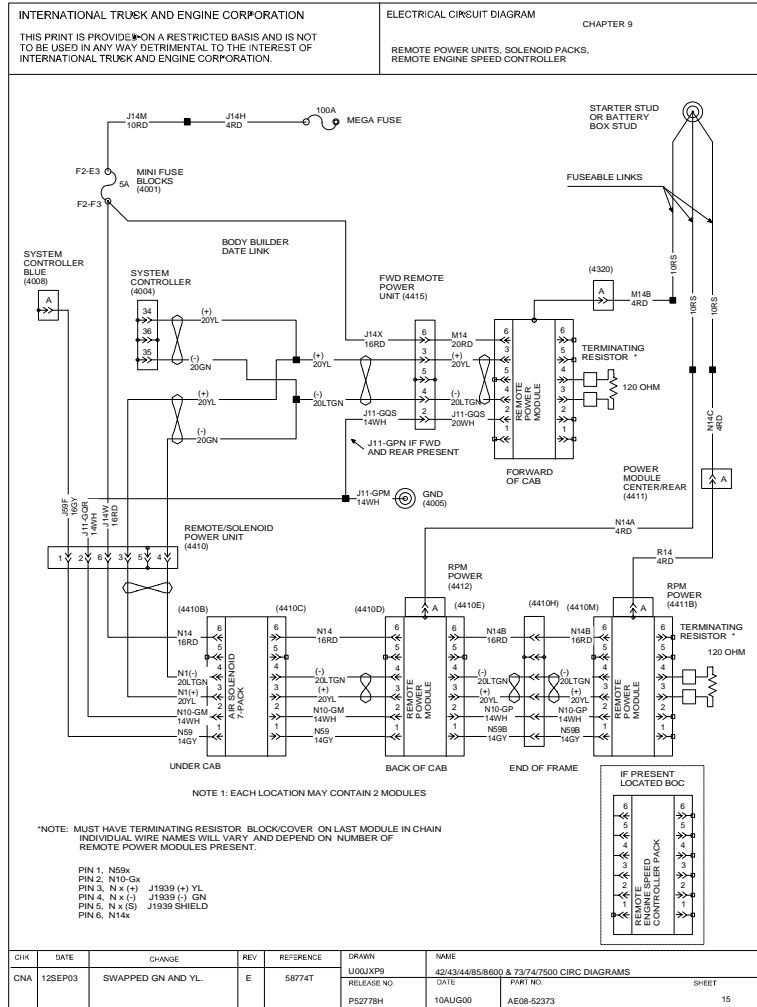


Figure 99 Remote Power Units, Solenoid Packs, Remote Engine Speed Controller

9.16. HYD POWER PARK, 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 - HYD POWER PARK			
DIAGRAM NOT AVAILABLE							
CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	
PEC	16JAN01	PRODUCTION RELEASE.	A	P54304U	U00EDL2	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS	
					RELEASE NO.	DATE	PART NO.
					P52778H	10JUL00	AE08-52373
							SHEET 16

Figure 100 HYD Power Park

9.17. AIR SUSPENSION, P. 17

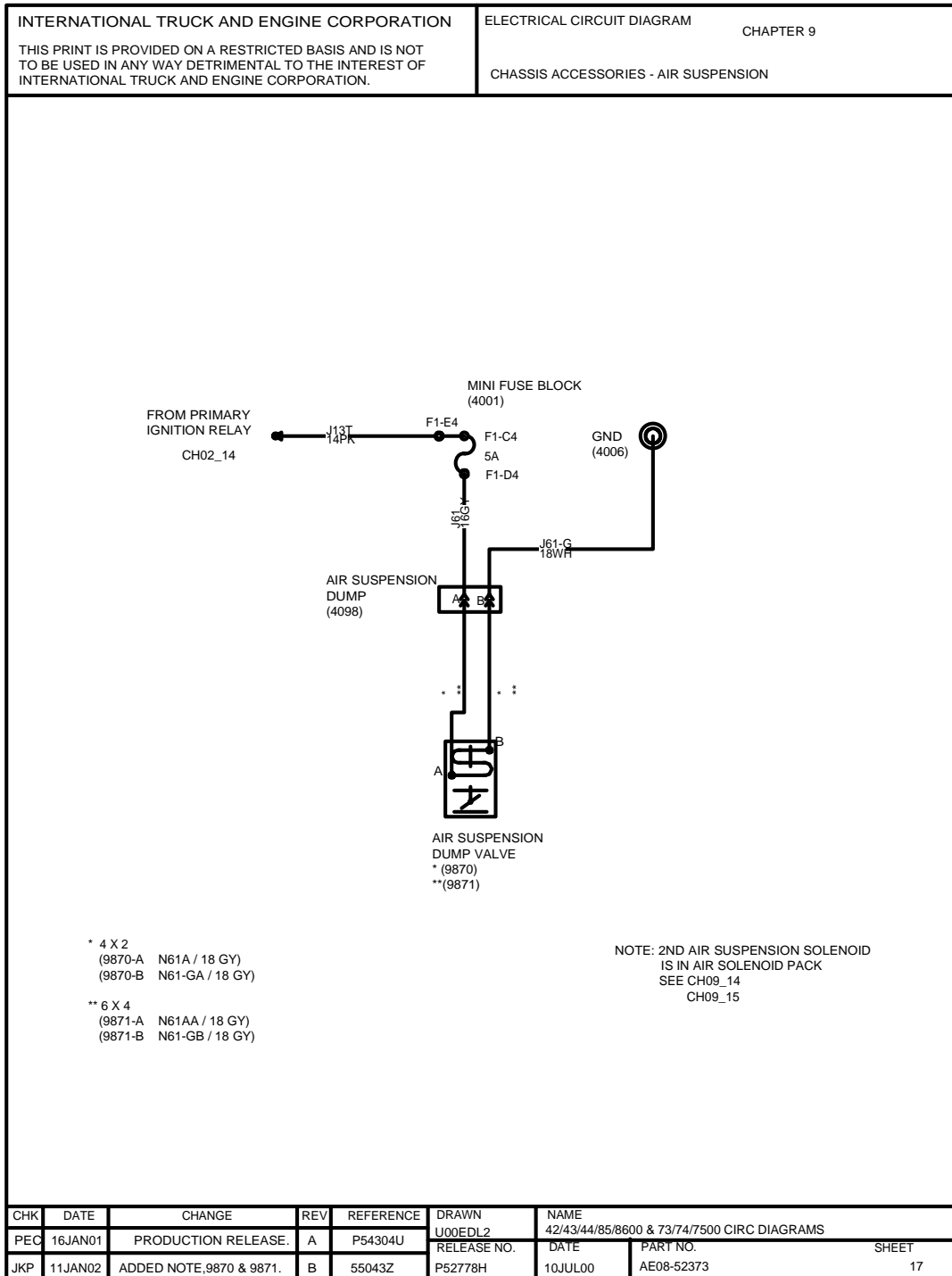


Figure 101 Air Suspension



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

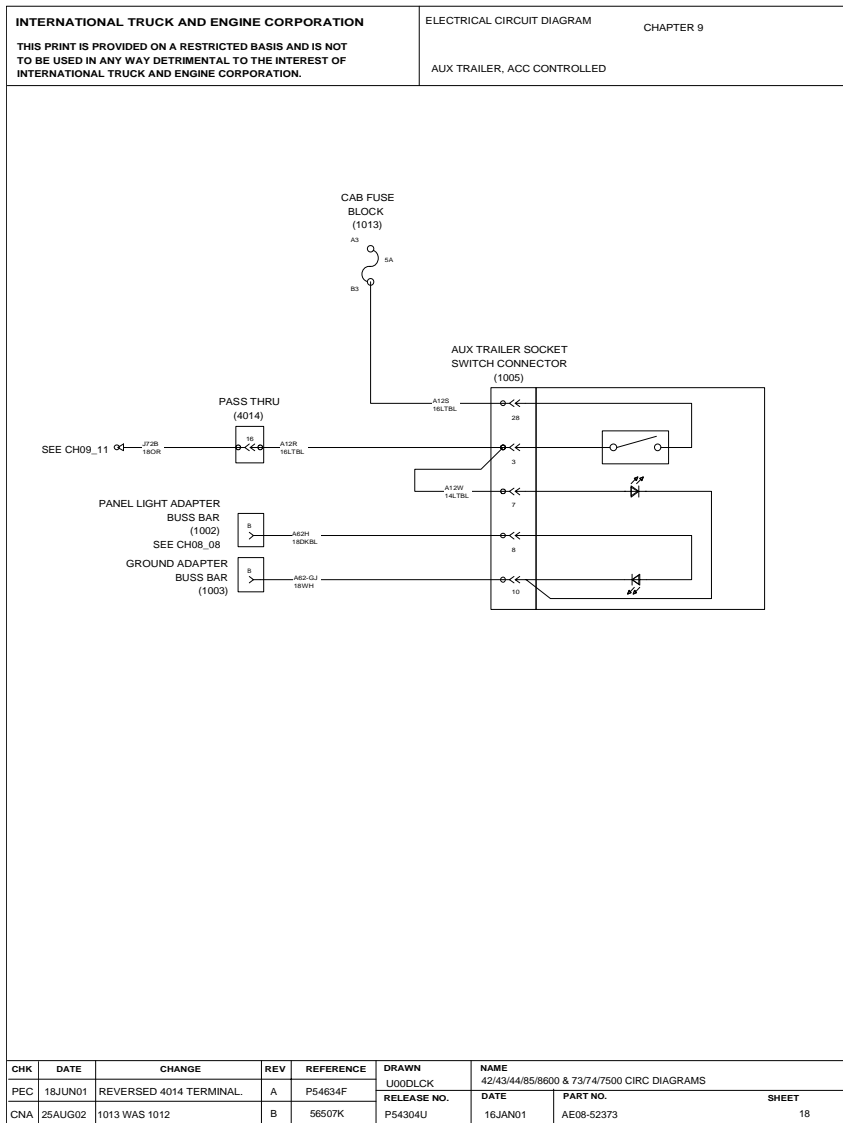


Figure 102 Aux. Trailer, Acc Controlled

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

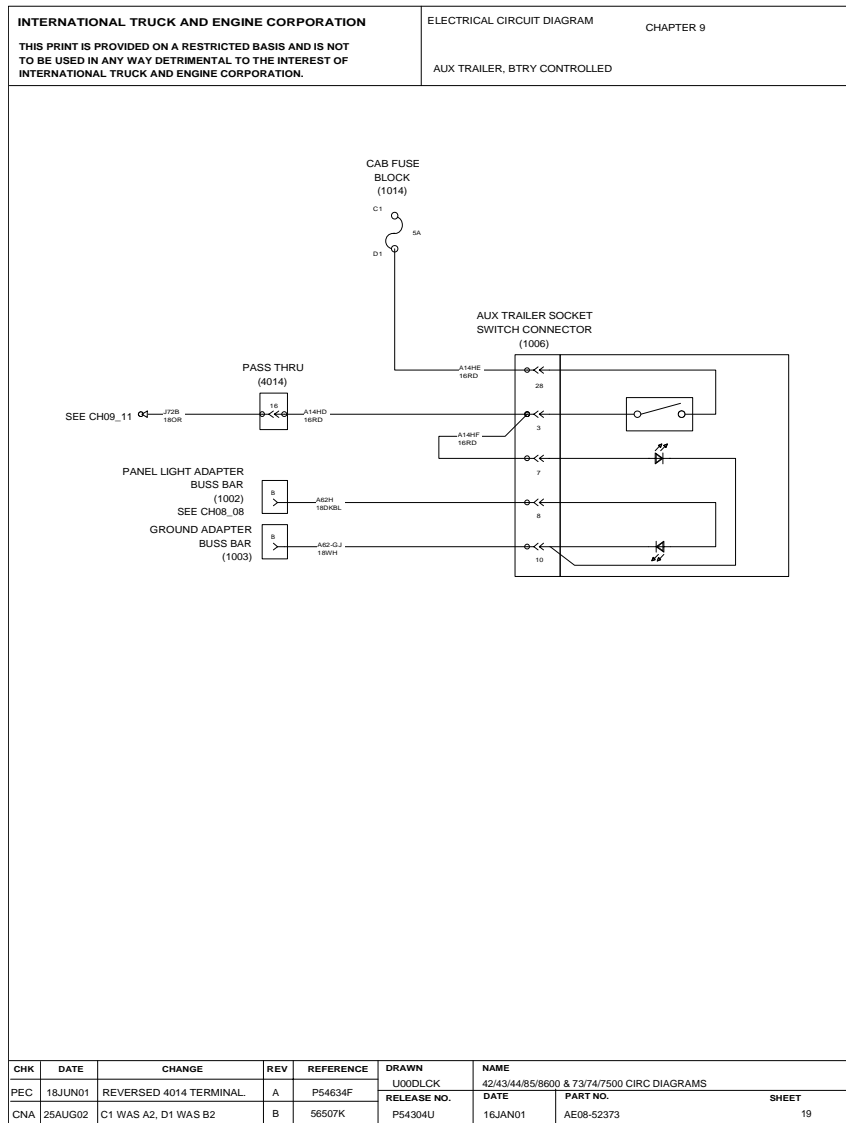


Figure 103 Aux. Trailer, Btry Controlled

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

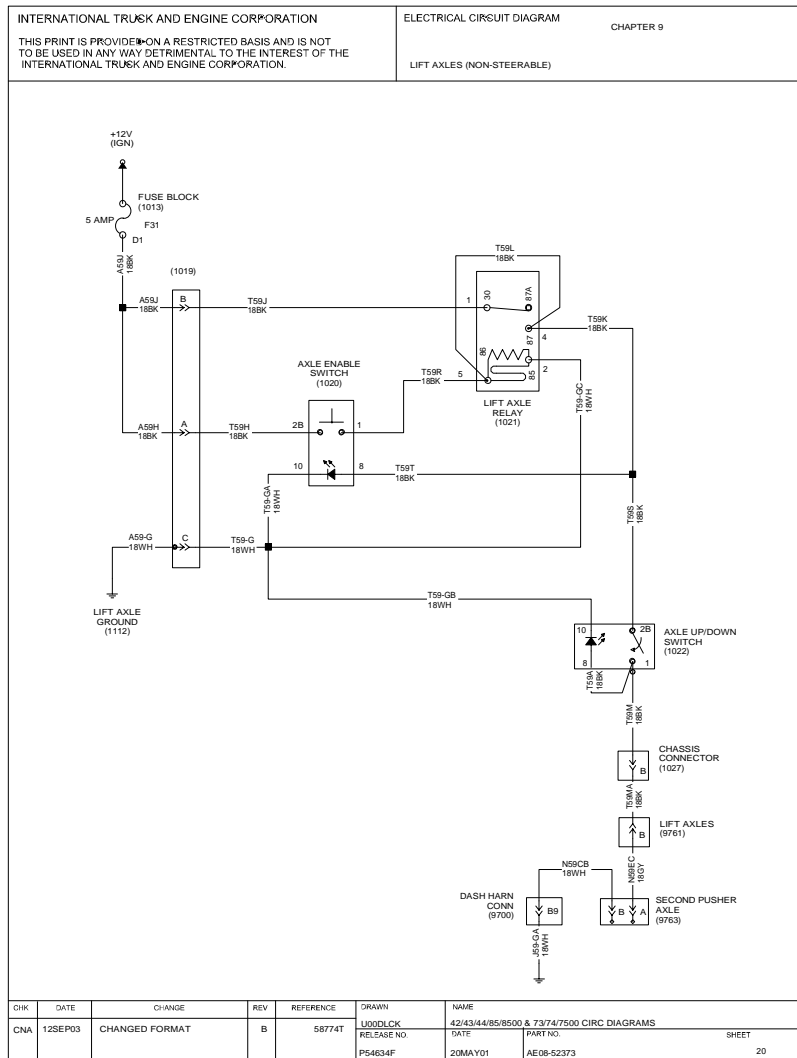


Figure 104 Lift Axles (Non-Steerable)

9.21. LIFT AXLES (STEERABLE), P. 21

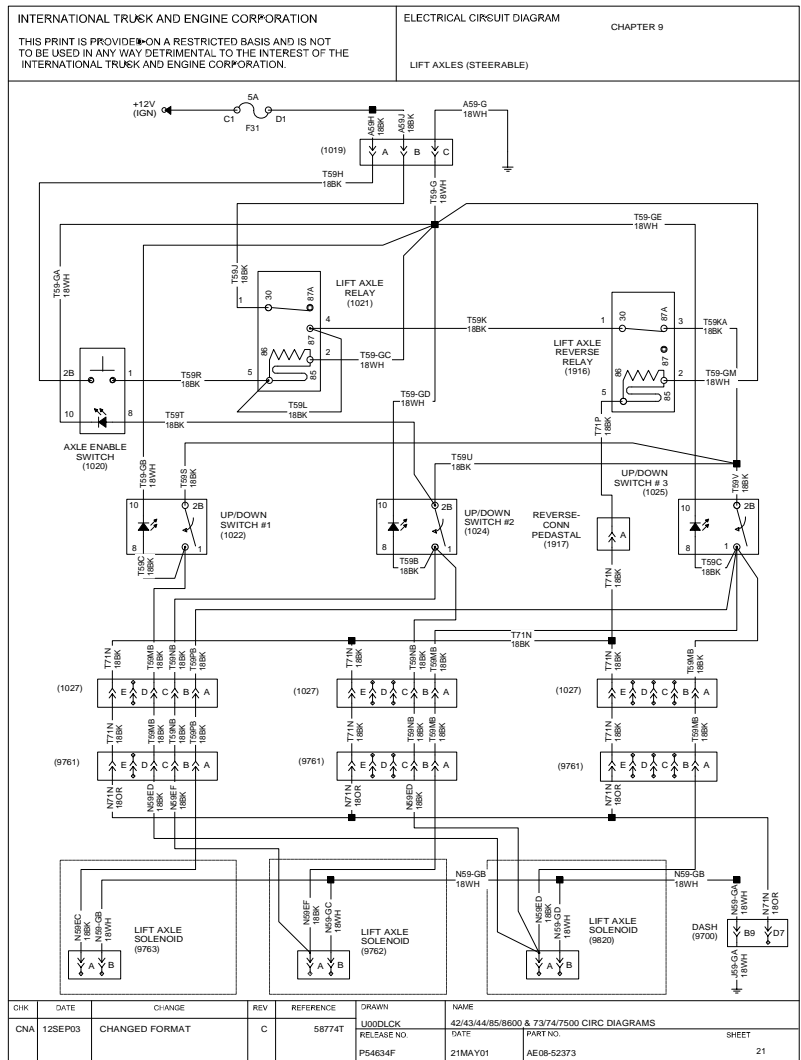


Figure 105 Lift Axles (Non-Steerable)

9.22. AIR ACTUATED PARK BRAKE, P. 22

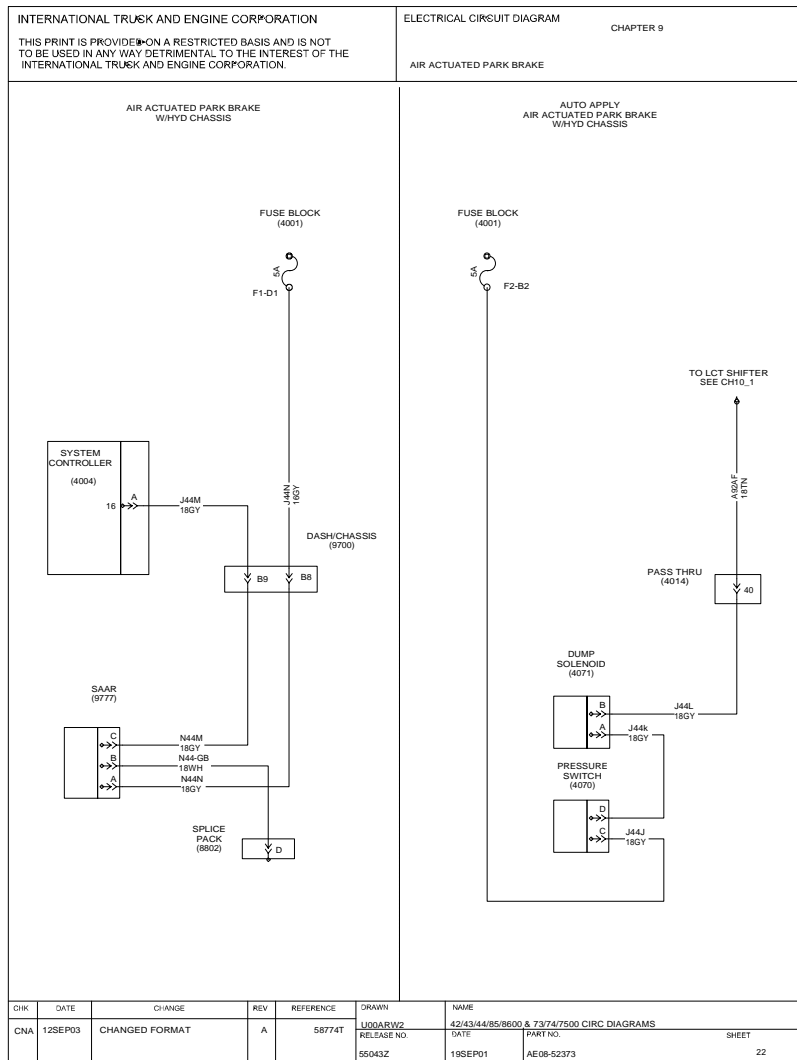


Figure 106 Air Actuated Park Brake

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

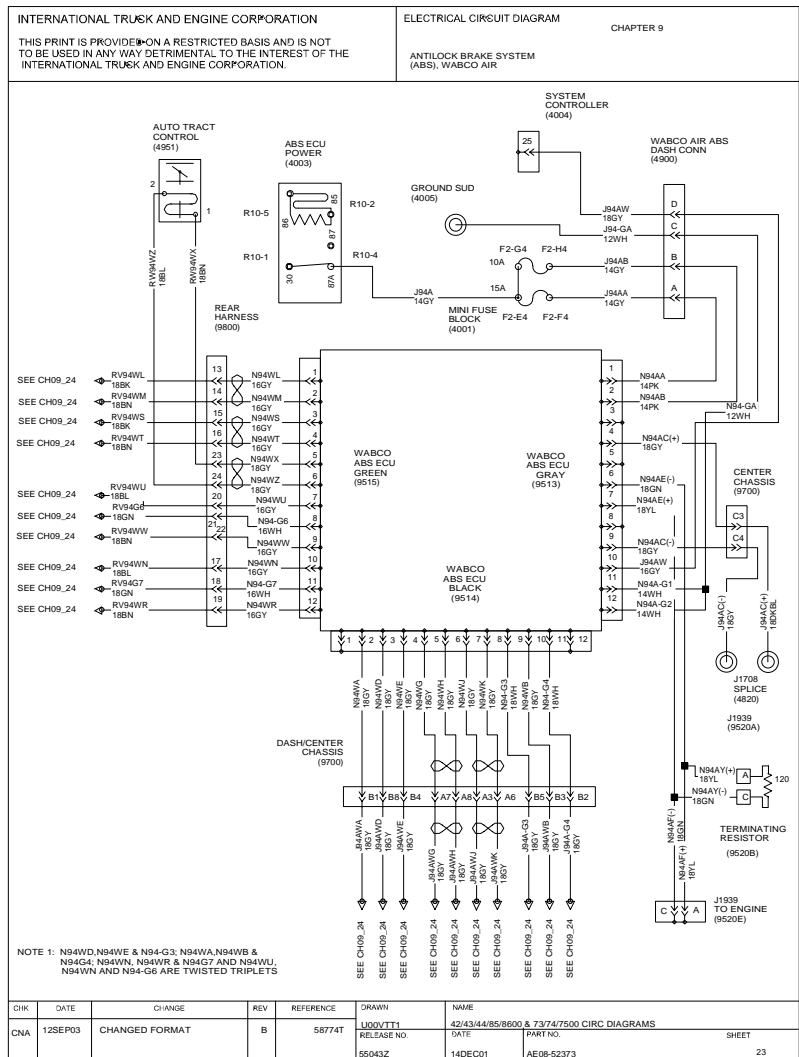


Figure 107 Antilock Brake System, WABCO Air

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

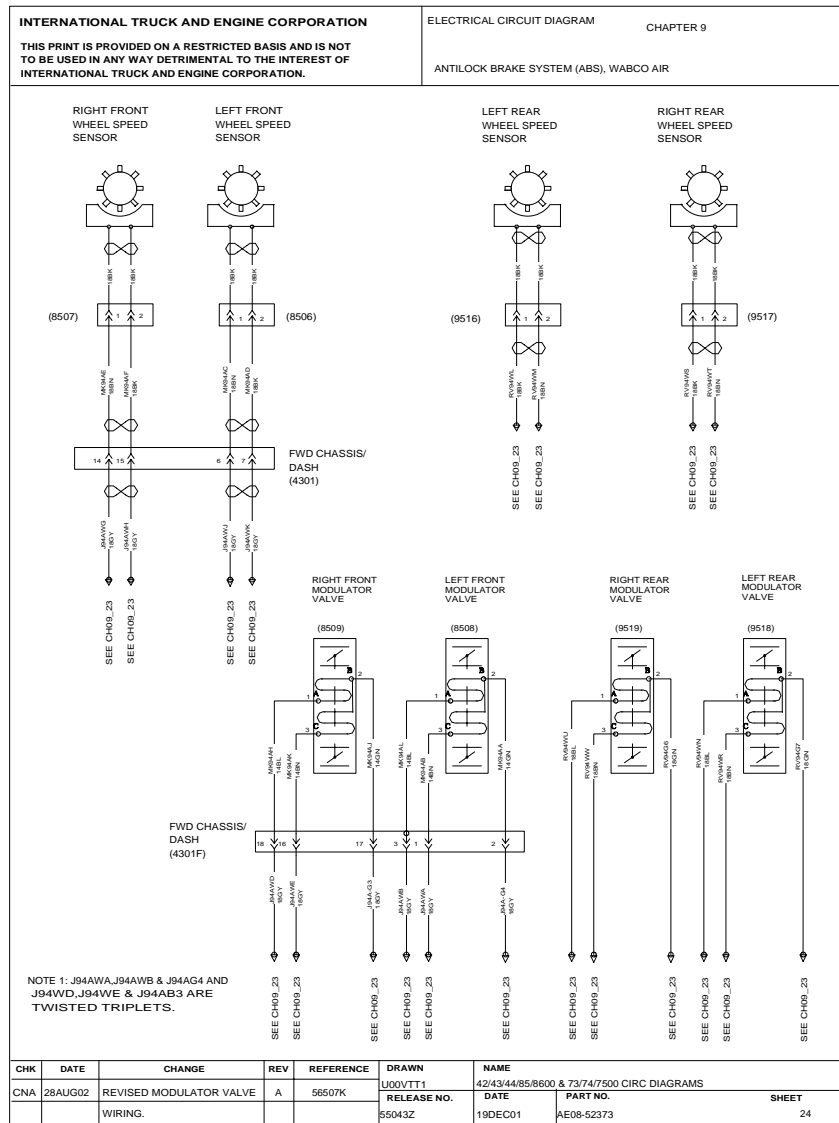
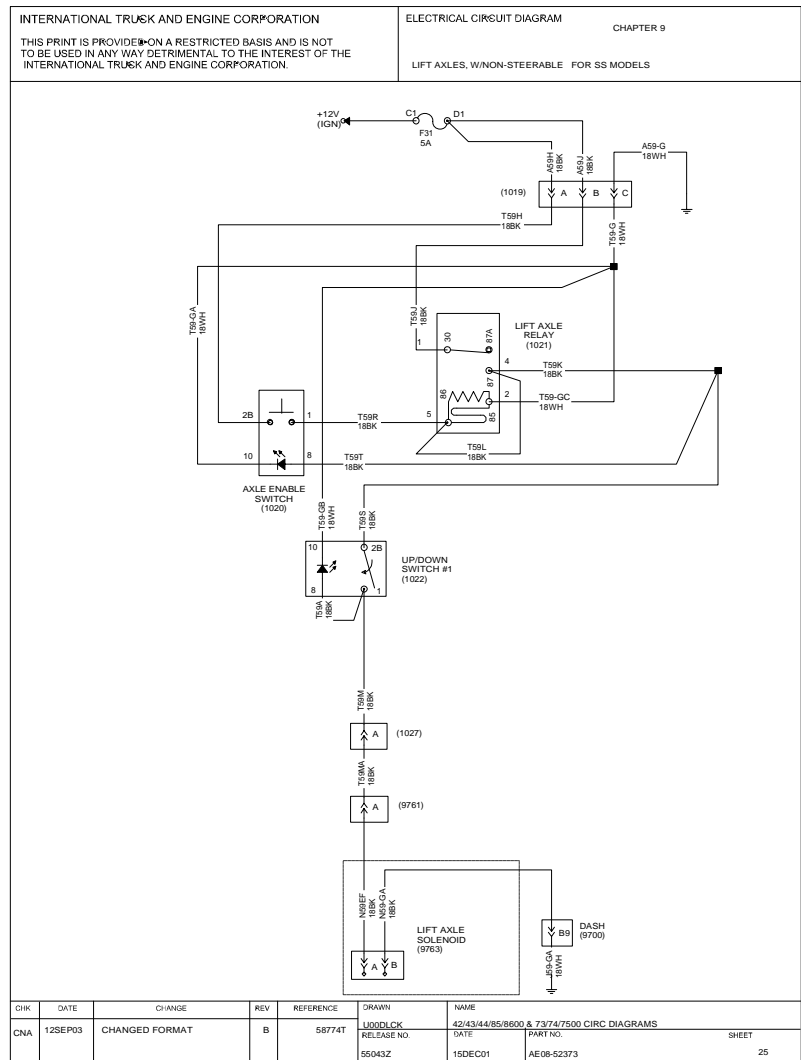


Figure 108 Antilock Brake System, WABCO Air

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



**Figure 109 Lift Axles, With Non-Steerable for SS Models**



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

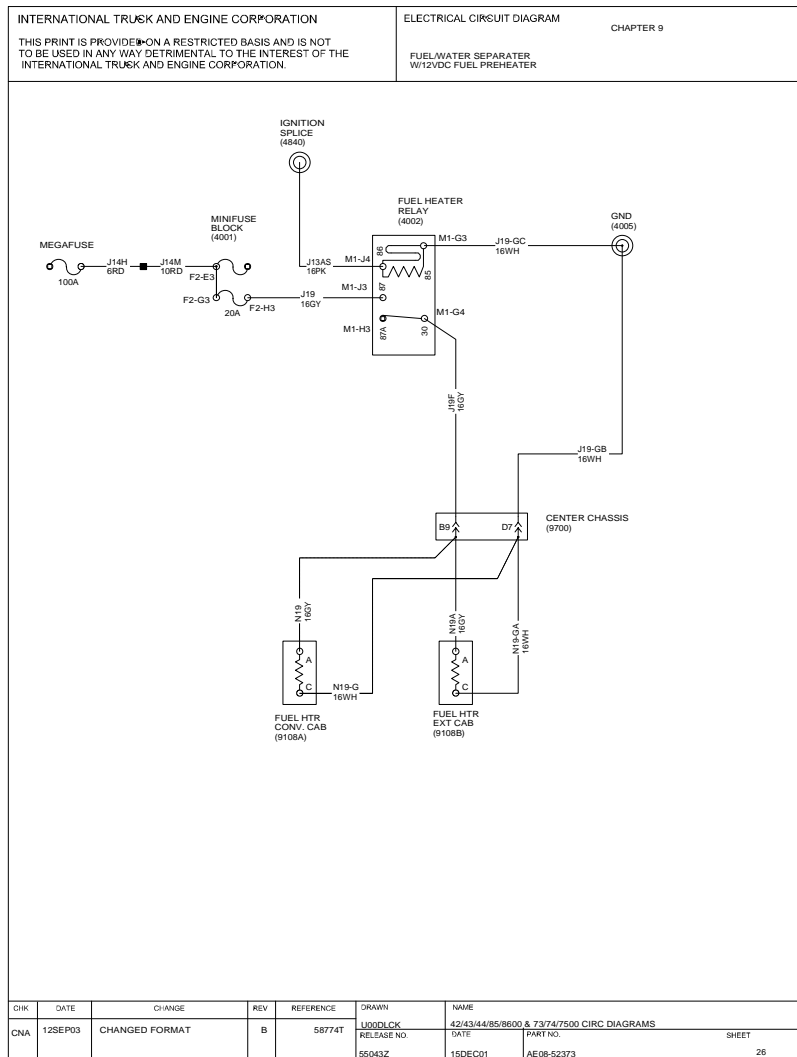


Figure 110 Fuel / Water Separator With 12VDC Fuel Preheater

9.27. ELECTRONIC TRAILER BRAKE ACCOMMODATION, P. 27

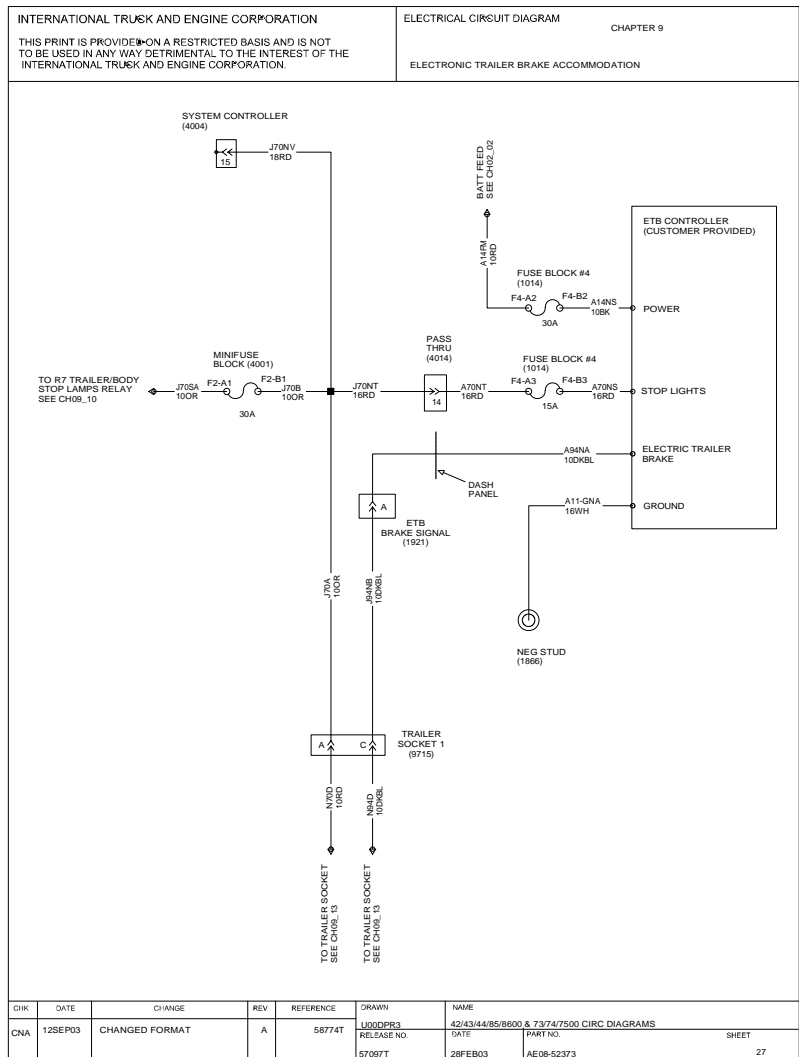


Figure 111 Electronic Trailer Brake Accommodation

9.28. LECTRASHIFT ACCOMMODATION, P. 28

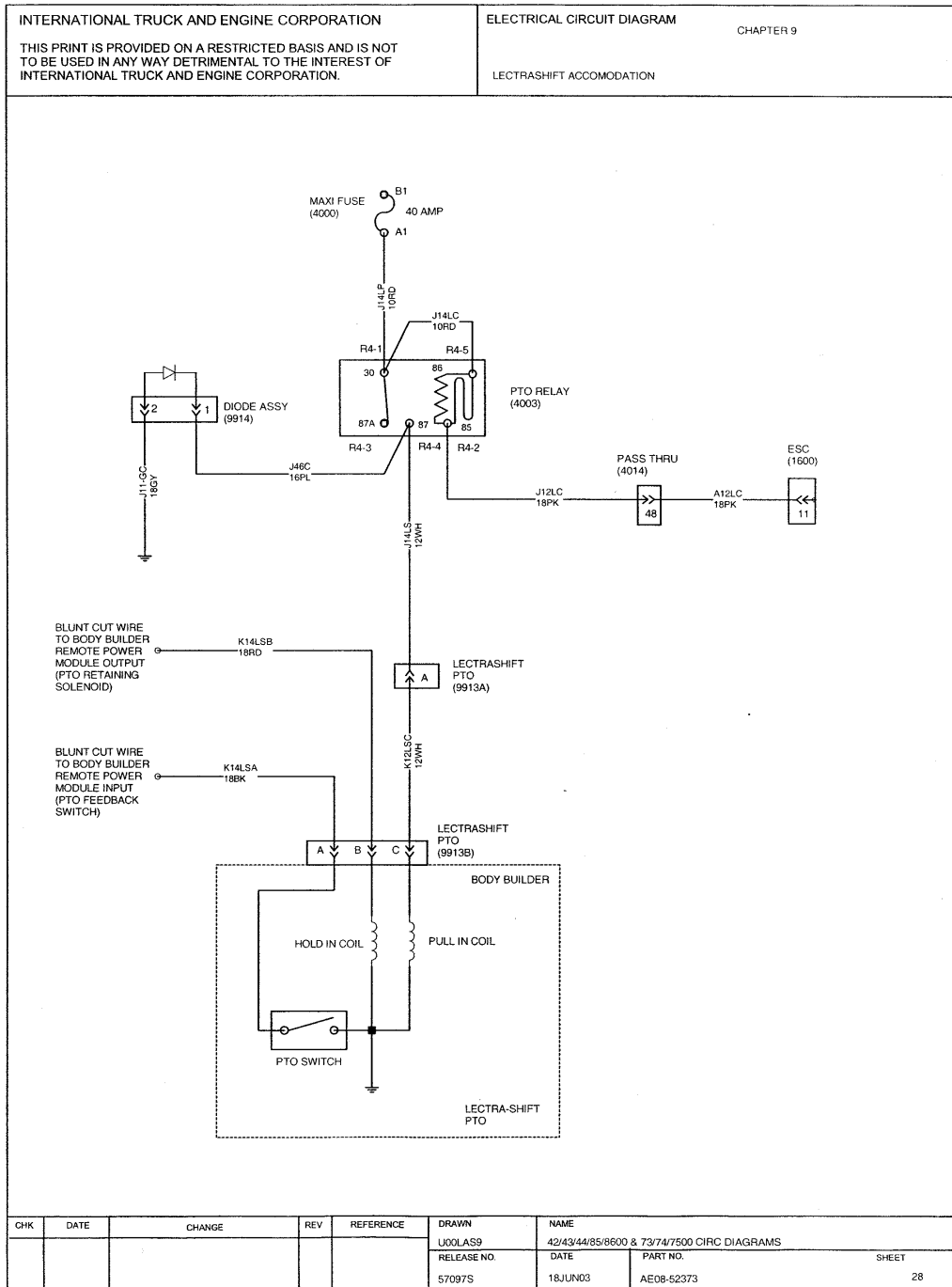


Figure 112 Lectrashift Accommodation

9.29. AUXILIARY 40 AMP CIRCUIT, P. 29

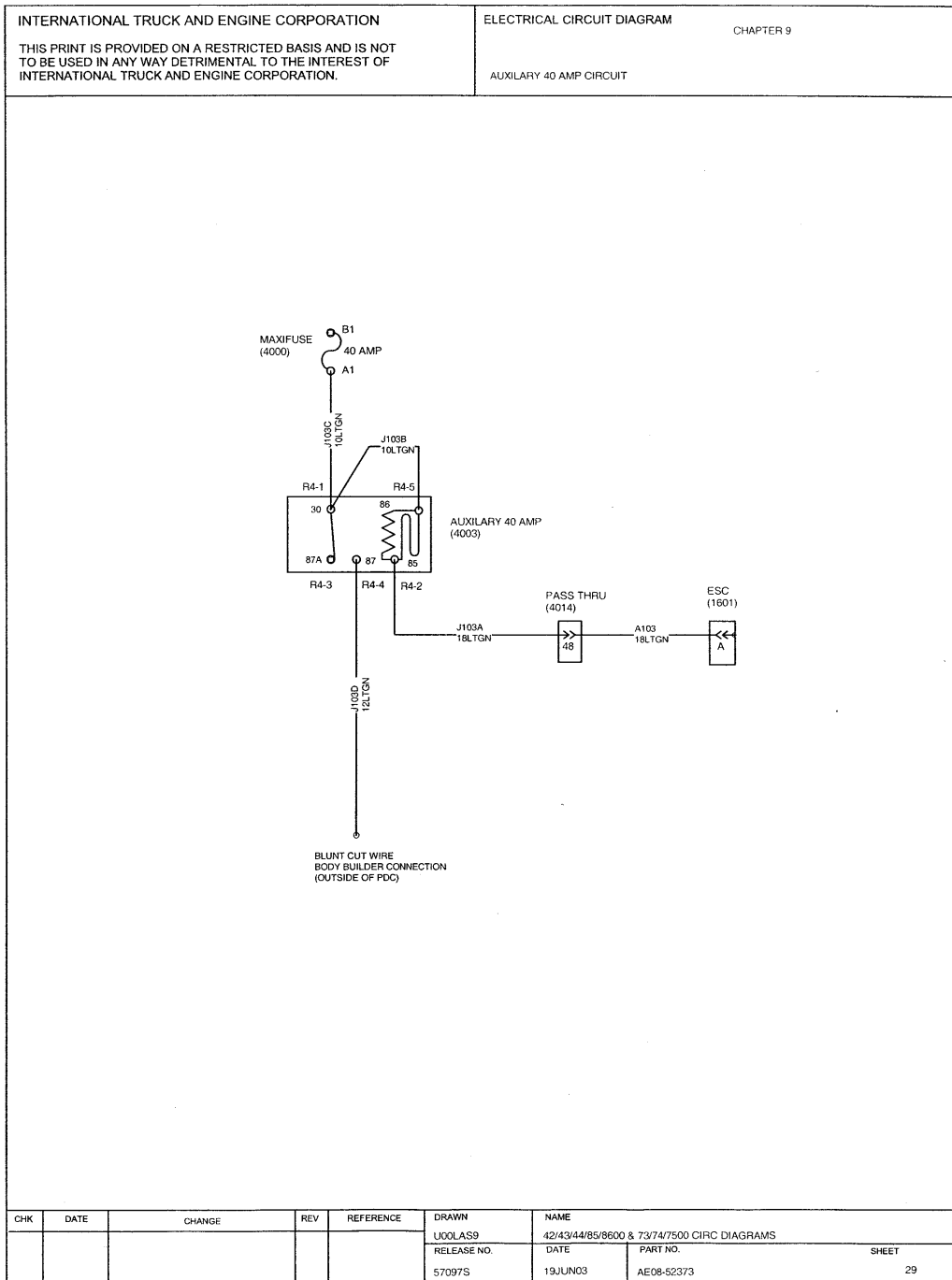


Figure 113 Auxiliary 40 Amp Circuit

9.30. HOURMETER, CUSTOMER MOUNTED PTO, P. 30

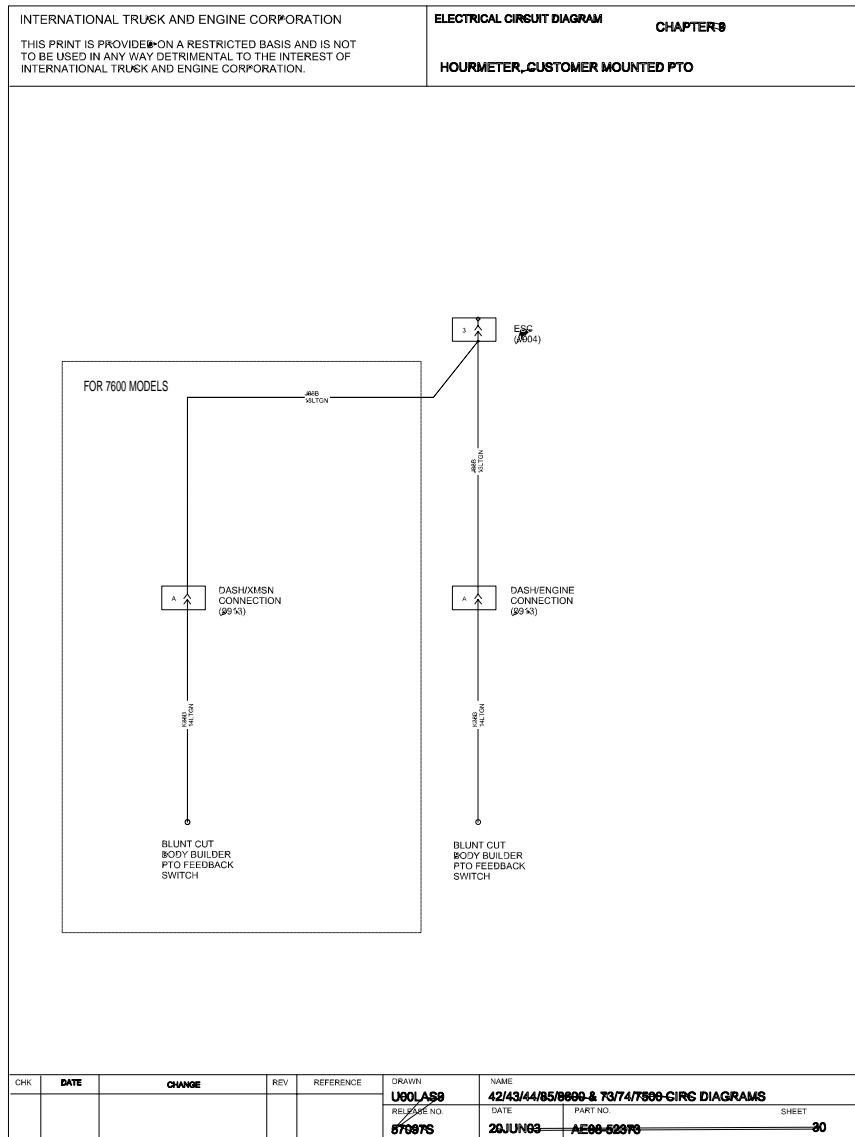


Figure 114 Hourmeter, Customer Mounted PTO

9.31. REMOTE START/ STOP, P. 31

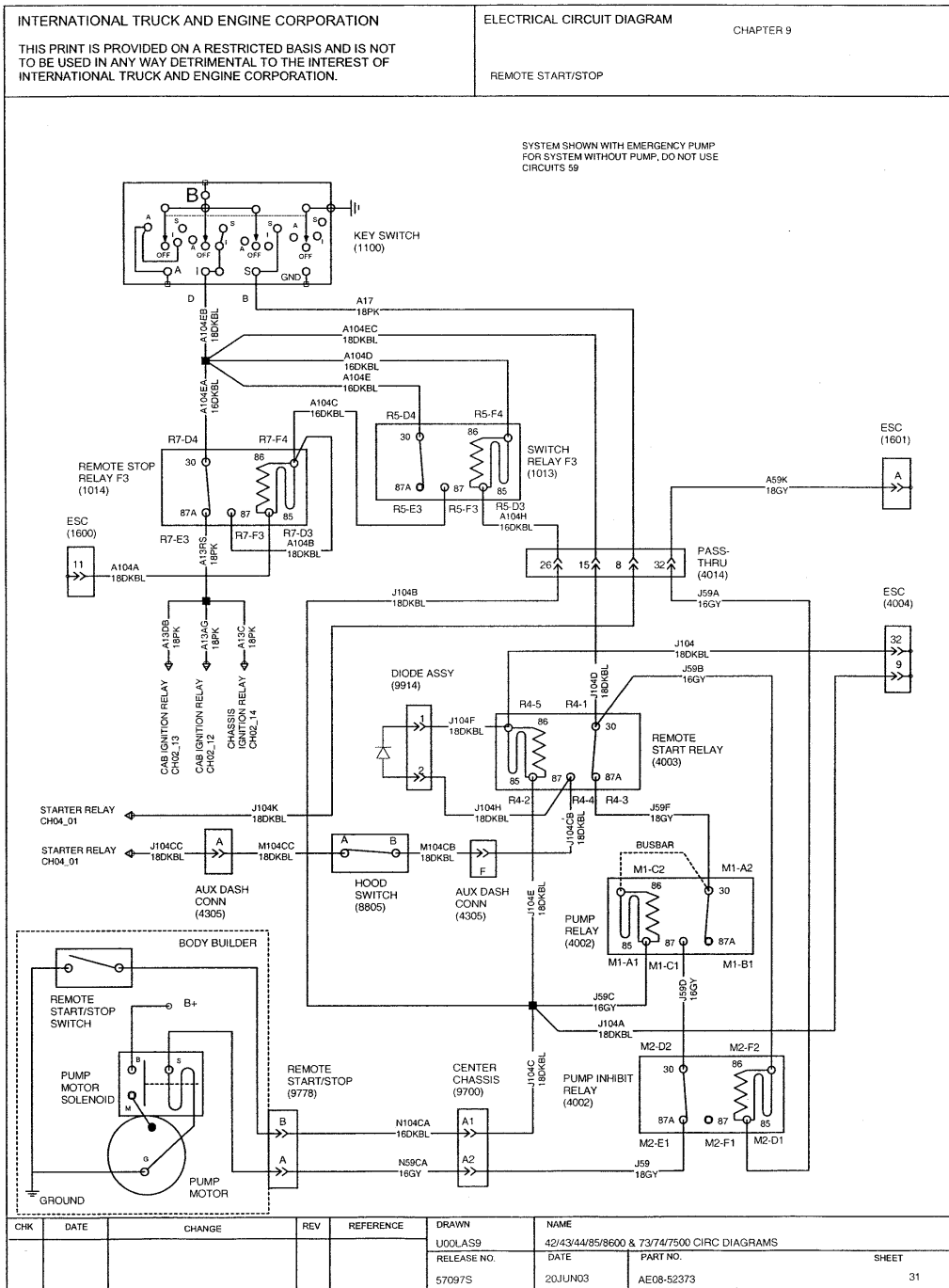


Figure 115 Remote Start/ Stop

9.32. LIFT AXLE WITH 14RAR, P. 32

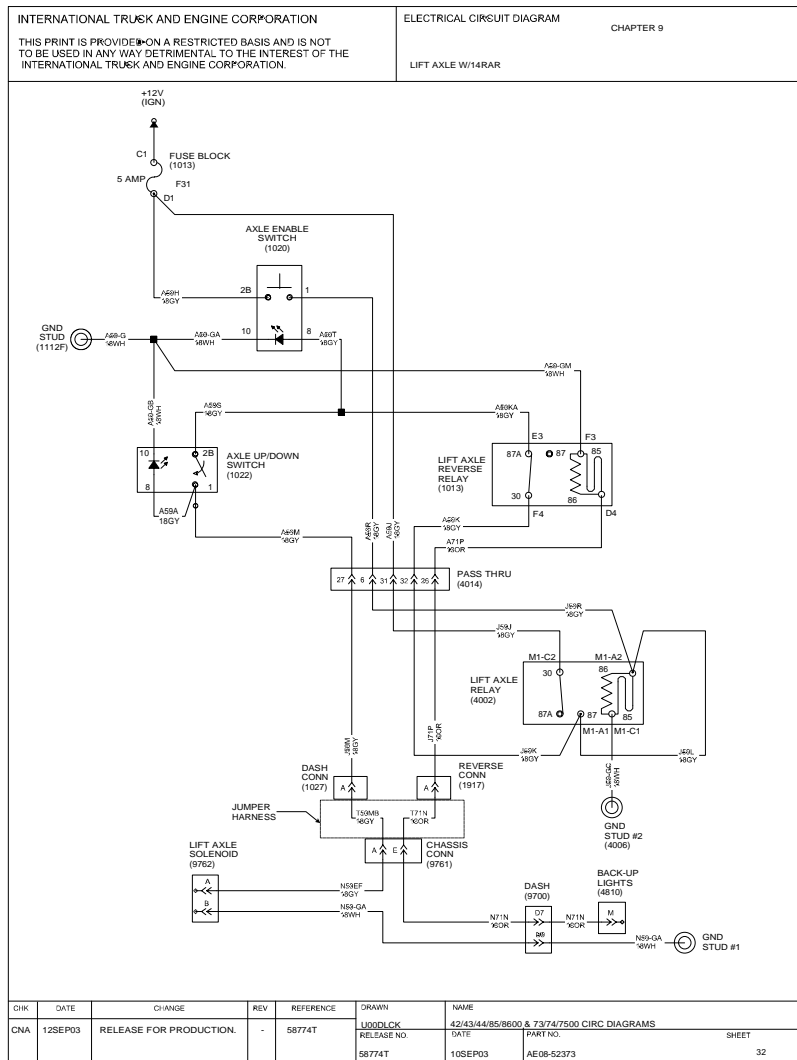


Figure 116 Lift Axle with 14RAR

9.33. LIFT GATE, P. 33

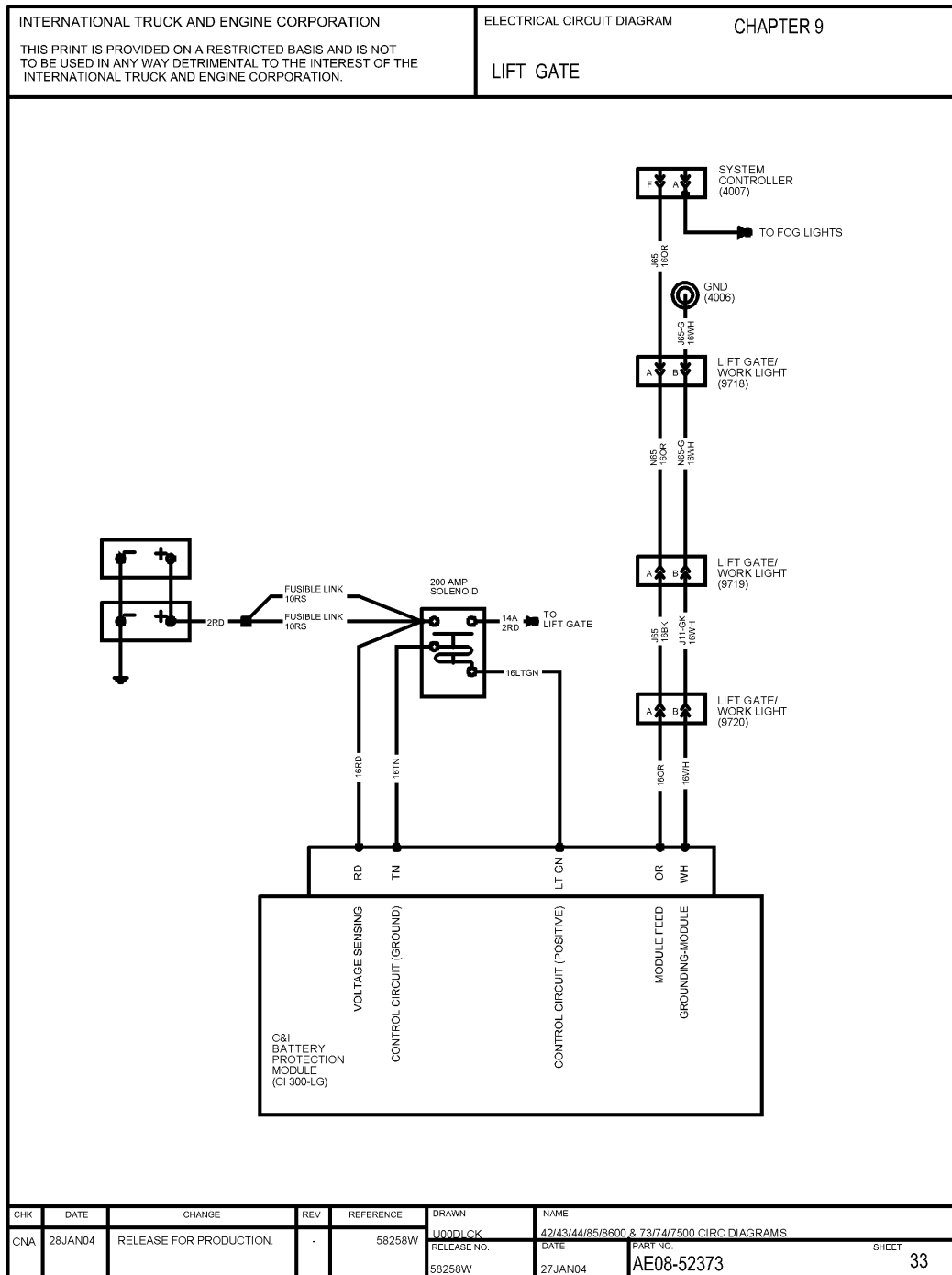


Figure 117 Lift Gate



# 10. TRANSMISSIONS (CHAPTER 10)

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

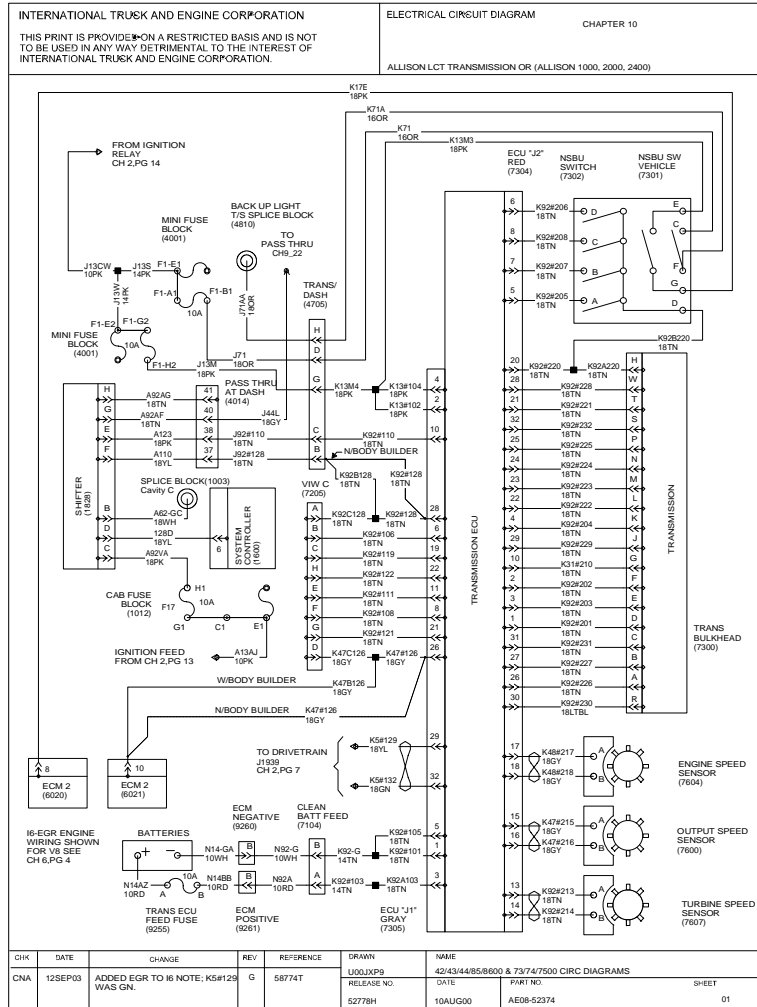


Figure 118 Allison LCT Transmission or Allison 1000, 2000, 2400

10.2. ALLISON MD TRANSMISSION, P. 2

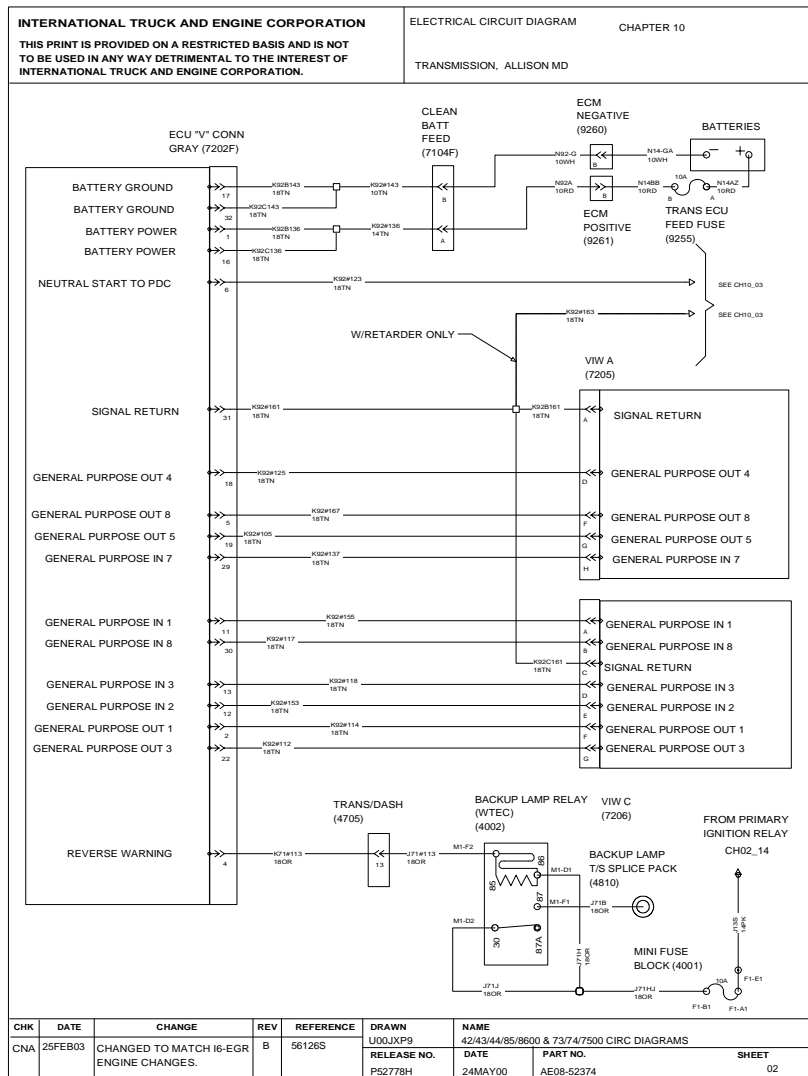


Figure 119 Allison MD Transmission

10.3. ALLISON MD TRANSMISSION (WTEC), P. 3

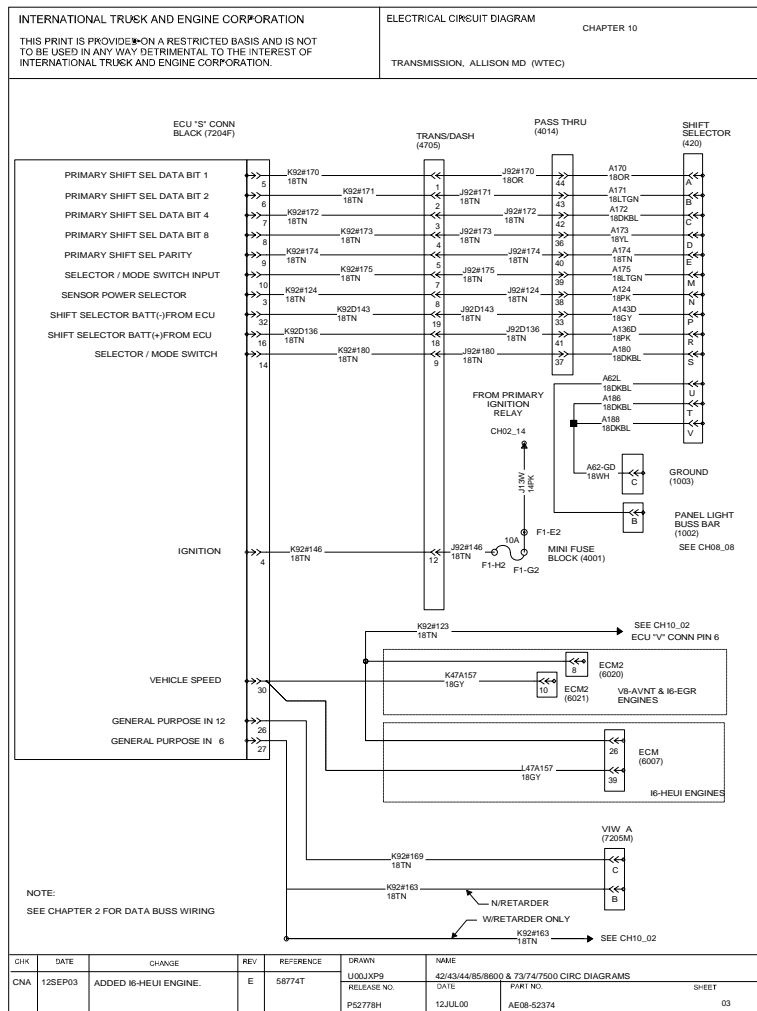


Figure 120 Allison MD Transmission (WTEC)

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

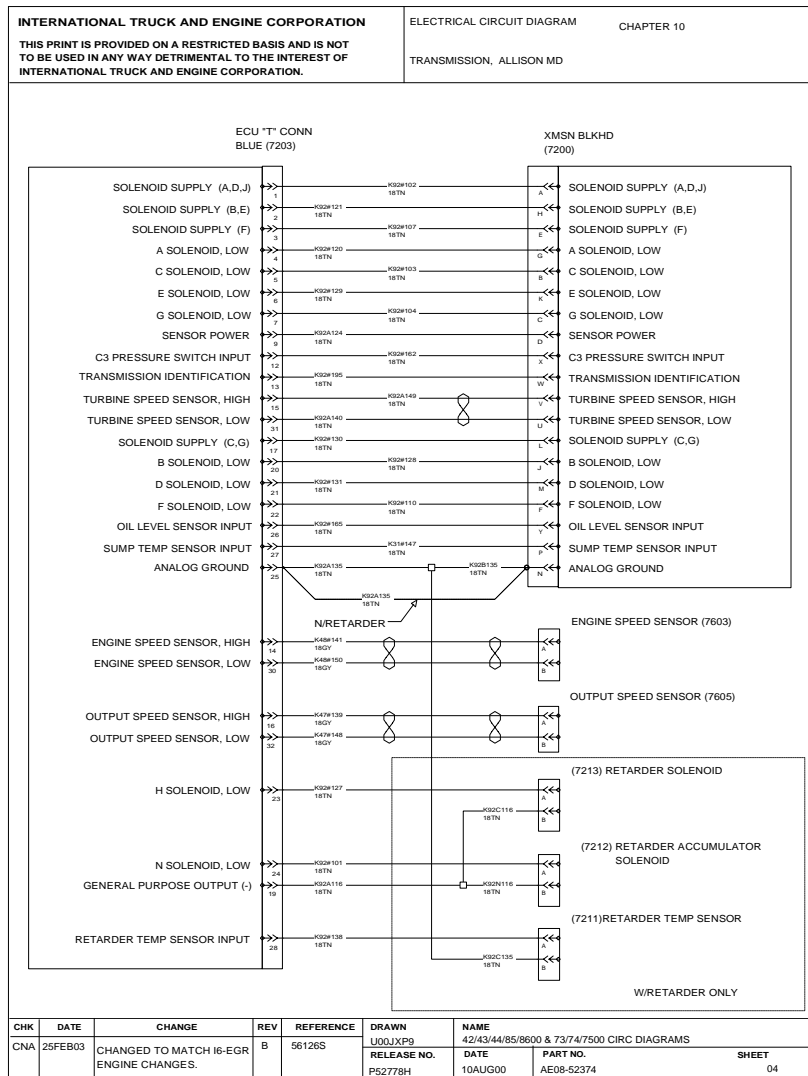


Figure 121 Allison MD Transmission (Cont.)

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

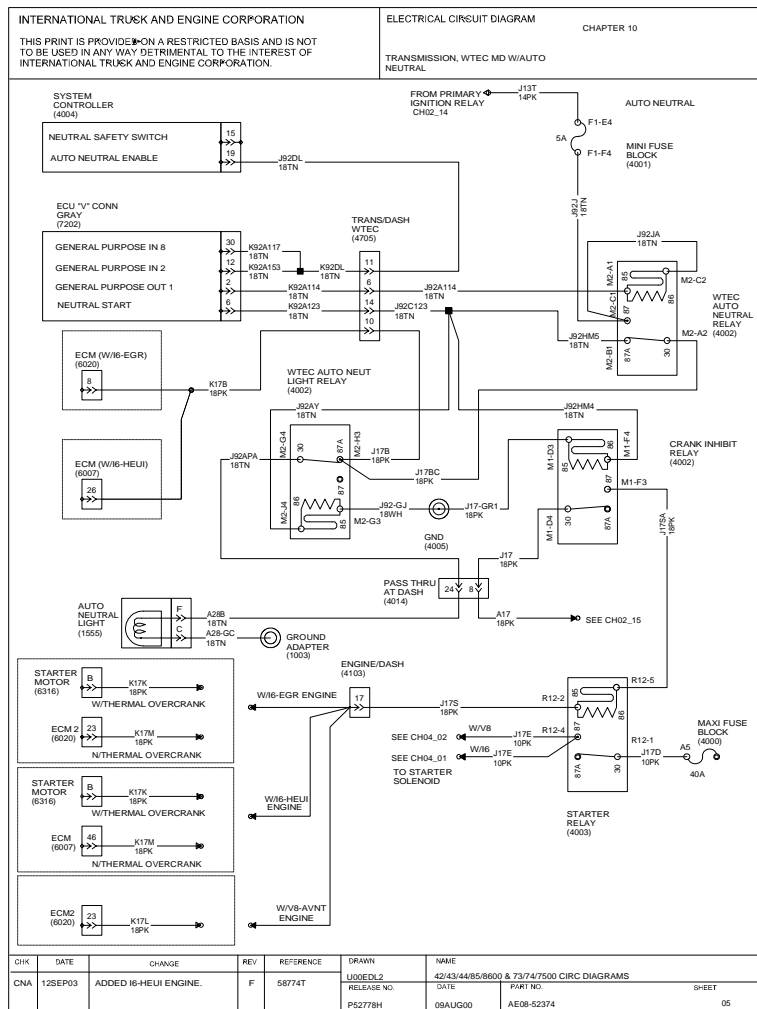


Figure 122 Transmission, WTEC MD W/Auto Neutral

10.6. EATON AUTOSHIFT TRANSMISSION, P. 6

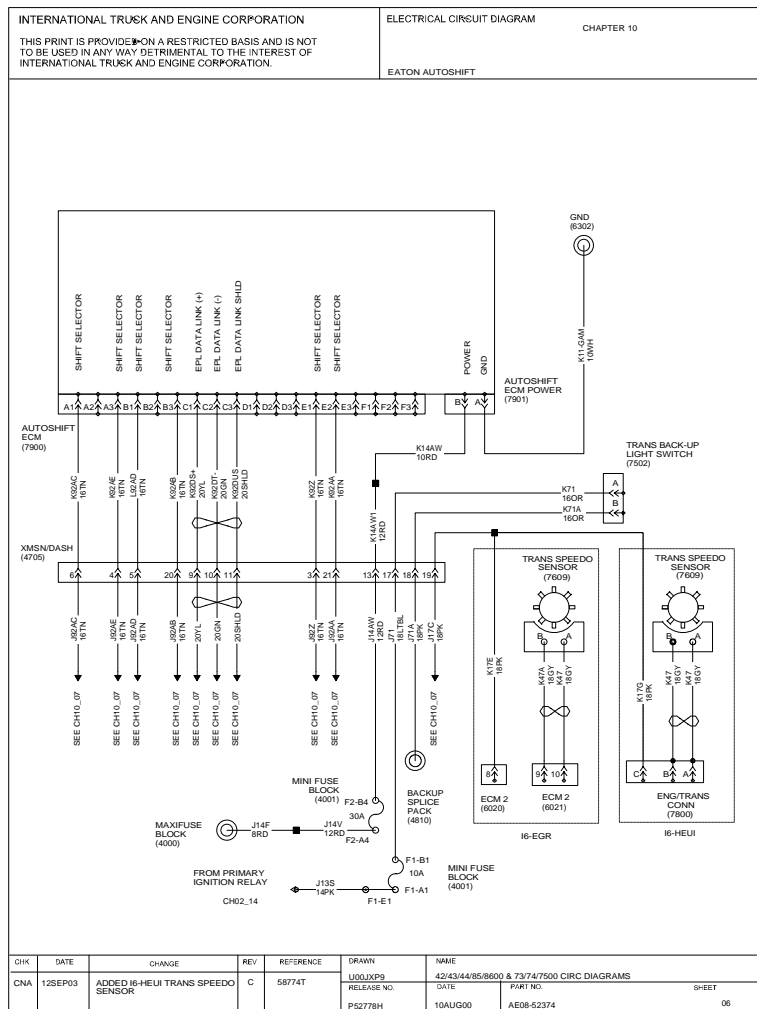


Figure 123 Eaton Autoshift Transmission

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

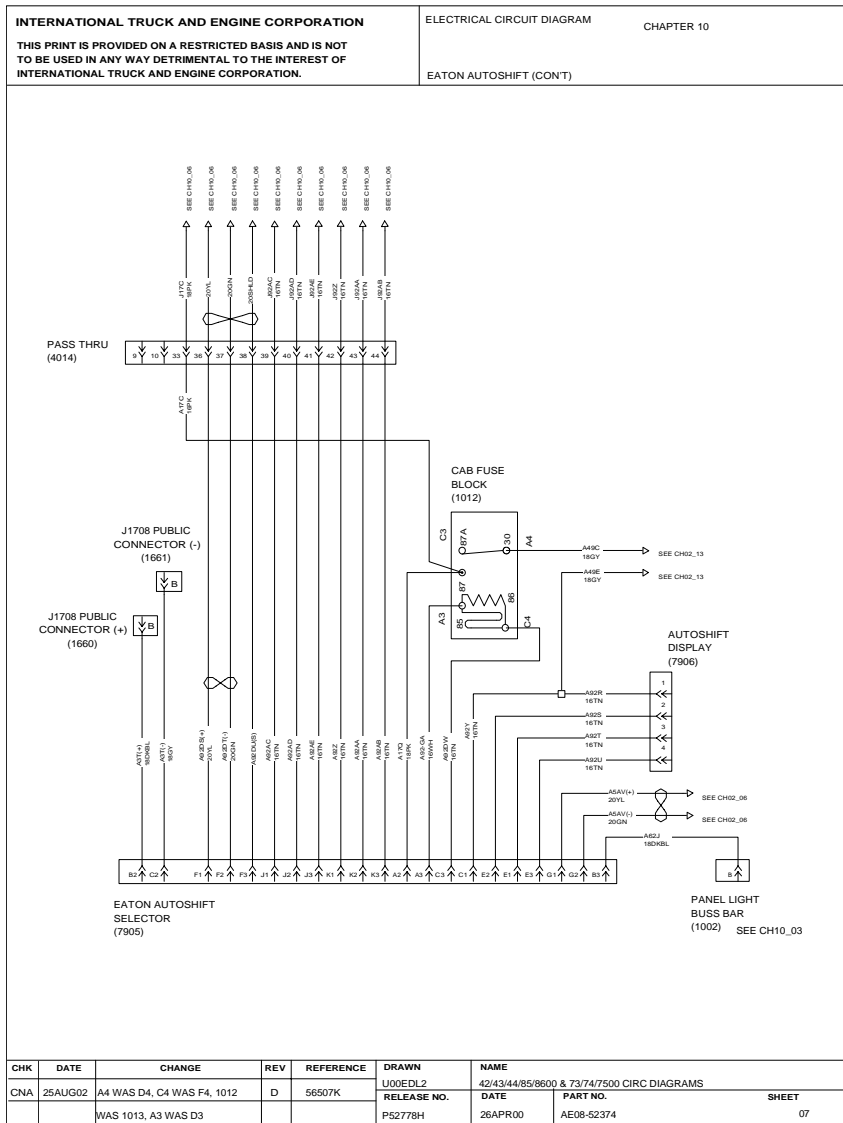


Figure 124 Eaton Autoshift Transmission (Cont.)

10.8. EATON LIGHTNING TRANSMISSION, P. 8

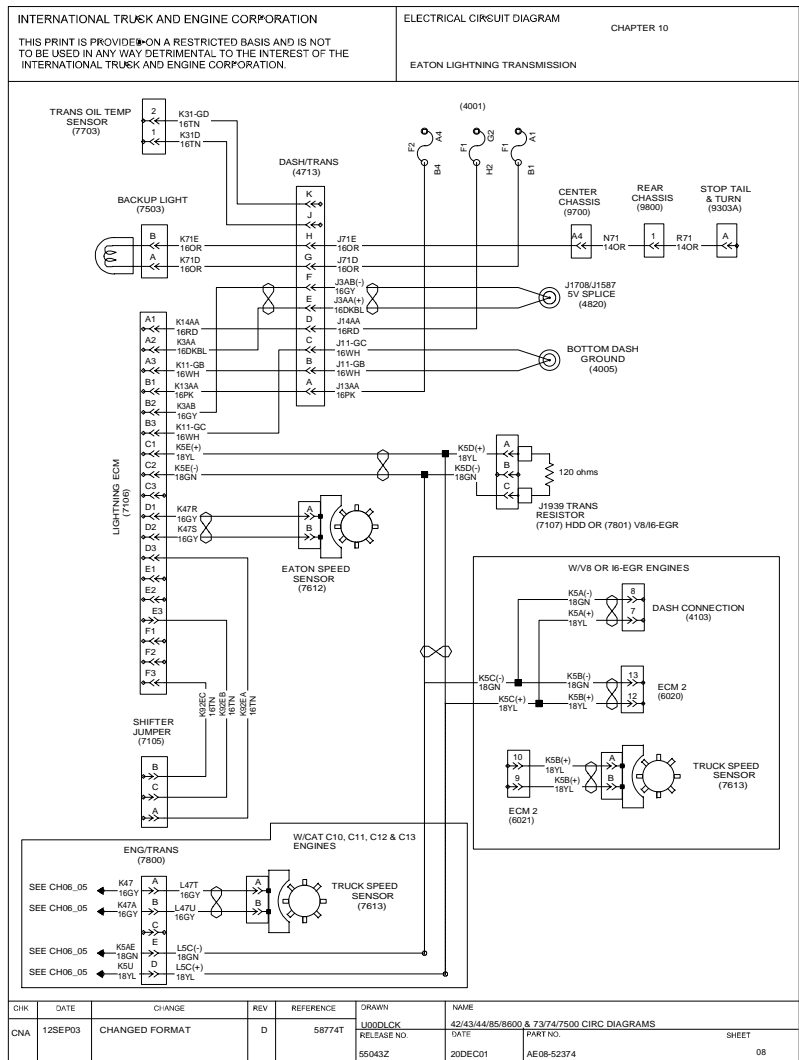


Figure 125 Eaton Lightning Transmission



10.9. ALLISON HD TRANSMISSION, P. 9

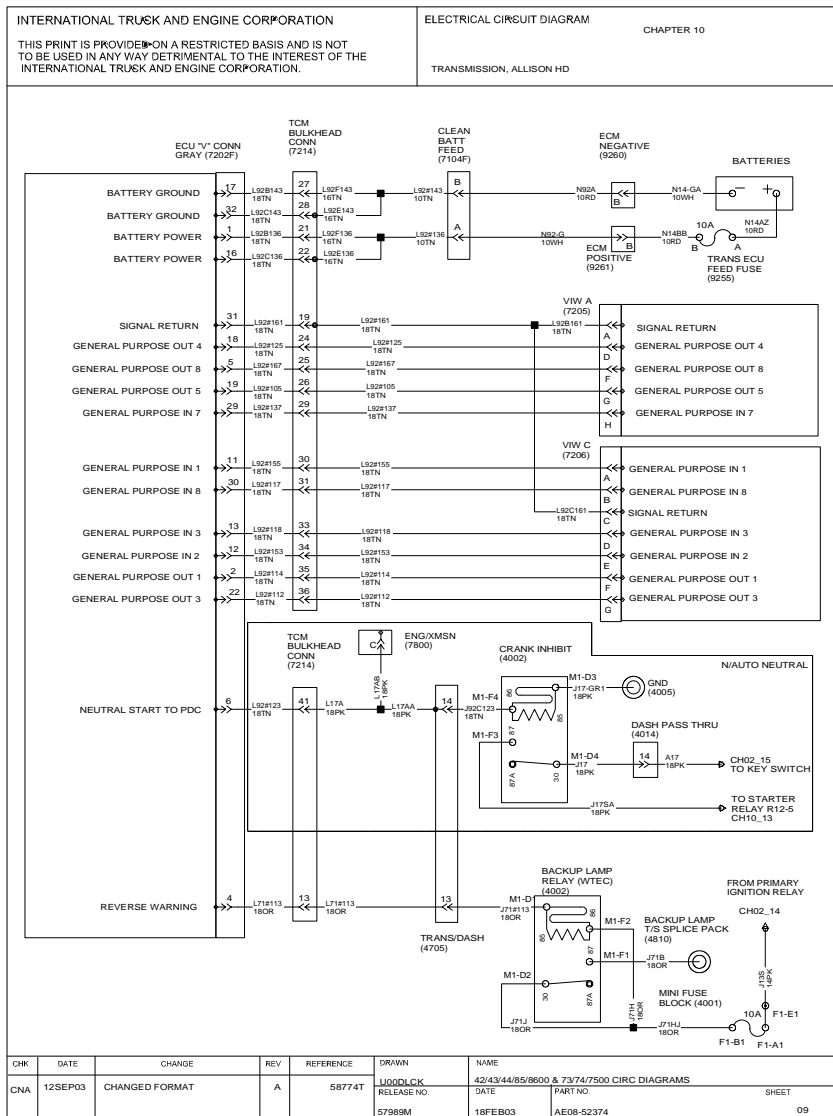


Figure 126 Allison HD Transmission

10.10. ALLISON HD TRANSMISSION, P. 10

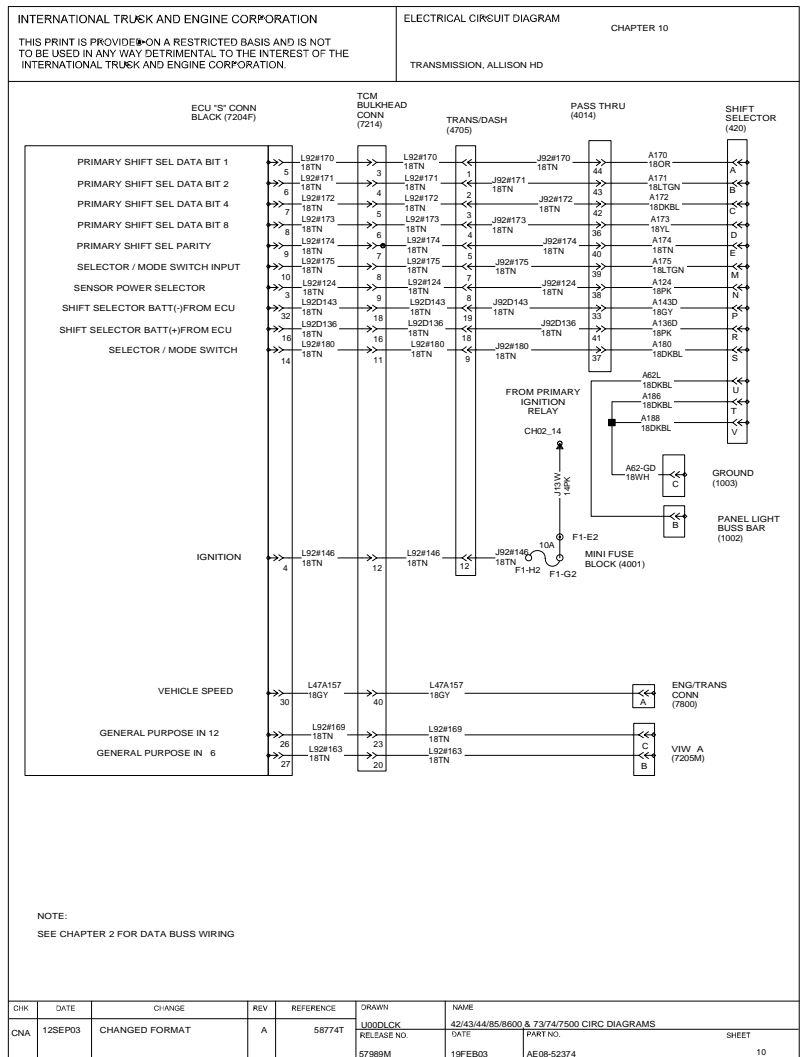


Figure 127 Allison HD Transmission (Cont.)

10.11. ALLISON HD TRANSMISSION, P. 11

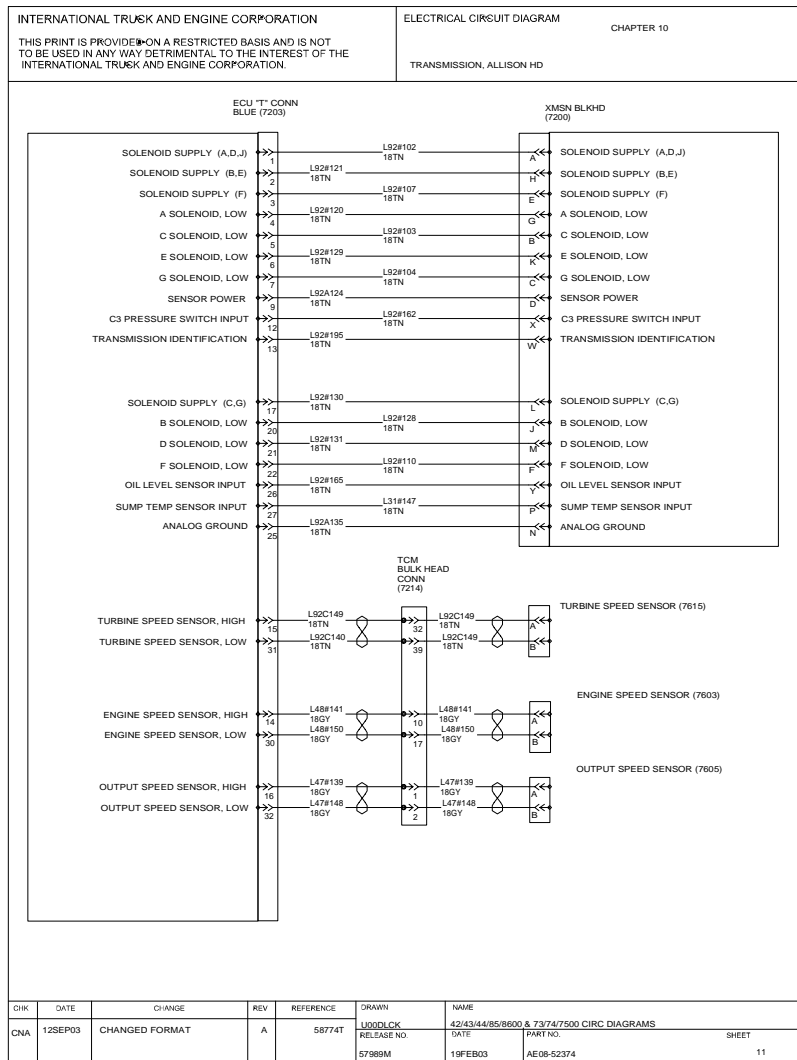


Figure 128 Allison HD Transmission (Cont.)

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

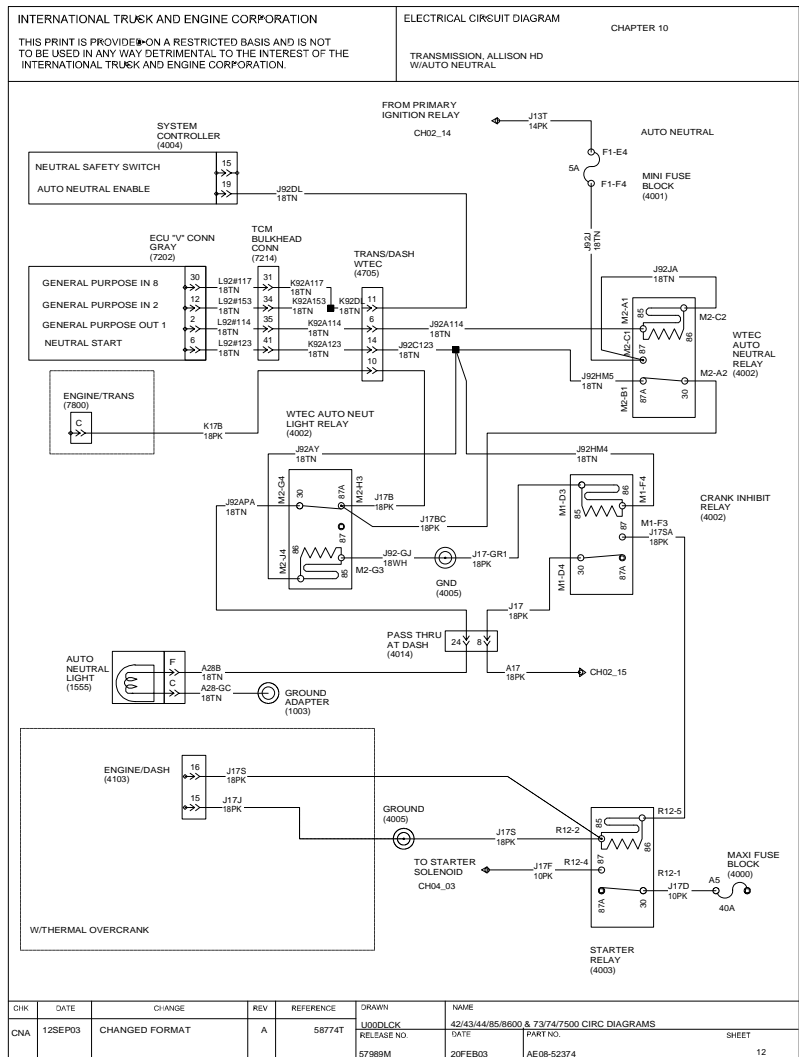


Figure 129 Allison HD Transmission With Auto Neutral

10.13. ALLISON HD TRANSMISSION WITH AUTO NEUTRAL AND WITH 0013WUA, P. 13

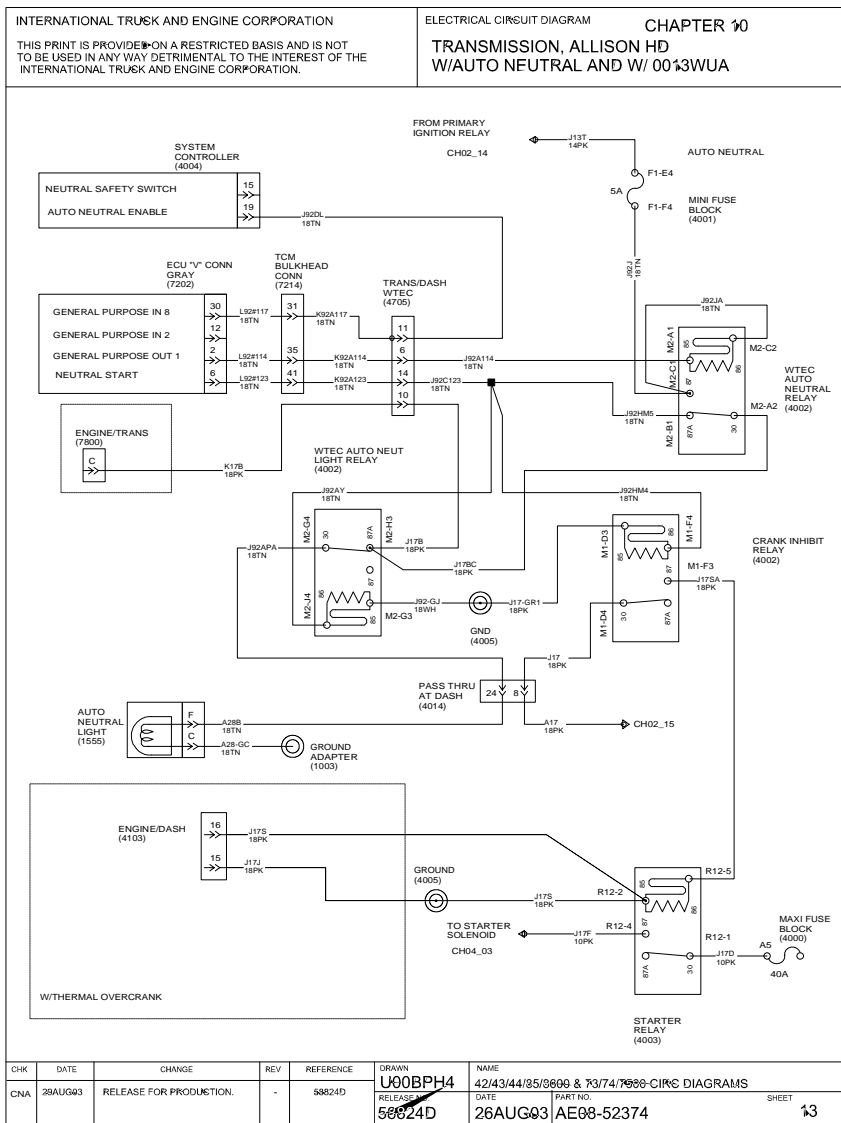


Figure 130 Allison HD Transmission With Auto Neutral and with 0013WUA

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

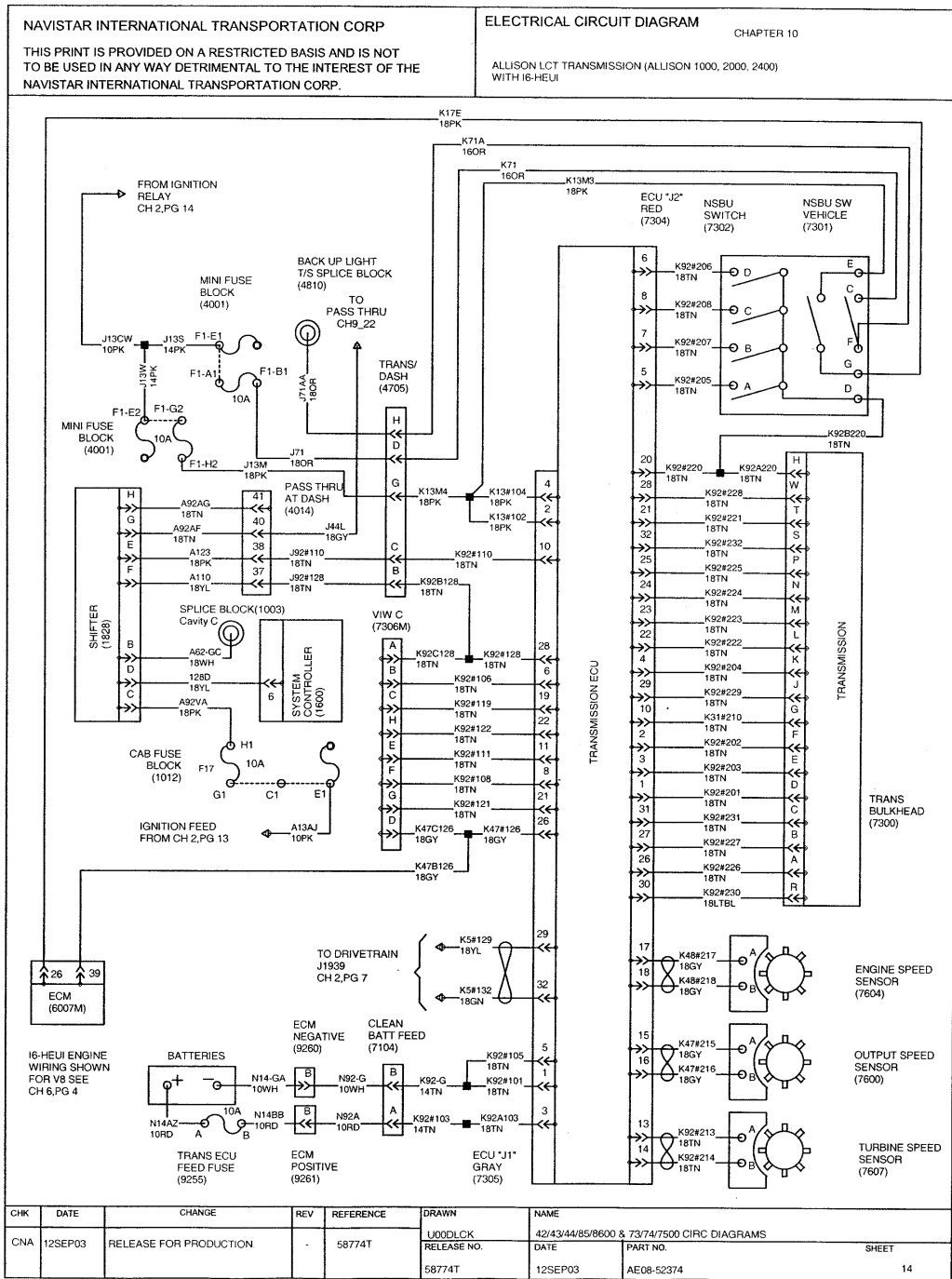


Figure 131 Allison LCT Transmission (Allison 1000, 2000, 2400) with I6 HEUI

10.15. TRANSMISSION RETARDER CONTROL WIRING WITH MD XMSN, HARD WIRED EFFECTS, P. 15

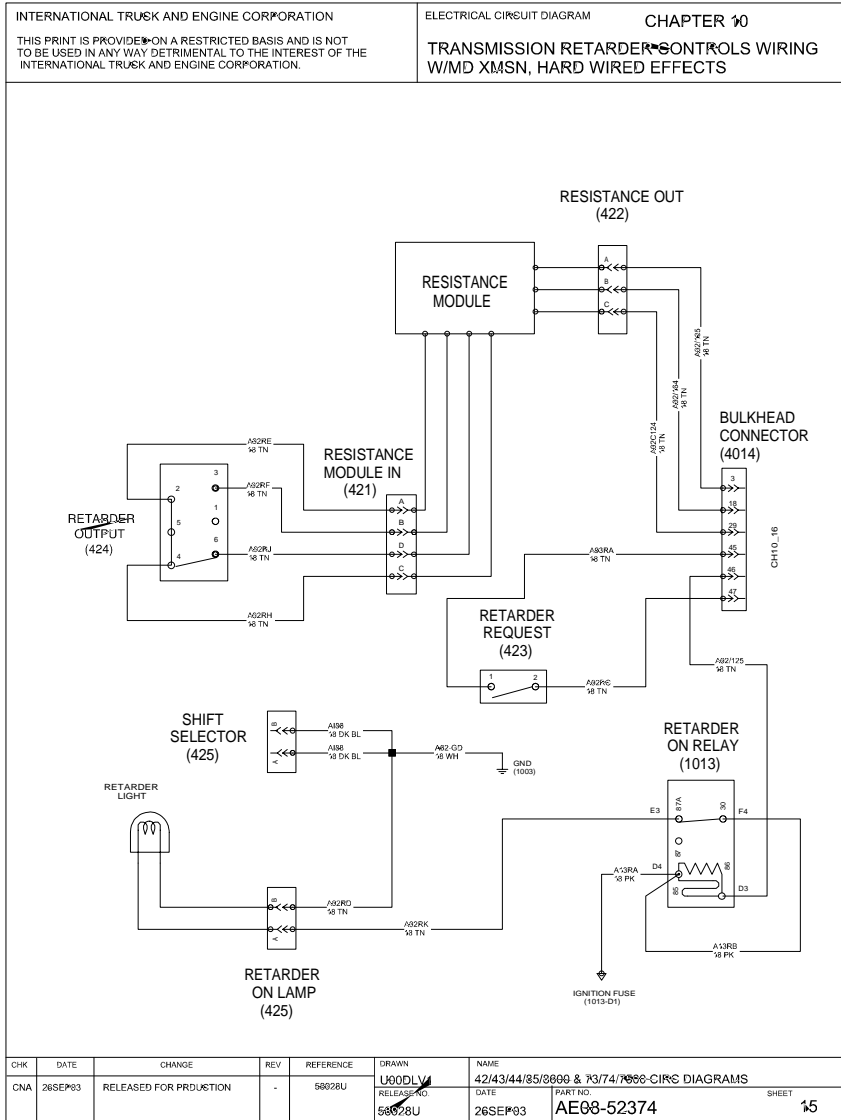
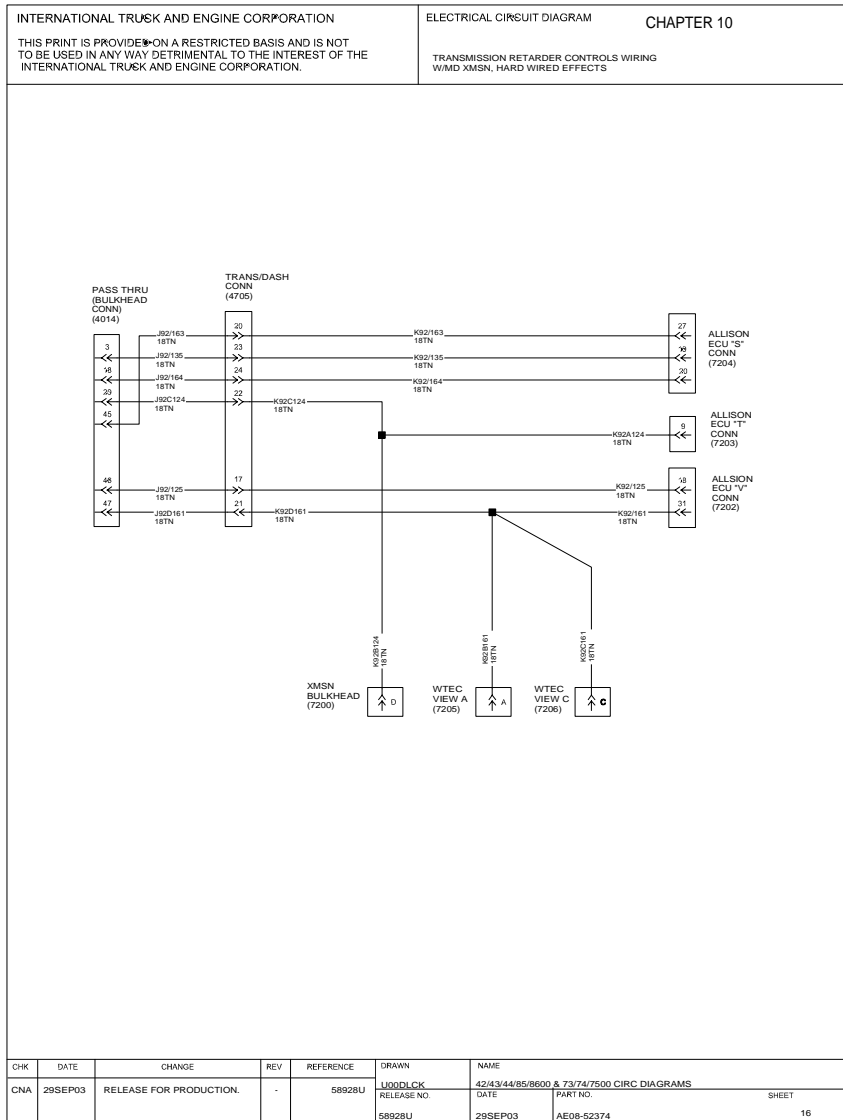


Figure 132 Transmission Retarder Control Wiring with MD Transmission, Hard Wired Effects

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



**Figure 133 Transmission Retarder Control Wiring with MD Transmission, Hard Wired Effects**



# 11. AIR CONDITIONING (CHAPTER 11)

## 11.1. HVAC SYSTEMS, P. 1

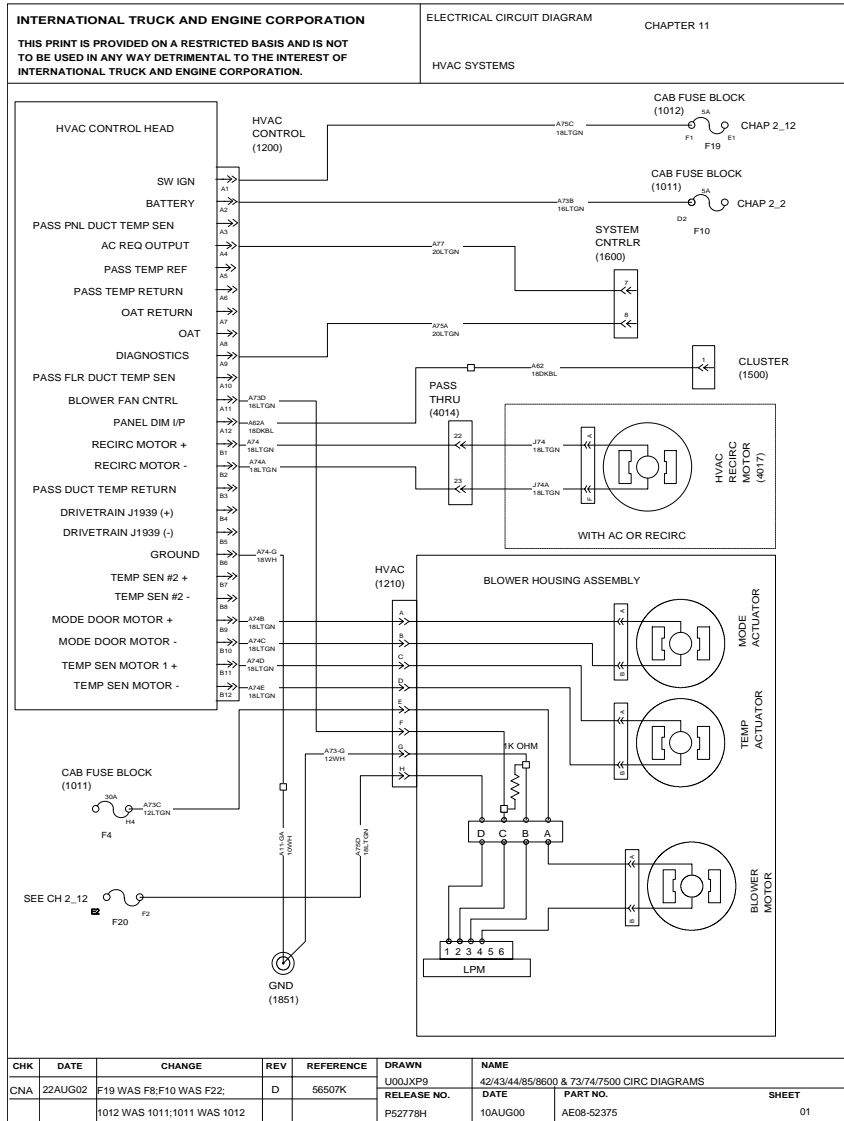


Figure 134 HVAC Systems

11.2. AIR CONDITIONING (ONLY), P. 2

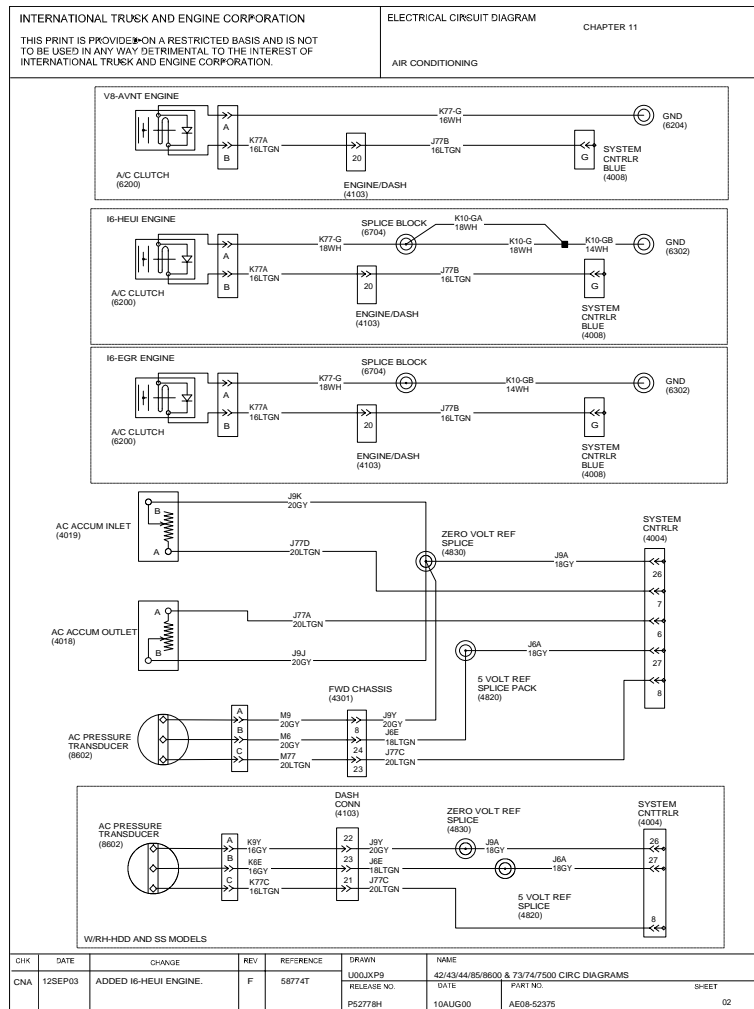


Figure 135 Air Conditioning (Only)