

7.2. WARNING LIGHT LIST, P. 2

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

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 (⑨)	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		

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	09AUG00	AE08-52371

SHEET 02

Figure 52 Warning Light List

**4200, 4300, 4400 SERIES Built October 16, 2000 to December 31, 2001 —
ELECTRICAL CIRCUIT DIAGRAMS**

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: RANGE INHIBIT ENGINE (YELLOW LED) ENGINE (RED LED) TRAC CTRL CHECK TRANS TRAILER ABS CHECK ELECTR SYS ABS WAIT TO START RETARD OVERHEAT AUTO NEUTRAL (NOT ON DATA BUS TO CLUSTER) OPTIMIZED IDLE (NOT ON DATA BUS TO CLUSTER)																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">CHK</td> <td style="width: 15%;">DATE</td> <td style="width: 25%;">CHANGE</td> <td style="width: 5%;">REV</td> <td style="width: 15%;">REFERENCE</td> <td style="width: 15%;">DRAWN</td> <td style="width: 20%;">NAME</td> </tr> <tr> <td>PEC</td> <td>16JAN01</td> <td>PRODUCTION RELEASE.</td> <td>A</td> <td>P54304U</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>P52778H</td> <td>20JUN00</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">PART NO.</td> <td style="width: 20%;">AE08-52371</td> <td style="width: 40%;">SHEET</td> </tr> <tr> <td></td> <td></td> <td>03</td> </tr> </table>		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
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 53 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			
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	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 54 Engine Oil Pressure and Temp, Speedometer, Tach, Voltmeter and Water Temp Gauge Circuits

**4200, 4300, 4400 SERIES Built October 16, 2000 to December 31, 2001 —
ELECTRICAL CIRCUIT DIAGRAMS**

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

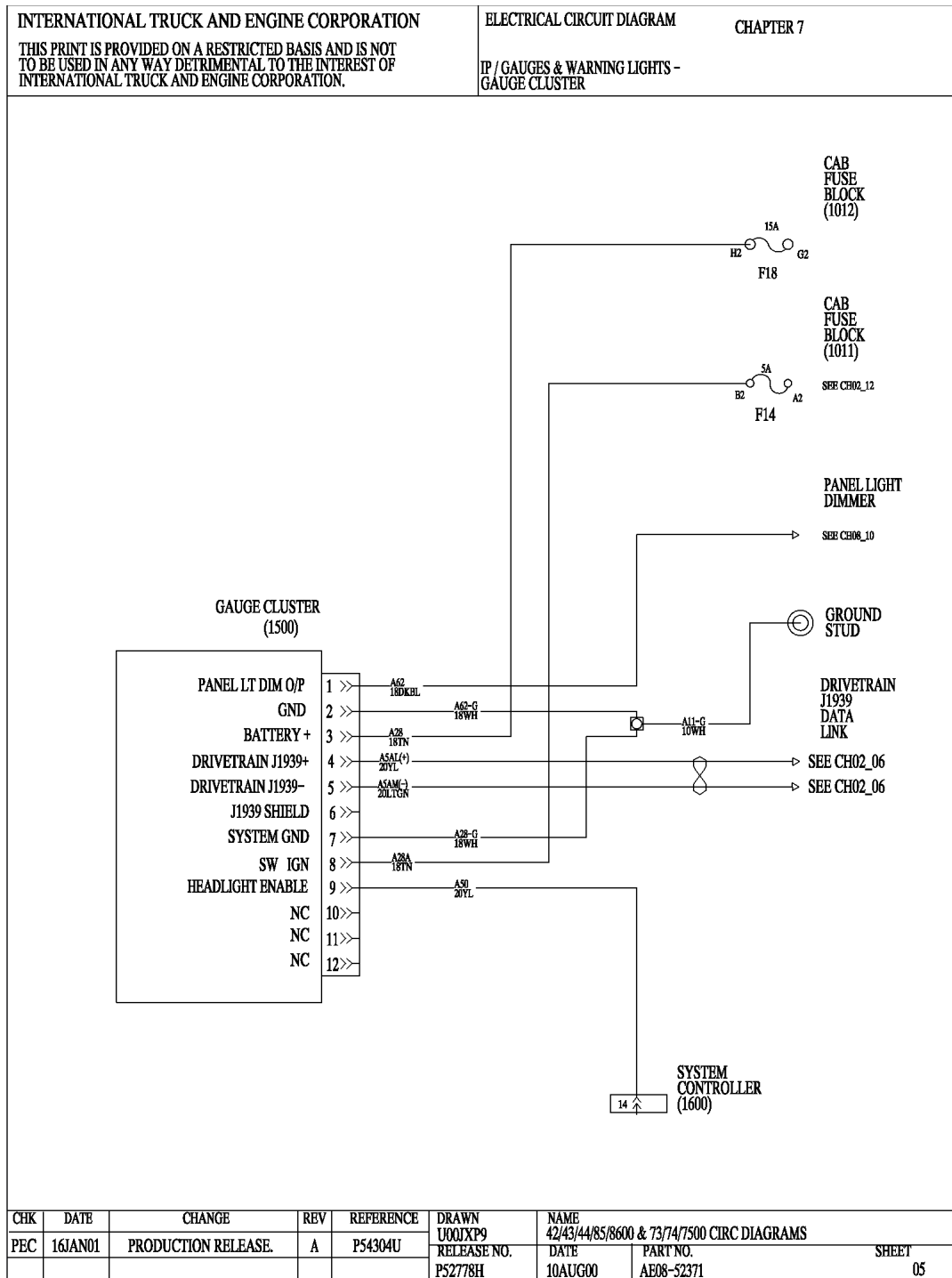
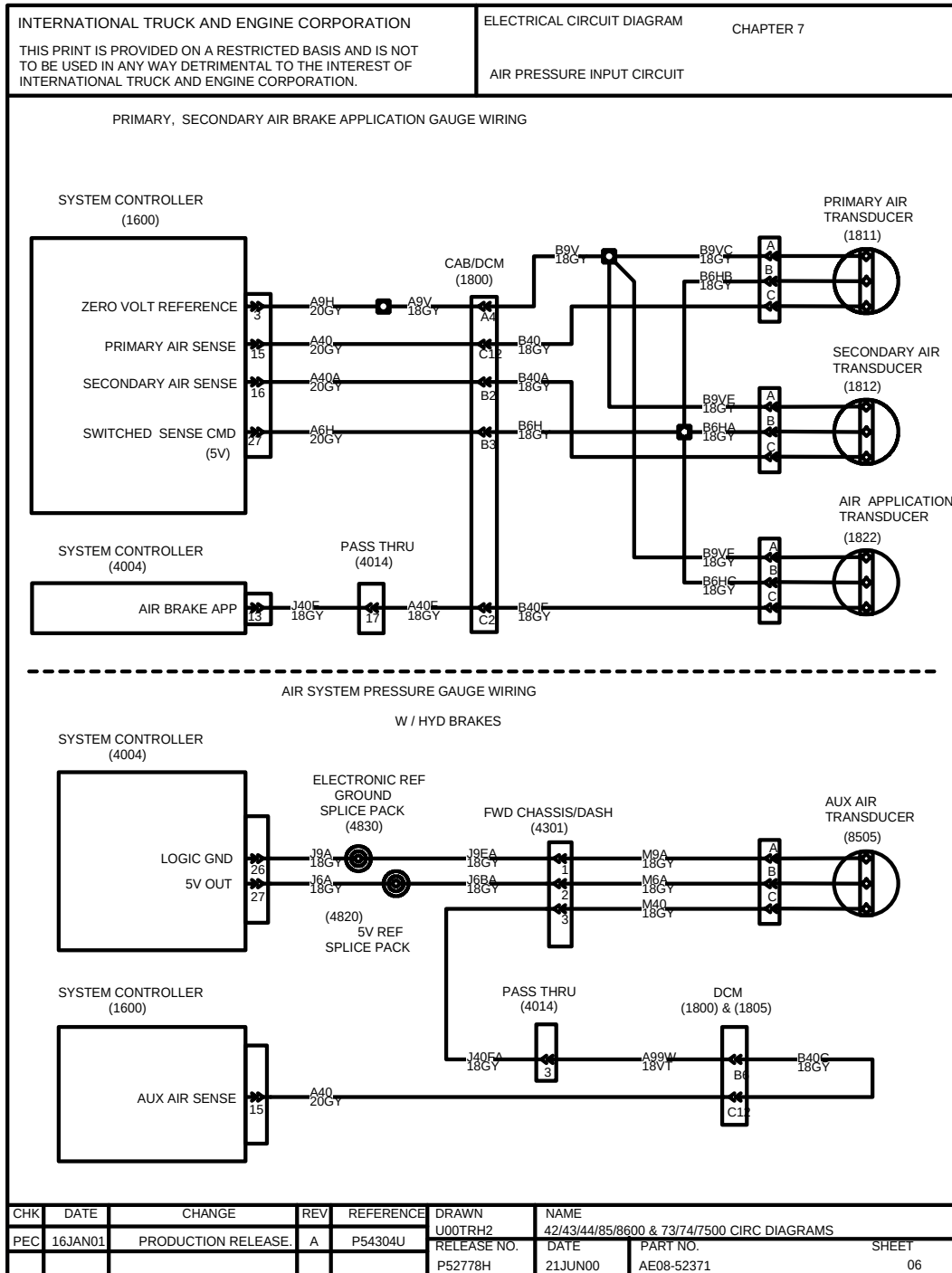


Figure 55 IP/Gauges and Warning Lights — Gauge Cluster

7.6. AIR PRESSURE INPUT CIRCUIT, P. 6


Figure 56 Air Pressure Input Circuit

TRUCK HOUSE SAC

Ingenieria del Transporte

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

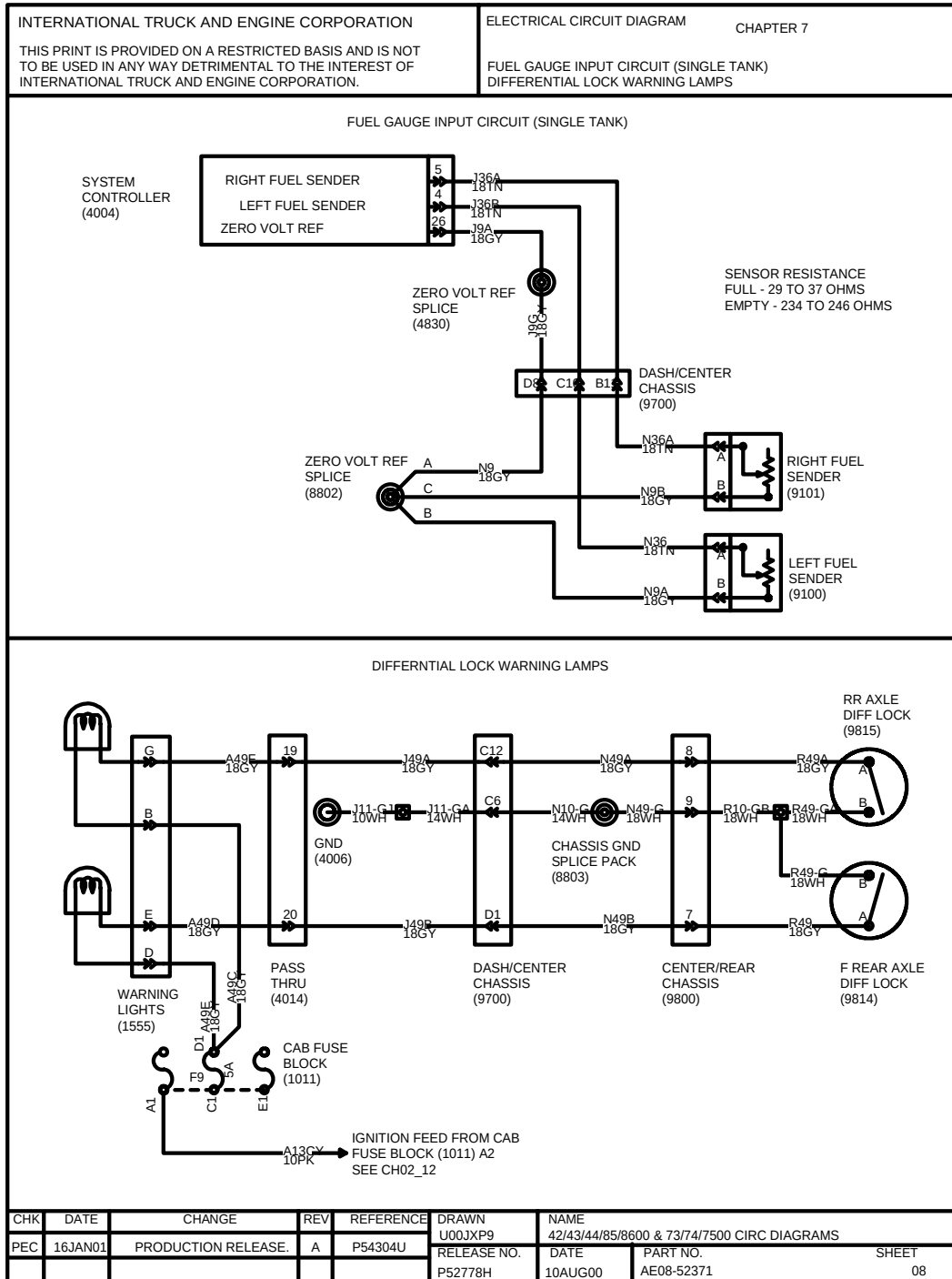


Figure 58 Fuel Gauge Input Circuit (Single Tank) Differential Lock Warning Lamps

**4200, 4300, 4400 SERIES Built October 16, 2000 to December 31, 2001 —
ELECTRICAL CIRCUIT DIAGRAMS**

7.9. GAUGES AND WARNING LIGHTS — FUEL FILTER RESTRICTION AND WATER IN FUEL LIGHTS

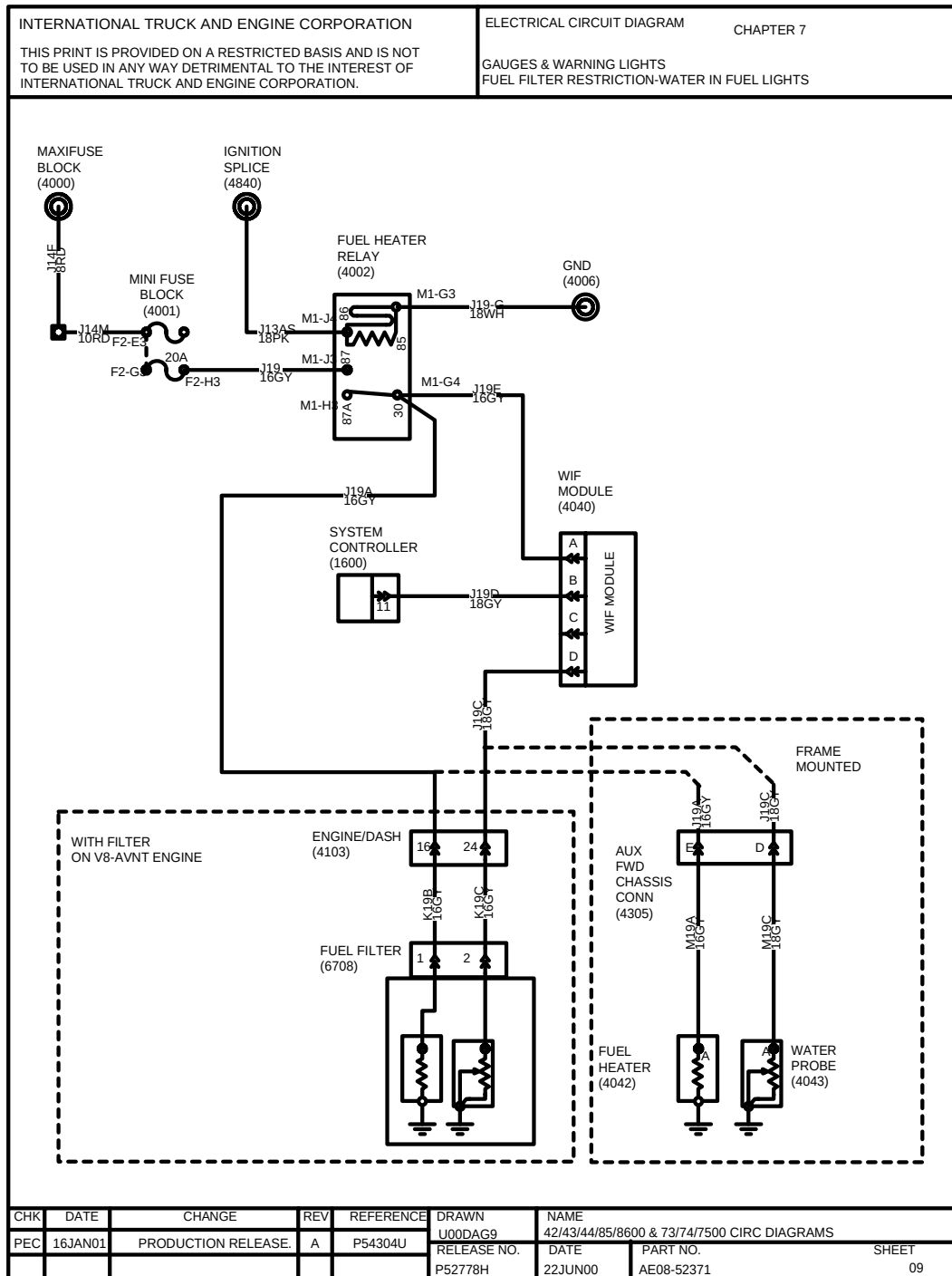


Figure 59 Gauges and Warning Lights — Fuel Filter Restriction and Water in Fuel Lights

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

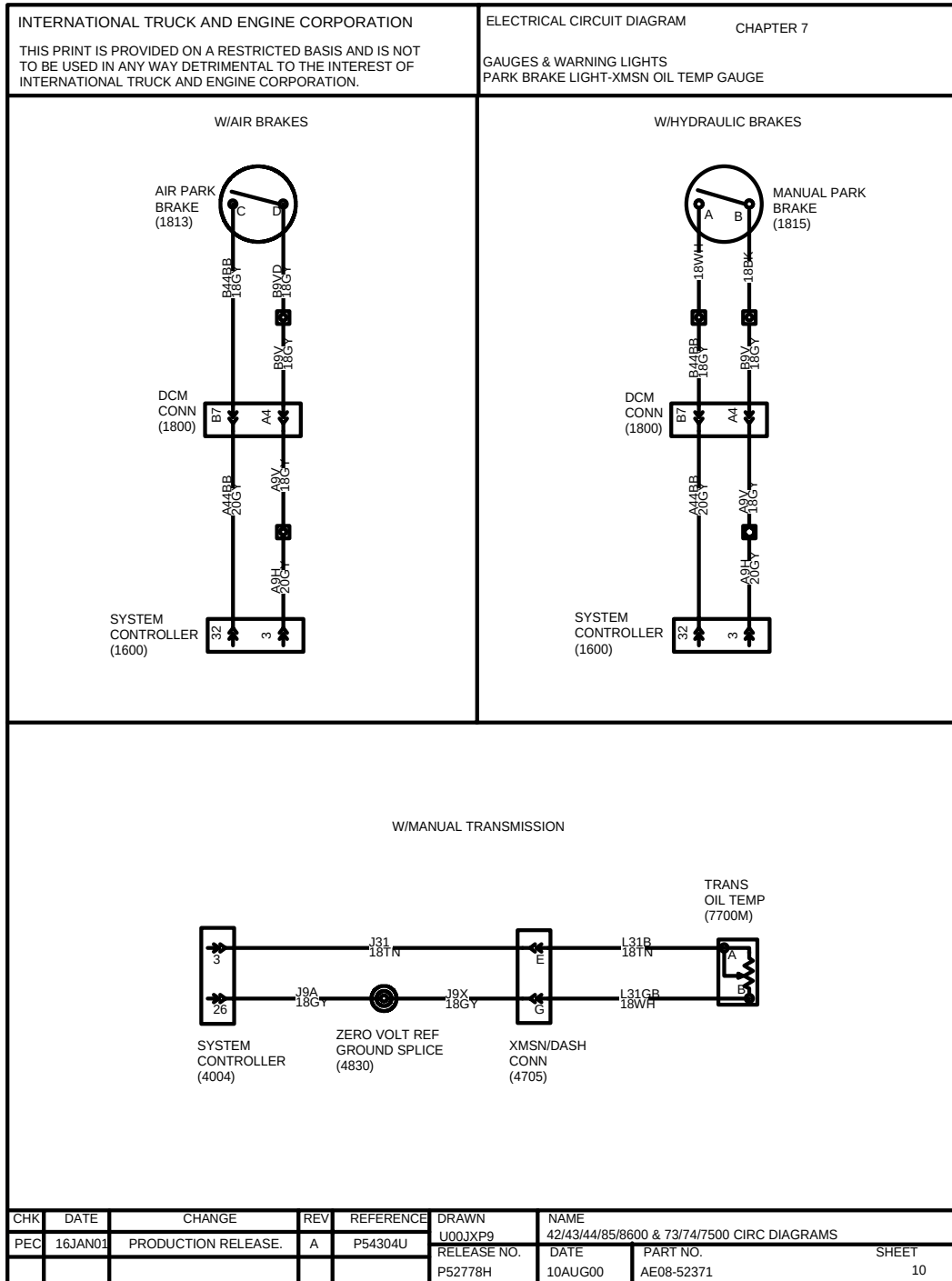
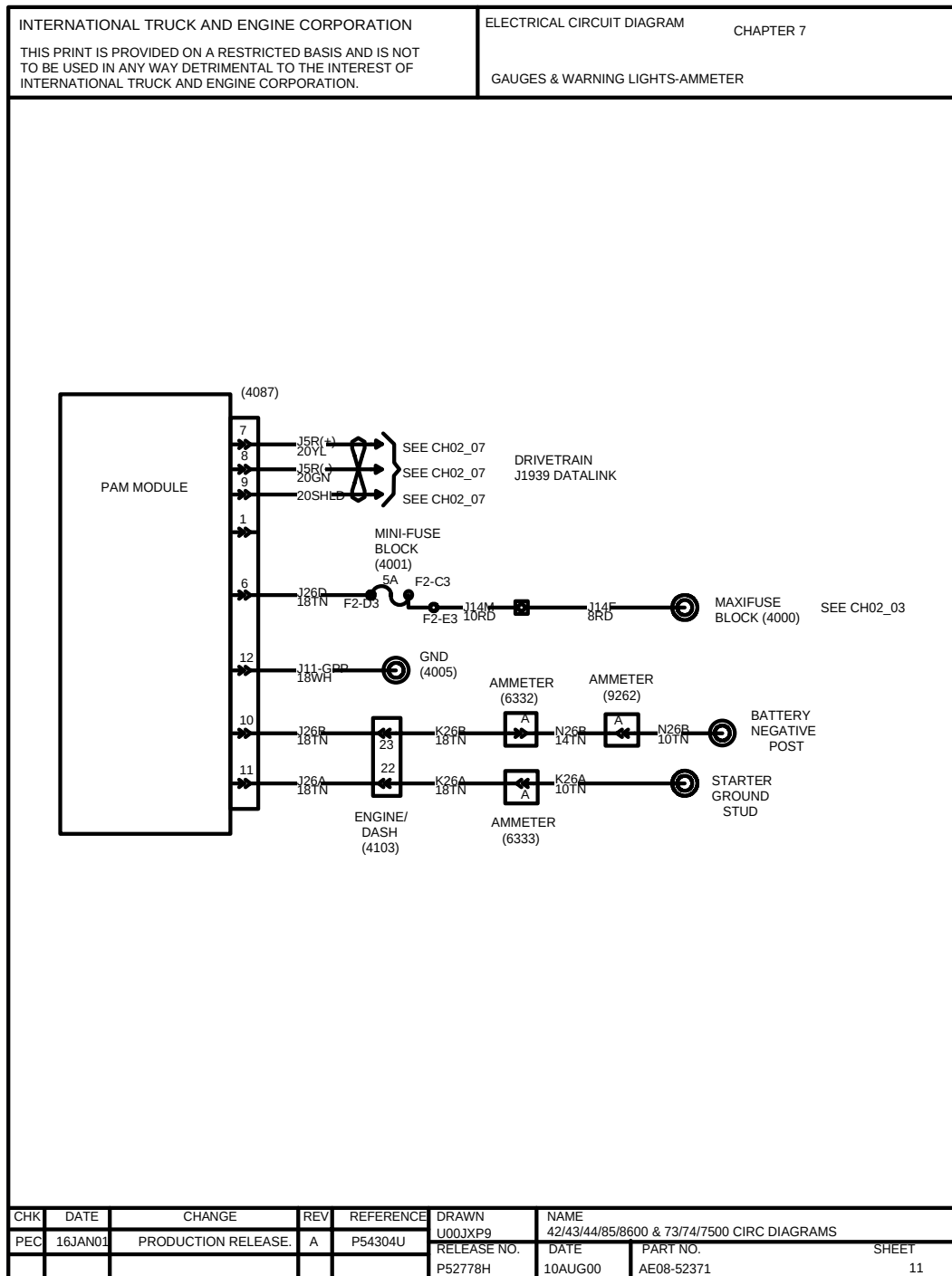


Figure 60 Gauges and Warning Lights — Park Brake Light and Transmission Oil Temp. Gauge

**4200, 4300, 4400 SERIES Built October 16, 2000 to December 31, 2001 —
ELECTRICAL CIRCUIT DIAGRAMS****7.11. GAUGES AND WARNING LIGHTS — AMMETER, P. 11****Figure 61 Gauges and Warning Lights — Ammeter**

TRUCK HOUSE SAC
Ingenieria del Transporte

8. LIGHTS (CHAPTER 8)

8.1. BACK UP LIGHTS, P. 1

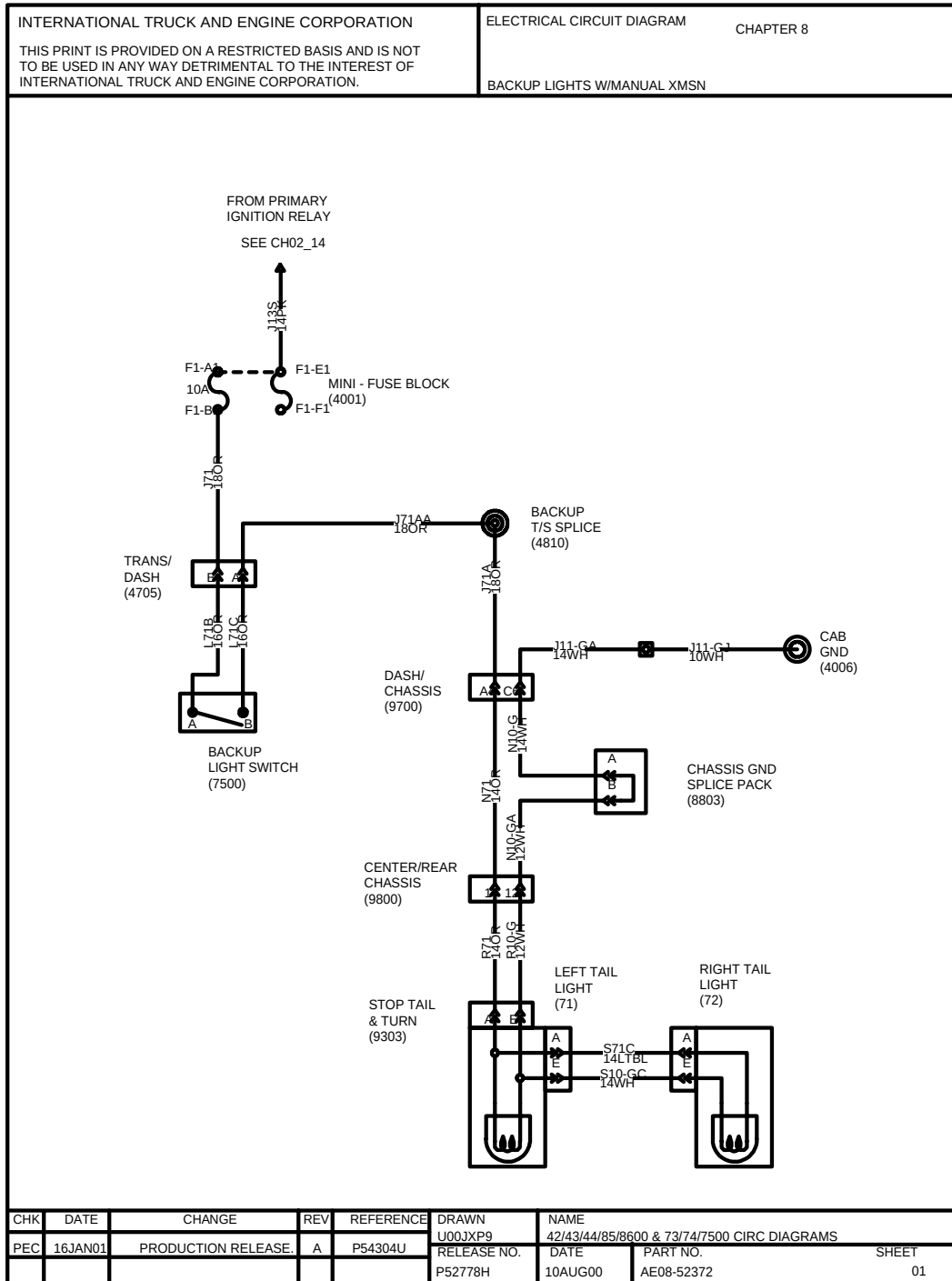


Figure 62 Back Up Lights

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

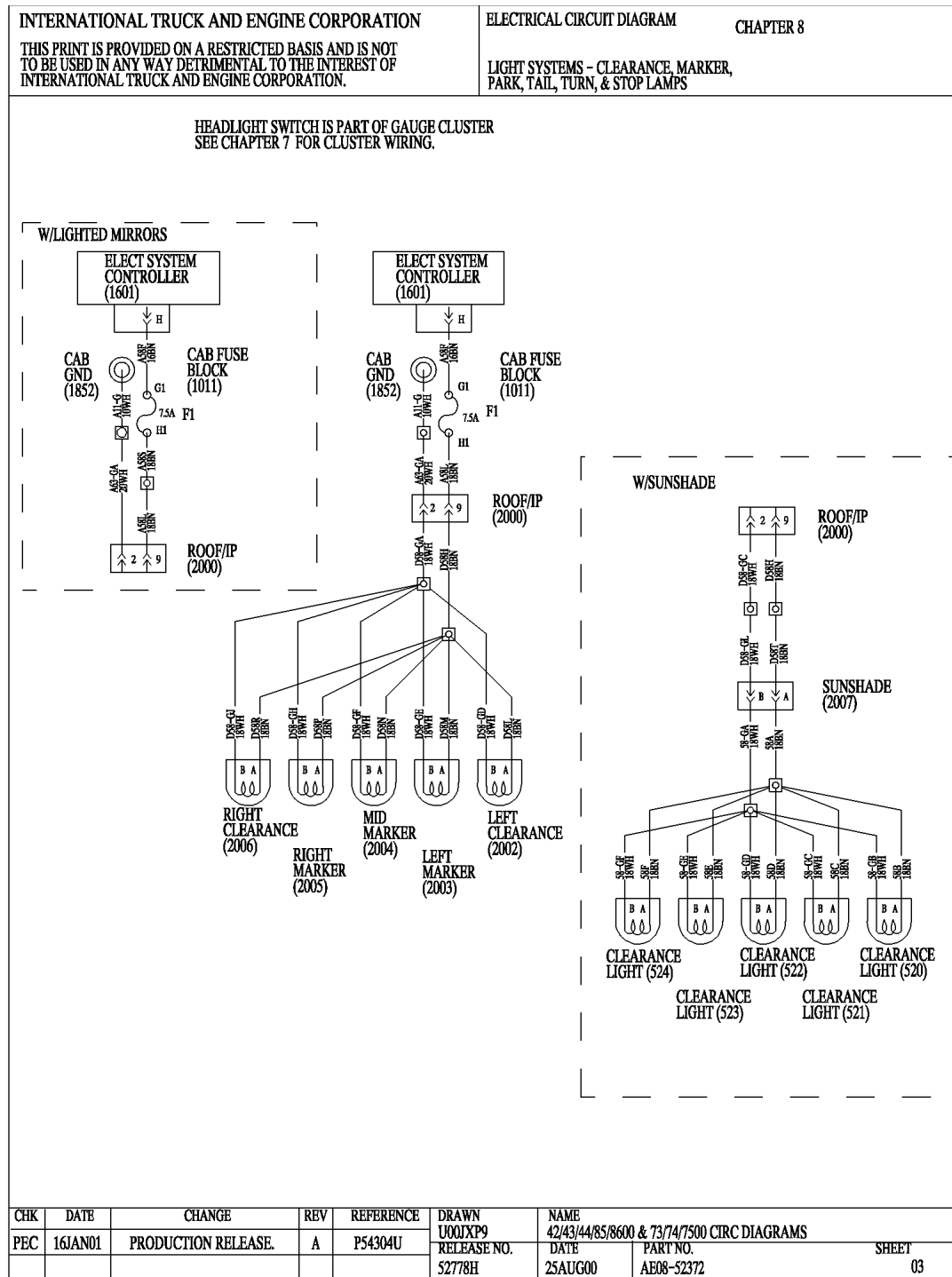


Figure 64 Light Systems — Clearance, Marker, Park, Tail, Turn and Stop Lamps (Cont.)

**4200, 4300, 4400 SERIES Built October 16, 2000 to December 31, 2001 —
ELECTRICAL CIRCUIT DIAGRAMS**

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

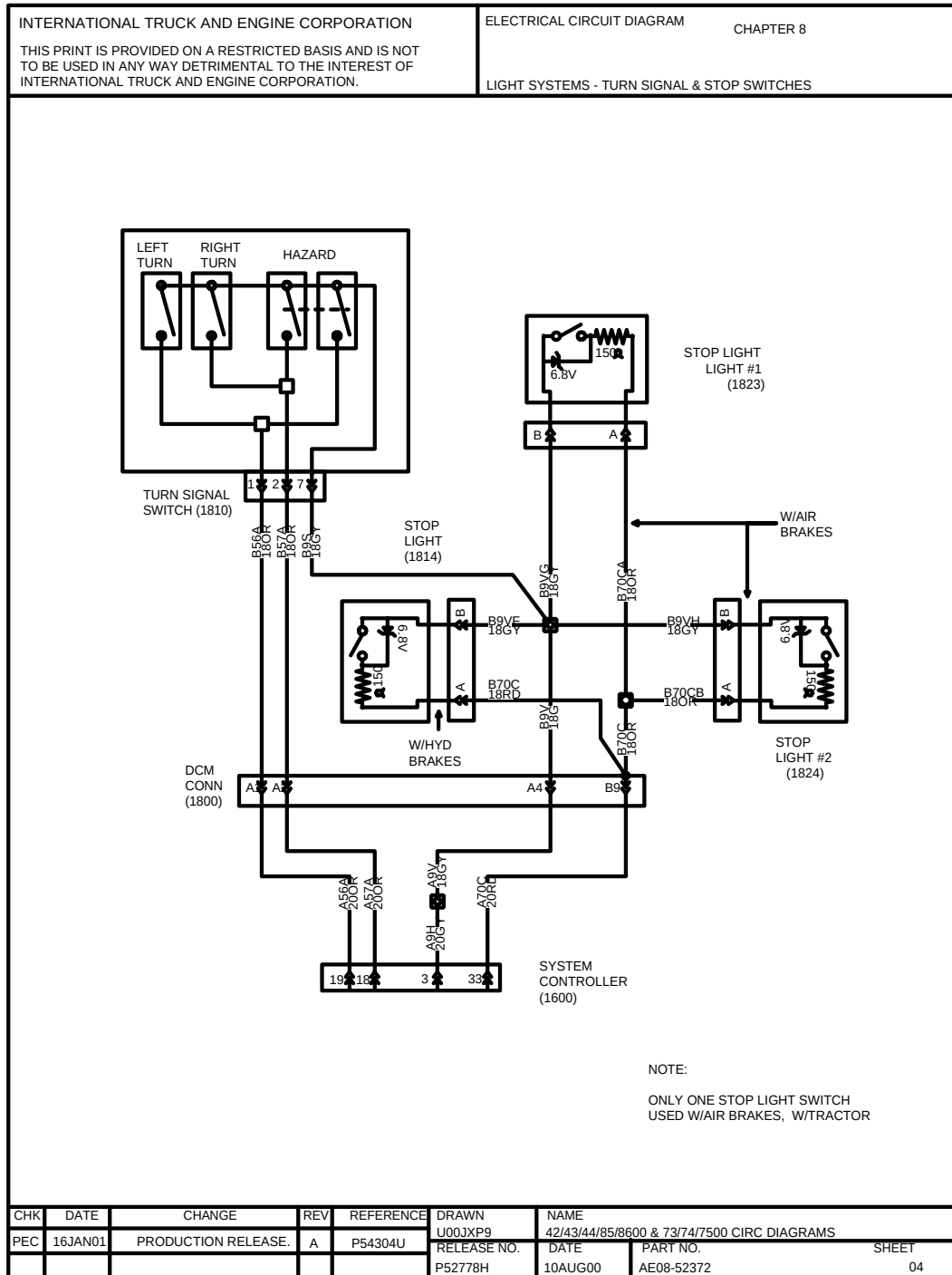


Figure 65 Light Systems — Turn Signal and Stop Switches

TRUCK HOUSE SAC
Ingenieria del Transporte

8.5. DOME LIGHT, MAP LIGHT, P. 5

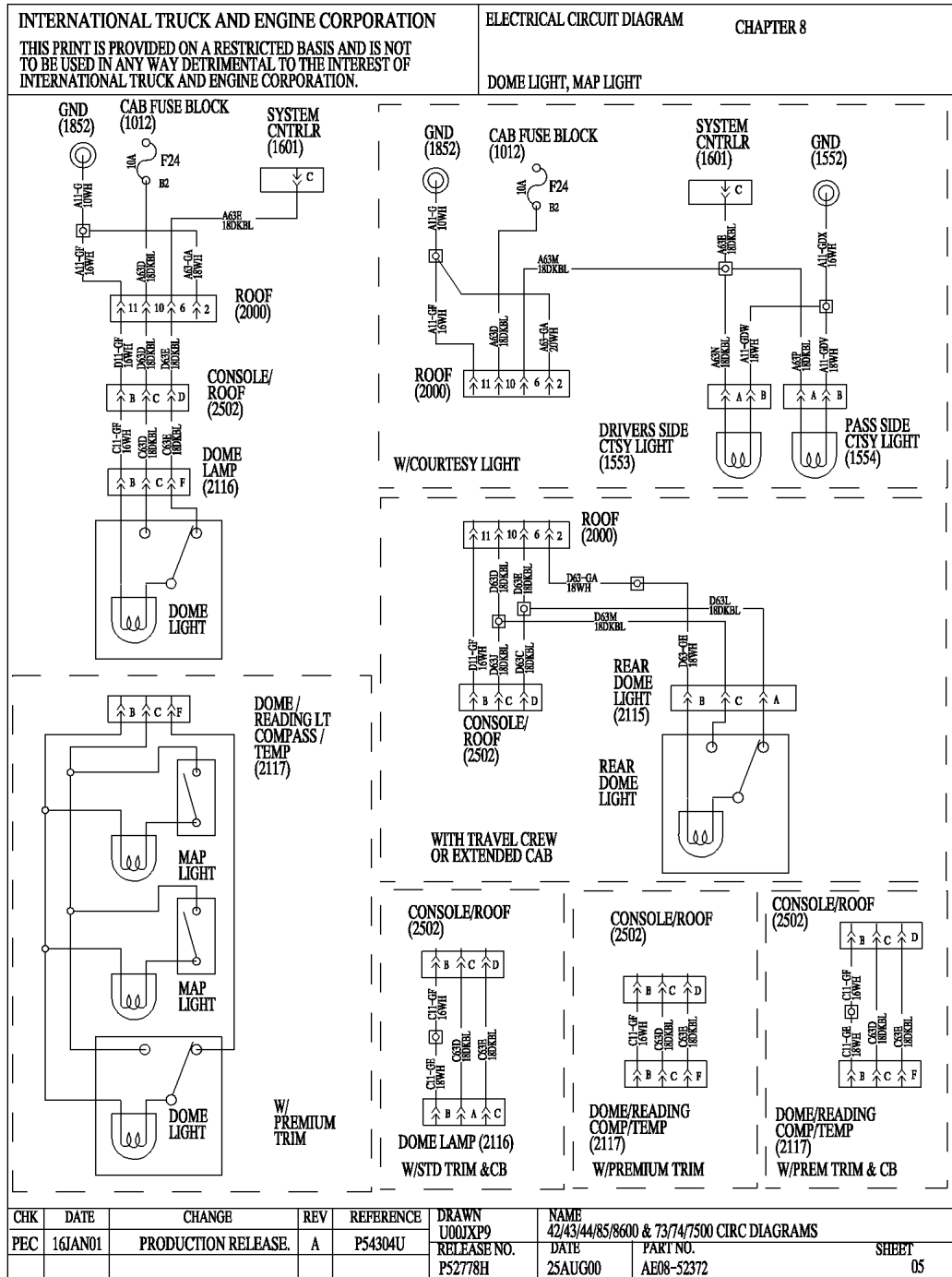


Figure 66 Dome Light, Map Light

**4200, 4300, 4400 SERIES Built October 16, 2000 to December 31, 2001 —
ELECTRICAL CIRCUIT DIAGRAMS**

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

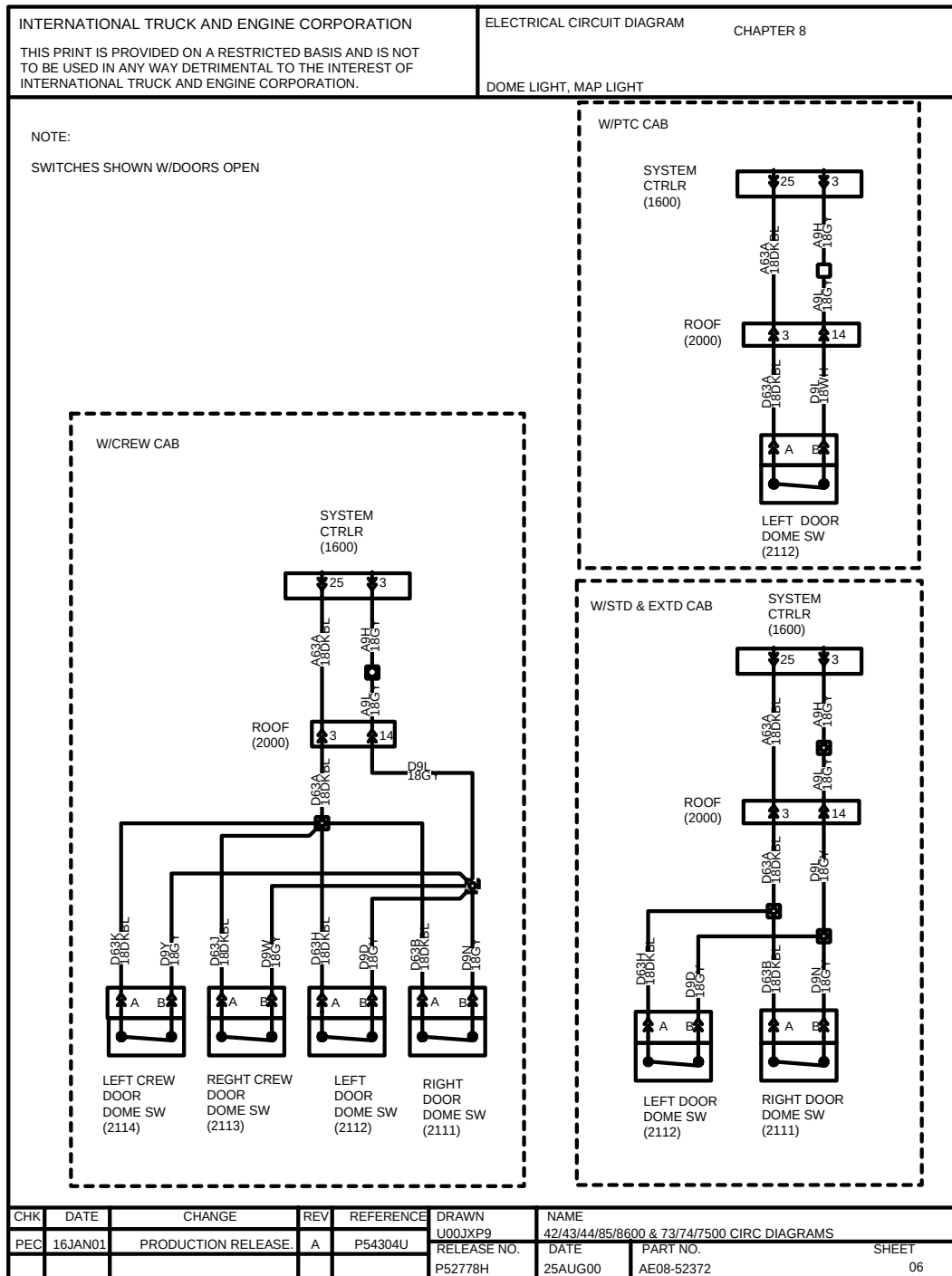


Figure 67 Dome Light, Map Light (Cont.)

TRUCK HOUSE SAC

Ingenieria del Transporte

8.7. FOG LIGHT AND WORK LIGHT, P. 7

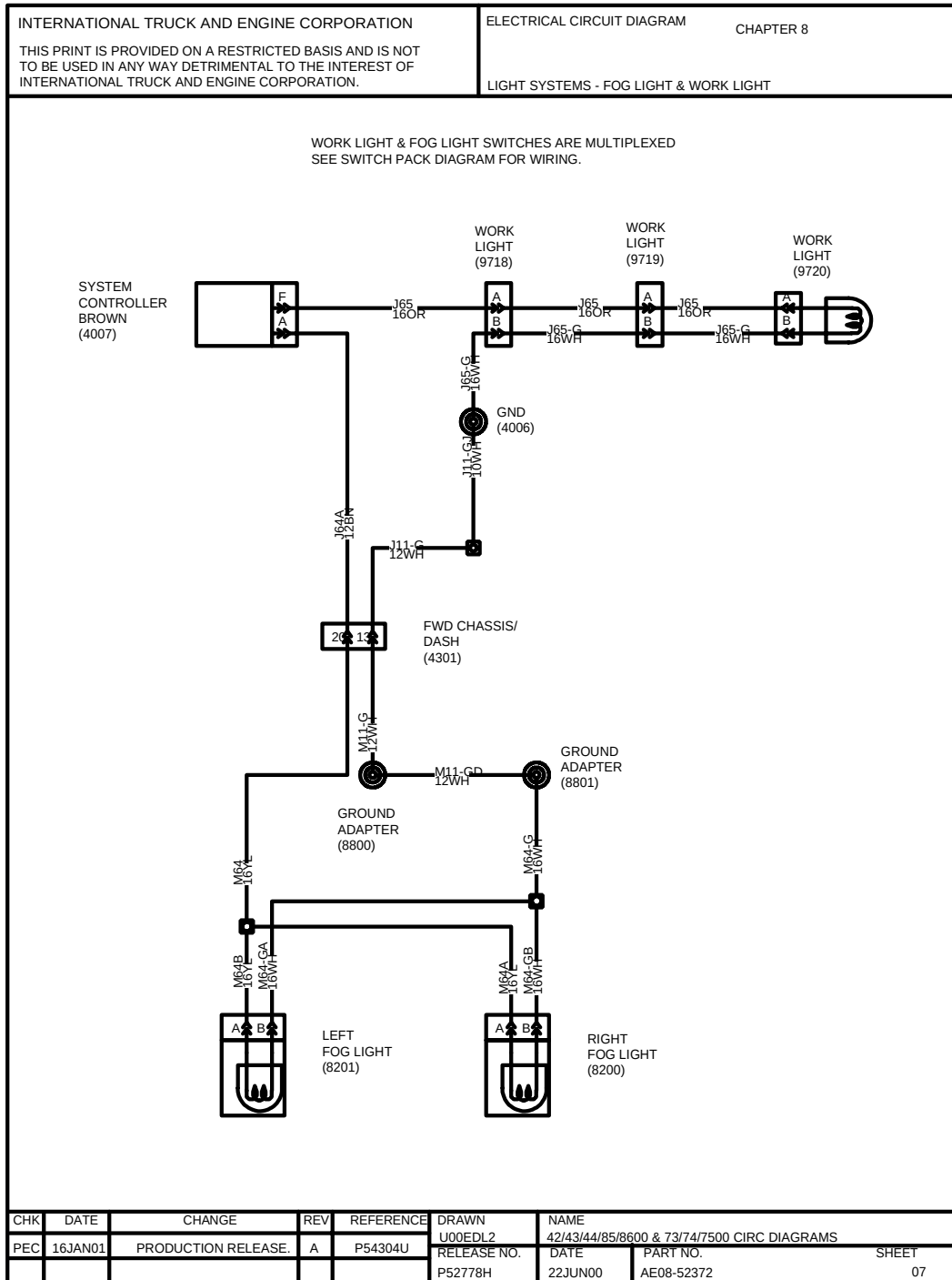
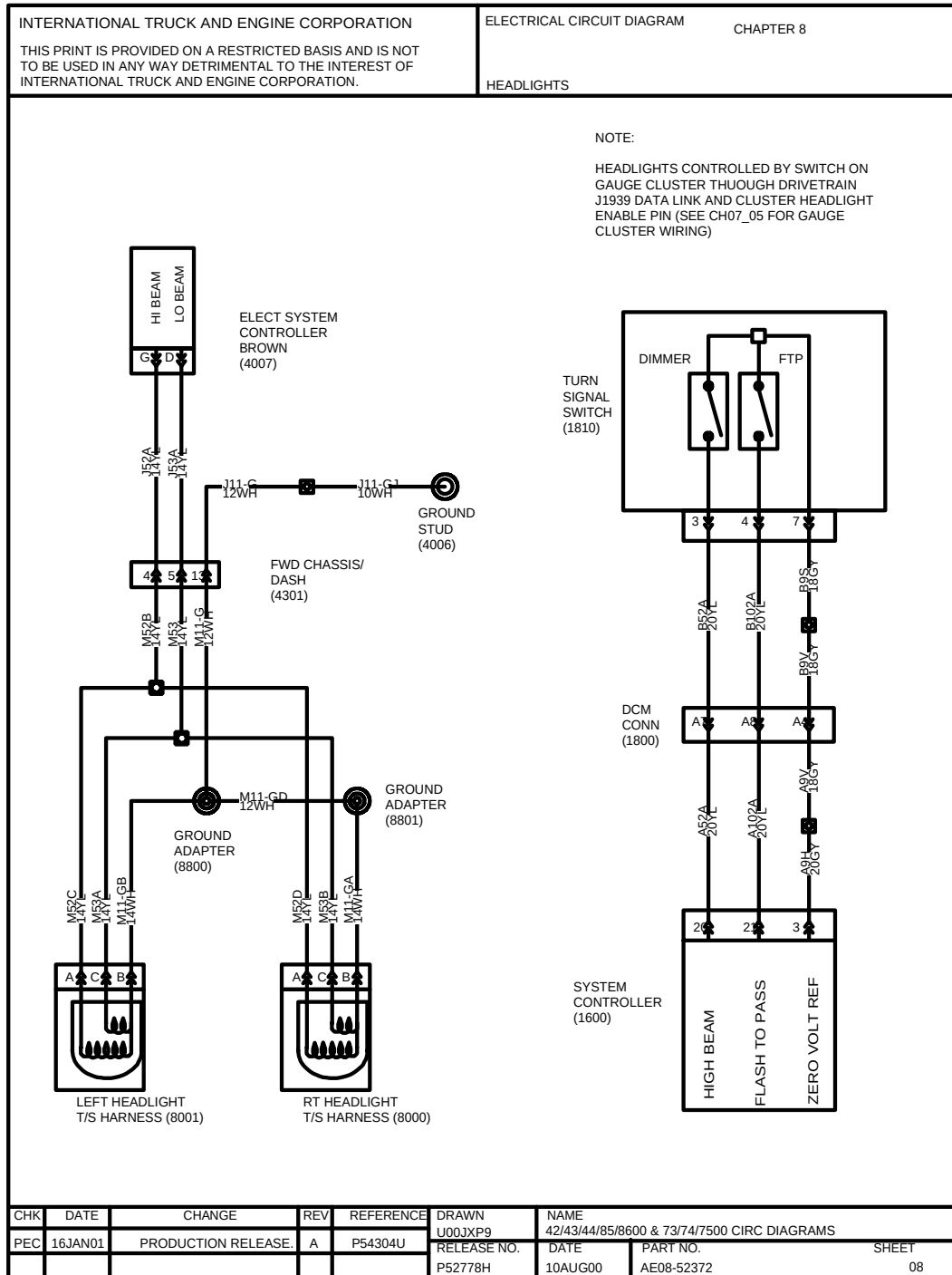


Figure 68 Fog Light and Work Light

TRUCK HOUSE SAC

Ingenieria del Transporte

**4200, 4300, 4400 SERIES Built October 16, 2000 to December 31, 2001 —
ELECTRICAL CIRCUIT DIAGRAMS**

8.8. HEADLIGHTS, P. 8**Figure 69 Headlights**

TRUCK HOUSE SAC

Ingenieria del Transporte

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

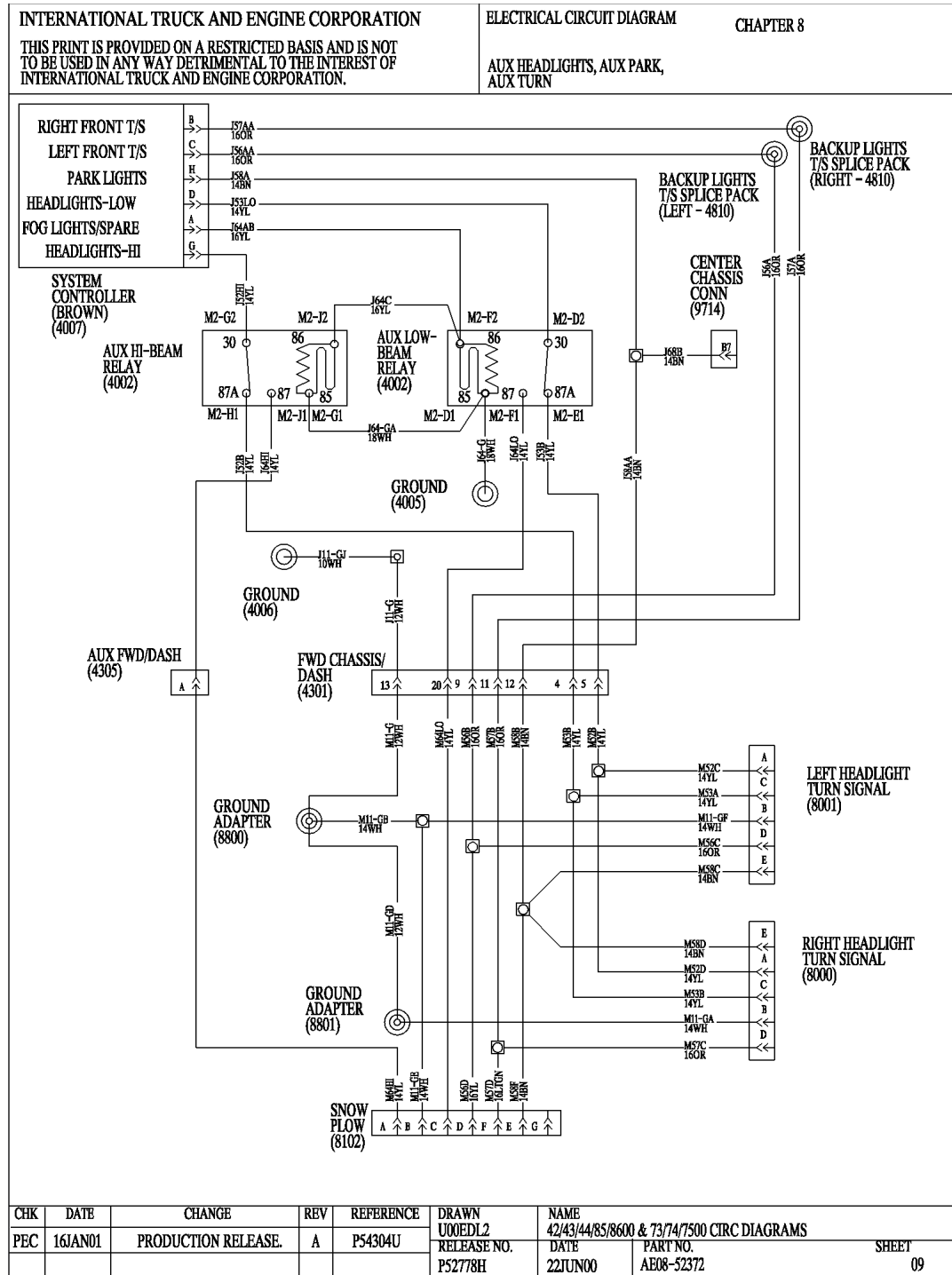
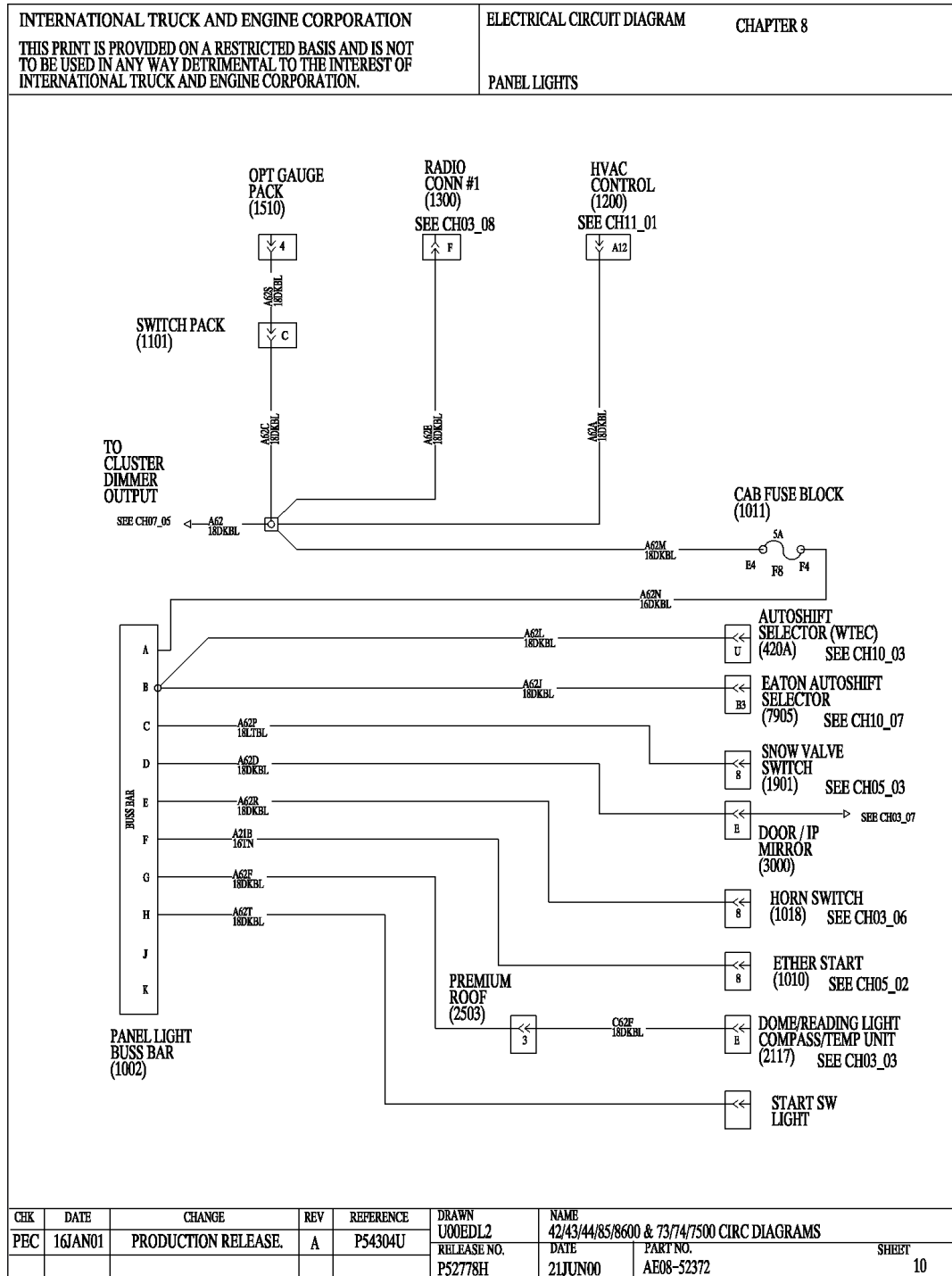


Figure 70 Aux. Headlights, Aux. Park, Aux Turn

**4200, 4300, 4400 SERIES Built October 16, 2000 to December 31, 2001 —
ELECTRICAL CIRCUIT DIAGRAMS**

8.10. PANEL LIGHTS, P. 10**Figure 71 Panel Lights**

TRUCK HOUSE SAC

Ingenieria del Transporte

9. CHASSIS ACCESSORIES (CHAPTER 9)

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

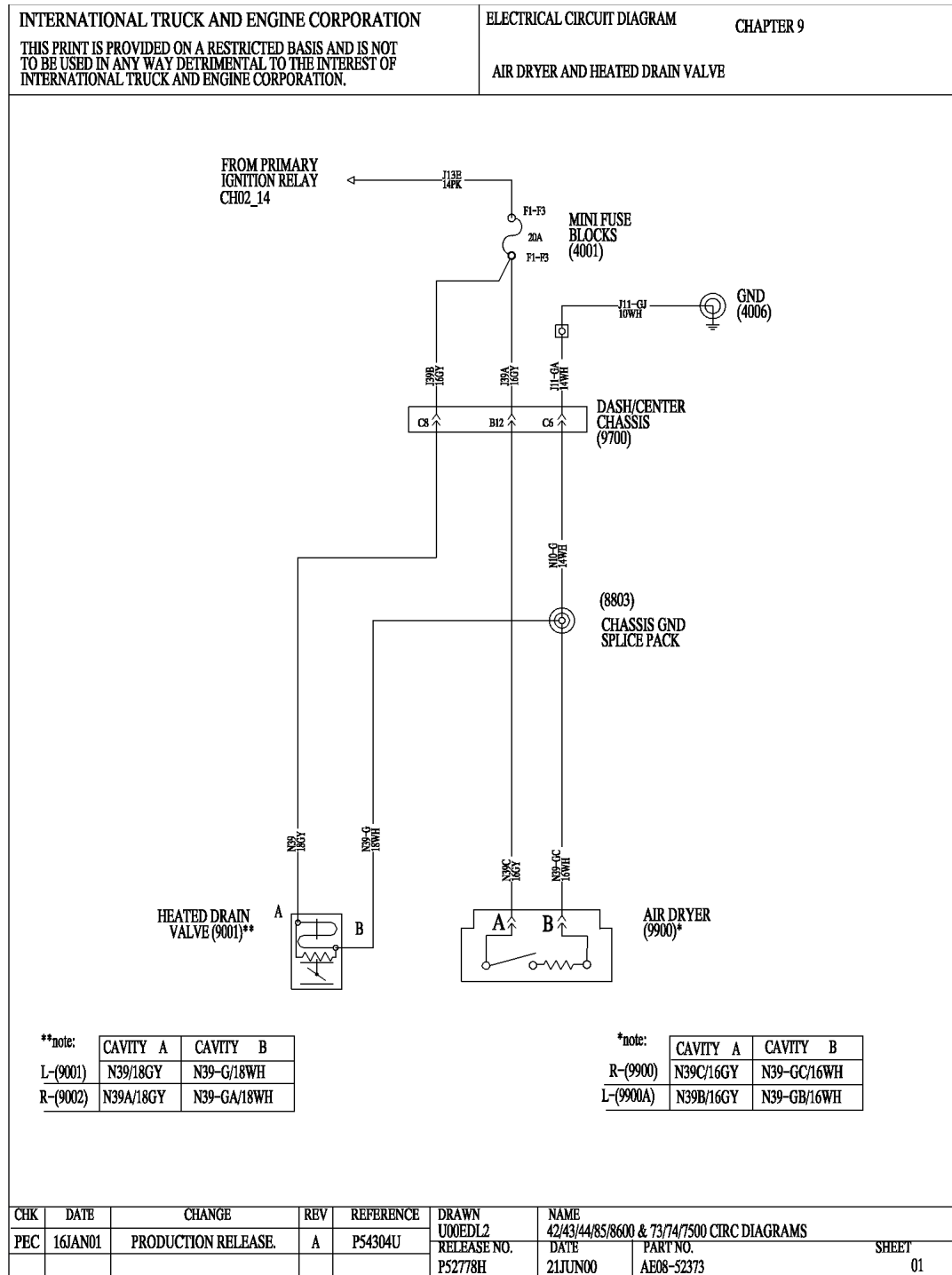


Figure 72 Air Dryer and Heated Drain Valve

**4200, 4300, 4400 SERIES Built October 16, 2000 to December 31, 2001 —
ELECTRICAL CIRCUIT DIAGRAMS**

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

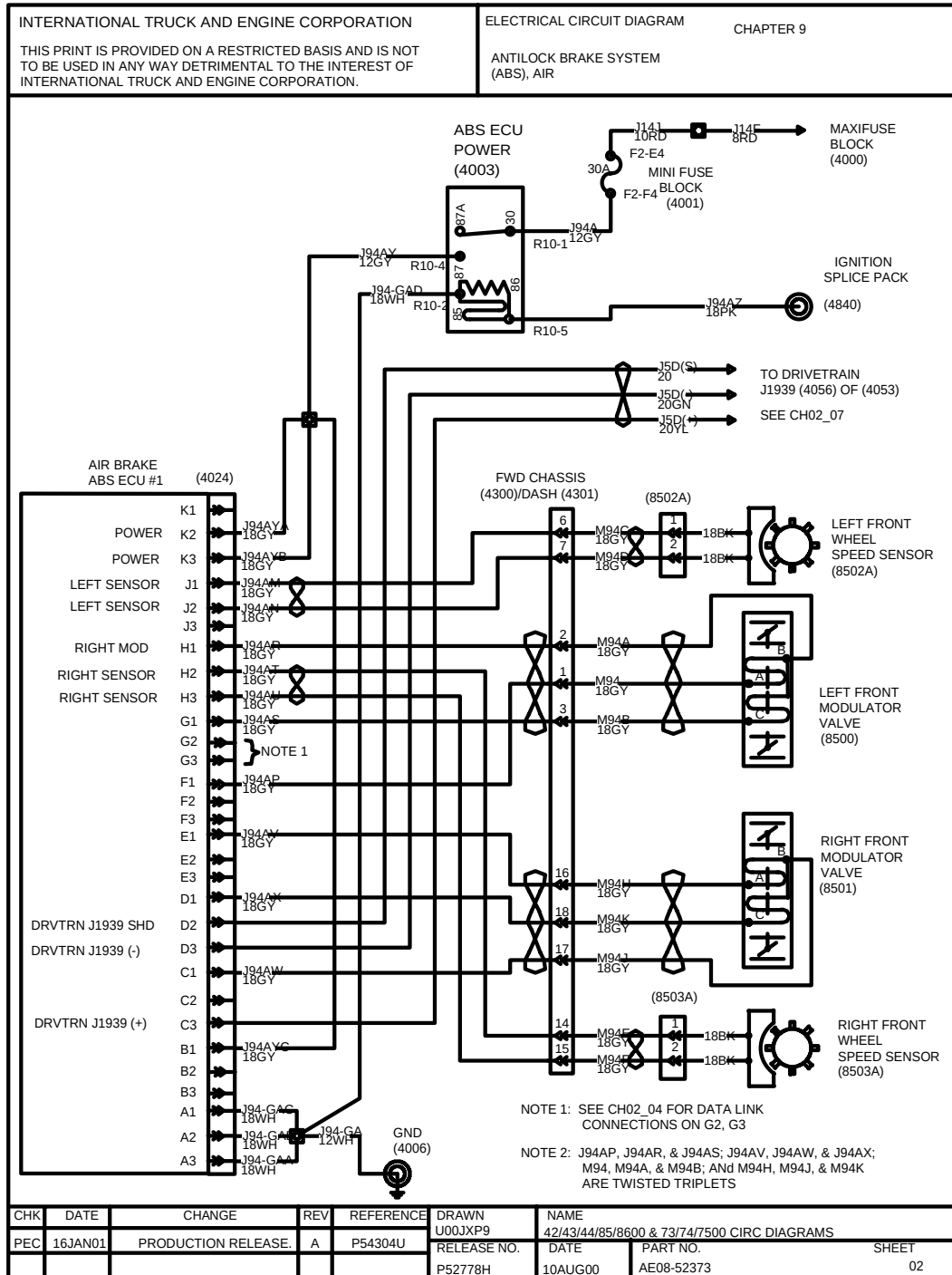


Figure 73 Antilock Brake System (ABS), Air

TRUCK HOUSE SAC

Ingenieria del Transporte

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

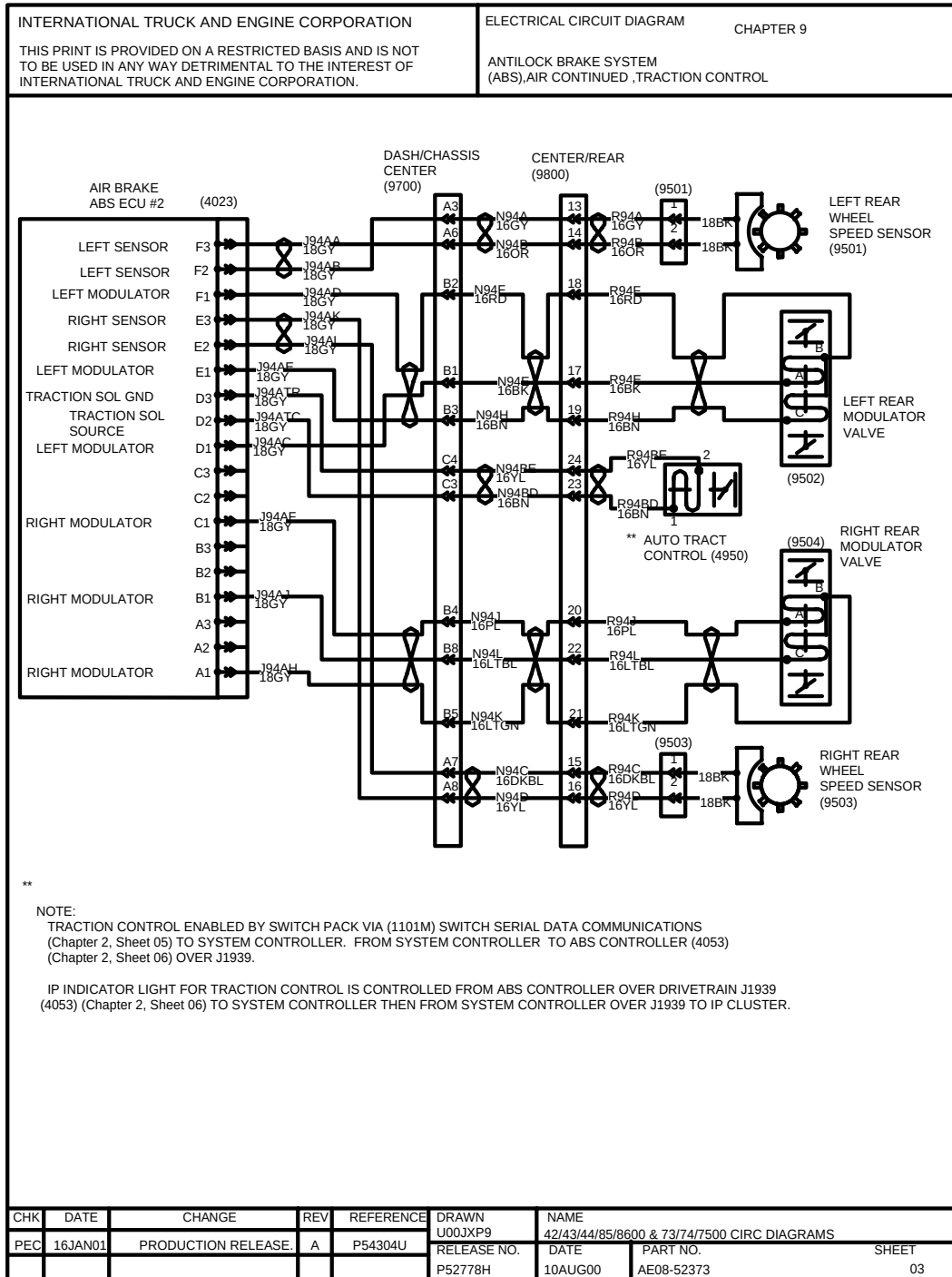


Figure 74 Antilock Brake System (ABS), Air, Traction Control

**4200, 4300, 4400 SERIES Built October 16, 2000 to December 31, 2001 —
ELECTRICAL CIRCUIT DIAGRAMS**

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

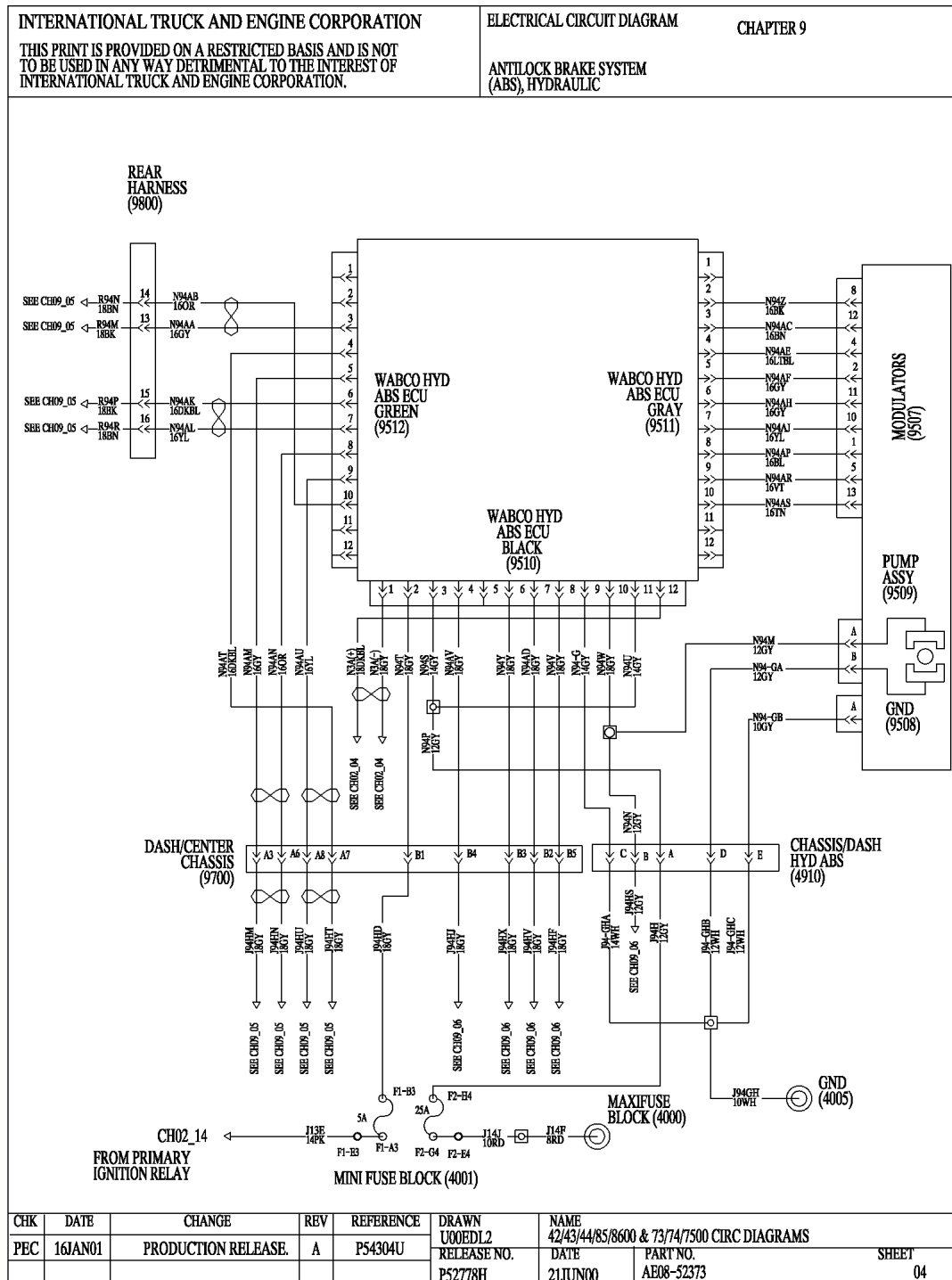
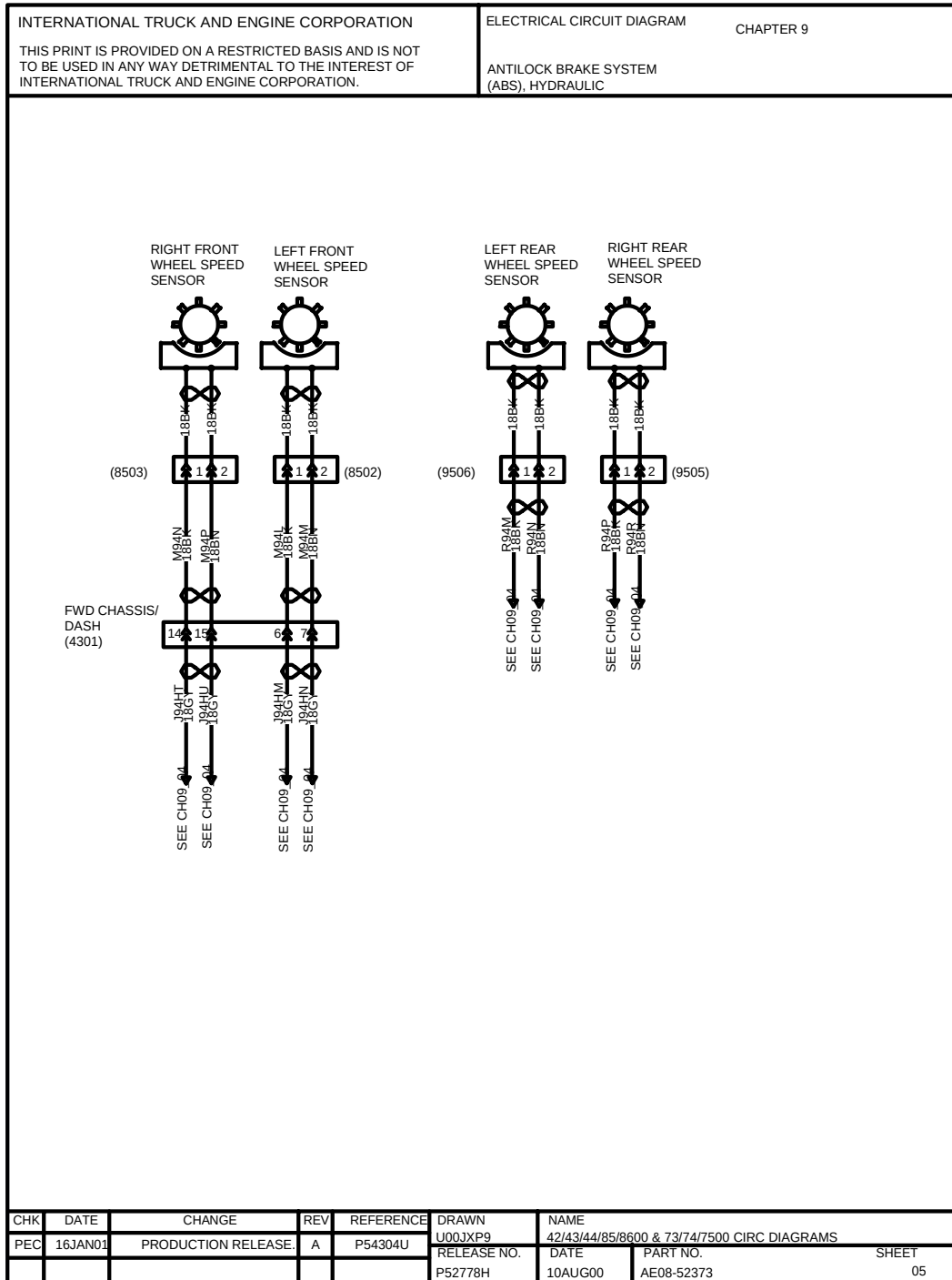


Figure 75 Antilock Brake System (ABS), Hydraulic

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



**4200, 4300, 4400 SERIES Built October 16, 2000 to December 31, 2001 —
ELECTRICAL CIRCUIT DIAGRAMS**

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

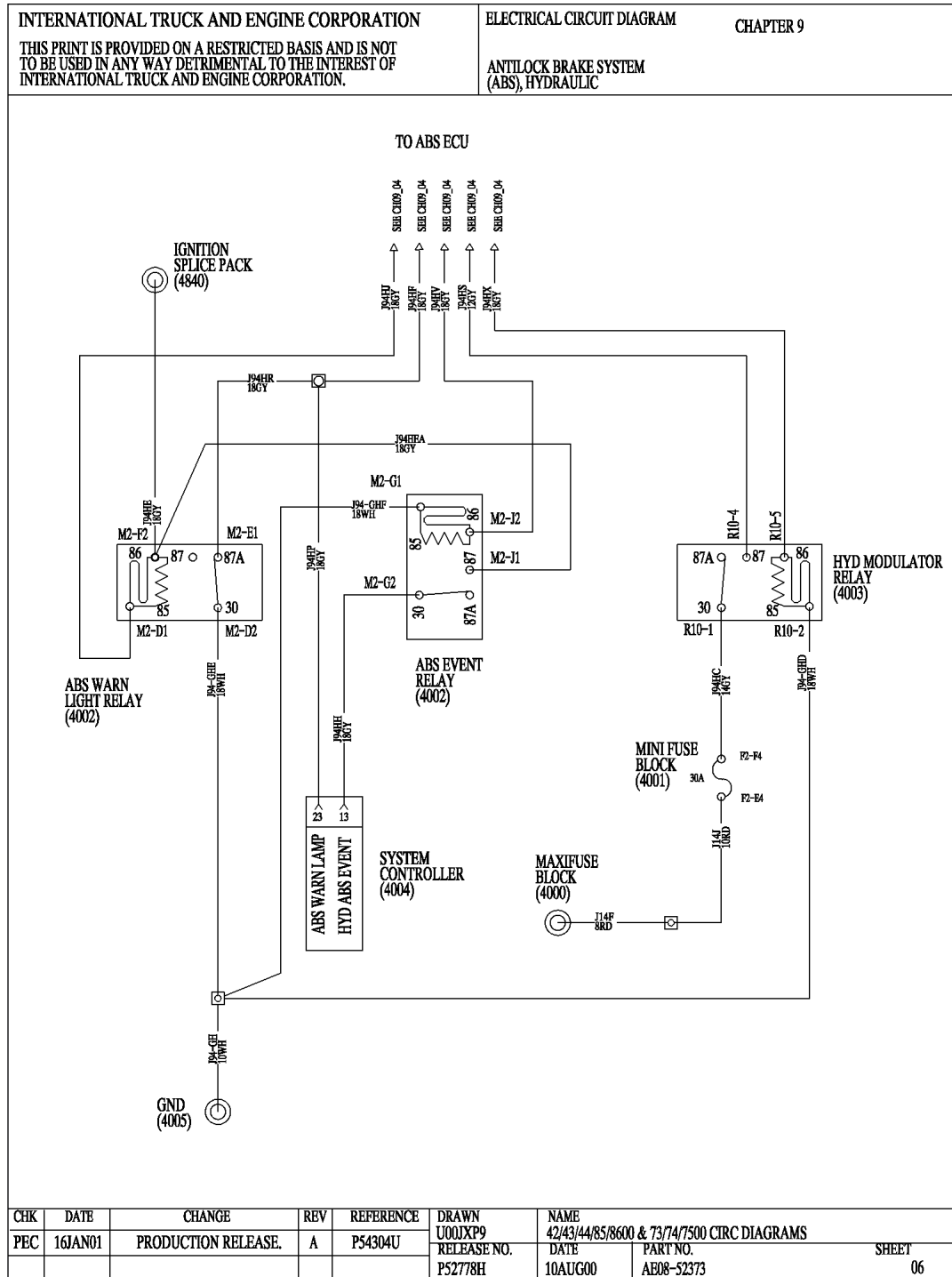


Figure 77 Antilock Brake System (ABS), Hydraulic (Cont.)

9.7. TWO SPEED AXLE SWITCH W/MANUAL TRANSMISSION FUEL HEATER N/WARN LIGHTS, P. 7

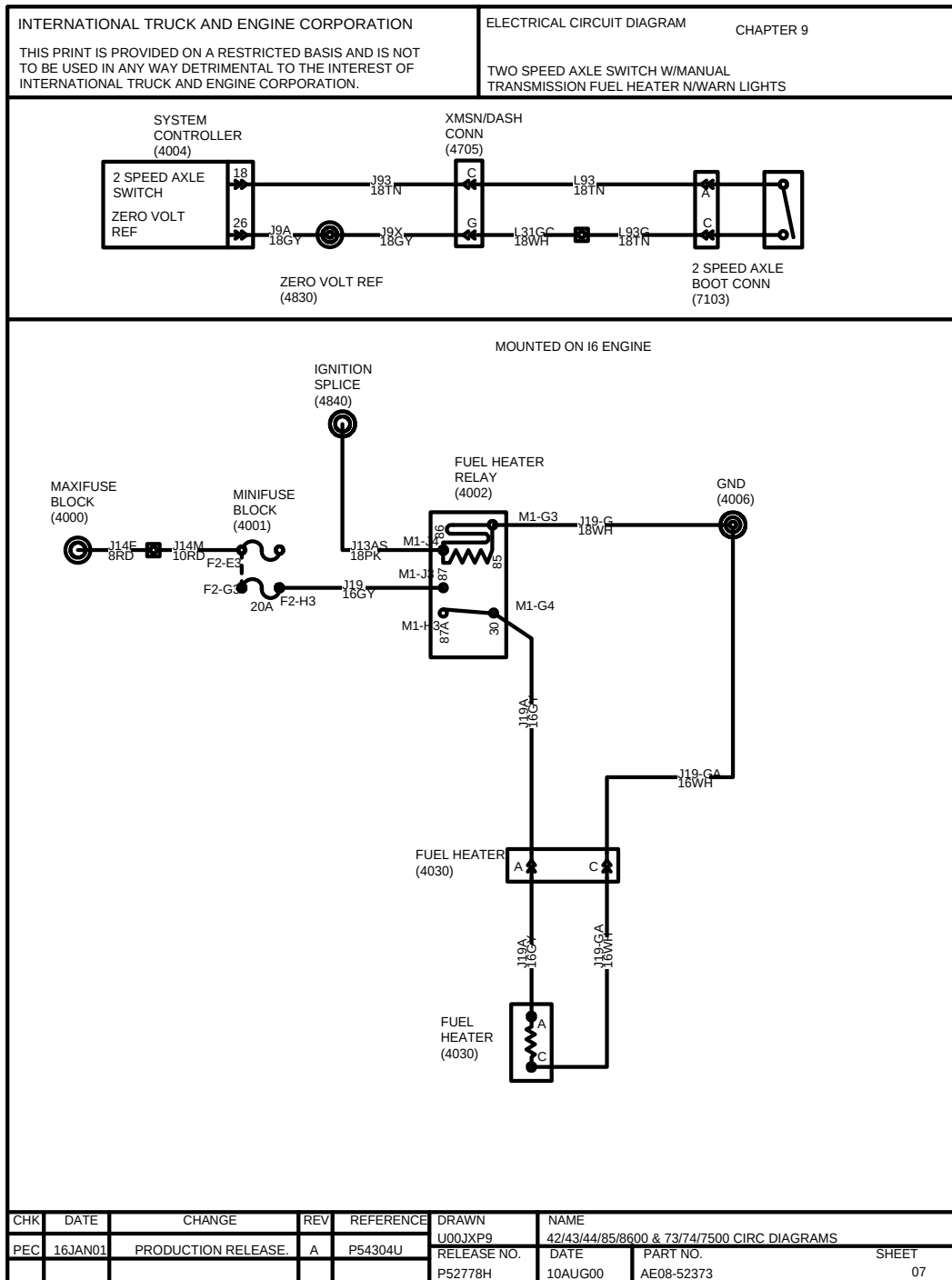


Figure 78 Two Speed Axle Switch W/Manual Transmission Fuel Heater N/Warn Lights

**4200, 4300, 4400 SERIES Built October 16, 2000 to December 31, 2001 —
ELECTRICAL CIRCUIT DIAGRAMS**

9.8. BRAKE SYSTEM, HYDRAULIC, P. 8

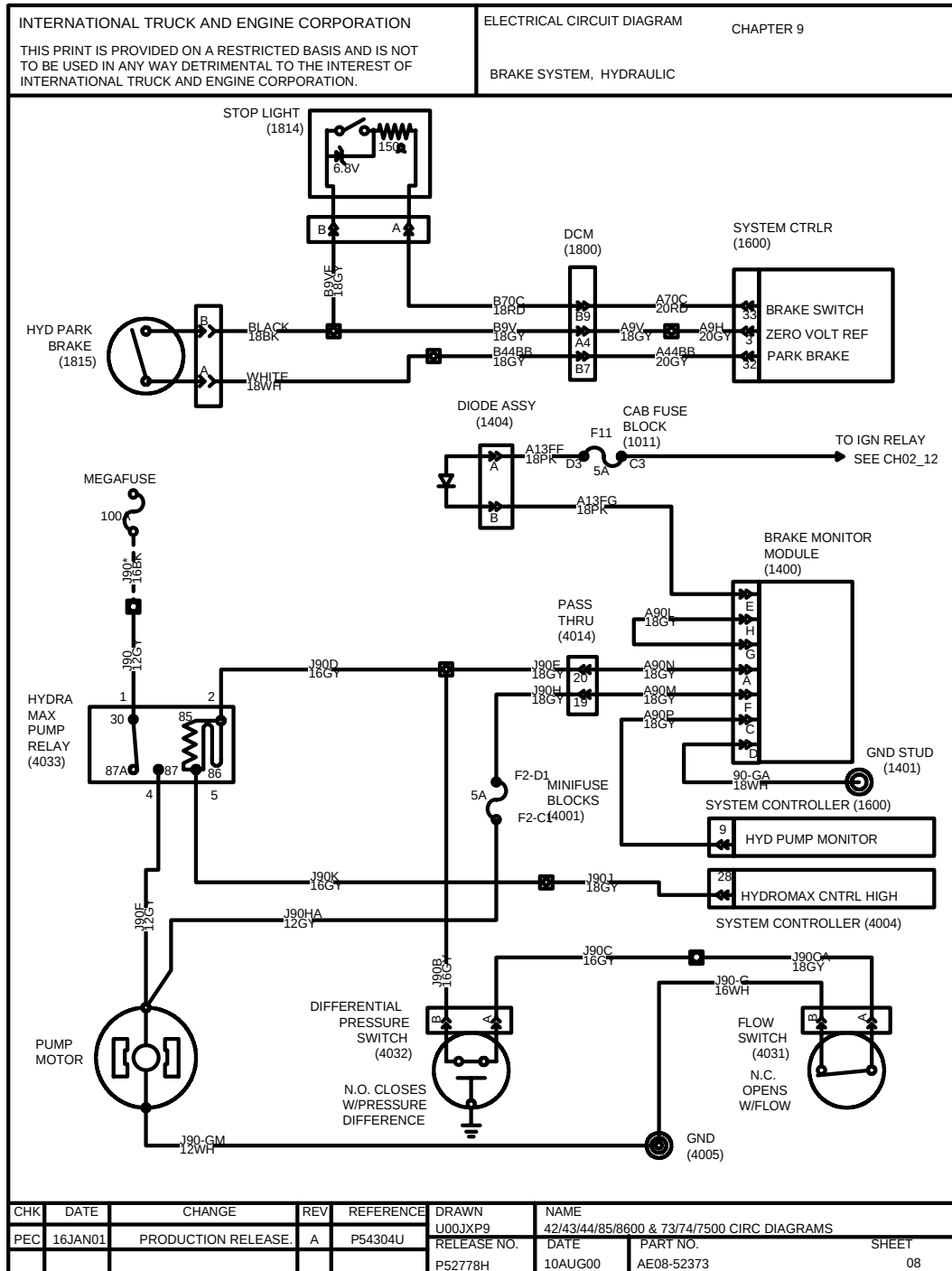


Figure 79 Brake System, Hydraulic

TRUCK HOUSE SAC

Ingenieria del Transporte

9.9. FUEL TRANSFER PUMP, P. 9

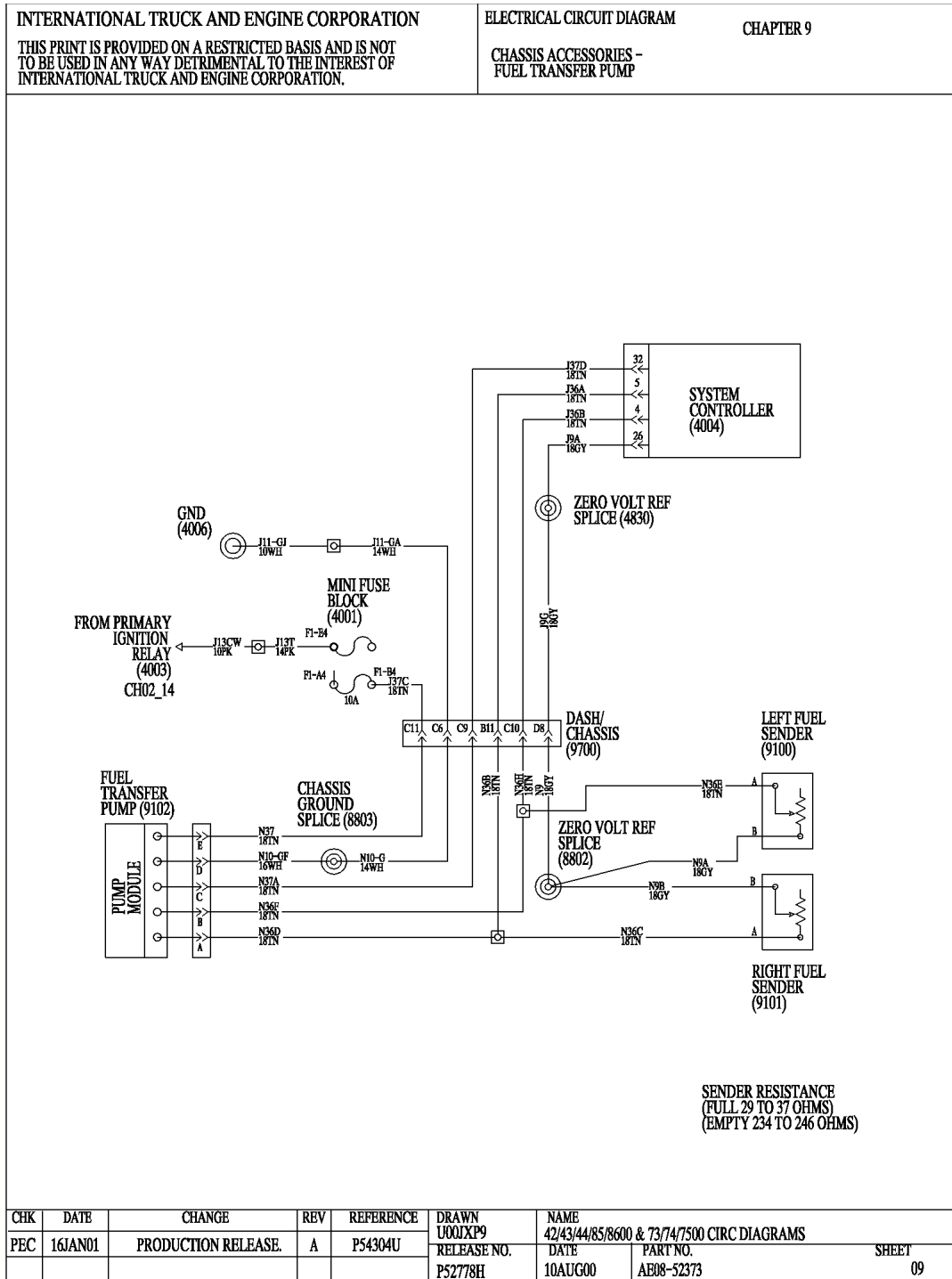


Figure 80 Fuel Transfer Pump

**4200, 4300, 4400 SERIES Built October 16, 2000 to December 31, 2001 —
ELECTRICAL CIRCUIT DIAGRAMS**

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

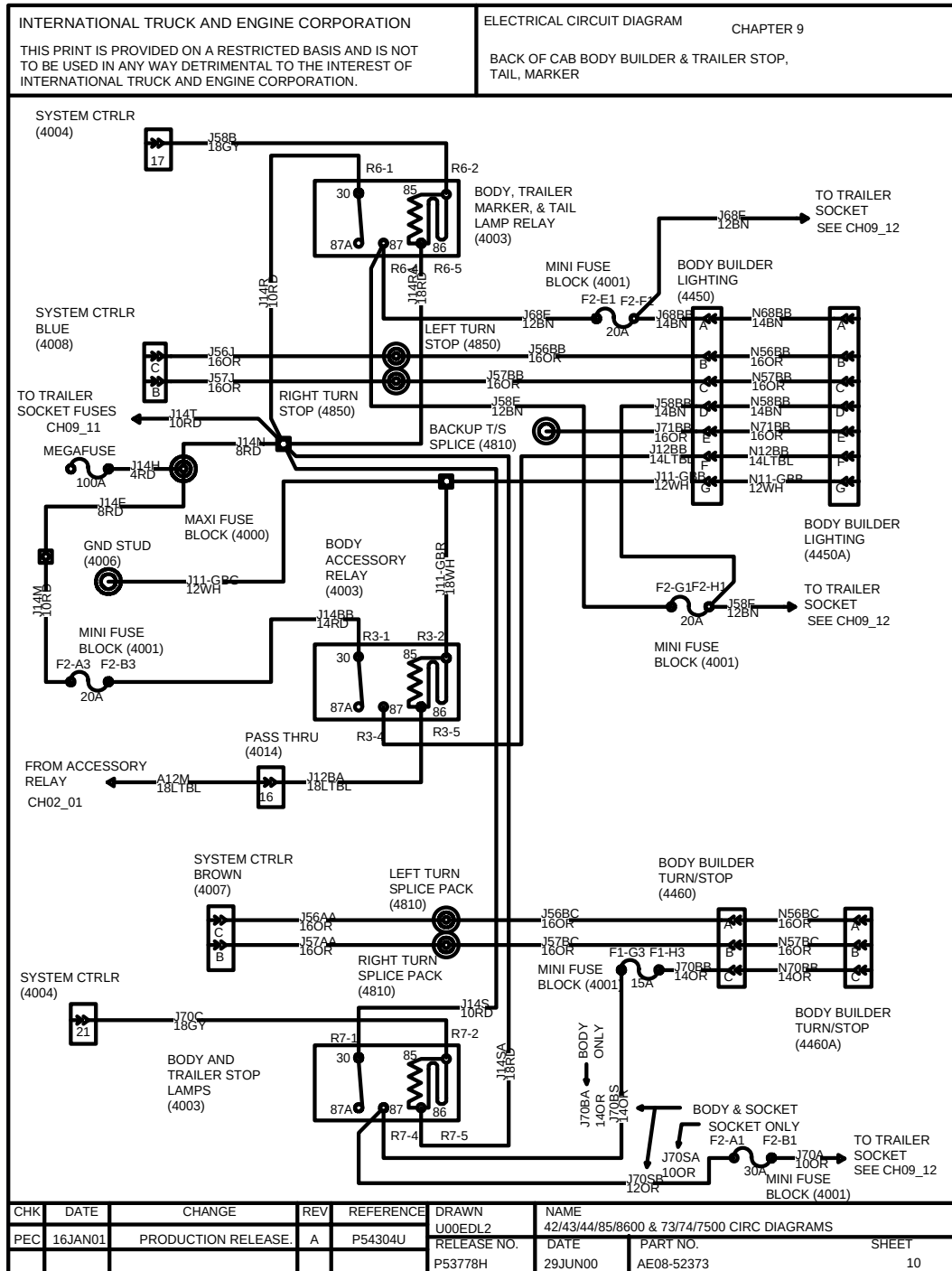


Figure 81 Back of Cab Body Builder and Trailer Stop, Tail, Marker

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

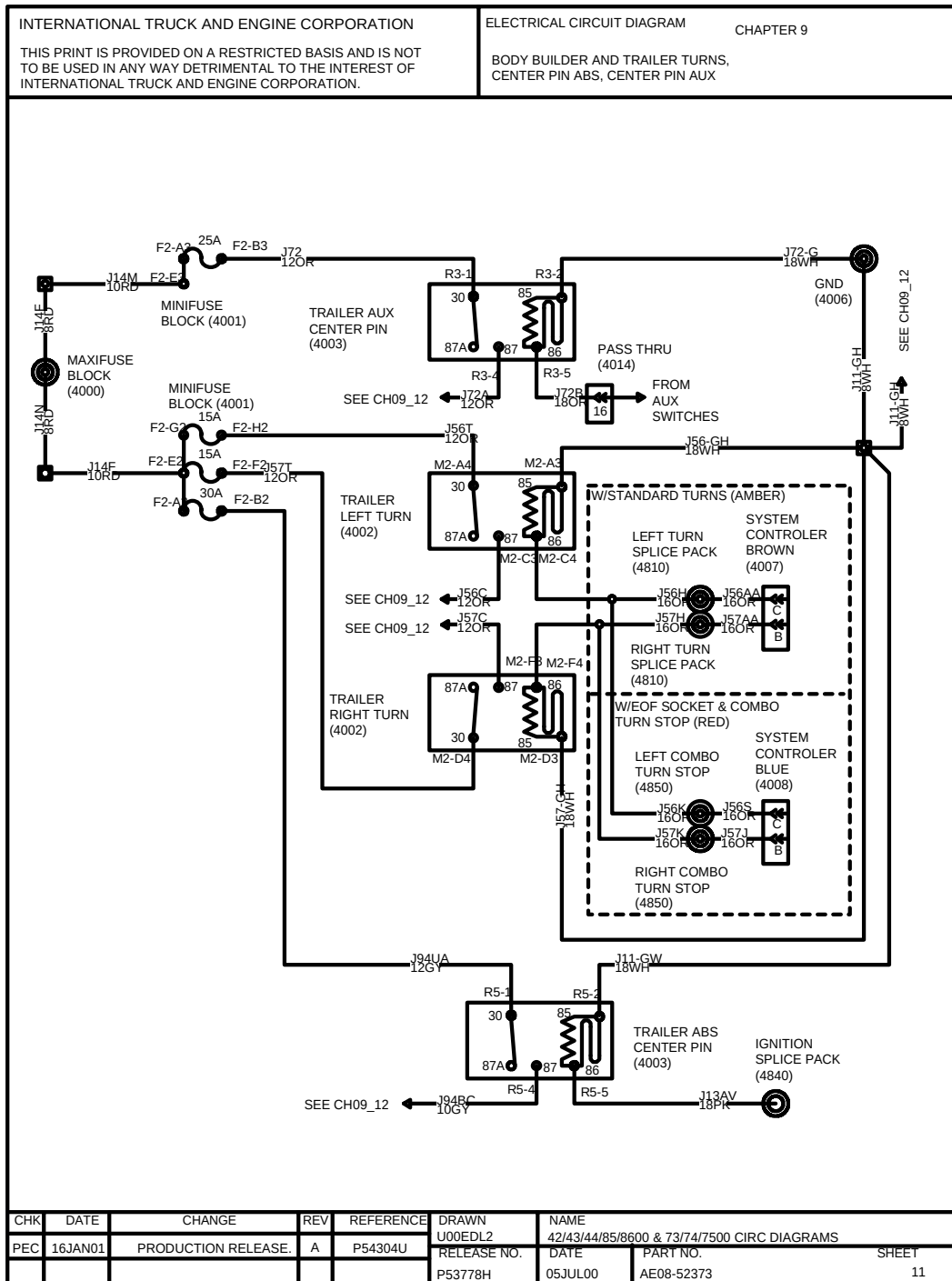


Figure 82 Body Builder and Trailer Turns, Center Pin ABS, Center Pin Aux

**4200, 4300, 4400 SERIES Built October 16, 2000 to December 31, 2001 —
ELECTRICAL CIRCUIT DIAGRAMS**

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

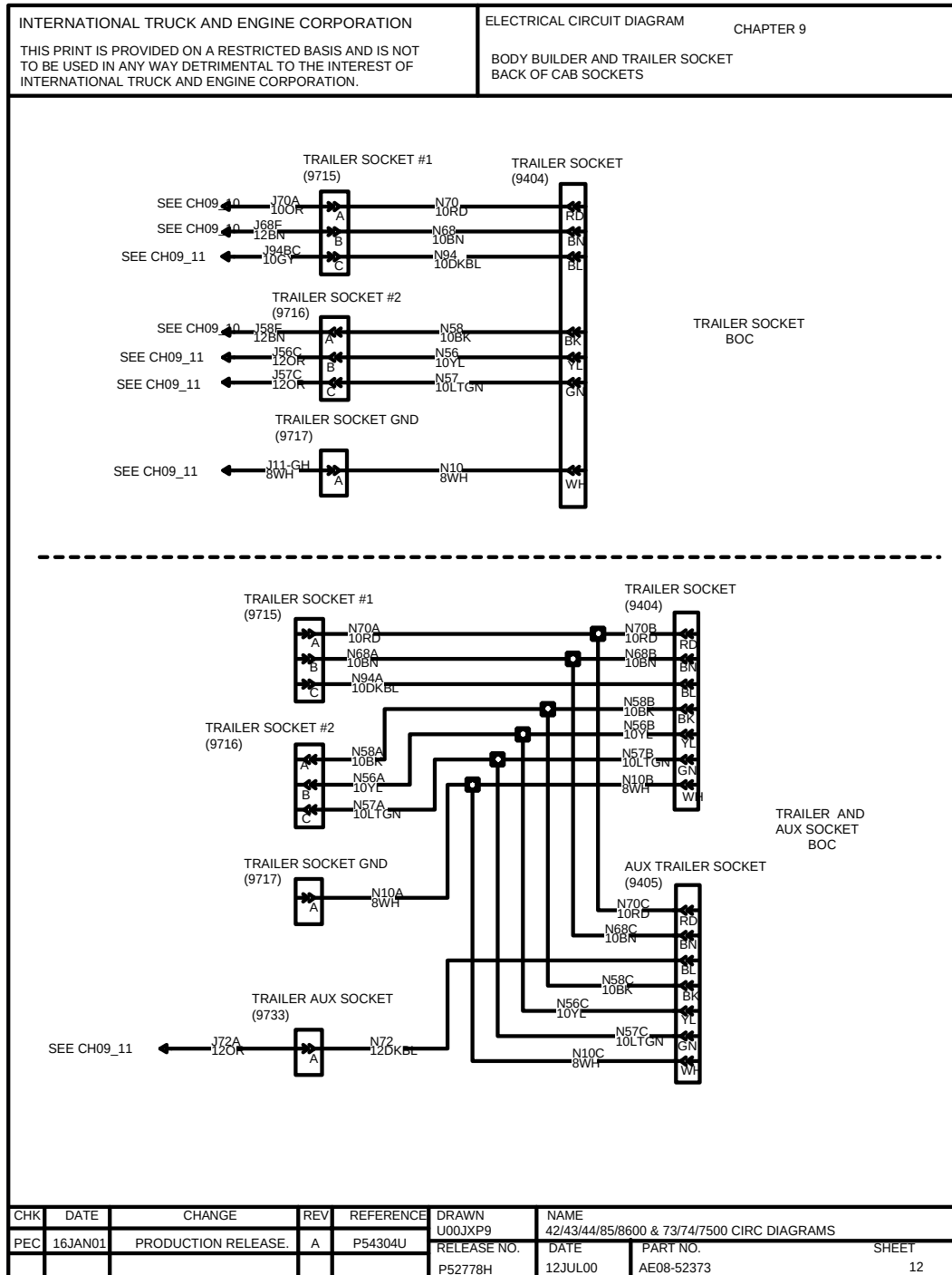


Figure 83 Body Builder and Trailer Socket Back of Cab Sockets

TRUCK HOUSE SAC

Ingenieria del Transporte

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

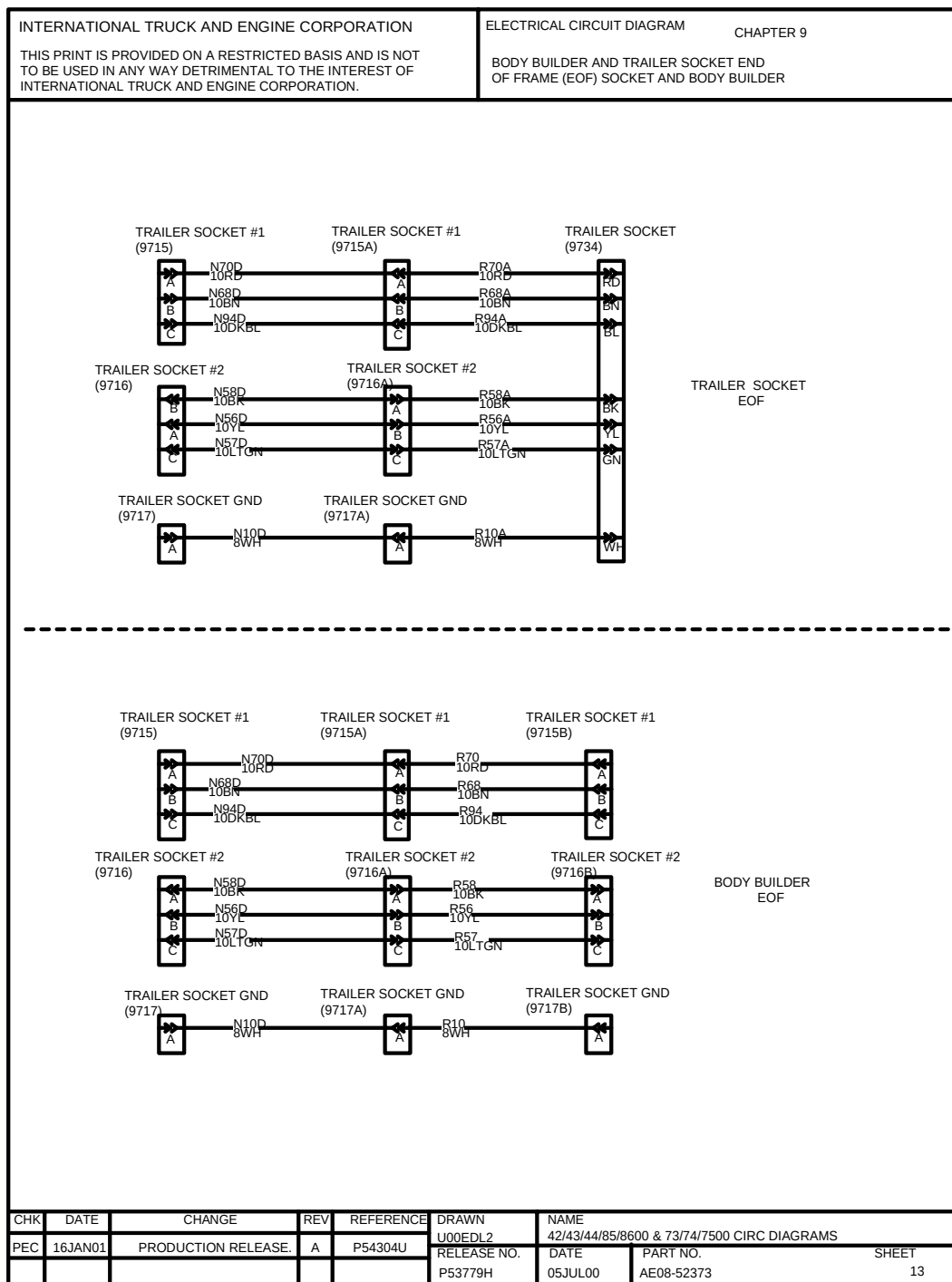


Figure 84 Body Builder and Trailer Socket End of Frame (EOF) Socket and Body Builder

**4200, 4300, 4400 SERIES Built October 16, 2000 to December 31, 2001 —
ELECTRICAL CIRCUIT DIAGRAMS**

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

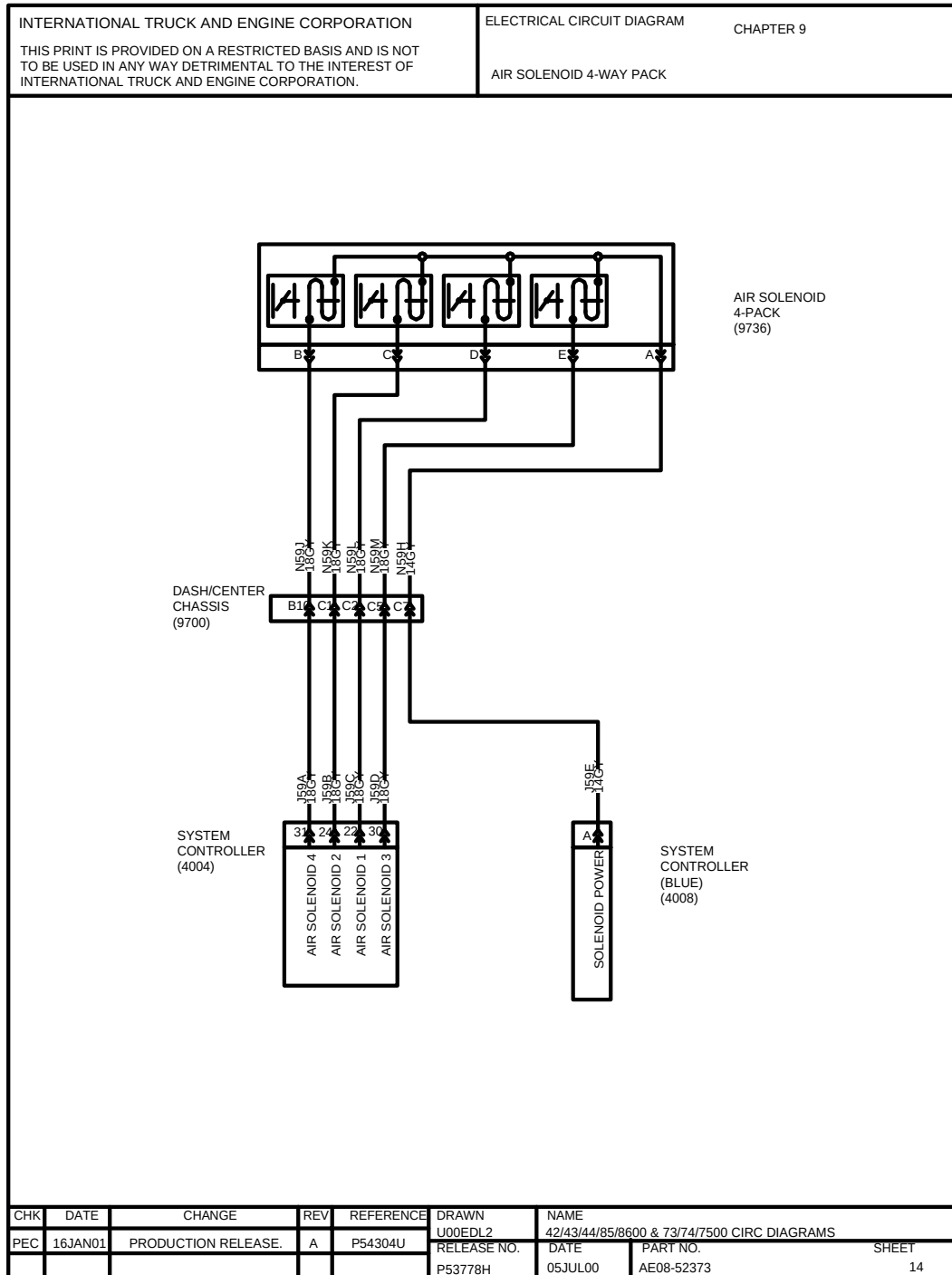


Figure 85 Air Solenoid 4-Way Pack

TRUCK HOUSE SAC
Ingenieria del Transporte

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

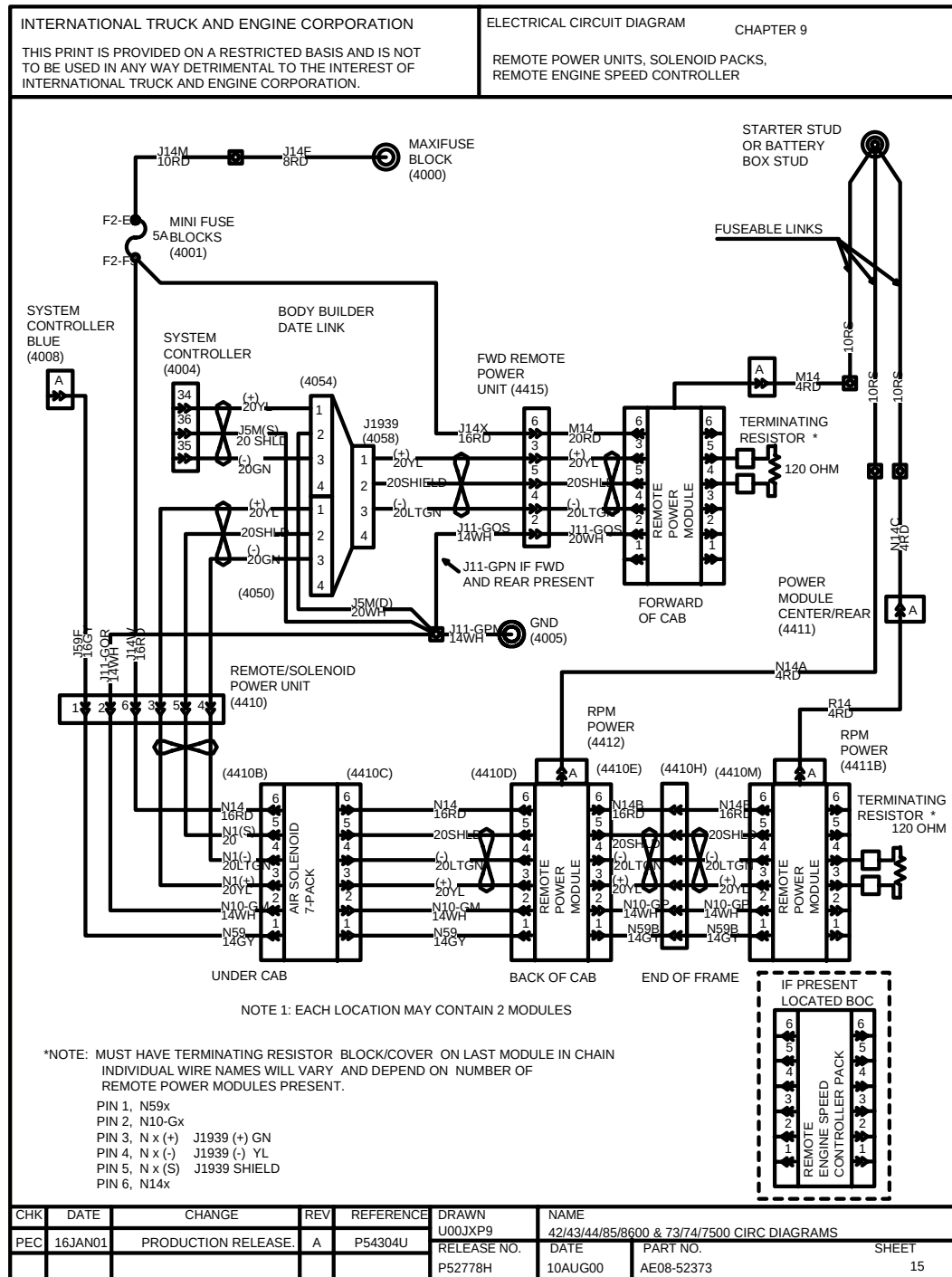


Figure 86 Remote Power Units, Solenoid Packs, Remote Engine Speed Controller

4200, 4300, 4400 SERIES Built October 16, 2000 to December 31, 2001 —
ELECTRICAL CIRCUIT DIAGRAMS

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 87 HYD Power Park

TRUCK HOUSE SAC
 Ingenieria del Transporte

9.17. AIR SUSPENSION, P. 17

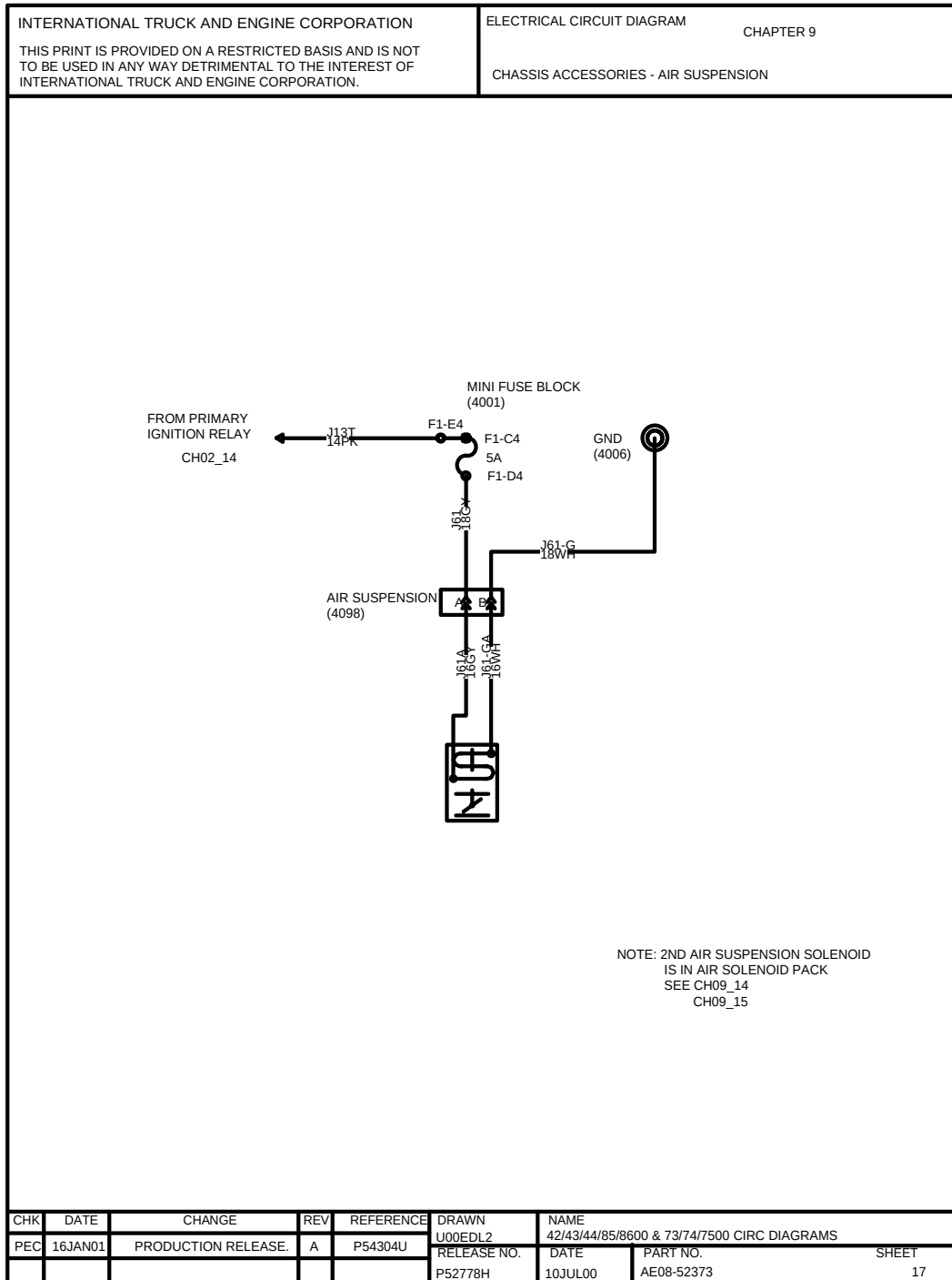


Figure 88 Air Suspension

TRUCK HOUSE SAC

Ingenieria del Transporte

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

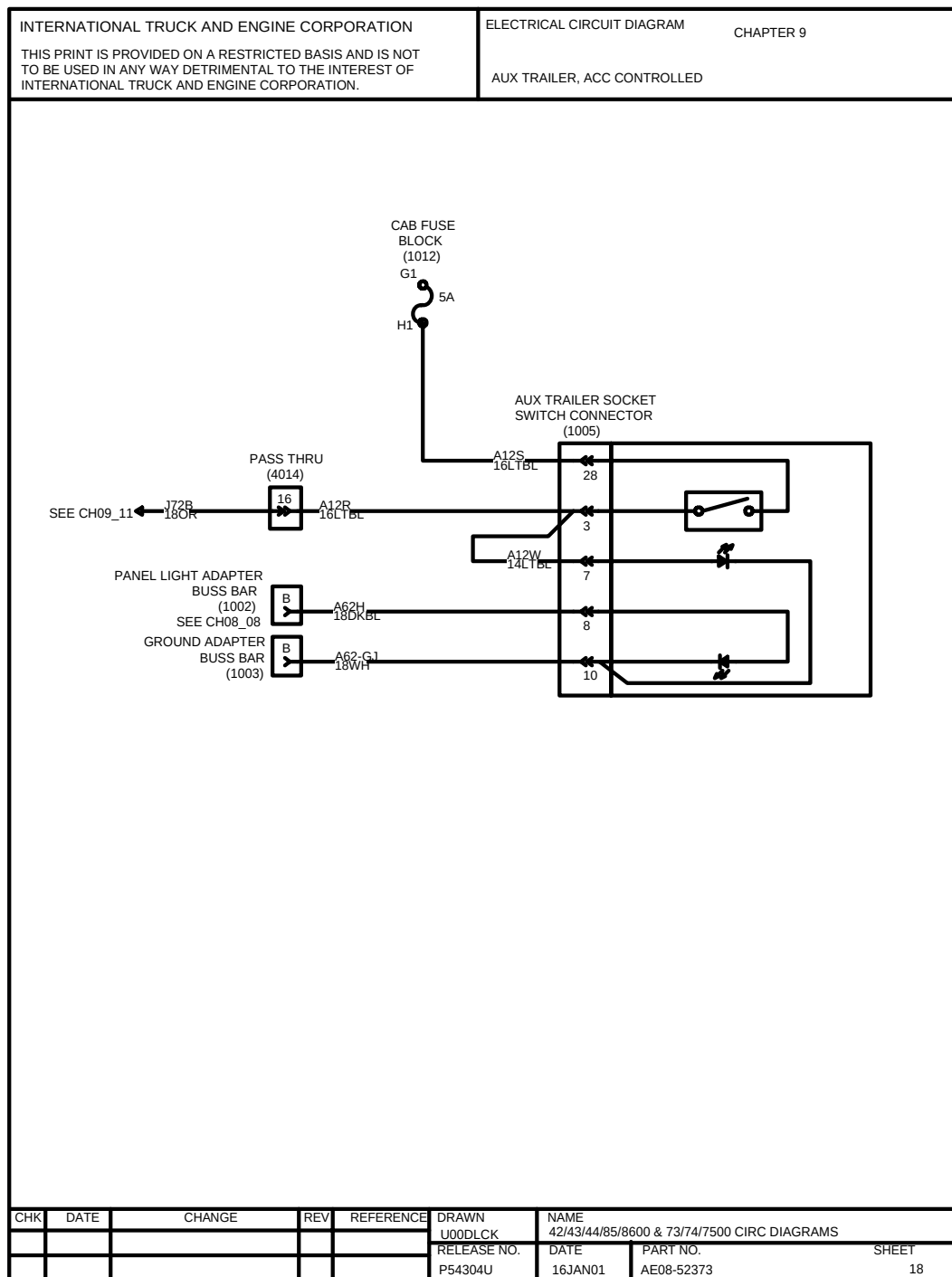


Figure 89 Aux. Trailer, Acc Controlled

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

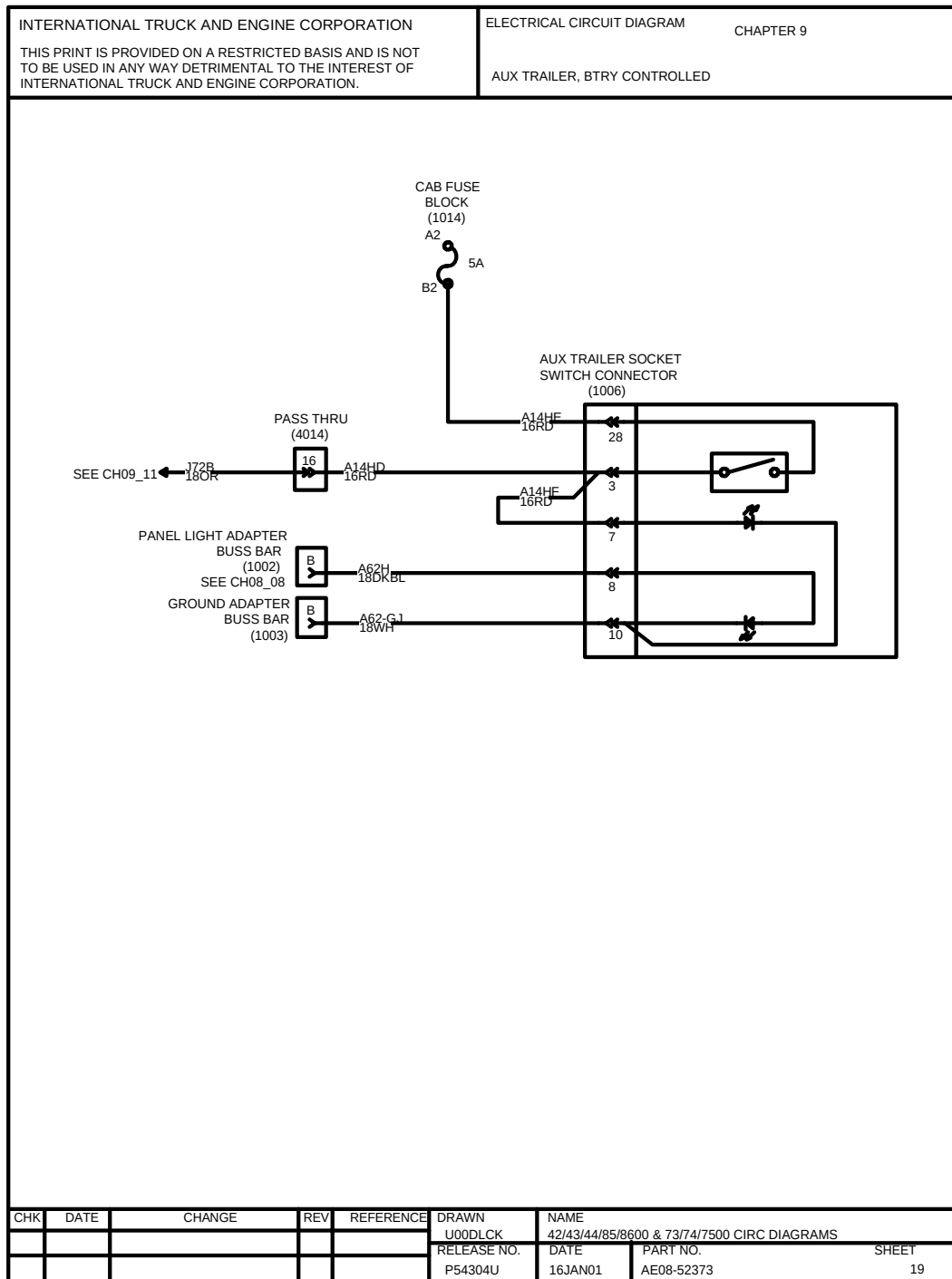


Figure 90 Aux. Trailer, Btry Controlled

**4200, 4300, 4400 SERIES Built October 16, 2000 to December 31, 2001 —
ELECTRICAL CIRCUIT DIAGRAMS**

10. TRANSMISSIONS (CHAPTER 10)

10.1. ALLISON LCT TRANSMISSION, P. 1

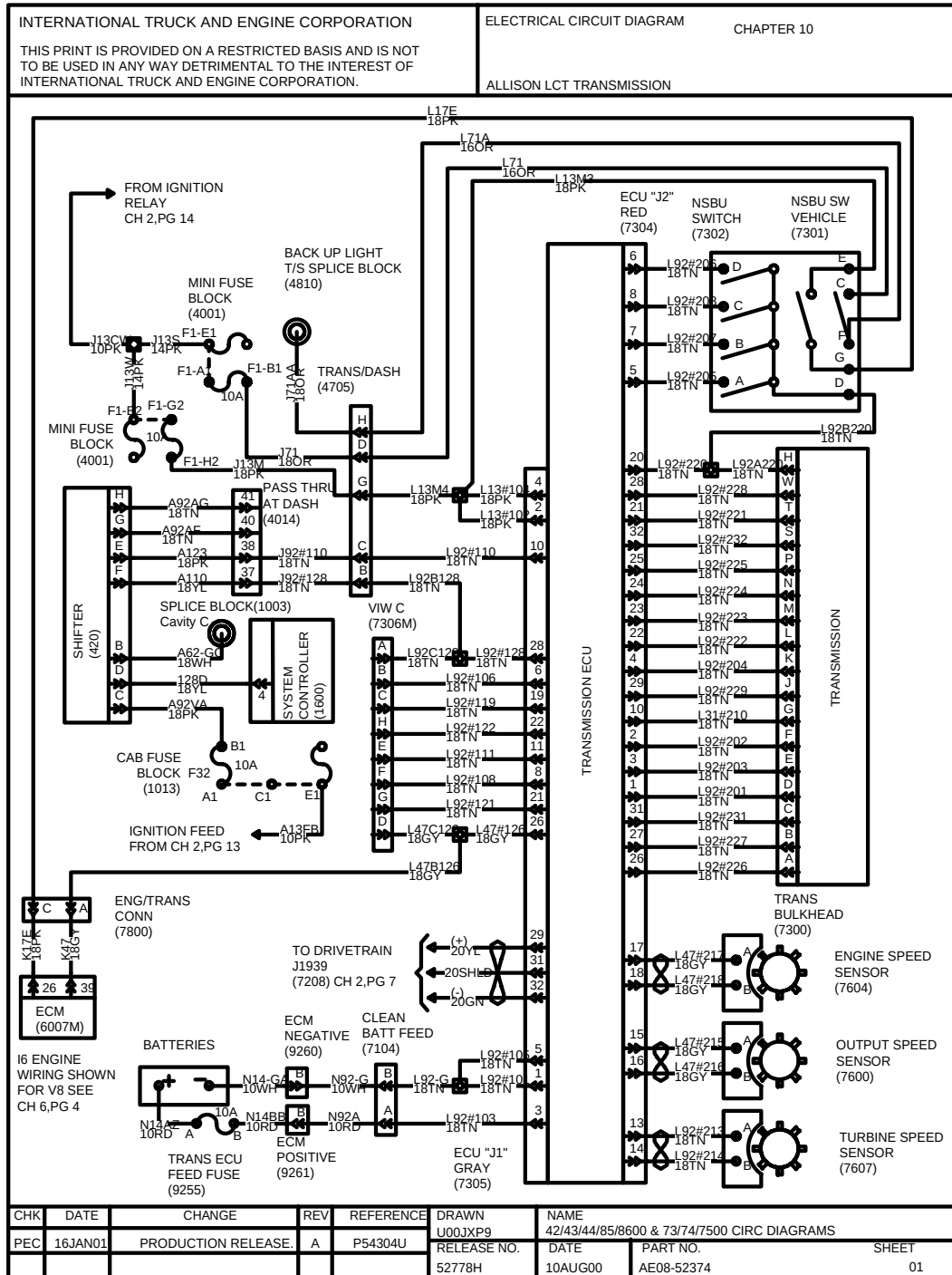


Figure 91 Allison LCT Transmission

10.2. ALLISON MD TRANSMISSION, P. 2

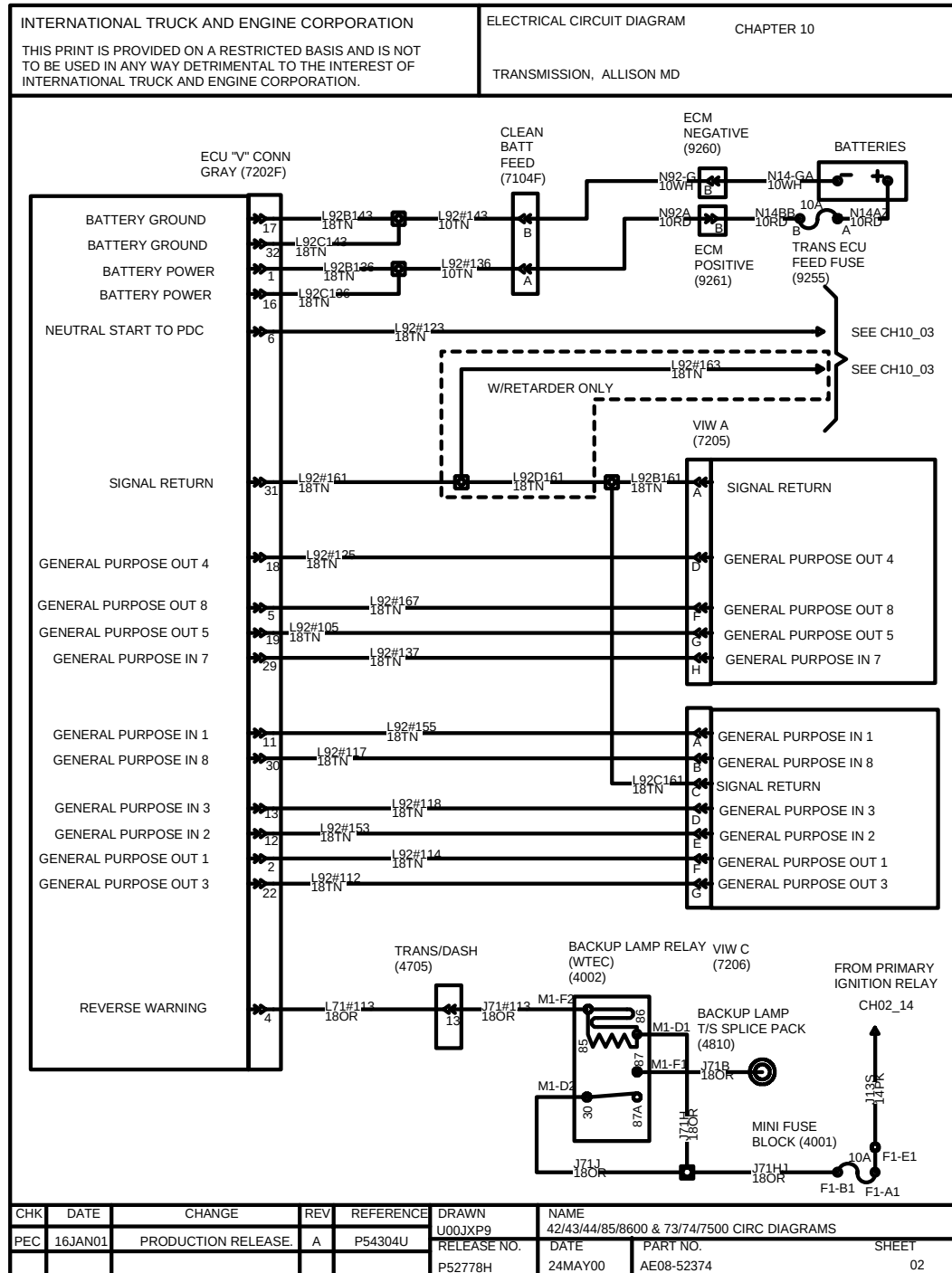


Figure 92 Allison MD Transmission

**4200, 4300, 4400 SERIES Built October 16, 2000 to December 31, 2001 —
ELECTRICAL CIRCUIT DIAGRAMS**

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

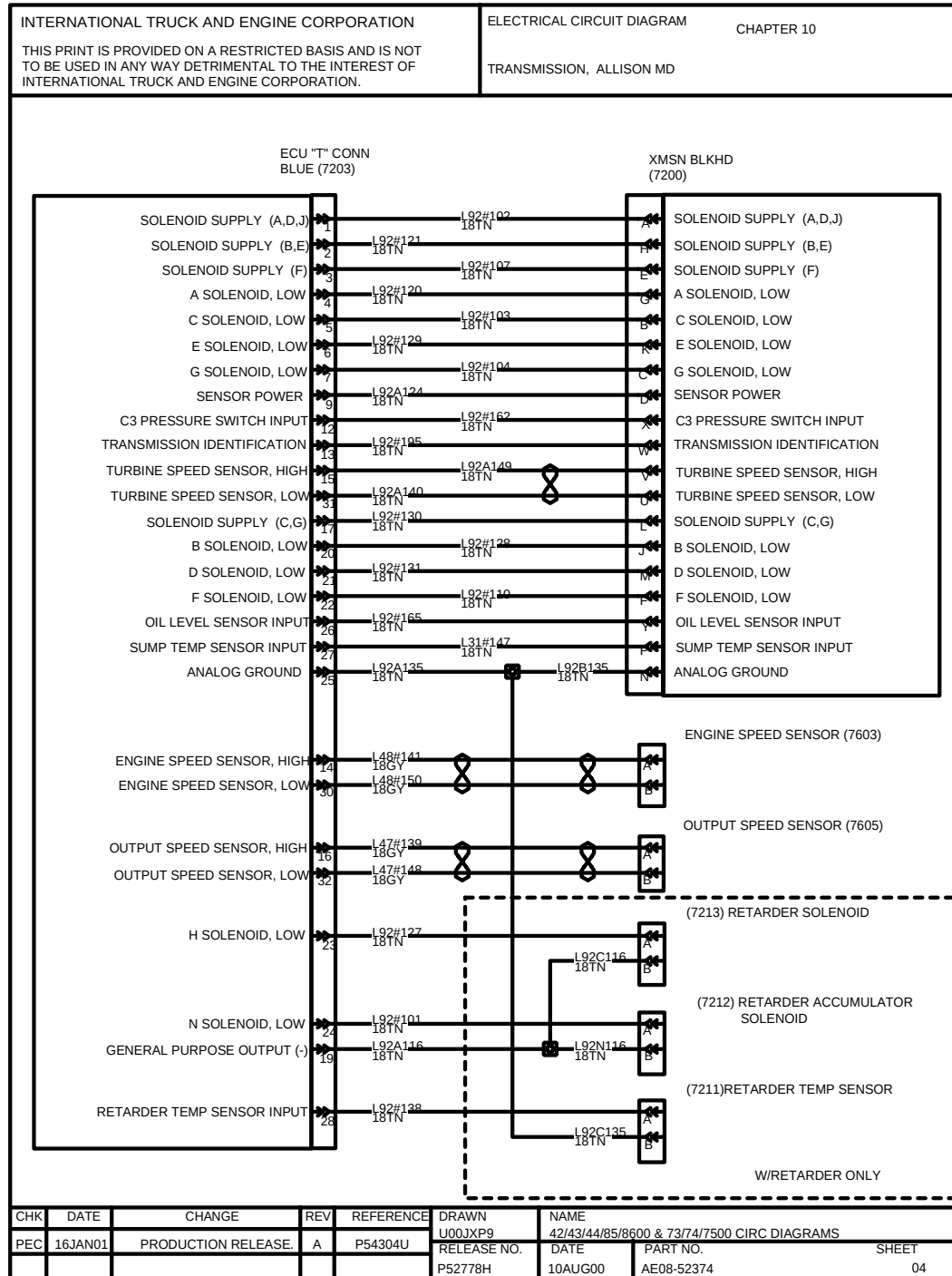


Figure 94 Allison MD Transmission (Cont.)

TRUCK HOUSE SAC

Ingenieria del Transporte

**4200, 4300, 4400 SERIES Built October 16, 2000 to December 31, 2001 —
ELECTRICAL CIRCUIT DIAGRAMS**

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

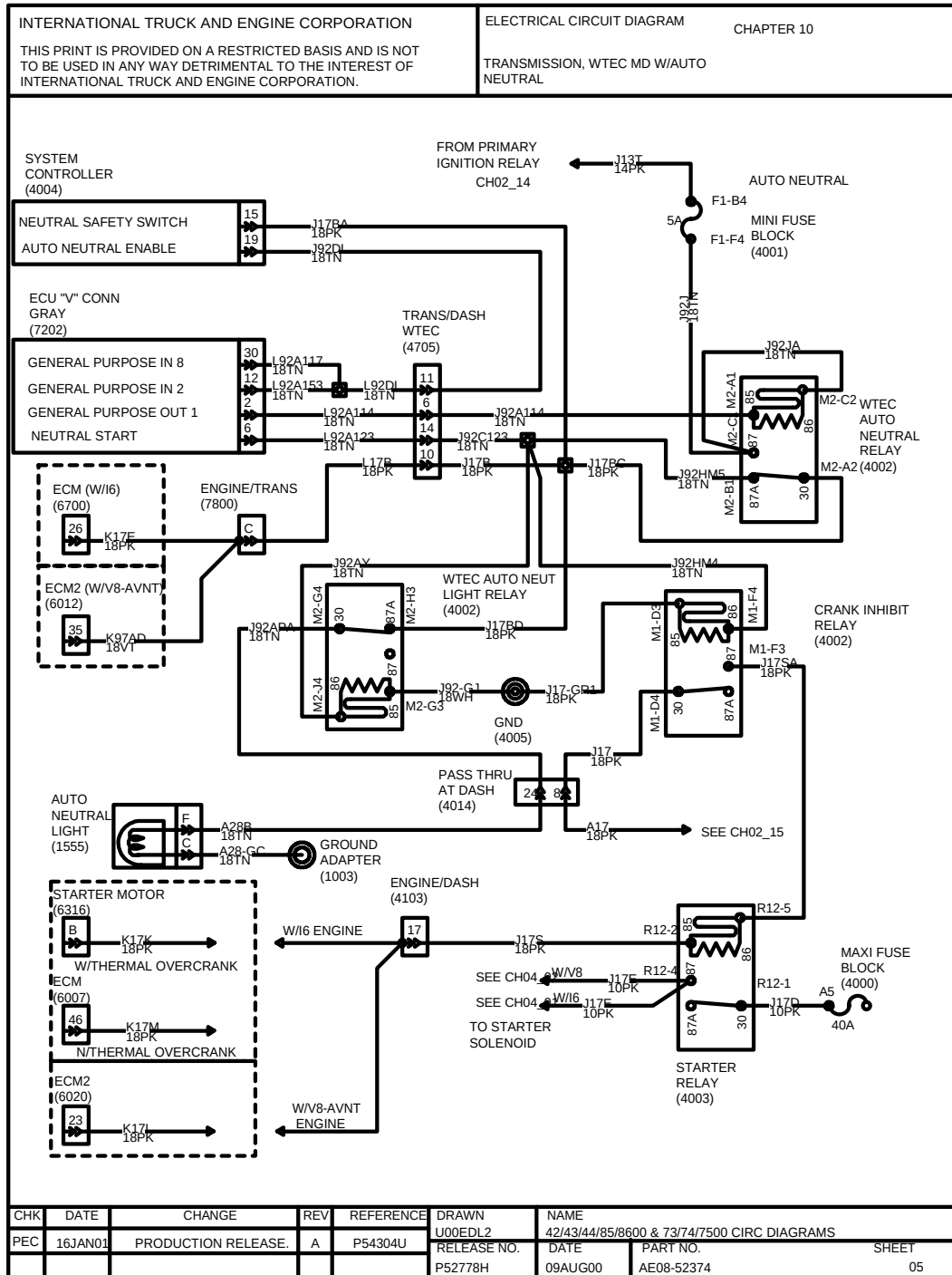


Figure 95 Transmission, WTEC MD W/Auto Neutral

10.6. EATON AUTOSHIFT TRANSMISSION, P. 6

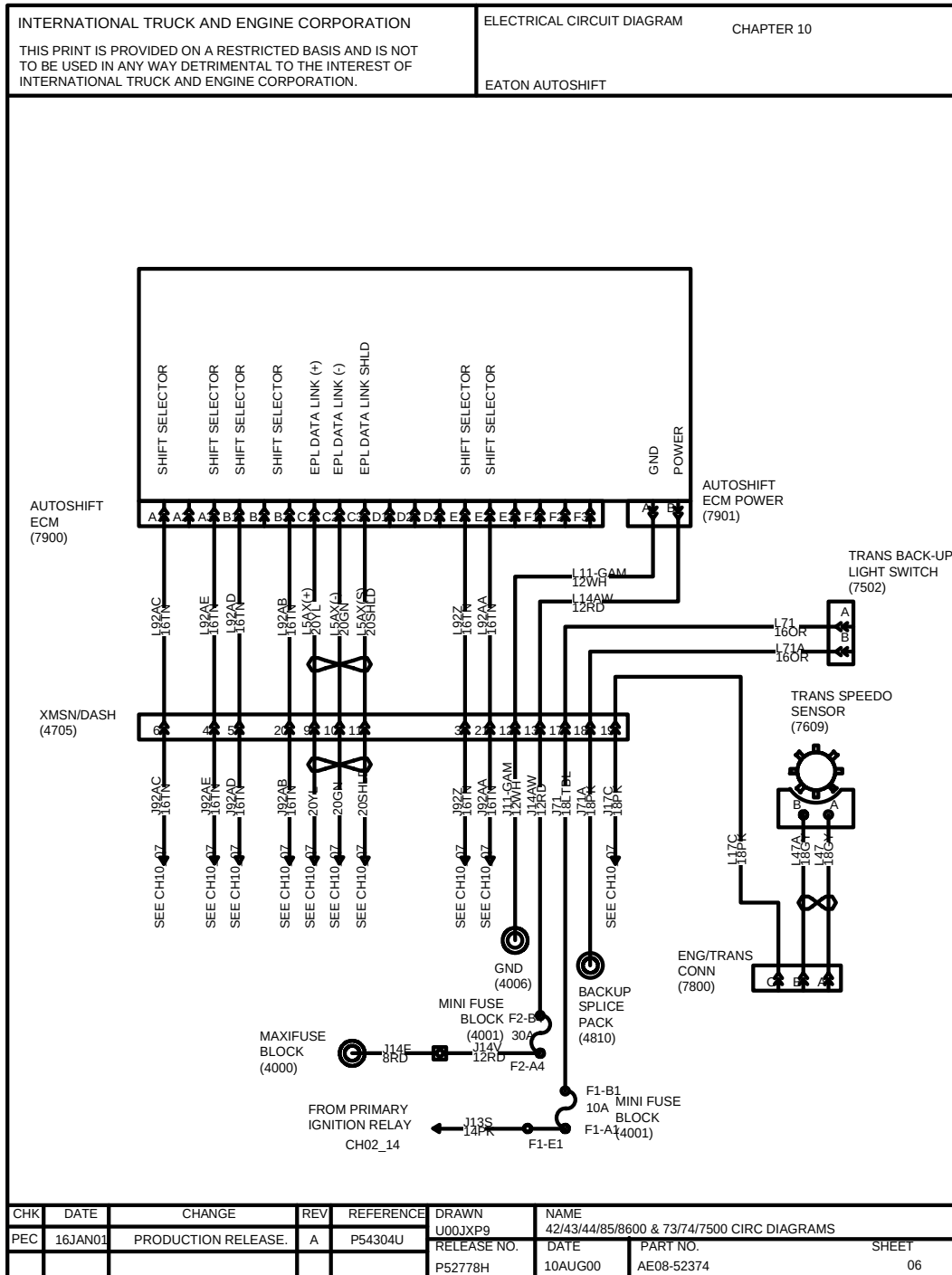


Figure 96 Eaton Autoshift Transmission

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

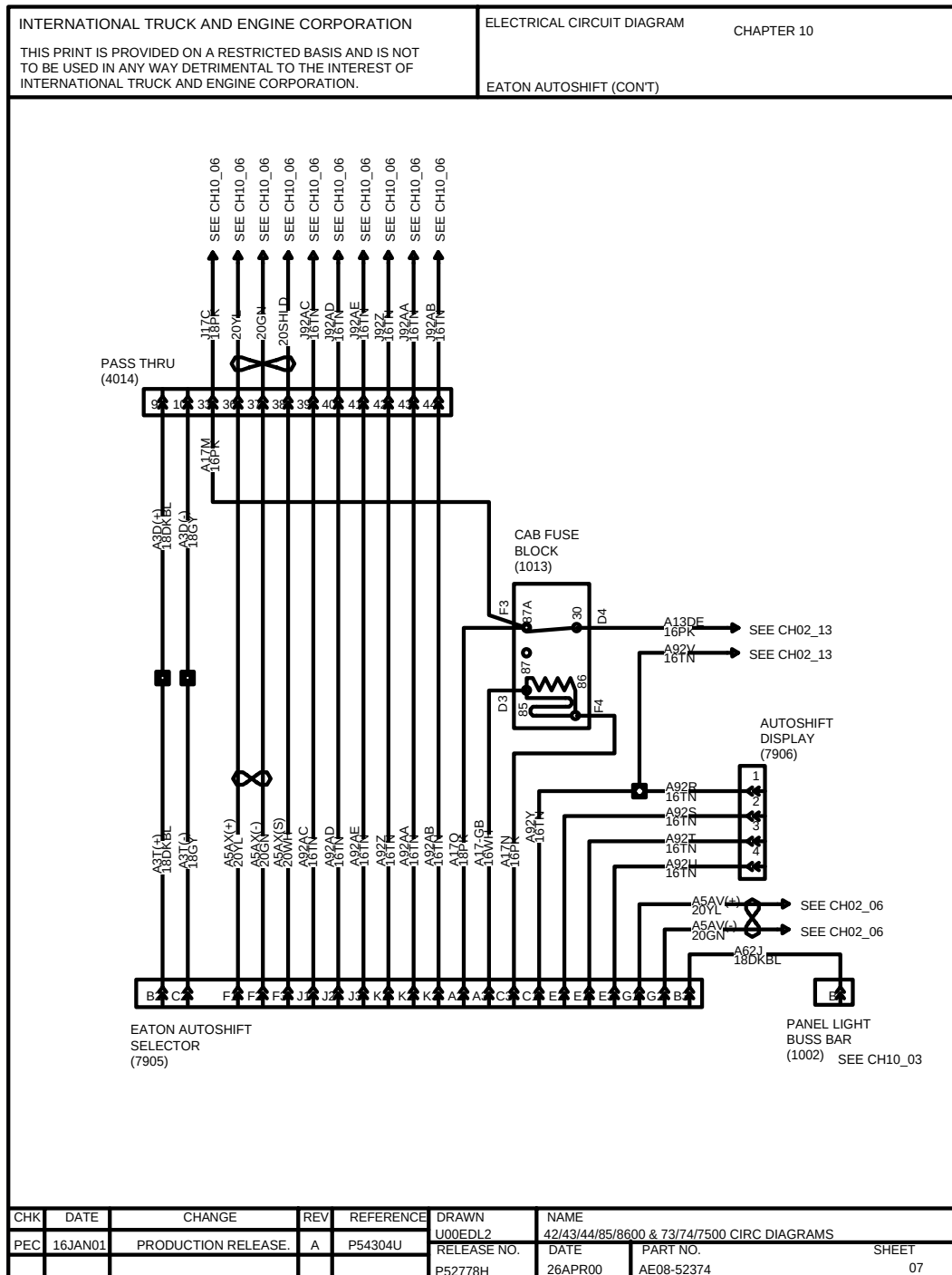


Figure 97 Eaton Autoshift Transmission (Cont.)

11. AIR CONDITIONING (CHAPTER 11)

11.1. HVAC SYSTEMS, P. 1

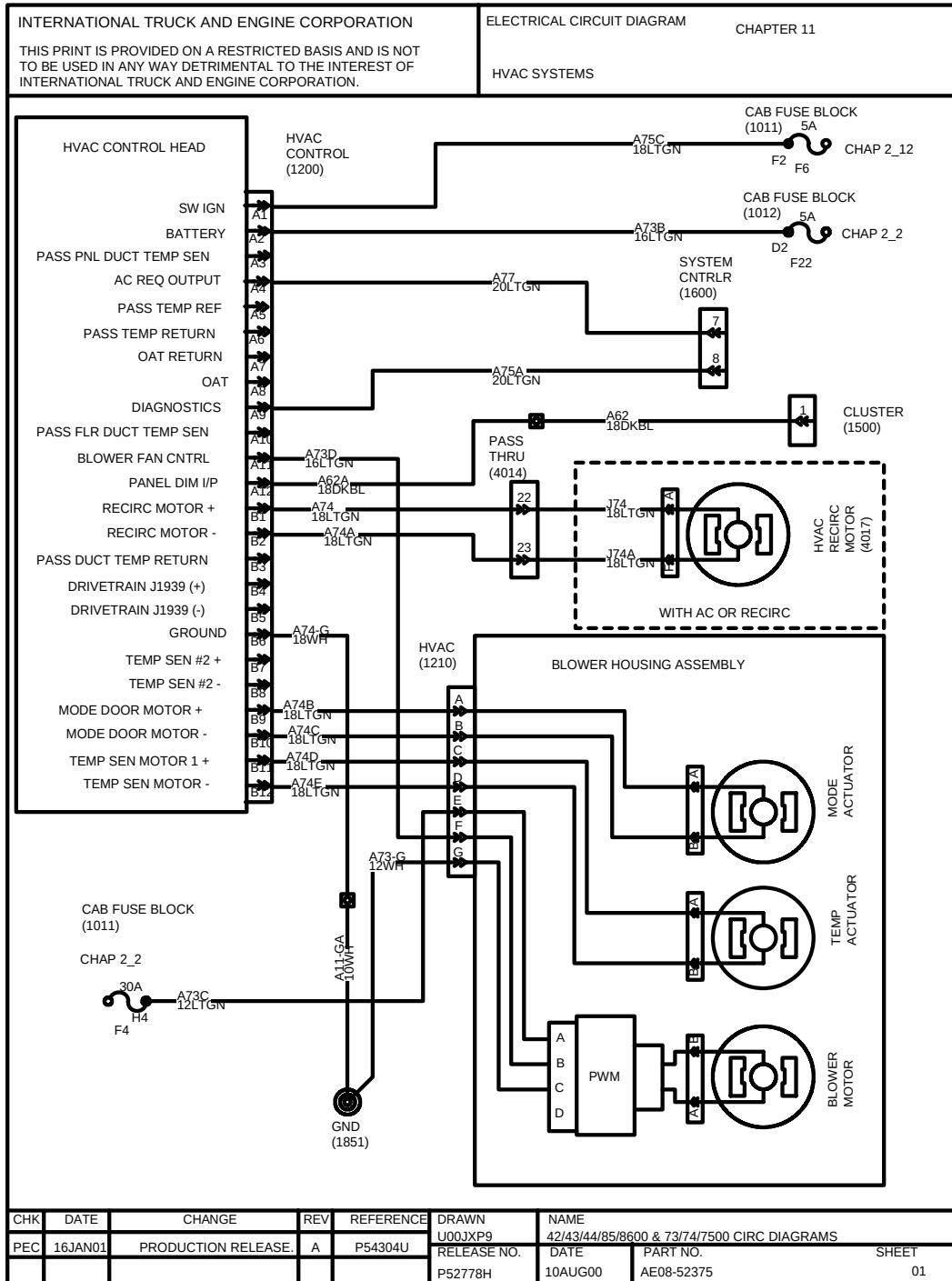


Figure 98 HVAC Systems

**4200, 4300, 4400 SERIES Built October 16, 2000 to December 31, 2001 —
ELECTRICAL CIRCUIT DIAGRAMS**

11.2. AIR CONDITIONING (ONLY), P. 2

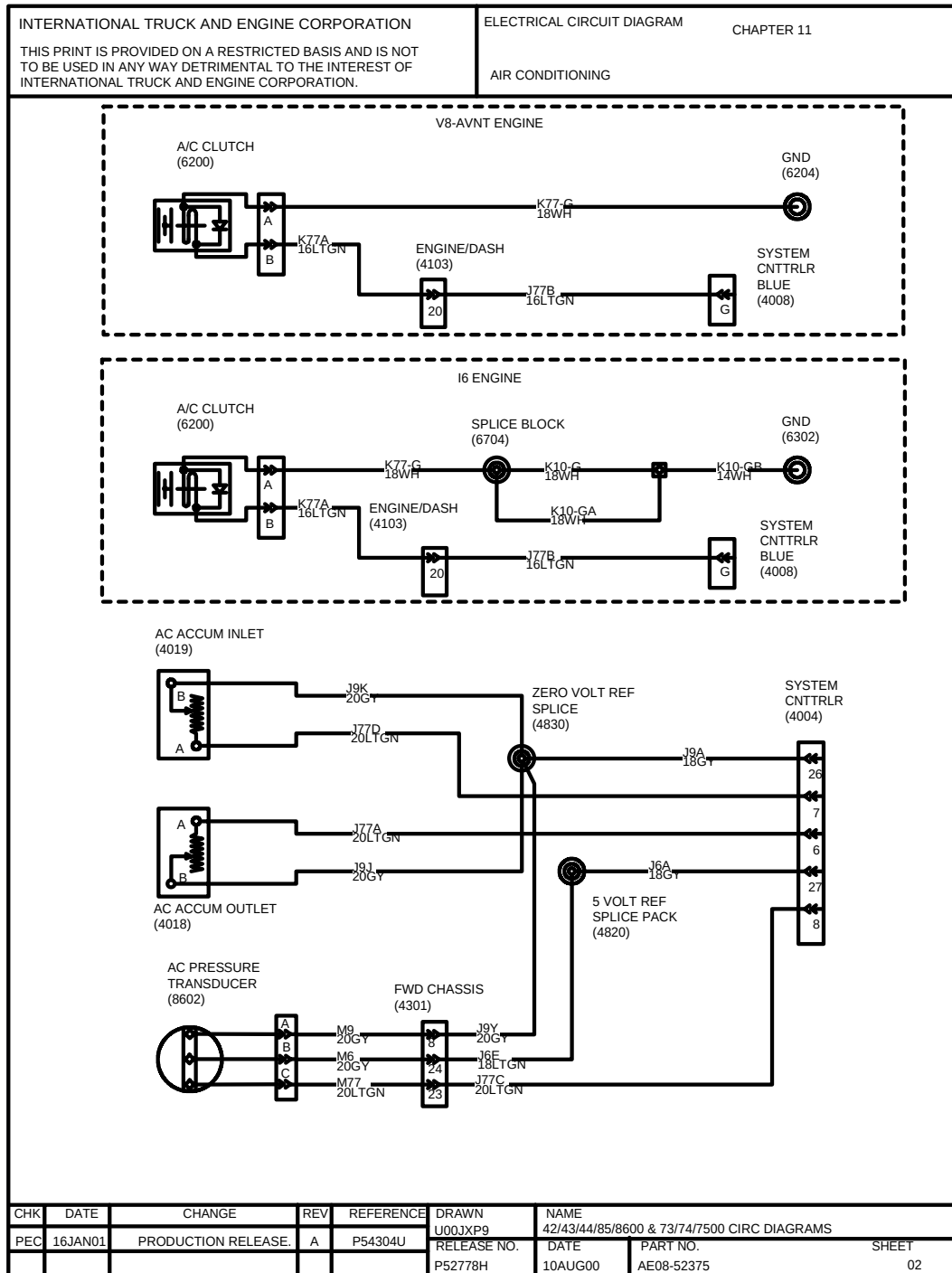


Figure 99 Air Conditioning (Only)

TRUCK HOUSE SAC

Ingenieria del Transporte