

## 7.1. IP/GAUGE LIST, P. 1

### Figure 51 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 (P)		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					
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**

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

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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)

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	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

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

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

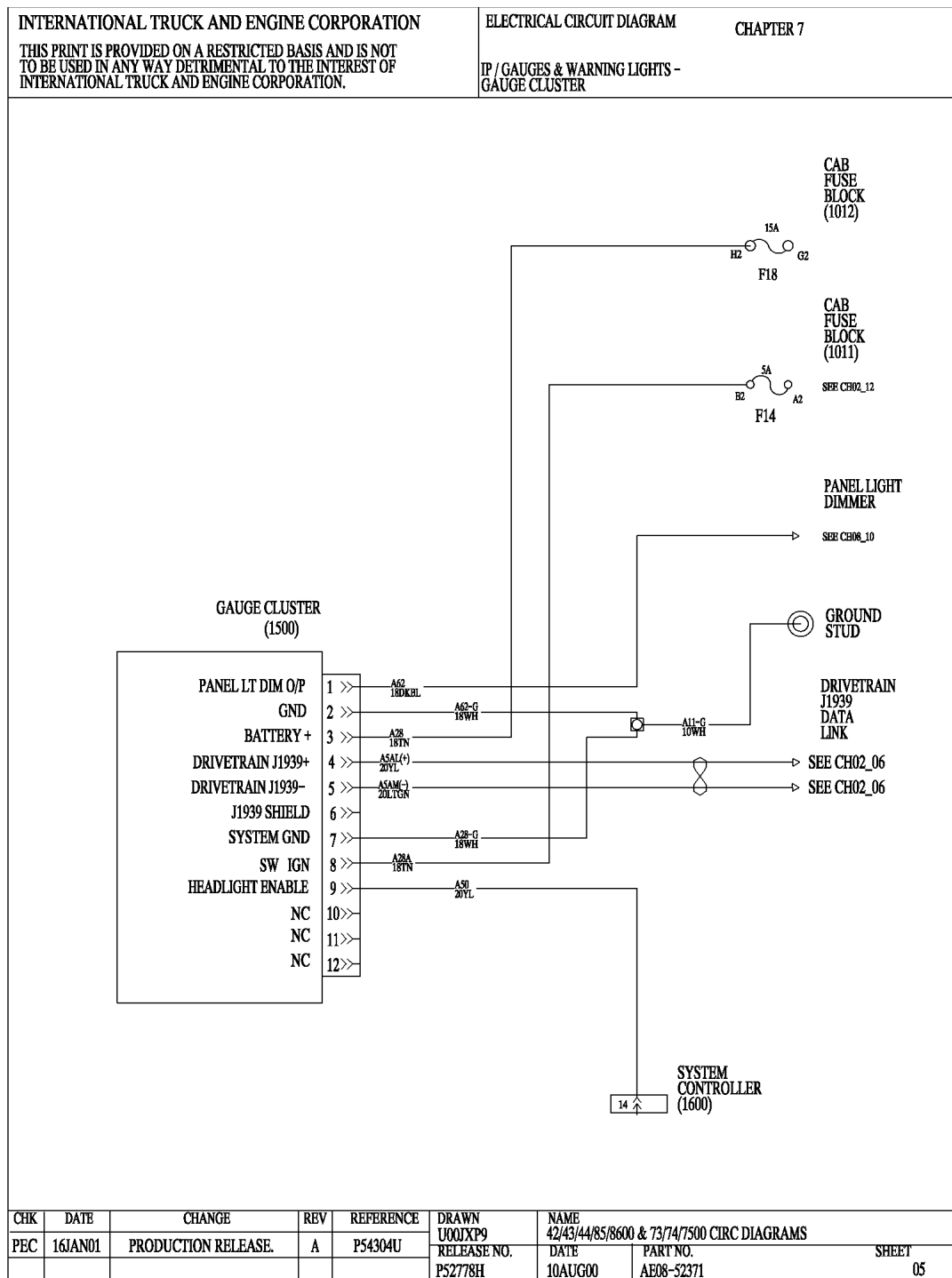


Figure 55 IP/Gauges and Warning Lights — Gauge Cluster

7.6. AIR PRESSURE INPUT CIRCUIT, P. 6

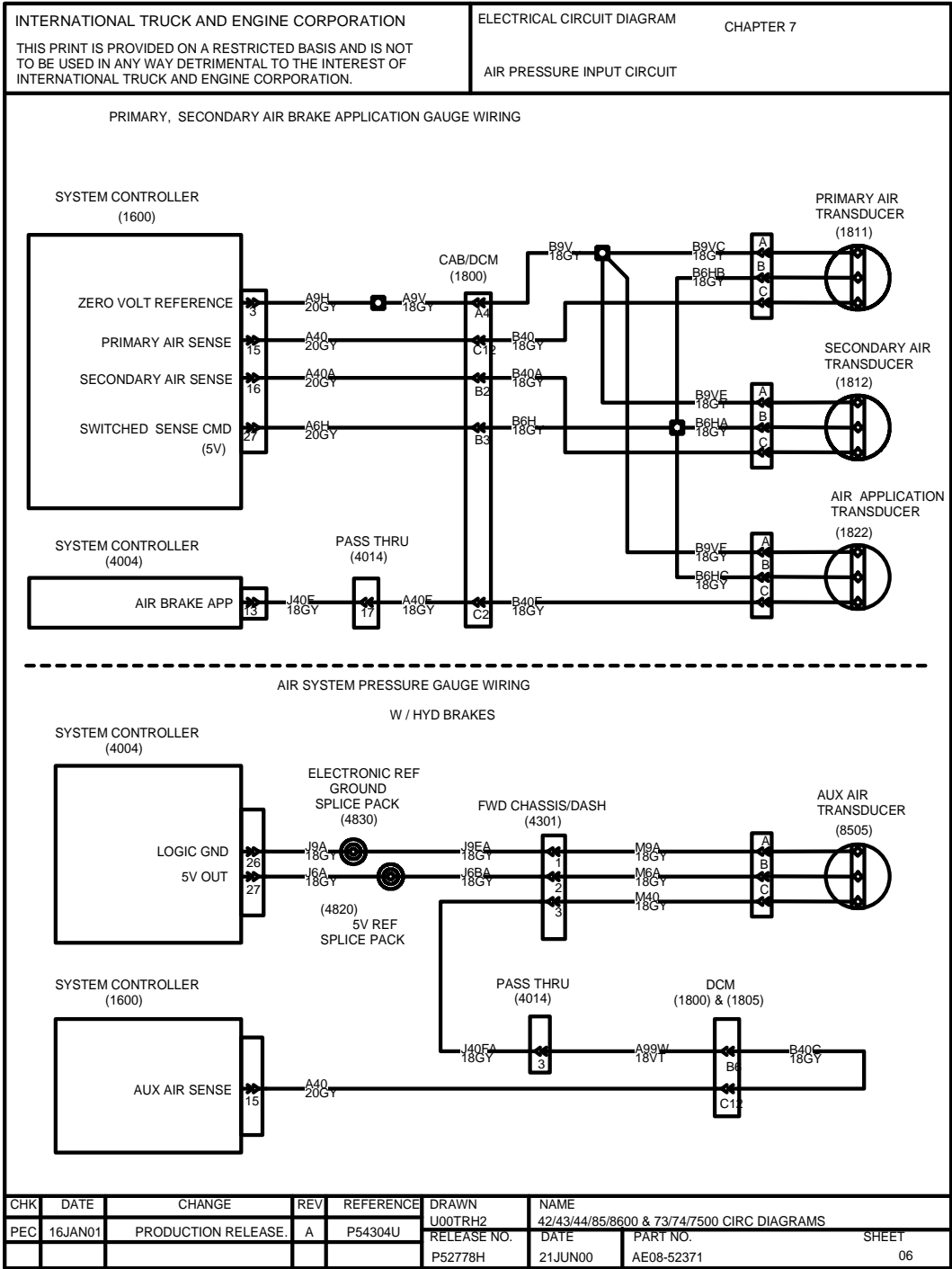


Figure 56 Air Pressure Input Circuit

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

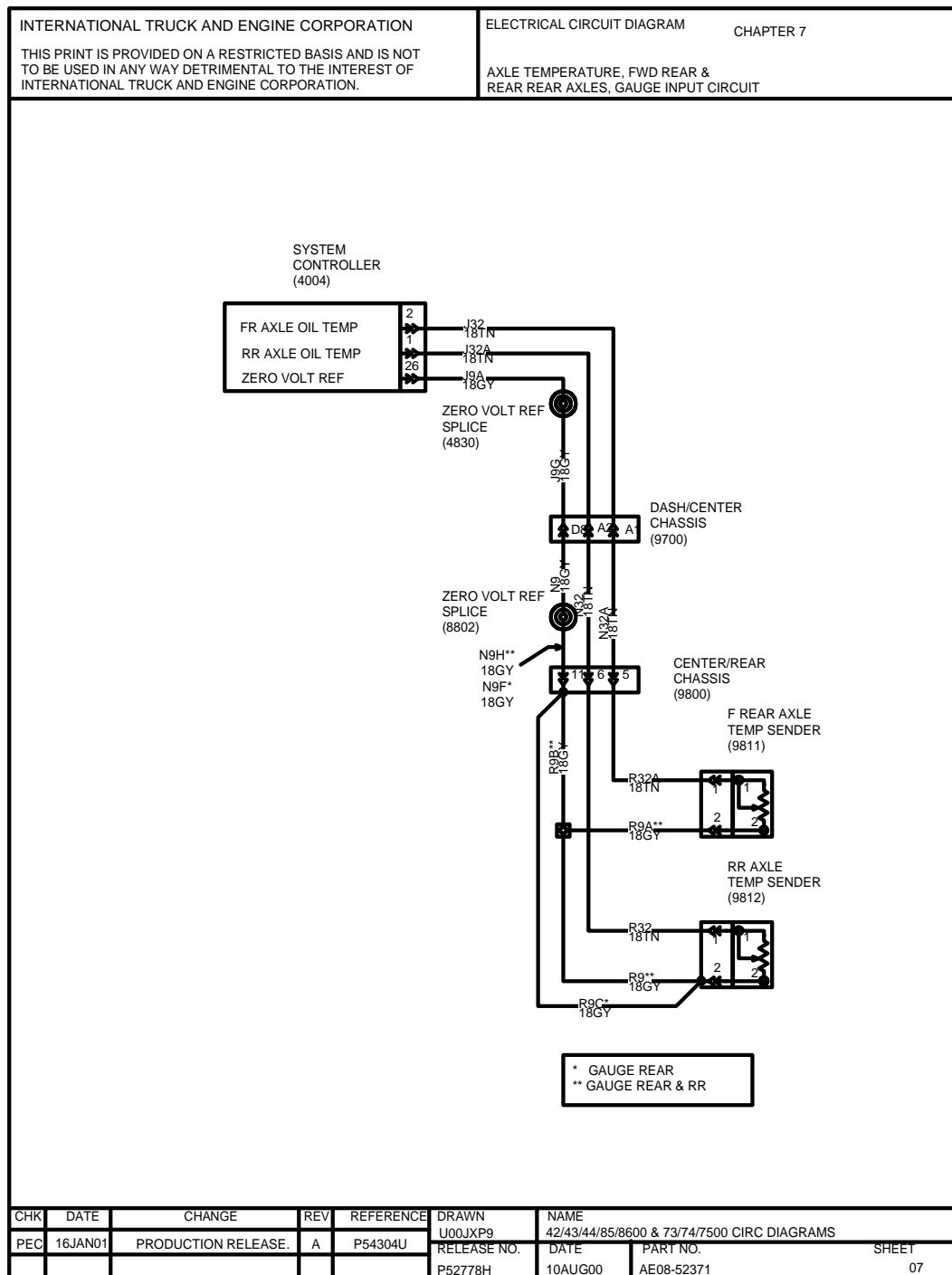


Figure 57 Axle Temperature, FWD Rear and Rear Axles, Gauge Input Circuit

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

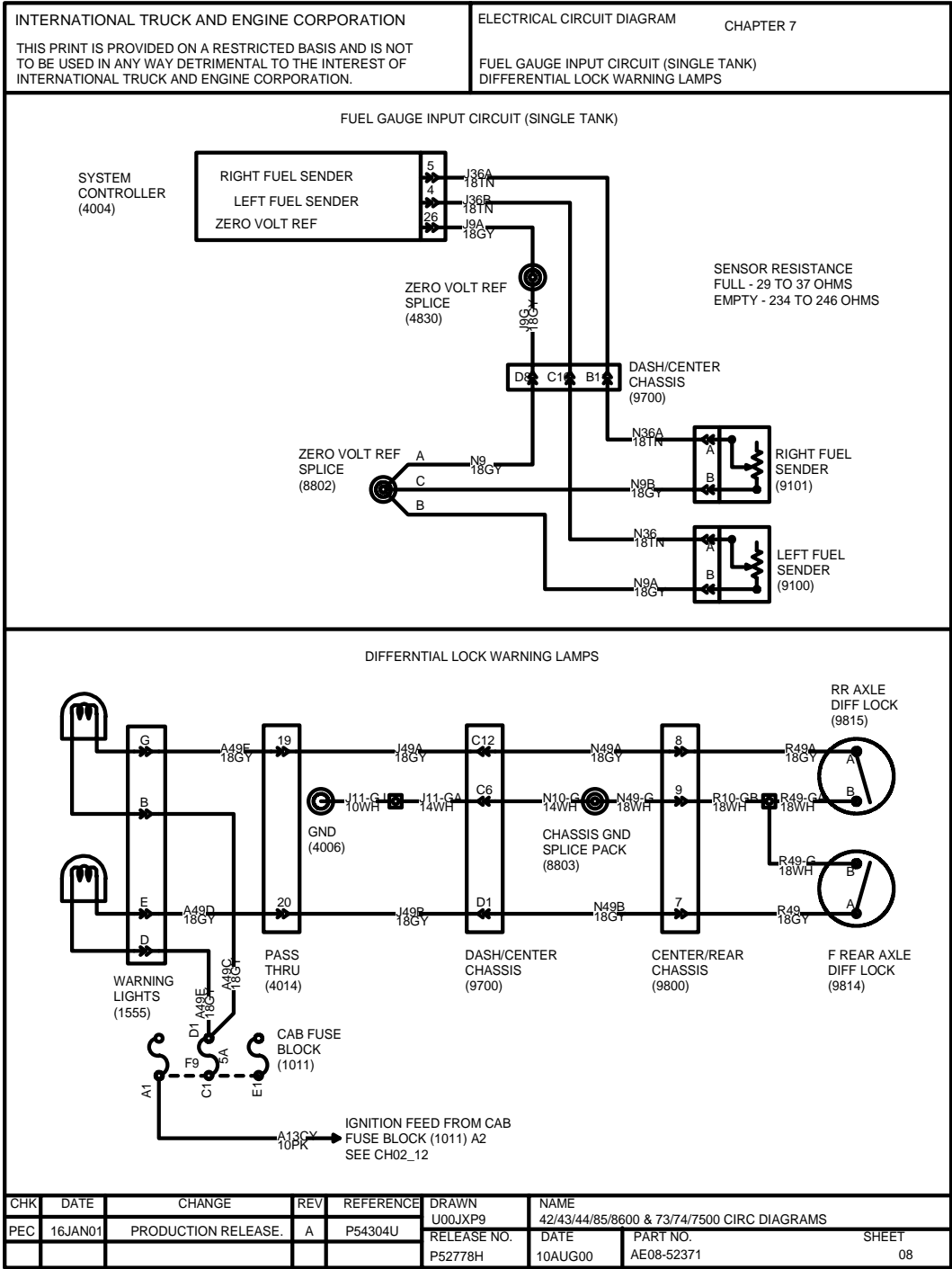


Figure 58 Fuel Gauge Input Circuit (Single Tank) Differential Lock Warning Lamps



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**ELECTRICAL CIRCUIT DIAGRAM** CHAPTER 7

**GAUGES & WARNING LIGHTS**

**FUEL FILTER RESTRICTION-WATER IN FUEL LIGHTS**

**MAXIFUSE BLOCK (4000)**  
**IGNITION SPLICE (4840)**  
**MINI FUSE BLOCK (4001)**  
**FUEL HEATER RELAY (4002)**  
**SYSTEM CONTROLLER (1600)**  
**WIF MODULE (4040)**  
**ENGINE/DASH (4103)**  
**FUEL FILTER (6708)**  
**FUEL HEATER (4042)**  
**WATER PROBE (4043)**  
**AUX FWD CHASSIS CONN (4305)**  
**FRAME MOUNTED**

**WIRING DETAILS:**  
 - MAXIFUSE BLOCK (4000) to MINI FUSE BLOCK (4001) via J14E (8RD).  
 - MINI FUSE BLOCK (4001) to FUEL HEATER RELAY (4002) via J14M (10RD) and F2-E3.  
 - IGNITION SPLICE (4840) to FUEL HEATER RELAY (4002) via J13AS (18PK) and M1-J.  
 - FUEL HEATER RELAY (4002) to SYSTEM CONTROLLER (1600) via J19A (16GY) and M1-G3.  
 - SYSTEM CONTROLLER (1600) to WIF MODULE (4040) via J19B (18GY) and M1-G4.  
 - WIF MODULE (4040) to ENGINE/DASH (4103) via J19C (18GY) and M1-H.  
 - ENGINE/DASH (4103) to FUEL FILTER (6708) via K19B (18GY) and K19C (18GY).  
 - FUEL FILTER (6708) to FUEL HEATER (4042) via K19B (18GY) and K19C (18GY).  
 - FUEL HEATER (4042) to AUX FWD CHASSIS CONN (4305) via M19A (18GY) and M19C (18GY).  
 - AUX FWD CHASSIS CONN (4305) to FRAME MOUNTED WATER PROBE (4043) via M19A (18GY) and M19C (18GY).  
 - GND (4006) to FUEL HEATER RELAY (4002) via J19-G (18WH).  
 - GND (4006) to WIF MODULE (4040) via J19F (16GY).  
 - GND (4006) to FUEL HEATER (4042) via M19A (18GY) and M19C (18GY).  
 - GND (4006) to WATER PROBE (4043) via M19A (18GY) and M19C (18GY).

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
PEC	16JAN01	PRODUCTION RELEASE.	A	P54304U	U00DAG9	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS
					RELEASE NO.	DATE
					P52778H	22JUN00
						PART NO.
						AE08-52371
						SHEET
						09

**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

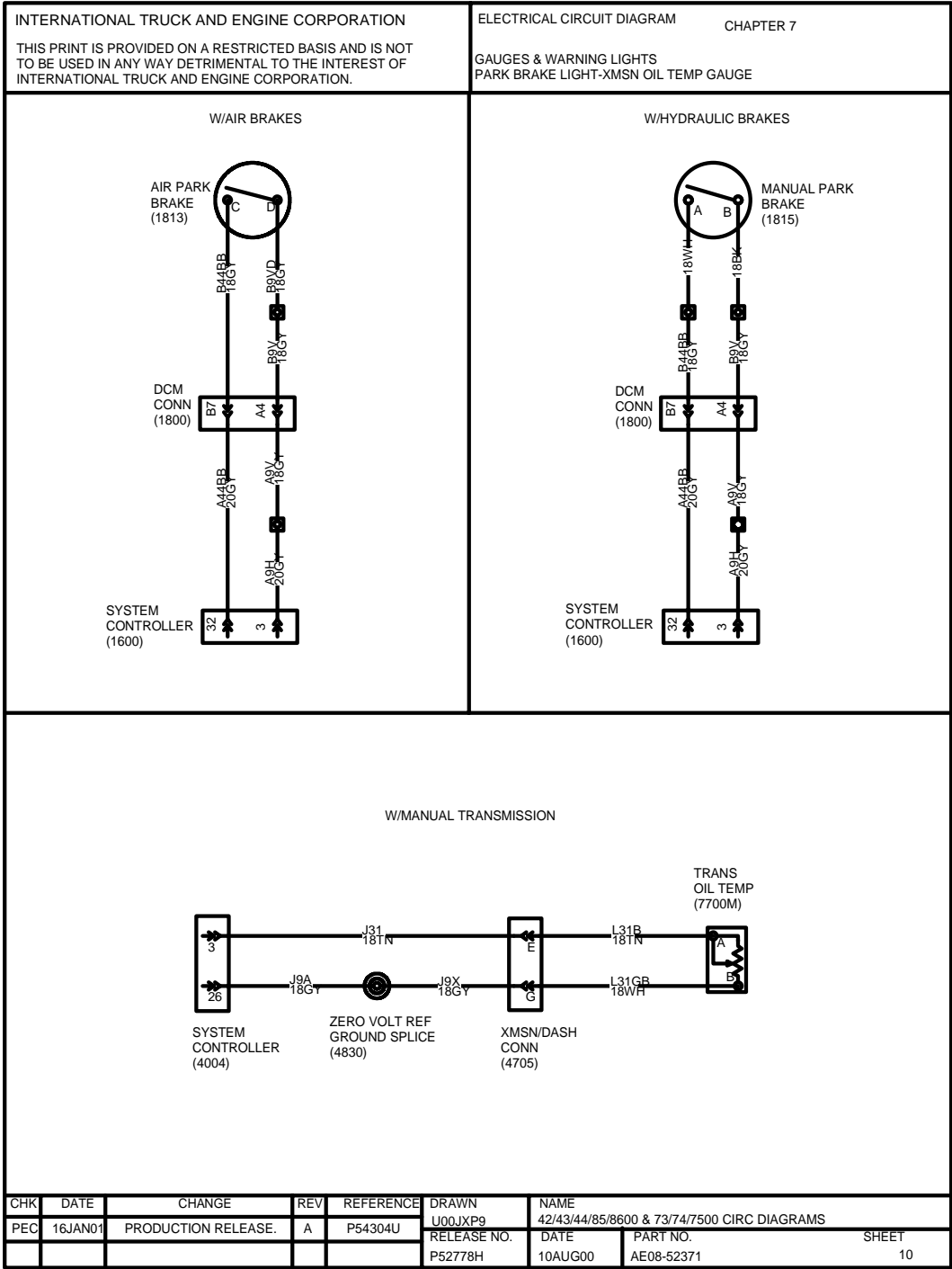


Figure 60 Gauges and Warning Lights — Park Brake Light and Transmission Oil Temp. Gauge

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

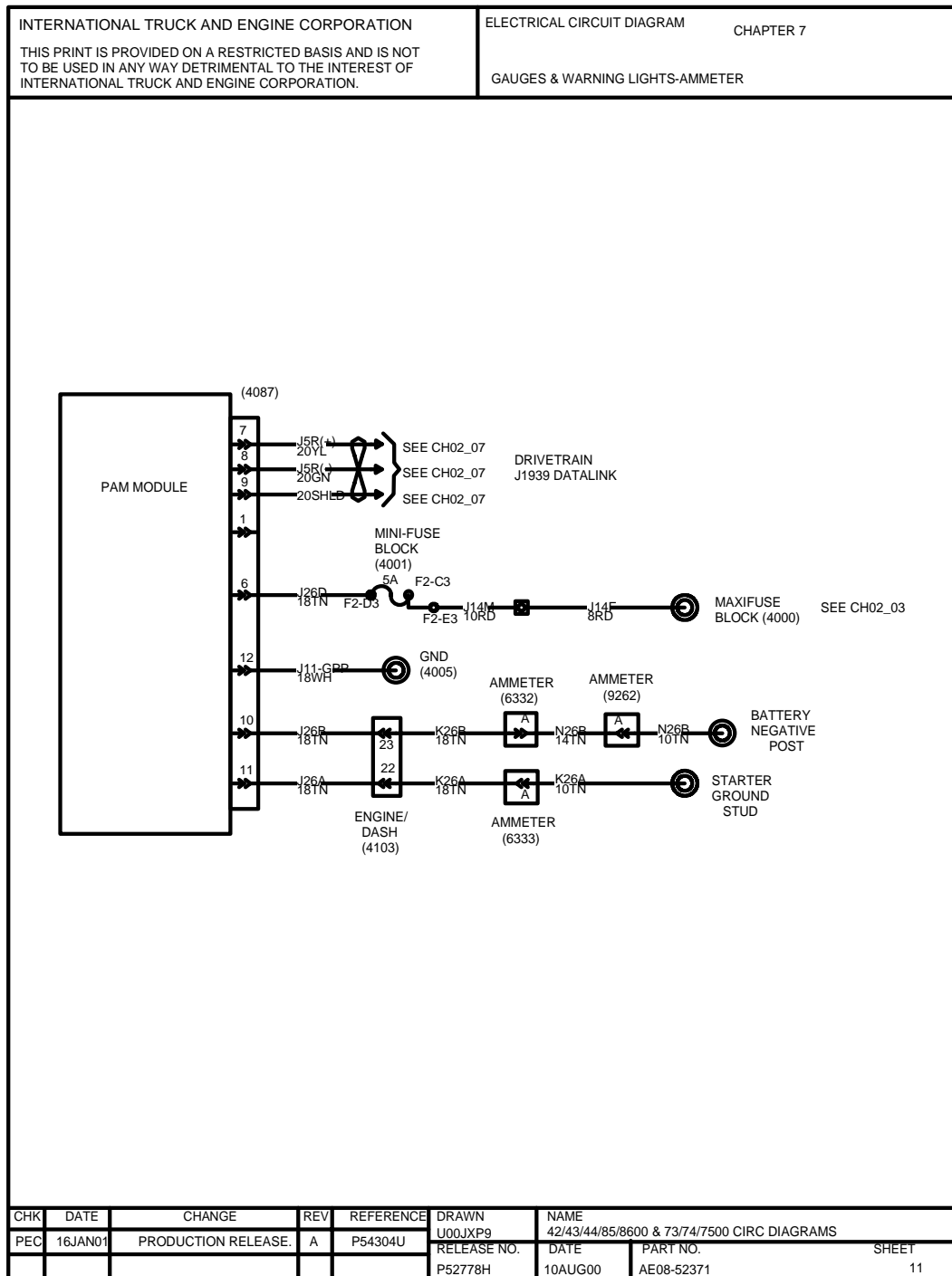


Figure 61 Gauges and Warning Lights — Ammeter

8. LIGHTS (CHAPTER 8)

8.1. BACK UP LIGHTS, P. 1

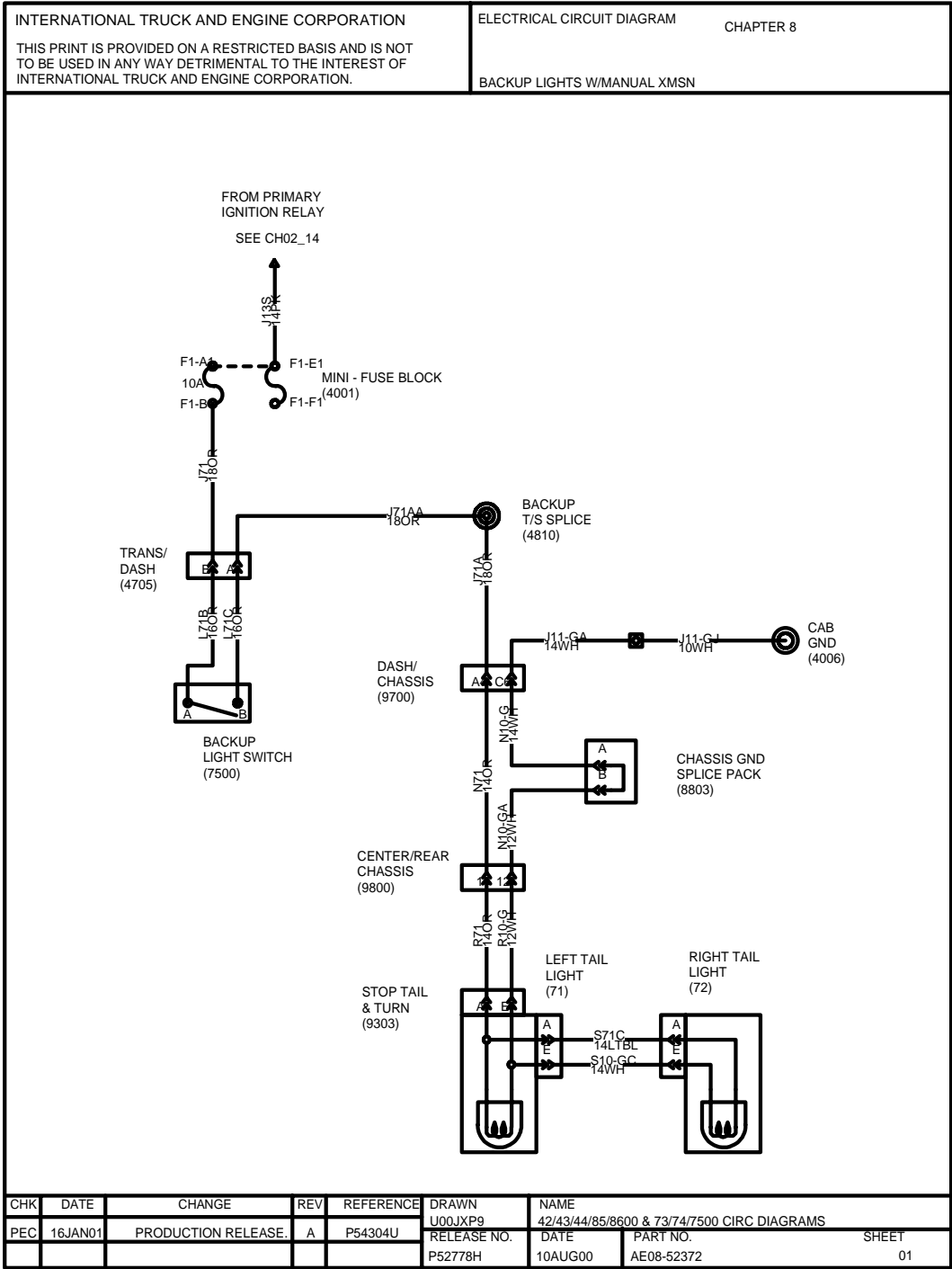


Figure 62 Back Up Lights

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

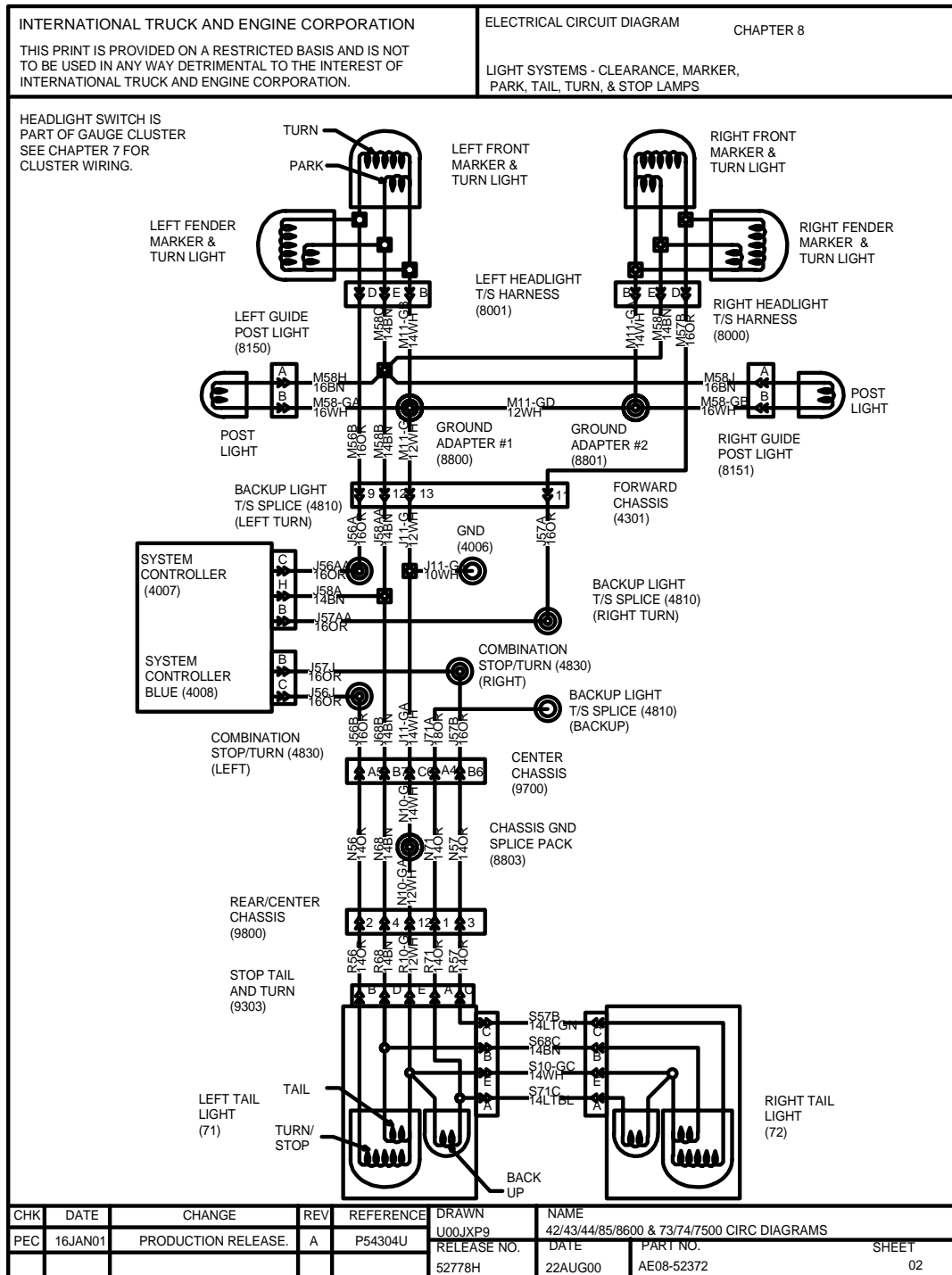


Figure 63 Light Systems — Clearance, Marker, Park, Tail, Turn and Stop Lamps

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

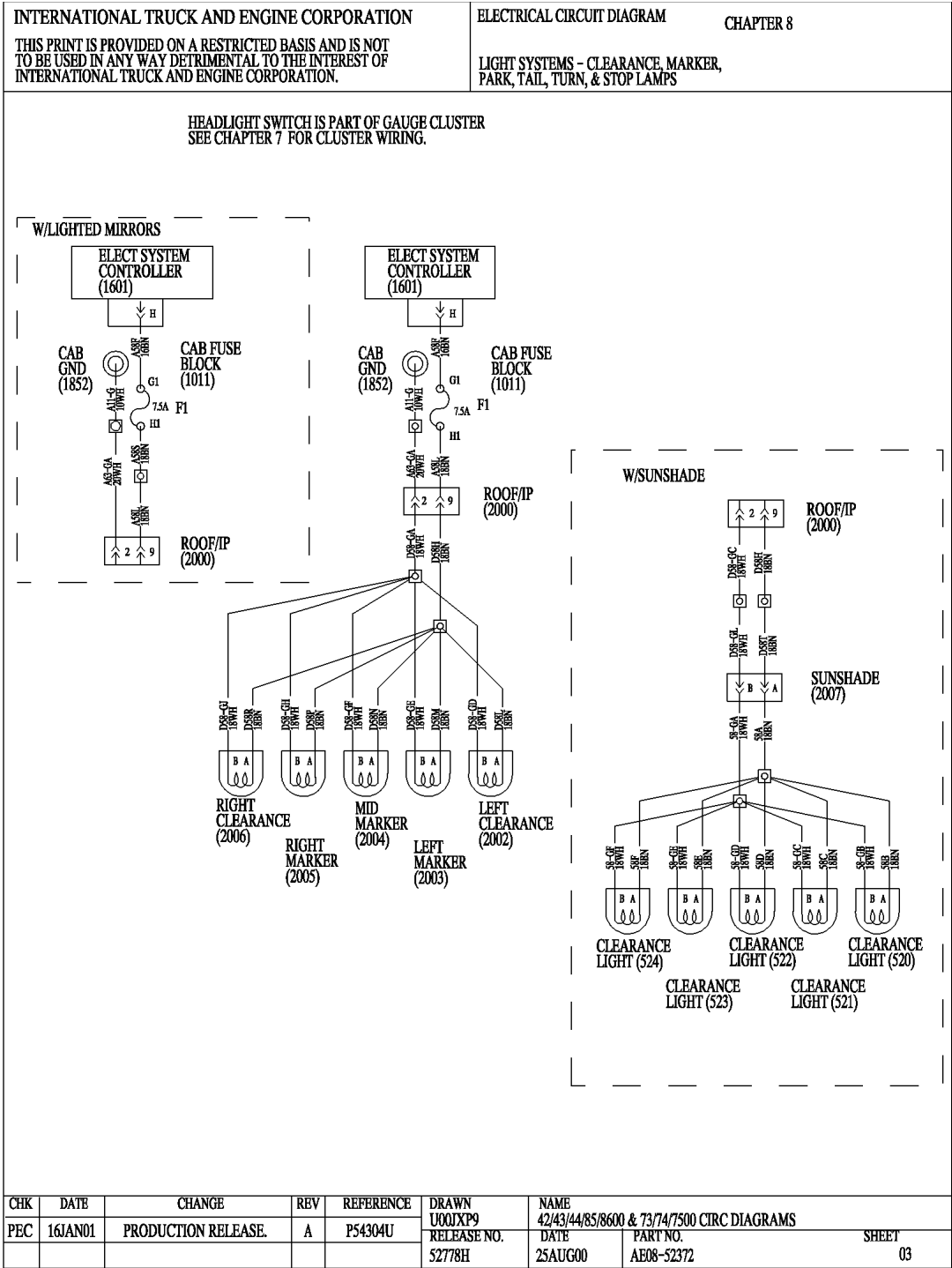


Figure 64 Light Systems — Clearance, Marker, Park, Tail, Turn and Stop Lamps (Cont.)

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

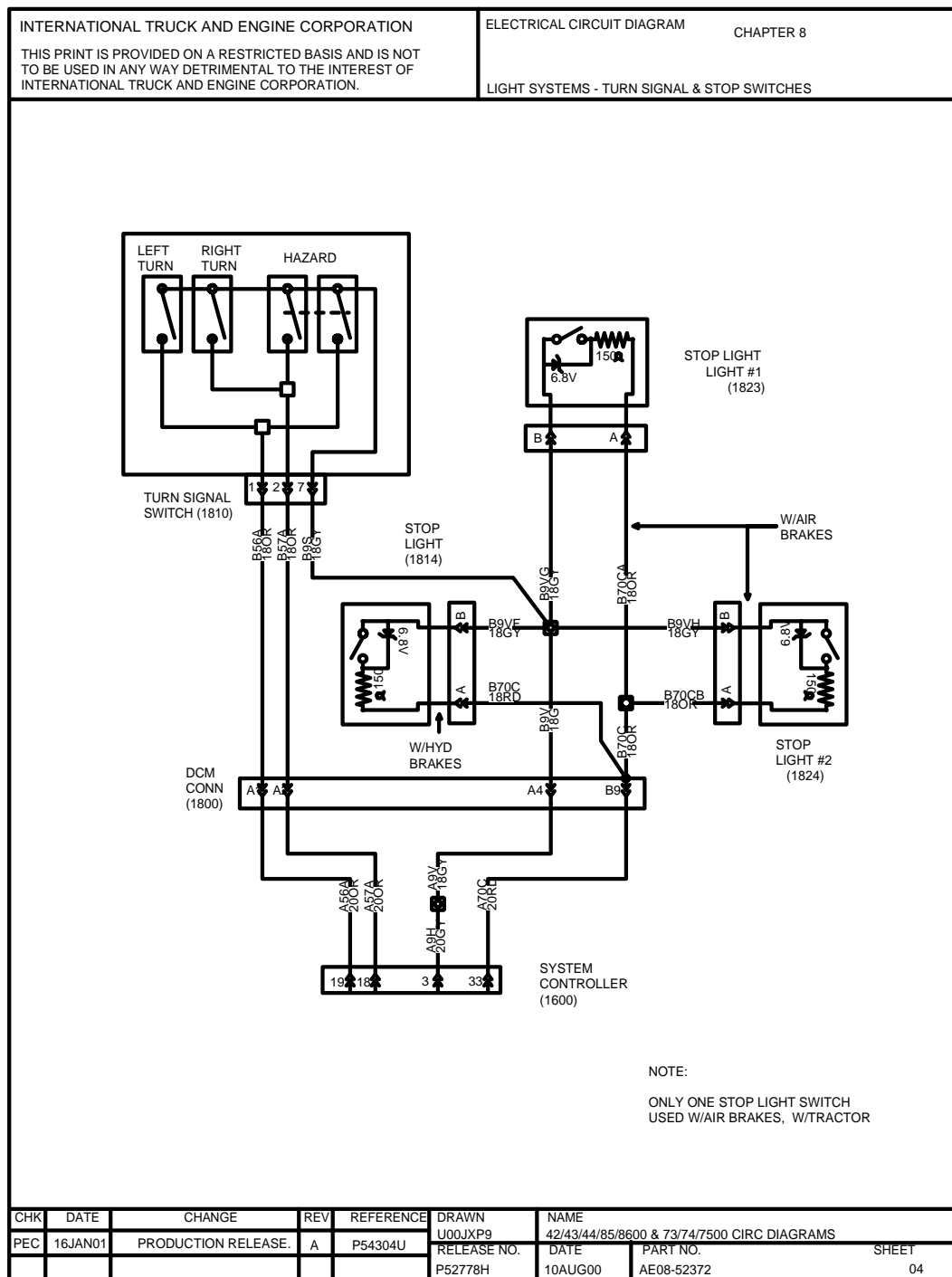
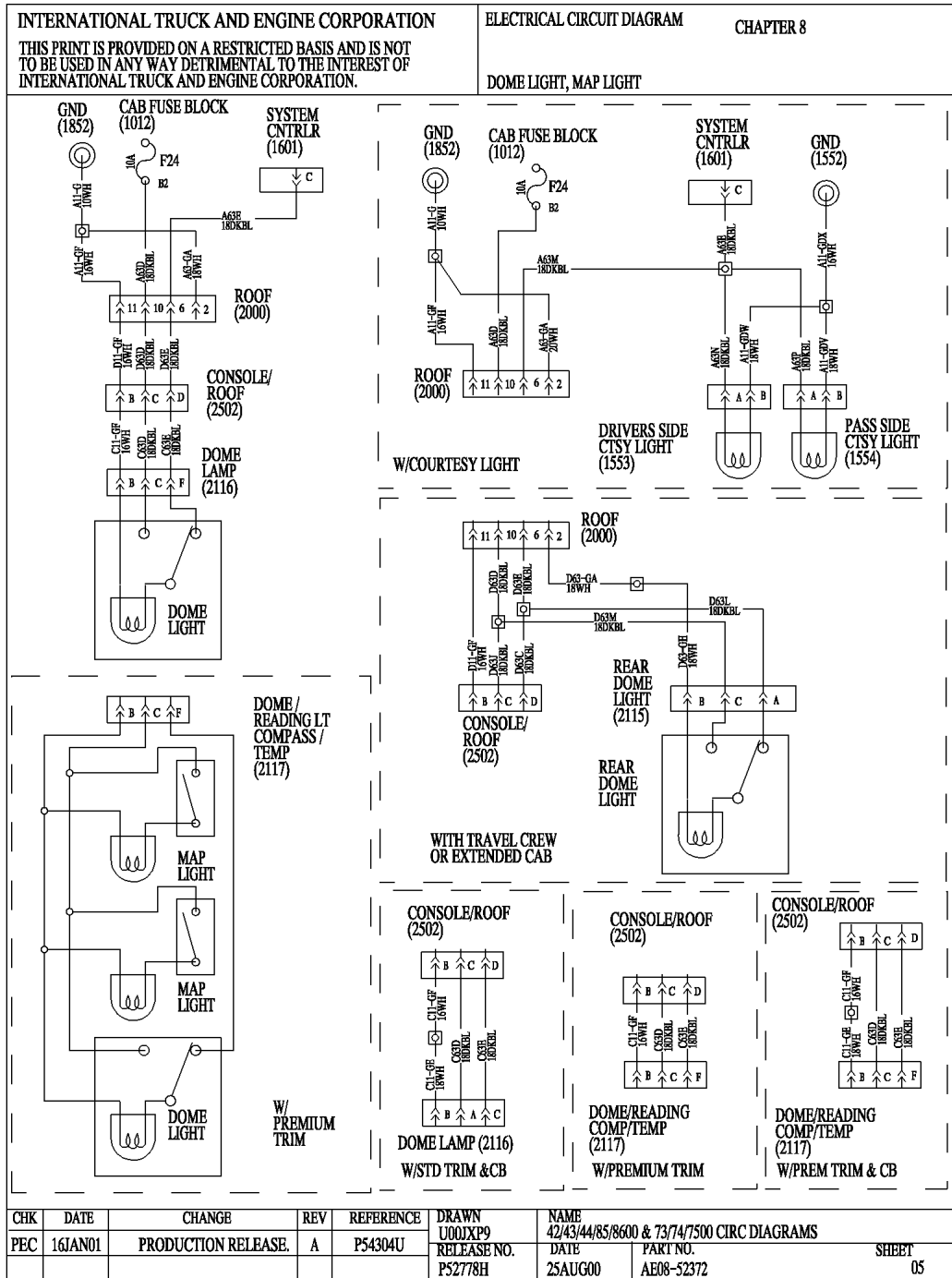


Figure 65 Light Systems — Turn Signal and Stop Switches

## 8.5. DOME LIGHT, MAP LIGHT, P. 5



**Figure 66 Dome Light, Map Light**



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

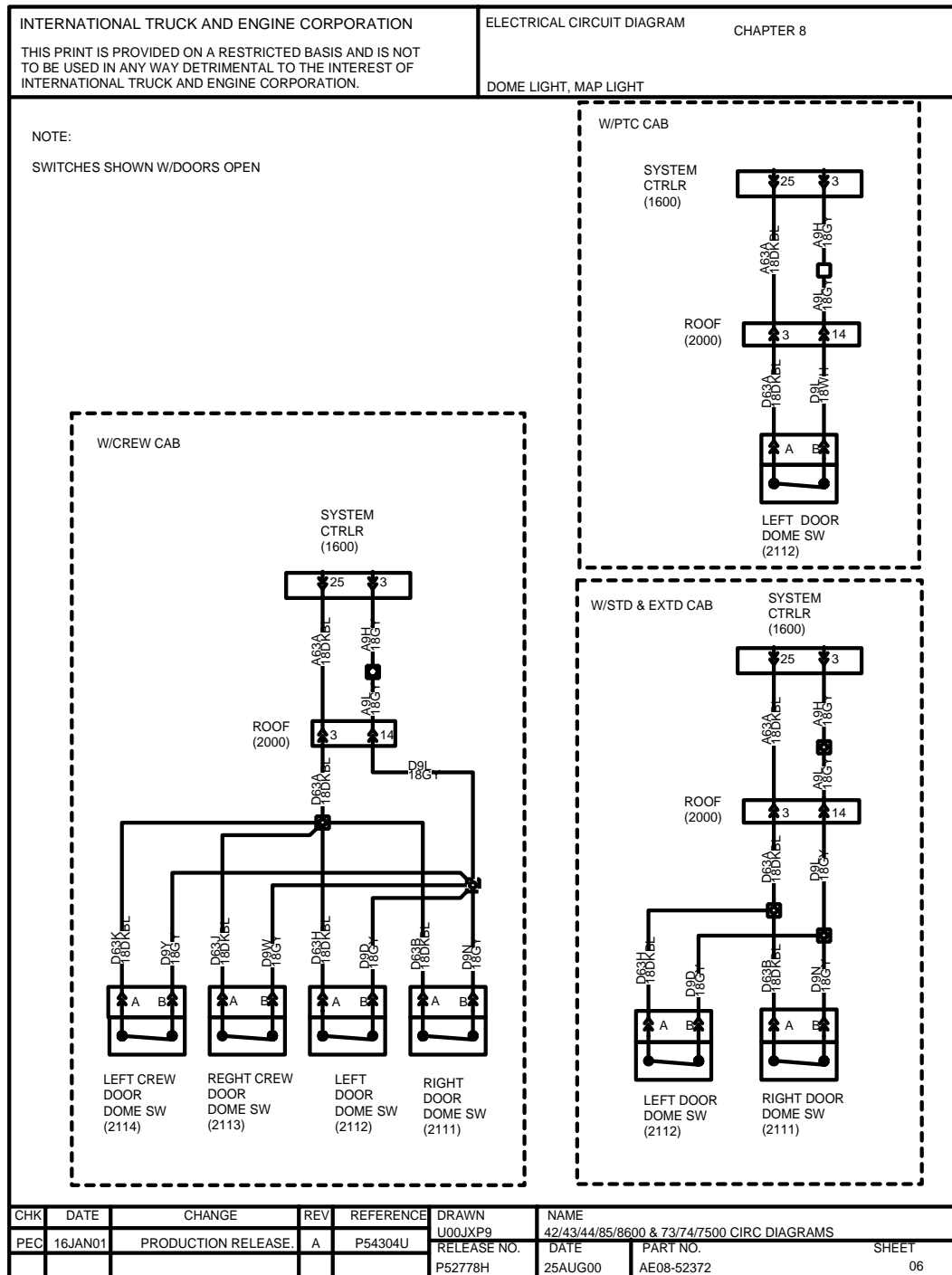


Figure 67 Dome Light, Map Light (Cont.)

8.7. FOG LIGHT AND WORK LIGHT, P. 7

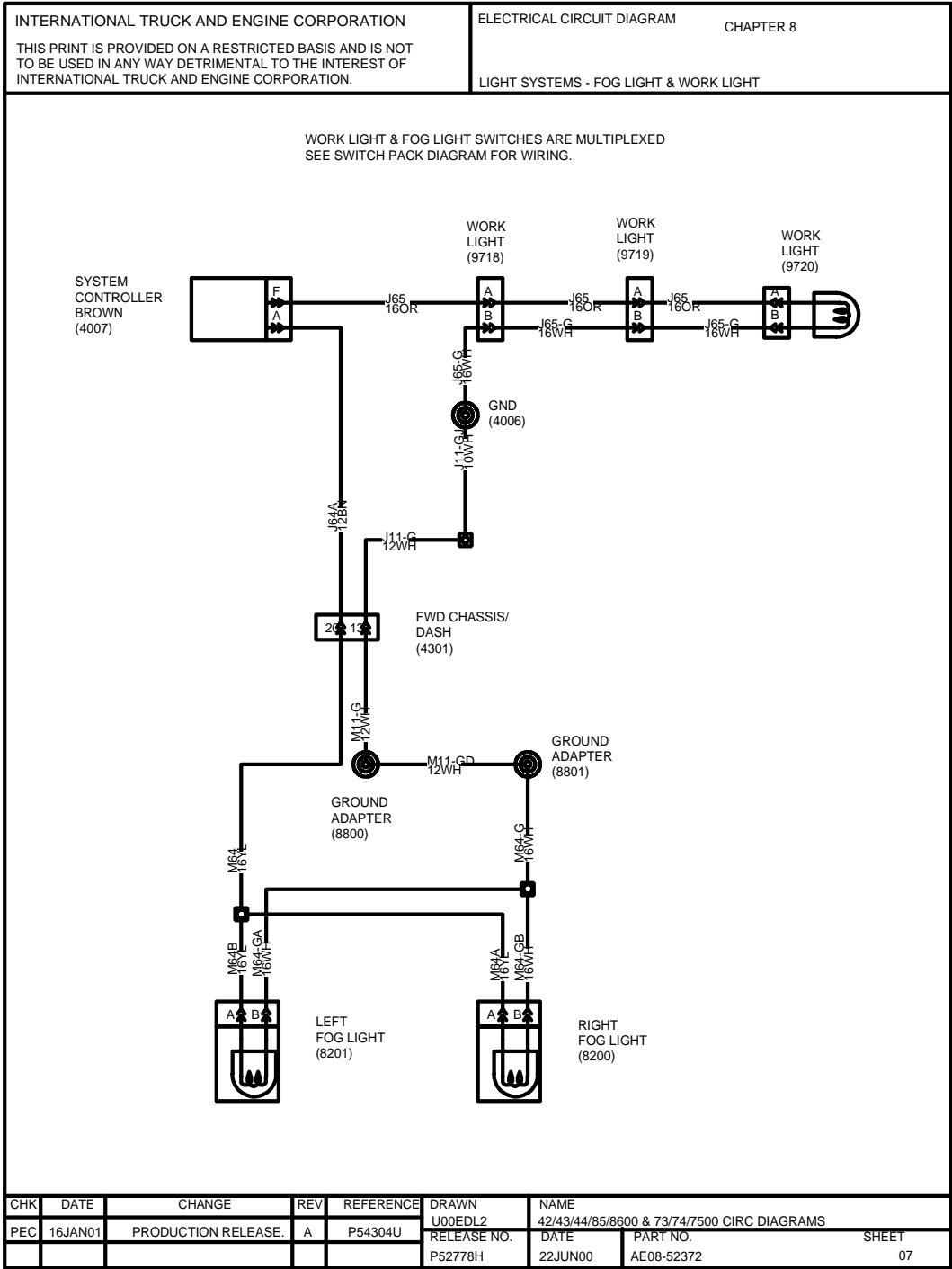
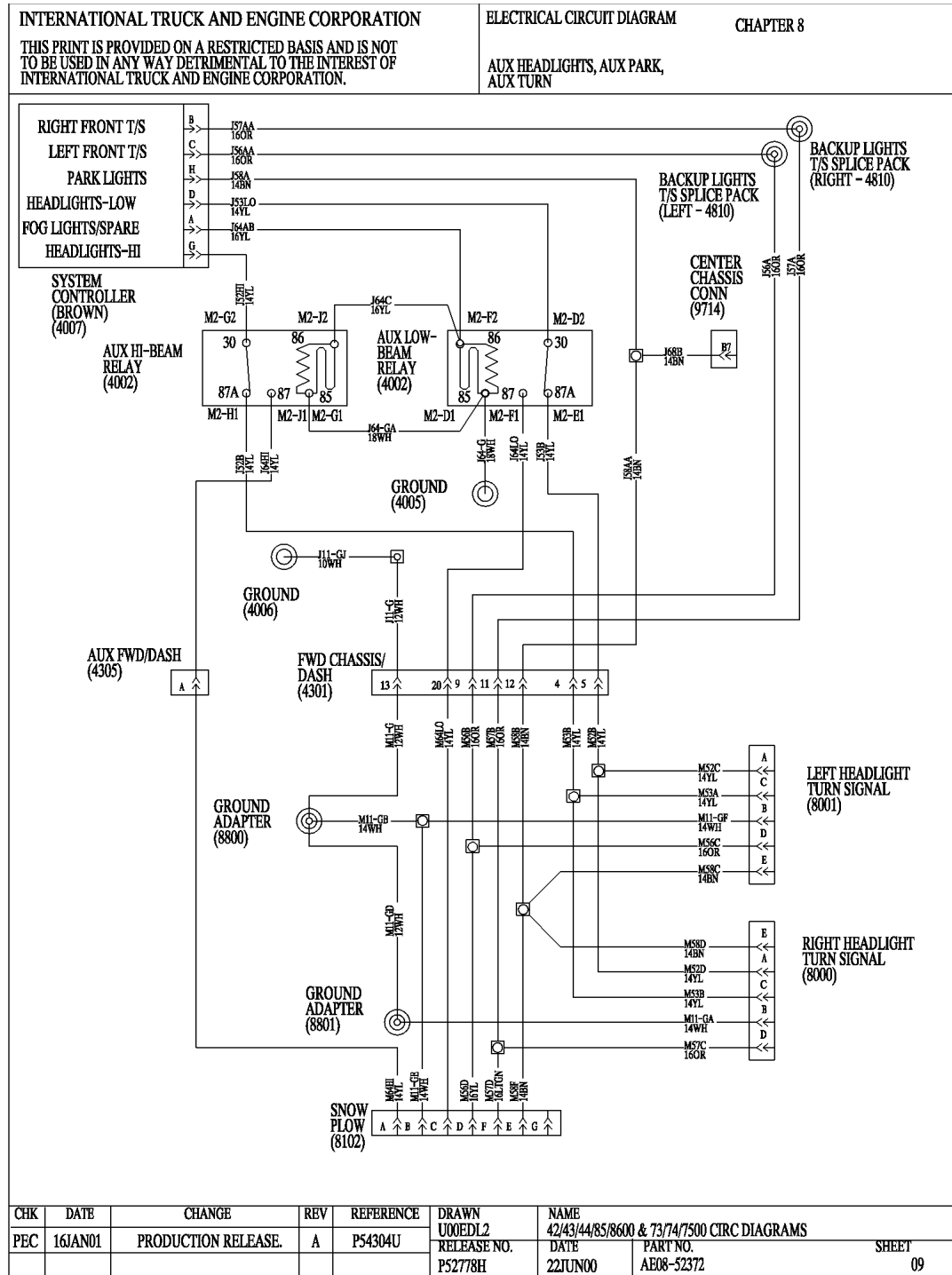


Figure 68 Fog Light and Work Light

[illegible]

### Figure 69 Headlights

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



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

## 8.10. PANEL LIGHTS, P. 10

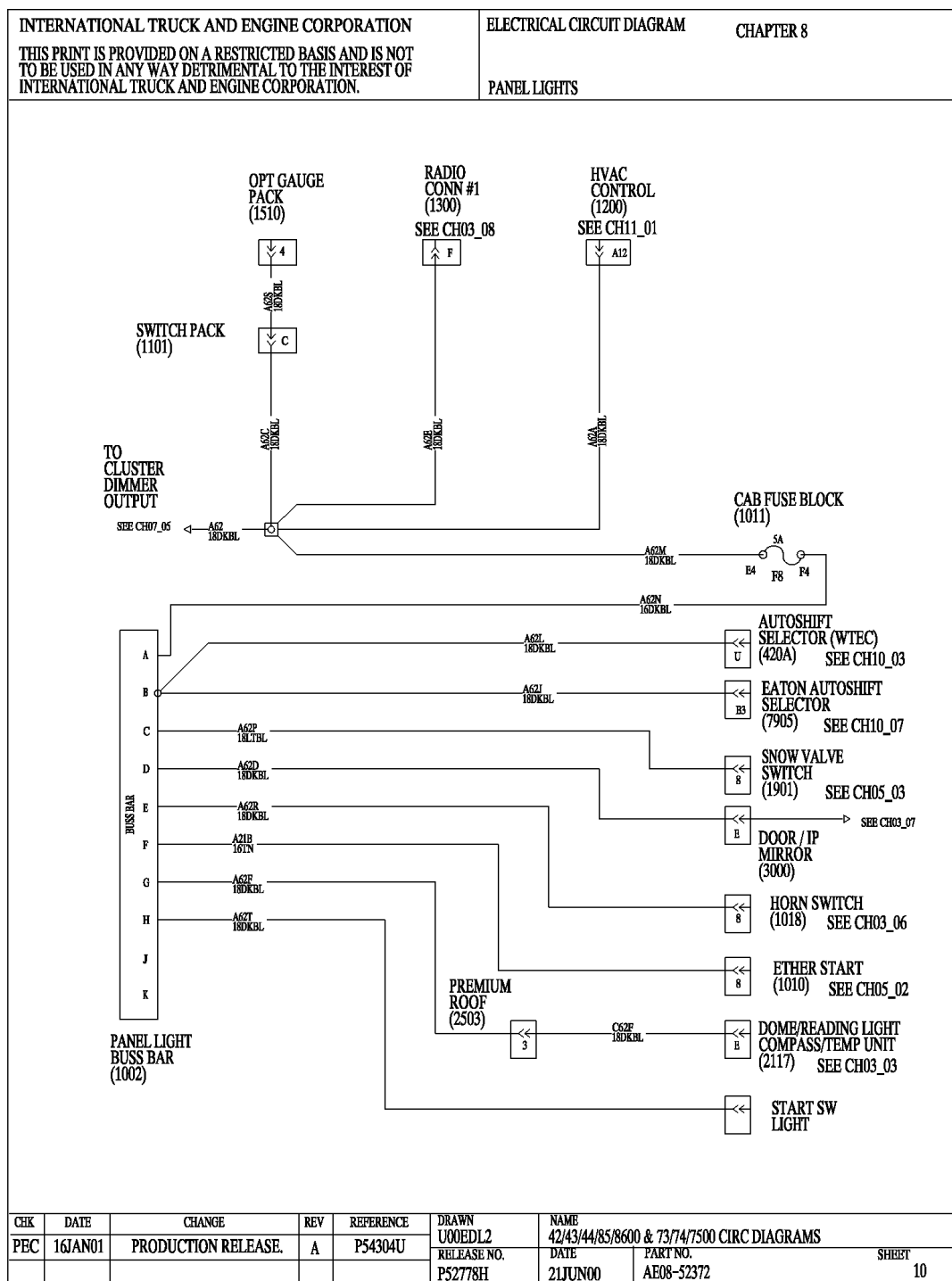


Figure 71 Panel Lights

9. CHASSIS ACCESSORIES (CHAPTER 9)

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

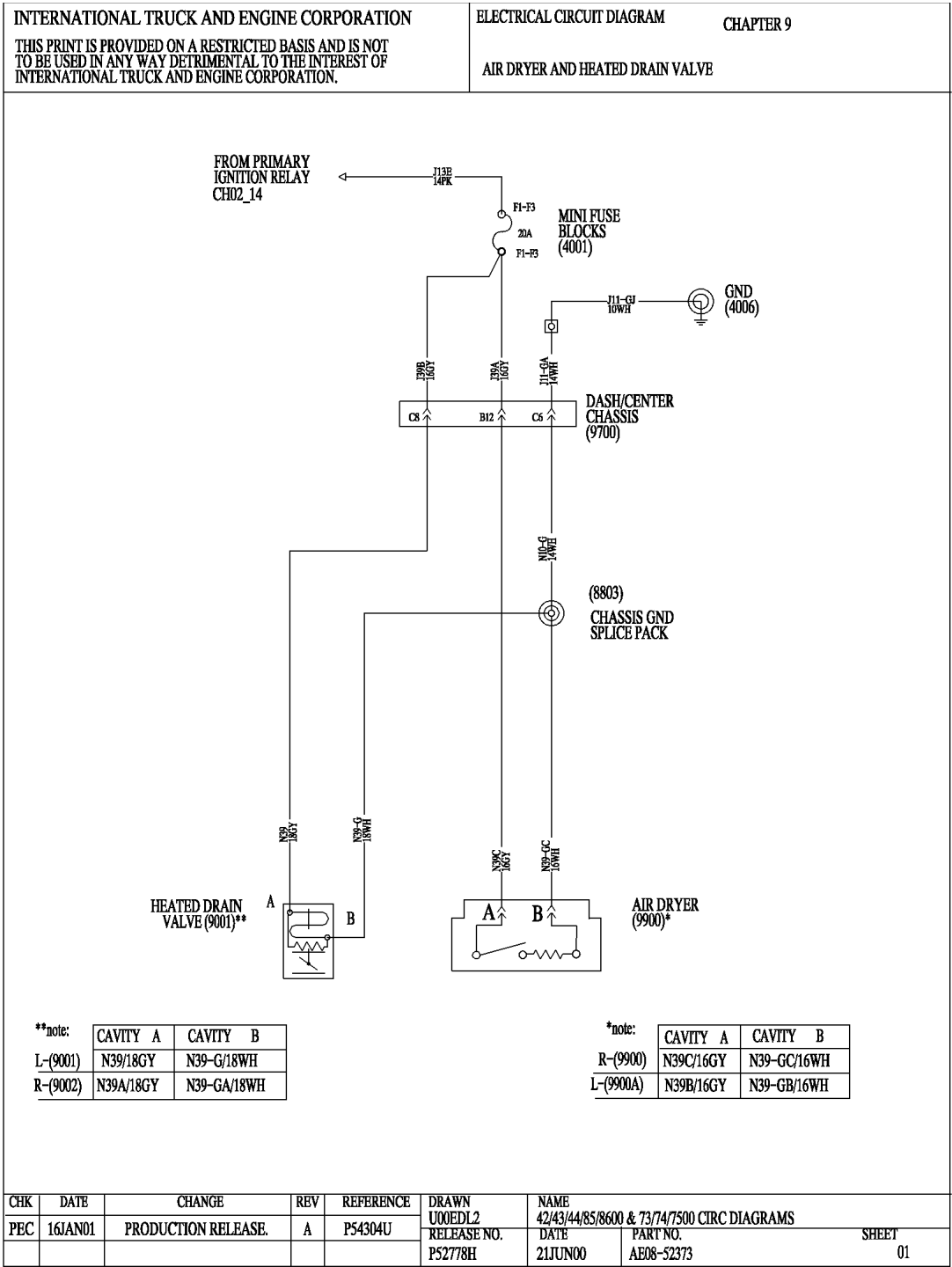


Figure 72 Air Dryer and Heated Drain Valve

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

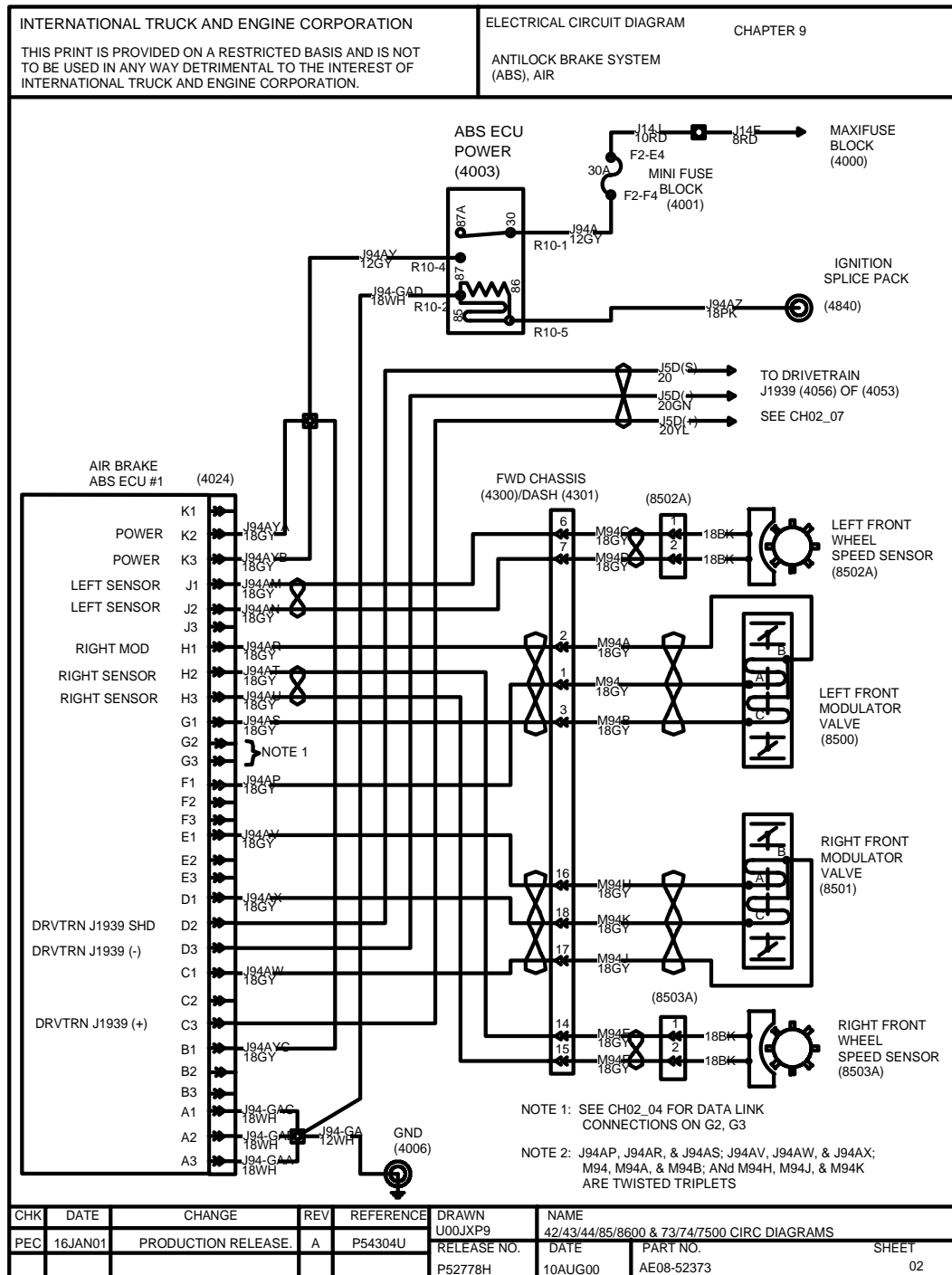


Figure 73 Antilock Brake System (ABS), Air

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

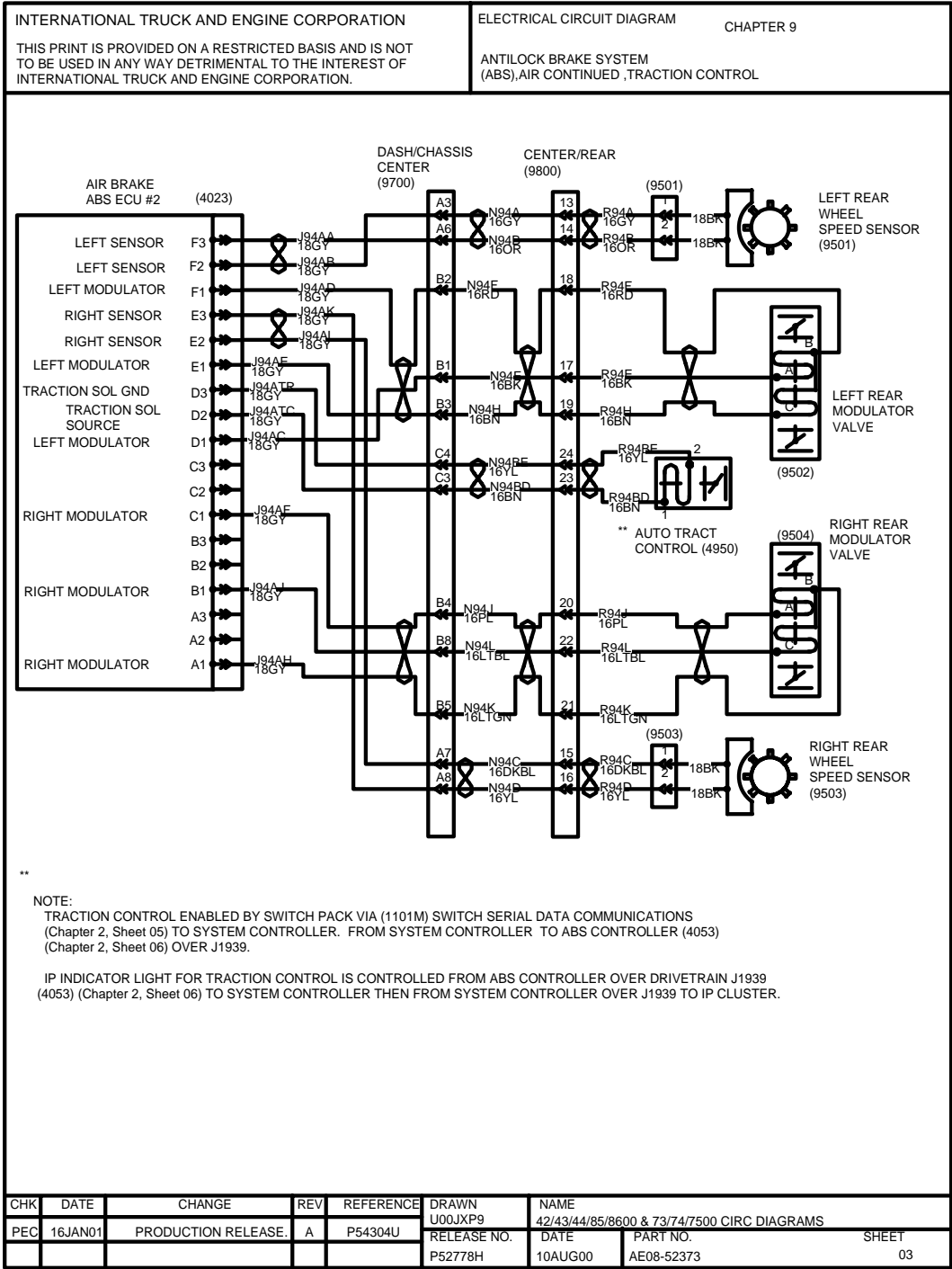


Figure 74 Antilock Brake System (ABS), Air, Traction Control



**INTERNATIONAL TRUCK AND ENGINE CORPORATION**

**ELECTRICAL CIRCUIT DIAGRAM**

**CHAPTER 9**

**ANTILOCK BRAKE SYSTEM (ABS), HYDRAULIC**

**REAR HARNESS (9800)**

**WABCO HYD ABS ECU GREEN (9512)**

**WABCO HYD ABS ECU GRAY (9511)**

**WABCO HYD ABS ECU BLACK (9510)**

**MODULATORS (9507)**

**PUMP ASSY (9509)**

**DASH/CENTER CHASSIS (9700)**

**CHASSIS/DASH HYD ABS (4910)**

**MAXIFUSE BLOCK (4000)**

**MINI FUSE BLOCK (4001)**

**FROM PRIMARY IGNITION RELAY**

**SEE CH9\_05**

**SEE CH9\_06**

**SEE CH9\_07**

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**SEE CH9\_13**

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**SEE CH9\_231**

**SEE CH**

### Figure 75 Antilock Brake System (ABS), Hydraulic

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

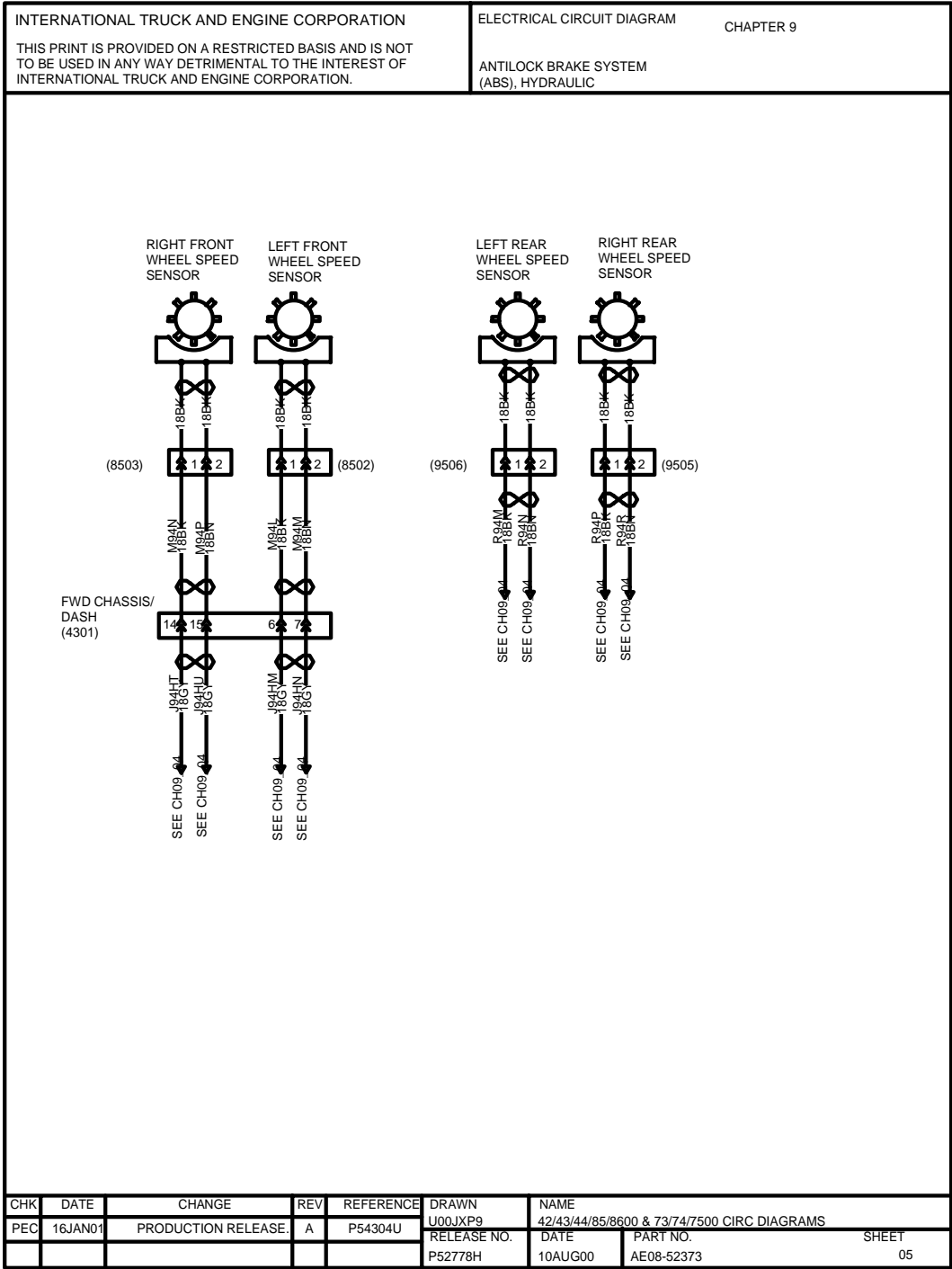


Figure 76 Antilock Brake System (ABS), Hydraulic (Cont.)

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

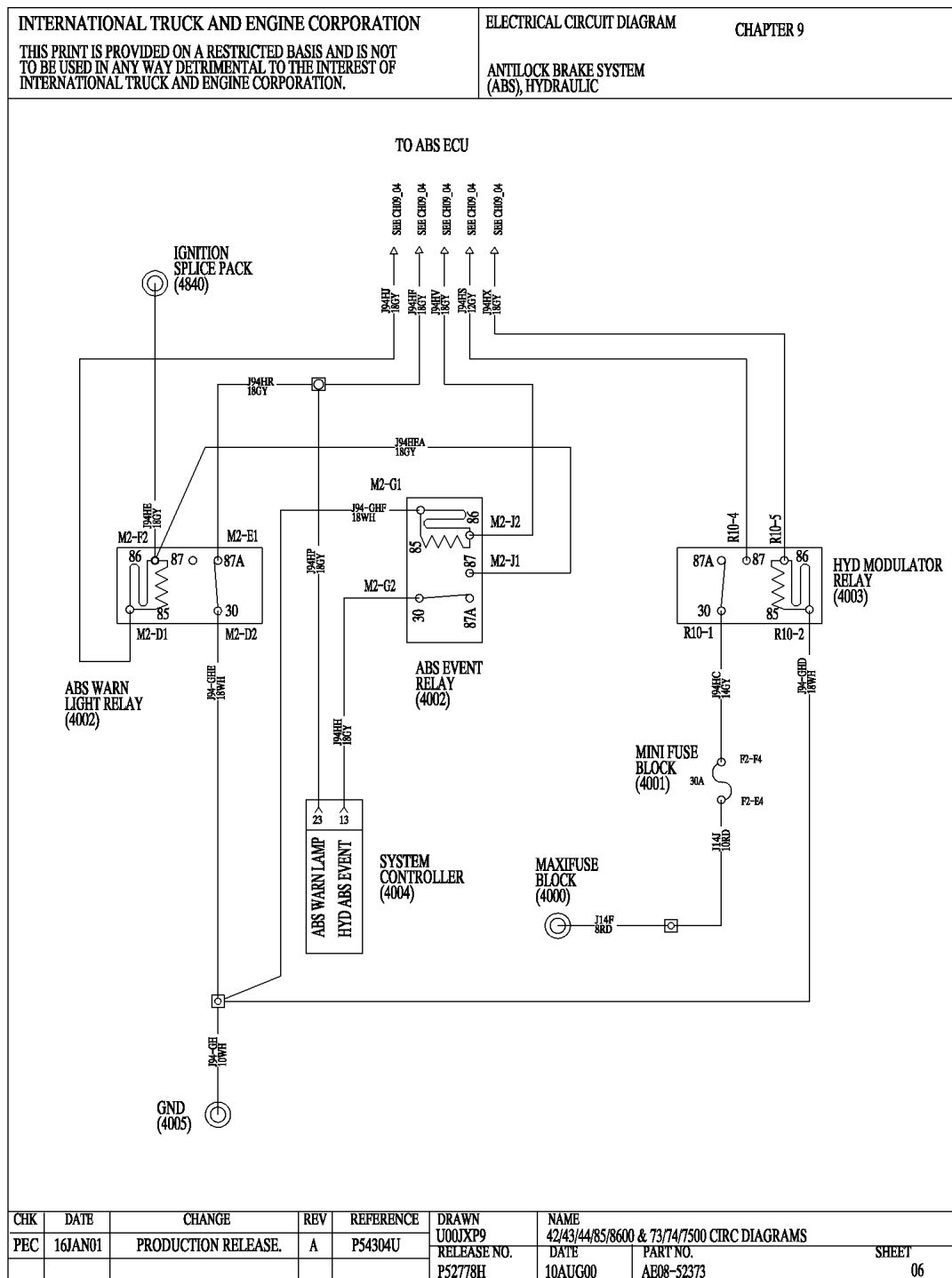


Figure 77 Antilock Brake System (ABS), Hydraulic (Cont.)

[illegible]

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

## 9.8. BRAKE SYSTEM, HYDRAULIC, P. 8

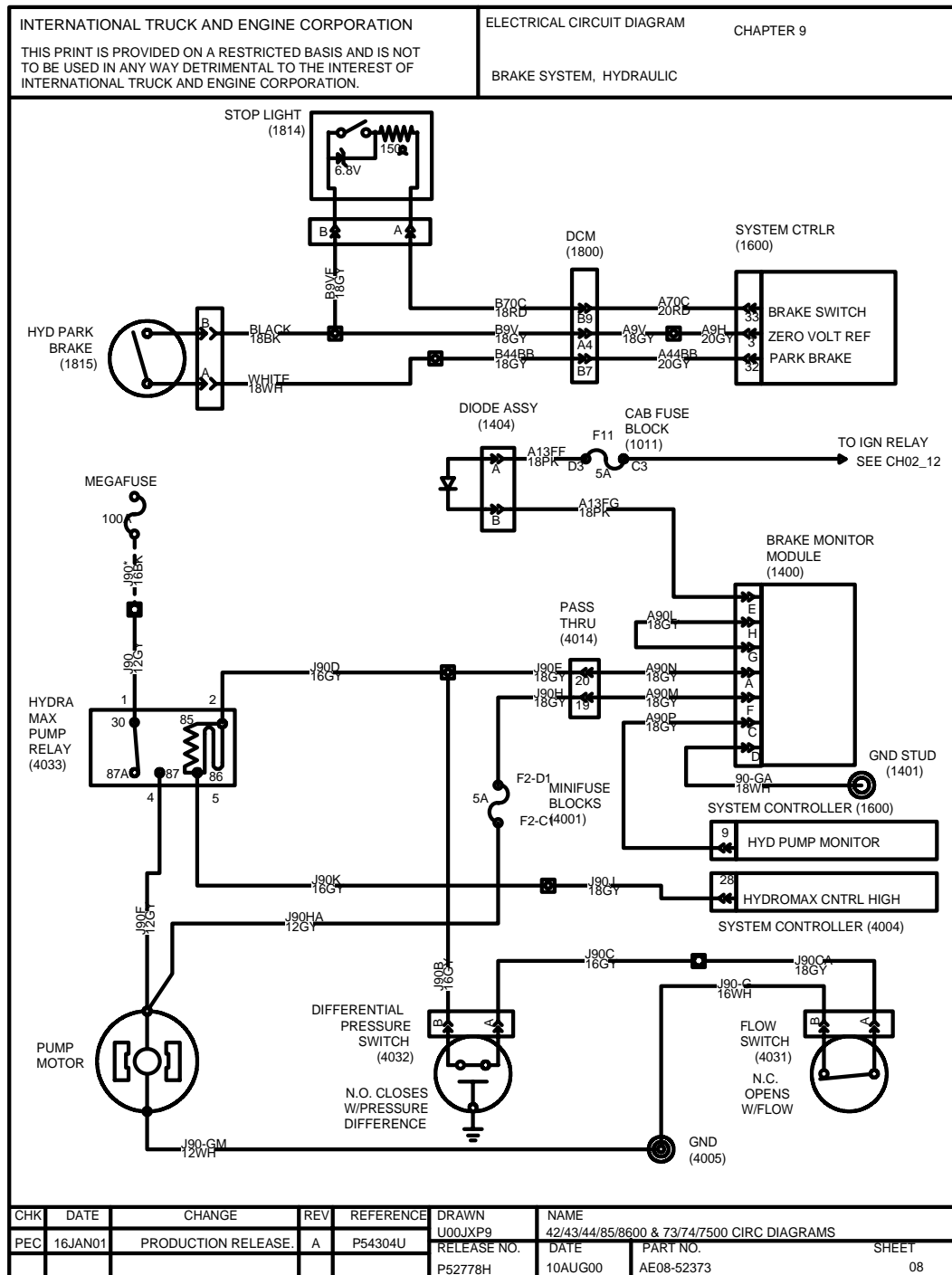


Figure 79 Brake System, Hydraulic

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**ELECTRICAL CIRCUIT DIAGRAM**  
**CHAPTER 9**  
**CHASSIS ACCESSORIES - FUEL TRANSFER PUMP**

**SENDERS RESISTANCE**  
(FULL 29 TO 37 OHMS)  
(EMPTY 234 TO 246 OHMS)

### Figure 80 Fuel Transfer Pump

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

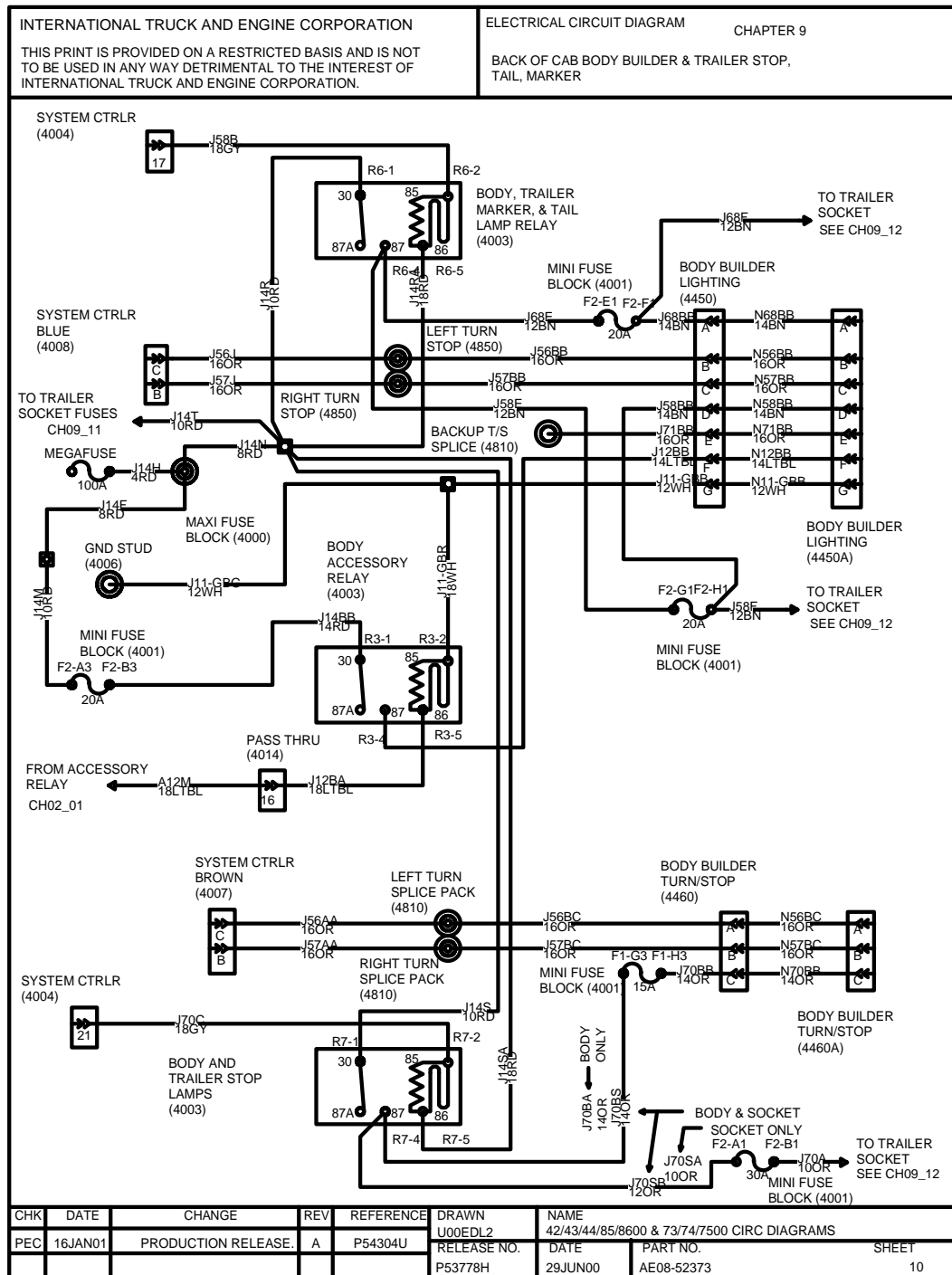


Figure 81 Back of Cab Body Builder and Trailer Stop, Tail, Marker

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

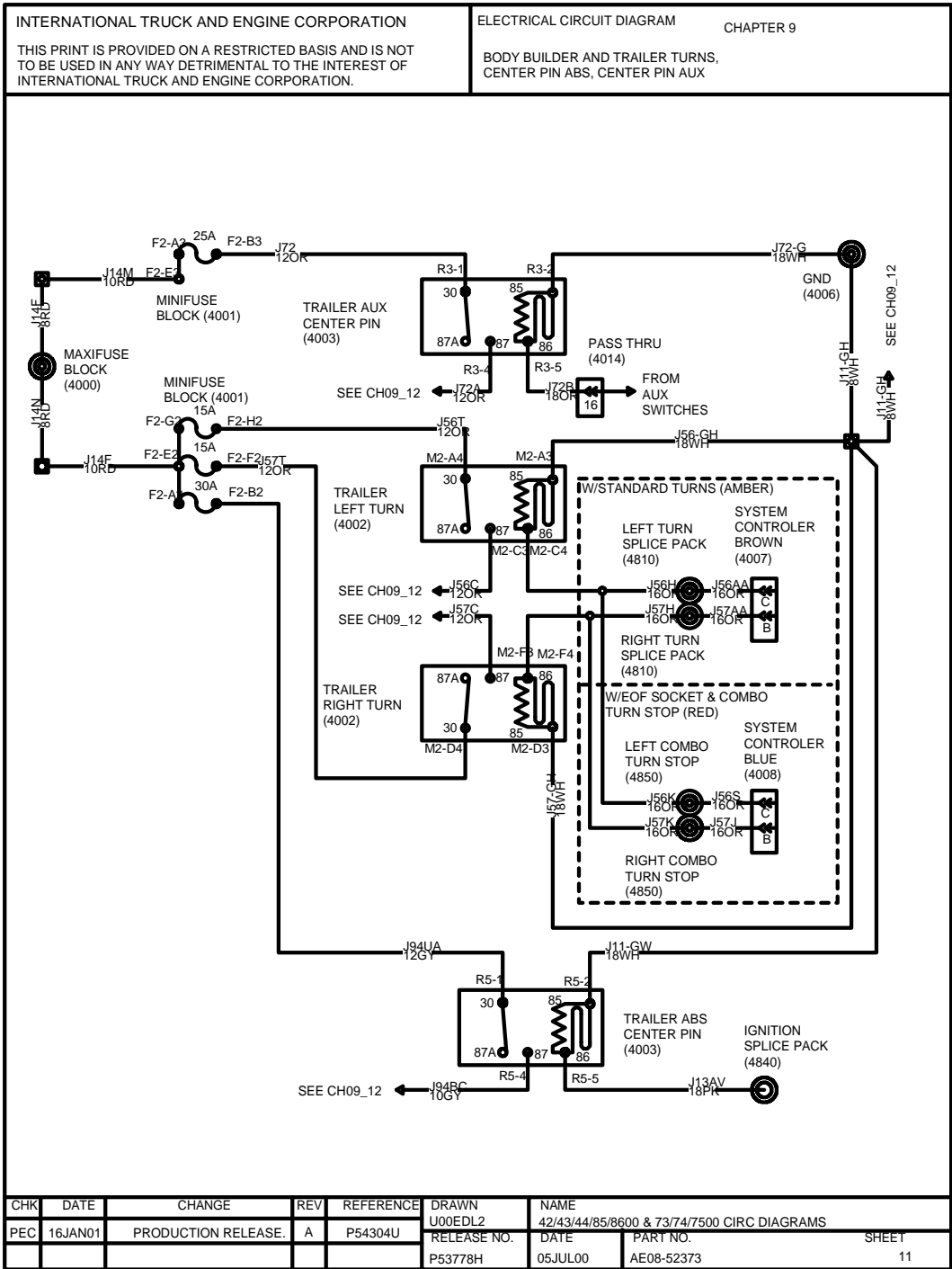


Figure 82 Body Builder and Trailer Turns, Center Pin ABS, Center Pin Aux



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

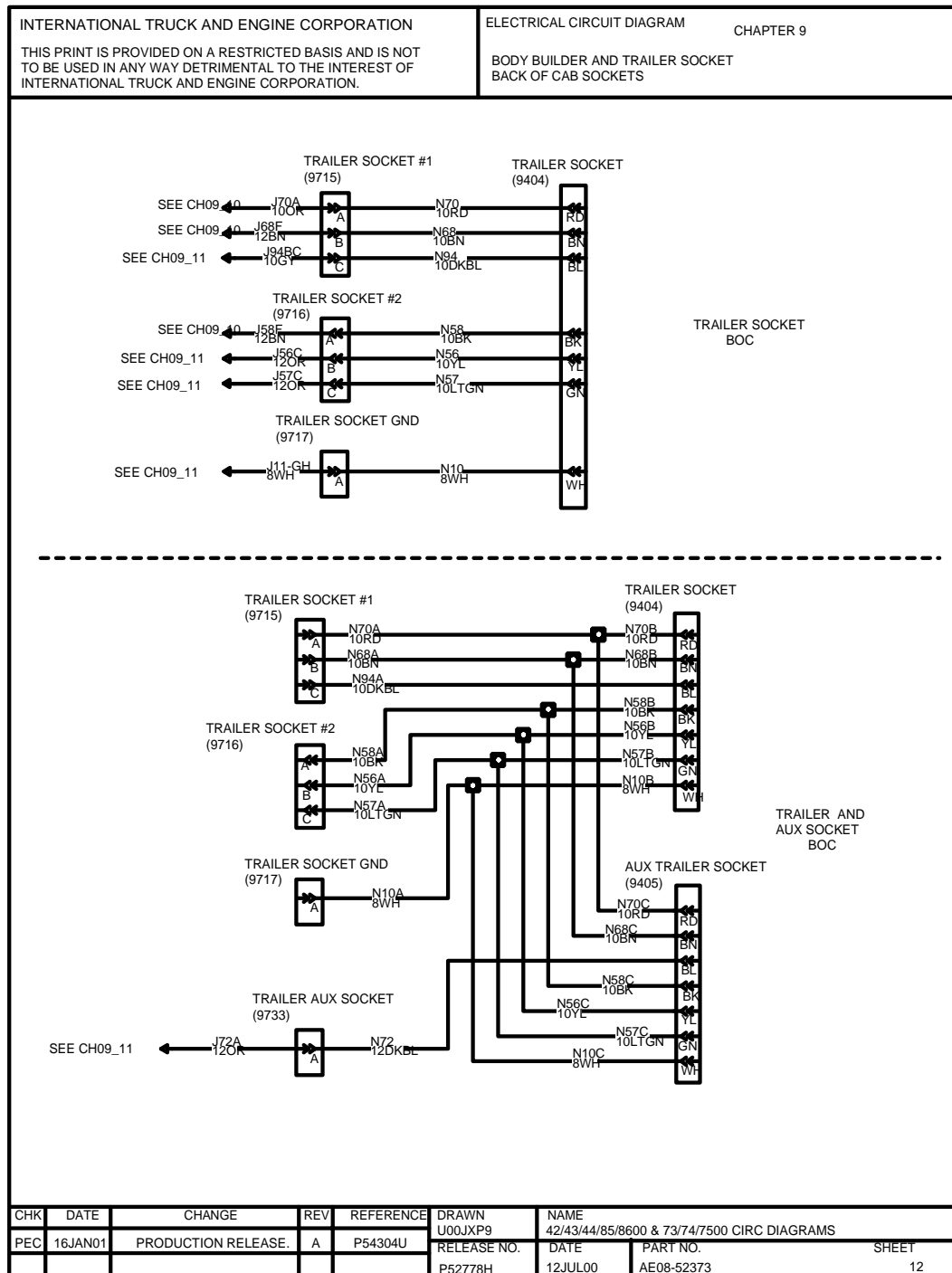


Figure 83 Body Builder and Trailer Socket Back of Cab Sockets

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

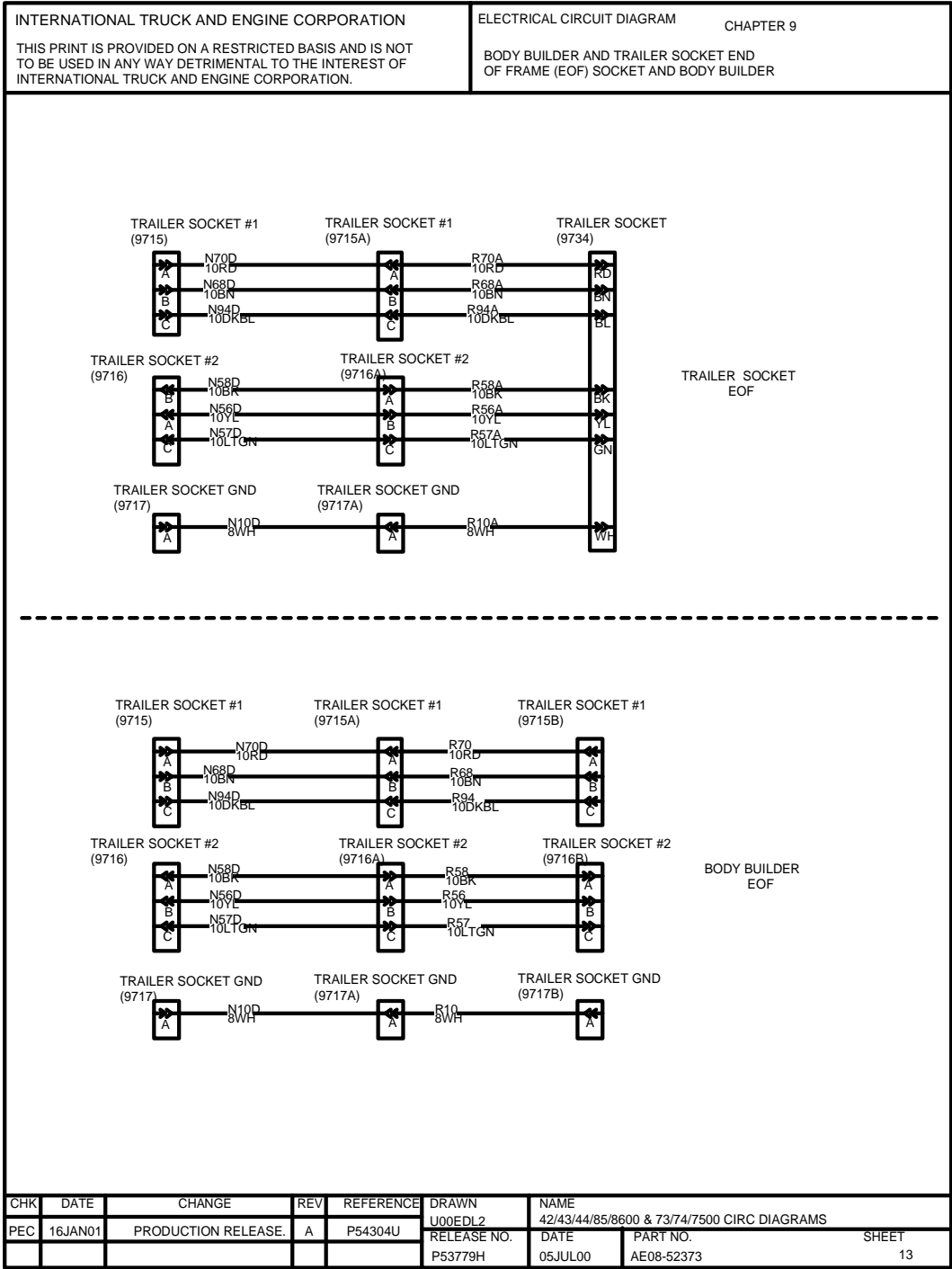


Figure 84 Body Builder and Trailer Socket End of Frame (EOF) Socket and Body Builder

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

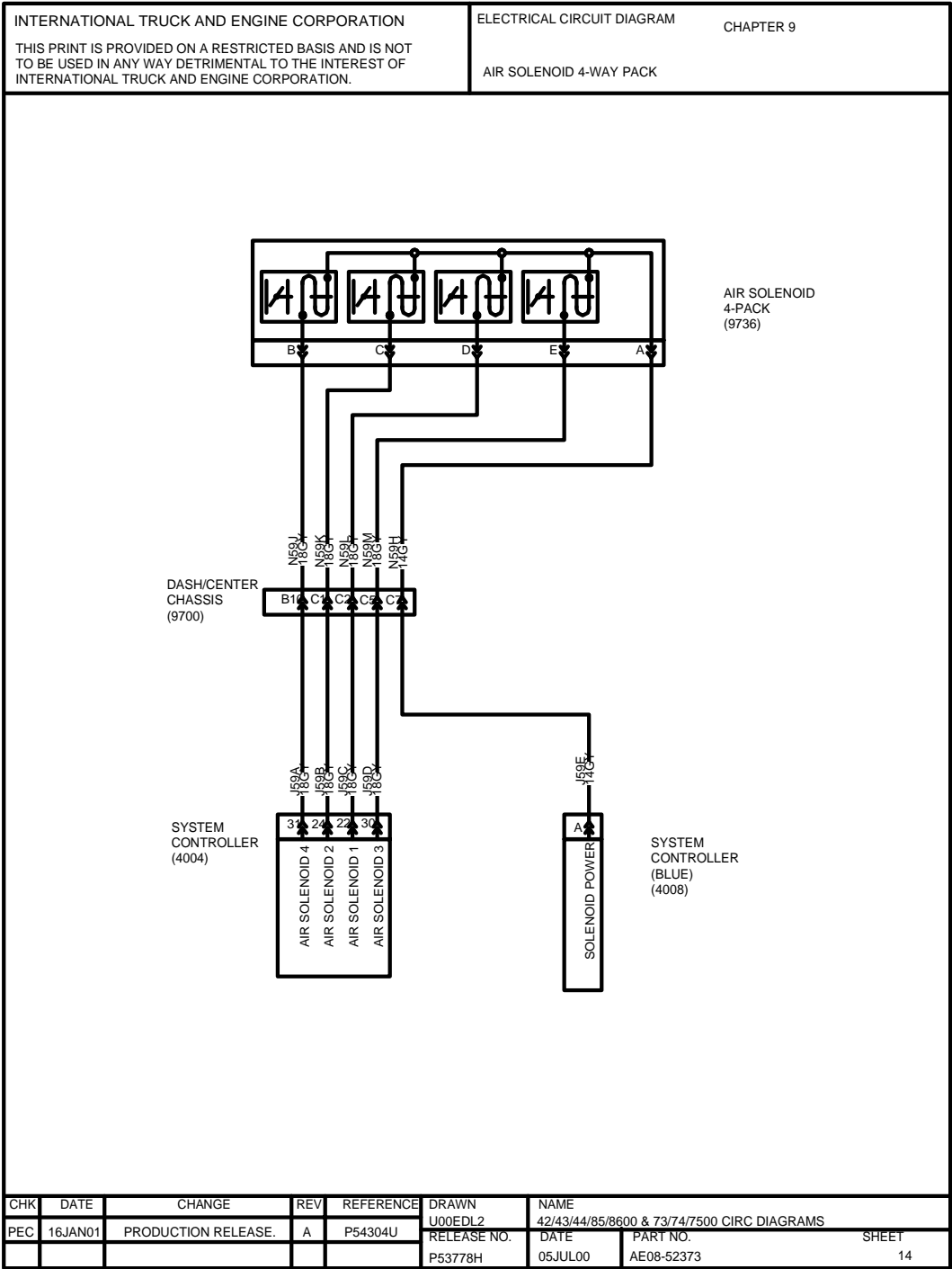


Figure 85 Air Solenoid 4-Way Pack

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**ELECTRICAL CIRCUIT DIAGRAM CHAPTER 9**

REMOTE POWER UNITS, SOLENOID PACKS,  
REMOTE ENGINE SPEED CONTROLLER

The diagram illustrates the electrical system for remote power units, solenoid packs, and engine speed controllers. Key components include:

- Fuses:** J14M (10RD), J14F (8RD), F2-E, F2-F, MINI FUSE 5A BLOCKS (4001).
- Controllers:** SYSTEM CONTROLLER BLUE (4008), SYSTEM CONTROLLER (4004), BODY BUILDER DATE LINK (4054), REMOTE/SOLENOID POWER UNIT (4410).
- Power Units:** FWD REMOTE POWER UNIT (4415), RPM POWER (4412), REMOTE POWER MODULE (4410B, 4410C, 4410D, 4410E, 4410H, 4410M), AIR SOLENOID 7-PACK, REMOTE ENGINE SPEED CONTROLLER PACK.
- Termination:** TERMINATING RESISTOR \* 120 OHM.
- Wiring:** Various wire labels such as (+) 20YL, (-) 20GN, 20SHLD, 20LTGN, 20LTCN, N14, N10-GX, N10-GE, N58, N4GY, etc.

**NOTE 1: EACH LOCATION MAY CONTAIN 2 MODULES**

\*NOTE: MUST HAVE TERMINATING RESISTOR BLOCK/COVER ON LAST MODULE IN CHAIN  
INDIVIDUAL WIRE NAMES WILL VARY AND DEPEND ON NUMBER OF  
REMOTE POWER MODULES PRESENT.

PIN 1, N59x  
PIN 2, N10-Gx  
PIN 3, N x (+) J1939 (+) GN  
PIN 4, N x (-) J1939 (-) YL  
PIN 5, N x (S) J1939 SHIELD  
PIN 6, N14x

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.	PART NO.
					P52778H	AE08-52373
					DATE	SHEET
					10AUG00	15

### Figure 86 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																																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 5%;">CHK</th> <th style="width: 10%;">DATE</th> <th style="width: 20%;">CHANGE</th> <th style="width: 5%;">REV</th> <th style="width: 10%;">REFERENCE</th> <th style="width: 15%;">DRAWN</th> <th style="width: 45%;">NAME</th> </tr> <tr> <td>PEC</td> <td>16JAN01</td> <td>PRODUCTION RELEASE.</td> <td>A</td> <td>P54304U</td> <td>U00EDL2</td> <td>42/43/44/85/8600 &amp; 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>10JUL00</td> </tr> </table>	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						P52778H	10JUL00	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 20%;">PART NO.</th> <th style="width: 80%;">SHEET</th> </tr> <tr> <td>AE08-52373</td> <td>16</td> </tr> </table>	PART NO.	SHEET	AE08-52373	16
CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME																											
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					RELEASE NO.	DATE																											
					P52778H	10JUL00																											
PART NO.	SHEET																																
AE08-52373	16																																

**Figure 87    HYD Power Park**

9.17. AIR SUSPENSION, P. 17

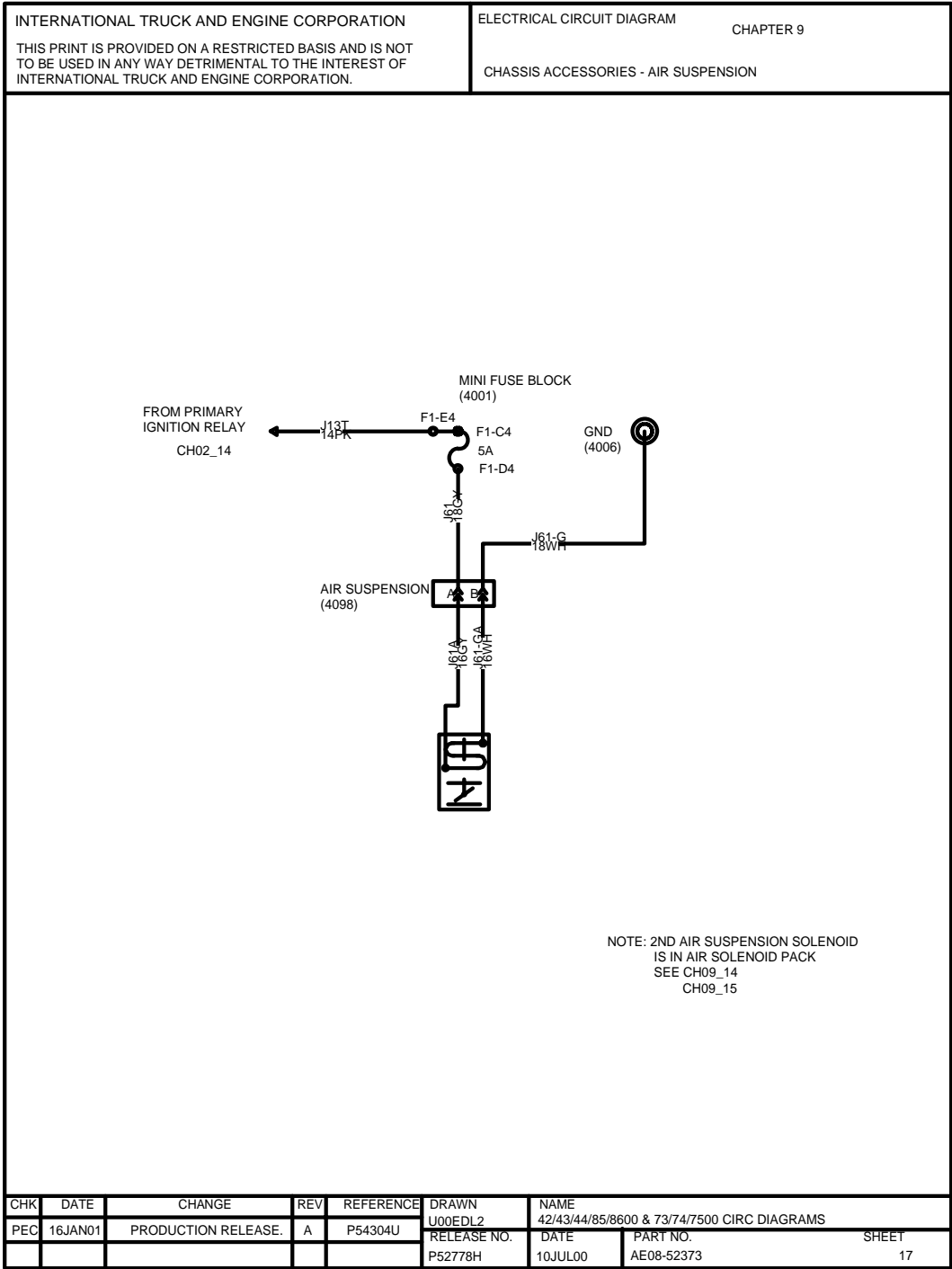


Figure 88 Air Suspension

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

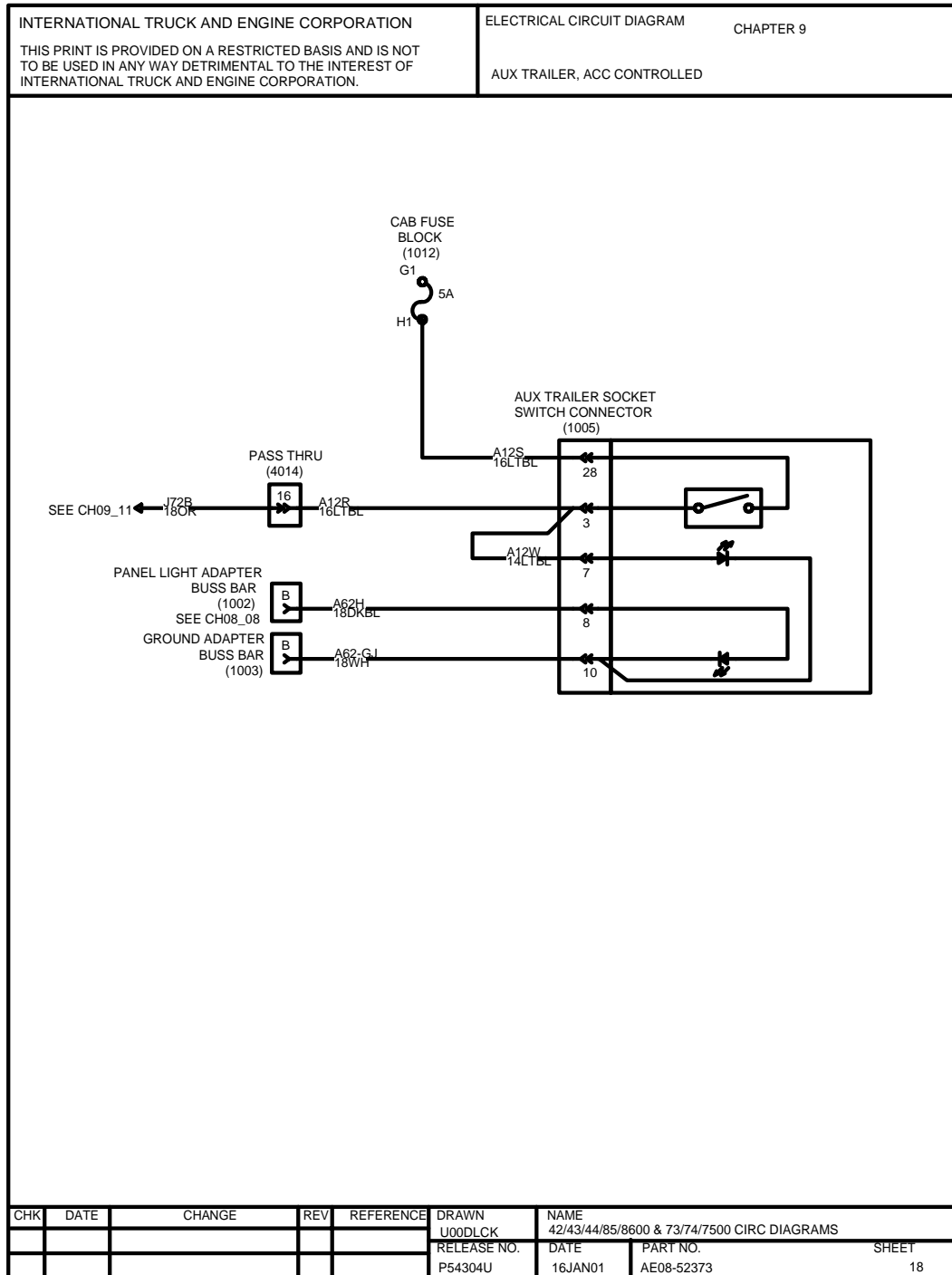


Figure 89 Aux. Trailer, Acc Controlled

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

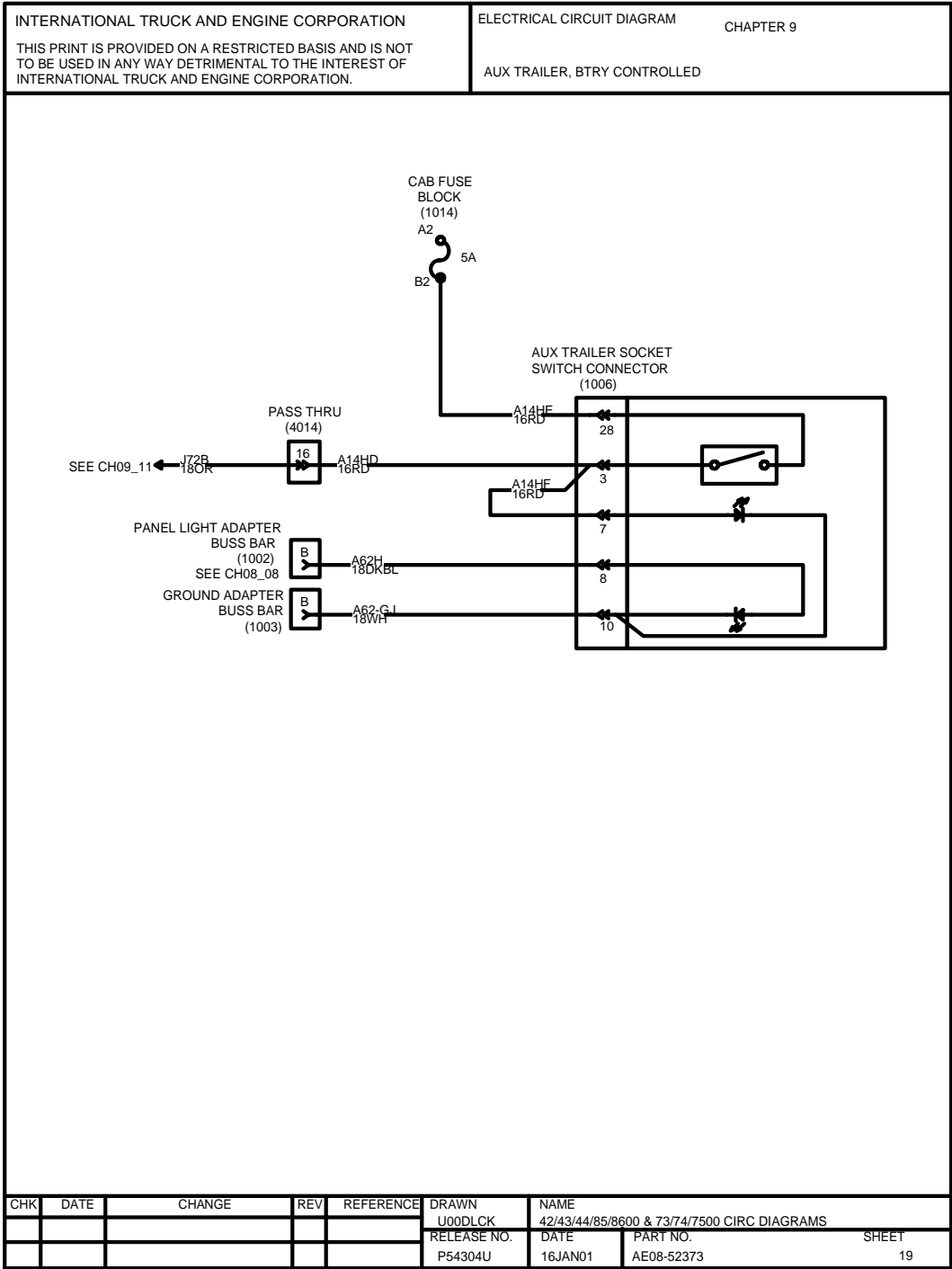
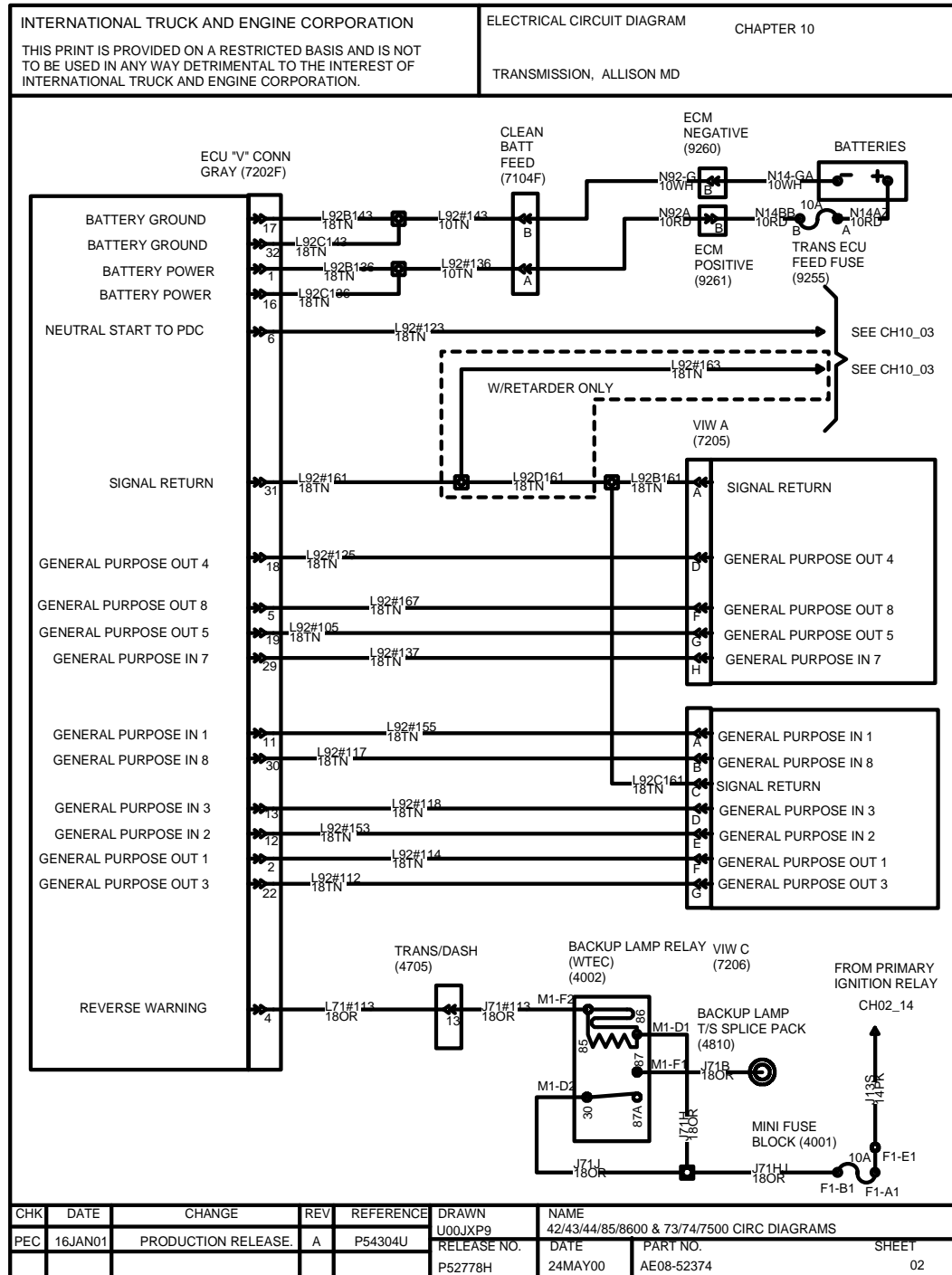


Figure 90    Aux. Trailer, Btry Controlled





## 10.2. ALLISON MD TRANSMISSION, P. 2



**Figure 92 Allison MD Transmission**

### 10.3. ALLISON MD TRANSMISSION (CONT.), P. 3

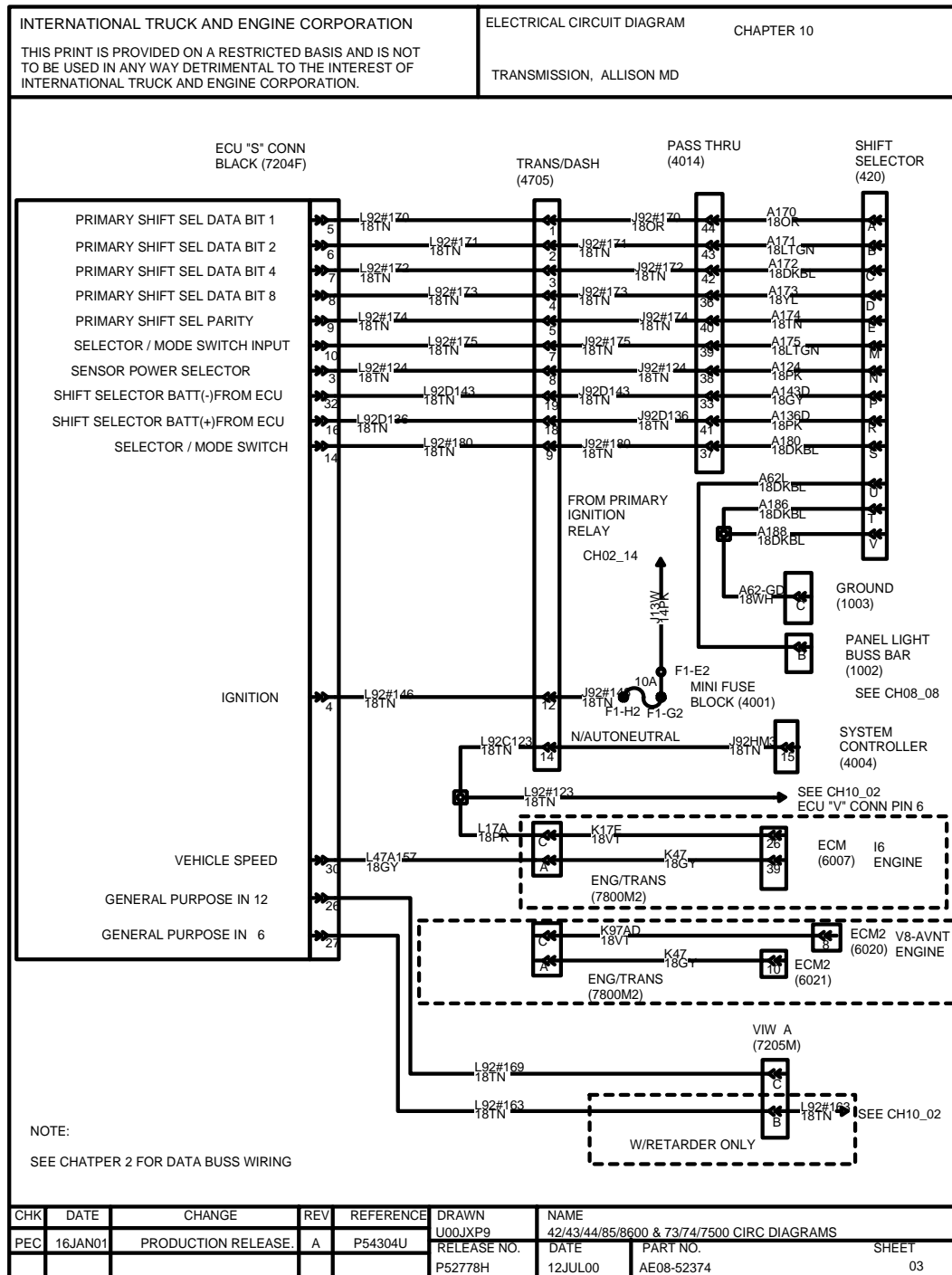
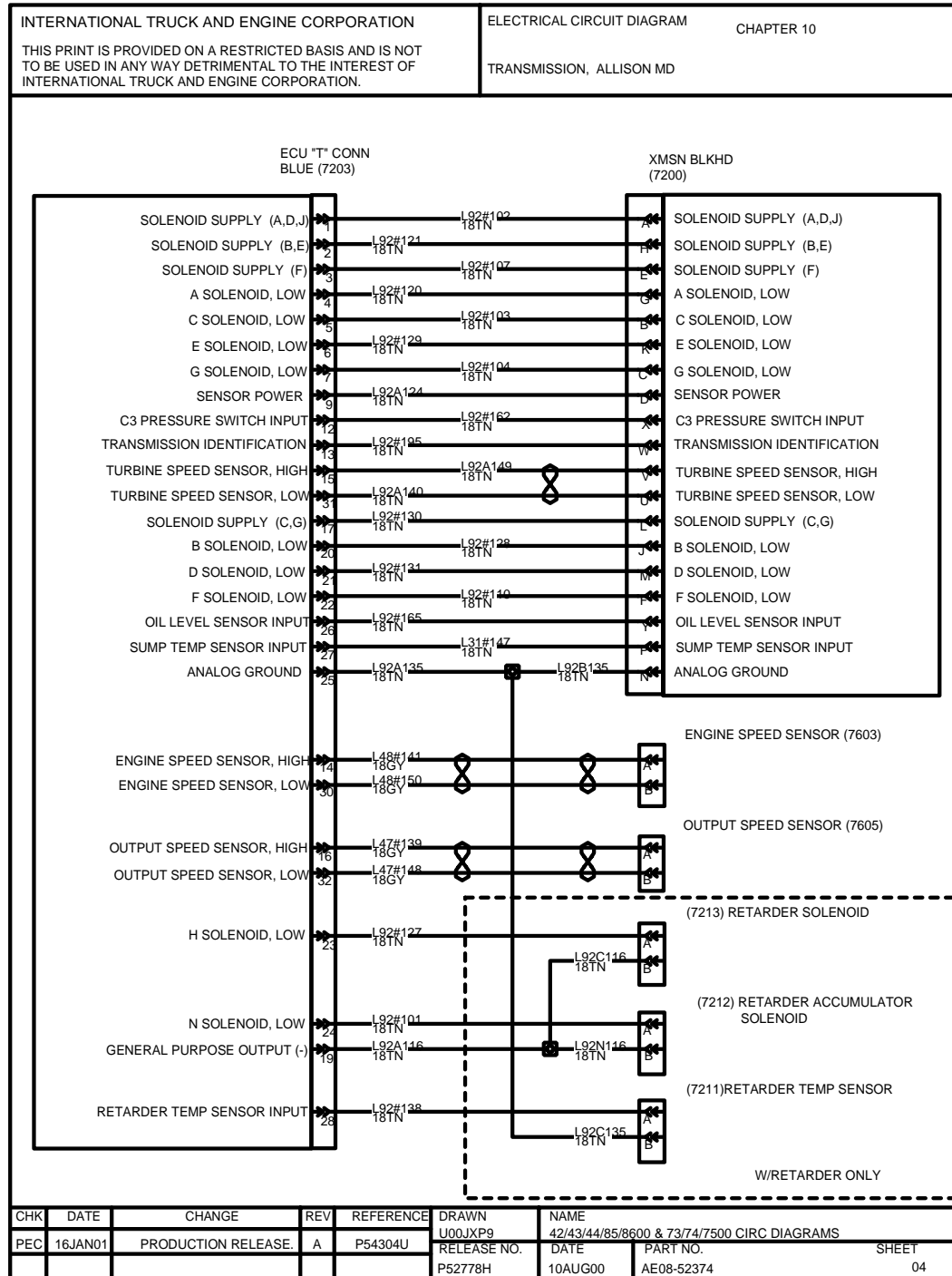


Figure 93 Allison MD Transmission (Cont.)

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



**Figure 94 Allison MD Transmission (Cont.)**

[illegible]

**Figure 95 Transmission, WTEC MD W/Auto Neutral**

10.6. EATON AUTOSHIFT TRANSMISSION, P. 6

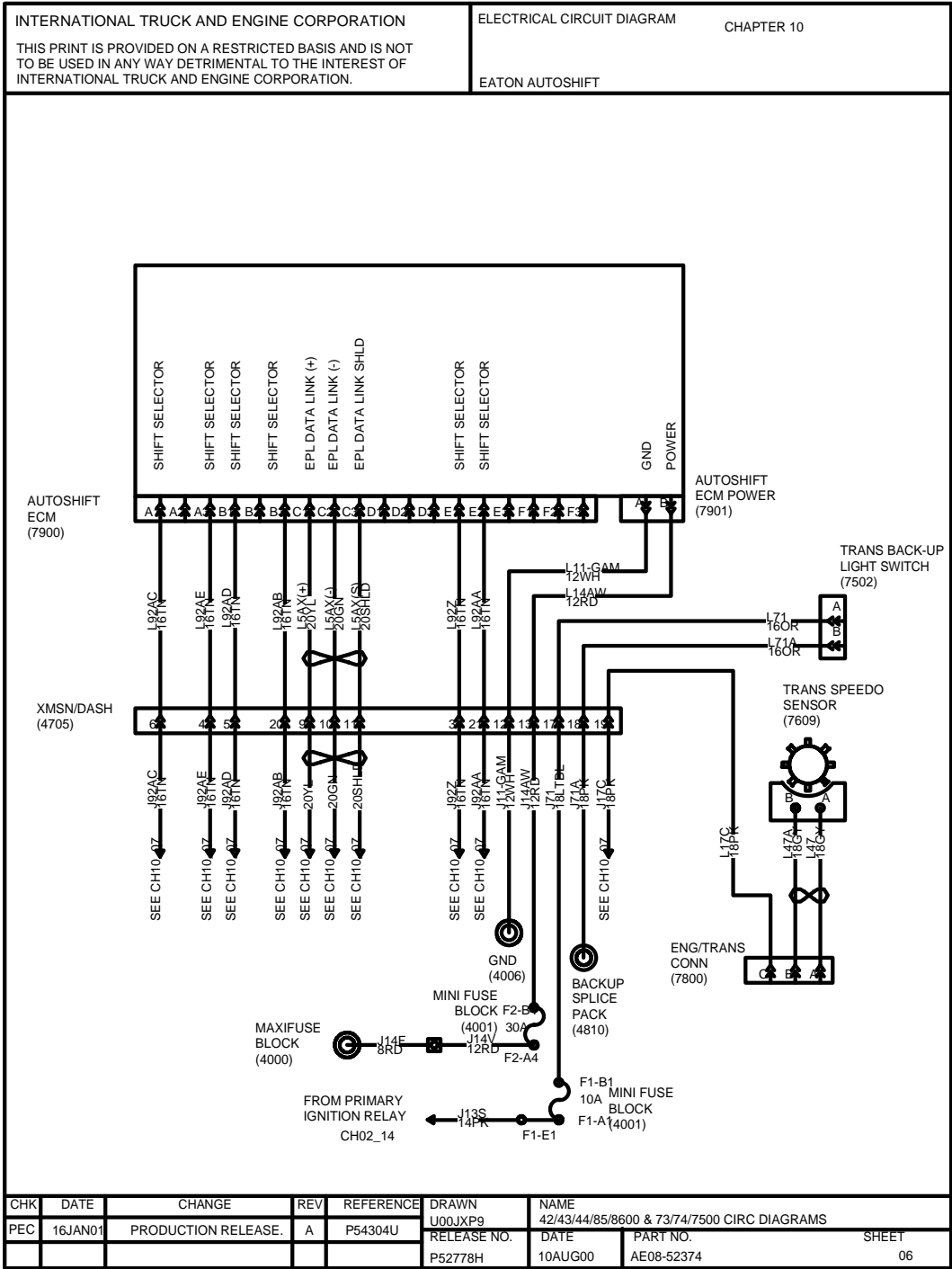


Figure 96 Eaton Autoshift Transmission

[illegible]

### Figure 97 Eaton Autoshift Transmission (Cont.)

11. AIR CONDITIONING (CHAPTER 11)

11.1. HVAC SYSTEMS, P. 1

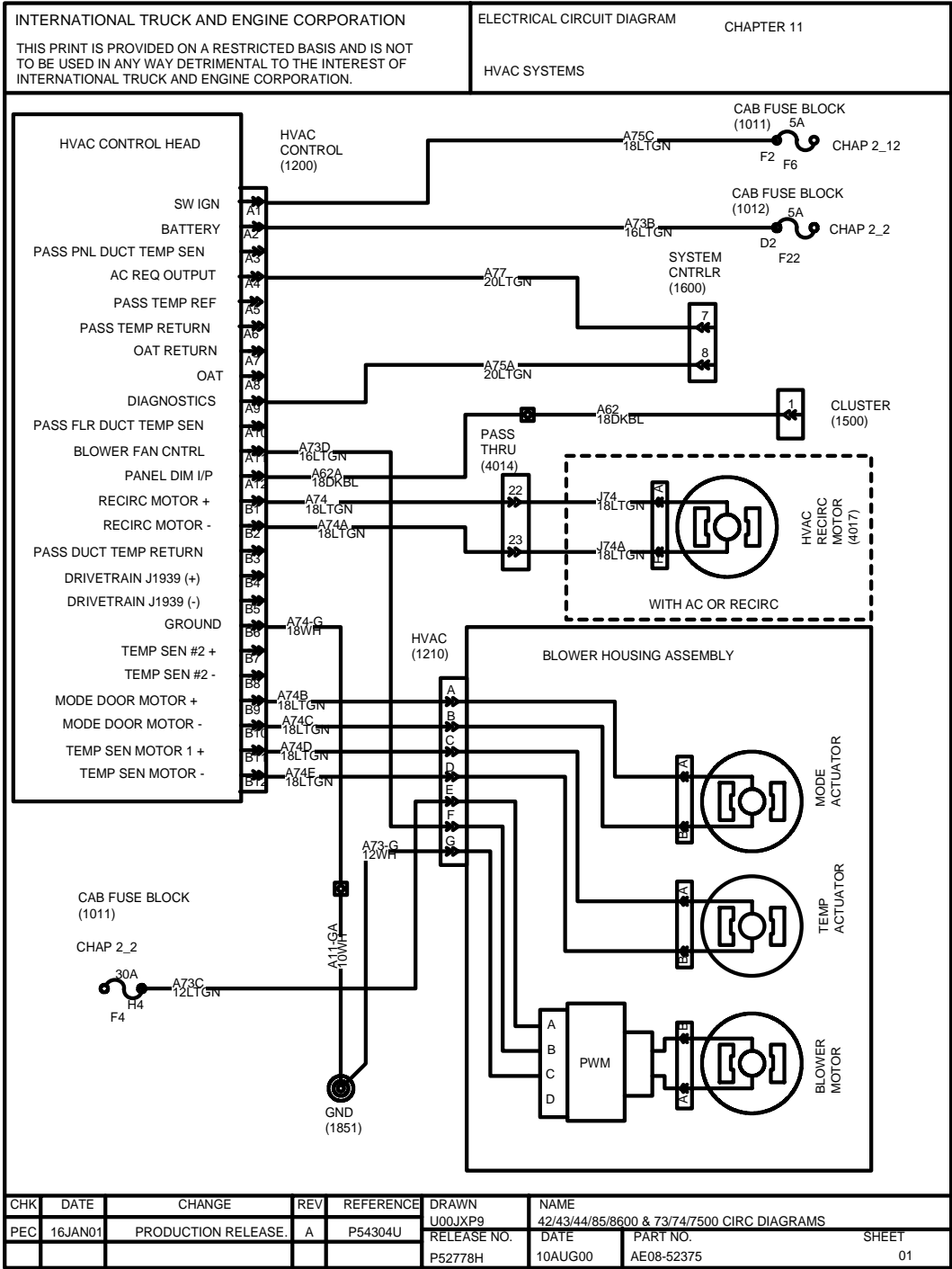


Figure 98 HVAC Systems



## 11.2. AIR CONDITIONING (ONLY), P. 2

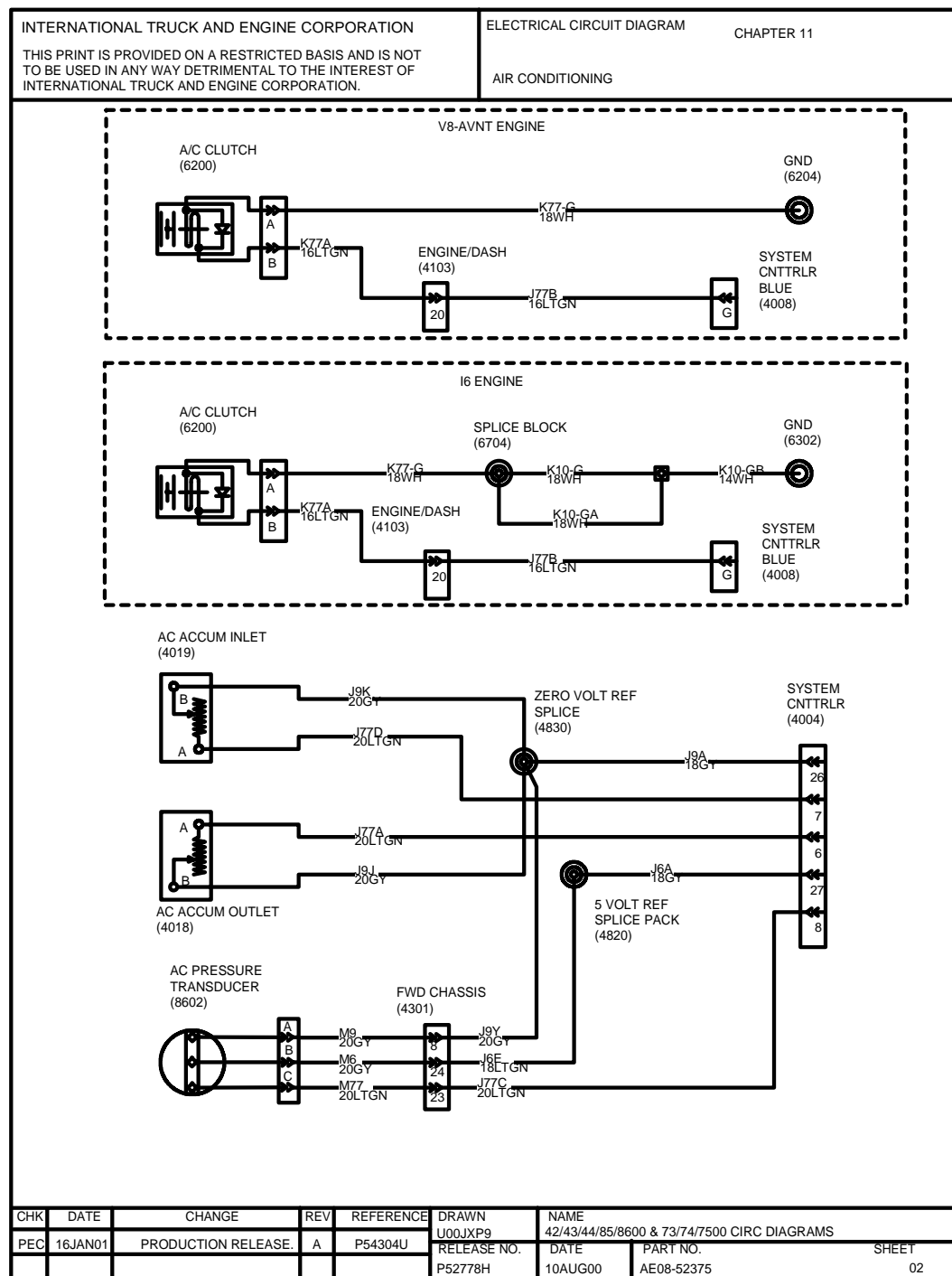


Figure 99 Air Conditioning (Only)