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

7.1. IP/GAUGE LIST, P. 1

ΙĖ	RNATIO	NAL TRUCK AND	ENGINE	CORF	PORATION	ELECTR	RICAL CIRCUIT DIA	GRAM	CHAPTER 7
B	E USED IN	PROVIDED ON A RE N ANY WAY DETRIM AL TRUCK AND ENG	ENTAL TO	THE IN	ITEREST OF	IP/GAU	IGES		
ſ					INSTRUMENT PA	ANEL GAUGE	S		
ŀ									
	GA	GAUGE WARN SIGN				SIGNAL PA	тн		SENSOR LOCATION
ŀ	RPM (TAC	:H)		4	ENGINE CTDI DIDDIVE TDAIN 14020/CLUSTED				
L	MPH/KPH		NO NO	+	ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER				ENGINE TRANSMISSION
L	FUEL	(0. 5)	YES	\dashv	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER				FUEL TANK
ŀ	VOLT		YES	\dashv	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER				
L	AIR 1 (PR	RES)	YES	\dashv			J1939/CLUSTER		INSIDE CAB - DASH PNL
	AIR 2 (PR	-	YES	7	SYSTEM CTRLR/				STEERING COL AREA
L	WATER (T		YES	\dashv	ENGINE CTRLR/I				ENGINE
h	ENG OIL (TEMP)	YES	十	ENGINE CTRLR/I	ORIVE TRAIN	J1939/CLUSTER		ENGINE
r	OIL (PRE	S)	YES	寸	ENGINE CTRLR/I	ORIVE TRAIN	J1939/CLUSTER		ENGINE
r	TRANS (T	EMP)	YES	T	XMSN CTRLR/SY	STEM CTRLF	R/DRIVE TRAIN J19	939/CLUSTER	TRANSMISSION
Ī	AIR APPL	ICATION	NO	T	SYSTEM CTRLR/	DRIVE TRAIN	J1939/CLUSTER	FWD CHASSIS	
Ī	REAR AXL				SYSTEM CTRLR/	DRIVE TRAIN	AXLE		
ľ				T					
ľ			1						
r				T					
r				T					
ľ				T					
ľ			1	T					
Ī									
Γ									
Ī									
	NOTES	: INING LIGHTS ARE I	PART OF TH	HE GA	UGES AND LOCATI	ED IN THE GA	AUGE		
1	1) WAR	NING LIGHTS ARE F	Ē	REV	REFERENCE DR	tawn	NAME) & 73/74/75 ∩ 0	CIRC DIAGRAMS
I	1) WAR	NING LIGHTS ARE F	Ē		REFERENCE DR U0 P54304U RE		NAME 42/43/44/85/8600 DATE	0 & 73/74/7500 PART NO. IEO8-52371	CIRC DIAGRAMS SHEET 01

Figure 56 IP/Gauge List

7.2. WARNING LIGHT LIST, P. 2

		•					
	IP WARNING LIGHTS						
WARNING LIGHT TITLE	SIGNAL PATH				SENSOR		
DANCE IN UDITED			LOCATION				
RANGE INHIBITED	TRANS CTRLR/DRIV						
FUEL FILTER	SYSTEM CTRLR/DRI		FUEL FILTER				
ENGINE (YELLOW LED) ENGINE (RED LED)		ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER					
BRAKE PRESSURE (10)		ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER					
BRAKE FLUID	SYSTEM CTRLR/DRI		SWITCH BRIC DESEVOIR				
TRAC CTRL	TRUCK ABS CTRLR/I	+	BRK RESEVOIR				
CHECK TRANS	TRANS CTRLR/DRIV						
TRAILER ABS	TRLR ABS CTRLR/DR	- 					
WASHER FLUID	SYSTEM CTRLR/DRI	<u> </u>	WASHER BOTTLE				
(LEFT TURN)		SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER					
AIR BAG	DISCRETE NOT ON I	DISCRETE NOT ON DATA BUS					
WATER IN FUEL	SYSTEM CTRLR/DRI	VE TRAIN J1	939/CLUSTER		FUEL FILTER		
COOLANT LEVEL	ENGINE CTRLR/DRI\		SURGE TANK				
CHECK ELECT SYS	SYSTEM CTRLR/DRI	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER					
PARK (P)	SYSTEM CTRLR/DRI		SWITCH				
CRUISE	SYSTEM CTRLR/DRI						
ABS	TRUCK CTRLR/DRIV						
(RIGHT TURN)	SYSTEM CTRLR/DRI						
WAIT TO START	ENGINE CTRLR/DRIV						
FASTEN BELTS	SYSTEM CTRLR/DRI						
(HIGH BEAM IND)	SYSTEM CTRLR/DRI	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER					
COLD AMB PROTEC	SYSTEM CTRLR/DRI	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER					
RETARD OVERHEAT	TRANS CTRLR/DRIV	TRANS CTRLR/DRIVE TRAIN J1939/CLUSTER					
CHECK AC	SYSTEM CTRLR/DRI						
AUTO NEUTRAL	DISCRETE NOT ON I		SWITCH				
ALTERNATOR	DISCRETE NOT ON D						
PTO/THROTTLE	SYSTEM CTRLR/DRI						
OPTIMIZED IDLE	DISCRETE NOT ON D	DATA BUS					
SNOW VALVE	DISCRETE NOT ON D		SNOW VALVE				
FR AXLE DIFF LOCK	DISCRETE NOT ON D		FWD RR AXLE				
RR AXLE DIFF LOCK	DISCRETE NOT ON D		RR RR AXLE				
MESSAGE WAIT	DISCRETE NOT ON I						
PTO	DISCRETE NOT ON I						
CONVERTER TEMP	DISCRETE NOT ON I	DATA BUS					
TOUCHLOC RELEASE	DISCRETE NOT ON I						
PARK FLUID	SYSTEM CTRLR/DRI	VE TRAIN					
DATE CHANGE							

Figure 57 Warning Light List

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

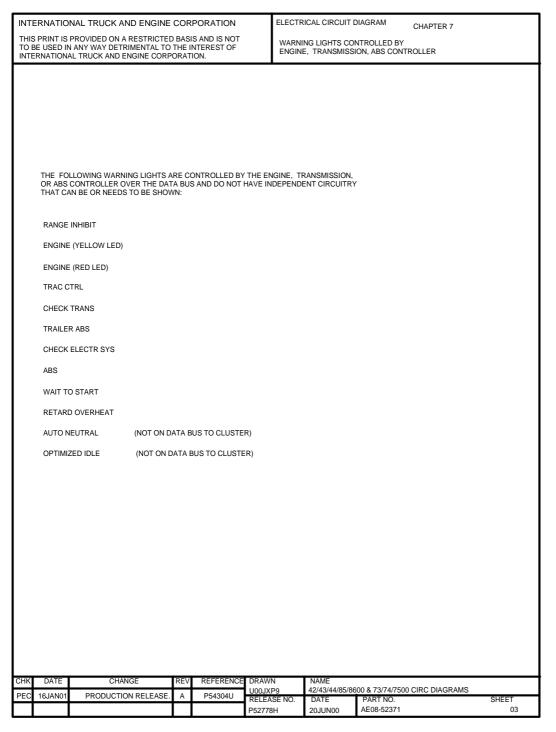


Figure 58 Warning Lights Controlled by Engine, Transmission, ABS Controller

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

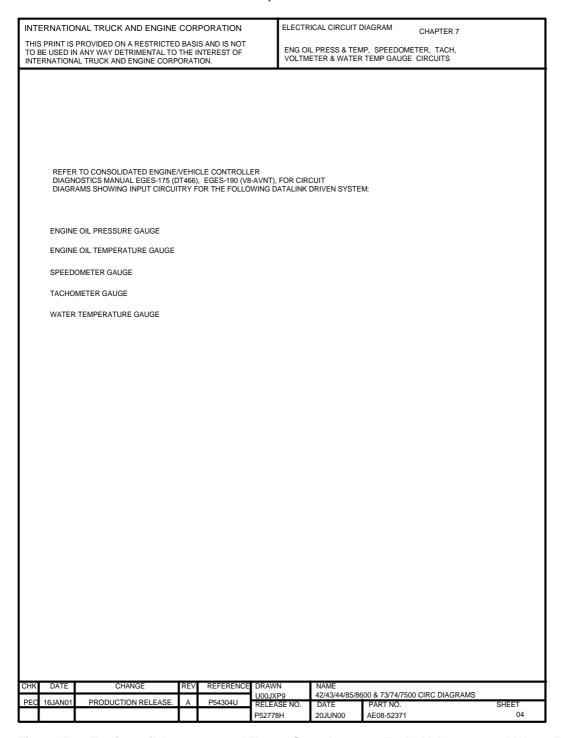


Figure 59 Engine Oil Pressure and Temp, Speedometer, Tach, Voltmeter and Water Temp Gauge Circuits

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

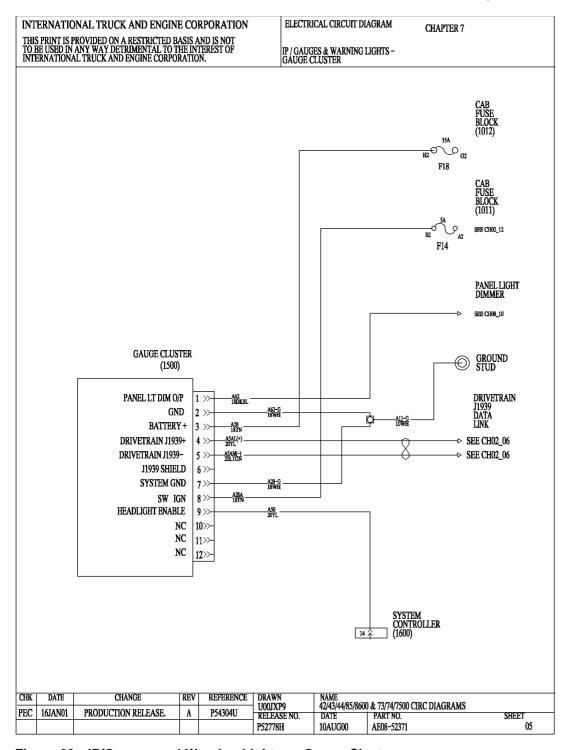


Figure 60 IP/Gauges and Warning Lights — Gauge Cluster

7.6. AIR PRESSURE INPUT CIRCUIT, P. 6

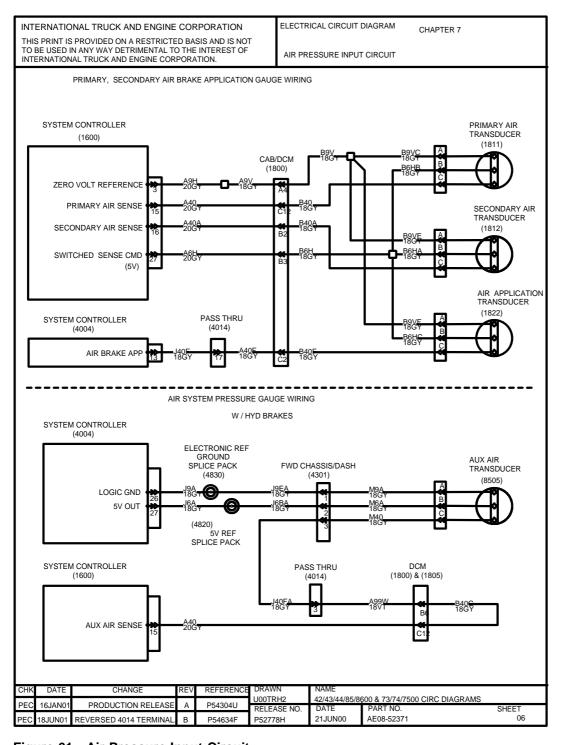


Figure 61 Air Pressure Input Circuit

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

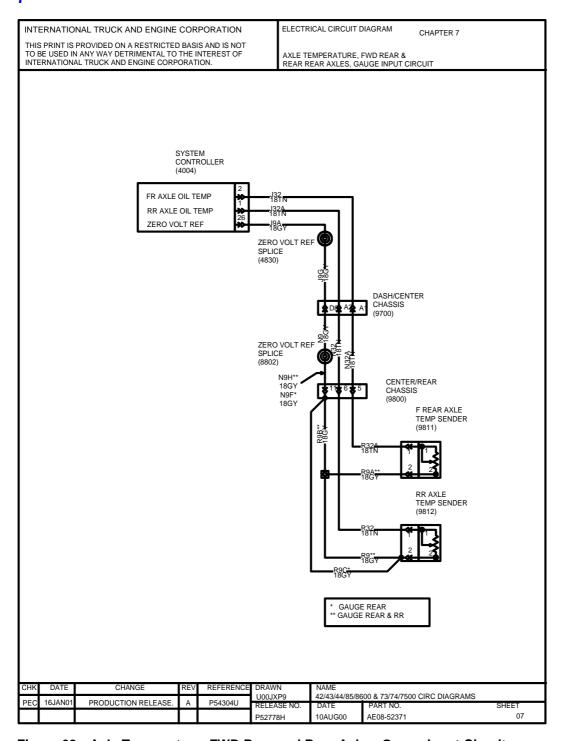


Figure 62 Axle Temperature, FWD Rear and Rear Axles, Gauge Input Circuit

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

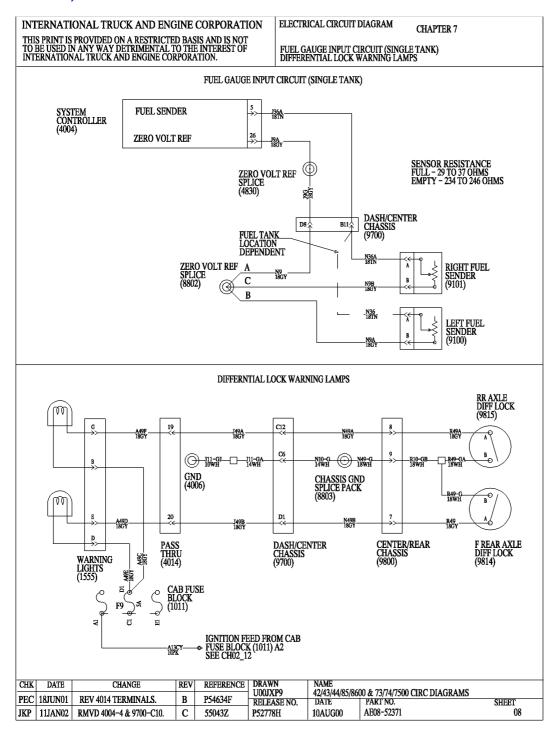


Figure 63 Fuel Gauge Input Circuit (Single Tank) Differential Lock Warning Lamps

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

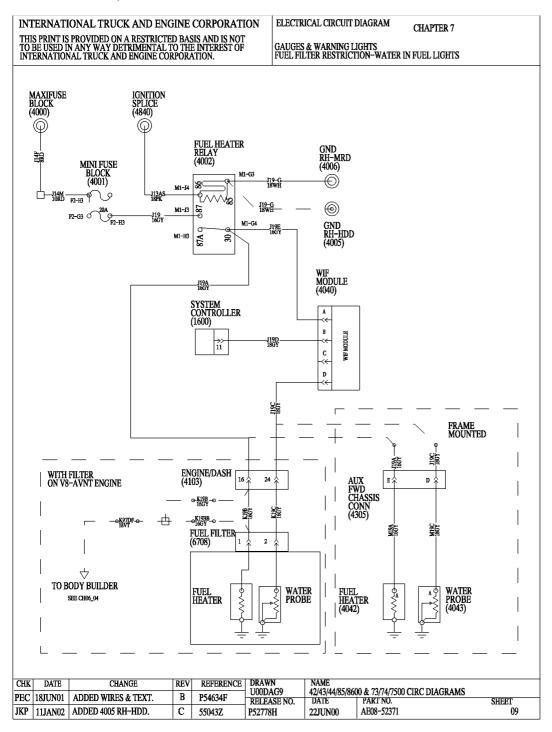


Figure 64 Gauges and Warning Lights — Fuel Filter Restriction and Water in Fuel Lights

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

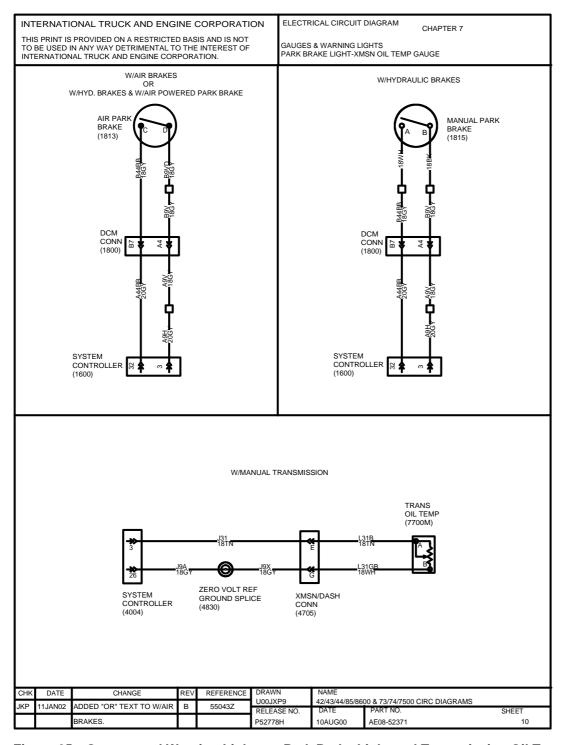


Figure 65 Gauges and Warning Lights — Park Brake Light and Transmission Oil Temp. Gauge

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

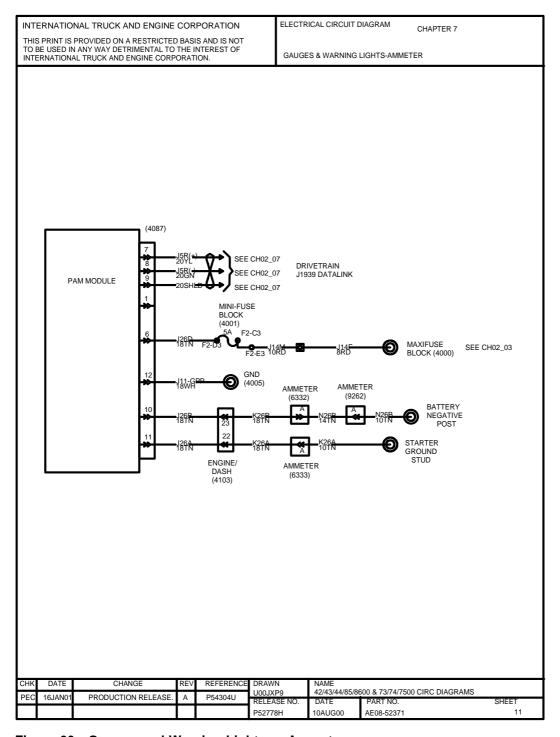


Figure 66 Gauges and Warning Lights — Ammeter

8. LIGHTS (CHAPTER 8)

8.1. BACK UP LIGHTS, P. 1

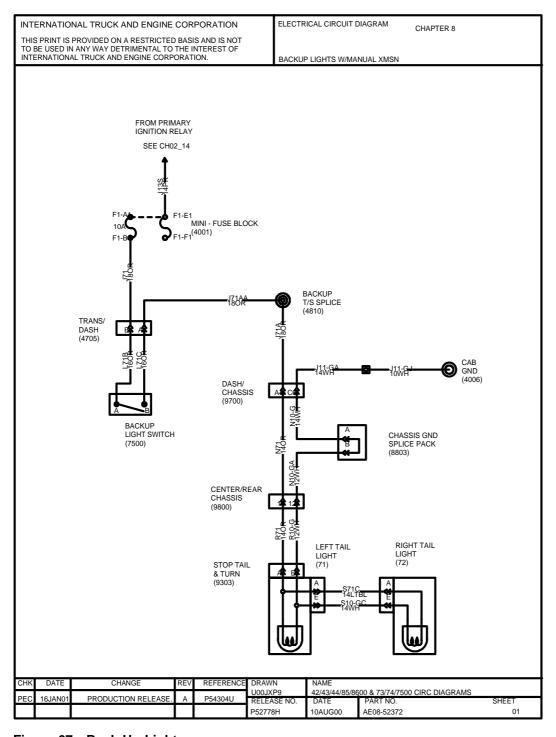


Figure 67 Back Up Lights

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

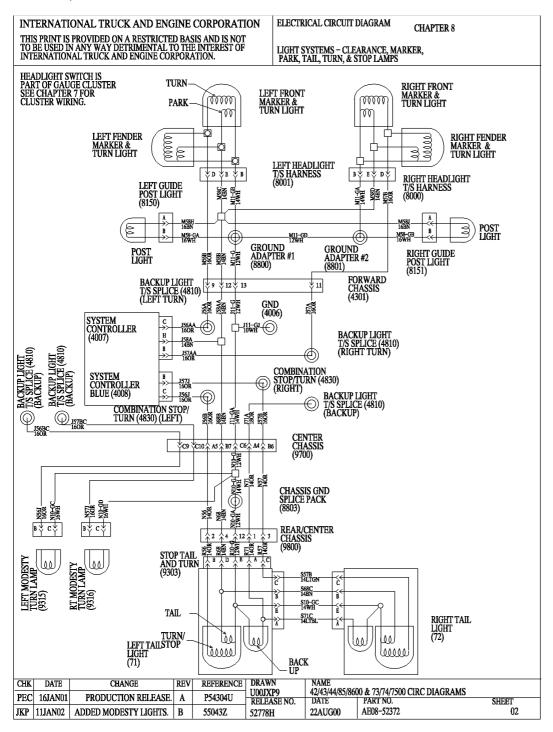


Figure 68 Light Systems — Clearance, Marker, Park, Tail, Turn and Stop Lamps

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

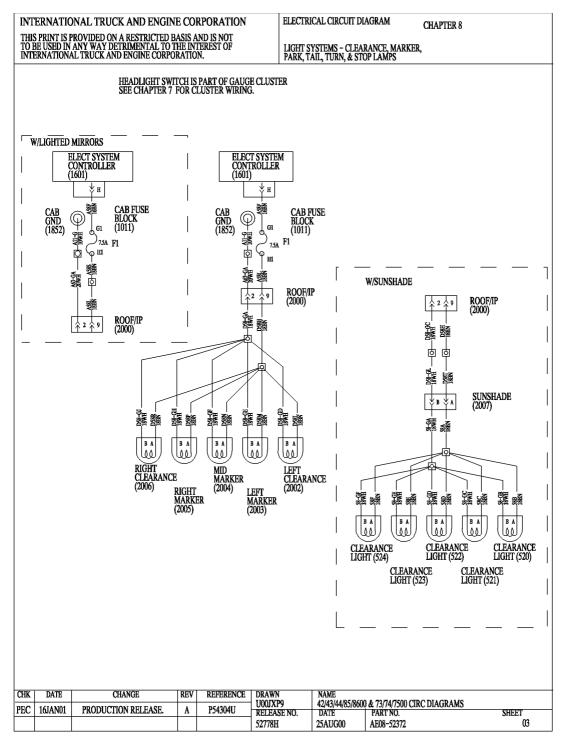


Figure 69 Light Systems — Clearance, Marker, Park, Tail, Turn and Stop Lamps (Cont.)

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

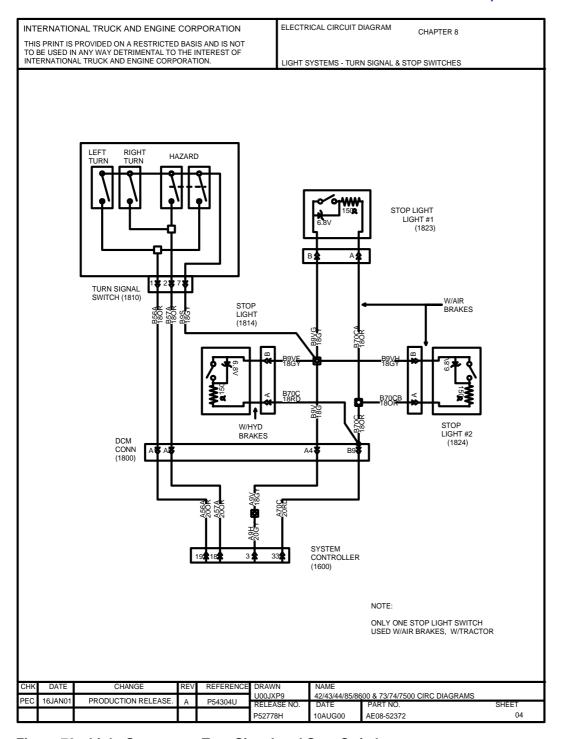


Figure 70 Light Systems — Turn Signal and Stop Switches

8.5. DOME LIGHT, MAP LIGHT, P. 5

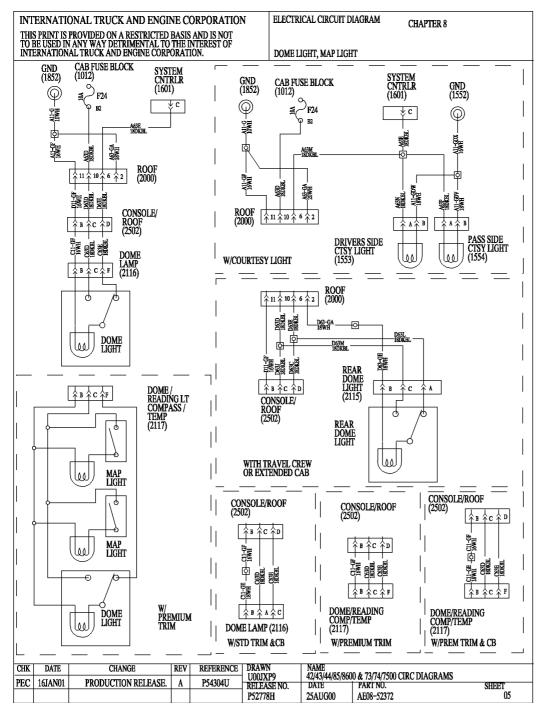


Figure 71 Dome Light, Map Light

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

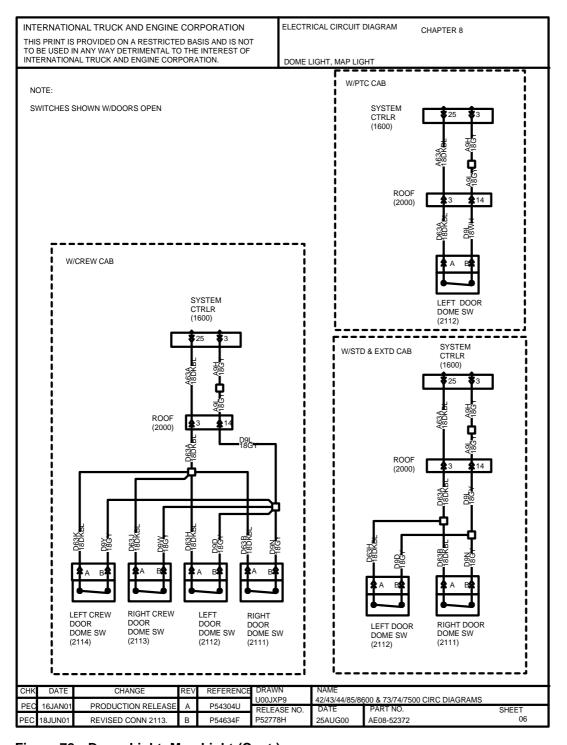


Figure 72 Dome Light, Map Light (Cont.)

8.7. FOG LIGHT AND WORK LIGHT, P. 7

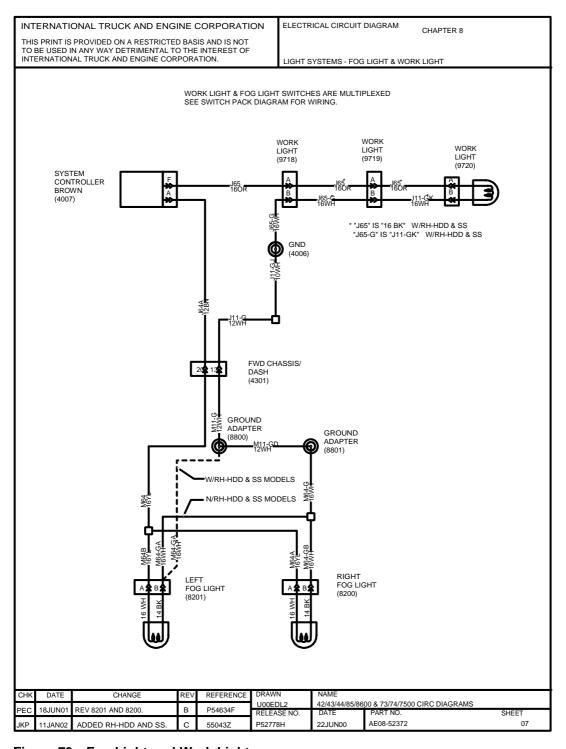


Figure 73 Fog Light and Work Light

8.8. HEADLIGHTS, P. 8

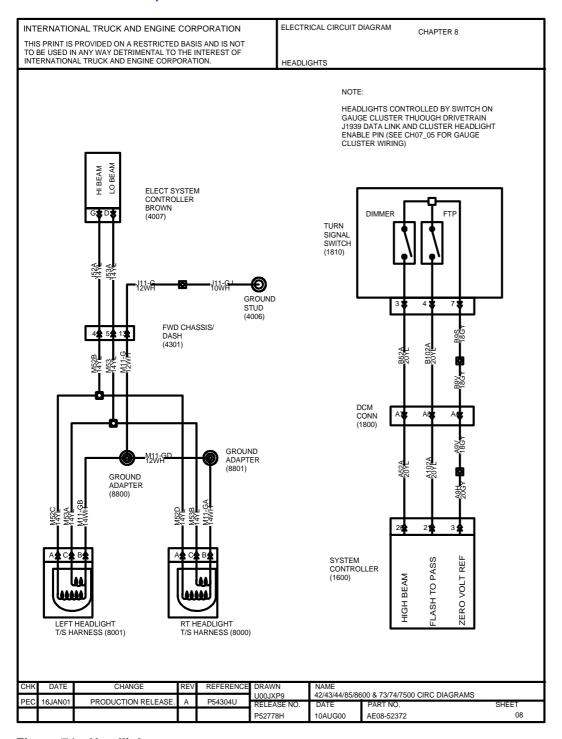


Figure 74 Headlights

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

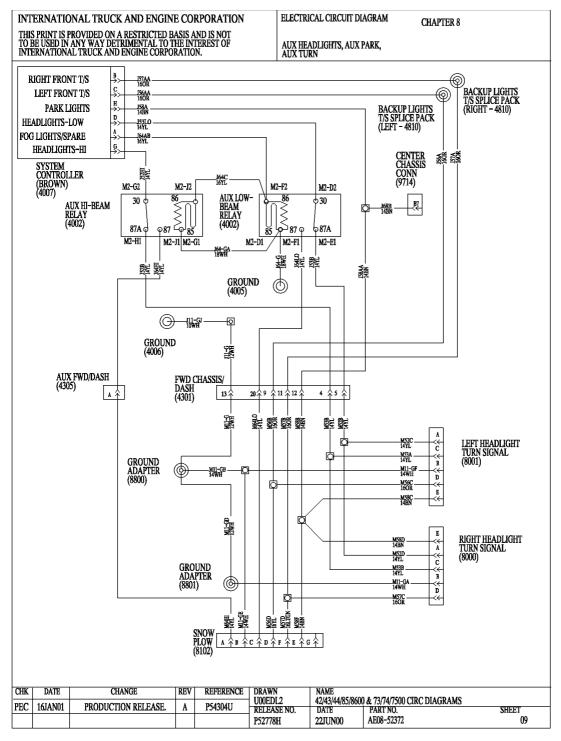


Figure 75 Aux. Headlights, Aux. Park, Aux Turn

8.10. PANEL LIGHTS, P. 10

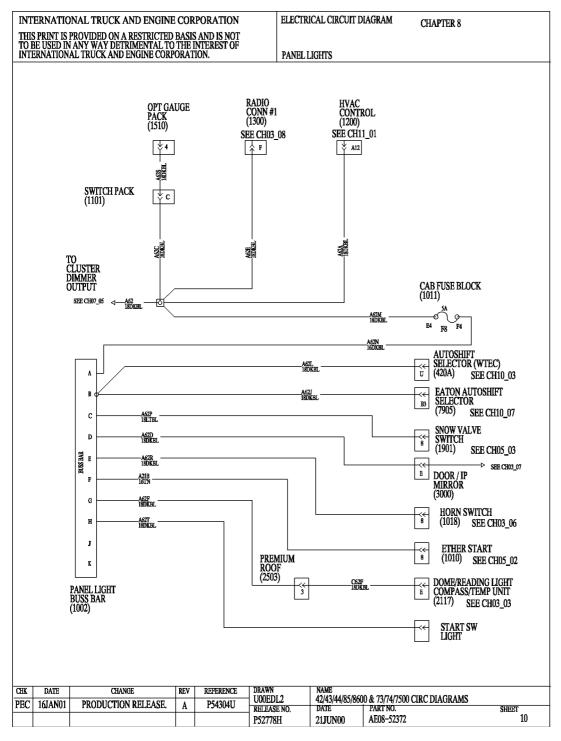


Figure 76 Panel Lights

9. CHASSIS ACCESSORIES (CHAPTER 9)

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

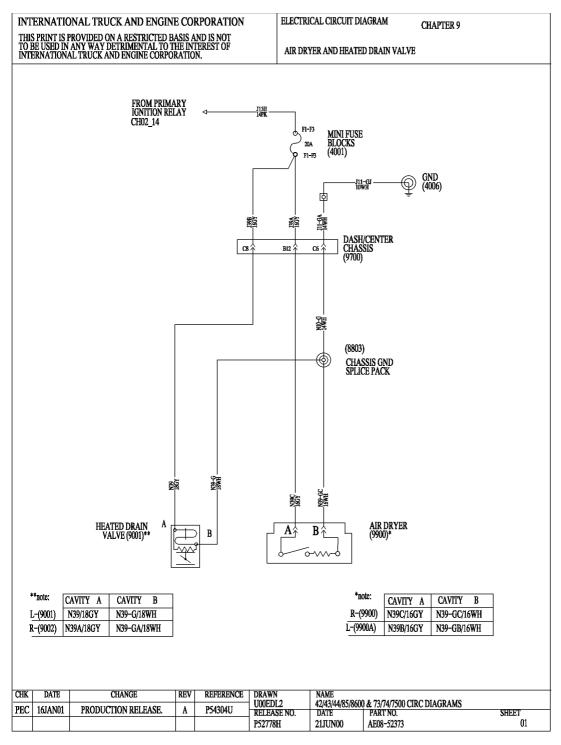


Figure 77 Air Dryer and Heated Drain Valve

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

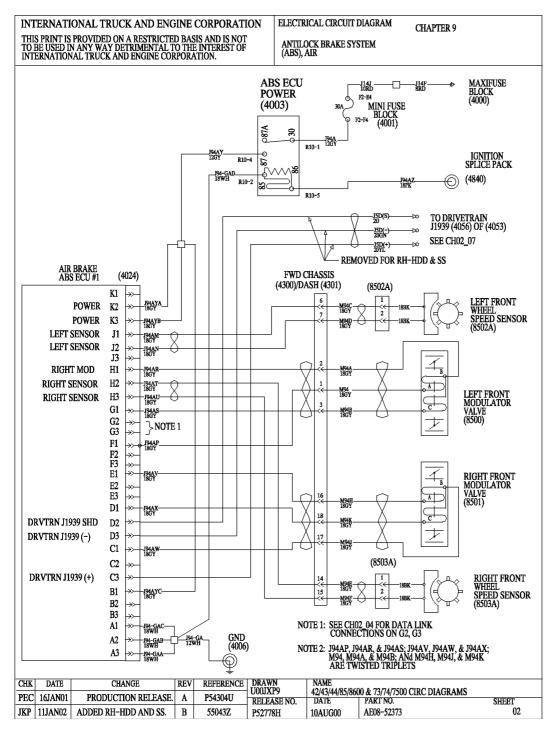


Figure 78 Antilock Brake System (ABS), Air

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

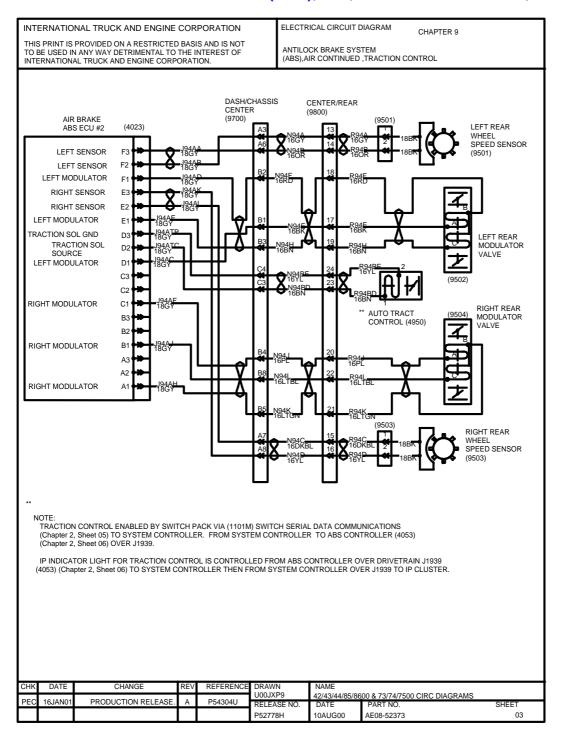


Figure 79 Antilock Brake System (ABS), Air, Traction Control

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

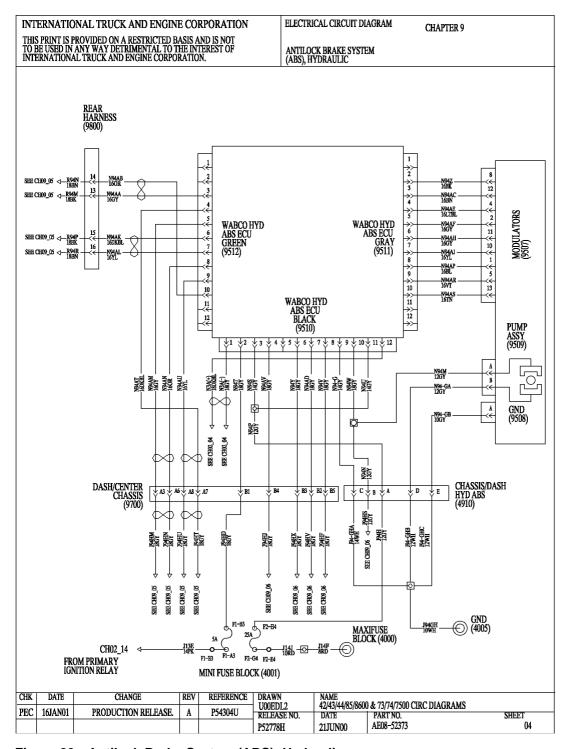


Figure 80 Antilock Brake System (ABS), Hydraulic

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

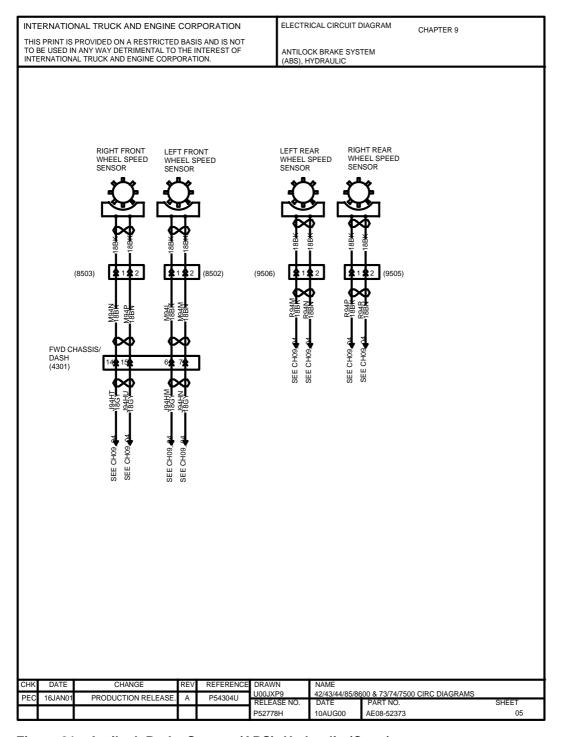


Figure 81 Antilock Brake System (ABS), Hydraulic (Cont.)

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

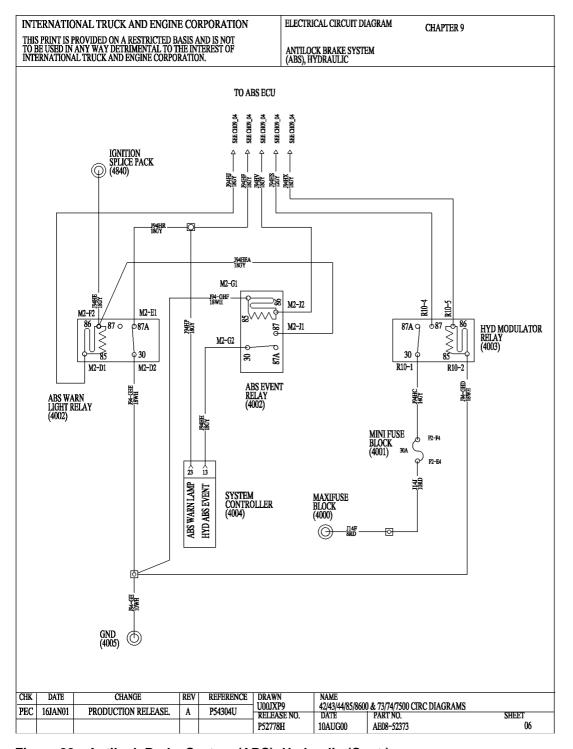


Figure 82 Antilock Brake System (ABS), Hydraulic (Cont.)

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

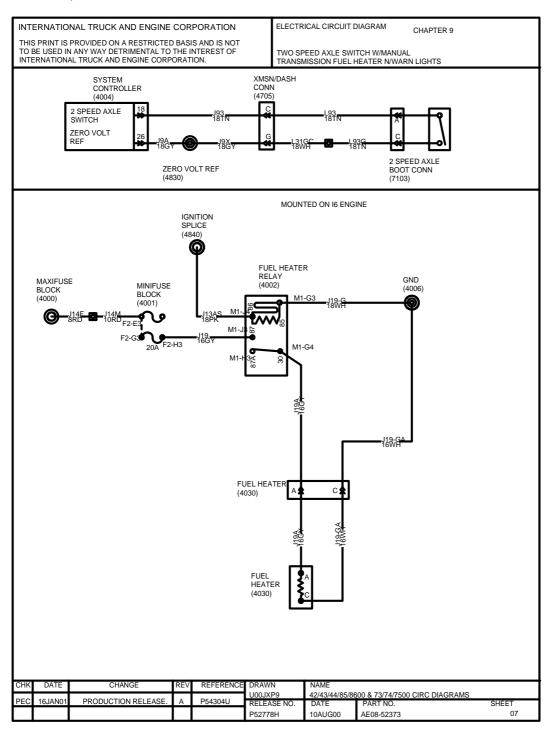


Figure 83 Two Speed Axle Switch W/Manual Transmission Fuel Heater N/Warn Lights

9.8. BRAKE SYSTEM, HYDRAULIC, P. 8

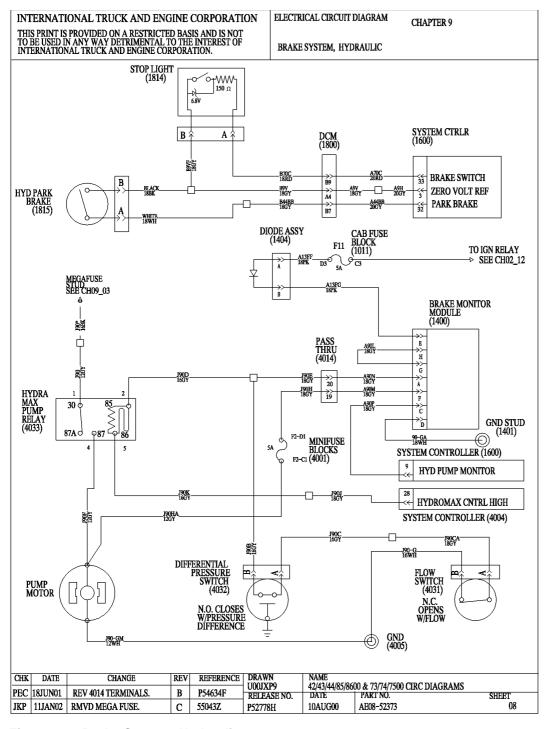


Figure 84 Brake System, Hydraulic

9.9. FUEL TRANSFER PUMP, P. 9

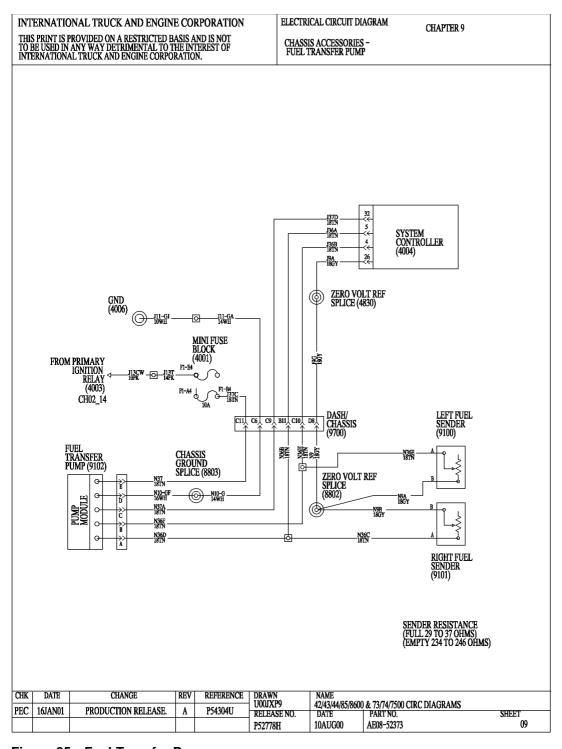


Figure 85 Fuel Transfer Pump

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

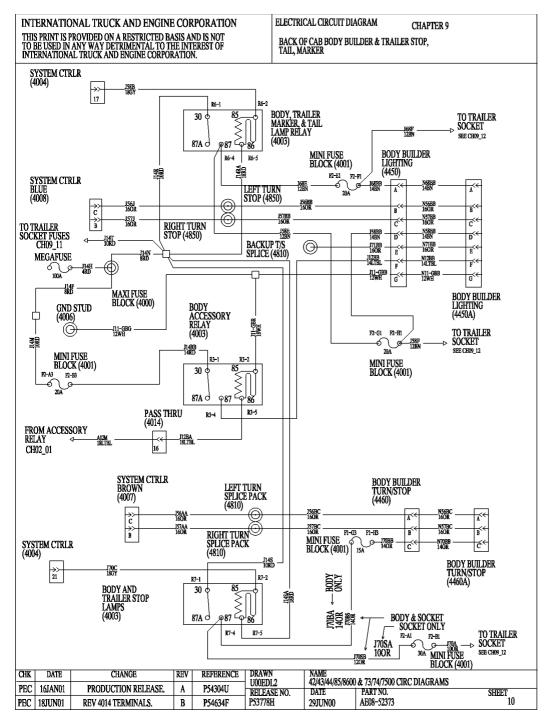


Figure 86 Back of Cab Body Builder and Trailer Stop, Tail, Marker

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

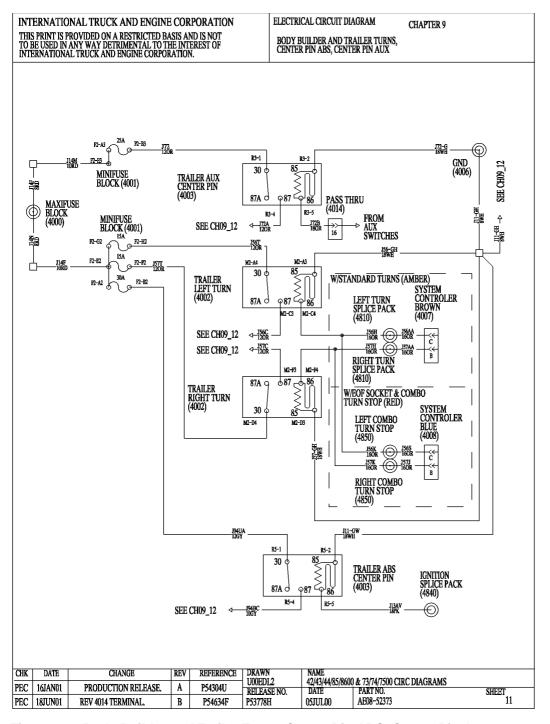


Figure 87 Body Builder and Trailer Turns, Center Pin ABS, Center Pin Aux

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

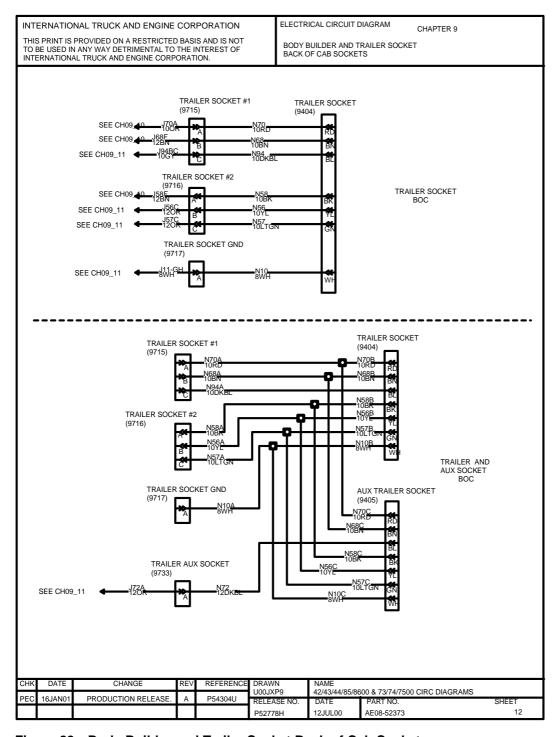


Figure 88 Body Builder and Trailer Socket Back of Cab Sockets

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

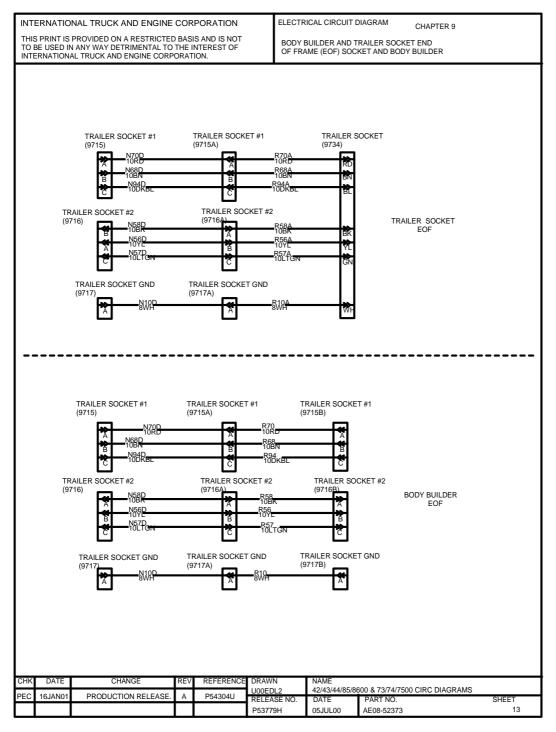


Figure 89 Body Builder and Trailer Socket End of Frame (EOF) Socket and Body Builder

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

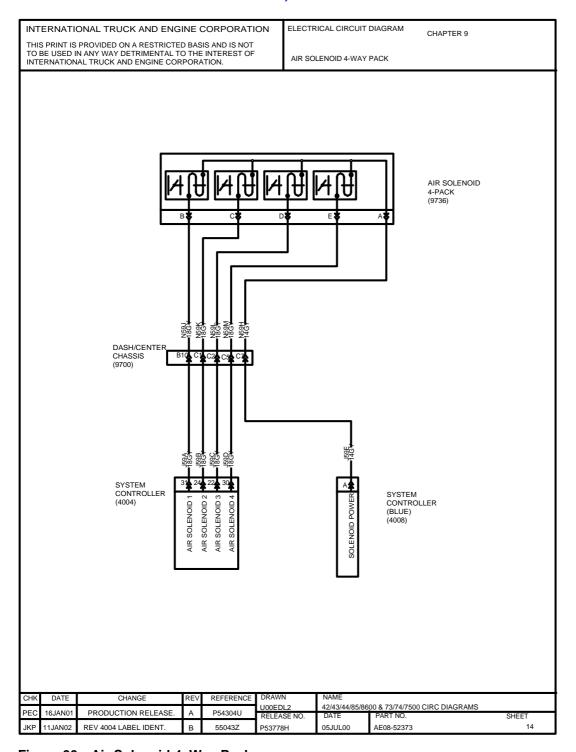


Figure 90 Air Solenoid 4-Way Pack

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

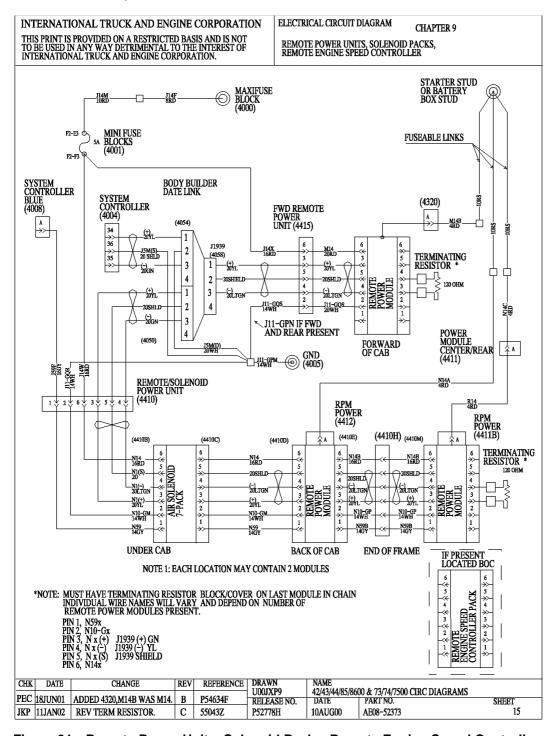


Figure 91 Remote Power Units, Solenoid Packs, Remote Engine Speed Controller

9.16. HYD POWER PARK, P. 16

INTERNATIONAL TRUCK AND ENGINE CORPORATION			ELECTR	ELECTRICAL CIRCUIT DIAGRAM CHAPTER 9		
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.			CHASS	CHASSIS ACCESSORIES - HYD POWER PARK		
DIAGRAM NOT AVAILABLE						
CHK DATE	CHANGE	REV REFERENCE	DRAWN U00EDL2	NAME 42/43/44/85/8	600 & 73/74/7500 CIRC DIAGRAMS	
PEC 16JAN01	PRODUCTION RELEASE.	A P54304U	RELEASE NO. P52778H	DATE 10JUL00	PART NO. AE08-52373	SHEET 16
				.000200		.0

Figure 92 HYD Power Park

9.17. AIR SUSPENSION, P. 17

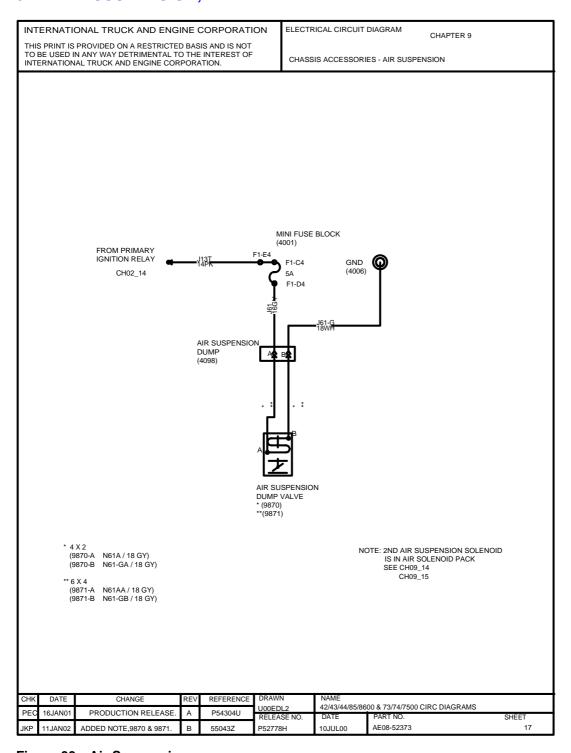


Figure 93 Air Suspension

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

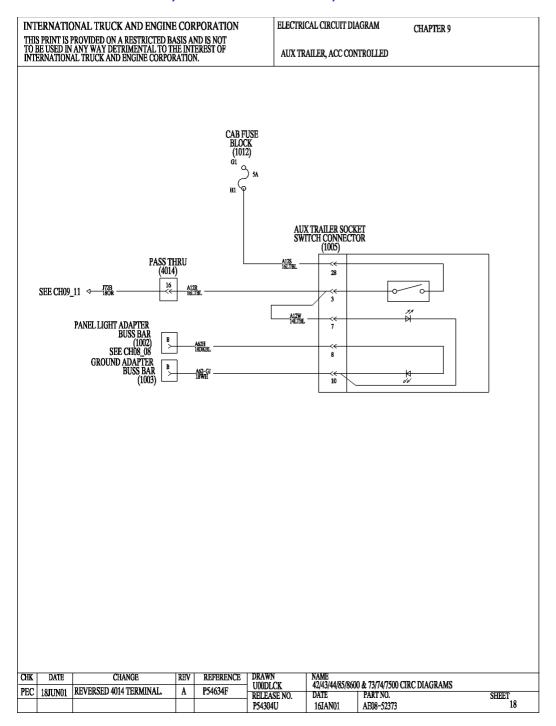


Figure 94 Aux. Trailer, Acc Controlled

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

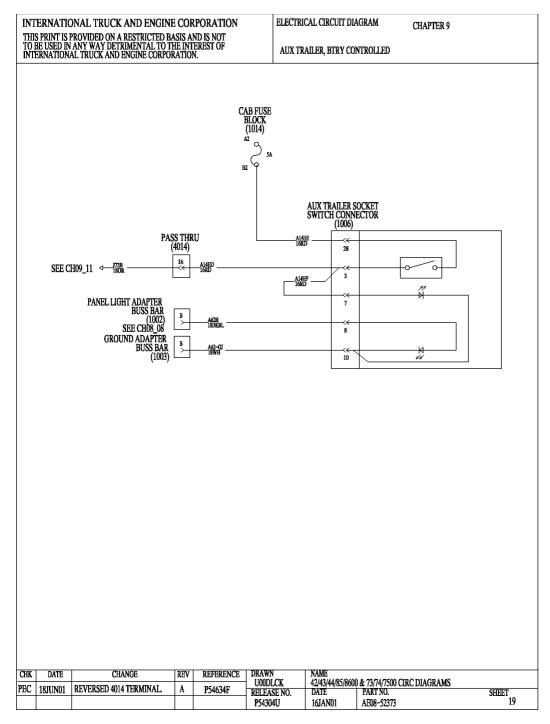


Figure 95 Aux. Trailer, Btry Controlled

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

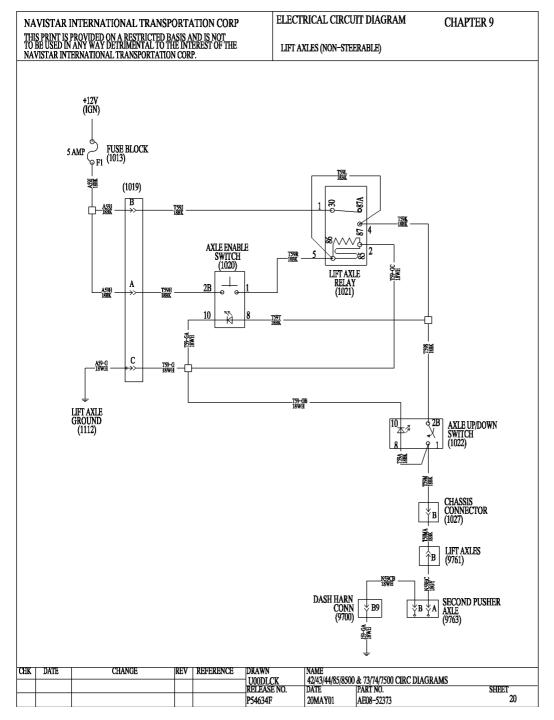


Figure 96 Lift Axles (Non-Steerable)

9.21. LIFT AXLES (STEERABLE), P. 21

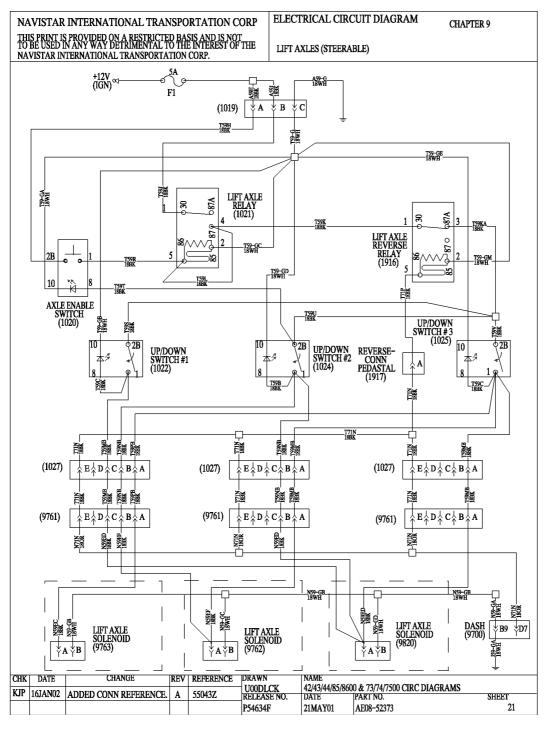


Figure 97 Lift Axles (Non-Steerable)

9.22. AIR ACTUATED PARK BRAKE, P. 22

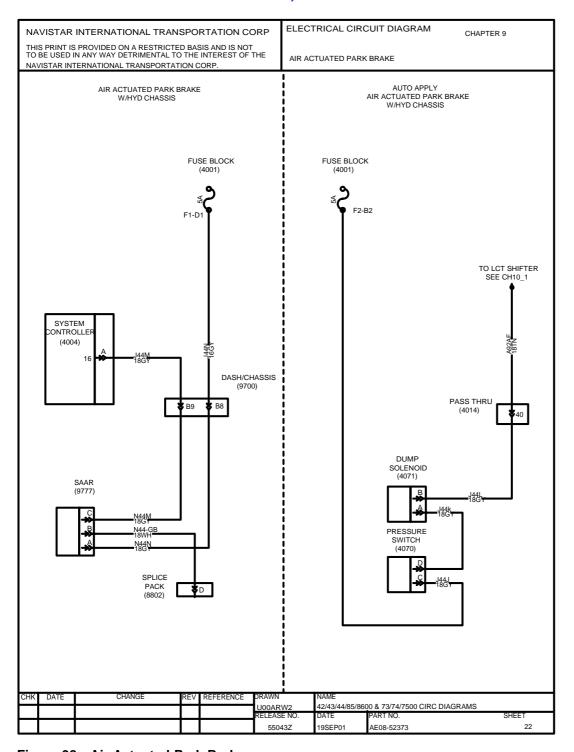


Figure 98 Air Actuated Park Brake

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

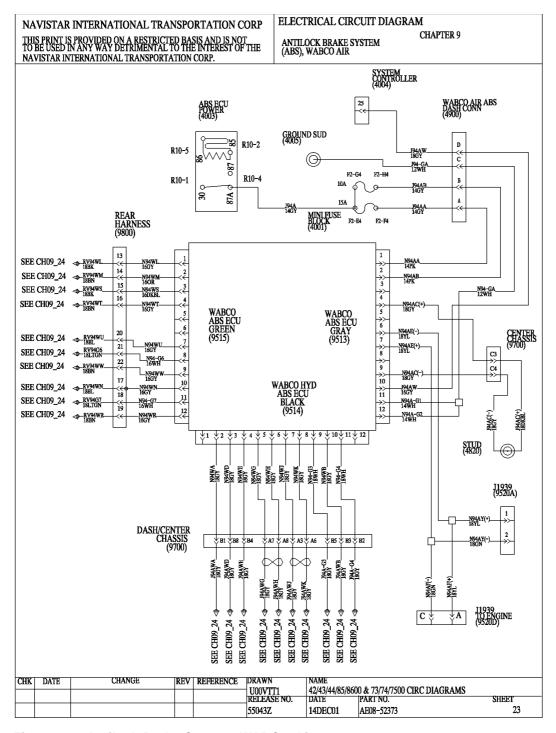


Figure 99 Antilock Brake System, WABCO Air

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

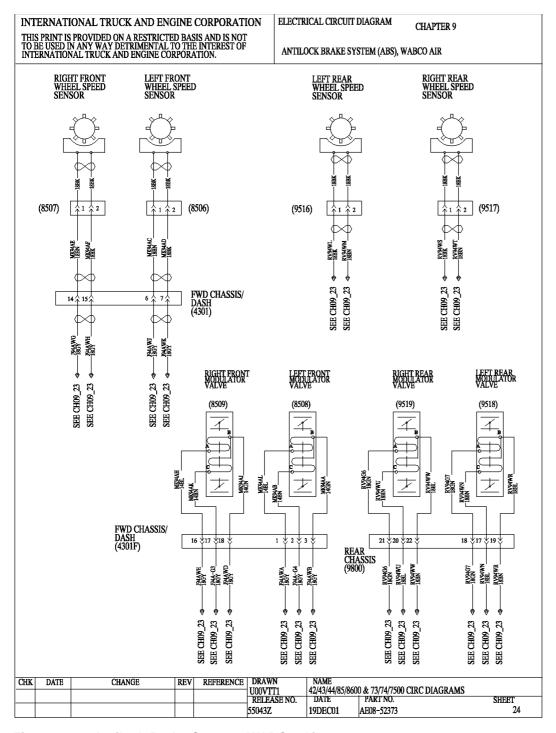


Figure 100 Antilock Brake System, WABCO Air

9.25. LIFT AXLES, WITH MULTIPLES FOR SS MODELS, P. 25

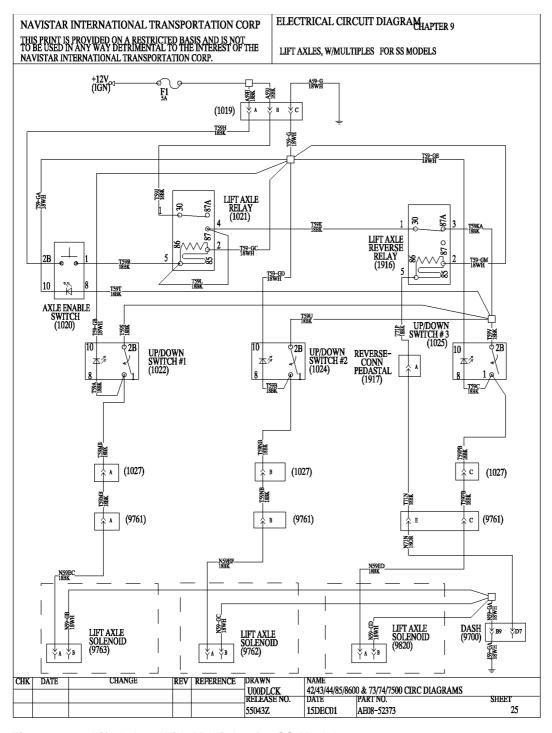


Figure 101 Lift Axles, With Multiples for SS Models

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

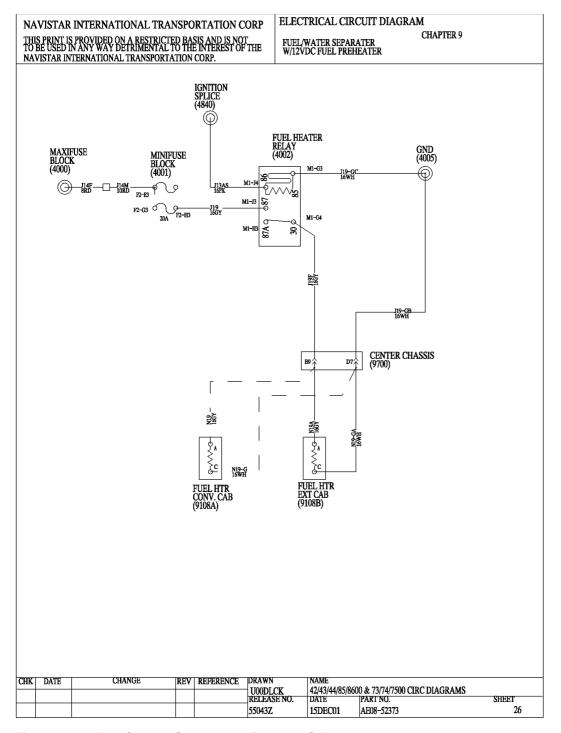


Figure 102 Fuel / Water Separator With 12VDC Fuel Preheater

10. TRANSMISSIONS (CHAPTER 10)

10.1. ALLISON LCT TRANSMISSION, P. 1

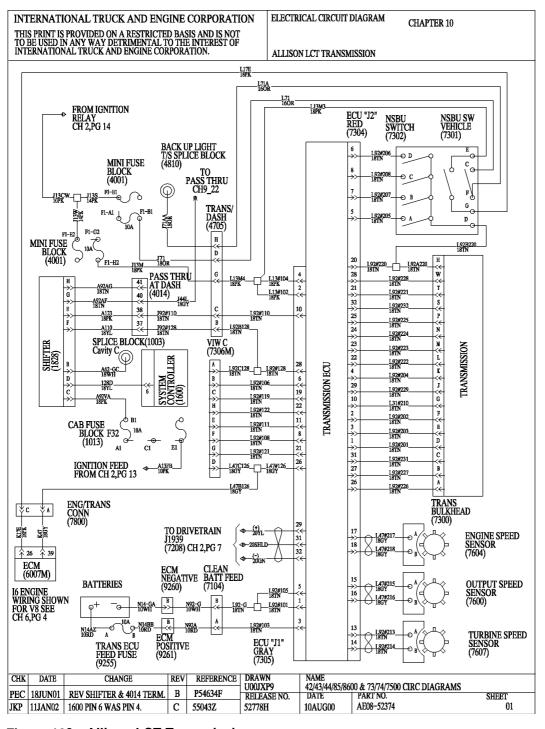


Figure 103 Allison LCT Transmission

10.2. ALLISON MD TRANSMISSION, P. 2

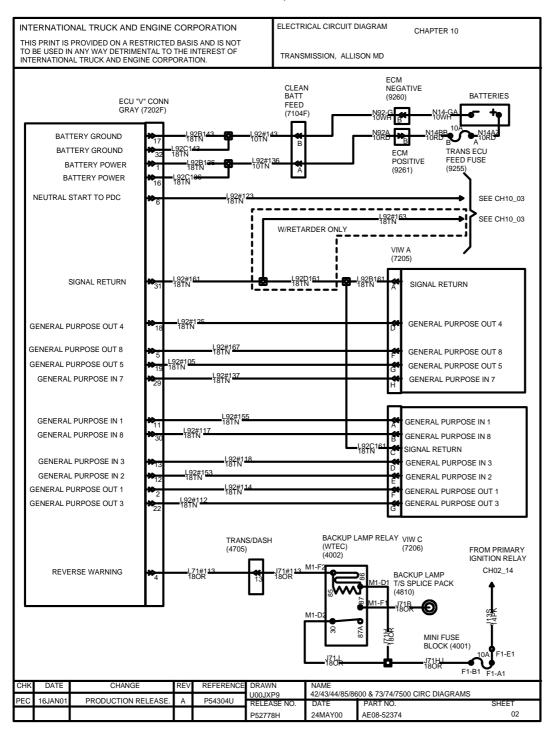


Figure 104 Allison MD Transmission

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

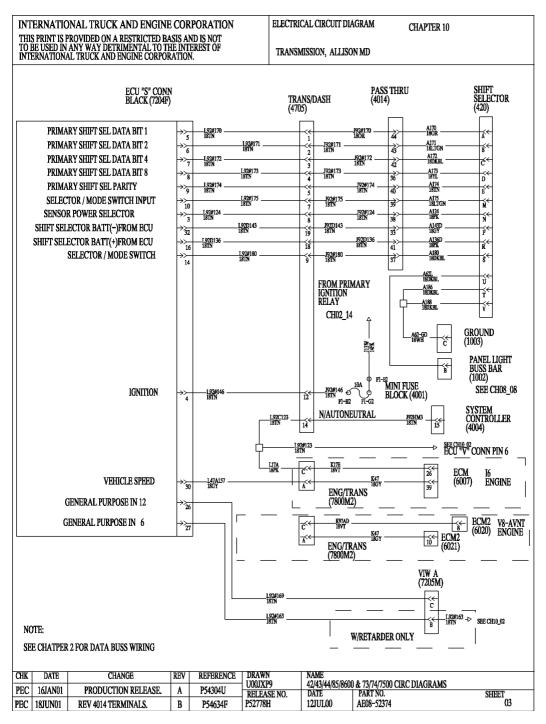


Figure 105 Allison MD Transmission (Cont.)

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

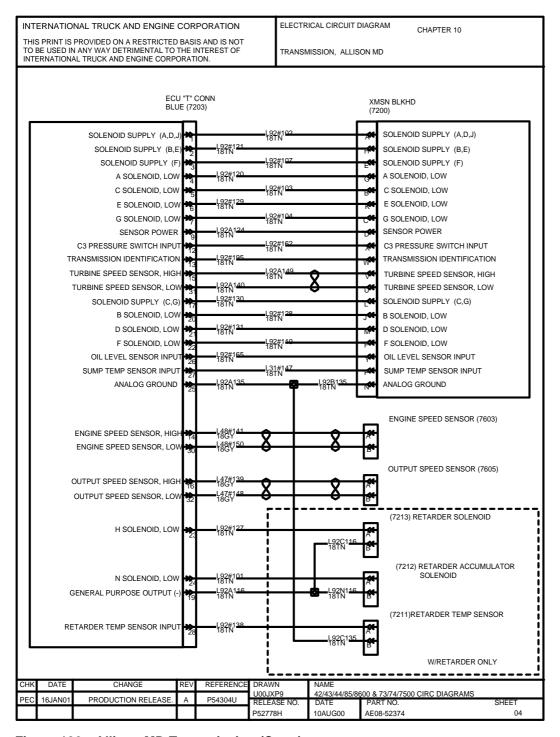


Figure 106 Allison MD Transmission (Cont.)

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

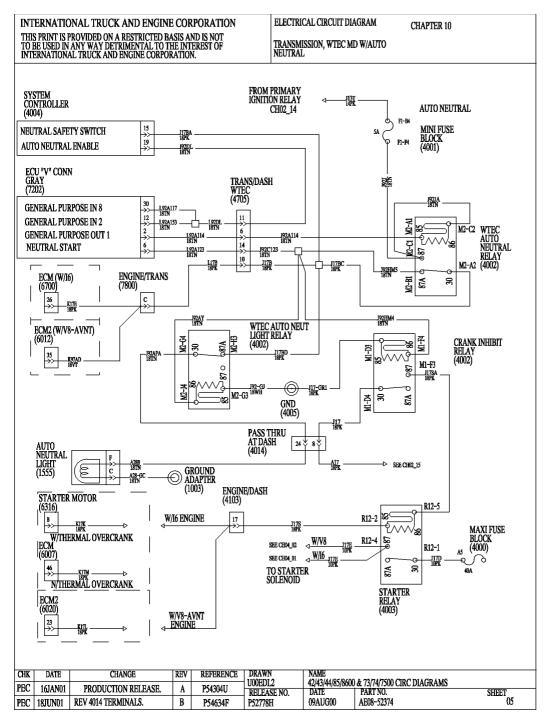


Figure 107 Transmission, WTEC MD W/Auto Neutral

10.6. EATON AUTOSHIFT TRANSMISSION, P. 6

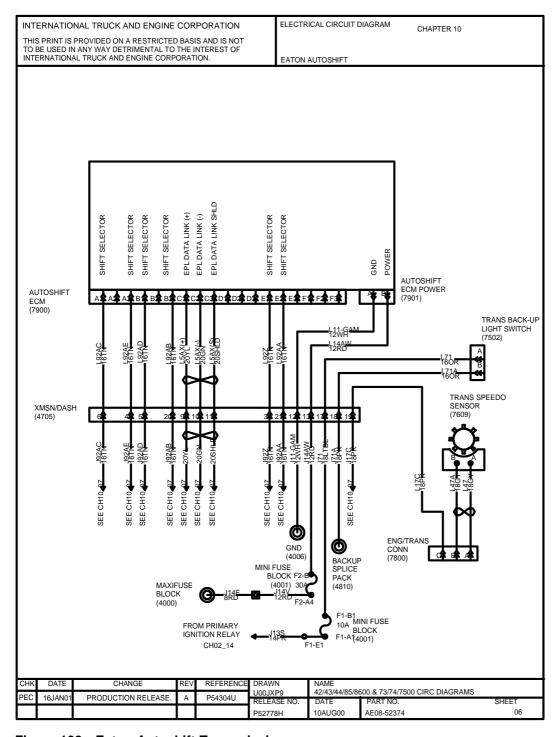


Figure 108 Eaton Autoshift Transmission

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

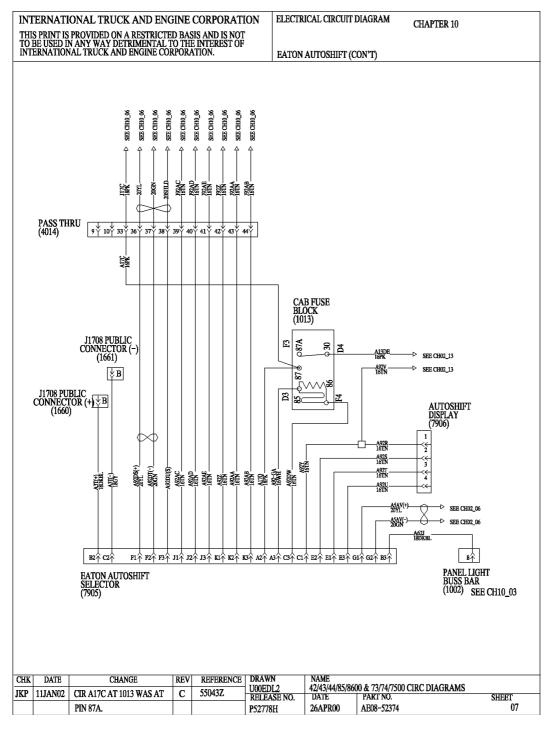


Figure 109 Eaton Autoshift Transmission (Cont.)

10.8. EATON LIGHTNING TRANSMISSION, P. 8

Figure 110 Eaton Autoshift Transmission (Cont.)

11. AIR CONDITIONING (CHAPTER 11)

11.1. HVAC SYSTEMS, P. 1

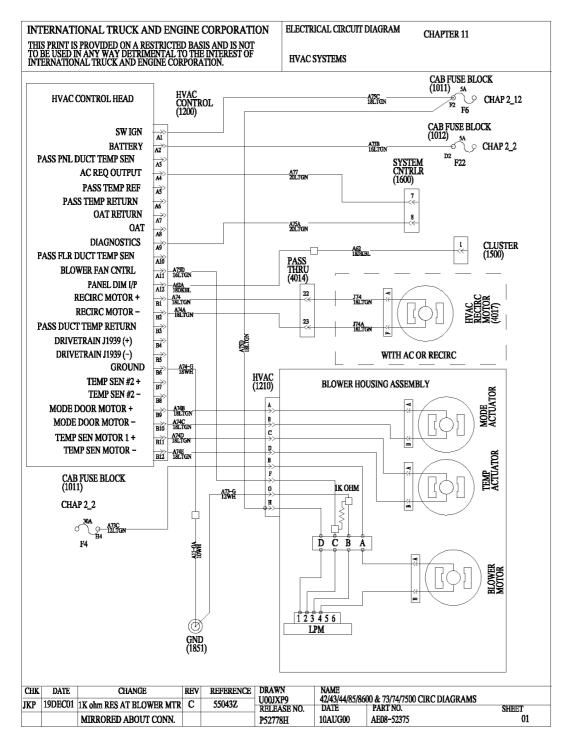


Figure 111 HVAC Systems

11.2. AIR CONDITIONING (ONLY), P. 2

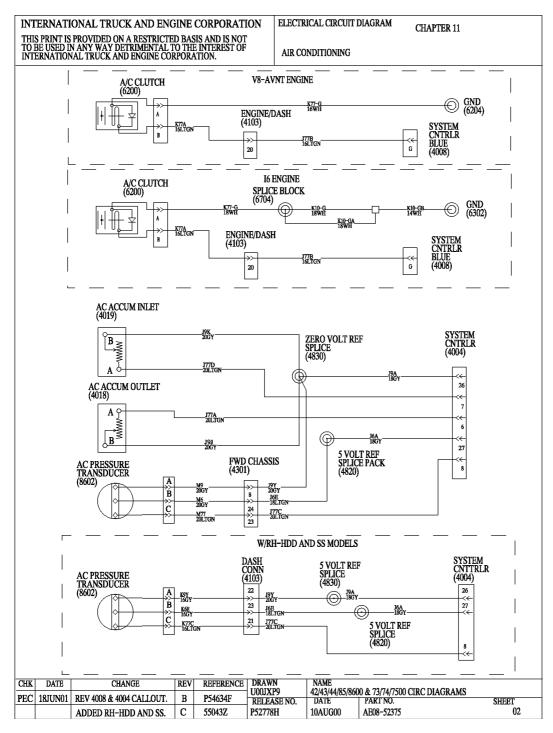


Figure 112 Air Conditioning (Only)