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

7.1. IP/GAUGE LIST, P. 1

EKINATIC	NAL TRUCK AND	ENGINE (COR	PORATION	ELECTF	RICAL CIRCUIT DIAG	RAM	CHARTER 7
BE USED I	PROVIDED ON A REN N ANY WAY DETRIM AL TRUCK AND ENG	ENTAL TO	THE II	NTEREST OF	IP/GAL	JGES		CHAPTER 7
				INSTRUMENT	Γ PANEL GAUGE	S		
G.A	NUGE	WARN		SIGNAL PATH				SENSOR
		LIGHT						LOCATION
RPM (TAC	CH)	NO	_	ENGINE CTRLR/DRIVE TR		TRAIN J1939/CLUSTER		ENGINE
MPH/KPH	(SPD)	NO	\dashv	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 (PI	RES)	YES	\neg	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER				INSIDE CAB - DASH PNL
AIR 2 (PI	AIR 2 (PRES) YES			SYSTEM CTR	LR/DRIVE TRAIN	STEERING COL AREA		
WATER (ТЕМР)	YES	\neg	ENGINE CTRL	R/DRIVE TRAIN	J1939/CLUSTER		ENGINE
ENG OIL	ENG OIL (TEMP) YES			ENGINE CTRL	R/DRIVE TRAIN	ENGINE		
OIL (PRE	OIL (PRES) YES			ENGINE CTRL	R/DRIVE TRAIN	ENGINE		
TRANS (TEMP) YES				XMSN CTRLR	/SYSTEM CTRLF	TRANSMISSION		
AIR APPL	ICATION	NO SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER					FWD CHASSIS	
REAR AX	LE TEMP	YES	П	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER				AXLE
		1						
			ヿ					
			┪					
		1						
			_					
			•					
NOTES	S: RNING LIGHTS ARE I	PART OF TH	HE GA	JUGES AND LOC	ATED IN THE G/	AUGE		
1) WAF	RNING LIGHTS ARE I	Ē.	REV	REFERENCE	DRAWN U00JXP9	NAME 42/43/44/85/8600 &		
1) WAF	RNING LIGHTS ARE I	Ē.		REFERENCE P54304U	DRAWN	NAME 42/43/44/85/8600 & DATE PA	s 73/74/7500 · RT NO. J8-52371	CIRC DIAGRAMS SHEET 01

Figure 58 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/DRIVE TRAIN J1939/CLUSTER				FUEL FILTER		
FUEL FILTER		SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER					
ENGINE (YELLOW LED) ENGINE (RED LED)		ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER					
BRAKE PRESSURE (10)					SWITCH		
BRAKE FLUID		SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER					
TRAC CTRL		TRUCK ABS CTRLR/DRIVE TRAIN J1939/CLUSTER					
CHECK TRANS	TRANS CTRLR/DRIV						
TRAILER ABS		TRLR ABS CTRLR/DRIVE TRAIN J1939/CLUSTER					
WASHER FLUID	-	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER					
(LEFT TURN)		SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER					
AIR BAG	DISCRETE NOT ON I	DATA BUS			TURN SIG SW		
WATER IN FUEL	SYSTEM CTRLR/DRI	VE TRAIN J1	939/CLUSTER		FUEL FILTER		
COOLANT LEVEL	ENGINE CTRLR/DRI\	ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER					
CHECK ELECT SYS	SYSTEM CTRLR/DRI	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER					
PARK (P)	SYSTEM CTRLR/DRI	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER					
CRUISE	SYSTEM CTRLR/DRI	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER					
ABS	TRUCK CTRLR/DRIV						
(RIGHT TURN)	SYSTEM CTRLR/DRI						
WAIT TO START	ENGINE CTRLR/DRIV						
FASTEN BELTS	SYSTEM CTRLR/DRI	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER					
(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	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER					
AUTO NEUTRAL	DISCRETE NOT ON I	DISCRETE NOT ON DATA BUS					
ALTERNATOR	DISCRETE NOT ON D	DISCRETE NOT ON DATA BUS					
PTO/THROTTLE	SYSTEM CTRLR/DRI	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER					
OPTIMIZED IDLE	DISCRETE NOT ON D	DISCRETE NOT ON DATA BUS					
SNOW VALVE	DISCRETE NOT ON D	DISCRETE NOT ON DATA BUS					
FR AXLE DIFF LOCK	DISCRETE NOT ON D	DISCRETE NOT ON DATA BUS					
RR AXLE DIFF LOCK		DISCRETE NOT ON DATA BUS					
MESSAGE WAIT		DISCRETE NOT ON DATA BUS					
PTO	DISCRETE NOT ON I	DISCRETE NOT ON DATA BUS					
CONVERTER TEMP	DISCRETE NOT ON I	DISCRETE NOT ON DATA BUS					
TOUCHLOC RELEASE		DISCRETE NOT ON DATA BUS					
PARK FLUID	SYSTEM CTRLR/DRI	VE TRAIN					
DATE CHANGE							

Figure 59 Warning Light List

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

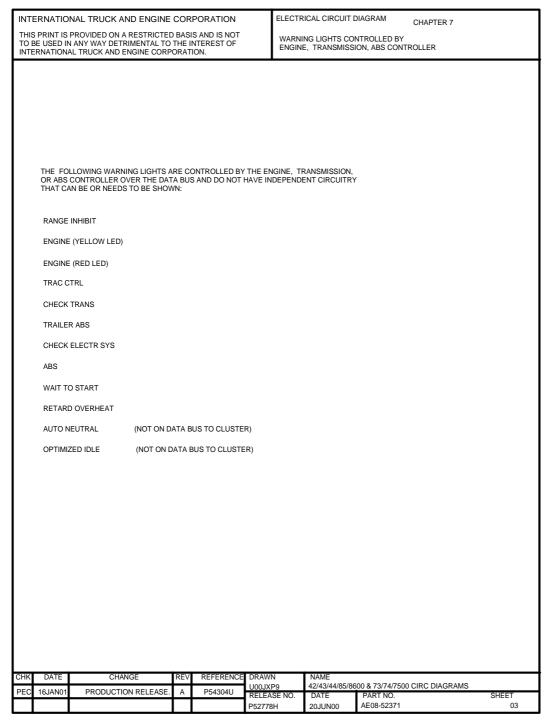


Figure 60 Warning Lights Controlled by Engine, Transmission, ABS Controller

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

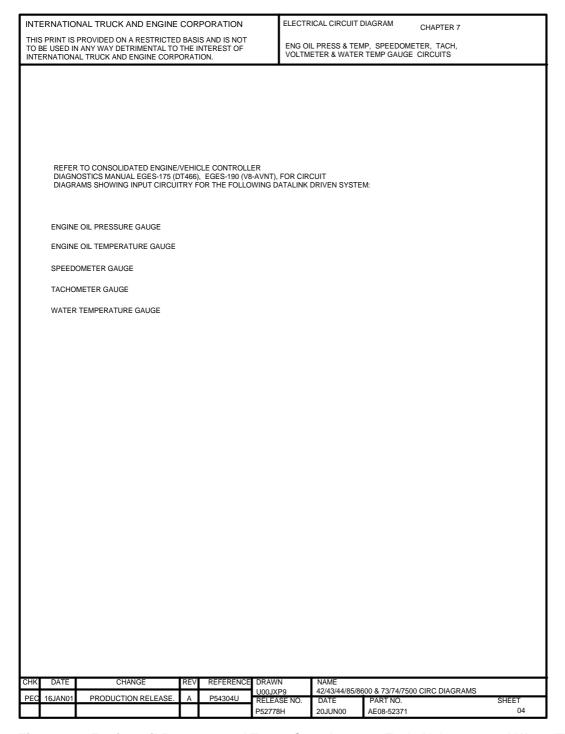


Figure 61 Engine Oil Pressure and Temp, Speedometer, Tach, Voltmeter and Water Temp Gauge Circuits

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

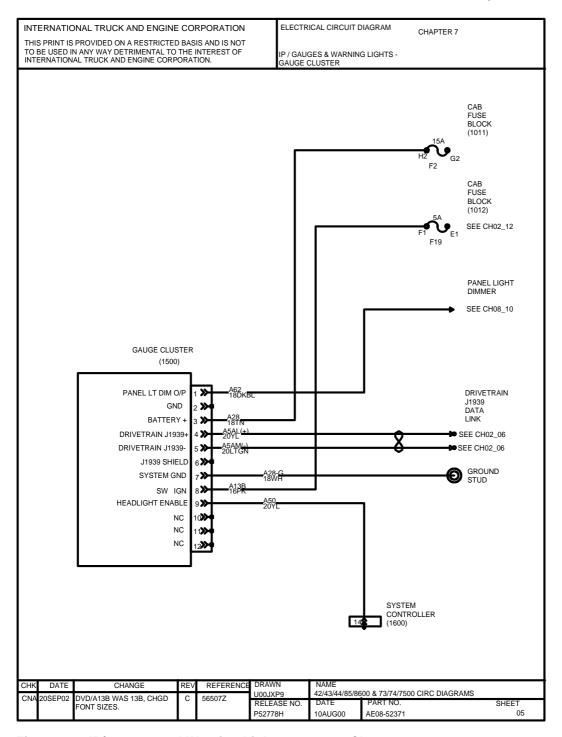


Figure 62 IP/Gauges and Warning Lights — Gauge Cluster

7.6. AIR PRESSURE INPUT CIRCUIT, P. 6

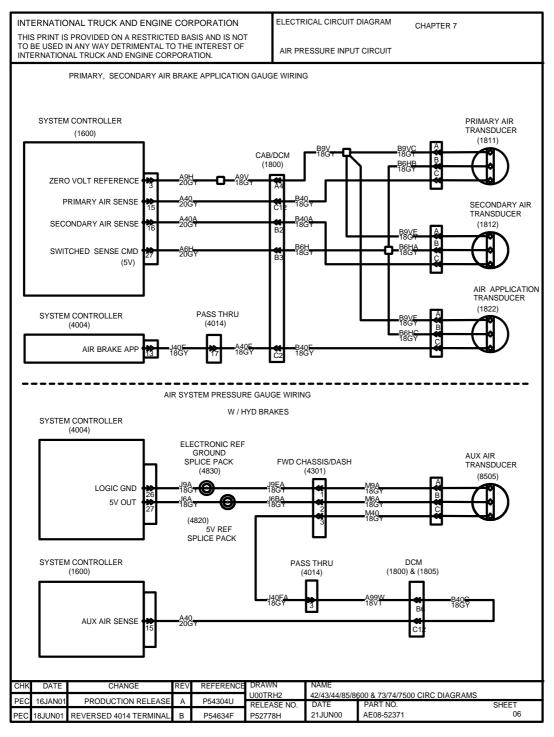


Figure 63 Air Pressure Input Circuit

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

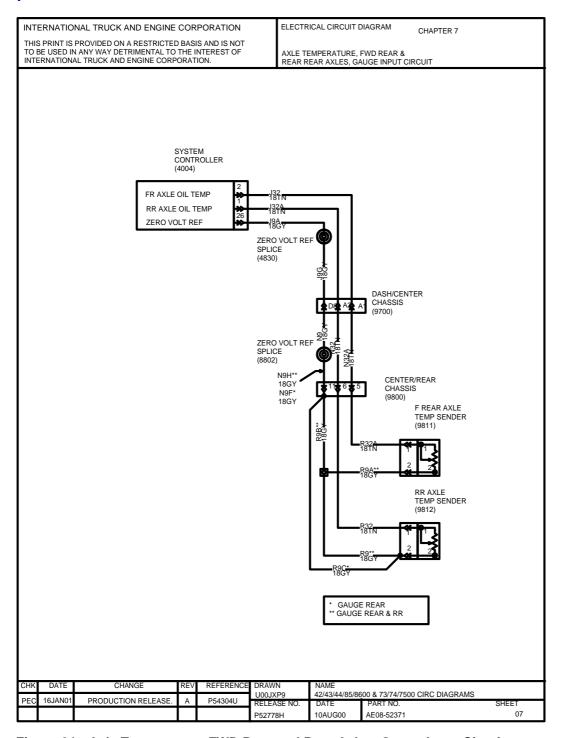


Figure 64 Axle Temperature, FWD Rear and Rear Axles, Gauge Input Circuit

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

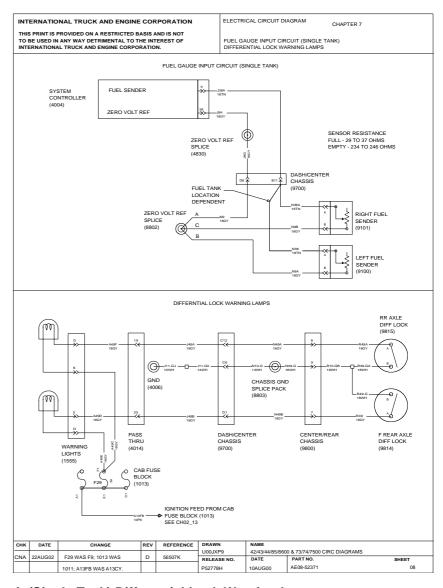


Figure 65 Fuel Gauge Input Circuit (Single Tank) Differential Lock Warning Lamps

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

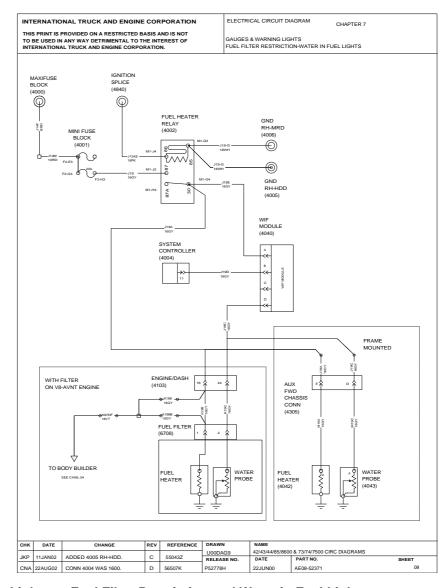


Figure 66 Gauges and Warning Lights — Fuel Filter Restriction and Water in Fuel Lights

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

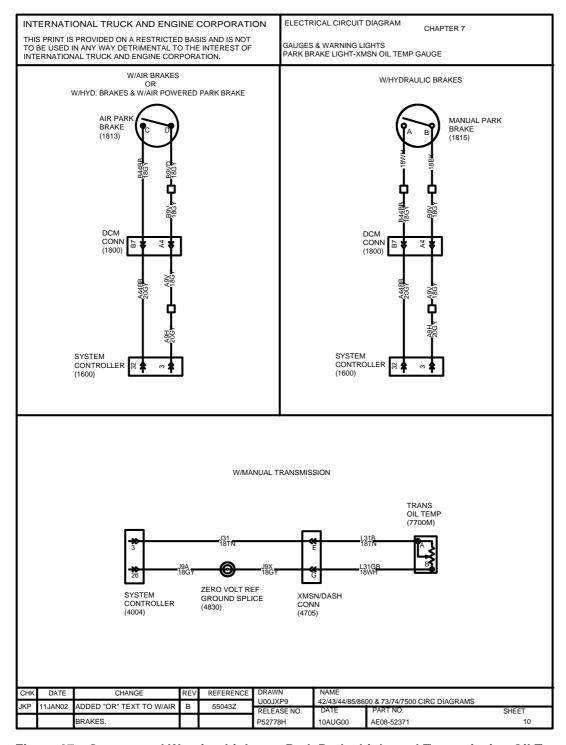


Figure 67 Gauges and Warning Lights — Park Brake Light and Transmission Oil Temp. Gauge

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

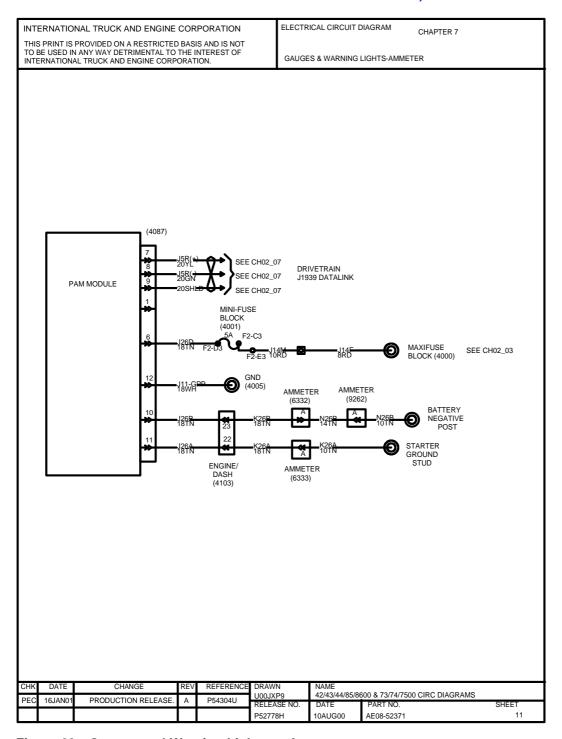


Figure 68 Gauges and Warning Lights — Ammeter

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

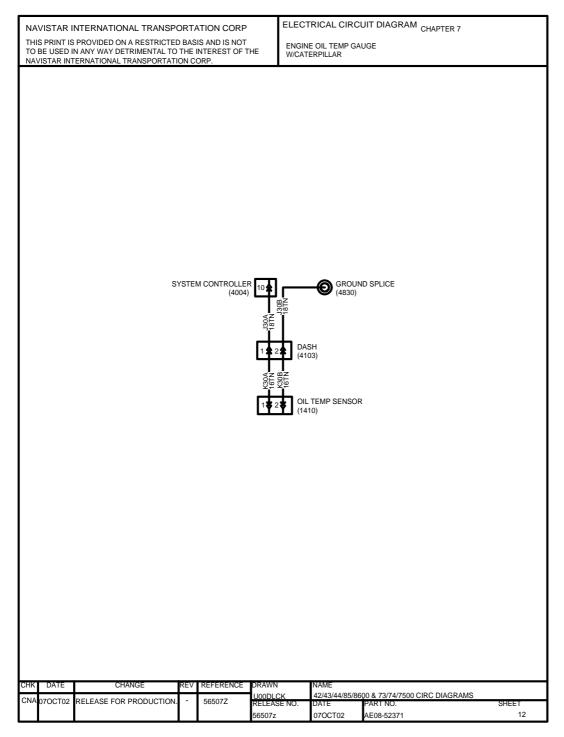


Figure 69 Engine Oil Temperature Gauge With Caterpillar

8. LIGHTS (CHAPTER 8)

8.1. BACK UP LIGHTS, P. 1

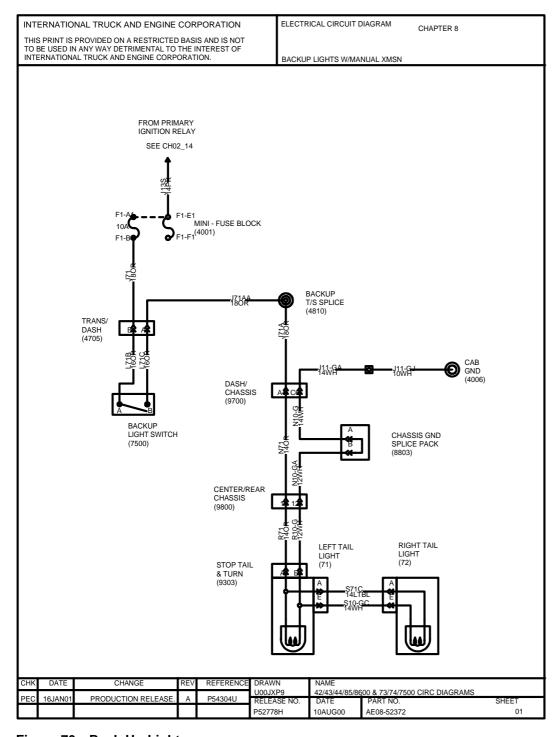


Figure 70 Back Up Lights

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

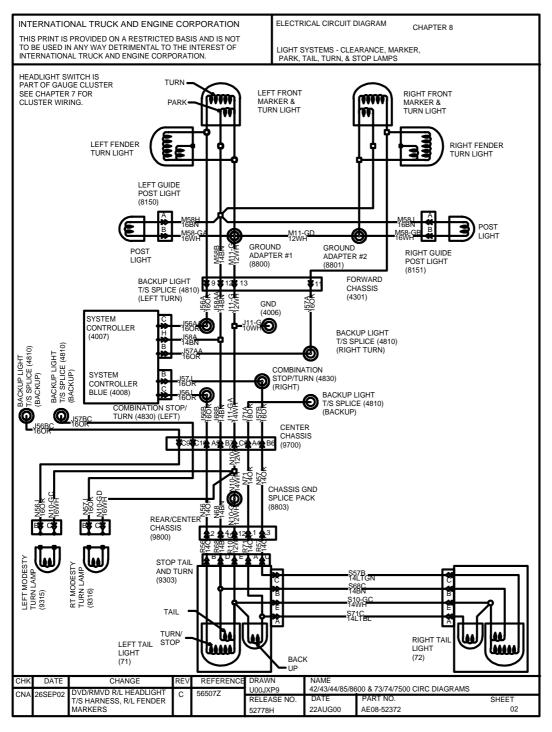


Figure 71 Light Systems — Clearance, Marker, Park, Tail, Turn and Stop Lamps

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

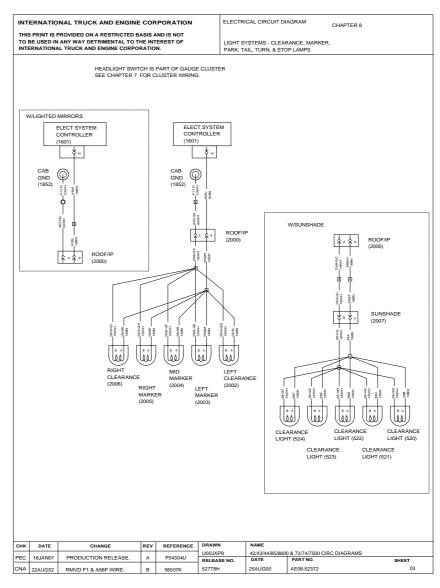


Figure 72 Light Systems — Clearance, Marker, Park, Tail, Turn and Stop Lamps (Cont.)

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

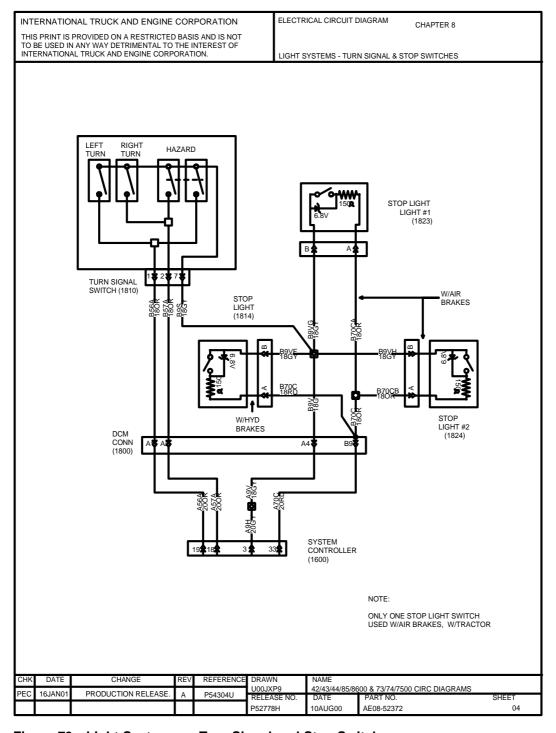


Figure 73 Light Systems — Turn Signal and Stop Switches

8.5. DOME LIGHT, MAP LIGHT, P. 5

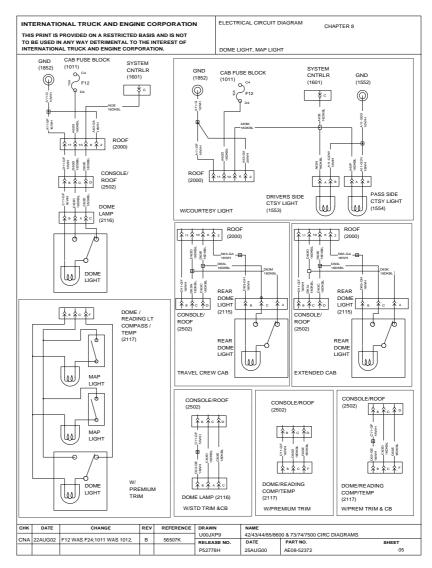


Figure 74 Dome Light, Map Light

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

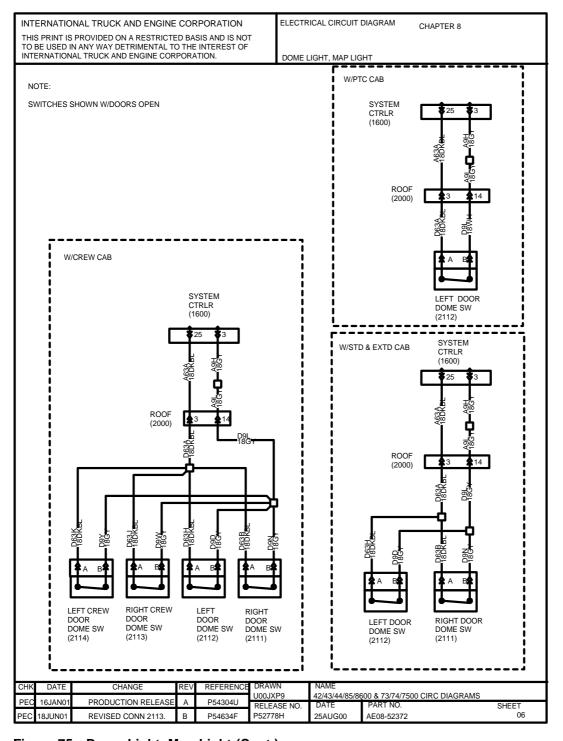


Figure 75 Dome Light, Map Light (Cont.)

8.7. FOG LIGHT AND WORK LIGHT, P. 7

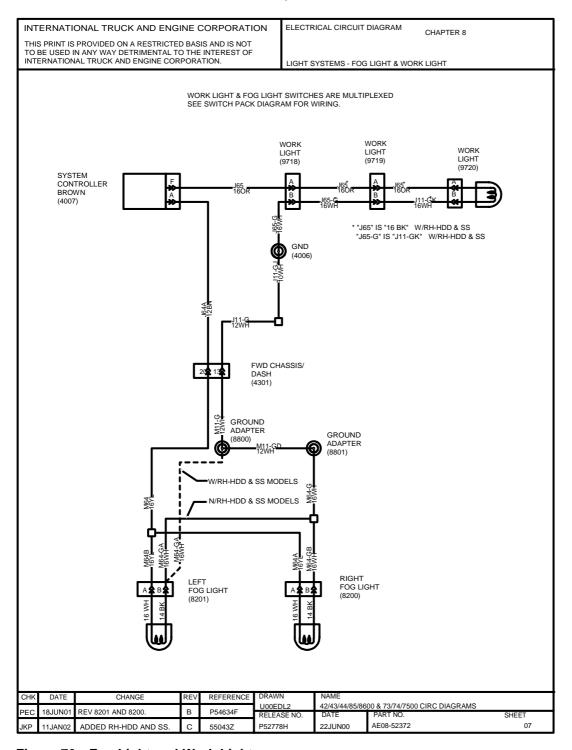


Figure 76 Fog Light and Work Light

8.8. HEADLIGHTS, P. 8

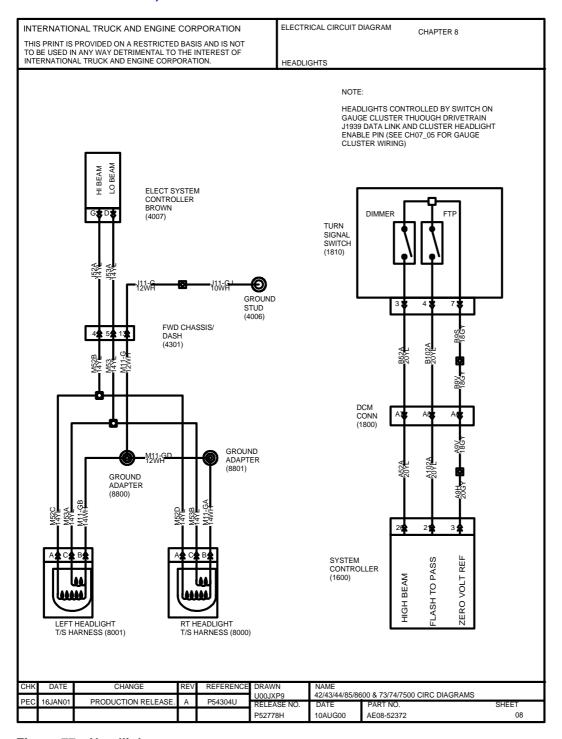


Figure 77 Headlights

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

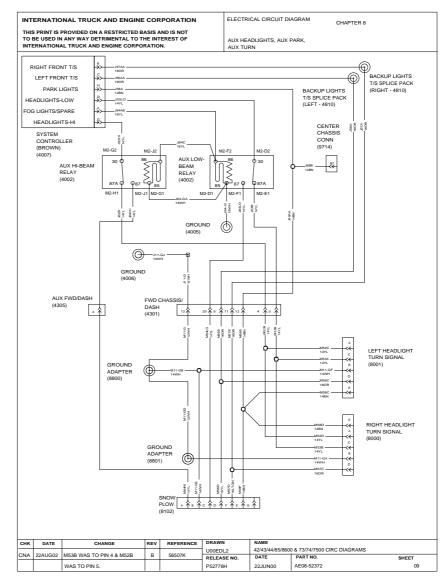


Figure 78 Aux. Headlights, Aux. Park, Aux Turn

8.10. PANEL LIGHTS, P. 10

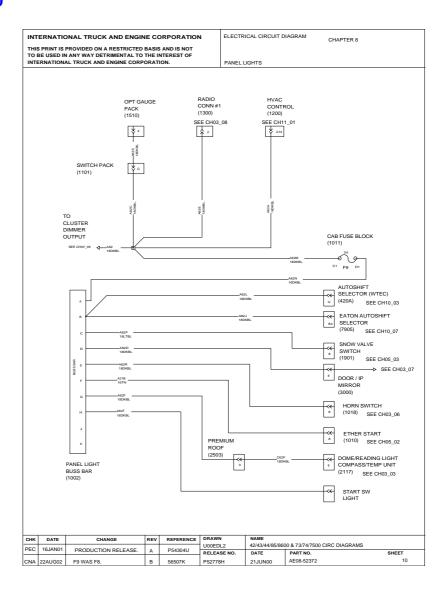


Figure 79 Panel Lights

9. CHASSIS ACCESSORIES (CHAPTER 9)

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

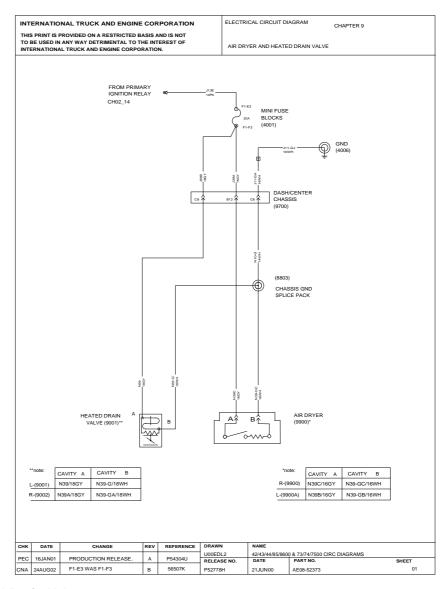


Figure 80 Air Dryer and Heated Drain Valve

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

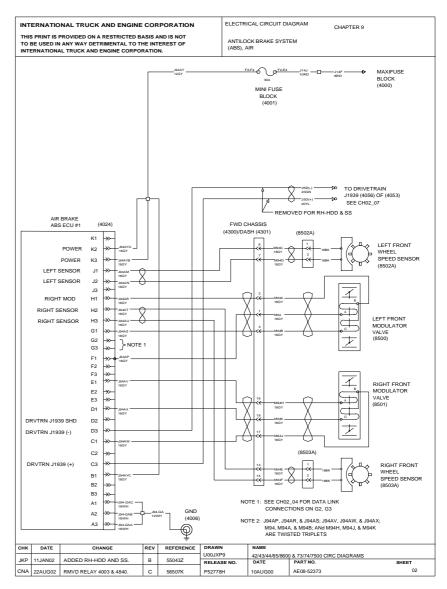


Figure 81 Antilock Brake System (ABS), Air

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

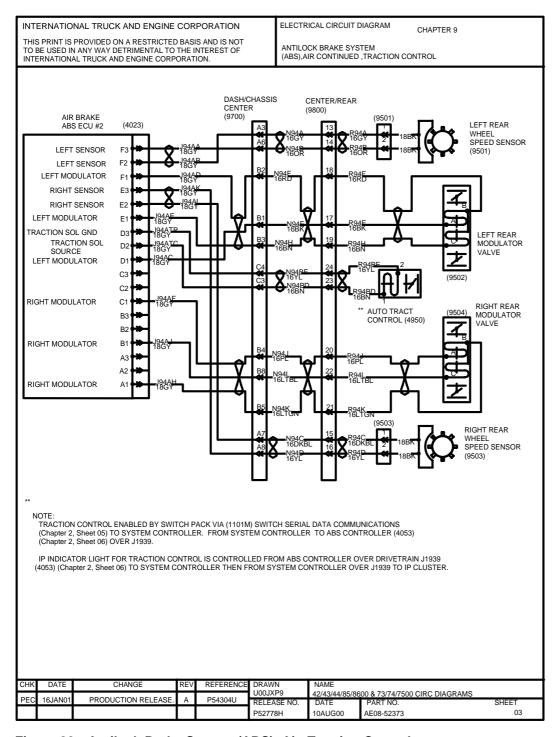


Figure 82 Antilock Brake System (ABS), Air, Traction Control

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

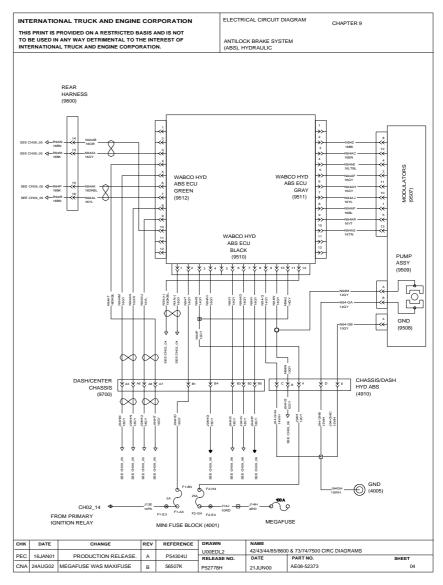


Figure 83 Antilock Brake System (ABS), Hydraulic

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

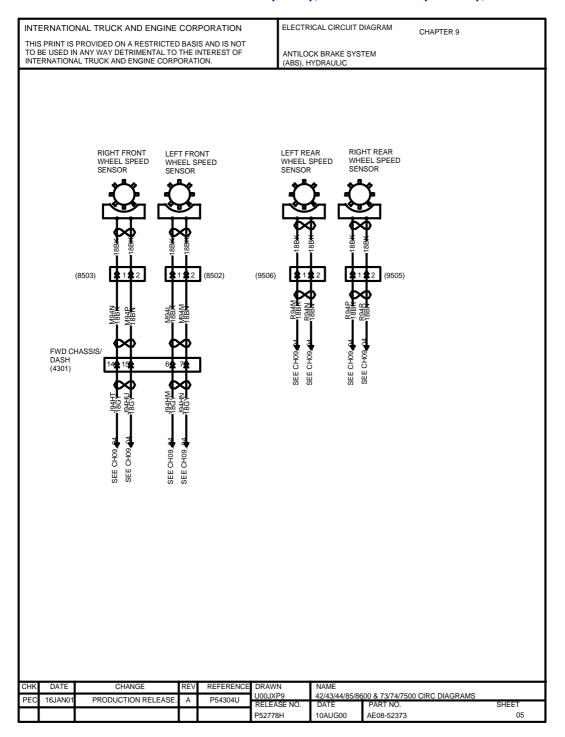


Figure 84 Antilock Brake System (ABS), Hydraulic (Cont.)

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

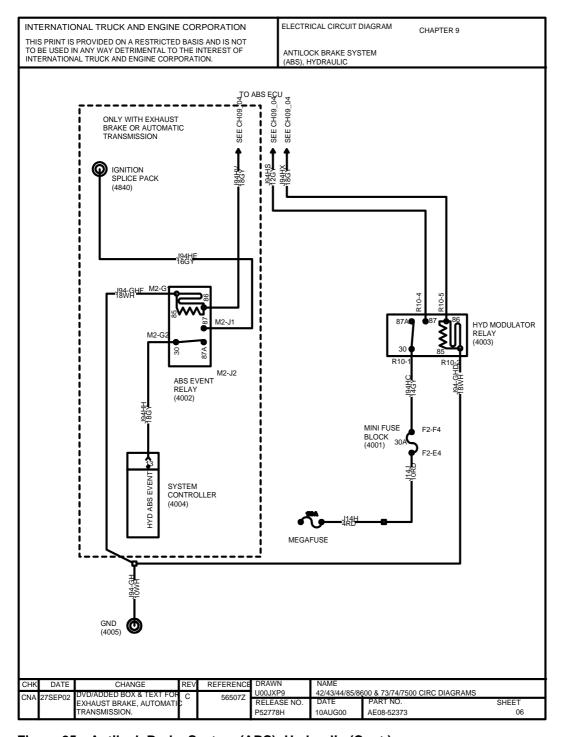


Figure 85 Antilock Brake System (ABS), Hydraulic (Cont.)

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

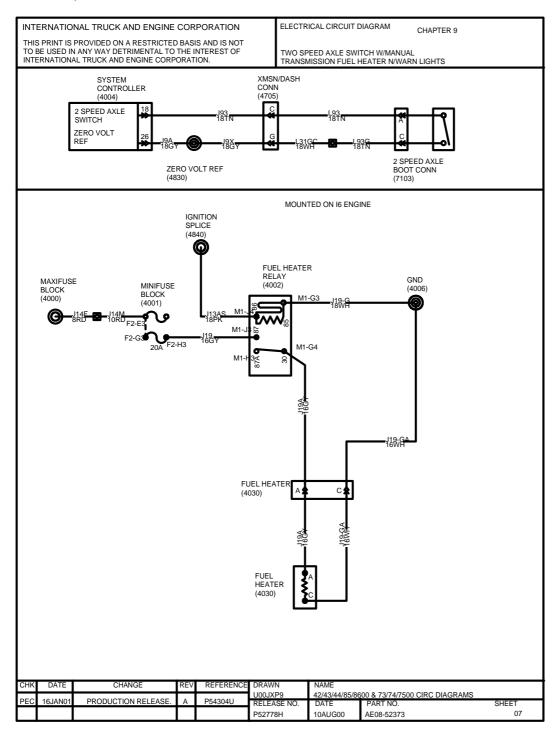


Figure 86 Two Speed Axle Switch W/Manual Transmission Fuel Heater N/Warn Lights

9.8. BRAKE SYSTEM, HYDRAULIC, P. 8

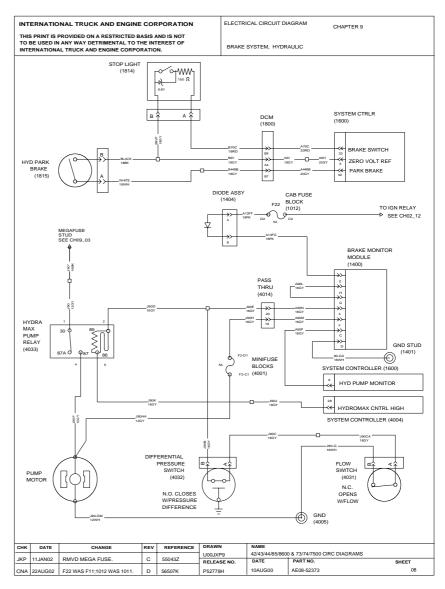


Figure 87 Brake System, Hydraulic

9.9. FUEL TRANSFER PUMP, P. 9

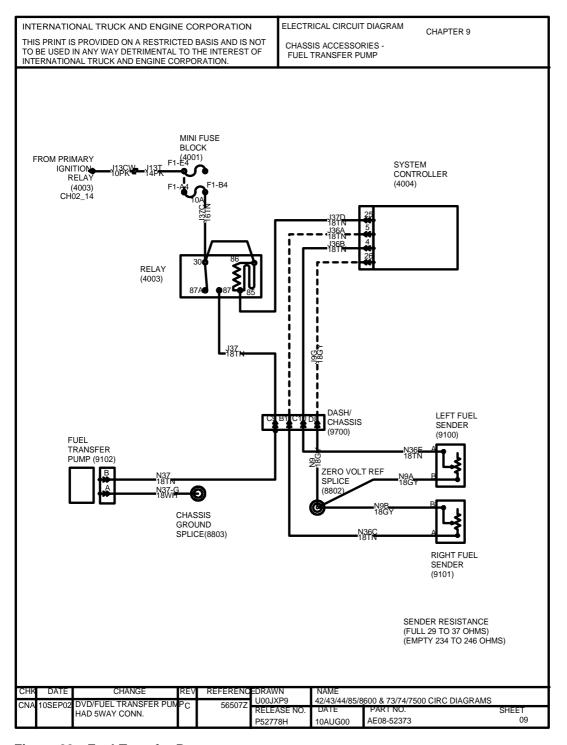


Figure 88 Fuel Transfer Pump

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

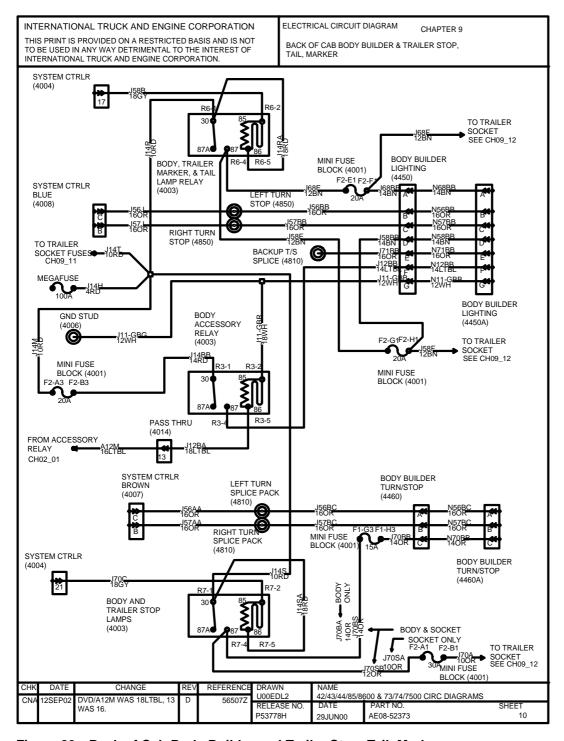


Figure 89 Back of Cab Body Builder and Trailer Stop, Tail, Marker

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

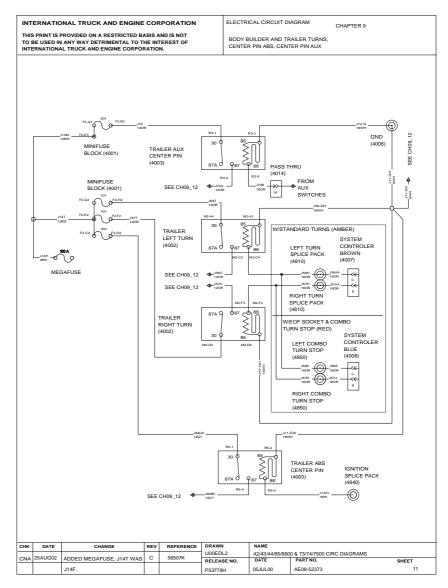


Figure 90 Body Builder and Trailer Turns, Center Pin ABS, Center Pin Aux

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

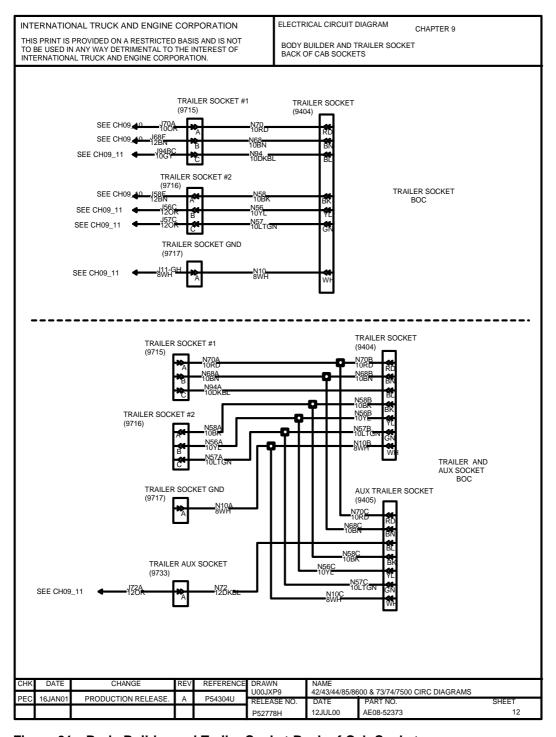


Figure 91 Body Builder and Trailer Socket Back of Cab Sockets

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

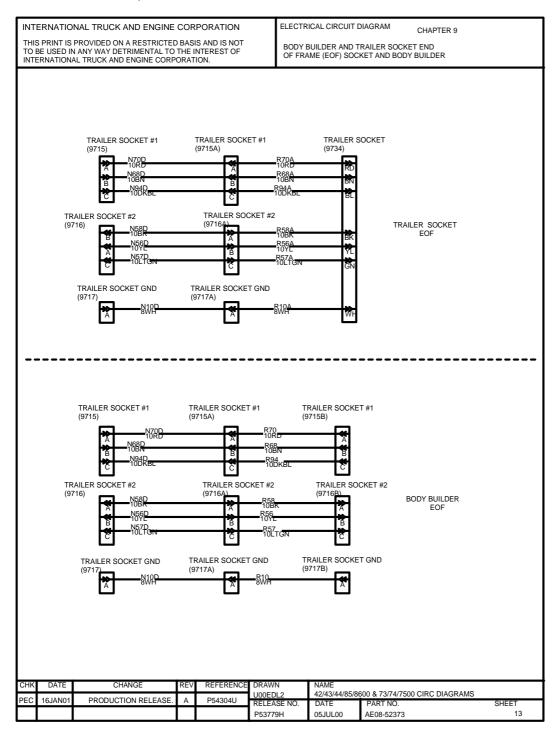


Figure 92 Body Builder and Trailer Socket End of Frame (EOF) Socket and Body Builder

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

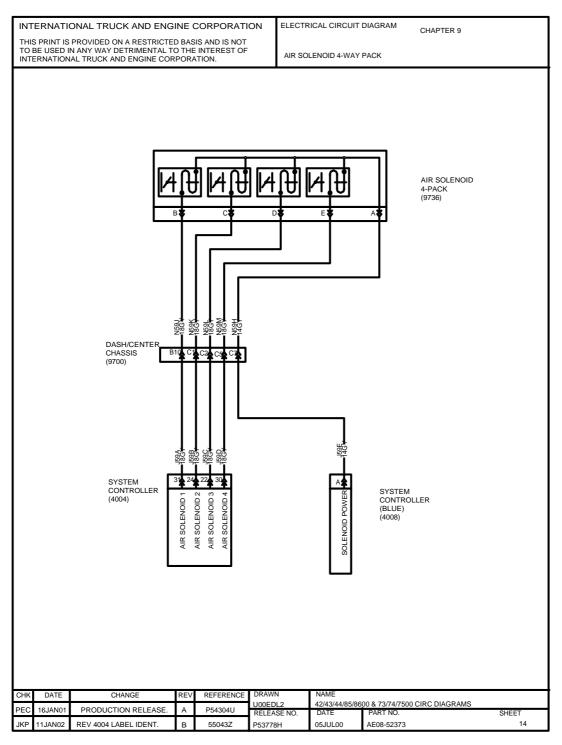


Figure 93 Air Solenoid 4-Way Pack

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

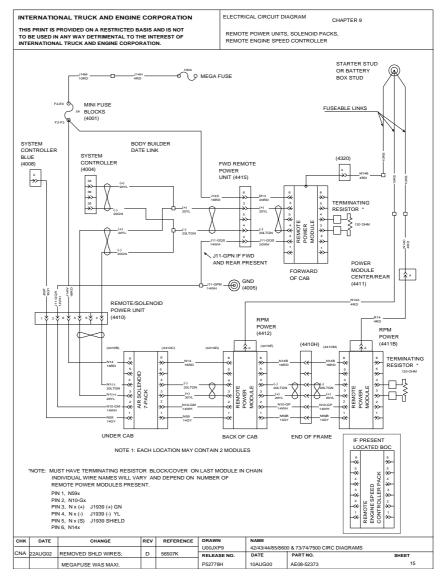


Figure 94 Remote Power Units, Solenoid Packs, Remote Engine Speed Controller

9.16. HYD POWER PARK, P. 16

INT	NTERNATIONAL TRUCK AND ENGINE CORPORATION			ELECTF	ELECTRICAL CIRCUIT DIAGRAM CHAPTER 9		
TO	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.				CHASSIS ACCESSORIES - HYD POWER PARK		
	DIAGRAM NOT AVAILABLE						
CHK	DATE 16JAN01	CHANGE PRODUCTION RELEASE.	REV REFERENCE A P54304U	U00EDL2		8600 & 73/74/7500 CIRC DIAGRAMS	CUEET
Н			 	RELEASE NO. P52778H	DATE 10JUL00	PART NO. AE08-52373	SHEET 16

Figure 95 HYD Power Park

9.17. AIR SUSPENSION, P. 17

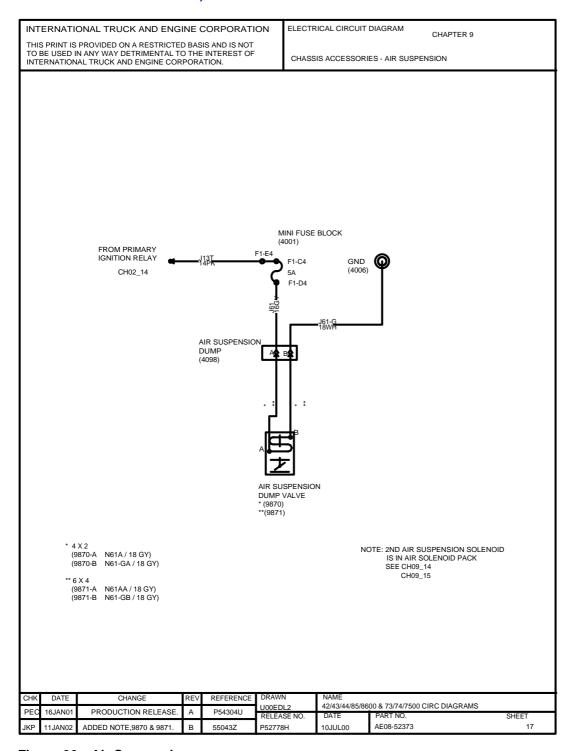


Figure 96 Air Suspension

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

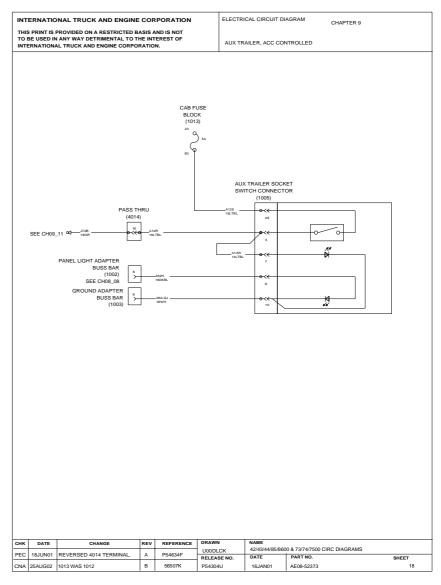


Figure 97 Aux. Trailer, Acc Controlled

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

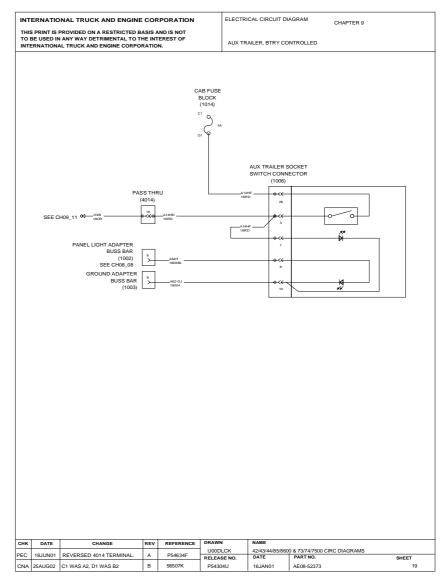


Figure 98 Aux. Trailer, Btry Controlled

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

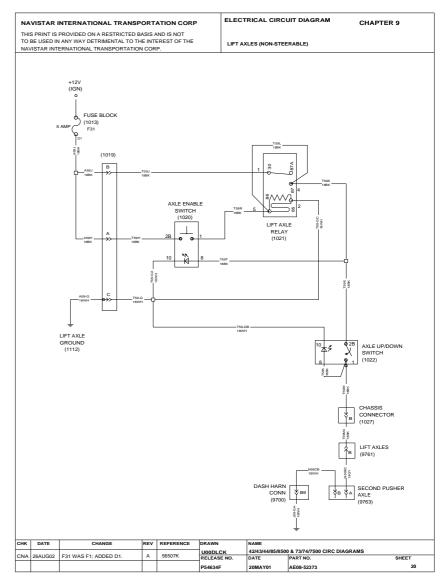


Figure 99 Lift Axles (Non-Steerable)

9.21. LIFT AXLES (STEERABLE), P. 21

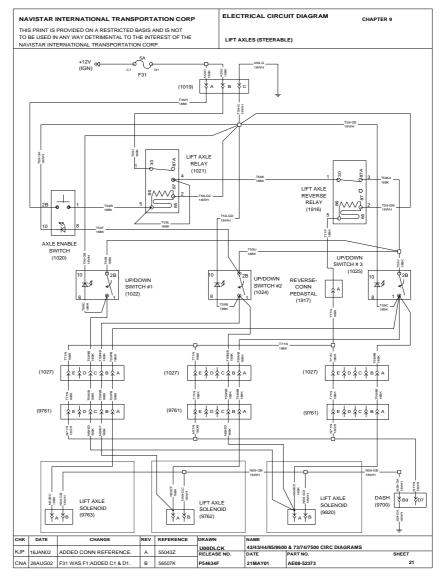


Figure 100 Lift Axles (Non-Steerable)

9.22. AIR ACTUATED PARK BRAKE, P. 22

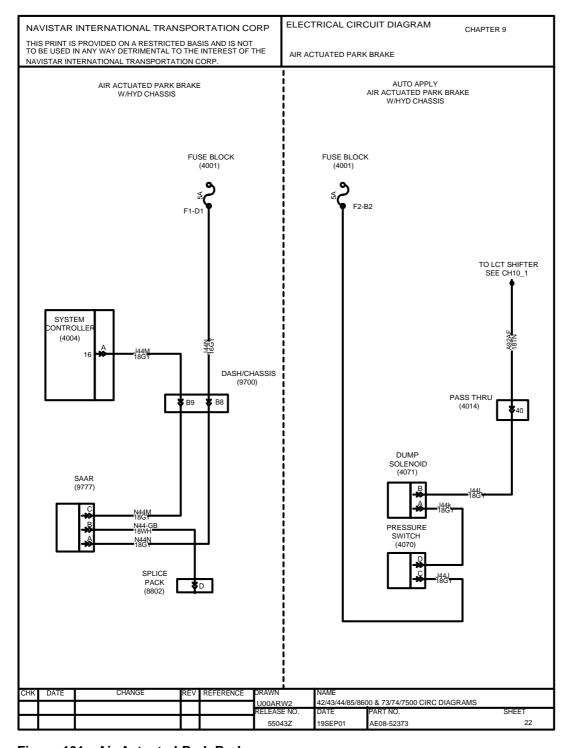


Figure 101 Air Actuated Park Brake

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

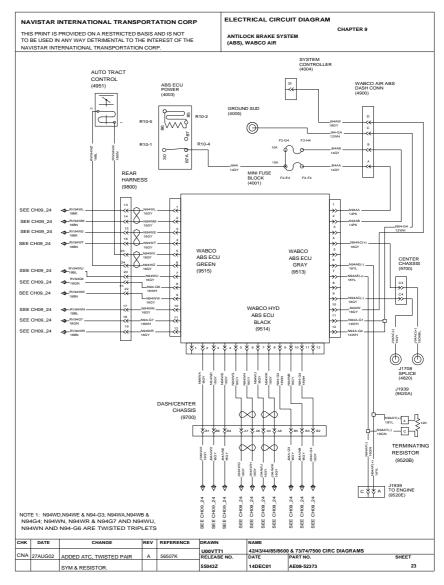


Figure 102 Antilock Brake System, WABCO Air

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

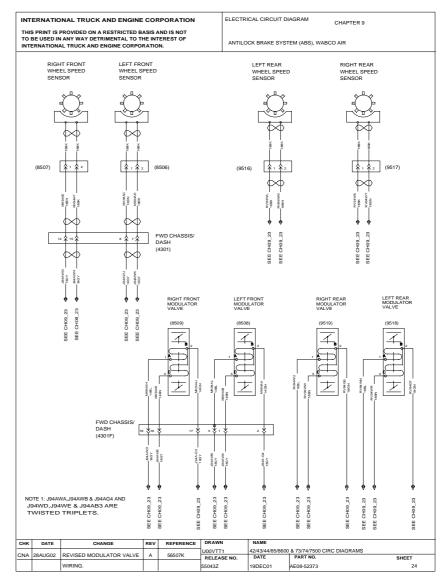


Figure 103 Antilock Brake System, WABCO Air

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

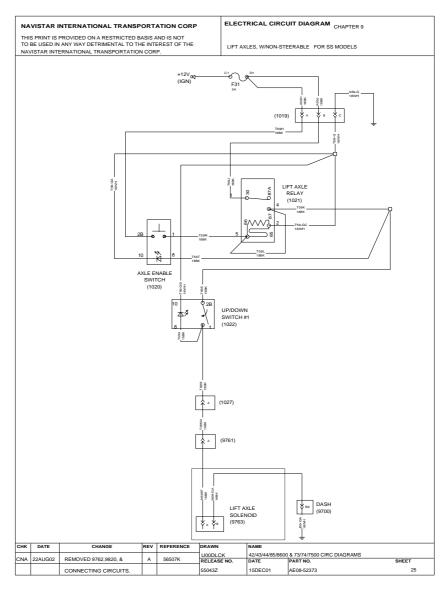


Figure 104 Lift Axles, With Multiples for SS Models

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

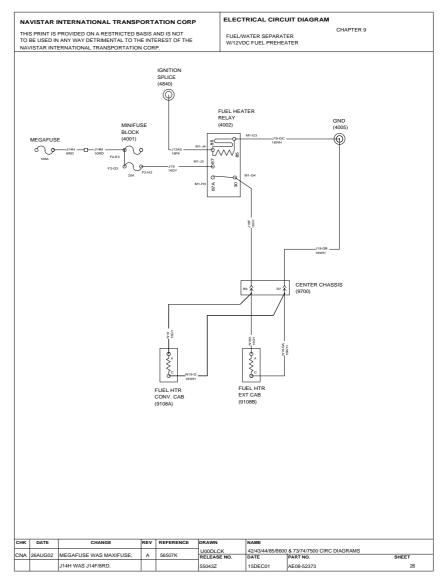


Figure 105 Fuel / Water Separator With 12VDC Fuel Preheater

10. TRANSMISSIONS (CHAPTER 10)

10.1. ALLISON LCT TRANSMISSION, P. 1

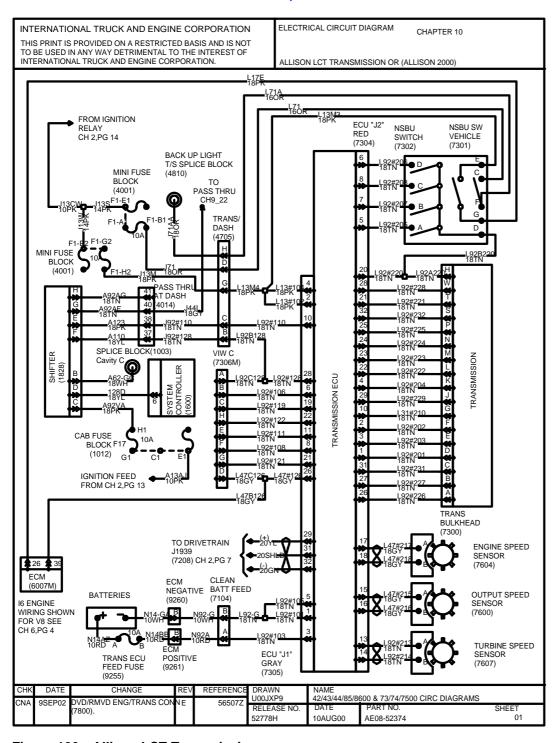


Figure 106 Allison LCT Transmission

10.2. ALLISON MD TRANSMISSION, P. 2

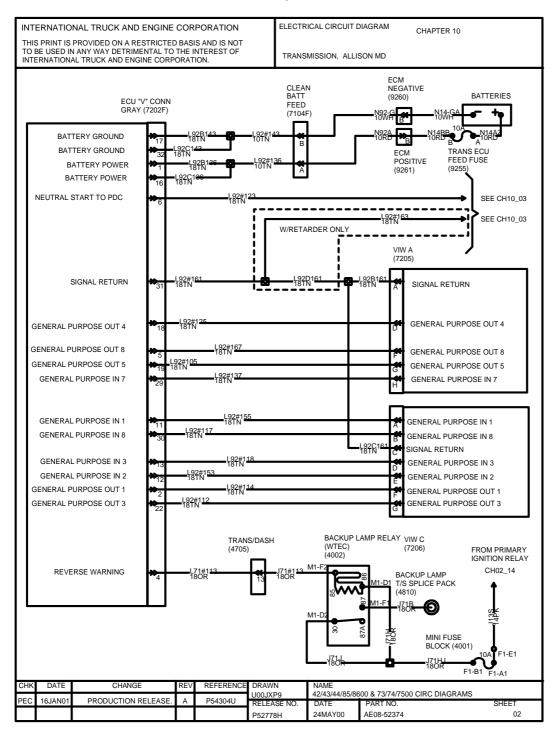


Figure 107 Allison MD Transmission

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

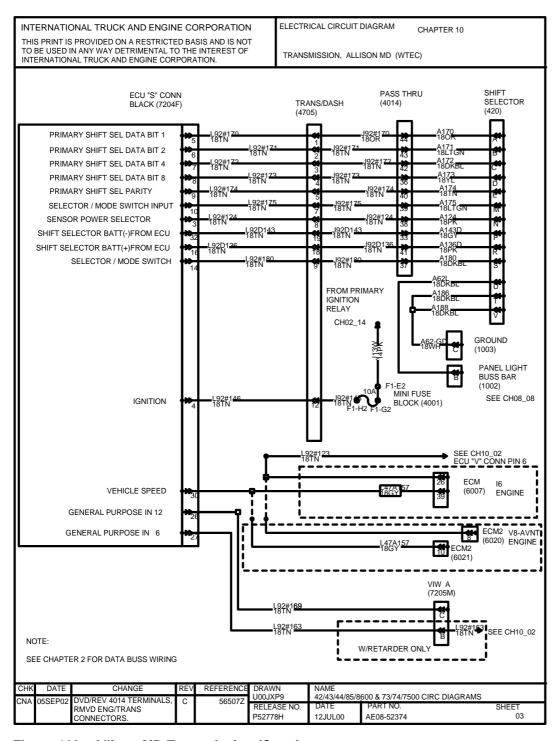


Figure 108 Allison MD Transmission (Cont.)

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

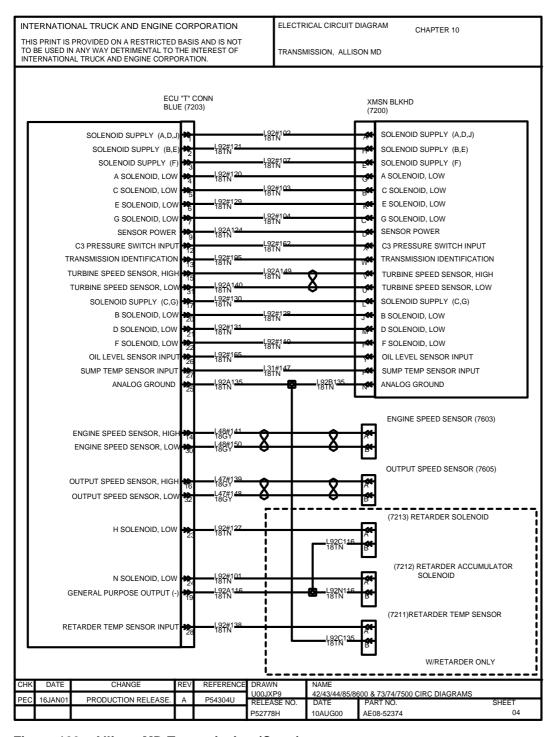


Figure 109 Allison MD Transmission (Cont.)

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

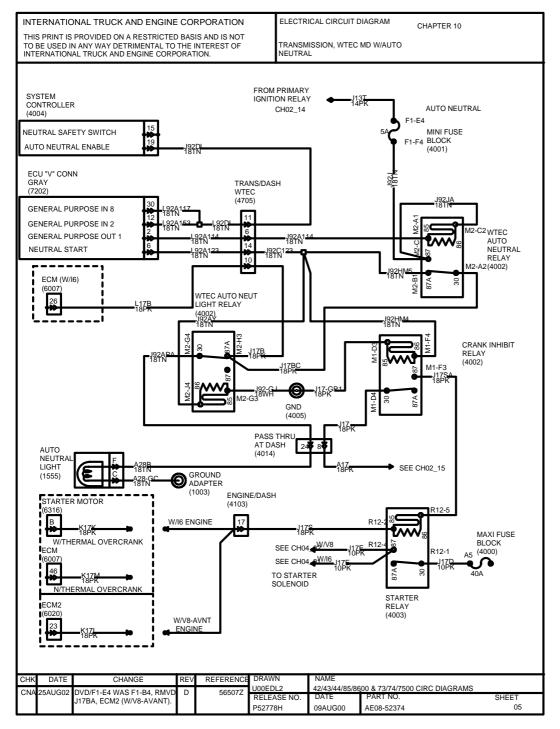


Figure 110 Transmission, WTEC MD W/Auto Neutral

10.6. EATON AUTOSHIFT TRANSMISSION, P. 6

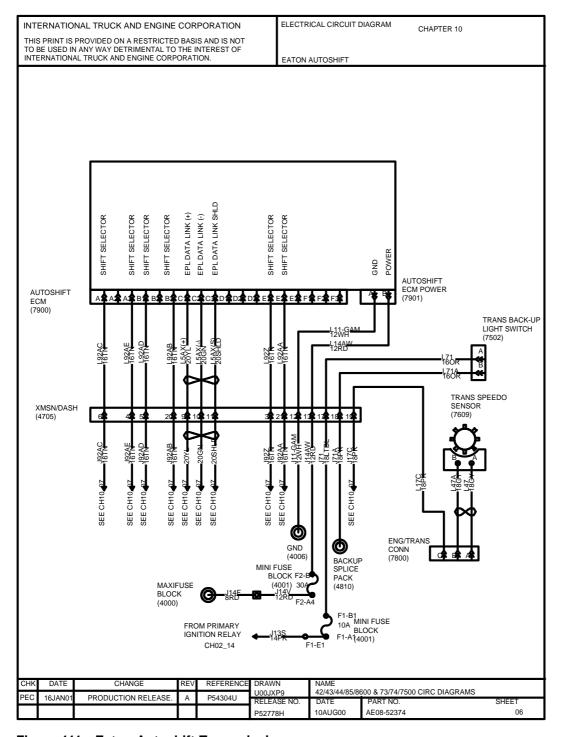


Figure 111 Eaton Autoshift Transmission

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

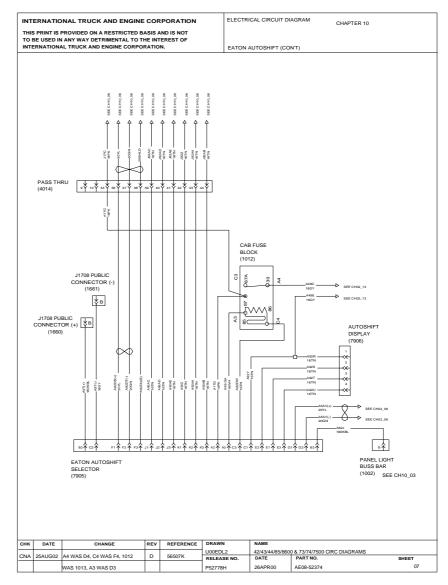


Figure 112 Eaton Autoshift Transmission (Cont.)

10.8. EATON LIGHTNING TRANSMISSION, P. 8

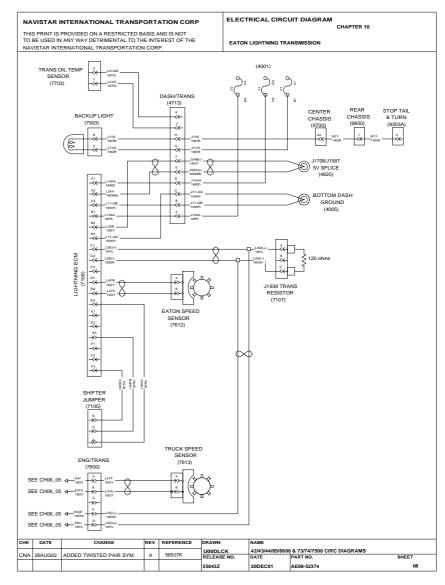


Figure 113 Eaton Autoshift Transmission (Cont.)

11. AIR CONDITIONING (CHAPTER 11)

11.1. HVAC SYSTEMS, P. 1

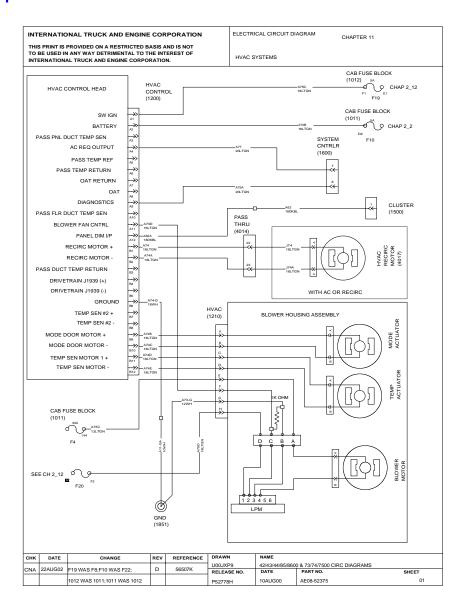


Figure 114 HVAC Systems

11.2. AIR CONDITIONING (ONLY), P. 2

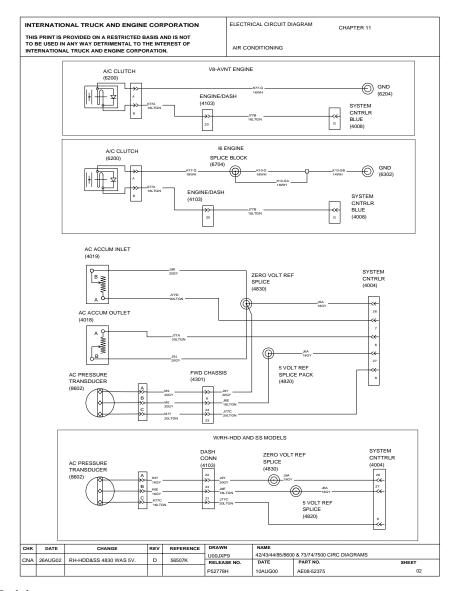


Figure 115 Air Conditioning (Only)