SERVICE MANUAL

SERVICE MANUAL SECTION

9800 Model Built April 1, 2004 and After — ELECTRICAL CIRCUIT DIAGRAMS

Model: 9800

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xii	9800 Model Built April 1, 2004 and After — ELECTRICAL CIRCUIT DIAGRAMS

1. INSTRUCTIONS AND CHARTS (LHD — CHAPTER 1)

1.1. CIRCUIT IDENTIFICATION CHART, P. 1

THIS PRINT IS PR	RUCK AND ENGINE CORPOR OVIDED ON A RESTRICTED BASI	SIS AND INTERNATIONAL CIRCUIT NUMBER
IS NOT TO BE US	D IN ANY WAY DETRIMENTAL T THAL TRUCK AND ENGINE CORPO	TO THE INTERNATIONAL CIRCUIT NUMBER
		CUIT NUMBER AND IDENTIFICATION
	CIRCUIT COLOR DES	SCRIPTION
		TERNATOR - FIELD
	2 DKBL 170	TERNATOR-CHARGE OB DATA LINK, SWITCH DATA LINK(+)
	GY 170	OB DATA LINK ,SWITCH DATA LINK(-) RIAL/DATA COMMUNICATION JI922
	E YL DRI	IVE TRAIN J1939 DATA LINK (+)
	6 GY	IVE TRAIN J1939 DATA LINK (-)
	7 RD AL1	TERNATOR - RESISTANCE
	8 GY ZEF	RO VOLT REFERENCE (ZVR)
	10 WH CH/	ASSIS/ENGINE GROUND
		B/SLEEPER GROUND CESSORY
	I PK IGN	NITION FEED
	DK 1Gr	NITION FEED (BODY BUILDER CONNECTOR) TTERY FEED
	15 RD KEY	Y SWITCH FEED
	16 17 PK ST/	ARTER CONTROL
		OW PLUG/PRE-HEATER
		GINE SHUTDOWN
		MOTE POWER MODULE ILD START CONTROLS (ETHER)
	22	
	_ 	GINE FAN/SHUTTERS GINE EXHAUST BRAKE
	25 TN PYF	ROMETER
		METER IL TMETER
		STRUMENTS & GAUGES
		GINE WATER TEMPERATURE GINE OIL TEMPERATURE
		ANSMISSION OIL TEMPERATURE
		LE OIL TEMPERATURE
		GINE OIL LEVEL OLANT LEVEL
	35 TN ENG	GINE OIL PRESSURE
		EL LEVEL EL PUMP
	38	
		R DRYER HEATER W AIR PRESSURE WARNING
	41 TN AIF	R TEMPERATURE
		ONT AXLE ENGAGED WER DIVIDER LOCK (PDL) WARNING
	44 GY PAF	RK BRAKE WARNING
		ITI-THEFT WARNING WER TAKE-OFF WARNING
		EEDOMETER
		CHOMETER FFERENTIAL LOCK WARNING
	יוטן זט ן פּדּ	TENERALINE LOCK MANIATING
ek DATE	CHANGE REV	REFERENCE CRASN NAME
	SED & REDRAWN. B	RROEPKE INSTRUCTIONS AND CHARTS FOR ALL MODELS
		59381N RELEASE NO. P52600M 29JUL98 AE08-52011 SHEET 01

Figure 1 Circuit Identification Chart, page 1

1.2. CIRCUIT IDENTIFICATION CHART, P. 2

THIS F	ATIONAL TRUCI PRINT IS PROVIDE OT TO BE USED IN INTERNATIONAL	D ON A R	ESTRICTED DETRIMEN	BA!	SIS AND TO THE	INT	ICAL CIRCUI ERNATION/ NTIFICATI	L CIRC	UIT NU		- 1 - 1	· 1
	CI	RCUIT	NUMBER	ΑN	D IDENTI	FICATION	(CONT.)					
	CIRCUIT	COLOR				DESC	RIPTION					
	50	YL	LIGHT S	SW 1	TCH FEEC)						
	51	YL	 		ITCH FEE						_	
	52 53	YL YL			HI-BEAN						-	
	54	BN			IARKERS L						_	
	55	OR			IAL - FEE							
	56	OR			IAL LIGHT		ODV BIII F	ED COM	ECTIO	N13	4	
	57	YL OR	_		IAL LIGHT		BODY BUILD	JER CUNI	NECTIO	N 1	-	
							BODY BUIL	DER CO	NECT I	ONI		
	58	BN			/IDENTIF	ICATION L	.IGHTS					
	59 60	GY OR	SOLENO!		GHTS							
	61	GY	AIR SUS								\dashv	
	62	DKBL	PANEL L	. 10	HTS							
	63	DKBL			DOME LIC							
	64 65	YL OR			NG LIGHT						-	
	66	YL	-		RUNN ING L						_	
	67											
	68	BN	TAIL LI									
	69 70	BN OR	STOP L		LATE LIG	НТ					-	
	''	RD				BUILDER	CONNECTIO)N)			-	
	71	OR	BACKUP									
	72	LTBL OR				DY BUILDE	R CONNECT	TIONI			-	
	73	LTGN		` '	OXILIANI	I EED-DA	IENI				_	
	74					ING MOTOR	₹					
	75 76		HEATER AUXILIA		OWER MOT	OR					_	
	77		AIR CON								_	
	78					MOTORIZE)					
	79	GY BK	SEAT BE			FEED					_	
	80				OX RELAY	-1 550					\dashv	
	82	GY			D WIPER							
	83		POWER W									
	84 85	GY	CIGAR L	. 10	HEH						\dashv	
	86			NI	ERTAINME	NT/CLOCK					_	
	87	GY			.D WASHER	1						
	88		CLOCK/F		IRMETER						_	
	90	GY	HYDRAUL		BRAKE F	PUMP					-	
	91	VT	INTERCO	MI	UNICATIO	N						
	92	TN	TRANSMI	SS	ION CONT	ROLS-ELEC	TRONIC				_	
	93 94	TN GY			T CONTRO						-	
	95	TN			MISSION						-	
	96	YL	SNOW PL	.OV	LIGHTS	/CRUISE (ONTROLS					
DATE		HANGE		REV	REFERENCE	DRAMA DDOEDKE	INSTRUCT	IONS AND	CHAPI	S FOR	ALI M	nne s
YOB	REVISED	& REDR	AWN.	С	59381N	RELEASE NO.		PART NO.			1 S-EE	

Figure 2 Circuit Identification Chart, page 2

1.3. CIRCUIT IDENTIFICATION CHART, P. 3

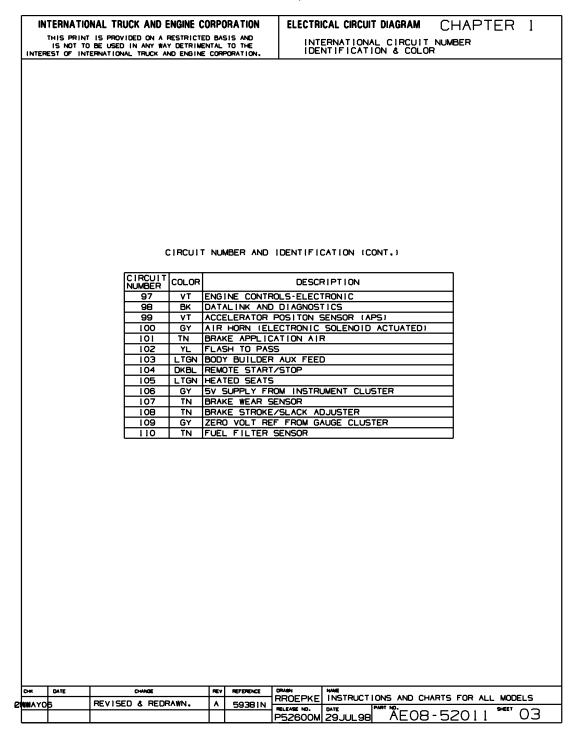


Figure 3 Circuit Identification Chart, page 3

1.4. CIRCUIT NUMBER IDENTIFICATION AND COLOR, P. 4

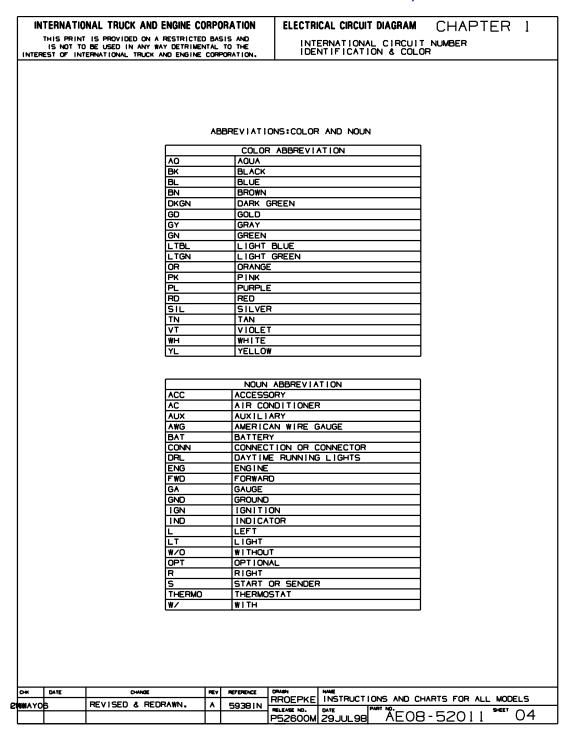


Figure 4 Circuit Number Identification and Color

1.5. CIRCUIT DIAGRAM INSTRUCTION, P. 5

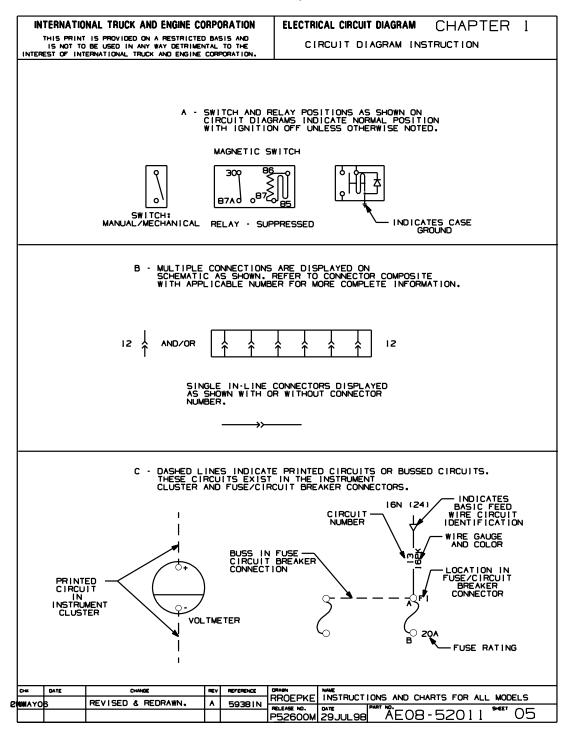


Figure 5 Circuit Diagram Instruction

1.6. CIRCUIT DIAGRAM INSTRUCTION, P. 6

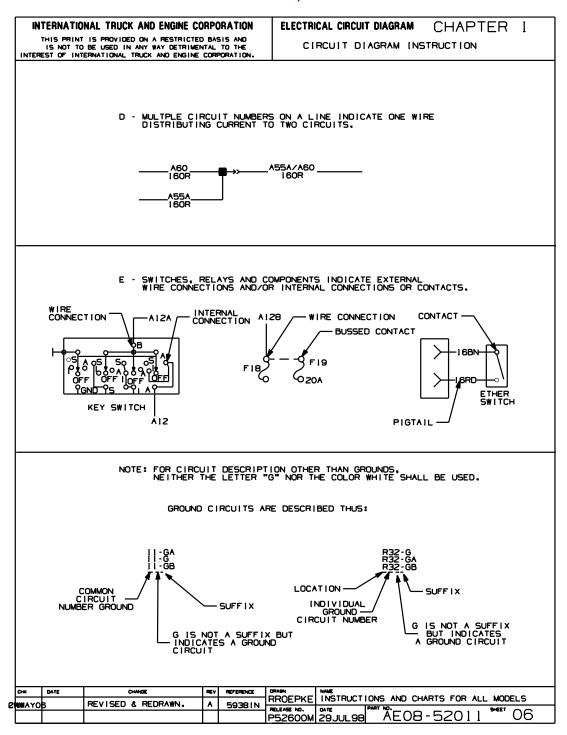


Figure 6 Circuit Diagram Instruction

1.7. RELAY FUNCTIONS AND WIRING GUIDE, P. 7

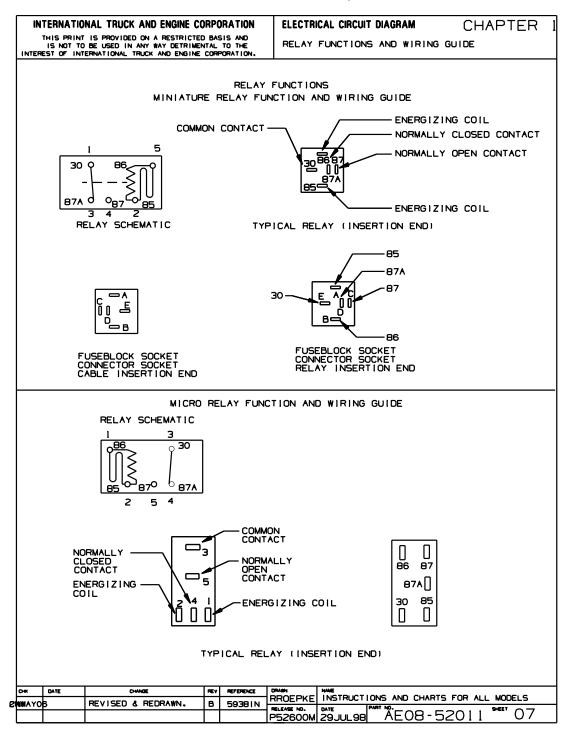


Figure 7 Relay Functions and Wiring Guide

1.8. RELAY FUNCTIONS AND WIRING GUIDE, P. 8

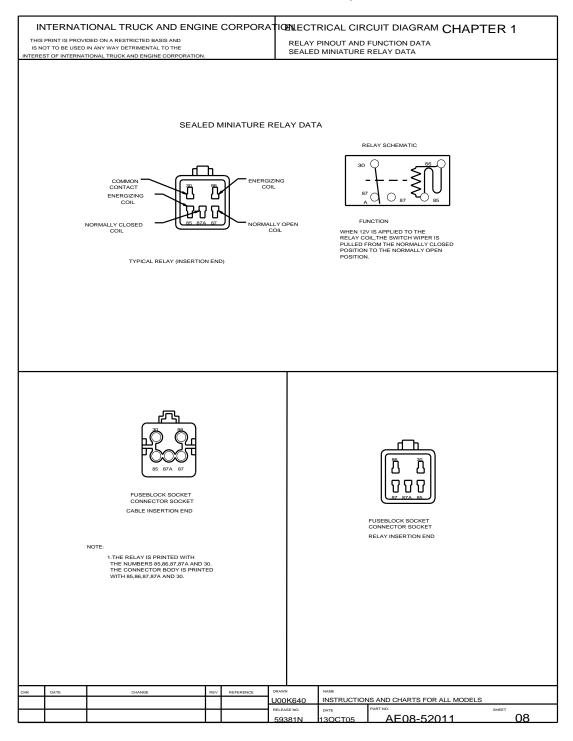


Figure 8 Relay Functions and Wiring Guide

1.9. SCHEMATIC SYMBOL CHART, P. 9

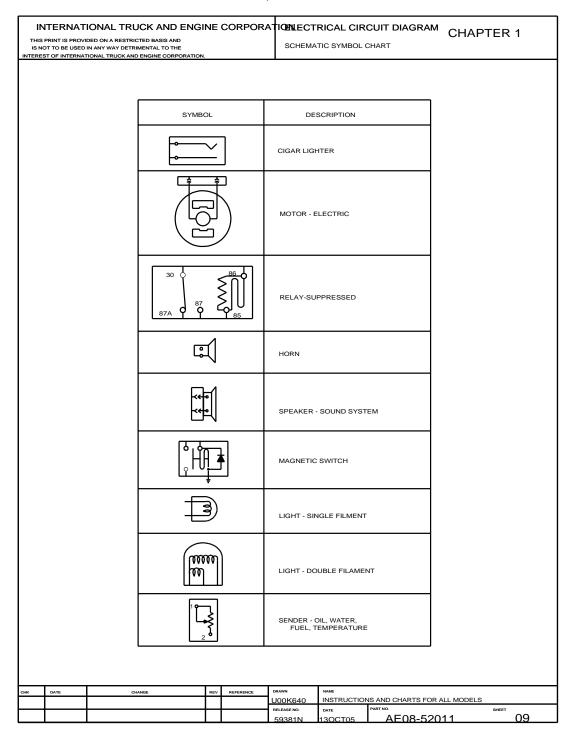


Figure 9 Schematic Symbol Chart

1.10. SCHEMATIC SYMBOL CHART, P. 10

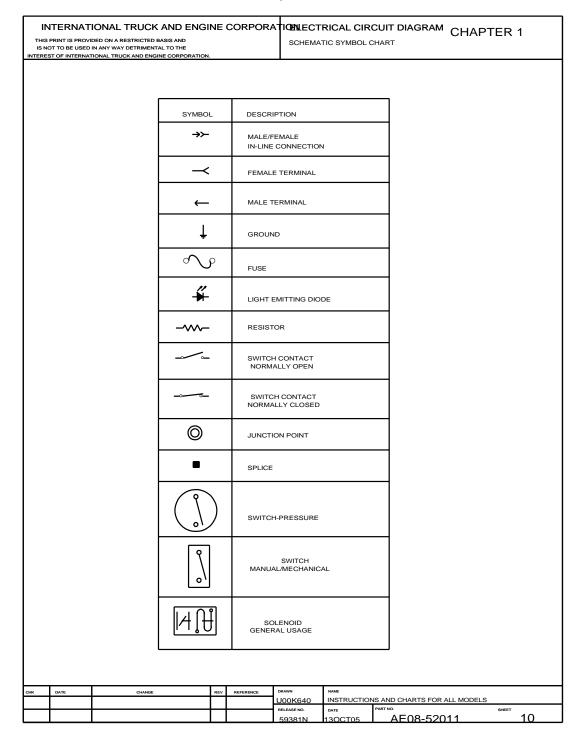


Figure 10 Schematic Symbol Chart

1.11. SCHEMATIC SYMBOL CHART, P. 11

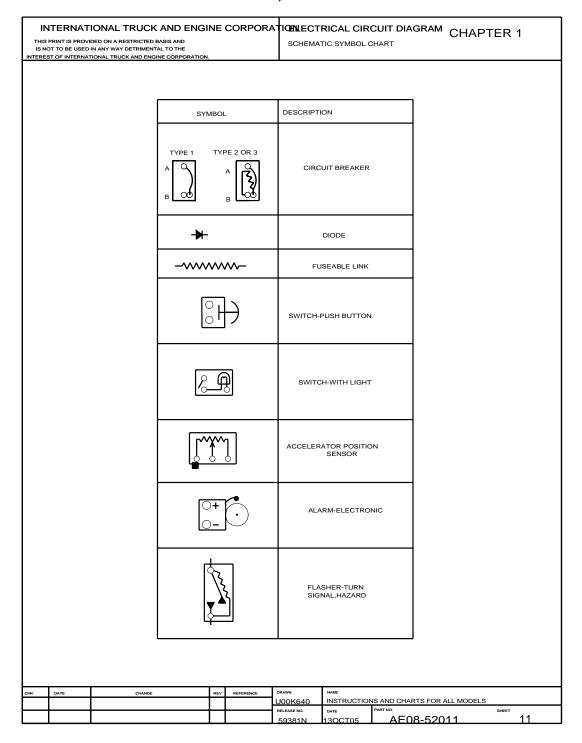


Figure 11 Schematic Symbol Chart

1.12. LAMP BULB CHART, P. 12

	ON A RESTRICTED BASIS AND NY WAY DETRIMENTAL TO THE AL TRUCK AND ENGINE CORPORATION.	LAMP E	BULB CHAF	RT	
				CANDLE DOWED OD	BULB
SR.NO	BULB APPLICATION			CANDLE POWER OR WATTS	TRADE NUMBER
1	BACK-UP LIGHTS			32 CANDLEPOWER	GE1156
2	CLEARENCE & IDENTIFICATION SMALL			3 CANDLEPOWER	GE168
3	COURTESY LIGHT			21 CANDLEPOWER	1142
4	DOME LIGHTS			21 CANDLEPOWER	1142
5	FOG LIGHTS			100 WATT	4921-1
6	LUCU BEAMS			55 WATT	GE9007
7 8	HIGH BEAMS CIGAR LIGHTER			60 WATT 1 CANDLEPOWER	GE9007 1455
9	GAUGE BACK LIGHT			2 CANDLEPOWER	194
10	GAUGE WARNING LED (RED)			2 CANDLEPOWER	194
11	COLD AMBIENT PROTECTION LED (RED)			2 CANDLEPOWER	194
12	FUEL FILTER LED (YELLOW)			2 CANDLEPOWER	194
13	WARN ENGINE LED (YELLOW)			2 CANDLEPOWER	194
14	STOP ENGINE LED (RED)			2 CANDLEPOWER	194
15	BRAKE PRESSURE LED			2 CANDLEPOWER	194
16	CHECK TRANSMISSION LED			2 CANDLEPOWER	194
17	TRAILER ABS LED			2 CANDLEPOWER	194
18 19	WASHER FLUID LED LEFT TURN SIGNAL LED (GREEN)			2 CANDLEPOWER 2 CANDLEPOWER	194 194
20	TRACTION CONTROL LED (GREEN)			2 CANDLEPOWER	194
21	WATER IN FUEL LED (YELLOW)			2 CANDLEPOWER	194
22	PARK FLUID LED LIGHT (RED)			2 CANDLEPOWER	194
23	CHECK ELECTRICAL SYSTEMS LED (YELLOW)		2 CANDLEPOWER	194
24	PARK BRAKE LED (RED)			2 CANDLEPOWER	194
25	CRUISE CONTROL ACTIVE LED (YELLOW)			2 CANDLEPOWER	194
26	ANTILOCK BRAKING SYSTEM LED (YELLOW)			2 CANDLEPOWER	194
27	RIGHT TURN LED (GREEN)			2 CANDLEPOWER	194
28 29	COOLANT LEVEL LED (RED) SEAT BELT LED (RED)			2 CANDLEPOWER 2 CANDLEPOWER	194 194
30	HIGH BEAM ICON LEAD (BLUE)			2 CANDLEPOWER	53
31	CHECK AIR CONDITIONER LED (YELLOW)			2 CANDLEPOWER	82S272109-4
32	MAP LIGHT			3 CANDLEPOWER	1816
33	SIDE MARKER				2548
34	STOP & TURN/TAIL & LICENSE PLATE			32/3 CANDLEPOWER	3157
35	TURN SIGNAL/MARKER (FENDER)			32/3 CANDLEPOWER	3157
36	TURN SIGNAL & MARKER LIGHT				2356
37	WORK (TRAILER HOOK)	DEADING		35 WATTS	4411
38	BACK-UP LIGHTS/UPPER AND LOWER BUNK F LIGHT	LADING		15 CANDLEPOWER	1003
39	CABINET/WARDROBE LIGHT			5W	7575
40	UNDER BUNK LIGHT			21 CP/2(12CP)	577/211
41	ACCENT LIGHT			2(12CP)	211
42	DOME LIGHT LAMP			15 WATT	F15T8-CW
43	SLEEPER FLOOR LIGHT			4 CP	W5W
44 45	HEATER AND AIR CONDITIONER CONTROL LUGGAGE COMPARTMENT LIGHT			3 CANDLEPOWER 6 CANDLEPOWER	168 99
	READING LIGHT			15 CANDLEPOWER	1003
40	TREADING EIGHT			13 OANDEET OWER	1005
E	CHANGE REV REFERENCE	DRAWN	NAME		
		U00K640	I INSTRUCT	TIONS AND CHARTS FOR A	LL MODELS

Figure 12 Lamp Bulb Chart

1.13. EATON AUTO SHIFT, P. 13

U00K640 INSTRUCTIONS AND CHARTS FOR ALL MODELS		ED ON A RESTRICTED BASIS AND I ANY WAY DETRIMENTAL TO THE	EATON A	RICAL CIRCUIT DIAGRANCHAPTER 1 UTO SHIFT
Term DESCRIPTION NOTES A1 RAIL SELECT SENSOR A2 RAIL SELECT SENSOR B3 RAIL SELECT SENSOR B1 GEAR SELECT SENSOR B2 GEAR SELECT SENSOR B3 GEAR SELECT SENSOR B3 GEAR SELECT SENSOR D1 OUTPUT SHAFT SPEED SENSOR D2 OUTPUT SHAFT SPEED SENSOR E1 MAIN SHAFT SPEED SENSOR E1 MAIN SHAFT SPEED SENSOR FOR 10 AND 18 SPEED F2 RANGE VALVE FOR 10 AND 18 SPEED F3 RANGE VALVE FOR 10 AND 18 SPEED G1 SPLITTER VALVE FOR 18 SPEED ONLY G2 SPLITTER VALVE FOR 18 SPEED ONLY G3 SPLITTER VALVE FOR 18 SPEED ONLY G3 SPLITTER VALVE FOR 18 SPEED ONLY H1 INERTIA BRAKE WITH 18 AND 7 SPEED, OTTONAL WITH 18 AND 18 SPEED A1 INPUT SHAFT SPEED SENSOR K1 INPUT SHAFT SPEED SENSOR K2 TORQUE CONVERTER 18 SPEED AST K1 INPUT SHAFT SPEED SENSOR K2 TORQUE CONVERTER 18 SPEED AST K1 INPUT SHAFT SPEED SENSOR K2 TORQUE CONVERTER 18 SPEED AST A1 BATTERY (+) B2 ATA - (1587) A3 GROUND C1 EATON PROPRIET ARY LINK (FPL-1) EPL-1 SPEED AST A1 BATTERY (+) B2 ATA - (1587) B3 GROUND C1 EATON PROPRIET ARY LINK (FPL-1) EPL-1 SPEED AST AND REPUT SHAFT SPEED SENSOR C2 EATON PROPRIET ARY LINK (FPL-1) EPL-1 SPEED AST AND REPUT SHAFT SPEED SENSOR B1 TRANSMISSION BATTERY (+) B2 ATA - (1587) B3 GROUND C1 EATON PROPRIET ARY LINK (FPL-1) EPL-1 SPEED AST AND REPUT SHAFT SPEED SENSOR B1 TRANSMISSION BATTERY (+) B2 ATA - (1587) B3 GROUND C1 EATON PROPRIET ARY LINK (FPL-1) EPL-1 SPEED AST AND REPUT SHAFT SPEED SENSOR B1 TRANSMISSION BATTERY (+) B2 ATA - (1587) B3 GROUND C1 EATON PROPRIET ARY LINK (FPL-1) EPL-1 SPEED AST AND REPUT SHAFT SPEED SENSOR B1 TRANSMISSION BATTERY (+) B2 ATA - (1587) B3 GROUND B4 SPEED AST B5 SPEED AST B1 SPE	OF INTERNATION	ONAL TRUCK AND ENGINE CORPORA	ION.	
Term DESCRIPTION NOTES A1 RAIL SELECT SENSOR A2 RAIL SELECT SENSOR B3 RAIL SELECT SENSOR B1 GEAR SELECT SENSOR B2 GEAR SELECT SENSOR B3 GEAR SELECT SENSOR B3 GEAR SELECT SENSOR D1 OUTPUT SHAFT SPEED SENSOR D2 OUTPUT SHAFT SPEED SENSOR E1 MAIN SHAFT SPEED SENSOR E1 MAIN SHAFT SPEED SENSOR FOR 10 AND 18 SPEED F2 RANGE VALVE FOR 10 AND 18 SPEED F3 RANGE VALVE FOR 10 AND 18 SPEED G1 SPLITTER VALVE FOR 18 SPEED ONLY G2 SPLITTER VALVE FOR 18 SPEED ONLY G3 SPLITTER VALVE FOR 18 SPEED ONLY G3 SPLITTER VALVE FOR 18 SPEED ONLY H1 INERTIA BRAKE WITH 18 AND 7 SPEED, OTTONAL WITH 18 AND 18 SPEED A1 INPUT SHAFT SPEED SENSOR K1 INPUT SHAFT SPEED SENSOR K2 TORQUE CONVERTER 18 SPEED AST K1 INPUT SHAFT SPEED SENSOR K2 TORQUE CONVERTER 18 SPEED AST K1 INPUT SHAFT SPEED SENSOR K2 TORQUE CONVERTER 18 SPEED AST A1 BATTERY (+) B2 ATA - (1587) A3 GROUND C1 EATON PROPRIET ARY LINK (FPL-1) EPL-1 SPEED AST A1 BATTERY (+) B2 ATA - (1587) B3 GROUND C1 EATON PROPRIET ARY LINK (FPL-1) EPL-1 SPEED AST AND REPUT SHAFT SPEED SENSOR C2 EATON PROPRIET ARY LINK (FPL-1) EPL-1 SPEED AST AND REPUT SHAFT SPEED SENSOR B1 TRANSMISSION BATTERY (+) B2 ATA - (1587) B3 GROUND C1 EATON PROPRIET ARY LINK (FPL-1) EPL-1 SPEED AST AND REPUT SHAFT SPEED SENSOR B1 TRANSMISSION BATTERY (+) B2 ATA - (1587) B3 GROUND C1 EATON PROPRIET ARY LINK (FPL-1) EPL-1 SPEED AST AND REPUT SHAFT SPEED SENSOR B1 TRANSMISSION BATTERY (+) B2 ATA - (1587) B3 GROUND C1 EATON PROPRIET ARY LINK (FPL-1) EPL-1 SPEED AST AND REPUT SHAFT SPEED SENSOR B1 TRANSMISSION BATTERY (+) B2 ATA - (1587) B3 GROUND B4 SPEED AST B5 SPEED AST B1 SPE				
Term DESCRIPTION NOTES A1 RAIL SELECT SENSOR A2 RAIL SELECT SENSOR B3 RAIL SELECT SENSOR B1 GEAR SELECT SENSOR B2 GEAR SELECT SENSOR B3 GEAR SELECT SENSOR B3 GEAR SELECT SENSOR D1 OUTPUT SHAFT SPEED SENSOR D2 OUTPUT SHAFT SPEED SENSOR E1 MAIN SHAFT SPEED SENSOR E1 MAIN SHAFT SPEED SENSOR FOR 10 AND 18 SPEED F2 RANGE VALVE FOR 10 AND 18 SPEED F3 RANGE VALVE FOR 10 AND 18 SPEED G1 SPLITTER VALVE FOR 18 SPEED ONLY G2 SPLITTER VALVE FOR 18 SPEED ONLY G3 SPLITTER VALVE FOR 18 SPEED ONLY G3 SPLITTER VALVE FOR 18 SPEED ONLY H1 INERTIA BRAKE WITH 18 AND 7 SPEED, OTTONAL WITH 18 AND 18 SPEED A1 INPUT SHAFT SPEED SENSOR K1 INPUT SHAFT SPEED SENSOR K2 TORQUE CONVERTER 18 SPEED AST K1 INPUT SHAFT SPEED SENSOR K2 TORQUE CONVERTER 18 SPEED AST K1 INPUT SHAFT SPEED SENSOR K2 TORQUE CONVERTER 18 SPEED AST A1 BATTERY (+) B2 ATA - (1587) A3 GROUND C1 EATON PROPRIET ARY LINK (FPL-1) EPL-1 SPEED AST A1 BATTERY (+) B2 ATA - (1587) B3 GROUND C1 EATON PROPRIET ARY LINK (FPL-1) EPL-1 SPEED AST AND REPUT SHAFT SPEED SENSOR C2 EATON PROPRIET ARY LINK (FPL-1) EPL-1 SPEED AST AND REPUT SHAFT SPEED SENSOR B1 TRANSMISSION BATTERY (+) B2 ATA - (1587) B3 GROUND C1 EATON PROPRIET ARY LINK (FPL-1) EPL-1 SPEED AST AND REPUT SHAFT SPEED SENSOR B1 TRANSMISSION BATTERY (+) B2 ATA - (1587) B3 GROUND C1 EATON PROPRIET ARY LINK (FPL-1) EPL-1 SPEED AST AND REPUT SHAFT SPEED SENSOR B1 TRANSMISSION BATTERY (+) B2 ATA - (1587) B3 GROUND C1 EATON PROPRIET ARY LINK (FPL-1) EPL-1 SPEED AST AND REPUT SHAFT SPEED SENSOR B1 TRANSMISSION BATTERY (+) B2 ATA - (1587) B3 GROUND B4 SPEED AST B5 SPEED AST B1 SPE				
Term DESCRIPTION NOTES A1 RAIL SELECT SENSOR A2 RAIL SELECT SENSOR B3 RAIL SELECT SENSOR B1 GEAR SELECT SENSOR B2 GEAR SELECT SENSOR B3 GEAR SELECT SENSOR B3 GEAR SELECT SENSOR D1 OUTPUT SHAFT SPEED SENSOR D2 OUTPUT SHAFT SPEED SENSOR E1 MAIN SHAFT SPEED SENSOR E1 MAIN SHAFT SPEED SENSOR FOR 10 AND 18 SPEED F2 RANGE VALVE FOR 10 AND 18 SPEED F3 RANGE VALVE FOR 10 AND 18 SPEED G1 SPLITTER VALVE FOR 18 SPEED ONLY G2 SPLITTER VALVE FOR 18 SPEED ONLY G3 SPLITTER VALVE FOR 18 SPEED ONLY G3 SPLITTER VALVE FOR 18 SPEED ONLY H1 INERTIA BRAKE WITH 18 AND 7 SPEED, OTTONAL WITH 18 AND 18 SPEED A1 INPUT SHAFT SPEED SENSOR K1 INPUT SHAFT SPEED SENSOR K2 TORQUE CONVERTER 18 SPEED AST K1 INPUT SHAFT SPEED SENSOR K2 TORQUE CONVERTER 18 SPEED AST K1 INPUT SHAFT SPEED SENSOR K2 TORQUE CONVERTER 18 SPEED AST A1 BATTERY (+) B2 ATA - (1587) A3 GROUND C1 EATON PROPRIET ARY LINK (FPL-1) EPL-1 SPEED AST A1 BATTERY (+) B2 ATA - (1587) B3 GROUND C1 EATON PROPRIET ARY LINK (FPL-1) EPL-1 SPEED AST AND REPUT SHAFT SPEED SENSOR C2 EATON PROPRIET ARY LINK (FPL-1) EPL-1 SPEED AST AND REPUT SHAFT SPEED SENSOR B1 TRANSMISSION BATTERY (+) B2 ATA - (1587) B3 GROUND C1 EATON PROPRIET ARY LINK (FPL-1) EPL-1 SPEED AST AND REPUT SHAFT SPEED SENSOR B1 TRANSMISSION BATTERY (+) B2 ATA - (1587) B3 GROUND C1 EATON PROPRIET ARY LINK (FPL-1) EPL-1 SPEED AST AND REPUT SHAFT SPEED SENSOR B1 TRANSMISSION BATTERY (+) B2 ATA - (1587) B3 GROUND C1 EATON PROPRIET ARY LINK (FPL-1) EPL-1 SPEED AST AND REPUT SHAFT SPEED SENSOR B1 TRANSMISSION BATTERY (+) B2 ATA - (1587) B3 GROUND B4 SPEED AST B5 SPEED AST B1 SPE				
Term DESCRIPTION NOTES A1 RAIL SELECT SENSOR A2 RAIL SELECT SENSOR B3 RAIL SELECT SENSOR B1 GEAR SELECT SENSOR B2 GEAR SELECT SENSOR B3 GEAR SELECT SENSOR B3 GEAR SELECT SENSOR D1 OUTPUT SHAFT SPEED SENSOR D2 OUTPUT SHAFT SPEED SENSOR E1 MAIN SHAFT SPEED SENSOR E1 MAIN SHAFT SPEED SENSOR FOR 10 AND 18 SPEED F2 RANGE VALVE FOR 10 AND 18 SPEED F3 RANGE VALVE FOR 10 AND 18 SPEED G1 SPLITTER VALVE FOR 18 SPEED ONLY G2 SPLITTER VALVE FOR 18 SPEED ONLY G3 SPLITTER VALVE FOR 18 SPEED ONLY G3 SPLITTER VALVE FOR 18 SPEED ONLY H1 INERTIA BRAKE WITH 18 AND 7 SPEED, OTTONAL WITH 18 AND 18 SPEED A1 INPUT SHAFT SPEED SENSOR K1 INPUT SHAFT SPEED SENSOR K2 TORQUE CONVERTER 18 SPEED AST K1 INPUT SHAFT SPEED SENSOR K2 TORQUE CONVERTER 18 SPEED AST K1 INPUT SHAFT SPEED SENSOR K2 TORQUE CONVERTER 18 SPEED AST A1 BATTERY (+) B2 ATA - (1587) A3 GROUND C1 EATON PROPRIET ARY LINK (FPL-1) EPL-1 SPEED AST A1 BATTERY (+) B2 ATA - (1587) B3 GROUND C1 EATON PROPRIET ARY LINK (FPL-1) EPL-1 SPEED AST AND REPUT SHAFT SPEED SENSOR C2 EATON PROPRIET ARY LINK (FPL-1) EPL-1 SPEED AST AND REPUT SHAFT SPEED SENSOR B1 TRANSMISSION BATTERY (+) B2 ATA - (1587) B3 GROUND C1 EATON PROPRIET ARY LINK (FPL-1) EPL-1 SPEED AST AND REPUT SHAFT SPEED SENSOR B1 TRANSMISSION BATTERY (+) B2 ATA - (1587) B3 GROUND C1 EATON PROPRIET ARY LINK (FPL-1) EPL-1 SPEED AST AND REPUT SHAFT SPEED SENSOR B1 TRANSMISSION BATTERY (+) B2 ATA - (1587) B3 GROUND C1 EATON PROPRIET ARY LINK (FPL-1) EPL-1 SPEED AST AND REPUT SHAFT SPEED SENSOR B1 TRANSMISSION BATTERY (+) B2 ATA - (1587) B3 GROUND B4 SPEED AST B5 SPEED AST B1 SPE				
A1 RAIL SELECT SENSOR A2 RAIL SELECT SENSOR A3 RAIL SELECT SENSOR B1 GEAR SELECT SENSOR B2 GEAR SELECT SENSOR B3 GEAR SELECT SENSOR B3 GEAR SELECT SENSOR D1 OUTPUT SHAFT SPEED SENSOR D2 OUTPUT SHAFT SPEED SENSOR E1 MAIN SHAFT SPEED SENSOR E1 MAIN SHAFT SPEED SENSOR E2 MAIN SHAFT SPEED SENSOR FOR 10 AND 18 SPEED F1 RANGE VALVE F0R 10 AND 18 SPEED F1 RANGE VALVE F0R 10 AND 18 SPEED F2 RANGE VALVE F0R 10 AND 18 SPEED G1 SPLITTER VALVE F0R 10 AND 18 SPEED G1 SPLITTER VALVE FOR 18 SPEED ONLY G3 SPLITTER VALVE FOR 18 SPEED ONLY FOR 18	J1 E			Luczes .
A2 RAIL SELECT SENSOR B1 GEAR SELECT SENSOR B1 GEAR SELECT SENSOR B2 GEAR SELECT SENSOR B3 GEAR SELECT SENSOR B3 GEAR SELECT SENSOR D1 OUTPUT SHAPT SPEED SENSOR D2 OUTPUT SHAPT SPEED SENSOR E1 MAIN SHAPT SPEED SENSOR E1 MAIN SHAPT SPEED SENSOR FOR 10 AND 18 SPEED F1 RANGE VALVE FOR 10 AND 18 SPEED F3 SPLITTER VALVE FOR 10 AND 18 SPEED F3 SPLITTER VALVE FOR 18 SPEED ONLY G2 SPLITTER VALVE FOR 18 SPEED ONLY H1 INERTIA BRAKE WITH 6 AND 7 SPEED, OPTIONAL WITH 10 AND 7 SP				NOTES
B1 GEAR SELECT SENSOR				
B1				
B3		B1		
D1		B2	GEAR SELECT SENSOR	
D2		B3	GEAR SELECT SENSOR	
E1	_			
E2	-			I
F1	\vdash			
F2	\vdash			
F3			II.	I
G1				
G2 SPLITTER VALVE FOR 18 SPEED ONLY				
H1		G2		
NERTIA BRAKE WITH 10 AND 18 SPEED	_	G3	SPLITTER VALVE	FOR 18 SPEED ONLY
H2		H1	INERTIA BRAKE	
INERT IS BRAKE		⊔o		
J2 TORQUE CONVERTER		112	INERTIA BRAKE	
J3		J1	INPUT SHAFT SPEED SENSOR	
K1		J2	TORQUE CONVERTER	18 SPEED AST
K2	_			
18 SPEED AST 18 SPEED AST 18 SPEED AST 18 SPEED AST 19 VEHICLE INTERFACE HARNESS Term	-			
J2 VEHICLE INTERFACE HARNESS Term				
Term		N3	TORQUE CONVERTER	16 SPEED AST
Term	.12 \	/EHICLE INTERFACE HARNES	SS	•
A1 BATTERY (+) A2 ATA + (1587) A3 GROUND B1 TRANSMISSION BATTERY (+) B2 ATA - (1587) B3 GROUND C1 EATON PROPRIETARY LINK (EPL +) C2 EATON PROPRIETARY LINK (EPL -) C3 EATON PROPRIETARY LINK (EPL SHEILD) D1 AUX SPEED 1 + D2 AUX SPEED 1 - D3 AUX INPUT 2 INPUT. LOW SIDE E1 BATTERY (+) E2 TRANSMISSION BATTERY (+) E3 AUX INPUT 1 INPUT. LOW SIDE F1 AUX INPUT 1 INPUT. LOW SIDE F2 AUX INPUT 1 RETURN F3 AUX INPUT 1 RETURN F3 AUX OUTPUT 1 OUTPUT. LOW SIDE DRIVER				NOTES
A3		A1	BATTERY (+)	
B1		A2	ATA + (1587)	
B2	_	A3		
B3	-			
C1	—			
(EPL +) C2				
(EPL-) C3	\vdash			
C3		C1		
(EPL SHEILD)			(EPL +) EATON PROPRIETARY LINK	
D1		C2	(EPL +) EATON PROPRIETARY LINK (EPL -)	
D2		C2	(EPL +) EATON PROPRIETARY LINK (EPL -) EATON PROPRIETARY LINK	
### E1 BATTERY (+) ###################################		C2 C3	(EPL +) EATON PROPRIETARY LINK (EPL -) EATON PROPRIETARY LINK (EPL SHEILD)	
E2		C2 C3 D1	(EPL+) EATON PROPRIETARY LINK (EPL-) EATON PROPRIETARY LINK (EPL SHEILD) AUX SPEED 1+	
### F1 AUX INPUT 2 RETURN F1	-	C2 C3 D1 D2	(EPL +) EATON PROPRIETARY LINK (EPL -) EATON PROPRIETARY LINK (EPL SHEILD) AUX SPEED 1 + AUX SPEED 1 -	INPUT. LOW SIDE
### F1 AUX INPUT 1 INPUT, LOW SIDE #### F2 AUX INPUT 1 RETURN ###################################		C2 C3 D1 D2 D3	(EPL +) EATON PROPRIETARY LINK (EPL -) EATON PROPRIETARY LINK (EPL SHEILD) AUX SPEED 1 + AUX SPEED 1 - AUX INPUT 2	INPUT. LOW SIDE
F2		C2 C3 D1 D2 D3 E1	(EPL +) EATON PROPRIETARY LINK (EPL -) EATON PROPRIETARY LINK (EPL SHEILD) AUX SPEED 1 + AUX SPEED 1 - AUX INPUT 2 BATTERY (+) TRANSMISSION BATTERY (+)	INPUT. LOW SIDE
F3 AUX OUTPUT 1 OUTPUT, LOW SIDE DRIVER TE CHANGE REV REFERENCE ORANN NAME U00K640 INSTRUCTIONS AND CHARTS FOR ALL MODELS		C2 C3 D1 D2 D3 E1 E2 E3	(EPL +) EATON PROPRIETARY LINK (EPL -) EATON PROPRIETARY LINK (EPL SHEILD) AUX SPEED 1 + AUX SPEED 1 - AUX INPUT 2 BATTERY (+) TRANSMISSION BATTERY (+) AUX INPUT 2	RETURN
TE CHANGE REV REFERENCE ORAWN NAME U00K640 INSTRUCTIONS AND CHARTS FOR ALL MODELS		C2 C3 D1 D2 D3 E1 E2 E3	(EPL +) EATON PROPRIETARY LINK (EPL -) EATON PROPRIETARY LINK (EPL SHEILD) AUX SPEED 1 + AUX SPEED 1 - AUX INPUT 2 BATTERY (+) TRANSMISSION BATTERY (+) AUX INPUT 2 AUX INPUT 2 AUX INPUT 2	RETURN INPUT, LOW SIDE
U00K640 INSTRUCTIONS AND CHARTS FOR ALL MODELS		C2 C3 D1 D2 D3 E1 E2 E3 F1	(EPL +) EATON PROPRIETARY LINK (EPL -) EATON PROPRIETARY LINK (EPL SHEILD) AUX SPEED 1 + AUX SPEED 1 - AUX INPUT 2 BATTERY (+) TRANSMISSION BATTERY (+) AUX INPUT 2 AUX INPUT 1 AUX INPUT 1	RETURN INPUT. LOW SIDE RETURN
U00K640 INSTRUCTIONS AND CHARTS FOR ALL MODELS		C2 C3 D1 D2 D3 E1 E2 E3 F1	(EPL +) EATON PROPRIETARY LINK (EPL -) EATON PROPRIETARY LINK (EPL SHEILD) AUX SPEED 1 + AUX SPEED 1 - AUX INPUT 2 BATTERY (+) TRANSMISSION BATTERY (+) AUX INPUT 2 AUX INPUT 1 AUX INPUT 1	RETURN INPUT. LOW SIDE RETURN
U00K640 INSTRUCTIONS AND CHARTS FOR ALL MODELS		C2 C3 D1 D2 D3 E1 E2 E3 F1	(EPL +) EATON PROPRIETARY LINK (EPL -) EATON PROPRIETARY LINK (EPL SHEILD) AUX SPEED 1 + AUX SPEED 1 - AUX INPUT 2 BATTERY (+) TRANSMISSION BATTERY (+) AUX INPUT 2 AUX INPUT 1 AUX INPUT 1	RETURN INPUT. LOW SIDE RETURN
U00K640 INSTRUCTIONS AND CHARTS FOR ALL MODELS		C2 C3 D1 D2 D3 E1 E2 E3 F1	(EPL +) EATON PROPRIETARY LINK (EPL -) EATON PROPRIETARY LINK (EPL SHEILD) AUX SPEED 1 + AUX SPEED 1 - AUX INPUT 2 BATTERY (+) TRANSMISSION BATTERY (+) AUX INPUT 2 AUX INPUT 1 AUX INPUT 1	RETURN INPUT. LOW SIDE RETURN
U00K640 INSTRUCTIONS AND CHARTS FOR ALL MODELS		C2 C3 D1 D2 D3 E1 E2 E3 F1	(EPL +) EATON PROPRIETARY LINK (EPL -) EATON PROPRIETARY LINK (EPL SHEILD) AUX SPEED 1 + AUX SPEED 1 - AUX INPUT 2 BATTERY (+) TRANSMISSION BATTERY (+) AUX INPUT 2 AUX INPUT 1 AUX INPUT 1	RETURN INPUT. LOW SIDE RETURN
RELEASE NO. DATE PART NO. SHEET	DATE	C2 C3 D1 D2 D3 E1 E2 E3 F1 F2 F3	(EPL +) EATON PROPRIETARY LINK (EPL -) EATON PROPRIETARY LINK (EPL SHEILD) AUX SPEED 1 + AUX SPEED 1 - AUX INPUT 2 BATTERY (+) TRANSMISSION BATTERY (+) AUX INPUT 2 AUX INPUT 1 AUX INPUT 1 AUX INPUT 1	RETURN INPUT. LOW SIDE RETURN OUTPUT. LOW SIDE DRIVER

Figure 13 Eaton Auto Shift

1.14. EATON AUTO SHIFT, P. 14

	AL TRUCK AND ENGIN	NE CORPOR			CUIT DIAGRAMCHAPTE	R 1
BE USED IN AN	WAY DETRIMENTAL TO THE		EATON	AUTO SHIFT (C	CONT)	
NTERNATIONAL	TRUCK AND ENGINE CORPORATION.					
J3 POWE	R AND MOTOR CONNECTORS	S (EATON SUPPL	IED)			
Term	DESCRIPTION	O LEATON COLL E	100/	NOTES		
J3-B1	MAIN POWER +			MAIN POWER	2 +	
J3-A1	MAIN POWER -			1		
J3-B2	RAIL SELECT MOTOR +					
J3-A2	RAIL SELECT MOTOR -					
J3-B3	GEAR SELECT MOTOR +					
J3-A3	GEAR SELECT MOTOR -					
J1 SHIFT	CONTROL CONNECTOR					
Term	DESCRIPTION			NOTES		
A1	AUX INPUT/OUTPUT 3			I/O, LOW SID	E DRIVER	
A2	START ENABLE LATCH					
A3	START ENABLE RELAY (-)			1		
B1	AUX INPUT 5			RETURN		
B2	ATA + (1587)			_		
В3	VDASH			-		
C1	IGNITION					_
C2	ATA - (1587)			1		
C3	START ENABLE RELAY (+)			<u> </u>		_
D1	AUX INPUT 5			INPUT, LOW		_
D2	AUX INPUT 6			INPUT, LOW		_
D3	AUX OUTPUT 3			OUTPUT, LO	W SIDE DRIVER	_
E1	GEAR DISPLAY CLOCK			<u> </u>		_
E2	GEAR DISPLAY DATA			<u> </u>		_
E3	GEAR DISPLAY			+		-
F1	EATON PROPRIETARY LIN			1		_
F2	EATON PROPRIETARY LIN			+		_
F3	EATON PROPRIETARY LIN	IK (EPL SHIELD)		<u> </u>		_
G1 G2	J1939 (+) J1939 (-)			 		
G2 G3	J1939 (-)			1		_
H1	AUX INPUT 6			RETURN		_
H2	AUX OUTPUT 2				O SIDE DRIVER	
H3	AUX INPUT/OUTPUT 4			I/O. LOW SID		
J1	BATTERY (+)					
J2	TRANSMISSION BATTERY	(+)				
J3	GROUND					
K1	BATTERY (+)					
K2	TRANSMISSION BATTERY	(+)				
КЗ	GROUND					
	CHANGE	REV REFERENCE	DRAWN	NAME		
	CHANGE	REV REFERENCE	U00K640 RELEASE NO.		NS AND CHARTS FOR ALL MODELS	SHEET

Figure 14 Eaton Auto Shift

1.15. 31-PIN OEM CONNECTOR INTERFACE, P. 15

		DETRIMENTAL TO THE CK AND ENGINE CORPORATION			31 PIN O	EM CONN	ECTOR INTERFACE
F		Γ	31-	PIN OEM CO	NNECTOR INTE	RFACES	
H	PIN	DINOLIT TYPE				SIGNIA	LNAME
T I	1	PINOUT TYPE 5V SENSOR VOLTAGE	SOL 1	DCE.		NOT U	L NAME
Ī	2	RATIOMETRIC ANALOG				NOT U	
T.	3	ECM SWITCH RETURN	, 11 41	01			MP RETURN
Ĭ.	4	RESISTIVE ANALOG IN	PUT				MPERATURE
	5	5V SWITCHED PULLUP		JT			ANT DETECTED
	6	5V SWITCHED PULLUP	INPL	JT			ANT NOT DETECTED
	7	5V SENSOR VOLTAGE					ANT LEVEL SUPPLY
	8	SWITCHED SOURCE DI	RIVE	R OUTPUT		TOP2	SHIFT SOLENOID
	9	SWITCHED SOURCE DI	RIVE	R OUTPUT		TOP2	LOCKOUT SOLENOID
	10	SWITCHED SOURCE DI	RIVE	R OUTPUT		NOT U	ISED
	11	ECM SOLENOID RETUR	N.			TOP2	RETURN
L	12	SWITCHED SOURCE DI	RIVE	R OUTPUT		FAN 1	ON/OFF
						FAN 1	VARIABLE
Ļ		SELECTABLE PINOUT				FAN 1 H	HIGH/LOW/OFF #1
	13	ECM SOLENOID RETUR					IGNAL RETURN
	14	5V SENSOR VOLTAGE	SOU	RCE		NOT U	
г	15	HALL EFFECT INPUT					OGRAPH
	16	ECM SWITCH RETURN				NOT U	
	17	10V SWITCHED PULLU	P INF	PUT			ESSURE SWITCH
	18	ECM SWITCH RETURN					ESSURE RETURN
	19	ECM SWITCH RETURN					ANT LEVEL RETURN
H	20	SWITCHED SINK DRIVE	R OL	JTPUT		STAR	TER LOCKOUT RELAY
		RECONFIGURABLE PIN	OUT			ICON S	STARTER RELAY LOW
-						AUTO	START INTERLOCK OUT
Ī	21	VARIABLE RELUCTANO	E IN	PUT (+)			ETIC PICKUP VSS (+)
							ANICAL VSS (+)
	22	VARIABLE RELUCTANO	E IN	PUT (-)		MAGN	ETIC PICKUP VSS (-)
L						MECH	ANICAL VSS (-)
L						DIGITA	AL VSS
	23	RESISTIVE ANALOG IN	PUT			NOT U	ISED
	24	ECM SWITCH RETURN				ALTER	RNATE RETURN
ļ.	25	10V SWITCHED PULLU	P INF	TUT		REMO	TE OIL LEVEL SWITCH
	26	NO CONNECTION				NOT U	
	27	SWITCHED SOURCE DI		R OUTPUT 1			STARTER RELAY HIGH
	28	ECM SWITCH RETURN					M RETURN
F	29	SWITCHED SOURCE DI	KIVE	K OUTPUT		FAN 1 H	HIGH/LOW/OFF #2
<u> </u>	SELFC	I FABLE PINOUT					
ľ						FAN 2	ON/OFF
Ī							VARIABLE
		RECONFIGURABLE PIN	OUT			ALARN	
	30	5V SWITCHED PULLUP				TORQ	UE LIMIT SWITCH
	31	5V SWITCHED PULLUP	INPL	JT		NOT U	
	ENGINE	BRAKE RELAY CONNE	CTO	RINTERFACE	S	1	
F	PIN	PINOUT TYPE				SIGNA	L NAME
T I	1	SWITCHED SOURCE DI	RIVE	R OUTPUT			IE BRAKE RELAY
	2	ECM SOLENOID RETUR					IE BRAKE RELAY RETURN
DATE		CHANGE	REV	REFERENCE	DRAWN	NAME	
		UMANGE	KEV	KEFEKENCE		Ami	

Figure 15 31-Pin OEM Connector Interface

1.16. 31-PIN OEM CONNECTOR INTERFACE, P. 16

				NE CORPORAT	IOENLECT	RICAL CIR	CUIT DIAGRANCHAPTE	ER 1
IS NO	OT TO BE USED I	DED ON A RESTRICTE IN ANY WAY DETRIME	NTAL TO THE		31-PIN	OEM CONNEC	CTOR INTERFACE (CONT)	
INTERES	ST OF INTERNAT	TIONAL TRUCK AND EI	NGINE CORPORATION.					
		WIF SE	NSOR CONNECTO	OR INTERFACES				
		PIN	PINOUT TYPE			SIGNAL NAME	=	
		1	ECM SWITCH RE	ETURN		WIF SENSOR		
		2	WIF RESISTIVE	ANALOG INPUT		WIF SENSOR		
				FOR INTEREACES				
		E-GOVE	ERNOR CONNEC	FOR INTERFACES				
		PIN	PINOUT TYPE			SIGNAL NAME	≣	
1		1	5V SENSOR VOI	LTAGE SOURCE		WET TANK SU	JPPLY	
1		2	ECM SWITCH RE	ETURN			JPPLY RETURN	
1		3	RATOMETRIC A			WET TANK PE		
1		4	OUMPERED TO		ur.		R RELAY HIGH	
1		5		RCE DRIVER OUTPI	Uľ	E-GOVERNOR		
		6	RECONFIGURATE ECM SOLENOID				ER RELAY HIGH R VALVE RETURN	
						201211101		
		THERM	OSTAT CONNEC	TOR 1 INTERFACES				
		PIN	PINOUT TYPE			SIGNAL NAME		
		1	THERMOSTAT S			THERMOSTA		
		3	THERMOSTAT R	RETURN SINK DRIVER OUTPU	ıT	THERMOSTAT		
		4		PULLDOWN INPUT	<i>,</i> , , , , , , , , , , , , , , , , , ,	THERMOSTA		
		THERM	OSTAT CONNECT	TOR 2 INTERFACES				
		PIN	PINOUT TYPE			SIGNAL NAME	=	
				NALOG INPUT HIGH	Н	SIGNAL NAME		
					ł			
		PIN 1	THERMOSTAT A			ICON TEMPER	RATURE	
		PIN 1 2	THERMOSTAT A	N		ICON TEMPER	RATURE	
		PIN 1 2	THERMOSTAT A	N		ICON TEMPER	RATURE	
		PIN 1 2	THERMOSTAT A	N		ICON TEMPER	RATURE	
		PIN 1 2	THERMOSTAT A	N		ICON TEMPER	RATURE	
		PIN 1 2	THERMOSTAT A	N		ICON TEMPER	RATURE	
		PIN 1 2	THERMOSTAT A	N		ICON TEMPER	RATURE	
		PIN 1 2	THERMOSTAT A	N		ICON TEMPER	RATURE	
		PIN 1 2	THERMOSTAT A	N		ICON TEMPER	RATURE	
		PIN 1 2	THERMOSTAT A	N		ICON TEMPER	RATURE	
		PIN 1 2	THERMOSTAT A	N		ICON TEMPER	RATURE	
		PIN 1 2	THERMOSTAT A	N		ICON TEMPER	RATURE	
		PIN 1 2	THERMOSTAT A	N		ICON TEMPER	RATURE	
		PIN 1 2	THERMOSTAT A	N		ICON TEMPER	RATURE	
		PIN 1 2	THERMOSTAT A	N		ICON TEMPER	RATURE	
		PIN 1 2	THERMOSTAT A	N		ICON TEMPER	RATURE	
		PIN 1 2	THERMOSTAT A	N		ICON TEMPER	RATURE	
		PIN 1 2	THERMOSTAT A	N		ICON TEMPER	RATURE	
		PIN 1 2	THERMOSTAT A	N		ICON TEMPER	RATURE	
		PIN 1 2	THERMOSTAT A	N		ICON TEMPER	RATURE	
CHK	DATE	PIN 1 2	THERMOSTAT A NO CONNECTIO THERMOSTAT A	IN INALOG INPUT LOW	DRAWN	ICON TEMPER NOT USED ICON TEMP R	RATURE	
СНК	DATE	PIN 1 2 3 3	THERMOSTAT A NO CONNECTIO THERMOSTAT A	NALOG INPUT LOW		ICON TEMPER NOT USED ICON TEMP R	RATURE	SHEET

Figure 16 31-Pin OEM Connector Interface

1.17. ABS ECU PIN CONFIGURATION, P. 17

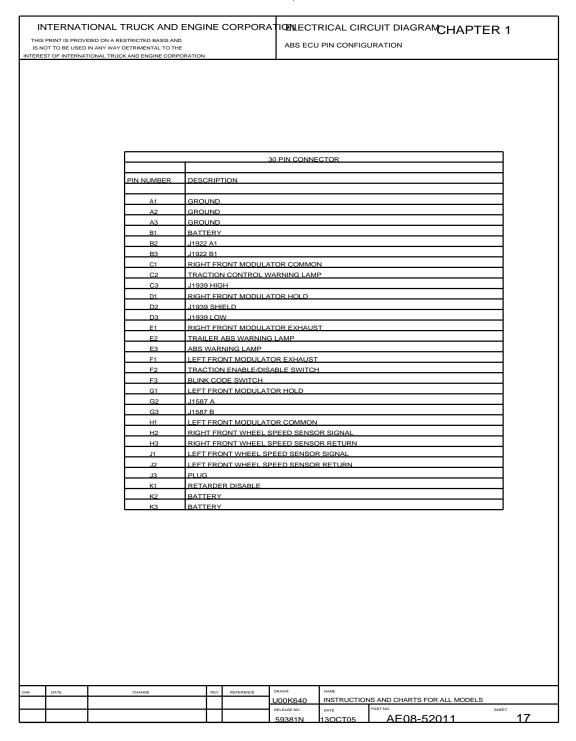


Figure 17 ABS ECU Pin Configuration

1.18. ABS ECU PIN CONFIGURATION, P. 18

	T IS PROVIDED ON A RESTRICTED	K AND ENGINE		1				
IS NOT TO	D BE USED IN ANY WAY DETRIMEN INTERNATIONAL TRUCK AND EN	NTAL TO THE		ABS ECU	PIN CONFI	GURATION (CONT)		
	PIN NUMBER							
	A1	RIGHT REAR MOD	ULATOR COM	MON				
	A2	PLUG						
	A3B1	PLUG RIGHT REAR MOD	I IOH SOTA ILI)				
	B2	PLUG						
	В3	PLUG						
	<u>C1</u>	RIGHT REAR MOD	ULATOR EXHA	AUST				
	C2 C3	PLUG PLUG						
	D1	LEFT REAR MODL	JLATOR EXHAL	JST				
	D2	TRACTION SOLEN						
	D3	TRACTION SOLEN					——	
	<u>E1</u>	RIGHT REAR WHE						
	E2 E3	RIGHT REAR WHE						
	F1	LEFT REAR MODU						
	F2	LEFT REAR WHEE						
	F3	LEFT REAR WHEE	L SPEED SEN	SOR RETURN				
x DATI	E CHANGE	į REV		DRAWN UOOK640	NAME INSTRUCTION	IS AND CHARTS FOR ALL	MODELS.	

Figure 18 ABS ECU Pin Configuration

2. 12 VOLT POWER DISTRIBUTION CIRCUIT DIAGRAMS (LHD — CHAPTER 2)

2.1. START FEED, P. 1

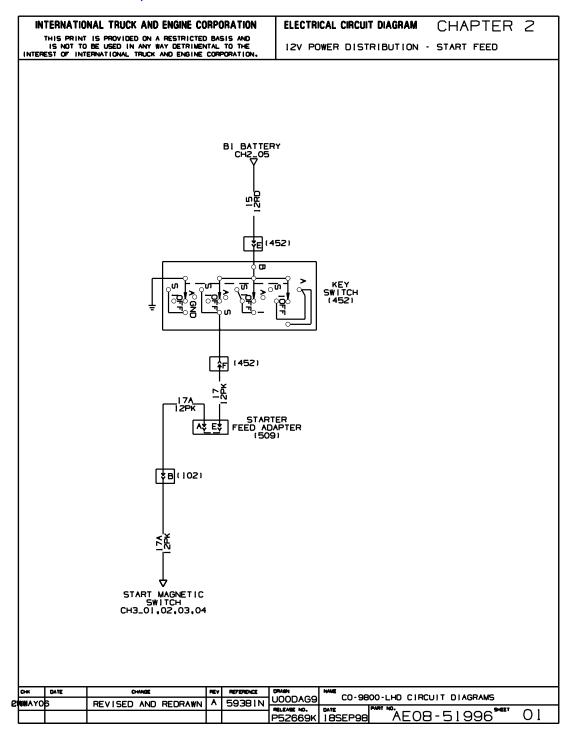


Figure 19 Start Feed

2.2. START FEED, P. 2

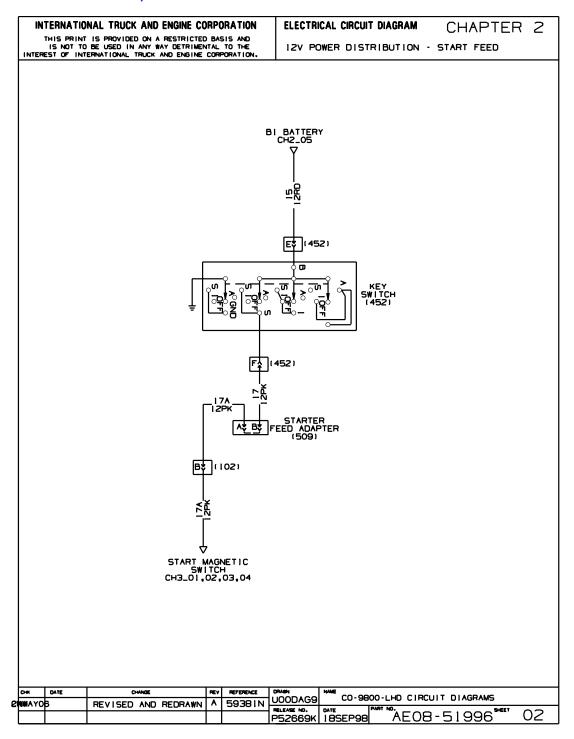


Figure 20 Start Feed

2.3. START FEED WITH EATON TRANSMISSION, P. 3

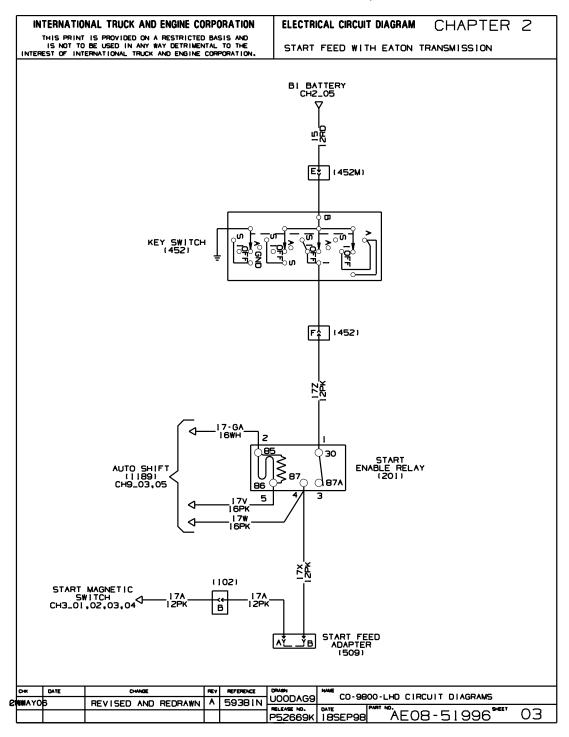


Figure 21 Start Feed with Eaton Transmission

2.4. BATTERY, P. 4

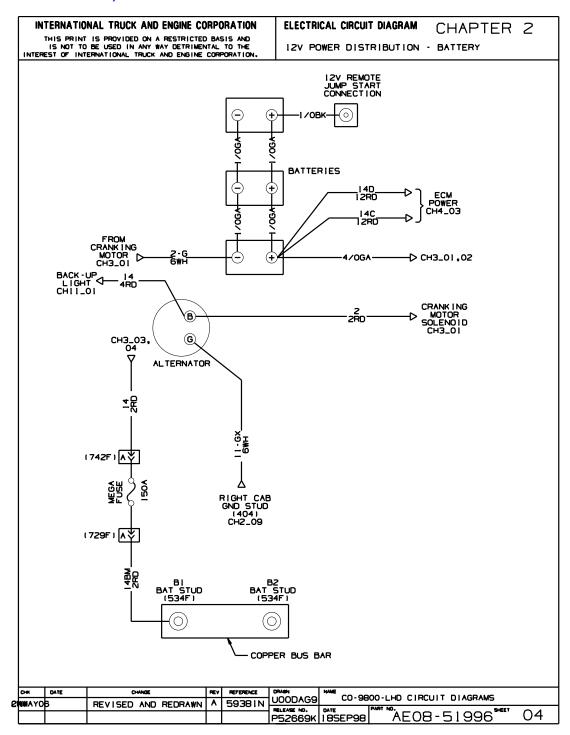


Figure 22 Battery

2.5. BATTERY, B1, P. 5

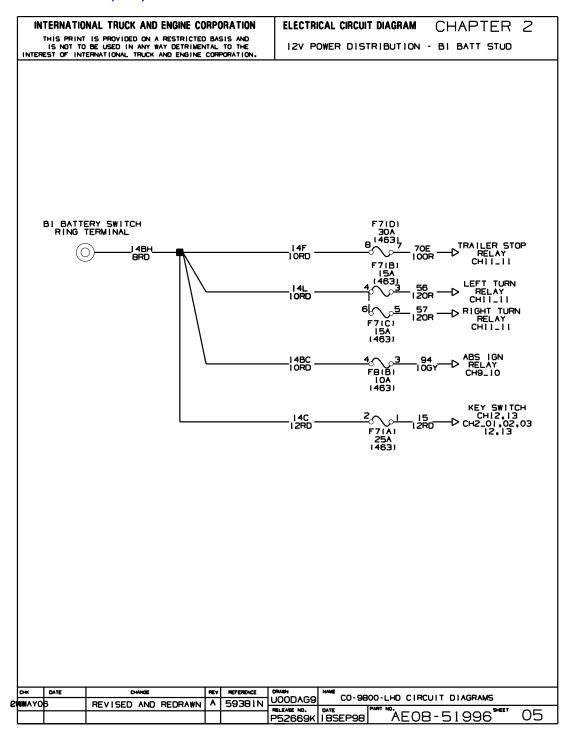


Figure 23 Battery, B1

2.6. BATTERY, B1, P. 6

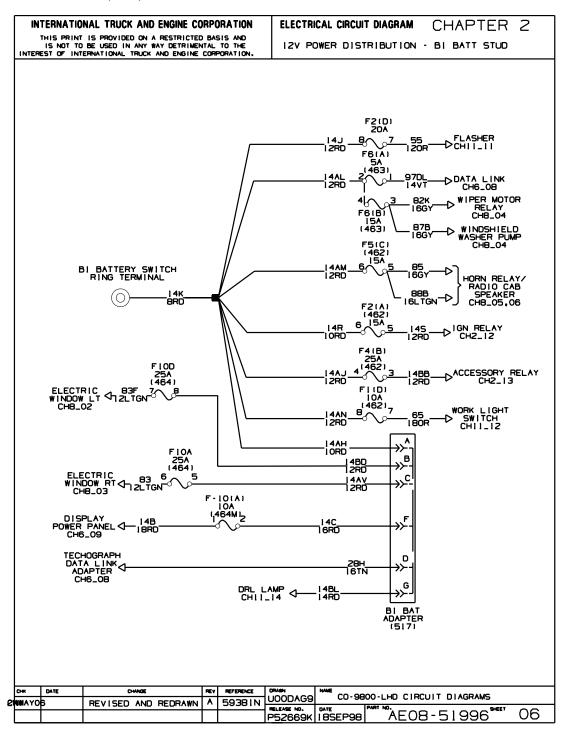


Figure 24 Battery, B1

2.7. BATTERY, B2, P. 7

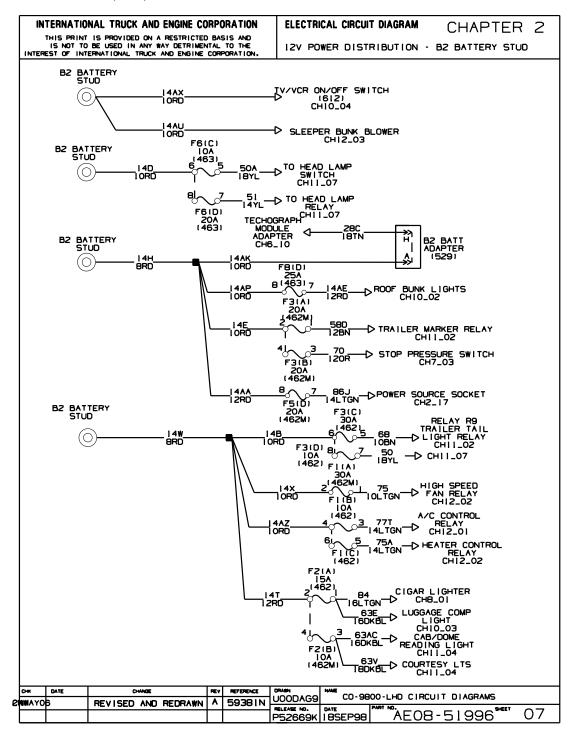


Figure 25 Battery, B2

2.8. GROUND, P. 8

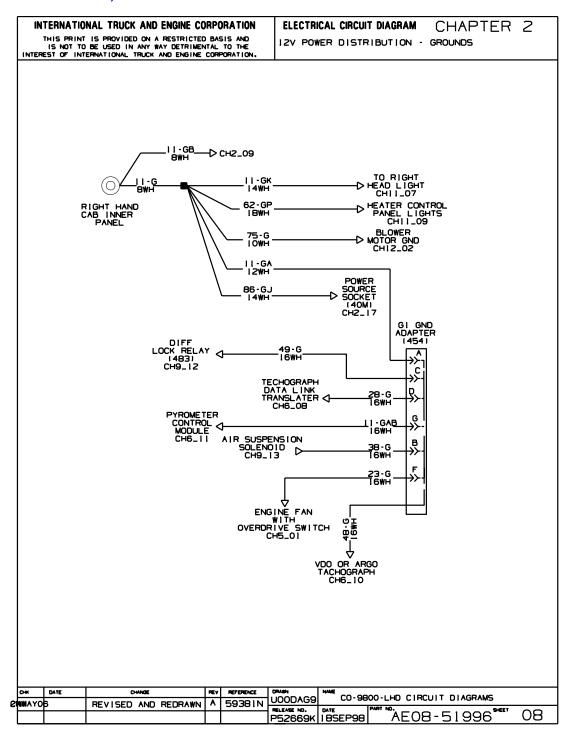


Figure 26 Ground

2.9. GROUND, P. 9

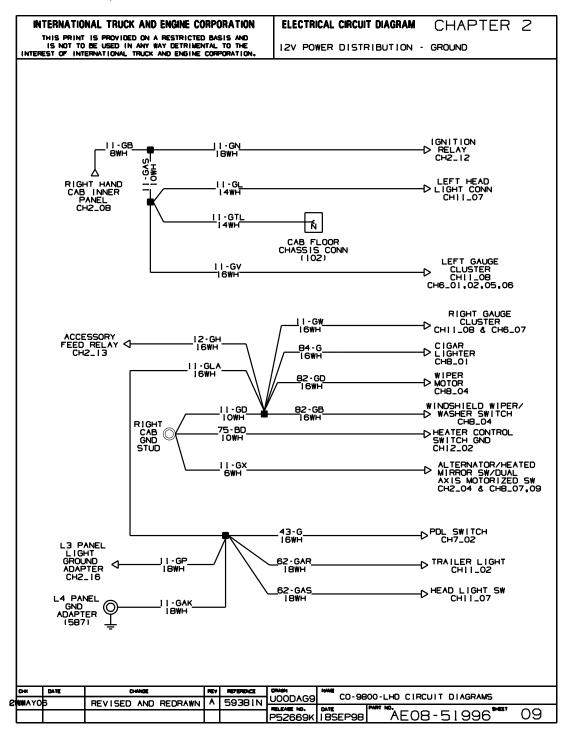


Figure 27 Ground

2.10. GROUNDS, P. 10

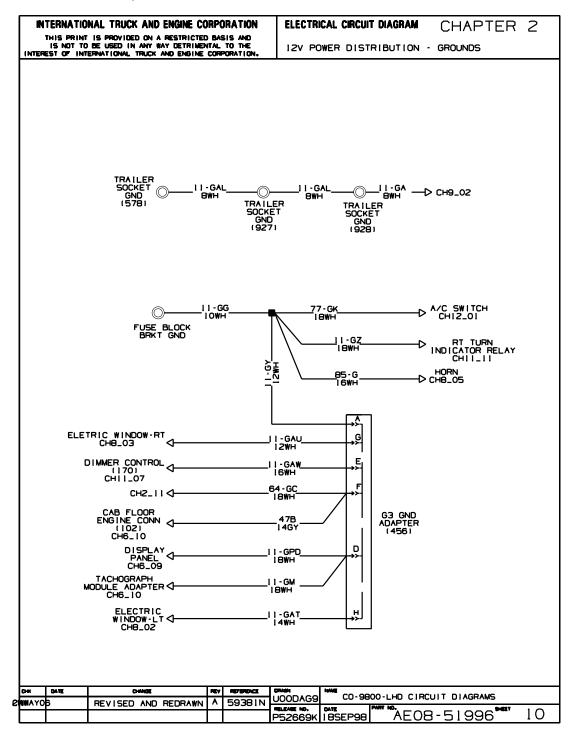


Figure 28 Grounds

2.11. GROUNDS, P. 11

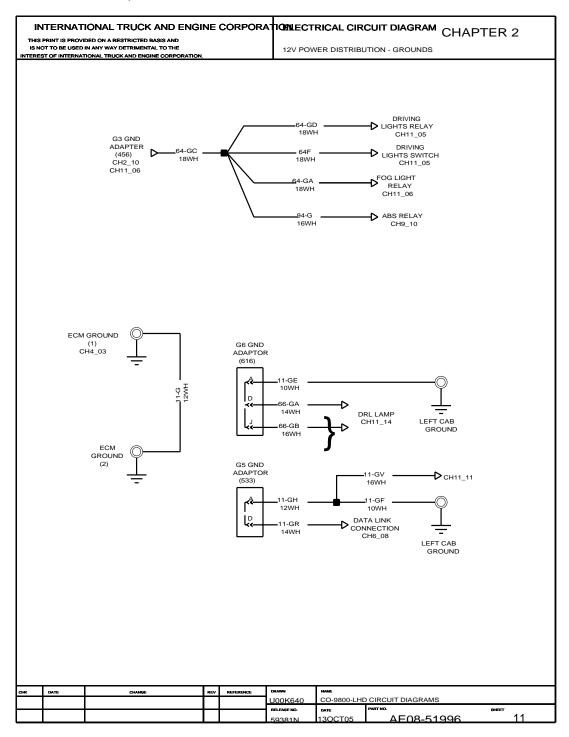


Figure 29 Grounds

2.12. IGNITION, P. 12

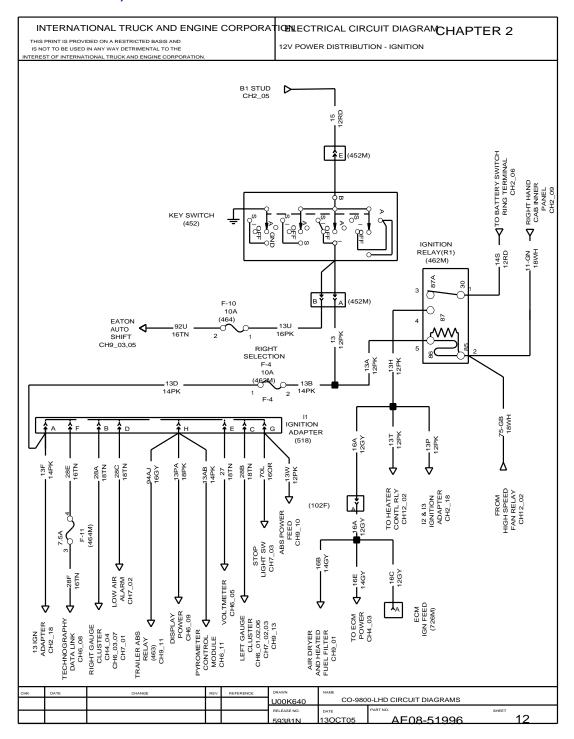


Figure 30 Ignition

2.13. ACCESSORY FEED, P. 13

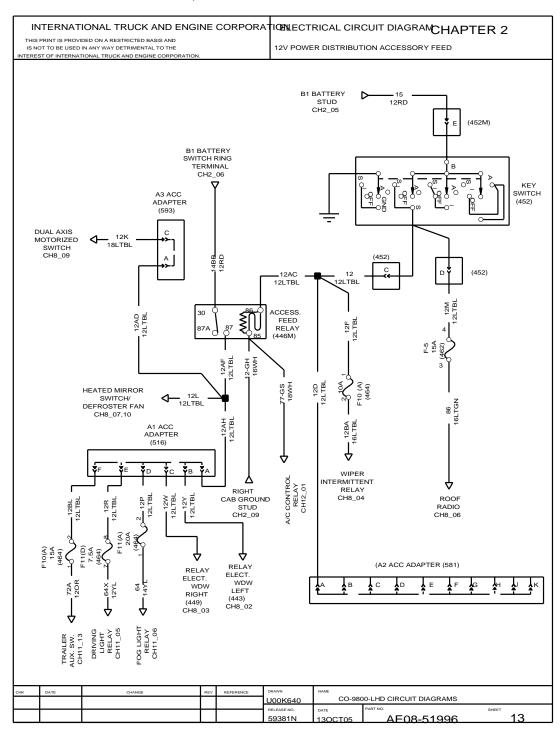


Figure 31 Accessory Feed

2.14. PANEL LIGHT FEED ADAPTER, P. 14

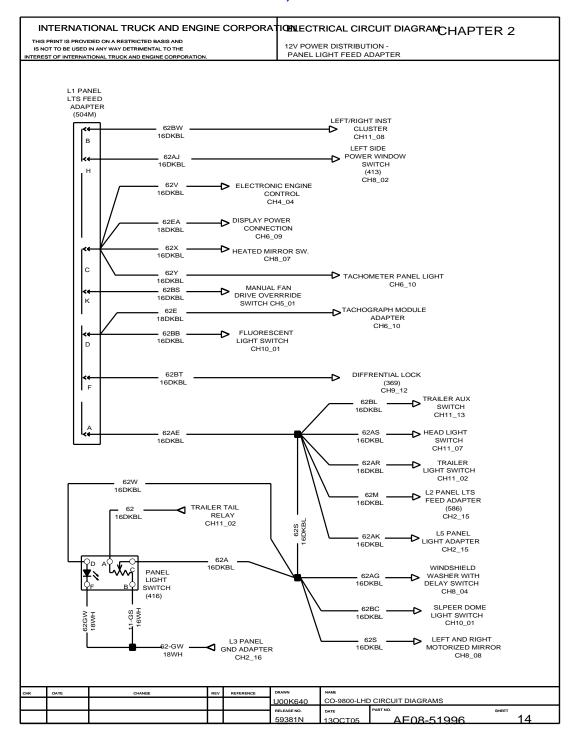


Figure 32 Panel Light Feed Adapter

2.15. PANEL LIGHT FEED ADAPTER, P. 15

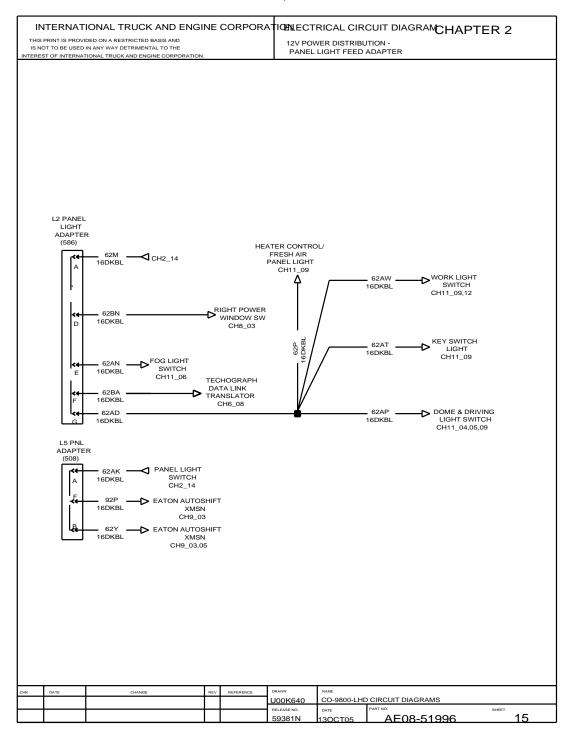


Figure 33 Panel Light Feed Adapter

2.16. PANEL LIGHT GROUND ADAPTER, P. 16

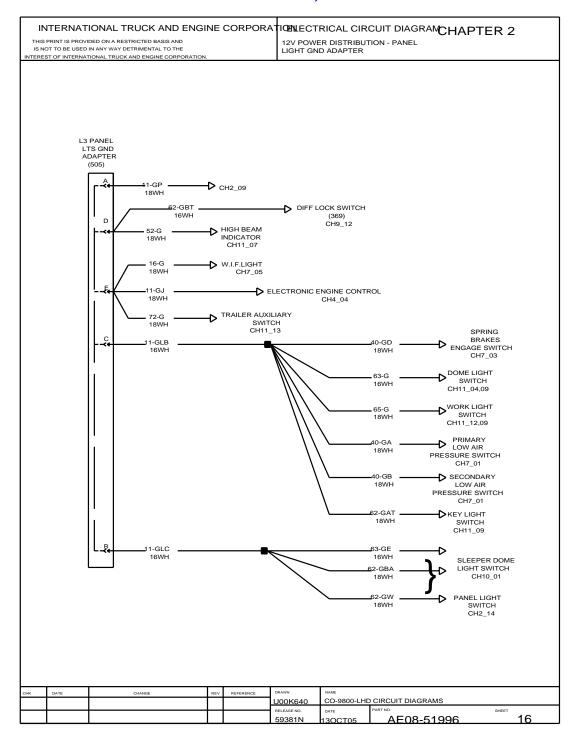


Figure 34 Panel Light Ground Adapter

2.17. POWER SOURCE SOCKET, P. 17

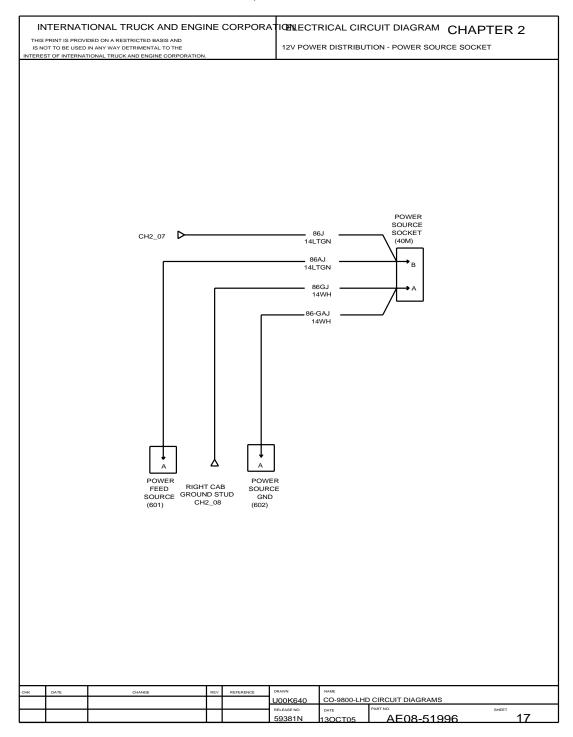


Figure 35 Power Source Socket

2.18. IGNITION FEED, P. 18

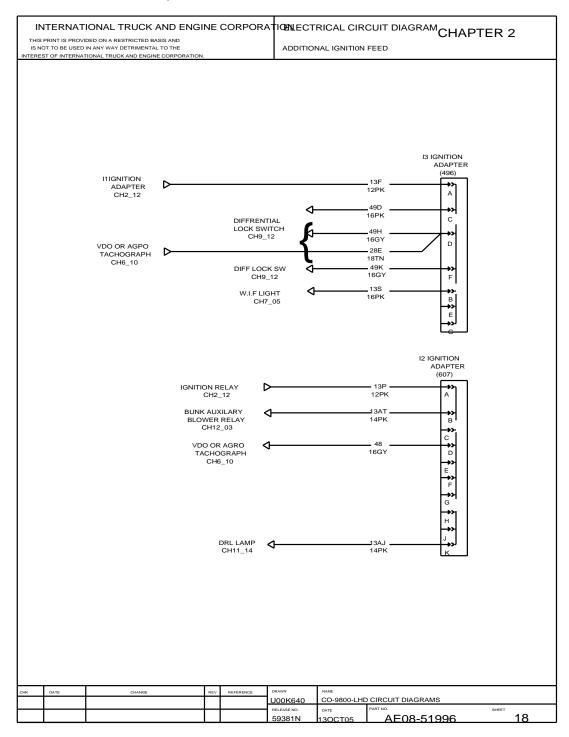


Figure 36 Ignition Feed

2.19. J1939 DATALINK, P. 19

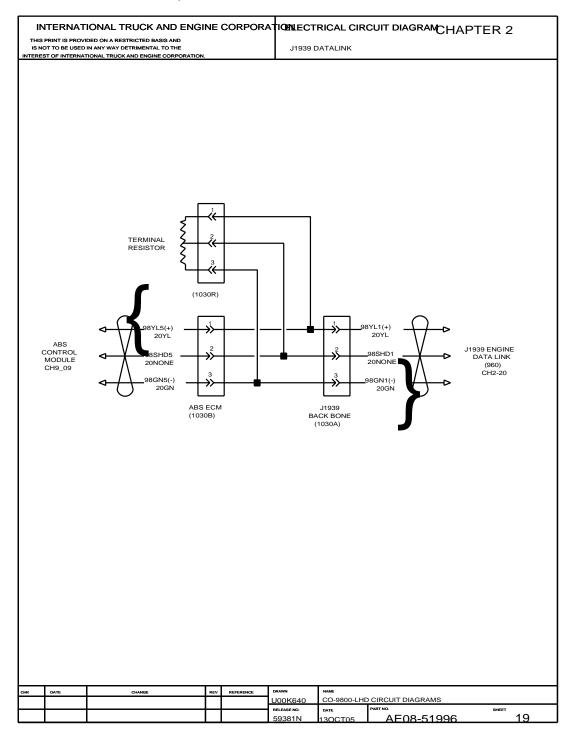


Figure 37 J1939 Datalink

2.20. J1939 DATALINK, P. 20

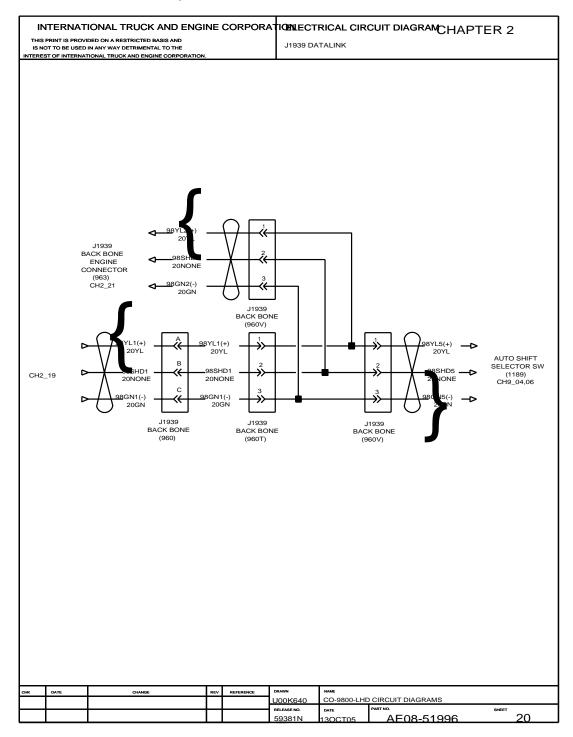


Figure 38 J1939 Datalink

2.21. J1939 DATALINK, P. 21

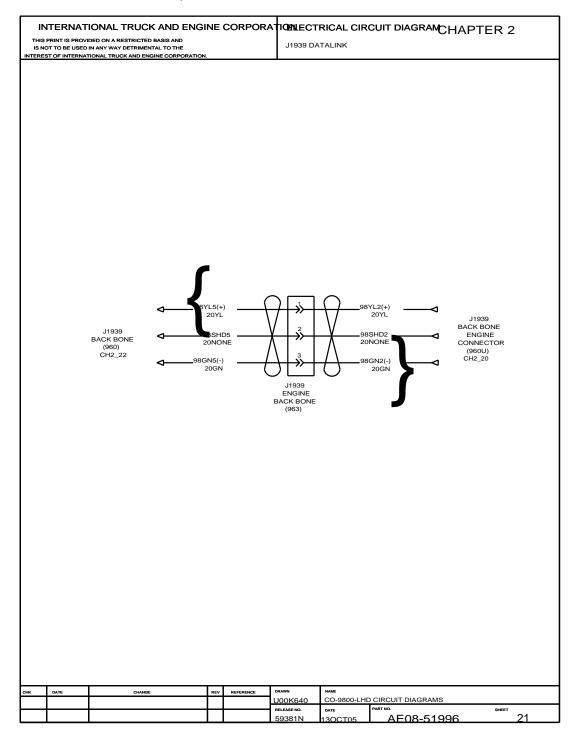


Figure 39 J1939 Datalink

2.22. J1939 DATALINK, P. 22

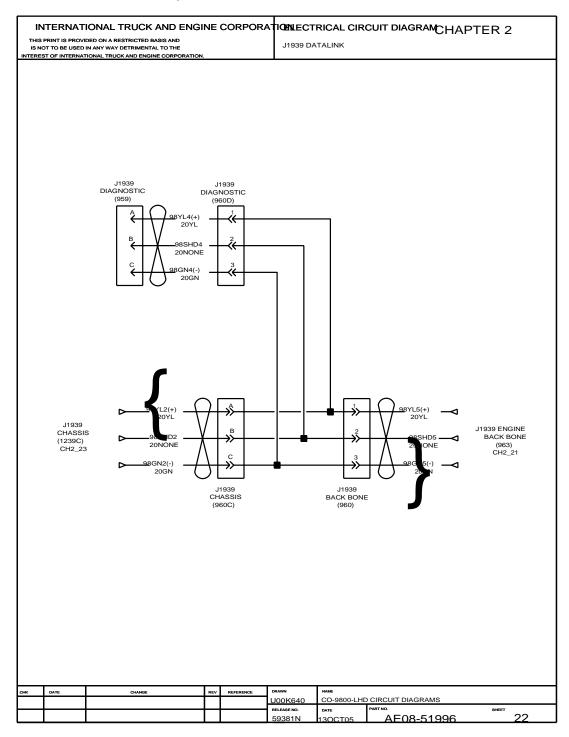


Figure 40 J1939 Datalink

2.23. J1939 DATALINK, P. 23

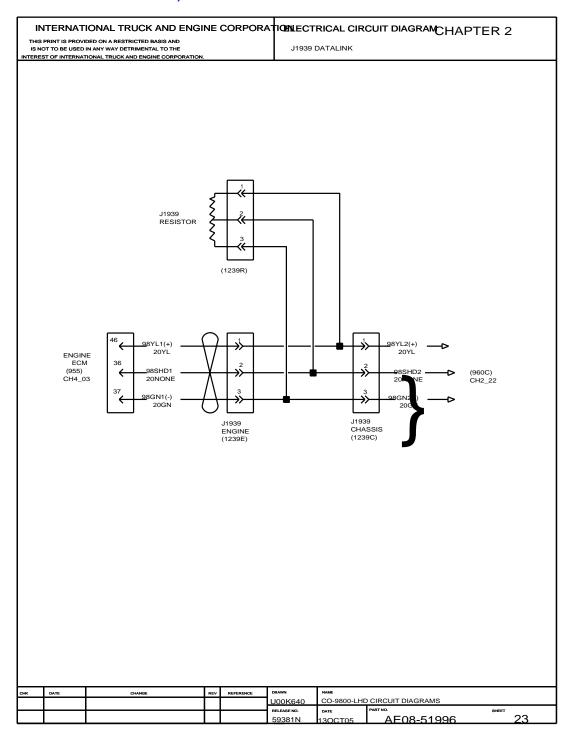


Figure 41 J1939 Datalink

3. 12 VOLT CHARGING AND CRANKING SYSTEM (LHD — CHAPTER 3)

3.1. WITH CUMMINS N14 ENGINE, P. 1

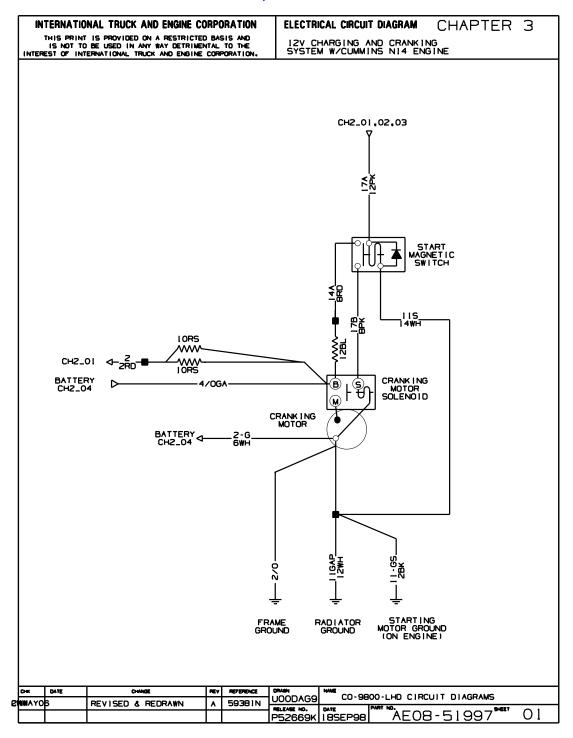


Figure 42 With Cummins N14 Engine

3.2. WITH CUMMINS N14 ENGINE WITH THERMAL OC, P. 2

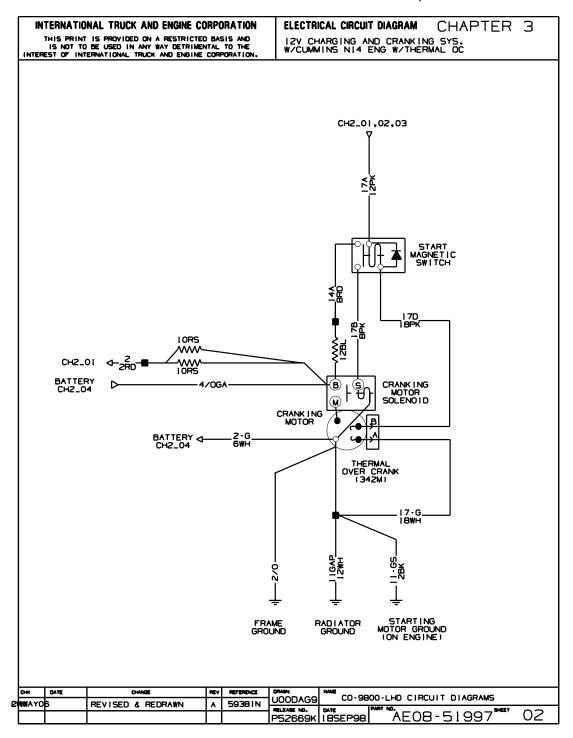


Figure 43 With Cummins N14 Engine with Thermal OC

3.3. WITH DETROIT DIESEL SERIES 60, P. 3

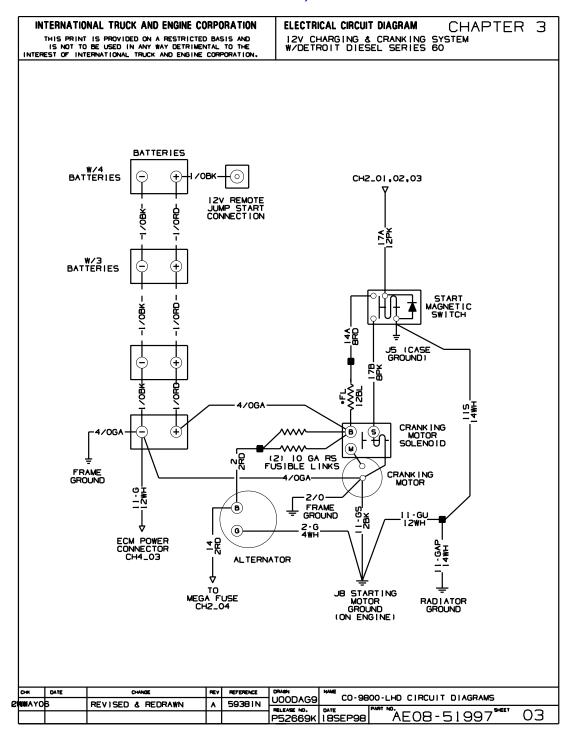


Figure 44 With Detroit Diesel Series 60

3.4. WITH THERMAL OC PROTECTION, P. 4

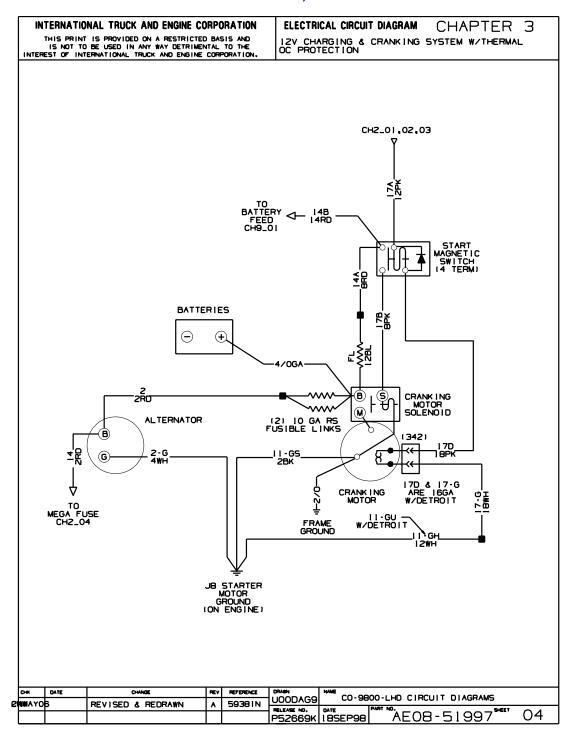


Figure 45 With Thermal OC Protection

4. ENGINES (LHD — CHAPTER 4)

4.1. CUMMINS ISX ELECTRONIC ENGINE CONTROL, P. 1

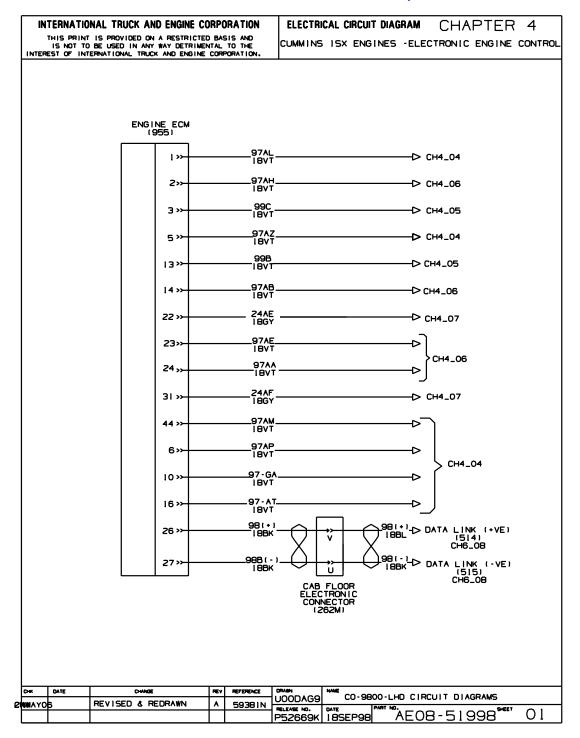


Figure 46 Cummins ISX Electronic Engine Control

4.2. CUMMINS ISM ELECTRONIC ENGINE CONTROL, P. 2

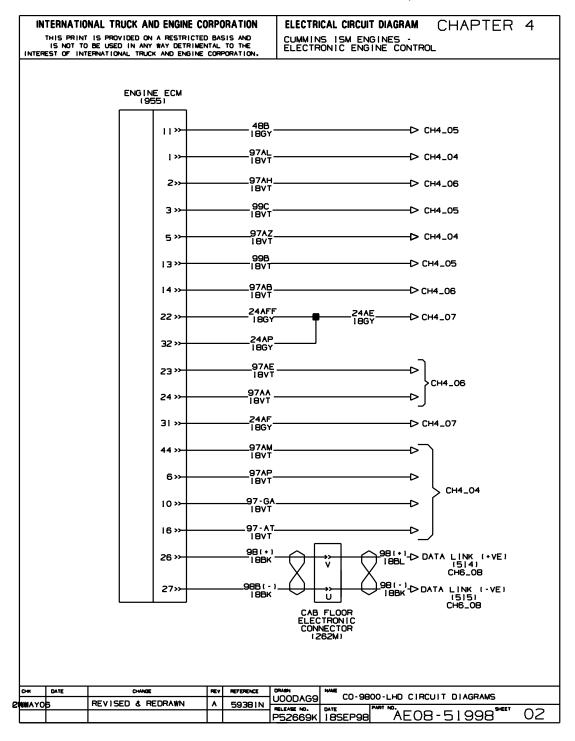


Figure 47 Cummins ISM Electronic Engine Control

4.3. CUMMINS ISM, ISX ELECTRONIC ENGINE CONTROL, P. 3

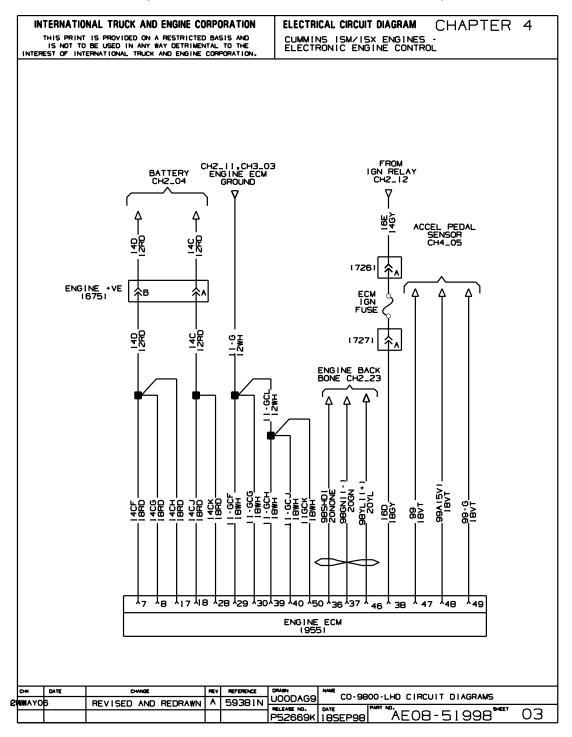


Figure 48 Cummins ISM, ISX Electronic Engine Control

4.4. CUMMINS ISM, ISX — ELECTRONIC ENGINE CONTROLS, P. 4

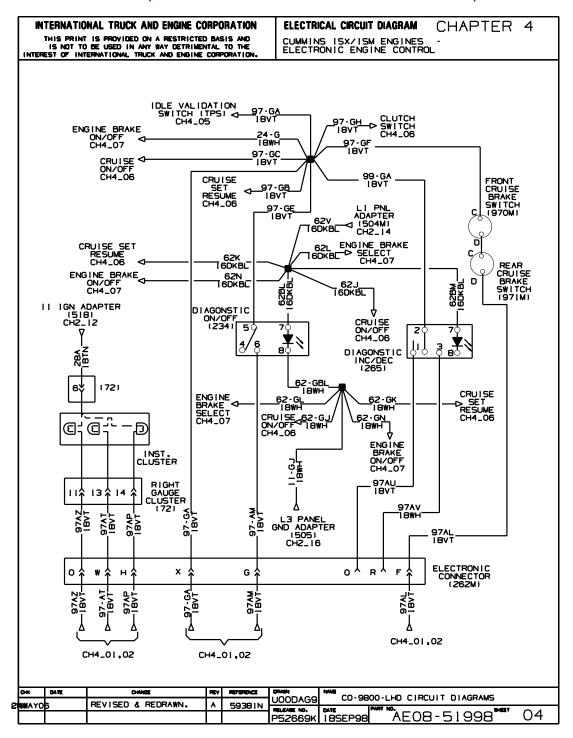


Figure 49 Cummins ISM, ISX – Electronic Engine Controls

4.5. CUMMINS ISM, ISX — ELECTRONIC ENGINE CONTROLS, P. 5

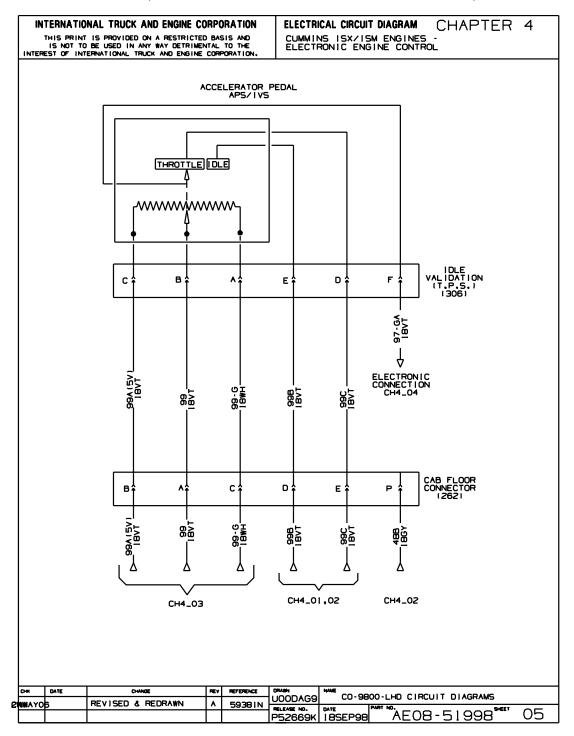


Figure 50 Cummins ISM, ISX – Electronic Engine Controls

4.6. CUMMINS ISX/ISM - CRUISE CONTROL, P. 6

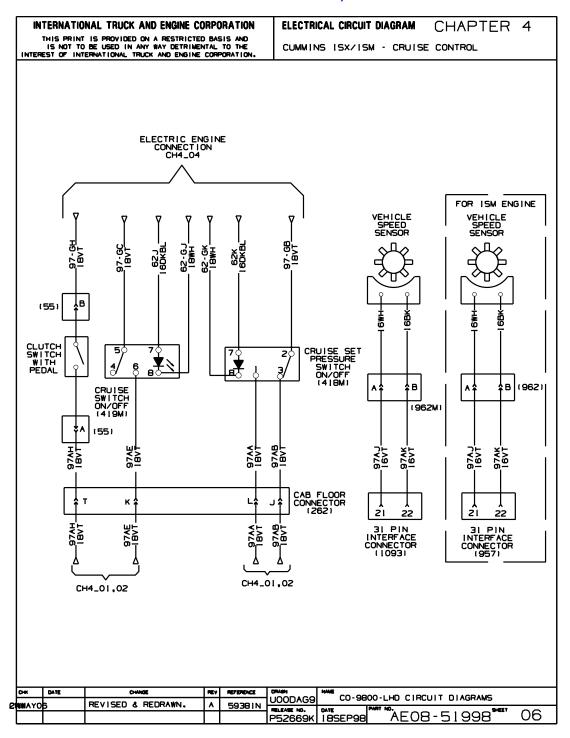


Figure 51 Cummins ISX/ISM - Cruise Control

4.7. CUMMINS ISX/ISM - ENGINE BRAKES, P. 7

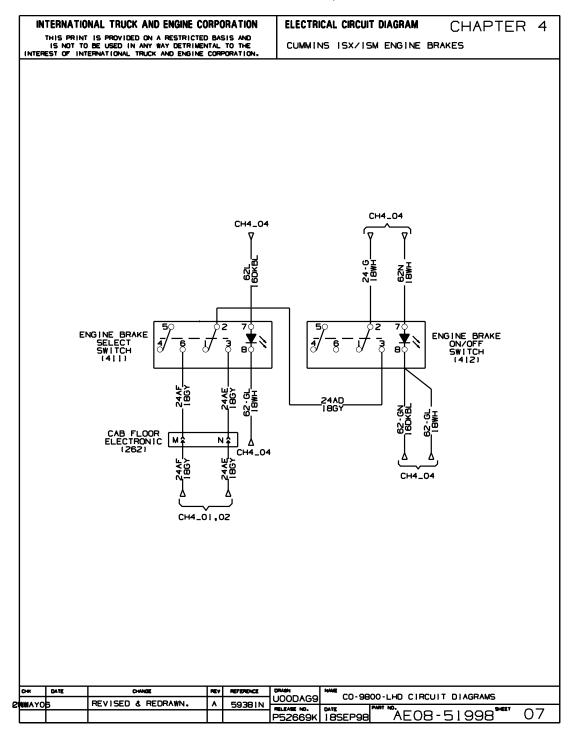


Figure 52 Cummins ISX/ISM - Engine Brakes

5. FANS (LHD — CHAPTER 5)

5.1. HORTON AND KYSOR ENGINE FAN WITH CUMMINS ISX WITH OVERRIDE SWITCH, P. 1

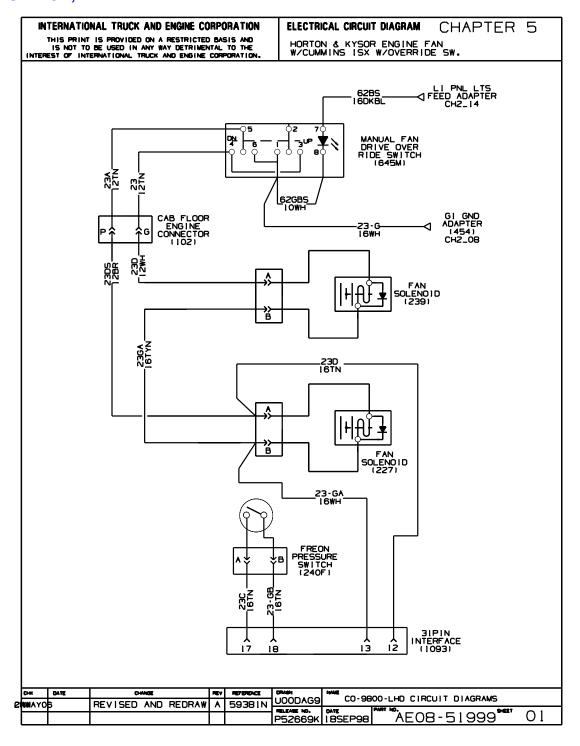


Figure 53 Horton and Kysor Engine Fan With Cummins ISX With Override Switch

5.2. REMOTE CONTROL FAN SOL, P. 2

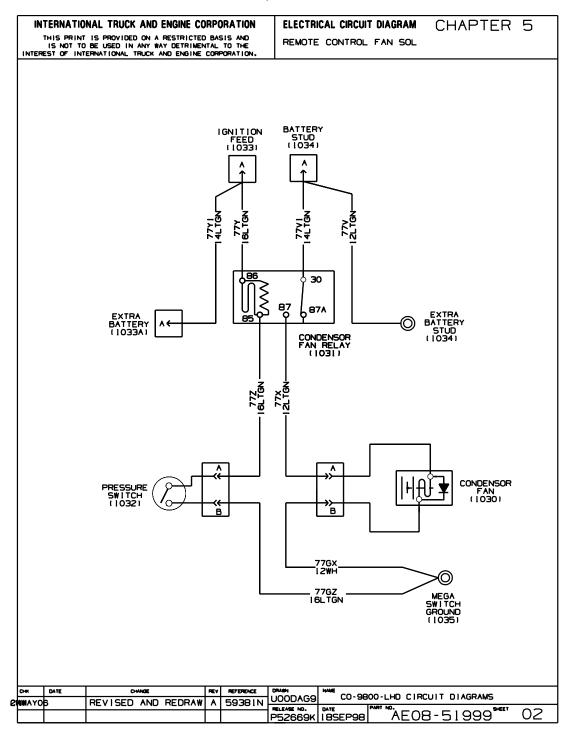


Figure 54 Remote Control Fan Sol

6. GAUGES AND SYSTEMS (LHD — CHAPTER 6)

6.1. ENGINE OIL TEMPERATURE GAUGE, P. 1

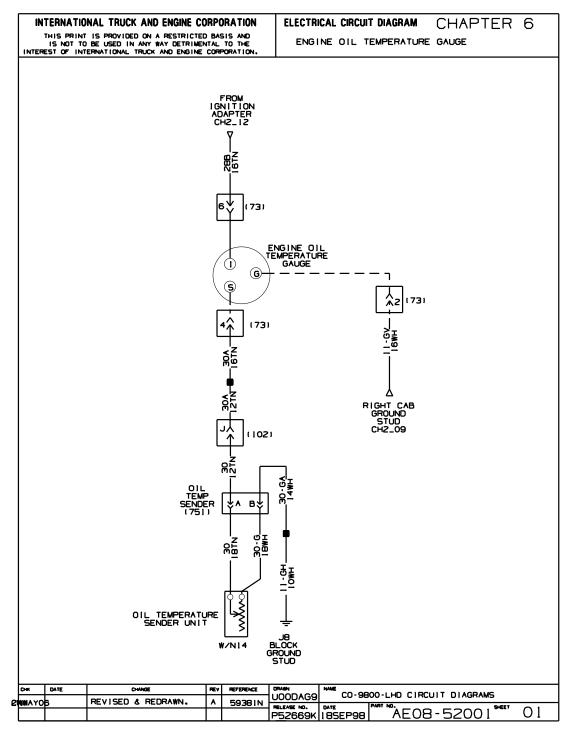


Figure 55 Engine Oil Temperature Gauge

6.2. ENGINE WATER TEMPERATURE GAUGE, P. 2

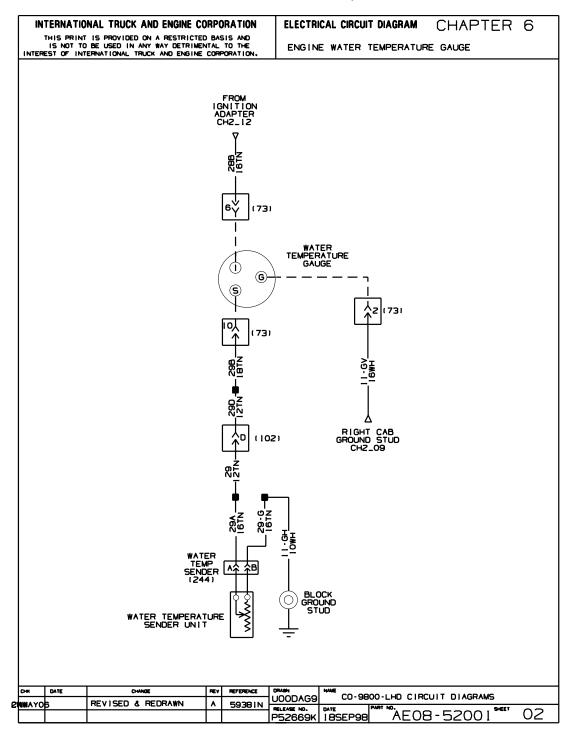


Figure 56 Engine Water Temperature Gauge

6.3. FUEL LEVEL GAUGE, P. 3

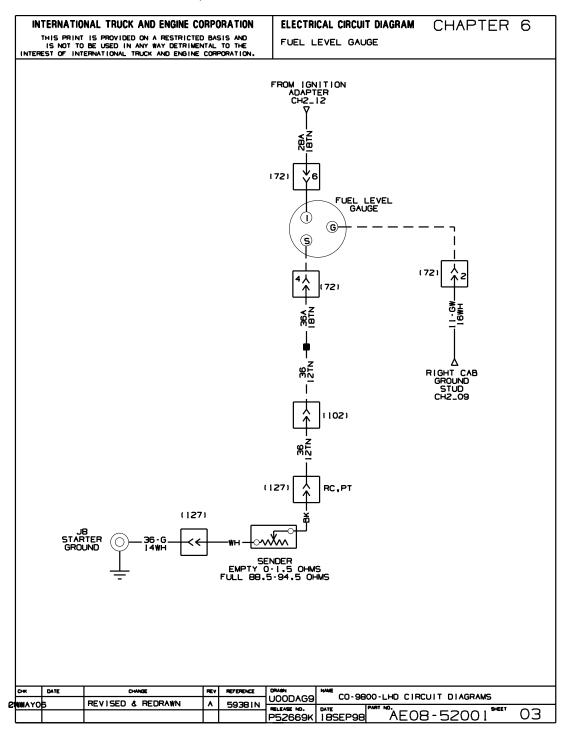


Figure 57 Fuel Level Gauge

6.4. AGRO SERIAL DATA LINK TRANSLATOR, P. 4

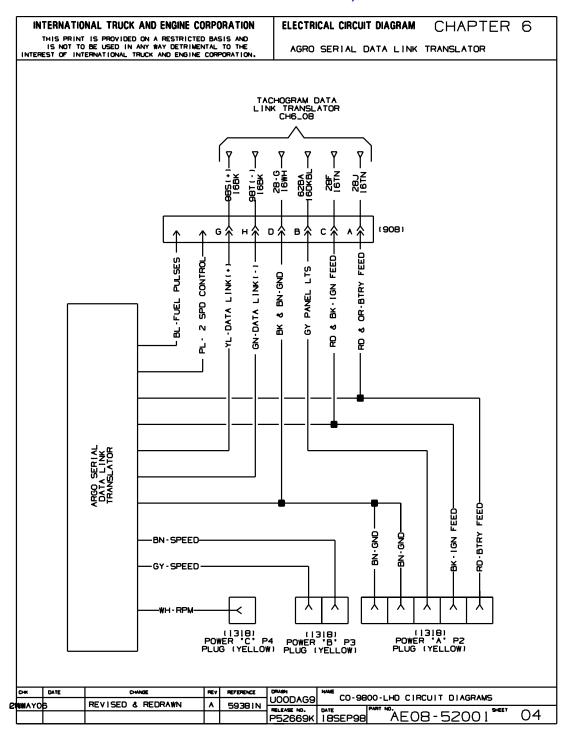


Figure 58 Agro Serial Data Link Translator

6.5. VOLTMETER GAUGE, P. 5

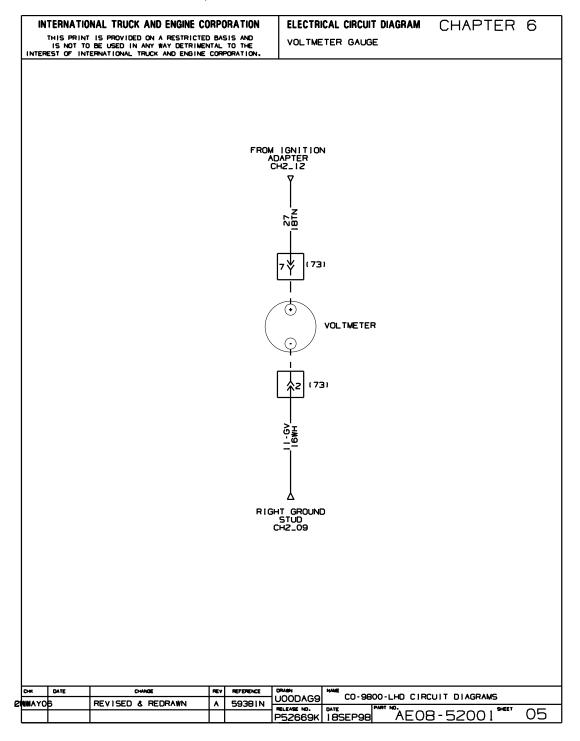


Figure 59 Voltmeter Gauge

6.6. ENGINE OIL PRESSURE GAUGE (OPTIONAL), P. 6

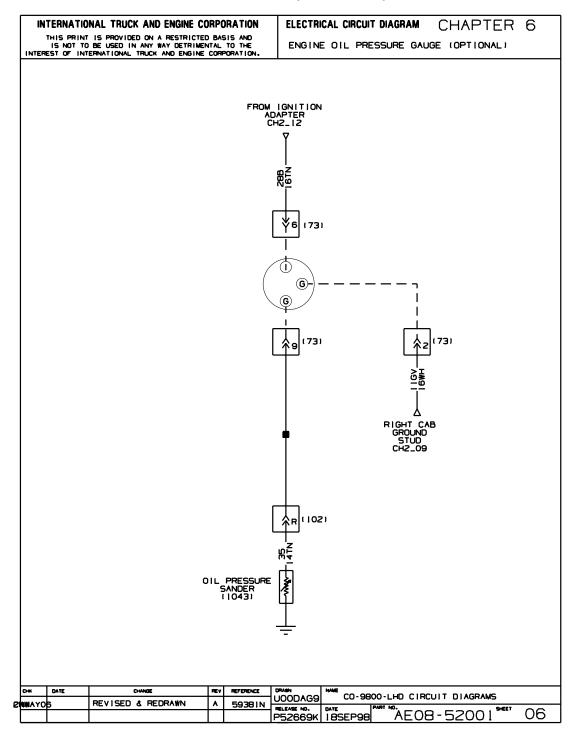


Figure 60 Engine Oil Pressure Gauge (Optional)

6.7. TRANSMISSION OIL TEMPERATURE GAUGE, P. 7

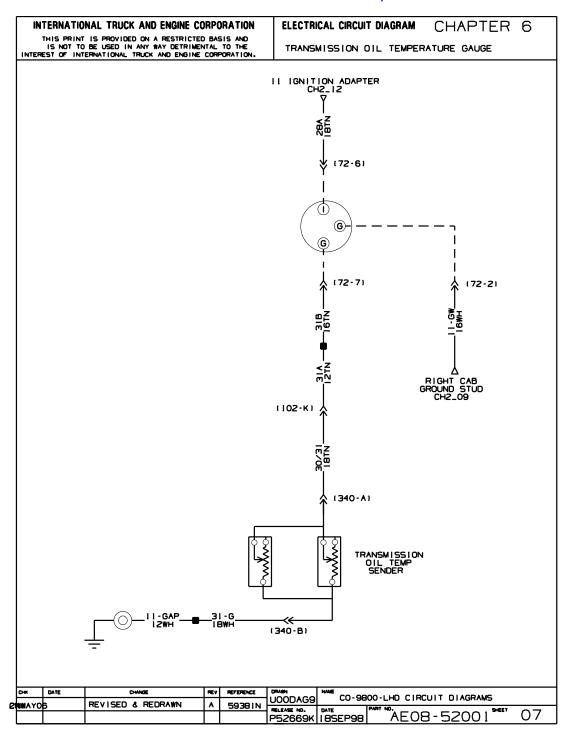


Figure 61 Transmission Oil Temperature Gauge

6.8. TACHOGRAPH DATALINK TRANSLATOR, P. 8

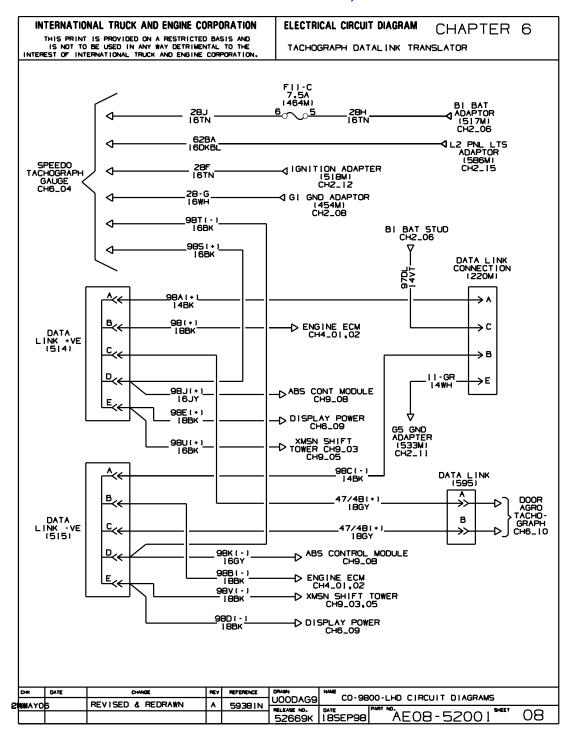


Figure 62 Tachograph Datalink Translator

6.9. CUMMINS ROAD RELAY DISPLAY, P. 9

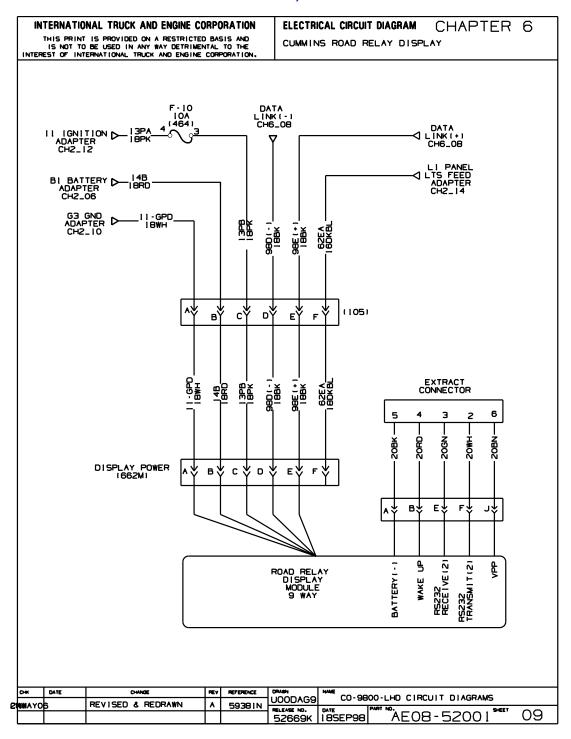


Figure 63 Cummins Road Relay Display

6.10. ARGO VDO OR TACHOGRAPH, P. 10

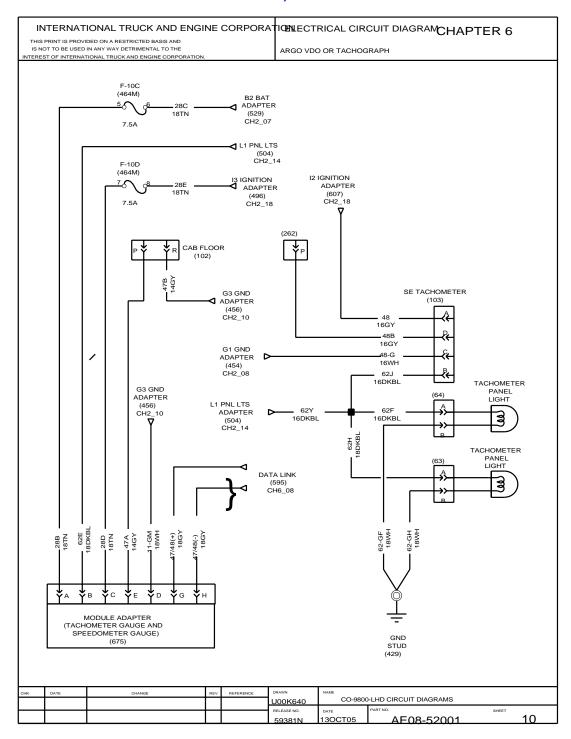


Figure 64 Argo VDO or Tachograph

6.11. PYROMETER GAUGE, P. 11

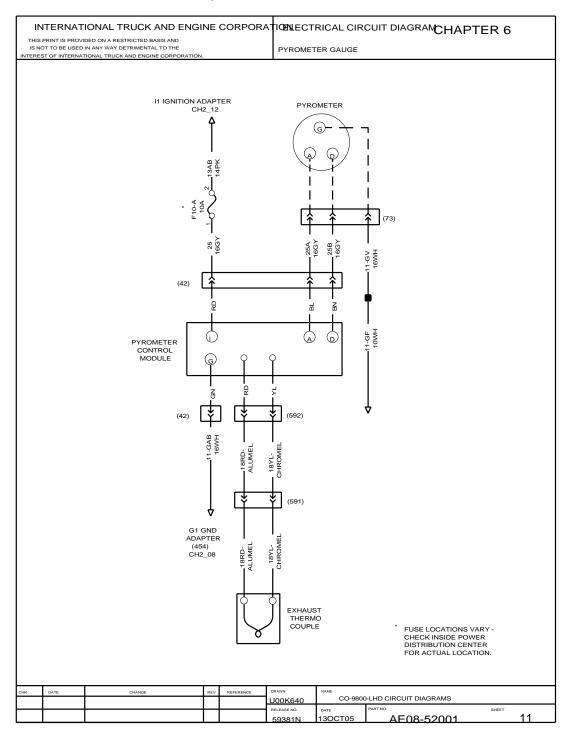


Figure 65 Pyrometer Gauge

7. WARNING LIGHTS (LHD — CHAPTER 7)

7.1. LOW AIR PRESSURE WARNING LIGHT, P. 1

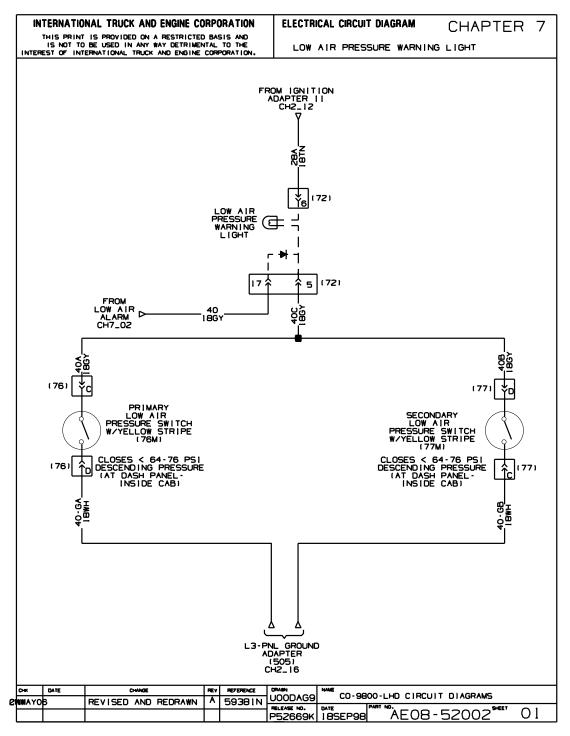


Figure 66 Low Air Pressure Warning Light

7.2. PDL WARNING LIGHT AND ALARM, P. 2

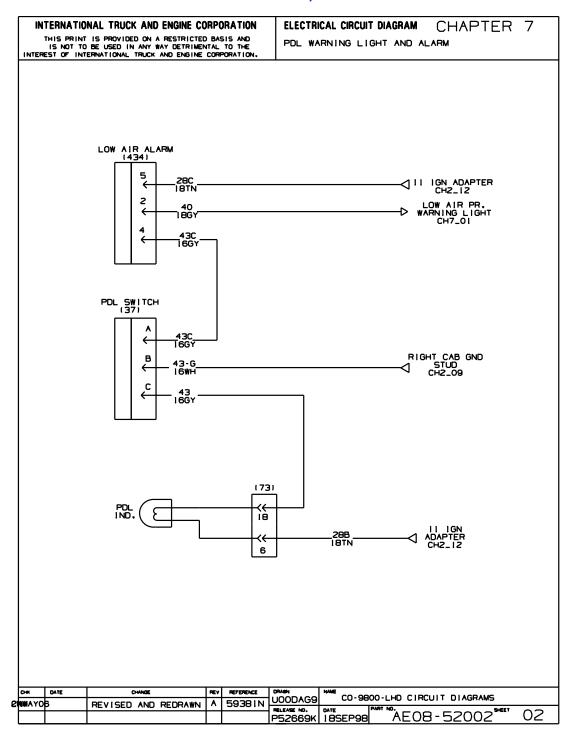


Figure 67 PDL Warning Light and Alarm

7.3. STOP AND PARKING WARNING LIGHT, P. 3

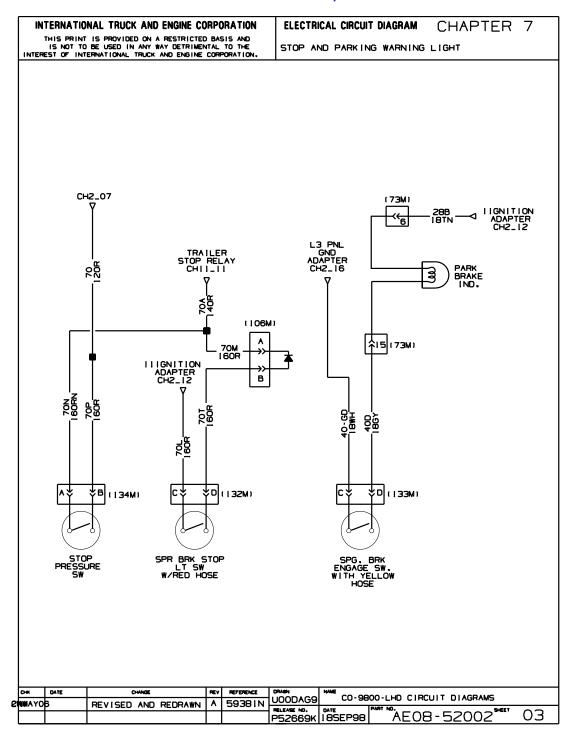


Figure 68 Stop and Parking Warning Light

7.4. PDL JUMPER, P. 4

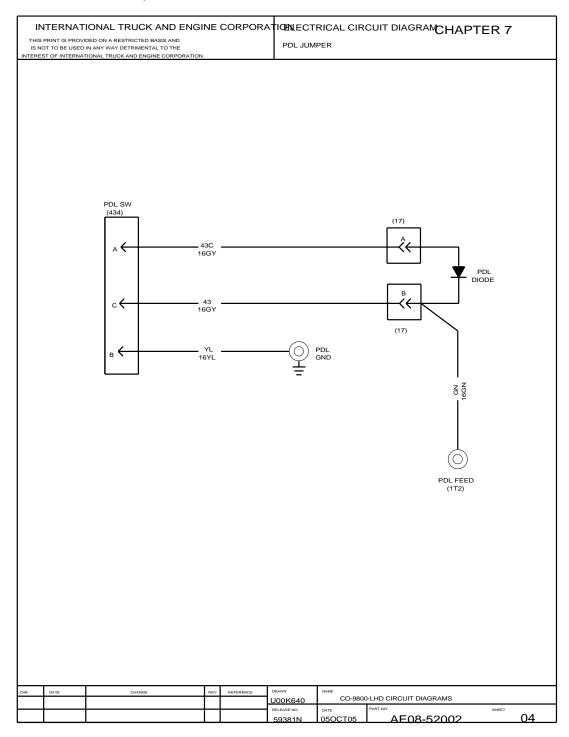


Figure 69 PDL Jumper

7.5. WATER IN FUEL, P. 5

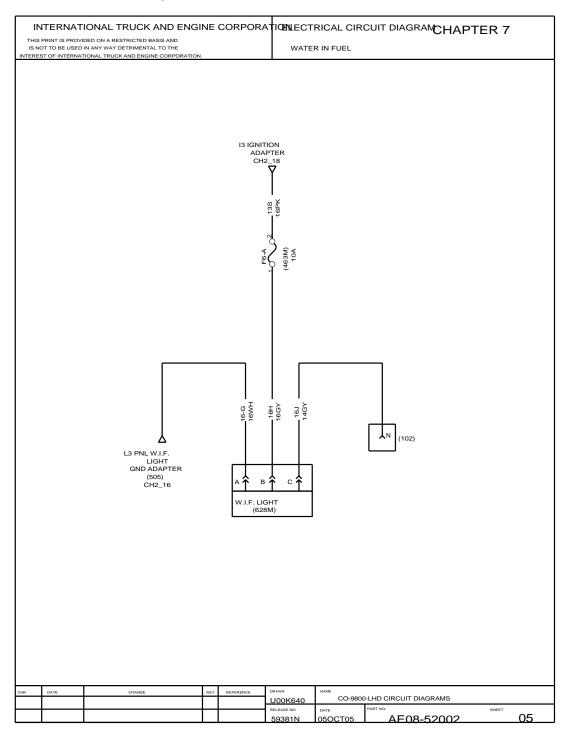


Figure 70 Water in Fuel

8. CAB ACCESSORIES (LHD — CHAPTER 8)

8.1. CIGAR LIGHTER, P. 1

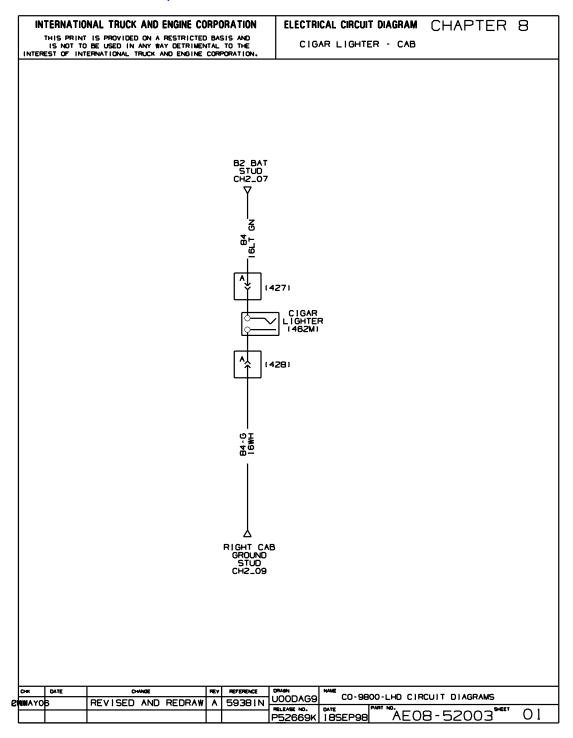


Figure 71 Cigar Lighter

8.2. ELECTRIC WINDOW — LT, P. 2

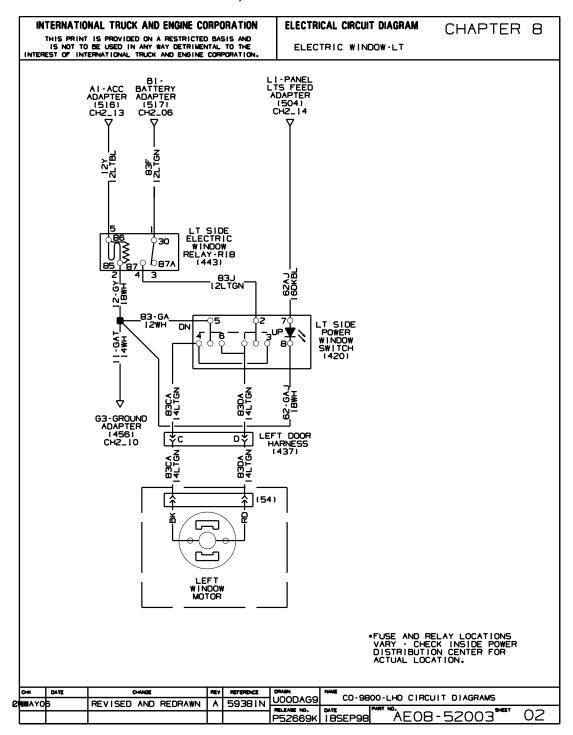


Figure 72 Electric Window — LT

8.3. ELECTRIC WINDOW — RIGHT, P. 3

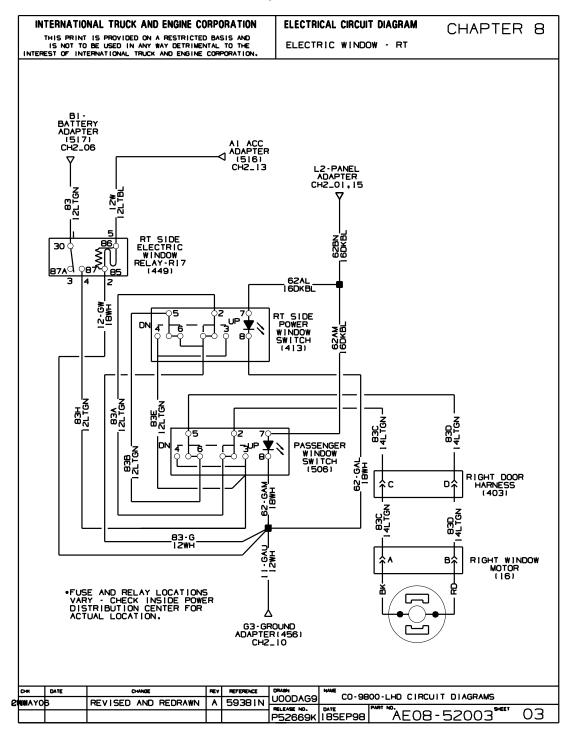


Figure 73 Electric Window — Right

8.4. ELECTRIC WINDSHIELD WIPERS WITH INTERMITTENT WIPE AND WASH, P. 4

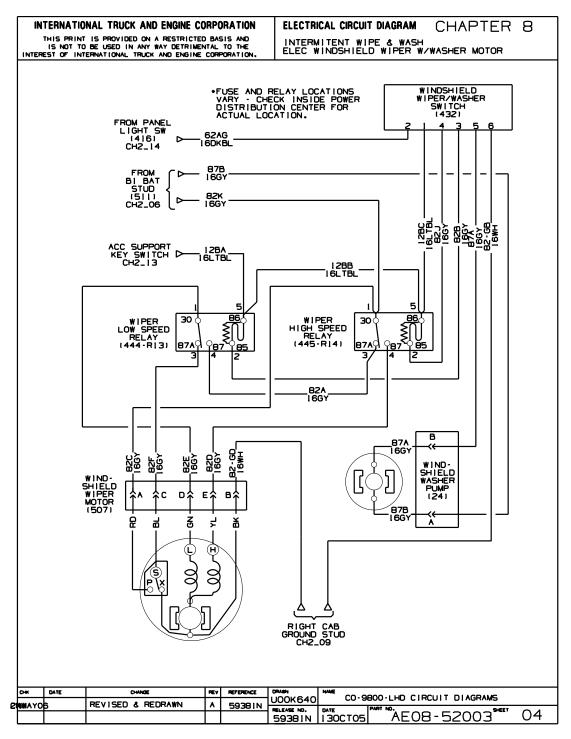


Figure 74 Electric Windshield Wipers with Intermittent Wipe and Wash

8.5. HORN, P. 5

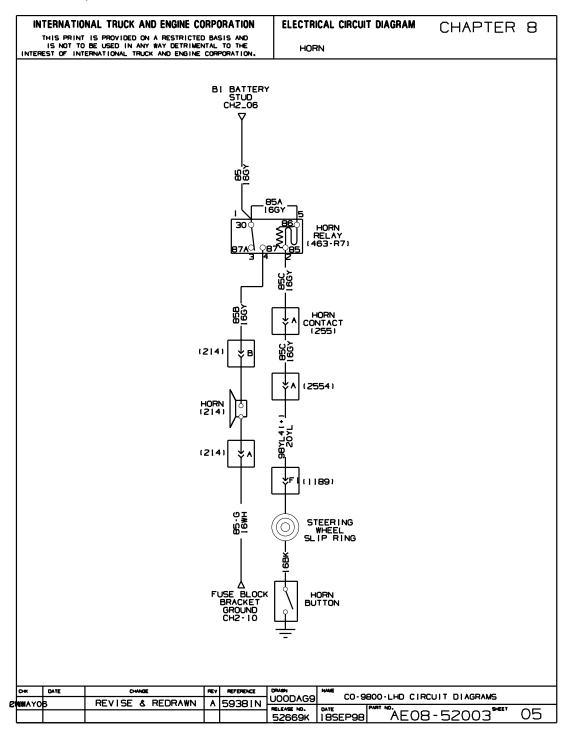


Figure 75 Horn

8.6. RADIO CAB SPEAKER, P. 6

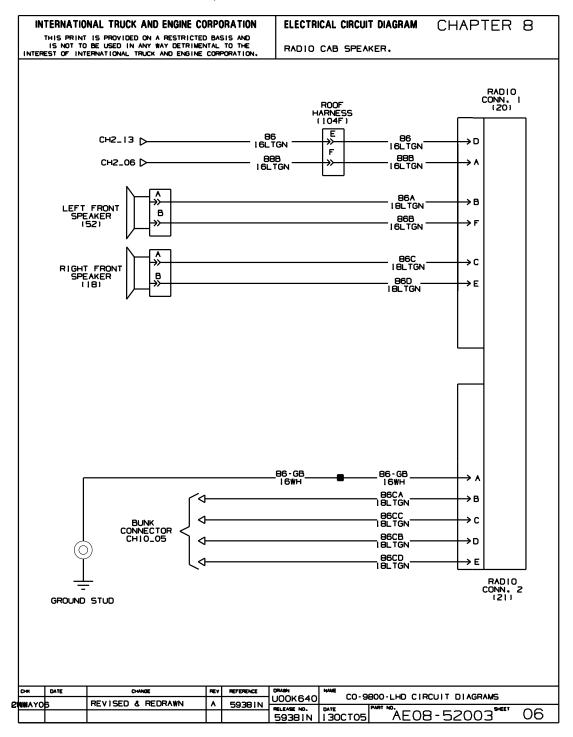


Figure 76 Radio Cab Speaker

8.7. HEATED MIRROR LIGHT, P. 7

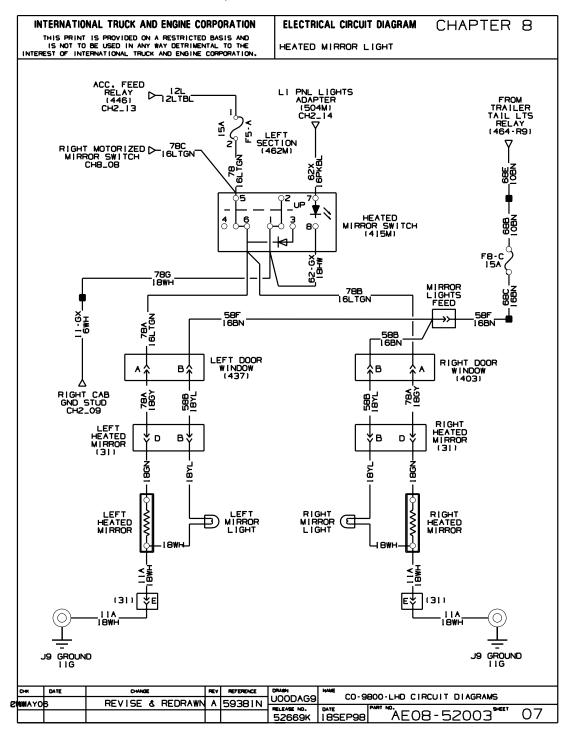


Figure 77 Heated Mirror Light

8.8. LEFT AND RIGHT MOTORIZED MIRROR, P. 8

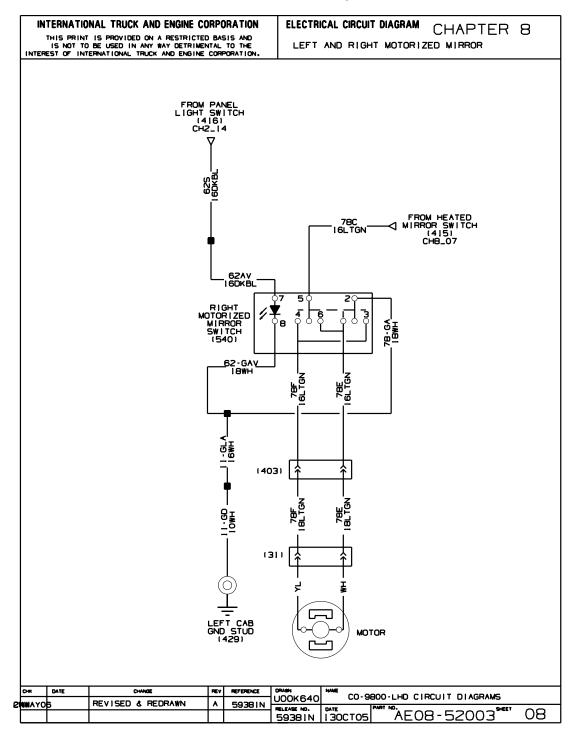


Figure 78 Left and Right Motorized Mirror

8.9. DUAL AXIS MOTORIZED MIRROR, P. 9

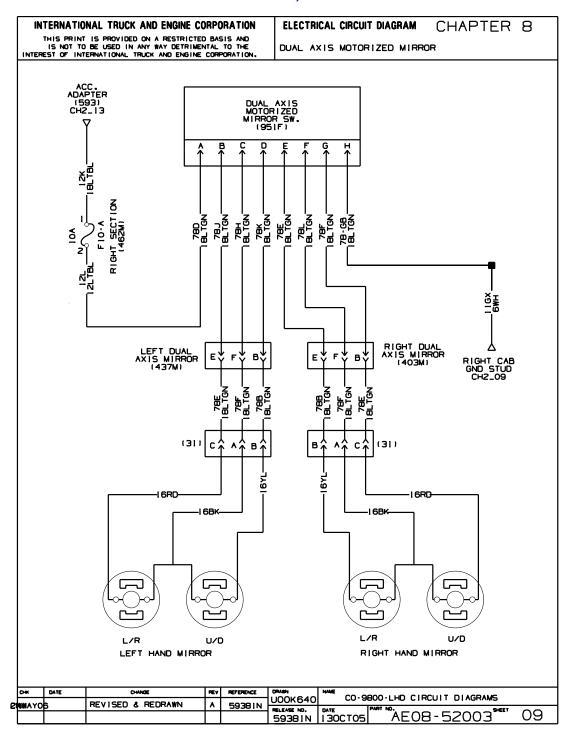


Figure 79 Dual Axis Motorized Mirror

8.10. DEFROSTER FAN, P. 10

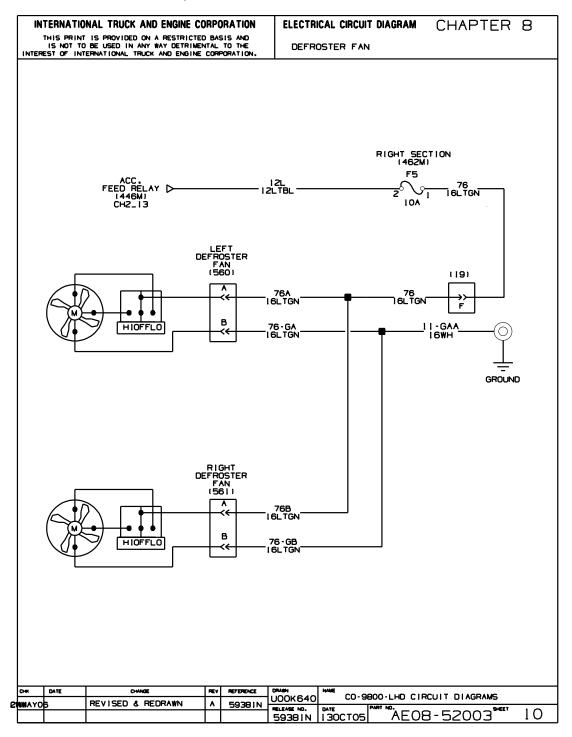


Figure 80 Defroster Fan

9. CHASSIS ACCESSORIES (LHD — CHAPTER 9)

9.1. AIR DRYER AND HEATED FUEL FILTER, P. 1

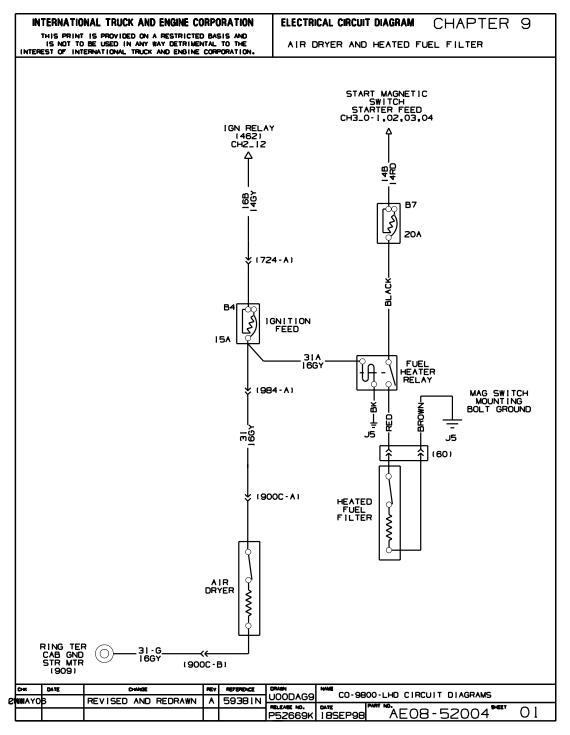


Figure 81 Air Dryer and Heated Fuel Filter

9.2. TRAILER SOCKET, P. 2

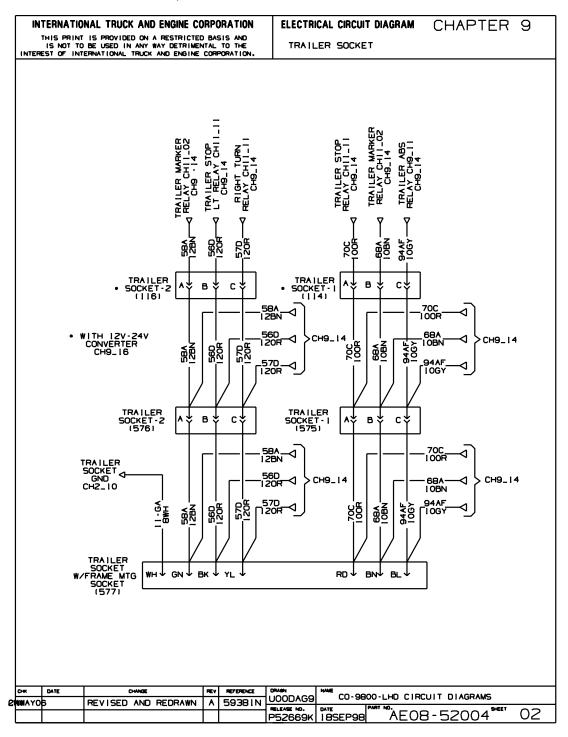


Figure 82 Trailer Socket

9.3. EATON AUTO SHIFT TRANSMISSION, P. 3

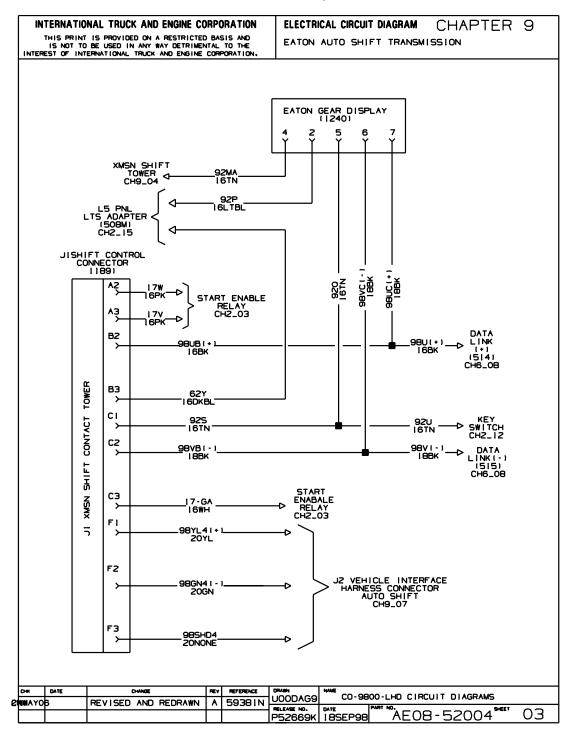


Figure 83 Eaton Auto Shift Transmission

9.4. EATON AUTO SHIFT TRANSMISSION (CONT.), P. 4

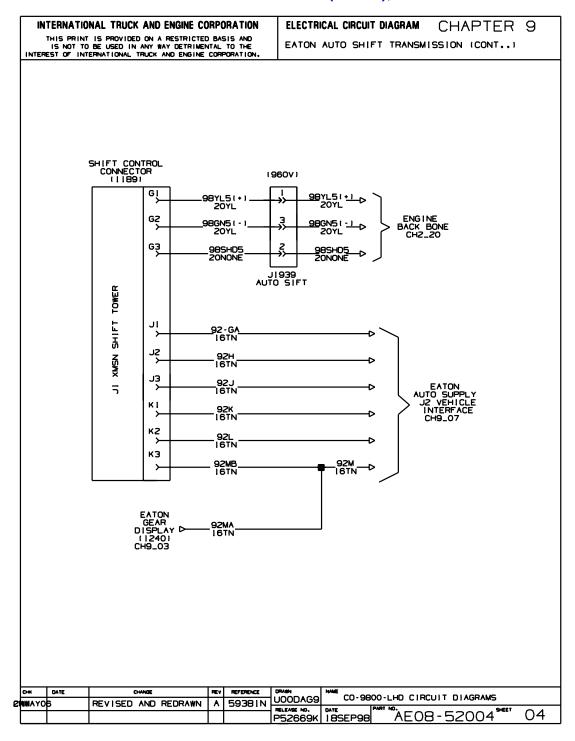


Figure 84 Eaton Auto Shift Transmission (cont.)

9.5. EATON AUTO SHIFT-2 TRANSMISSION, P. 5

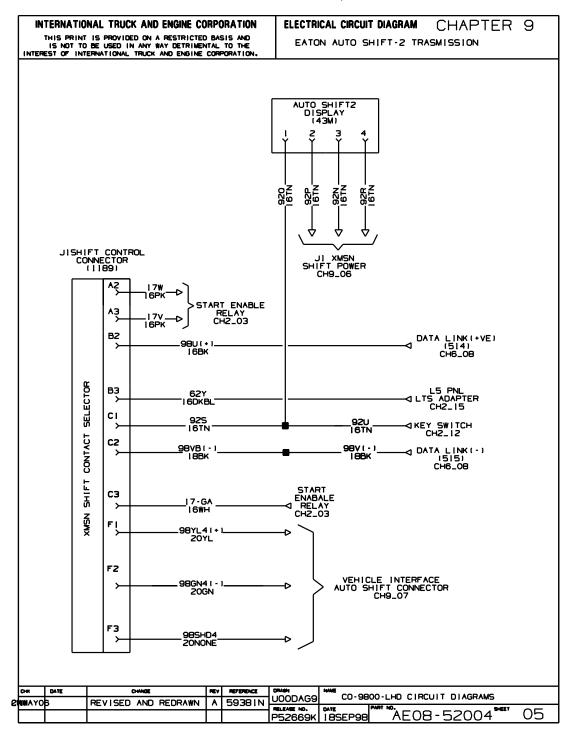


Figure 85 Eaton Auto Shift-2 Transmission

9.6. EATON AUTO SHIFT TRANSMISSION, P. 6

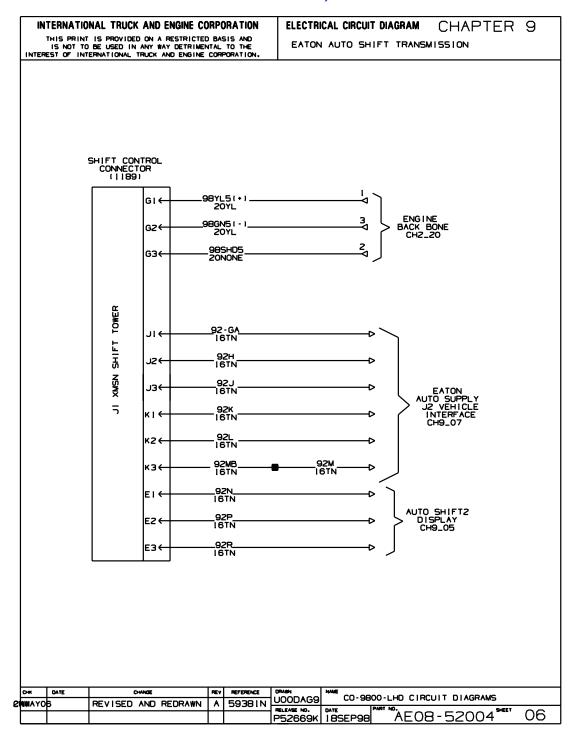


Figure 86 Eaton Auto Shift Transmission

9.7. EATON AUTO SHIFT TRANSMISSION — ECM, P. 7

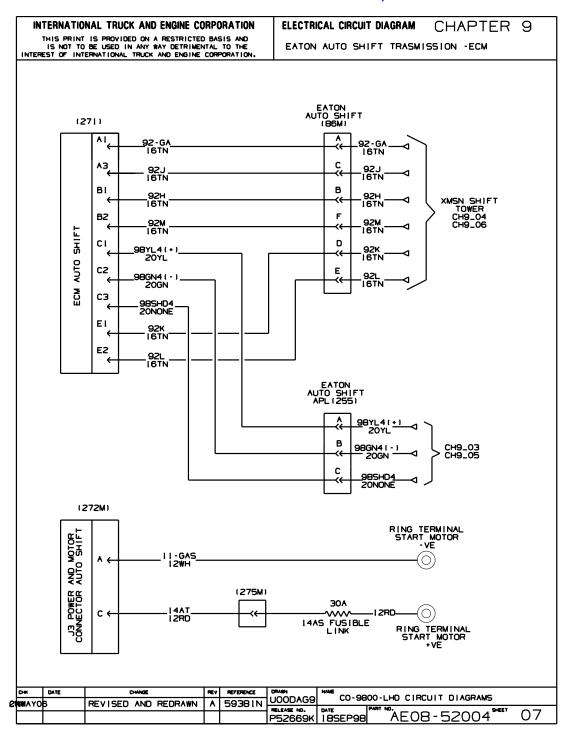


Figure 87 Eaton Auto Shift Transmission — ECM

9.8. WITH ABS CONTROLLER MODULE WITH AUTO TRACTION CONTROL, P. 8

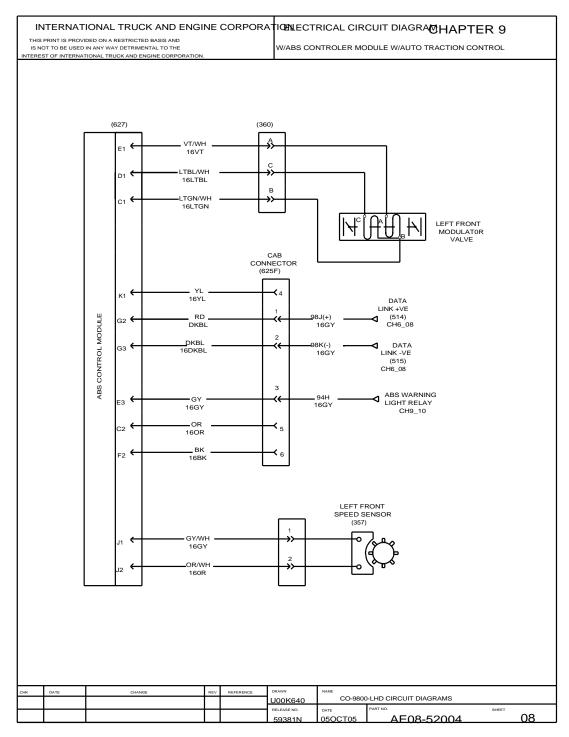


Figure 88 With ABS Controller Module with Auto Traction Control

9.9. ABS CONTROL MODULE, P. 9

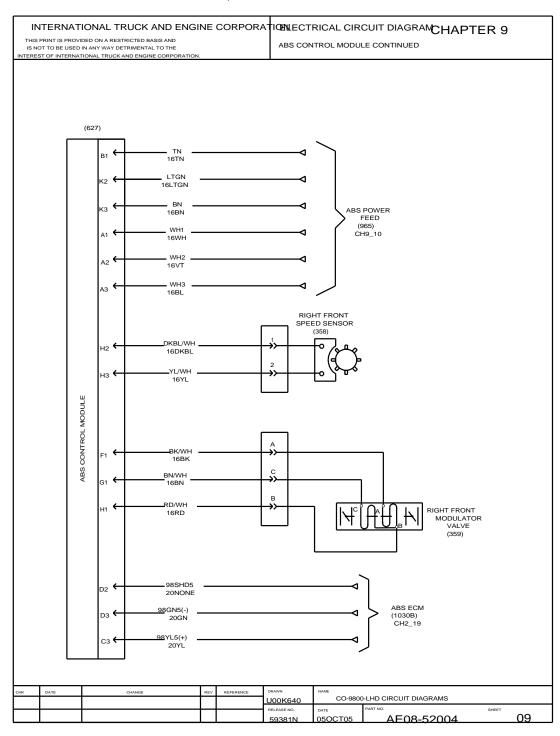


Figure 89 ABS Control Module

9.10. ABS POWER FEED AND WARNING LIGHTS, P. 10

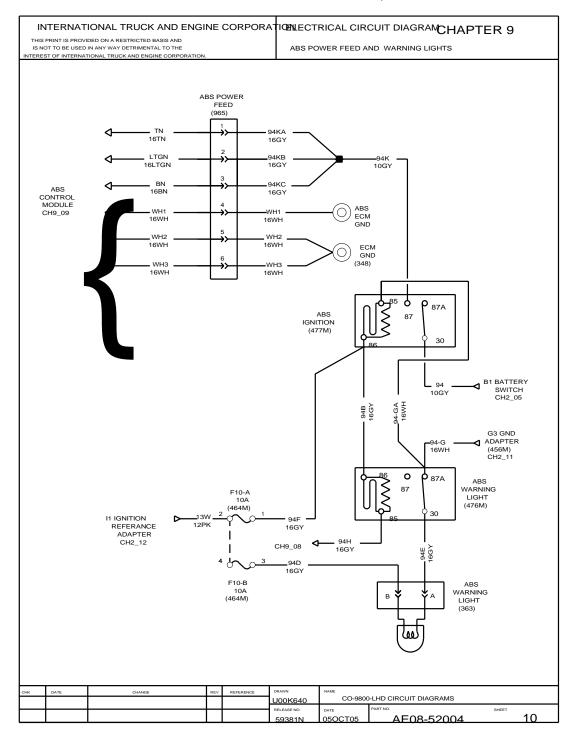


Figure 90 ABS Power Feed and Warning Lights

9.11. TRAILER ABS FEED, P. 11

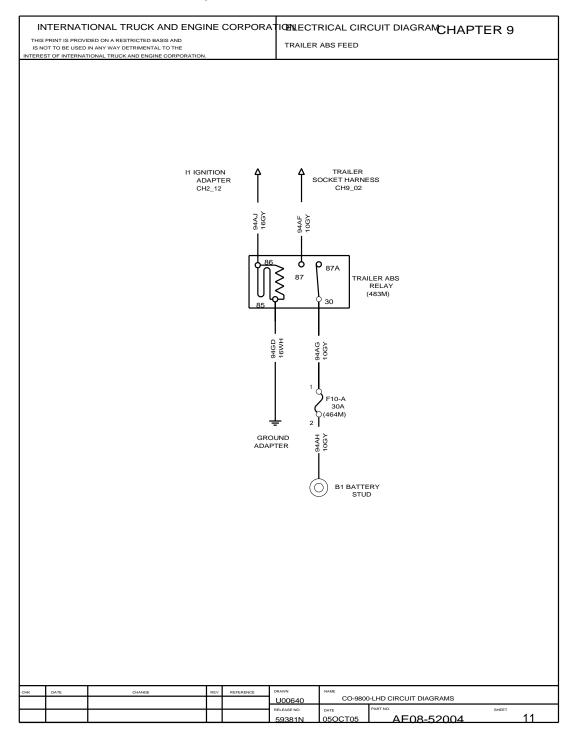


Figure 91 Trailer ABS Feed

9.12. WITH ELEC OVER AIR DRIVE CTRLD LOCKING DIFF CTRLS W/AIR SLI, P. 12

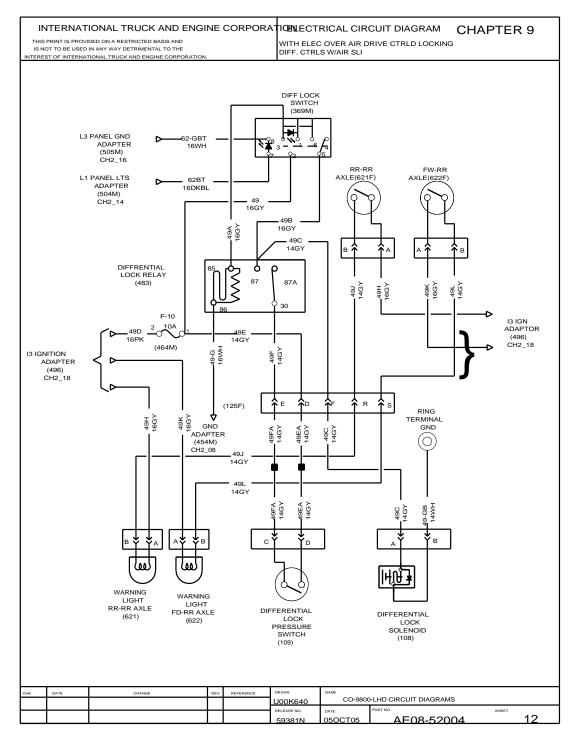


Figure 92 With Elec Over Air Drive Ctrld Locking Diff Ctrls w/Air SLI

9.13. AIR SUSPENSION WARNING LIGHT, P. 13

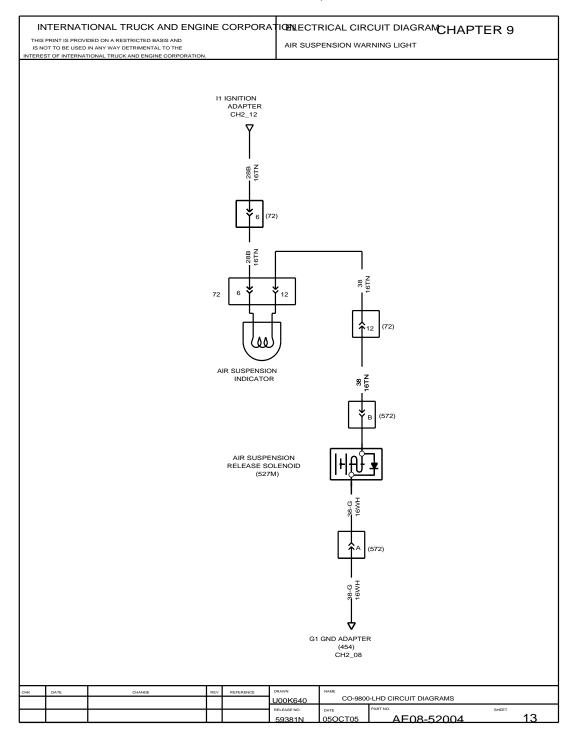


Figure 93 Air Suspension Warning Light

9.14. CHASSIS PASS THROUGH FOR TRAILER CONNECTION, P. 14

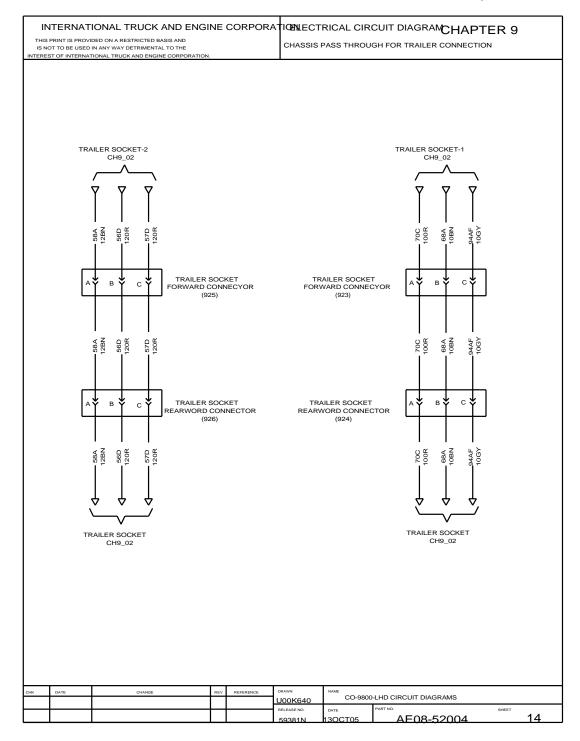


Figure 94 Chassis Pass through for Trailer Connection

9.15. CAB LIFT PUMP WITH ELECTRIC ASSISTANCE PUMP, P. 15

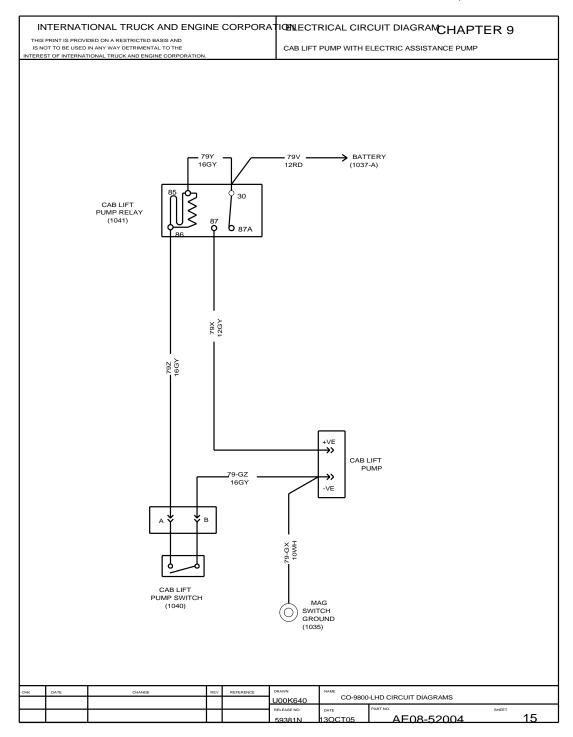


Figure 95 Cab Lift Pump with Electric Assistance Pump

9.16. TRAILER AUXILIARY 12V-24V CONVERTER, P. 16

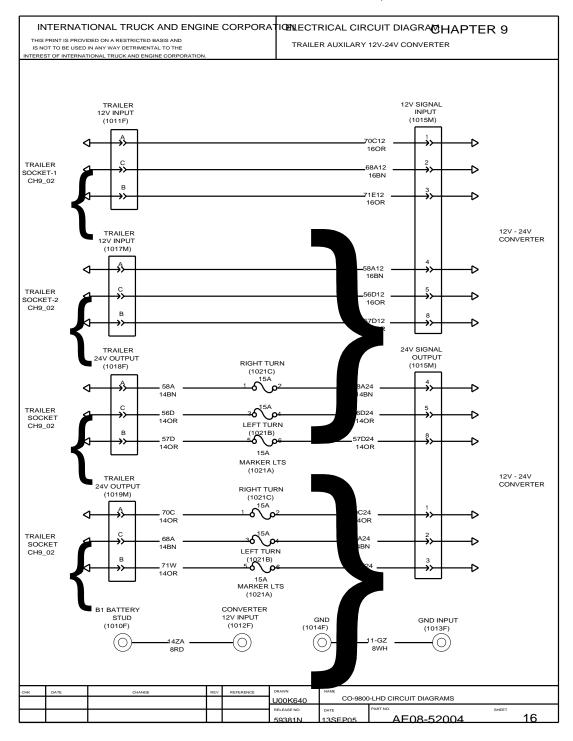


Figure 96 Trailer Auxiliary 12V-24V Converter

10. SLEEPER LIGHTING AND ACCESSORIES (LHD — CHAPTER 10)

10.1. BUNK FLUORESCENT READING LIGHTS AND CIGAR LIGHTER, P. 1

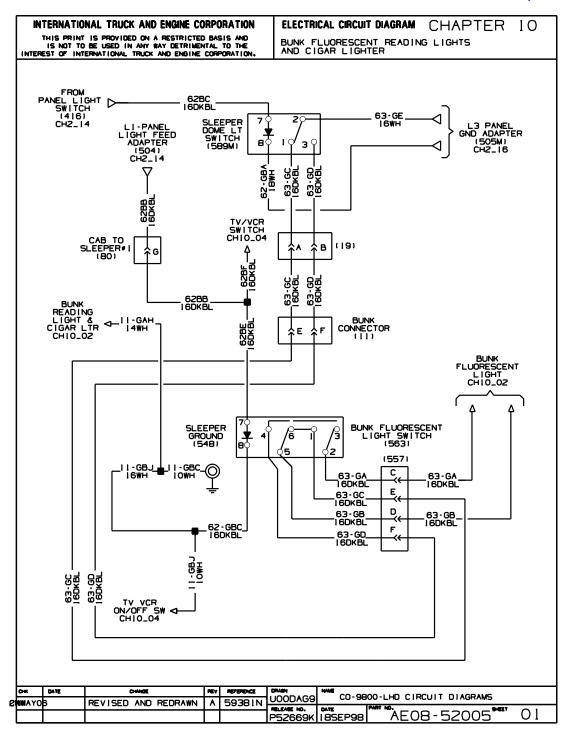


Figure 97 Bunk Fluorescent Reading Lights and Cigar Lighter

10.2. BUNK FLUORESCENT READING LIGHTS AND CIGAR LIGHTER, P. 2

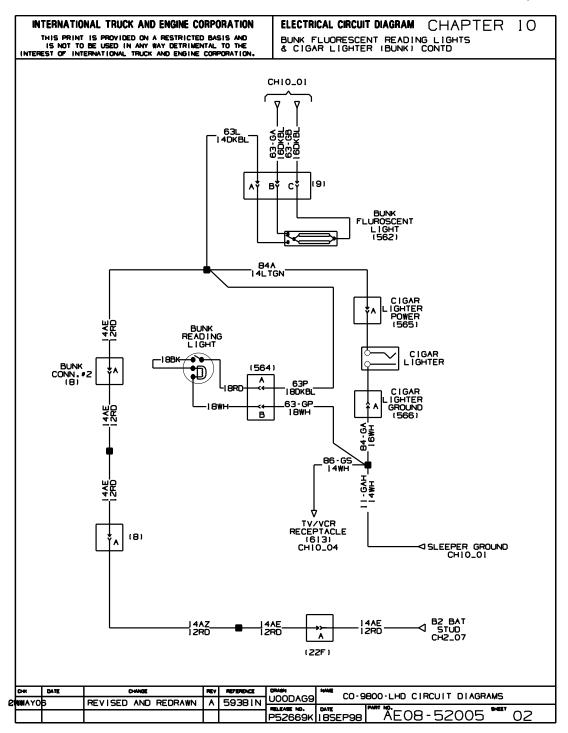


Figure 98 Bunk Fluorescent Reading Lights and Cigar Lighter

10.3. LUGGAGE COMPARTMENT LIGHT — RIGHT AND LEFT, P. 3

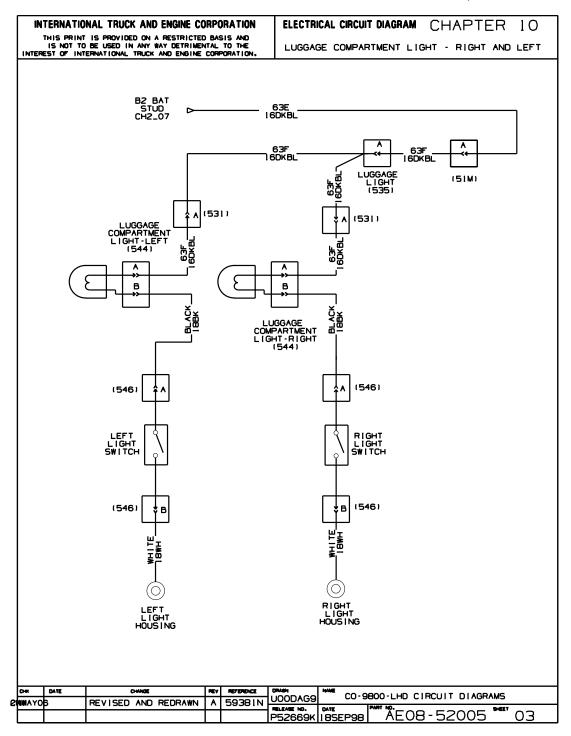


Figure 99 Luggage Compartment Light — Right and Left

10.4. TV/VCR WIRING, P. 4

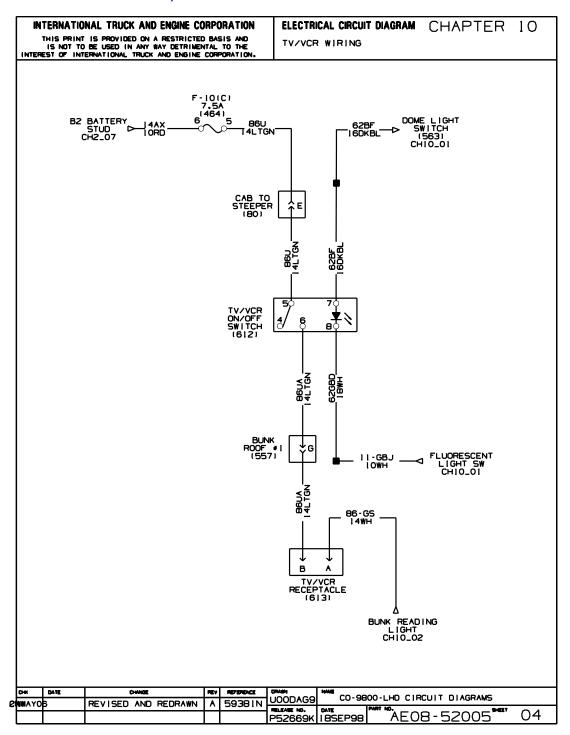


Figure 100 TV/VCR Wiring

10.5. BUNK SPEAKER VOLUME CONTROL, P. 5

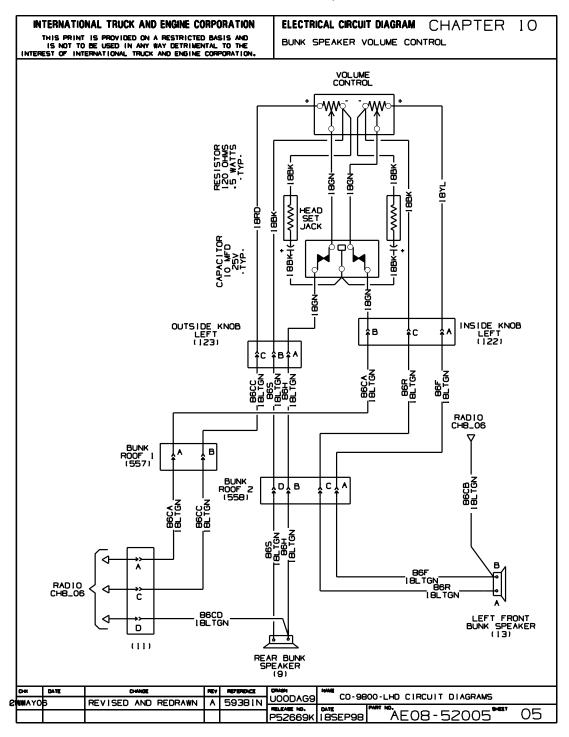


Figure 101 Bunk Speaker Volume Control

11. LIGHT SYSTEMS (LHD — CHAPTER 11)

11.1. BACK-UP LIGHTS, P. 1

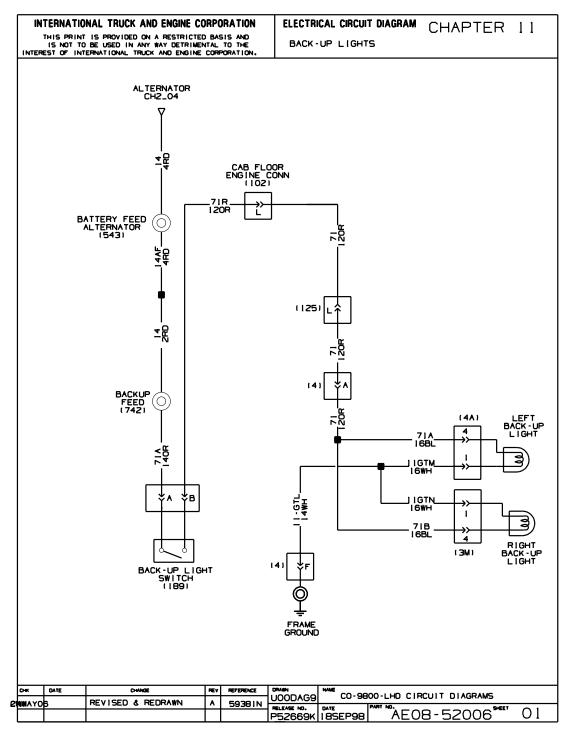


Figure 102 Back-Up Lights

11.2. CAB AND TRAILER LIGHTS SWITCH AND RELAYS WIRING, P. 2

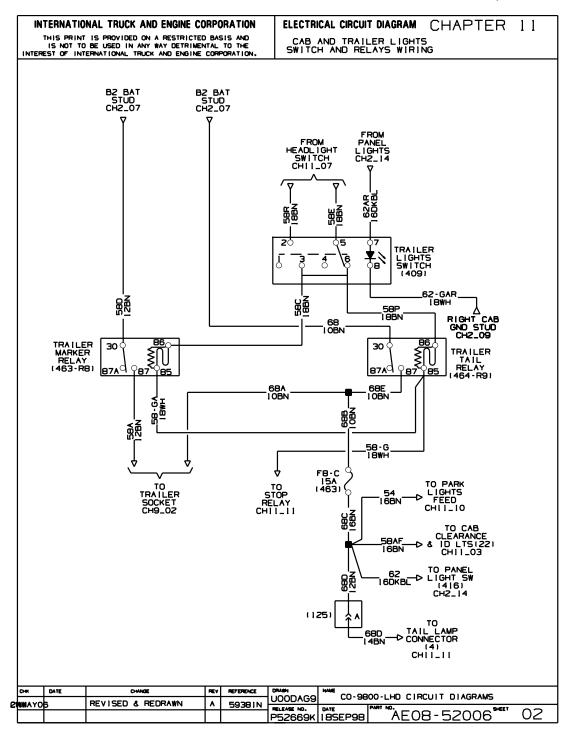


Figure 103 Cab and Trailer Lights Switch and Relays Wiring

11.3. CAB CLEARANCE AND IDENTIFICATION LIGHTS FLAT ROOF, P. 3

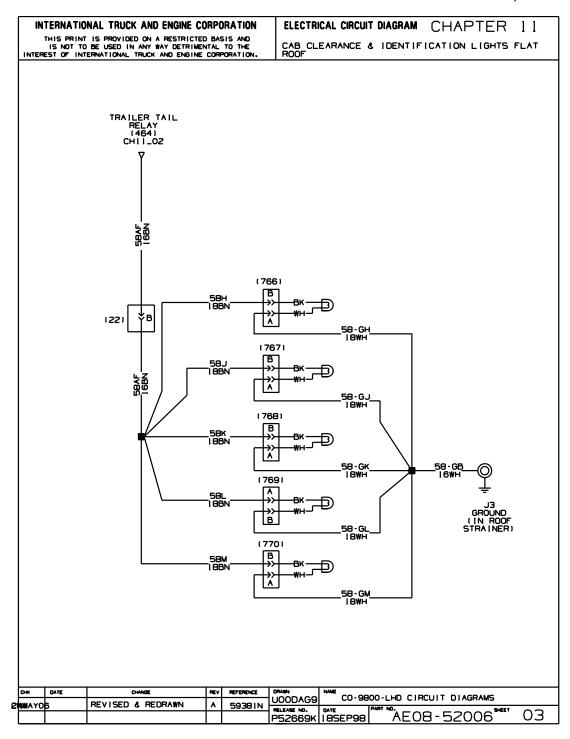


Figure 104 Cab Clearance and Identification Lights Flat Roof

11.4. CAB DOME, READING AND COURTESY LIGHTS AND SWITCHES, P. 4

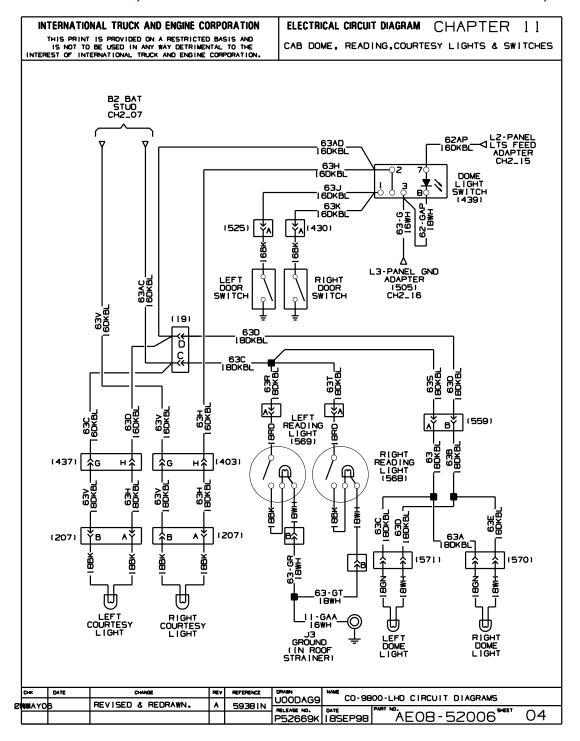


Figure 105 Cab Dome, Reading and Courtesy Lights and Switches

11.5. DRIVING LIGHT, P. 5

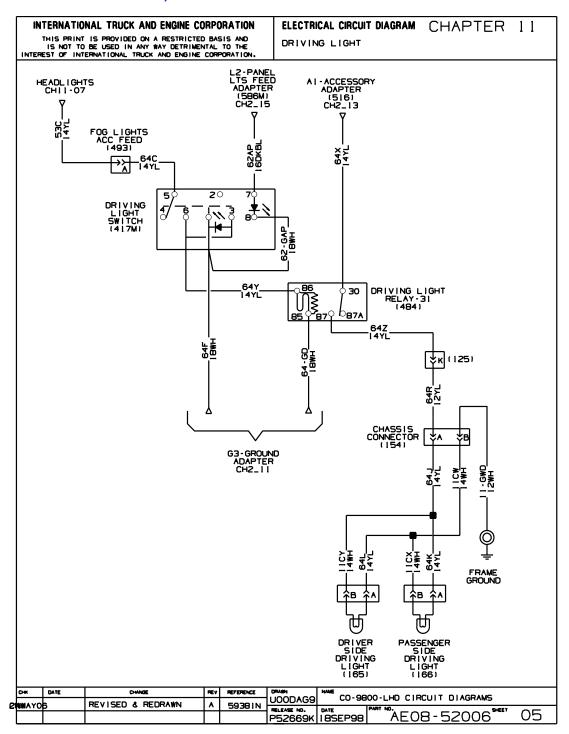


Figure 106 Driving Light

11.6. FOG LIGHT, P. 6

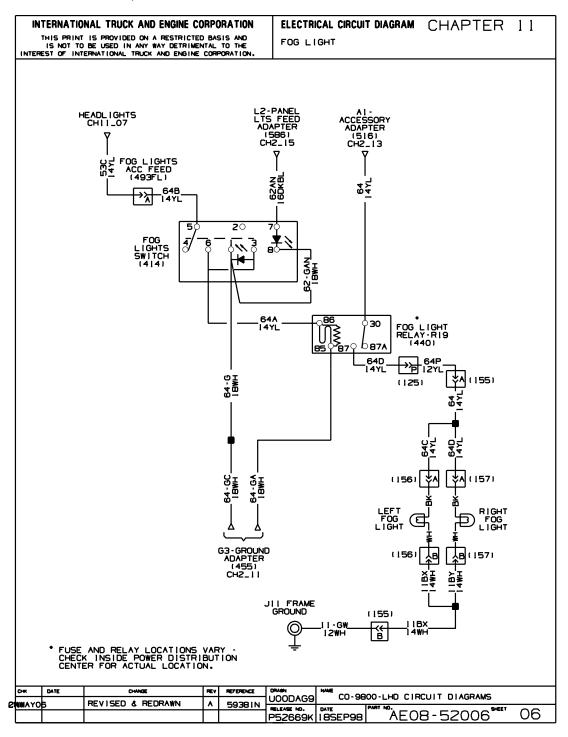


Figure 107 Fog Light

11.7. HEADLIGHTS, P. 7

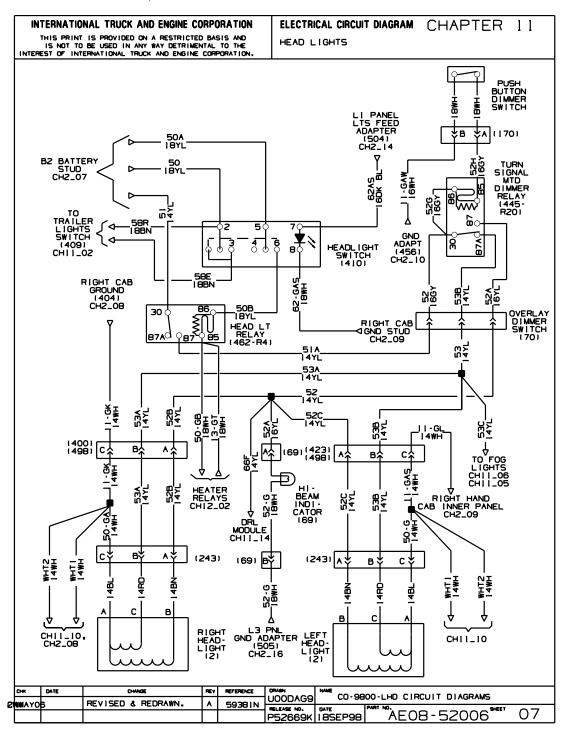


Figure 108 HeadLights

11.8. PANEL LIGHTS, P. 8

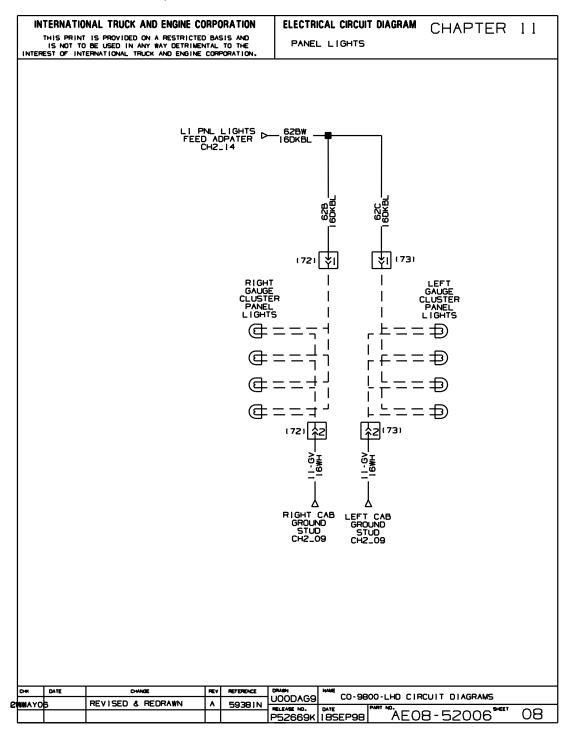


Figure 109 Panel Lights

11.9. PANEL LIGHTS, P. 9

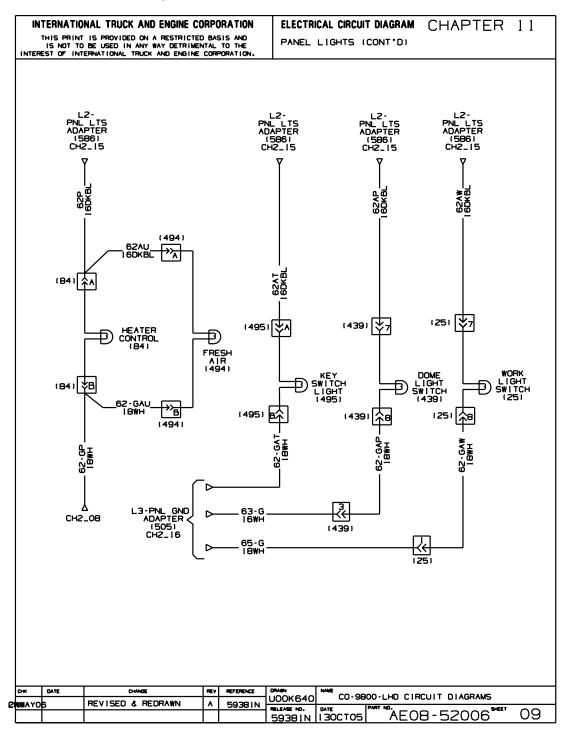


Figure 110 Panel Lights

11.10. FRONT TURN-PARK-MARKER AND SIDE TURN-MARKER LIGHTS, P. 10

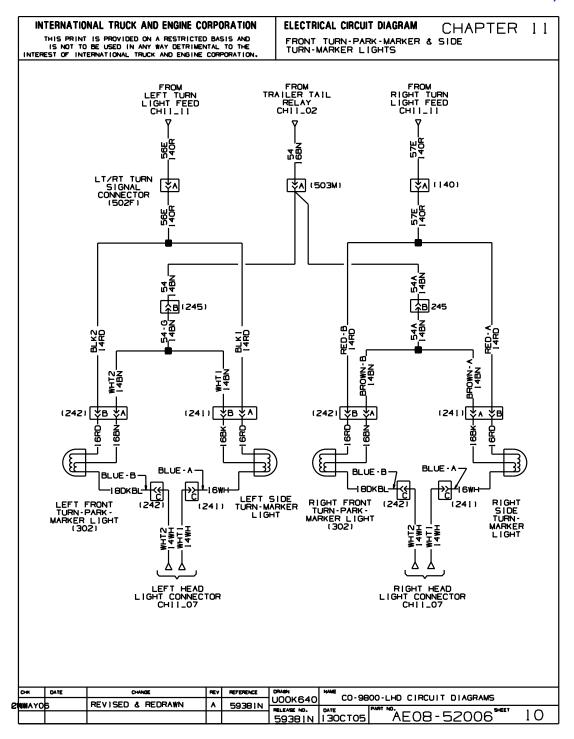


Figure 111 Front Turn-Park-Marker and Side Turn-Marker Lights

11.11. STOP, TAIL TURN AND HAZARD SIGNAL LIGHTS, P. 11

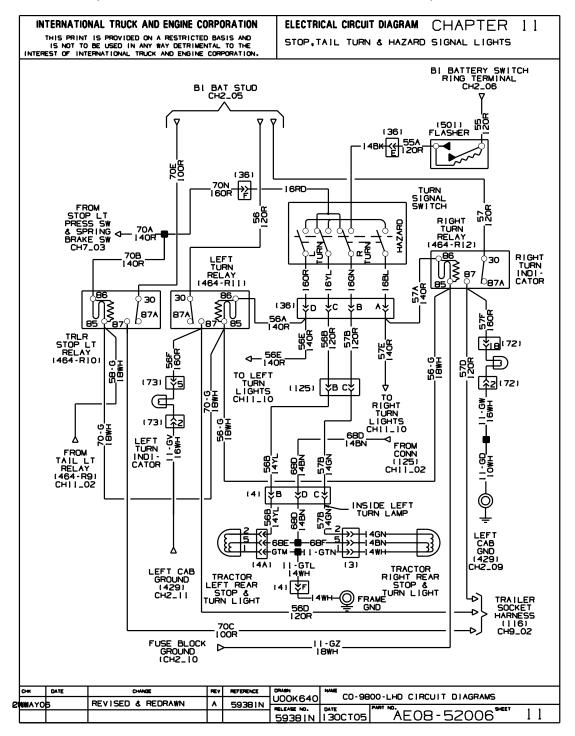


Figure 112 Stop, Tail Turn and Hazard Signal Lights

11.12. TRAILER WORK (HOOK-UP) LIGHT BACK OF CAB MOUNTED, P. 12

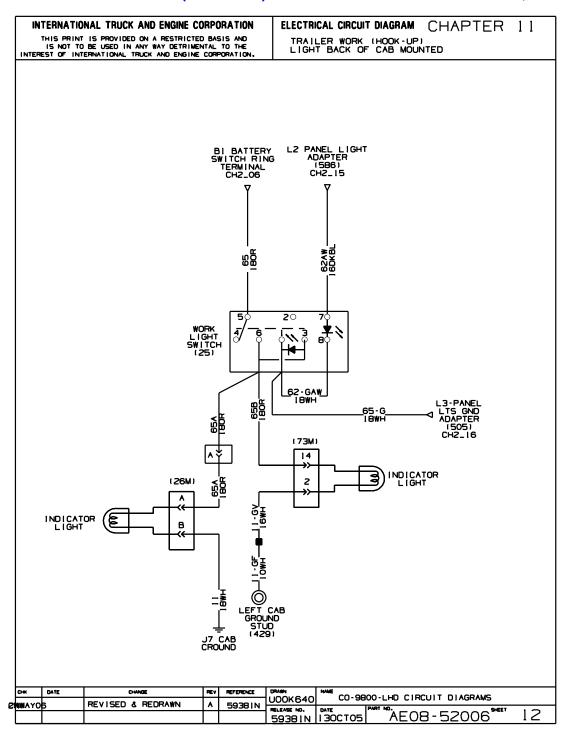


Figure 113 Trailer Work (Hook-Up) Light Back of Cab Mounted

11.13. TRAILER AUXILIARY LIGHT, P. 13

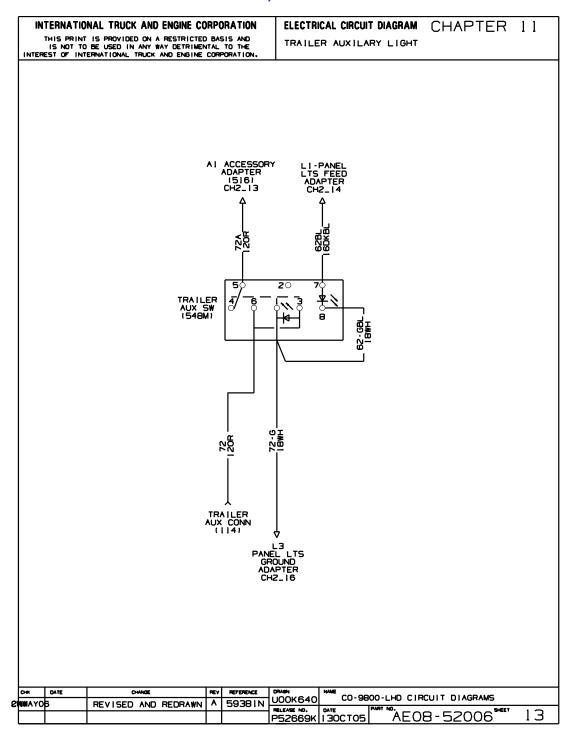


Figure 114 Trailer Auxiliary Light

11.14. DRL LAMP, P. 14

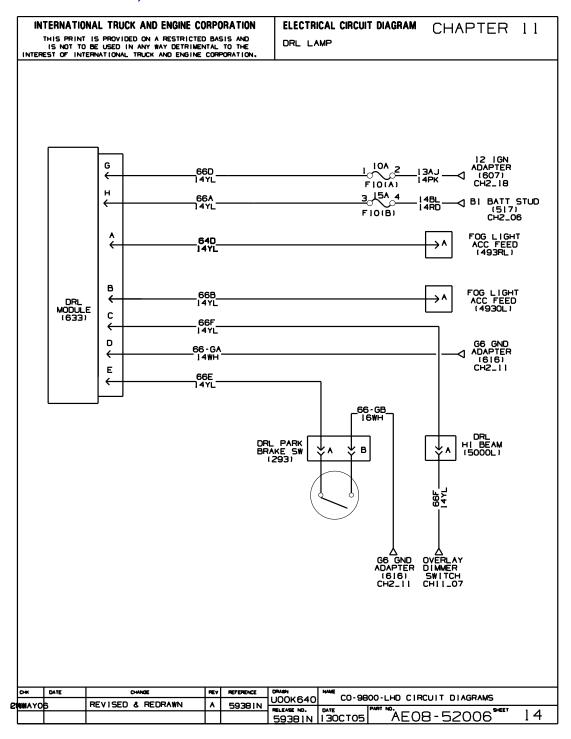


Figure 115 DRL Lamp

12. HEATER AND AIR CONDITIONER (LHD — CHAPTER 12)

12.1. AIR CONDITIONER — CAB, P. 1

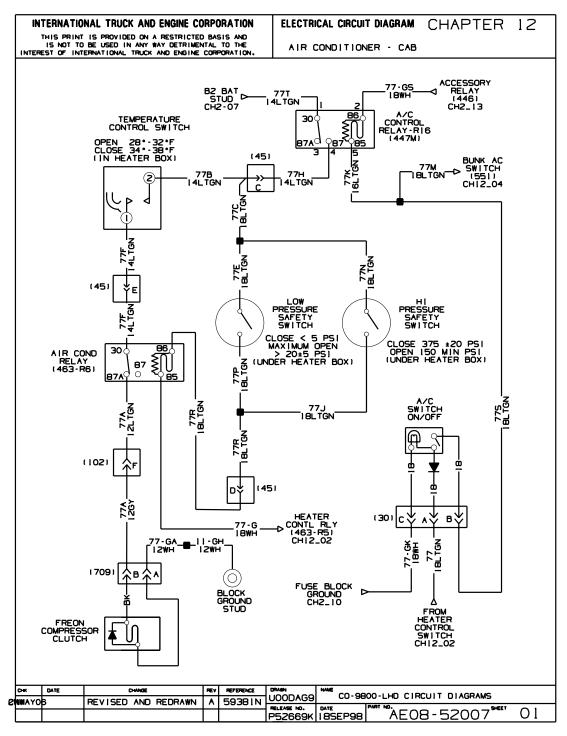


Figure 116 Air Conditioner — Cab

12.2. HEATER — CAB, P. 2

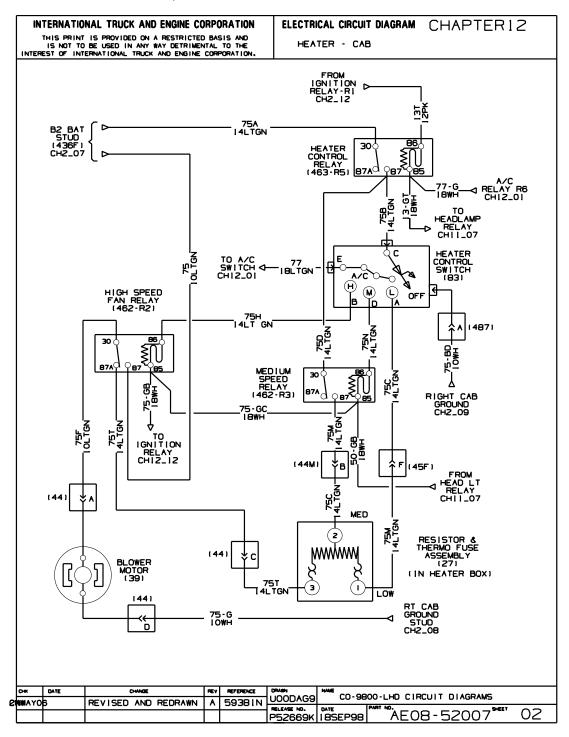


Figure 117 Heater — Cab

12.3. SLEEPER BUNK BLOWER, P. 3

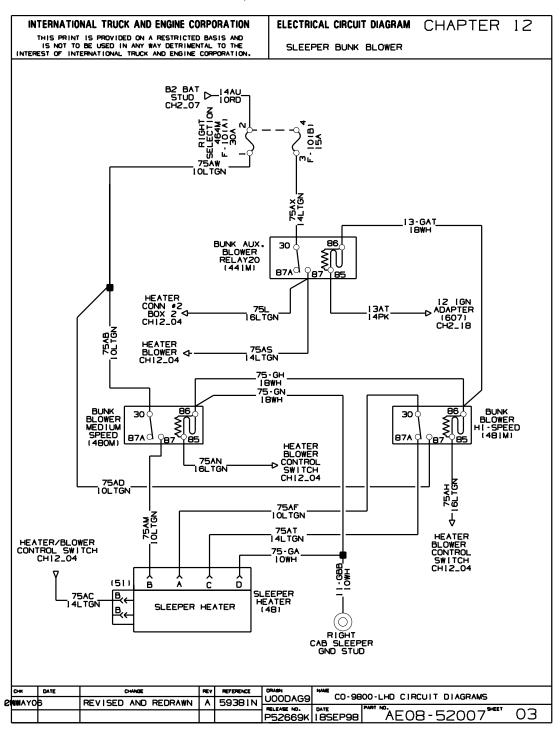


Figure 118 Sleeper Bunk Blower

12.4. HEATER — SLEEPER BUNK, P. 4

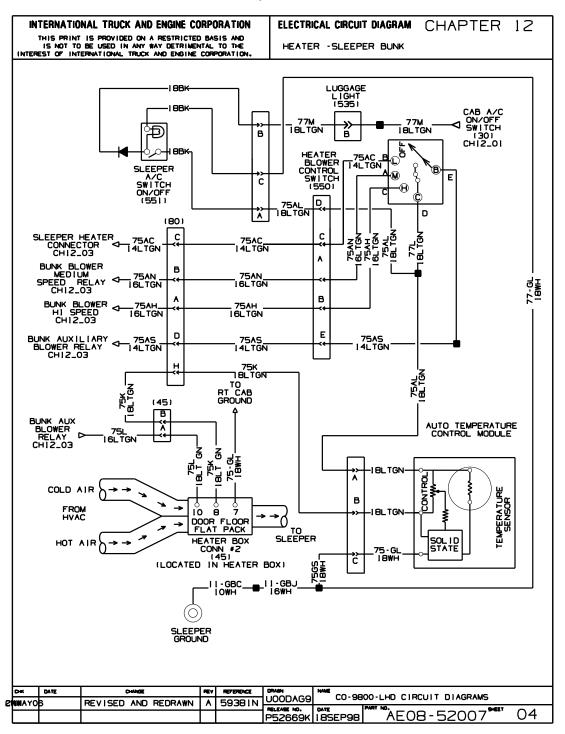


Figure 119 Heater — Sleeper Bunk