#### **SERVICE MANUAL**

#### SERVICE MANUAL SECTION

3200, 4200, 4300, 4400, 7300, 7400, 7500, 7600, 8500, 8600 SERIES Built October 1, 2002 and After — ELECTRICAL CIRCUIT DIAGRAMS

Truck Model: 3200 Start Date: 03/01/2002

Truck Model: 4200 Start Date: 10/01/2002

Truck Model: 4300 Start Date: 10/01/2002

Truck Model: 4400 Start Date: 10/01/2002

Truck Model: 7300 Start Date: 10/01/2002

Truck Model: 7400 Start Date: 10/01/2002

Truck Model: 7500 Start Date: 10/01/2002

Truck Model: 7600 Start Date: 12/01/2001

Truck Model: 8500 Start Date: 10/01/2002

Truck Model: 8600 Start Date: 10/01/2002

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10/01/2002

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vi	3200, 4200, 4300, 4400, 7300, 7400, 7500, 7600, 8500, 8600 SERIES Built October 1, 2002 and After — ELECTRICAL CIRCUIT DIAGRAMS

# 1. INSTRUCTIONS AND CHARTS (CHAPTER 1)

#### 1.1. CIRCUIT NUMBER IDENTIFICATION AND LOCATION CHART, P. 1

INTERNAT	IONAL TRUC	K AND ENGINE	CORPORATION	ELECTE	RICAL CIRCUIT D	DIAGRAM	CHAPTER 1	
TO BE USEI	YAW YAA AI C		D BASIS AND IS NOT THE INTEREST OF PORATION.		ATIONAL CIRCU FICATIOIN AND L			
			PREFIX	K DESIGNATI	ONS			
		PREFIX	LOCAT	TON			]	
		А	Cab-instrument Pane	el Module				
		В	Cab-Driver Control M	Module				
		С	Cab-Header/Clearan	ice Lights				
		D	Cab-Roof/Rear Pane	el				
		E	Cab-Left Door/Doors					
		F	Cab-Right Door/Door	rs				
		Н	Cab-Sleeper				ļ	
		J	Cab-Dash(outside)				ļ	
		К	Engine/Radiator					
		L	Transmission					
		М	Chassis/Front End (C	Cab Dash Pan	el Forward)			
		N	Chassis/Center Section	on (Cab Dash	Panel to Cab RR	Xmbr)	ļ	
		Р	Chassis/Wheel Base				ļ	
		R	Chassis/Suspension/					
		S	Chassis/AF Section/S	Stop/Tail/Turn	Lights			
			CIRCUIT NUMBE	R AND IDENT	TIFICATIONS			
	CIRCUIT NUMBER	COLOR	DESCRIPTION					
	1	LTBL	ALTERNATOR - FIE	LD				
	2	RD	ALTERNATOR - CH	ARGE				
	3	DKBL GY	1708 DATA LINK, SV 1708 DATA LINK, SV					
	4		SERIAL/DATA COM	MUNICATION	J1922			
	5	YL GN	DRIVE TRAIN J1939 DRIVE TRAIN J1939					
	6	GY	LOW VOLTAGE ELE	ECTRONIC FE	ED (< 9 VOLTS)			
7 RD ALTERNATOR - R				SISTANCE				
	8							
								<b>J</b>
CHK DAT	+	CHANGE	U0	AWN ODLCK	NAME 42/43/44/85/86	00 & 73/74/750	CIRC DIAGRAMS	
PEC 16JAN	01 PRODUC	CTION RELEASE.	A P543040 RE	LEASE NO. 2778H	DATE 09AUG00	PART NO. AE08-52365		SHEET 01
			P5.	2118H	USAUGUU	ALU0-02000		01

Figure 1 Circuit Number Identification and Location Chart

#### 1.2. CIRCUIT NUMBER IDENTIFICATION AND LOCATION CHART, P. 2

			AND ENGINE		RPORATION	ELECT	RICAL CIRCUIT	DIAGRAM	CHAPTER 1		
TO	BE USED I	N ANY WAY DE	TRIMENTAL TO DENGINE CORF	THE I	INTEREST OF		NATIONAL CIRC FICATION AND		NT.)		
				CIR	CUIT NUMBER	AND IDENTIFICA	TIONS (CONT.)				
		CIRCUIT NUMBER	COLOR		DESCRIPT	ION					
		9	GY		ZERO VOL	T REFERENCE (	ZVR)				
		10	WH		CHASSIS/E	NGINE GROUND	)				
		11	WH		CAB/SLEEF	PER GROUND					
		12	LTBL		ACCESSO	RY FEED					
		13	PK BK		IGNITION F	FEED (BODY BUI	LDER CONNEC	TOR)			
	Ī	14	RD		BATTERY F	EED					
	Ī	15	RD		KEY SWITC	CH FEED					
		16									
		17	PK		STARTER CONTROL						
		18	PK	GLOW PLUG/PRE-HEATER							
		19	GY	ENGINE SHUTDOWN							
		20	LTGN		REMOTE P	WER MODULE					
		21	TN		COLD STAI	RT CONTROLS (F	ETHER)				
		22									
		23	TN		ENGINE FA	AN/SHUTTERS					
		24	GY		ENGINE EX	(HAUST BRAKE					
		25	TN		PYROMET	ER					
		26	TN		AMMETER	R					
		27	TN		VOLTMETE	VOLTMETER					
		28	TN	INSTRUMENTS AND GAUGES							
		29	TN		ENGINE WATER TEMPERATURE						
		30	TN		ENGINE OI	L TEMPERATUR	E				
	L	31	TN		TRANSMIS	SION OIL TEMPE	RATURE			_	
		32	TN		AXLE OIL 1	TEMPERATURE					
СНК	DATE	CF	HANGE	REV	REFERENCE	DRAWN U00JXP9	NAME 42/43/44/85/9	3600 & 72/74/75	500 CIRC DIAGRAMS		
PEC	16JAN01	PRODUCTI	ON RELEASE.	Α	P54304U	RELEASE NO.	DATE	PART NO. AE08-52365		SHEET 02	
ldot		I			I	P52778H	09AUG00	AEU0-02305		V2	

Figure 2 Circuit Number Identification and Location Chart (Cont.)

## 1.3. CIRCUIT NUMBER IDENTIFICATION AND LOCATION CHART, P. 3

INTERNA	TIONAL TRUCK	AND ENGINE C	CORPORATION ELECTRICAL CIRCUIT DIAGRAM CHAPTER 1							
TO BE USE	T IS PROVIDED ON ED IN ANY WAY DE IONAL TRUCK ANI	TRIMENTAL TO T								
			CIRCUIT NUMBER AND IDENTIFICATIONS (CONT.)							
	CIRCUIT NUMBER	COLOR	DESCRIPTION							
	33	TN	ENGINE OIL LEVEL							
	34	TN	COOLANT LEVEL							
	35	TN	ENGINE OIL PRESSURE							
	36	TN	FUEL LEVEL							
	37	TN	FUEL PUMP							
	38									
	39	GY	AIR DRYER HEATER							
	40	GY	LOW AIR PRESSURE WARNING							
	41	TN	AIR TEMPERATURE							
	42	GY	FRONT AXLE ENGAGED							
	43	GY	POWER DIVIDER LOCK (PDL) WARNING							
	44	GY	PARK BRAKE WARNING							
	45	LTGN	ANTI - THEFT WARNING							
	46	GY	POWER TAKE - OFF WARNING							
	47	GY	SPEEDOMETER							
	48	GY	TACHOMETER							
	49	GY	DIFFERENTIAL LOCK WARNING							
	50	YL	LIGHT SWITCH FEED							
	51	YL	DIMMER SWITCH FEED							
	52	YL	HEADLIGHT HI - BEAM							
	53	YL	HEADLIGHT LO - BEAM							
	54	BN	PARKING/MARKER LIGHTS							
	55	OR	TURN SIGNAL - FEED							
	56	OR	TURN SIGNAL LIGHTS - LEFT							
	57	YL OR	TURN SIGNAL LIGHTS - LEFT (BODY BUILDER CONNECTION)  TURN SIGNAL LIGHTS - RIGHT							
		LT GN	TURN SIGNAL LIGHTS - RIGHT (BODY BUILDER CONNECTION)							
CHK DAT			REV REFERENCE DRAWN NAME U00DLCK 42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS							
PEC 16JAN	N01 PRODUCT	ION RELEASE.		SHEET 03						

Figure 3 Circuit Number Identification and Location Chart (Cont.)

#### 1.4. CIRCUIT NUMBER IDENTIFICATION AND LOCATION CHART, P. 4

	BE USED I	S PROVIDED ON IN ANY WAY DE IAL TRUCK AND	A RESTRICTED	BASI THE I	NTEREST OF	INTERN	RICAL CIRCUIT I	IT NUMBER	CHAPTER 1	
				C	CIRCUIT NUMBE	R AND IDENTIF	ICATIONS (CONT	·.)		
		CIRCUIT NUMBER	COLOR		DESCRIPTI	ON				
	Ī	58	BN		CLEARANC	E/IDENTIFICAT	ION LIGHTS			
		59	GY		SOLENOID					
	Γ	60	OR		HAZARD LI	GHTS				
	Γ	61	GY		AIR SUSPE	NSION				
		62	DKBL		PANEL LIGI	HTS				
		63	DKBL		COURTES	//DOME LIGHTS	i			T
		64	YL		FOG/DRIVI	NG LIGHTS				
		65	OR		CAB REAR	FLOOD LIGHT				
		66	YL		DAYTIME R	RUNNING LIGHT	S			
		67								
		68	BN		TAIL LIGHT	tts				
		69	BN		LICENSE P	CENSE PLATE LIGHT				
		70	OR RD		STOP LIGH		DER CONNECTIO	N)		
		71	OR LTBL		BACK - UP		BUILDER CONNE	CTION)		
	Ī	72	OR		TRAILER A	UXILIARY FEED	- BATTERY			7
	Ī	73	LTGN		PWM					7
	Ī	74	LTGN		HEATER RE	ECIRC MOTOR				7
	ľ	75	LTGN	T	HEATER BI	LOWER MOTOR				7
	ľ	76	LTGN	T	AUXILIARY	FAN				7
	ľ	77	LTGN	T	AIR CONDI	TIONER				7
	ľ	78	LTGN	T	MIRRORS -	ORS - HEATED; MOTORIZED				
	ľ	79 GY SEAT E			SEAT BELT	IT BELTS				
	80 BK SLEEPER			SLEEPER E	R BOX RELAY - FEED					
	Ī	81	LTGN	十	POWER DO	OOR LOCKS				7
	_			•						
CHK	DATE	СН	ANGE	REV	REFERENCE	DRAWN	NAME		00 0100 014 004::0	
PEC	16JAN01	PRODUCTION	ON RELEASE.	Α	P54304U	U00DLCK RELEASE NO.	42/43/44/85/86 DATE	900 & 73/74/75 PART NO.	00 CIRC DIAGRAMS	SHEET

Figure 4 Circuit Number Identification and Location Chart (Cont.)

#### 1.5. CIRCUIT NUMBER IDENTIFICATION AND LOCATION CHART, P. 5

	ANY WAY DE	A RESTRICTE	CORPORATION  D BASIS AND IS NOT  THE INTEREST OF PORATION.	ELECTRICAL CIRCUIT DIAGRAM CHAPTER 1 INTERNATIONAL CIRCUIT NUMBER IDENTIFICATION AND LOCTION (CONT.)				
			CIRCUIT NUMBER AND	IDENTIFICATIONS (CONT.)				
	CIRCUIT NUMBER	COLOR	DESCRIPTION					
Ī	82	GY	WINDSHIELD WIPE	ER				
	83	LTGN	POWER WINDOWS	s				
	84	LTGN	CIGAR LIGHTER					
	85	GY	HORN					
	86	LTGN	RADIO - ENTERTA	AINMENT/CLOCK				
	87	GY	WINDSHIELD WAS	SHER				
	88	LTGN	CLOCK/HOURMET	TER				
	89	VT	AIR BAG					
	90	GY	HYDRAULIC BRAK	KE PUMP				
	91	VT	INTERCOMMUNIC	CATIONS				
	92	TN	TRANSMISSION (	CONTROLS - ELECTRONIC				
	93	TN	AXLE SHIFT CON	TROL				
	94	GY	ANTILOCK BRAKE	SYSTEM				
	95	TN	EXHAUST EMISSI	ON				
	96	YL	SNOW PLOW LIG	HTS/CRUISE CONTROL				
	97	VT	ENGINE CONTRO	DLS - ELECTRONIC				
	98	ВК	DATALINK AND D	IAGNOSTICS				
	99	VT	ACCELERATOR P	POSITION SENSOR (APS)				
	100		AIR HORN (ELECT	TRIC SOLENOID ACTUATED)				
	101		BRAKE APPLICAT	TION AIR				
	102		FLASH TO PASS	TO PASS				

Figure 5 Circuit Number Identification and Location Chart (Cont.)

# 1.6. NAVPAK/ECM I6 ENGINE CONTROLLER CONNECTOR PIN NUMBER IDENTIFICATION, P. 6

BE U	JSED IN ANY \	DED ON A RESTRICTED BASIS AND IS NOT WAY DETRIMENTAL TO THE INTEREST OF CK AND ENGINE CORPORATION.	INTERNATIONAL NAVPAK/ECM I6 ENGINE CONTROLLER CONNECTOR PIN NUMBER IDENTIFICATION			
ECM PIN#	TERM	DESCRIPTION	T	ECM PIN #	TERM	DESCRIPTION
12	AAT	AMBIENT AIR TEMP. SENSOR	ヿ	27	IVS	IDLE VALIDATION SWITCH
33	ACD	A/C DEMAND	T	54	OWL	OIL/WATER WARNING LIGHT
8	APS	ACCELERATOR POS. SENSOR	T	25	PWR RLY	CEC MAIN POWER RELAY SIGNAL
16	ATA(+)	J1708 DATALINK (+)	T	31	RAS	RESUME/ACCELERATE
7	ATA(-)	J1708 DATALINK (-)	T	37	RPRF	PRESET SPEED
29	BAP	BAROMETRIC AIR PRESS. SENSOR	T	30	RPS	REMOTE ACCELERATOR POS. SENS. SIG.
3	BN01	BRAKE STATUS #1	T	6	RPS_RTN	REMOTE ACCELERATOR POS. SENS RTN.
4	BN02	BRAKE STATUS #2	7	36	RVAR	VARIBLE SPEED SWITCH
8	CAN SHLD	DRIVETRAIN J1939 DATALINK SHLD	T	32	scs	SET/COAST
9	CAN(+)	DRIVETRAIN J1939 DATALINK (+)	7	45	SIL	SERVICE INTERVAL LIGHT
20	CAN(-)	DRIVETRAIN J1939 DATALINK (-)	T	34	STI	SELF TEST INPUT
5	CBE_SEL1	RETARDER/EXHAUST BRAKE REQUEST	T	48	SUL	SHIFT UP LIGHT
0	CLS	COOLANT LEVEL SENSOR	7	59	TACA	TACHOMETER A
35	COD	CRUISE ON/OFF	7	60	TACB	TACHOMETER B
21	DC (+)	POWER	7	38	TCSS	TORQUE CURVE SELECTION INPUT
22	DC (+)	POWER	1	28	TSA	TWO SPEED AXLE
1	DC (-)	GROUND	T	3	VBREF(5V)	ACCELERATOR SENSOR SUPPLY
2	DC (-)	GROUND	7	11	VBREF GND	ACCELERATOR SENSOR GROUND
26	DDS	DRIVELINE DISENGAUGED INPUT	7	5	VCREF(5V)	REMOTE ACCELERATOR SENS. SUPPLY
2	DPS	GROUND	7	7	VCREF GND	REMOTE ACCELERATOR SENSOR GND
6	ECI	ENGINE CRANK INHIBIT	7	24	VIGN	IGNITION FEED
i6	EDL	TRANSMISSION KICKDOWN	T	47	VRE	RETARDER/EXHAUST BRAKE ENABLE
53	GPL	GLOW PLUG LIGHT	7	39	VSS(+)	VEHICLE SPEED SENSOR (+)
4	HGE	HYD. PRESS GOVERNOR ENABLE	7	40	VSS(-)	VEHICLE SPEED SENSOR (-)
19	HMI	HYDRAULIC PRESS GOVERNOR IND. LT	7	58	VSSCALA	SPEEDOMETER SIGNAL A
3	HPS	HYDRAULIC PRESSURE SENSOR	7	57	VSSCALB	SPEEDOMETER SIGNAL B
11	HSO (+)	POWER	7	55	WARN	ENGINE WARNING LIGHT
!3	HSO (-)	GROUND	7			
+	DATE	110	AWI 0JXI		NAME 42/43/44/85/86	500 & 73/74/7500 CIRC DIAGRAMS
16.	JAN01 PRO			SE NO.	DATE	PART NO. SHEET

Figure 6 NAVPAK/ECM I6 Engine Controller Connector Pin Number Identification

#### 1.7. CIRCUIT DIAGRAM INSTRUCTIONS, P. 7

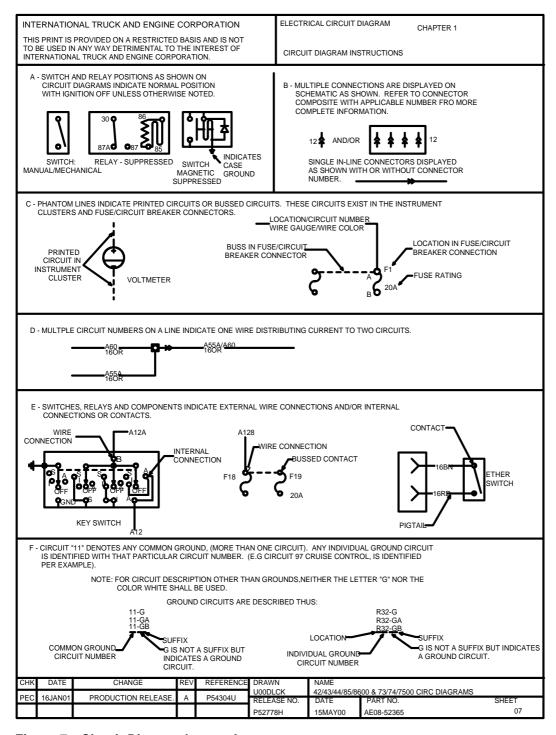


Figure 7 Circuit Diagram Instructions

#### 1.8. CIRCUIT DIAGRAM INSTRUCTIONS, P. 8

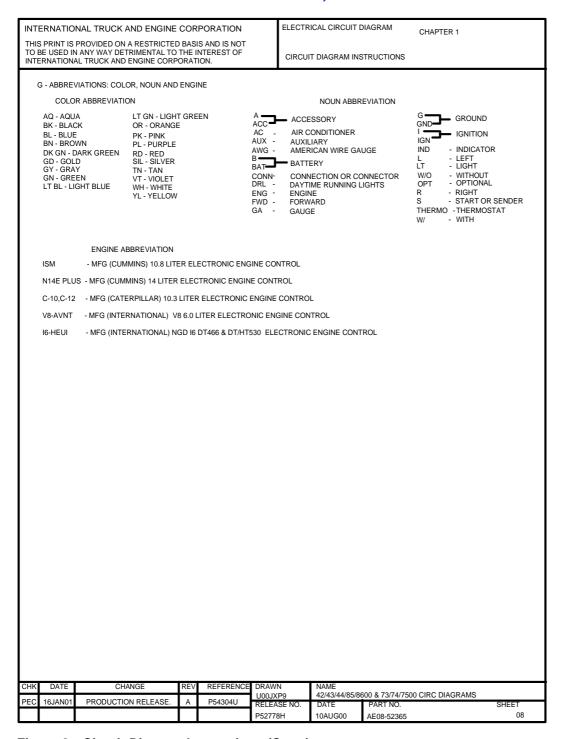


Figure 8 Circuit Diagram Instructions (Cont.)

#### 1.9. SCHEMATIC SYMBOL CHART, P. 9

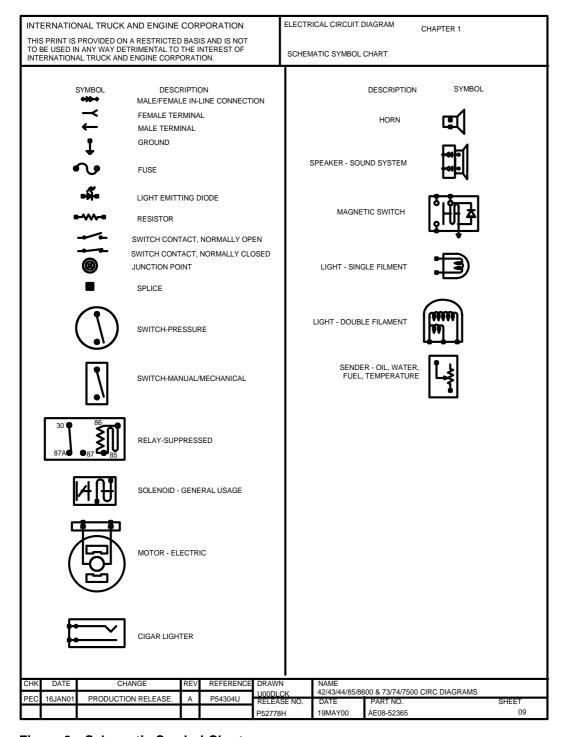


Figure 9 Schematic Symbol Chart

#### 1.10. RELAY FUNCTIONS, P. 10

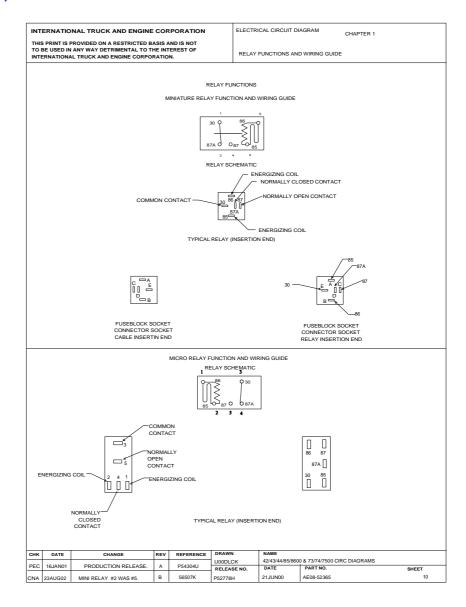


Figure 10 Relay Functions

### 1.11. LAMP BULB CHART, P. 11

NTER	OITANS	NAL TRUCK AND ENGINE	COR	PORATION		ELECTE	RICAL CIRCUIT I	DIAGRAM	OLIABAT	-D 4		
					т				CHAPTE	:K 1		
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.						LAMP I						
		APPLICATION				VER OR V				LB TRADE NUMBER		
		UP LIGHTS										
	CLEAR	ANCE & INDENTIFICATION										
						DLEPOWER				GE168		
	DOME	LIGHT9			12 CAND	LEPOWE	R		— GI	E561		
	FOG LI	GHTS -			55 CAND	LEPOWE	R <del></del>		VI	H550		
	HEAD I	LIGHTS:										
		W BEAMS		<del></del> 6	55 WATTS	· —			GI	<b>E9007</b>		
	HIG	SH BEAM9		6	55 WATTS	· —			GI	E9007		
	INSTRU	JMENT CLUSTER:										
	GA	UGE BACK LIGHT							08	32S270538-3		
	GA	UGE WARNING LED (REB)							08	32S272109-3		
	RA	NGE INHIBIT LED (YELLOW <del>)</del>							08	32S272109-4		
	CO	OLD AMBIENT PROTECTION L	ED (Y	ELLOW)					08	32S272109-4		
		EL FILTER LED (YELLOW <del>)</del>										
		ARN ENGINE LED (YELLOW <del>)</del>										
	ST	OP ENGINE LED (RED)							08	32S272109-3		
	BR	AKE PRESSURE LED (RED <del>)</del>							08	32S272109-3		
		AKE FLUID LED (RED <del>)</del>										
		AIT TO START LED (YELLOW)										
		IECK TRANSMISSION LED (Y	FLLOV	v					08	225272109-4		
		AILER ABS LED (YELLOW)		•,					08	32S272109-4		
		ASHER FLUID LED (YELLOW)										
		FT TURN SIGNAL LED (GREE										
	TR	ACTION CONTROL LED (GRE	FN)							225272100-2		
		TER IN FUEL LED(YELLOW <del>)</del>										
		RK FLUID LED LIGHT (RED)										
		IECK ELECTRICAL SYSTEMS										
		RK BRAKE LED (RED <del>)</del>										
		UISE CTRL ACTIVE LED (GR										
		TILOCK BRAKING SYSTEM L										
	PIC	GHT TURN LED (GREEN <del>)</del>	בט (ונ	LLOW)					0	225272100-4		
		OLANT LEVEL LED (RED)										
		AT BELT LED (RED <del>)</del>										
		GH BEAM ICON LED (BLU <del>E) -</del>										
CHECK AIR CONDITIONER LED (YELLO <del>W)</del> RETARD OVER HEAT LED (RED)									082S272109-3			
PTO/THROTTLE LED (RED)												
MAP LIGHT 3 CANDLEPOWER  SIDE MARKER  STOP & TURN/TAIL & LICENSE PLATE  TURN SIGNAL/MARKER (FENDER)  3 CANDLEPOWER												
									18			
										1157		
									3157			
		SIGNAL & MARKER LIGHT							23			
HK	DATE	(TRAILER HOOK-UP) LIGHT  CHANGE	REV	REFERENCE	DRAW	N	NAME		44	F1 1		
_	6JAN01	PRODUCTION RELEASE.	-	P54304U	U00DL	CK	42/43/44/85/86		500 CIRC DI			
	DIMINU	FRODUCTION RELEASE.	Α	17040040	RELEA	SE NO.	DATE	PART NO.		SHEET 11		

Figure 11 Lamp Bulb Chart

# 1.12. NAVPAK/ECM V8-AVNT CONTROLLER CONNECTORS X3 AND X4 PIN NUMBER IDENTIFICATION, P.12

	CK AND ENGINE CORPORATION.			ER CONNECT ENTIFICATION	ORS X3 & X4 PIN N
INECTOR (X3)		C		CTOR (X4)	
CM TERM N#	DESCRIPTION		ECM PIN#	TERM	DESCRIPTION
1 FPM	FUEL PUMP MONITIOR		1	KL.87	BATTERY POWER
2 FLI	FUEL LEVEL INDICATOR		2	KL.87	BATTERY POWER
3 KL.15	IGNITION FEED		3		NOT POPULATED
4 ECL	ENGINE COOLANT LEVEL		4	VBREF	SENSOR REFERENCE VOLTAGE
5 MPR	MAIN POWER RELAY		5		NOT POPULATED
6 KL.31	GROUND		6	LSI_SPARE2	LOW SPEED INOUT 2
7 KL.31	GROUND		7		NOT POPULATED
8 DDS	DRIVELINE DISENAGE SWITCH		8		NOT POPULATED
9 FPC	FUEL PUMP CONTROL		9	VSS-	VEHICLE SPEED SENSOR-
10 TCSS	TORQUE CURVE SELECT SWITCH		10	VSS+	VEHICLE SPEED SENSOR+
11 TACH	TACHOMETER CONTROL		11		NOT POPULATED
12 CAN1+	DRIVETRAIN J1939 DATALINK +		12	IVS	IDLE VALIDATION SWITCH
13 CAN1-	DRIVETRAIN J1939 DATALINK -		13		NOT POPULATED
14 RAS	RESUME/ACCELERATE		14	EFAN	ELECTRIC FAN CONTROL
15 CAN1-SHLE	<del></del>	1	15	LSO_SPARE	LOW SIDE OUTPUT 4
6	NOT POPULATED		16		NOT POPULATED
17 VSS_CAL	VEHICLE SPEED SENSOR CALIBRATION		17		NOT POPULATED
18 VRE	VEHICLE RETARDER ENABLE		18	APS	ACCELERATION POSITION SENSOR
19 RPRE	REMOTE PRESET PTO ENABLE		19		NOT POPULATED
20 RVAR	REMOTE VARIABLE PTO ENABLE		20	ATA+	J1708 DATALINK +
21 SCS	SET/COAST		21	ATA-	J1708 DATALINK -
22 ESHTR	ELECTRONIC SHUTTER RELAY		22		NOT POPULATED
23 ECI	ENGINE CRANK INHIBIT		23	GSC	GENSET SPEED CONTROL
24 BAP	BAROMETRIC AIR PRESSURE		24	KL.31B	SENSOR REFERENCE GROUND
23 ECI	ENGINE CRANK INHIBIT		23		GENSET SPEED CONTROL

Figure 12 NAVPAK/ECM V8-AVNT Controller Connectors X3 and X4 Pin Number Identification

#### 2. 12 VOLT POWER DISTRIBUTION CIRCUIT DIAGRAMS (CHAPTER 2)

#### 2.1. ACCESSORY, P. 1

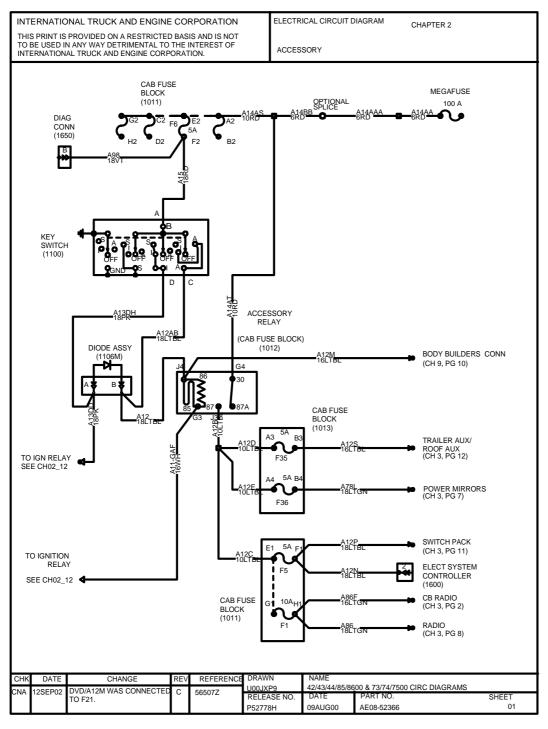


Figure 13 Accessory

#### 2.2. BATTERY FEEDS, CAB, P. 2

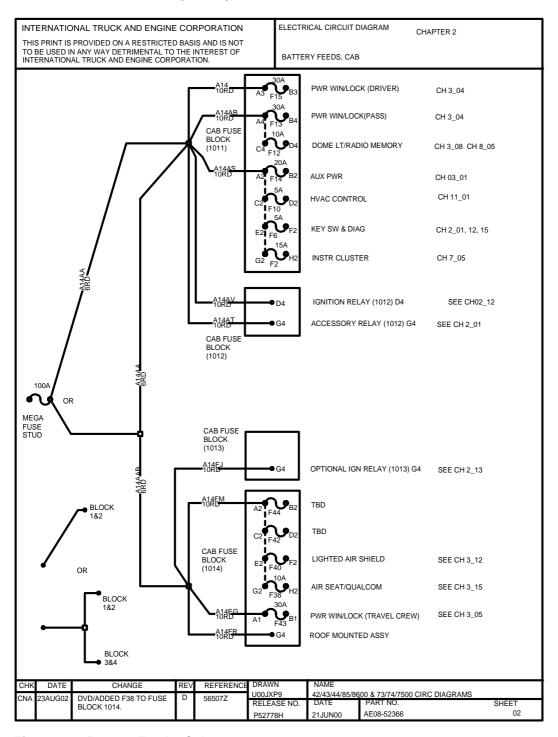


Figure 14 Battery Feeds, Cab

#### 2.3. BATTERY, P. 3

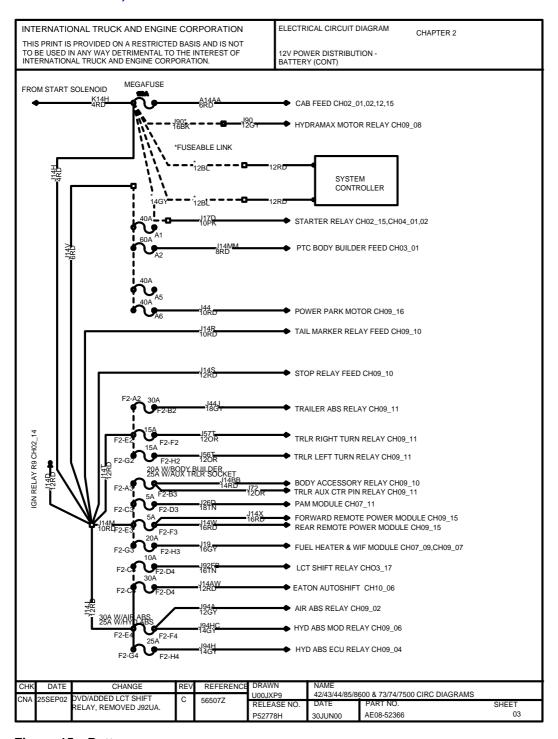


Figure 15 Battery

#### 2.4. 1708 DATA LINK, P. 4

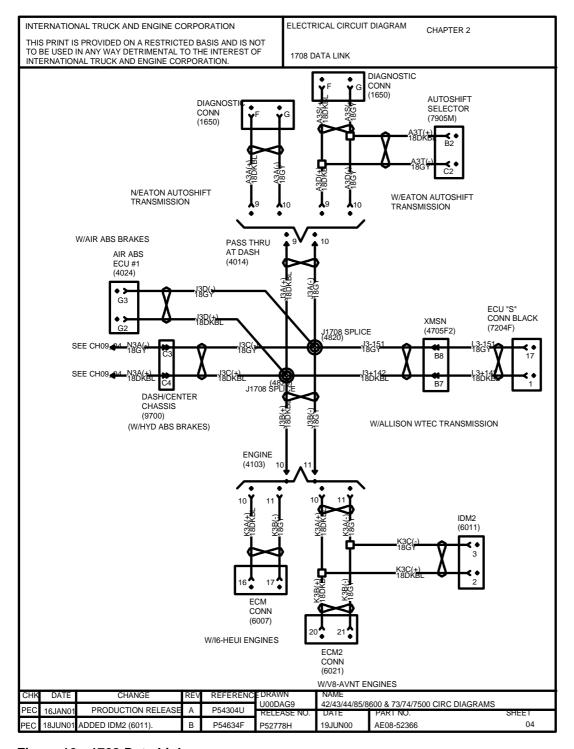


Figure 16 1708 Data Link

#### 2.5. SWITCH DATA LINK, P. 5

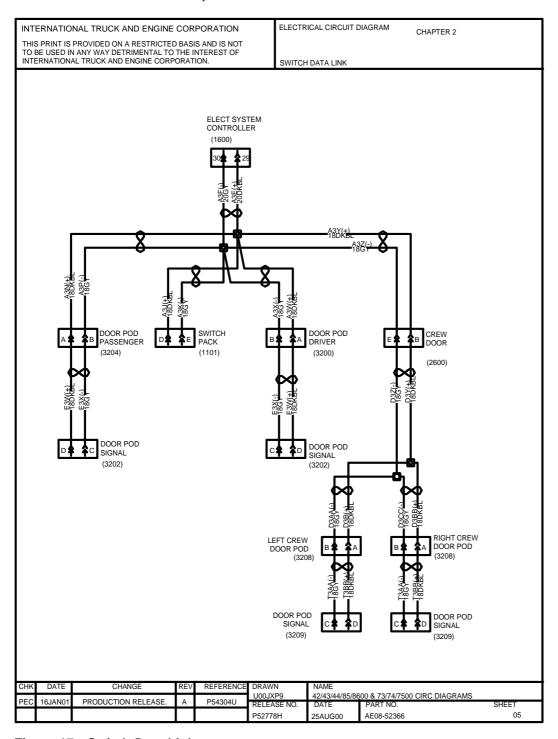


Figure 17 Switch Data Link

#### 2.6. DRIVETRAIN 1939 DATA LINK (CAB), P. 6

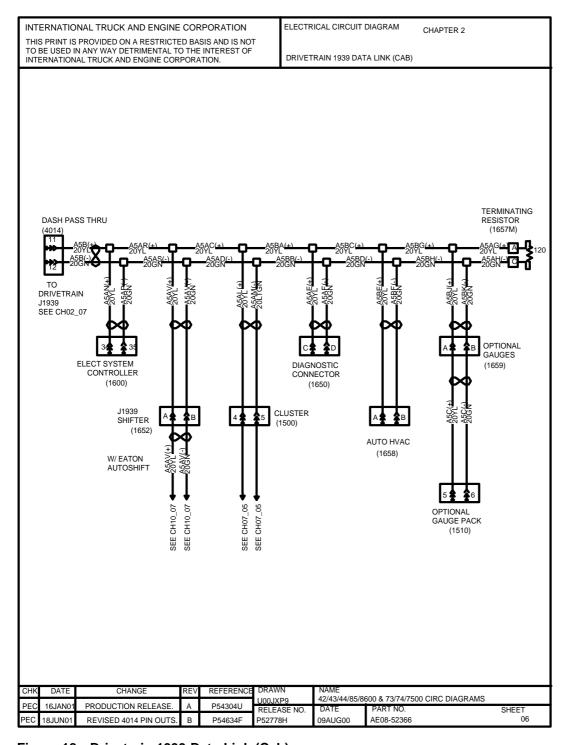


Figure 18 Drivetrain 1939 Data Link (Cab)

#### 2.7. DRIVETRAIN 1939 DATA LINK (CHASSIS), P. 7

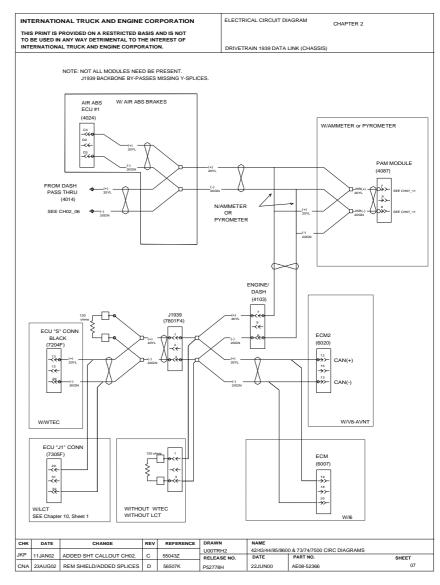


Figure 19 Drivetrain 1939 Data Link (Chassis)

#### 2.8. GROUNDS CHASSIS, P. 8

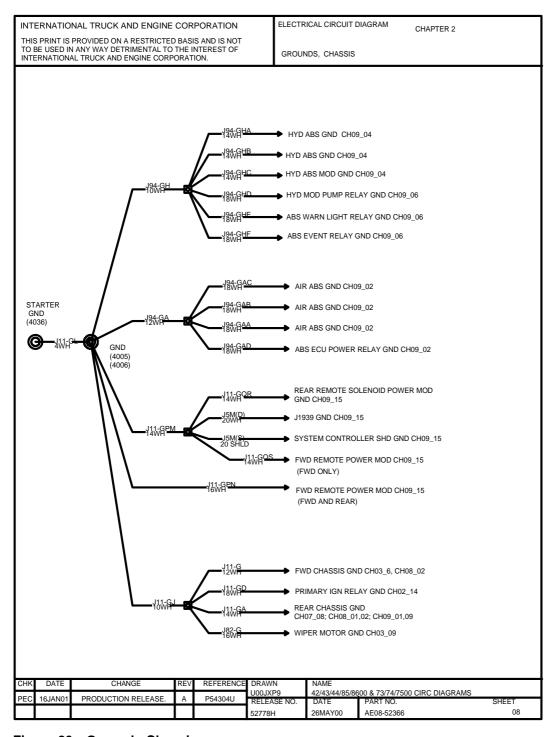


Figure 20 Grounds Chassis

#### 2.9. GROUNDS CHASSIS, P. 9

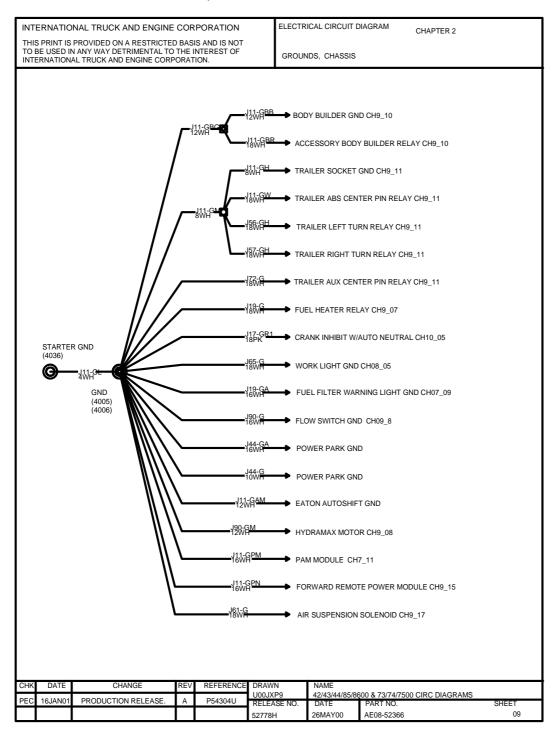


Figure 21 Grounds Chassis (Cont.)

#### 2.10. GROUNDS IP, P. 10

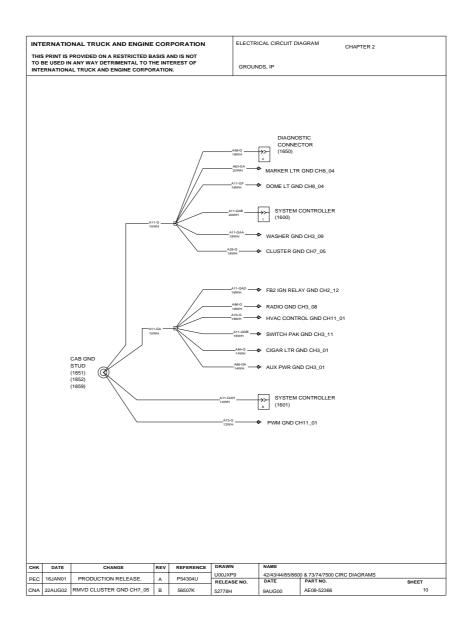


Figure 22 Grounds IP

#### 2.11. GROUNDS IP, P. 11

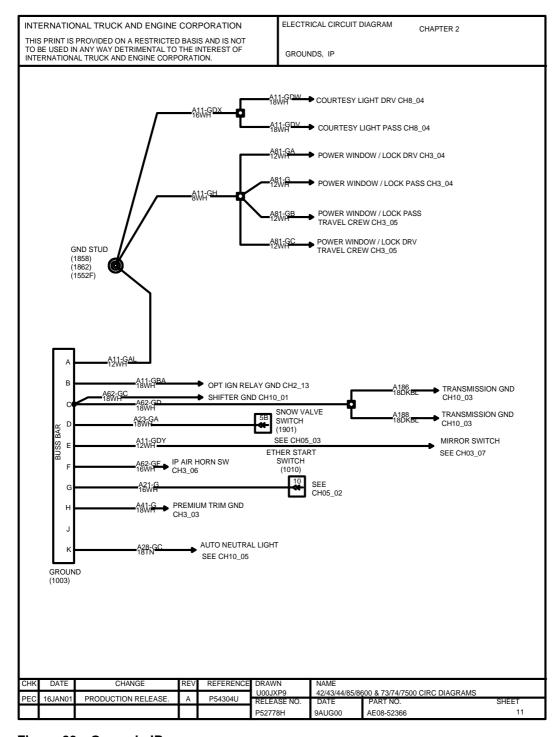


Figure 23 Grounds IP

#### 2.12. IGNITION CAB, P. 12

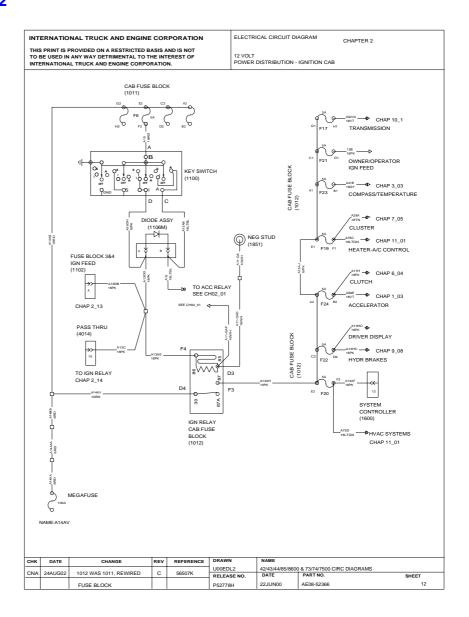


Figure 24 Ignition Cab

#### 2.13. IGNITION CAB, P. 13

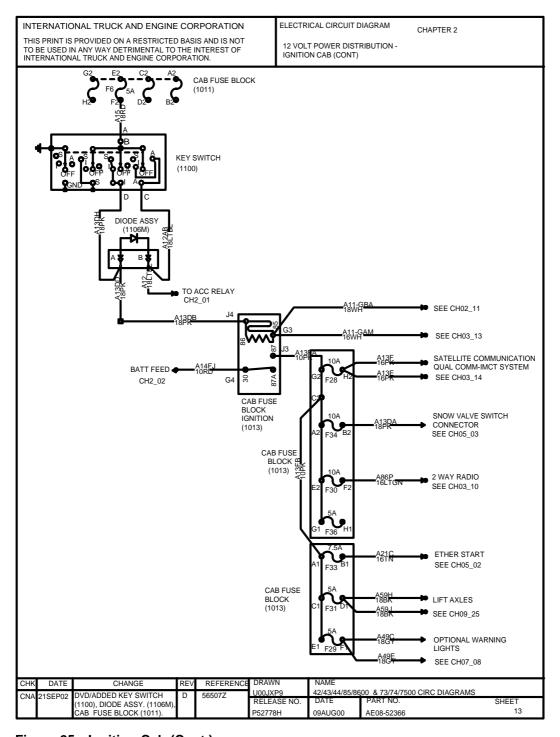


Figure 25 Ignition Cab (Cont.)

#### 2.14. IGNITION FEEDS, CHASSIS, P. 14

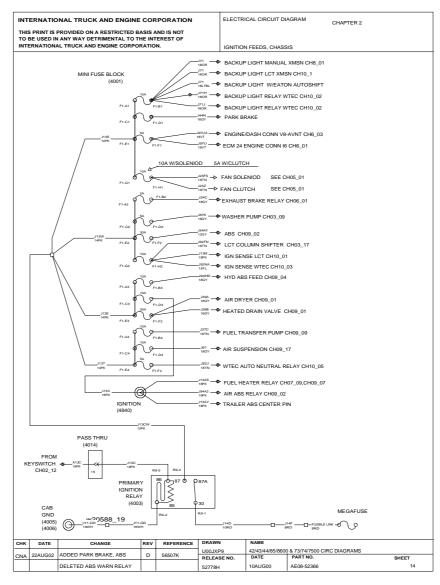


Figure 26 Ignition Feeds, Chassis

#### 2.15. START, P. 15

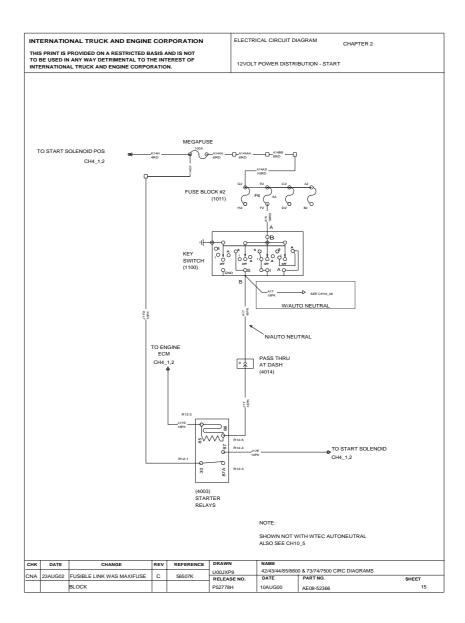


Figure 27 Start

#### 3. CAB ACCESSORIES (CHAPTER 3)

#### 3.1. CIGAR LIGHTER AND POWER FEEDS, P. 1

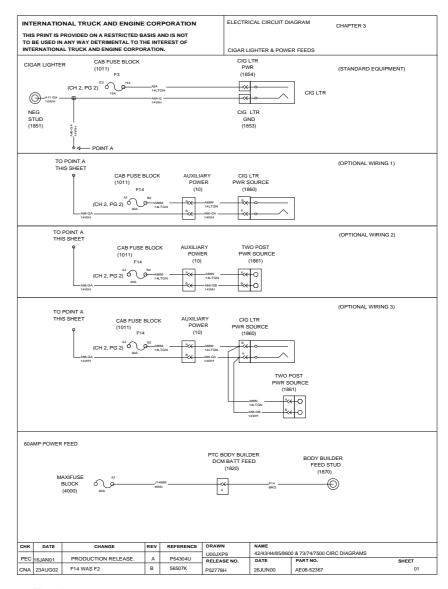


Figure 28 Cigar Lighter and Power Feeds

#### 3.2. CB POWER, P. 2

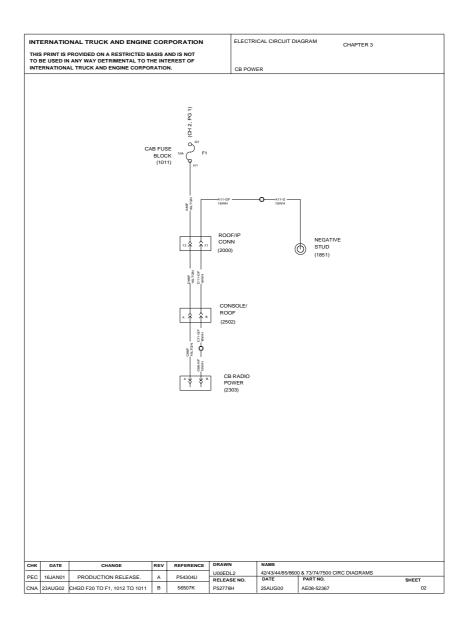


Figure 29 CB Power

#### 3.3. COMPASS AND TEMPERATURE DISPLAY, P. 3

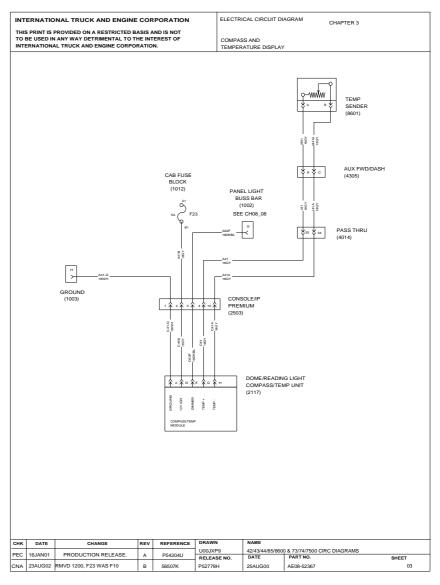


Figure 30 Compass and Temperature Display

#### 3.4. FRONT DOORS WINDOWS AND LOCKS (POWER), P. 4

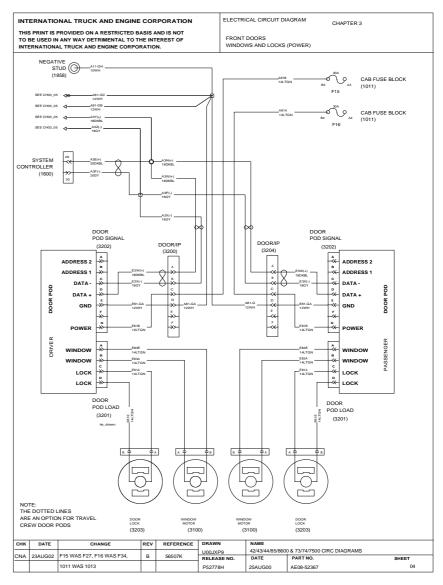


Figure 31 Front Doors Windows and Locks (Power)

## 3.5. CREW DOORS WINDOWS AND LOCKS (POWER), P. 5

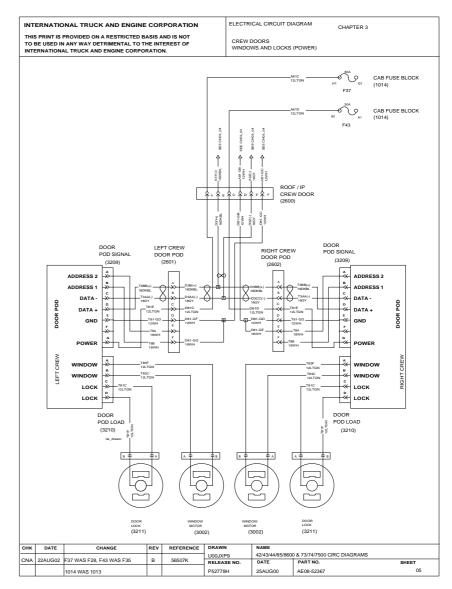


Figure 32 Crew Doors Windows and Locks (Power)

#### 3.6. HORN, DUAL ELECTRIC, P. 6

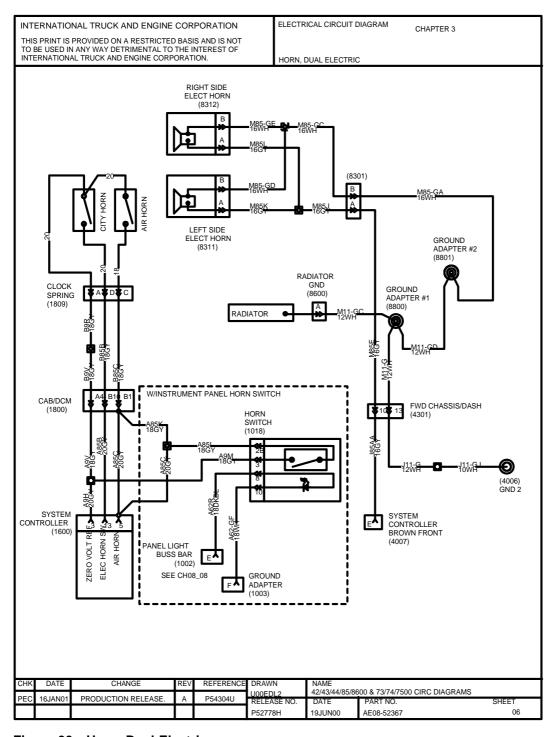


Figure 33 Horn, Dual Electric

## 3.7. MIRRORS (HEATED, LIGHTED AND POWER), P. 7

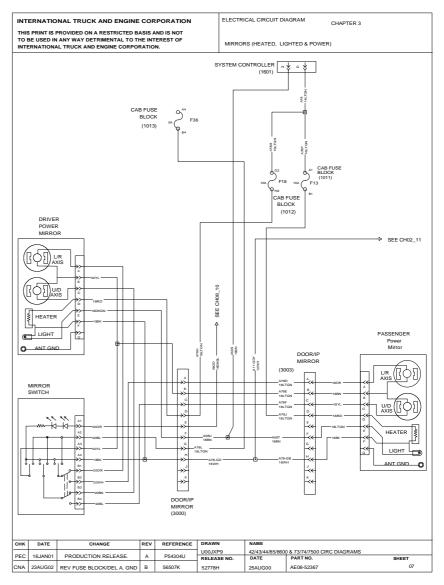


Figure 34 Mirrors (Heated, Lighted and Power)

#### 3.8. RADIO (ENTERTAINMENT), SPEAKERS, P. 8

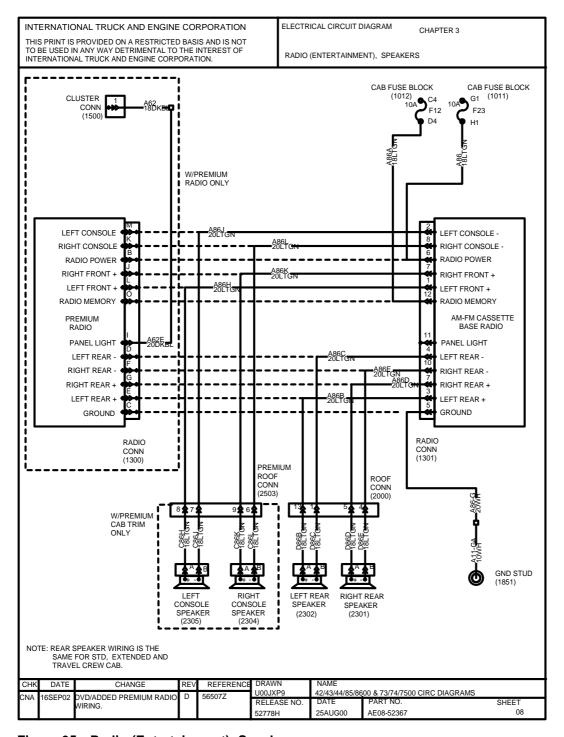


Figure 35 Radio (Entertainment), Speakers

#### 3.9. WINDSHIELD WIPER AND WASHER PUMP, P. 9

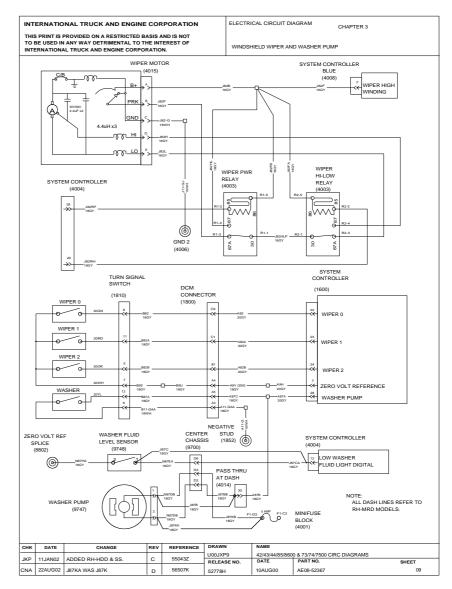


Figure 36 Windshield Wiper and Washer Pump

#### 3.10. 2-WAY RADIO, P. 10

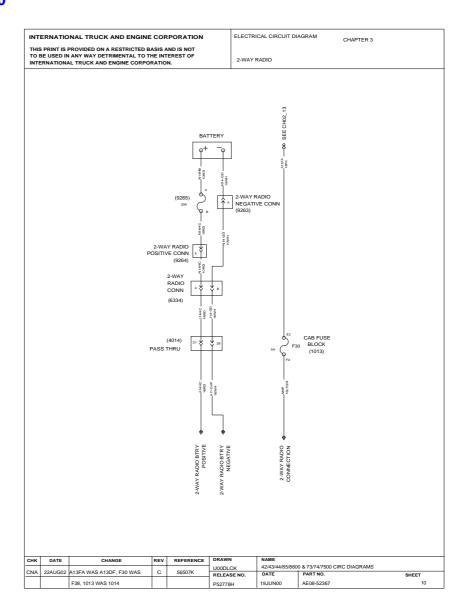


Figure 37 2-Way Radio

#### 3.11. SWITCH PACK, OPTIONAL GAUGE PACK, P. 11

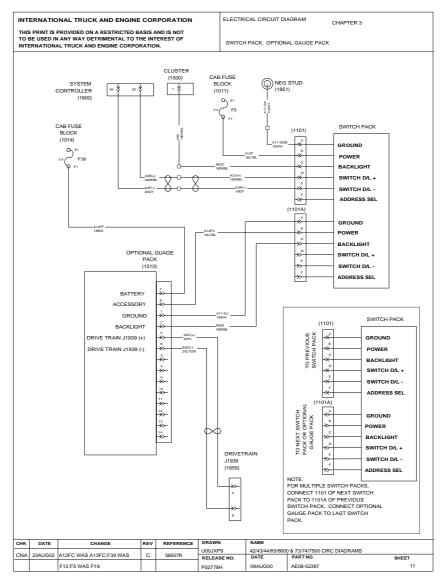


Figure 38 Switch Pack, Optional Gauge Pack

#### 3.12. LIGHTED AIR SHIELD, P. 12

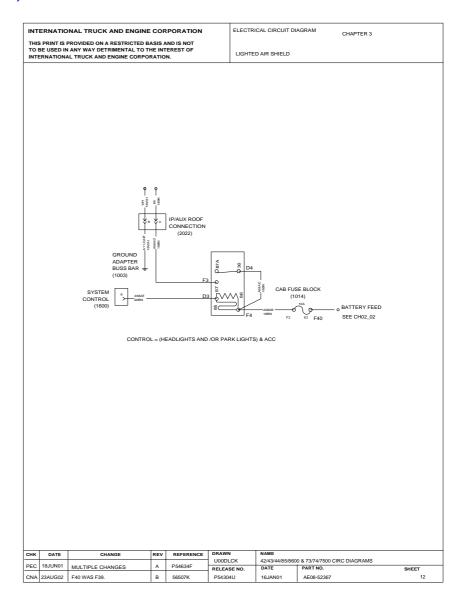


Figure 39 Lighted Air Shield

#### 3.13. ROOF AUX. LOAD, P. 13

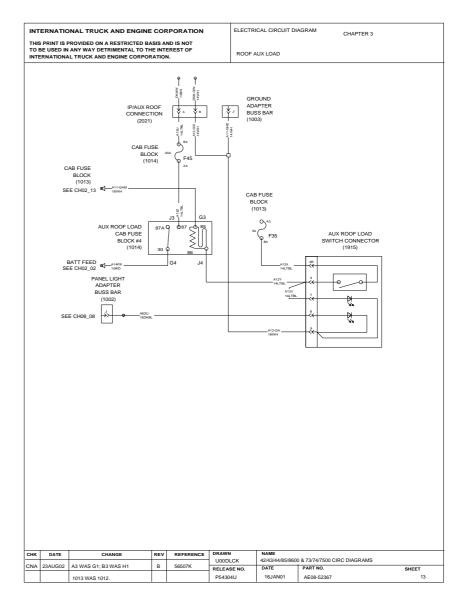


Figure 40 Roof Aux. Load

#### 3.14. SATELLITE COMMUNICATION QUALCOMM-MCT AND IMCT SYSTEMS, P. 14

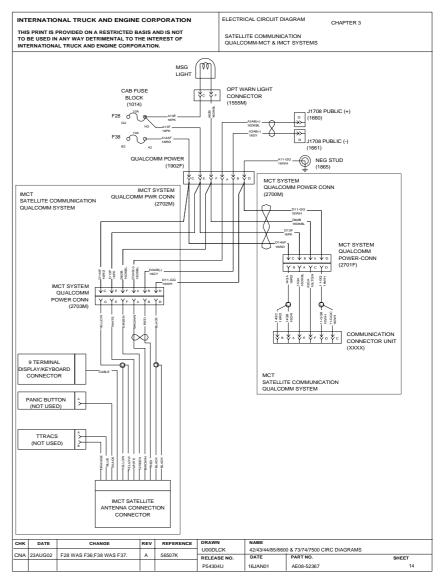


Figure 41 Satellite Communication Qualcomm-MCT and IMCT Systems

#### 3.15. SELF CONTAINED AIR SEAT, P. 15

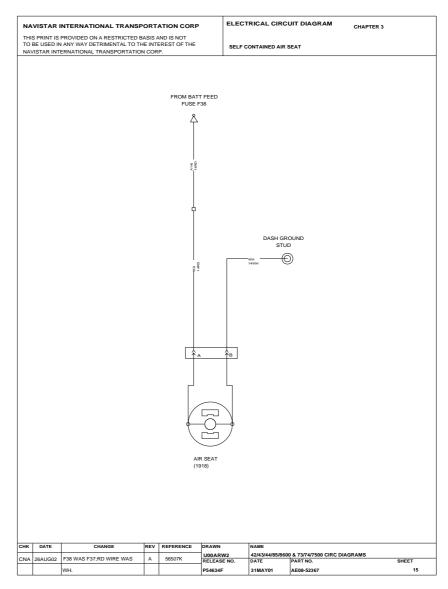


Figure 42 Self Contained Air Seat

## 3.16. DIGITAL CLOCK PTC, P. 16

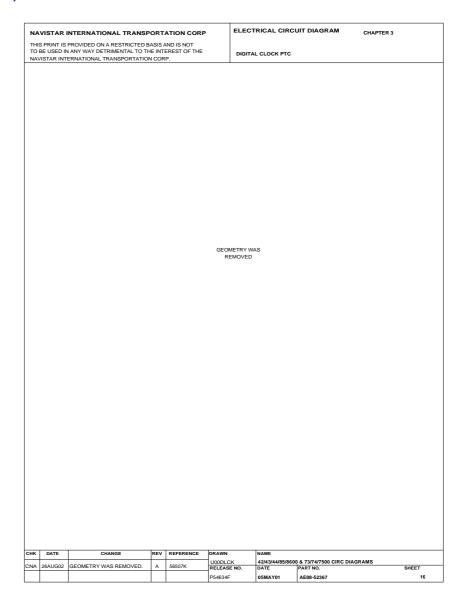


Figure 43 Digital Clock PTC

#### 3.17. TRANSMISSION ALLISON LCT COLUMN SHIFTER, P. 17

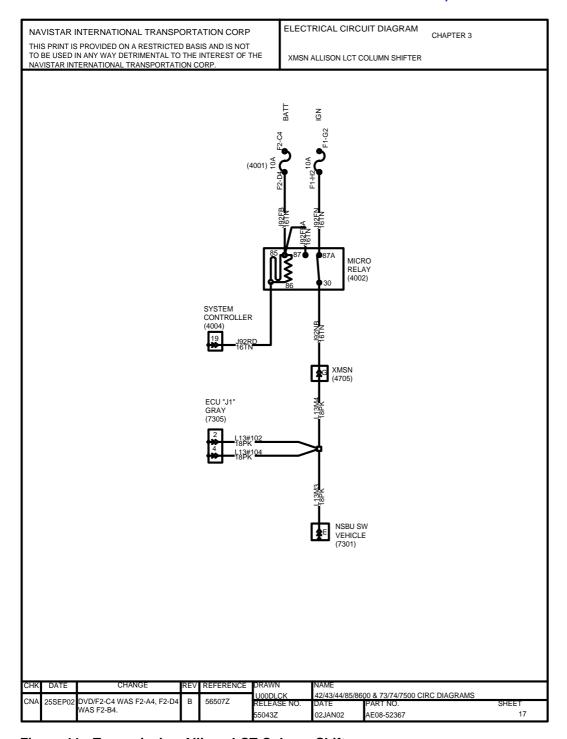


Figure 44 Transmission Allison LCT Column Shifter

## 4. 12V CHARGING + CRANKING SYSTEM (CHAPTER 4)

#### 4.1. I6 HEUI ENGINES, P. 1

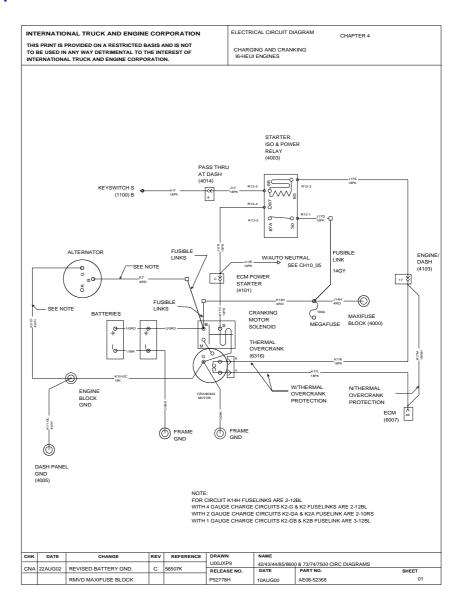


Figure 45 I6 HEUI Engines

## 4.2. V8 AVNT ENGINES, P. 2

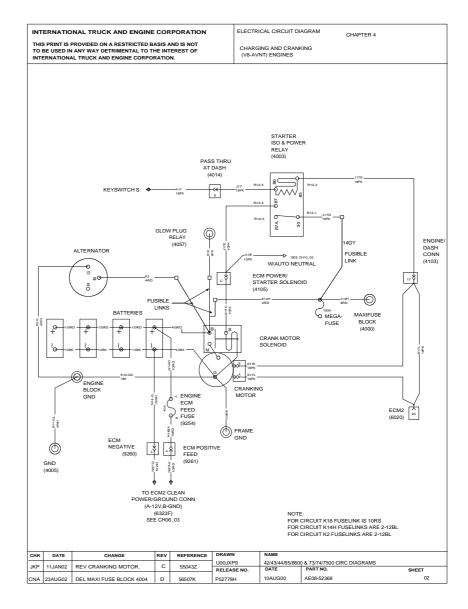


Figure 46 V8 AVNT Engines

#### 4.3. CATERPILLAR ENGINES, P. 3

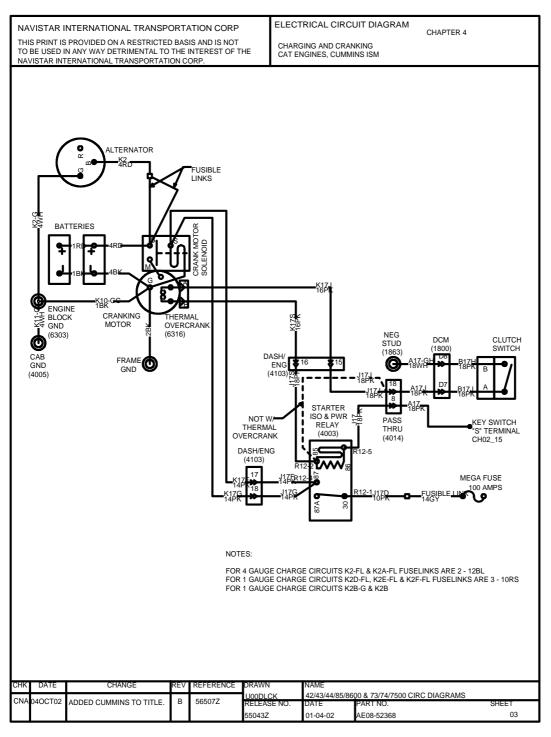


Figure 47 Caterpillar Engines

## 5. FANS AND ENGINE ACCESSORIES (CHAPTER 5)

#### **5.1. FAN WIRING, P. 1**

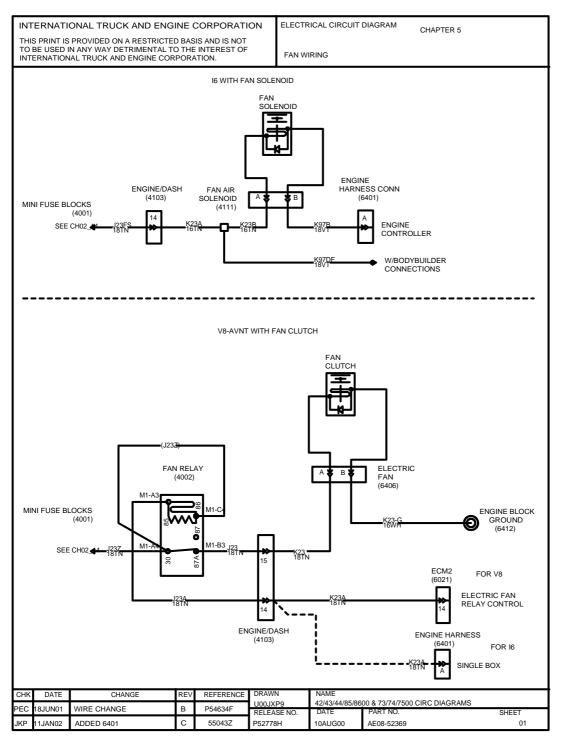


Figure 48 Fan Wiring

#### 5.2. ETHER START, P. 2

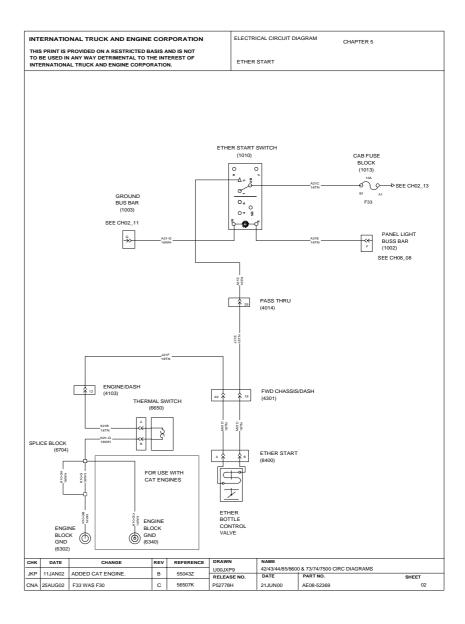


Figure 49 Ether Start

#### **5.3. SNOW VALVE, P. 3**

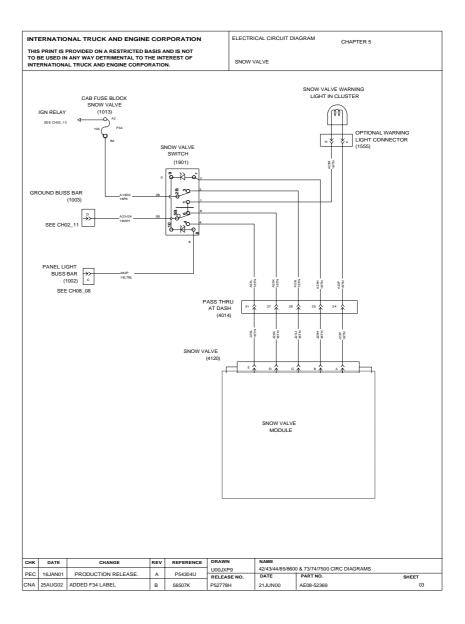


Figure 50 Snow Valve

#### 5.4. FAN WIRING, CATERPILLAR AND CUMMINS, P. 4

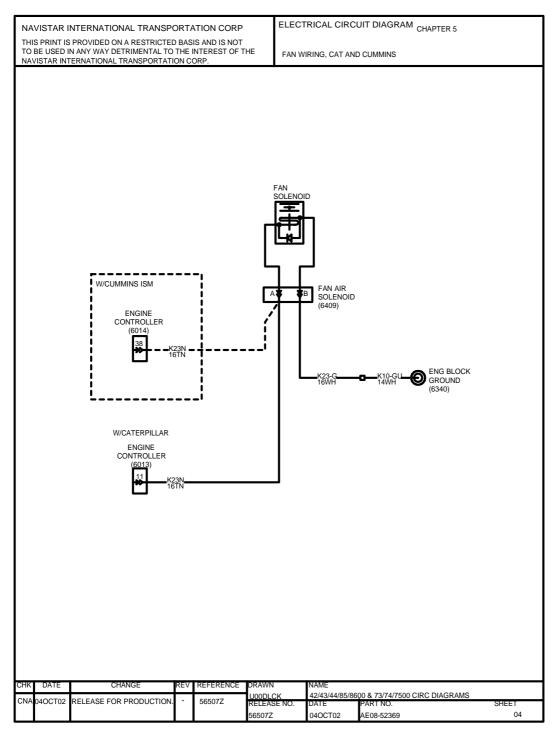


Figure 51 Fan Wiring, Caterpillar and Cummins

## 6. ELECTRONIC ENGINES (CHAPTER 6)

## 6.1. ELECTRONIC ENGINE CONTROLS, I6-HEUI ENGINES, P. 1

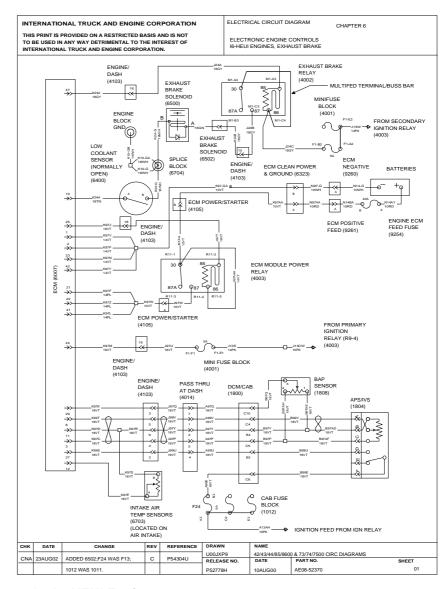


Figure 52 Electronic Engine Controls, I6-HEUI Engines

# 6.2. ELECTRONIC ENGINE CONTROLS, I6-HEUI ENGINE CRUISE CONTROL AND BODY BUILDER CONNECTIONS, P. 2

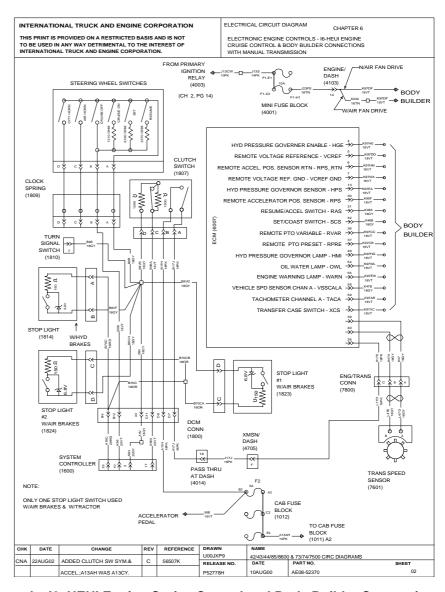


Figure 53 Electronic Engine Controls, I6-HEUI Engine Cruise Control and Body Builder Connections

#### 6.3. ELECTRONIC ENGINE CONTROLS, (V8-AVNT) ENGINES, P. 3

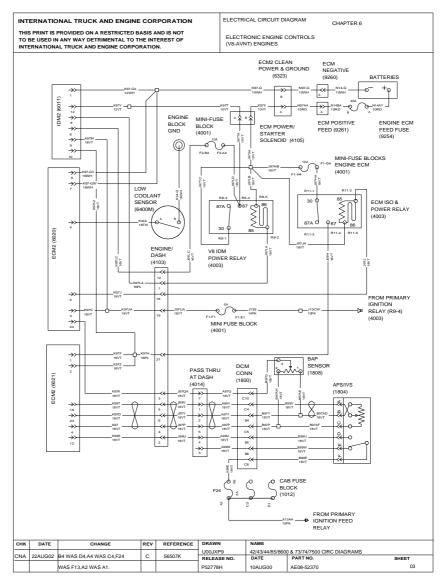


Figure 54 Electronic Engine Controls, (V8-AVNT) Engines

## 6.4. ELECTRONIC ENGINE CONTROLS, V8-AVNT ENGINE CRUISE CONTROL AND BODY BUILDER CONNECTIONS, P. 4

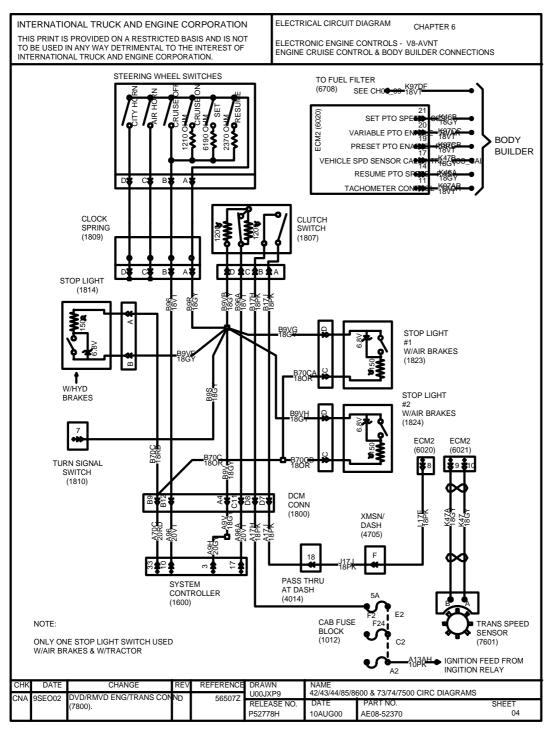


Figure 55 Electronic Engine Controls, V8-AVNT Engine Cruise Control and Body Builder Connections

#### 6.5. CATERPILLAR C10 AND C12 ENGINES, P. 5

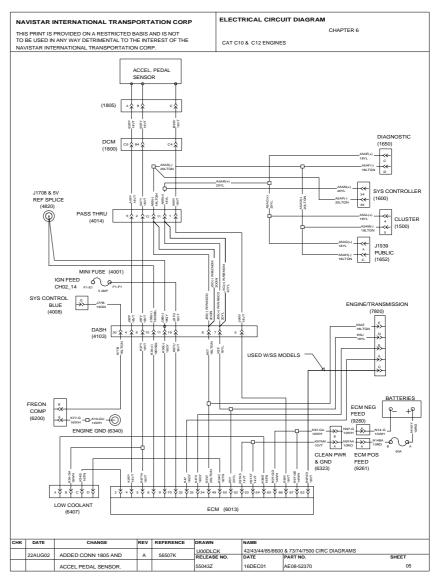


Figure 56 Caterpillar C10 and C12 Engines

#### 6.6. CUMMINS ISM ENGINE, P. 6

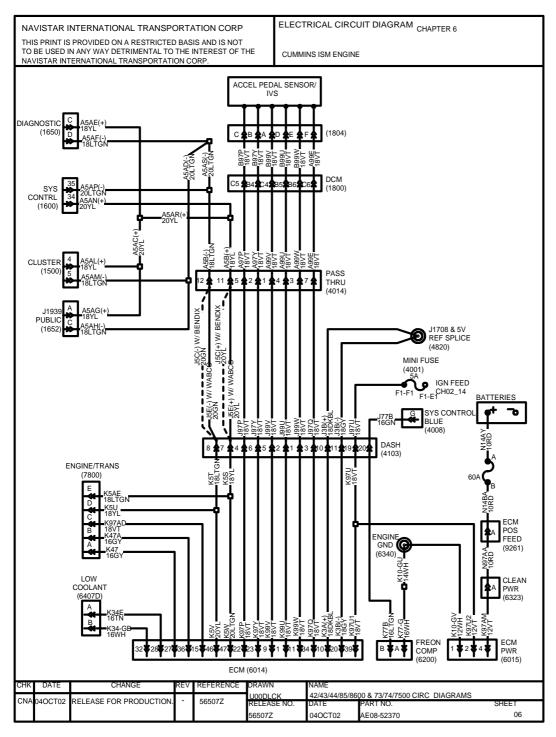


Figure 57 Cummins Engine