

SERVICE MANUAL

SERVICE MANUAL SECTION

**3200, 4100, 4300, 4400, 7300, 7400, 7500, 7600, 7700, 8500, RXT
Models Built March, 2008 to May 16, 2010 — ELECTRICAL CIRCUIT
DIAGRAMS**

Model: 3200

Start Date: 03/19/2008 End Date: 05/16/2010

Model: 4100

Start Date: 03/19/2008 End Date: 05/16/2010

Model: 4300

Start Date: 03/19/2008 End Date: 05/16/2010

Model: 4400

Start Date: 03/19/2008 End Date: 05/16/2010

Model: 7300

Start Date: 03/19/2008 End Date: 05/16/2010

Model: 7400

Start Date: 03/19/2008 End Date: 05/16/2010

Model: 7500

Start Date: 03/19/2008 End Date: 05/16/2010

Model: 7600

Start Date: 03/19/2008 End Date: 05/16/2010

Model: 7700

Start Date: 03/19/2008 End Date: 05/16/2010

Model: 8500

Start Date: 03/19/2008 End Date: 05/16/2010

Model: 8600

Start Date: 03/19/2008 End Date: 05/16/2010

Model: RXT

Start Date: 03/19/2008 End Date: 05/16/2010

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March, 2008 to May 16, 2010 — ELECTRICAL CIRCUIT DIAGRAMS

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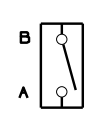
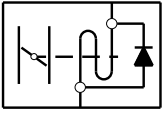
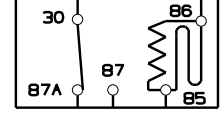
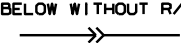
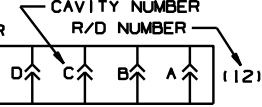
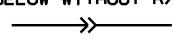
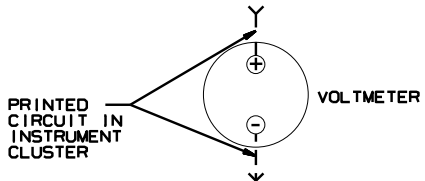
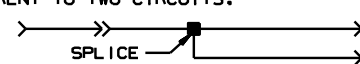
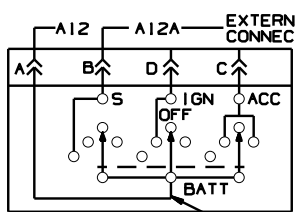
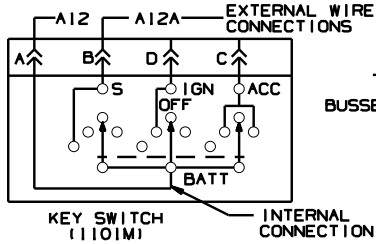
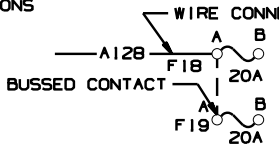

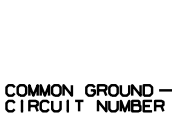
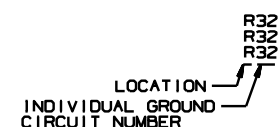
INTERNATIONAL TRUCK AND ENGINE CORPORATION				ELECTRICAL CIRCUIT DIAGRAM CHAPTER 2	
THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF INTERNATIONAL TRUCK AND ENGINE CORPORATION.				ABBREVIATIONS	
ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
ACCESS	ACCESSORY	CRUS	CRUISE	PWR	POWER
ACCUM	ACCUMULATOR	CUR	CURRENT	PRESS	PRESSURE
AC	AIR CONDITIONING	DPNL	DASH PANEL	RAD	RADIO
AIR CLNR	AIR CLEANER	DFTR	DEFLECTOR	RLY	RELAY
ALT	ALTERNATOR	DFR	DEFROSTER	RES	RESISTOR
ACCEL	ACCELERATOR	DEG	DEGREE	REGEN	REGENERATE
AFTR	AFTERTREATMENT	DIAG	DIAGRAM	R	RIGHT
AMM	AMMETER	DSL	DIESEL	RTR	ROTOR
AMP	AMPERE	DIFF	DIFFERENTIAL	SNSR	SENSOR
AMP HR	AMPERE HOUR	DIMR	DIMMER	SHLD	SHIELD
AMPL	AMPLIFIER	ELEC	ELECTRICAL	SHFT	SHIFTER
ARM	ARMATURE	ELEX	ELECTRONIC	SLPR	SLEEPER
ARSR	ARRESTER	ENG	ENGINE	SLV	SLEEVE
ASSY	ASSEMBLY	EXH	EXHAUST	SPKR	SPEAKER
AUX	AUXILIARY	FL	FLUID	SPR	SPRING
B/U	BACK-UP	FWD	FORWARD	STD	STANDARD
BTRY	BATTERY	FR	FRONT	STRG	STEERING
BM	BENCHMARKING	FREQ	FREQUENCY	STLITE	SATELLITE
BLK	BLOCK	GA	GAUGE	SUNSH	SUNSHADE
BOOS	BOOSTER	GEN	GENERATOR	SW	SWITCH
BOT	BOTTOM	GND	GROUND	SYS	SYSTEM
BK	BRAKE	HARN	HARNESS	TACH	TACHOMETER
BRKR	BREAKER	HDLP	HEADLAMP	TEMP	TEMPERATURE
BRTHR	BREATHER	HTD	HEATED	TERM	TERMINAL
BRI	BRIGHT	HT TR	HEAT TREAT	THROT	THROTTLE
BUZ	BUZZER	HTR	HEATER	THRU	THROUGH
CA	CABLE	HP	HORSEPOWER	TRAC	TRACTION
CD	CANDELA	HYD	HYDRAULIC	TRLR	TRAILER
CP	CANDLEPOWER	ID	IDENTIFICATION	XDCR	TRANSDUCER
CAP	CAPACITOR	IGN	IGNITION	XFER	TRANSFER
CAT	CATERPILLAR	ILLUM	ILLUMINATION	XFMR	TRANSFORMER
CHAS	CHASSIS	IND	INDICATOR	XSTR	TRANSISTOR
CH	CHOKE	INST	INSTRUMENT	XMSN	TRANSMISSION
CIRC	CIRCUIT	INT	INTERMITTENT	XMTR	TRANSMITTER
CLK	CLOCK	L	LEFT	TRK	TRUCK
CW	CLOCKWISE	LT	LIGHT	UPR	UPPER
CLSTR	CLUSTER	LTR	LIGHTER	VLV	VALVE
CL	CLUTCH	LWR	LOWER	VERT	VERTICAL
COL	COLUMN	MAG	MAGNET	VM	VOLTMETER
COMM	COMMUTATOR	MOD	MODULATOR	VOL	VOLUME
COMPNT	COMPONENT	MDL	MODULE	WSHR	WASHER
CPRSR	COMPRESSOR	MOT	MOTOR	WHL	WHEEL
CONN	CONNECTOR	MTD	MOUNTED	WDO	WINDOW
CONT	CONTINUE	NEG	NEGATIVE	WSHLD	WINDSHIELD
CSL	CONSOLE	N/	NOT WITH	WPR	WIPER
CONT	CONTACT	NO	NUMBER	W/	WITH
CONT	CONTROL	PASS	PASSENGER	W/O	WITHOUT
CONV	CONVERTER	POSN	POSITION		
CLR	COOLER	POS	POSITIVE		
CTSY	COURTESY	POT	POTENTIOMETER		

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
RAW6	D4DEC07	DELETED AC & RR FROM	B	61000T	U00K640	CIRCUIT DIAGRAM, 42/43/44/85/8600 & 73/74/7500
	ABBREVIATIONS LIST				RELEASE NO.	DATE
					59974G	12SEP06
					PART NO.	SHEET
					AE08056608	001

2.2. ACRONYMS, P. 2

INTERNATIONAL TRUCK AND ENGINE CORPORATION				ELECTRICAL CIRCUIT DIAGRAM CHAPTER 2			
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.				ACRONYMS			
DESCRIPTION				ACRONYM			
ANTILOCK BRAKING SYSTEM				ABS			
ANTENNA COMMUNICATION UNIT				ACU			
ALTERNATING CURRENT				AC			
AXLE TO BACK OF CAB				AC			
AXLE TO FRAME				AF			
ACCELERATOR PEDAL MODULE				APM			
ACCELERATOR POSITION SENSOR				APS			
AUXILIARY POWER UNIT				APU			
AMERICAN TRUCKING ASSOCIATION				ATA			
AUTOMATIC TRACTION CONTROL				ATC			
AUDIO VIDEO INTERFACE				AVI			
BAROMETRIC ATMOSPHERE PRESSURE				BAP			
BRAKE HORSEPOWER				BHP			
BACK OF CAB				BOC			
CITIZEN BAND				CB			
COLD CRANKING AMPERES				CCA			
CLEAN POWER ELECTRICAL CONNECTOR				CEC			
CENTRAL JUNCTION BOX				CJB			
CENTRAL PROCESSING UNIT				CPU			
CAB OVER ENGINE				COE			
DIRECT CURRENT				DC			
DRIVER CONTROL MODULE				DCM			
DIGITAL DATA LINK				DDL			
DIESEL OXIDATION CATALYST INLET TEMPERATURE				DOCT			
DIESEL PARTICULATE FILTER				DPF			
DIESEL PARTICULATE FILTER DELTA PRESSURE				DPFDP			
DIESEL PARTICULATE FILTER TEMPERATURE				DPFT			
DIESEL TURBOCHARGED				DT			
DAY TIME RUNNING LIGHTS				DTRL			
ELECTRONIC CONTROL MODULE				ECM			
ELECTRONIC CONTROL UNIT				ECU			
EXHAUST GAS RECIRCULATION				EGR			
EXHAUST GAS TEMPERATURE				EGT			
ELECTRO MAGNETIC INTERFERENCE				EMI			
END OF FRAME				EOF			
ELECTRIC TRAILER BRAKE				ETB			
FRONT AXLE				FA			
FRONT END				FE			
FRONT OF DASH				FOD			
FULL POWER BRAKE				FPB			
GENERIC ELECTRONIC MODULE				GEM			
GLOBAL POSITIONING SYSTEM				GPS			
HYDRAULIC CONTROL UNIT				HCU			
HEAVY DUTY				HD			
DESCRIPTION				ACRONYM			
HEAVY DUTY DIESEL				HDD			
HIGH PERFORMANCE TRUCK				HPT			
HIGH SIDE DRIVER				HSD			
HEATING, VENTILATION, AND AIR CONDITIONING				HVAC			
INJECTOR DRIVE MODULE				IDM			
INPUT/OUTPUT				I/O			
INTEGRATED MOBILE COMMUNICATION TERMINAL				IMCT			
INSTRUMENT PANEL				I/P			
INDEPENDENT POWER TAKE-OFF				IPTO			
INPUT SPEED SENSOR				ISS			
LIGHT COMMERCIAL TRANSMISSION				LCT			
LOW PRESSURE MODULE				LPM			
LOW SIDE DRIVE				LSD			
MEDIUM DUTY				MD			
MOMENTARY ENGINE IGNITION INTERRUPT RELAY				MEIIR			
MALFUNCTION INDICATION LAMP				MIL			
MULTIPLEX SWITCH MODULE				MSM			
OUTPUT SPEED SENSOR				OSS			
PYROMETER AMMETER MODULE				PAM			
POWER DISTRIBUTION CENTER				PDC			
PROGRAMMABLE LOGIC CONTROLLER				PLC			
POWER TAKE-OFF				PTO			
PULSE WIDTH MODULATION				PWM			
REAR AXLE				RA			
RADIO FREQUENCY				RF			
ROLL STABILITY PROGRAM				RSP			
SEVERE SERVICE				SS			
TRANSMISSION CONTROL MODULE				TCM			
TERRESTRIAL COMMUNICATION UNIT				TCU			
TERRESTRIAL MOBILE COMMUNICATION TERMINAL				TMCT			
THERMAL OVERCRANK PROTECTION				TOCP			
THROTTLE POSITION SENSOR				TPS			
TURBINE SPEED SENSOR				TSS			
VEHICLE SPEED OUTPUT				VSO			
VEHICLE SPEED SENSOR				VSS			
WORLD TRANSMISSION ELECTRONIC CONTROLS				WTEC			
ZERO VOLT REFERENCE				ZVR			
CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	
RAW6	04DEC07	REVISED AND REDRAWN	B	61000T	U00K640	CIRCUIT DIAGRAM, 42/43/44/85/8600 & 73/74/7500	
					RELEASE NO.	DATE	PART NO. SHEET
					59974G	12SEP06	AE08056608 002

2.3. CIRCUIT DIAGRAM INSTRUCTIONS, P. 3

<p>INTERNATIONAL TRUCK AND ENGINE CORPORATION</p> <p>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.</p>	<p>ELECTRICAL CIRCUIT DIAGRAM CHAPTER 2</p> <p>CIRCUIT DIAGRAM INSTRUCTIONS</p>																																										
<p>A - SWITCH AND RELAY POSITIONS AS SHOWN ON CIRCUIT DIAGRAMS INDICATE NORMAL POSITION WITH IGNITION OFF UNLESS OTHERWISE NOTED.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>SWITCH, MECHANICAL</p> </div> <div style="text-align: center;">  <p>SOLENOID</p> </div> <div style="text-align: center;">  <p>RELAY - SUPPRESSED</p> </div> </div>	<p>B - MULTIPLE CONNECTIONS ARE DISPLAYED ON SCHEMATIC AS SHOWN WITH R/D NUMBER & CAVITY NUMBER. REFER TO REFLECTOR COMPOSITE FOR MORE INFORMATION</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>R/D NUMBER CAVITY NUMBER</p> </div> <div style="text-align: center;">  <p>CAVITY NUMBER R/D NUMBER</p> </div> </div> <p>SINGLE IN-LINE CONNECTORS DISPLAYED AS SHOWN BELOW WITHOUT R/D NUMBER</p> 																																										
<p>C - PHANTOM LINES INDICATE PRINTED CIRCUITS OR BUSSED CIRCUITS. THESE CIRCUITS EXIST IN THE INSTRUMENT CLUSTER AND FUSE / CIRCUIT BREAKER CONNECTORS.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>PRINTED CIRCUIT IN INSTRUMENT CLUSTER VOLTMETER</p> </div> <div style="text-align: center;">  <p>LOCATION / CIRCUIT NUMBER WIRE GAUGE / WIRE COLOR</p> <p>LOCATION IN FUSE / CIRCUIT BREAKER CONNECTION</p> <p>FUSE RATING</p> </div> </div>																																											
<p>D - MULTIPLE CIRCUIT NUMBERS ON A LINE INDICATE ONE CIRCUIT DISTRIBUTING CURRENT TO TWO CIRCUITS.</p> <div style="text-align: center;">  <p>SPLICE</p> </div>																																											
<p>E - SWITCHES, RELAYS AND COMPONENTS INDICATE EXTERNAL WIRE CONNECTIONS AND / OR INTERNAL CONNECTIONS OR CONTACTS.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>EXTERNAL WIRE CONNECTIONS</p> <p>KEY SWITCH (1101M) INTERNAL CONNECTION</p> </div> <div style="text-align: center;">  <p>WIRE CONNECTION</p> <p>BUSSED CONTACT</p> </div> <div style="text-align: center;">  <p>PIGTAIL</p> <p>BODY CONTROLLER (1602)</p> </div> </div>																																											
<p>F - CIRCUIT "11" DENOTES ANY COMMON GROUND (MORE THAN ONE CIRCUIT). ANY INDIVIDUAL GROUND CIRCUIT IS IDENTIFIED WITH THAT PARTICULAR CIRCUIT NUMBER. I.E.G. CIRCUIT 32 CRUISE CONTROL IS IDENTIFIED AS PER EXAMPLE)</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>COMMON GROUND CIRCUIT NUMBER</p> </div> <div style="text-align: center;">  <p>LOCATION INDIVIDUAL GROUND CIRCUIT NUMBER</p> </div> </div> <p>SUFFIX BEGINNING WITH G INDICATES A GROUND CIRCUIT</p> <p>SUFFIX BEGINNING WITH G INDICATES A GROUND CIRCUIT</p> <p>NOTE: FOR CIRCUIT DESCRIPTION OTHER THAN GROUNDS NEITHER THE LETTER "G" NOR THE COLOR WHITE SHALL BE USED</p>																																											
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2.4. CIRCUIT NUMBER IDENTIFICATION AND COLOR, P. 4

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65	OR	CAB REAR FLOOD LIGHTS																																																																																																																																							
66	YL	DAYTIME RUNNING LIGHTS																																																																																																																																							
67	GY	OBSTACLE AVOIDANCE / REMOTE SENSOR																																																																																																																																							
68	BN	TAIL LIGHTS																																																																																																																																							
69	BN	LICENSE PLATE LIGHT																																																																																																																																							
70	OR	STOP LIGHTS																																																																																																																																							
	RD	STOP LIGHTS (BODY BUILDER CONNECTION)																																																																																																																																							
71	OR	BACK-UP LIGHTS																																																																																																																																							
	LTBL	BACK-UP LIGHTS (BODY BUILDER CONNECTION)																																																																																																																																							
72	OR	TRAILER AUXILIARY FEED - BATTERY																																																																																																																																							
73	LTGN	PWM																																																																																																																																							
74	LTGN	HEATER RECIRCULATION MOTOR																																																																																																																																							
75	LTGN	HEATER BLOWER MOTOR																																																																																																																																							
76	LTGN	AUXILIARY FAN																																																																																																																																							
77	LTGN	AIR CONDITIONER																																																																																																																																							
78	LTGN	MIRRORS - HEATED, MOTORIZED																																																																																																																																							
79	GY	SEAT BELTS																																																																																																																																							
80	BK	SLEEPER BOX RELAY - FEED																																																																																																																																							
81	LTGN	POWER DOOR LOCKS																																																																																																																																							
82	GY	WINDSHIELD WIPER																																																																																																																																							
83	LTGN	POWER WINDOWS																																																																																																																																							
84	LTGN	CIGAR LIGHTER																																																																																																																																							
85	GY	HORN																																																																																																																																							
CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME																																																																																																																																			
RAW6	04DEC07	REVISED AND REDRAWN	B	61000T	U00K640	CIRCUIT DIAGRAM, 42/43/44/85/8600 & 73/74/7500																																																																																																																																			
					RELEASE NO.	DATE																																																																																																																																			
					59974G	12SEP06																																																																																																																																			
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2.6. CIRCUIT NUMBER IDENTIFICATION AND COLOR, P. 6

INTERNATIONAL TRUCK AND ENGINE CORPORATION		ELECTRICAL CIRCUIT DIAGRAM CHAPTER 2	
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.		CIRCUIT NUMBER IDENTIFICATION AND COLOR (CONT)	

CIRCUIT NUMBER	COLOR	DESCRIPTION
86	LTGN	RADIO - ENTERTAINMENT
87	GY	WINDSHIELD WASHER
88	LTGN	CLOCK / HOURMETER
89	VT	AIR BAG
90	GY	HYDRAULIC BRAKE PUMP
91	VT	INTERCOMMUNICATIONS
92	TN	TRANSMISSION CONTROLS - ELECTRONIC
93	TN	AXLE SHIFT CONTROL
94	GY	ANTILOCK BRAKE SYSTEM
95	TN	EXHAUST EMISSION
96	YL	SNOW PLOW LIGHTS / CRUISE CONTROLS
97	VT	ENGINE CONTROLS - ELECTRONIC
98	BK	DATALINK AND DIAGNOSTICS
99	VT	ACCELERATOR POSITION SENSOR (APS)
100	GY	AIR HORN (ELECTRIC SOLENOID ACTUATED)
101	TN	BRAKE APPLICATION AIR
102	YL	FLASH TO PASS
103	LTGN	BODY BUILDER AUXILIARY FEED
104	DKBL	REMOTE START / STOP
105	LTGN	HEATED SEATS
106	OR	HIGH VOLTAGE ALTERNATOR AC CHARGE
107	GY	INSTRUMENT CLUSTER ELECTRONIC FEED (5V)
108	GY	BRAKE PAD WEAR SENSOR
109	GY	SLACK ADJUSTER
110	GY	INSTRUMENT CLUSTER ELECTRONIC GROUND
111	TN	FUEL FILTER RESTRICTION TRANSDUCERS
112	GY	LIFT GATE

PREFIX	LOCATION
A	CAB - INSTRUMENT PANEL MODULE
B	CAB - DRIVER CONTROL MODULE
C	CAB - HEADER / CLEARANCE LIGHTS
D	CAB - ROOF / REAR PANEL
E	CAB - LEFT DOOR / DOORS
F	CAB - RIGHT DOOR / DOORS
H	CAB - SLEEPER
J	CAB - DASH (OUTSIDE)
K	ENGINE / RADIATOR
L	TRANSMISSION
M	CHASSIS / FRONT END (CAB DASH PANEL FORWARD)
N	CHASSIS - CENTER SECTION (CAB DASH PANEL TO CAB REAR CROSS MEMBER)
P	CHASSIS - WHEEL BASE SECTION
R	CHASSIS - SUSPENSION / REAR AXLE / AXLES
S	CHASSIS - AF SECTION / STOP / TAIL / TURN LIGHTS
T	TRAVEL DOORS
U	HOOD MTD HEADLIGHTS / MARKER LIGHTS
V	SLEEPER ROOF / BACK PANEL WIRING
W	WARDROBE CABINET WIRING

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
RAW6	04DEC07	REVISED AND REDRAWN	B	61000T	U00K640	CIRCUIT DIAGRAM, 42/43/44/85/8600 & 73/74/7500
					RELEASE NO. 59974G	DATE 12SEP06
						PART NO. AE08056608
						SHEET 006

2.7. LAMP BULB CHART, P. 7

INTERNATIONAL TRUCK AND ENGINE CORPORATION				ELECTRICAL CIRCUIT DIAGRAM		CHAPTER 2	
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 BULB CHART			
BULB APPLICATION		CANDLEPOWER OR WATT		BULB TRADE NUMBER			
BACK - UP LIGHTS		32 CP		GE1156			
CLEARANCE & IDENTIFICATION		3 CP		GE193			
COURTESY LIGHT		3CP		GE168			
FOG LIGHTS		55 WATTS		VH550			
LOW BEAMS		65 WATTS		GE9007			
HIGH BEAMS		65 WATTS		GE9007			
MAP LIGHT		3 CP		1816			
SIDE MARKER				2548			
STOP & TURN / TAIL & LICENSE PLATE		32/3 CP		1157			
TURN SIGNAL / MARKER (FENDER)				3157			
TURN SIGNAL & MARKER LIGHT				2356			
WORK (TRAILER HOOK - UP)		35 WATTS		4411			
CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	
					U00K640	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS	
					RELEASE NO.	DATE	PART NO. SHEET
					59974G	20APR06	AF08-56608 07

2.8. RELAY FUNCTION AND WIRING GUIDE, P. 8


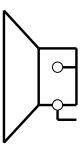
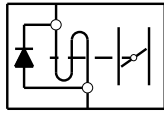
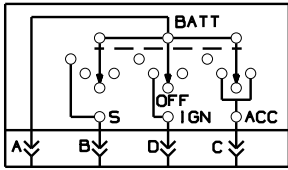

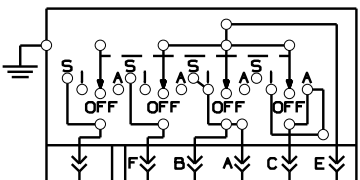

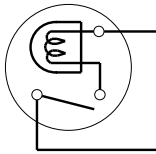

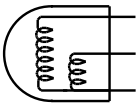
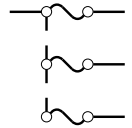


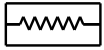

INTERNATIONAL TRUCK AND ENGINE CORPORATION				ELECTRICAL CIRCUIT DIAGRAM		CHAPTER 2	
THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF INTERNATIONAL TRUCK AND ENGINE CORPORATION.				RELAY FUNCTION AND WIRING GUIDE			
RELAY VIEWED FROM INSERTION END				RELAY SCHEMATIC			
MINIATURE - ISO (1)							
MINIATURE - 280 (1)							
MICRO - 280 (1)							
MICRO - ISO (1)							
MICRO - 4 PIN (1)							
MINI MICRO - 4 PIN (2)							
NOTES : 1. RELAY CONTAINS A 680 OHM SUPPRESSION RESISTOR 2. RELAY CONTAINS A 1000 OHM SUPPRESSION RESISTOR							
CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	
					U00K640	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS	
					RELEASE NO.	DATE	PART NO.
					59974G	20APR06	AF08-56608
							SHEET
							08

2.9. SCHEMATIC SYMBOL CHART, P. 9


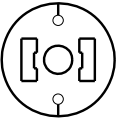



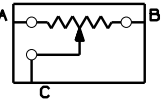
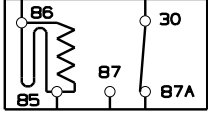
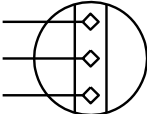
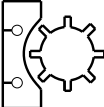
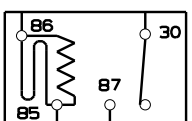
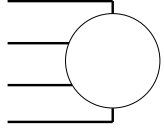
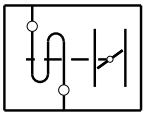
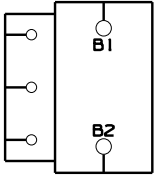
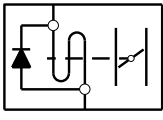
INTERNATIONAL TRUCK AND ENGINE CORPORATION				ELECTRICAL CIRCUIT DIAGRAM CHAPTER 2			
THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF INTERNATIONAL TRUCK AND ENGINE CORPORATION.				SCHEMATIC SYMBOL CHART			
		ACCEL PEDAL POSN SENSOR				AMMETER	
		ACCEL PEDAL POSN SENSOR				BATTERY	
		AIR DRYER				BLUNT CUT CIRCUIT	
		ALARM				BUSBAR	
		ALTERNATOR				CIGAR LIGHTER	
		ALARM				CIRCUIT BREAKER	
		ALTERNATOR				DIODE	

Chg	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
CNA	0MAY07	ADDED SYMBOL FOR	A	60782A	U00K640	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS
		ACCEL PEDAL POSN SNSR			RELEASE NO.	DATE
					59974G	12SEP06
					PART NO.	SHEET
					AE08-56608	09

2.10. SCHEMATIC SYMBOL CHART, P. 10

INTERNATIONAL TRUCK AND ENGINE CORPORATION <small>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.</small>				ELECTRICAL CIRCUIT DIAGRAM CHAPTER 2 SCHEMATIC SYMBOL CHART (CONT)			
SYMBOL				SYMBOL			
	DIODE, LIGHT EMITTING				HORN		
	FAN SOLENOID				KEY SWITCH		
	FEMALE TERMINAL				KEY SWITCH, COMPLEX		
	FUSE				LIGHT W/ SWITCH		
	FUSIBLE LINK				LIGHT, DOUBLE FILAMENT		
	FUSES W/ BUSBAR				LIGHT, SINGLE FILAMENT		
	GROUND N/ STUD						
	HEATER						
	HOLDER, FUSE W/ BUSBAR						
CHG	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	
CNA	9MAY07	REVISED & REDRAWN	A	60782A	U00K640	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS	
					RELEASE NO.	DATE	PART NO.
					59974G	12SEP06	AE08-56608
						SHEET	10

2.11. SCHEMATIC SYMBOL CHART, P. 11

INTERNATIONAL TRUCK AND ENGINE CORPORATION <small>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.</small>				ELECTRICAL CIRCUIT DIAGRAM CHAPTER 2 SCHEMATIC SYMBOL CHART (CONT)		
	MALE TERMINAL		MOTOR		RESISTOR	
	PASS THRU CONNECTION		PRESSURE SWITCH		SENDER - FUEL, OIL, TEMP, WATER	
	RELAY, FIVE TERMINAL		SENSOR, PRESSURE, ABS 6		SENSOR, MAGNETIC	
	RELAY, FOUR TERMINAL		SENSOR, YAW		SOLENOID	
	RELAY, LATCHING		SOLENOID W/ DIODE			
CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
CNA	05MAY07	REVISED & REDRAWN	A	60782A	U00K640	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS
					RELEASE NO.	DATE
					59974G	20APR06
					PART NO.	SHEET
					AE08-56608	11

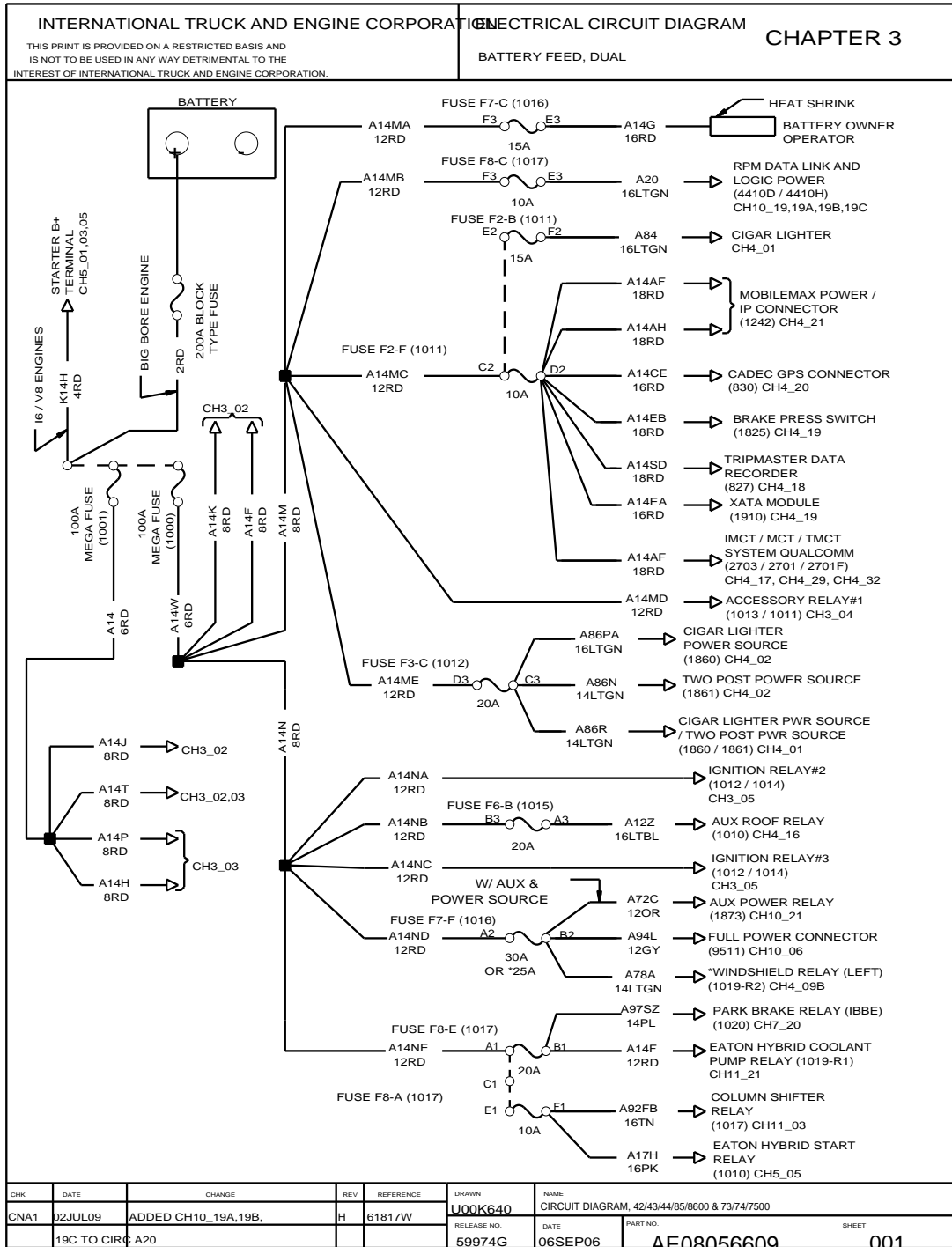
2.12. SCHEMATIC SYMBOL CHART, P.12

INTERNATIONAL TRUCK AND ENGINE CORPORATION				ELECTRICAL CIRCUIT DIAGRAM CHAPTER 2			
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.				SCHEMATIC SYMBOL CHART (CONT)			
SYMBOL		DESCRIPTION		SYMBOL		DESCRIPTION	
		SPEAKER				SWITCH, PUSH BUTTON	
		SPLICE				TERMINATING RESISTOR	
		STUD				THERMISTOR	
		START MOTOR W/ TOCP				THERMOSTAT	
		SWITCH, MECHANICAL (NORMALLY OPEN)				VALVE, ETHER BOTTLE	
		SWITCH, MECHANICAL (NORMALLY CLOSED)				VALVE, MODULATOR	
CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	
RAW6	04DEC07	REVISED START MOTOR	B	61000T	U00K640	CIRCUIT DIAGRAM, 42/43/44/85/8600 & 73/74/7500	
	SYMBOL				RELEASE NO.	DATE	PART NO. SHEET
					59974G	20APR06	AE08056608 012

**12 VOLT POWER DISTRIBUTION, GROUNDS,
DATA BUS AND ELECTRICAL SYSTEM CONTROLLER (CHAPTER 3)**

**3. 12 VOLT POWER DISTRIBUTION, GROUNDS, DATA BUS AND
ELECTRICAL SYSTEM CONTROLLER (CHAPTER 3)**

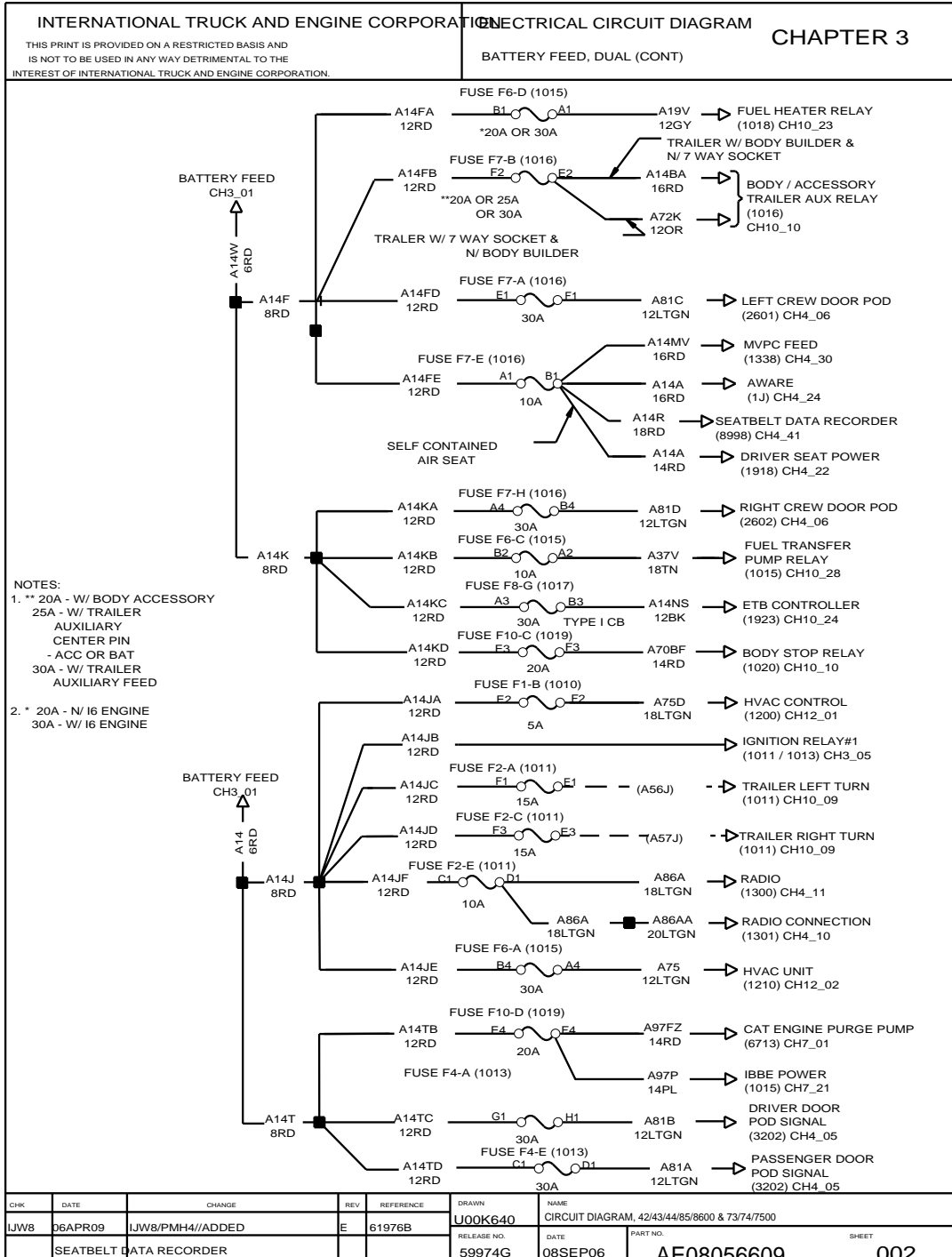
3.1. BATTERY FEED, DUAL, P. 1



12 VOLT POWER DISTRIBUTION, GROUNDS, DATA BUS AND ELECTRICAL SYSTEM CONTROLLER
(CHAPTER 3)

BATTERY FEED, DUAL, P. 2

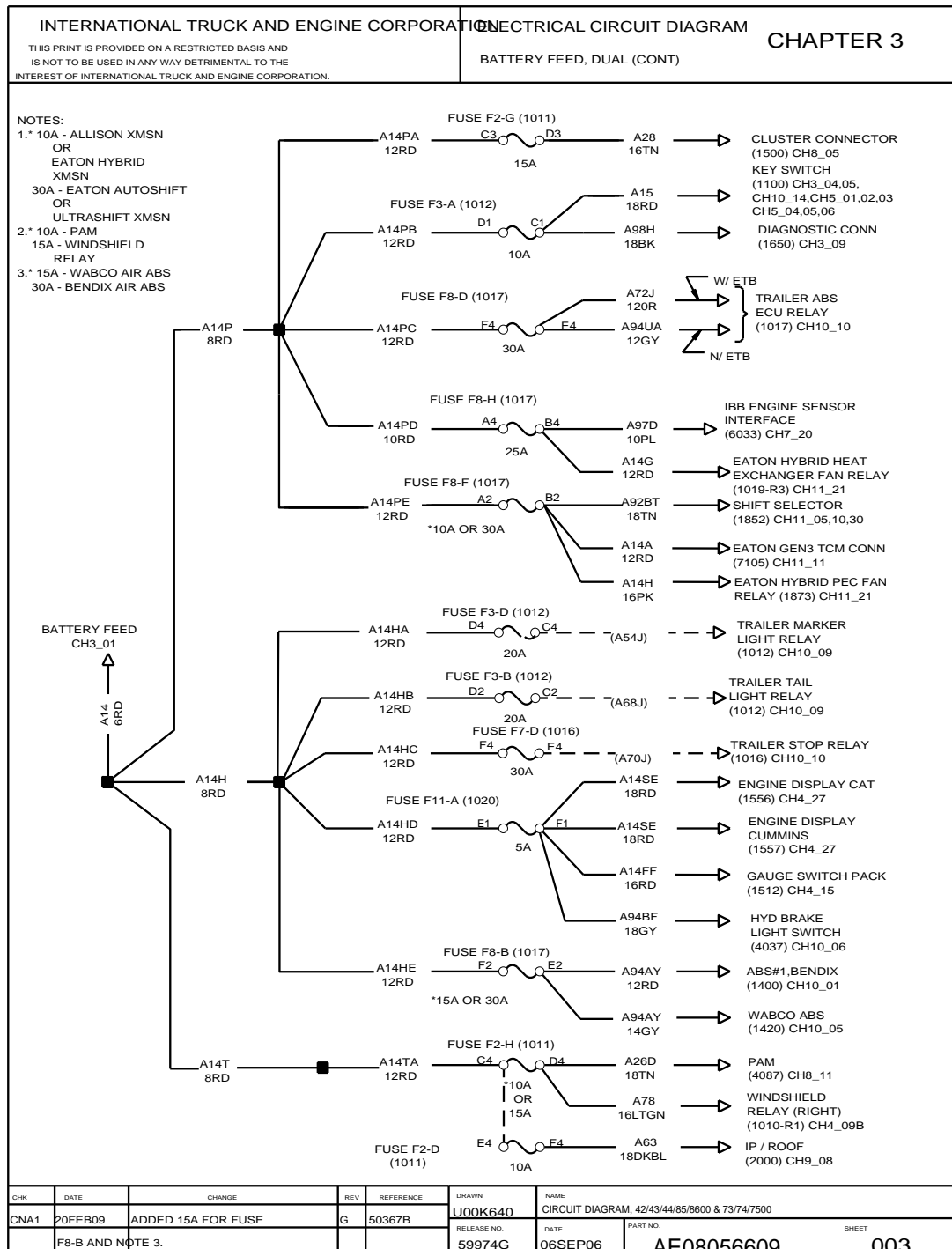
3.2. BATTERY FEED, DUAL, P. 2



BATTERY FEED, DUAL, P. 3
DATA BUS AND ELECTRICAL SYSTEM CONTROLLER (CHAPTER 3)

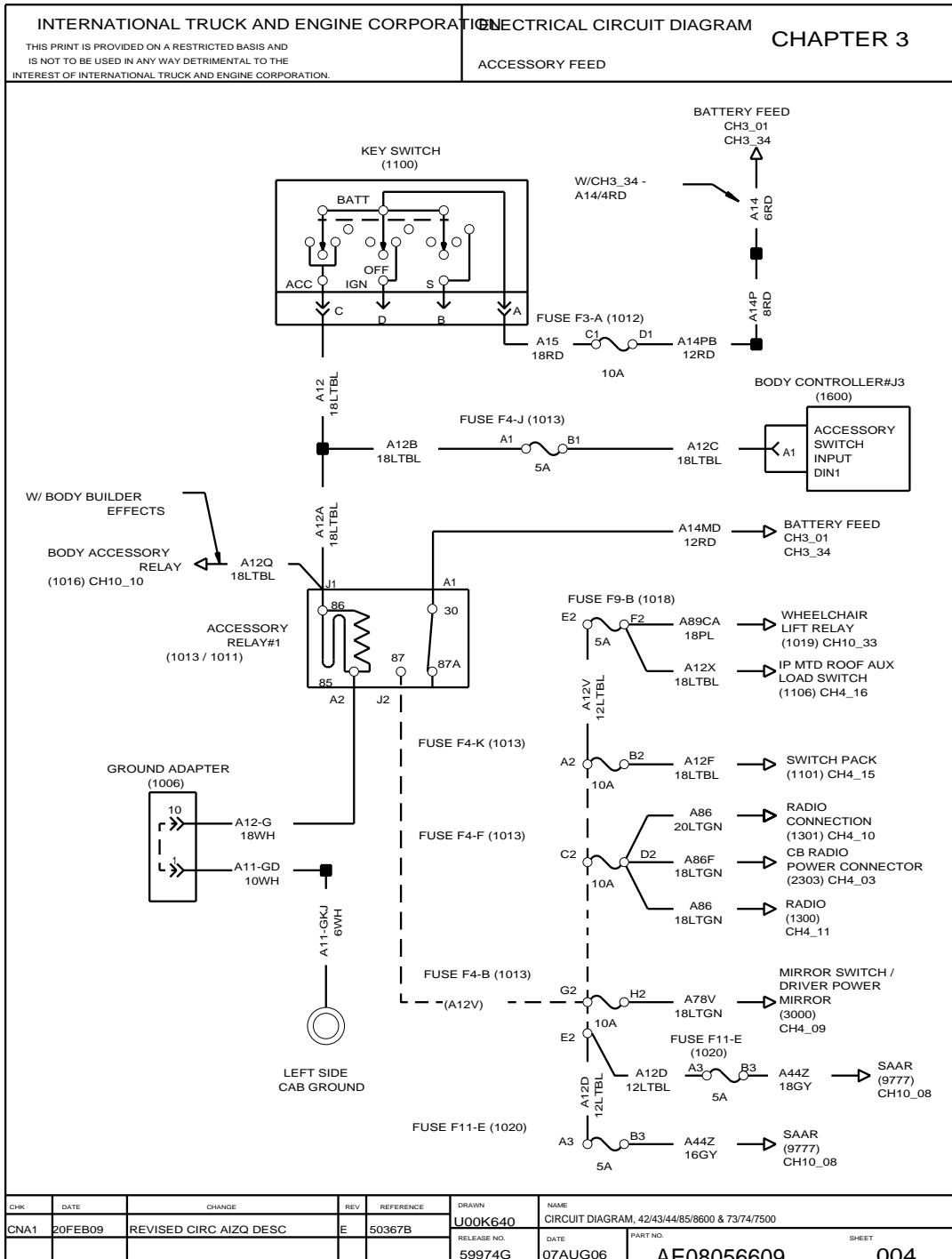
12 VOLT POWER DISTRIBUTION, GROUNDS,

3.3. BATTERY FEED, DUAL, P. 3



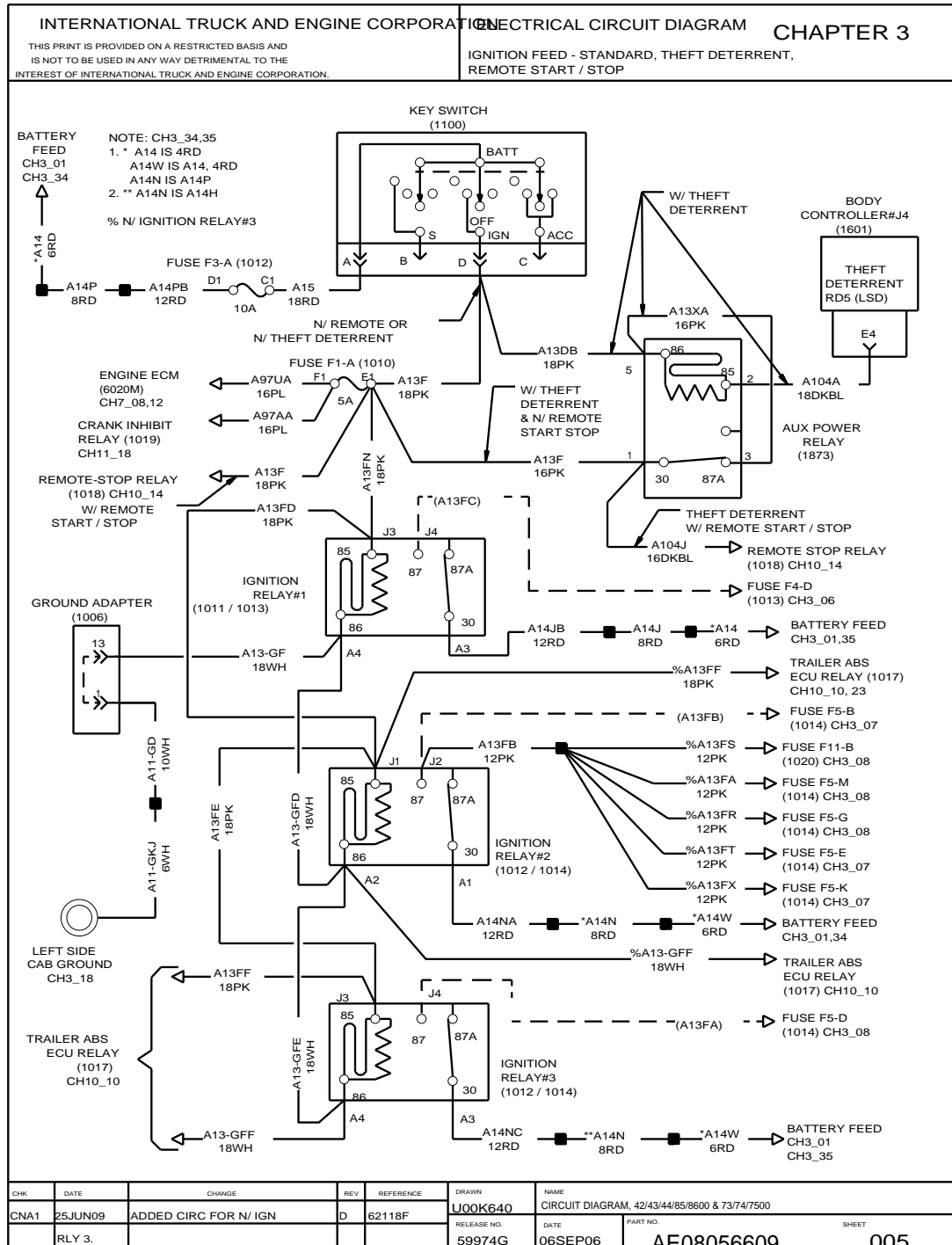
**12 VOLT POWER DISTRIBUTION, GROUNDS, DATA BUS AND ELECTRICAL SYSTEM CONTROLLER
(CHAPTER 3)
ACCESSORY FEED, P. 4**

3.4. ACCESSORY FEED, P. 4



IGNITION FEED — STANDARD, THEFT DETERRENT, REMOTE START/STOP, P. 5 12 VOLT POWER DISTRIBUTION, GROUNDS, DATA BUS AND ELECTRICAL SYSTEM CONTROLLER (CHAPTER 3)

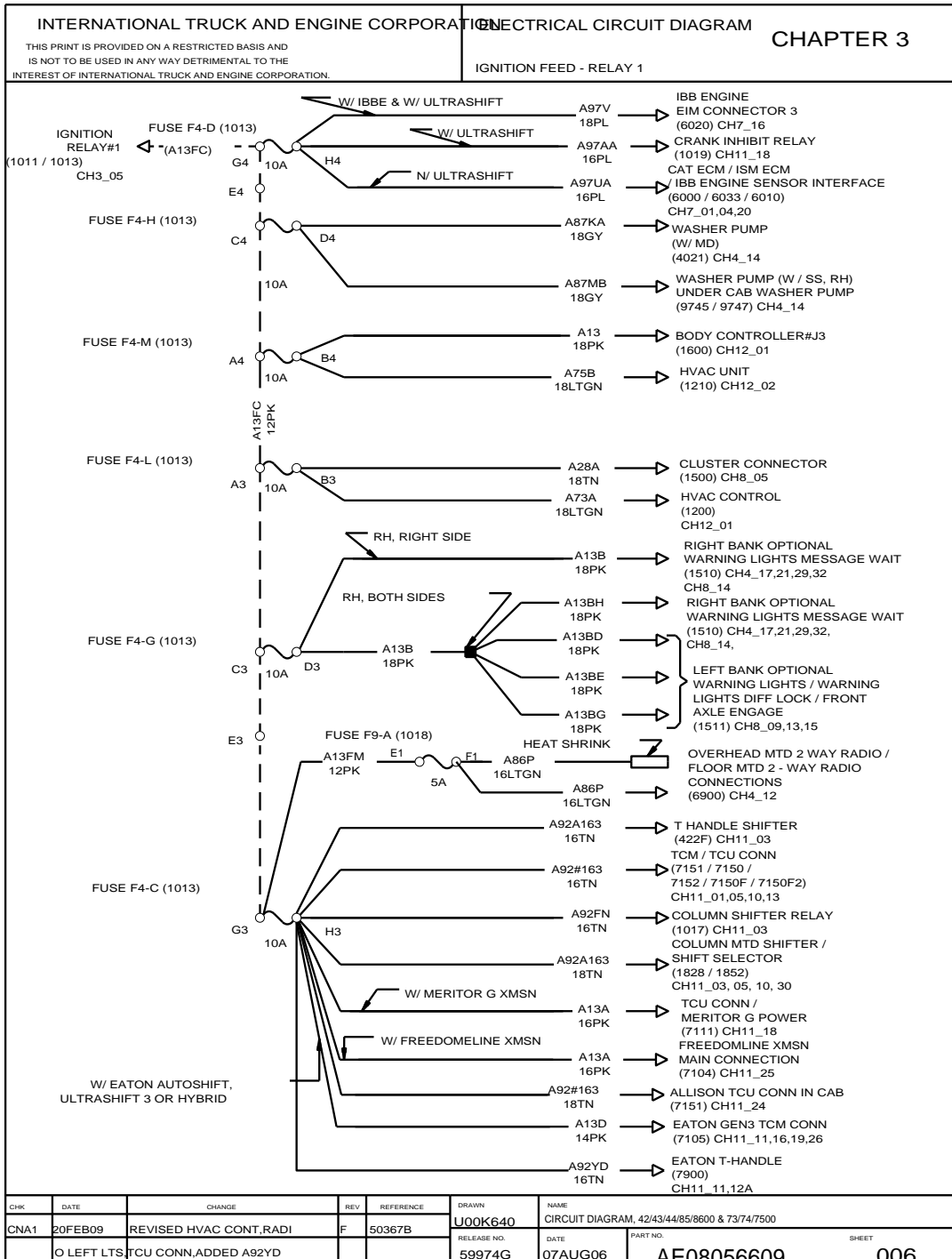
3.5. IGNITION FEED — STANDARD, THEFT DETERRENT, REMOTE START/STOP, P. 5



**12 VOLT POWER DISTRIBUTION, GROUNDS, DATA BUS AND ELECTRICAL SYSTEM CONTROLLER
(CHAPTER 3)**

IGNITION FEED RELAY 1, P. 6

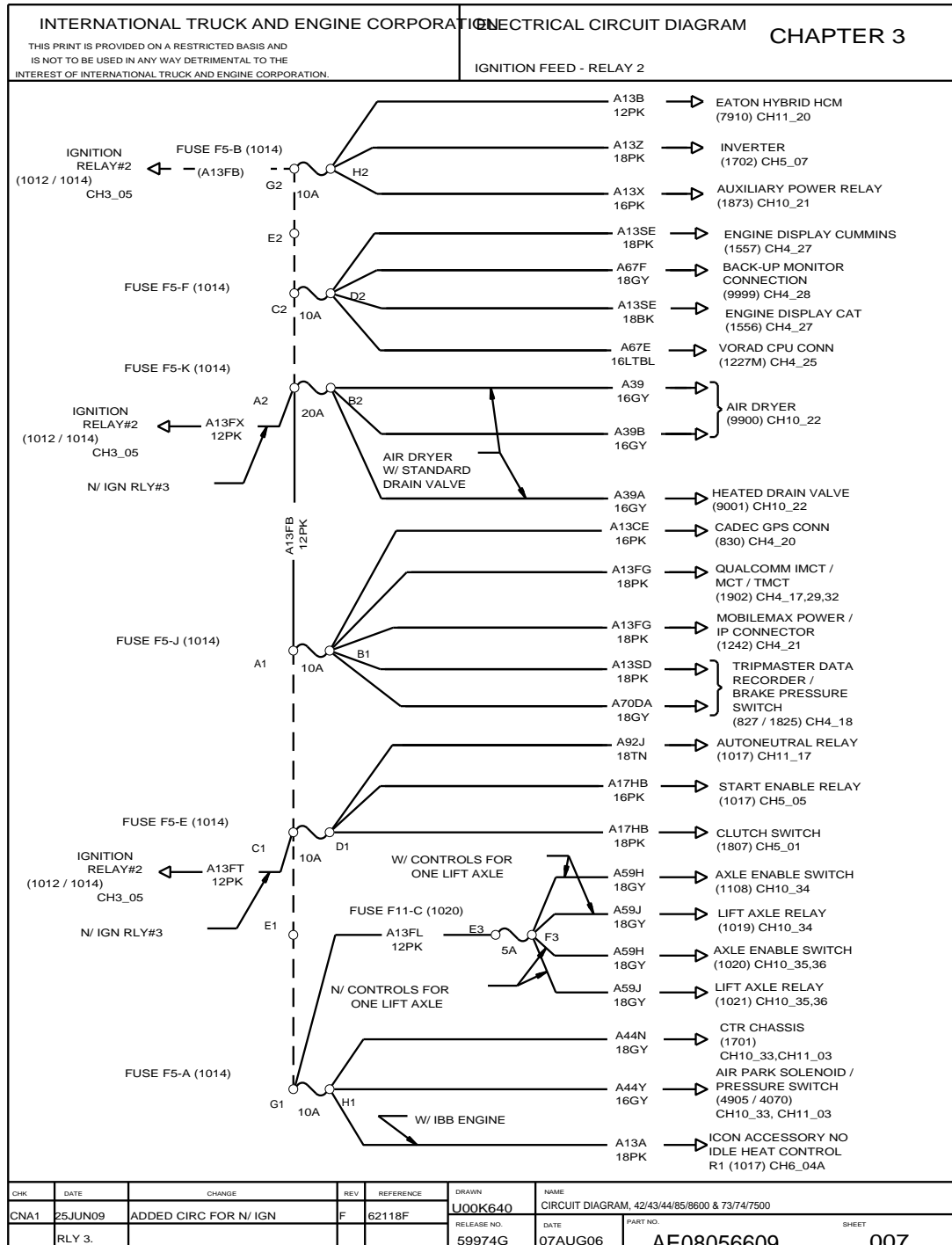
3.6. IGNITION FEED RELAY 1, P. 6



IGNITION FEED RELAY 2, P. 7
DATA BUS AND ELECTRICAL SYSTEM CONTROLLER (CHAPTER 3)

12 VOLT POWER DISTRIBUTION, GROUNDS,

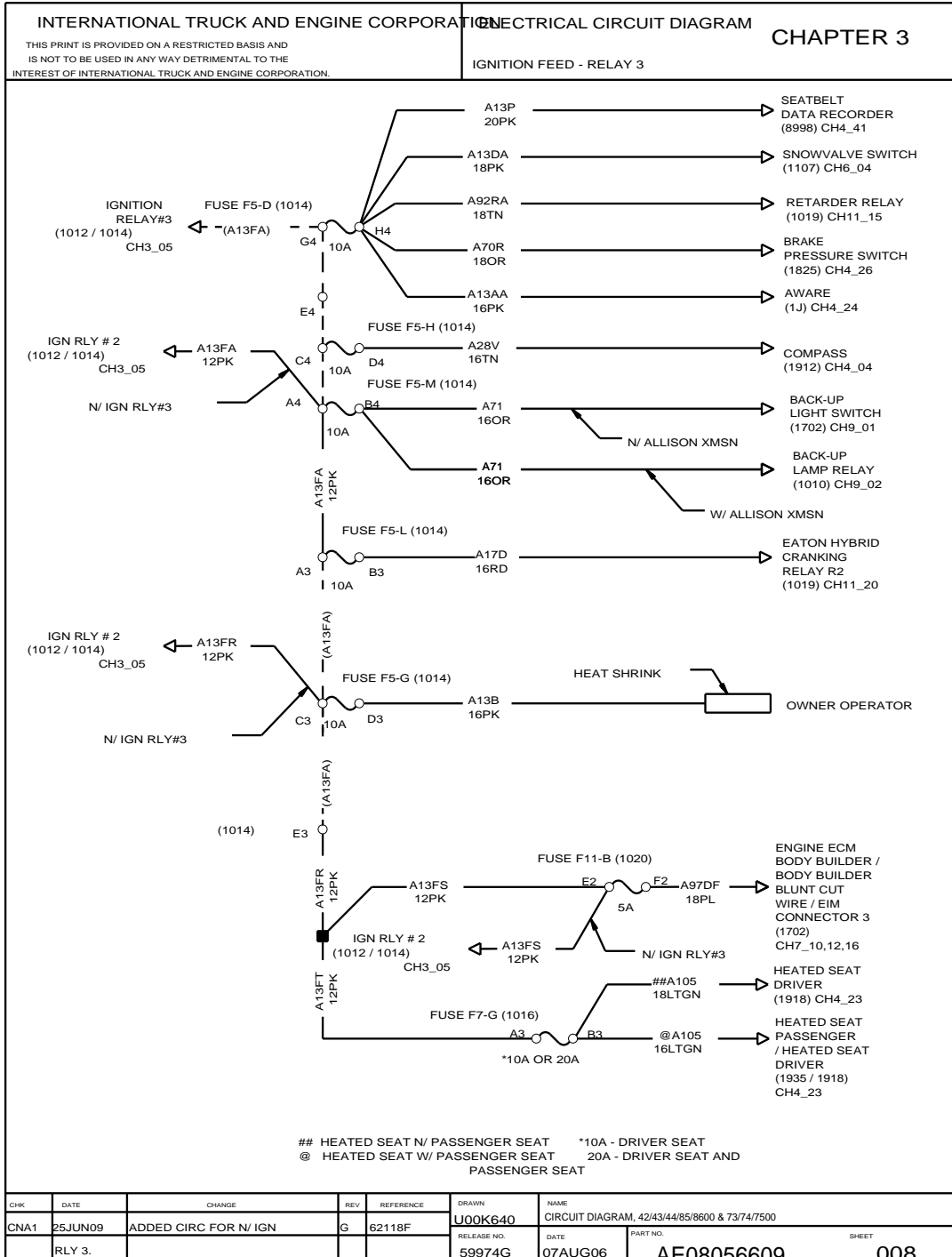
3.7. IGNITION FEED RELAY 2, P. 7



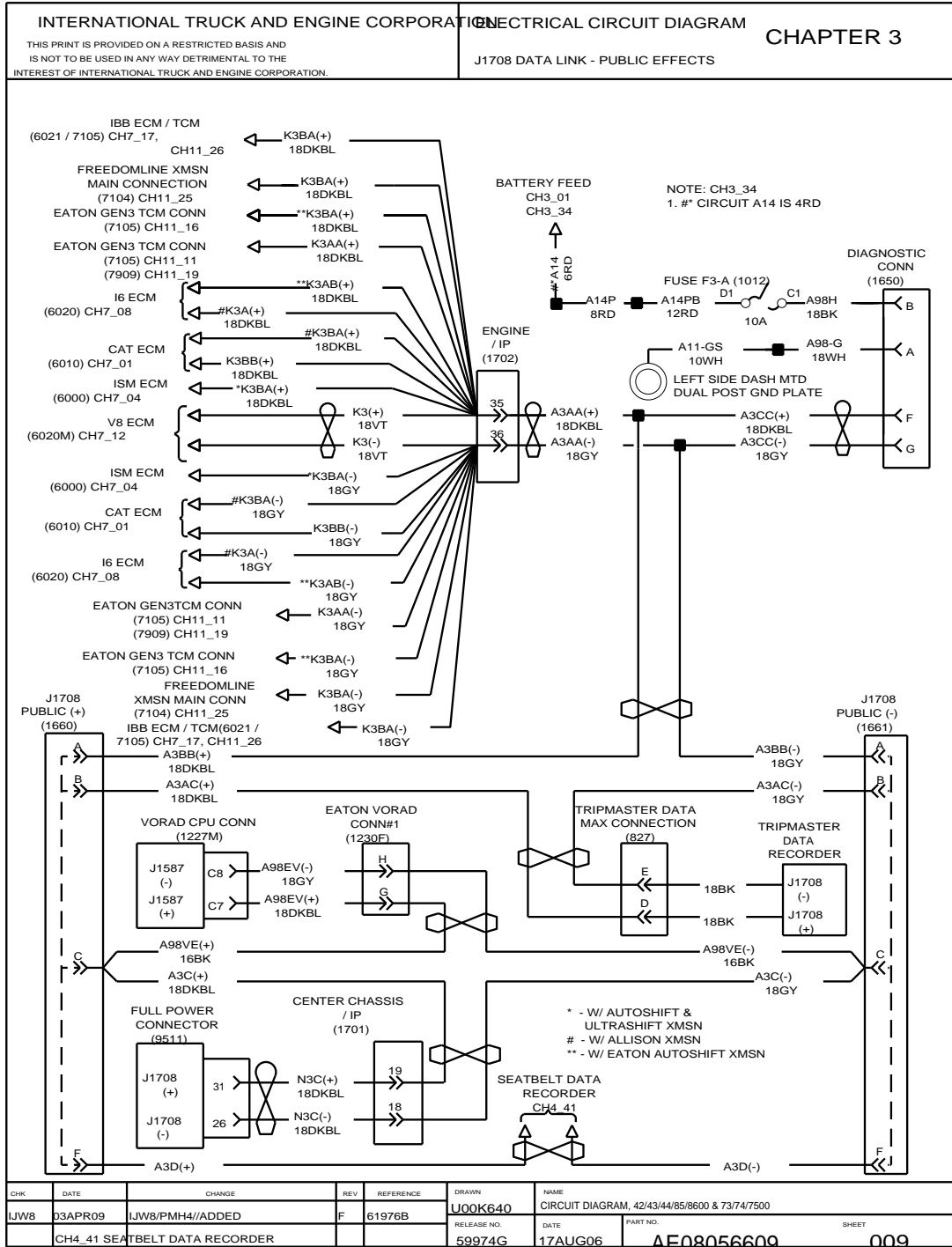
**12 VOLT POWER DISTRIBUTION, GROUNDS, DATA BUS AND ELECTRICAL SYSTEM CONTROLLER
(CHAPTER 3)**

IGNITION FEED RELAY 3, P. 8

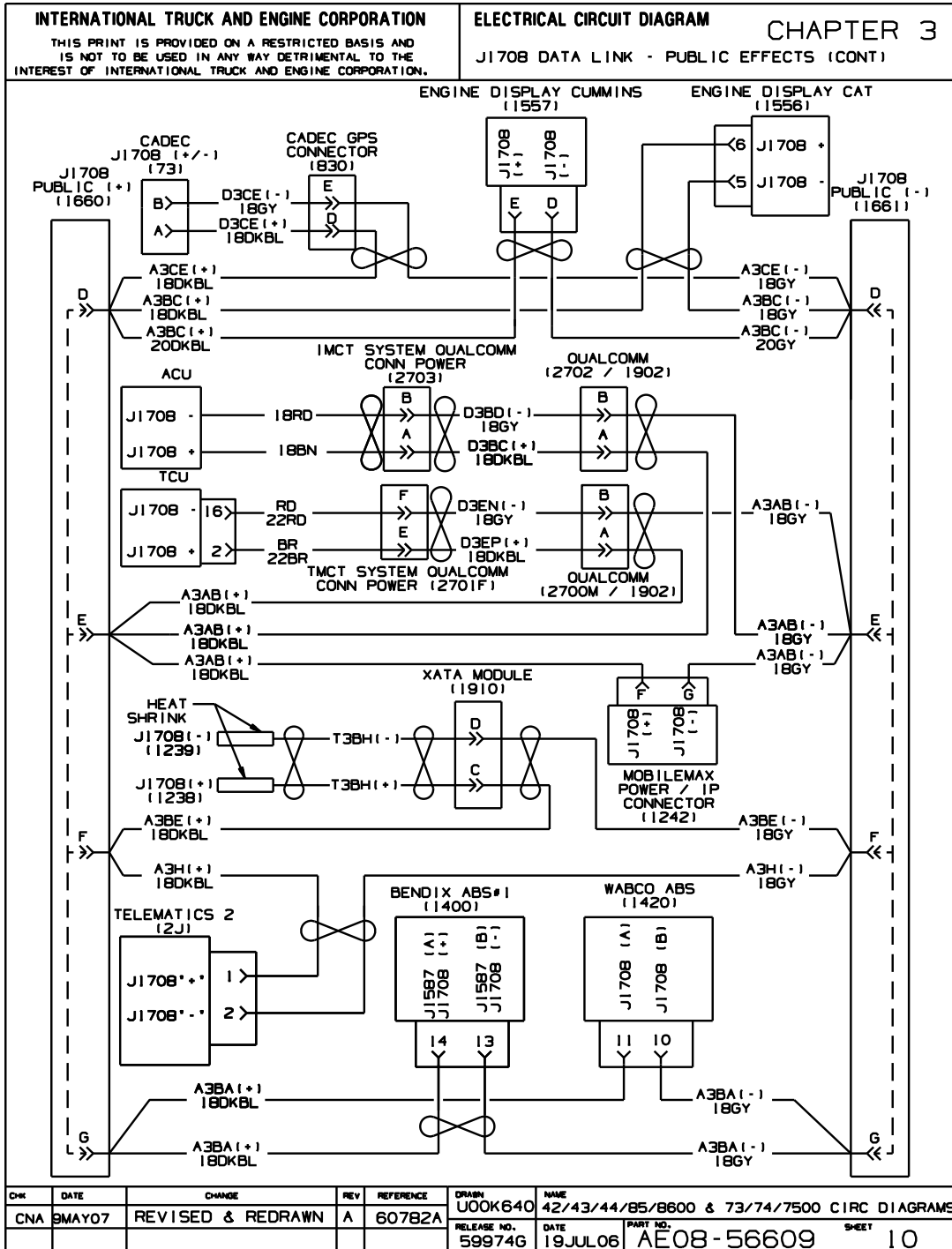
3.8. IGNITION FEED RELAY 3, P. 8



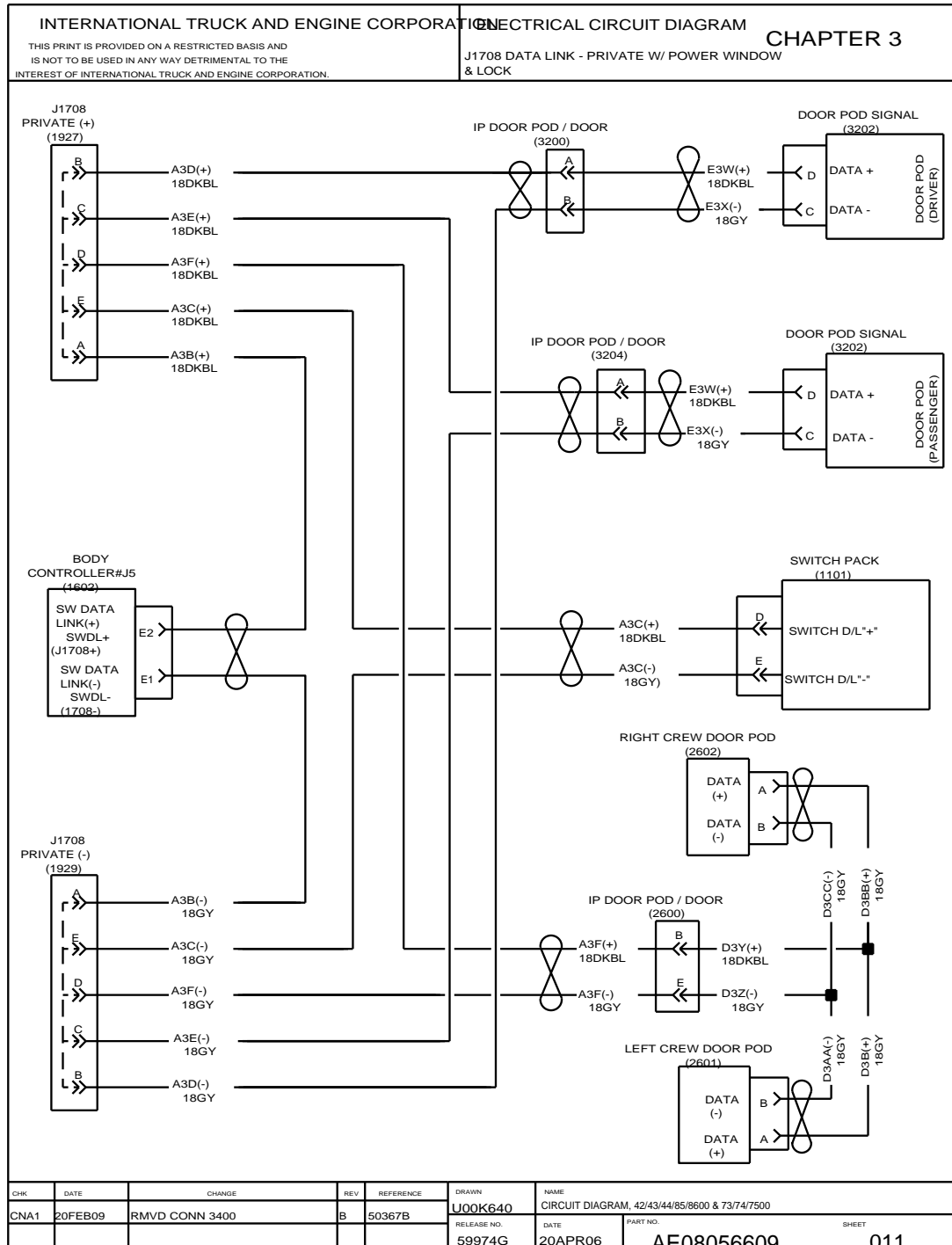
3.9. J1708 DATA LINK — PUBLIC EFFECTS, P. 9



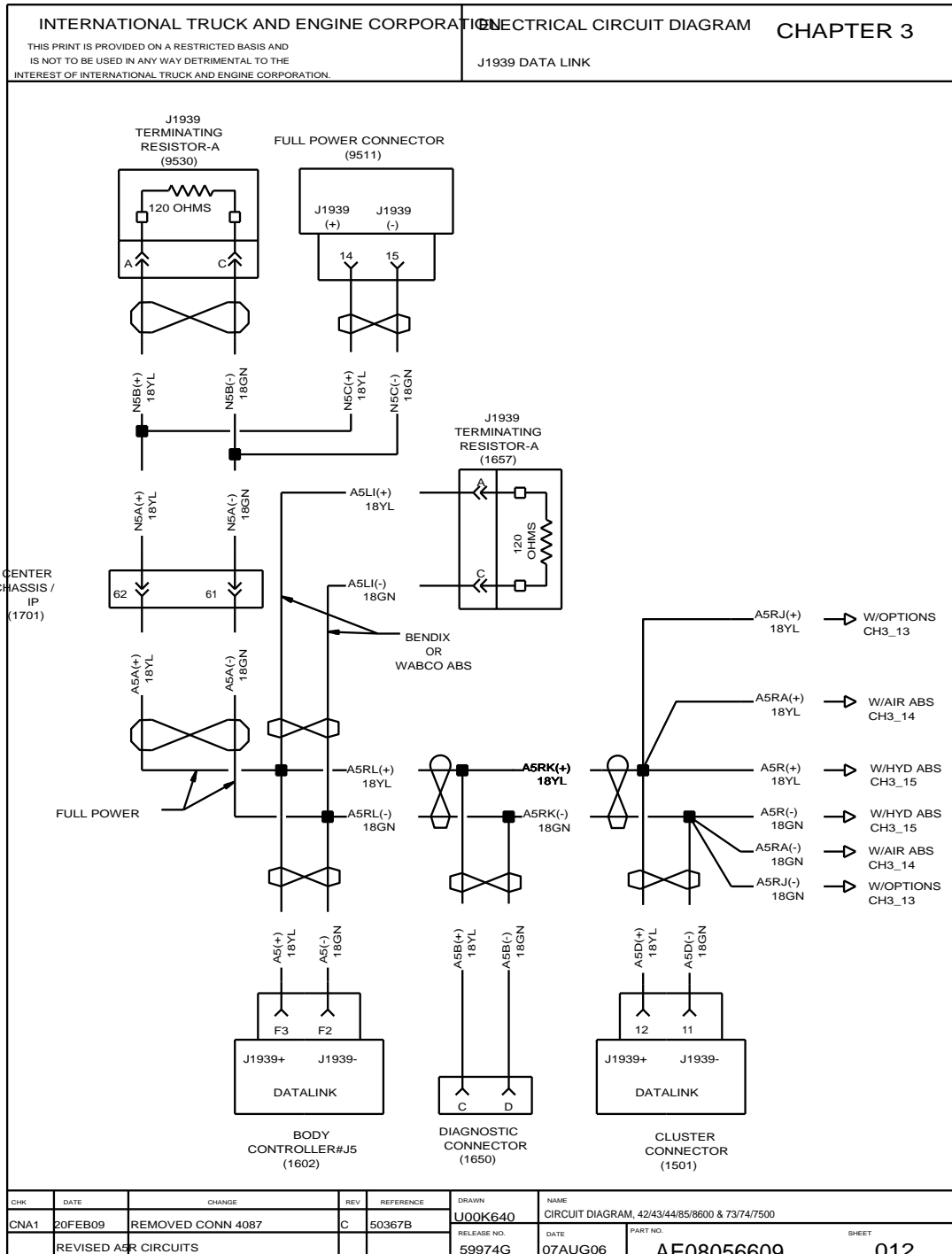
3.10. J1708 DATA LINK — PUBLIC EFFECTS, P. 10



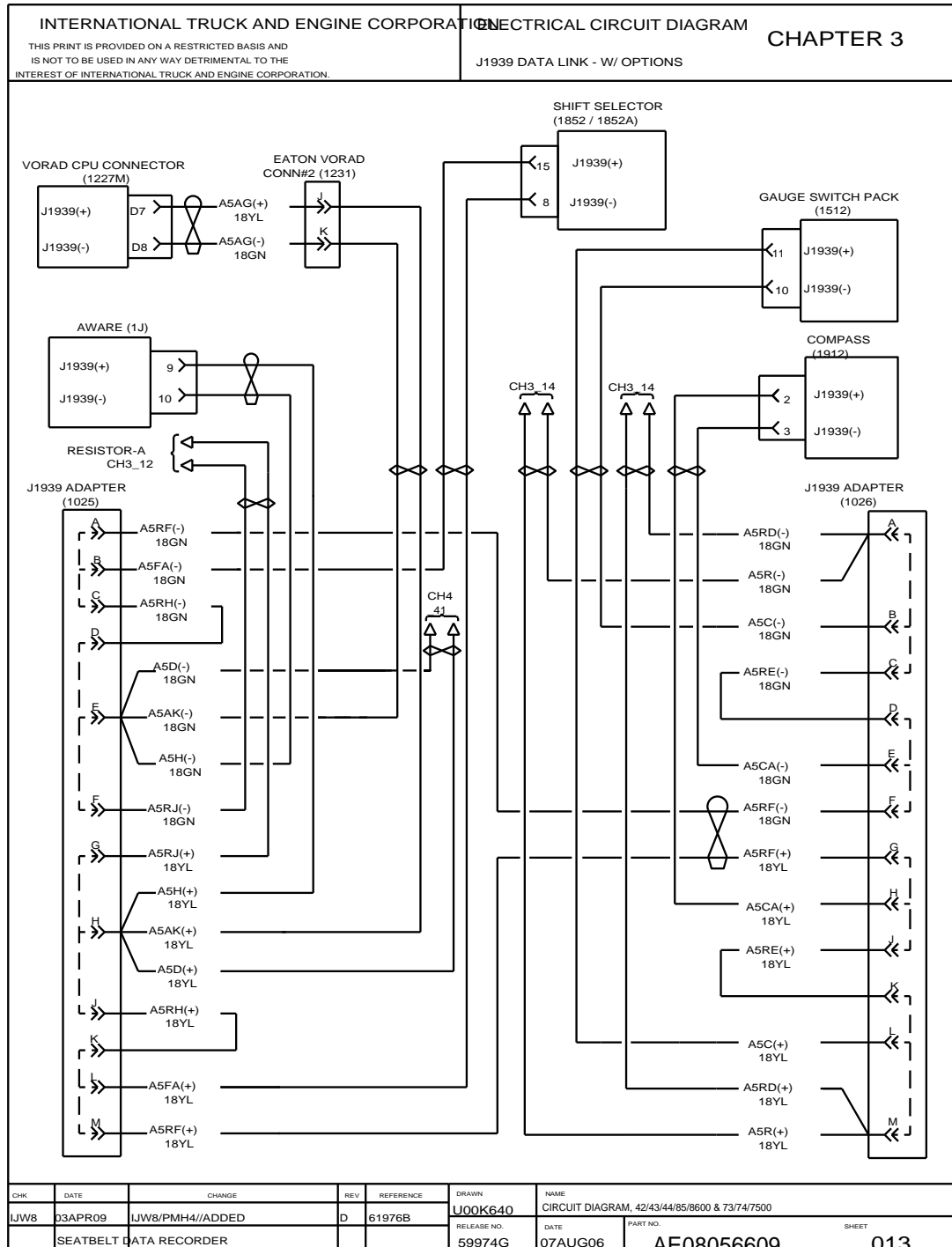
3.11. J1708 DATA LINK — PRIVATE WITH POWER WINDOW AND LOCK, P. 11



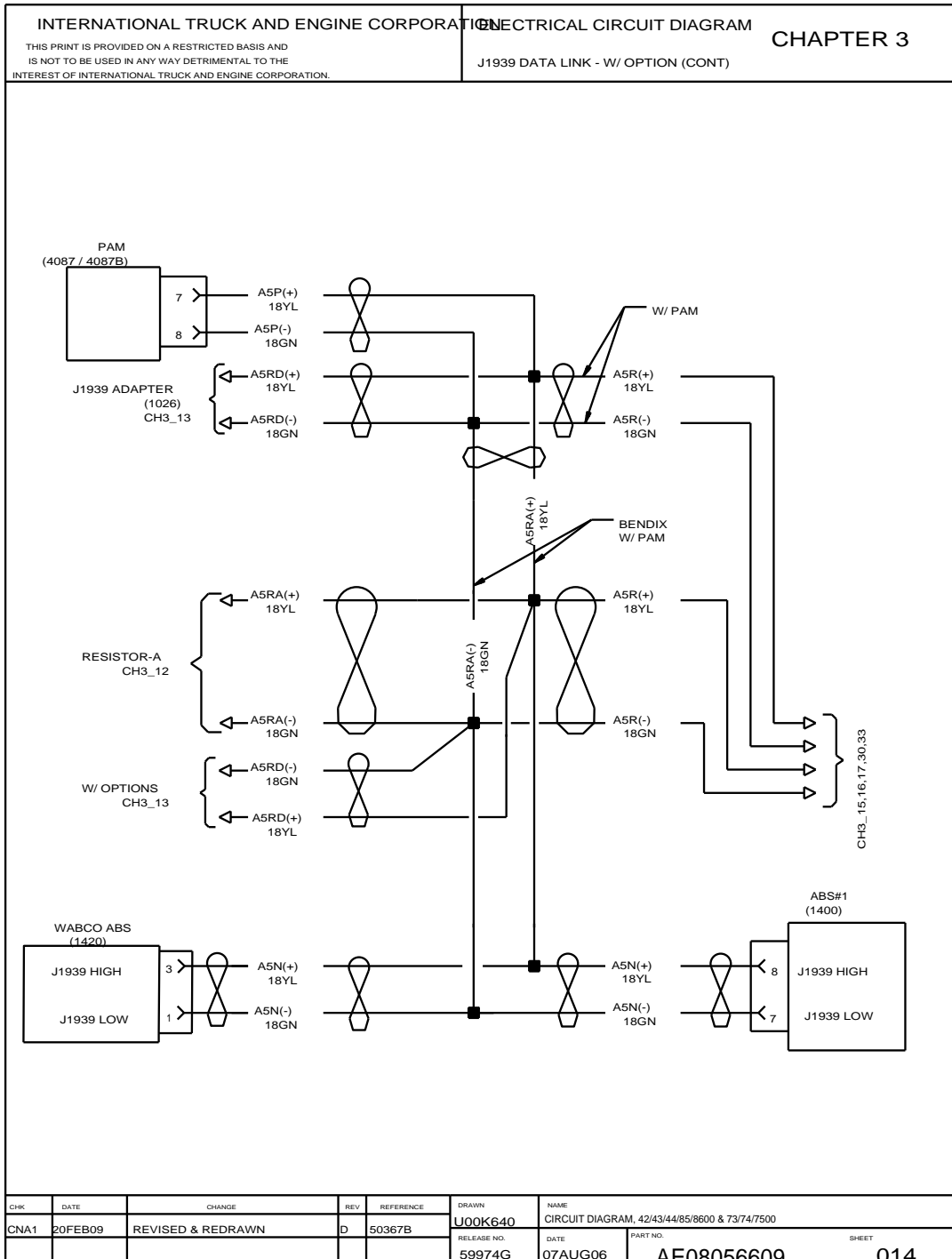
3.12. J1939 DATA LINK, P. 12



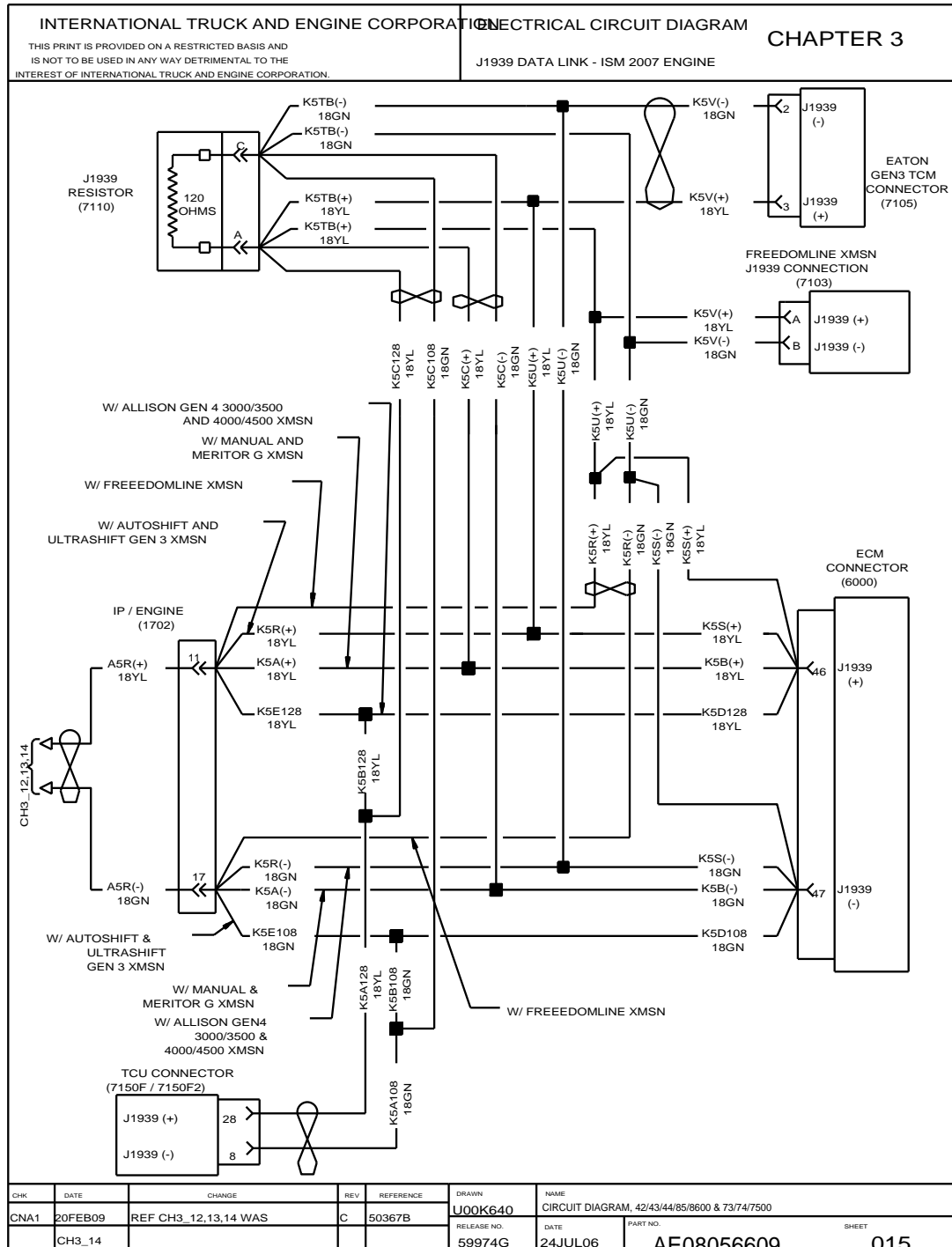
3.13. J1939 DATA LINK WITH OPTIONS, P. 13



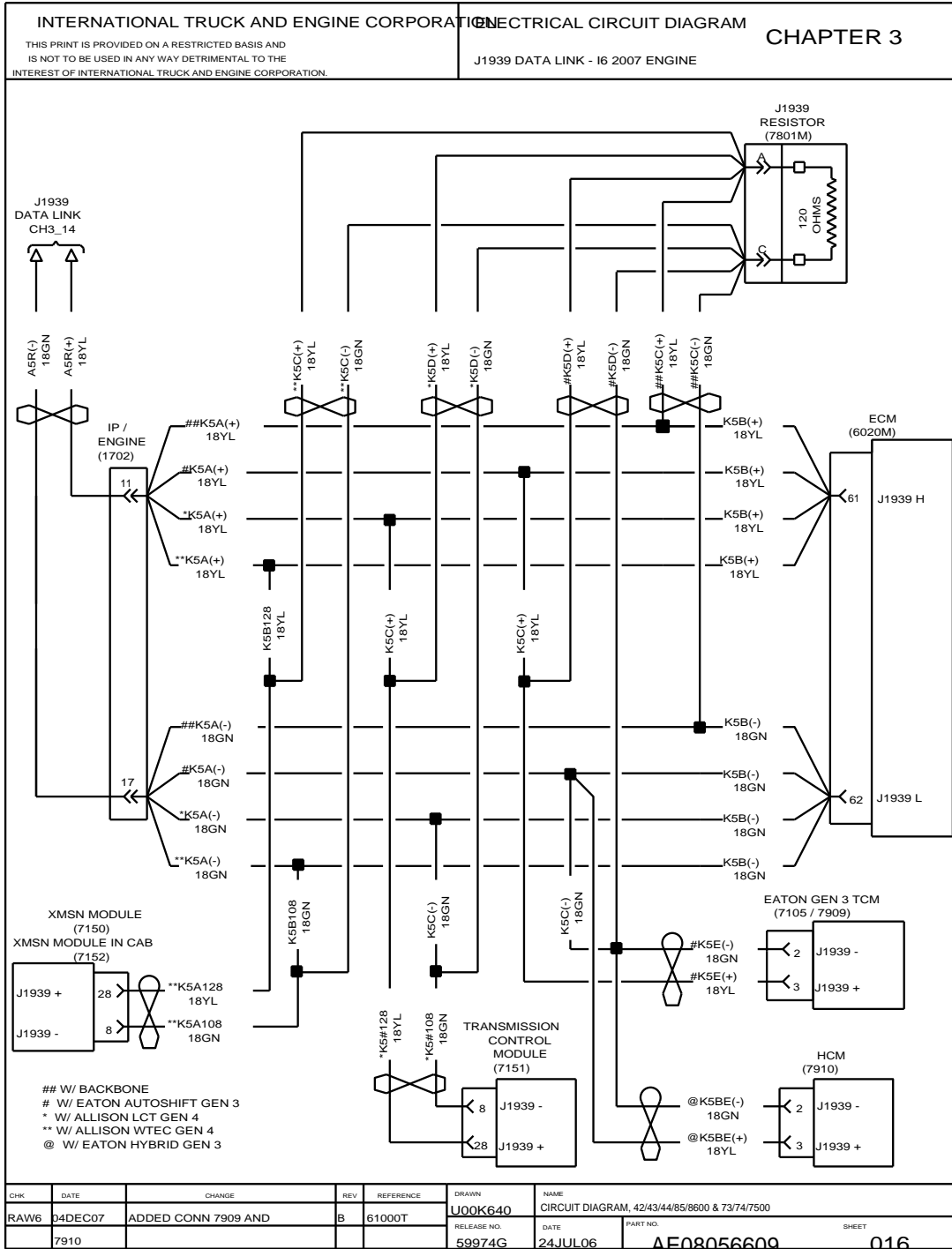
3.14. J1939 DATA LINK WITH OPTIONS, P. 14



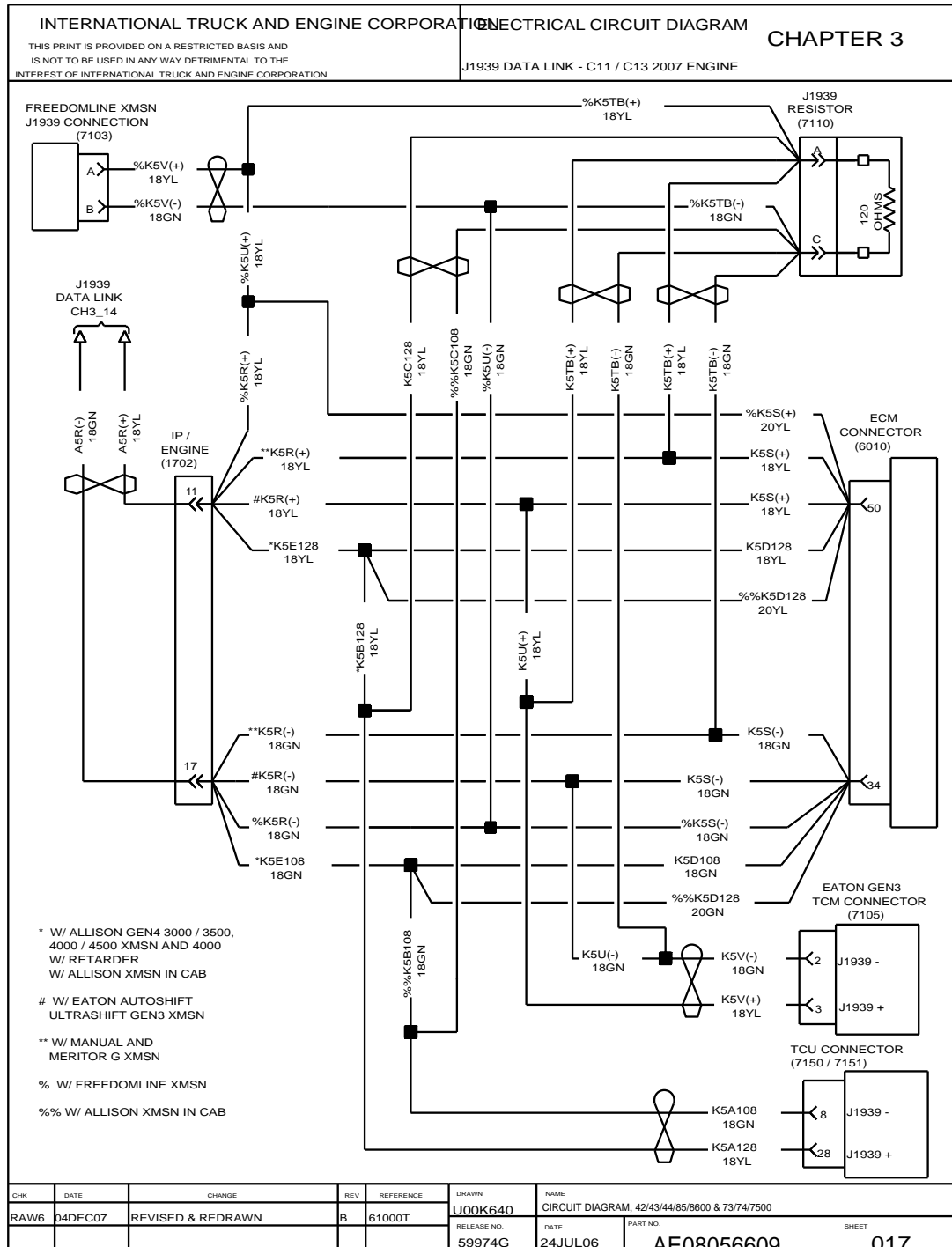
3.15. J1939 DATA LINK — ISM 2007 ENGINE, P. 15



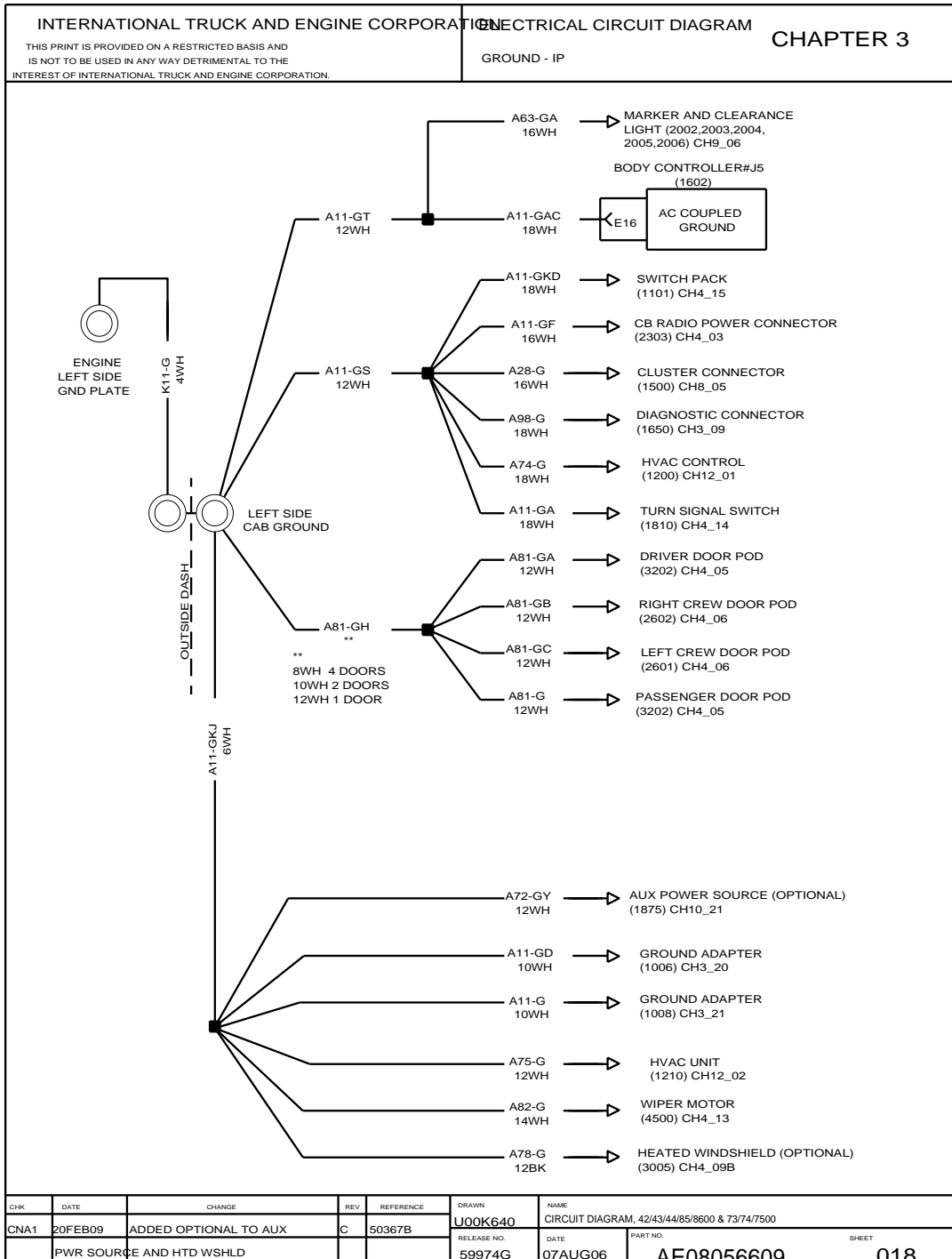
3.16. J1939 DATA LINK — I6 2007 ENGINE, P. 16



3.17. J1939 DATA LINK — C11/C13 2007 ENGINE, P. 17



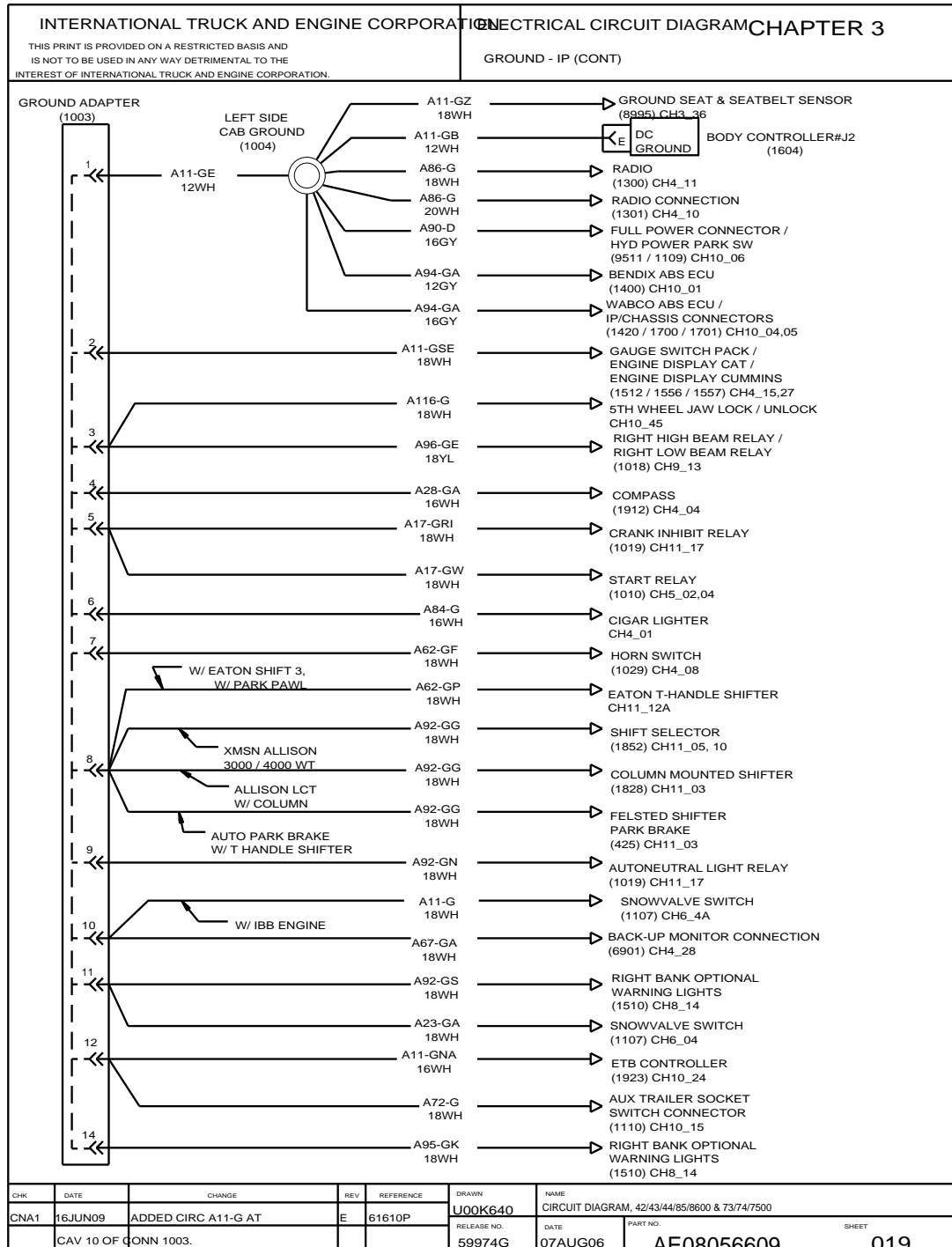
3.18. GROUND — IP, P. 18



GROUND — IP, P. 19
DATA BUS AND ELECTRICAL SYSTEM CONTROLLER (CHAPTER 3)

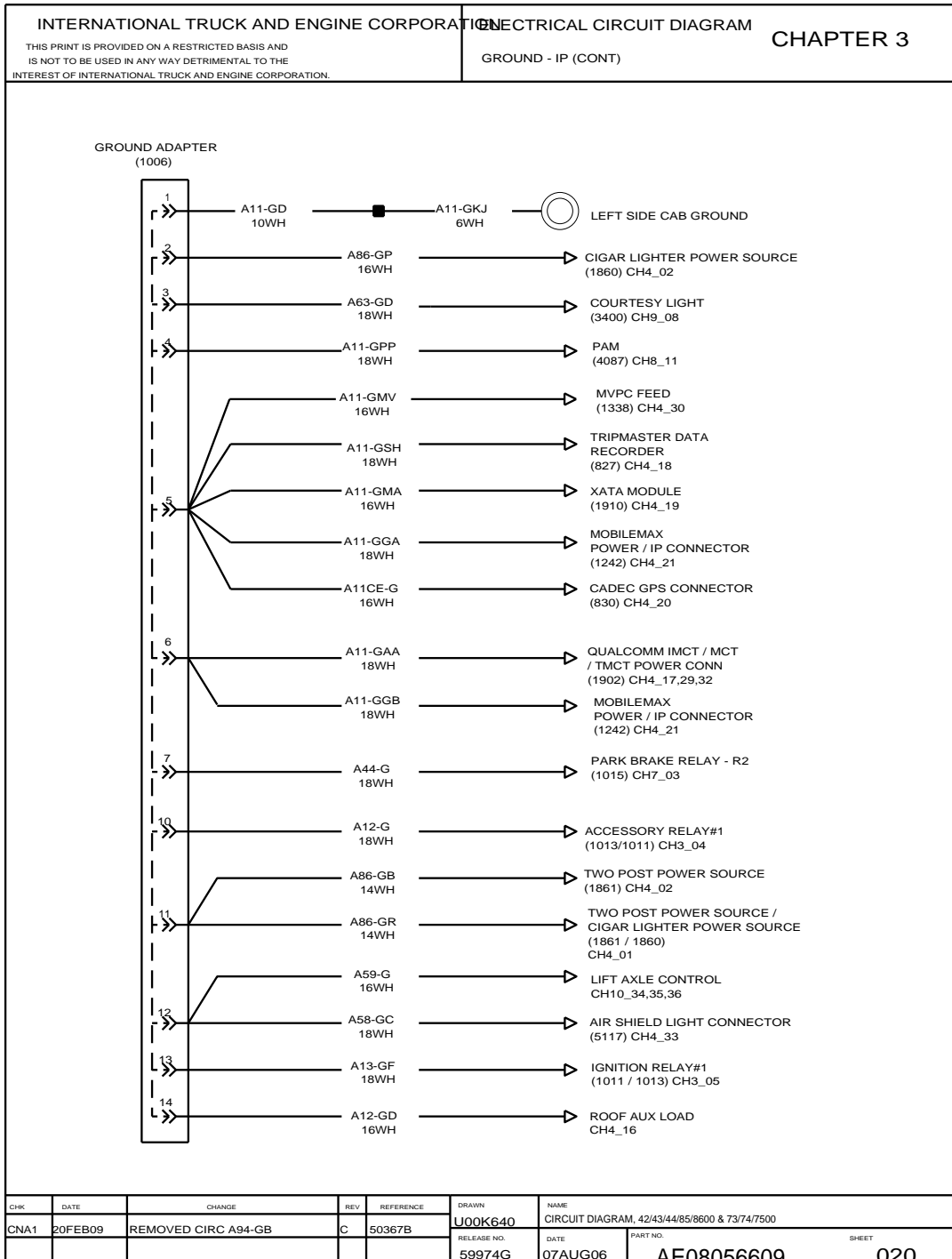
12 VOLT POWER DISTRIBUTION, GROUNDS,

3.19. GROUND — IP, P. 19

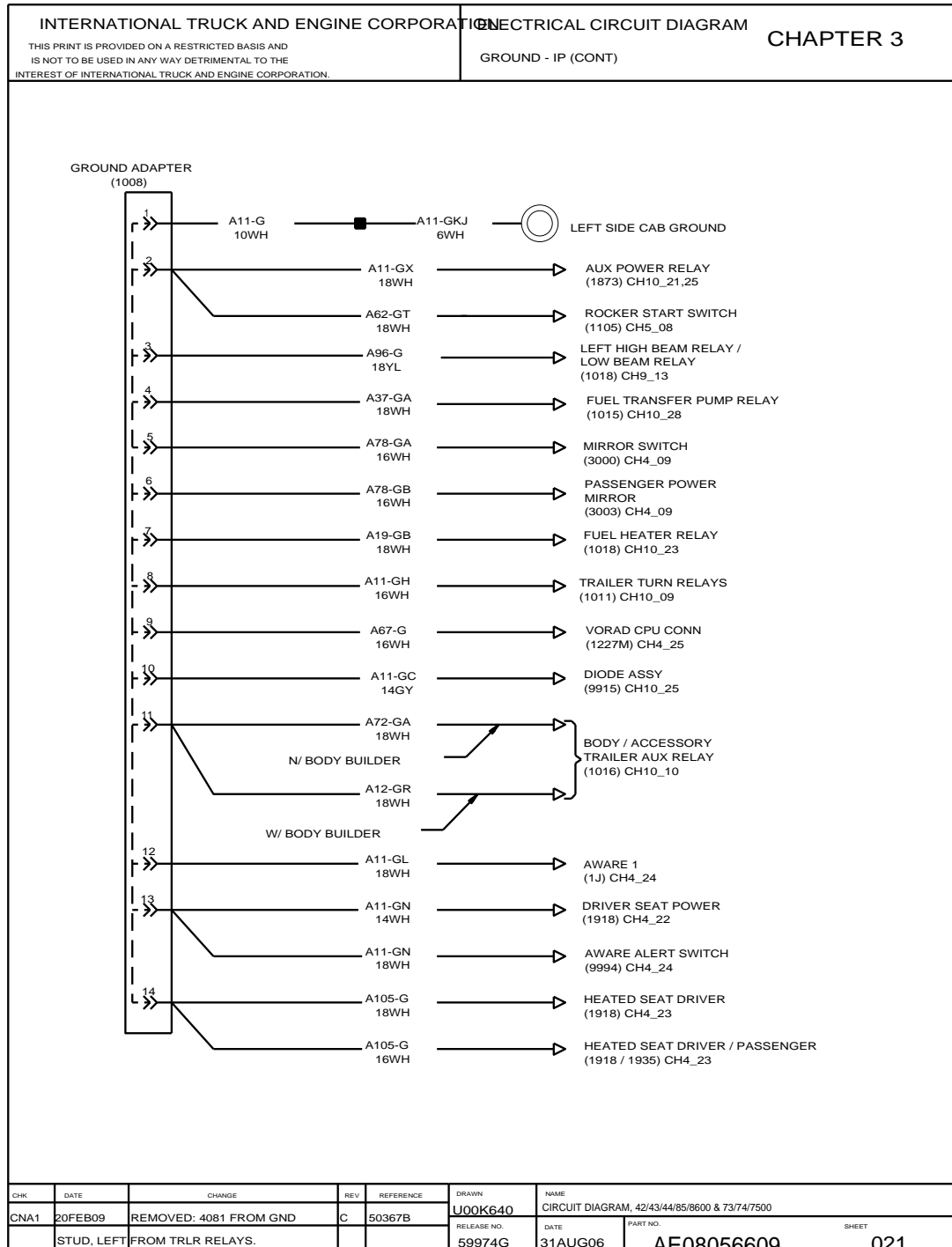


12 VOLT POWER DISTRIBUTION, GROUNDS, DATA BUS AND ELECTRICAL SYSTEM CONTROLLER
(CHAPTER 3) GROUND — IP, P. 20

3.20. GROUND — IP, P. 20

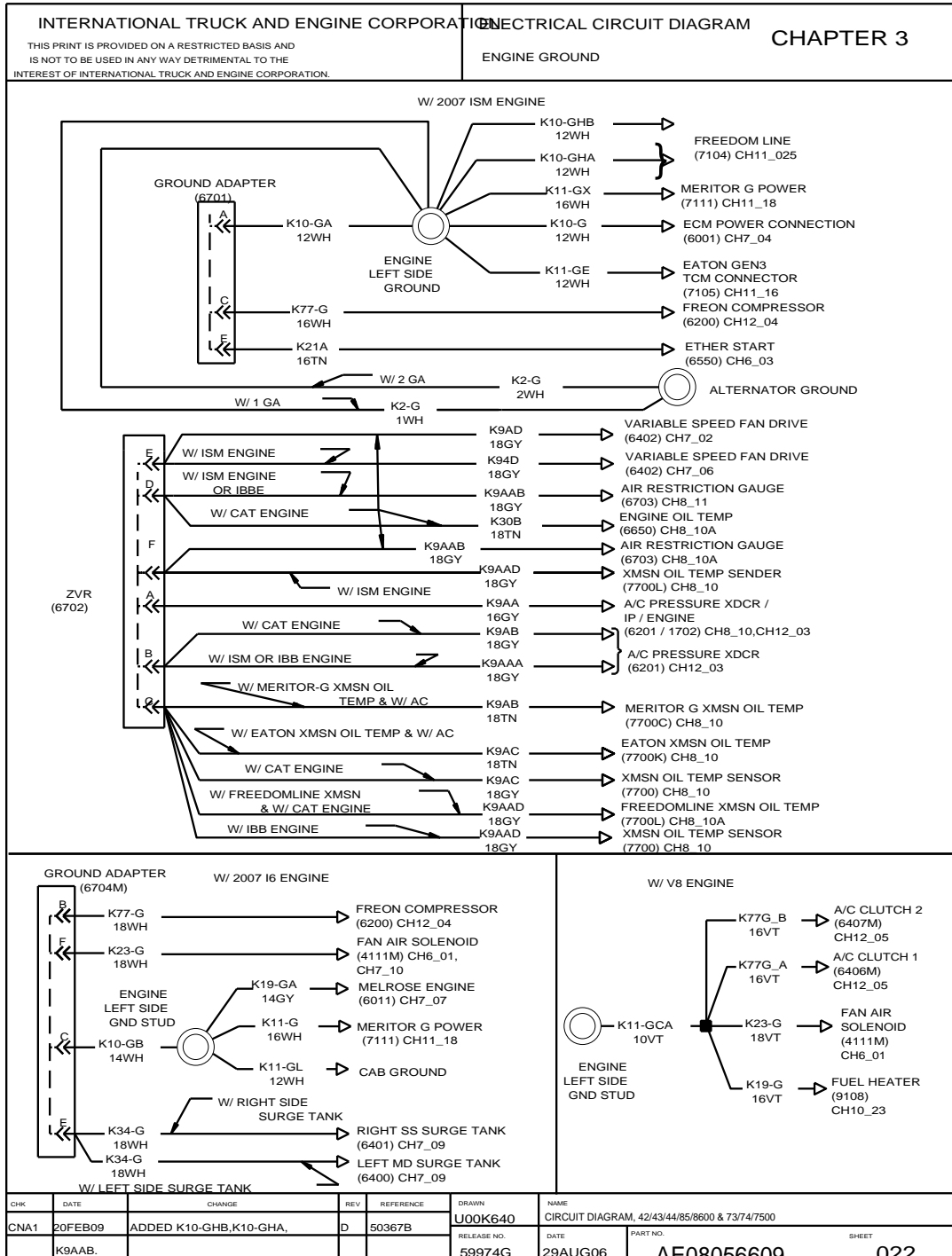


3.21. GROUND — IP, P. 21



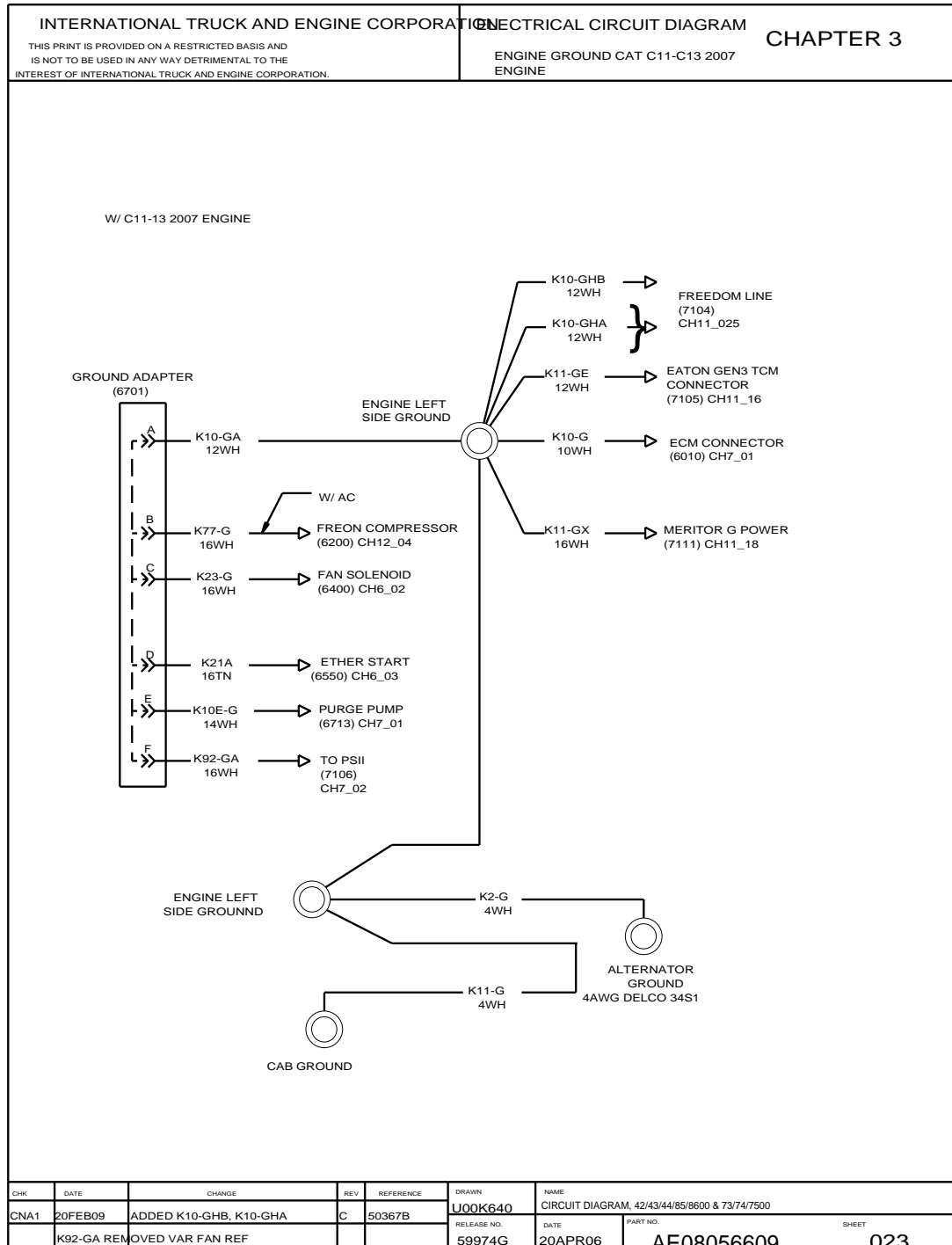
12 VOLT POWER DISTRIBUTION, GROUNDS, DATA BUS AND ELECTRICAL SYSTEM CONTROLLER
(CHAPTER 3)
ENGINE GROUND, P. 22

3.22. ENGINE GROUND, P. 22

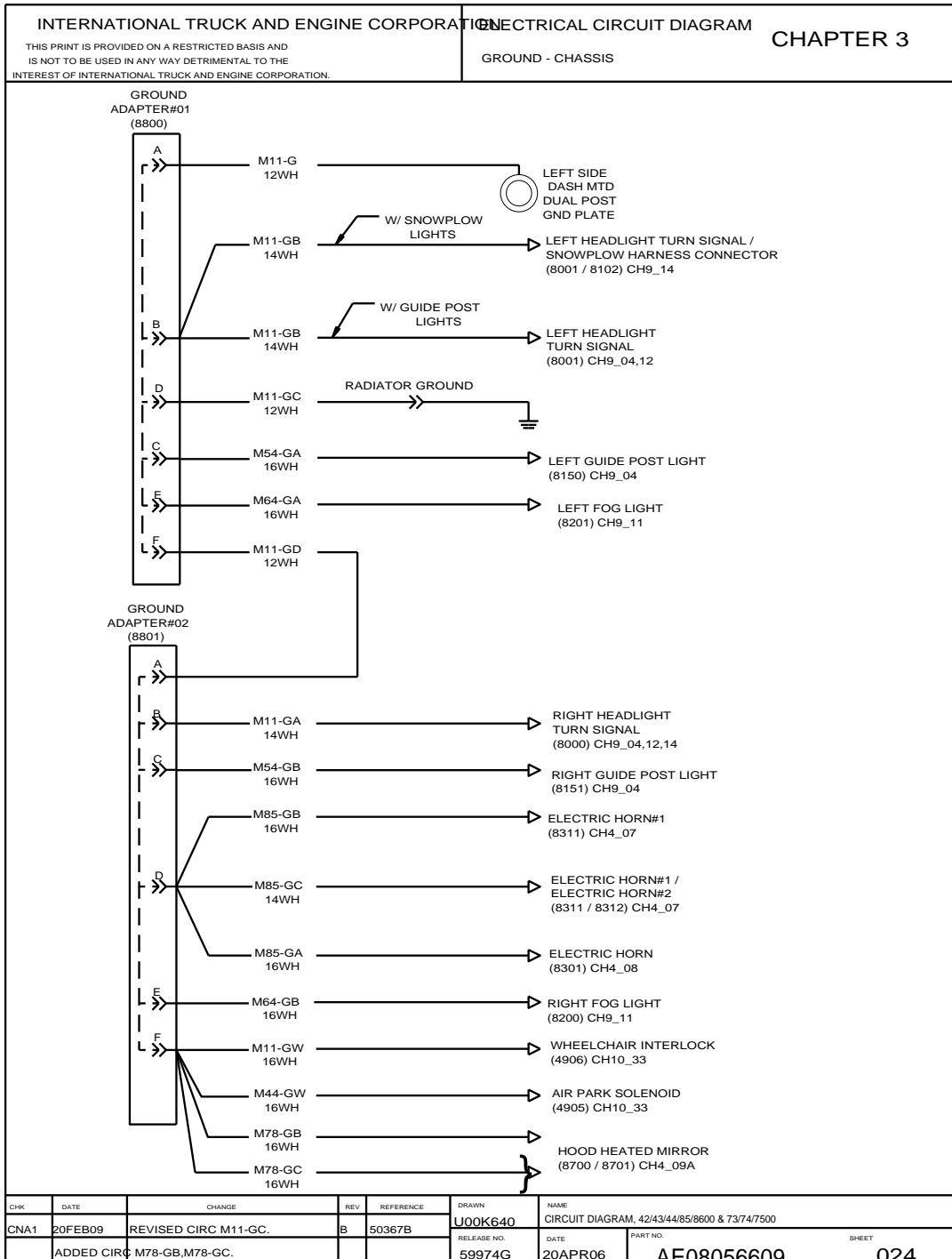


ENGINE GROUND CAT C11-C13 2007 ENGINE, P. 23 12 VOLT POWER DISTRIBUTION, GROUNDS, DATA BUS AND ELECTRICAL SYSTEM CONTROLLER (CHAPTER 3)

3.23. ENGINE GROUND CAT C11-C13 2007 ENGINE, P. 23

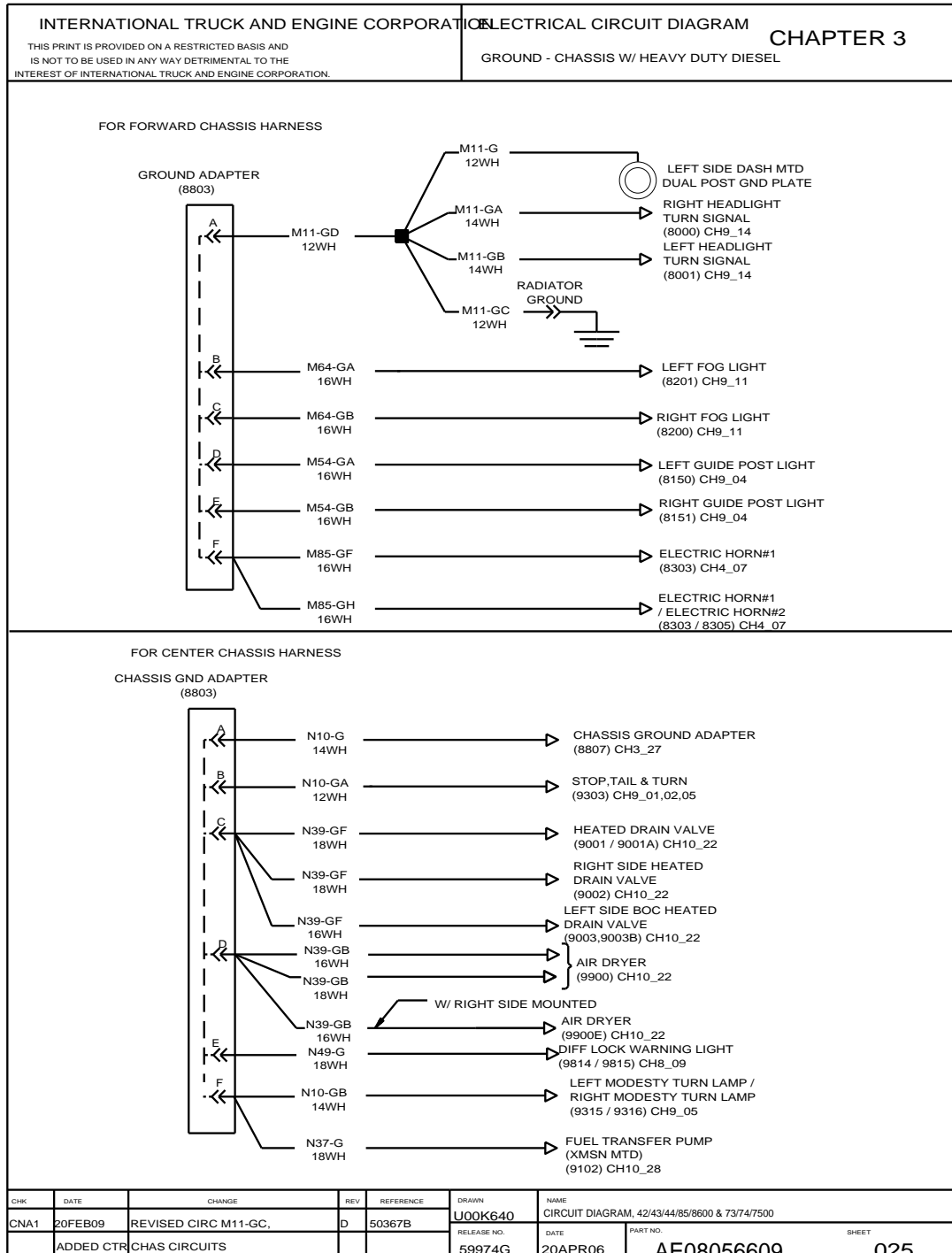


3.24. GROUND — CHASSIS, P. 24

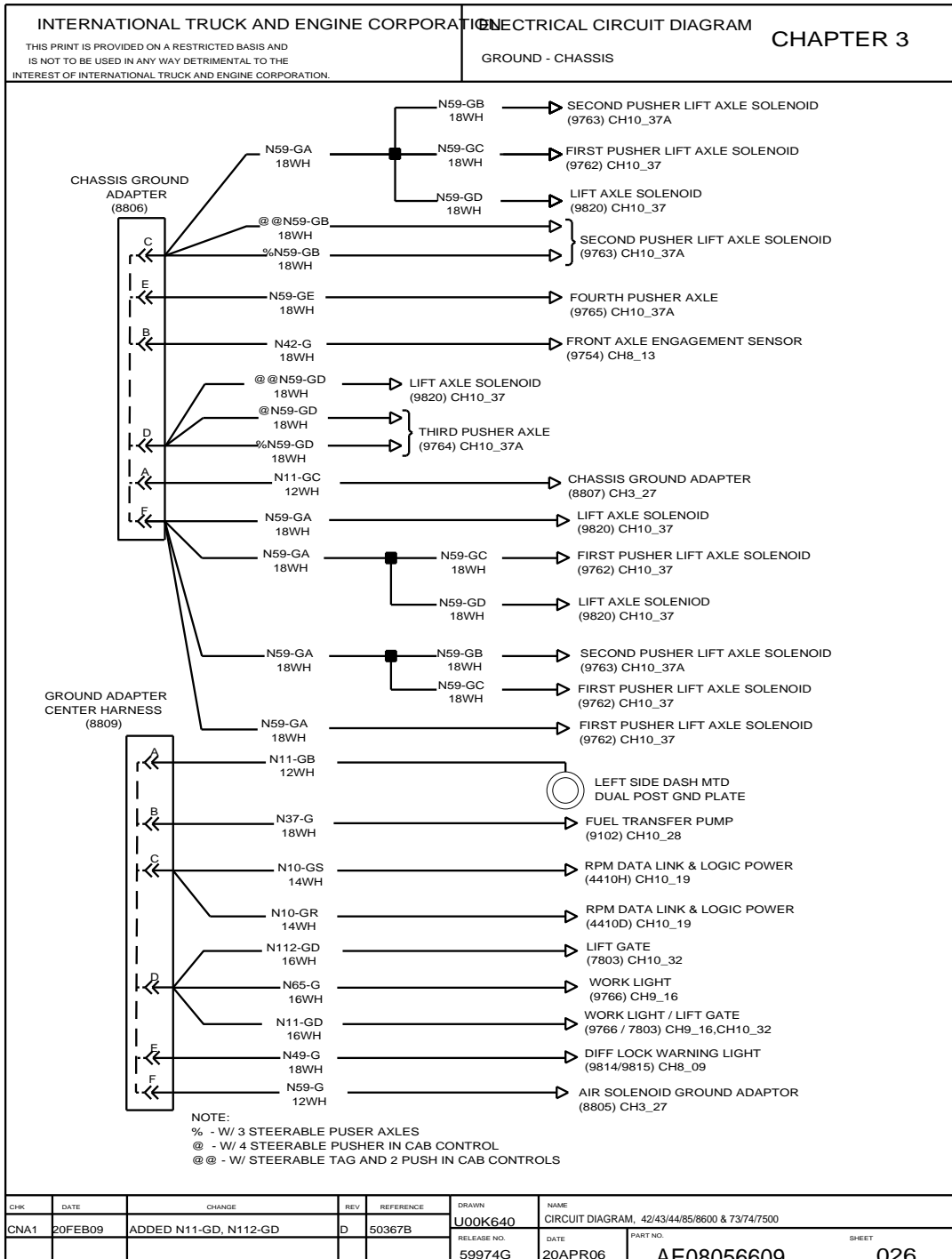


GROUND — CHASSIS WITH HEAVY DUTY DIESEL, P. 25 12 VOLT POWER DISTRIBUTION, GROUNDS, DATA BUS AND ELECTRICAL SYSTEM CONTROLLER (CHAPTER 3)

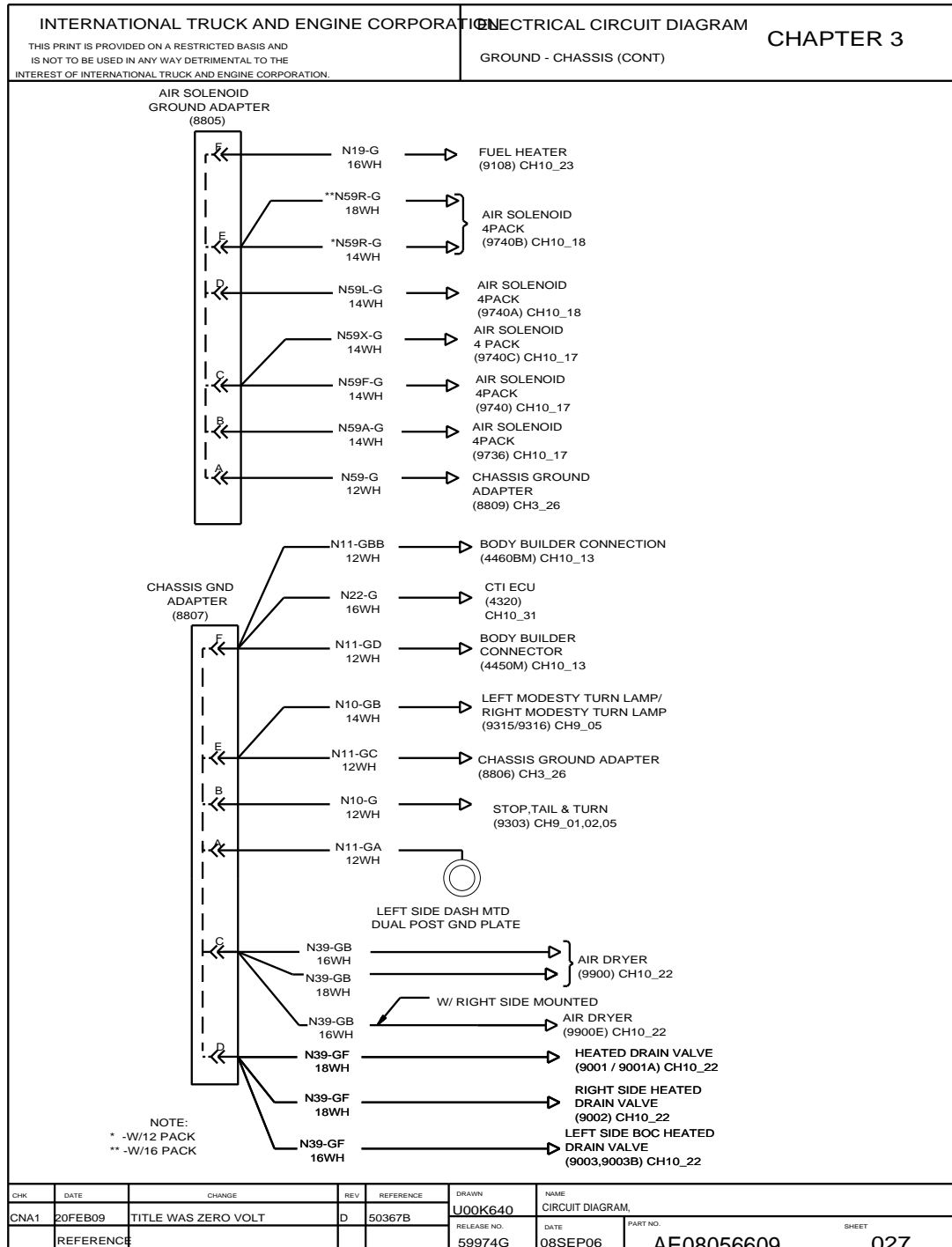
3.25. GROUND — CHASSIS WITH HEAVY DUTY DIESEL, P. 25



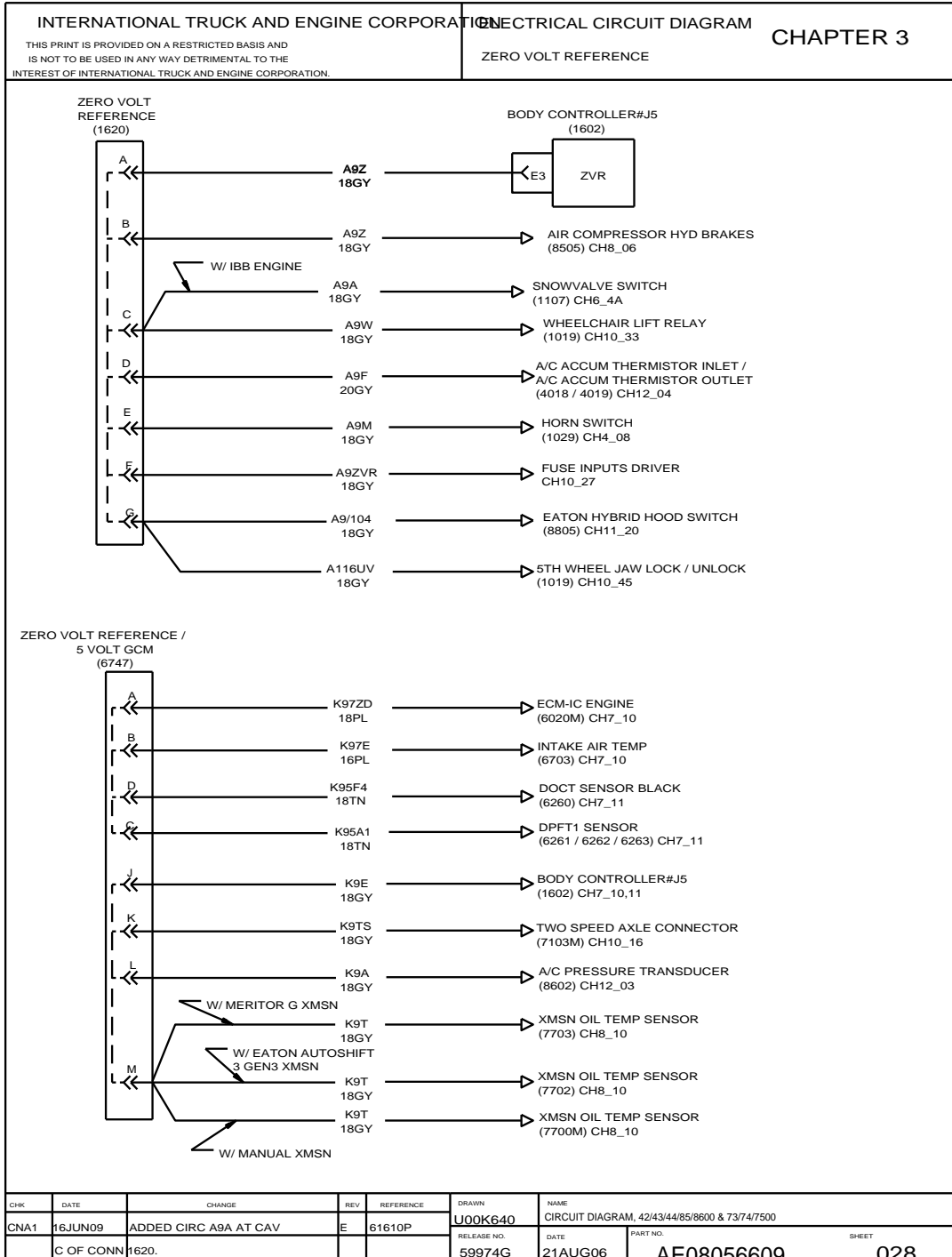
3.26. GROUND — CHASSIS, P. 26



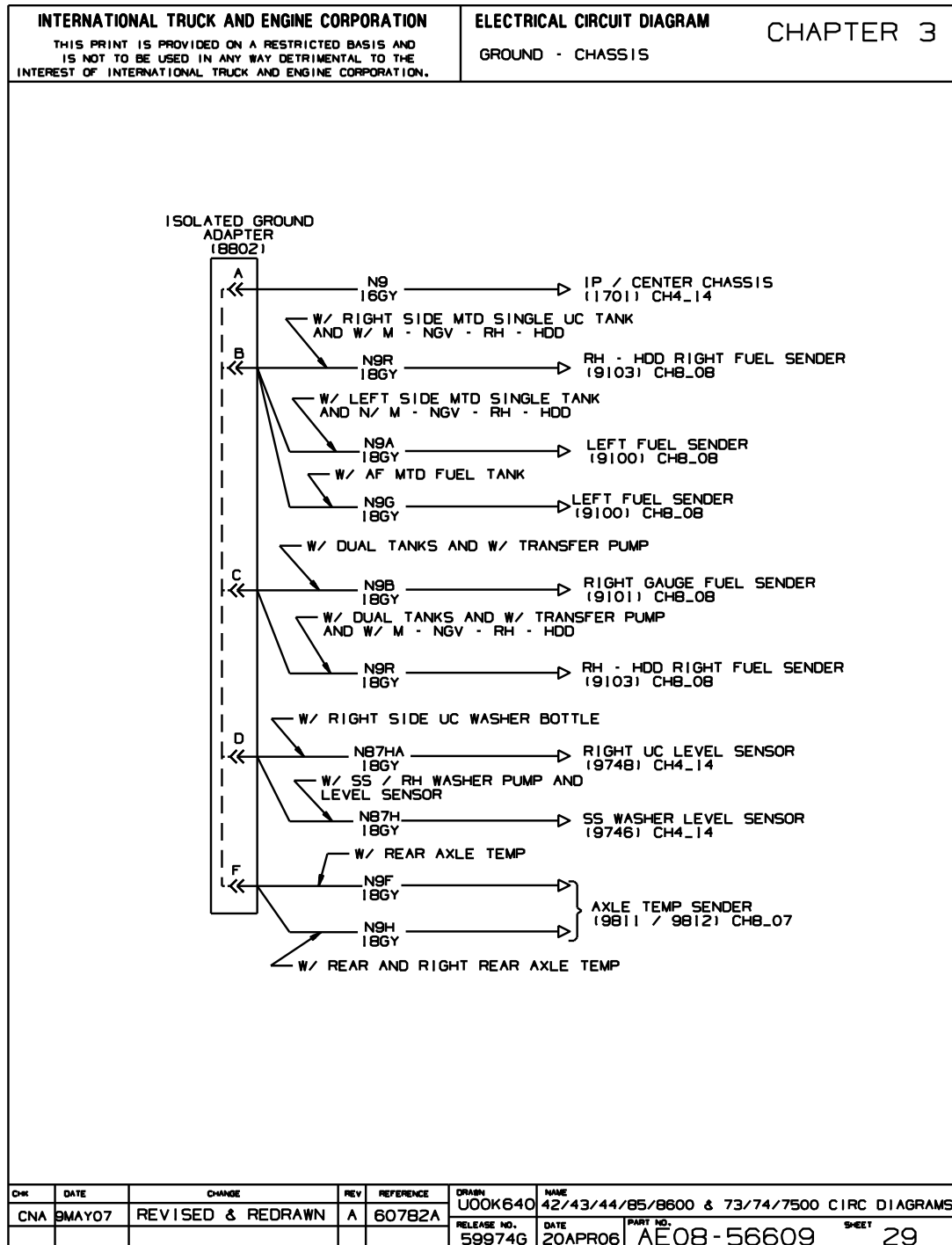
3.27. GROUND — CHASSIS, P. 27



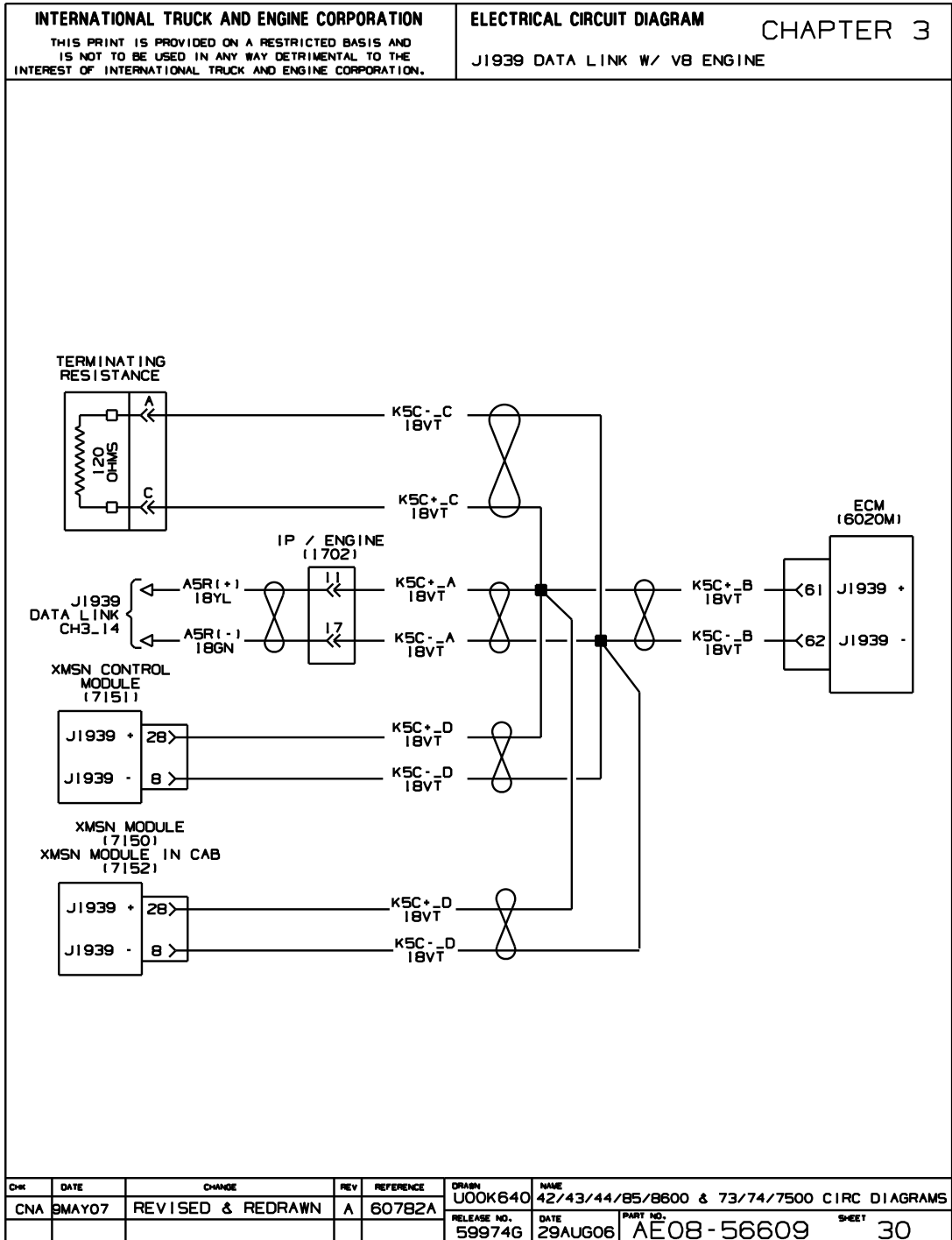
3.28. ZERO VOLT REFERENCE, P. 28



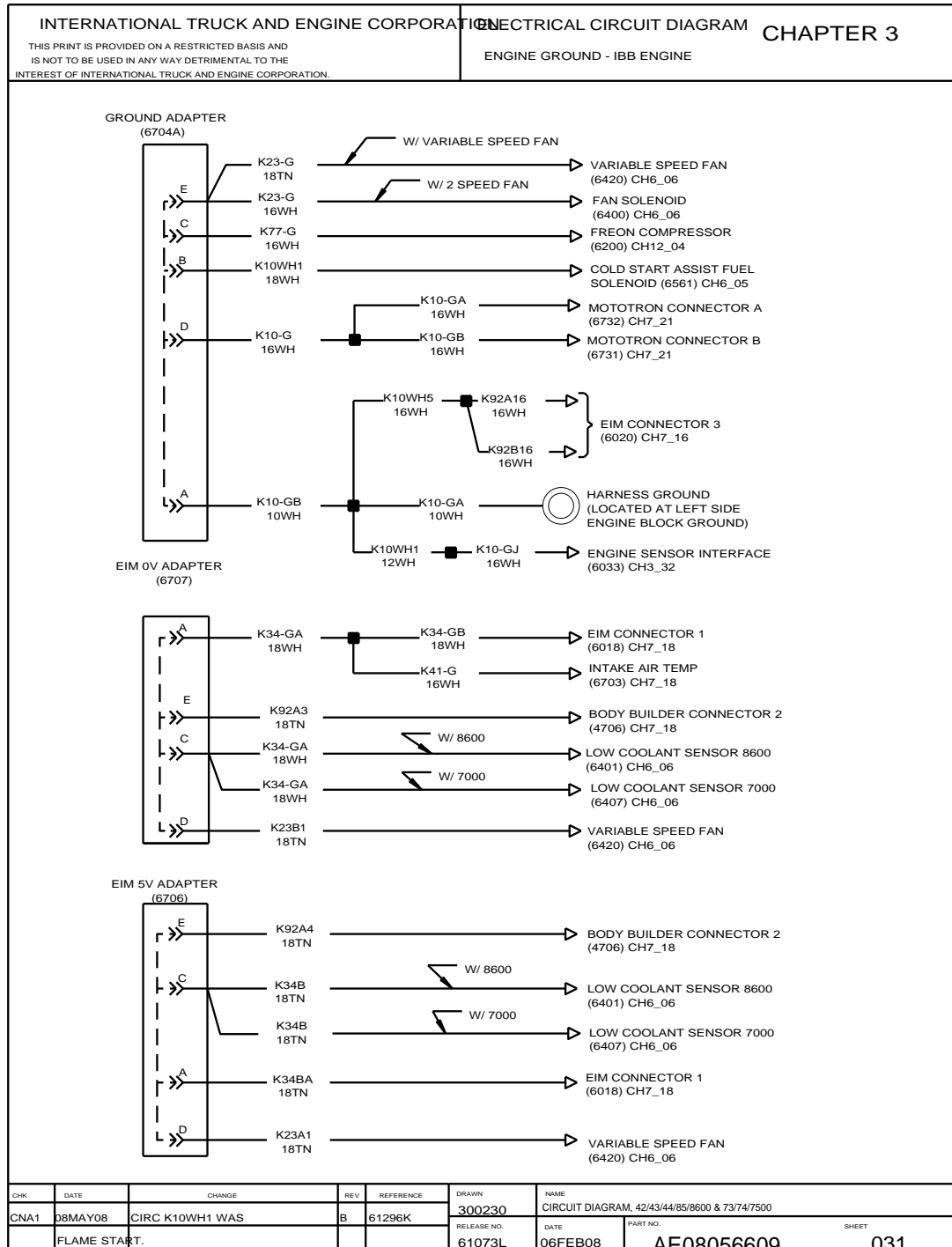
3.29. GROUND — CHASSIS, P. 29



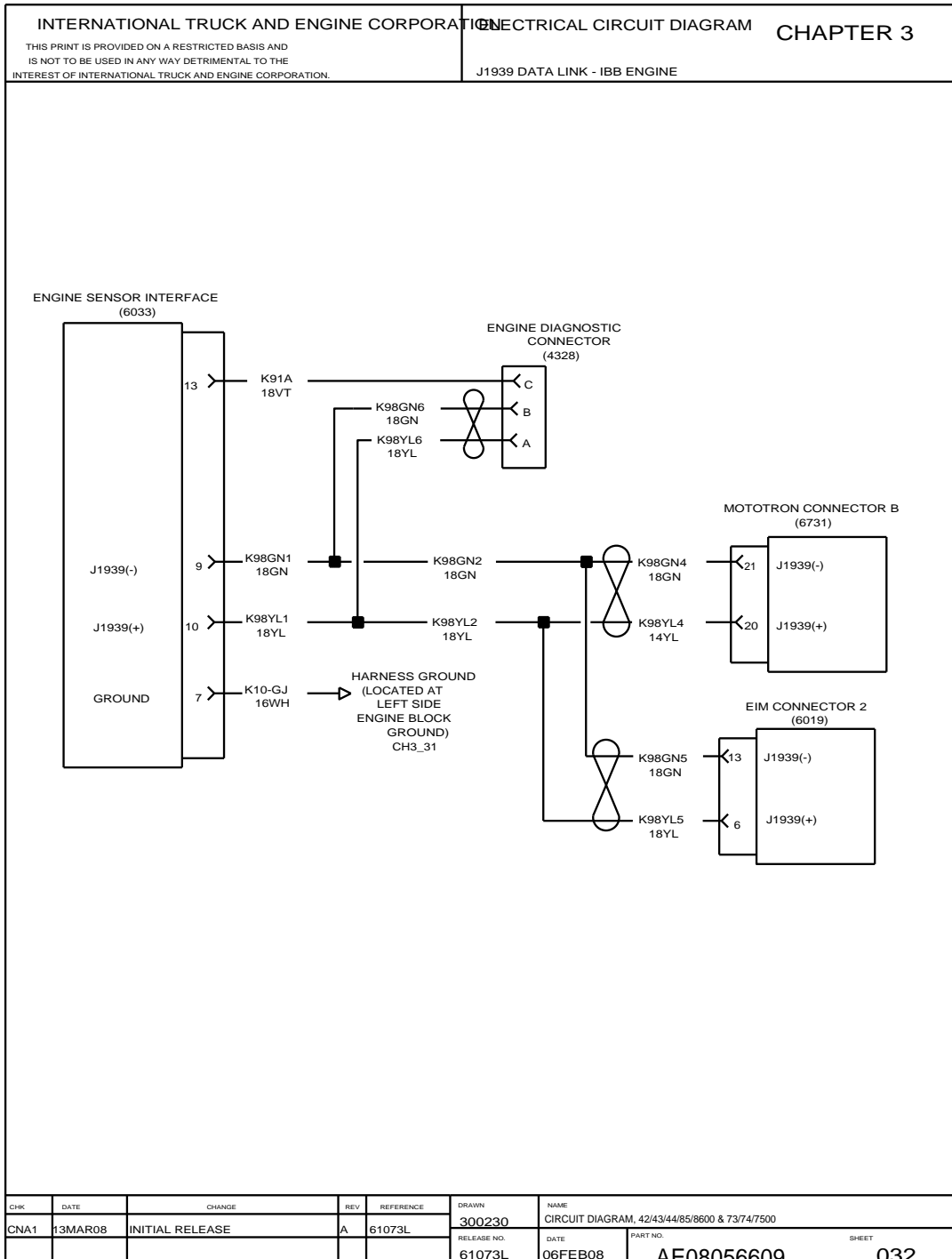
3.30. J1939 DATA LINK WITH V8 ENGINE, P. 30



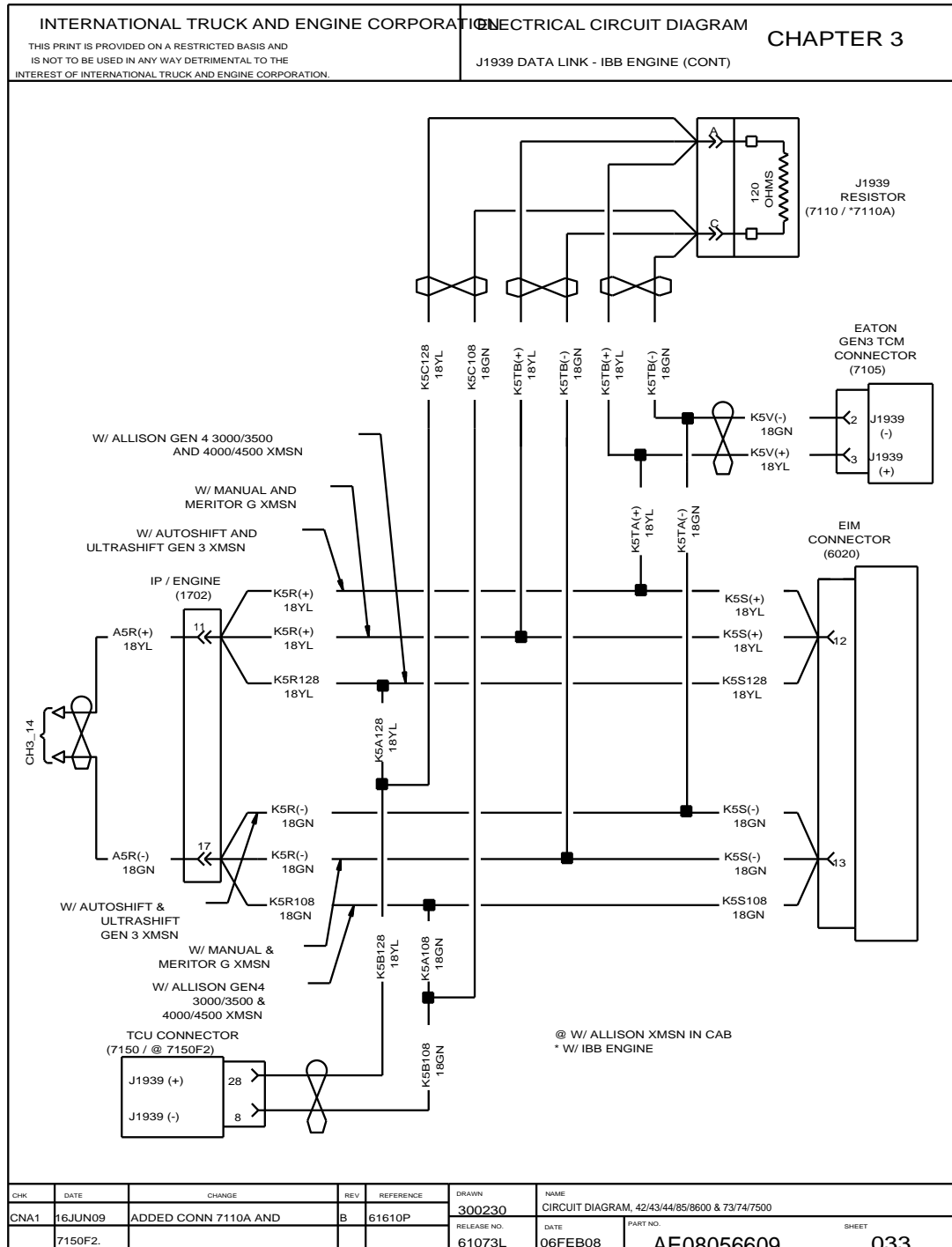
3.31. ENGINE GROUND — IBB ENGINE, P. 31



3.32. J1939 DATA LINK — IBB ENGINE, P. 32

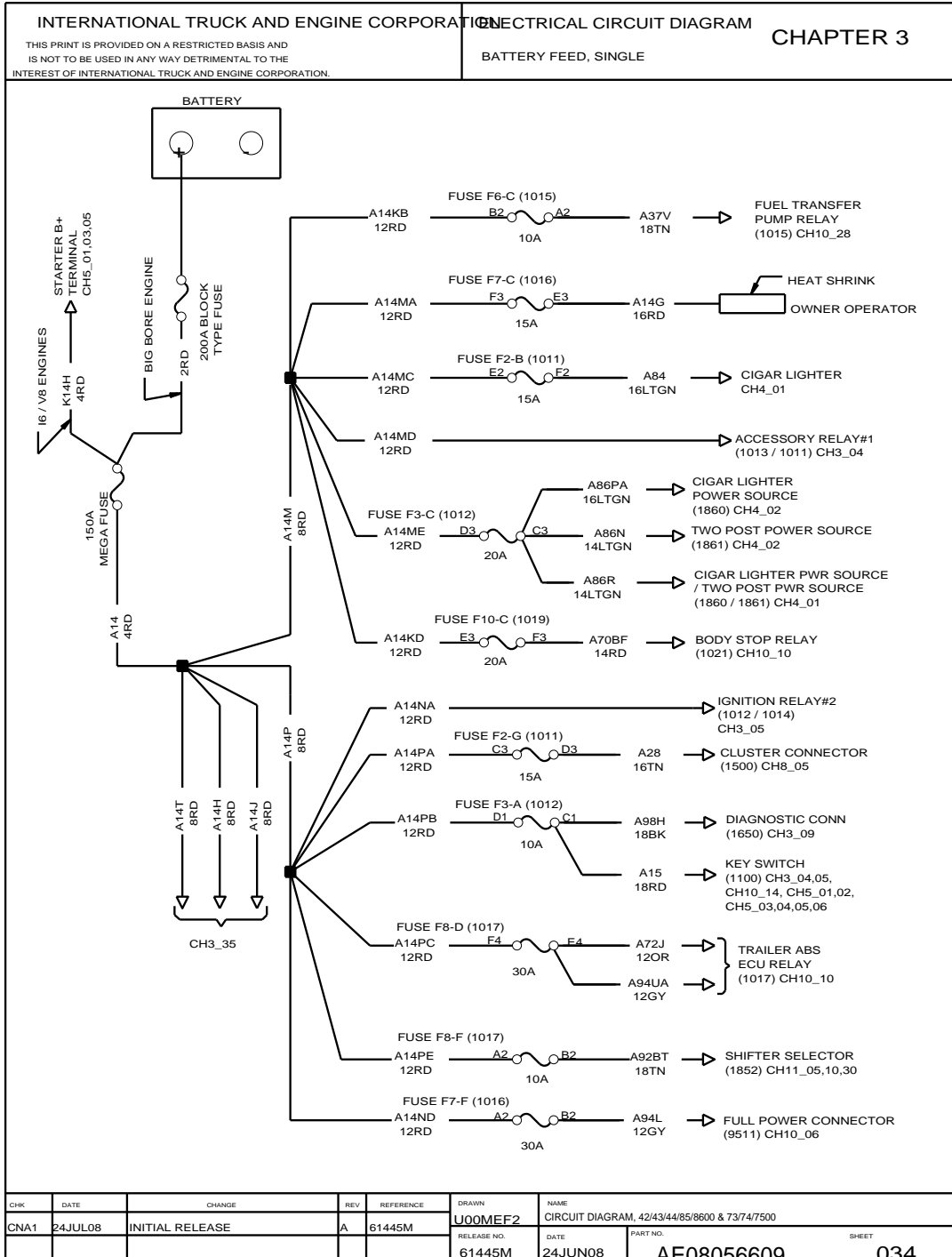


3.33. J1939 DATA LINK — IBB ENGINE, P. 33



12 VOLT POWER DISTRIBUTION, GROUNDS, DATA BUS AND ELECTRICAL SYSTEM CONTROLLER
(CHAPTER 3)
BATTERY FEED, SINGLE, P. 34

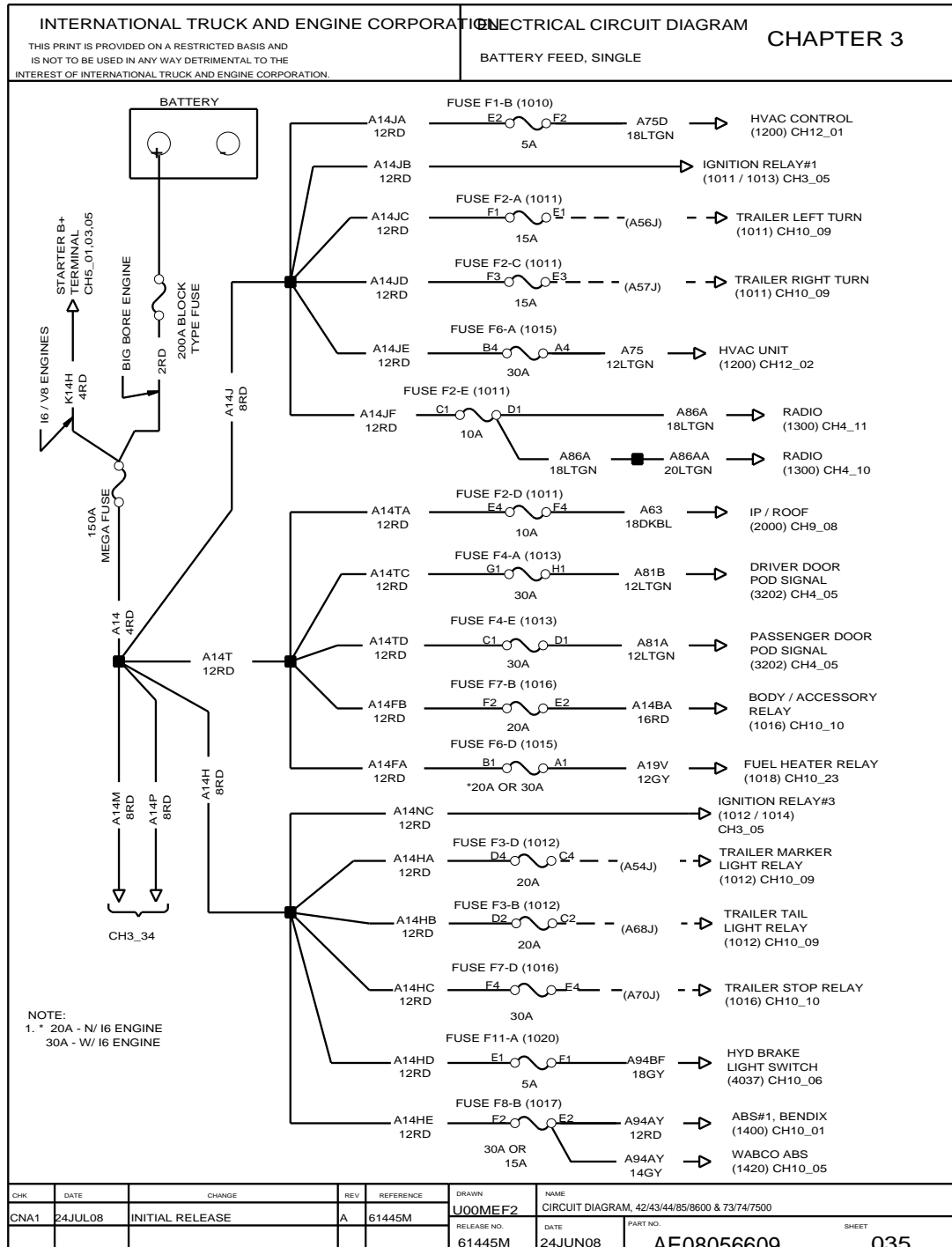
3.34. BATTERY FEED, SINGLE, P. 34



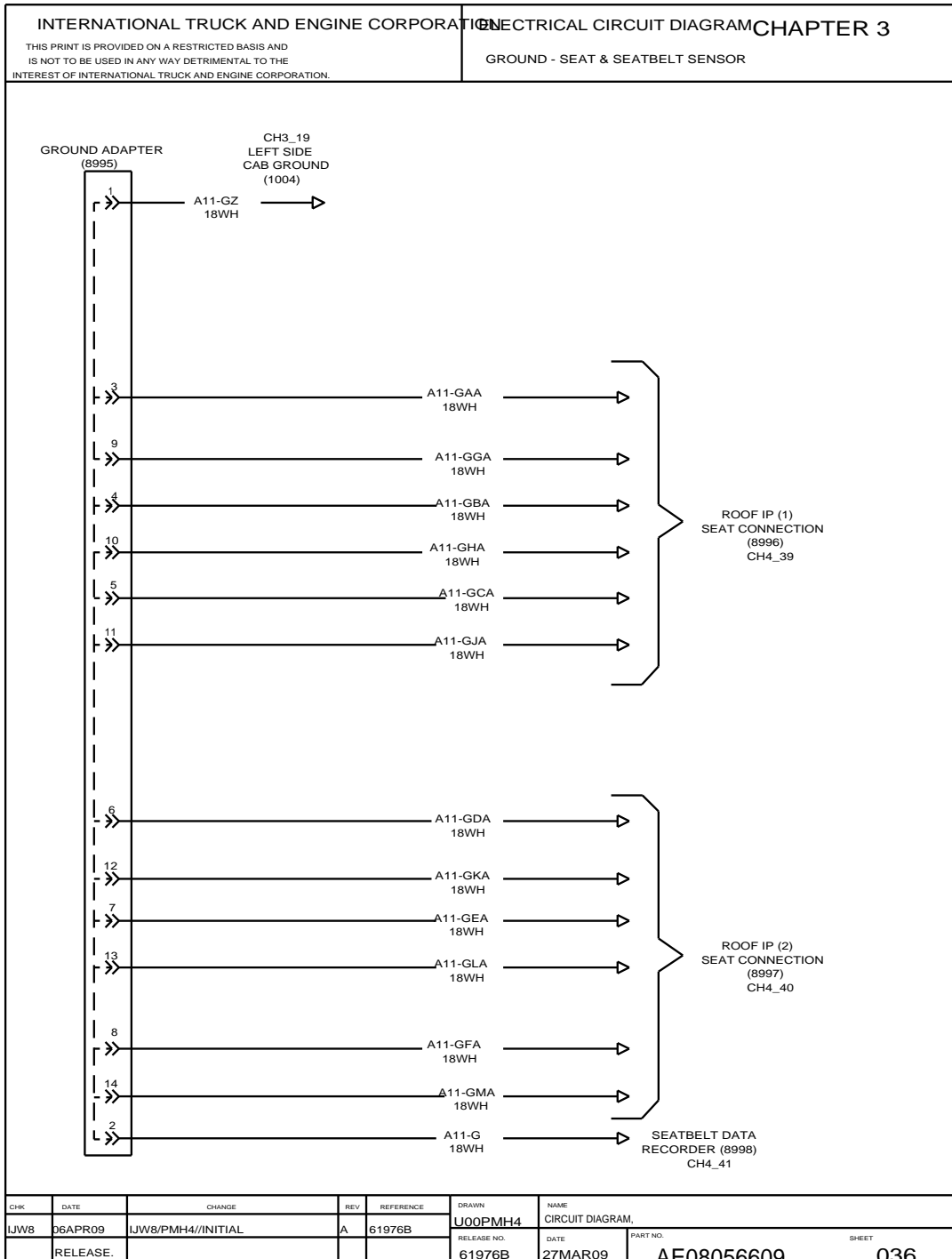
BATTERY FEED, SINGLE, P. 35
DATA BUS AND ELECTRICAL SYSTEM CONTROLLER (CHAPTER 3)

12 VOLT POWER DISTRIBUTION, GROUNDS,

3.35. BATTERY FEED, SINGLE, P. 35

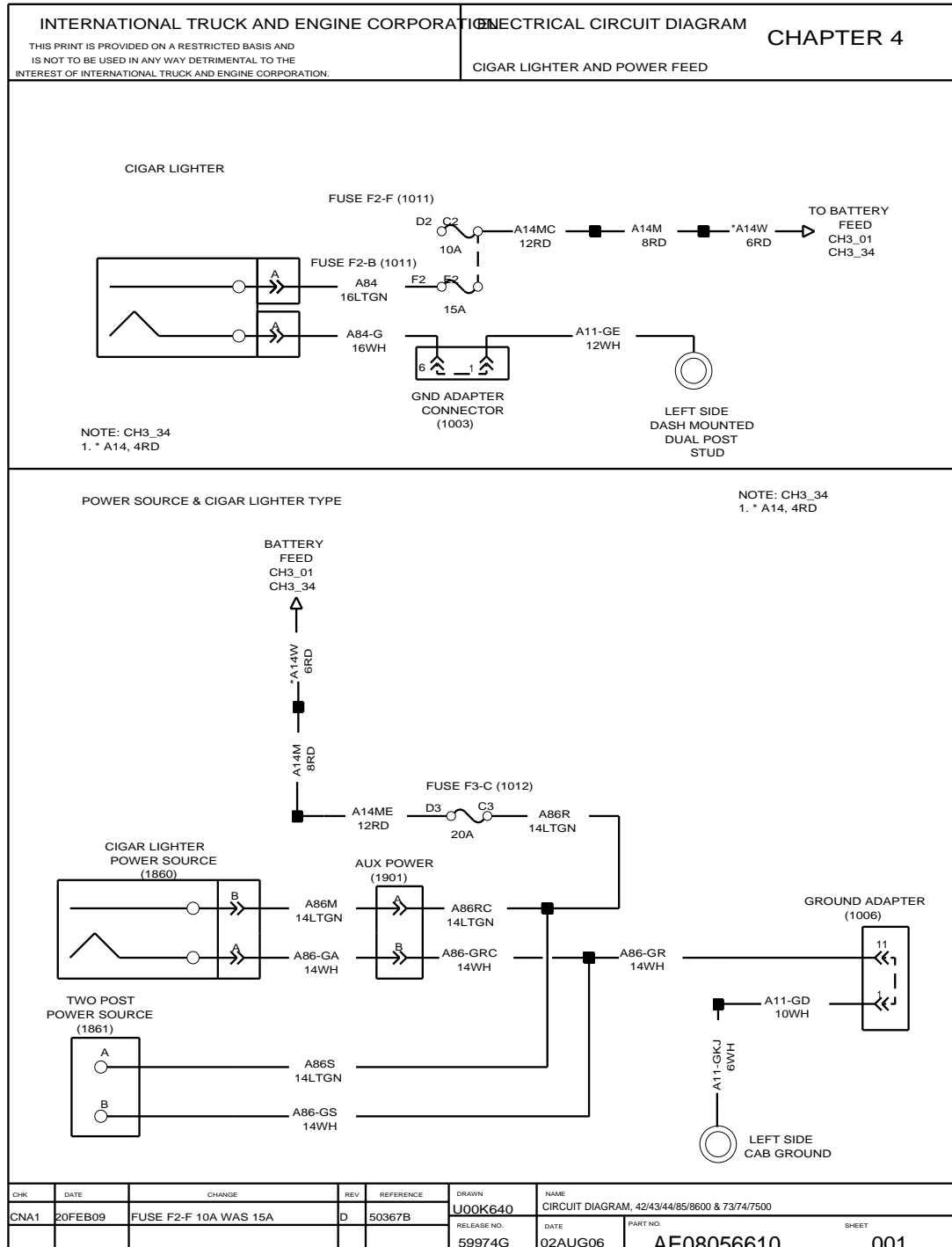


3.36. GROUND — SEAT AND SEATBELT SENSOR, P. 36

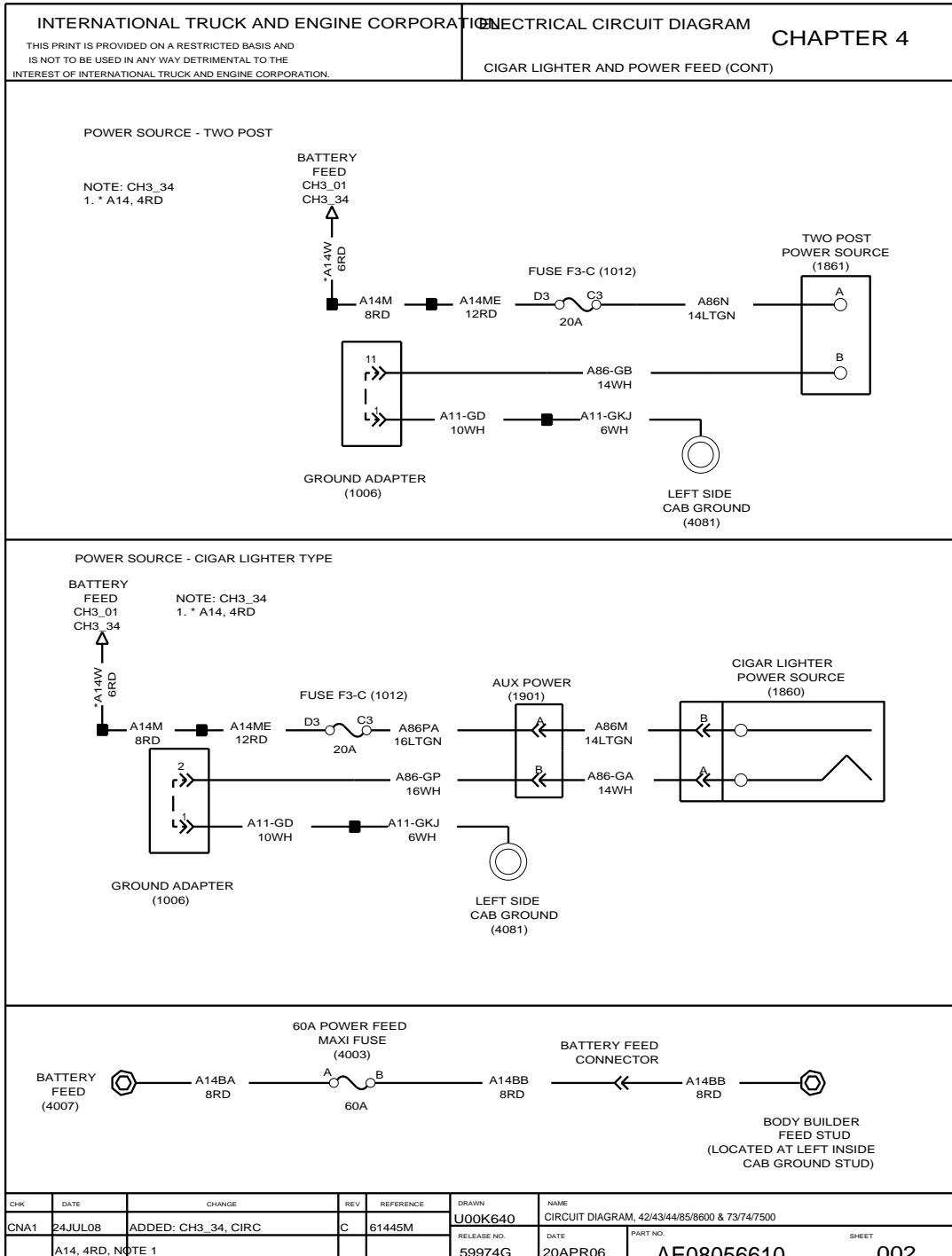


4. CAB ACCESSORIES (CHAPTER 4)

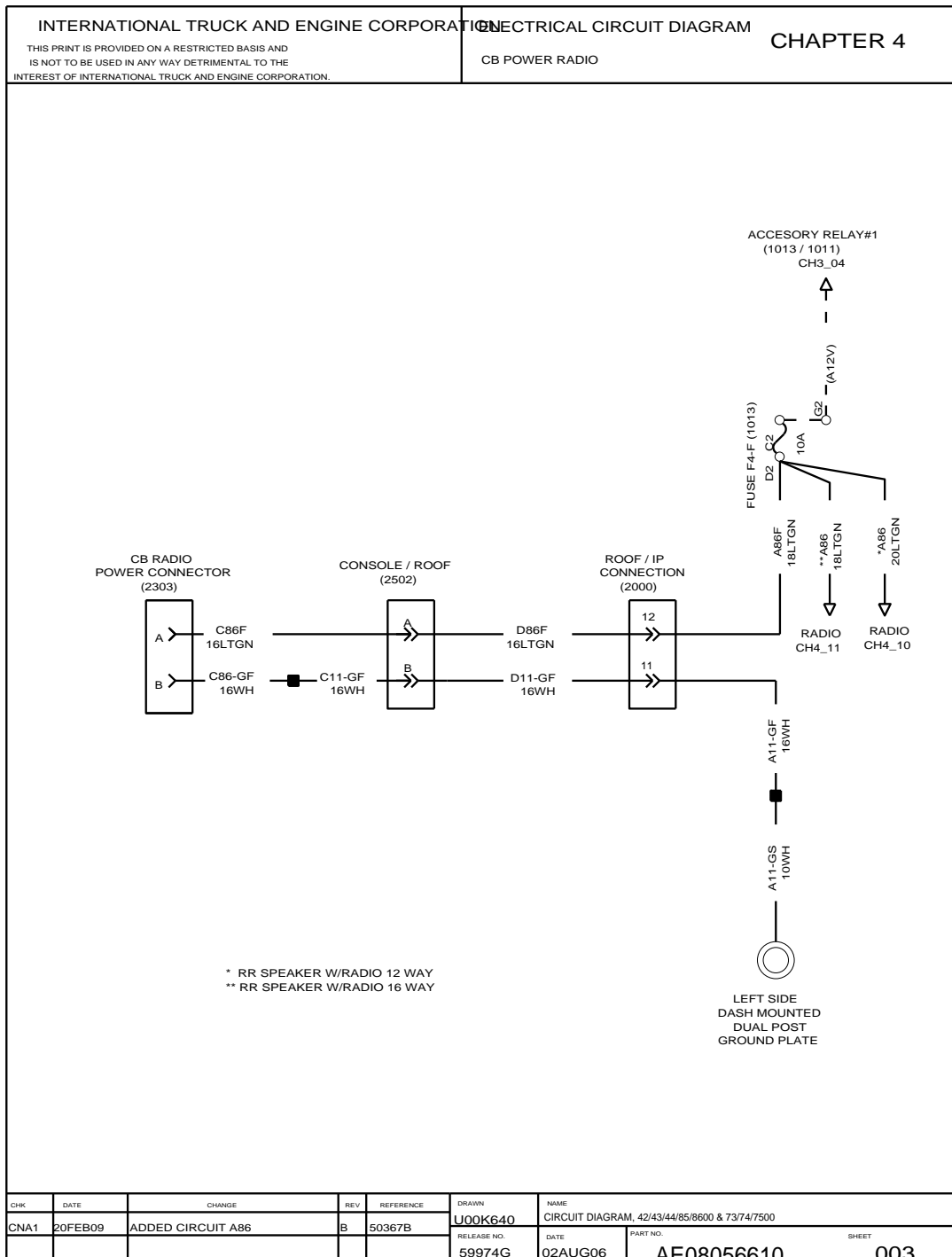
4.1. CIGAR LIGHTER AND POWER FEED, P. 1



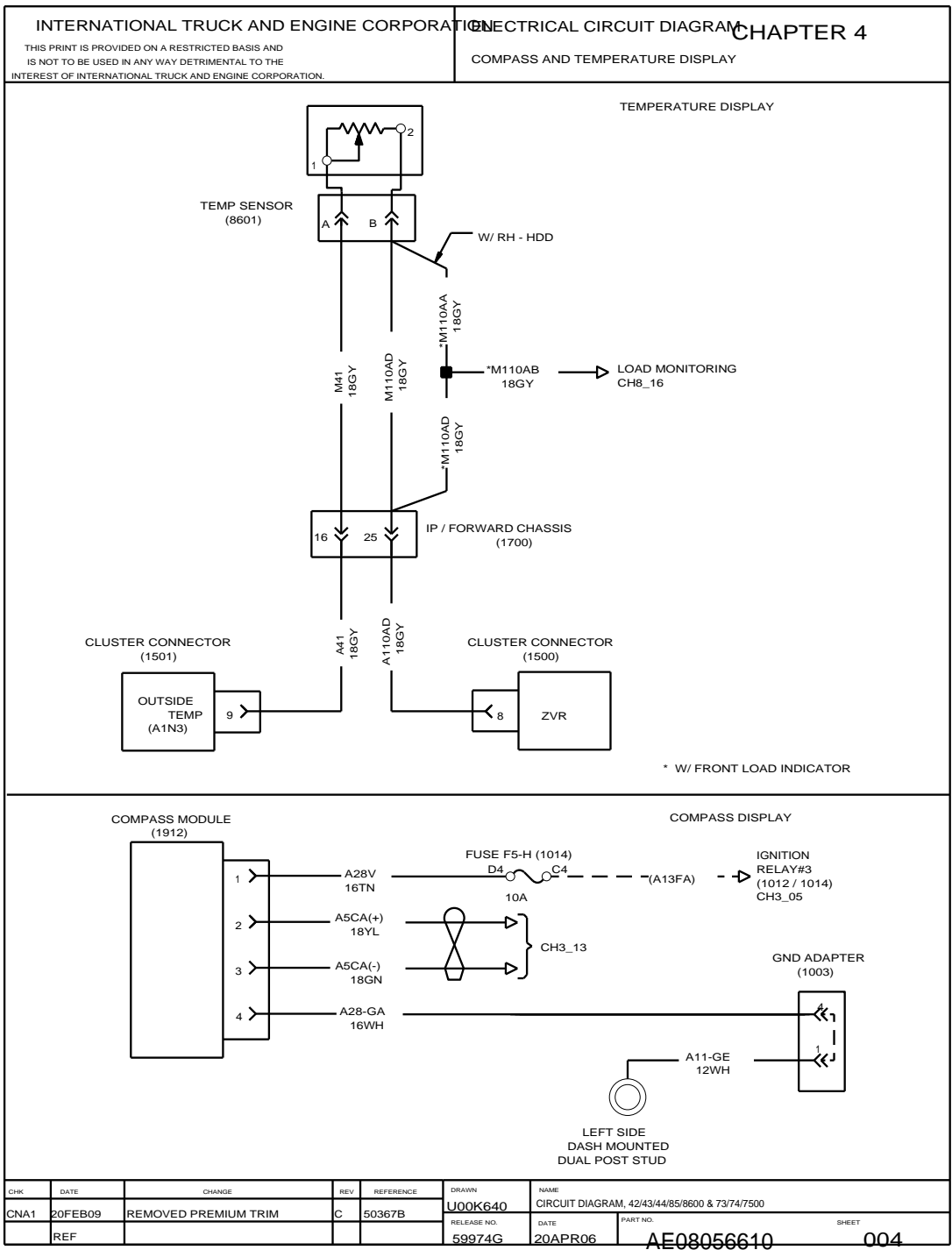
4.2. CIGAR LIGHTER AND POWER FEED, P. 2



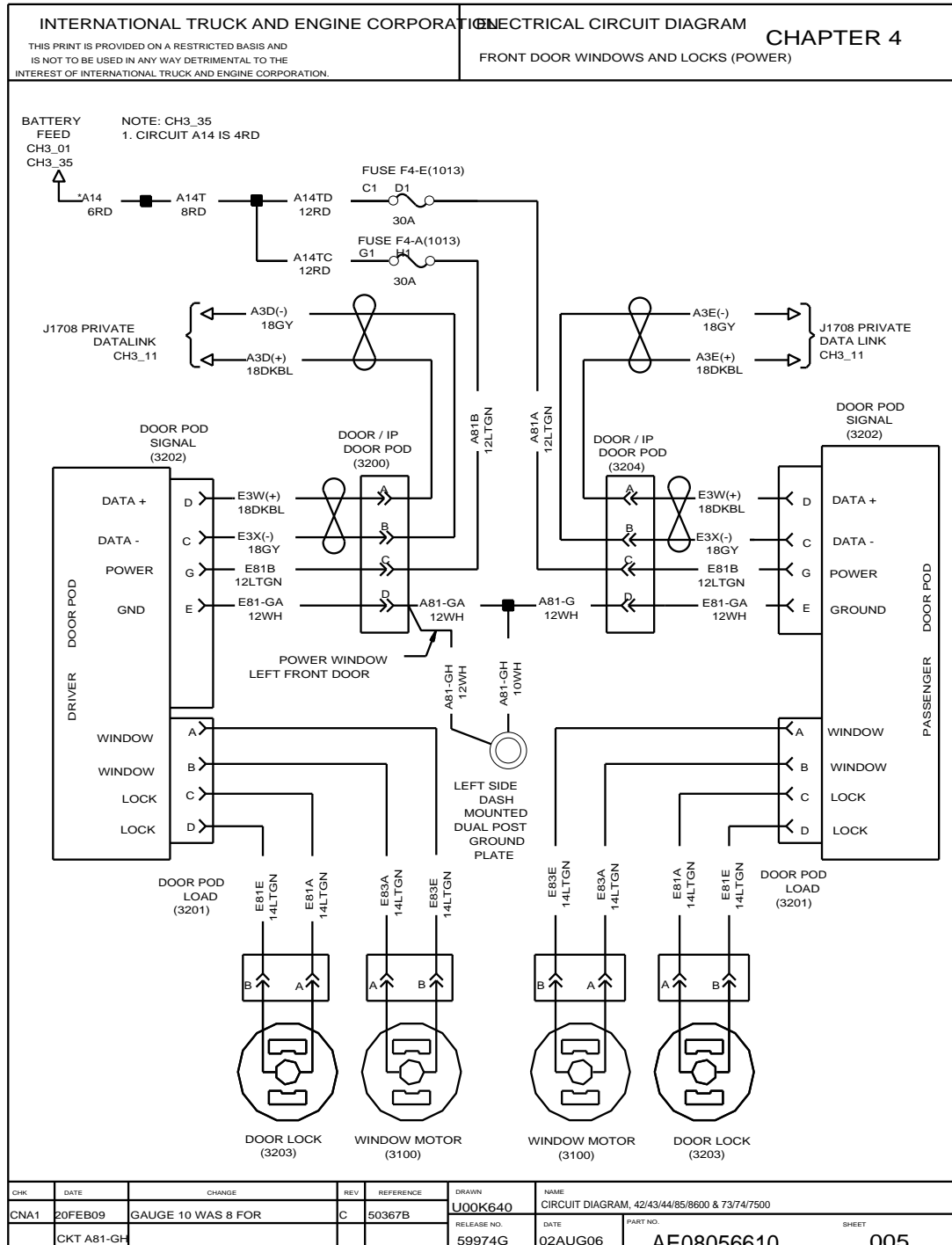
4.3. CB POWER RADIO, P. 3



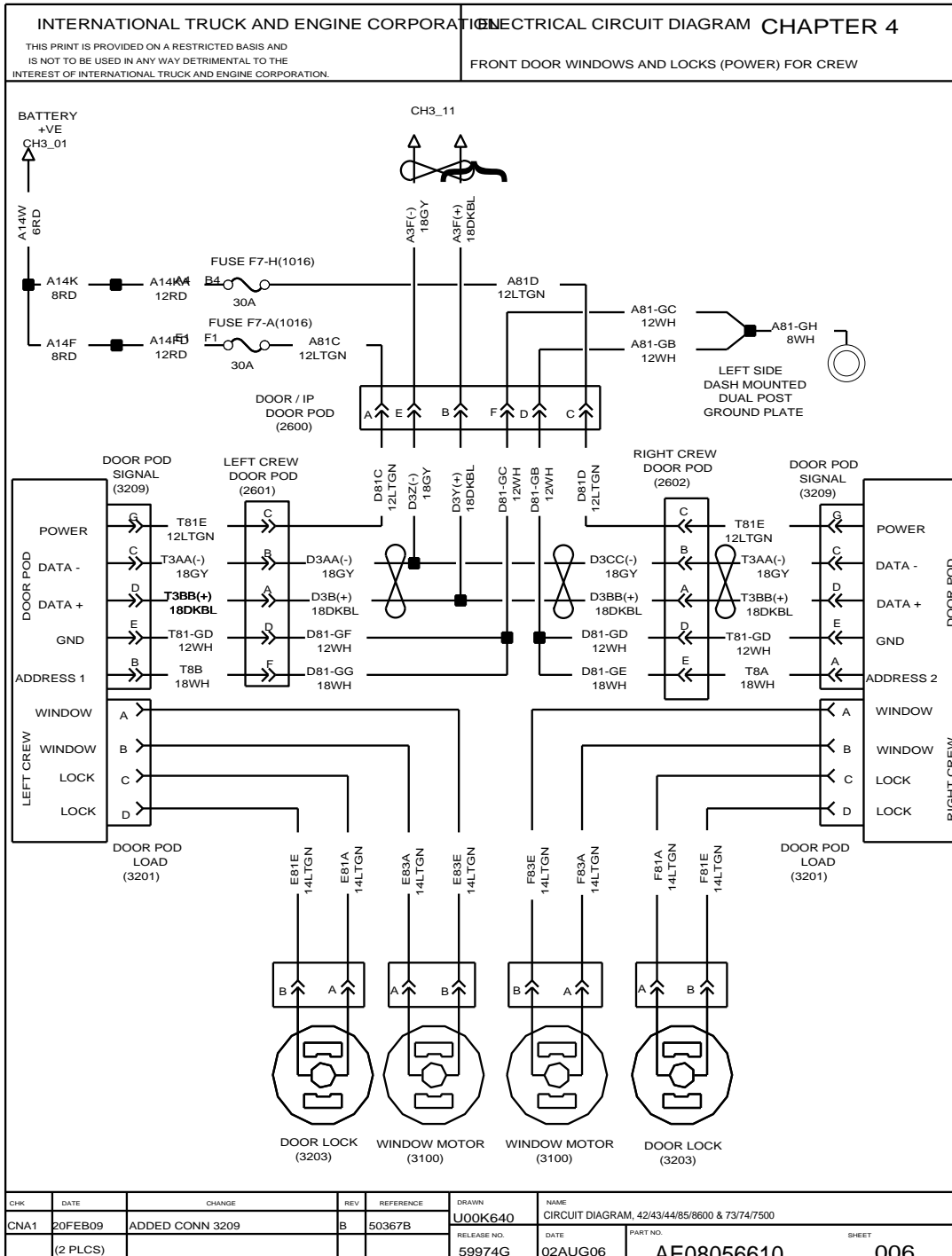
4.4. COMPASS AND TEMPERATURE DISPLAY, P. 4



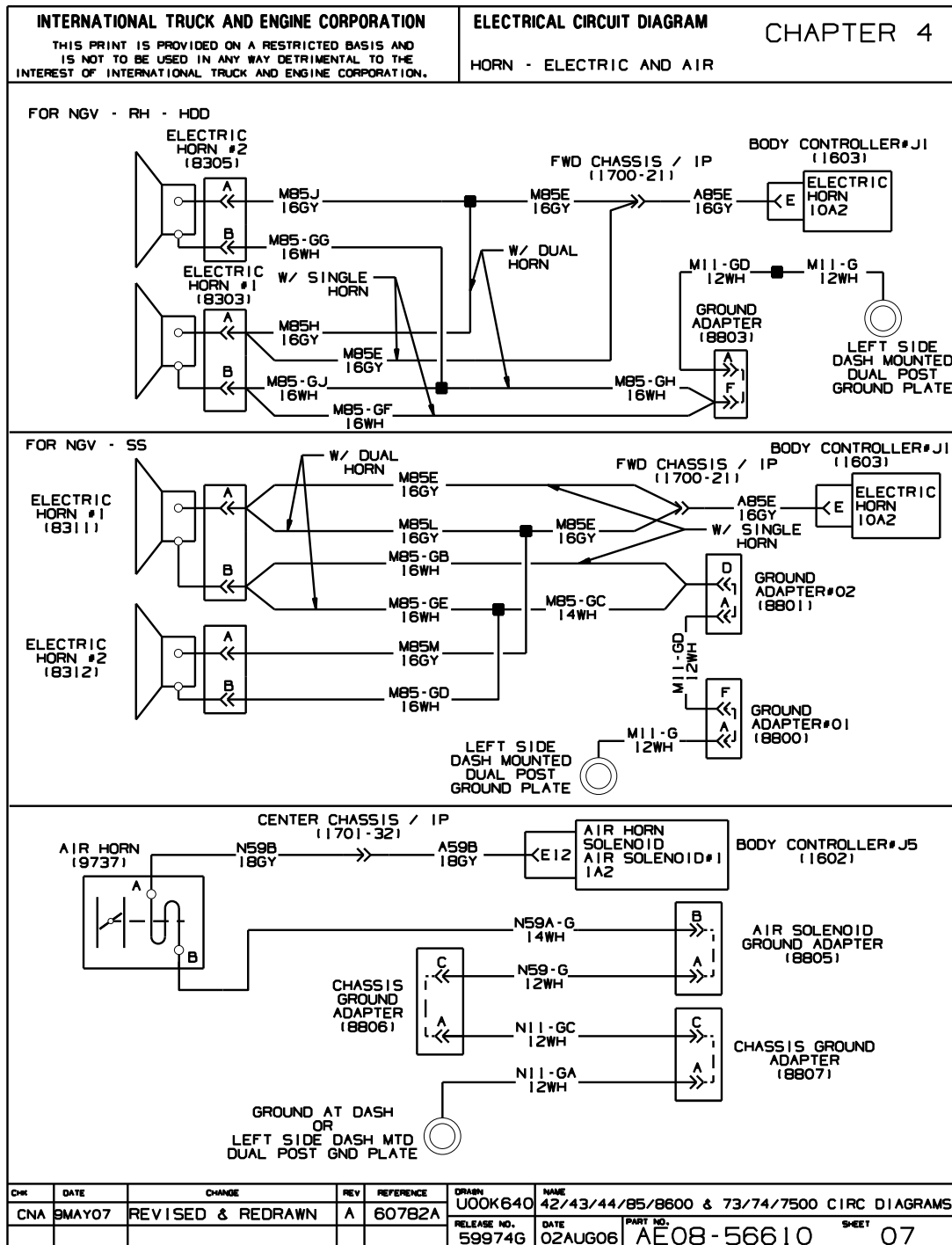
4.5. FRONT DOOR WINDOWS AND LOCKS (POWER), P. 5



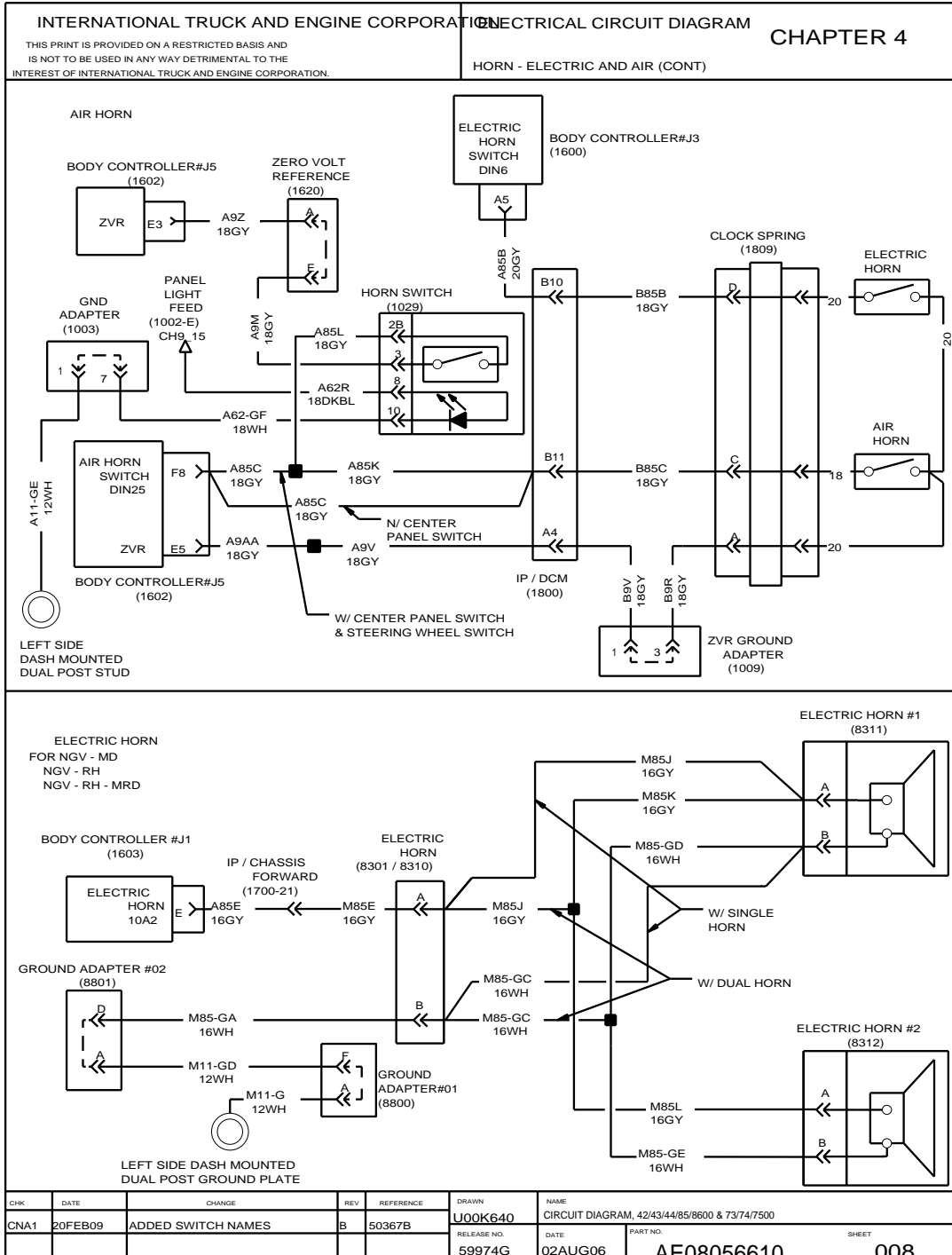
4.6. FRONT DOOR WINDOWS AND LOCKS (POWER) FOR CREW, P. 6



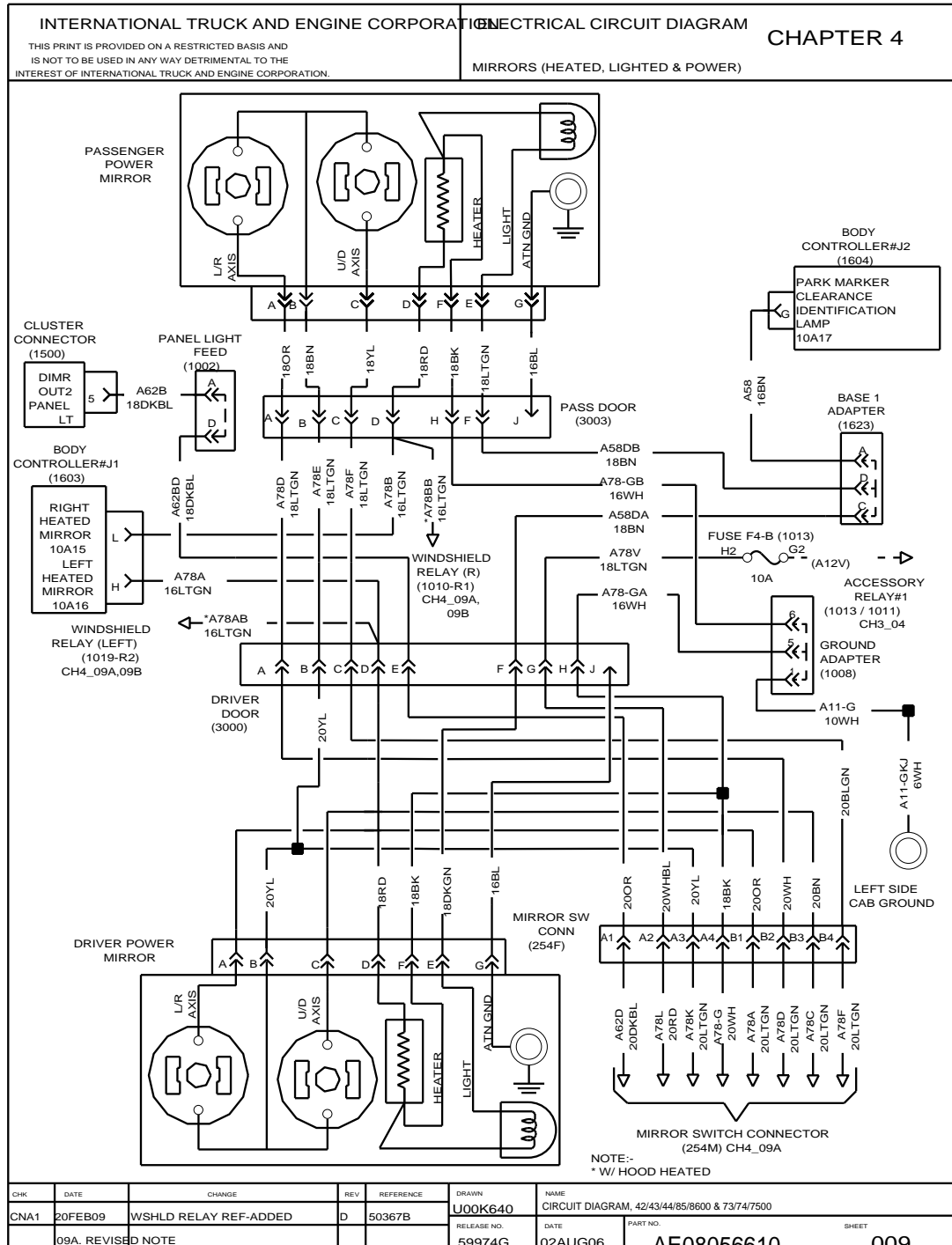
4.7. HORN, ELECTRIC AND AIR, P. 7



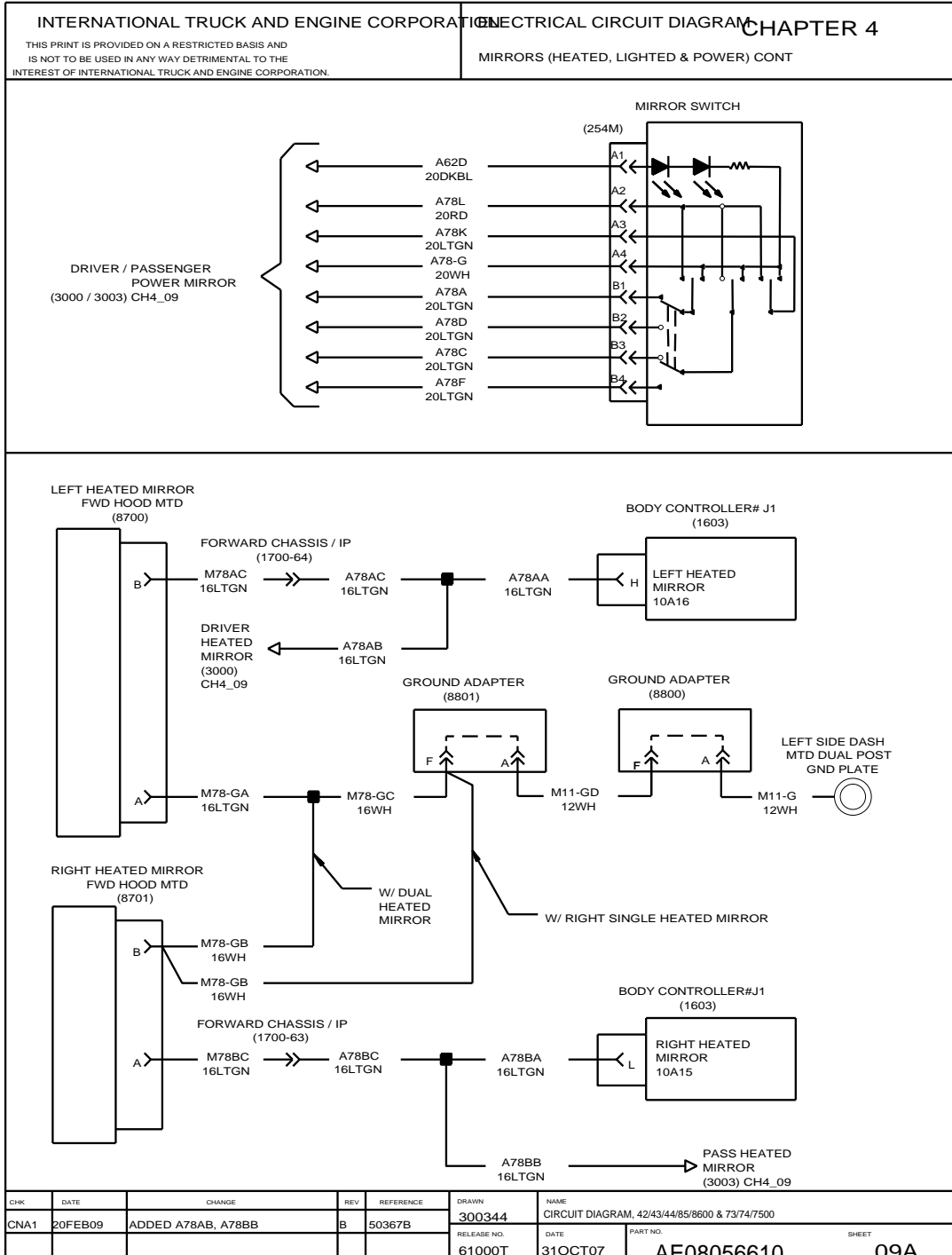
4.8. HORN, ELECTRIC AND AIR, P. 8



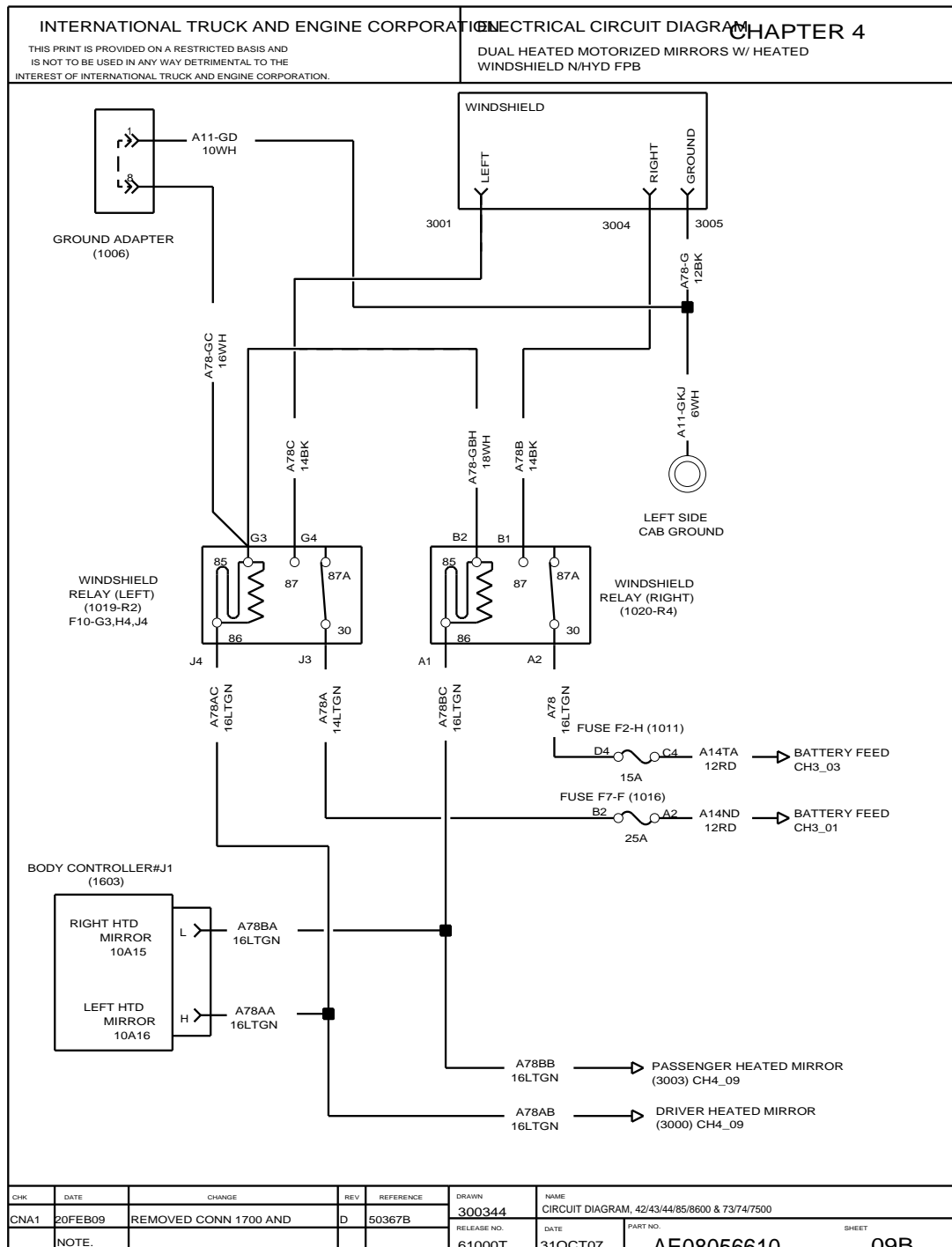
4.9. MIRRORS (HEATED, LIGHTED AND POWER), P. 9



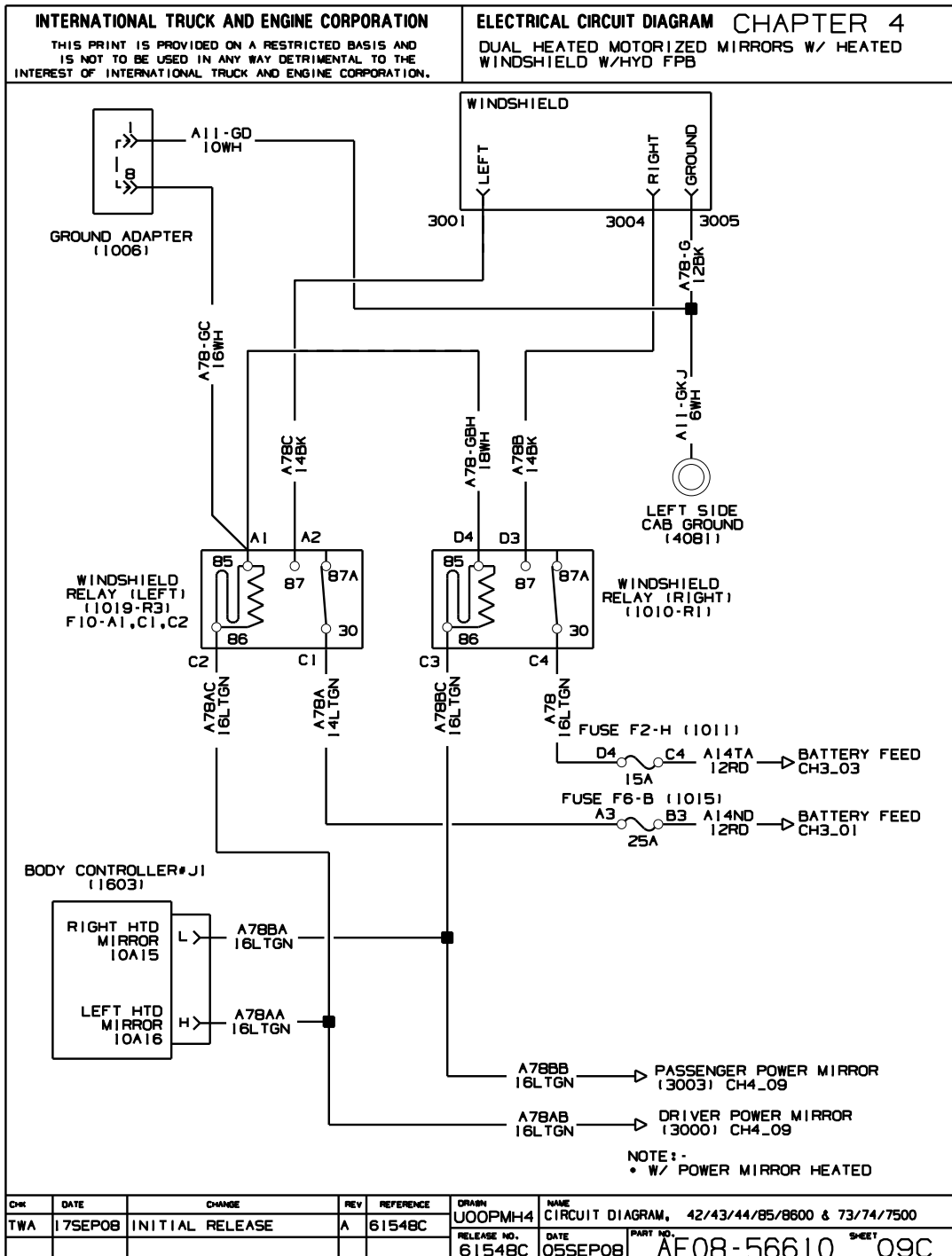
4.10. MIRRORS (HEATED, LIGHTED AND POWER), P. 9A



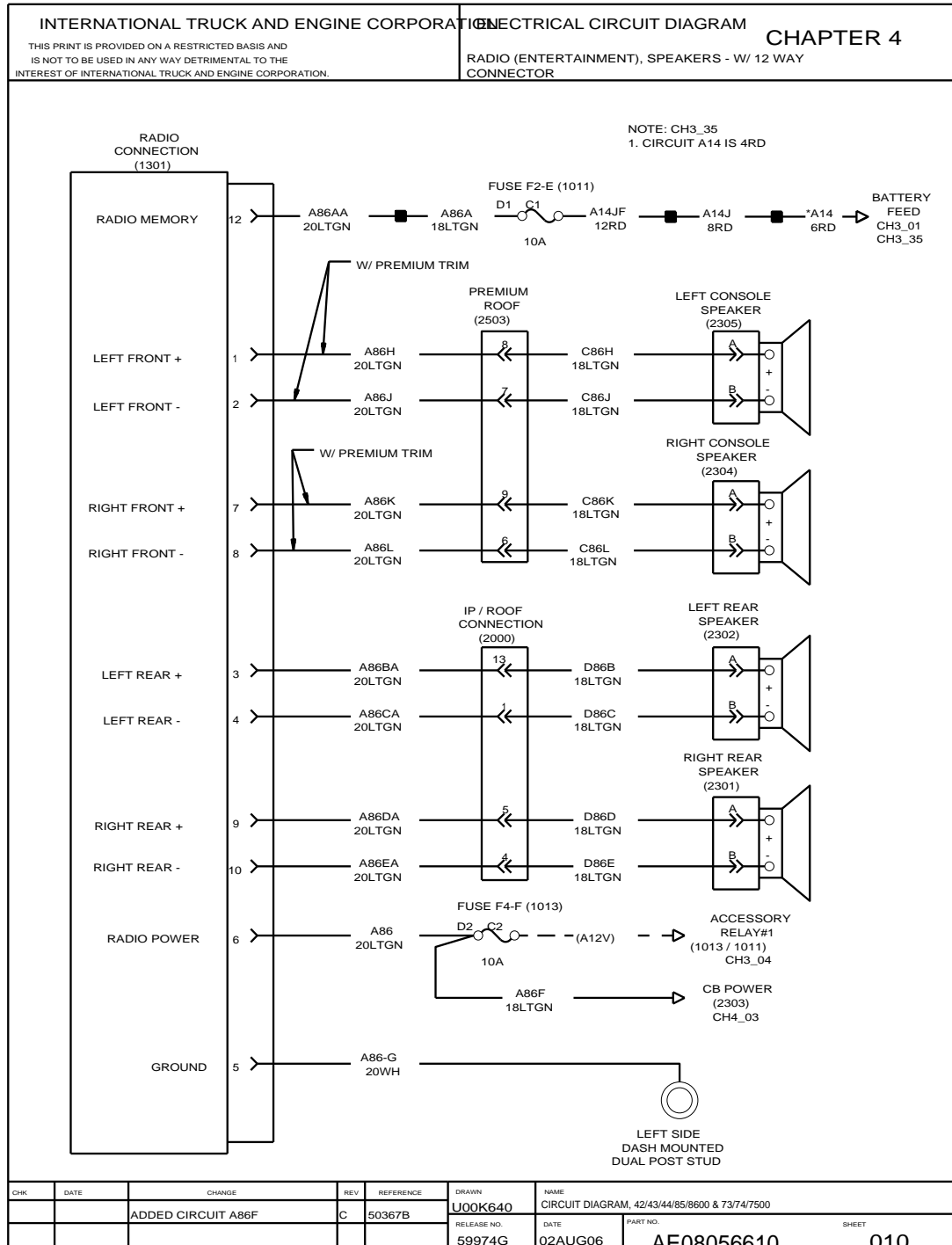
4.11. DUAL HEATED MOTORIZED MIRRORS WITH HEATED WINDSHIELD, N/HYD
 FPB, P. 9B



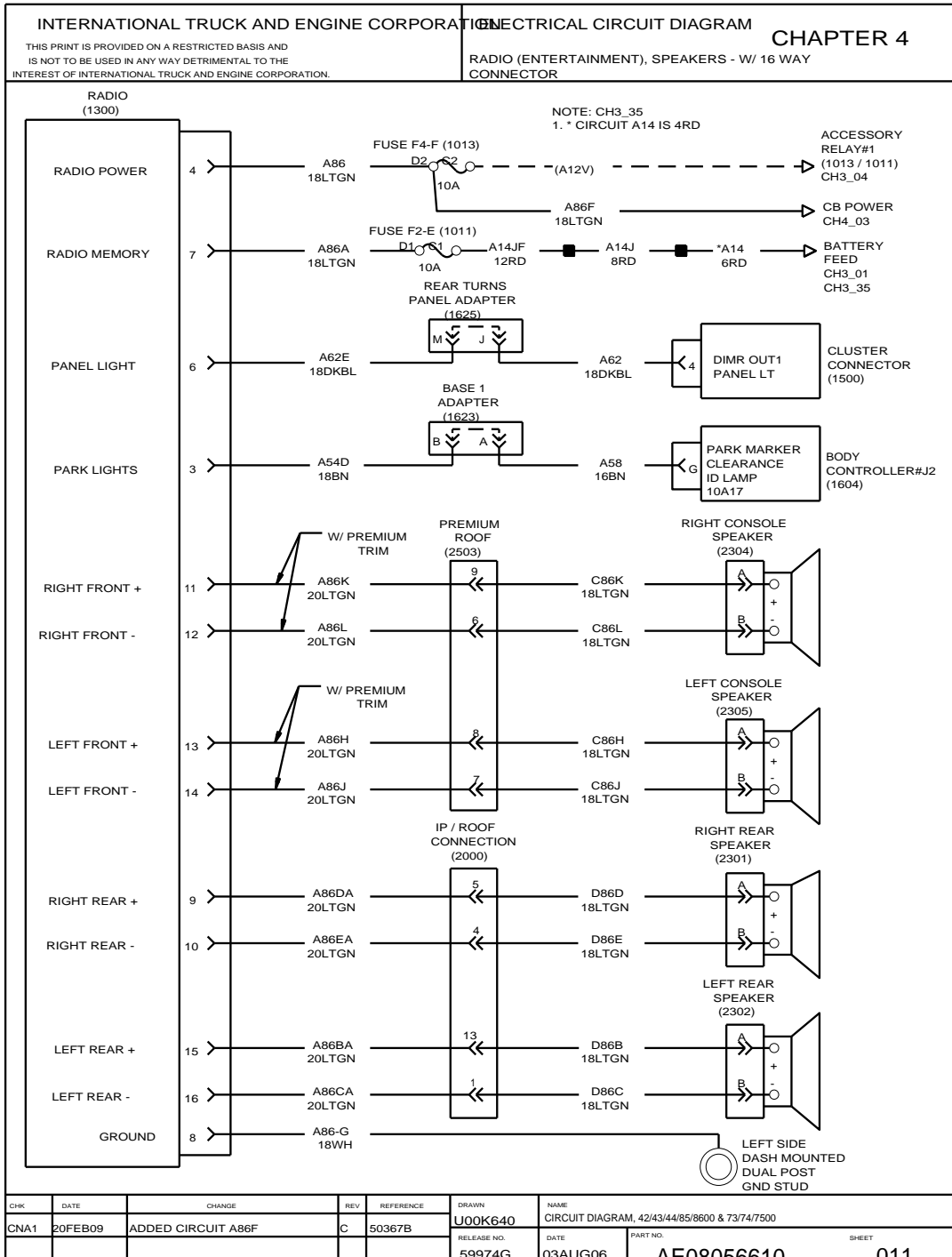
4.12. DUAL HEATED MOTORIZED MIRRORS WITH HEATED WINDSHIELD, W/HYD FPB, P. 9C



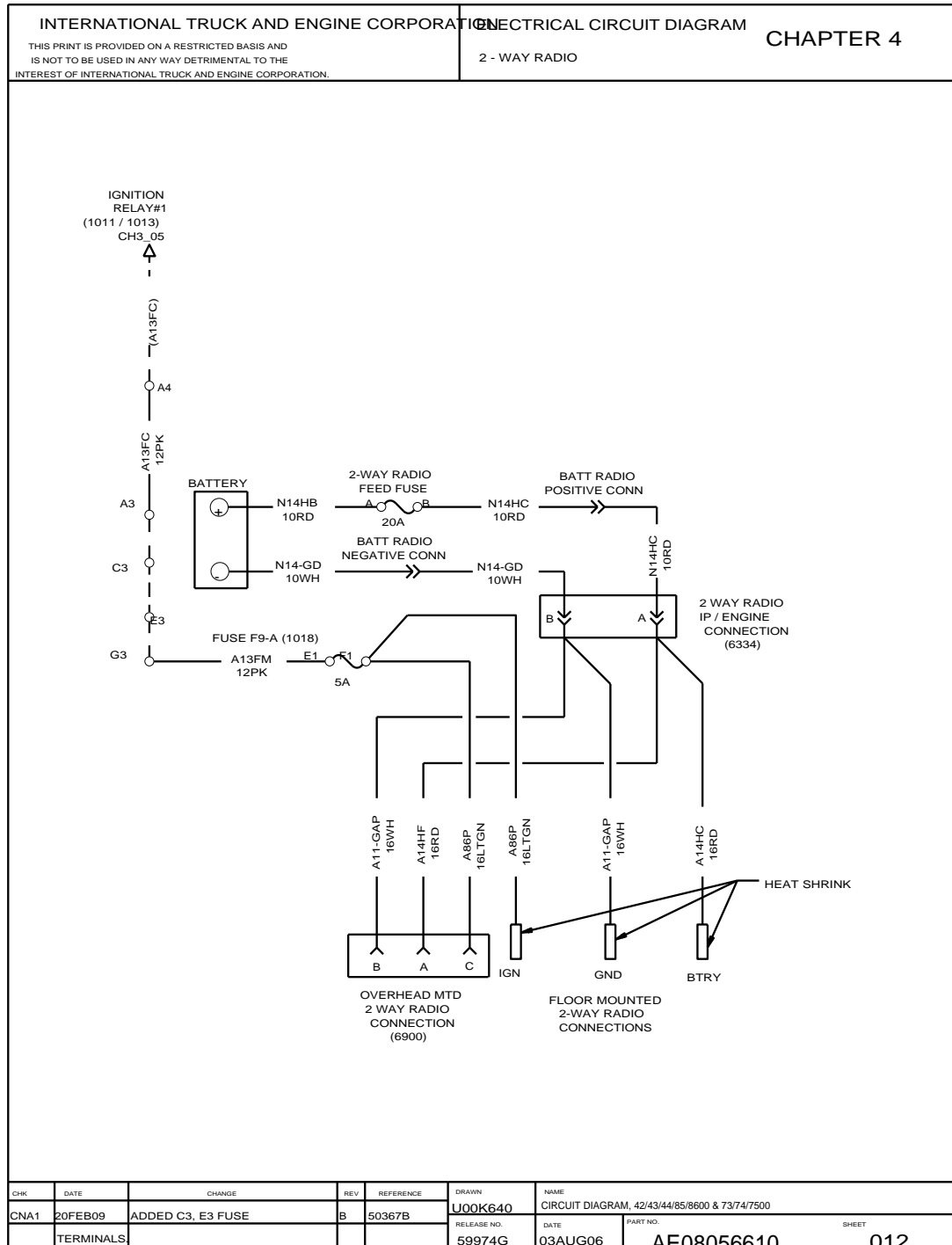
4.13. RADIO (ENTERTAINMENT), SPEAKERS WITH 12 WAY CONN, P. 10



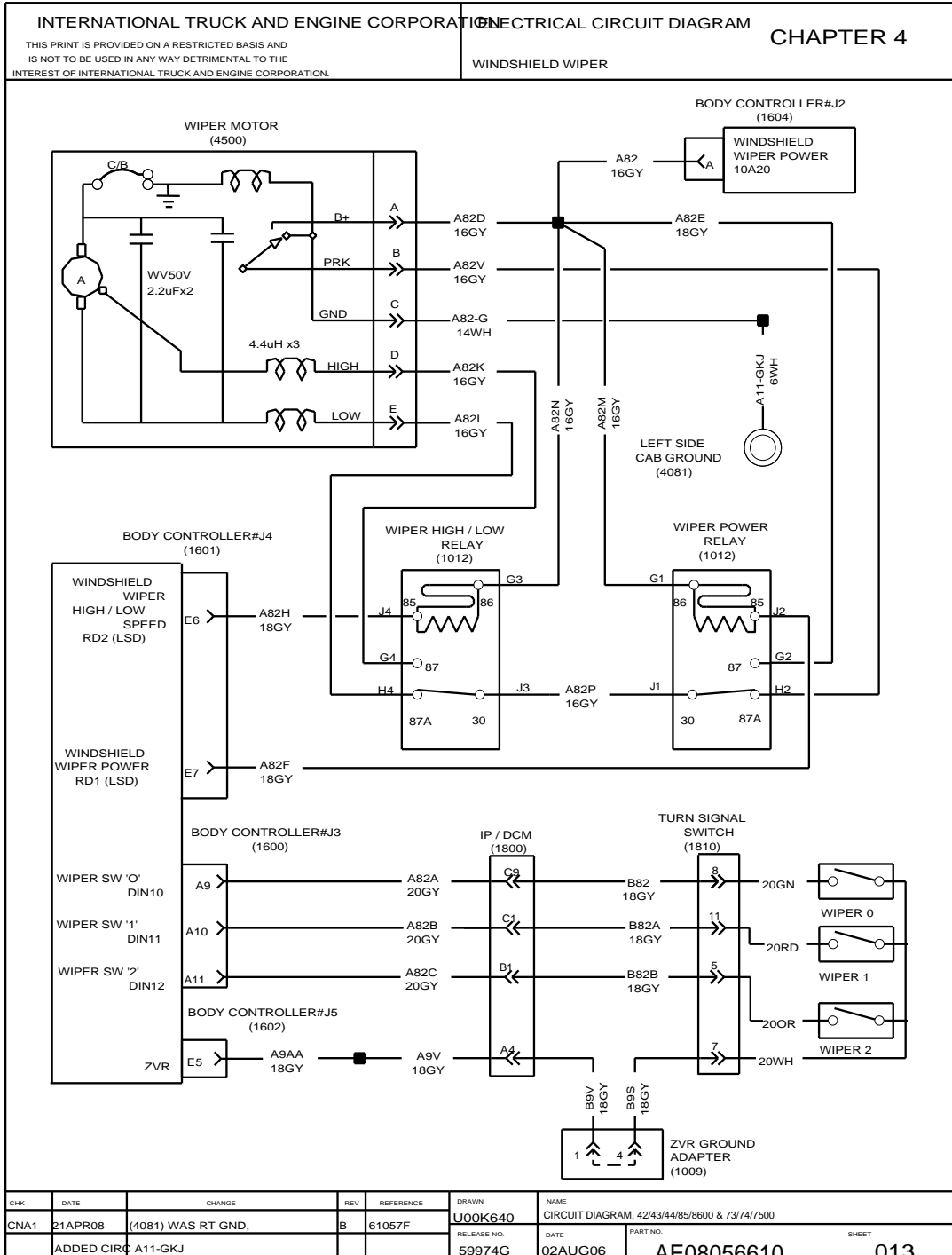
4.14. RADIO (ENTERTAINMENT), SPEAKERS WITH 16 WAY CONN, P. 11



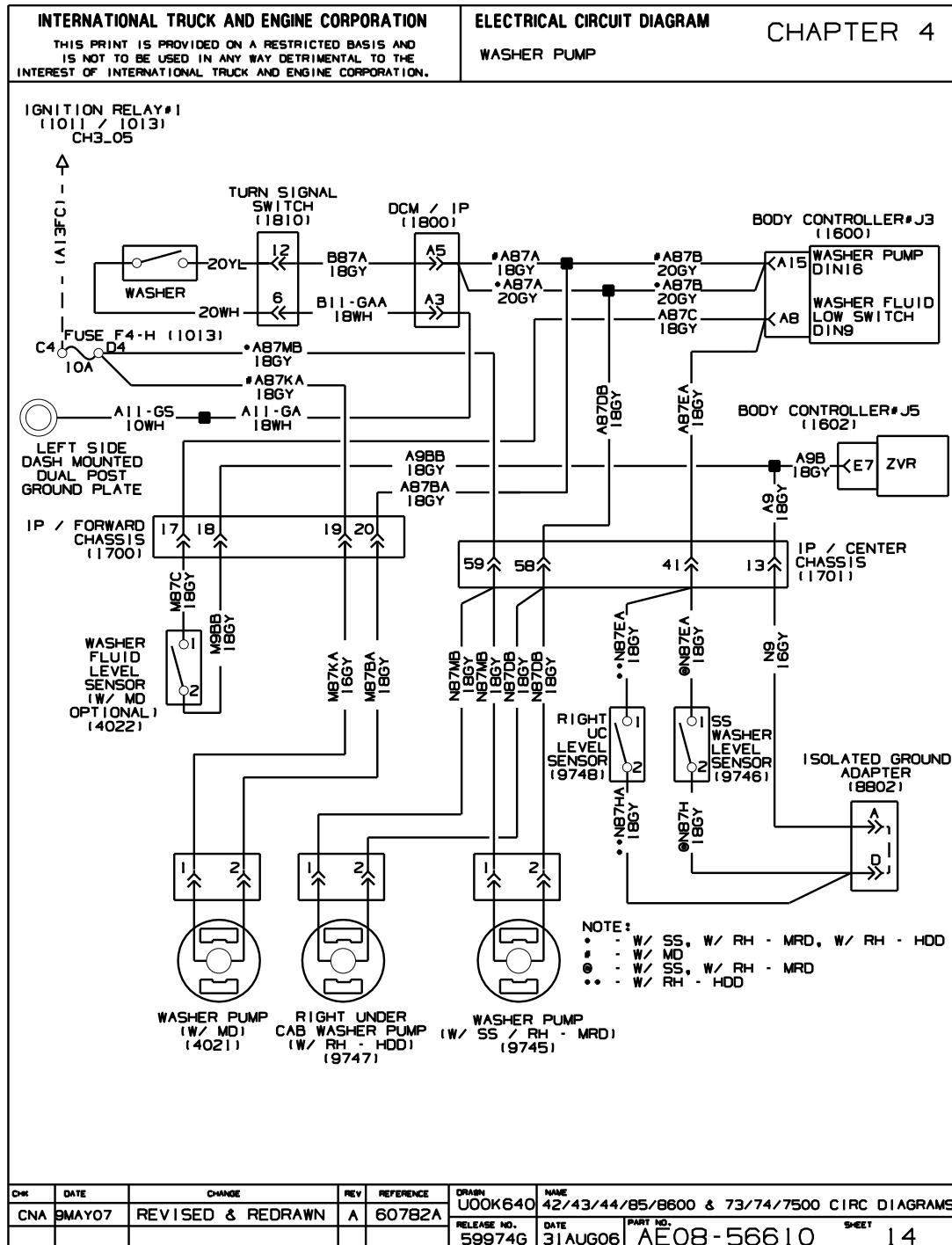
4.15. 2-WAY RADIO, P. 12



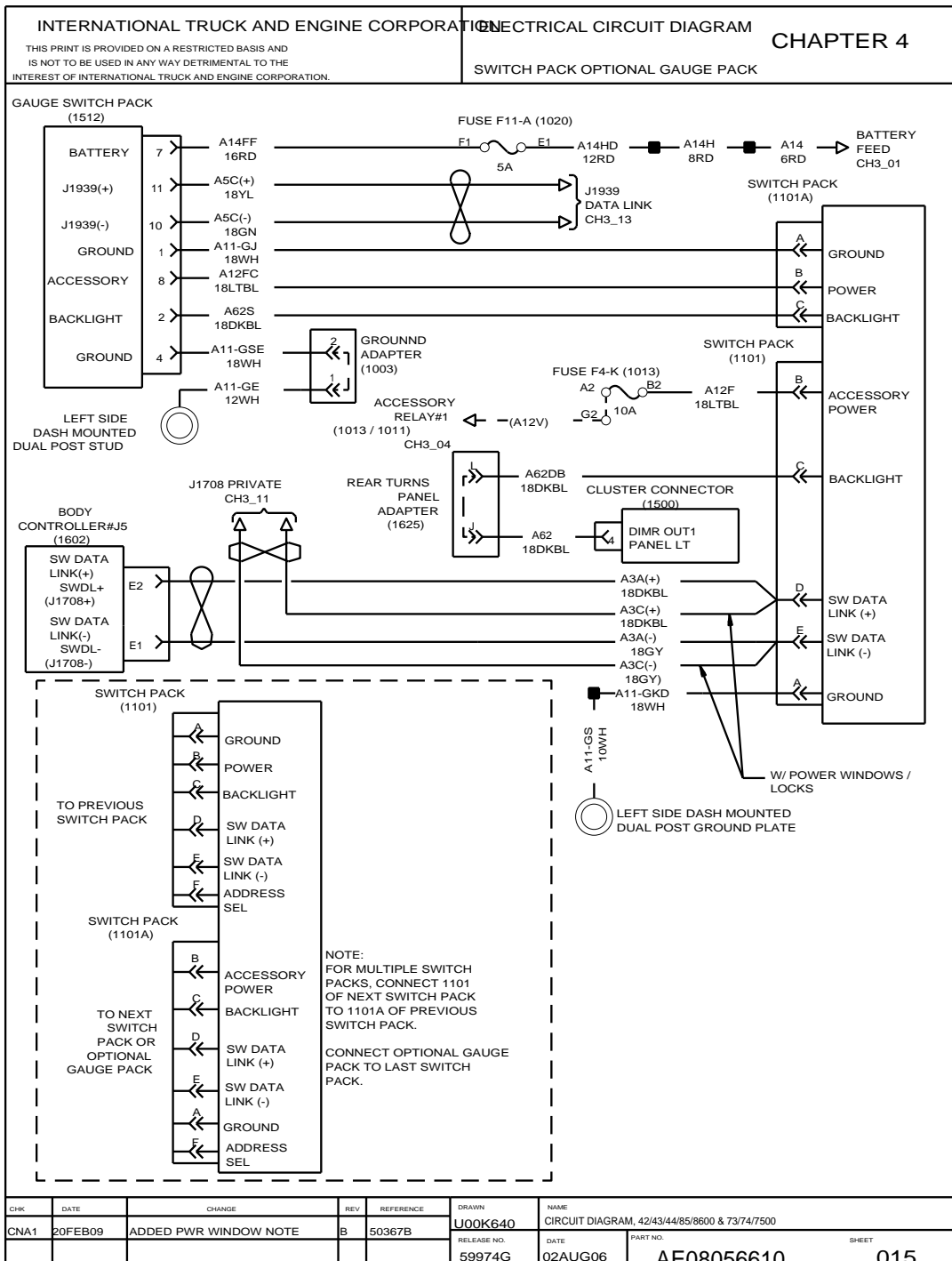
4.16. WINDSHIELD WIPER, P. 13



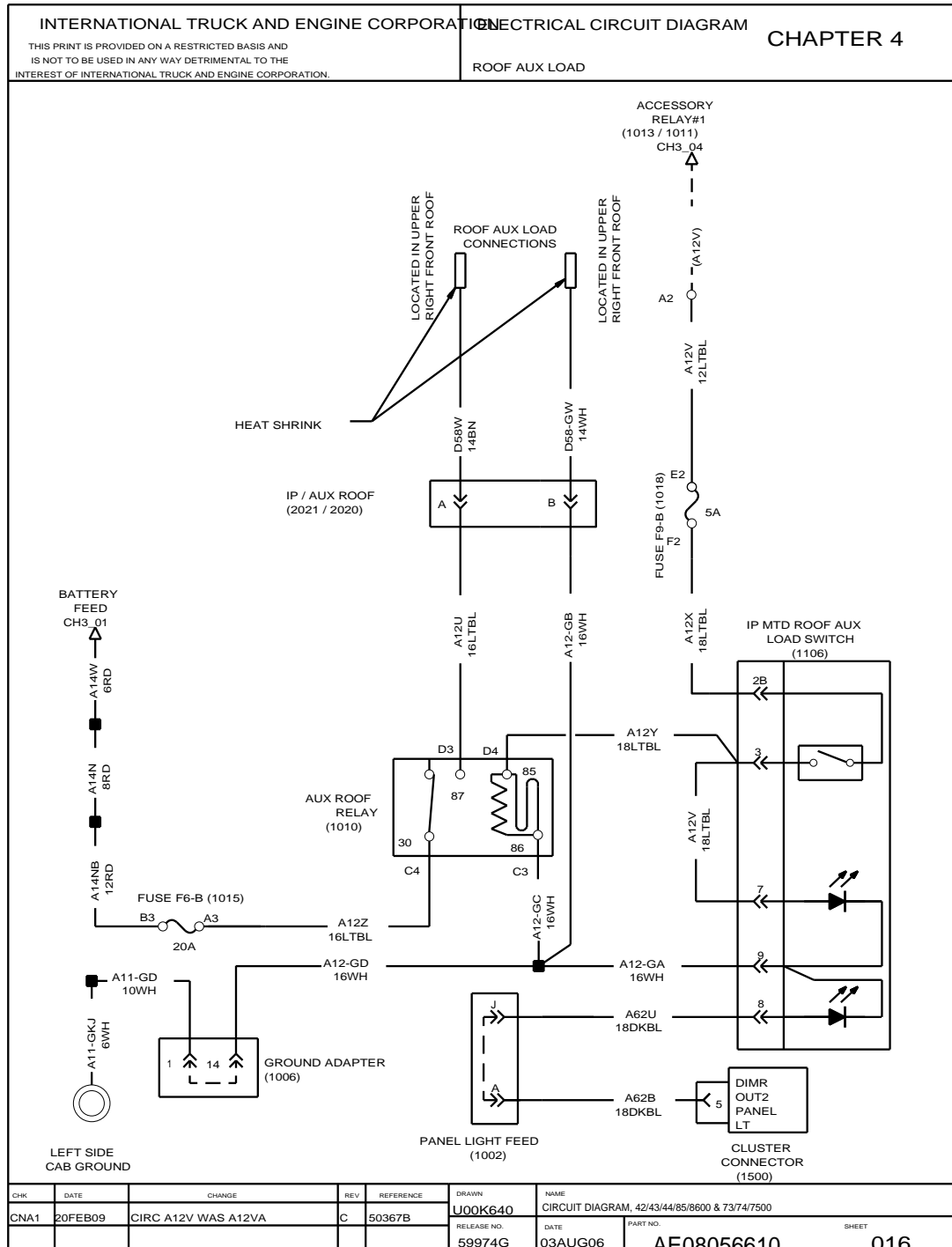
4.17. WASHER PUMP, P. 14



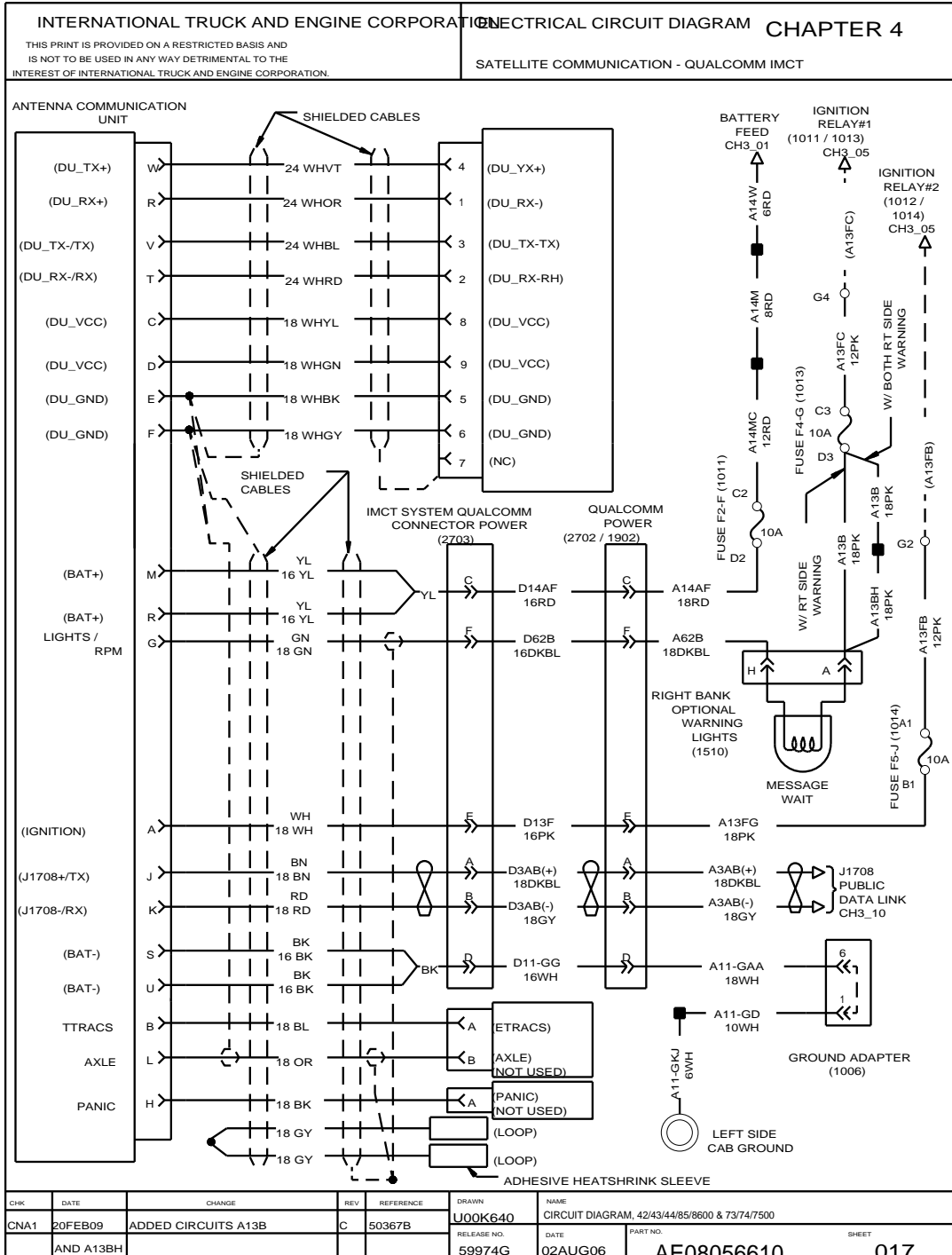
4.18. SWITCH PACK OPTIONAL GAUGE PACK, P. 15



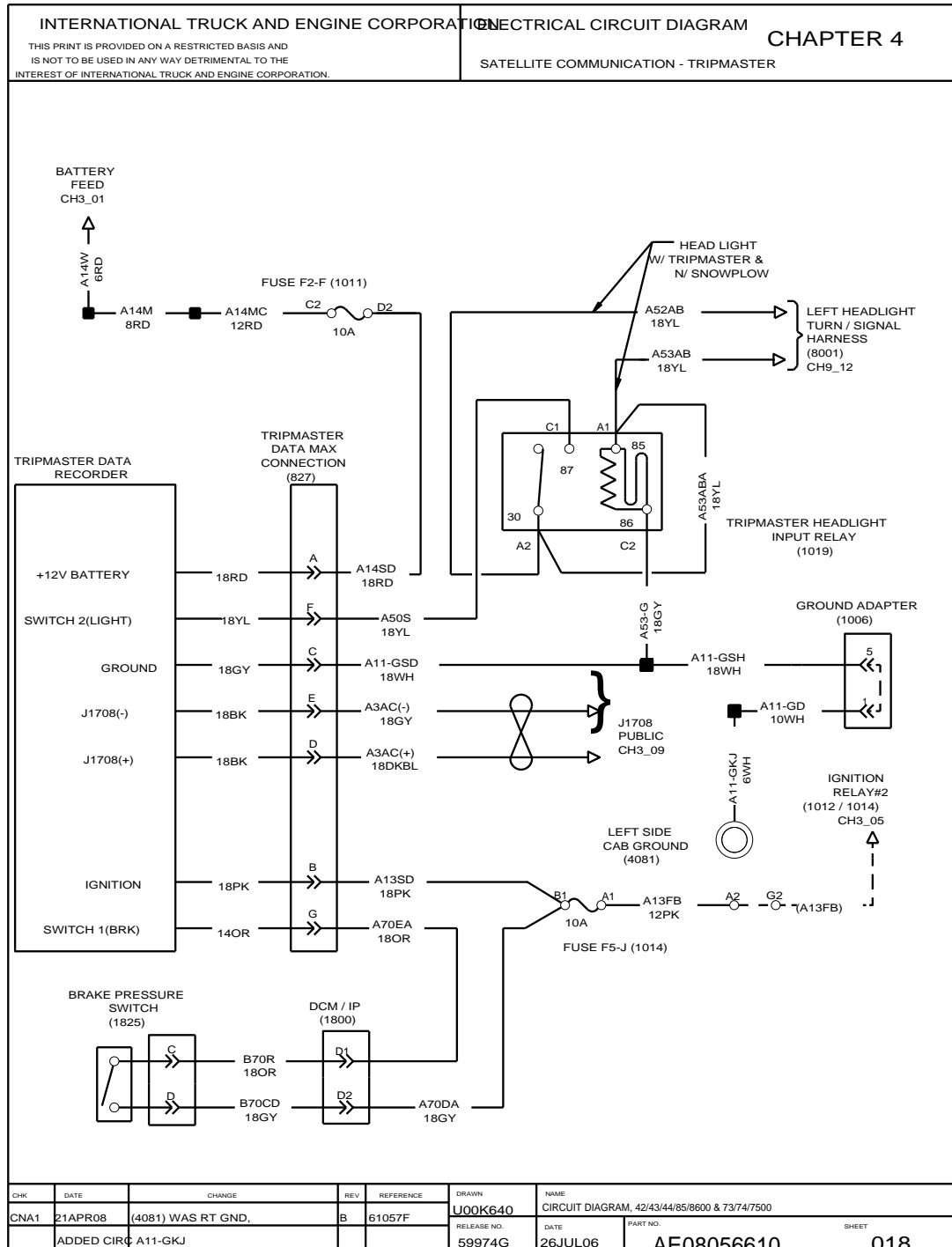
4.19. ROOF AUXILIARY LOAD, P. 16



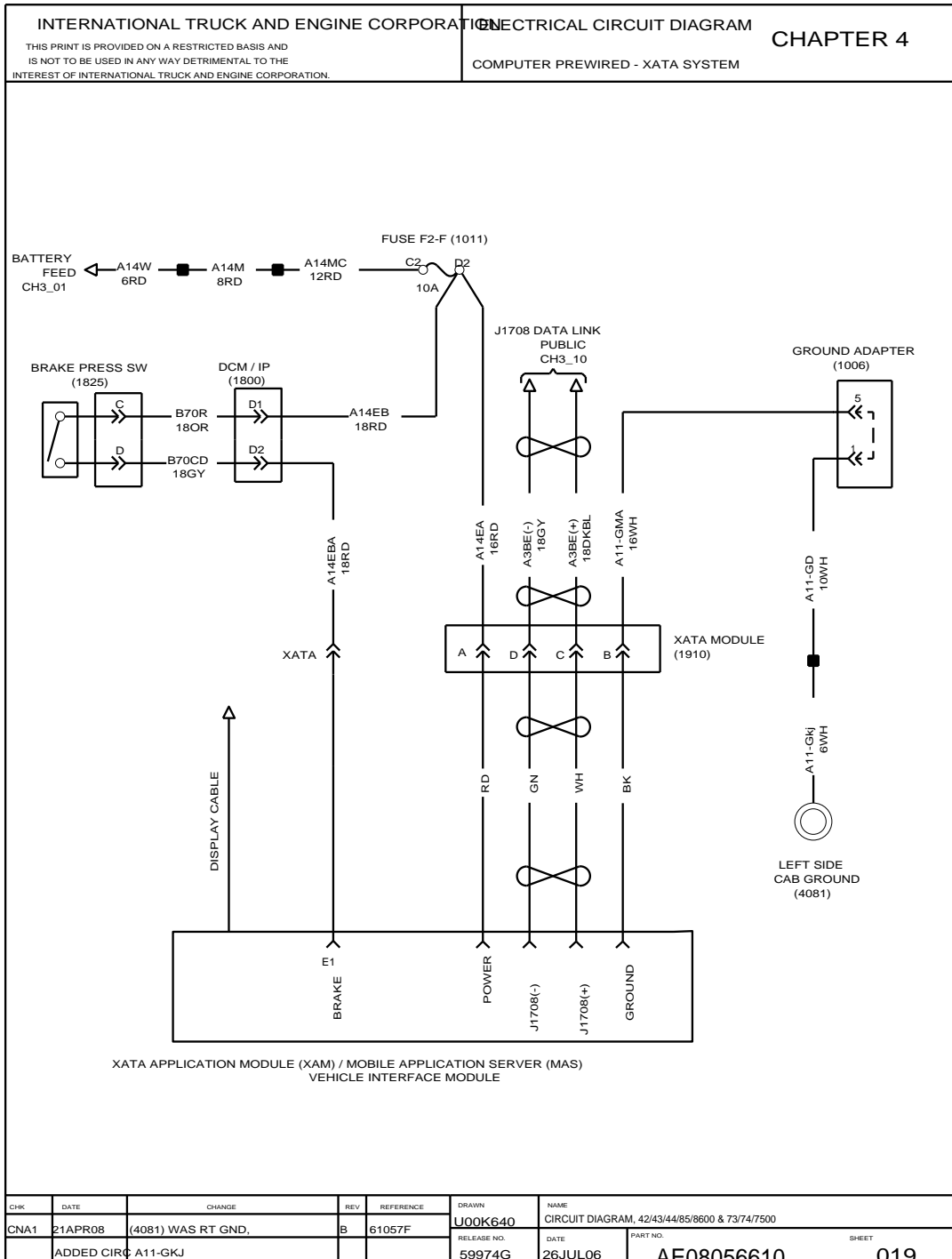
4.20. SATELLITE COMMUNICATION — QUALCOMM IMCT, P. 17



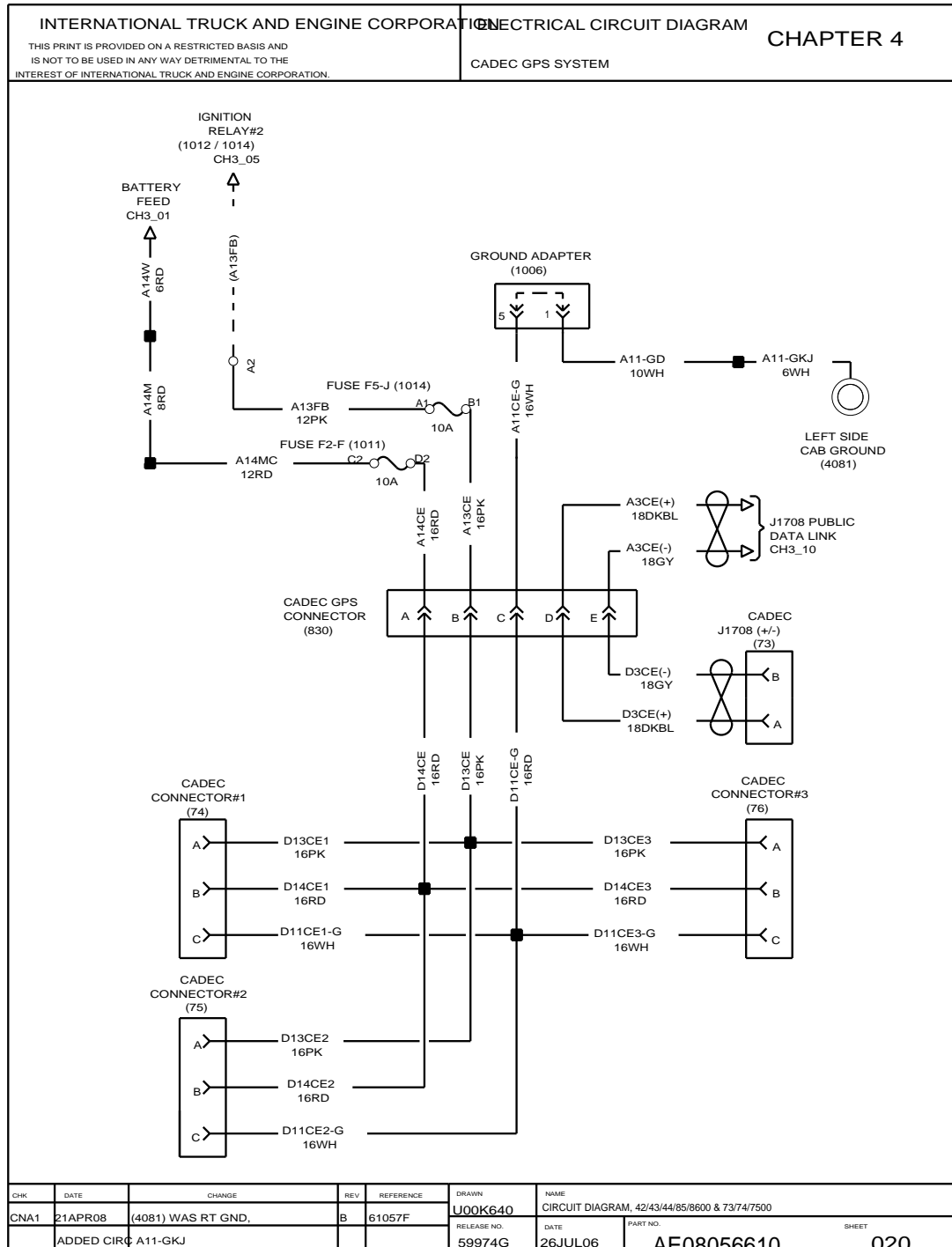
4.21. SATELLITE COMMUNICATION — TRIPMASTER, P. 18



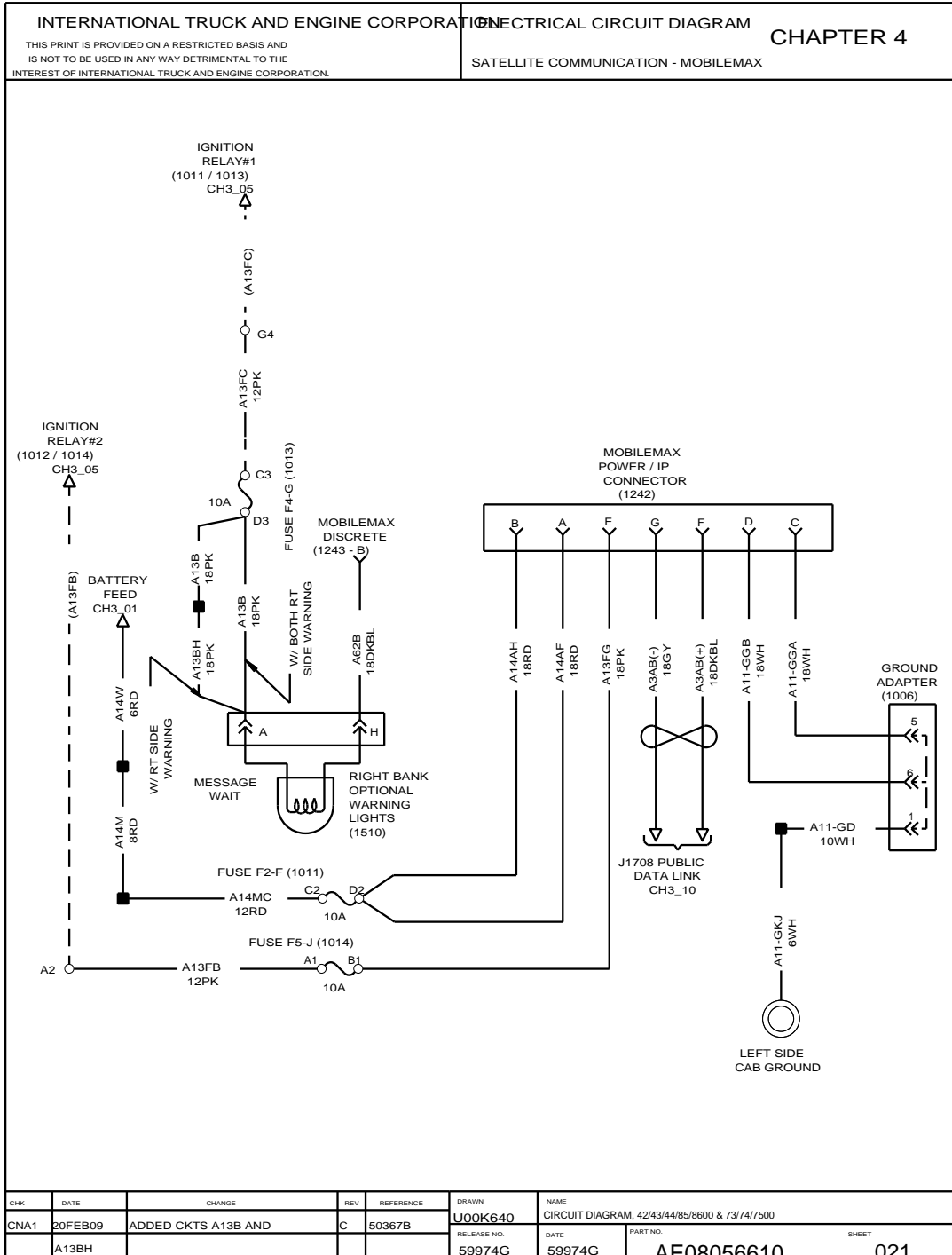
4.22. COMPUTER PREWIRED — XATA SYSTEM, P. 19



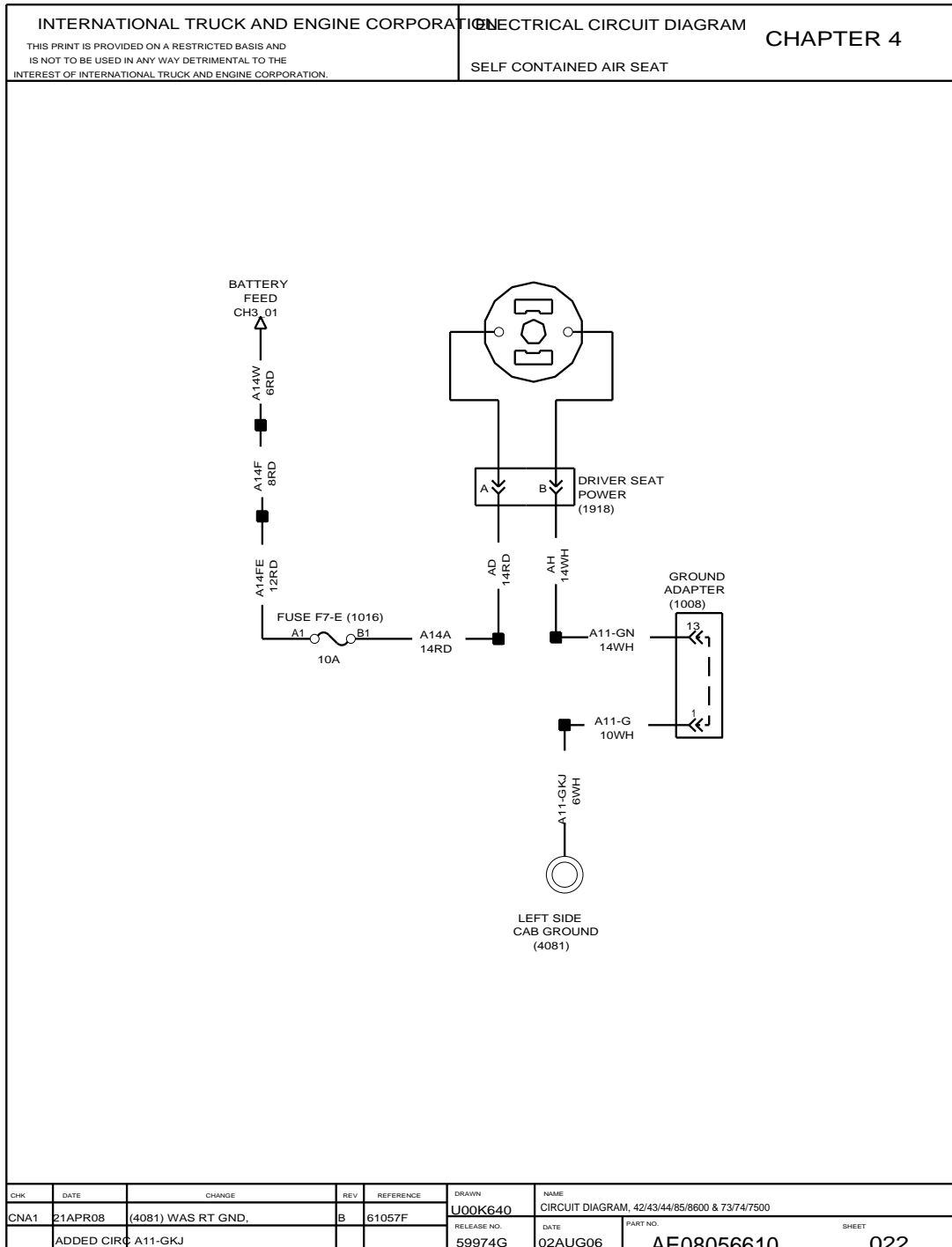
4.23. CADEC GPS SYSTEM, P. 20



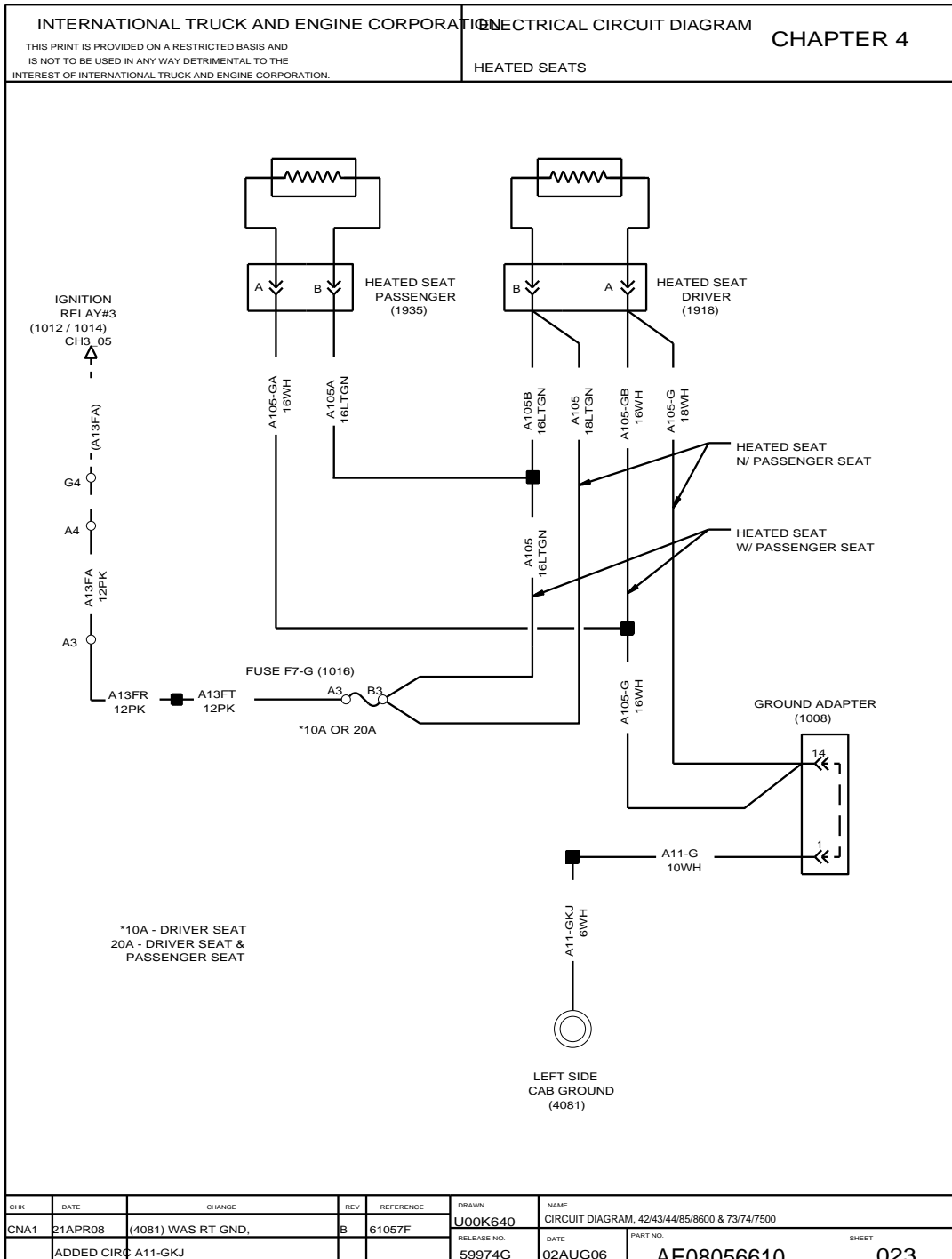
4.24. SATELLITE COMMUNICATION — MOBILEMAX, P. 21



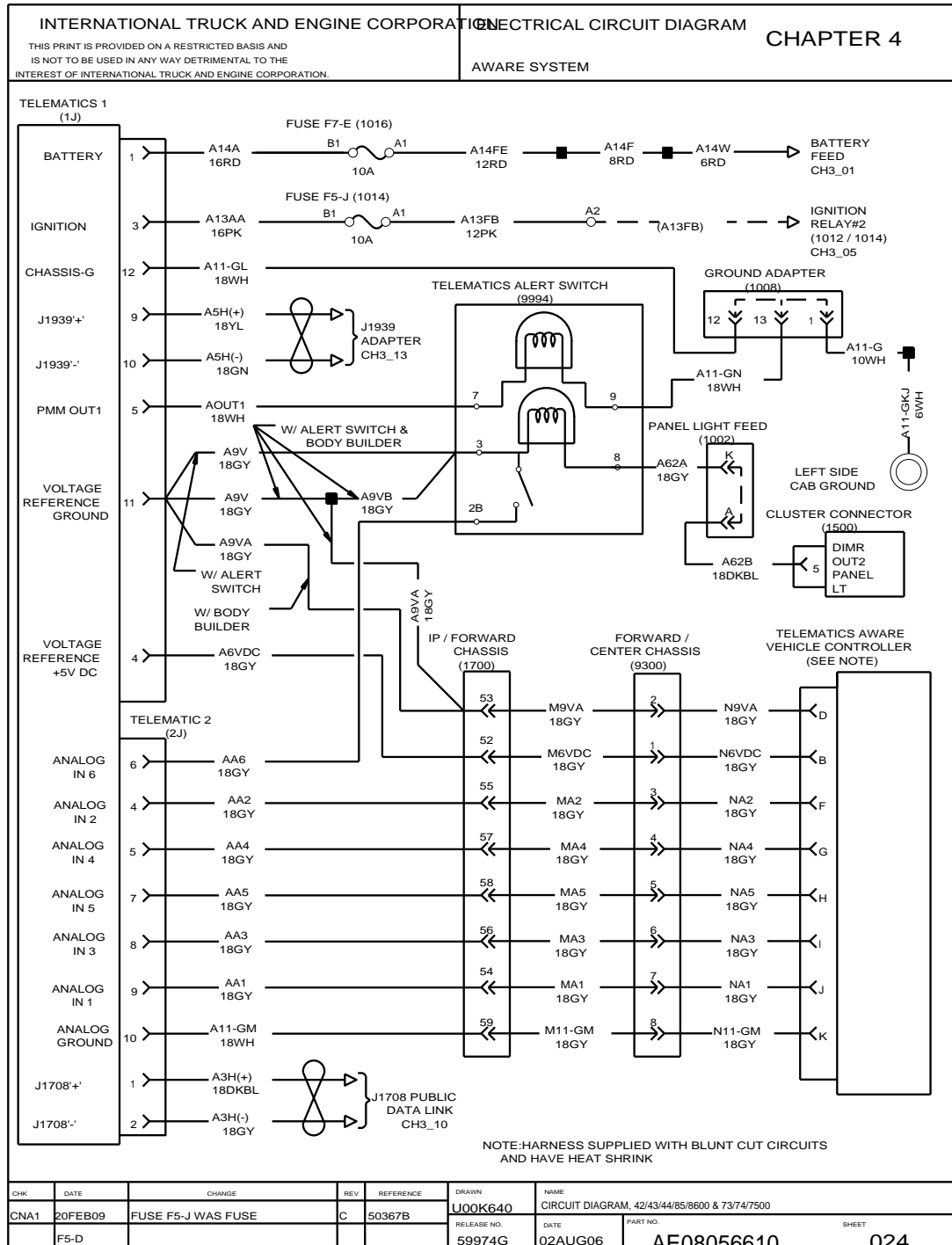
4.25. SELF CONTAINED AIR SEAT, P. 22



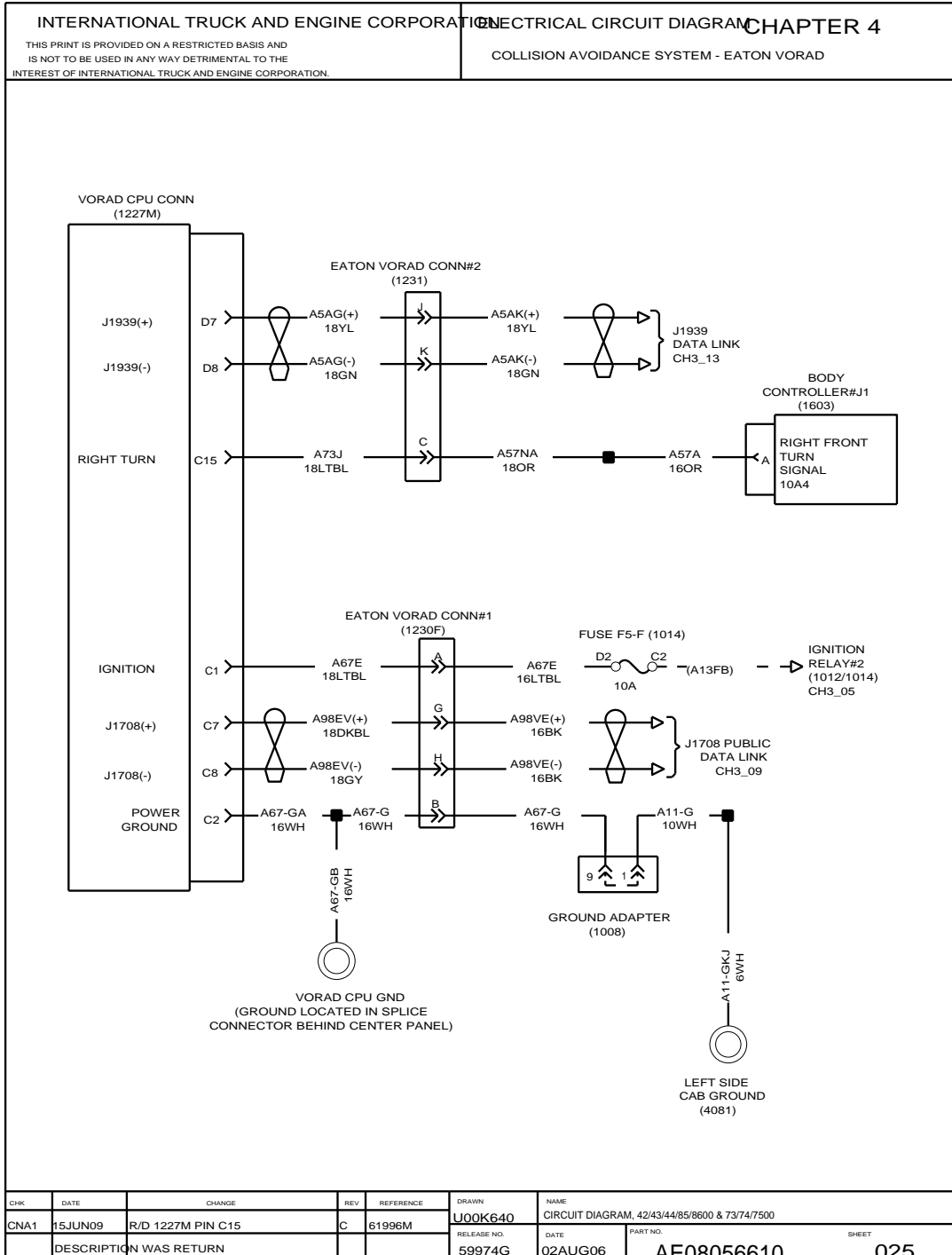
4.26. HEATED SEATS, P. 23



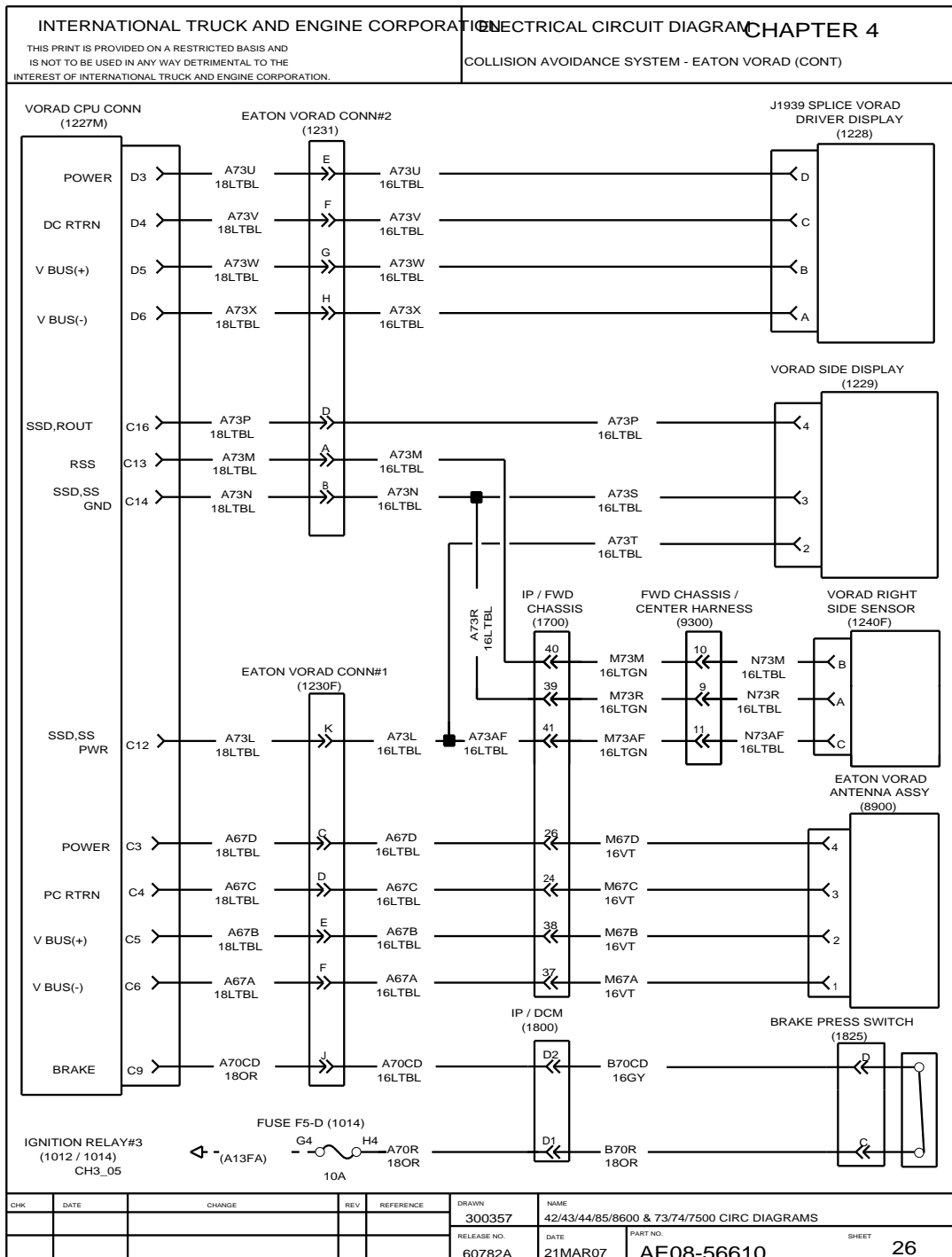
4.27. AWARE SYSTEM, P. 24



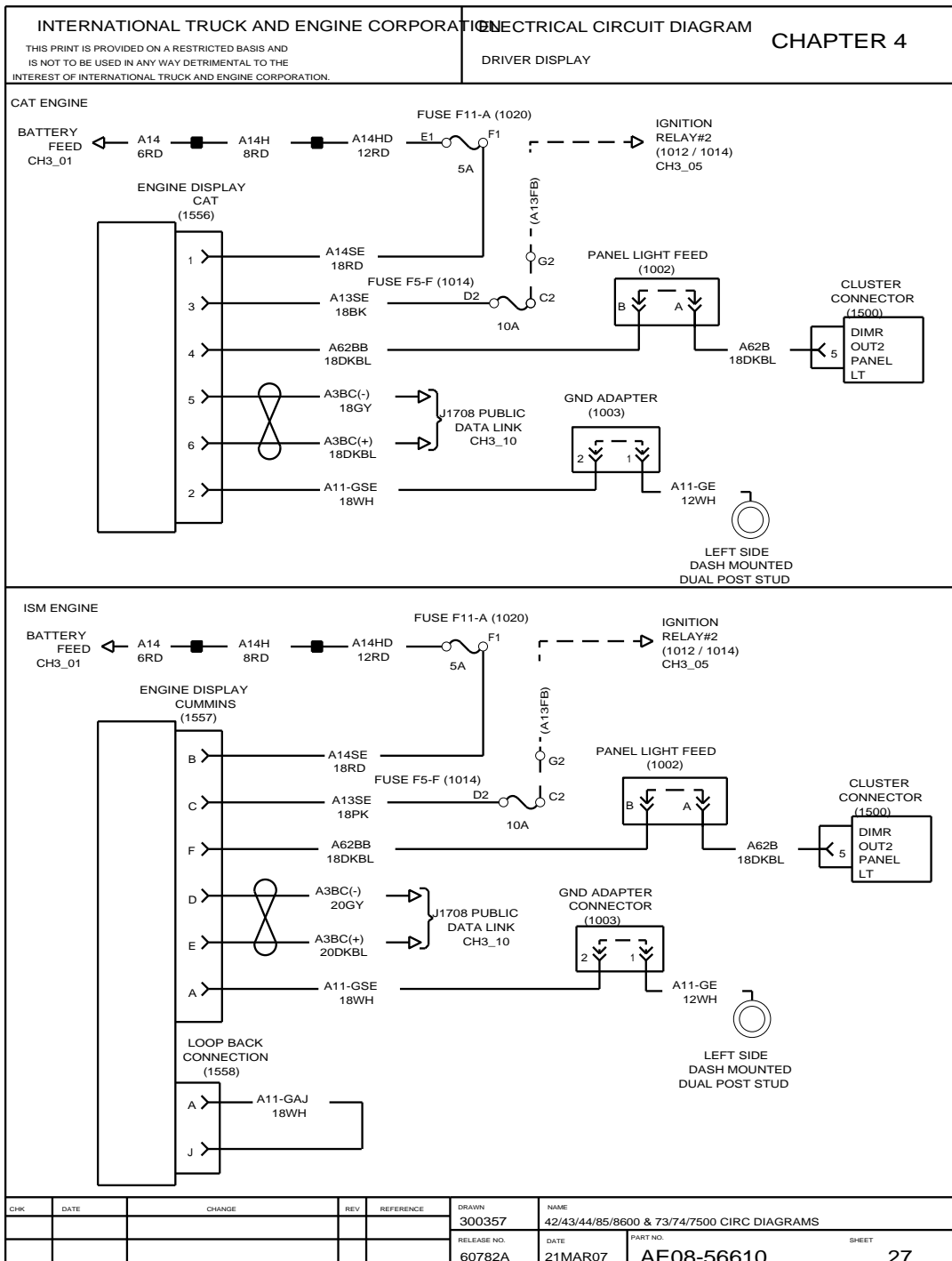
4.28. EATON VORAD COLLISION AVOIDANCE SYSTEM, P. 25



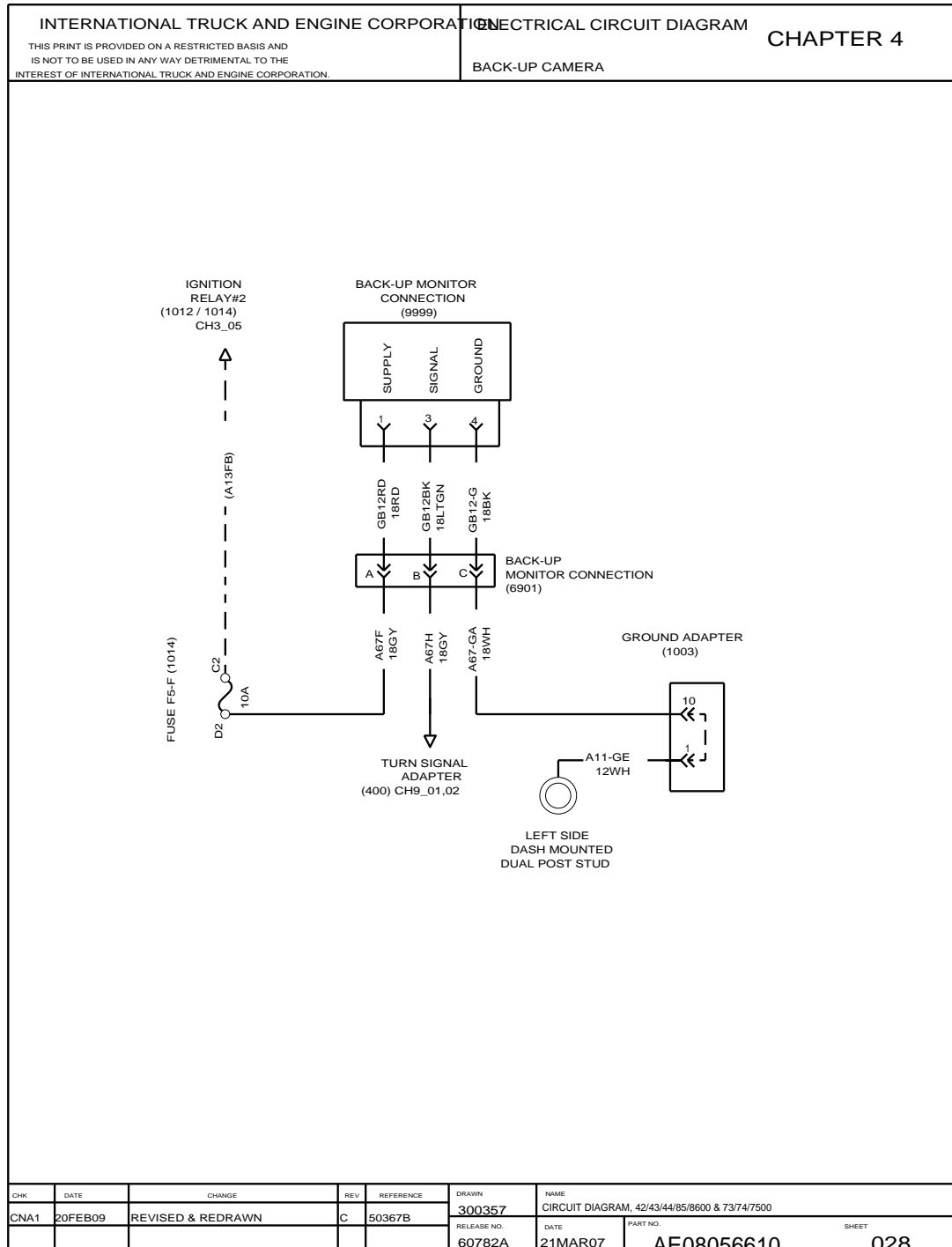
4.29. EATON VORAD COLLISION AVOIDANCE SYSTEM, P. 26



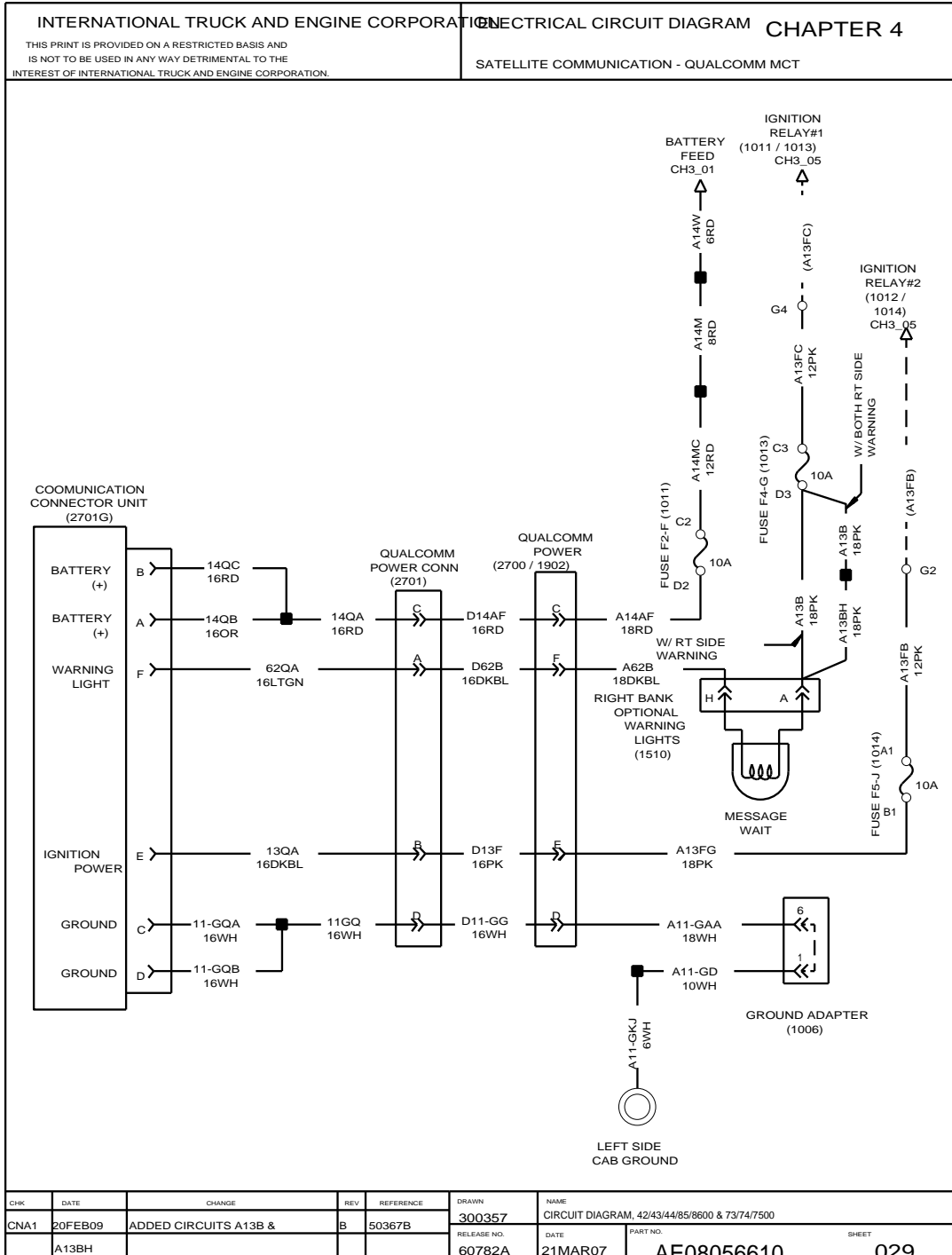
4.30. DRIVER DISPLAY, P. 27



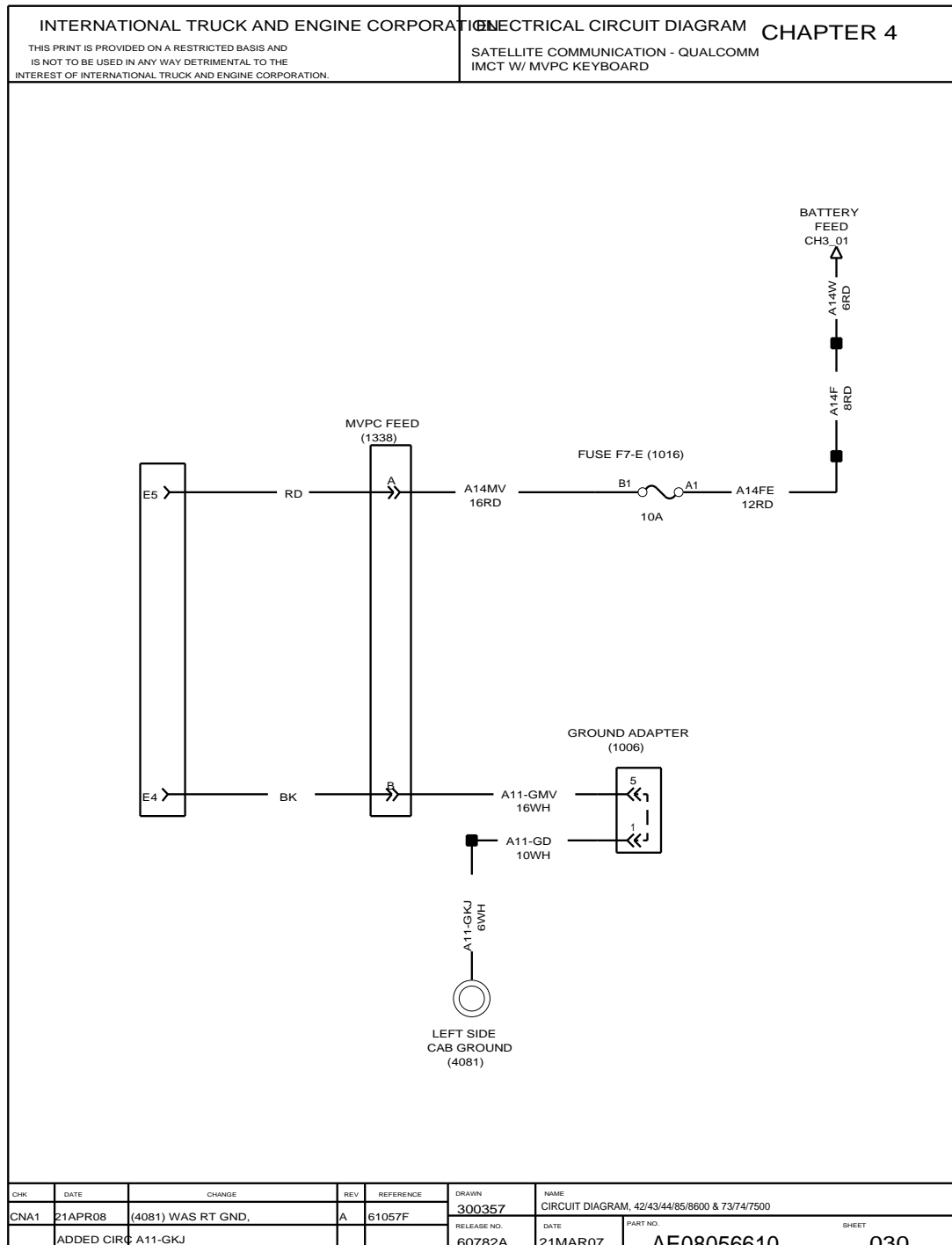
4.31. BACK-UP CAMERA, P. 28



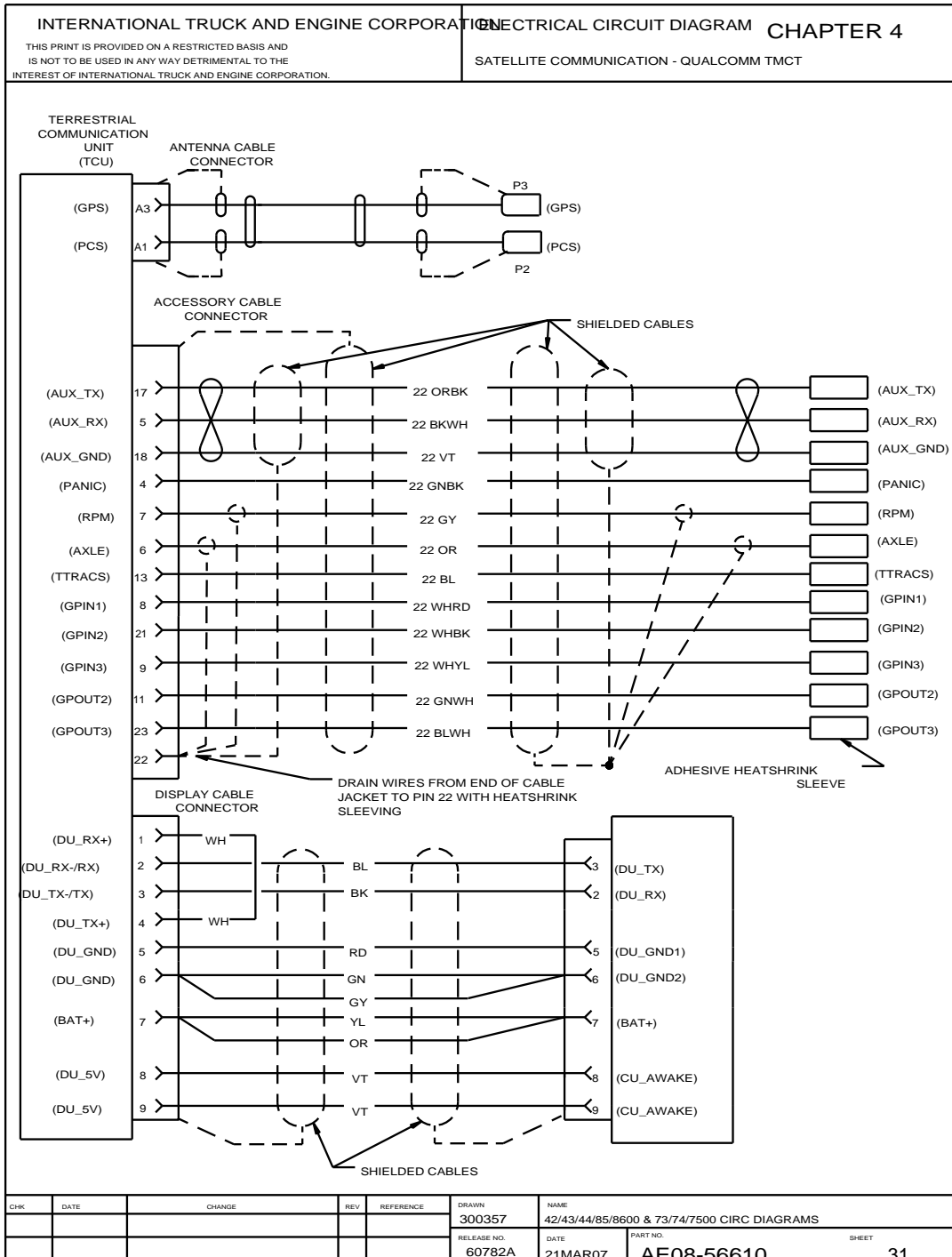
4.32. SATELLITE COMMUNICATION — QUALCOMM MCT, P. 29



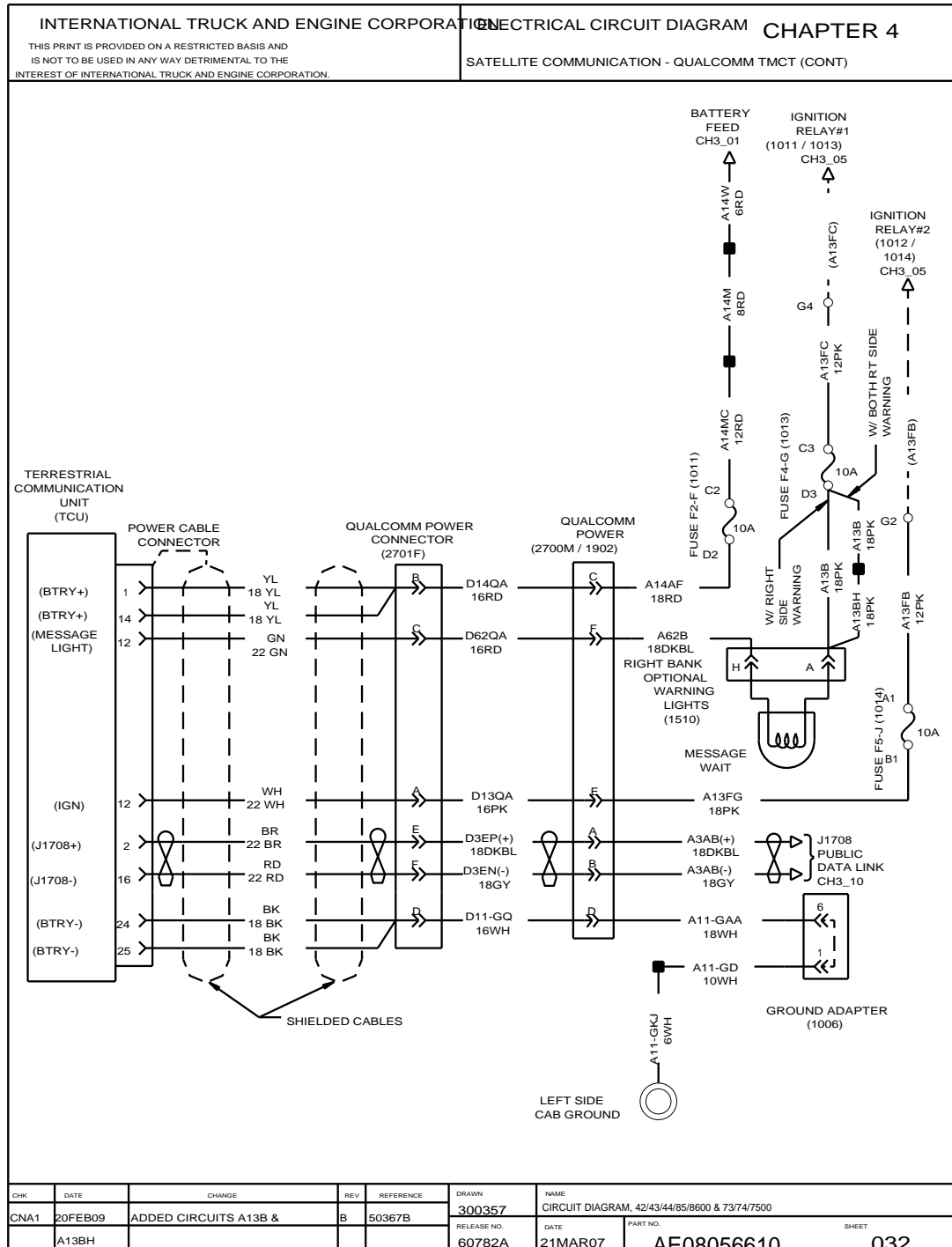
4.33. SATELLITE COMMUNICATION — QUALCOMM MCT WITH MVPC KEYBOARD,
 P. 30



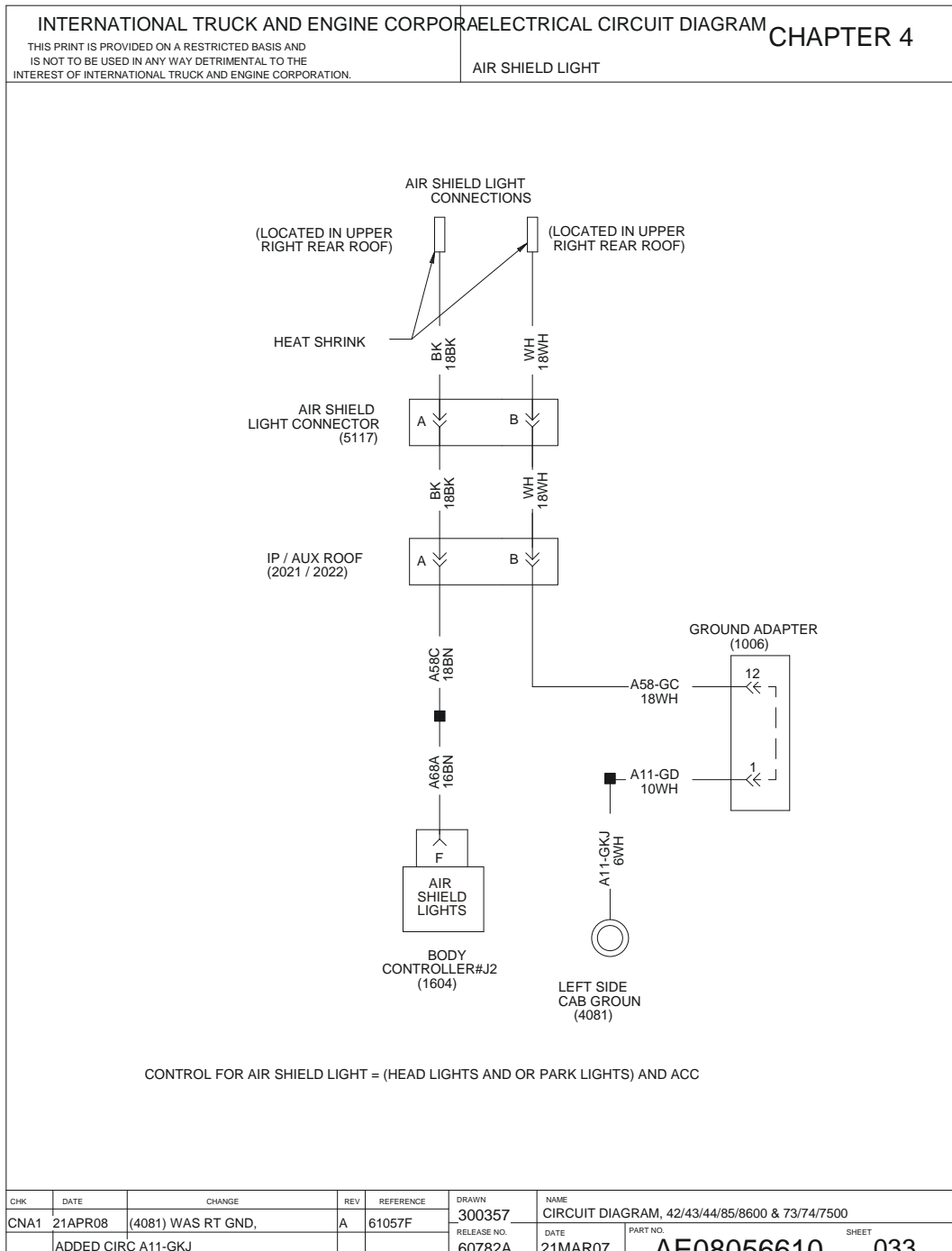
4.34. SATELLITE COMMUNICATION — QUALCOMM TMCT, P. 31



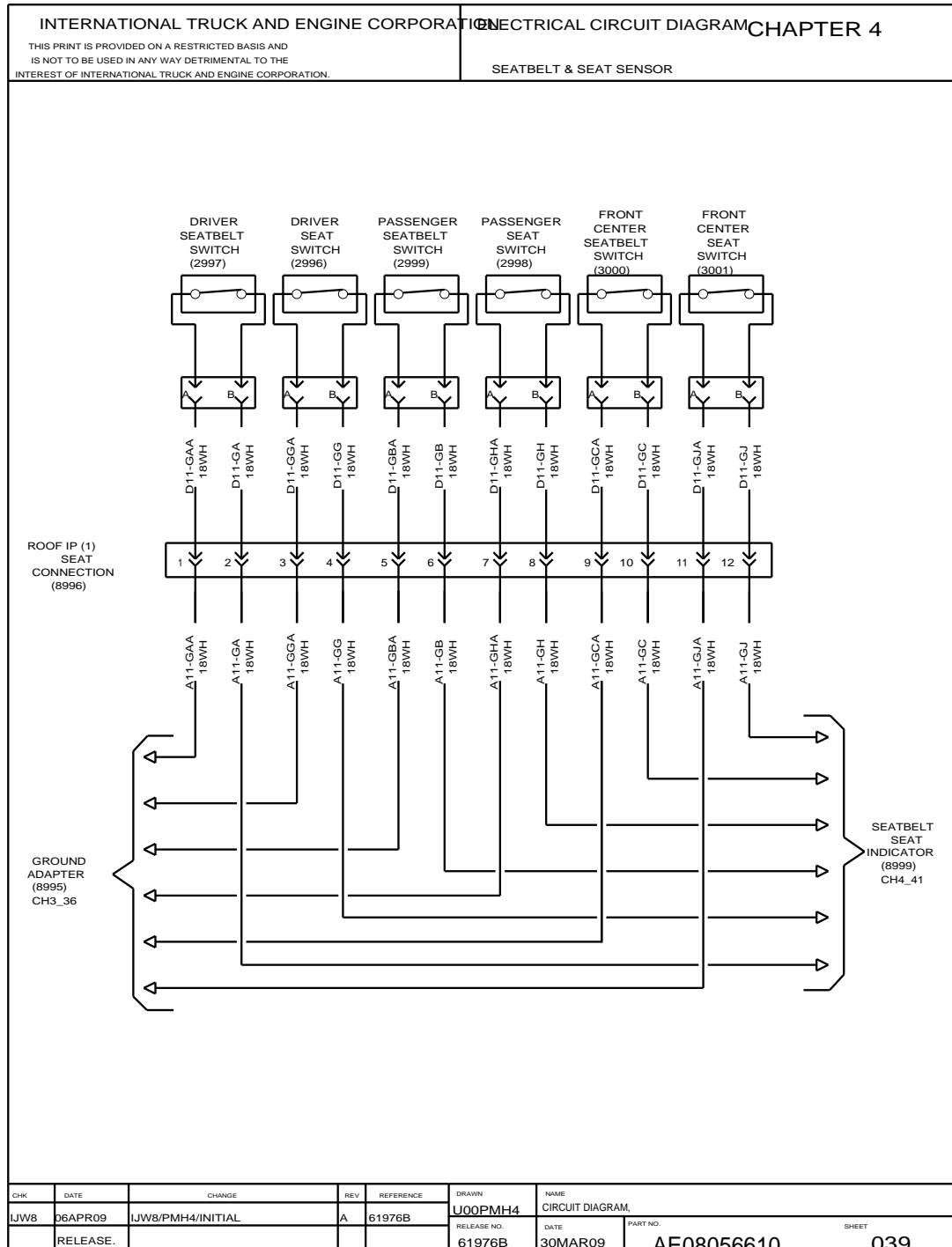
4.35. SATELLITE COMMUNICATION — QUALCOMM TMCT, P. 32



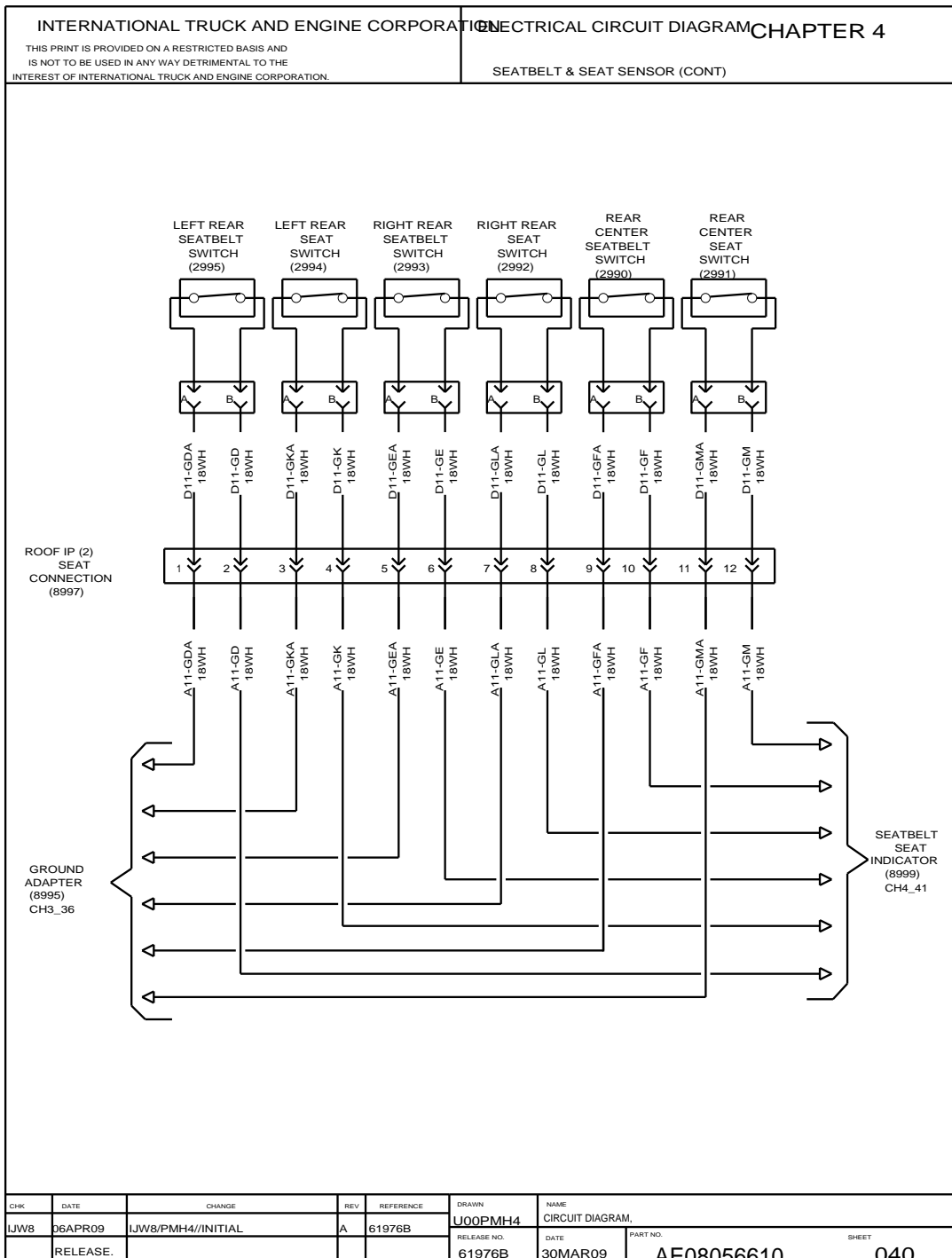
4.36. AIR SHIELD LIGHT, P. 33



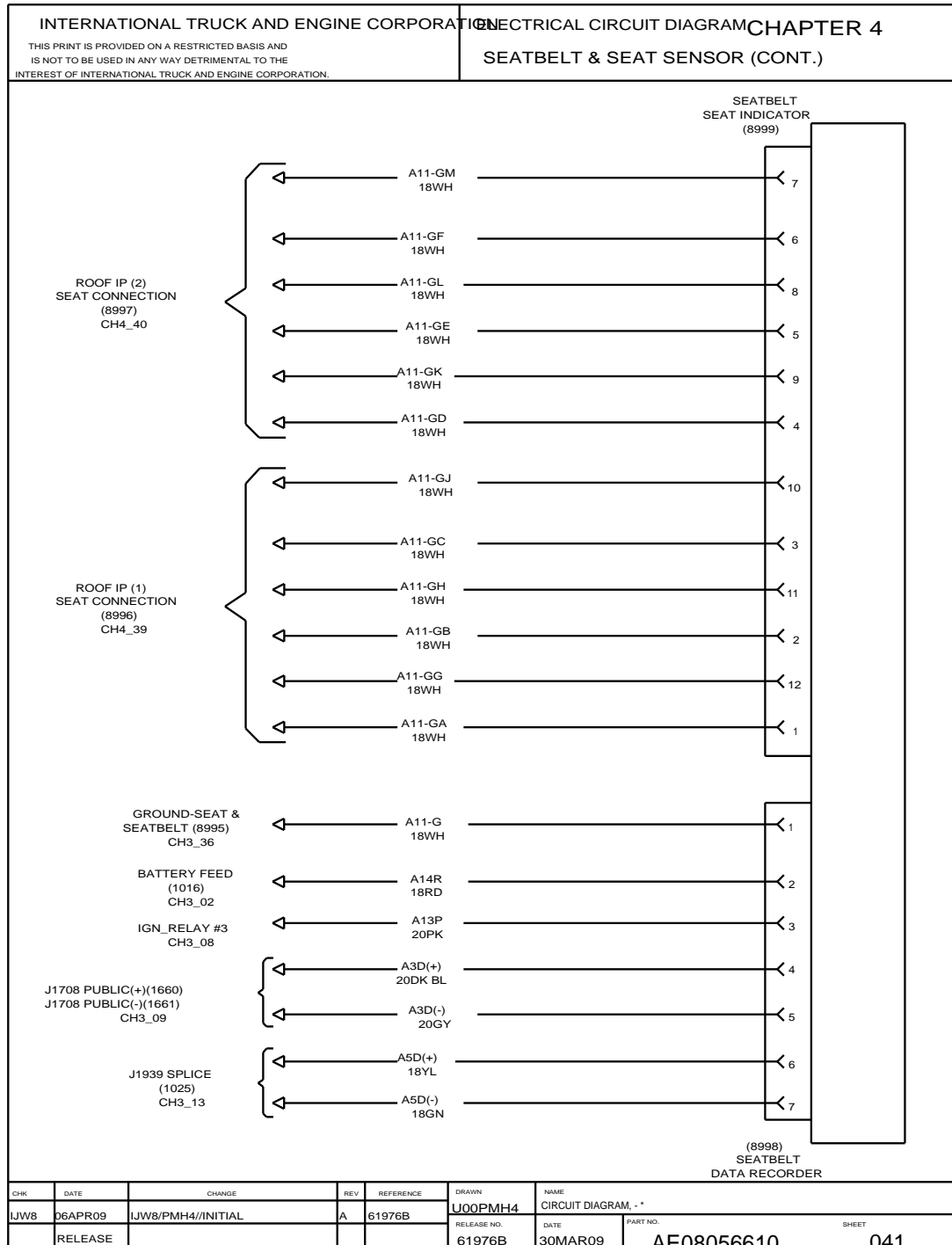
4.37. SEATBELT AND SEAT SENSOR, P. 39



4.38. SEATBELT AND SEAT SENSOR, P. 40

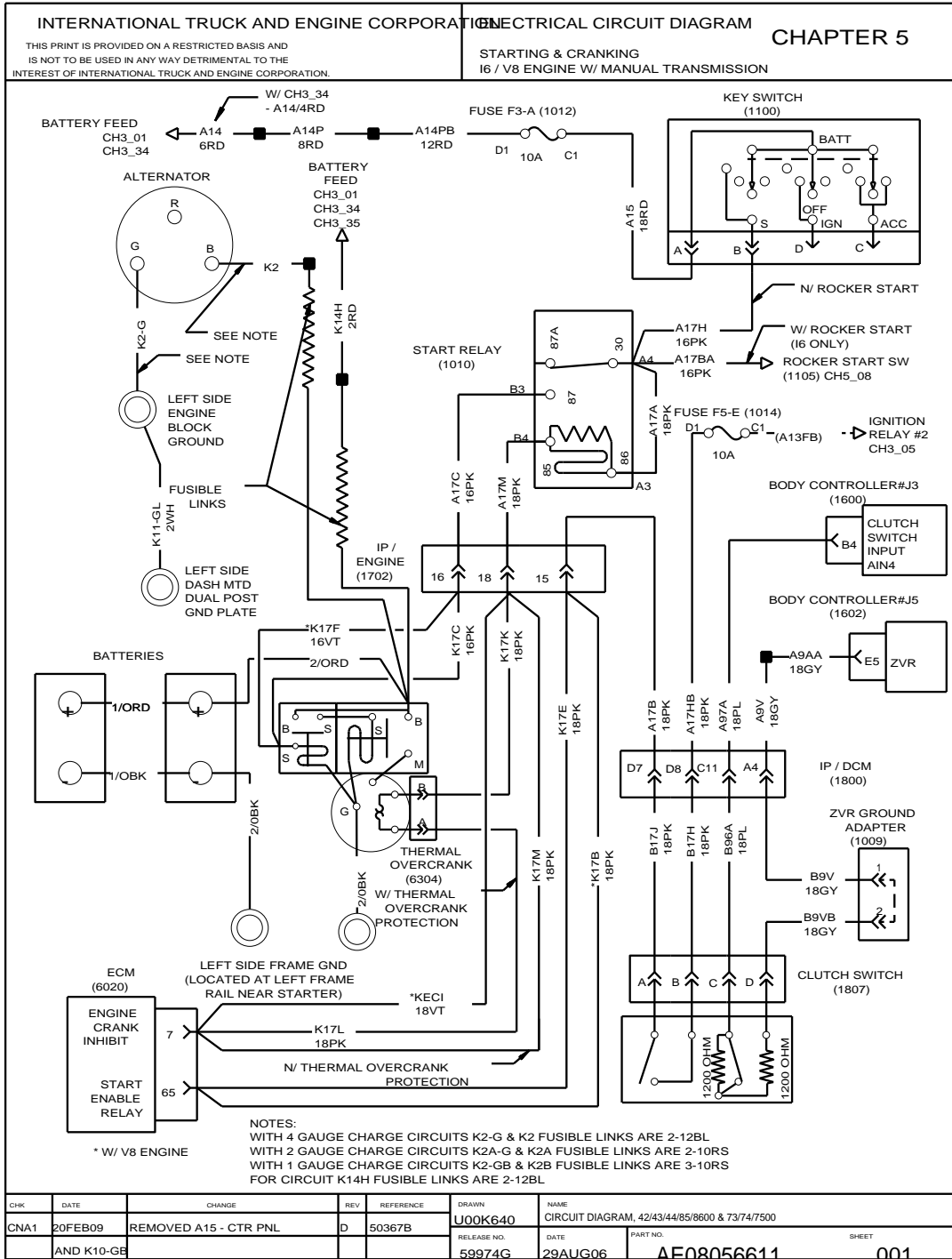


4.39. SEATBELT AND SEAT SENSOR, P. 41

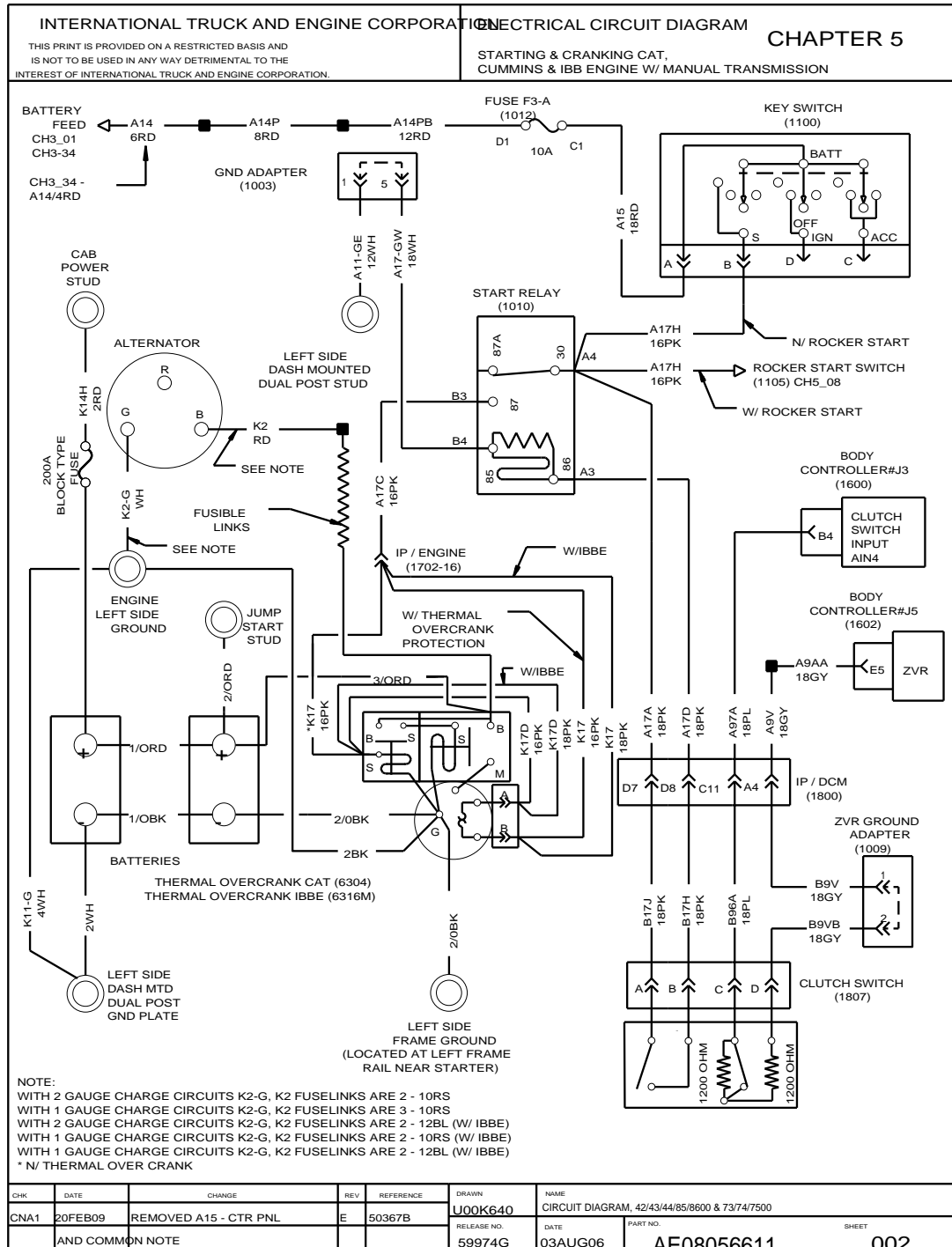


5. 12V CHARGING + CRANKING SYSTEM (CHAPTER 5)

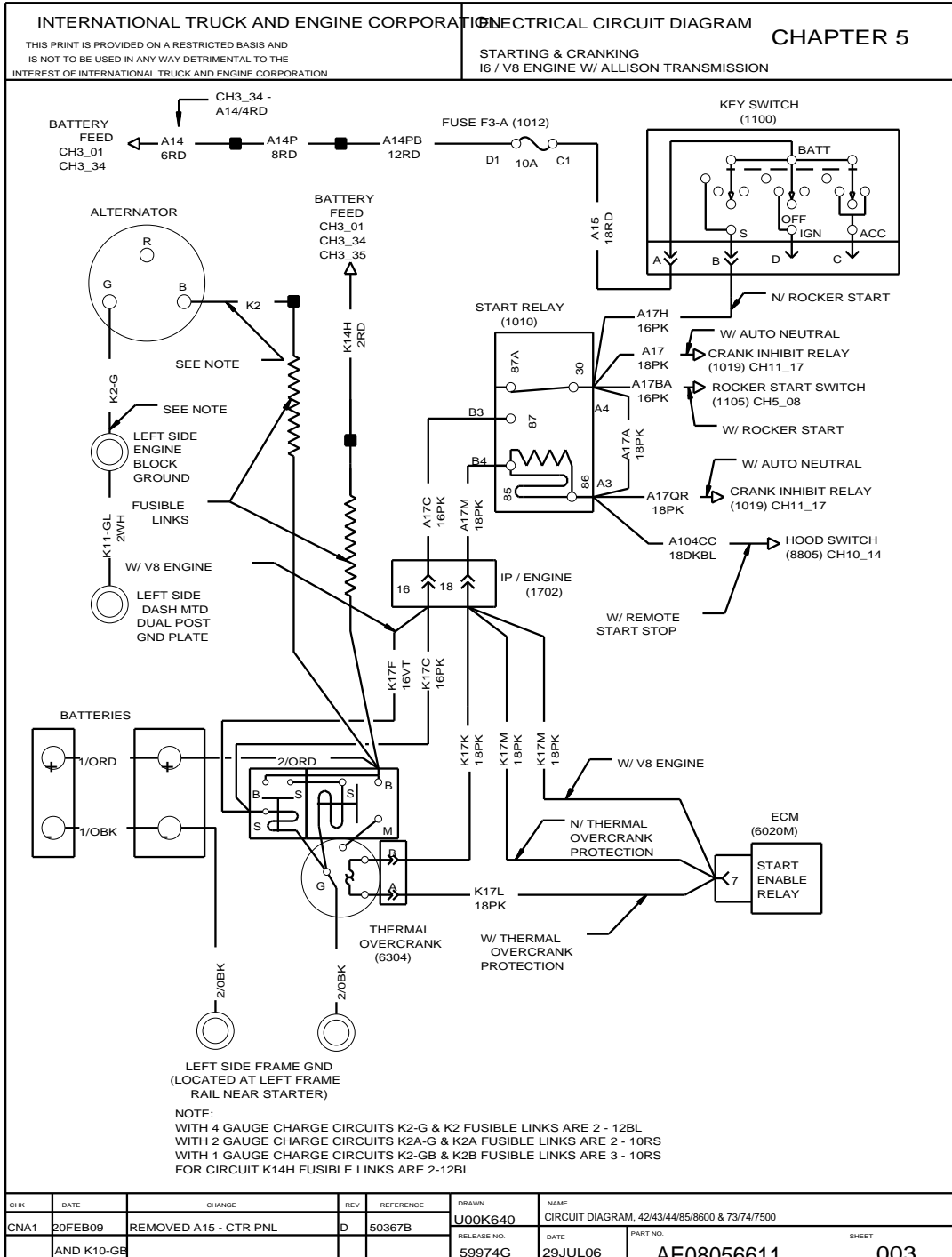
5.1. I6 / V8 ENGINES WITH MANUAL TRANSMISSION, P. 1



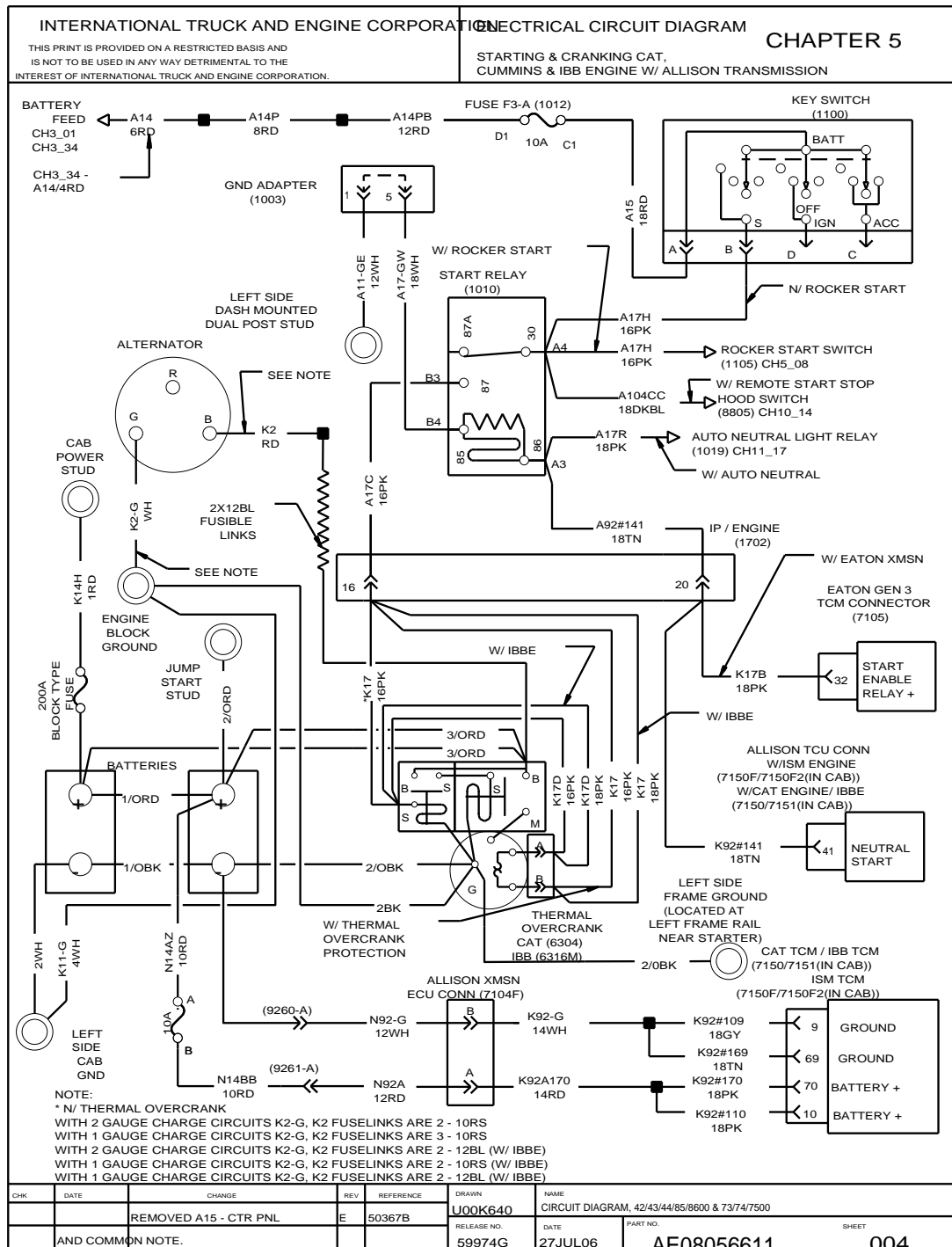
5.2. CAT, CUMMINS AND IBB ENGINES WITH MANUAL TRANSMISSION, P. 2



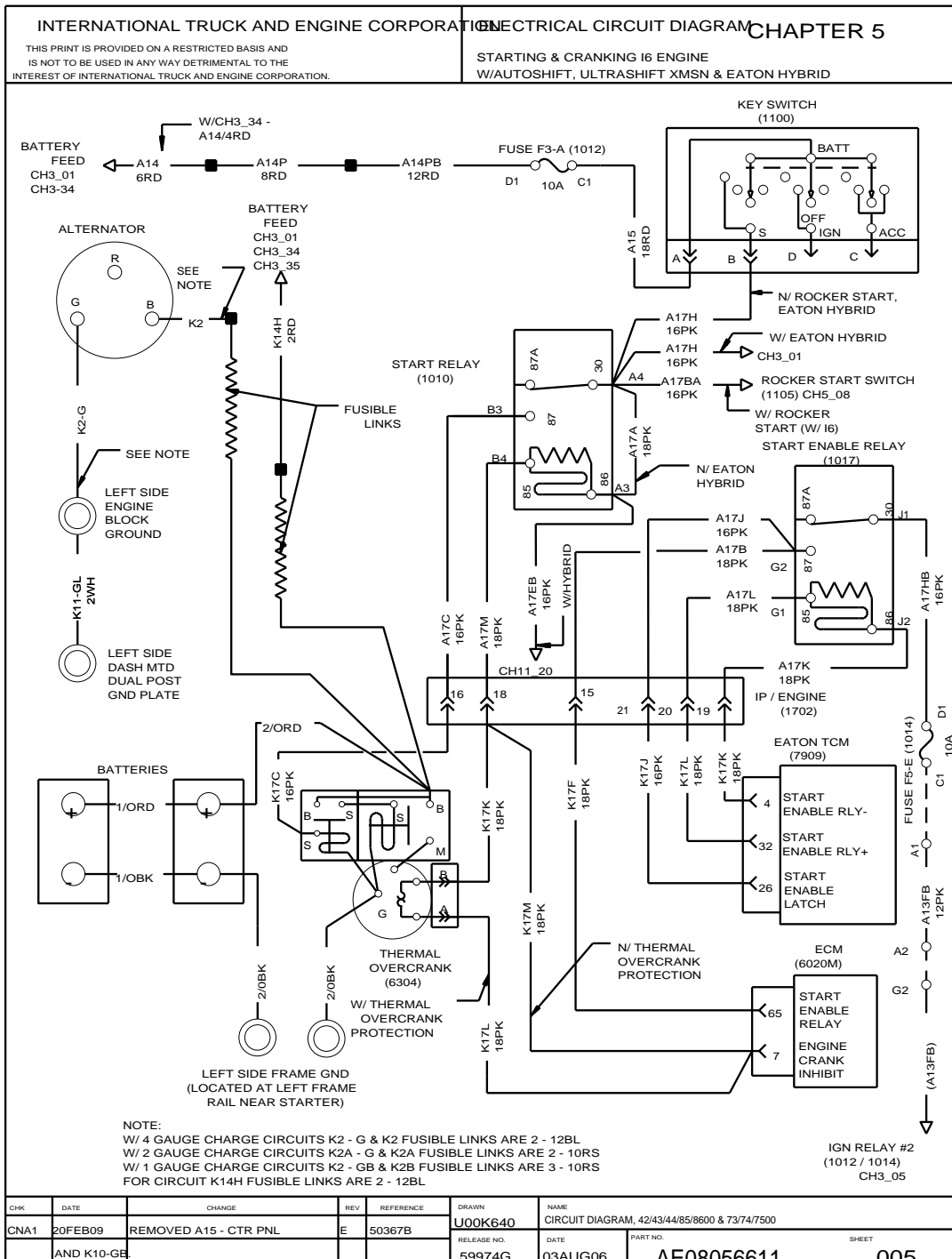
5.3. 16 / V8 ENGINES WITH ALLISON TRANSMISSION, P. 3



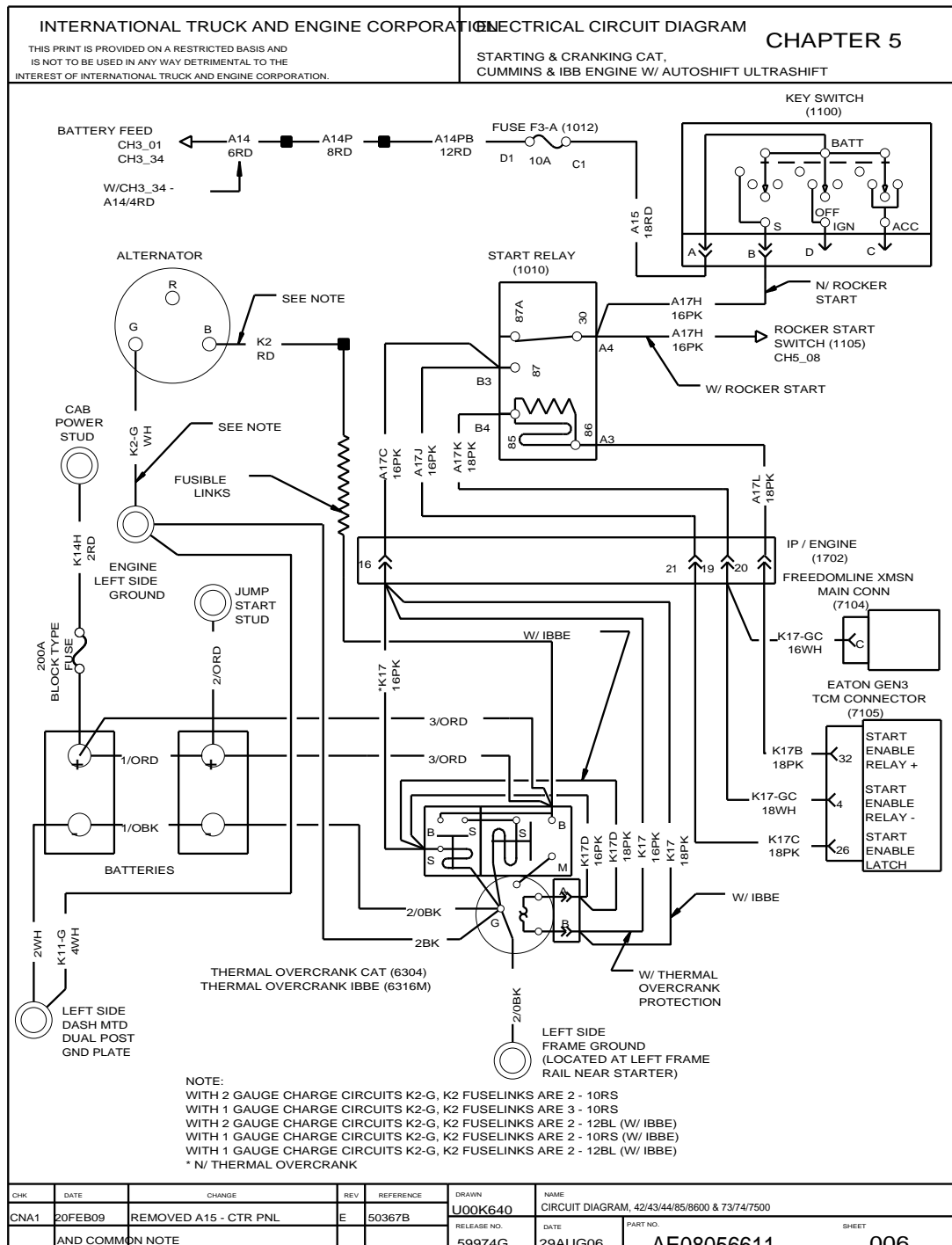
5.4. CAT, CUMMINS AND IBB ENGINES WITH ALLISON TRANSMISSION, P. 4



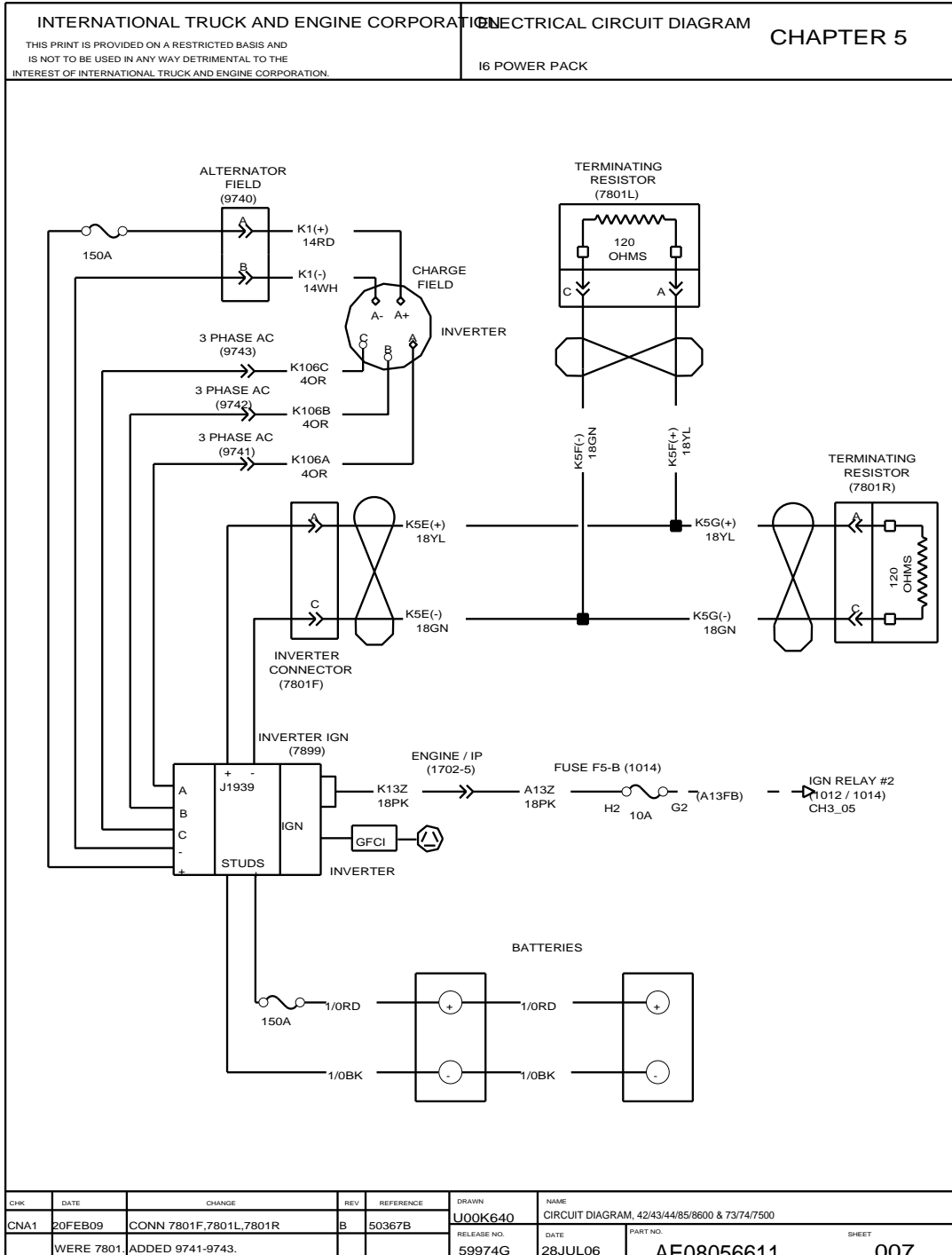
5.5. 16 ENGINE WITH AUTOSHIFT, ULTRASHIFT AND EATON HYBRID TRANSMISSION,
 P. 5



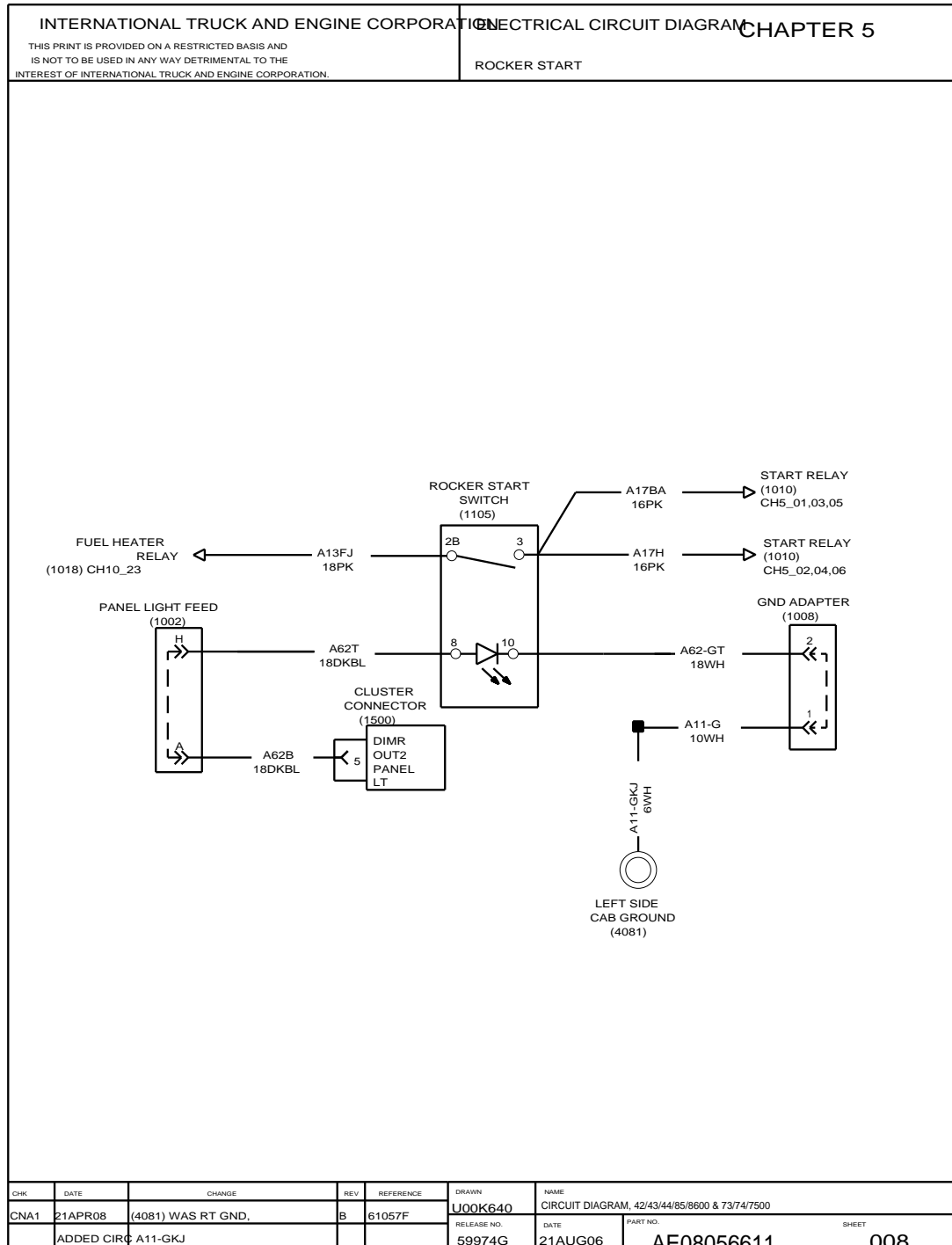
5.6. CAT, CUMMINS AND IBB ENGINES WITH AUTOSHIFT AND ULTRASHIFT TRANSMISSION, P. 6



5.7. I6 POWER PACK, P. 7

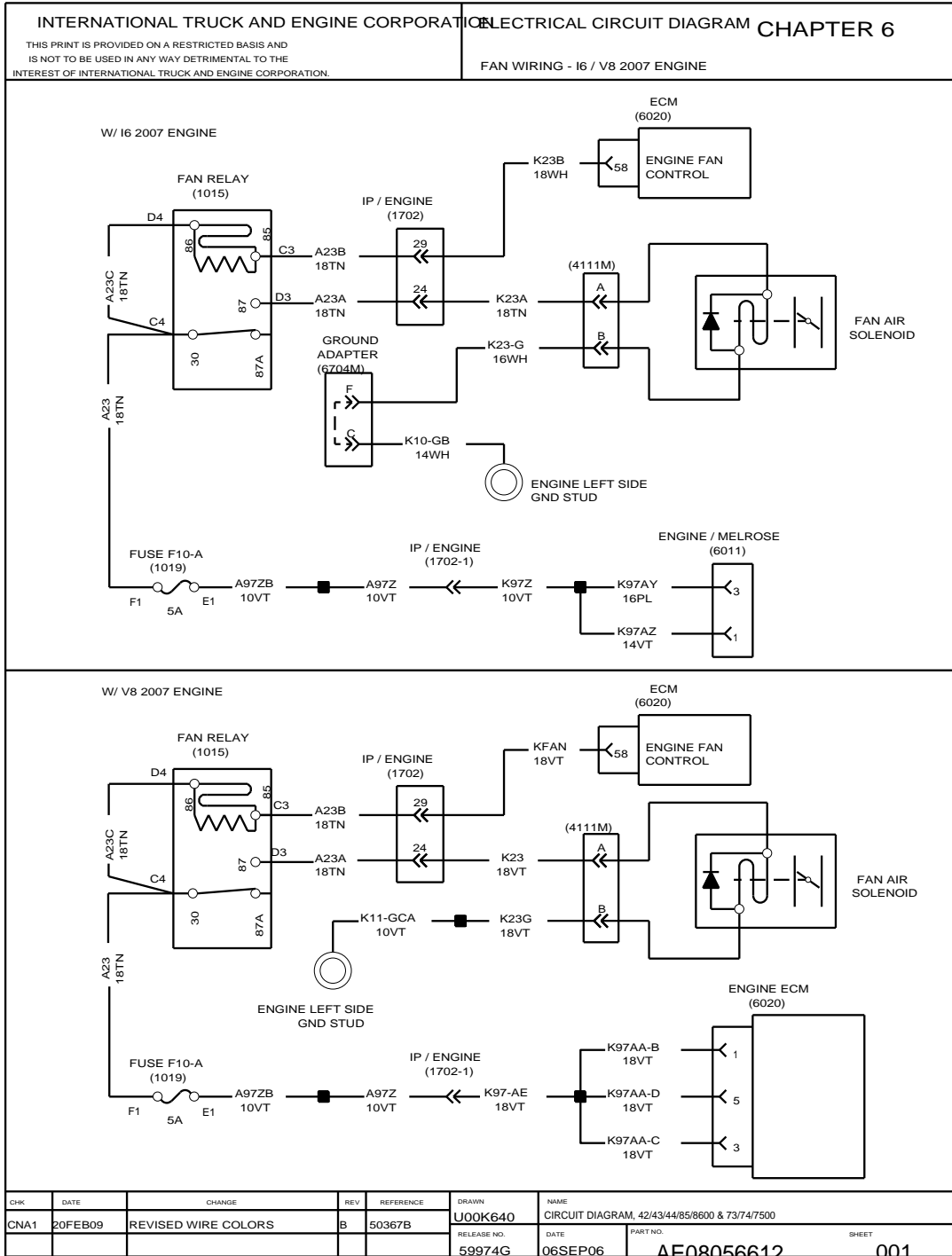


5.8. ROCKER START, P. 8

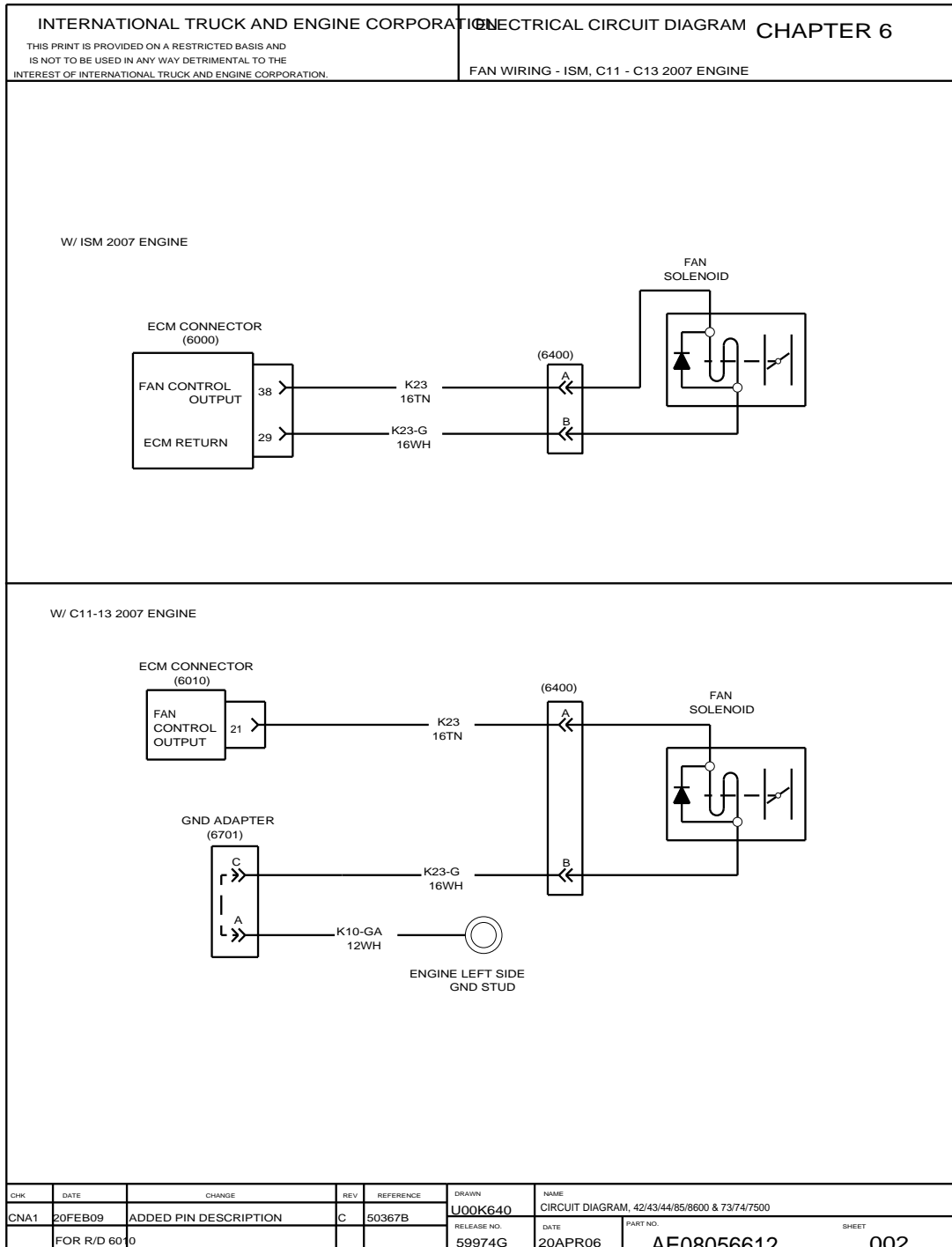


6. FANS AND ENGINE ACCESSORIES (CHAPTER 6)

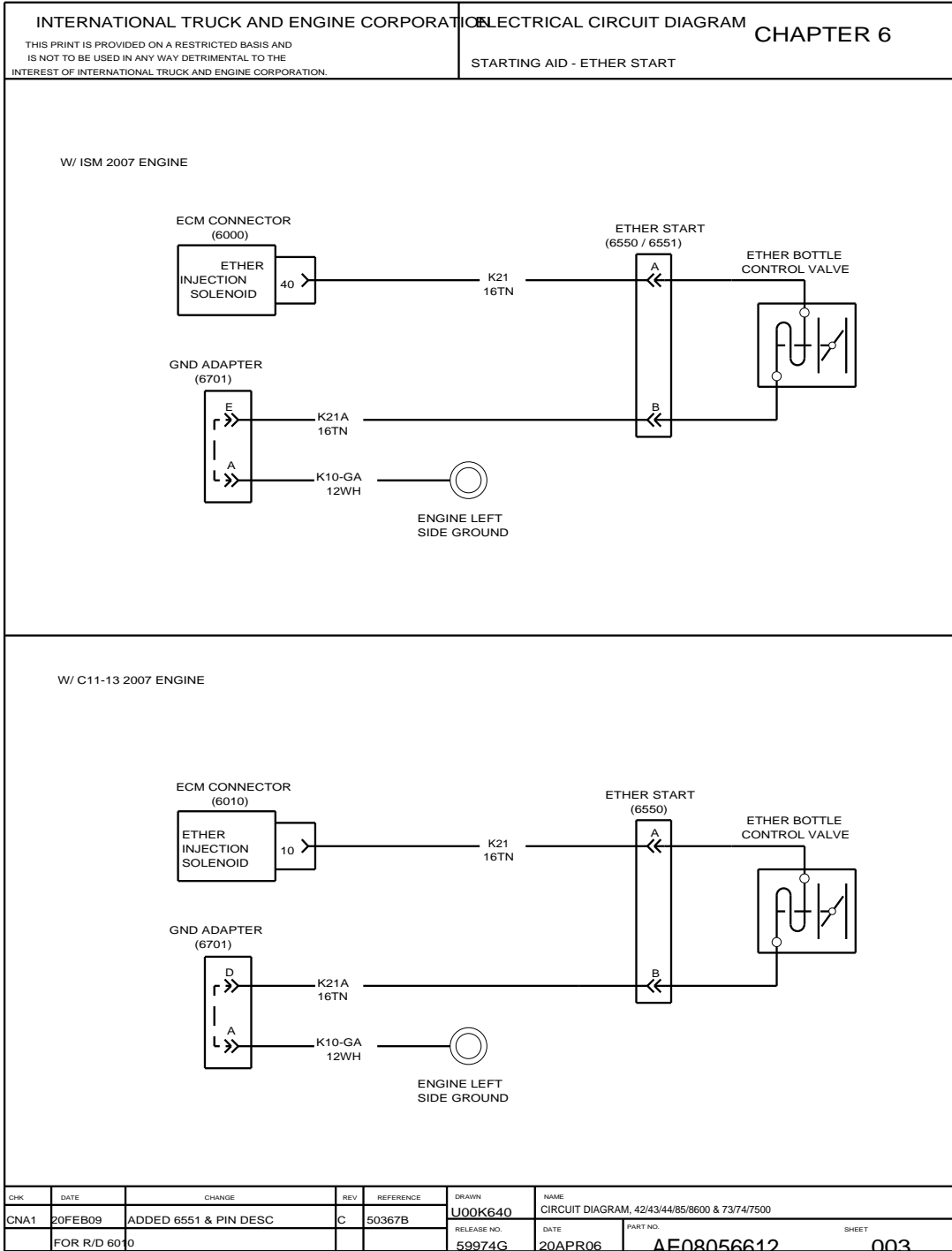
6.1. FAN WIRING, I6 / V8 2007 ENGINES, P. 1



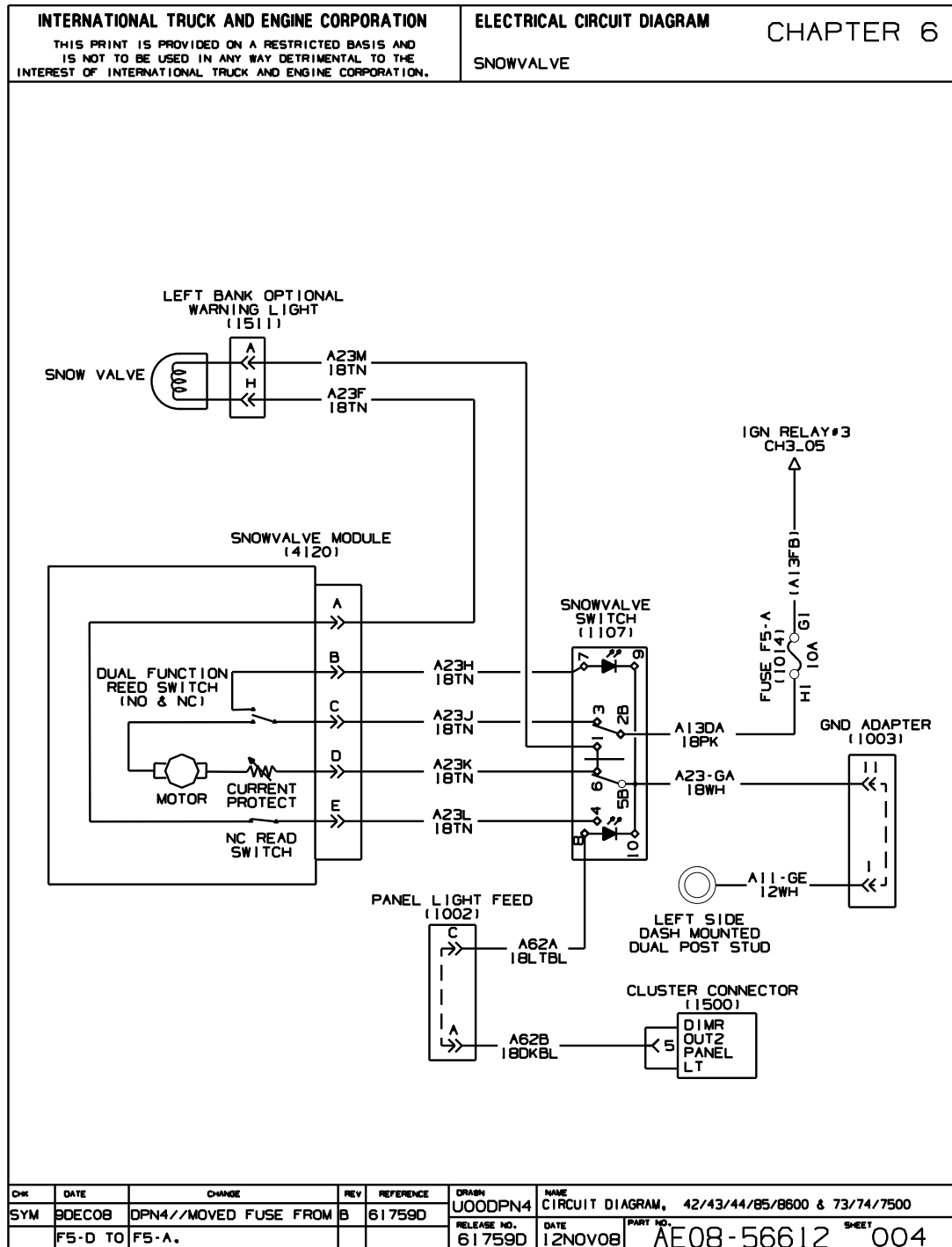
6.2. FAN WIRING, ISM, C11-C13 2007 ENGINES, P. 2



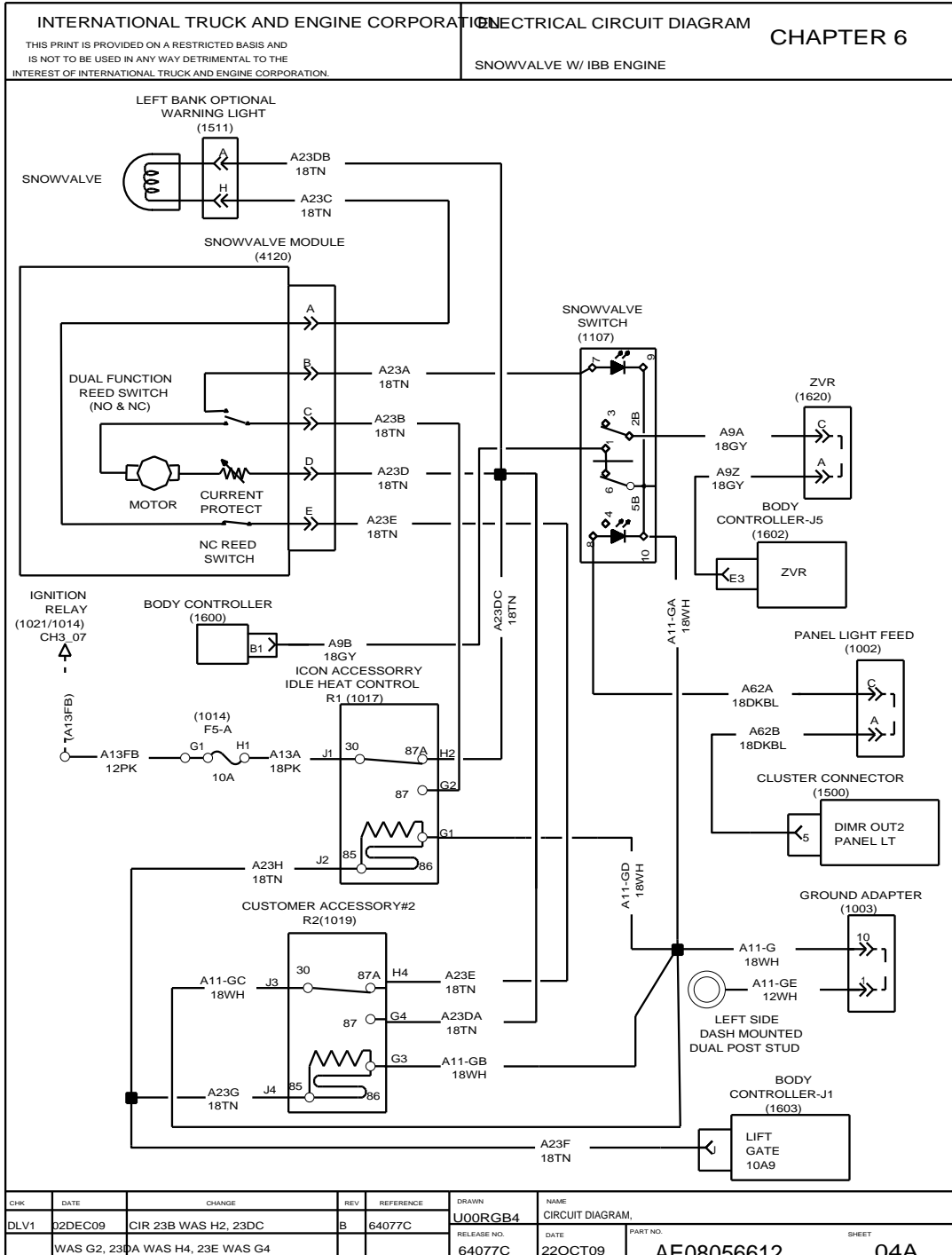
6.3. STARTING AID — ETHER START, P. 3



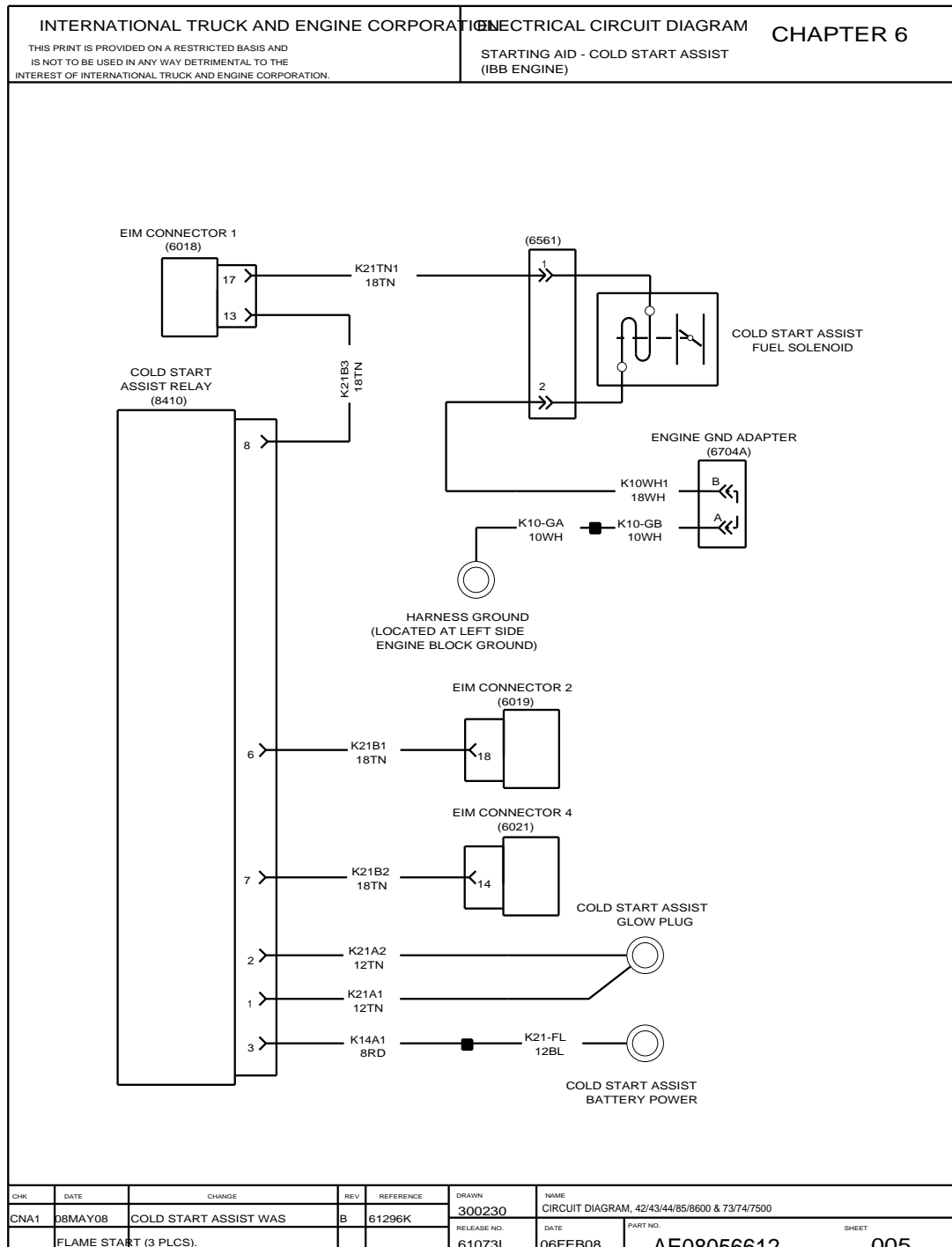
6.4. SNOW VALVE, P. 4



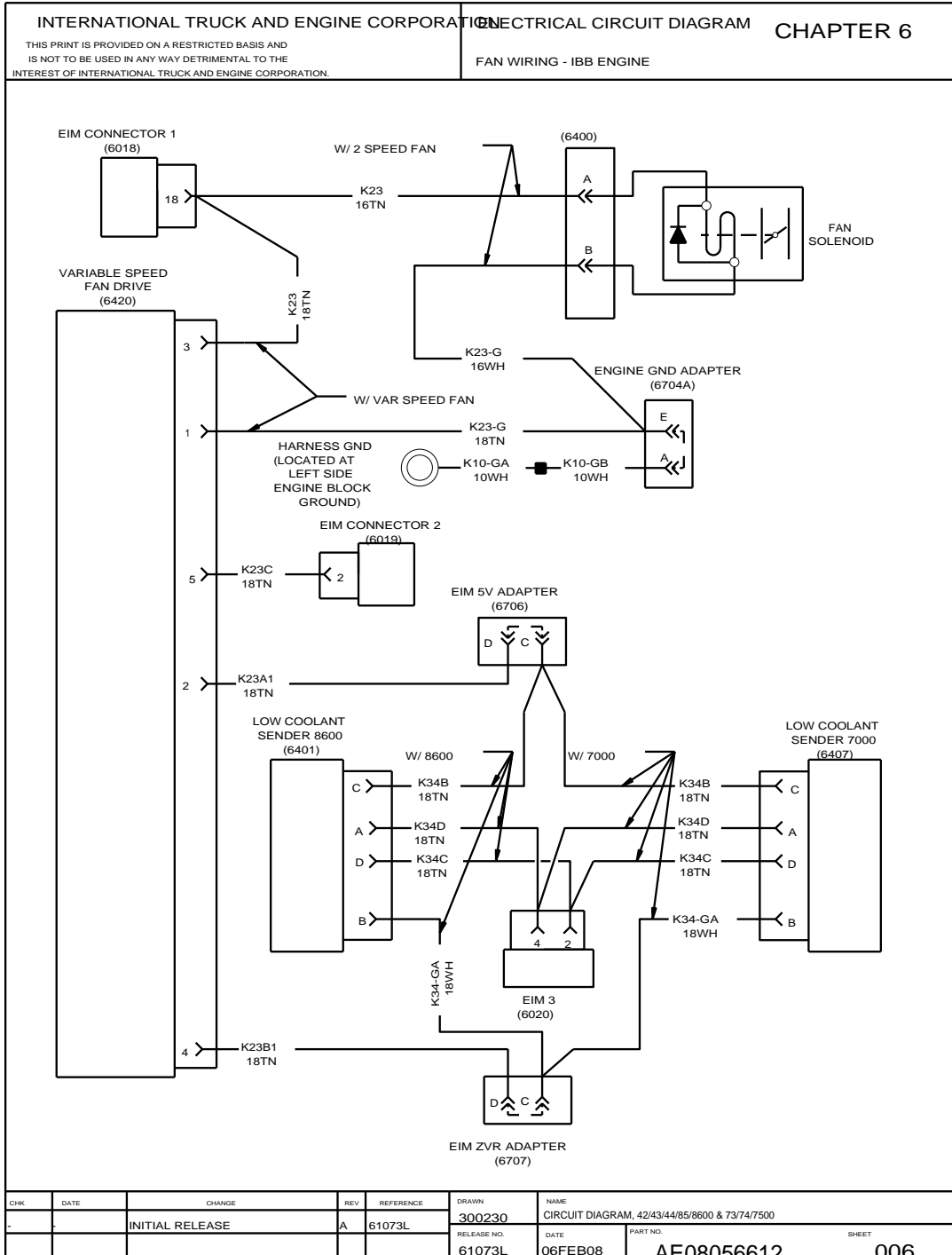
6.5. SNOW VALVE WITH IBB ENGINE, P. 4A



6.6. STARTING AID — COLD START ASSIST (IBB ENGINE), P. 5

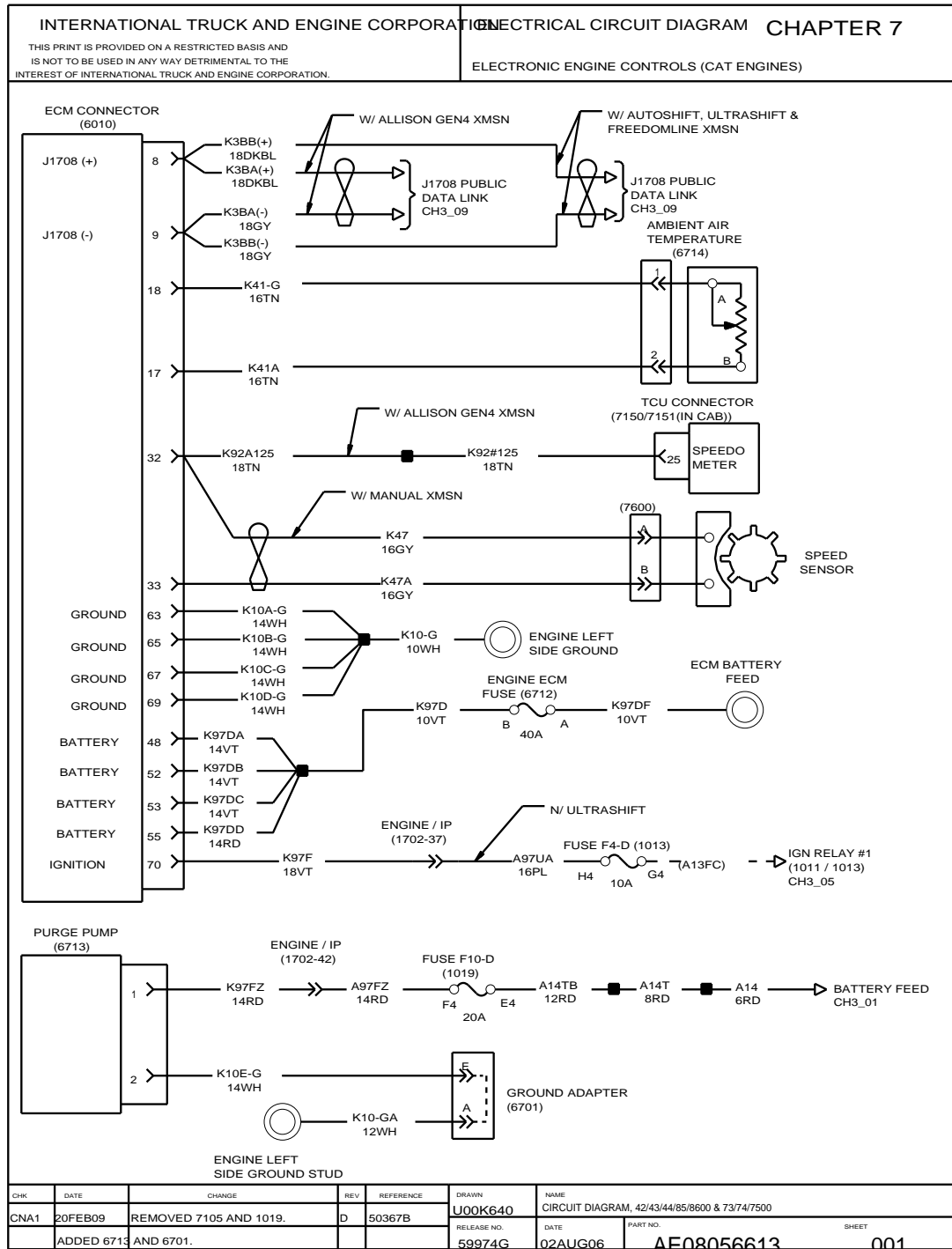


6.7. FAN WIRING — IBB ENGINE, P. 6

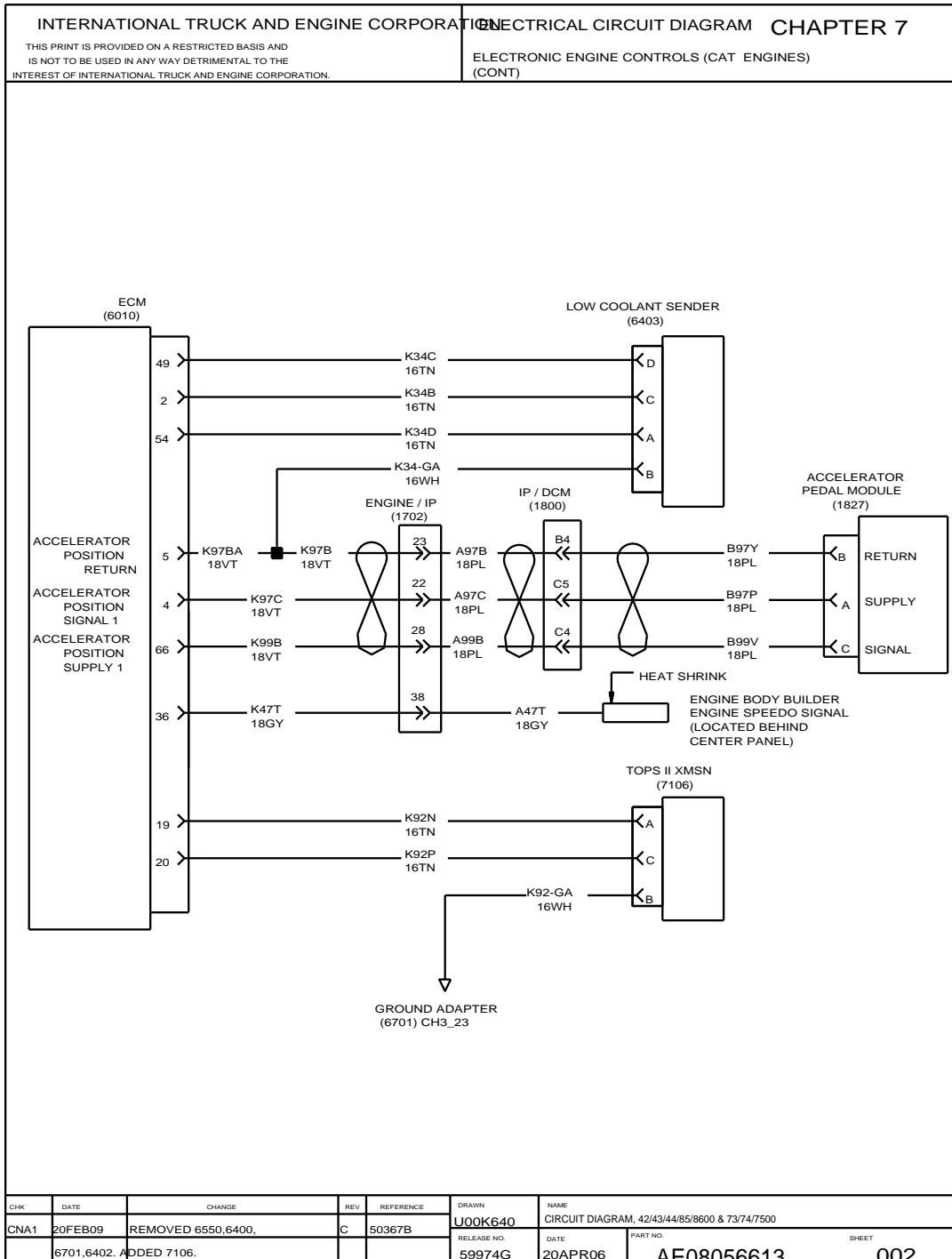


7. ELECTRONIC ENGINES (CHAPTER 7)

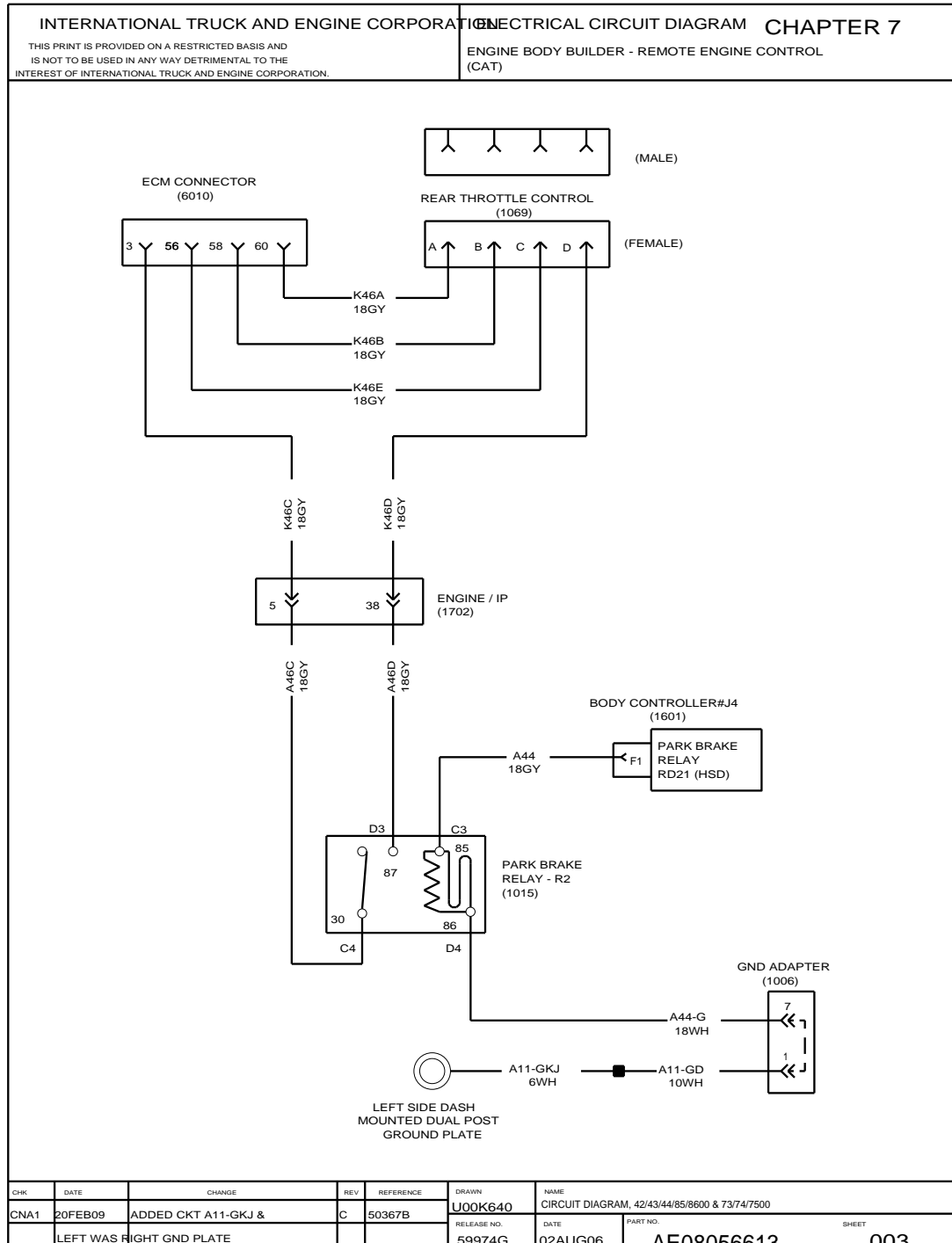
7.1. ELECTRONIC ENGINE CONTROLS, CAT ENGINES, P. 1



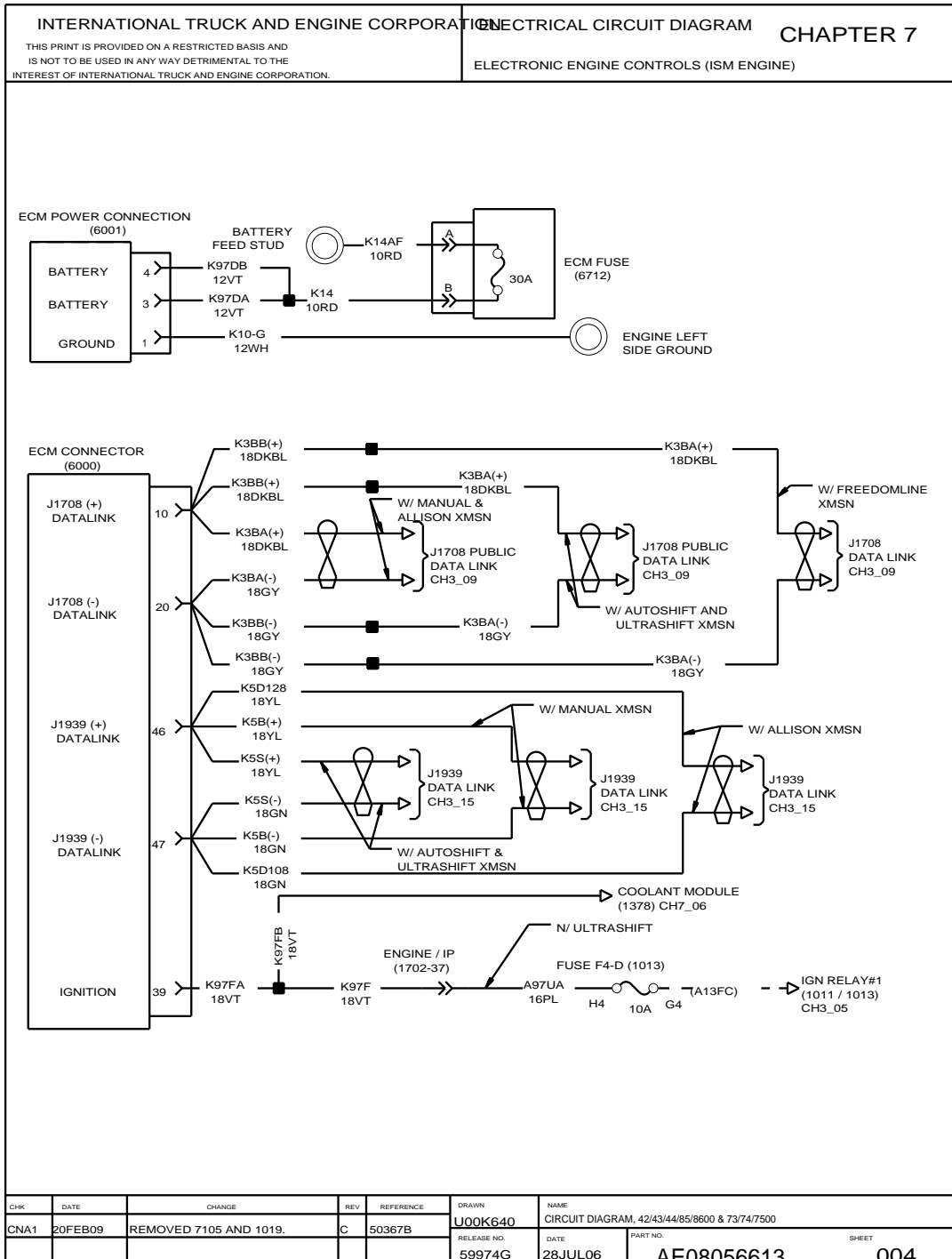
7.2. ELECTRONIC ENGINE CONTROLS, CAT ENGINES, P. 2



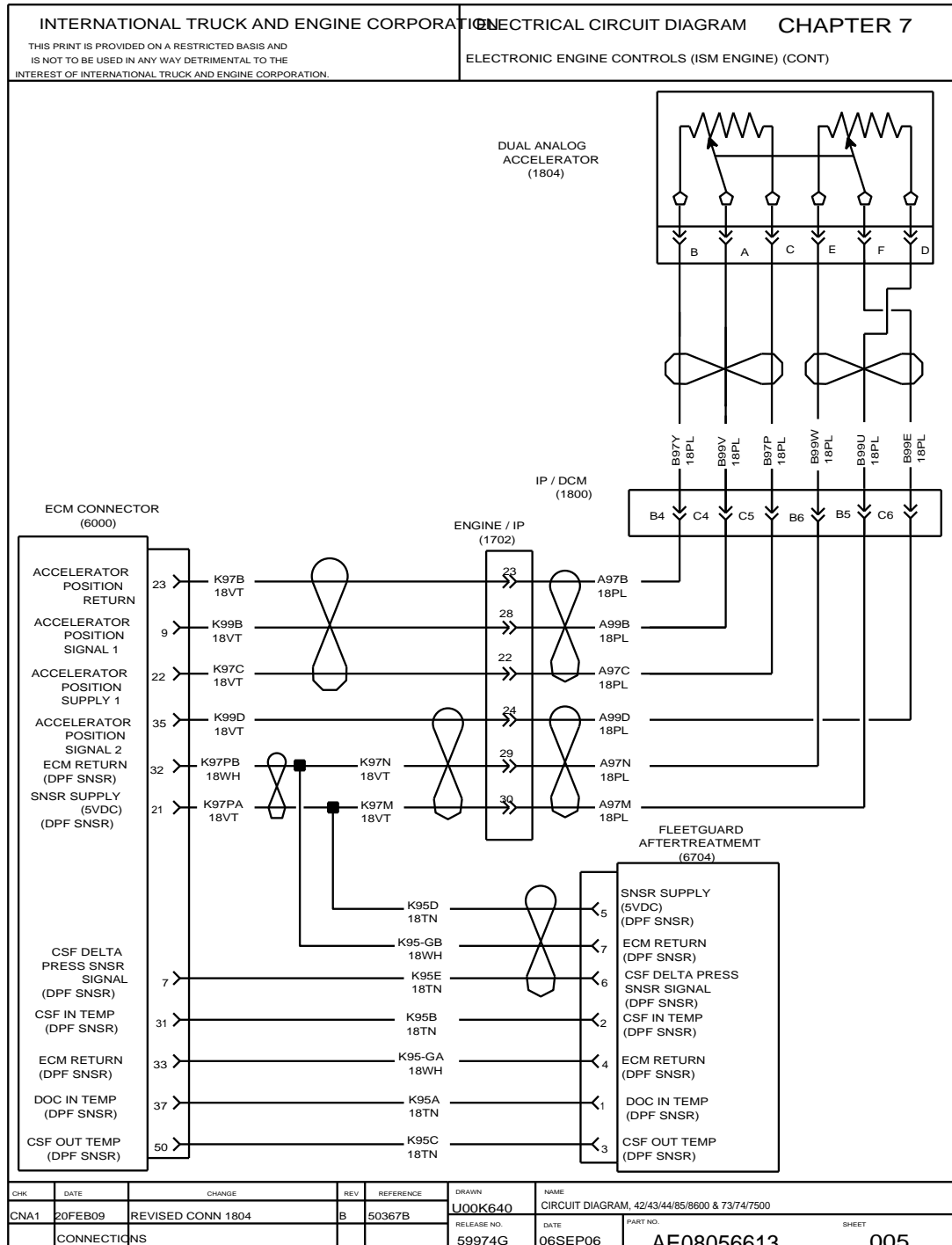
7.3. ENGINE BODY BUILDER — REMOTE ENGINE CONTROL (CAT ENGINE), P. 3



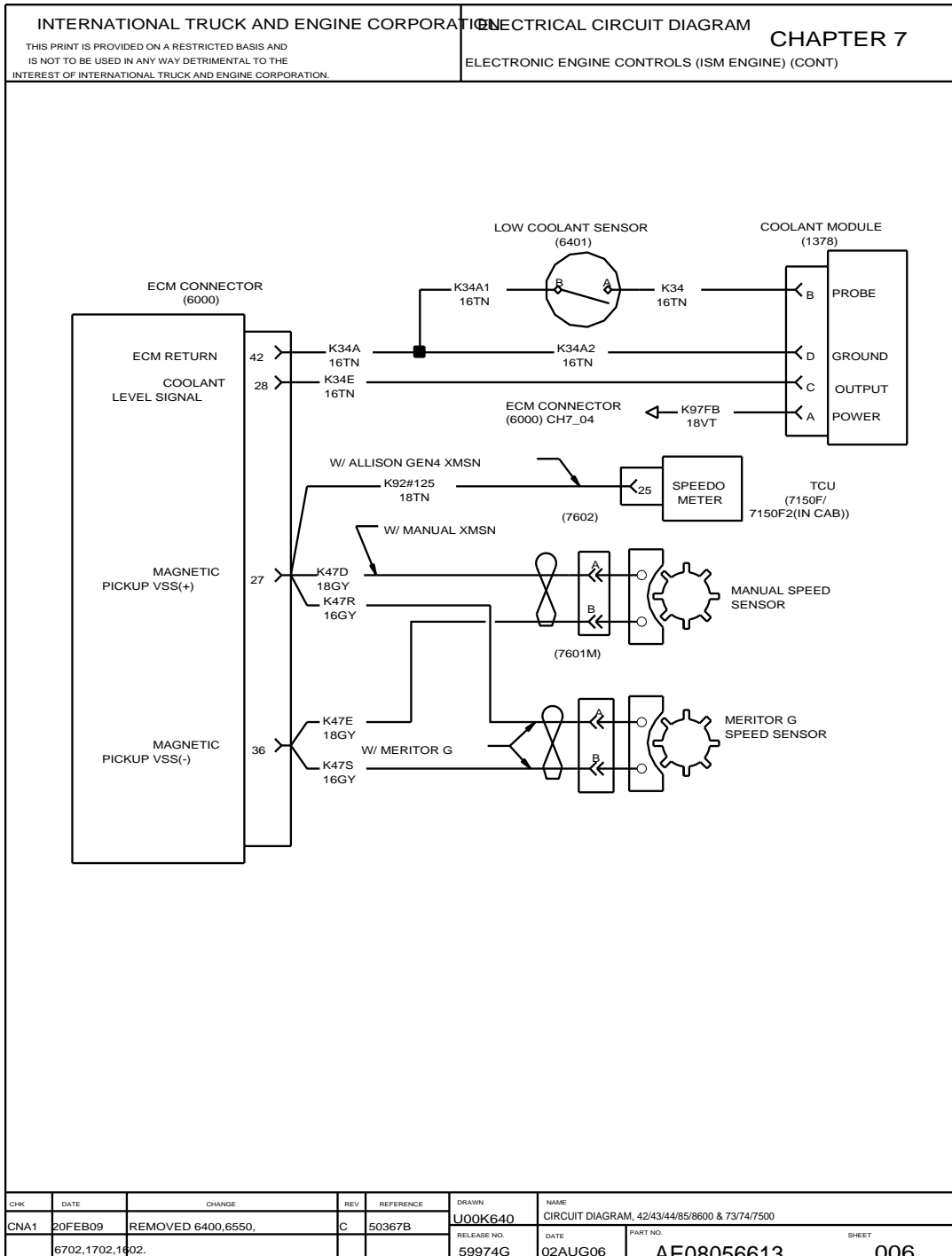
7.4. ELECTRONIC ENGINE CONTROLS, ISM ENGINES, P. 4



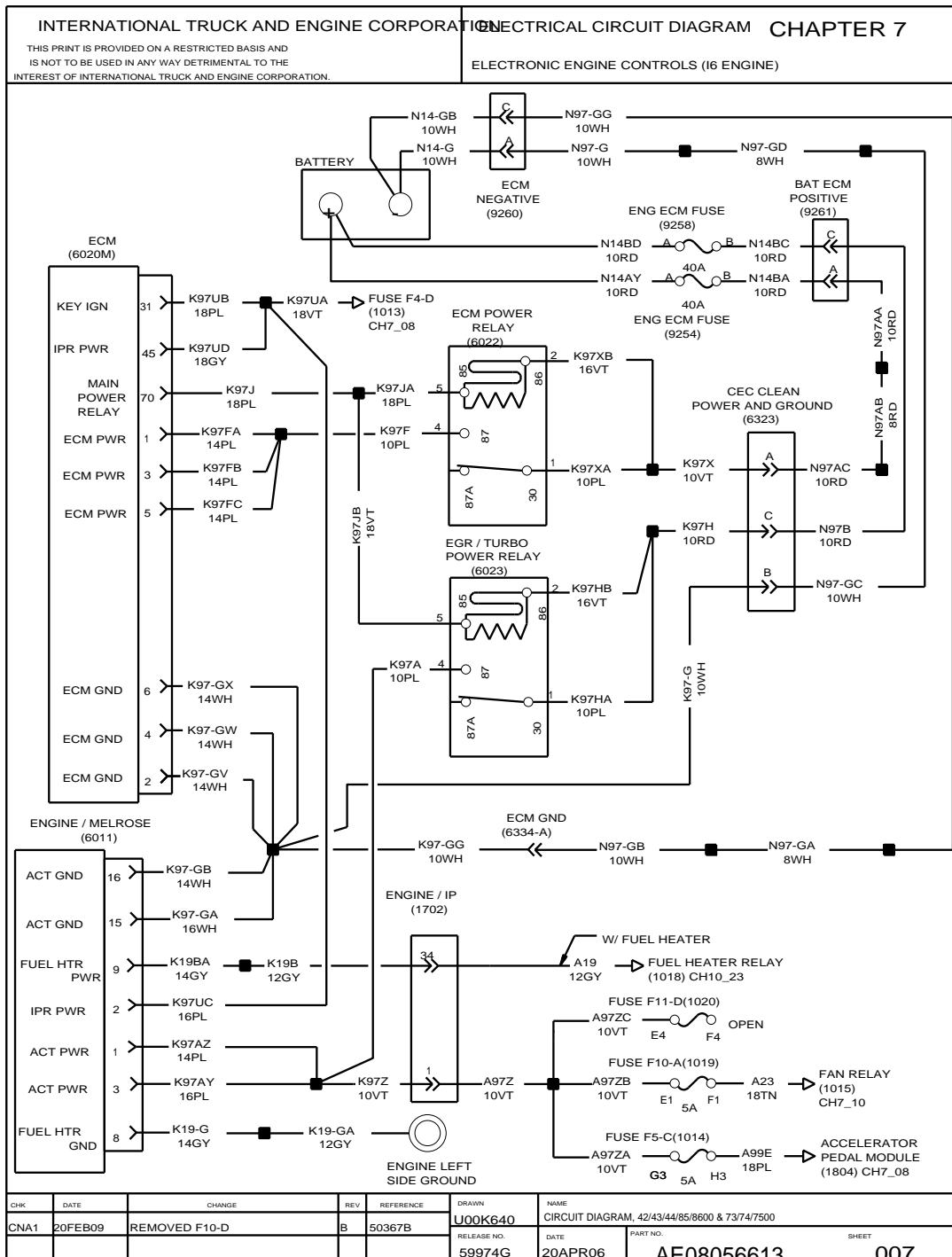
7.5. ELECTRONIC ENGINE CONTROLS, ISM ENGINES, P. 5



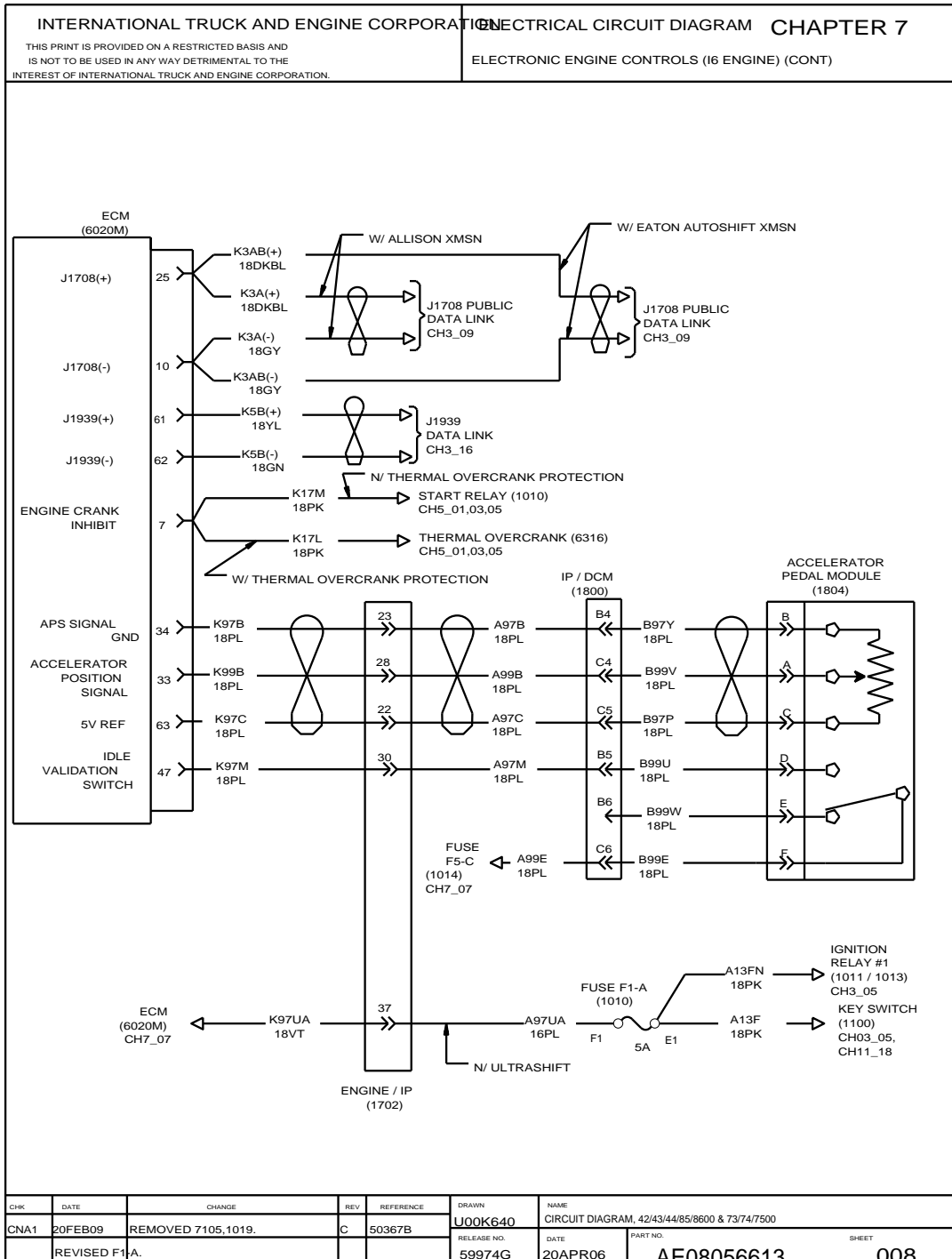
7.6. ELECTRONIC ENGINE CONTROLS, ISM ENGINES, P. 6



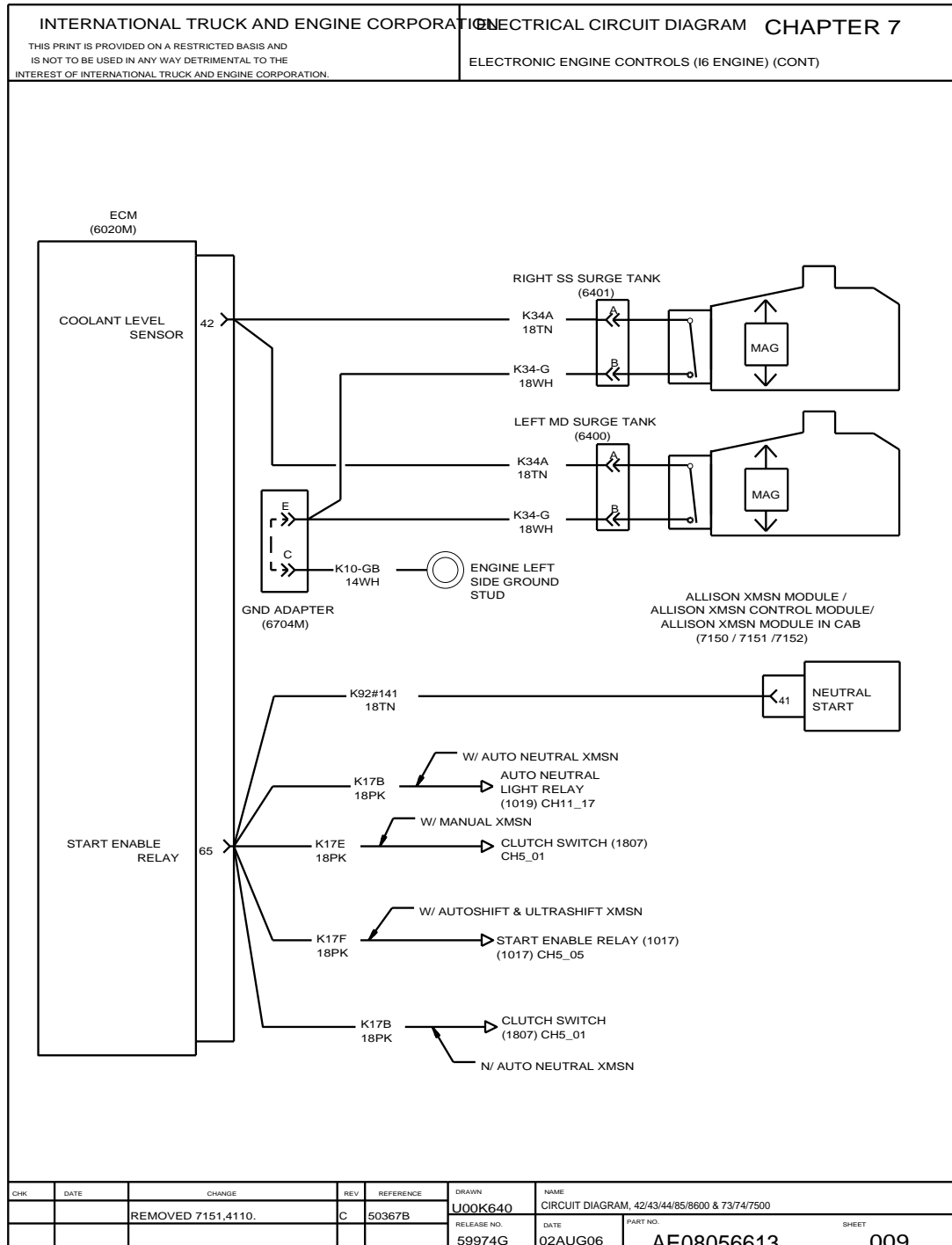
7.7. ELECTRONIC ENGINE CONTROLS, I6 ENGINES, P. 7



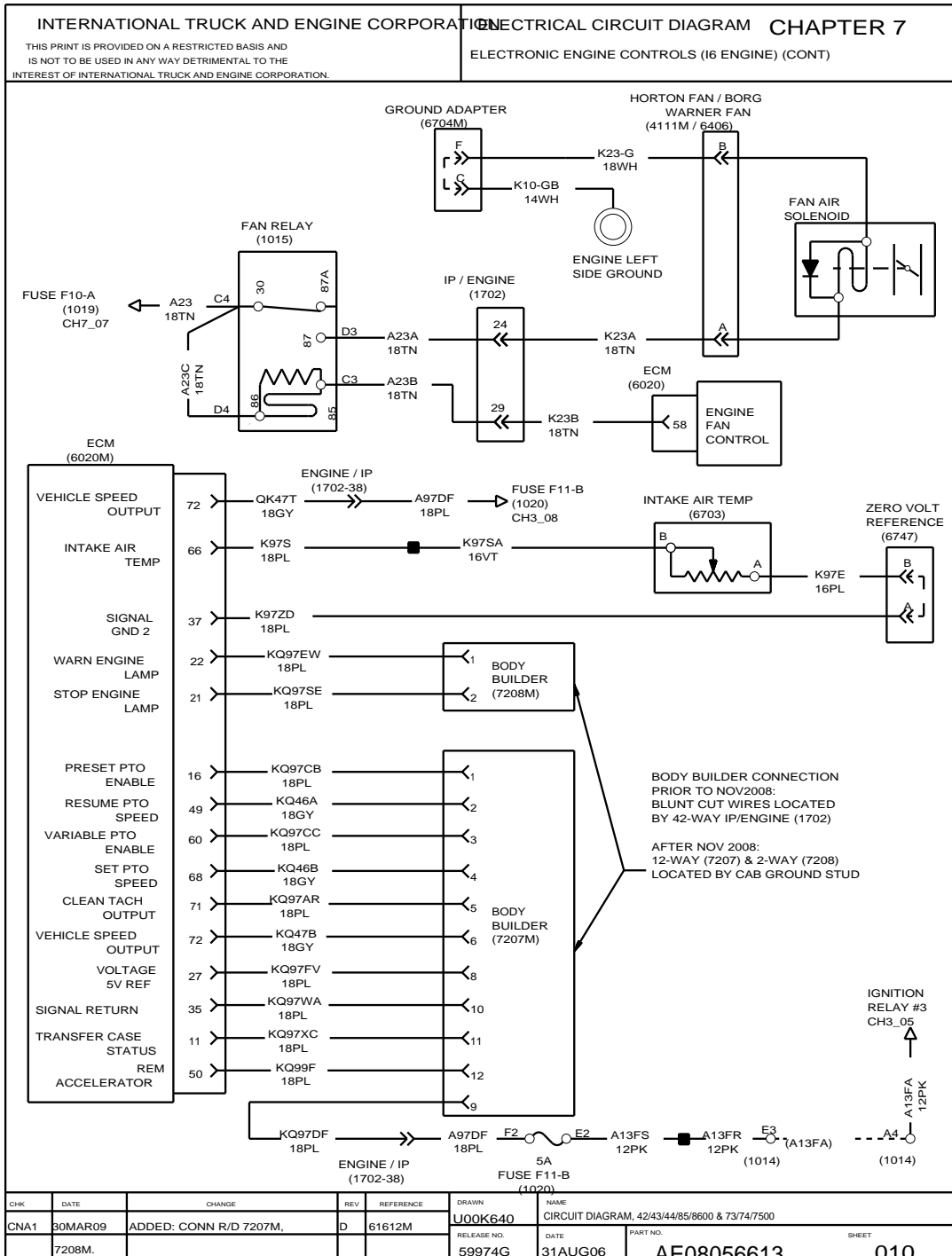
7.8. ELECTRONIC ENGINE CONTROLS, I6 ENGINES, P. 8



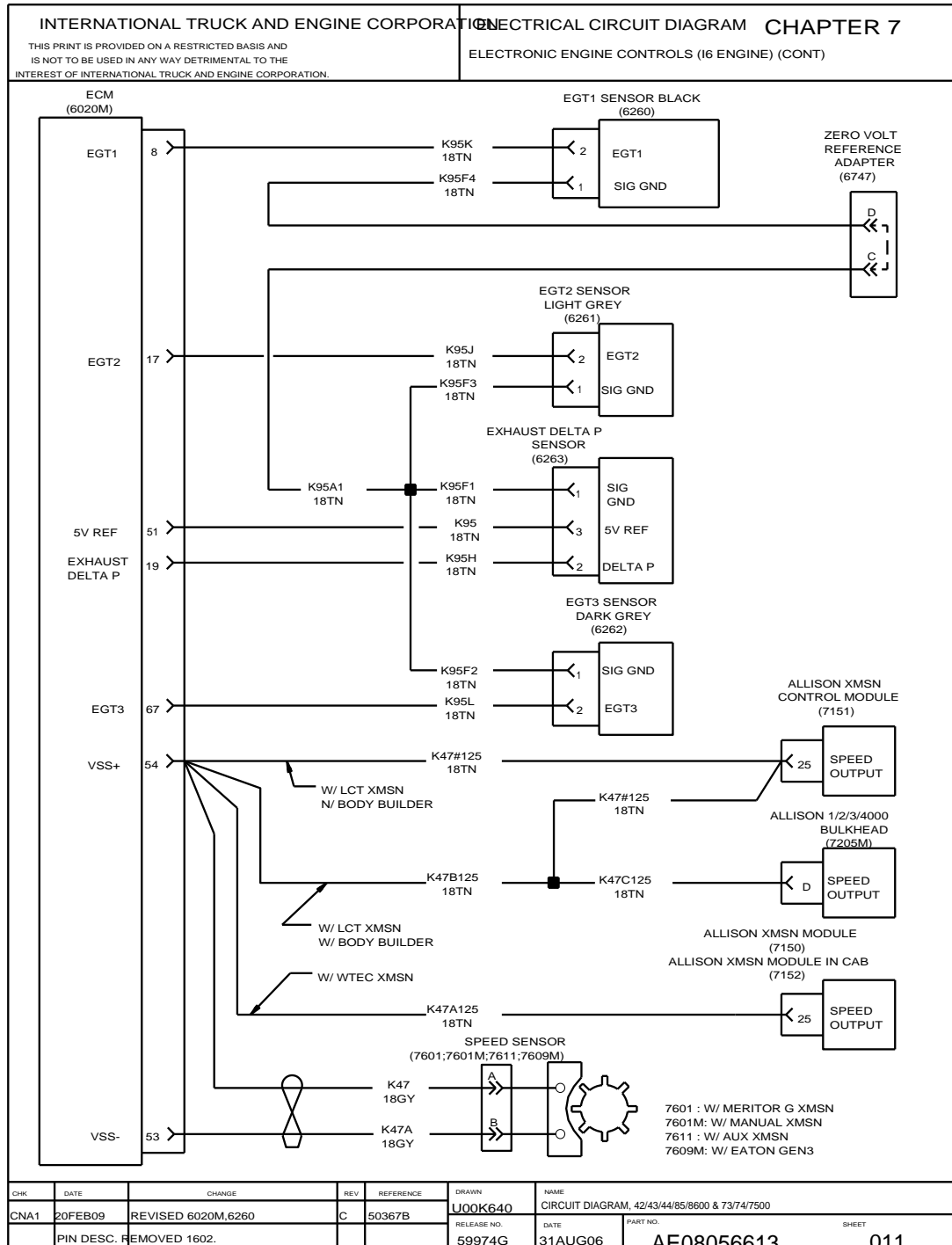
7.9. ELECTRONIC ENGINE CONTROLS, I6 ENGINES, P. 9



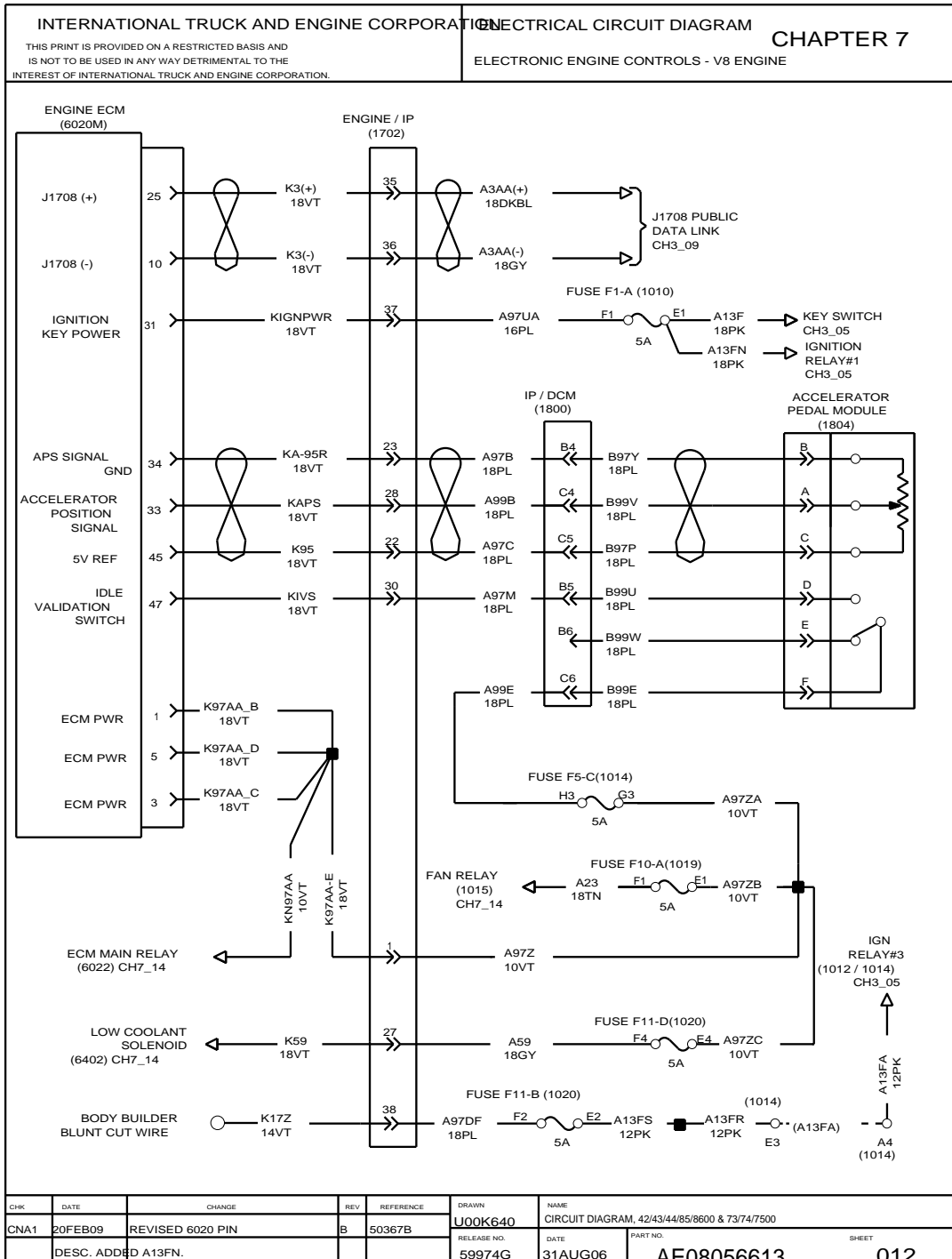
7.10. ELECTRONIC ENGINE CONTROLS, I6 ENGINES, P. 10



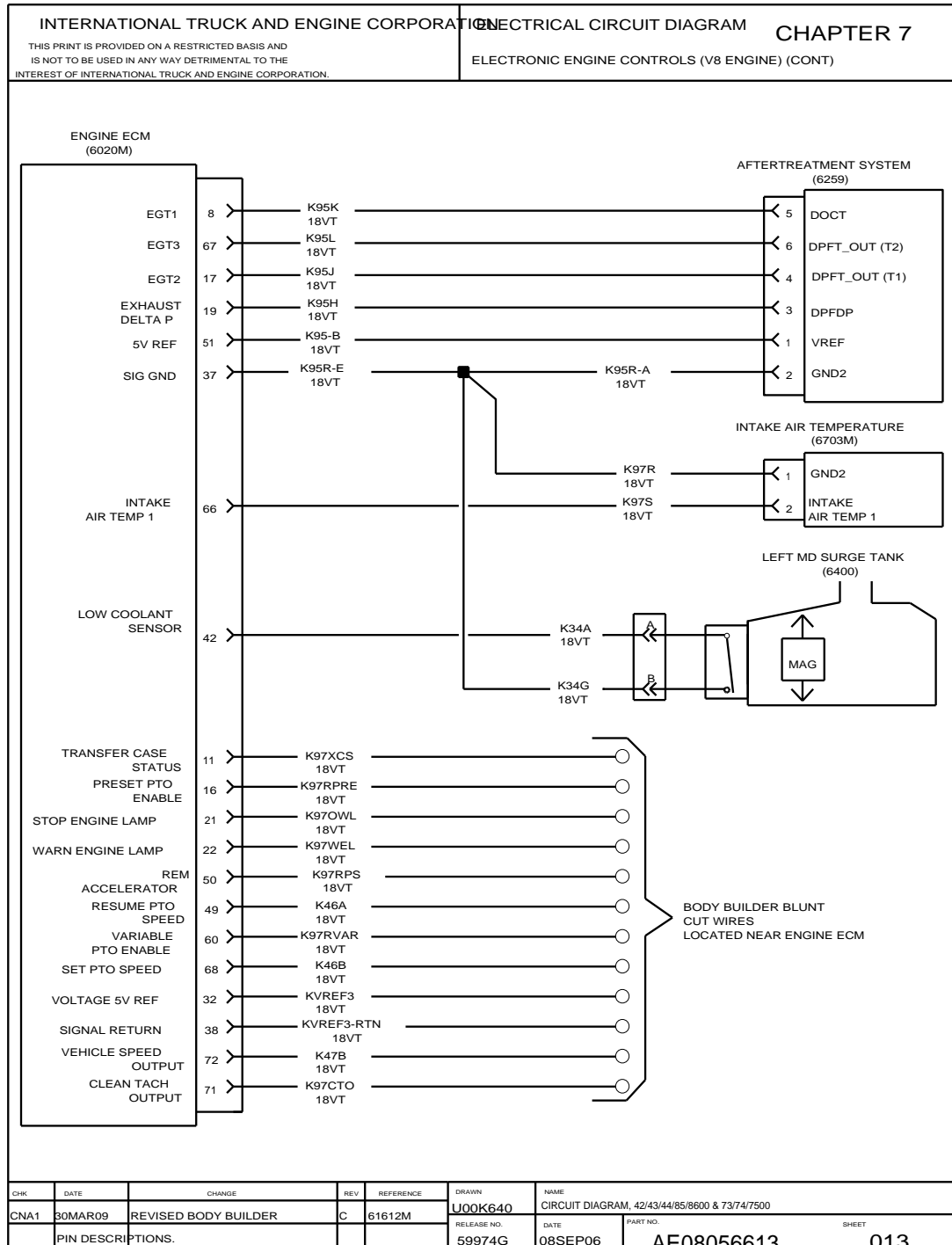
7.11. ELECTRONIC ENGINE CONTROLS, I6 ENGINES, P. 11



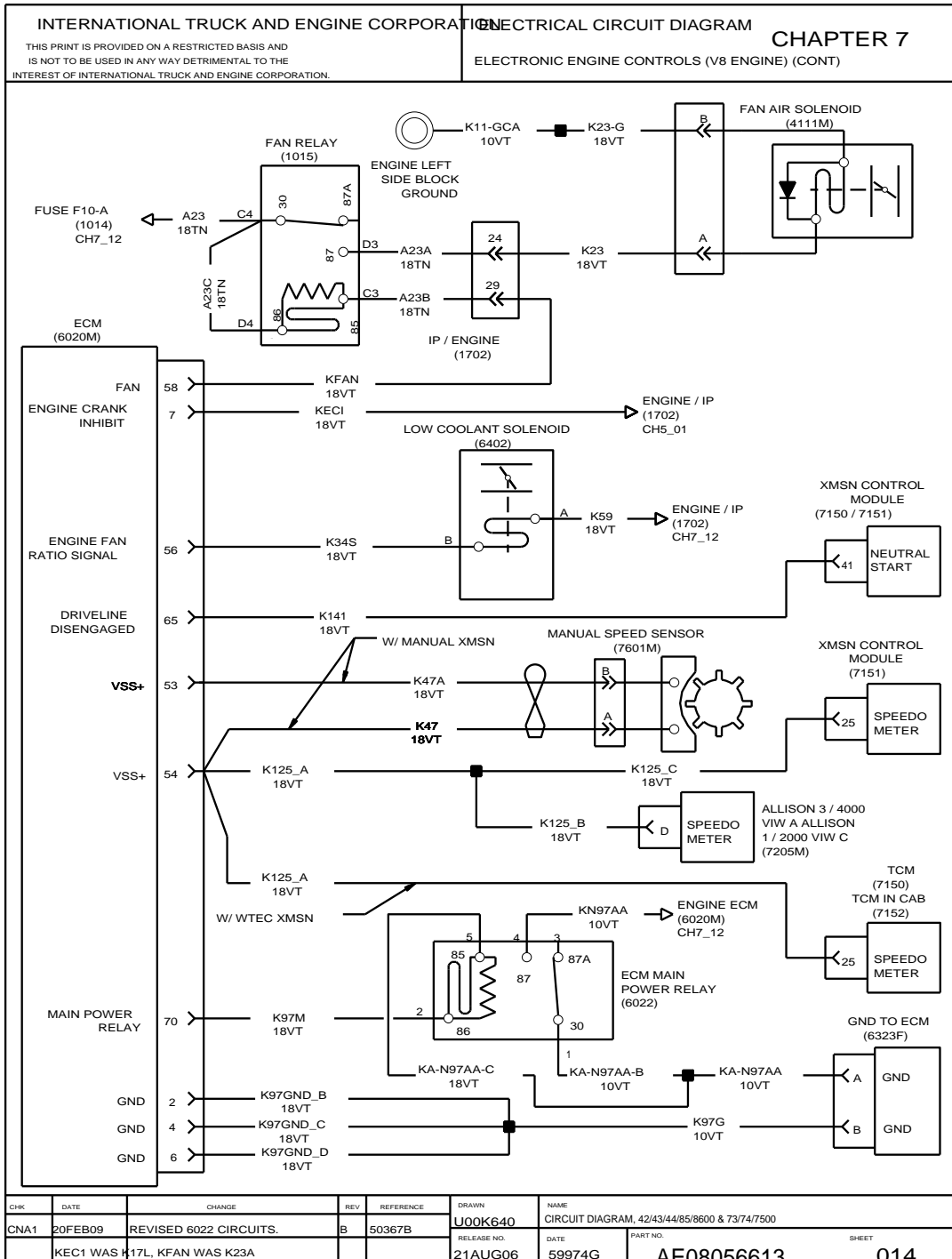
7.12. ELECTRONIC ENGINE CONTROLS — V8 ENGINES, P. 12



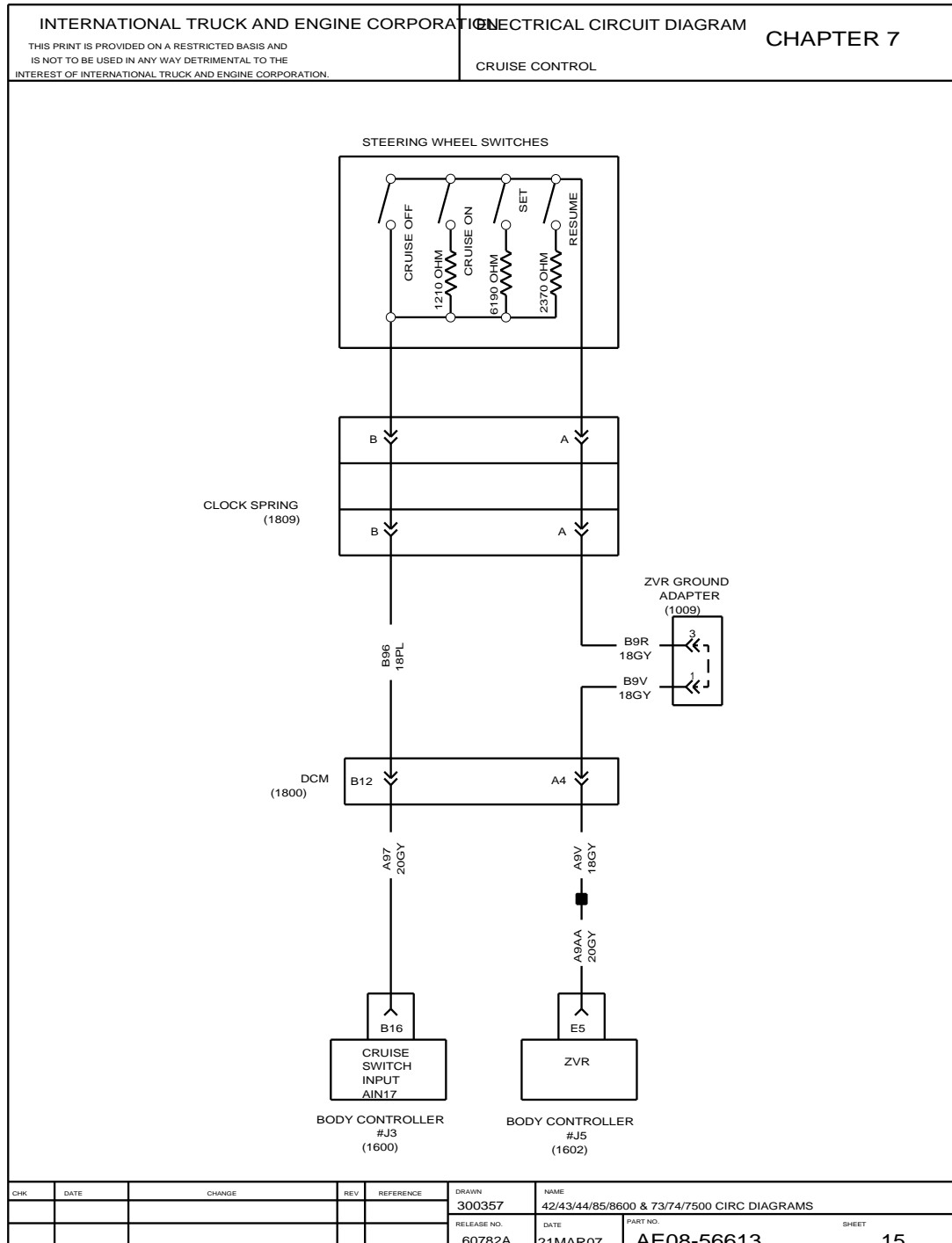
7.13. ELECTRONIC ENGINE CONTROLS — V8 ENGINES, P. 13



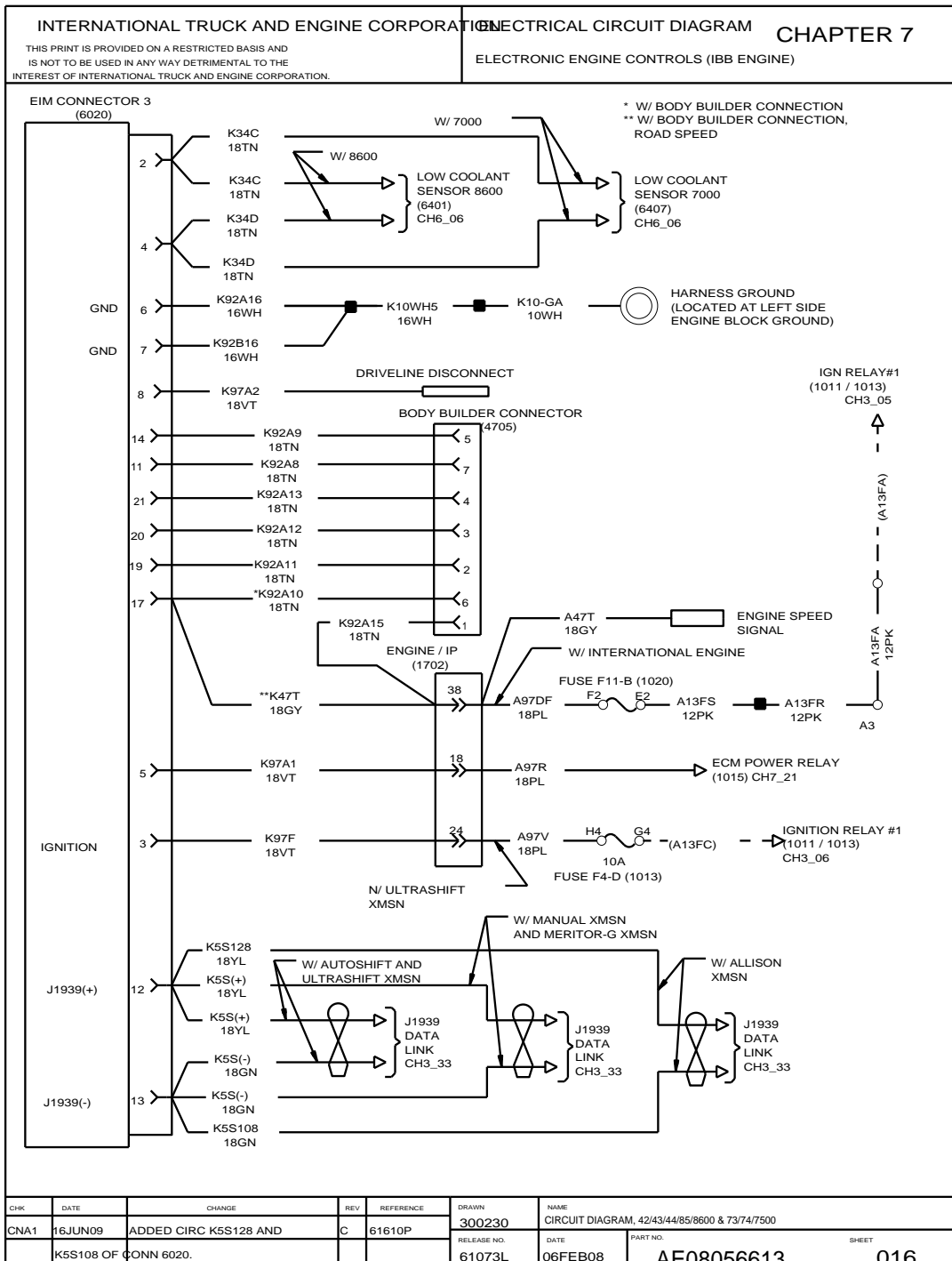
7.14. ELECTRONIC ENGINE CONTROLS — V8 ENGINES, P. 14



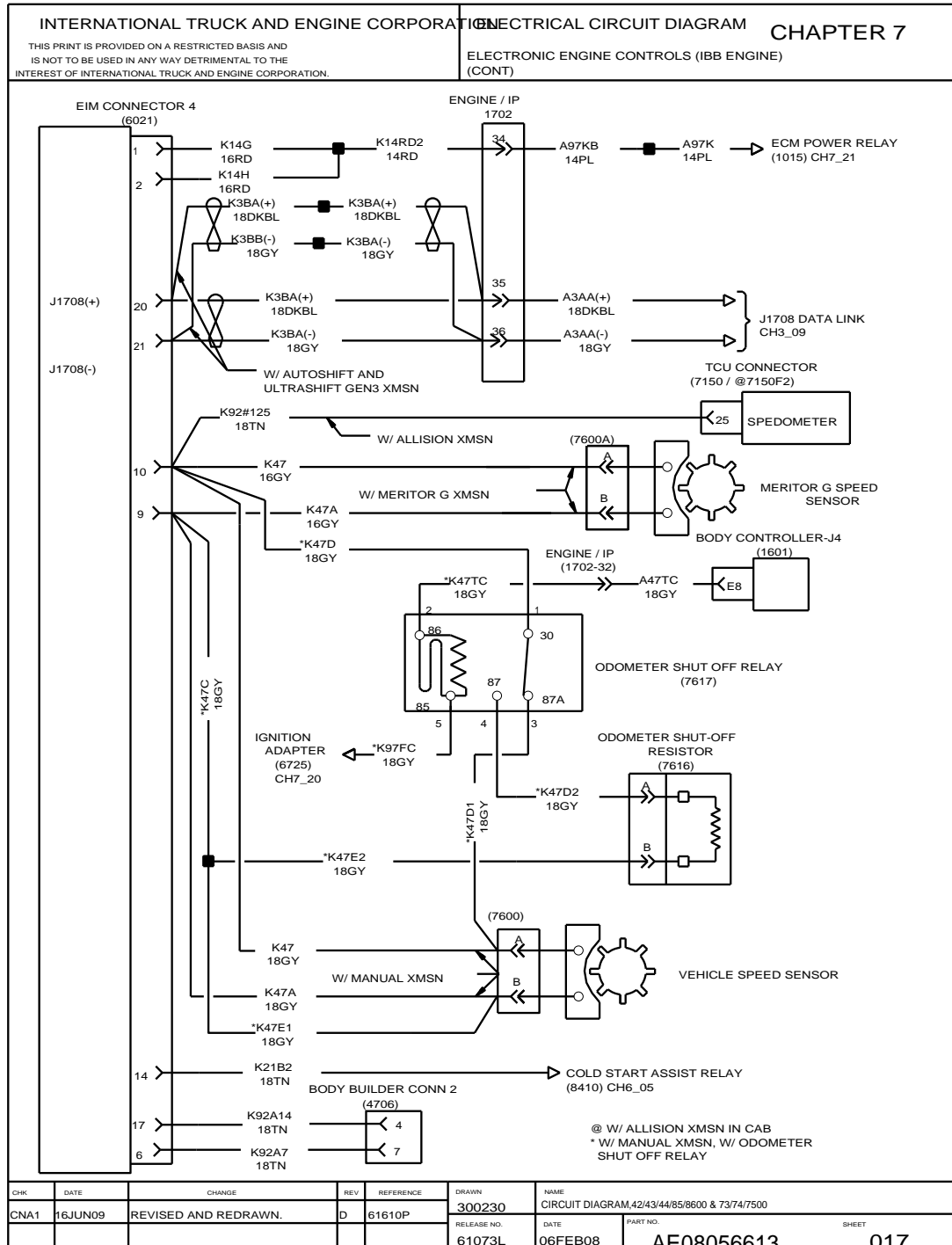
7.15. CRUISE CONTROL, P. 15



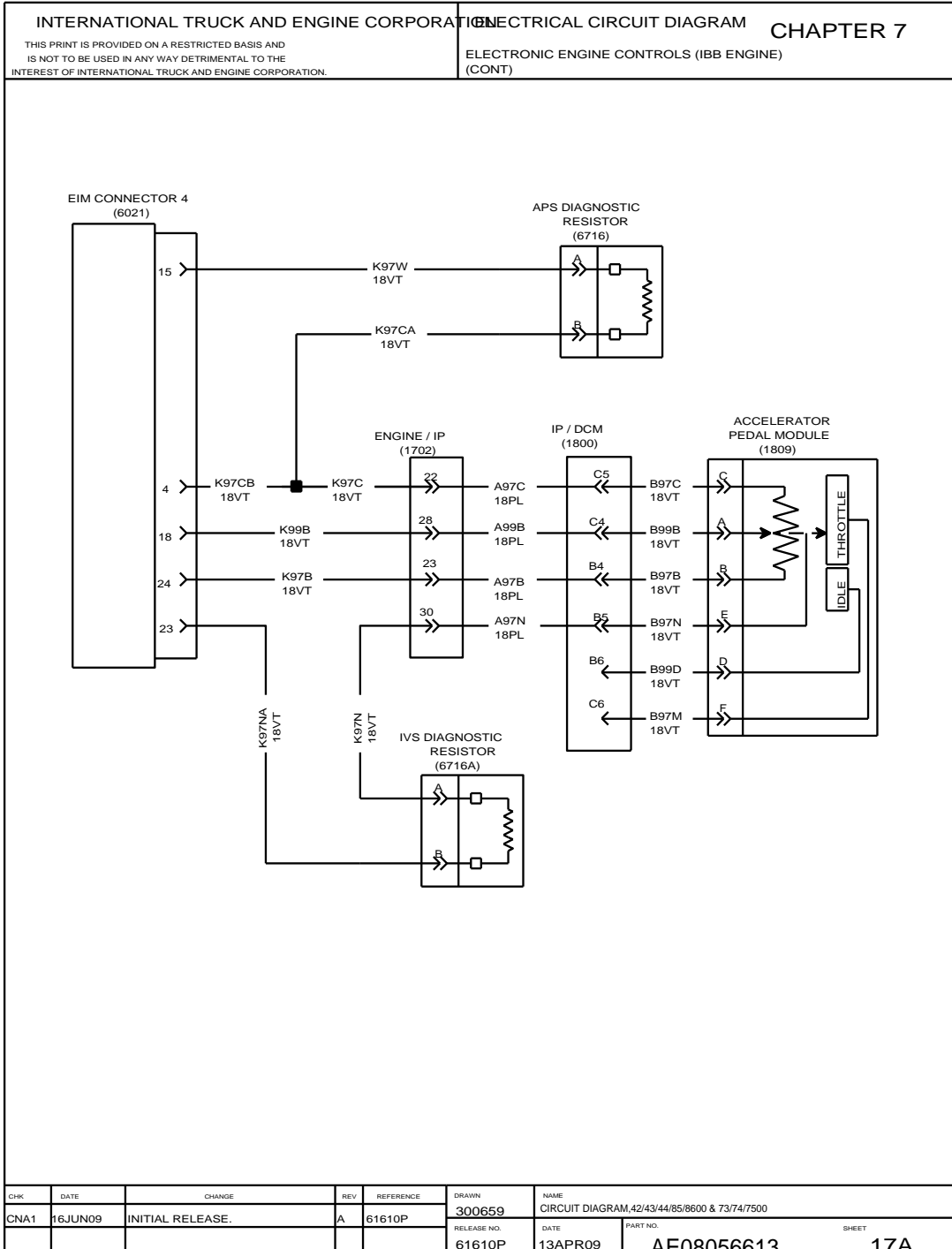
7.16. ELECTRONIC ENGINE CONTROLS (IBB ENGINE), P. 16



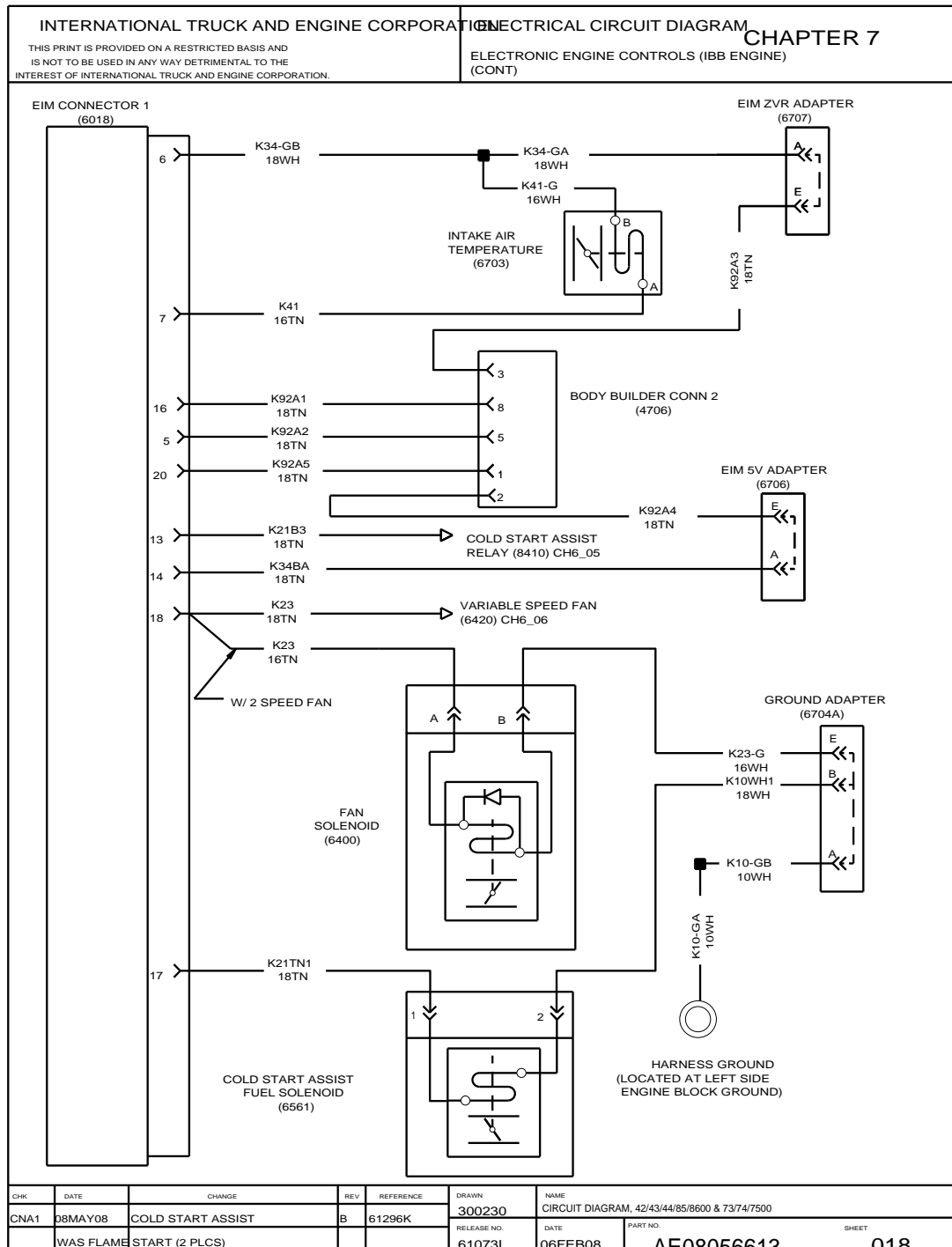
7.17. ELECTRONIC ENGINE CONTROLS (IBB ENGINE), P. 17



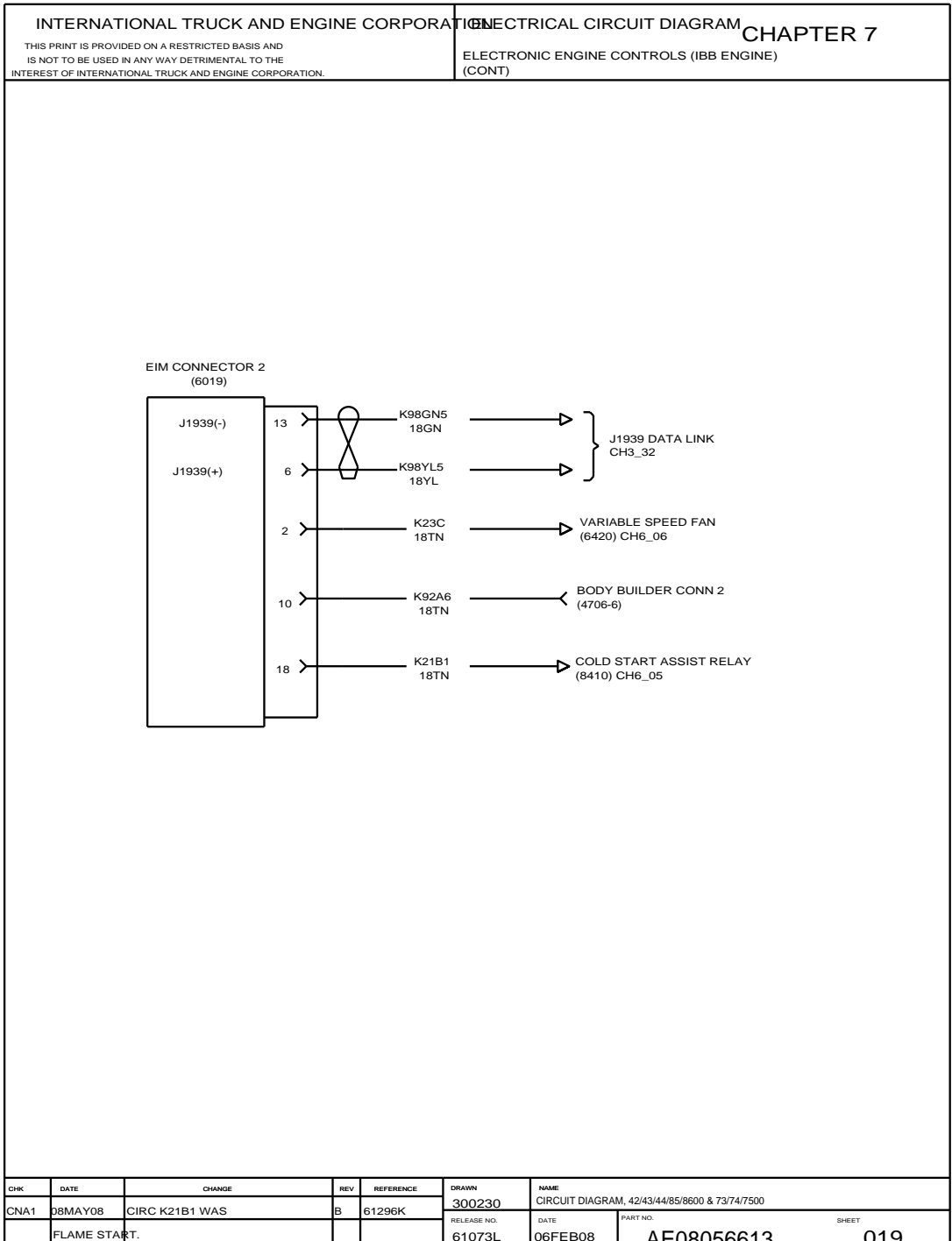
7.18. ELECTRONIC ENGINE CONTROLS (IBB ENGINE), P. 17A



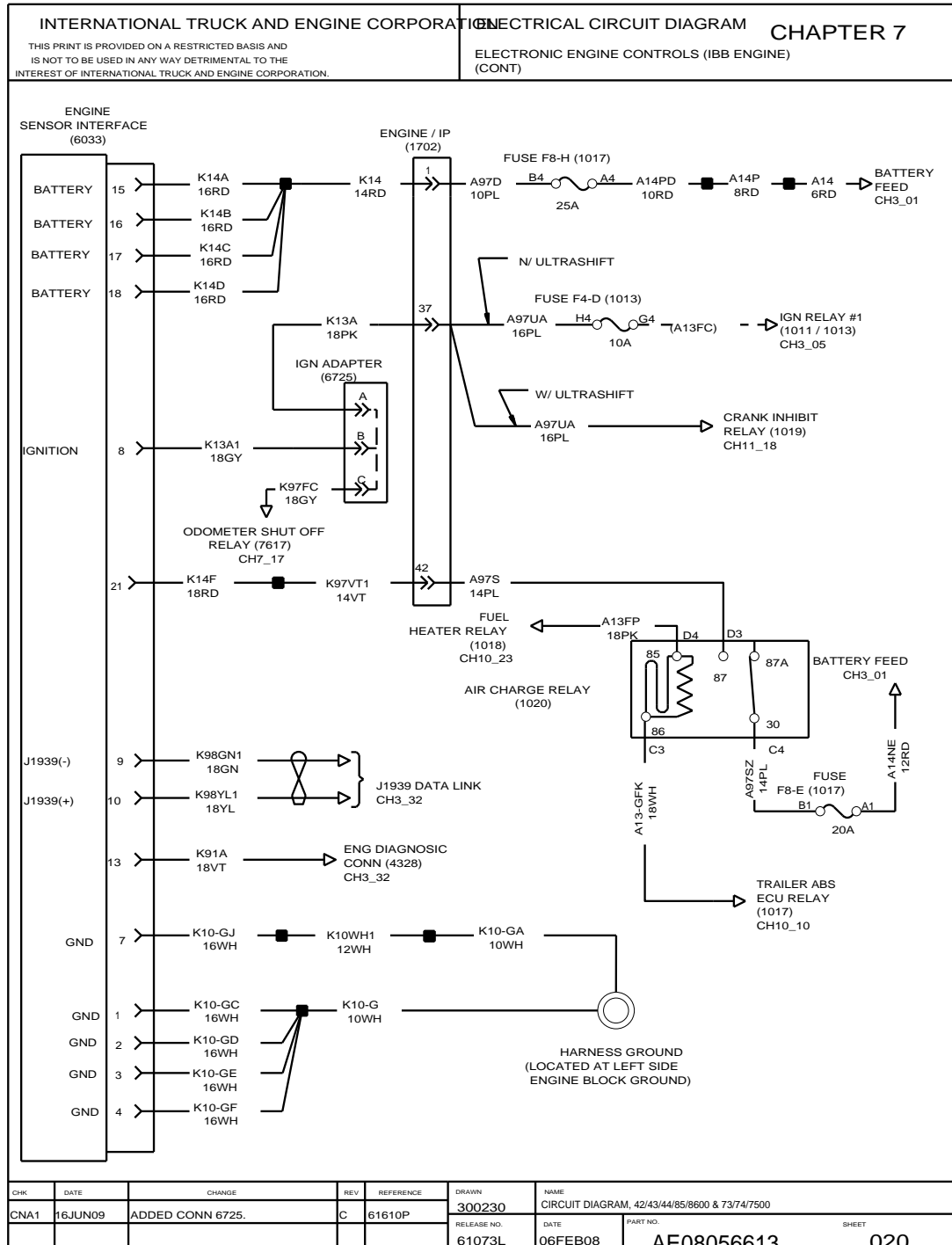
7.19. ELECTRONIC ENGINE CONTROLS (IBB ENGINE), P. 18



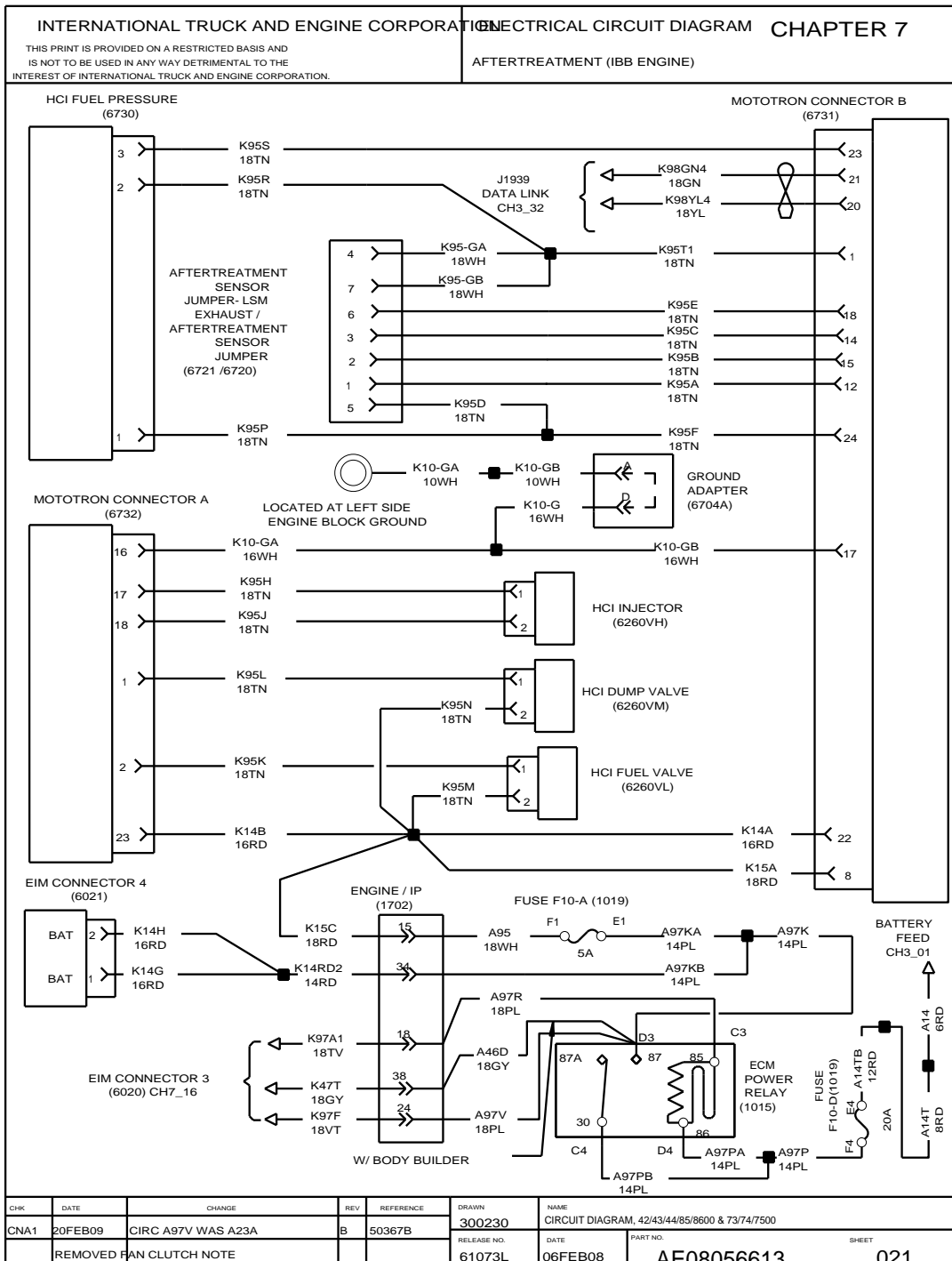
7.20. ELECTRONIC ENGINE CONTROLS (IBB ENGINE), P. 19



7.21. ELECTRONIC ENGINE CONTROLS (IBB ENGINE), P. 20



7.22. AFTERTREATMENT (IBB ENGINE), P. 21



7.23. AFTERTREATMENT (CAT ENGINE), P. 22

