

# SERVICE MANUAL

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## SERVICE MANUAL SECTION

**3200, 4100, 4200, 4300, 4400, 7300, 7400, 7500, 7600, 7700, 8500, 8600,  
MXT, RXT Models Built Oct. 1, 2005 to Feb. 28, 2007 — ELECTRICAL  
CIRCUIT DIAGRAMS**

**Model: 3200**

**Start Date: 10/01/2005 End Date: 02/28/2007**

**Model: 4100**

**Start Date: 10/01/2005 End Date: 02/28/2007**

**Model: 4200**

**Start Date: 10/01/2005 End Date: 02/28/2007**

**Model: 4300**

**Start Date: 10/01/2005 End Date: 02/28/2007**

**Model: 4400**

**Start Date: 10/01/2005 End Date: 02/28/2007**

**Model: 7300**

**Start Date: 10/01/2005 End Date: 02/28/2007**

**Model: 7400**

**Start Date: 10/01/2005 End Date: 02/28/2007**

**Model: 7500**

**Start Date: 10/01/2005 End Date: 02/28/2007**

**Model: 7600**

**Start Date: 10/01/2005 End Date: 02/28/2007**

**Model: 7700**

**Start Date: 10/01/2005 End Date: 02/28/2007**

**Model: 8500**

**Start Date: 10/01/2005 End Date: 02/28/2007**

**Model: 8600**

**Start Date: 10/01/2005 End Date: 02/28/2007**

**Model: MXT**

**Start Date: 07/06/2006 End Date: 02/28/2007**

**Model: RXT**

**Start Date: 07/06/2006 End Date: 02/28/2007**

**S08315**

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## 1. INSTRUCTIONS AND CHARTS (CHAPTER 1)

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

<b>INTERNATIONAL TRUCK AND ENGINE CORPORATION</b> <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>	<b>ELECTRICAL CIRCUIT DIAGRAM</b> <b>CHAPTER 1</b> <b>CIRCUIT IDENTIFICATION AND LOCATION CHART</b>																																																											
<p>PREFIX DESIGNATIONS</p> <table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">PREFIX</th> <th>LOCATION</th> </tr> </thead> <tbody> <tr><td>A</td><td>CAB-INSTRUMENT PANEL</td></tr> <tr><td>B</td><td>CAB-DRIVER CONTROL MODULE</td></tr> <tr><td>C</td><td>CAB-HEADER/CLEARANCE LIGHTS</td></tr> <tr><td>D</td><td>CAB-ROOF/REAR PANEL</td></tr> <tr><td>E</td><td>CAB-LEFT DOOR/DOORS</td></tr> <tr><td>F</td><td>CAB-RIGHT DOOR/DOORS.</td></tr> <tr><td>H</td><td>CAB-SLEEPER</td></tr> <tr><td>J</td><td>CAB-DASH (OUTSIDE)</td></tr> <tr><td>K</td><td>ENGINE/RADIATOR</td></tr> <tr><td>L</td><td>TRANSMISSION</td></tr> <tr><td>M</td><td>CHASSIS/FRONT END (CAB DASH PANEL FORWARD)</td></tr> <tr><td>N</td><td>CHASSIS/CENTER SECTION (CAB DASH PANEL TO CAB RR XMBR)</td></tr> <tr><td>P</td><td>CHASSIS/WHEEL BASE SECTION</td></tr> <tr><td>R</td><td>CHASSIS/SUSPENSION/REAR AXLE/AXLES</td></tr> <tr><td>S</td><td>CHASSIS/AF SECTION/STOP/TAIL/TURN LIGHTS</td></tr> </tbody> </table> <p style="text-align: center; margin-top: 20px;">CIRCUIT NUMBER AND IDENTIFICATIONS</p> <table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">CIRCUIT NUMBER</th> <th style="width: 10%;">COLOR</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td style="text-align: center;">1</td><td style="text-align: center;">LT BL</td><td>ALTERNATOR - FIELD</td></tr> <tr><td style="text-align: center;">2</td><td style="text-align: center;">RD</td><td>ALTERNATOR - CHARGE</td></tr> <tr><td style="text-align: center;">3</td><td style="text-align: center;">DK BL GY</td><td>1708 DATA LINK, SWITCH DATA LINK (+) 1708 DATA LINK, SWITCH DATA LINK (-)</td></tr> <tr><td style="text-align: center;">4</td><td></td><td>SERIAL/DATA COMMUNICATION J1922</td></tr> <tr><td style="text-align: center;">5</td><td style="text-align: center;">YL GN</td><td>DRIVE TRAIN J1939 DATA LINK (+) DRIVE TRAIN J1939 DATA LINK (-)</td></tr> <tr><td style="text-align: center;">6</td><td style="text-align: center;">GY</td><td>LOW VOLTAGE ELECTRONIC FEED (9VOLTS)</td></tr> <tr><td style="text-align: center;">7</td><td style="text-align: center;">RD</td><td>ALTERNATOR - RESISTANCE</td></tr> <tr><td style="text-align: center;">8</td><td></td><td></td></tr> </tbody> </table>		PREFIX	LOCATION	A	CAB-INSTRUMENT PANEL	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 RR XMBR)	P	CHASSIS/WHEEL BASE SECTION	R	CHASSIS/SUSPENSION/REAR AXLE/AXLES	S	CHASSIS/AF SECTION/STOP/TAIL/TURN LIGHTS	CIRCUIT NUMBER	COLOR	DESCRIPTION	1	LT BL	ALTERNATOR - FIELD	2	RD	ALTERNATOR - CHARGE	3	DK BL GY	1708 DATA LINK, SWITCH DATA LINK (+) 1708 DATA LINK, SWITCH DATA LINK (-)	4		SERIAL/DATA COMMUNICATION J1922	5	YL GN	DRIVE TRAIN J1939 DATA LINK (+) DRIVE TRAIN J1939 DATA LINK (-)	6	GY	LOW VOLTAGE ELECTRONIC FEED (9VOLTS)	7	RD	ALTERNATOR - RESISTANCE	8		
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Figure 1 Circuit Number Identification and Location Chart

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

INTERNATIONAL TRUCK AND ENGINE CORPORATION 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.				ELECTRICAL CIRCUIT DIAGRAM      CHAPTER 1  INTERNATIONAL CIRCUIT NUMBER IDENTIFICATION AND LOCATION (CONT.)			
CIRCUIT NUMBER AND IDENTIFICATIONS (CONT.)							
CIRCUIT NUMBER	COLOR	DESCRIPTION					
9	GY	ZERO VOLT REFERENCE (ZVR)					
10	WH	CHASSIS/ENGINE GROUND					
11	WH	CAB/SLEEPER GROUND					
12	LTBL	ACCESSORY FEED					
13	PK BK	IGNITION FEED IGNITION FEED (BODY BUILDER CONNECTOR)					
14	RD	BATTERY FEED					
15	RD	KEY SWITCH FEED					
16							
17	PK	STARTER CONTROL					
18	PK	GLOW PLUG/PRE-HEATER					
19	GY	ENGINE SHUTDOWN					
20	LTGN	REMOTE POWER MODULE					
21	TN	COLD START CONTROLS (ETHER)					
22							
23	TN	ENGINE FAN/SHUTTERS					
24	GY	ENGINE EXHAUST BRAKE					
25	TN	PYROMETER					
26	TN	AMMETER					
27	TN	VOLTMETER					
28	TN	INSTRUMENTS AND GAUGES					
29	TN	ENGINE WATER TEMPERATURE					
30	TN	ENGINE OIL TEMPERATURE					
31	TN	TRANSMISSION OIL TEMPERATURE					
32	TN	AXLE OIL TEMPERATURE					
CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	
PEC	16JAN01	PRODUCTION RELEASE.	A	P54304U	U00JXP9	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS	
					RELEASE NO.	DATE	PART NO.
					P52778H	09AUG00	AE08-52365
							SHEET 02

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

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

INTERNATIONAL TRUCK AND ENGINE CORPORATION 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.		ELECTRICAL CIRCUIT DIAGRAM CHAPTER 1 INTERNATIONAL CIRCUIT NUMBER IDENTIFICATION AND LOCATION (CONT.)						
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						
	YL	TURN SIGNAL LIGHTS - LEFT (BODY BUILDER CONNECTION)						
57	OR	TURN SIGNAL LIGHTS - RIGHT						
	LT GN	TURN SIGNAL LIGHTS - RIGHT (BODY BUILDER CONNECTION)						
CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME		
PEC	16JAN01	PRODUCTION RELEASE.	A	P54304U	U00DLCK	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS		
					RELEASE NO.	DATE	PART NO.	SHEET
					P52778H	15 MAY 00	AE08-52365	03

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

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

INTERNATIONAL TRUCK AND ENGINE CORPORATION 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.				ELECTRICAL CIRCUIT DIAGRAM      CHAPTER 1  INTERNATIONAL CIRCUIT NUMBER IDENTIFICATION AND LOCATION (CONT.)			
CIRCUIT NUMBER AND IDENTIFICATIONS (CONT.)							
CIRCUIT NUMBER	COLOR	DESCRIPTION					
58	BN	CLEARANCE/IDENTIFICATION LIGHTS					
59	GY	SOLENOID					
60	OR	HAZARD LIGHTS					
61	GY	AIR SUSPENSION					
62	DKBL	PANEL LIGHTS					
63	DKBL	COURTESY/DOME LIGHTS					
64	YL	FOG/DRIVING LIGHTS					
65	OR	CAB REAR FLOOD LIGHT					
66	YL	DAYTIME RUNNING LIGHTS					
67							
68	BN	TAIL LIGHTS					
69	BN	LICENSE PLATE LIGHT					
70	OR RD	STOP LIGHTS STOP LIGHTS (BODY BUILDER CONNECTION)					
71	OR LTBL	BACK - UP LIGHTS BACK - UP LIGHTS (BODY BUILDER CONNECTION)					
72	OR	TRAILER AUXILIARY FEED - BATTERY					
73	LTGN	PWM					
74	LTGN	HEATER RECIRC 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					
CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	
PEC	16JAN01	PRODUCTION RELEASE.	A	P54304U	U00DLCK	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS	
					RELEASE NO.	DATE	
					P52778H	15MAY00	
						PART NO.	
						AE08-52365	
						SHEET	
						04	

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

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

<b>INTERNATIONAL TRUCK AND ENGINE CORPORATION</b> 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.				<b>ELECTRICAL CIRCUIT DIAGRAM CHAPTER 1</b> INTERNATIONAL CIRCUIT NUMBER IDENTIFICATION AND LOCATION (CONT.)			
CIRCUIT NUMBER AND IDENTIFICATIONS (CONT.)							
CIRCUIT NUMBER	COLOR	DESCRIPTION					
82	GY	WINDSHIELD WIPER					
83	LTGN	POWER WINDOWS					
84	LTGN	CIGAR LIGHTER					
85	GY	HORN					
86	LTGN	RADIO - ENTERTAINMENT/CLOCK					
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 CONTROL					
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 AUX. FEED					
104	DKBL	REMOTE START/STOP					
105	LTGN	HEATED SEATS					
<b>CHK</b>	<b>DATE</b>	<b>CHANGE</b>	<b>REV</b>	<b>REFERENCE</b>	<b>DRWIN</b>		
21	05SEP05	CONVERSION FROM SABER TO UG	D	59758E	WOODLCK		
					42/43/44/85/8800 & 73/74/7500 CIRC DIAGRAMS		
					RELEASE NO. 52778H		
					DATE 15MAY00		
					PART NO. AE08-52365		
					SHEET 05		

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

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

INTERNATIONAL TRUCK AND ENGINE CORPORATION				ELECTRICAL CIRCUIT DIAGRAM CHAPTER 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.				INTERNATIONAL NAVPAK/ECM I6 ENGINE CONTROLLER CONNECTOR PIN NUMBER IDENTIFICATION	
ECM PIN#	TERM	DESCRIPTION	ECM PIN#	TERM	DESCRIPTION
12	AAT	AMBIENT AIR TEMP. SENSOR	27	IVS	IDLE VALIDATION SWITCH
33	ACD	A/C DEMAND	54	OWL	OIL/WATER WARNING LIGHT
8	APS	ACCELERATOR POS. SENSOR	25	PWR RLY	CEC MAIN POWER RELAY SIGNAL
16	ATA+1	J1708 DATALINK (+)	31	RAS	RESUME/ACCELERATE
17	ATA(-)	J1708 DATALINK (-)	37	RPRF	PRESET SPEED
29	BAP	BAROMETRIC AIR PRESS. SENSOR	30	RPS	REMOTE ACCELERATOR POS. SENS. SIG.
43	BN01	BRAKE STATUS #1	6	RPS-RTN	REMOTE ACCELERATOR POS. SENS. RTN.
44	BN02	BRAKE STATUS #2	36	RVAR	VARIABLE SPEED SWITCH
18	CAN SHLD	DRIVETRAIN J1939 DATALINK SHLD	32	SCS	SET/COAST
19	CAN(+)	DRIVETRAIN J1939 DATALINK (+)	45	SIL	SERVICE INTERVAL LIGHT
20	CAN(-)	DRIVETRAIN J1939 DATALINK (-)	34	STL	SELF TEST INPUT
15	#####	RETARDER/EXHAUST BRAKE REQUEST	48	SUL	SHIFT UP LIGHT
10	CLS	COOLANT LEVEL SENSOR	59	TACA	TACHOMETER A
35	COD	CRUISE ON/OFF	60	TACB	TACHOMETER B
21	DC(+)	POWER	38	TCSS	TORQUE CURVE SELECTION INPUT
22	DC(+)	POWER	28	TSA	TWO SPEED AXLE
1	DC(-)	GROUND	3	VBREF(5V)	ACCELERATOR SENSOR SUPPLY
2	DC(-)	GROUND	11	VBREF GND	ACCELERATOR SENSOR GROUND
26	DDS	DRIVELINE DISENGAGED INPUT	5	VCREF(5V)	REMOTE ACCELERATOR SENS. SUPPLY
42	DPS	GROUND	7	VCREF GND	REMOTE ACCELERATOR SENSOR GND
46	ECI	ENGINE CRANK INHIBIT	24	VIGN	IGNITION FEED
56	EDL	TRANSMISSION KICKDOWN	47	VRE	RETARDER/EXHAUST BRAKE ENABLE
53	GPL	GLOW PLUG LIGHT	39	VSS(+)	VEHICLE SPEED SENSOR (+)
4	HGE	HYD. PRESS GOVERNOR ENABLE	40	VSS(-)	VEHICLE SPEED SENSOR (-)
49	HMI	HYDRAULIC PRESS GOVERNOR IND. LT	58	VSSCALA	SPEEDOMETER SIGNAL A
13	HPS	HYDRAULIC PRESSURE SENSOR	57	VSSCALB	SPEEDOMETER SIGNAL B
41	HS0(+)	POWER	55	WARN	ENGINE WARNING LIGHT
23	HS0(-)	GROUND			

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
2	08SEP05	CONVERSION FROM SABER TO UG	D	59758E	U00JXP9	42/43/44/85/8800 & 73/74/7500 CIRC DIAGRAMS
					RELEASE NO.	DATE
					52778H	09AUG00
					PART NO.	SHEET
					AE08-52365	06

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



1.7. CIRCUIT DIAGRAM INSTRUCTIONS, P. 7

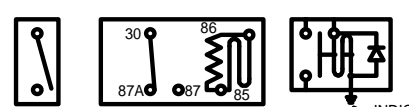

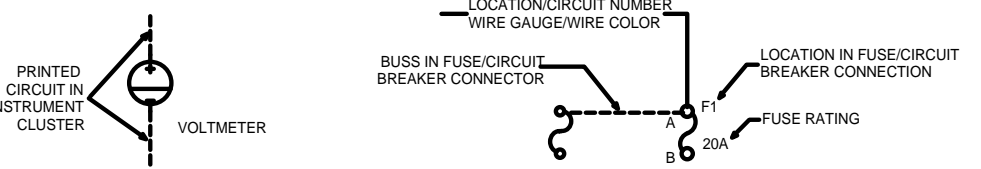
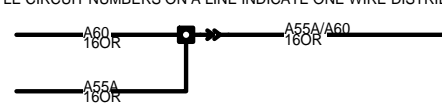
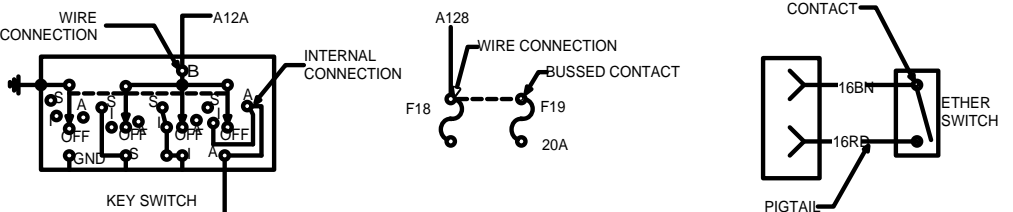
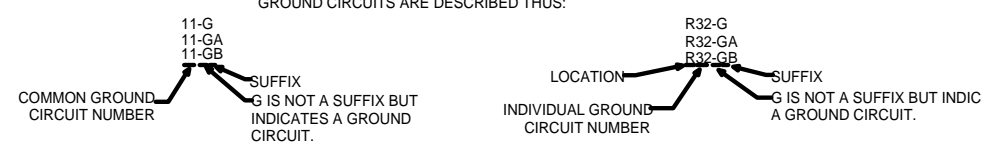
INTERNATIONAL TRUCK AND ENGINE CORPORATION THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF INTERNATIONAL TRUCK AND ENGINE CORPORATION.	ELECTRICAL CIRCUIT DIAGRAM CHAPTER 1  CIRCUIT DIAGRAM INSTRUCTIONS																																				
<p>A - SWITCH AND RELAY POSITIONS AS SHOWN ON CIRCUIT DIAGRAMS INDICATE NORMAL POSITION WITH IGNITION OFF UNLESS OTHERWISE NOTED.</p>  <p>SWITCH: MANUAL/MECHANICAL    RELAY - SUPPRESSED    SWITCH MAGNETIC GROUND SUPPRESSED    INDICATES CASE GROUND SUPPRESSED</p>	<p>B - MULTIPLE CONNECTIONS ARE DISPLAYED ON SCHEMATIC AS SHOWN. REFER TO CONNECTOR COMPOSITE WITH APPLICABLE NUMBER FOR MORE COMPLETE INFORMATION.</p>  <p>12 AND/OR 12</p> <p>SINGLE IN-LINE CONNECTORS DISPLAYED AS SHOWN WITH OR WITHOUT CONNECTOR NUMBER.</p>																																				
<p>C - PHANTOM LINES INDICATE PRINTED CIRCUITS OR BUSSED CIRCUITS. THESE CIRCUITS EXIST IN THE INSTRUMENT CLUSTERS AND FUSE/CIRCUIT BREAKER CONNECTORS.</p>  <p>PRINTED CIRCUIT IN INSTRUMENT CLUSTER    VOLTMETER    LOCATION/CIRCUIT NUMBER WIRE GAUGE/WIRE COLOR    BUSS IN FUSE/CIRCUIT BREAKER CONNECTOR    LOCATION IN FUSE/CIRCUIT BREAKER CONNECTION    FUSE RATING</p>	<p>D - MULTIPLE CIRCUIT NUMBERS ON A LINE INDICATE ONE WIRE DISTRIBUTING CURRENT TO TWO CIRCUITS.</p> 																																				
<p>E - SWITCHES, RELAYS AND COMPONENTS INDICATE EXTERNAL WIRE CONNECTIONS AND/OR INTERNAL CONNECTIONS OR CONTACTS.</p>  <p>WIRE CONNECTION    A12A    INTERNAL CONNECTION    A128    WIRE CONNECTION    BUSSED CONTACT    CONTACT    16BN    16RB    ETHER SWITCH    PIGTAIL    KEY SWITCH    A12    F18    F19    20A</p>	<p>F - CIRCUIT "11" DENOTES ANY COMMON GROUND, (MORE THAN ONE CIRCUIT). ANY INDIVIDUAL GROUND CIRCUIT IS IDENTIFIED WITH THAT PARTICULAR CIRCUIT NUMBER. (E.G CIRCUIT 97 CRUISE CONTROL, IS IDENTIFIED PER EXAMPLE).</p> <p>NOTE: FOR CIRCUIT DESCRIPTION OTHER THAN GROUNDS, NEITHER THE LETTER "G" NOR THE COLOR WHITE SHALL BE USED.</p> <p>GROUND CIRCUITS ARE DESCRIBED THIS:</p>  <p>COMMON GROUND CIRCUIT NUMBER    SUFFIX G IS NOT A SUFFIX BUT INDICATES A GROUND CIRCUIT.    LOCATION    INDIVIDUAL GROUND CIRCUIT NUMBER    SUFFIX G IS NOT A SUFFIX BUT INDICATES A GROUND CIRCUIT.</p>																																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">CHK</td> <td style="width: 10%;">DATE</td> <td style="width: 20%;">CHANGE</td> <td style="width: 5%;">REV</td> <td style="width: 10%;">REFERENCE</td> <td style="width: 10%;">DRAWN</td> <td colspan="3" style="width: 40%;">NAME</td> </tr> <tr> <td>PEC</td> <td>16JAN01</td> <td>PRODUCTION RELEASE</td> <td>A</td> <td>P54304U</td> <td>U00DLCK</td> <td colspan="3">42/43/44/85/8600 &amp; 73/74/7500 CIRC DIAGRAMS</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>RELEASE NO.</td> <td>DATE</td> <td>PART NO.</td> <td>SHEET</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>P52778H</td> <td>15MAY00</td> <td>AE08-52365</td> <td>07</td> </tr> </table>		CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME			PEC	16JAN01	PRODUCTION RELEASE	A	P54304U	U00DLCK	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS								RELEASE NO.	DATE	PART NO.	SHEET						P52778H	15MAY00	AE08-52365	07
CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME																															
PEC	16JAN01	PRODUCTION RELEASE	A	P54304U	U00DLCK	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS																															
					RELEASE NO.	DATE	PART NO.	SHEET																													
					P52778H	15MAY00	AE08-52365	07																													

Figure 7 Circuit Diagram Instructions

1.8. CIRCUIT DIAGRAM INSTRUCTIONS, P. 8

INTERNATIONAL TRUCK AND ENGINE CORPORATION 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.		ELECTRICAL CIRCUIT DIAGRAM      CHAPTER 1  CIRCUIT DIAGRAM INSTRUCTIONS						
<p>G - ABBREVIATIONS: COLOR, NOUN AND ENGINE</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <p>COLOR ABBREVIATION</p> <p>AQ - AQUA BK - BLACK BL - BLUE BN - BROWN DK GN - DARK GREEN GD - GOLD GY - GRAY GN - GREEN LT BL - LIGHT BLUE</p> </td> <td style="width: 33%; vertical-align: top;"> <p>NOUN ABBREVIATION</p> <p>LT GN - LIGHT GREEN OR - ORANGE PK - PINK PL - PURPLE RD - RED SIL - SILVER TN - TAN VT - VIOLET WH - WHITE YL - YELLOW</p> </td> <td style="width: 33%; vertical-align: top;"> <p>NOUN ABBREVIATION</p> <p>A  ACCESSORY ACC  AIR CONDITIONER AC - AUX  AUXILIARY AUX - AWG  AMERICAN WIRE GAUGE AWG - B  BATTERY BAT  CONNECTION OR CONNECTOR CONN- DRL  DAYTIME RUNNING LIGHTS DRL - ENG  ENGINE ENG - FWD  FORWARD FWD - GA  GAUGE GA -</p> </td> <td style="width: 33%; vertical-align: top;"> <p>G  GROUND GND  IGNITION I  IGNITION IGN  INDICATOR IND - L  LEFT L - LT  LIGHT LT - W/O  WITHOUT W/O - OPT  OPTIONAL OPT - R  RIGHT R - S  START OR SENDER S - THERMO  THERMOSTAT THERMO - W/  WITH W/ -</p> </td> </tr> </table> <p>ENGINE ABBREVIATION</p> <p>ISM - MFG (CUMMINS) 10.8 LITER ELECTRONIC ENGINE CONTROL</p> <p>N14E PLUS - MFG (CUMMINS) 14 LITER ELECTRONIC ENGINE CONTROL</p> <p>C-10,C-12 - MFG (CATERPILLAR) 10.3 LITER ELECTRONIC ENGINE CONTROL</p> <p>V8-AVNT - MFG (INTERNATIONAL) V8 6.0 LITER ELECTRONIC ENGINE CONTROL</p> <p>I6-HEUI - MFG (INTERNATIONAL) NGD I6 DT466 &amp; DT/HT530 ELECTRONIC ENGINE CONTROL</p>				<p>COLOR ABBREVIATION</p> <p>AQ - AQUA BK - BLACK BL - BLUE BN - BROWN DK GN - DARK GREEN GD - GOLD GY - GRAY GN - GREEN LT BL - LIGHT BLUE</p>	<p>NOUN ABBREVIATION</p> <p>LT GN - LIGHT GREEN OR - ORANGE PK - PINK PL - PURPLE RD - RED SIL - SILVER TN - TAN VT - VIOLET WH - WHITE YL - YELLOW</p>	<p>NOUN ABBREVIATION</p> <p>A  ACCESSORY ACC  AIR CONDITIONER AC - AUX  AUXILIARY AUX - AWG  AMERICAN WIRE GAUGE AWG - B  BATTERY BAT  CONNECTION OR CONNECTOR CONN- DRL  DAYTIME RUNNING LIGHTS DRL - ENG  ENGINE ENG - FWD  FORWARD FWD - GA  GAUGE GA -</p>	<p>G  GROUND GND  IGNITION I  IGNITION IGN  INDICATOR IND - L  LEFT L - LT  LIGHT LT - W/O  WITHOUT W/O - OPT  OPTIONAL OPT - R  RIGHT R - S  START OR SENDER S - THERMO  THERMOSTAT THERMO - W/  WITH W/ -</p>	
<p>COLOR ABBREVIATION</p> <p>AQ - AQUA BK - BLACK BL - BLUE BN - BROWN DK GN - DARK GREEN GD - GOLD GY - GRAY GN - GREEN LT BL - LIGHT BLUE</p>	<p>NOUN ABBREVIATION</p> <p>LT GN - LIGHT GREEN OR - ORANGE PK - PINK PL - PURPLE RD - RED SIL - SILVER TN - TAN VT - VIOLET WH - WHITE YL - YELLOW</p>	<p>NOUN ABBREVIATION</p> <p>A  ACCESSORY ACC  AIR CONDITIONER AC - AUX  AUXILIARY AUX - AWG  AMERICAN WIRE GAUGE AWG - B  BATTERY BAT  CONNECTION OR CONNECTOR CONN- DRL  DAYTIME RUNNING LIGHTS DRL - ENG  ENGINE ENG - FWD  FORWARD FWD - GA  GAUGE GA -</p>	<p>G  GROUND GND  IGNITION I  IGNITION IGN  INDICATOR IND - L  LEFT L - LT  LIGHT LT - W/O  WITHOUT W/O - OPT  OPTIONAL OPT - R  RIGHT R - S  START OR SENDER S - THERMO  THERMOSTAT THERMO - W/  WITH W/ -</p>					
CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME		
PEC	16JAN01	PRODUCTION RELEASE.	A	P54304U	U00JXP9	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS		
					RELEASE NO.	DATE	PART NO.	SHEET
					P52778H	10AUG00	AE08-52365	08

Figure 8 Circuit Diagram Instructions (Cont.)

1.9. SCHEMATIC SYMBOL CHART, P. 9

INTERNATIONAL TRUCK AND ENGINE CORPORATION				ELECTRICAL CIRCUIT DIAGRAM		CHAPTER 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.				SCHEMATIC SYMBOL CHART			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	MALE/FEMALE IN-LINE CONNECTION		HORN		MAGNETIC SWITCH		
	FEMALE TERMINAL		GROUND		LIGHT - DOUBLE FILAMENT		
	MALE TERMINAL						
	FUSE		SENDER - OIL, WATER, FUEL, TEMPERATURE				
	LIGHT EMITTING DIODE						
	RESISTOR		MOTOR - ELECTRIC				
	SWITCH CONTACT, NORMALLY OPEN						
	SWITCH CONTACT, NORMALLY CLOSED		SOLENOID - GENERAL USAGE				
	JUNCTION POINT						
	SPLICE		LIGHT - SINGLE FILAMENT				
	SWITCH - PRESSURE						
	SWITCH - MANUAL/MECHANICAL		SPEAKER - SOUND SYSTEM				
	RELAY - SUPPRESSED						
	CIGAR LIGHTER		TERMINATING RESISTOR				
	FAN SWITCH						

Figure 9 Schematic Symbol Chart

1.10. RELAY FUNCTIONS, P. 10

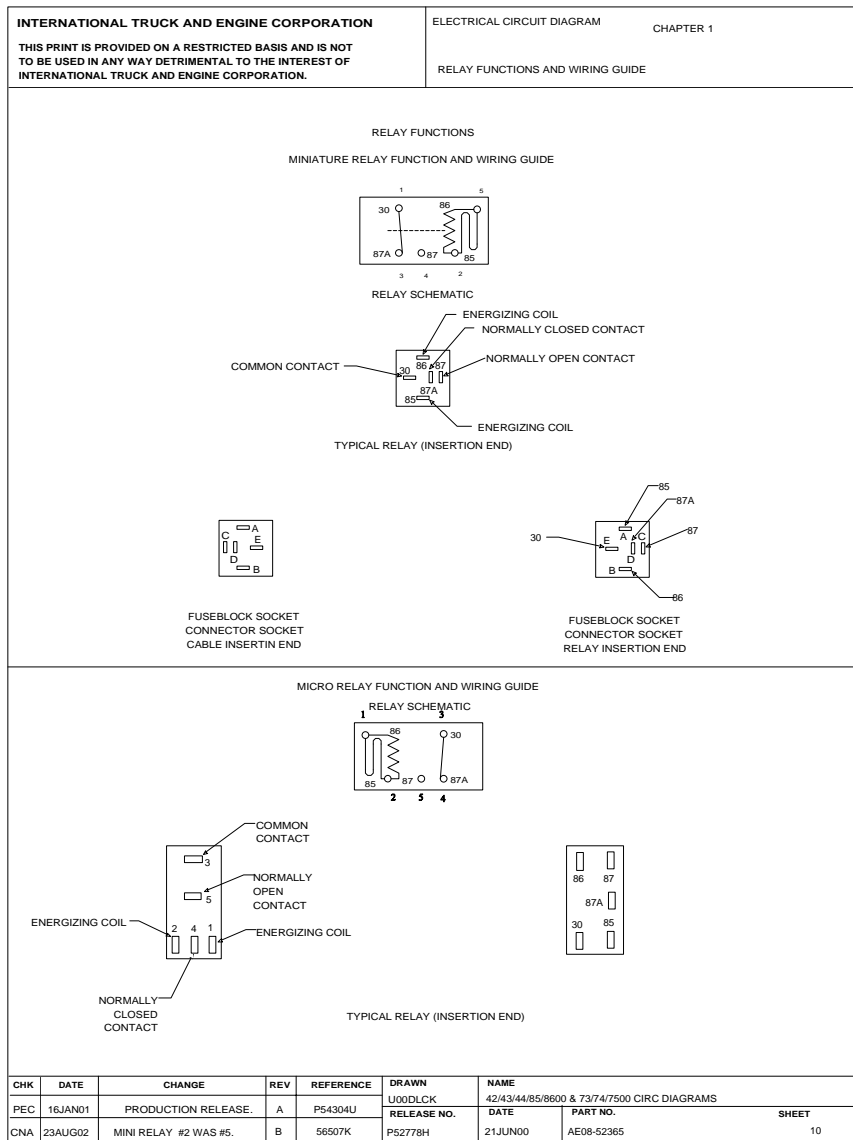


Figure 10 Relay Functions

1.11. LAMP BULB CHART, P. 11

INTERNATIONAL TRUCK AND ENGINE CORPORATION 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.		ELECTRICAL CIRCUIT DIAGRAM CHAPTER 1 LAMP BULB CHART							
BULB APPLICATION	CANDLEPOWER OR WATTS	BULB TRADE NUMBER							
BACK-UP LIGHTS	32 CANDLEPOWER	GE1156							
CLEARANCE & IDENTIFICATION	3 CANDLEPOWER	GE193							
COURTESY LIGHT	3 CANDLEPOWER	GE168							
DOVE LIGHTS	12 CANDLEPOWER	GE561							
FOG LIGHTS	55 CANDLEPOWER	VH550							
HEAD LIGHTS:									
LOW BEAMS	65 WATTS	GE9007							
HIGH BEAMS	65 WATTS	GE9007							
INSTRUMENT CLUSTER:									
GAUGE BACK LIGHT		082S270538-3							
GAUGE WARNING LED (RED)		082S272109-3							
RANGE INHIBIT LED (YELLOW)		082S272109-4							
COLD AMBIENT PROTECTION LED (YELLOW)		082S272109-4							
FUEL FILTER LED (YELLOW)		082S272109-4							
WARN ENGINE LED (YELLOW)		082S272109-4							
STOP ENGINE LED (RED)		082S272109-3							
BRAKE PRESSURE LED (RED)		082S272109-3							
BRAKE FLUID LED (RED)		082S272109-3							
WAIT TO START LED (YELLOW)		082S272109-4							
CHECK TRANSMISSION LED (YELLOW)		082S272109-4							
TRAILER ABS LED (YELLOW)		082S272109-4							
WASHER FLUID LED (YELLOW)		082S272109-4							
LEFT TURN SIGNAL LED (GREEN)		082S272109-2							
TRACTION CONTROL LED (GREEN)		082S272109-2							
WATER IN FUEL LED (YELLOW)		082S272109-4							
PARK FLUID LED LIGHT (RED)		082S272109-3							
CHECK ELECTRICAL SYSTEMS LED (YELLOW)		082S272109-4							
PARK BRAKE LED (RED)		082S272109-3							
CRUISE CTRL ACTIVE LED (GREEN)		082S272109-2							
ANTILOCK BRAKING SYSTEM LED (YELLOW)		082S272109-4							
RIGHT TURN LED (GREEN)		082S272109-2							
COOLANT LEVEL LED (RED)		082S272109-3							
SEAT BELT LED (RED)		082S272109-3							
HIGH BEAM ICON LED (BLUE)		082S272109-5							
CHECK AIR CONDITIONER LED (YELLOW)		082S272109-4							
RETARD OVER HEAT LED (RED)		082S272109-3							
PTO/THROTTLE LED (RED)		082S272109-3							
MAP LIGHT	3 CANDLEPOWER	1816							
SIDE MARKER		2458							
STOP & TURN/TAIL & LICENSE PLATE	32/3 CANDLEPOWER	1157							
TURN SIGNAL/MARKER (FENDER)		3157							
TURN SIGNAL & MARKER LIGHT		2356							
WORK (TRAILER HOOK-UP) LIGHT		4411							
CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME			
PEC	16JAN01	PRODUCTION RELEASE	A	P54304U	U00DLCK	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS			
PEC	18JUN01	REVISED DRWG SHEET.	B	P54634F	P52778H	RELEASE NO.	DATE	PART NO.	SHEET
							20JUN00	AE08-52365	11

Figure 11 Lamp Bulb Chart

**1.12. INTERNATIONAL V8 AND I6 ECM CONTROLLER CONNECTORS PIN NUMBER IDENTIFICATION, P.12**

INTERNATIONAL TRUCK AND ENGINE CORPORATION					ELECTRICAL CIRCUIT DIAGRAM			
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.					INTERNATIONAL V8 & I6 ECM CONTROLLER CONNECTORS PIN NUMBER IDENTIFICATION			
								CHAPTER 1
CONNECTOR X3 REFERENCE (6020)				CONNECTOR X4 REFERENCE (6021)				
ECM PIN #	TERM	DESCRIPTION	ECM PIN #	TERM	DESCRIPTION	ECM PIN #	TERM	DESCRIPTION
1	FPM	FUEL PUMP MONITOR	1	KL.B7	BATTERY POWER	1	KL.B7	BATTERY POWER
2	FLI	FUEL LEVEL INDICATOR	2	KL.B7	BATTERY POWER	3		NOT POPULATED
3	KL.15	IGNITION FEED	3		NOT POPULATED	4	VBREF	SENSOR REFERENCE VOLTAGE
4	ECL	ENGINE COOLANT LEVEL	4	VBREF	SENSOR REFERENCE VOLTAGE	5		NOT POPULATED
5	MPR	MAIN POWER RELAY	5		NOT POPULATED	6	LSL_SPARE2	LOW SPEED INPUT 2
6	KL.31	GROUND	6	LSL_SPARE2	LOW SPEED INPUT 2	7		NOT POPULATED
7	KL.31	GROUND	7		NOT POPULATED	8		NOT POPULATED
8	DDS	DRIVELINE DISENGAGE SWITCH	8		NOT POPULATED	9	VSS-	VEHICLE SPEED SENSOR-
9	FPC	FUEL PUMP CONTROL	9	VSS-	VEHICLE SPEED SENSOR-	10	VSS+	VEHICLE SPEED SENSOR+
10	TCSS	TORQUE CURVE SELECT SWITCH	10	VSS+	VEHICLE SPEED SENSOR+	11		NOT POPULATED
11	TACH	TACHOMETER CONTROL	11		NOT POPULATED	12	IVS	IDLE VALIDATION SWITCH
12	CAN1+	DRIVETRAIN J1939 DATALINK +	12	IVS	IDLE VALIDATION SWITCH	13		NOT POPULATED
13	CAN1-	DRIVETRAIN J1939 DATALINK -	13		NOT POPULATED	14	EFAN	ELECTRIC FAN CONTROL
14	RAS	RESUME/ACCELERATE	14	EFAN	ELECTRIC FAN CONTROL	15	LSO_SPARE4	LOW SIDE OUTPUT 4
15	CAN1-SHLD	DRIVETRAIN J1939 DATALINK SHLD	15	LSO_SPARE4	LOW SIDE OUTPUT 4	16		NOT POPULATED
16		NOT POPULATED	16		NOT POPULATED	17		NOT POPULATED
17	VSS_CAL	VEHICLE SPEED SENSOR CALIBRATION	17		NOT POPULATED	18	APS	ACCELERATION POSITION SENSOR
18	VRE	VEHICLE RETARDER ENABLE	18	APS	ACCELERATION POSITION SENSOR	19		NOT POPULATED
19	RPRE	REMOTE PRESET PTO ENABLE	19		NOT POPULATED	20	ATA+	J1708 DATALINK +
20	RVAR	REMOTE VARIABLE PTO ENABLE	20	ATA+	J1708 DATALINK +	21	ATA-	J1708 DATALINK -
21	SCS	SET/COAST	21	ATA-	J1708 DATALINK -	22		NOT POPULATED
22	ESHTR	ELECTRONIC SHUTTER RELAY	22		NOT POPULATED	23	GSC	GENSET SPEED CONTROL
23	ECl	ENGINE CRANK INHIBIT	23	GSC	GENSET SPEED CONTROL	24	KL.31B	SENSOR REFERENCE GROUND
24	BAP	BAROMETRIC AIR PRESSURE	24	KL.31B	SENSOR REFERENCE GROUND			

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME		
CNA	25FEB03	PIN 6 OF CONN X4 INOUT CHANGED TO INPUT	B	58928S	LUDDLOCK	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS		
					RELEASE NO.	DATE	PART NO.	SHEET
					P54304U	16JAN01	AE08-52365	12

**Figure 12 International V8 and I6 ECM Controller Connectors Pin Number Identification**

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

### 2.1. ACCESSORY, P. 1

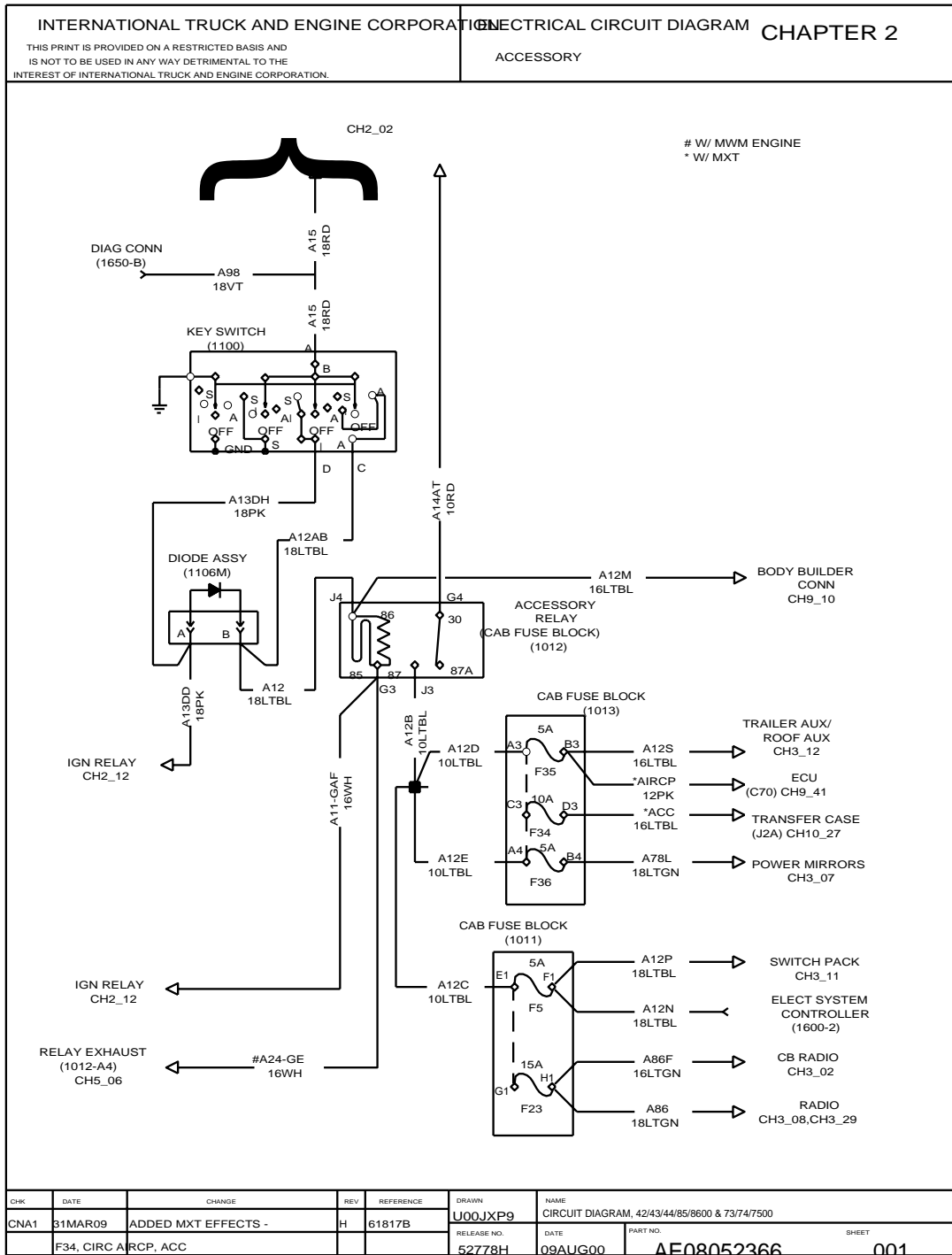


Figure 13 Accessory

2.2. BATTERY FEEDS, CAB, P. 2

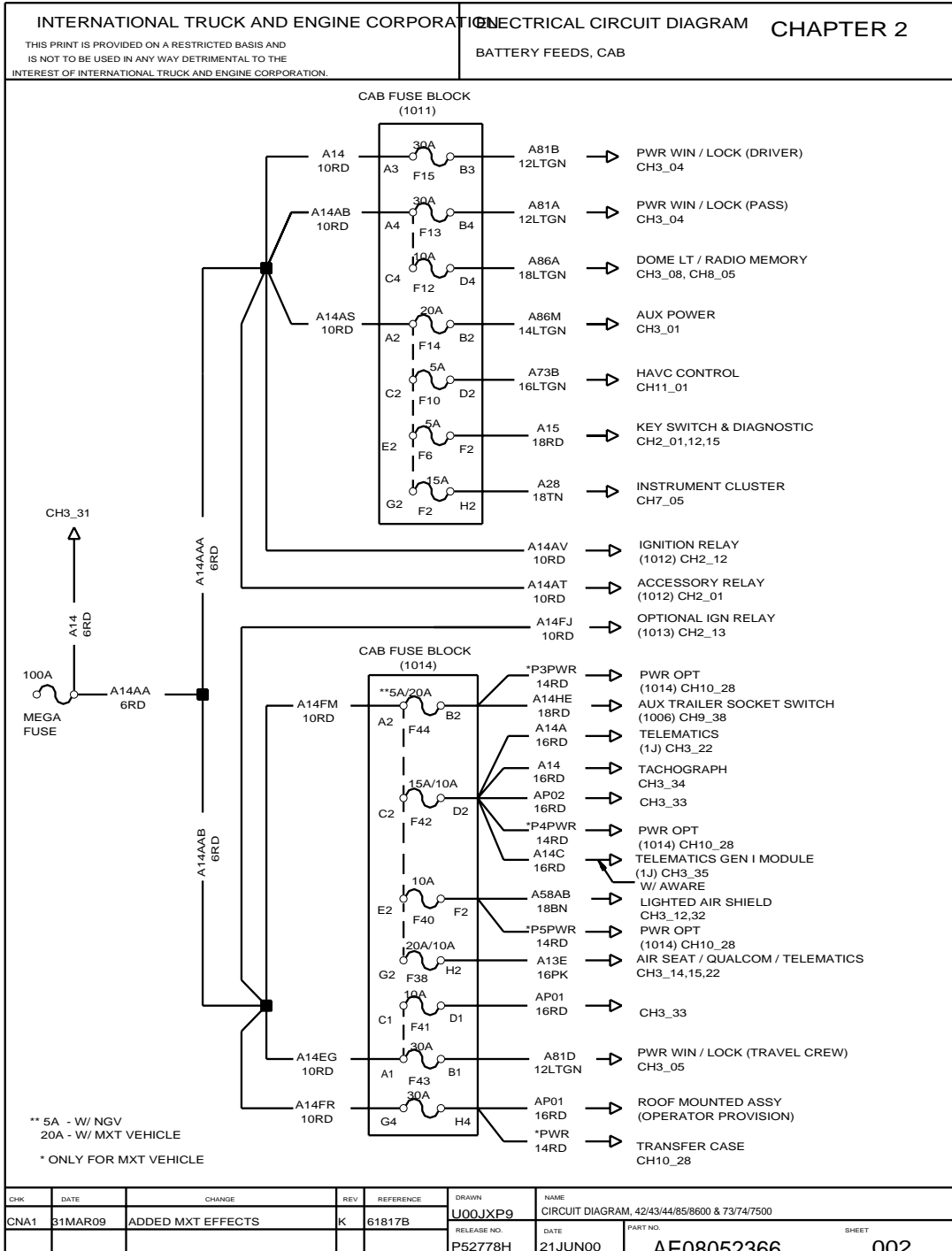


Figure 14 Battery Feeds, Cab





2.4. 1708 DATA LINK-CHASSIS, P. 4

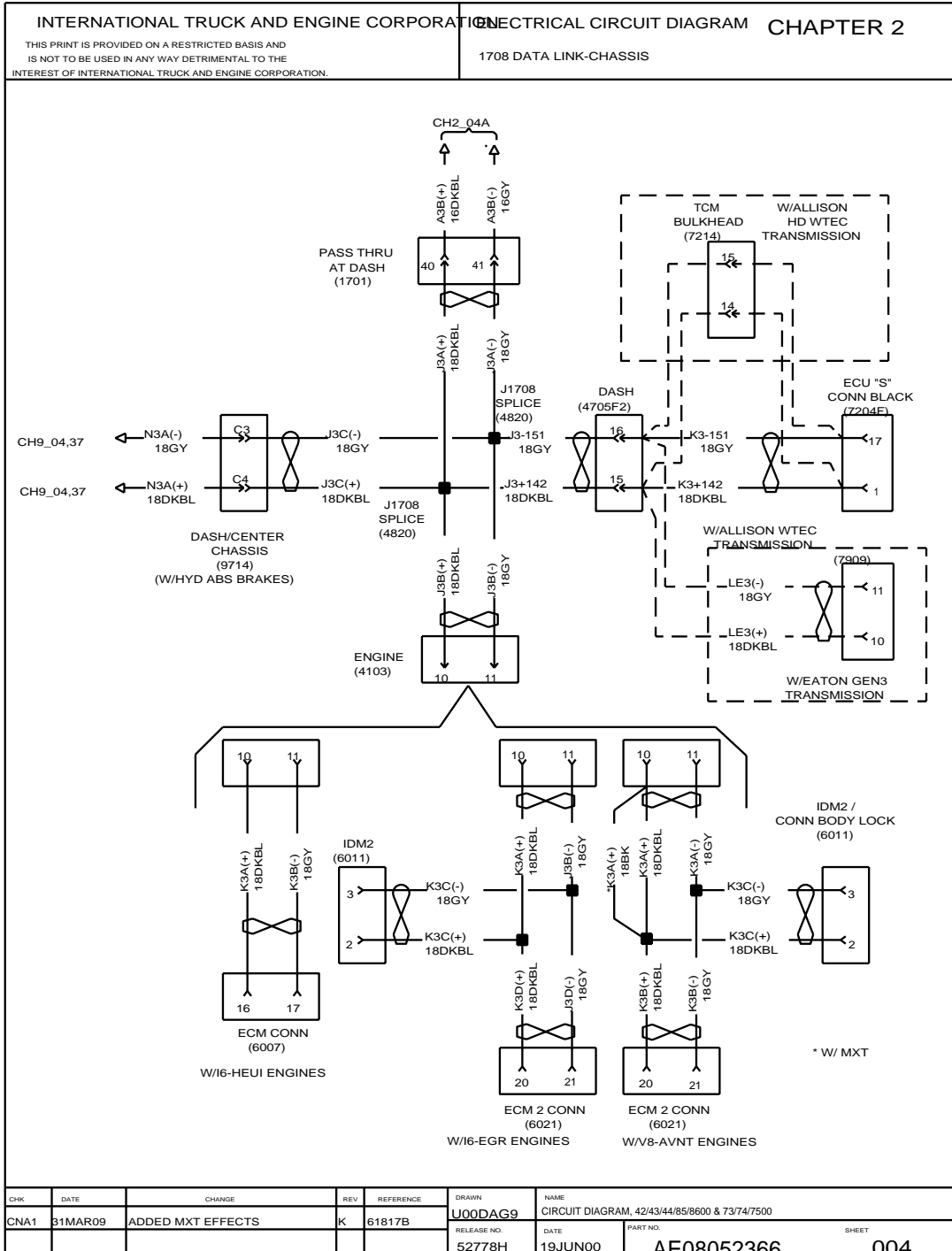


Figure 16 1708 Data Link-Chassis

2.5. J-1708 DATA LINK-CAB, P. 4A

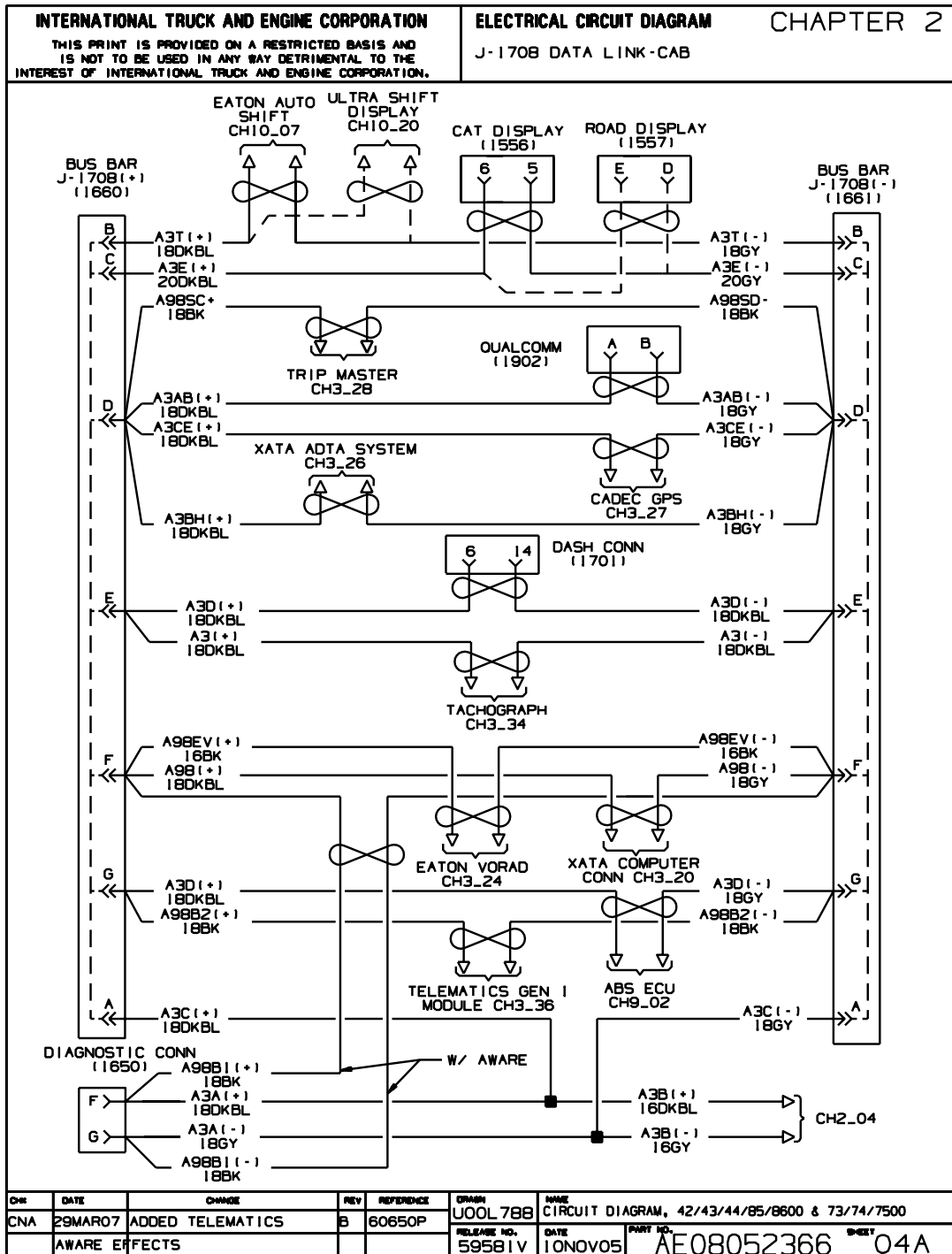


Figure 17 J-1708 Data Link-Cab

2.6. SWITCH DATA LINK, P. 5

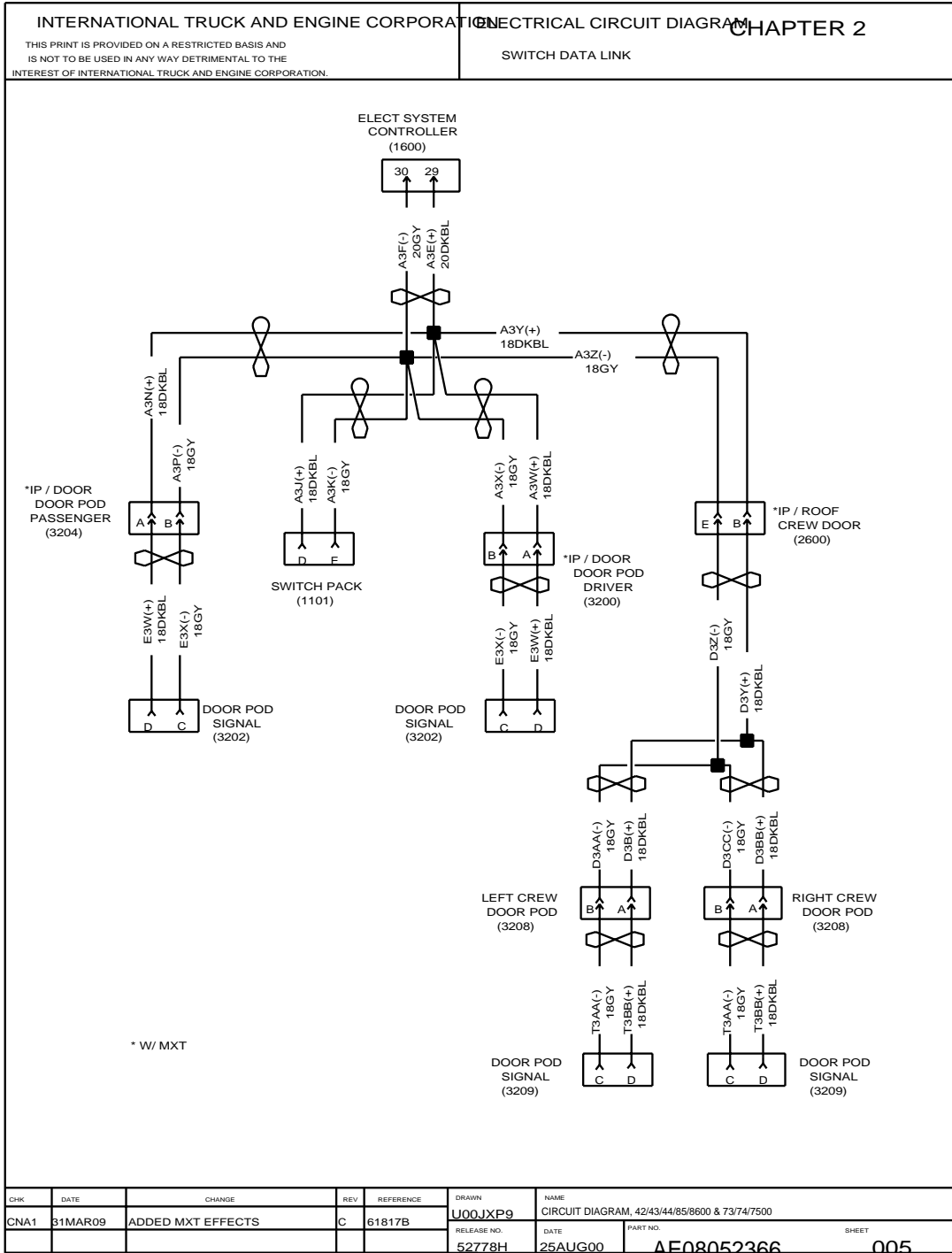


Figure 18 Switch Data Link

2.7. DRIVETRAIN 1939 DATA LINK (CAB), P. 6

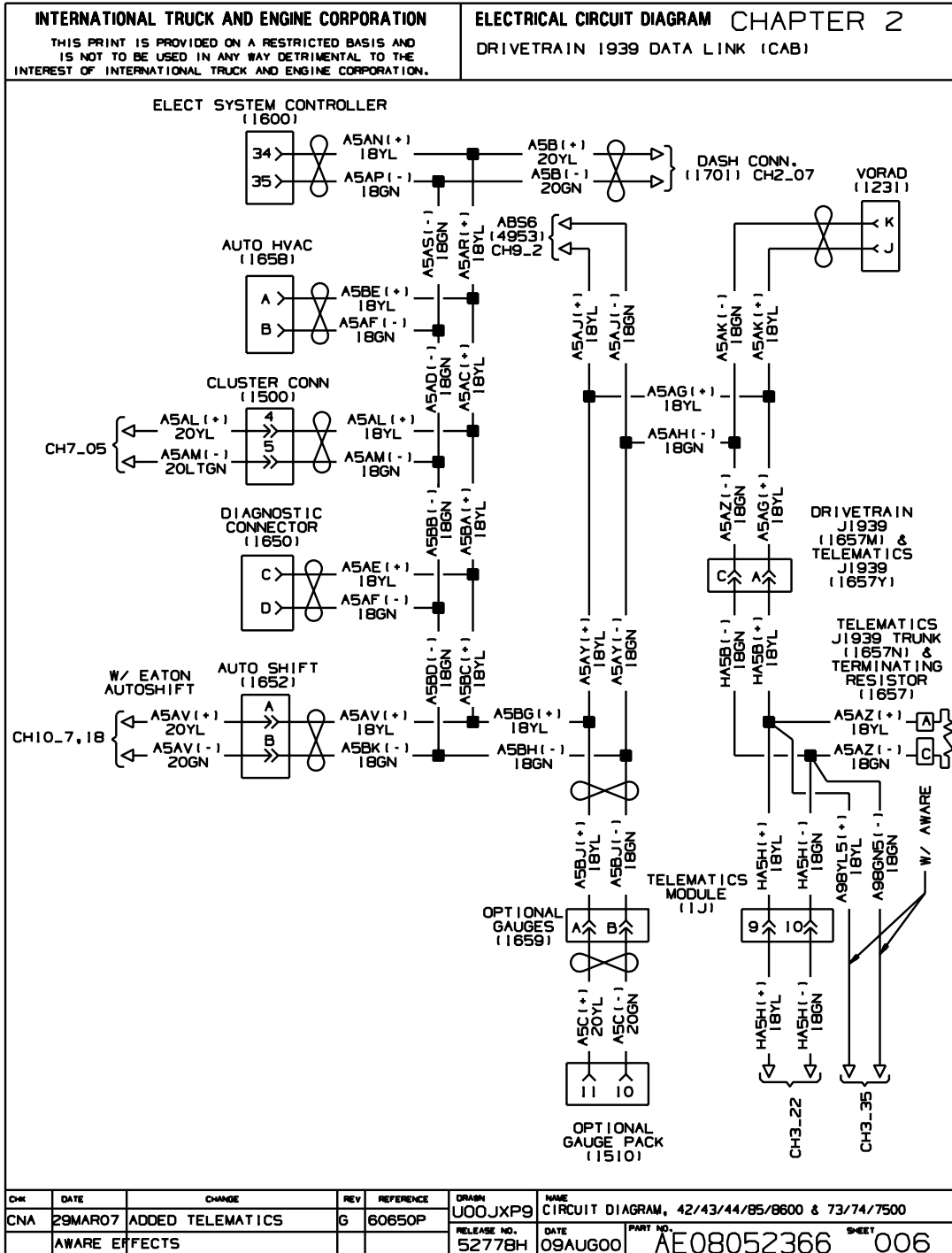


Figure 19 Drivetrain 1939 Data Link (Cab)

2.8. DRIVETRAIN 1939 DATA LINK (CHASSIS), P. 7

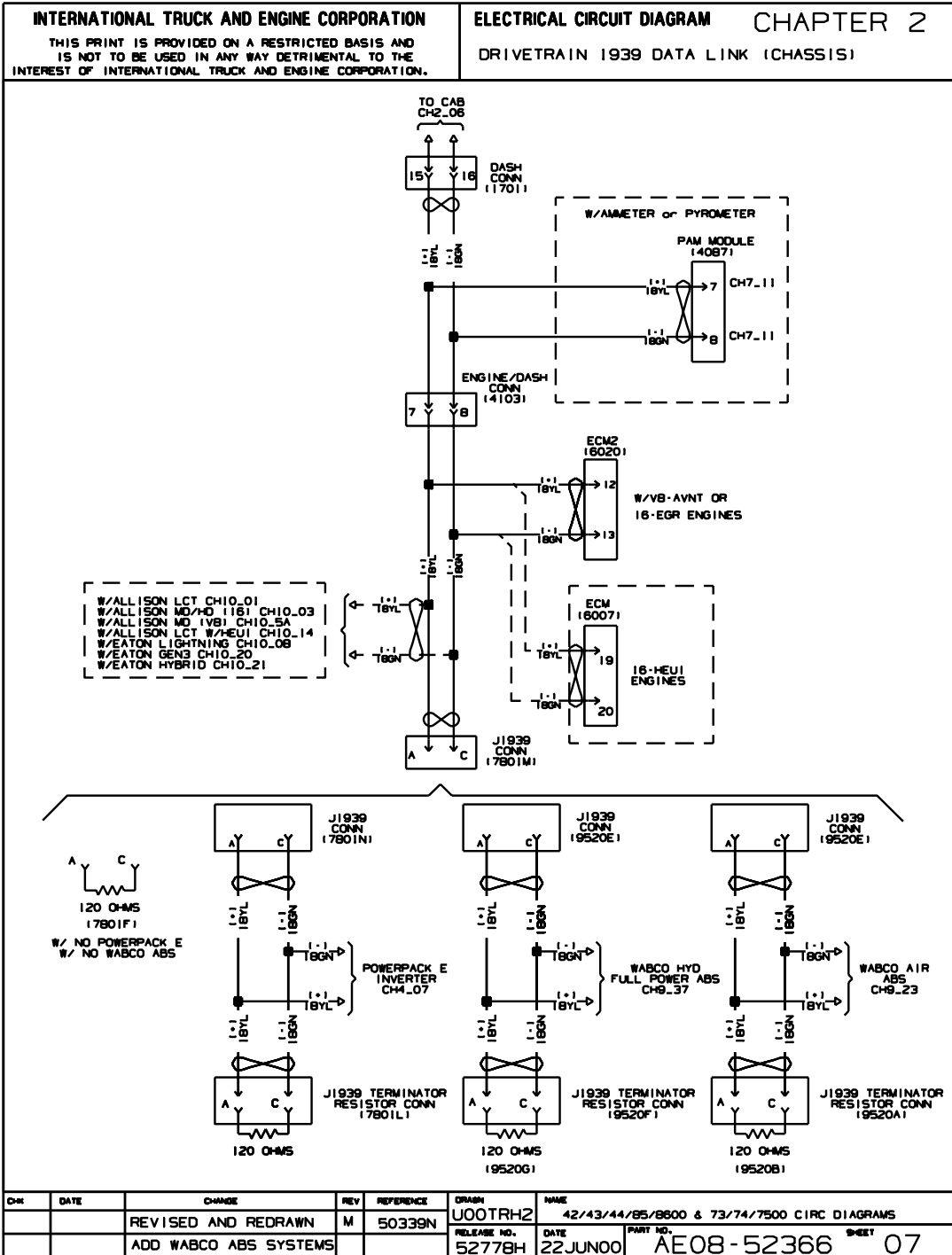


Figure 20 Drivetrain 1939 Data Link (Chassis)

2.9. J1939 DATA LINK — MXT, P. 7A

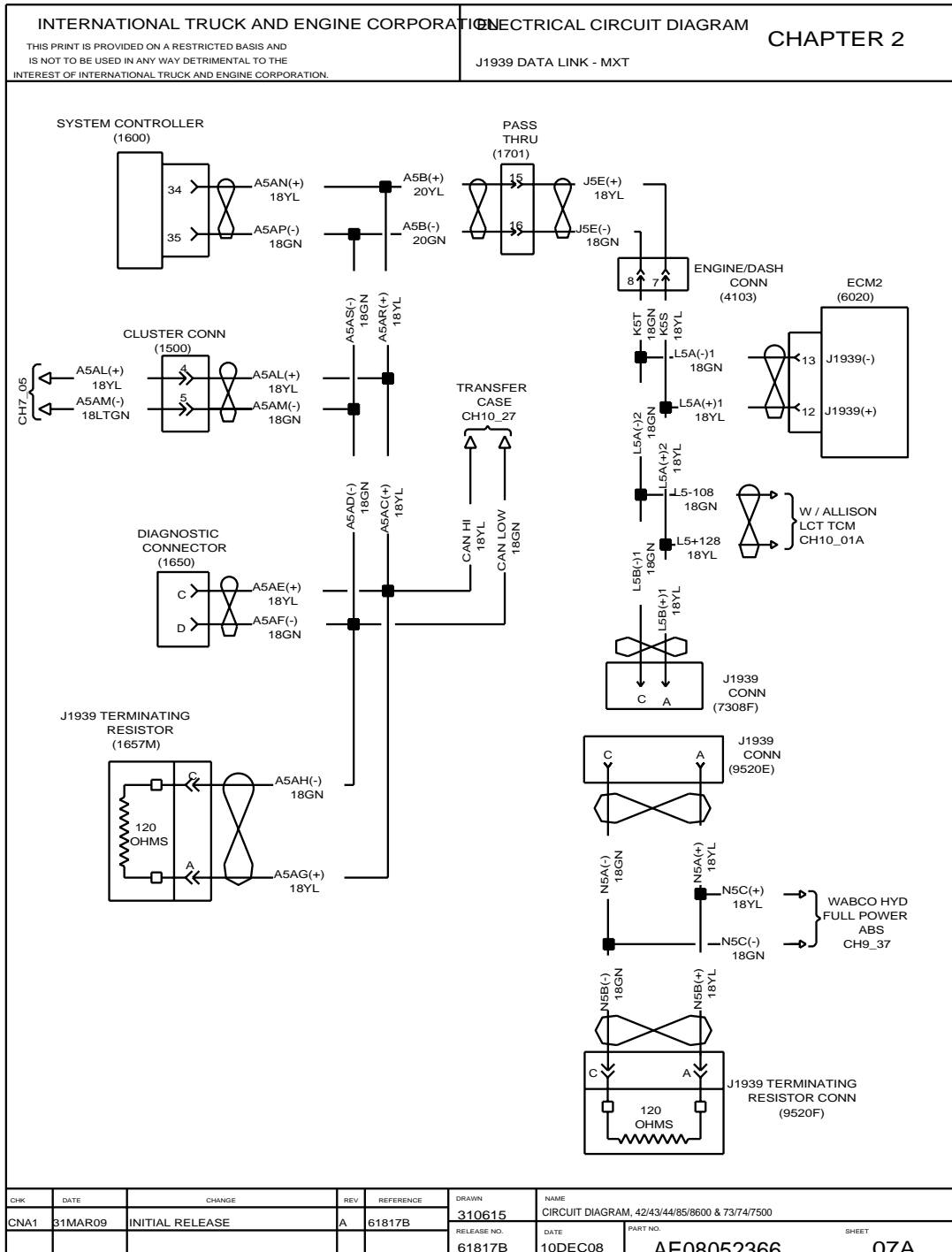


Figure 21 J1939 Data Link — MXT

2.10. GROUNDS, CHASSIS, P. 8

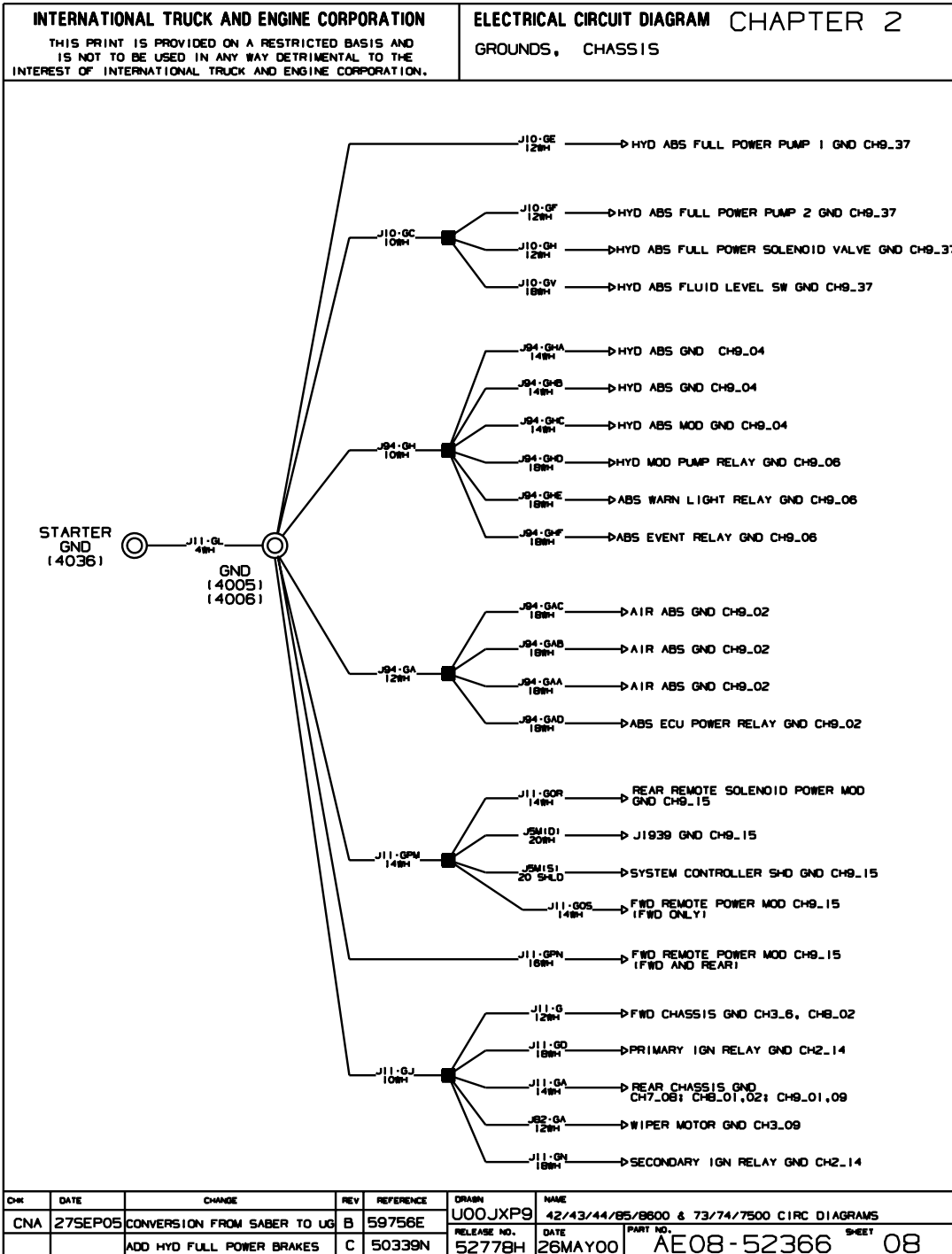


Figure 22 Grounds, Chassis



2.11. GROUNDS, CHASSIS, P. 9

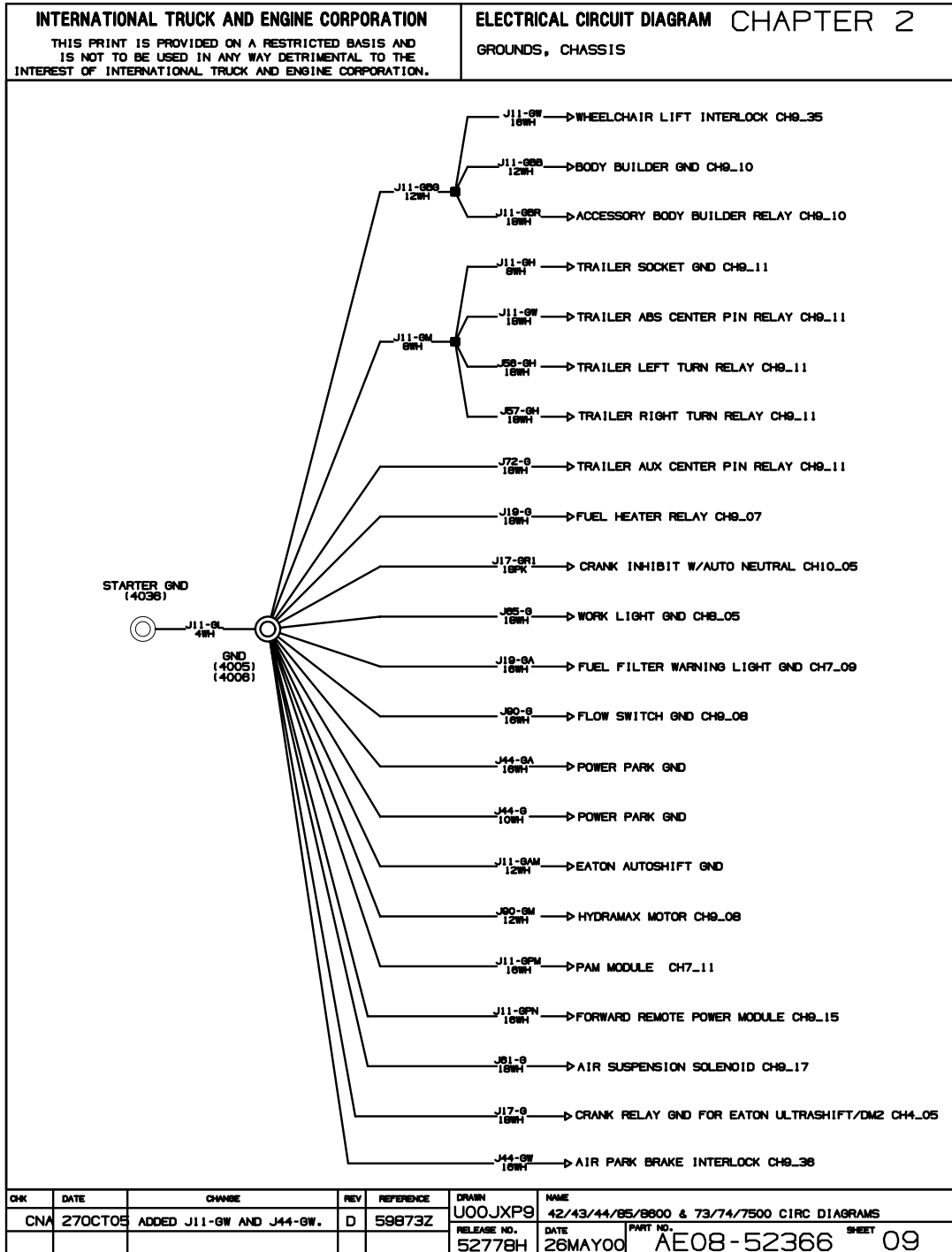


Figure 23 Grounds, Chassis (Cont.)

2.12. GROUNDS, IP, P. 10

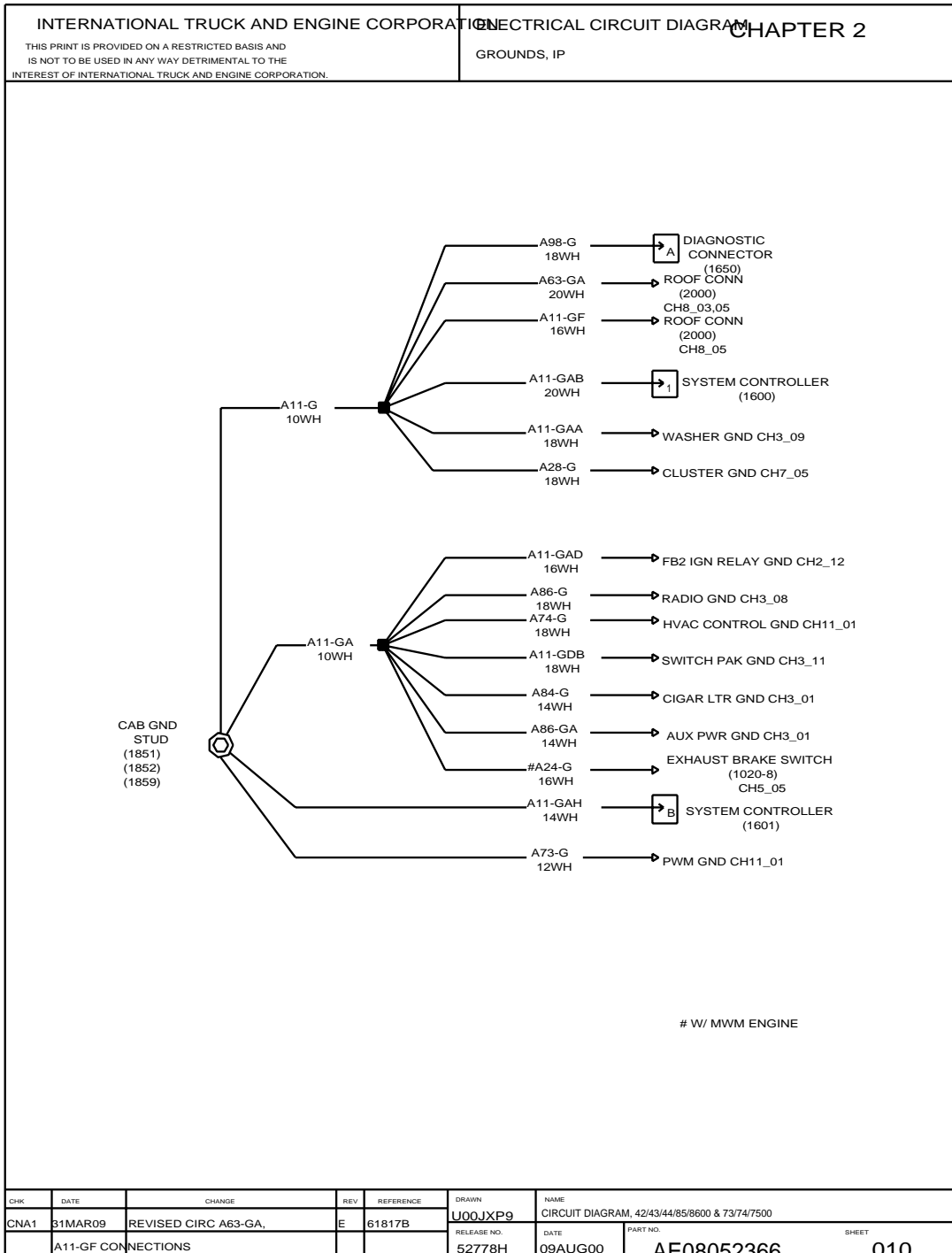


Figure 24 Grounds, IP

2.13. GROUNDS, IP, P. 11

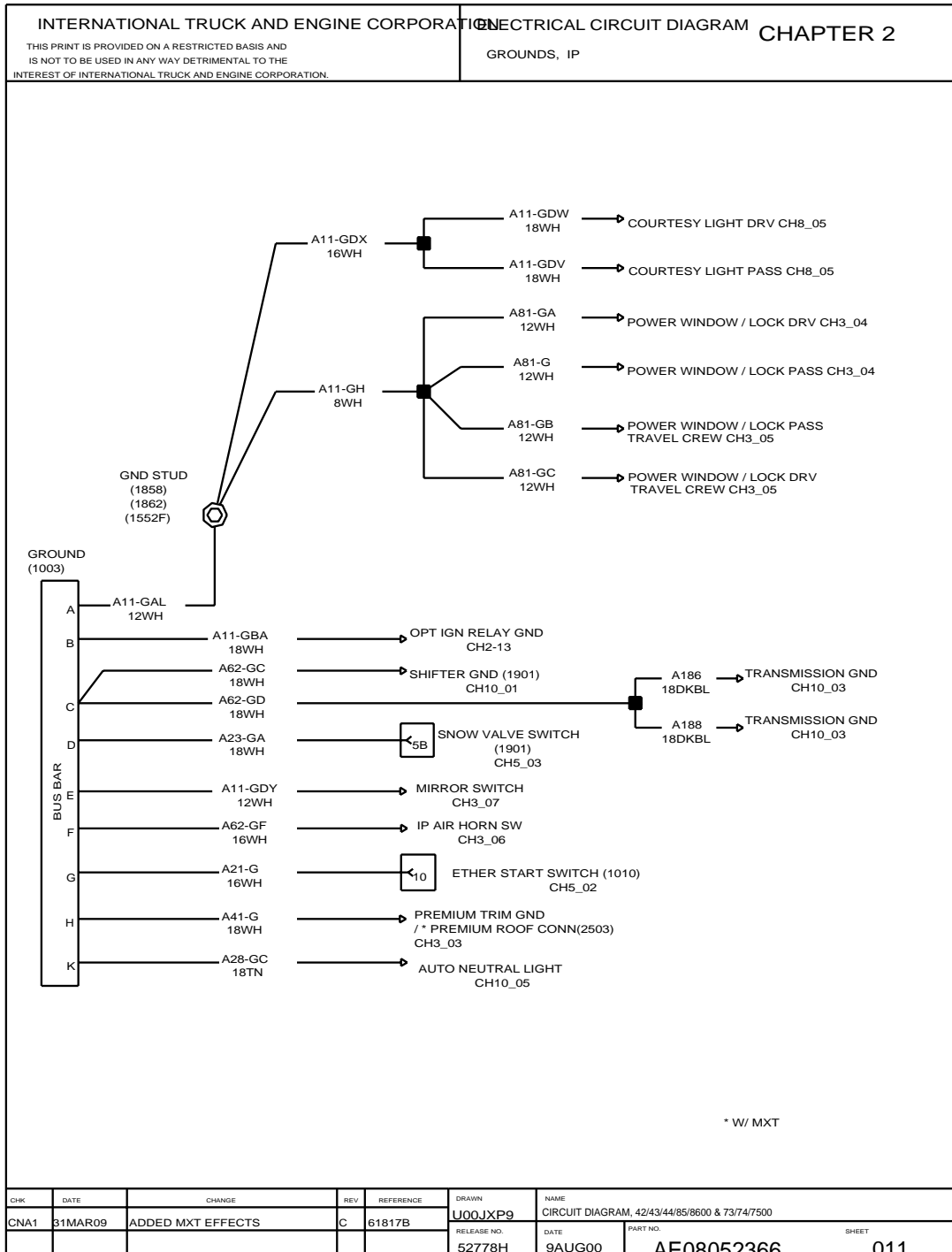


Figure 25 Grounds, IP

2.14. IGNITION CAB WITH THEFT DETERRENT, P. 12

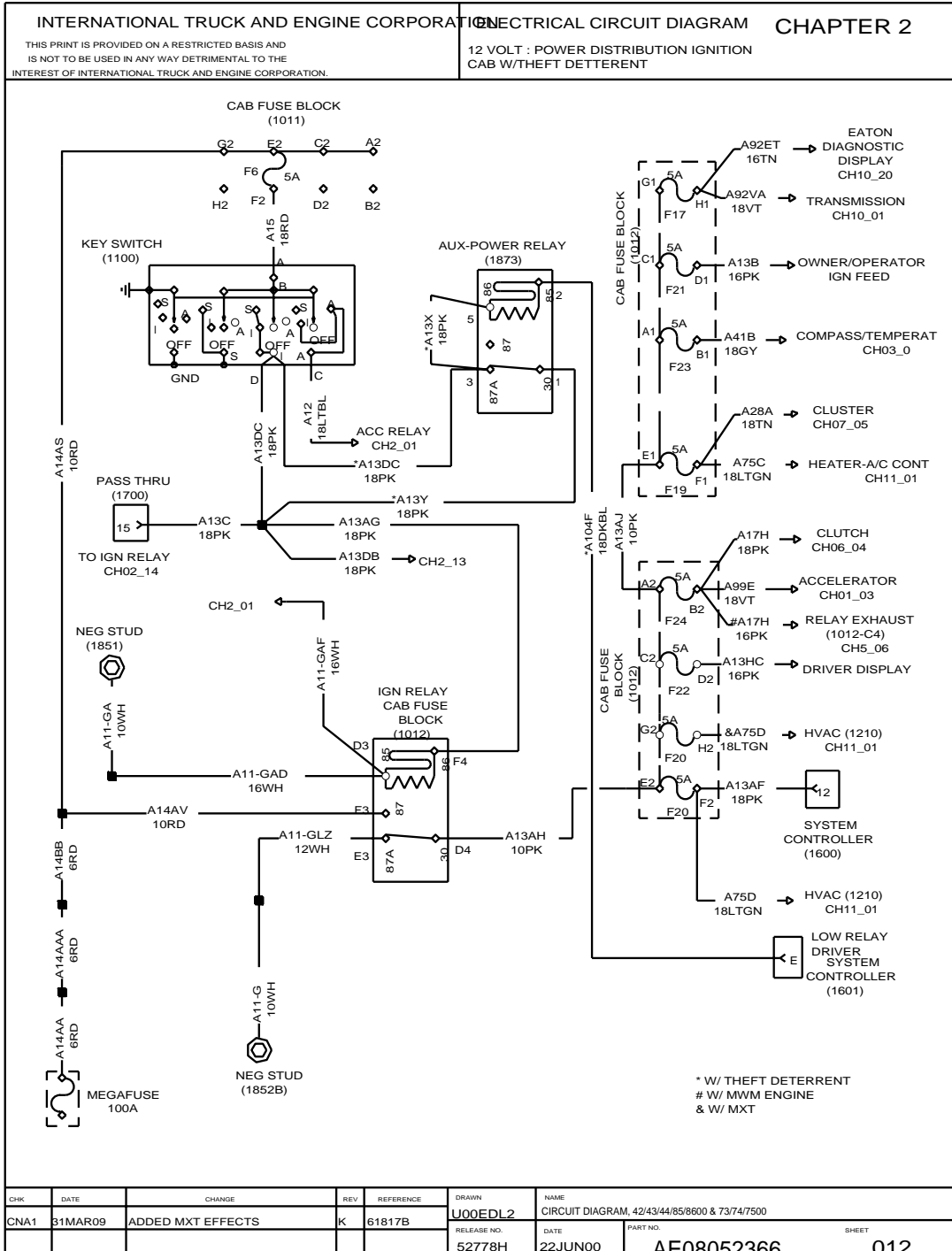


Figure 26 Ignition Cab with Theft Deterrent

2.15. IGNITION CAB, P. 13

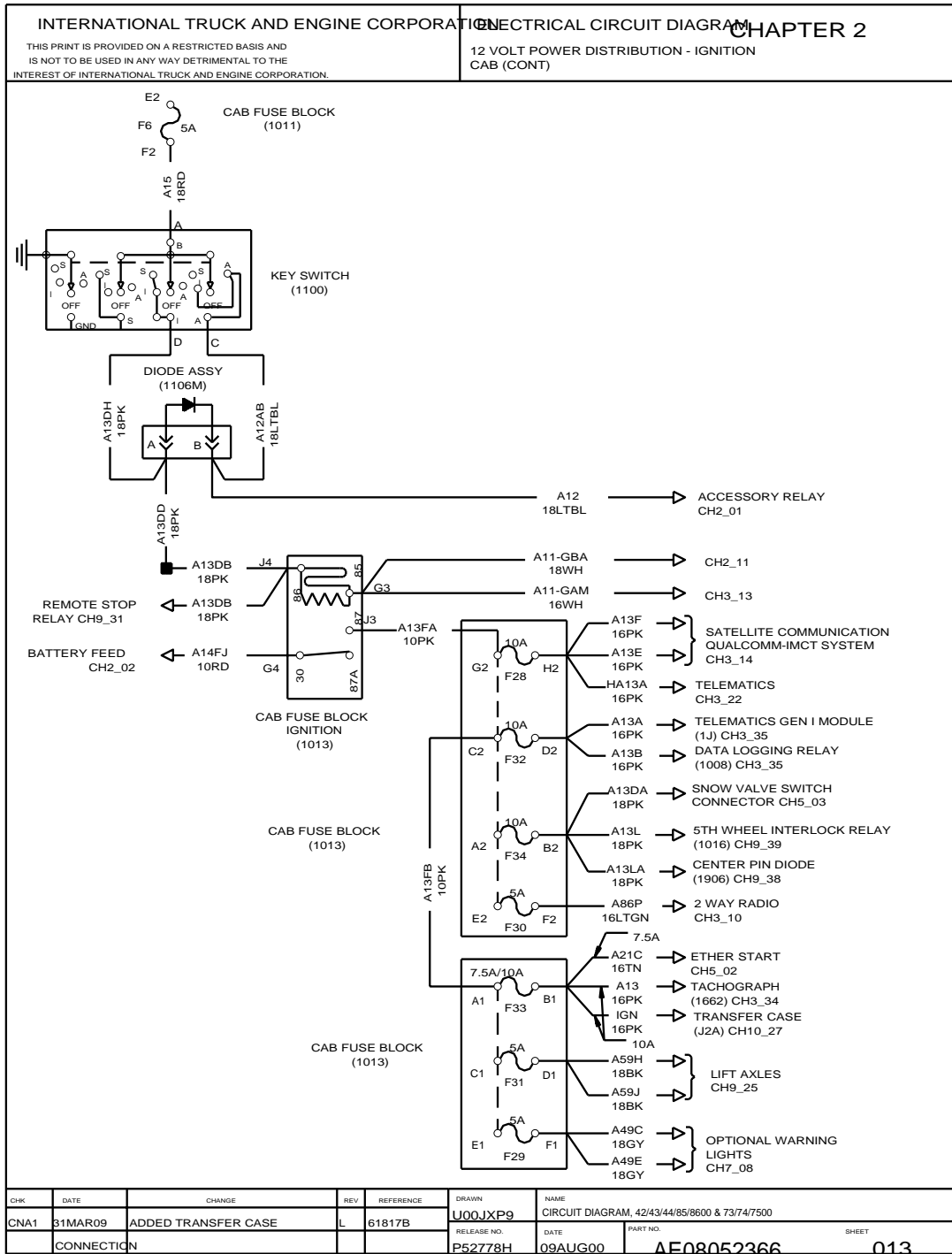


Figure 27 Ignition Cab (Cont.)

2.16. IGNITION FEEDS, CHASSIS, P. 14

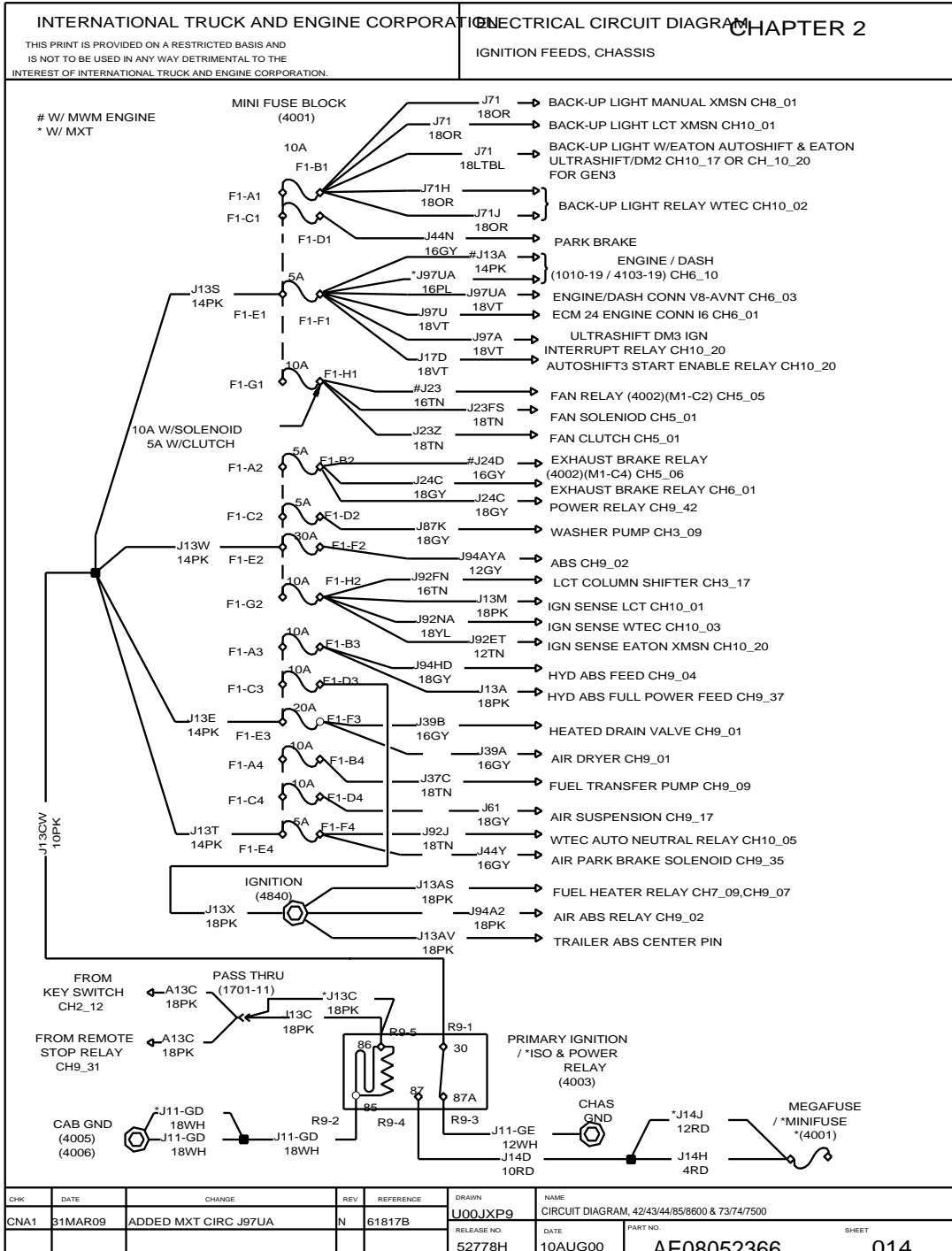


Figure 28 Ignition Feeds, Chassis

2.17. START, P. 15

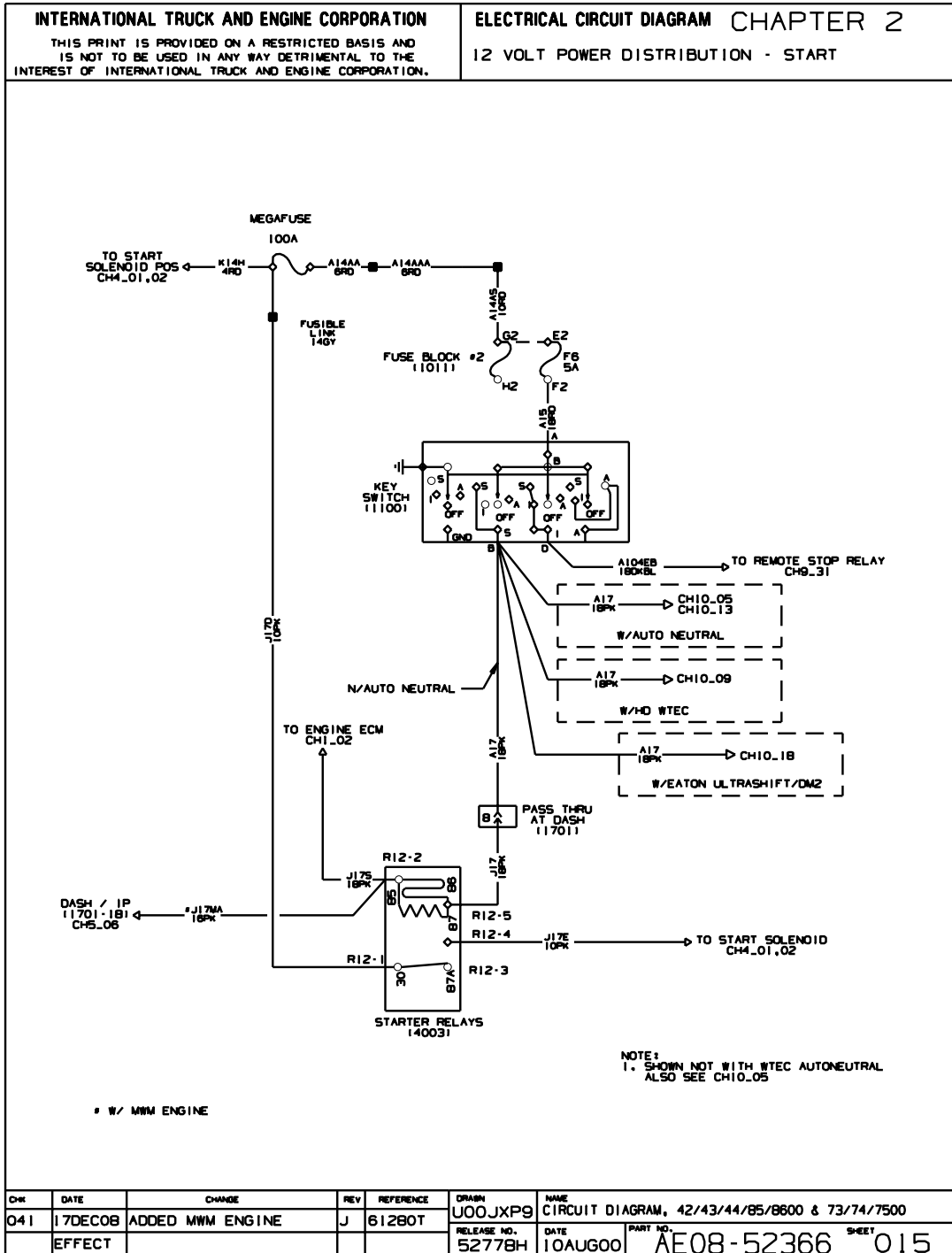


Figure 29 Start

### 3. CAB ACCESSORIES (CHAPTER 3)

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

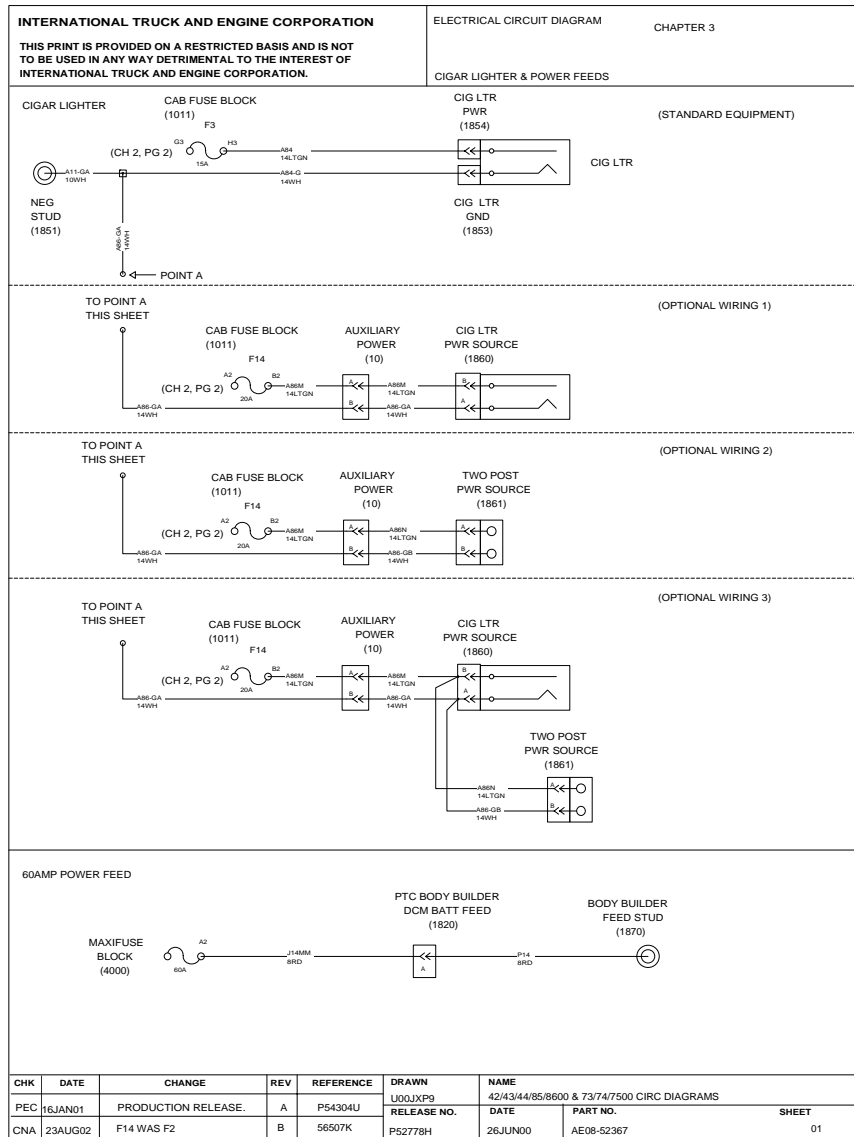


Figure 30 Cigar Lighter and Power Feeds



3.2. CB POWER, P. 2

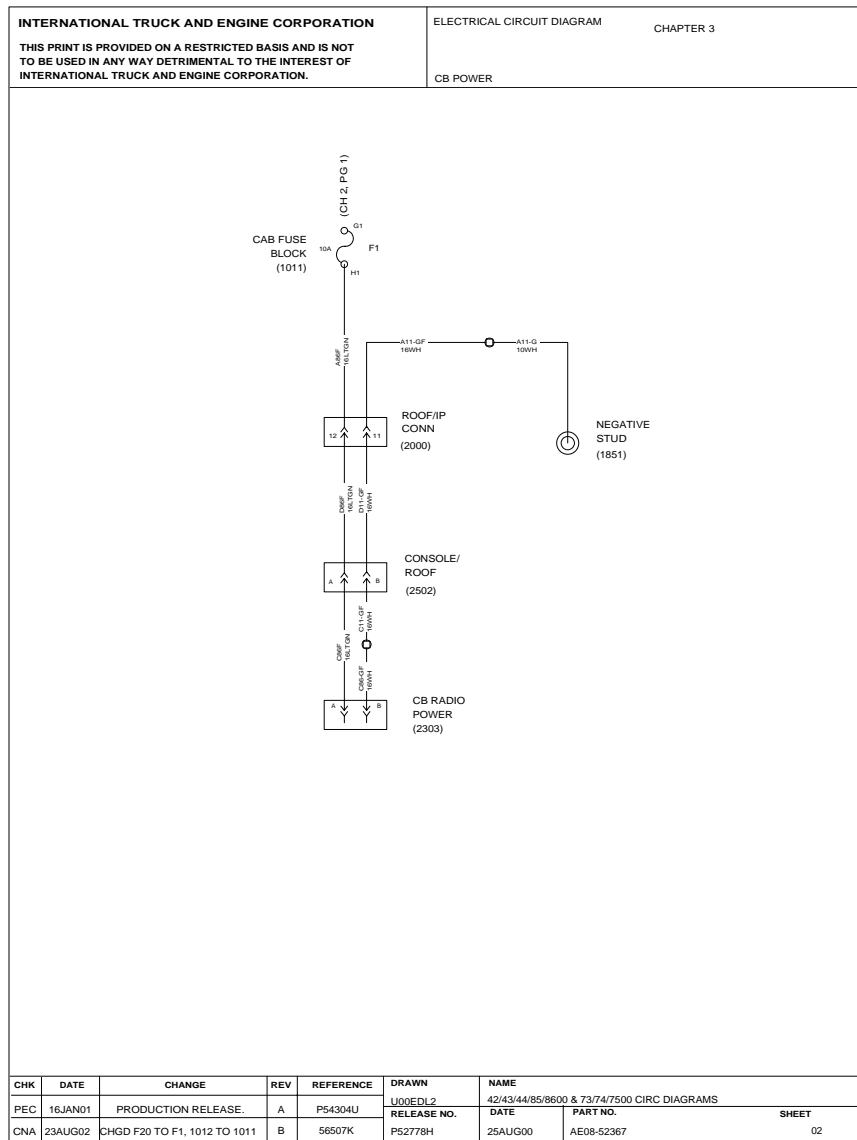


Figure 31 CB Power

3.3. COMPASS AND TEMPERATURE DISPLAY, P. 3

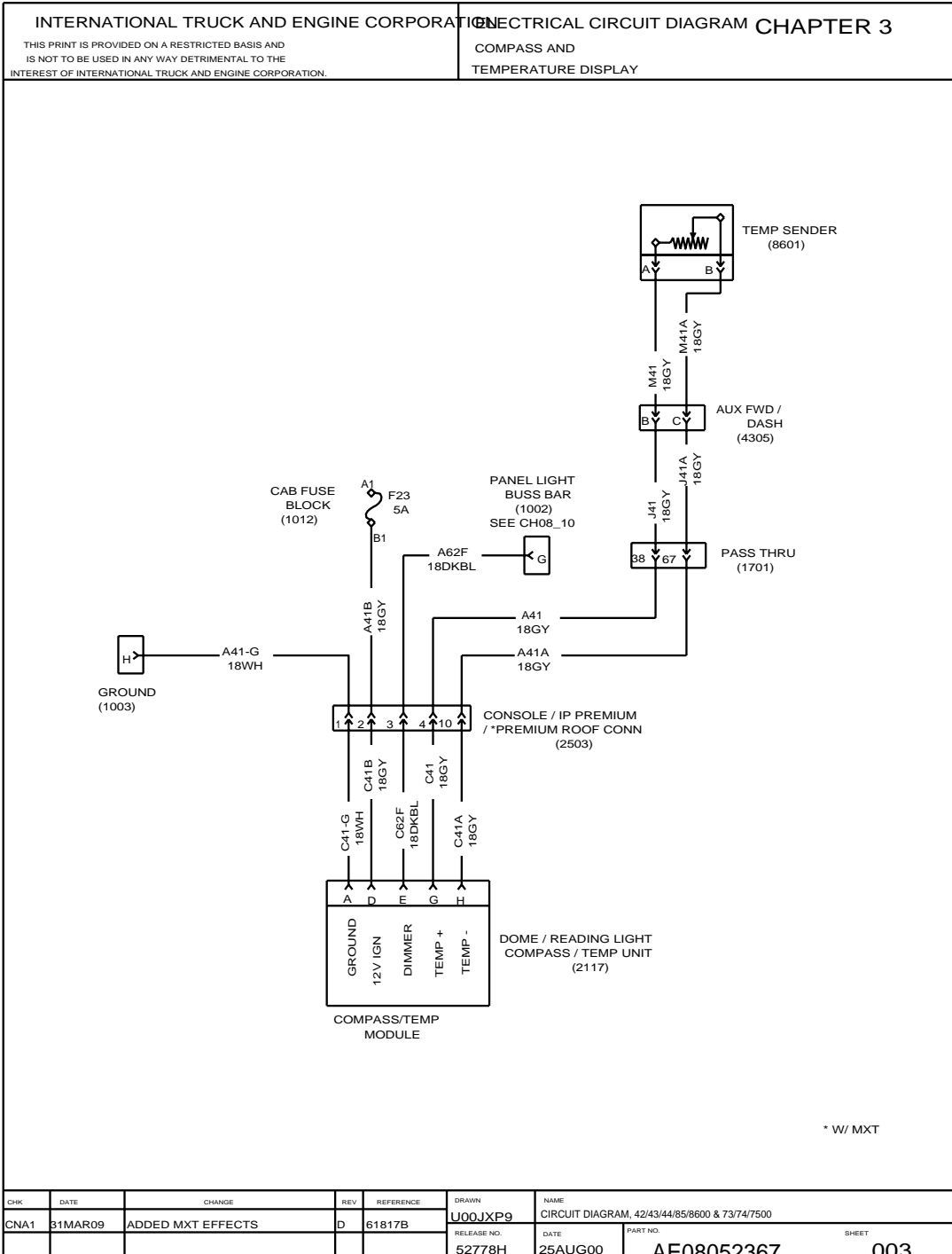


Figure 32 Compass and Temperature Display

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

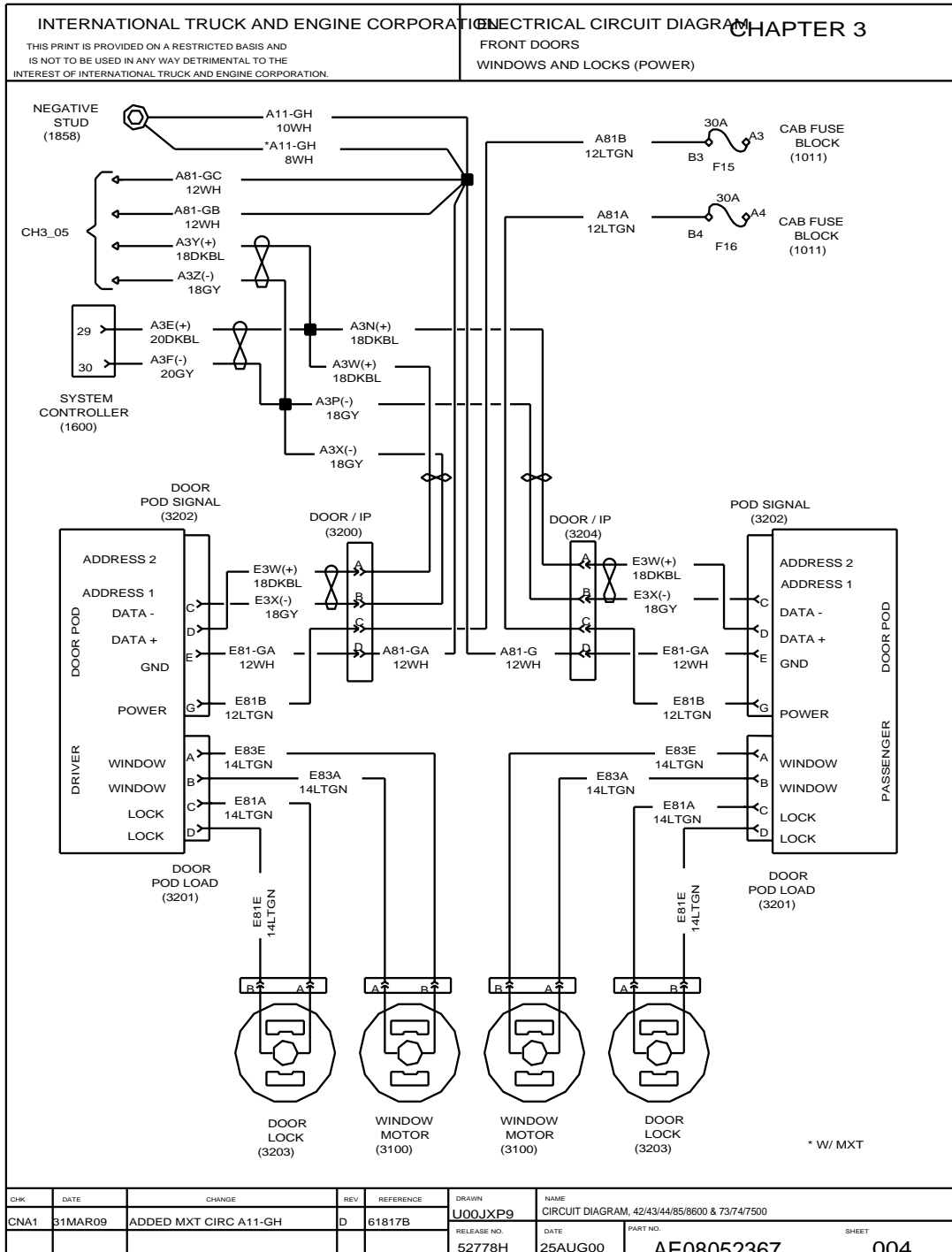


Figure 33 Front Doors Windows and Locks (Power)

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

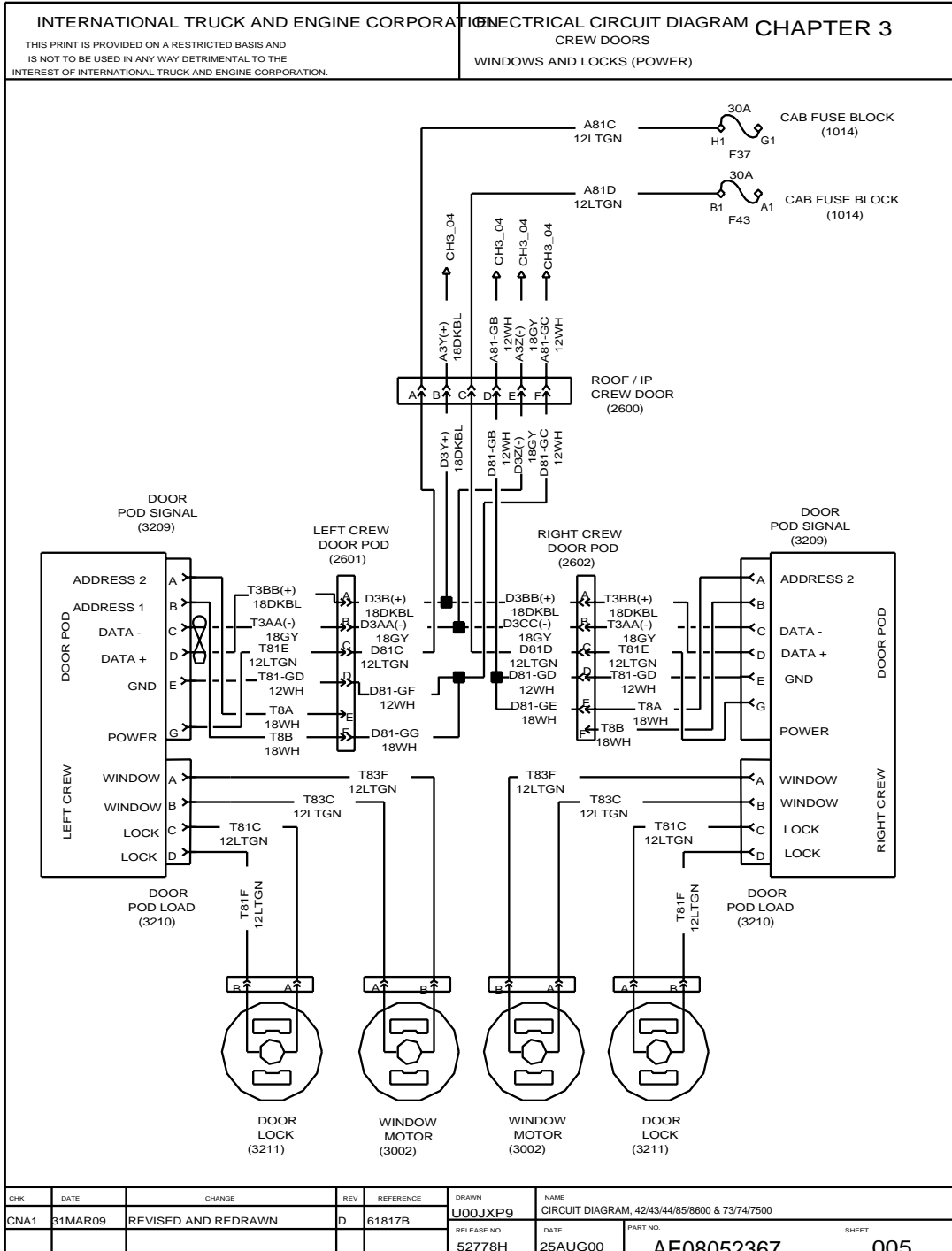


Figure 34 Crew Doors Windows and Locks (Power)

3.6. HORN, DUAL ELECTRIC, P. 6

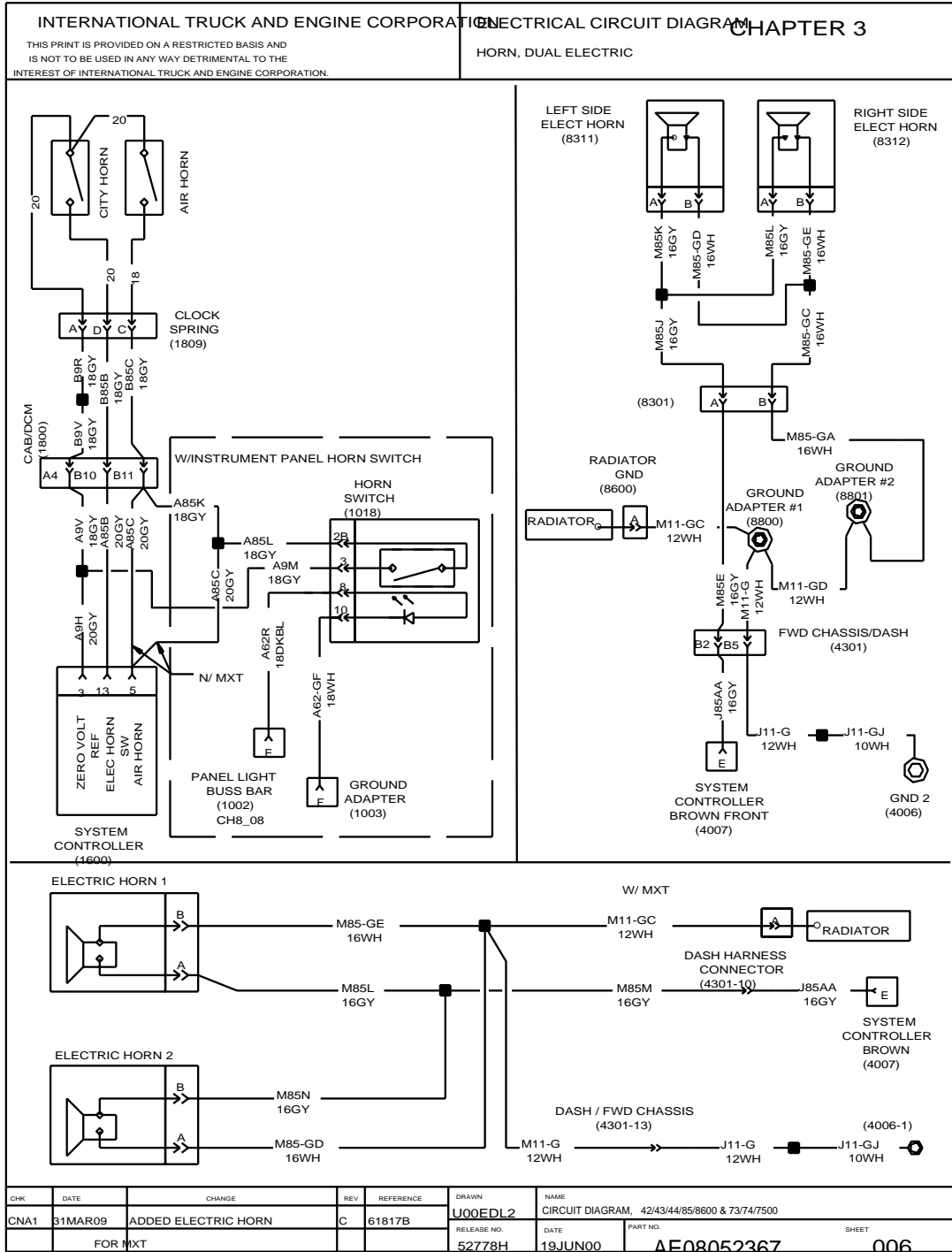


Figure 35 Horn, Dual Electric

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

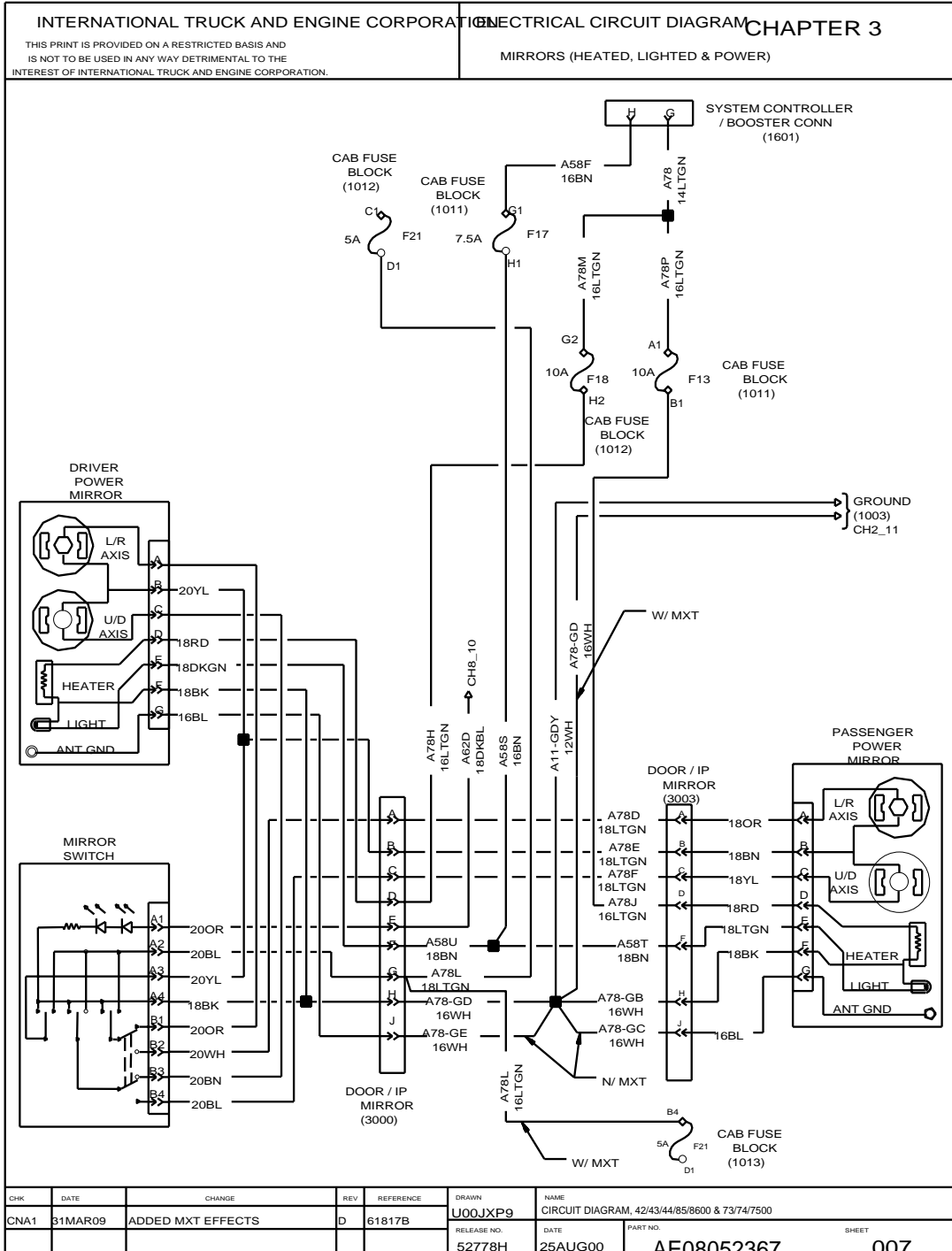


Figure 36 Mirrors (Heated, Lighted and Power)

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

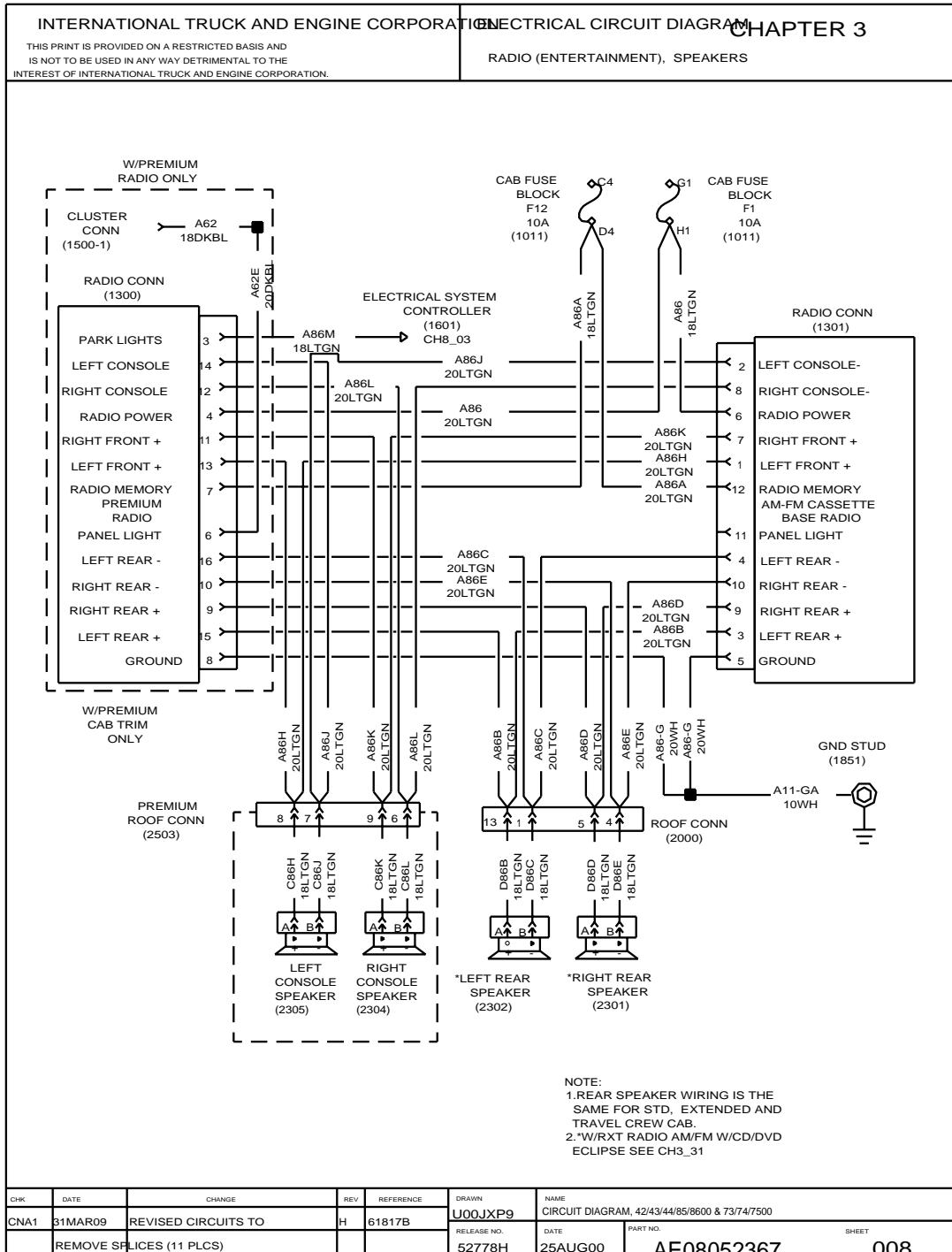


Figure 37 Radio (Entertainment), Speakers

3.9. WINDSHIELD WIPER AND WASHER PUMP, P. 9

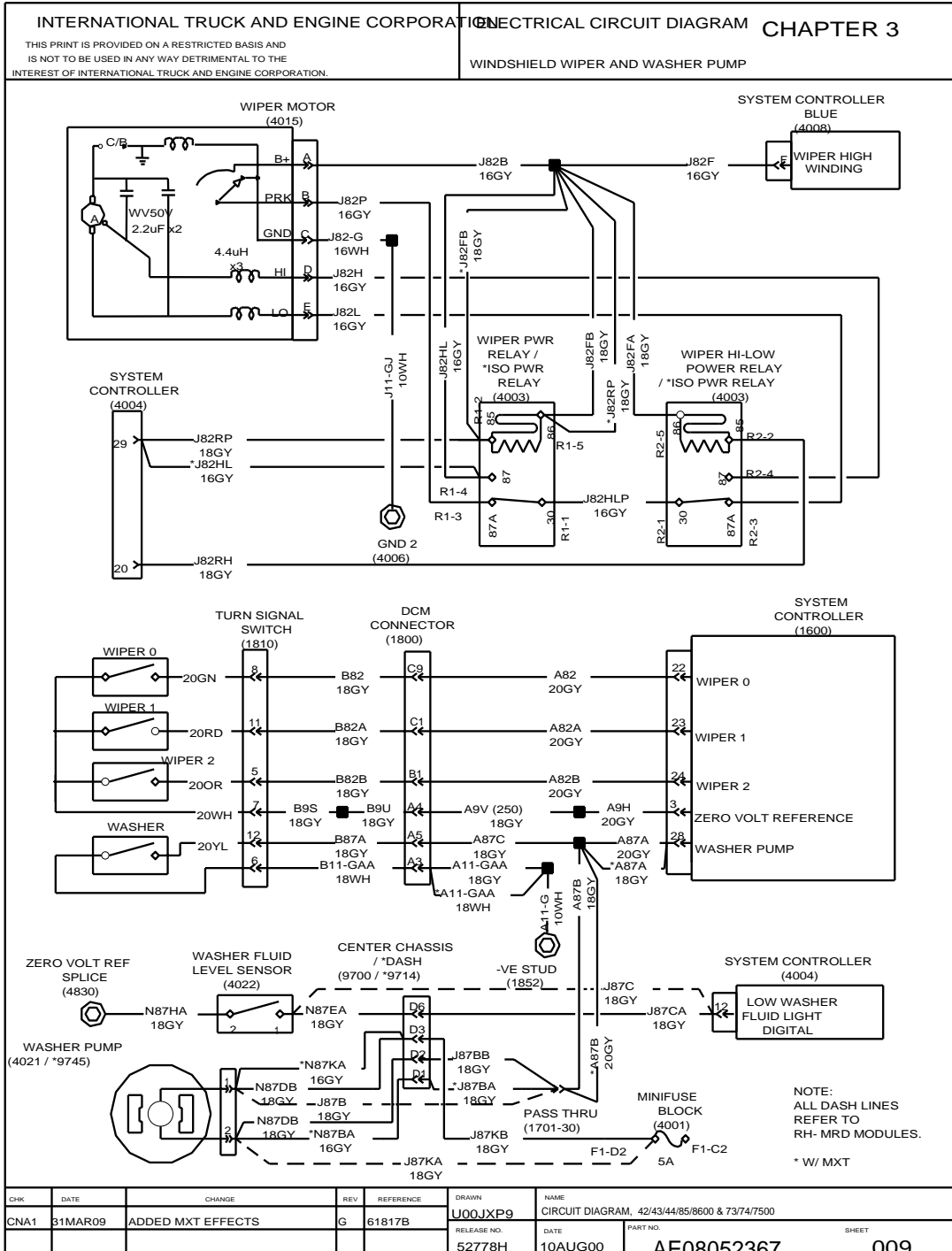


Figure 38 Windshield Wiper and Washer Pump



3.10. 2-WAY RADIO, P. 10

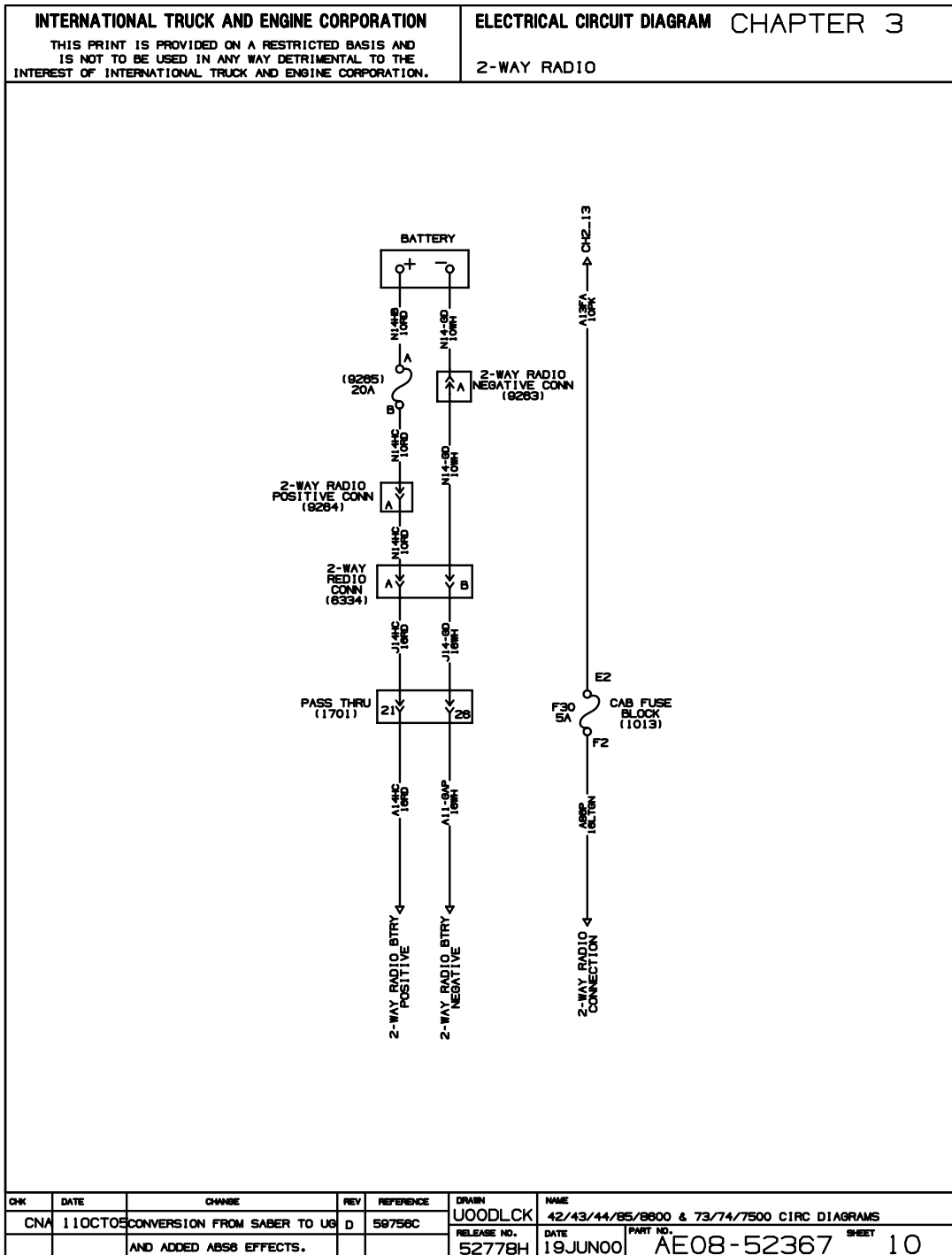


Figure 39 2-Way Radio

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

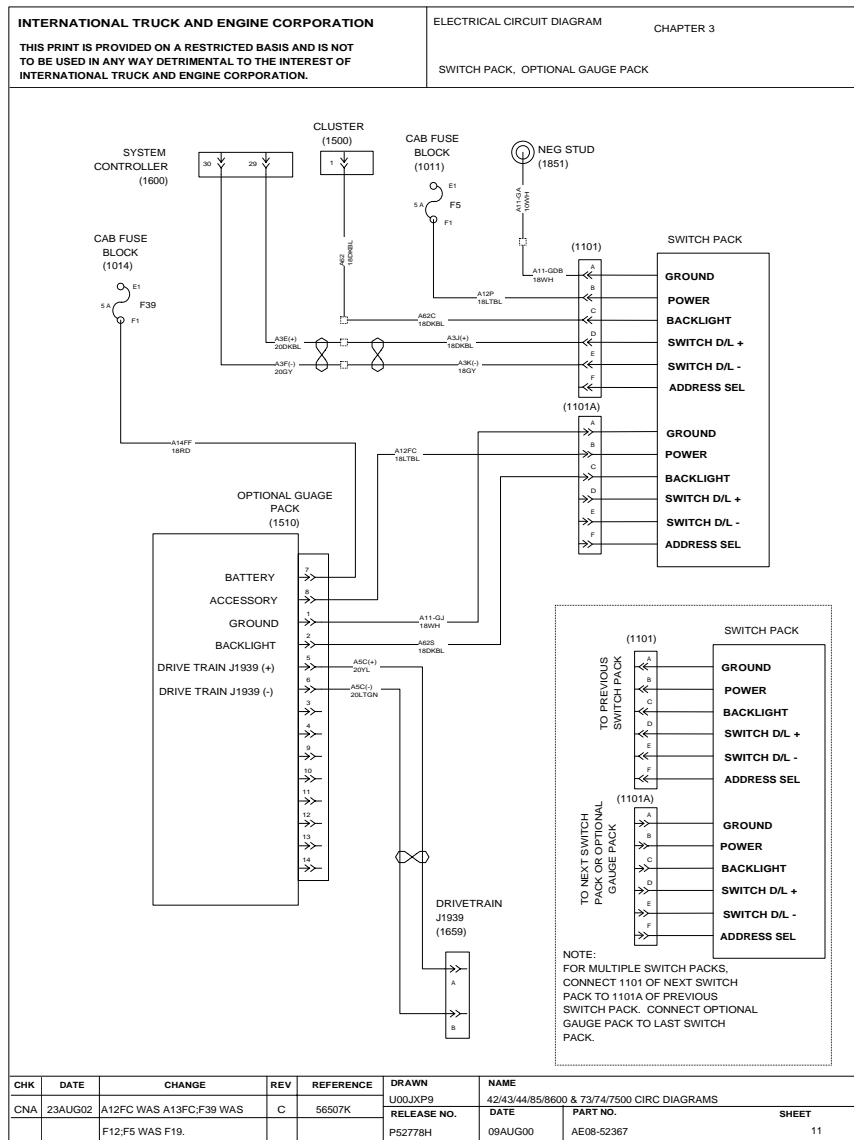


Figure 40 Switch Pack, Optional Gauge Pack

3.12. LIGHTED AIR SHIELD, P. 12

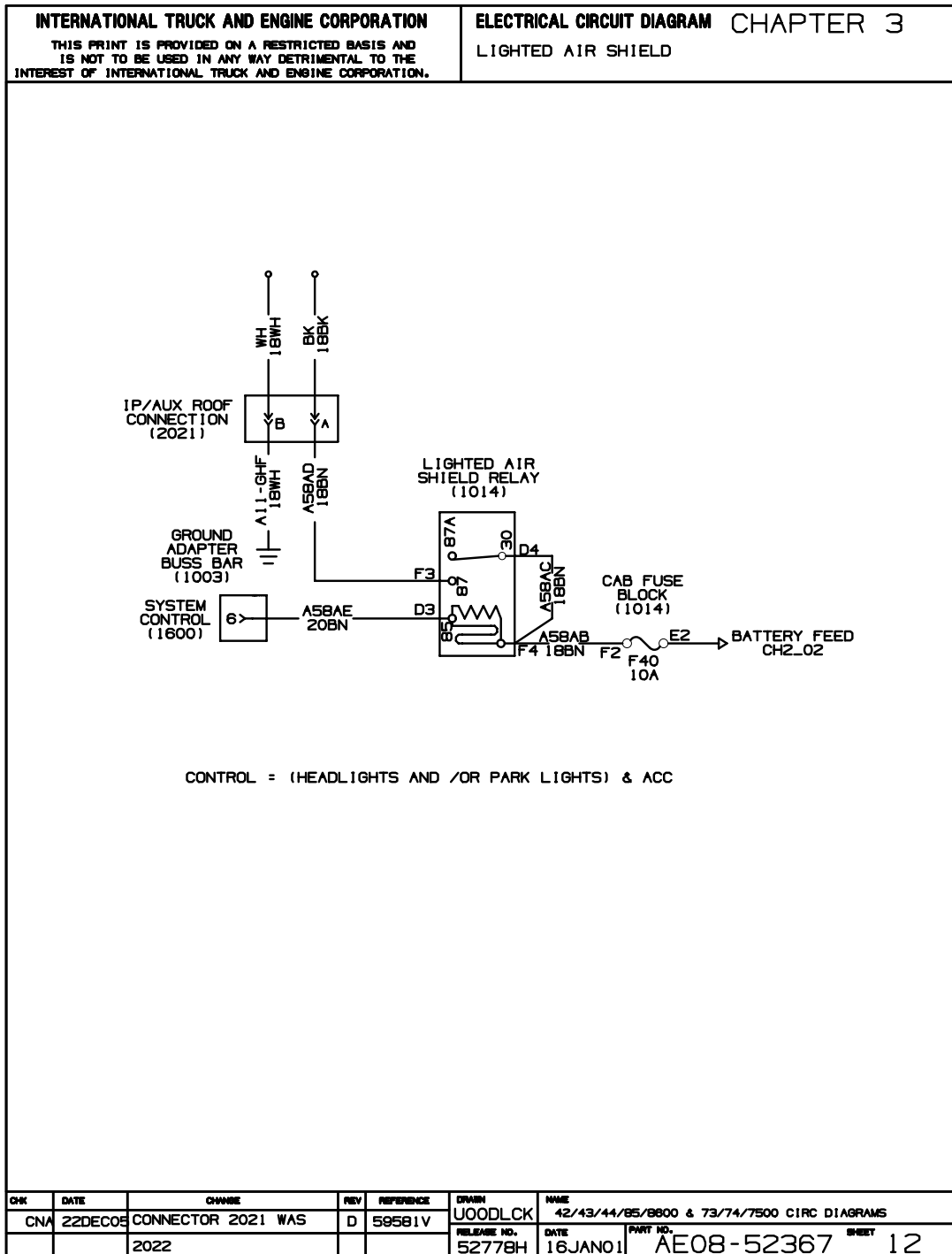


Figure 41 Lighted Air Shield

3.13. ROOF AUX. LOAD, P. 13

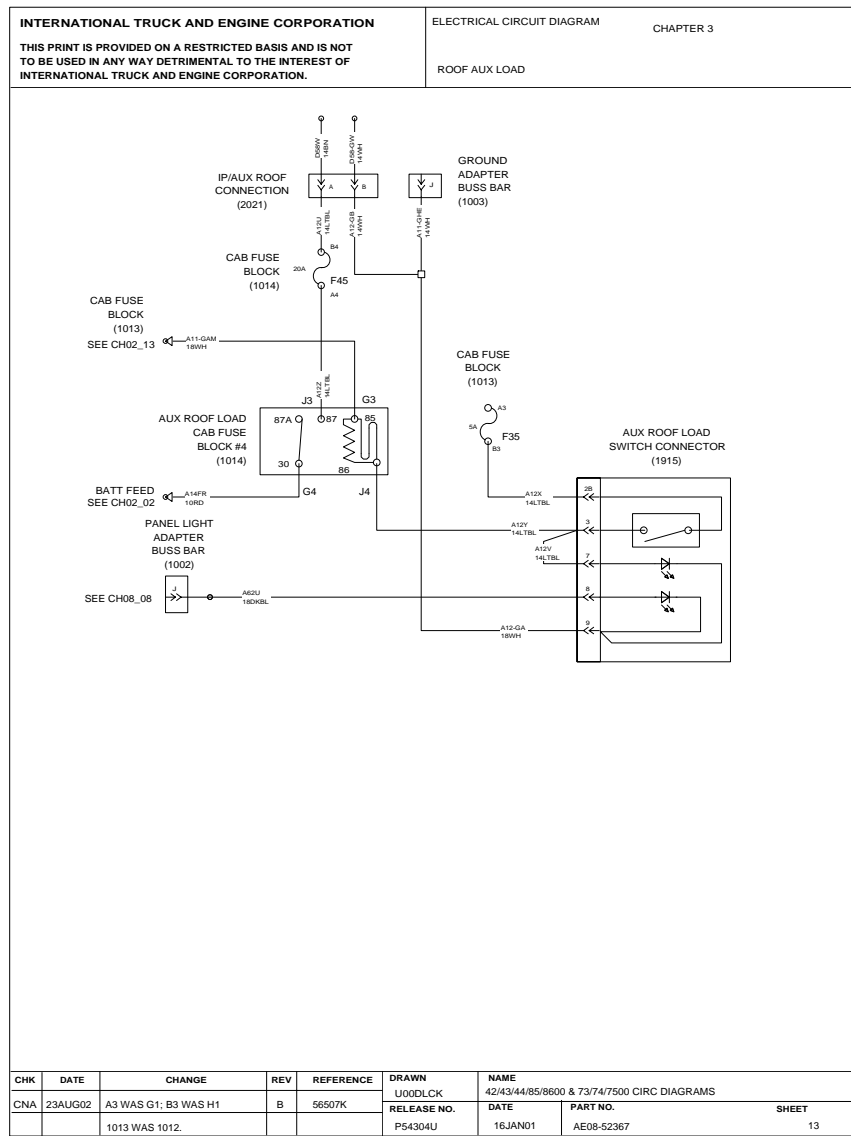


Figure 42 Roof Aux. Load

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

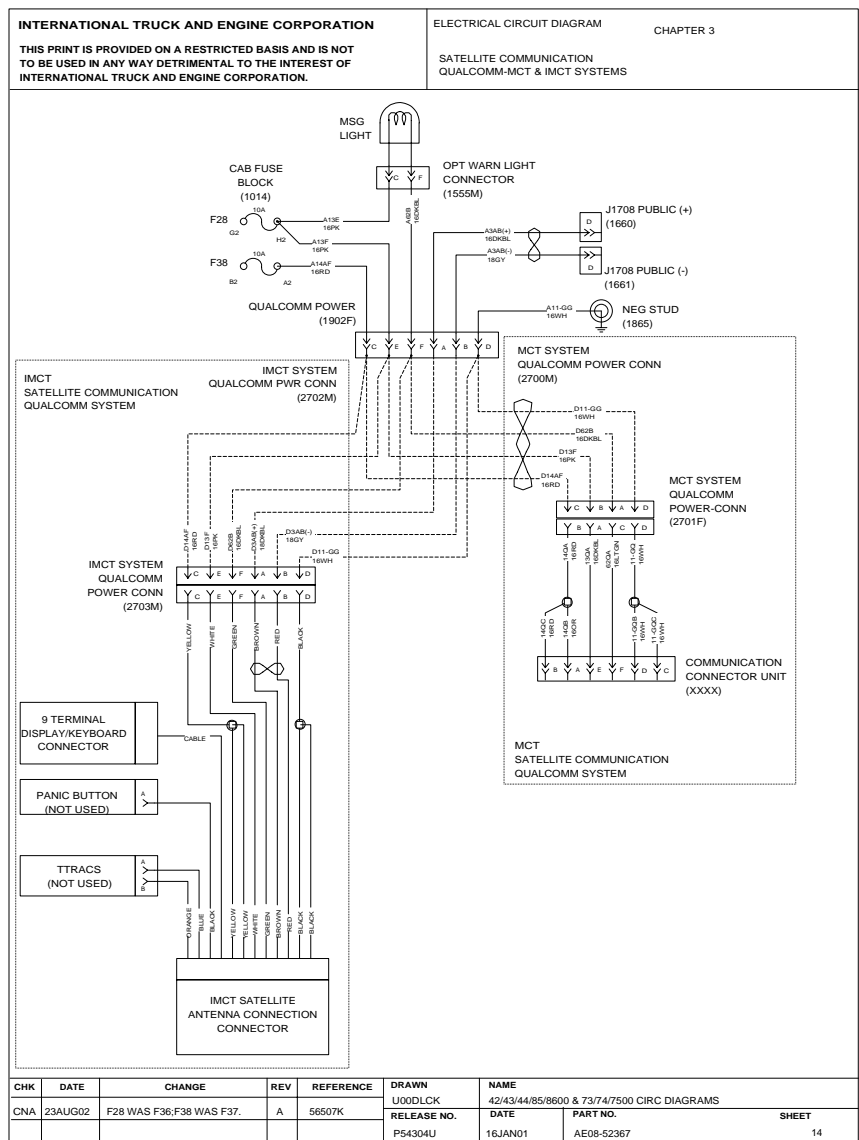


Figure 43 Satellite Communication Qualcomm-MCT and IMCT Systems

3.15. SELF CONTAINED AIR SEAT, P. 15

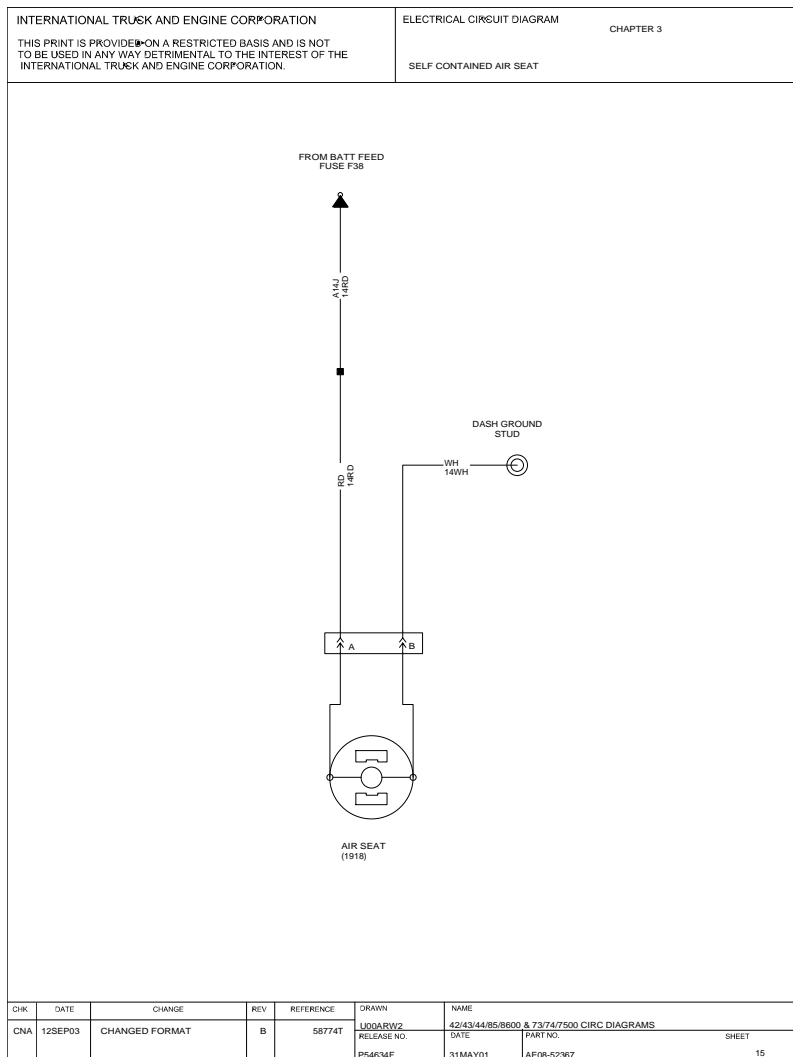


Figure 44 Self Contained Air Seat

3.16. DIGITAL CLOCK PTC, P. 16

INTERNATIONAL TRUCK AND ENGINE CORPORATION THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE INTERNATIONAL TRUCK AND ENGINE CORPORATION.					ELECTRICAL CIRCUIT DIAGRAM CHAPTER 3 DIGITAL CLOCK PTC		
<h1 style="margin: 0;">GEOMETRY WAS REMOVED</h1>							
<small>CHK</small>	<small>DATE</small>	<small>CHANGE</small>	<small>REV</small>	<small>REFERENCE</small>	<small>DRAWN</small>	<small>NAME</small>	
CNA	12SEP03	CHANGED FORMAT	B	58774T	LD00DLCK	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS	
					<small>RELEASE NO.</small>	<small>DATE</small>	<small>PART NO.</small>
					P54634F	05MAY01	AE08-52387
							<small>SHEET</small> 16

Figure 45 Digital Clock PTC

3.17. TRANSMISSION ALLISON LCT COLUMN SHIFTER, P. 17

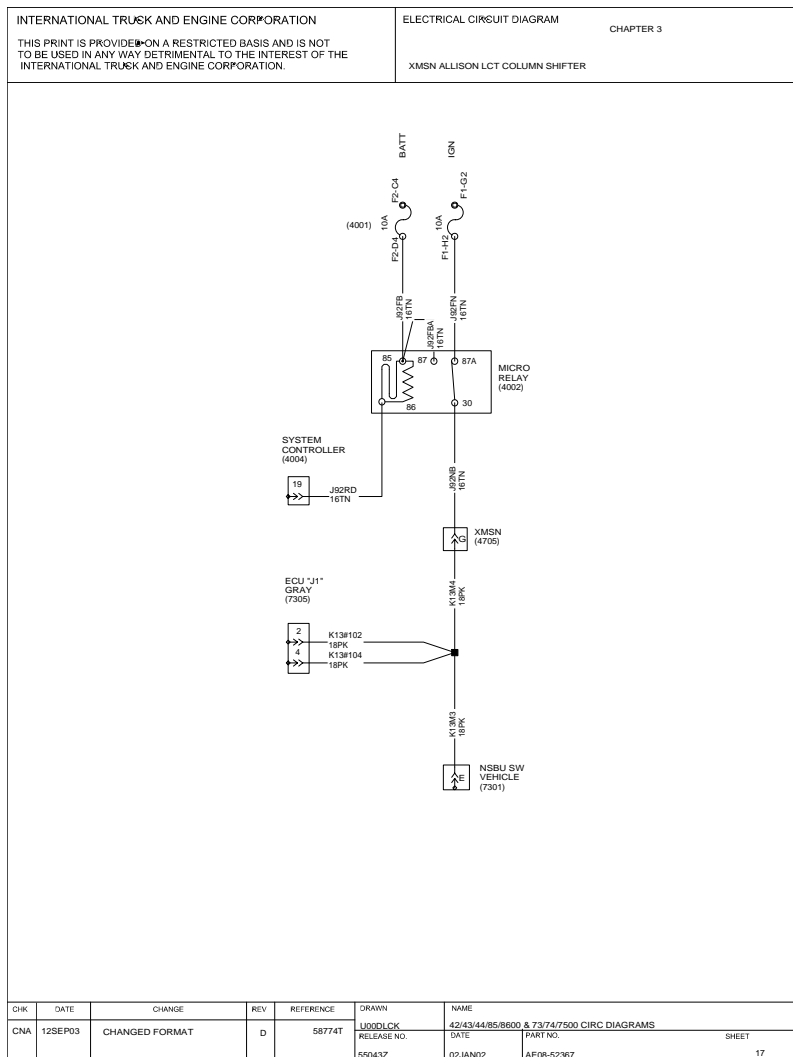


Figure 46 Transmission Allison LCT Column Shifter



### 3.18. HEATED SEATS FOR 7700 MODELS ONLY, P. 18

HEATED SEAT FOR 7700 MODEL ONLY



Figure 47 Heated Seats for 7700 Models Only

3.19. BACKUP CAMERA, P. 19

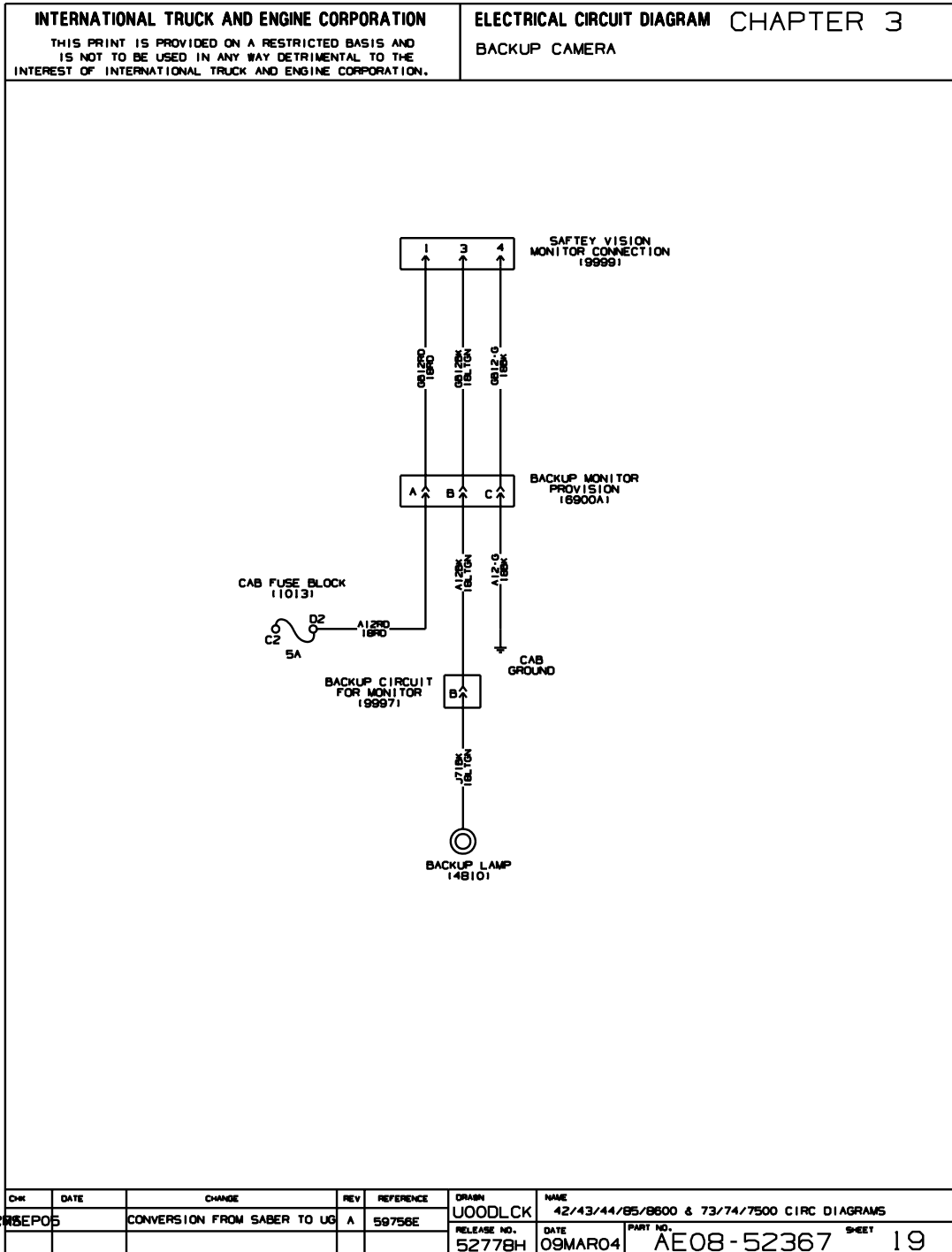


Figure 48 Backup Camera

3.20. XATA COMPUTER, P. 20

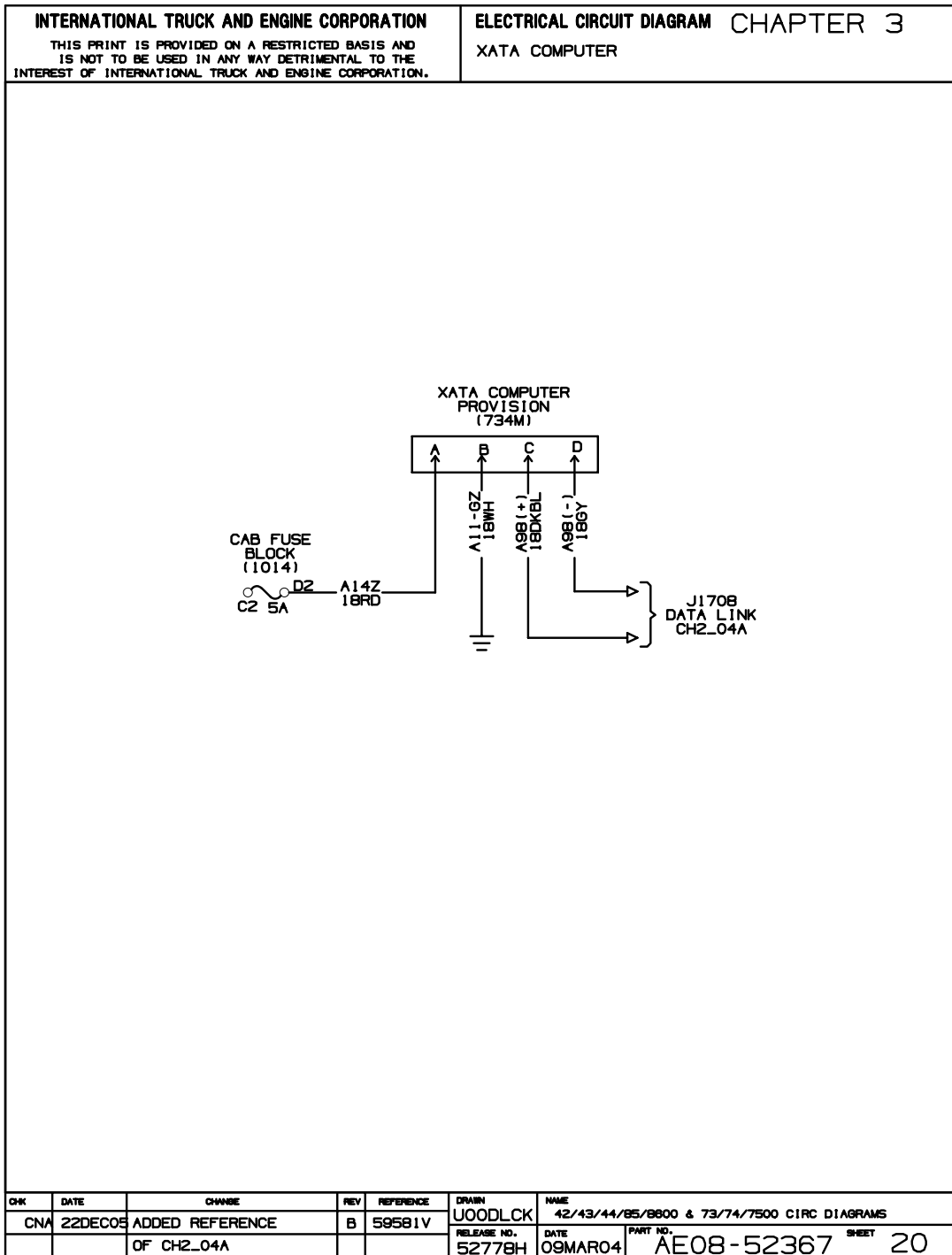


Figure 49 XATA Computer

3.21. KEYLESS IGNITION SYSTEM, P. 21

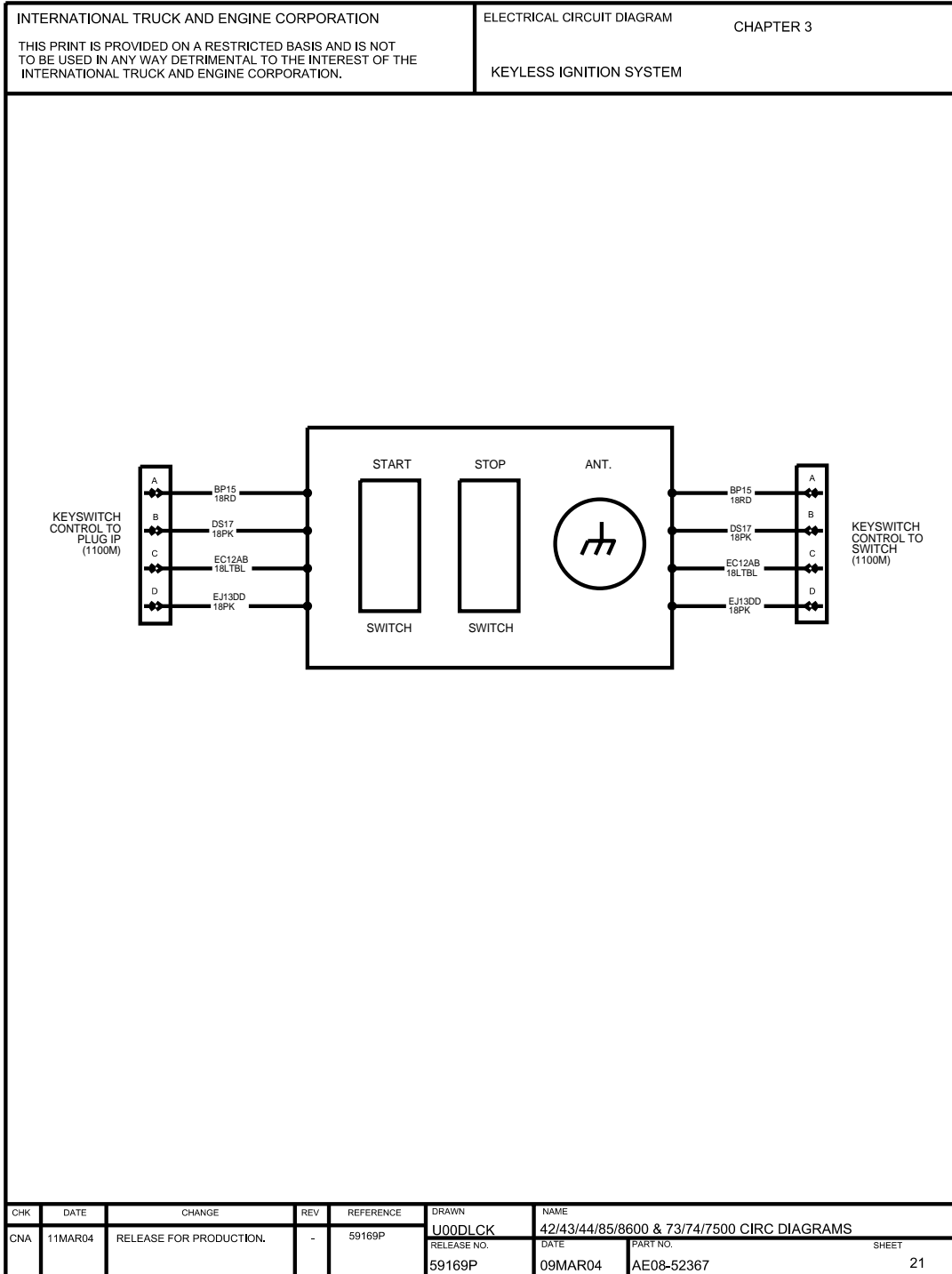


Figure 50 Keyless Ignition System

3.22. TELEMATICS SYSTEM, P. 22

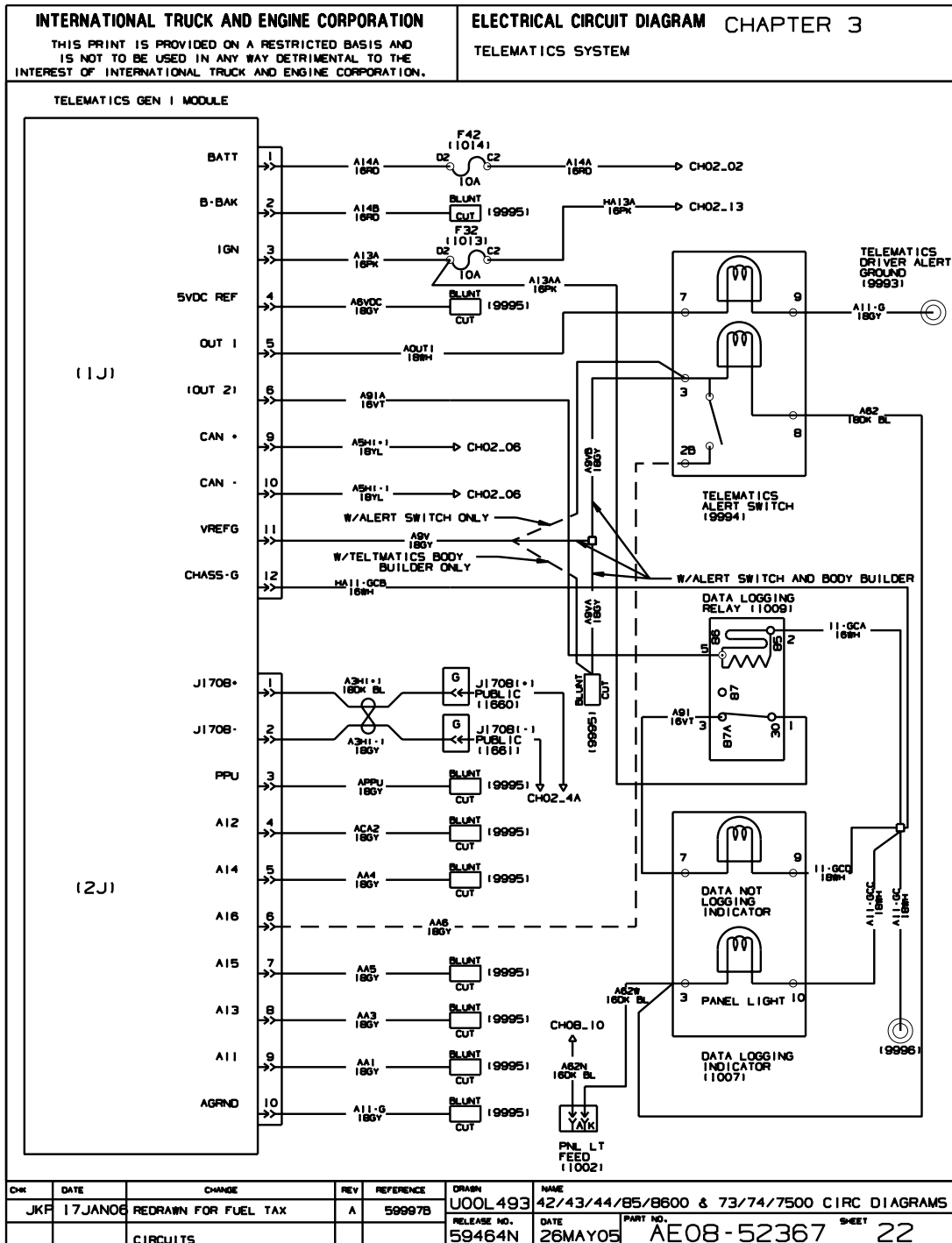


Figure 51 Telematics System

3.23. EATON VORAD COLLISION AVOIDANCE SYSTEM, P. 23

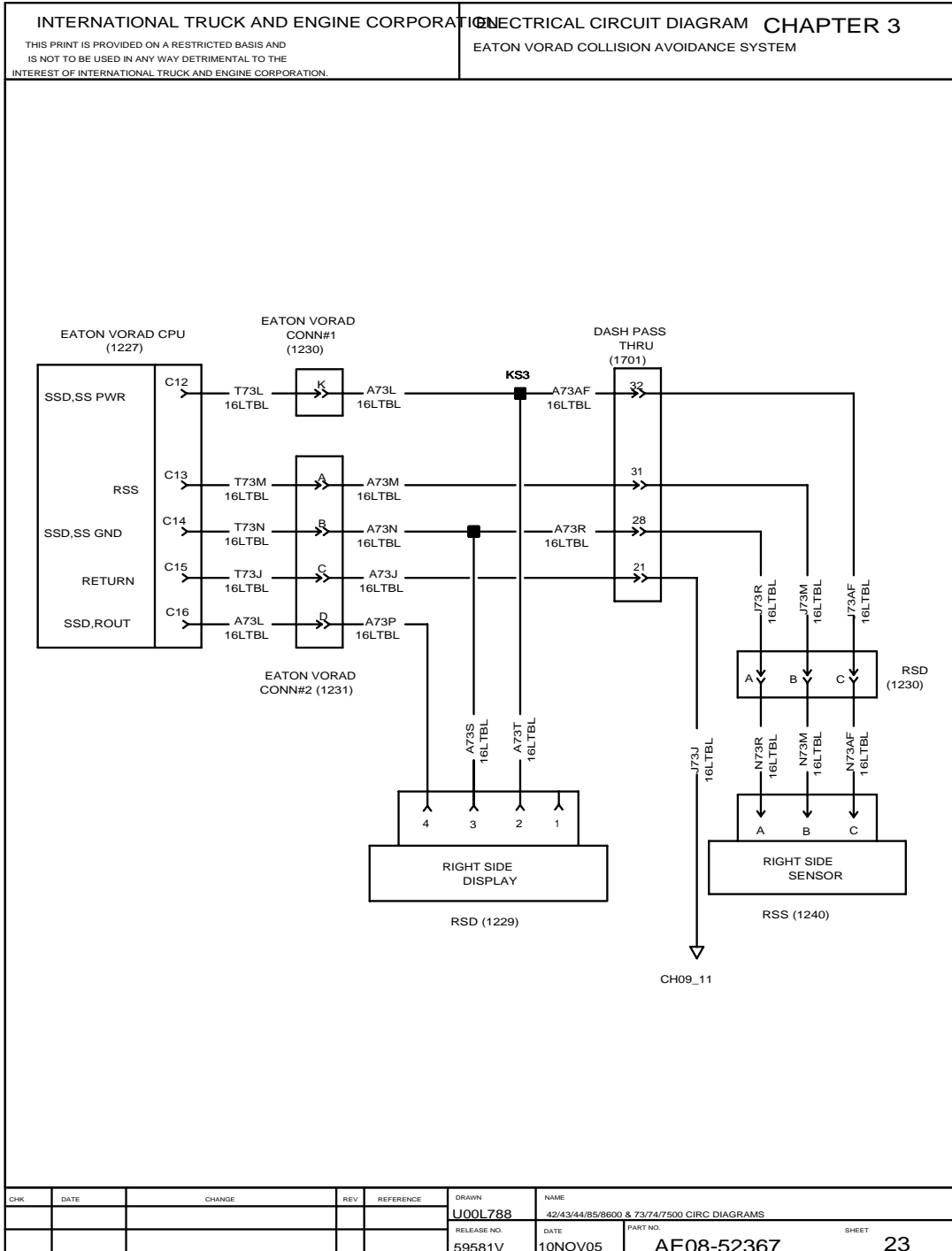


Figure 52 Eaton Vorad Collision Avoidance System

3.24. EATON VORAD COLLISION AVOIDANCE SYSTEM, P. 24

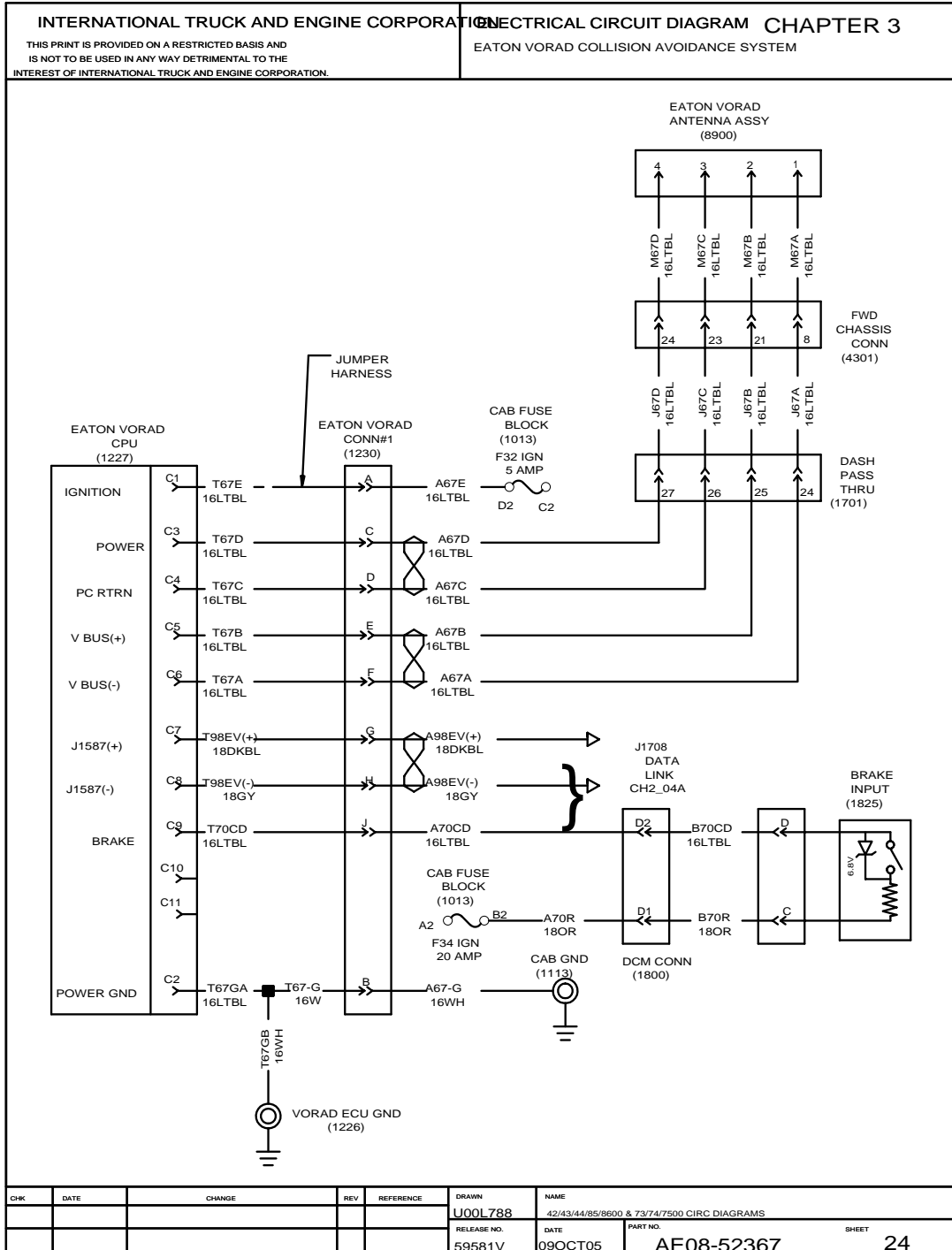


Figure 53 Eaton Vorad Collision Avoidance System

3.25. EATON VORAD COLLISION AVOIDANCE SYSTEM, P. 25

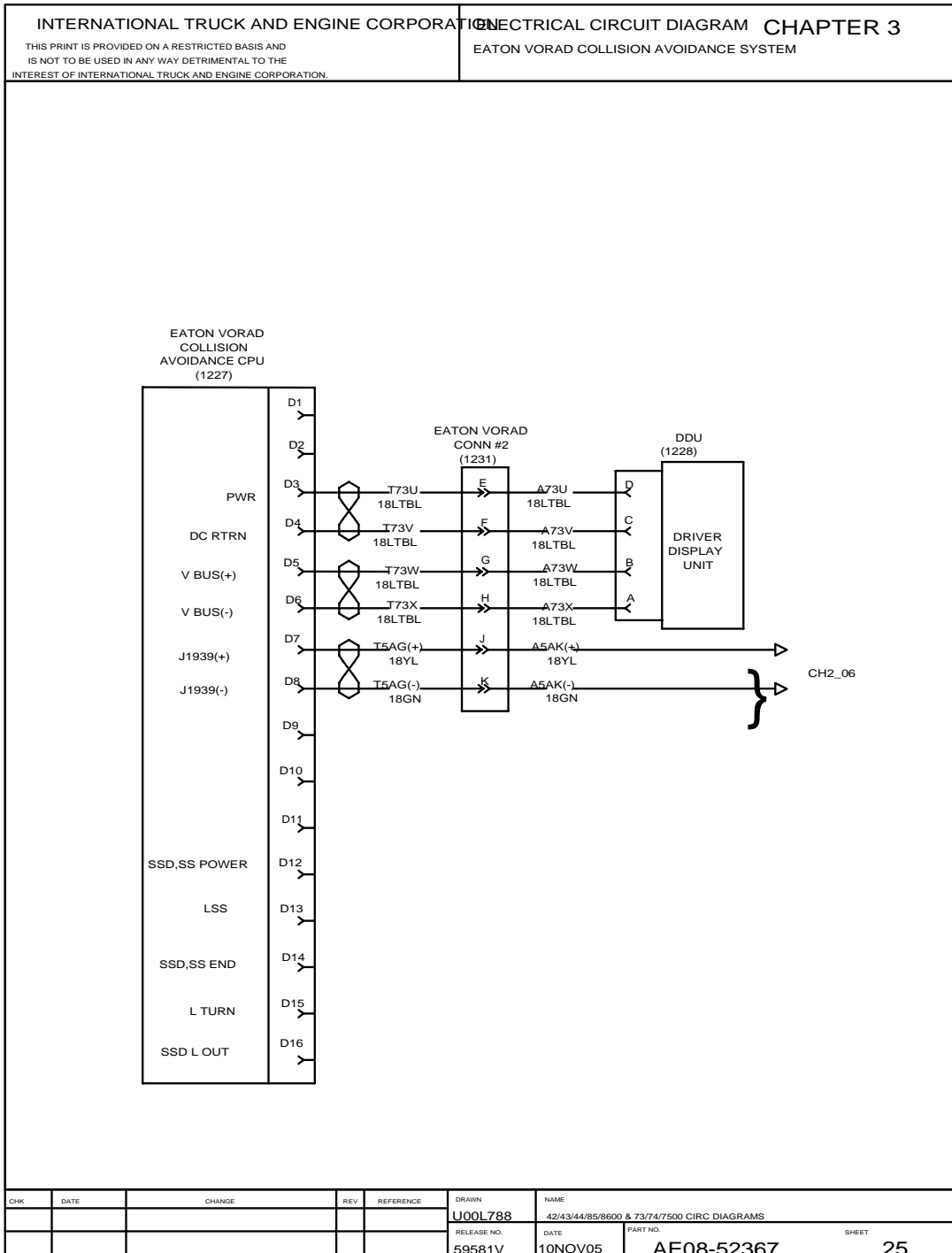


Figure 54 Eaton Vorad Collision Avoidance System



3.26. XATA DATA SYSTEM, P. 26

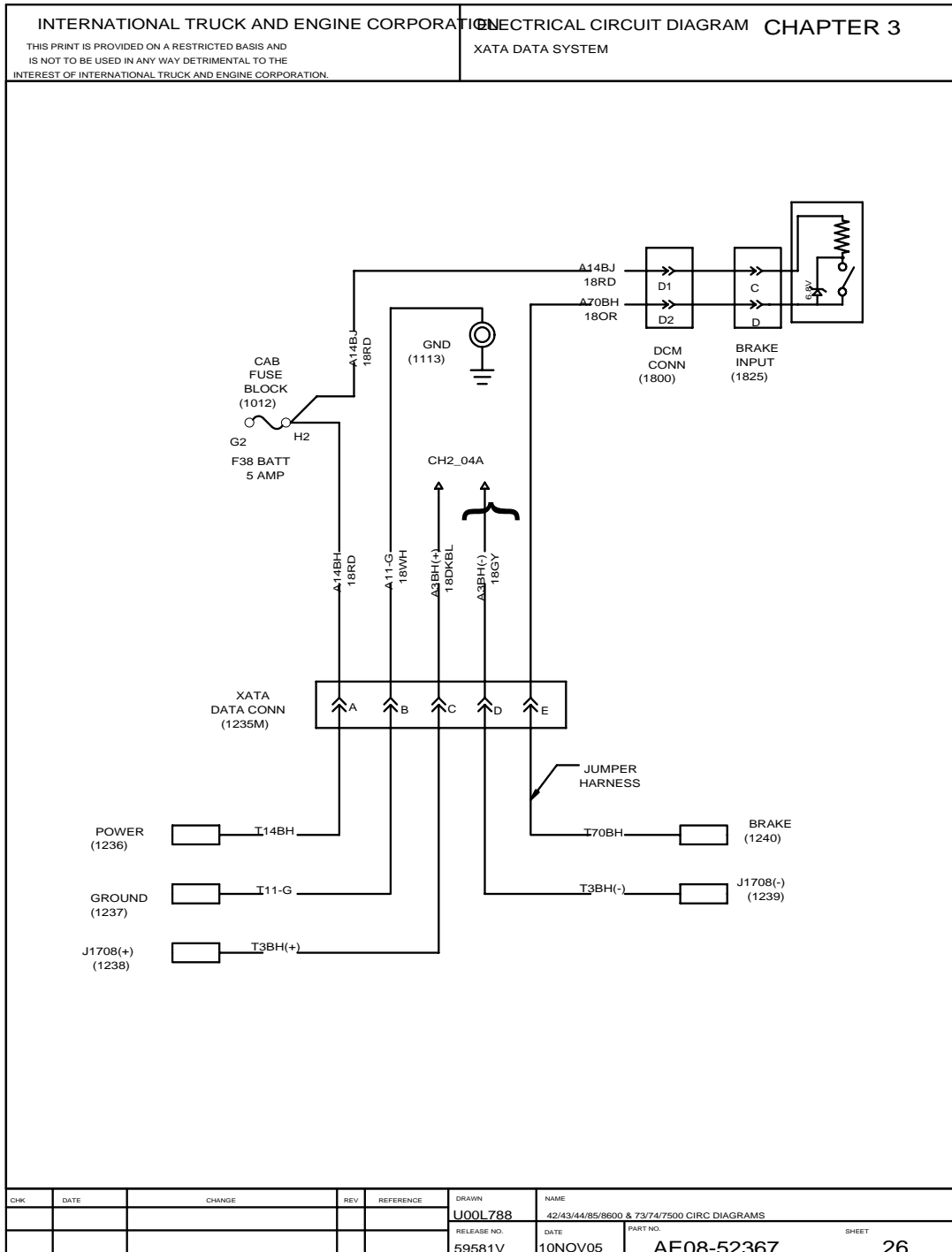


Figure 55 XATA Data System

3.27. CADEC GPS SYSTEM, P. 27

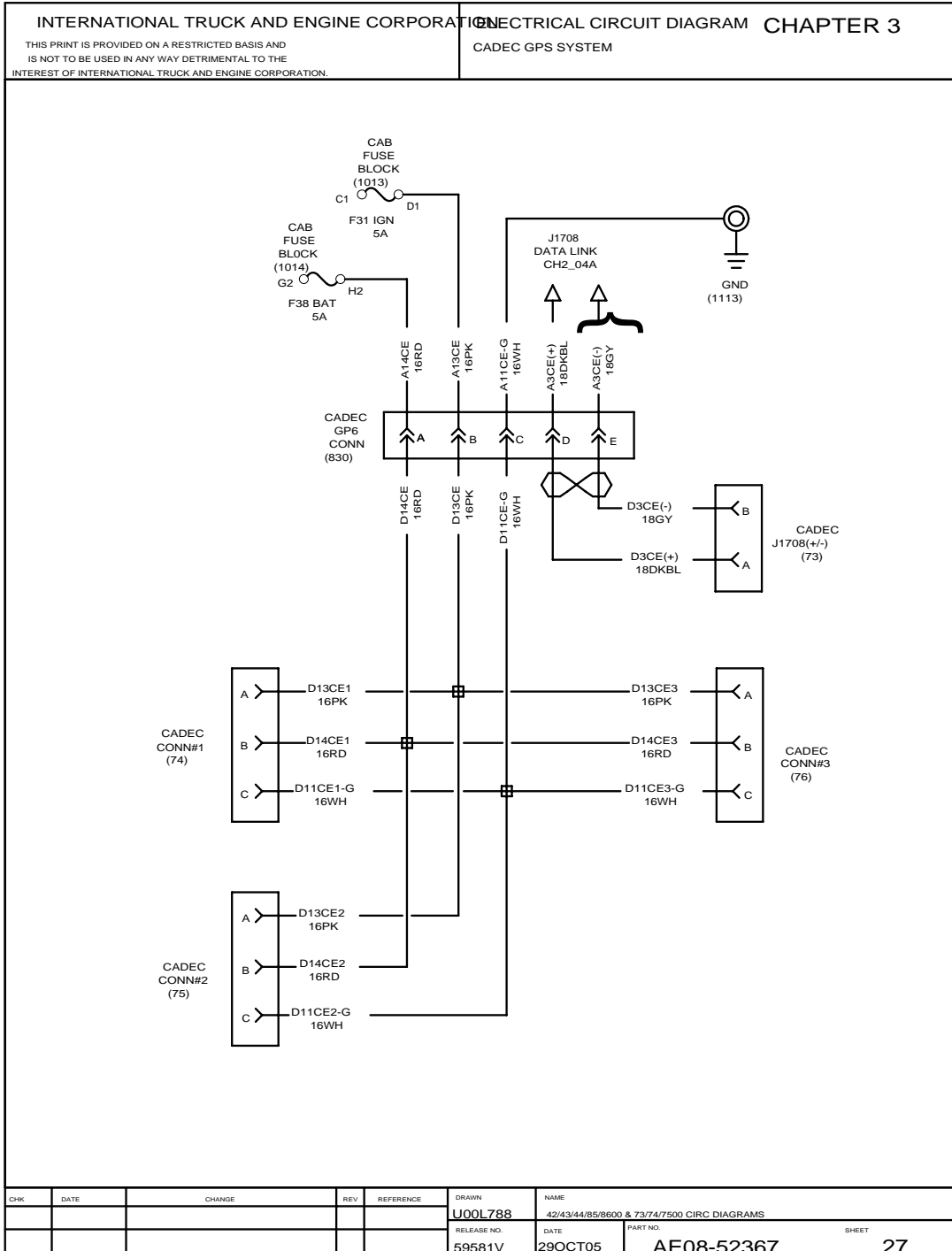


Figure 56 Cadec GPS System

3.28. TRIP MASTER, P. 28

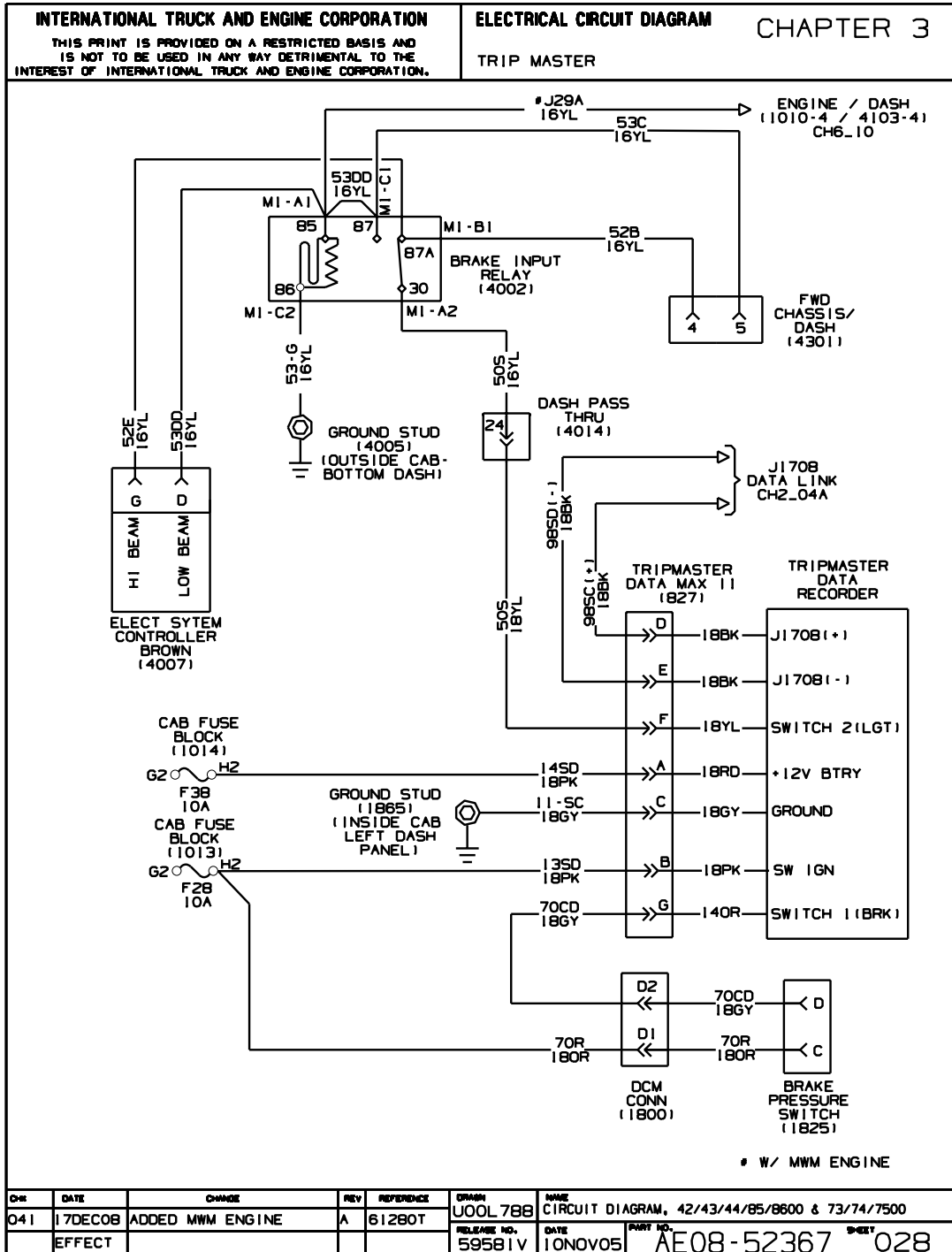


Figure 57 Trip Master

3.29. ENTERTAINMENT SYSTEM — RXT, P. 29

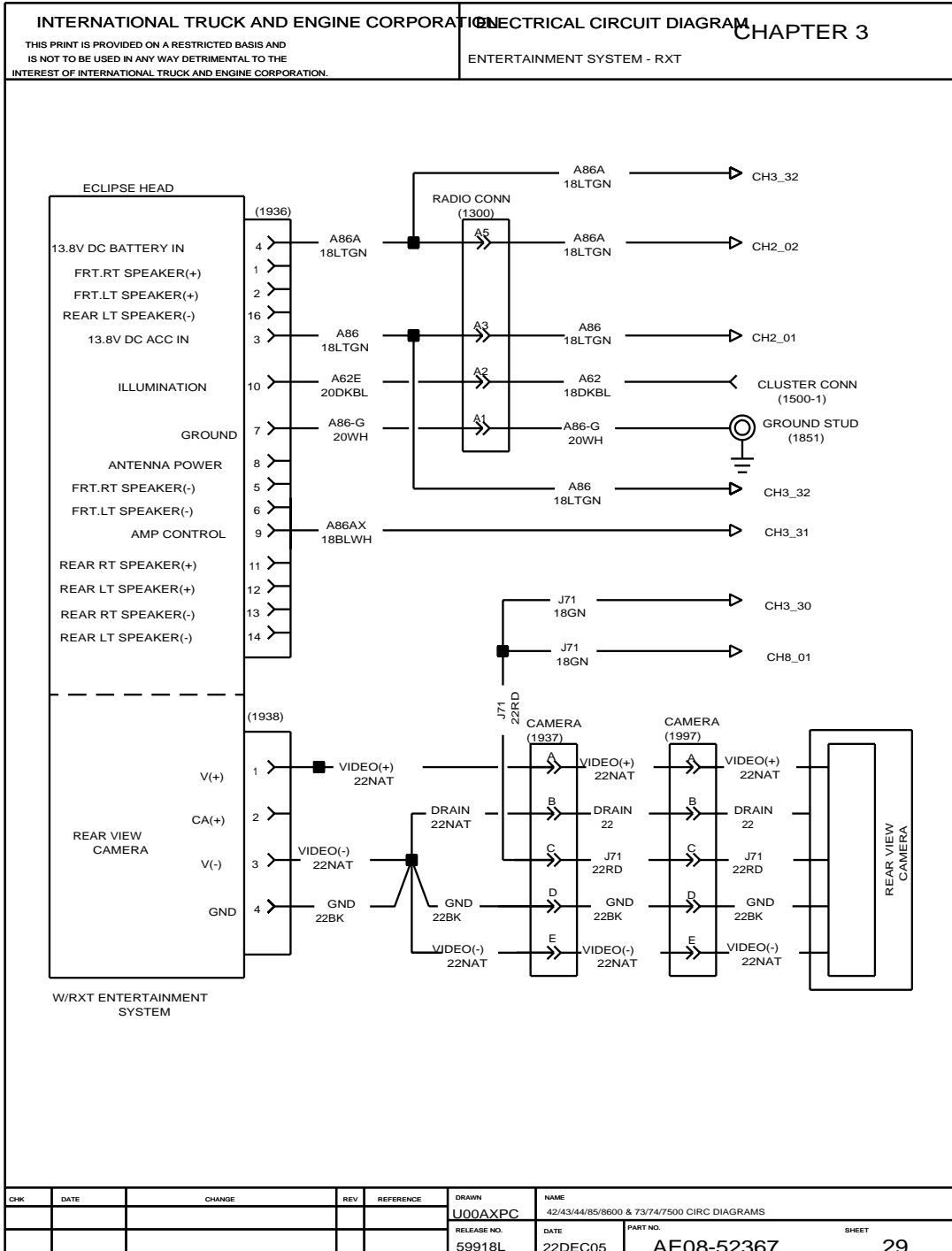


Figure 58 Entertainment System — RXT

3.30. ENTERTAINMENT SYSTEM — RXT, P. 30

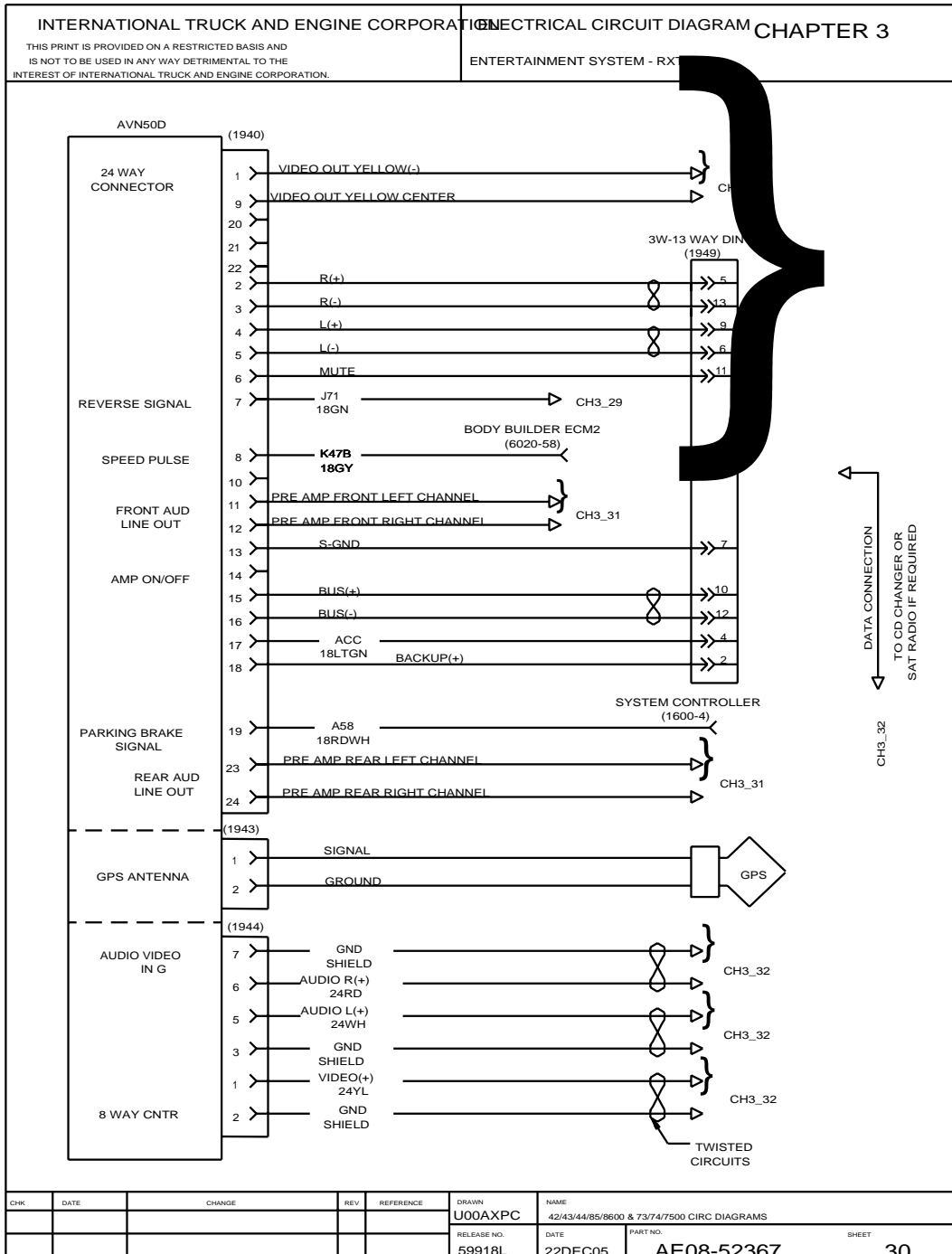


Figure 59 Entertainment System — RXT

3.31. ENTERTAINMENT SYSTEM — RXT, P. 31

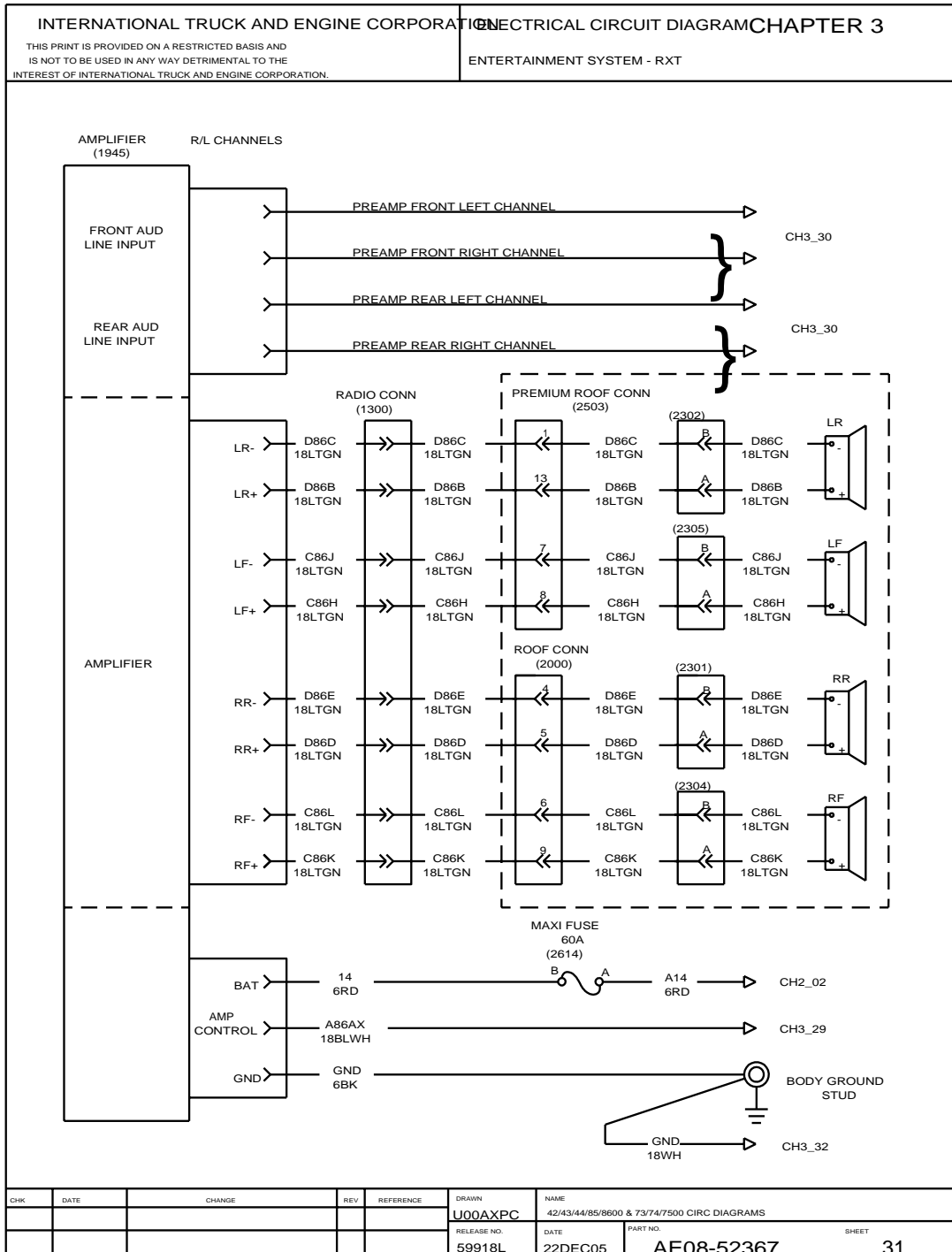


Figure 60 Entertainment System — RXT

3.32. ENTERTAINMENT SYSTEM — RXT, P. 32

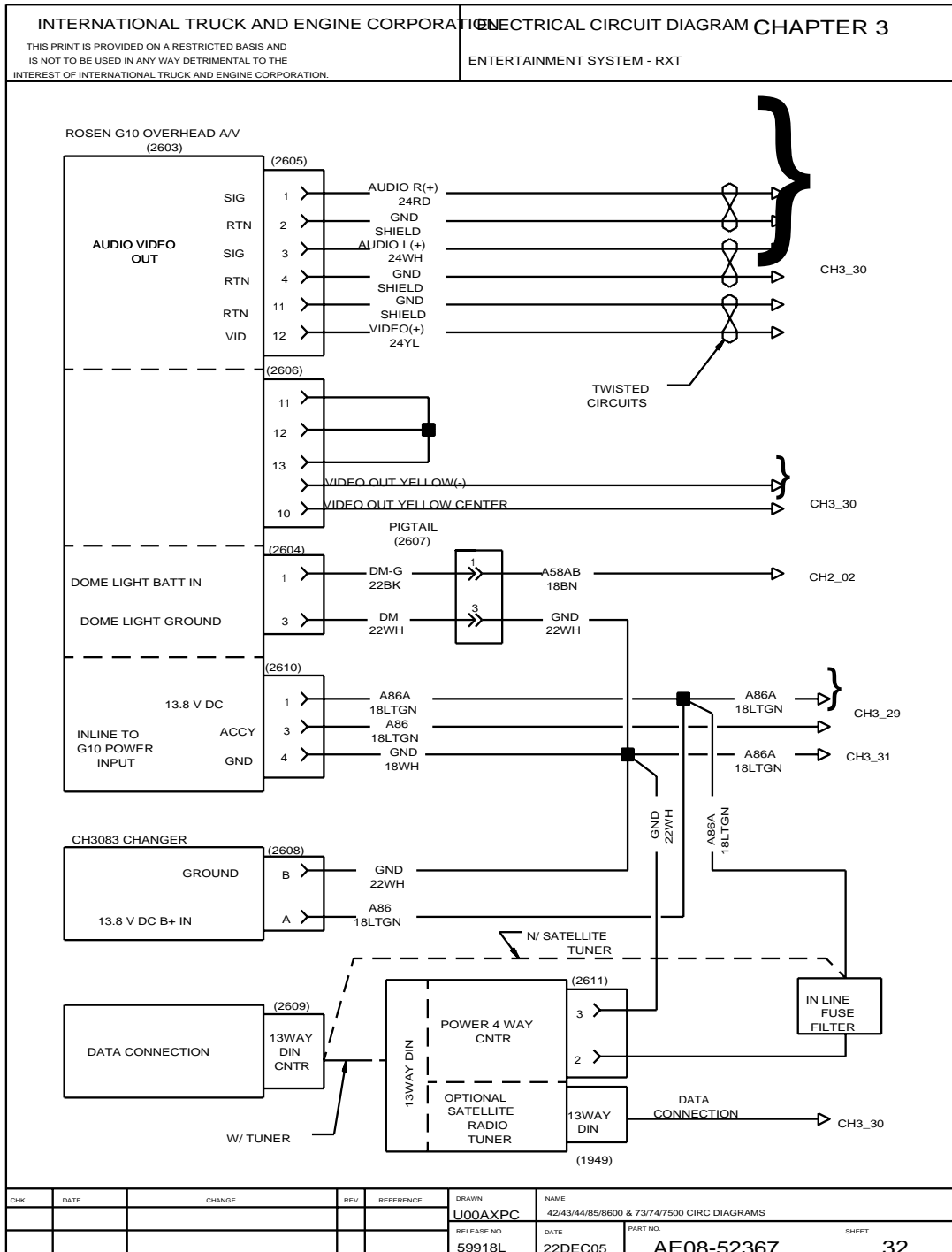


Figure 61 Entertainment System — RXT

3.33. RXT — APO\_1 AND APO\_2 AUXILIARY POWER SOCKET, P. 33

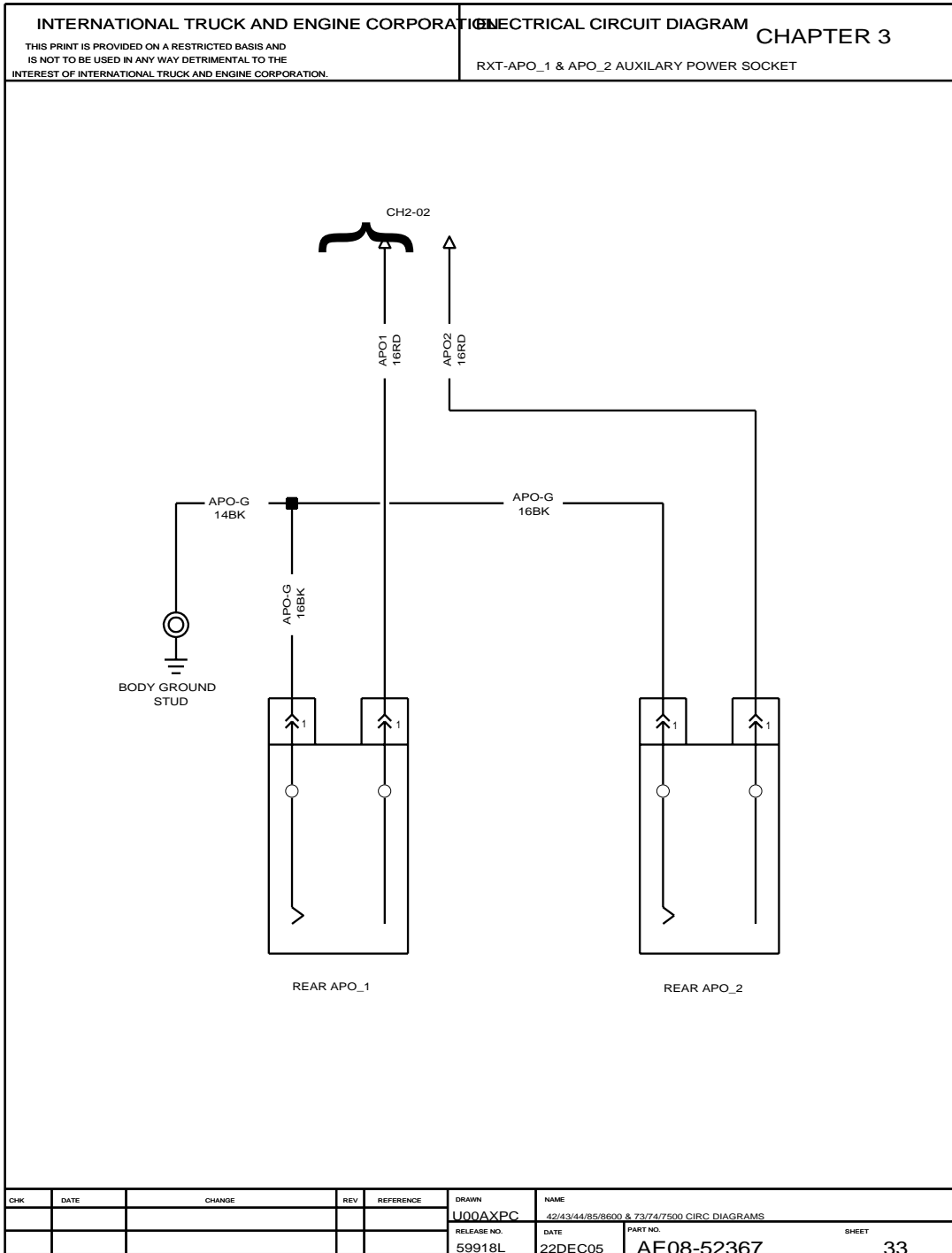


Figure 62 RXT — APO\_1 and APO\_2 Auxiliary Power Socket



3.34. TACHOGRAPH, P. 34

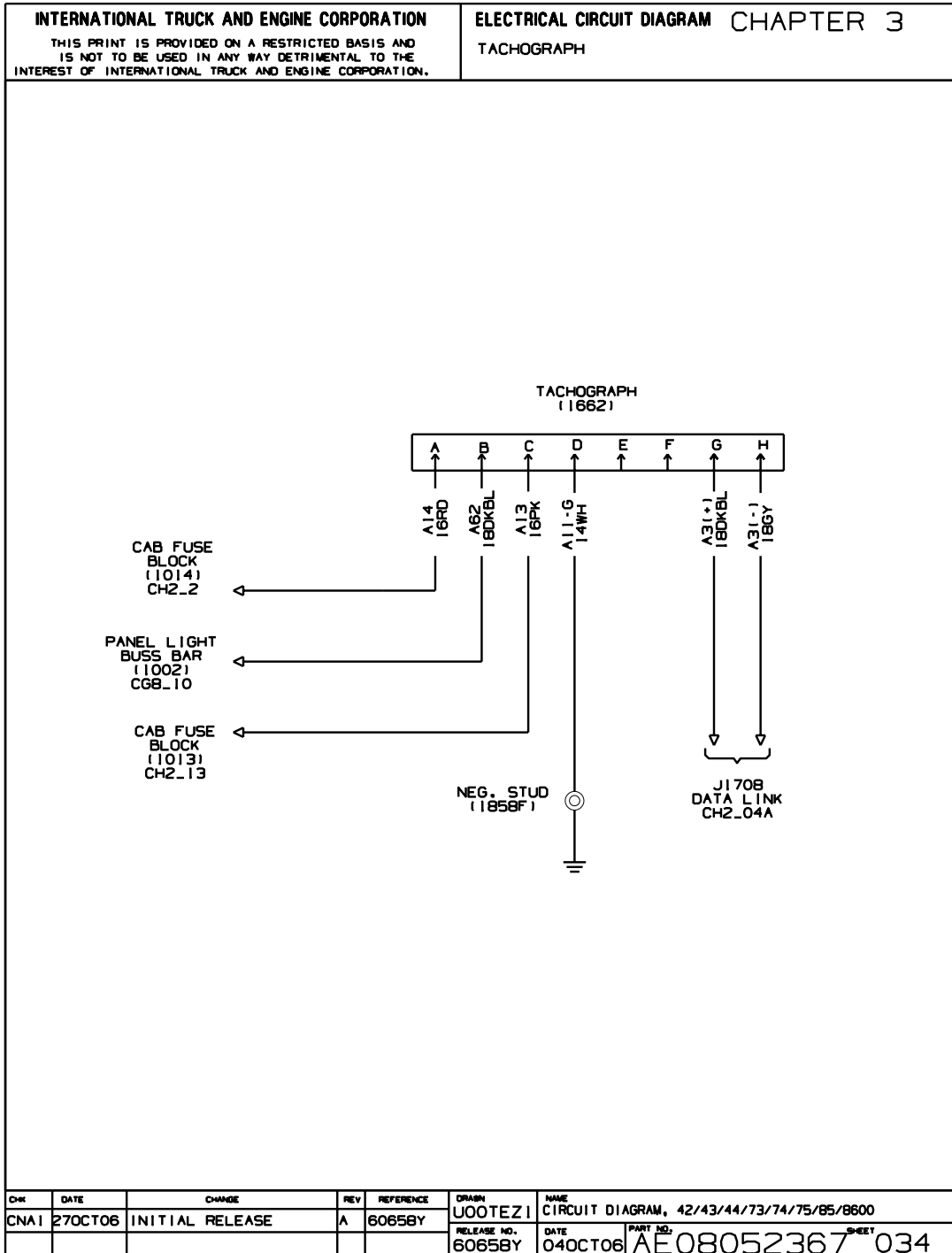


Figure 63 Tachograph

3.35. COMMUNICATIONS SYSTEM, AWARE, P. 35

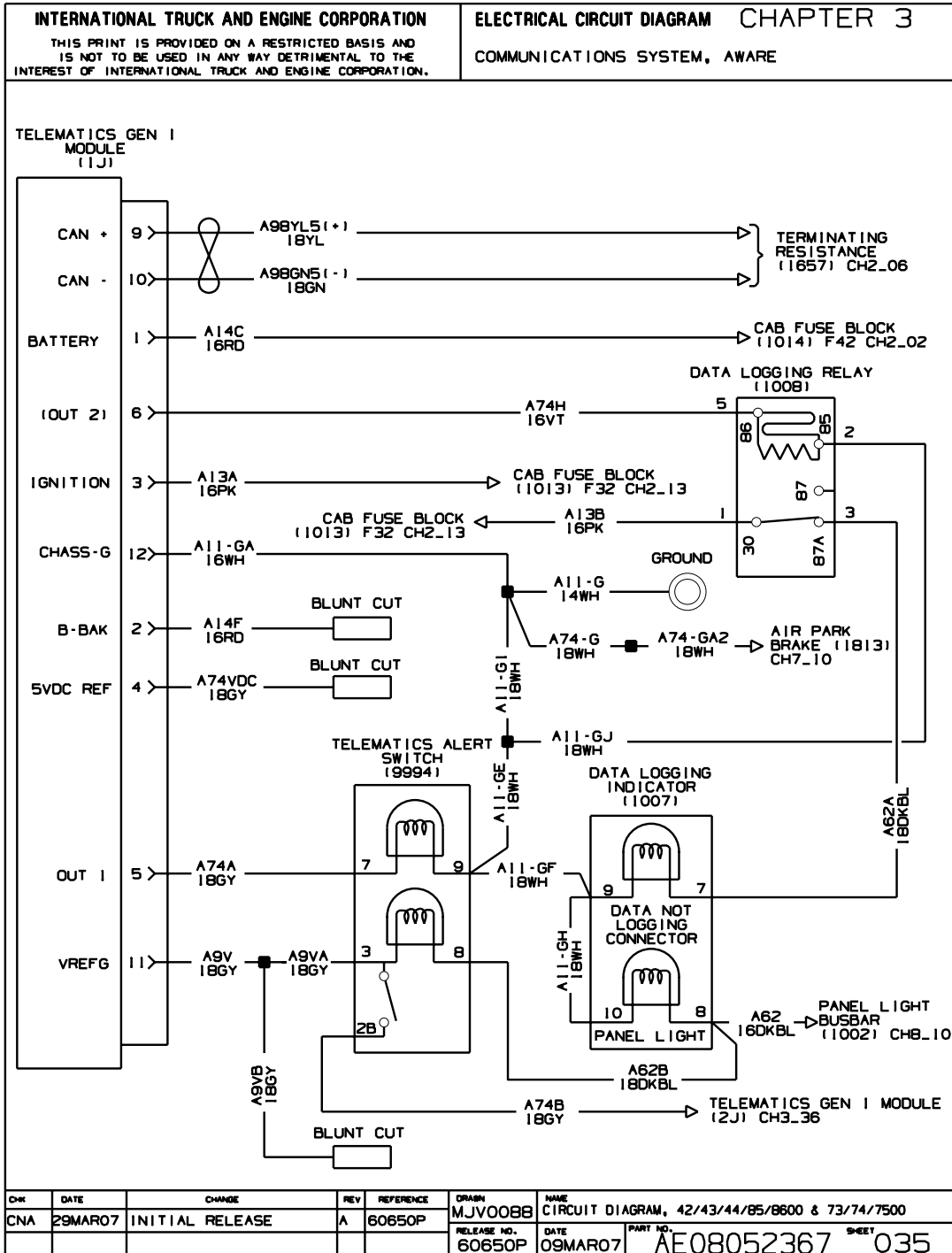


Figure 64 Communications System, AWARE

3.36. COMMUNICATIONS SYSTEM, AWARE, P. 36

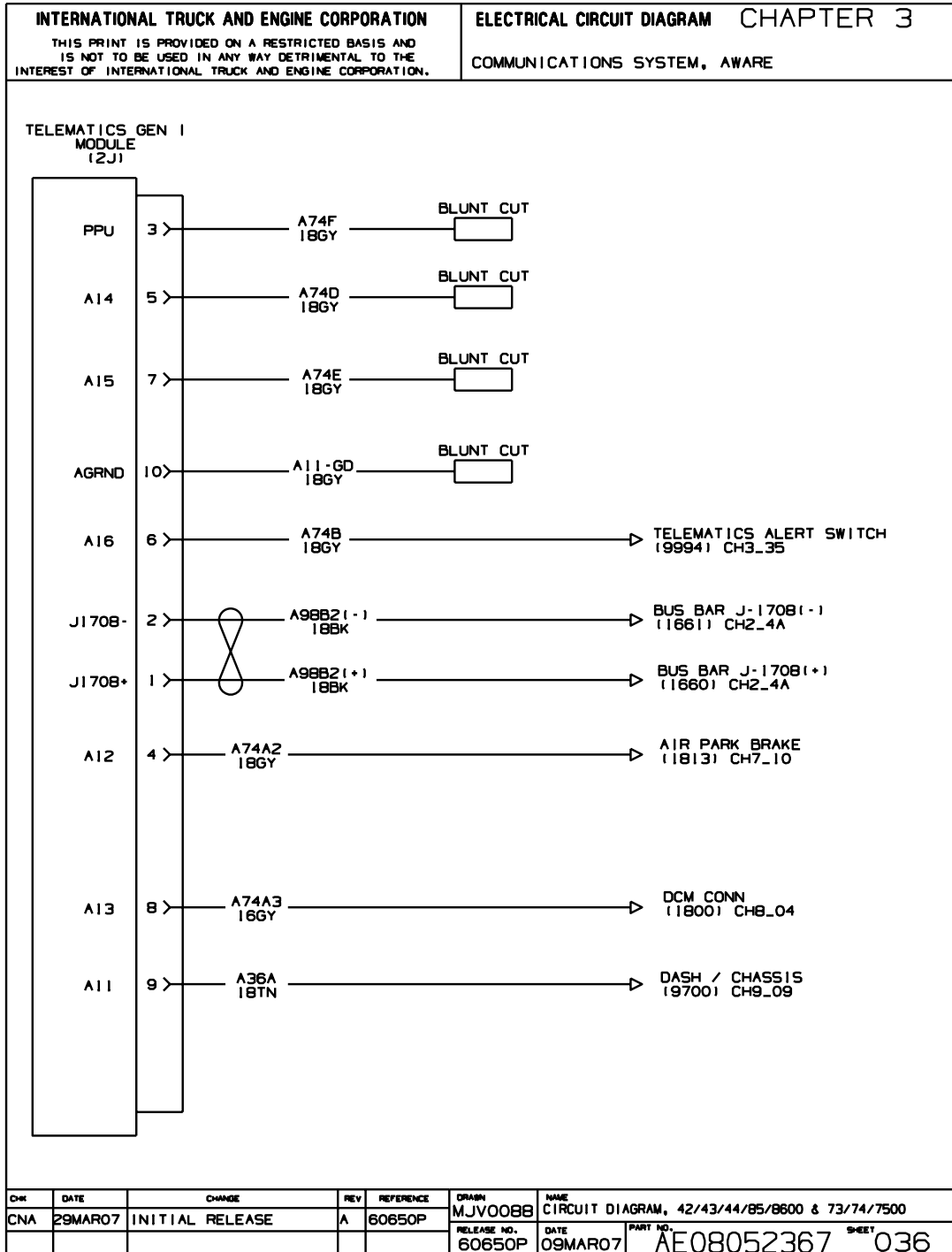


Figure 65 Communications System, AWARE

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

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

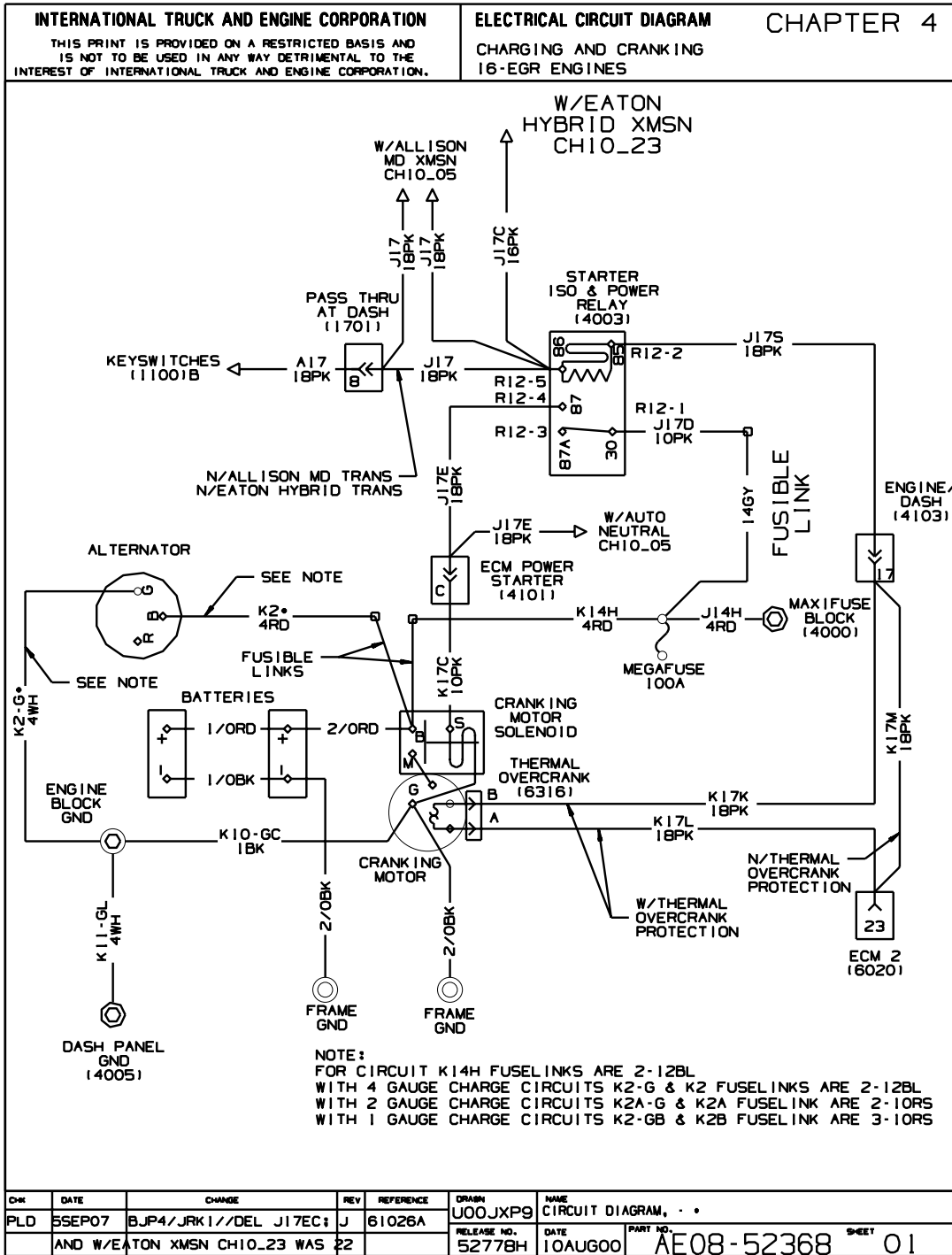


Figure 66 I6 EGR Engines

4.2. V8 AVNT ENGINES, P. 2

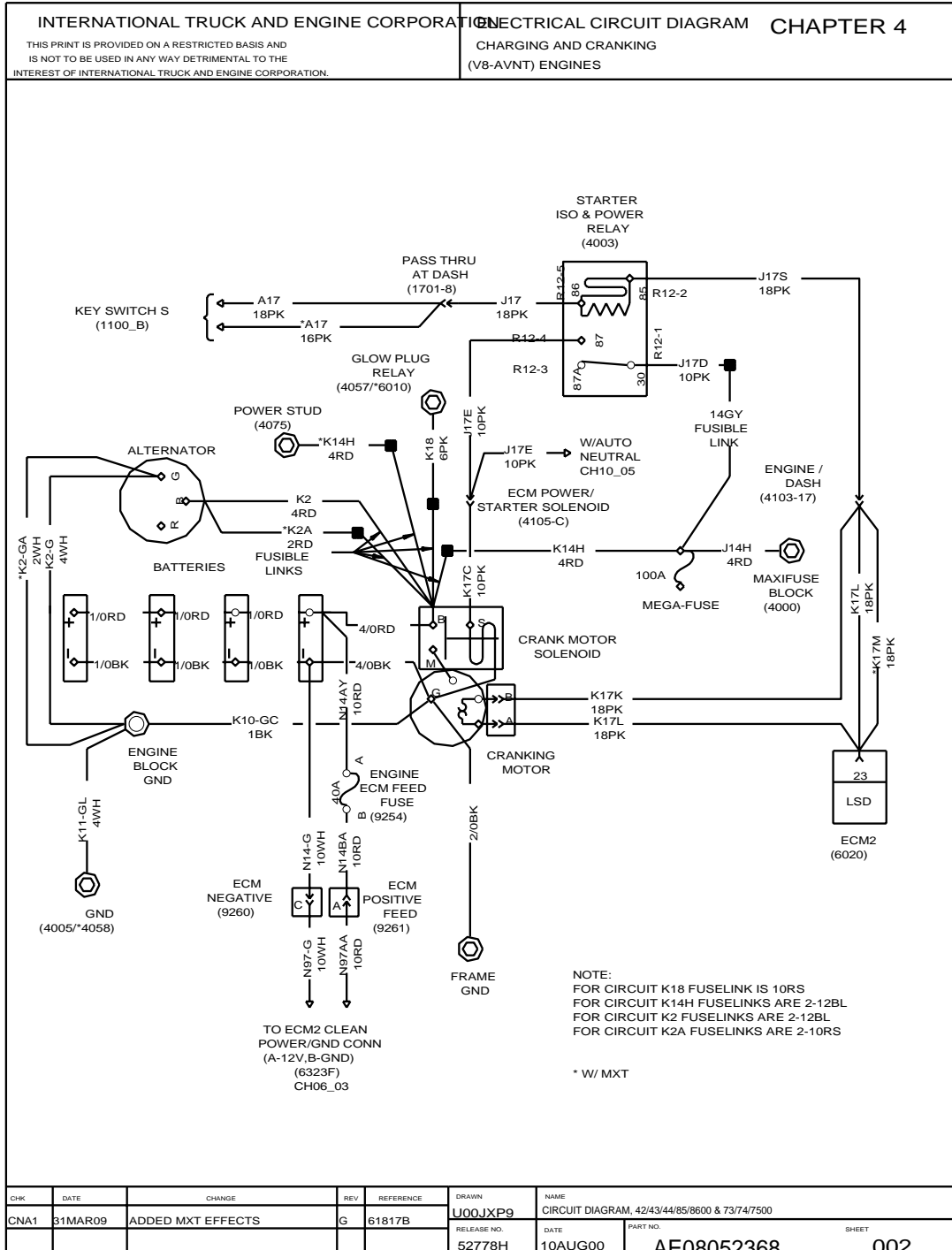


Figure 67 V8 AVNT Engines

4.3. CATERPILLAR, CUMMINS ISM ENGINES, P. 3

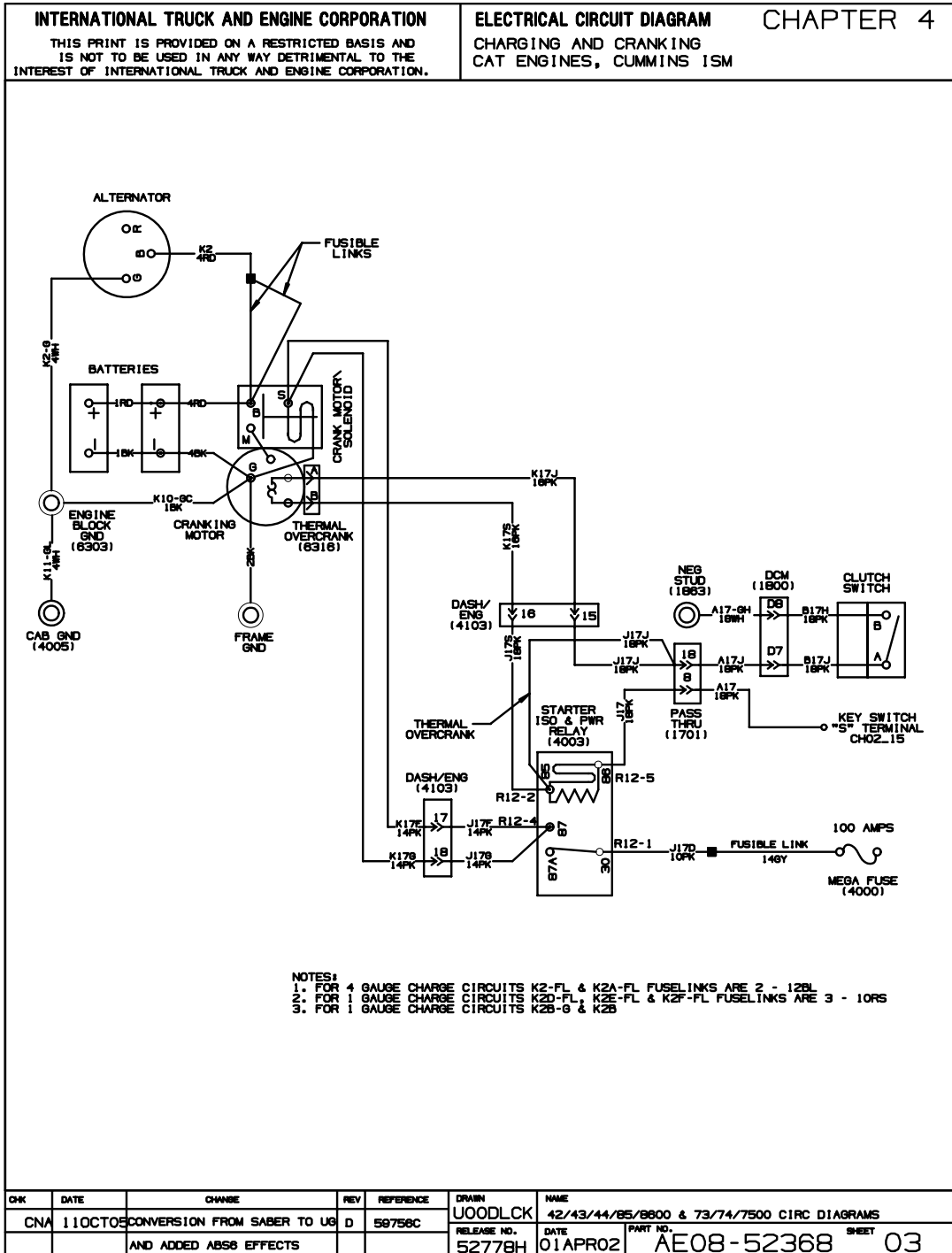


Figure 68 Caterpillar, Cummins ISM Engines

4.4. I6 HEUI ENGINES, P. 4

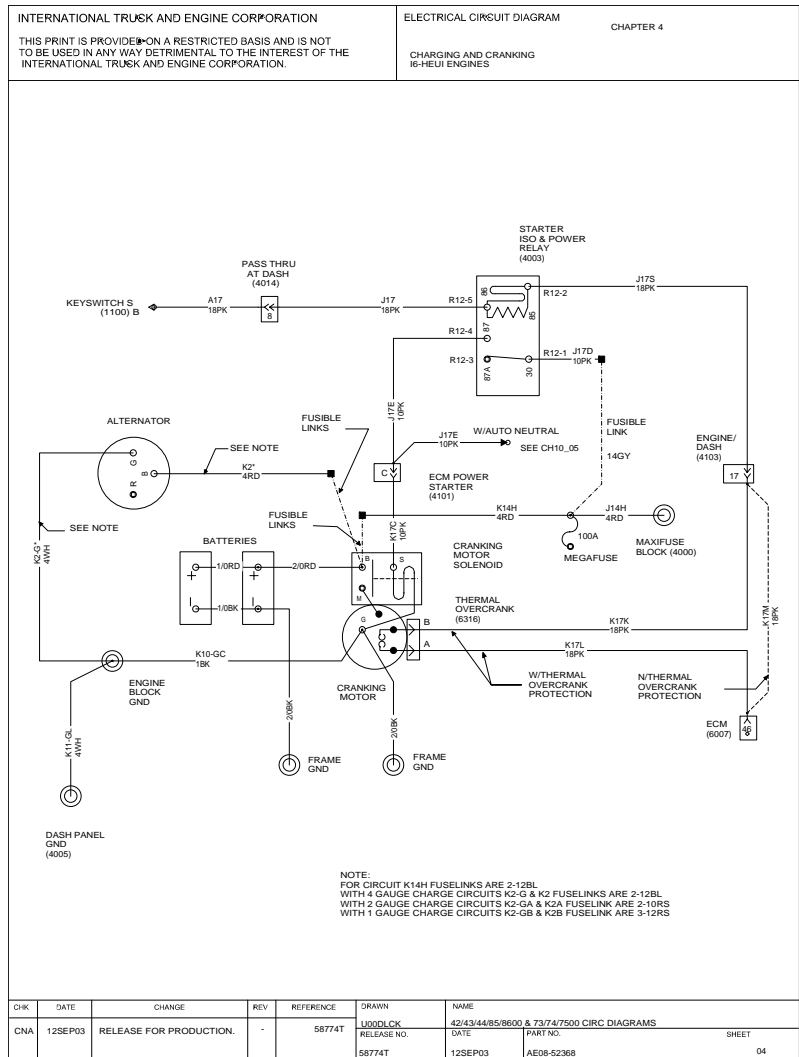


Figure 69 I6 HEUI Engines

4.5. CATERPILLAR ENGINES, CUMMINS ISM AND WITH EATON ULTRASHIFT/DM2, P. 5

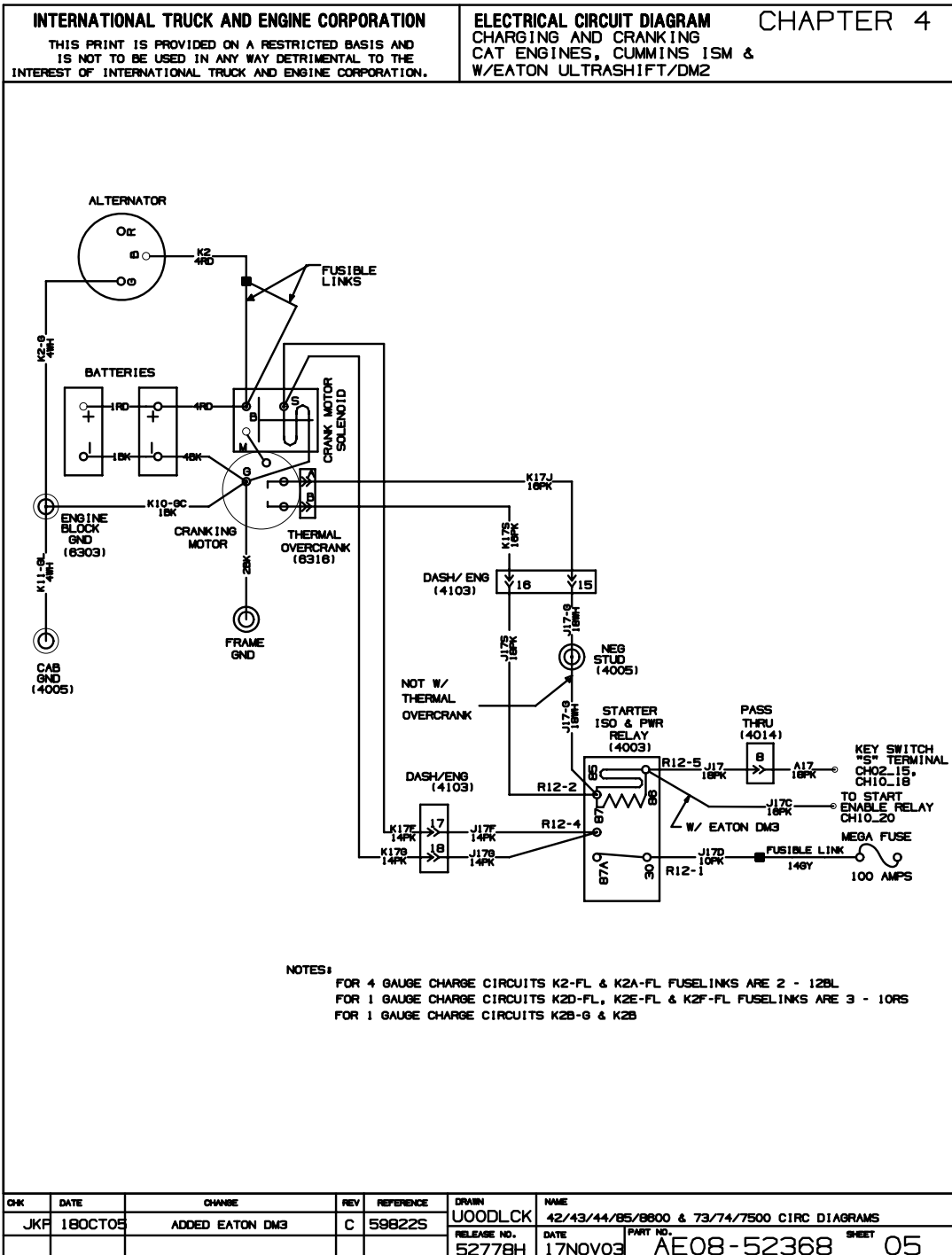


Figure 70 Caterpillar Engines, Cummins ISM and with Eaton Ultrashift/DM2



4.6. I6 EGR ENGINES WITH AIR START, P. 6

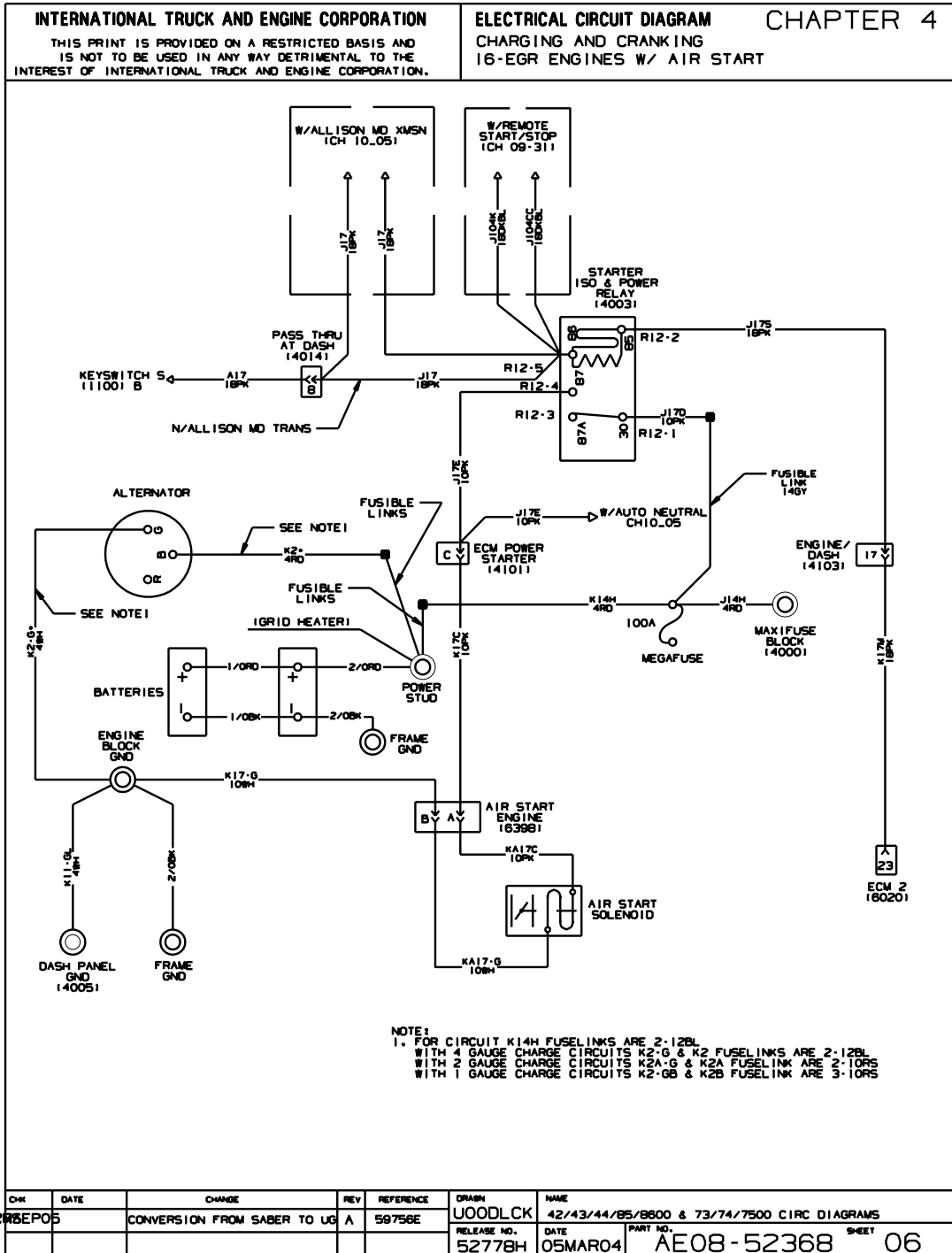


Figure 71 I6 EGR Engines with Air Start

4.7. I6 EGR AND POWER PACK 3KW, P. 7

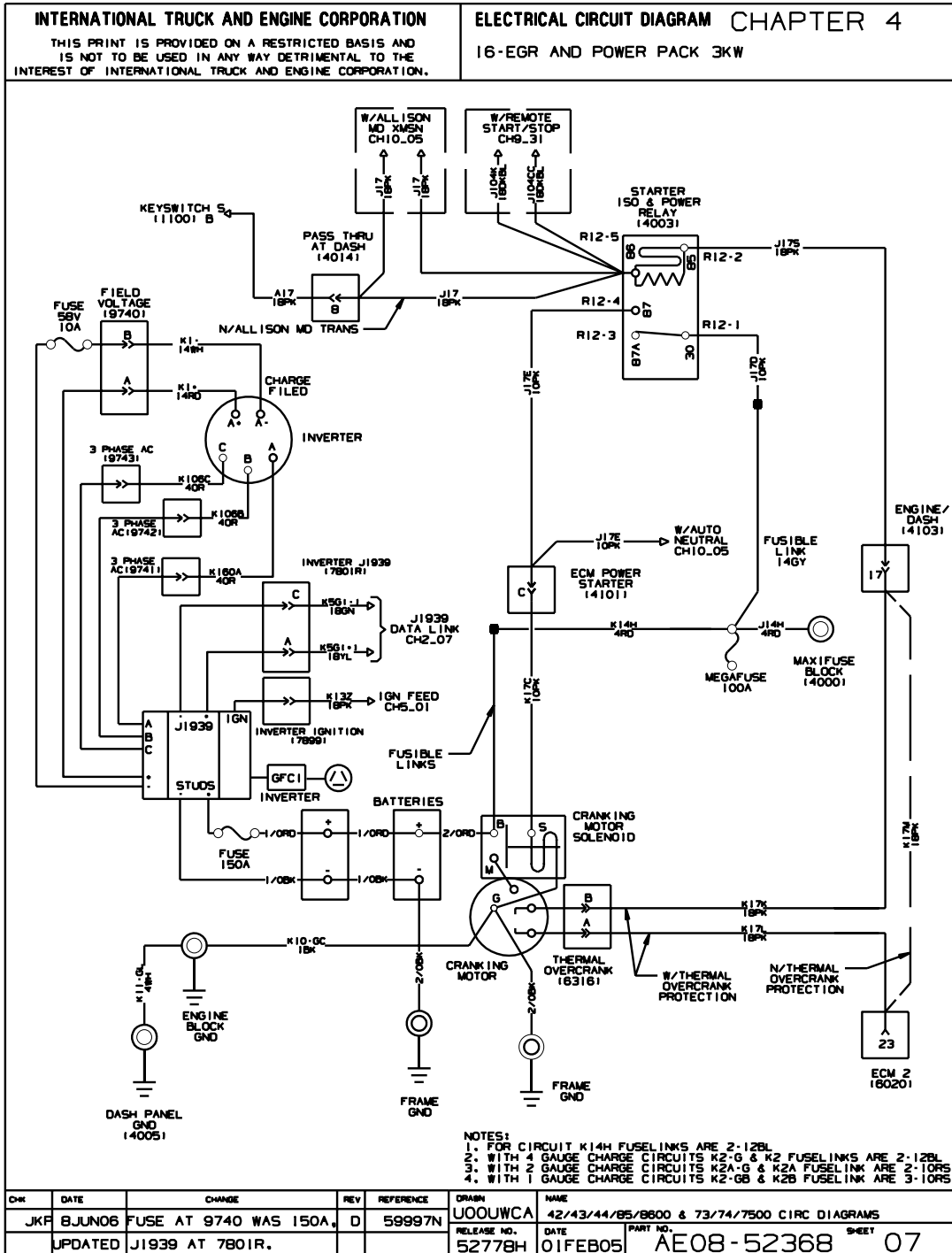


Figure 72 I6 EGR and Power Pack 3KW

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

### 5.1. FAN WIRING, INTERNATIONAL ENGINES, P. 1

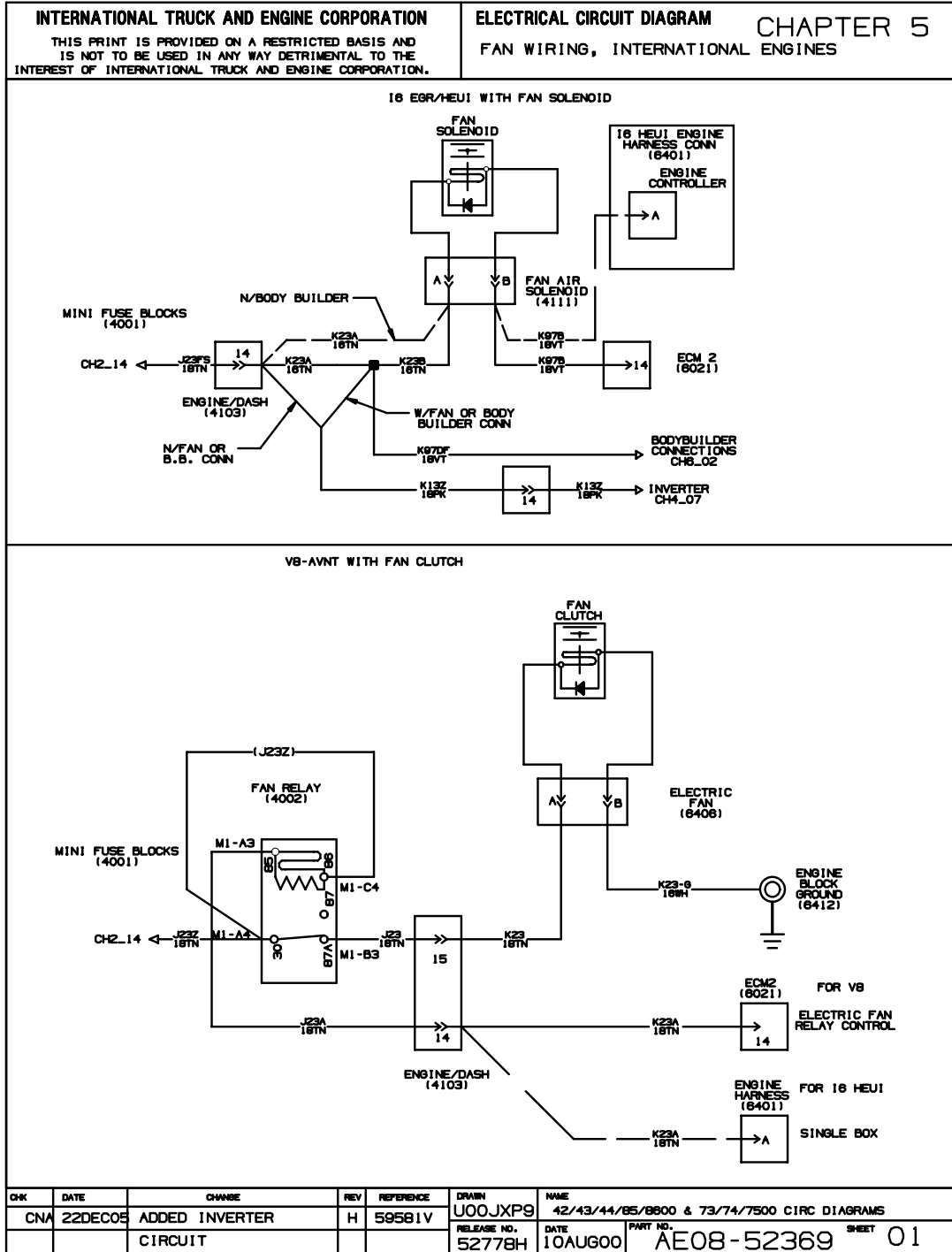


Figure 73 Fan Wiring, International Engines

5.2. ETHER START, P. 2

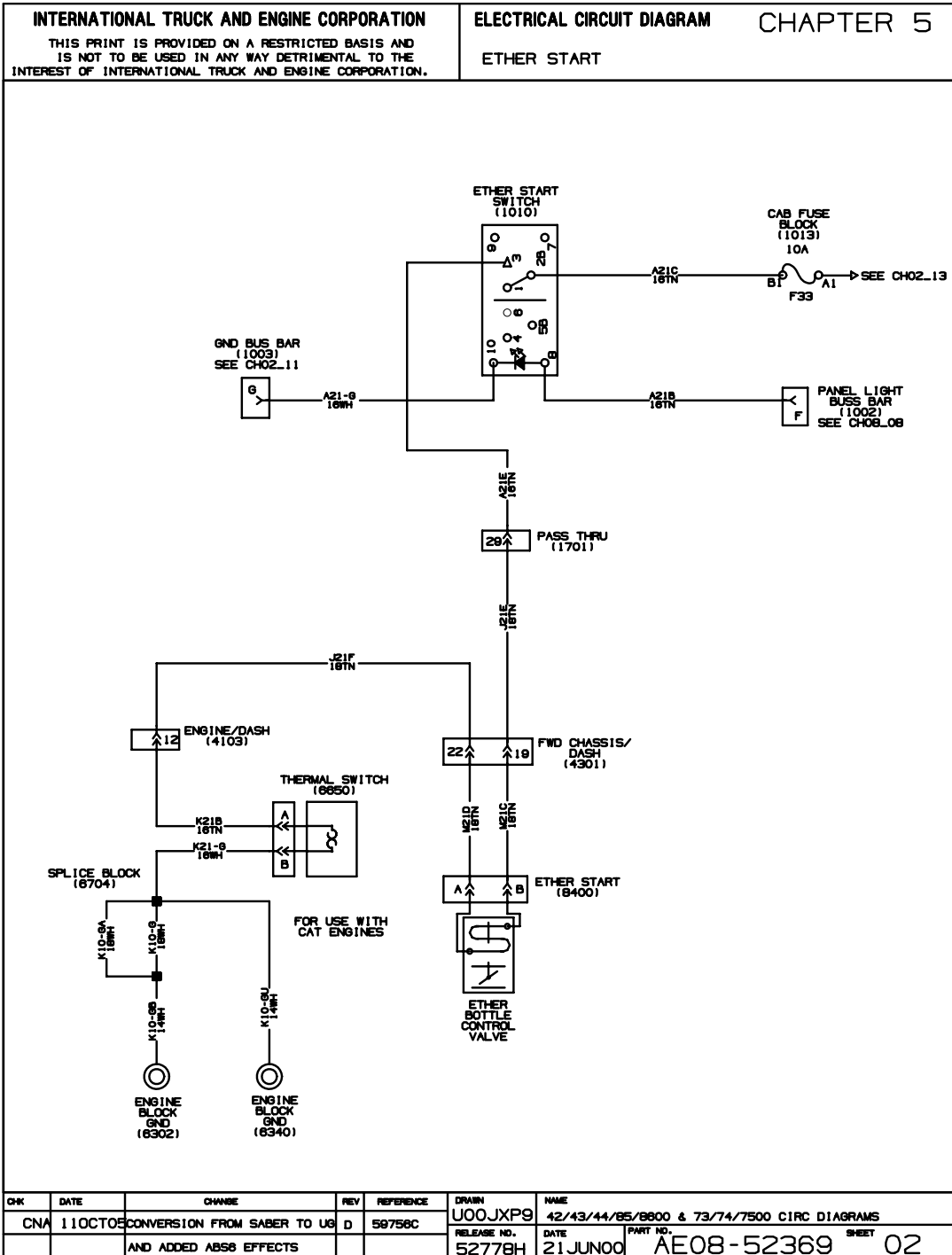


Figure 74 Ether Start

5.3. SNOW VALVE, P. 3

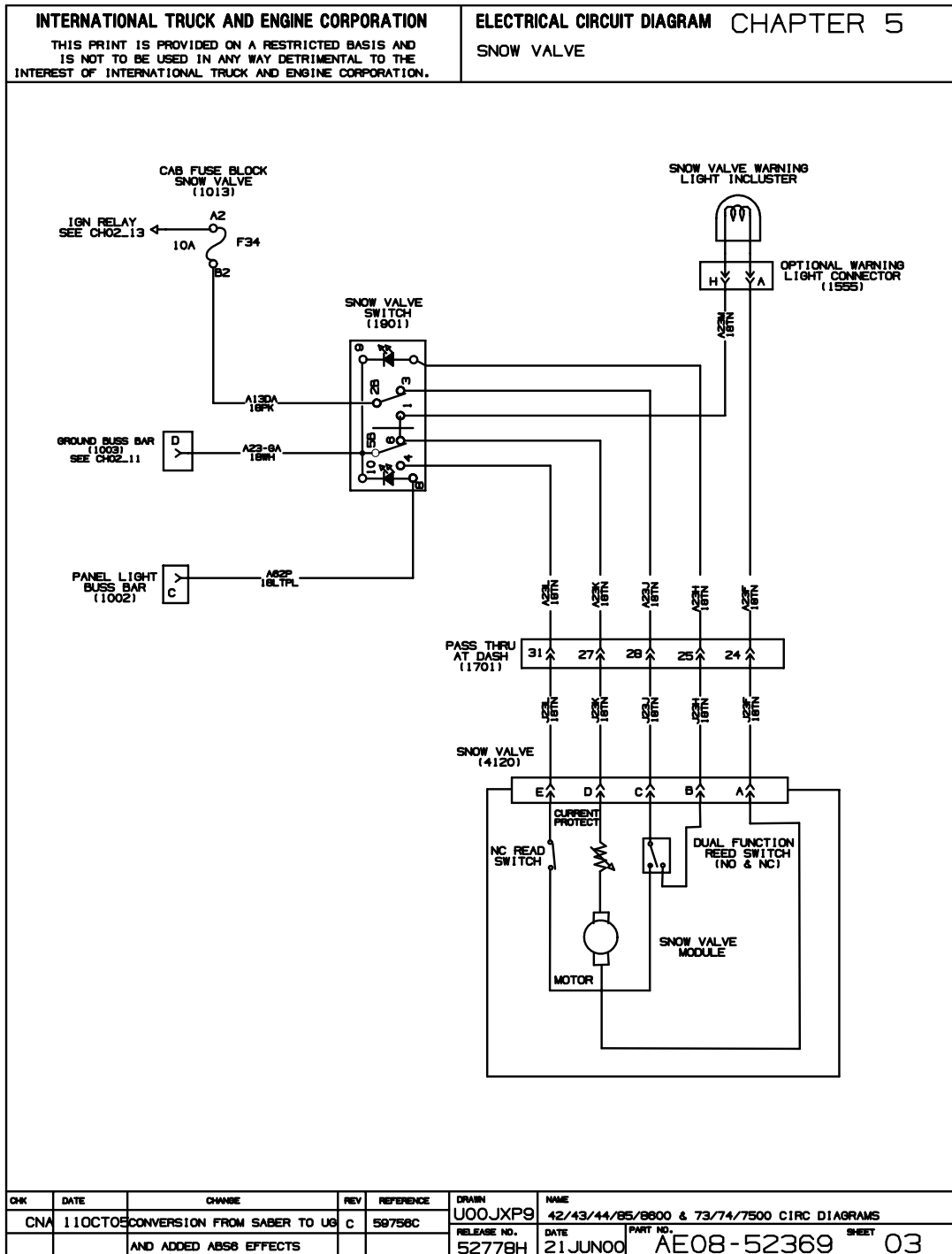


Figure 75 Snow Valve

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

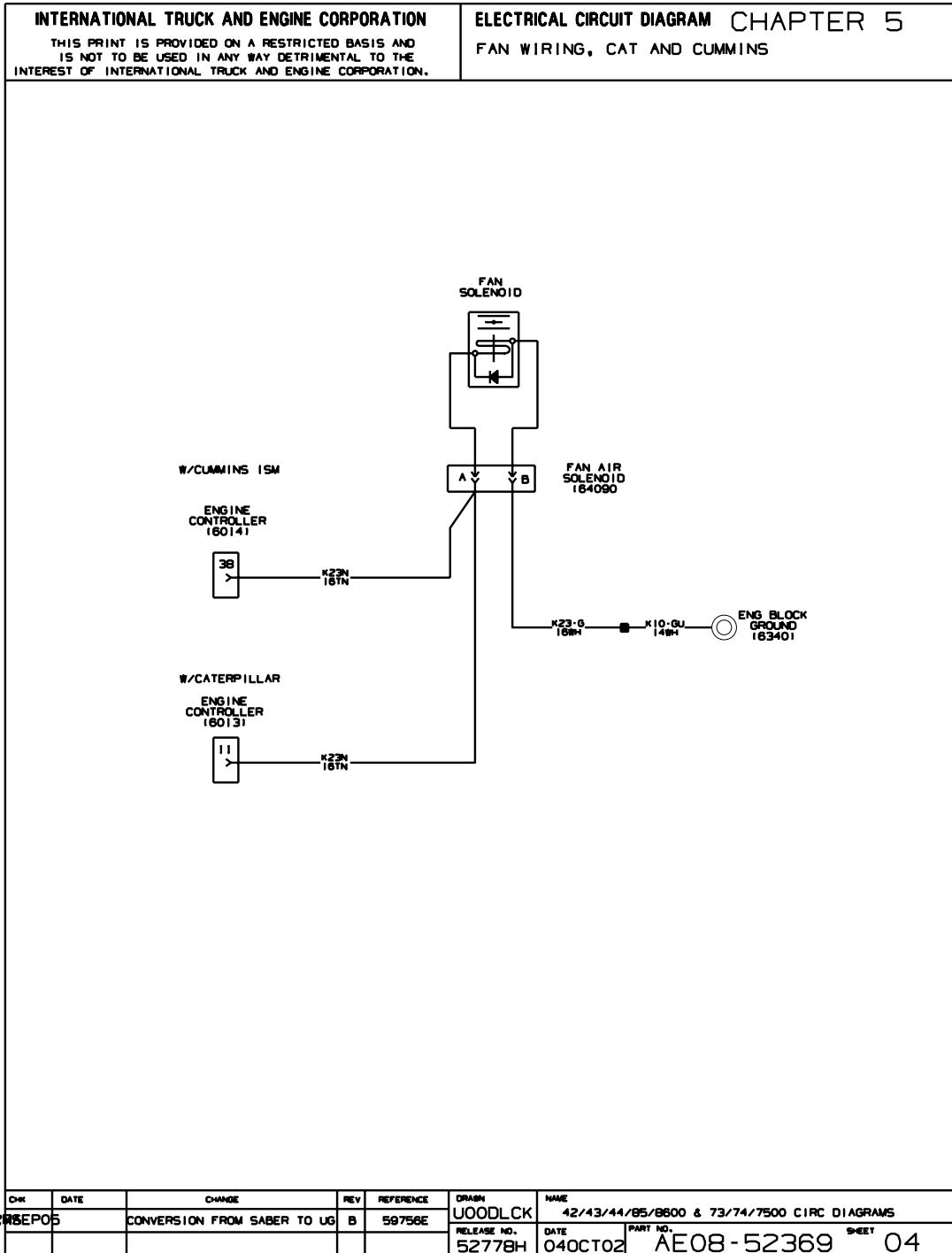


Figure 76 Fan Wiring, Caterpillar and Cummins

5.5. ENGINE FAN, MWM ENGINE, P. 5

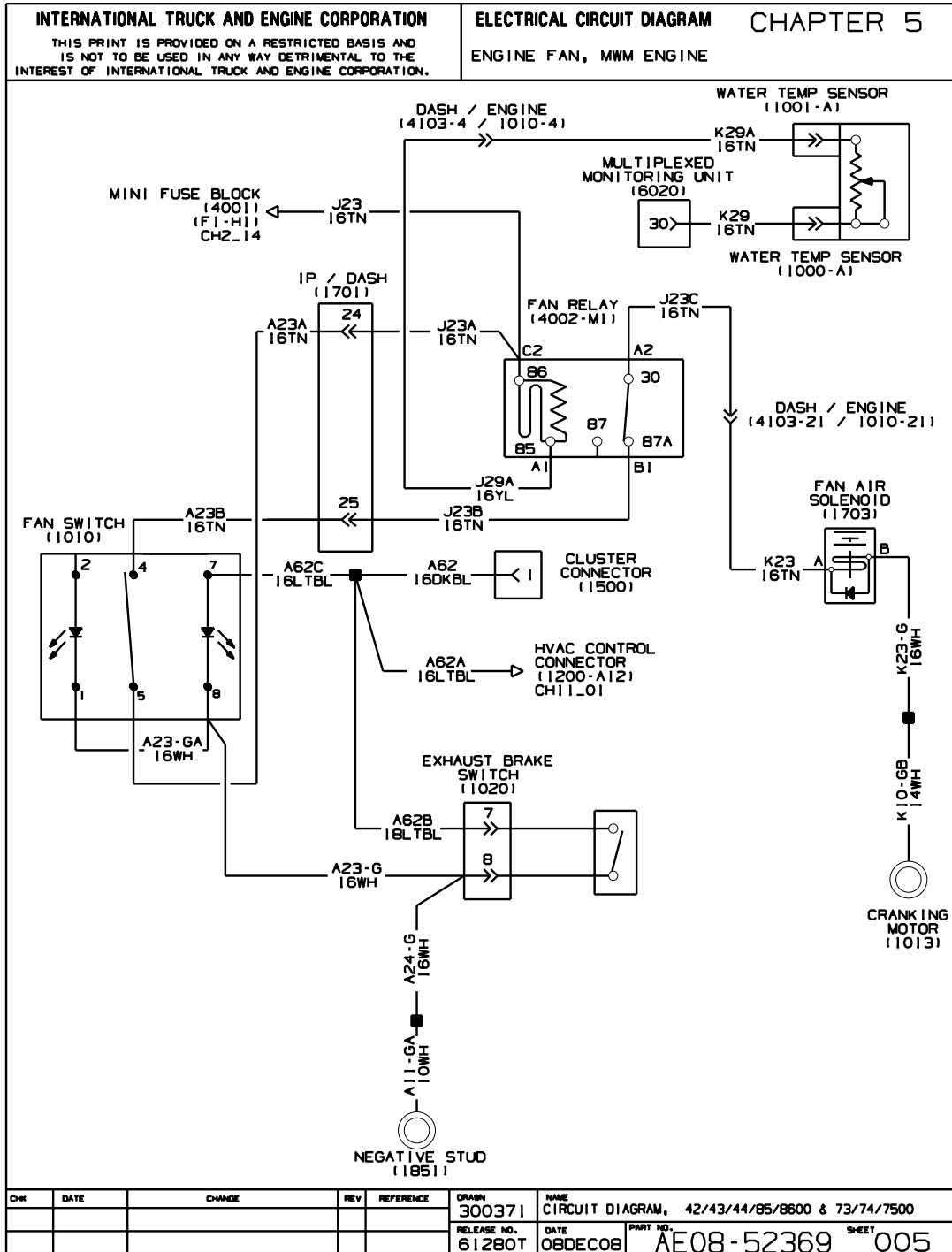


Figure 77 Engine Fan, MWM Engine

5.6. EXHAUST BRAKE, MWM ENGINE, P. 6

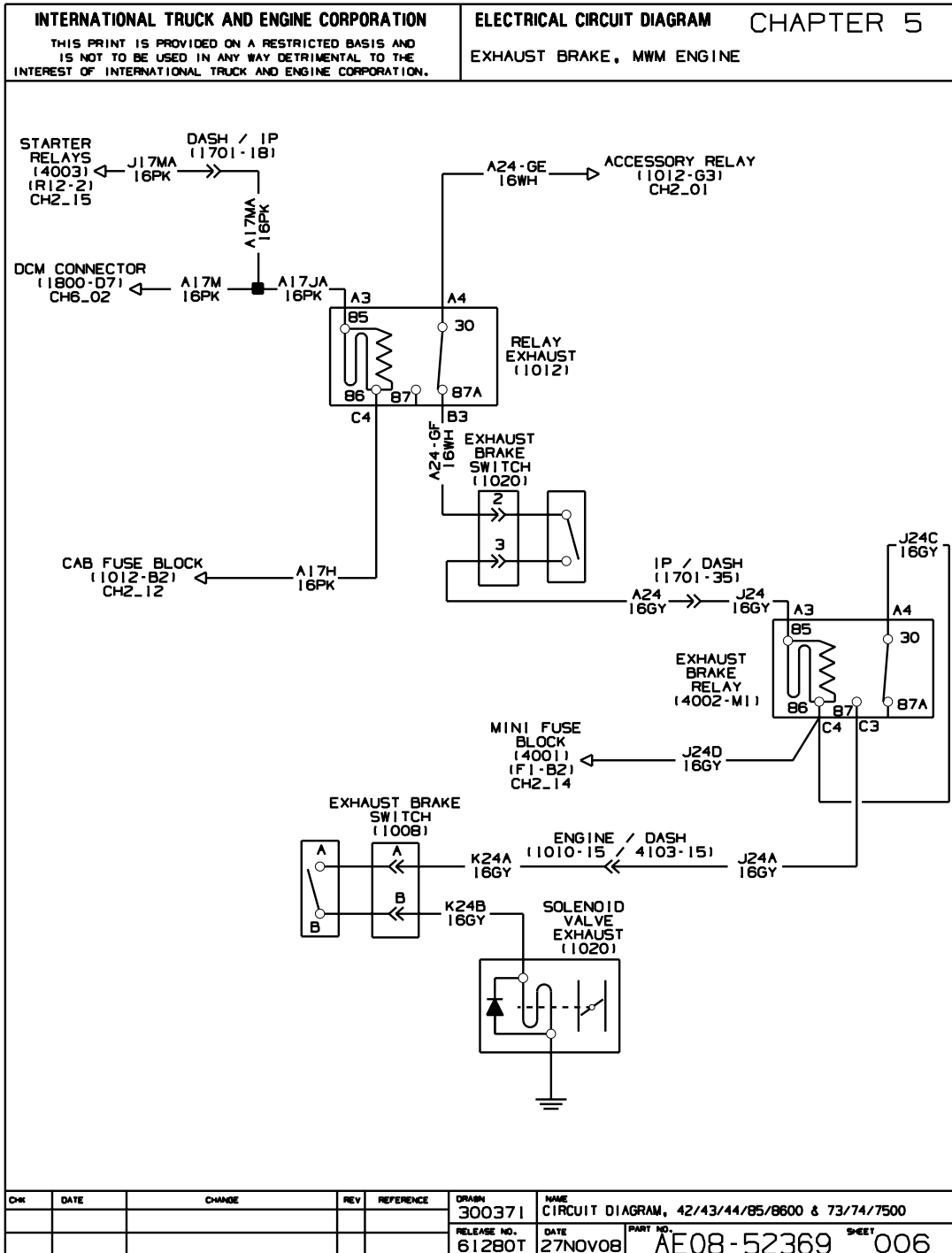


Figure 78 Exhaust Brake, MWM Engine



## 6. ELECTRONIC ENGINES (CHAPTER 6)

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

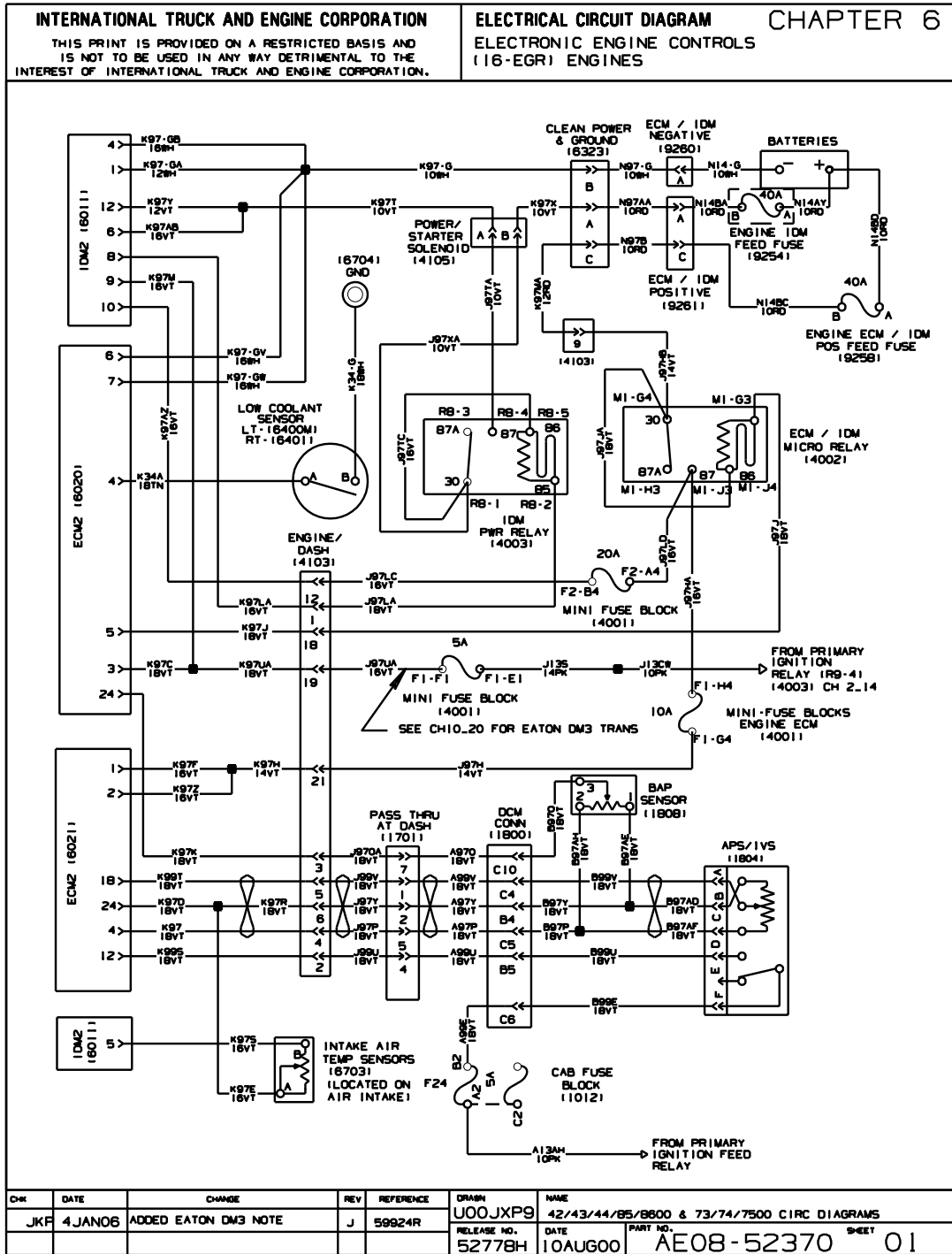


Figure 79 Electronic Engine Controls, I6-EGR Engines

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

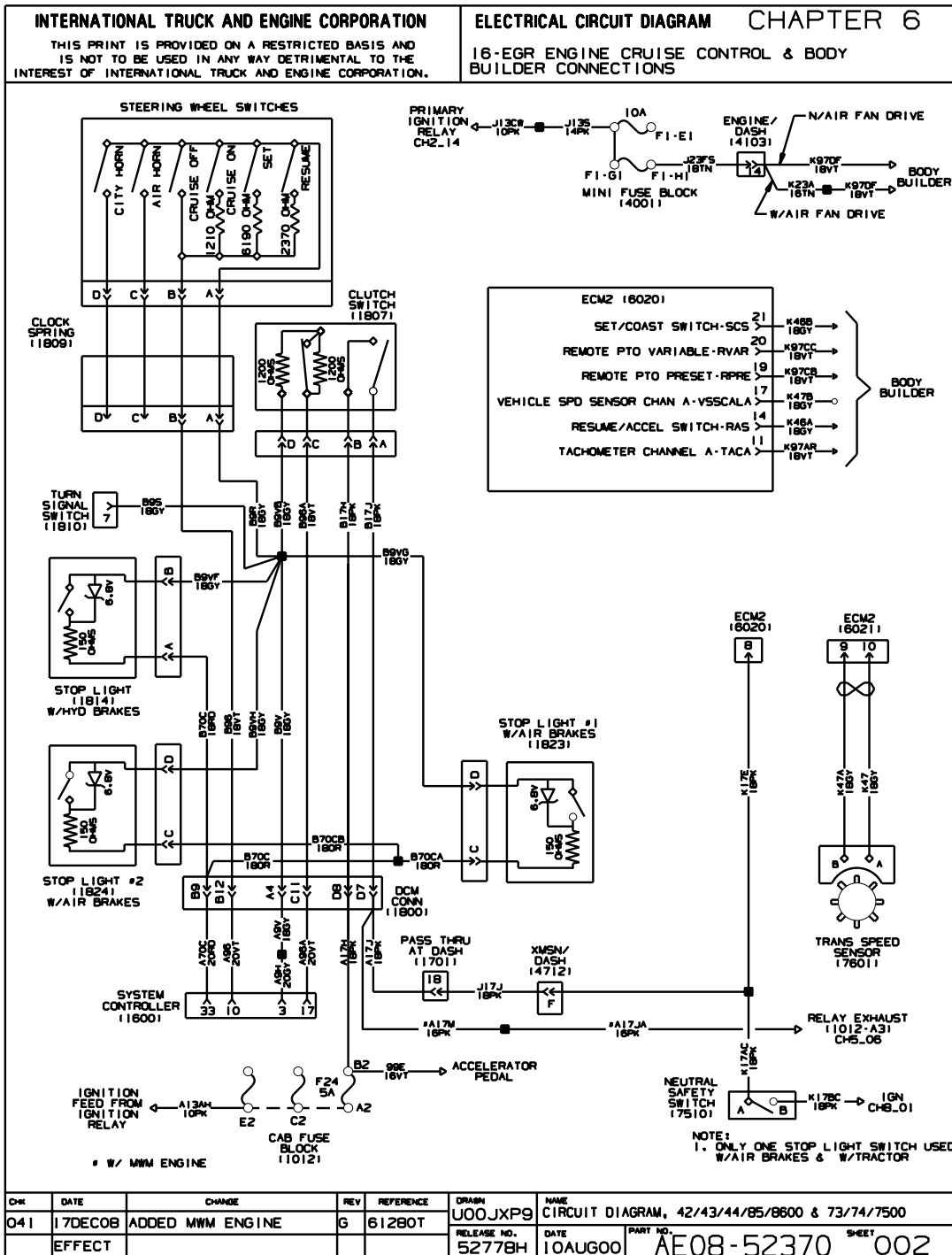


Figure 80 Electronic Engine Fuse Controls, I6-EGR Engine Cruise Control and Body Builder Connections

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

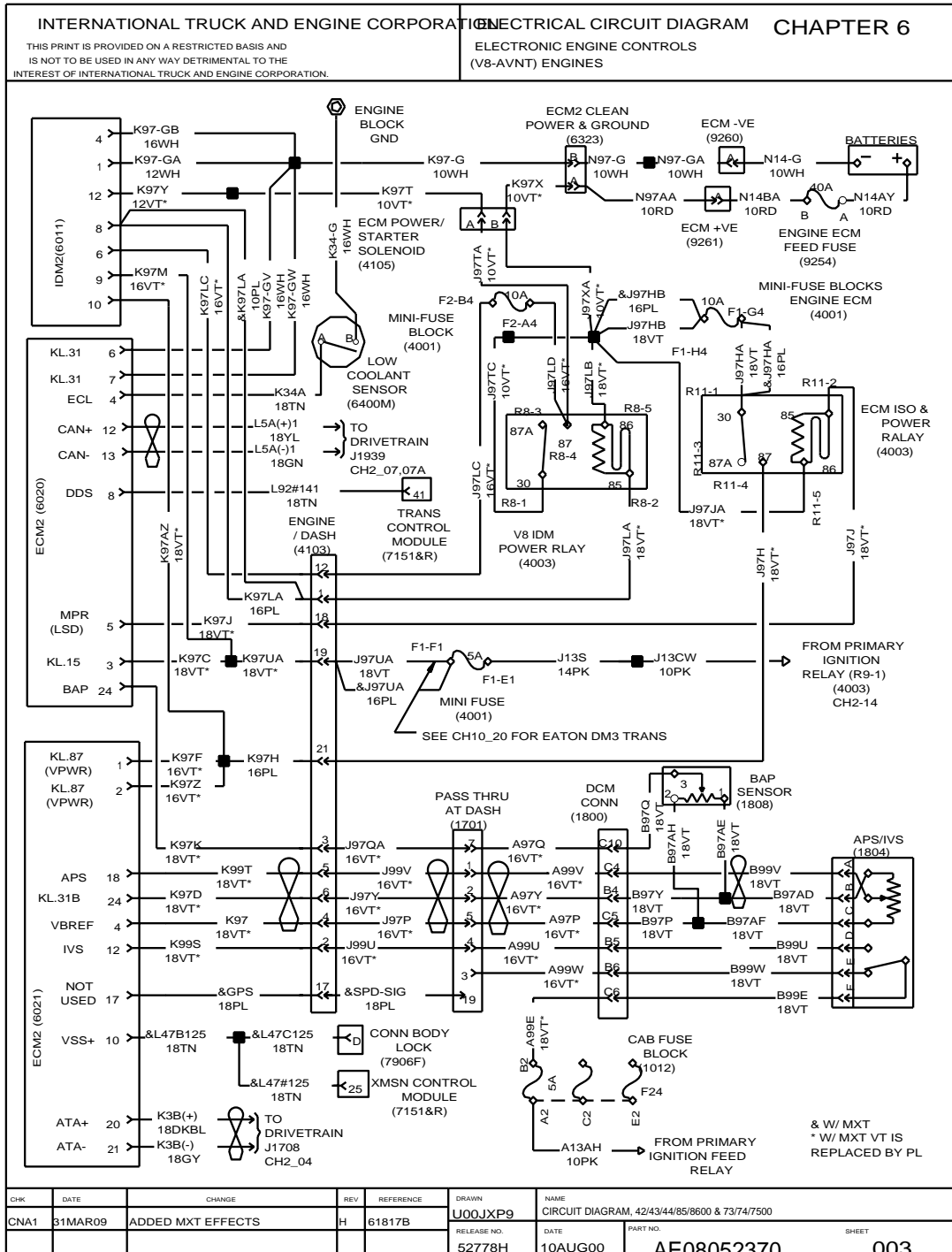


Figure 81 Electronic Engine Controls, (V8-AVNT) Engines

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

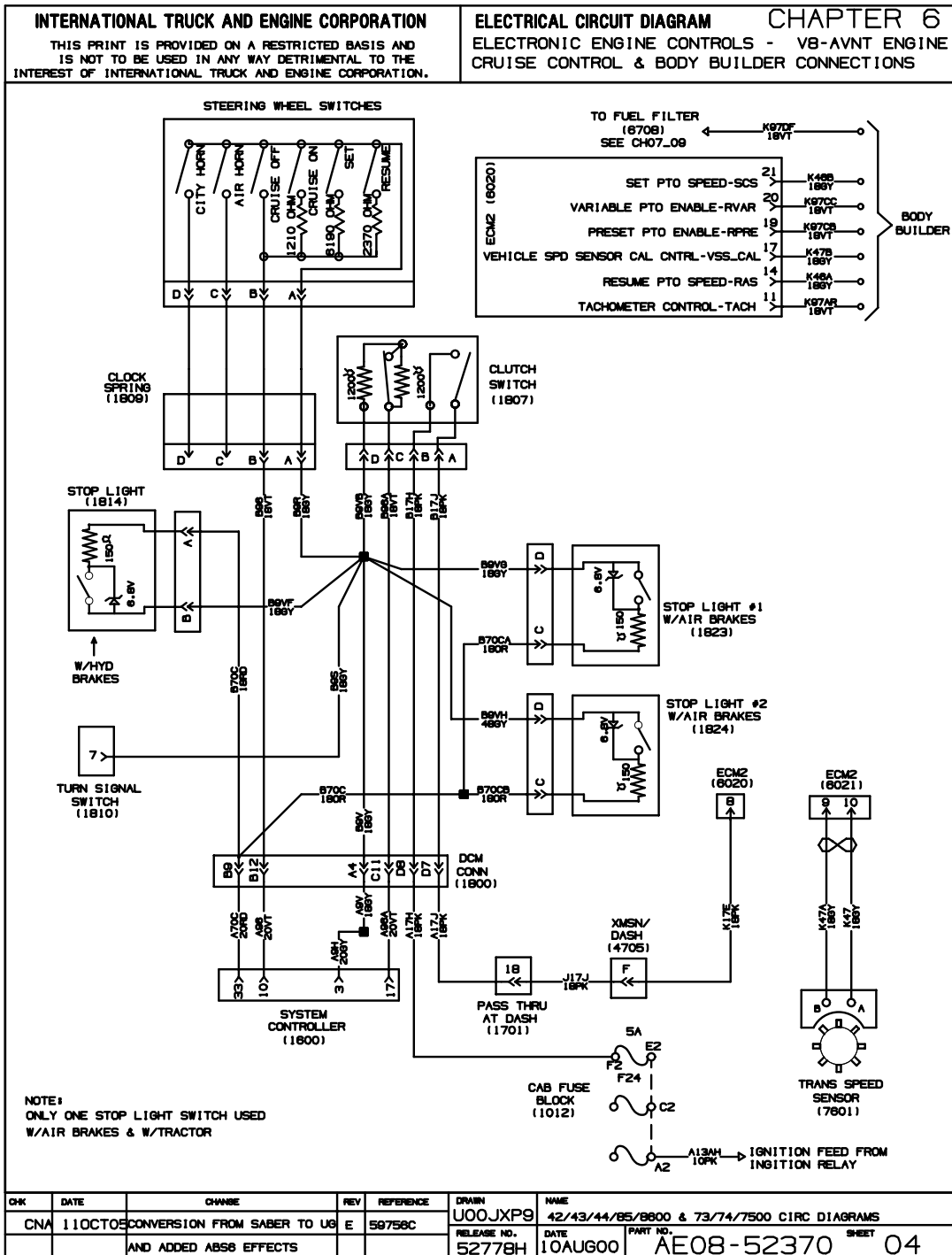


Figure 82 Electronic Engine Controls, V8-AVNT Engine Cruise Control and Body Builder Connections

6.5. CATERPILLAR C10, C11, C12, AND C13 ENGINES, P. 5

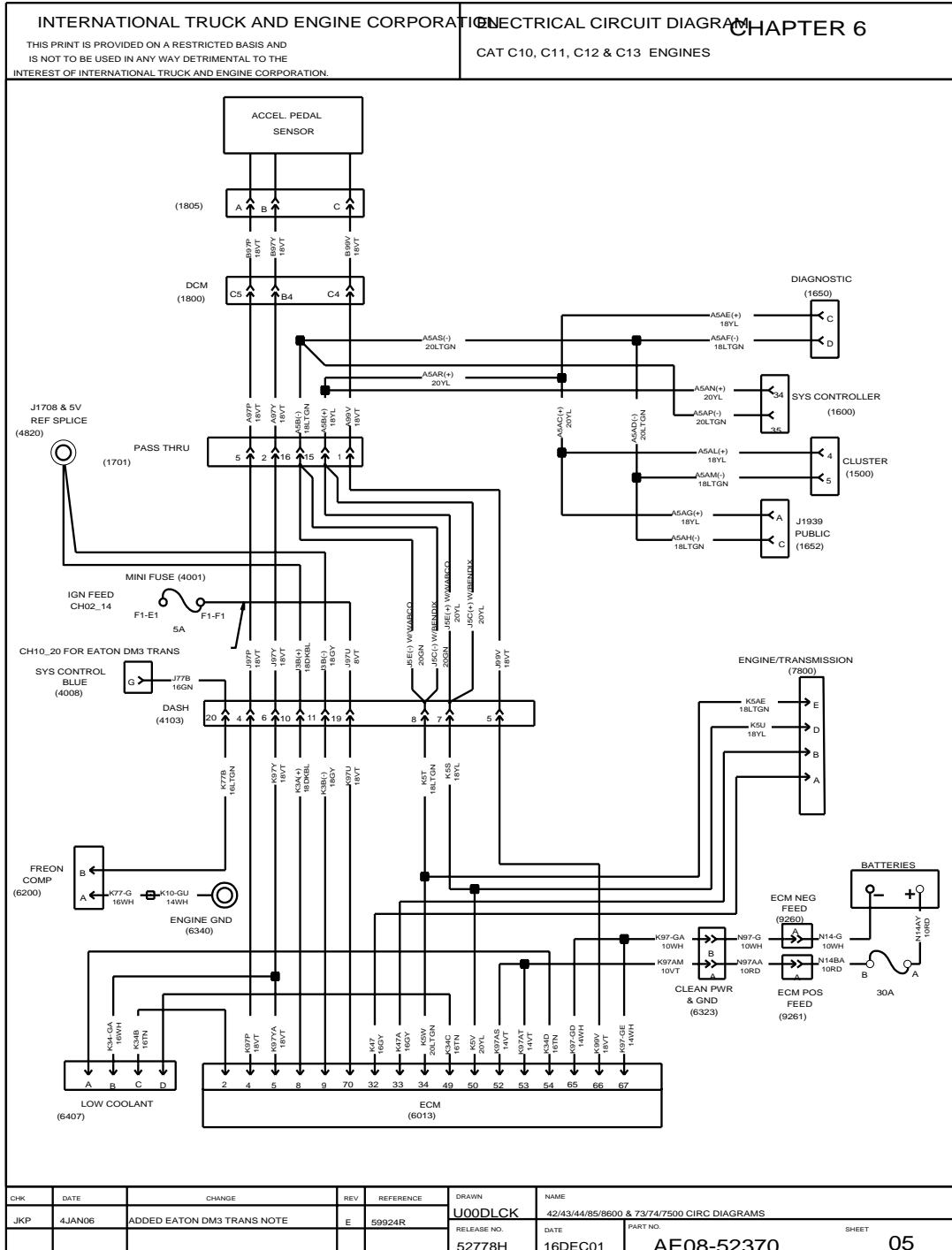


Figure 83 Caterpillar C10, C11, C12, and C13 Engines

6.6. CUMMINS ISM ENGINE, P. 6

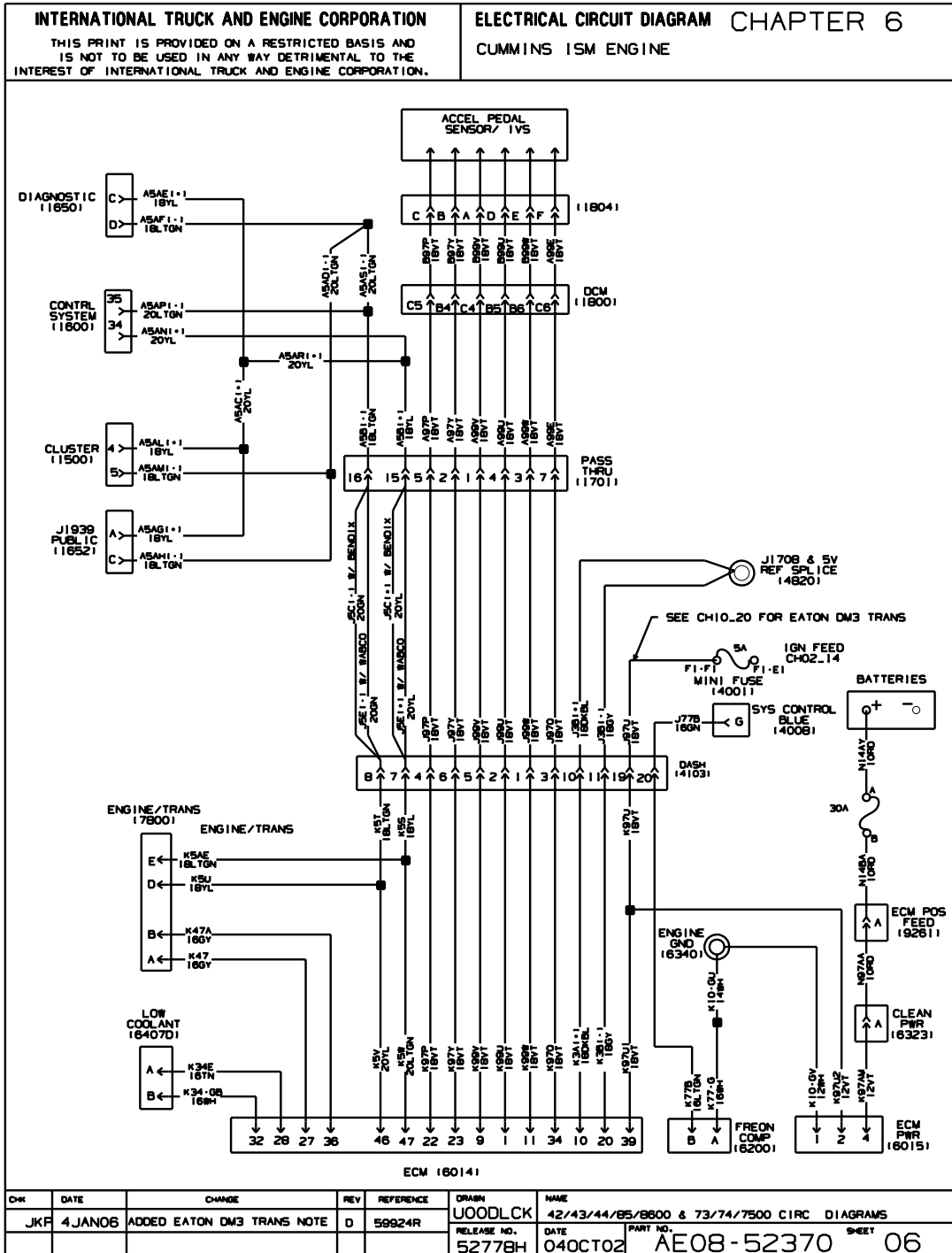


Figure 84 Cummins ISM Engine

6.7. I6 HEUI ENGINE, P. 7

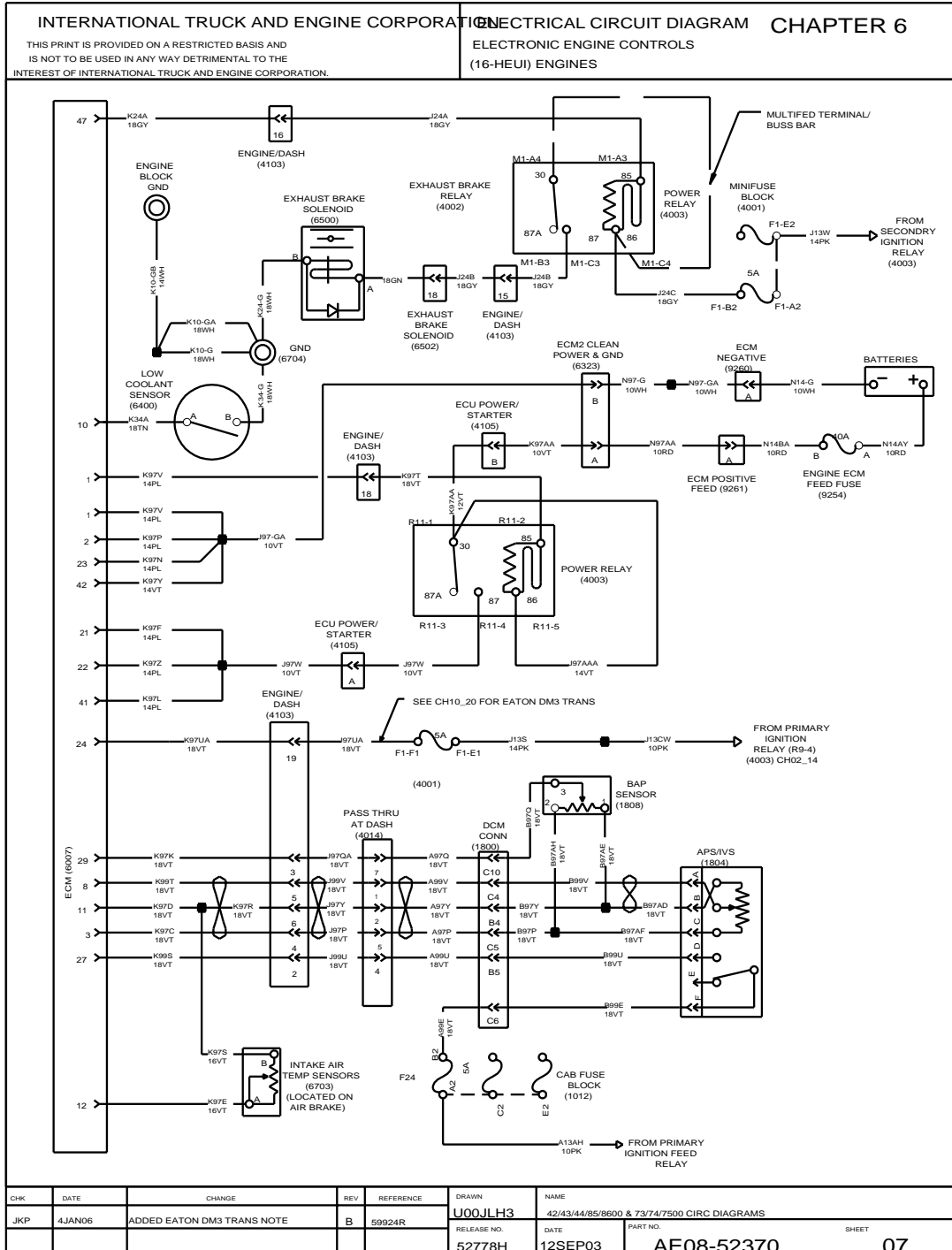


Figure 85 I6 HEUI Engine

**6.8. I6 HEUI ENGINE CRUISE CONTROL AND BODY BUILDER CONNECTIONS WITH MANUAL TRANSMISSION, P. 8**

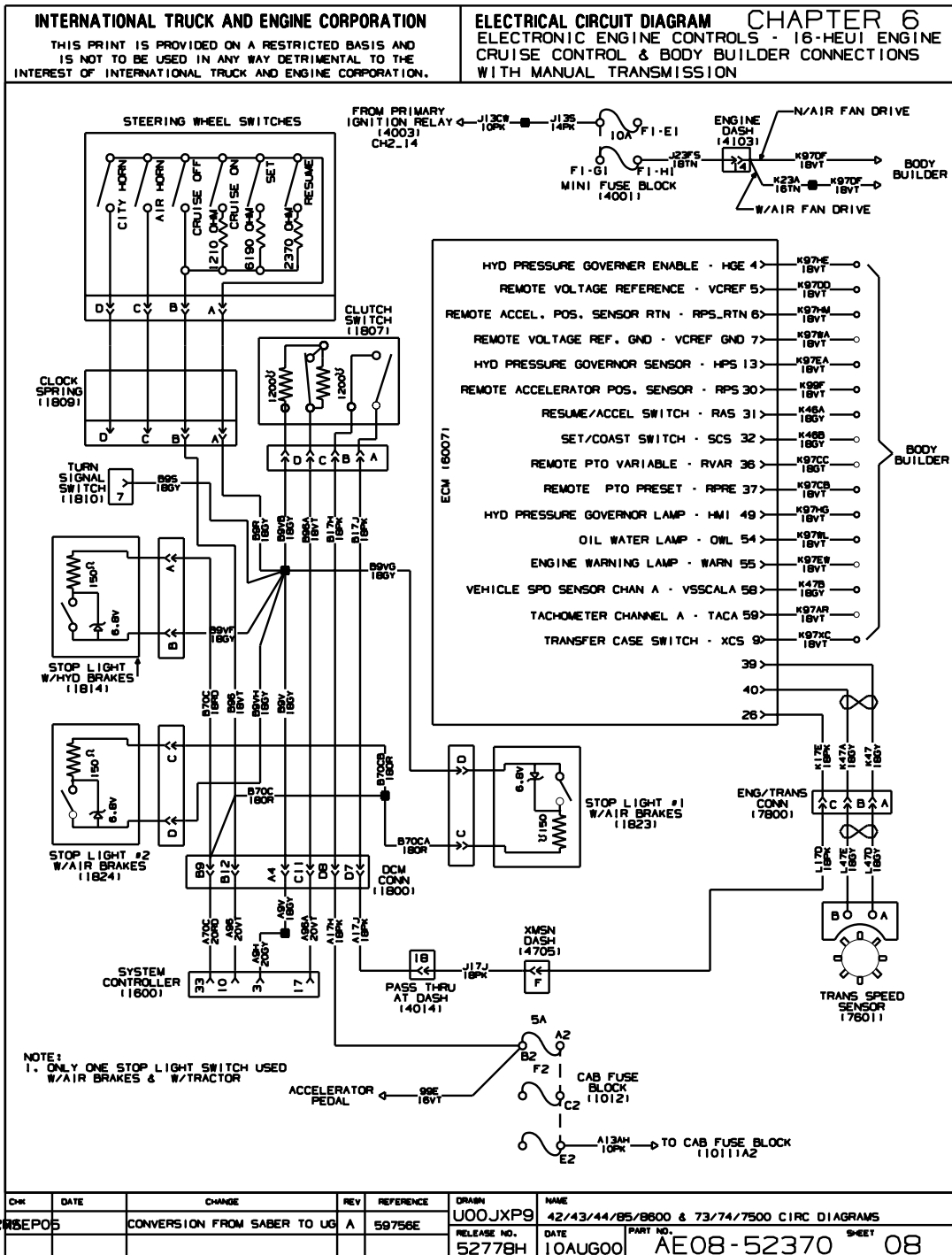


Figure 86 I6 HEUI Engine Cruise Control and Body Builder Connections with Manual Transmission



6.9. ROAD SPEED SIGNAL, P. 9

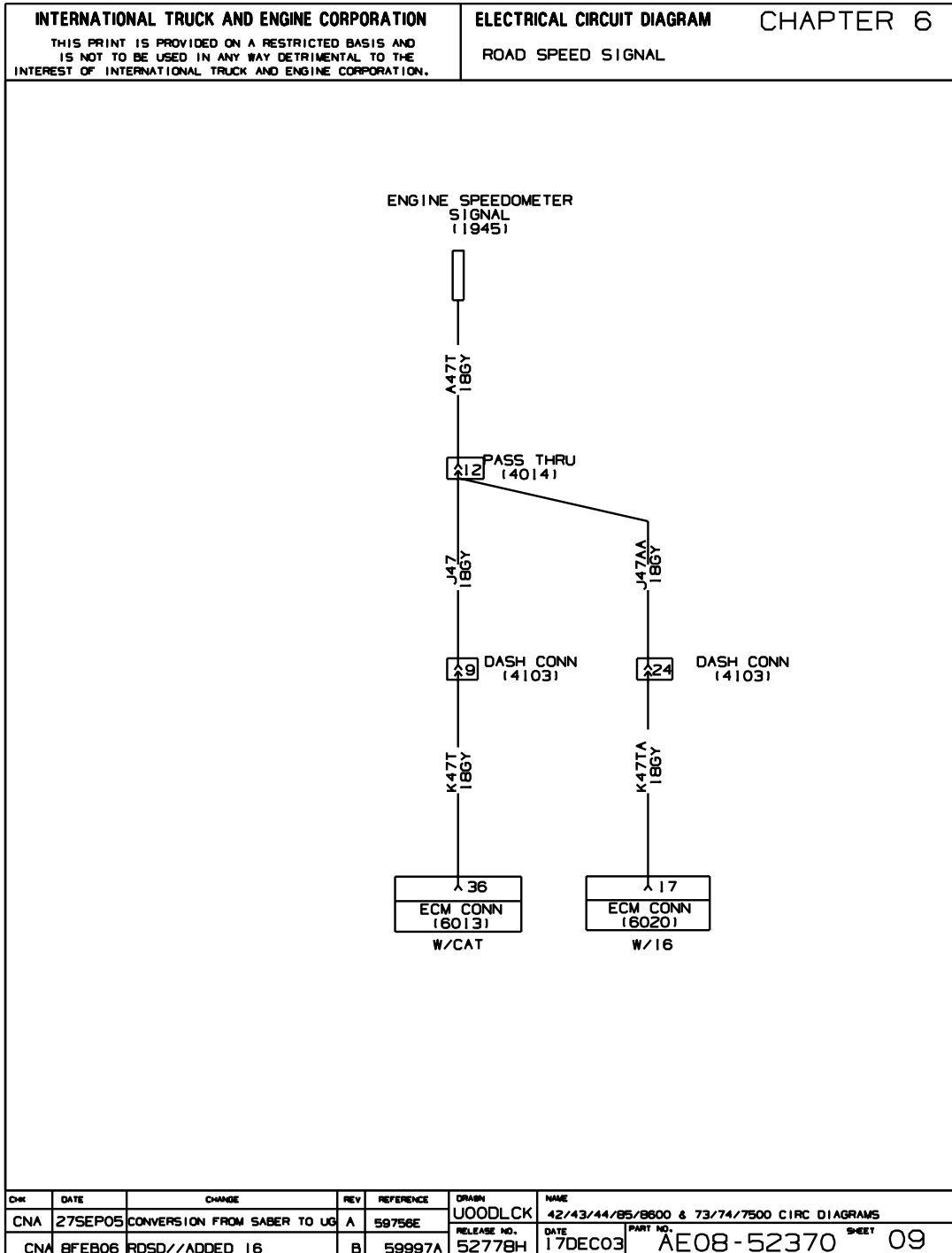


Figure 87 Road Speed Signal

6.10. MWM ENGINE — MULTIPLEXED MONITORING UNIT, P. 10

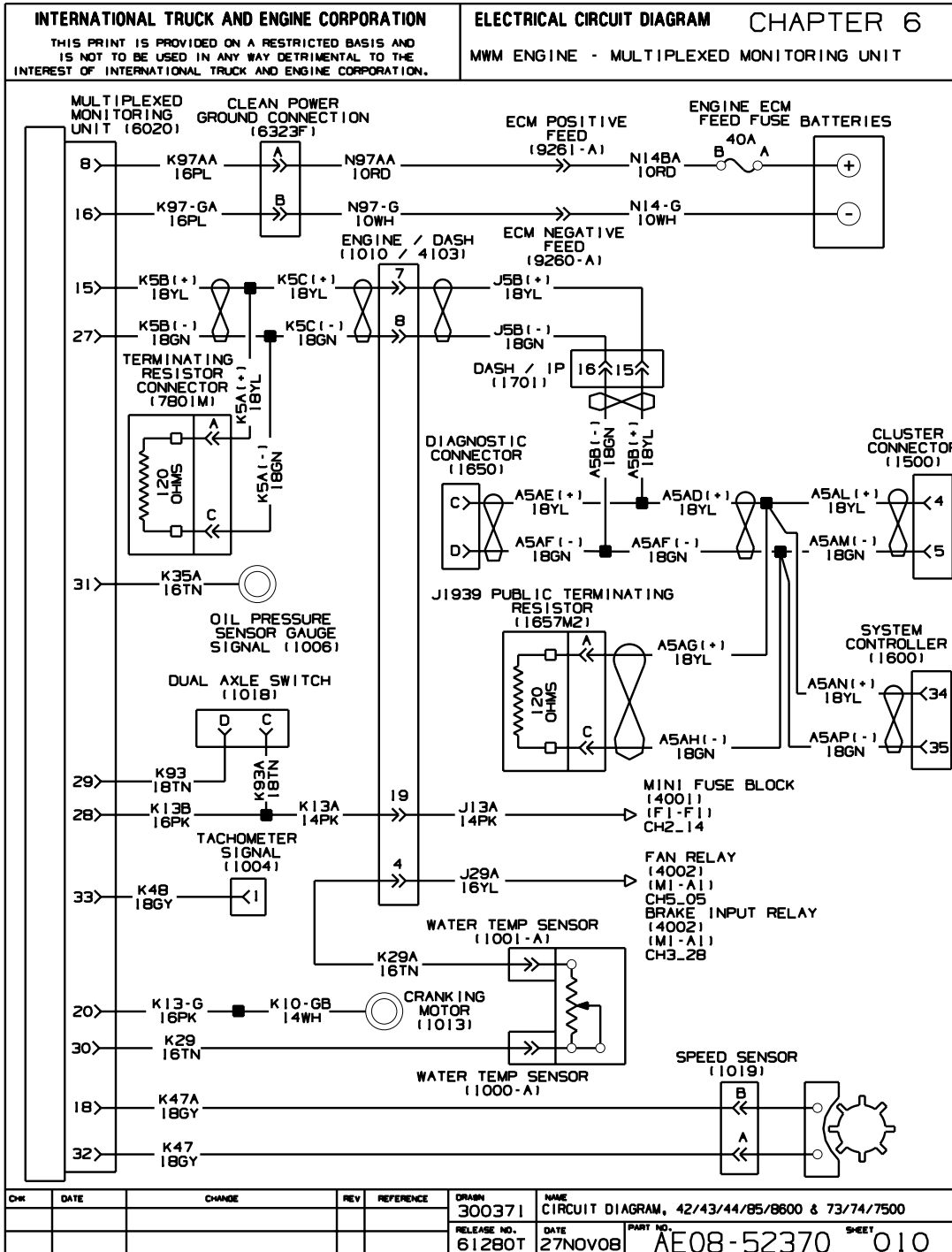


Figure 88 MWM Engine — Multiplexed Monitoring Unit

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

### 7.1. IP/GAUGE LIST, P. 1

<b>INTERNATIONAL TRUCK AND ENGINE CORPORATION</b> 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.	<b>ELECTRICAL CIRCUIT DIAGRAM CHAPTER 7</b> IP/GAUGES																																																				
INSTRUMENT PANEL GAUGES																																																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">GAUGE</th> <th style="width: 10%;">WARN LIGHT</th> <th style="width: 45%;">SIGNAL PATH</th> <th style="width: 20%;">SENSOR LOCATION</th> </tr> </thead> <tbody> <tr> <td>RPM (TACH)</td> <td style="text-align: center;">NO</td> <td>ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER</td> <td>ENGINE</td> </tr> <tr> <td>MPH/KPH (SPD)</td> <td style="text-align: center;">NO</td> <td>ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER</td> <td>TRANSMISSION</td> </tr> <tr> <td>FUEL</td> <td style="text-align: center;">YES</td> <td>SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER</td> <td>FUEL TANK</td> </tr> <tr> <td>VOLT</td> <td style="text-align: center;">YES</td> <td>SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER</td> <td>-</td> </tr> <tr> <td>AIR 1 (PRES)</td> <td style="text-align: center;">YES</td> <td>SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER</td> <td>INSIDE CAB-DASH PNL</td> </tr> <tr> <td>AIR 2 (PRES)</td> <td style="text-align: center;">YES</td> <td>SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER</td> <td>STEERING COL AREA</td> </tr> <tr> <td>WATER (TEMP)</td> <td style="text-align: center;">YES</td> <td>ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER</td> <td>ENGINE</td> </tr> <tr> <td>ENG OIL (TEMP)</td> <td style="text-align: center;">YES</td> <td>ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER</td> <td>ENGINE</td> </tr> <tr> <td>OIL (PRES)</td> <td style="text-align: center;">YES</td> <td>ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER</td> <td>ENGINE</td> </tr> <tr> <td>TRANS (TEMP)</td> <td style="text-align: center;">YES</td> <td>SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER</td> <td>TRANSMISSION</td> </tr> <tr> <td>AIR APPLICATION</td> <td style="text-align: center;">NO</td> <td>SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER</td> <td>FWD CHASSIS</td> </tr> <tr> <td>REAR AXLE TEMP</td> <td style="text-align: center;">YES</td> <td>SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER</td> <td>AXEL</td> </tr> </tbody> </table>		GAUGE	WARN LIGHT	SIGNAL PATH	SENSOR LOCATION	RPM (TACH)	NO	ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER	ENGINE	MPH/KPH (SPD)	NO	ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER	TRANSMISSION	FUEL	YES	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER	FUEL TANK	VOLT	YES	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER	-	AIR 1 (PRES)	YES	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER	INSIDE CAB-DASH PNL	AIR 2 (PRES)	YES	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER	STEERING COL AREA	WATER (TEMP)	YES	ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER	ENGINE	ENG OIL (TEMP)	YES	ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER	ENGINE	OIL (PRES)	YES	ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER	ENGINE	TRANS (TEMP)	YES	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER	TRANSMISSION	AIR APPLICATION	NO	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER	FWD CHASSIS	REAR AXLE TEMP	YES	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER	AXEL
GAUGE	WARN LIGHT	SIGNAL PATH	SENSOR LOCATION																																																		
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AIR 2 (PRES)	YES	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER	STEERING COL AREA																																																		
WATER (TEMP)	YES	ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER	ENGINE																																																		
ENG OIL (TEMP)	YES	ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER	ENGINE																																																		
OIL (PRES)	YES	ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER	ENGINE																																																		
TRANS (TEMP)	YES	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER	TRANSMISSION																																																		
AIR APPLICATION	NO	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER	FWD CHASSIS																																																		
REAR AXLE TEMP	YES	SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER	AXEL																																																		
NOTES: 1. WARNING LIGHTS ARE PART OF THE GAUGES AND LOCATED IN THE GAUGE																																																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">CHK</th> <th style="width: 10%;">DATE</th> <th style="width: 20%;">CHANGE</th> <th style="width: 10%;">REV</th> <th style="width: 10%;">REFERENCE</th> <th style="width: 10%;">DASH</th> <th style="width: 40%;">NAME</th> </tr> <tr> <td>2</td> <td>05SEP05</td> <td>CONVERSION FROM SABER TO UG</td> <td>B</td> <td>59756E</td> <td>U00JXP9</td> <td>42/43/44/85/8600 &amp; 73/74/7500 CIRC DIAGRAMS</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>RELEASE NO.</td> <td>DATE</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>52778H</td> <td>09AUG00</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>PART NO.</td> <td>SHEET</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>AE08-52371</td> <td>01</td> </tr> </table>		CHK	DATE	CHANGE	REV	REFERENCE	DASH	NAME	2	05SEP05	CONVERSION FROM SABER TO UG	B	59756E	U00JXP9	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS						RELEASE NO.	DATE						52778H	09AUG00						PART NO.	SHEET						AE08-52371	01										
CHK	DATE	CHANGE	REV	REFERENCE	DASH	NAME																																															
2	05SEP05	CONVERSION FROM SABER TO UG	B	59756E	U00JXP9	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS																																															
					RELEASE NO.	DATE																																															
					52778H	09AUG00																																															
					PART NO.	SHEET																																															
					AE08-52371	01																																															

Figure 89 IP/Gauge List

7.2. WARNING LIGHT LIST, P. 2

INTERNATIONAL TRUCK AND ENGINE CORPORATION				ELECTRICAL CIRCUIT DIAGRAM			CHAPTER 7	
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.				WARNING LIGHTS LIST				
IP WARNING LIGHTS								
WARNING LIGHT TITLE		SIGNAL PATH				SENSOR LOCATION		
RANGE INHIBITED		TRANS CTRLR/DRIVE TRAIN J1939/CLUSTER						
FUEL FILTER		SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER				FUEL FILTER		
ENGINE (YELLOW LED)		ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER						
ENGINE (RED LED)		ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER						
BRAKE PRESSURE (P)		SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER				SWITCH		
BRAKE FLUID		SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER				BRK RESEVOIR		
TRAC CTRL		TRUCK ABS CTRLR/DRIVE TRAIN J1939/CLUSTER						
CHECK TRANS		TRANS CTRLR/DRIVE TRAIN J1939/CLUSTER						
TRAILER ABS		TRLR ABS CTRLR/DRIVE TRAIN J1939/CLUSTER						
WASHER FLUID		SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER				WASHER BOTTLE		
(LEFT TURN)		SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER				TURN SIG SW		
AIR BAG		DISCRETE NOT ON DATA BUS						
WATER IN FUEL		SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER				FUEL FILTER		
COOLANT LEVEL		ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER				SURGE TANK		
CHECK ELECT SYS		SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER						
PARK (P)		SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER				SWITCH		
CRUISE		SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER						
ABS		TRUCK CTRLR/DRIVE TRAIN J1939/CLUSTER						
(RIGHT TURN)		SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER						
WAIT TO START		ENGINE CTRLR/DRIVE TRAIN J1939/CLUSTER						
FASTEN BELTS		SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER						
(HIGH BEAM IND)		SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER						
COLD AMB PROTEC		SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER						
RETARD OVERHEAT		TRANS CTRLR/DRIVE TRAIN J1939/CLUSTER				TRANSMISSION		
CHECK AC		SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER						
AUTO NEUTRAL		DISCRETE NOT ON DATA BUS				SWITCH		
ALTERNATOR		DISCRETE NOT ON DATA BUS						
PTO/THROTTLE		SYSTEM CTRLR/DRIVE TRAIN J1939/CLUSTER						
OPTIMIZED IDLE		DISCRETE NOT ON DATA BUS						
SNOW VALVE		DISCRETE NOT ON DATA BUS				SNOW VALVE		
FR AXLE DIFF LOCK		DISCRETE NOT ON DATA BUS				FWD RR AXLE		
RR AXLE DIFF LOCK		DISCRETE NOT ON DATA BUS				RR RR AXLE		
MESSAGE WAIT		DISCRETE NOT ON DATA BUS						
PTO		DISCRETE NOT ON DATA BUS						
CONVERTER TEMP		DISCRETE NOT ON DATA BUS						
TOUCHLOC RELEASE		DISCRETE NOT ON DATA BUS						
PARK FLUID		SYSTEM CTRLR/DRIVE TRAIN						
FR AXLE ENGAGED		DISCRETE NOT ON DATA BUS				TRANSFER CASE		
CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME		
CNA	29SEP03	ADDED FR AXLE ENGAGED.	B	58928U	LDDJXP9	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS		
					RELEASE NO.	DATE	PART NO.	
					P52778H	09AUG00	AE09-52371	
							SHEET 02	

Figure 90 Warning Light List

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

<b>INTERNATIONAL TRUCK AND ENGINE CORPORATION</b> 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.				<b>ELECTRICAL CIRCUIT DIAGRAM</b> <b>CHAPTER 7</b> WARNING LIGHTS CONTROLLED BY ENGINE, TRANSMISSION, ABS CONTROLLER			
THE FOLLOWING WARNING LIGHTS ARE CONTROLLED BY THE ENGINE, TRANSMISSION, OR ABS CONTROLLER OVER THE DATA BUS AND DO NOT HAVE INDEPENDENT CIRCUITRY THAT CAN BE OR NEEDS TO BE SHOWN: DO NOT SHIFT ENGINE (YELLOW LENS) ENGINE (RED LENS) TRAC CTRL CHECK TRANS TRAILER ABS CHECK ELECTR SYS ABS WAIT TO START RETARD OVERHEAT AUTO NEUTRAL OPTIMIZED IDLE							
CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	
2	05EPO5	CONVERSION FROM SABER TO UG	B	59756E	U00JXP9	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS	
					RELEASE NO.	DATE	
					52778H	20JUN00	
						PART NO.	
						AE08-52371	
						SHEET	
						03	

Figure 91 Warning Lights Controlled by Engine, Transmission, ABS Controller

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

INTERNATIONAL TRUCK AND ENGINE CORPORATION 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.				ELECTRICAL CIRCUIT DIAGRAM      CHAPTER 7 ENG OIL PRESS & TEMP, SPEEDOMETER, TACH, VOLTMETER & WATER TEMP GAUGE CIRCUITS			
<p>REFER TO CONSOLIDATED ENGINE/VEHICLE CONTROLLER DIAGNOSTICS MANUAL EGES-175 (DT466), EGES-190 (V8-AVNT), FOR CIRCUIT DIAGRAMS SHOWING INPUT CIRCUITRY FOR THE FOLLOWING DATALINK DRIVEN SYSTEM:</p> <p>ENGINE OIL PRESSURE GAUGE</p> <p>ENGINE OIL TEMPERATURE GAUGE</p> <p>SPEEDOMETER GAUGE</p> <p>TACHOMETER GAUGE</p> <p>WATER TEMPERATURE GAUGE</p>							
CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	
PEC	16JAN01	PRODUCTION RELEASE.	A	P54304U	U00JXP9	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS	
					RELEASE NO.	DATE	
					P52778H	20JUN00	
						PART NO.	
						AE08-52371	
						SHEET	
						04	

**Figure 92 Engine Oil Pressure and Temp, Speedometer, Tach, Voltmeter and Water Temp Gauge Circuits**

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

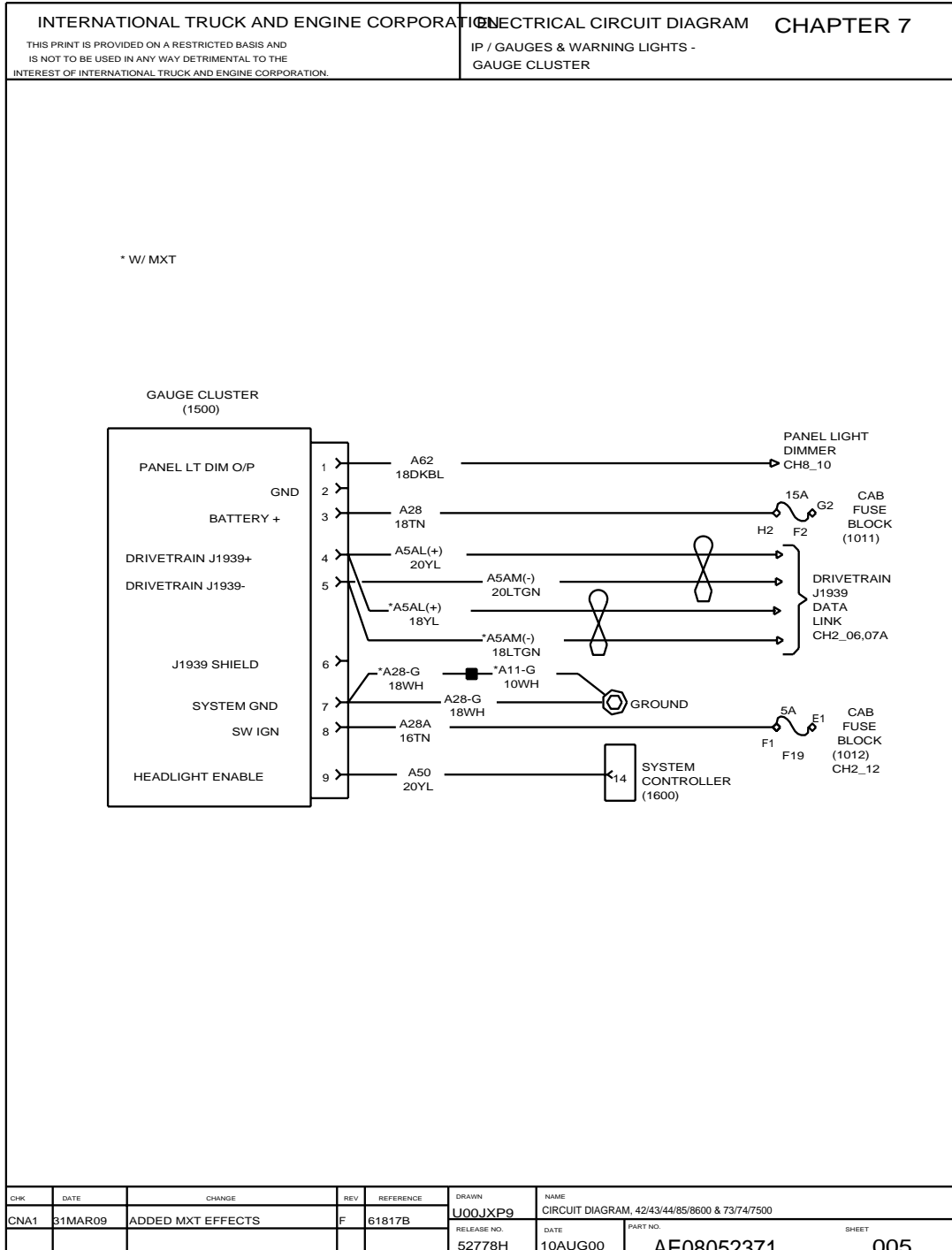


Figure 93 IP/Gauges and Warning Lights — Gauge Cluster

7.6. AIR PRESSURE INPUT CIRCUIT, P. 6

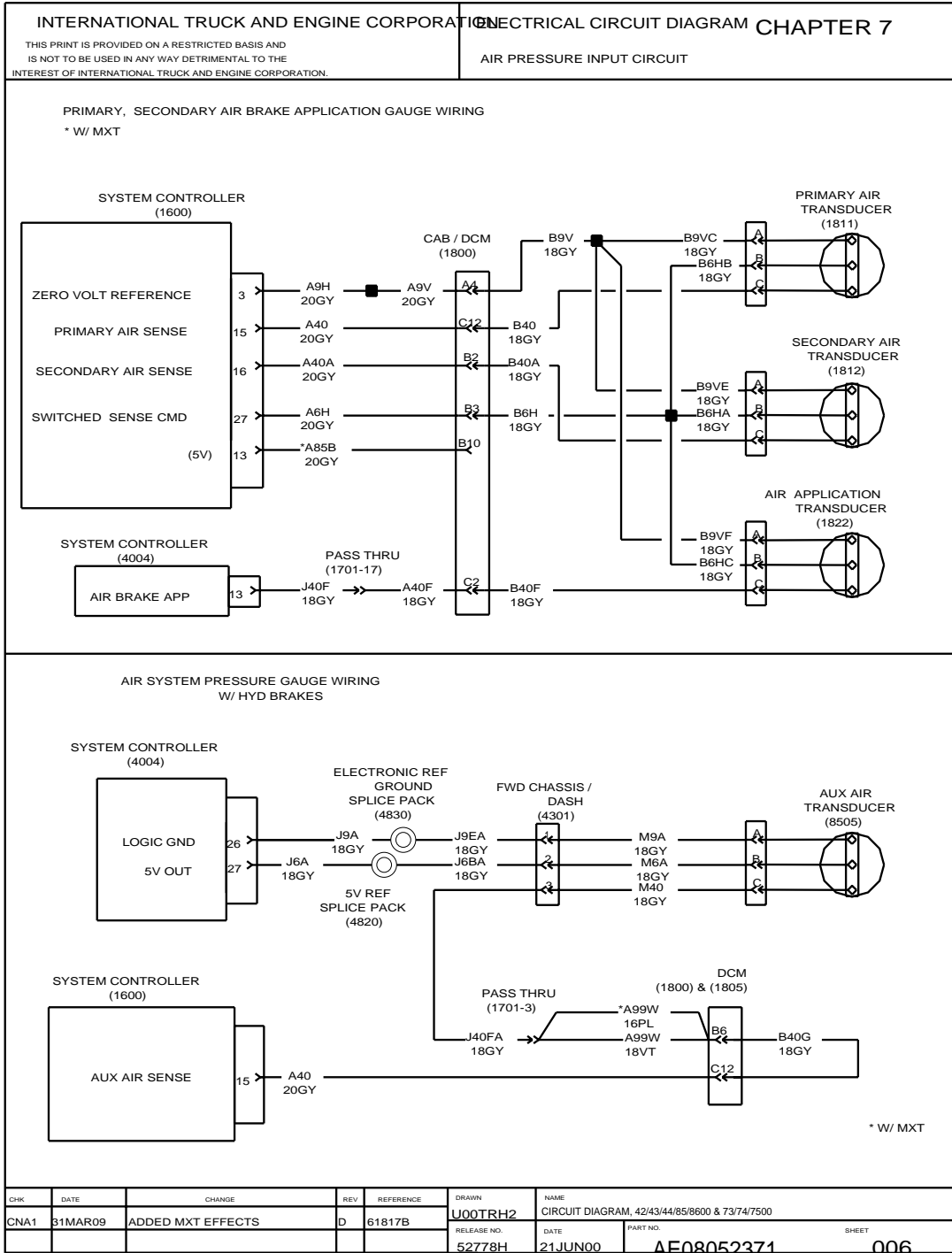


Figure 94 Air Pressure Input Circuit



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

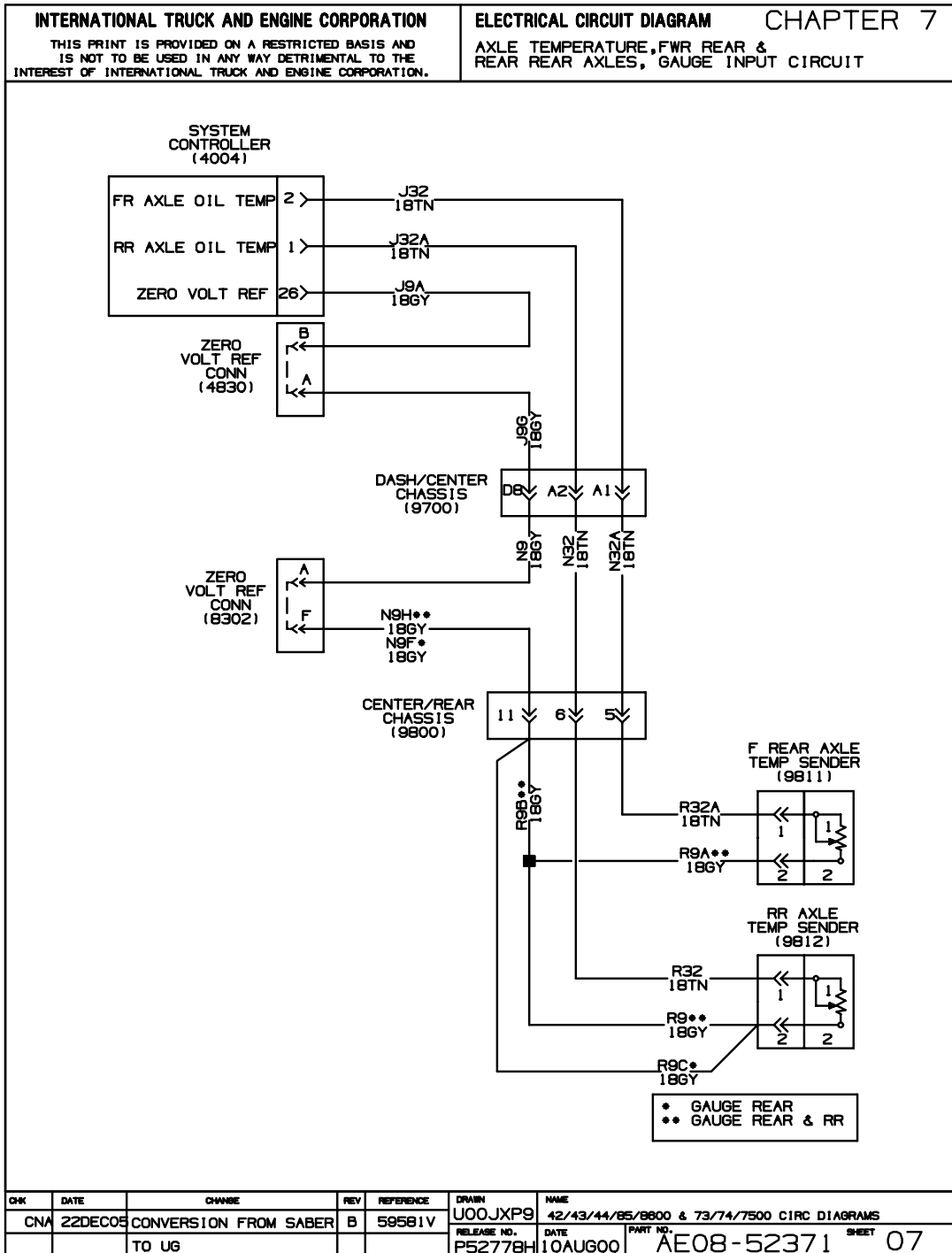
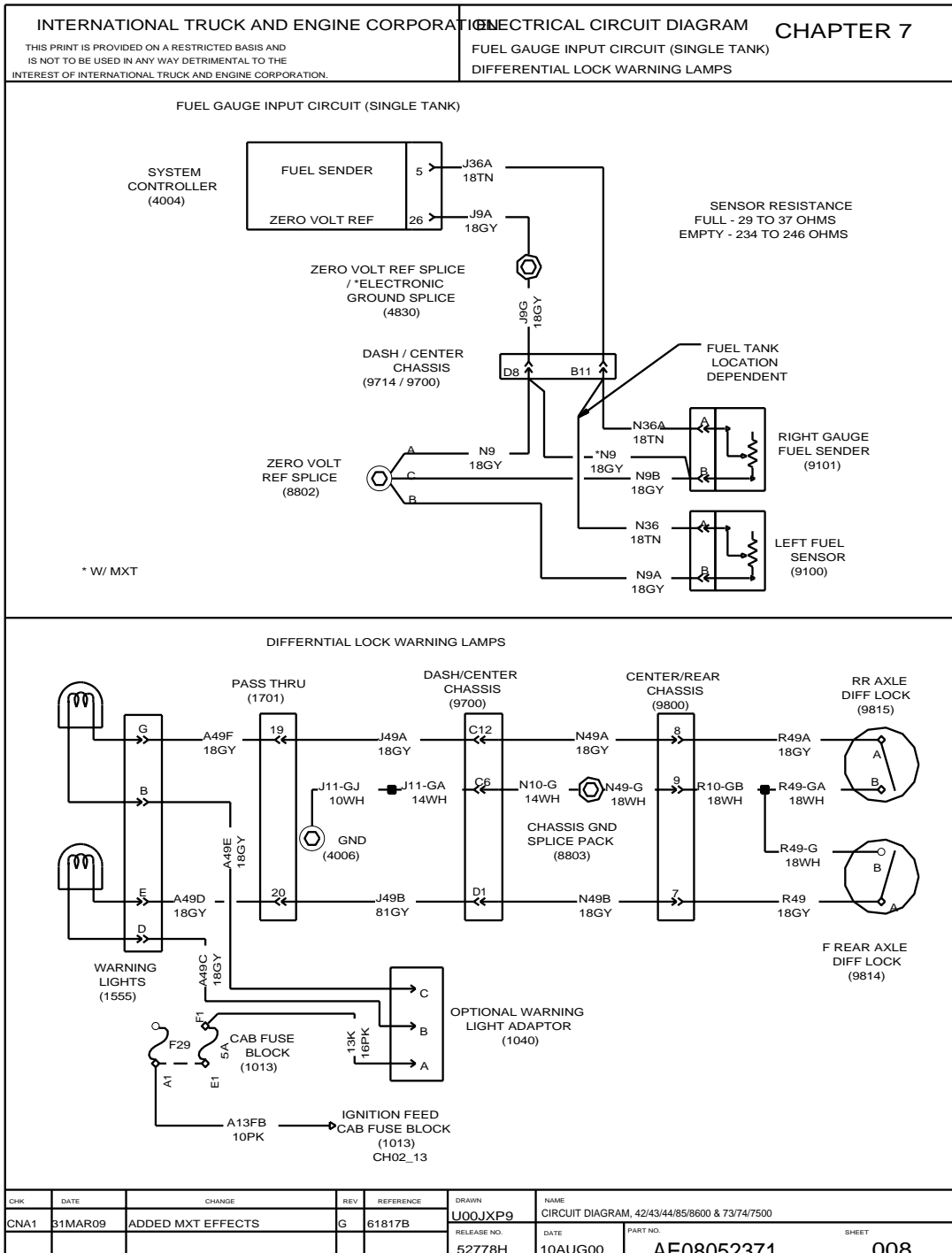


Figure 95 Axle Temperature, FWD Rear and Rear Axles, Gauge Input Circuit

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



**Figure 96 Fuel Gauge Input Circuit (Single Tank) Differential Lock Warning Lamps**

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

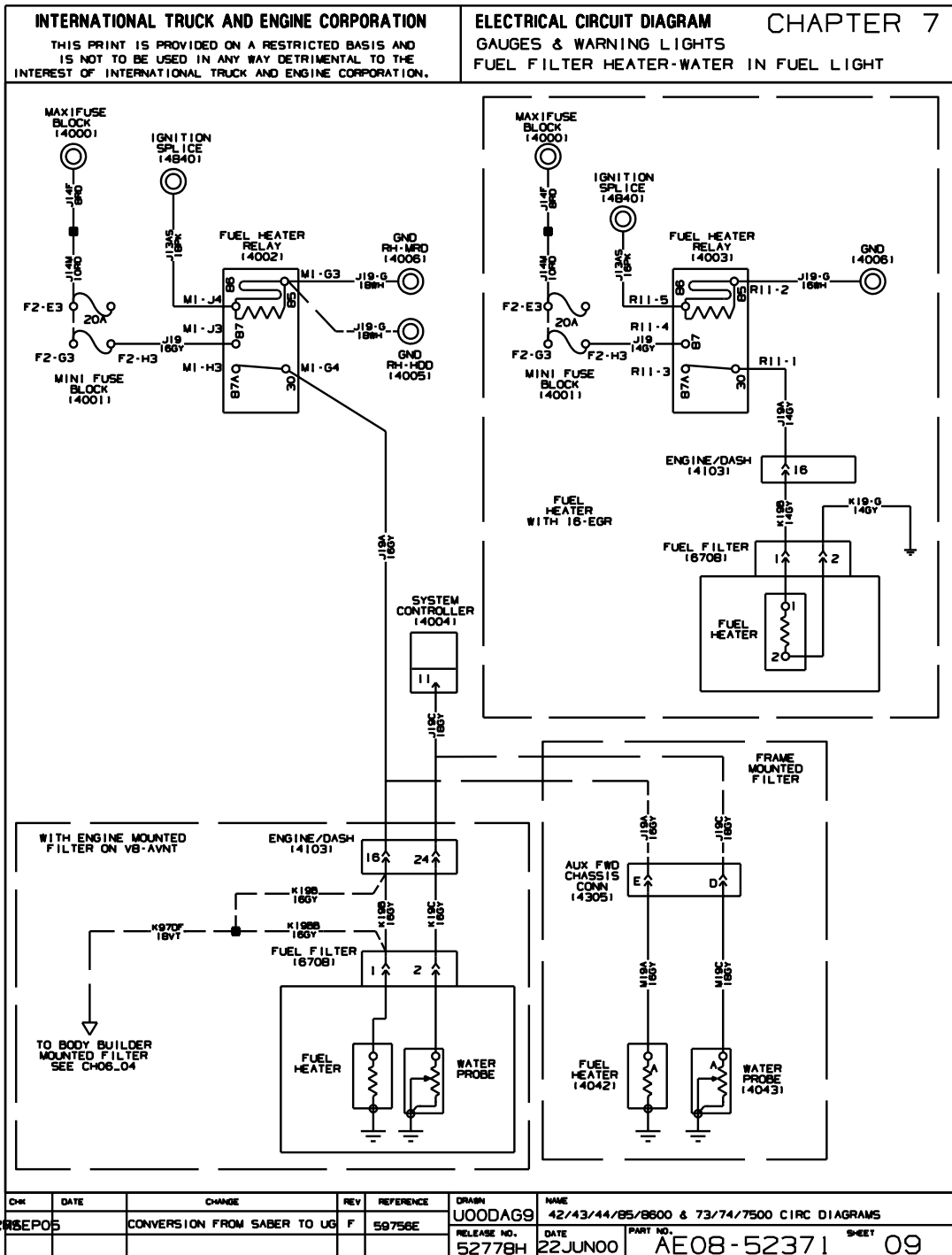


Figure 97 Gauges and Warning Lights — Fuel Filter Heater and Water in Fuel Lights

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

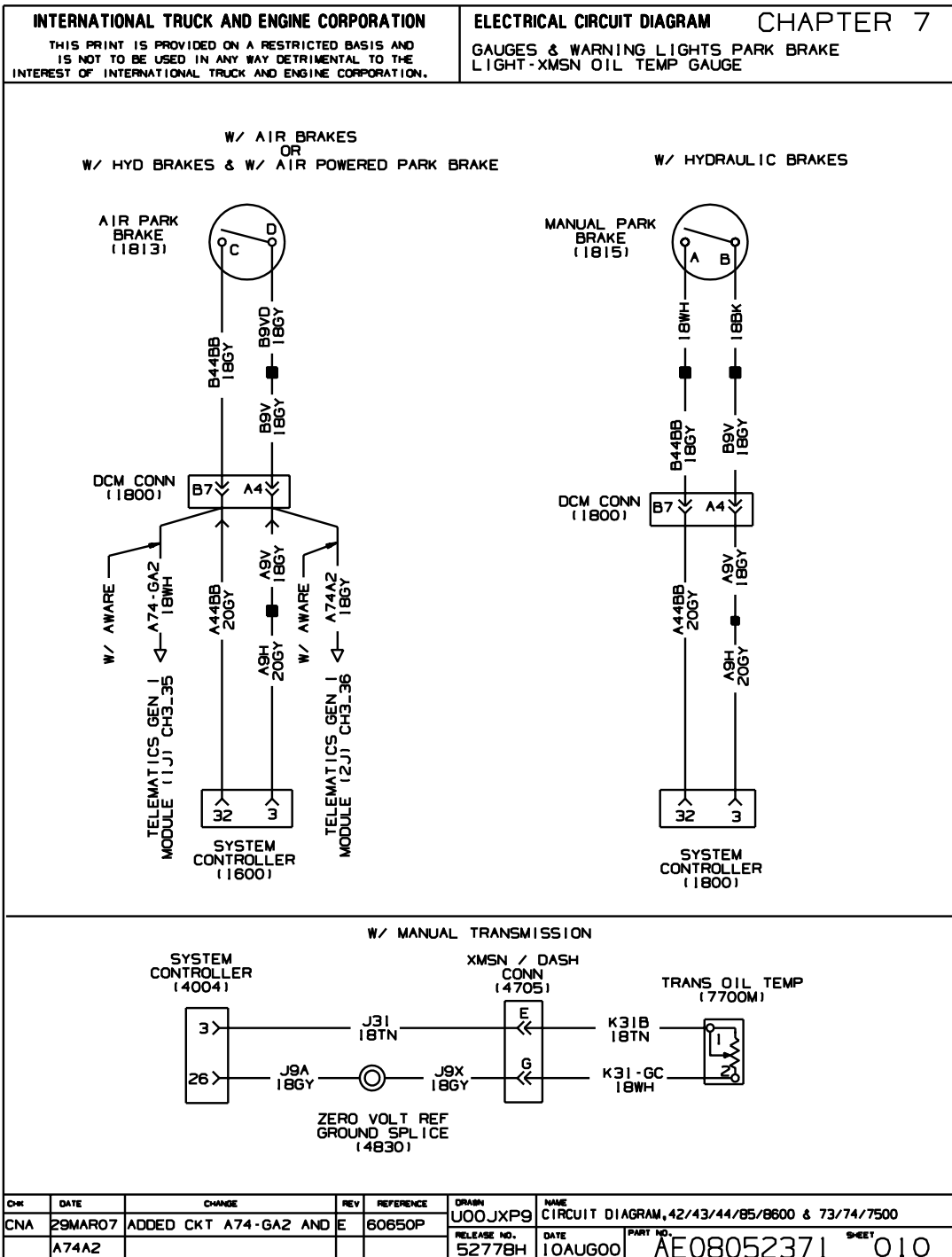


Figure 98 Gauges and Warning Lights — Park Brake Light and Transmission Oil Temp. Gauge

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

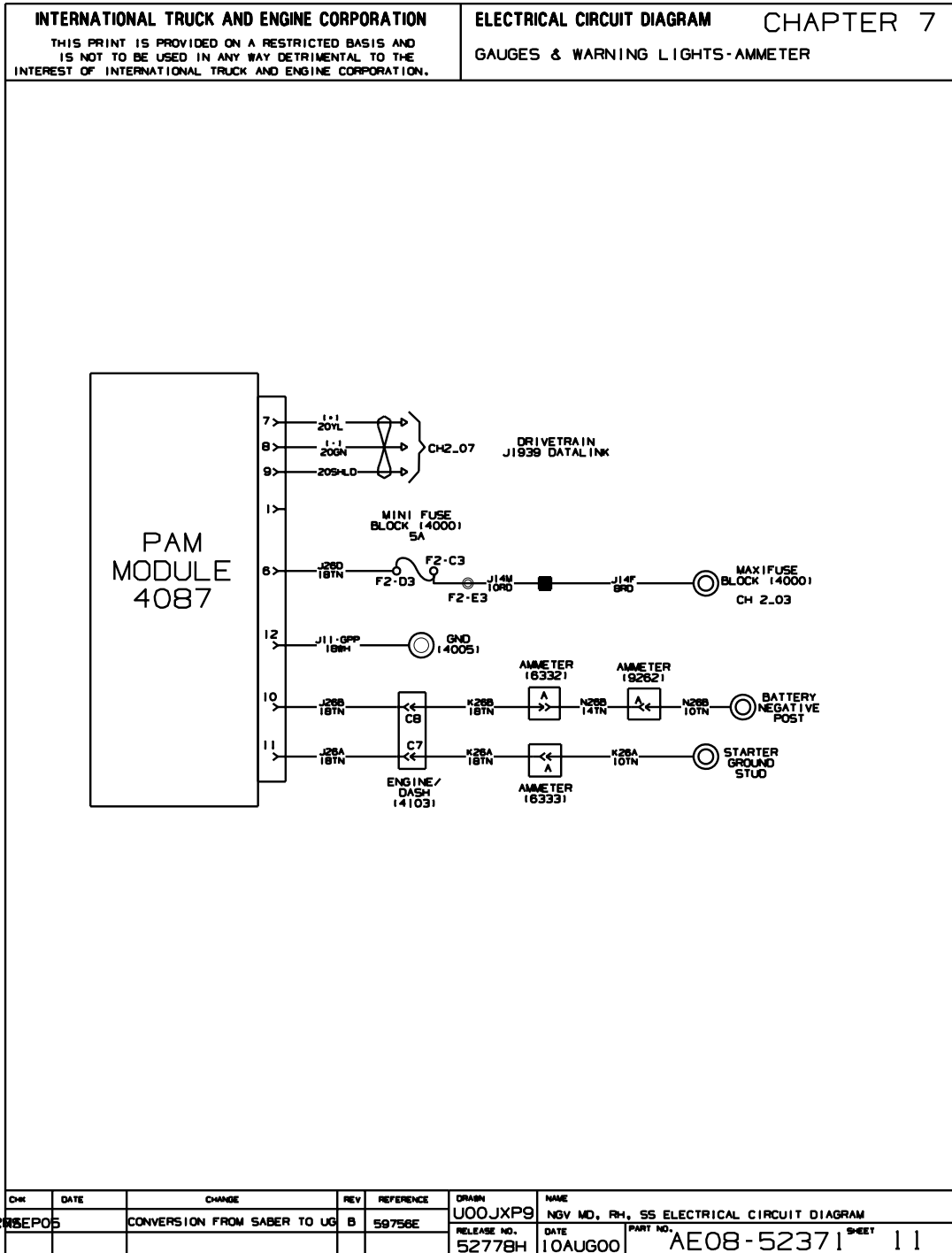
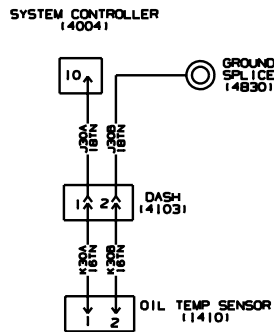


Figure 99 Gauges and Warning Lights — Ammeter

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

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---	--



CHR	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
2	09SEP05	CONVERSION FROM SABER TO UG	B	59756E	WOODLCK	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS
					RELEASE NO.	DATE
					52778H	07OCT02
						PART NO.
						AE08-52371
						SHEET
						12

Figure 100 Engine Oil Temperature Gauge With Caterpillar

**7.13. FRONT AXLE ENGAGEMENT WARNING LAMP, P. 13**

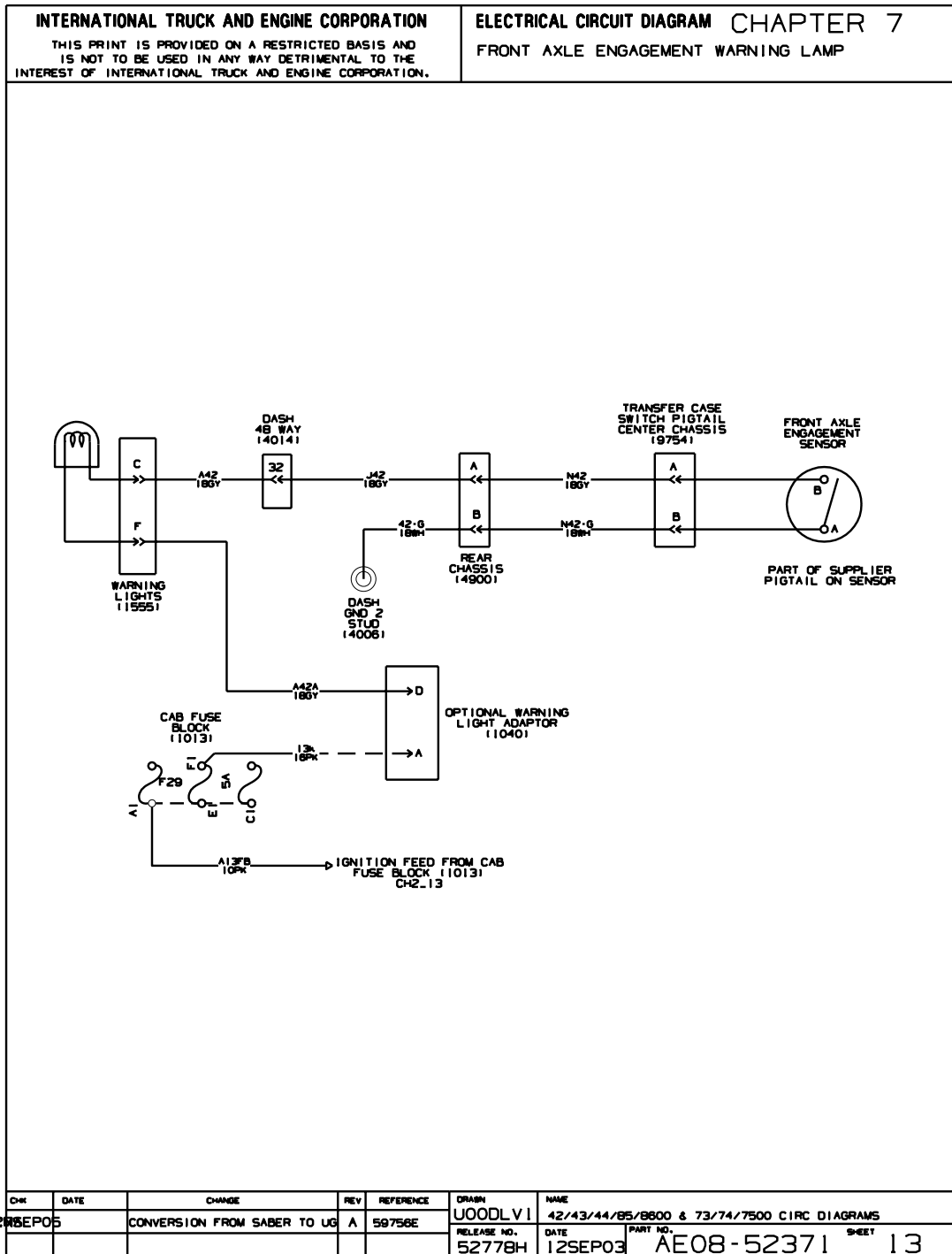


Figure 101 Front Axle Engagement Warning Lamp

## 8. LIGHTS (CHAPTER 8)

### 8.1. BACKUP LIGHTS, P. 1

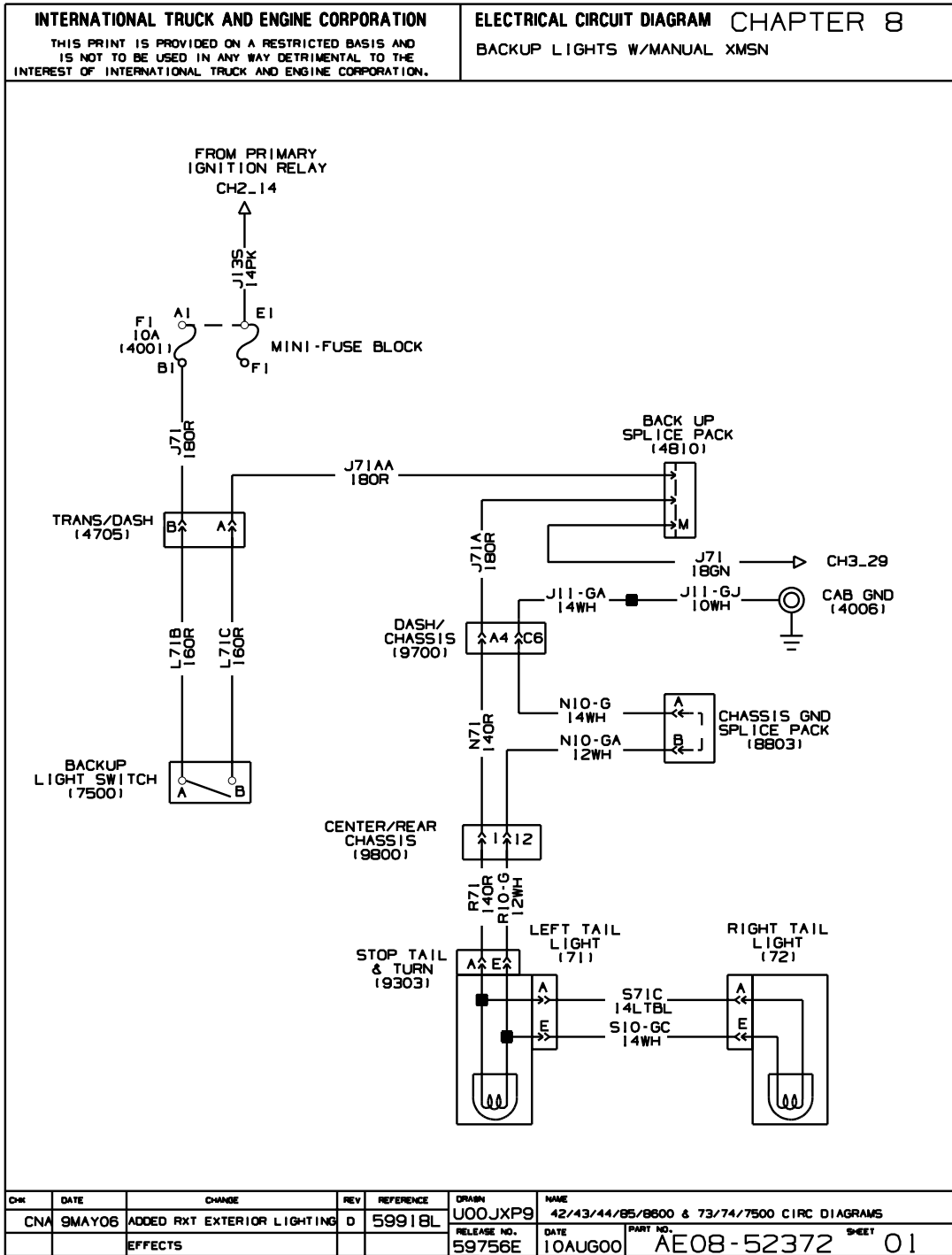


Figure 102 BackUp Lights



8.2. LIGHT SYSTEMS — CLEARANCE, MARKER, AND PARK, P. 2

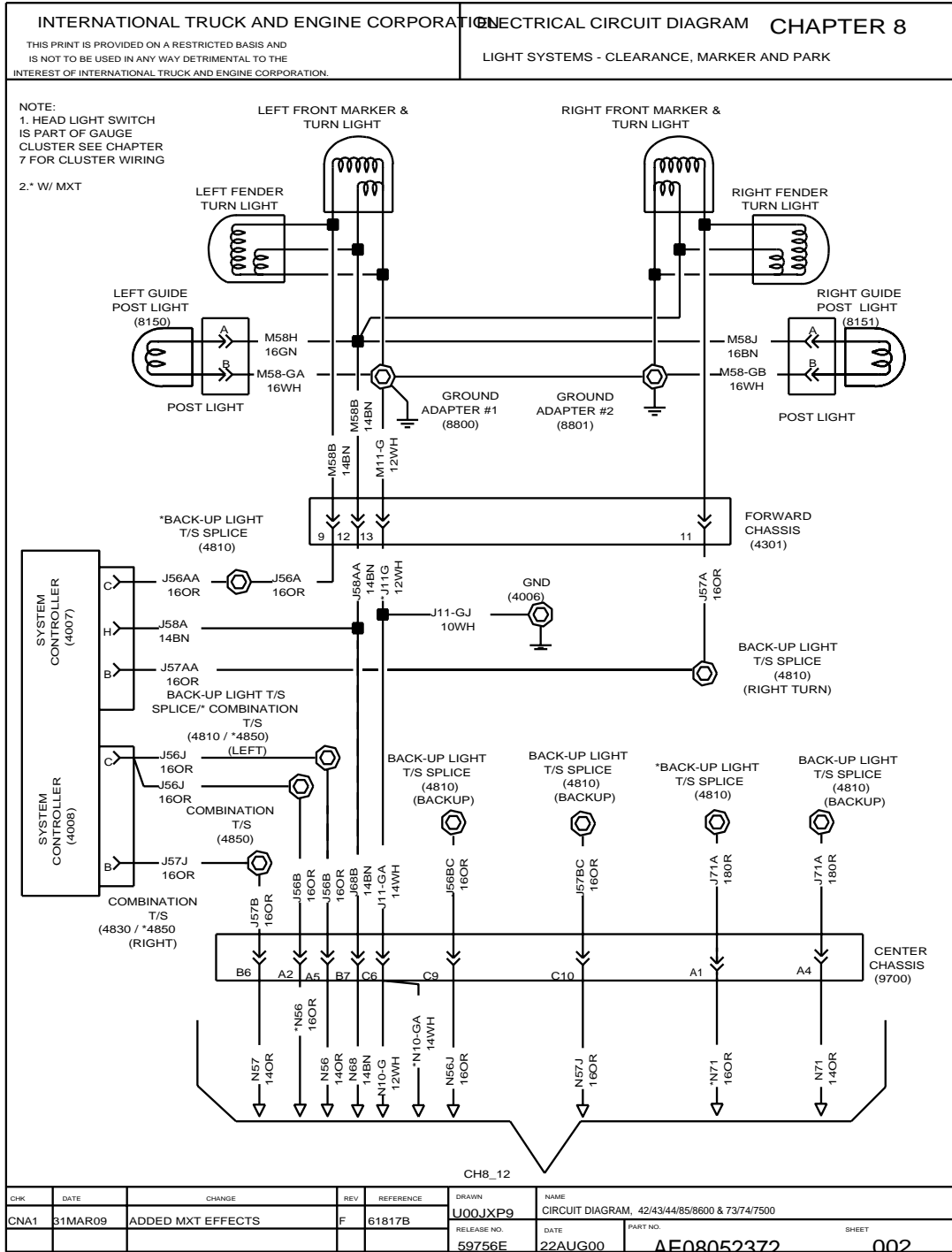


Figure 103 Light Systems — Clearance, Marker, and Park

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

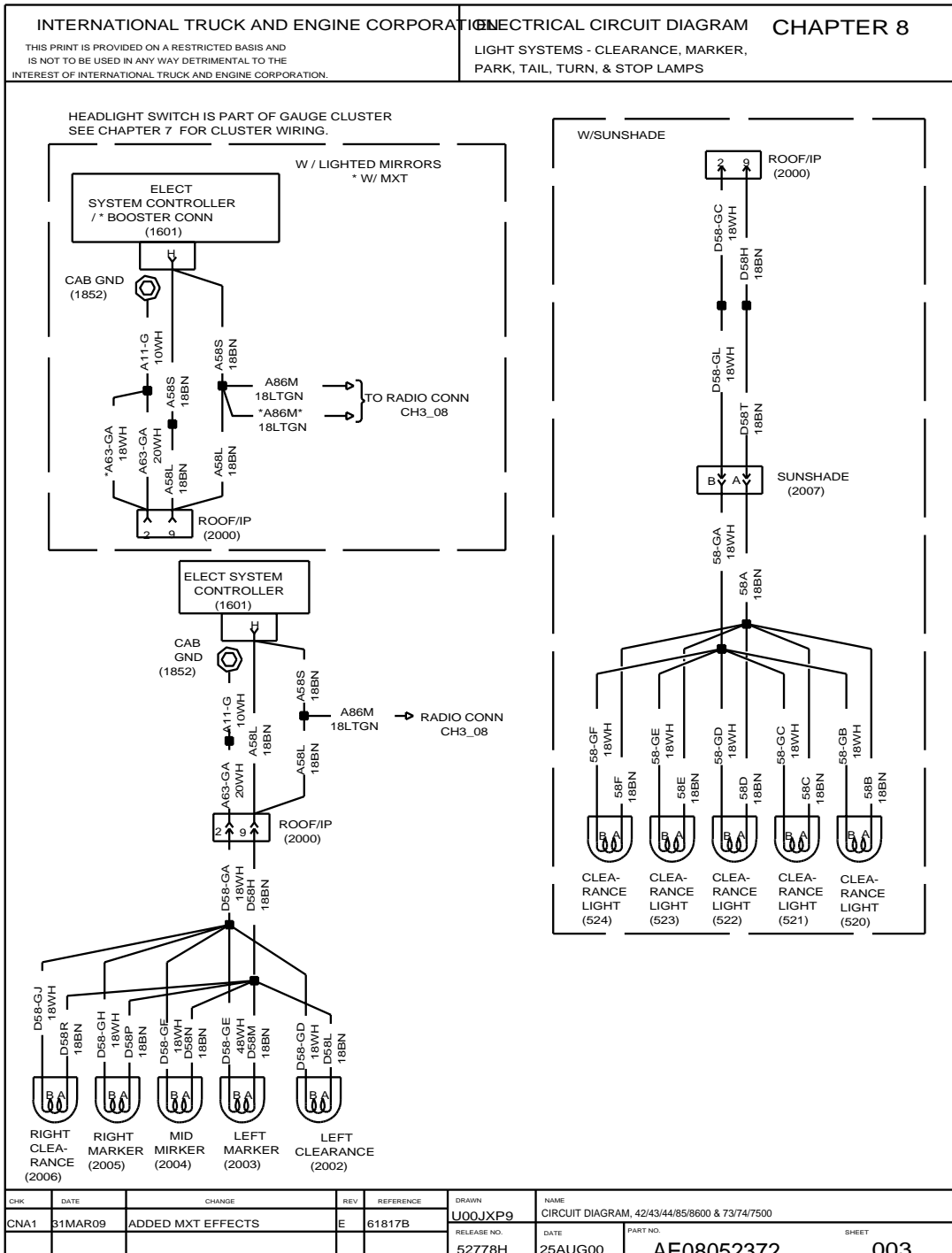


Figure 104 Light Systems — Clearance, Marker, Park, Tail, Turn and Stop Lamps

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

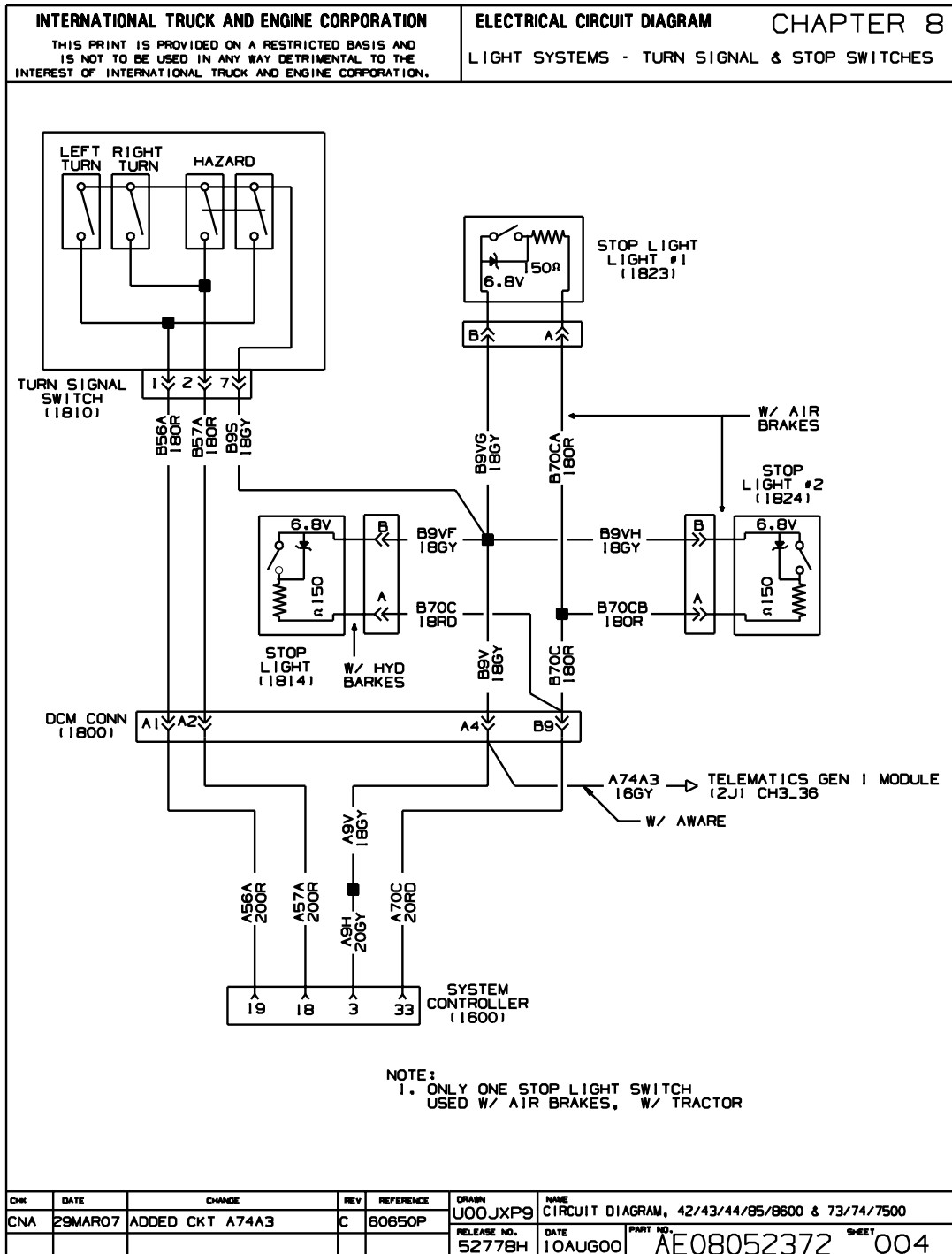


Figure 105 Light Systems — Turn Signal and Stop Switches

8.5. DOME LIGHT, MAP LIGHT, P. 5

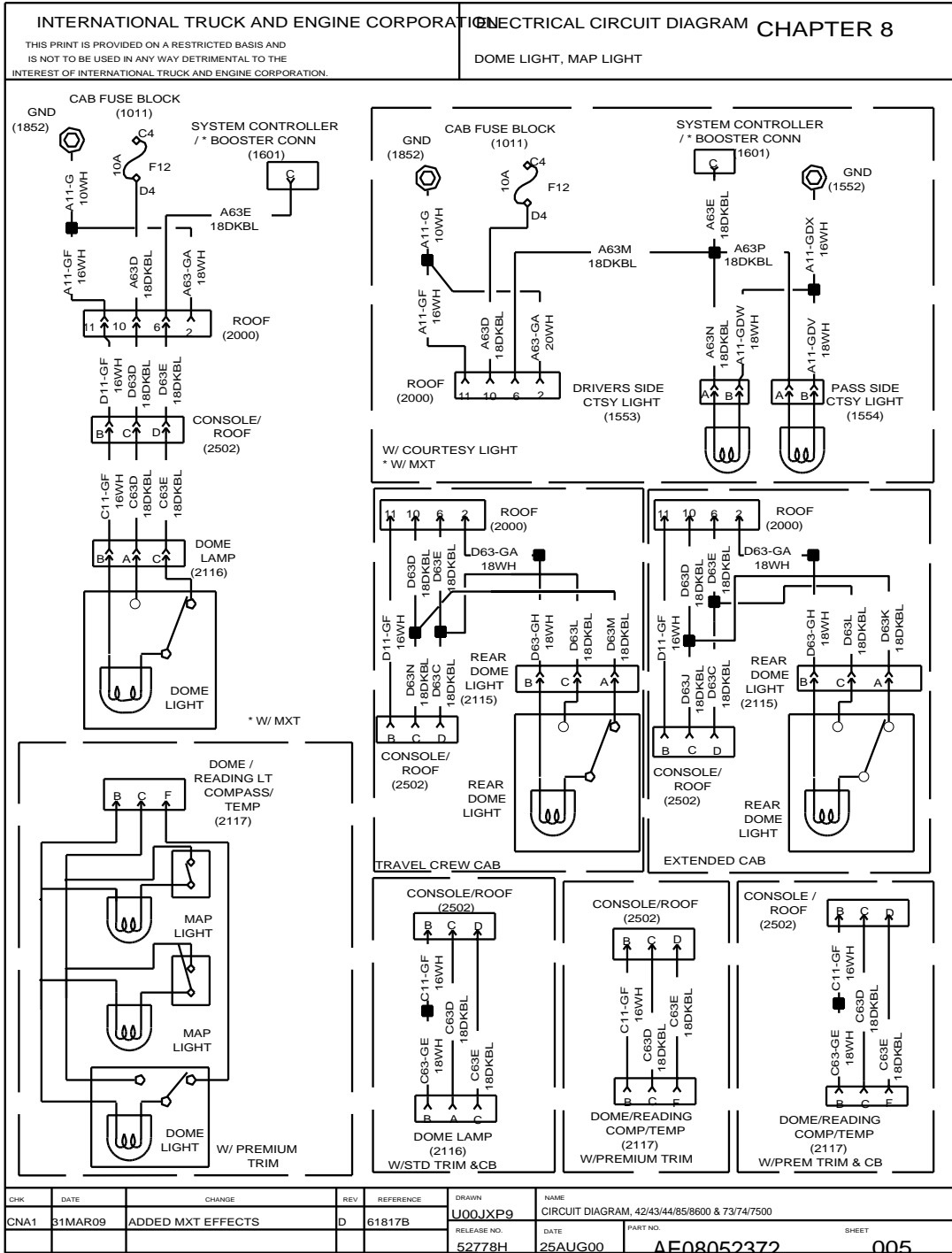


Figure 106 Dome Light, Map Light

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

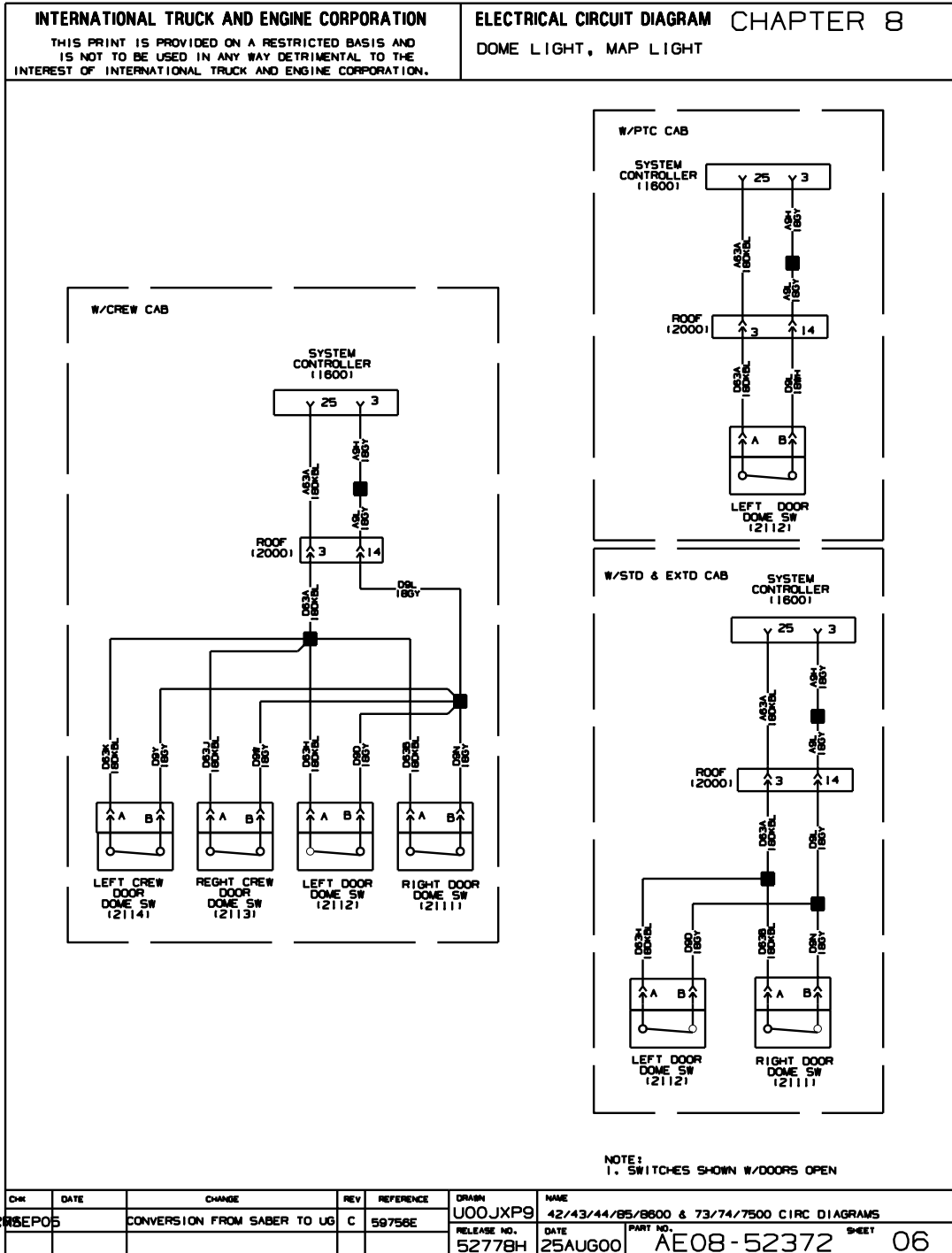


Figure 107 Dome Light, Map Light (Cont.)

8.7. FOG LIGHT AND WORK LIGHT, P. 7

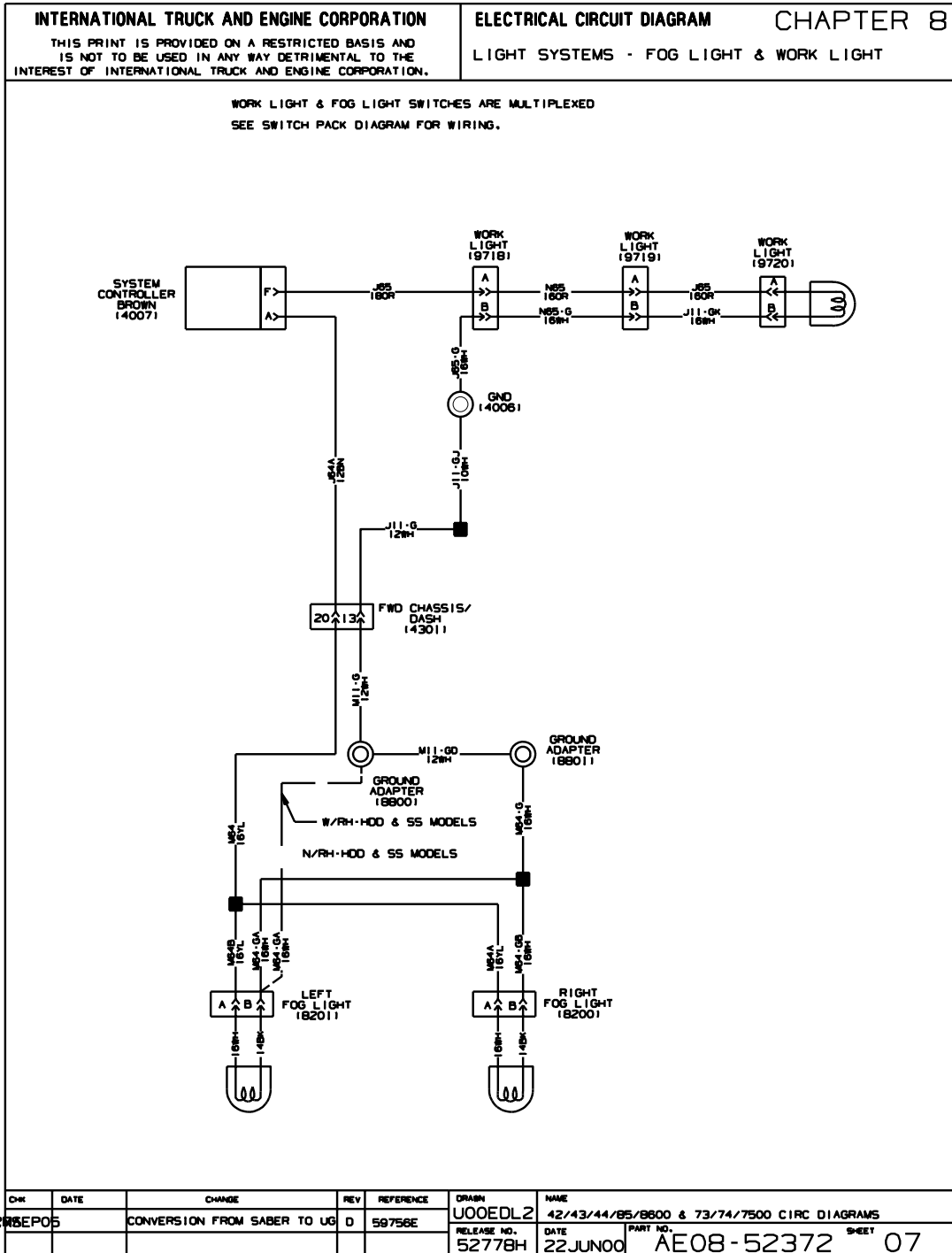


Figure 108 Fog Light and Work Light

8.8. HEADLIGHTS, P. 8

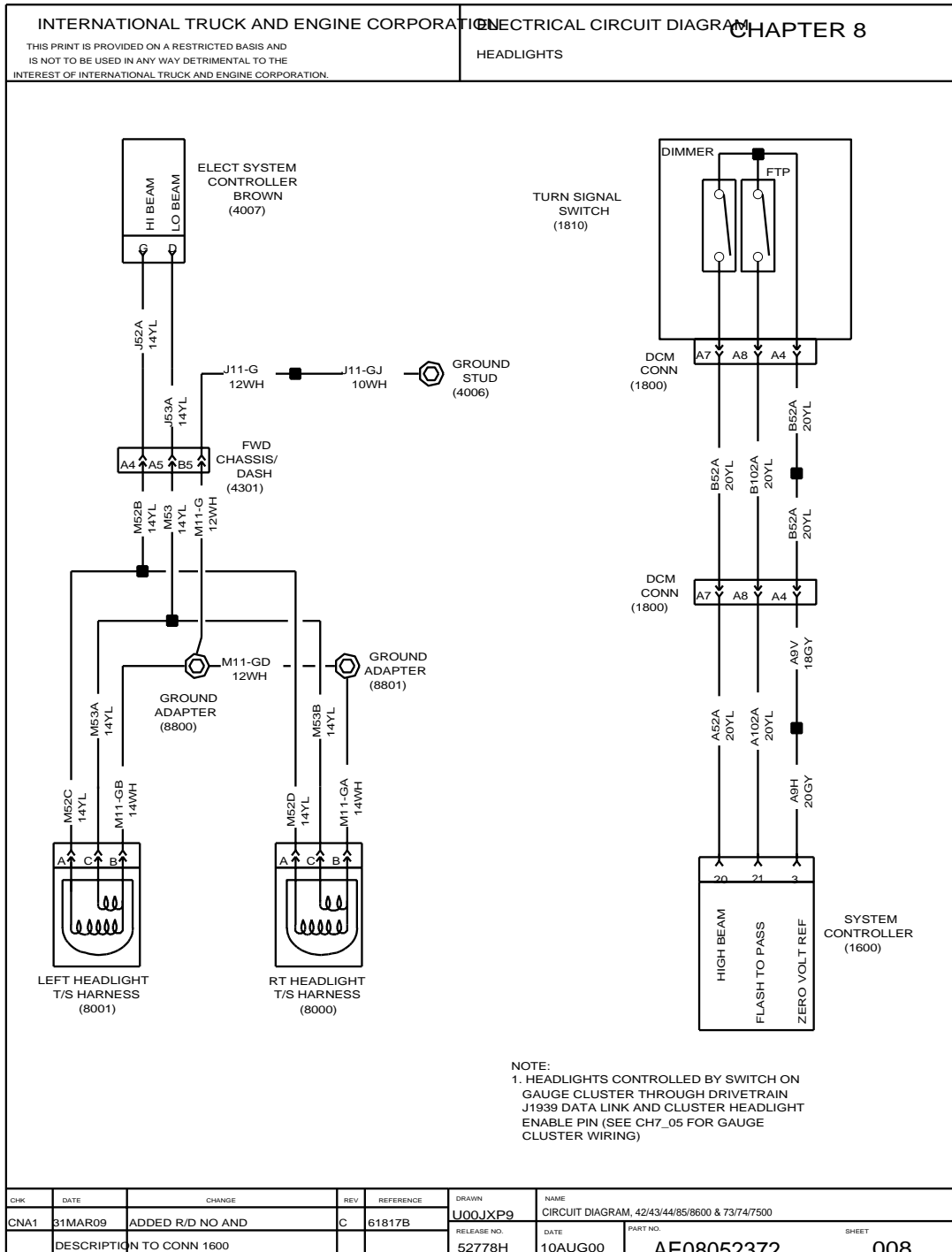


Figure 109 Headlights

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

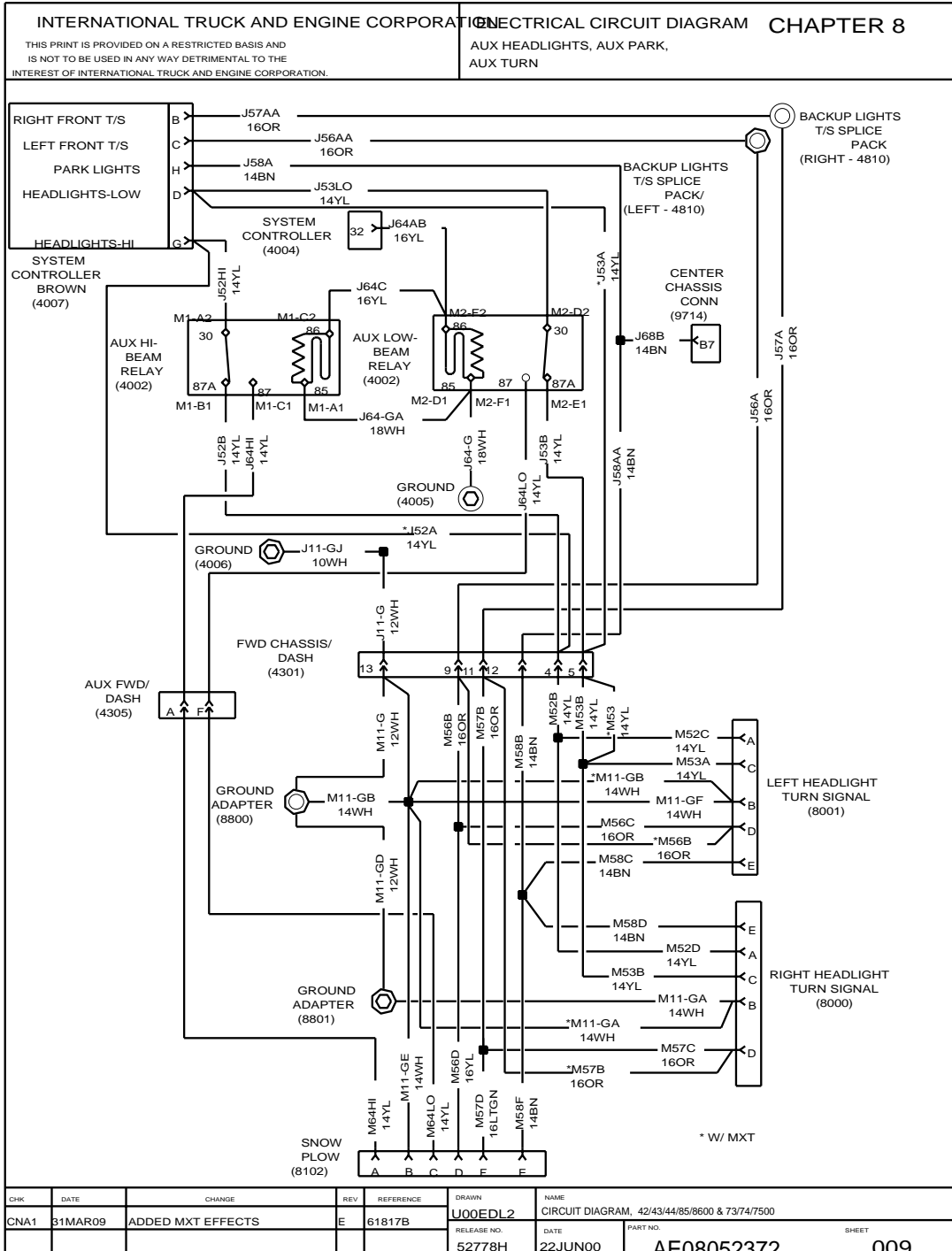


Figure 110 Aux. Headlights, Aux. Park, Aux Turn



8.10. PANEL LIGHTS, P. 10

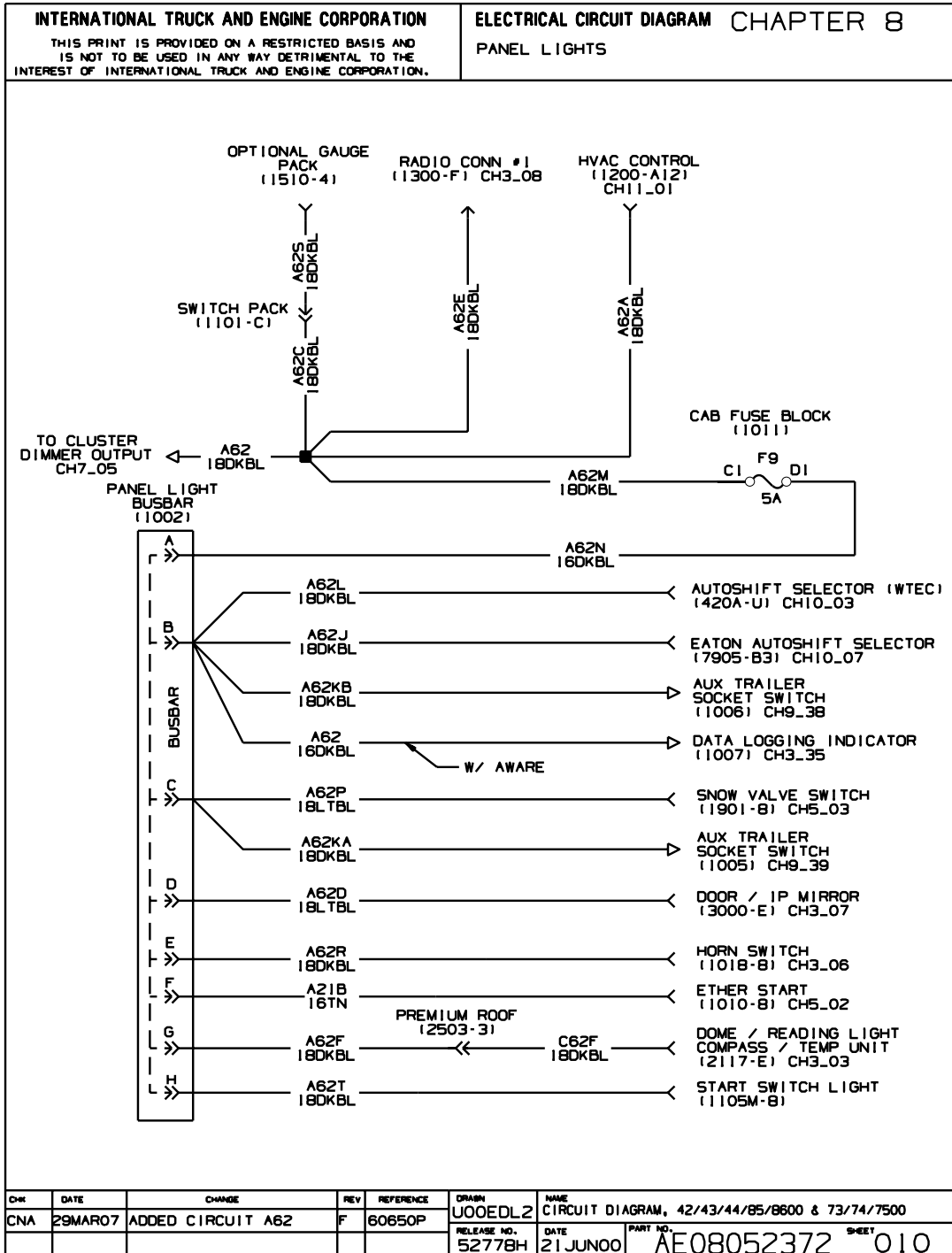


Figure 111 Panel Lights

8.11. RXT EXTERIOR LIGHTING, P. 11

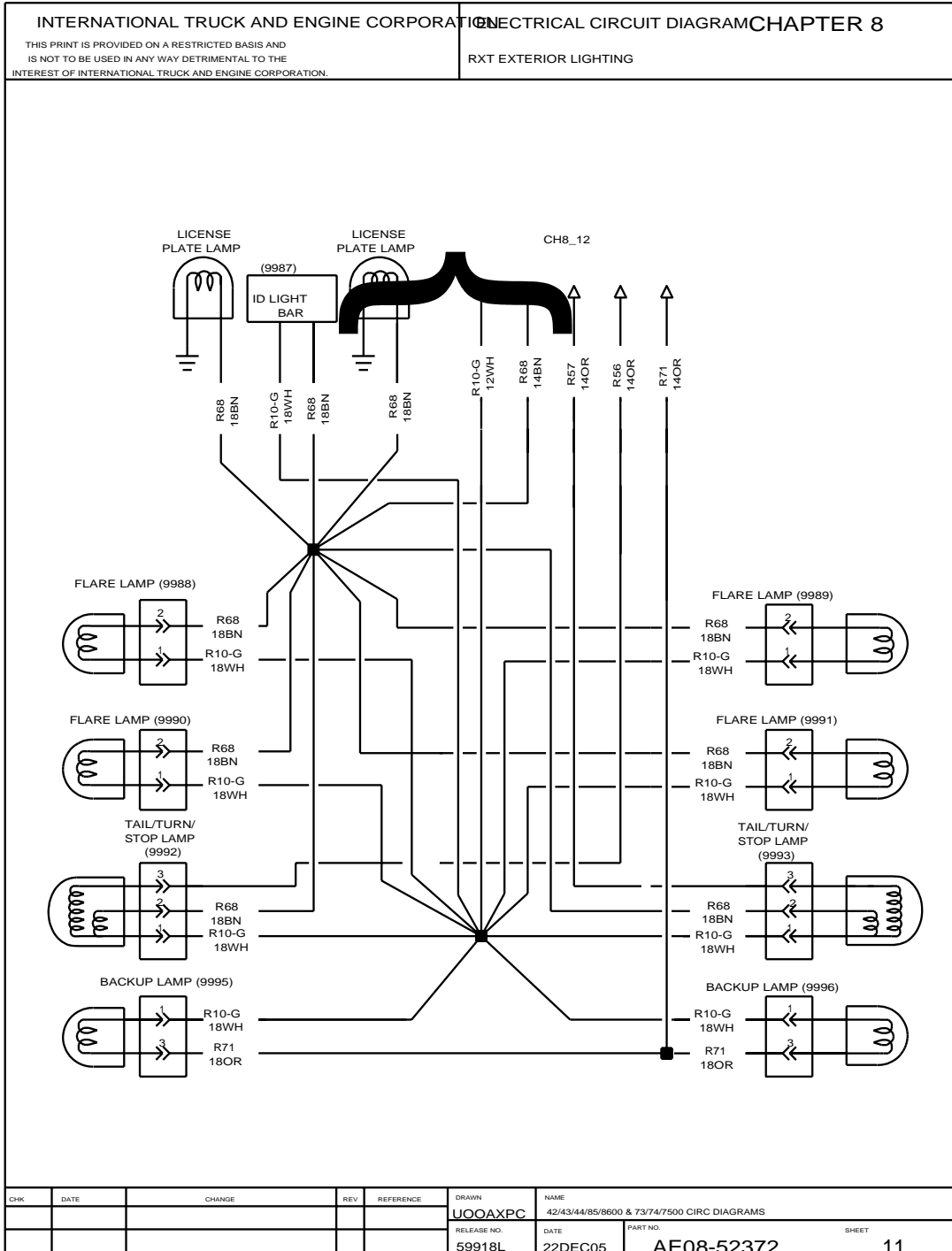


Figure 112 RXT Exterior Lighting

8.12. TAIL, TURN, AND STOP LAMPS, P. 12

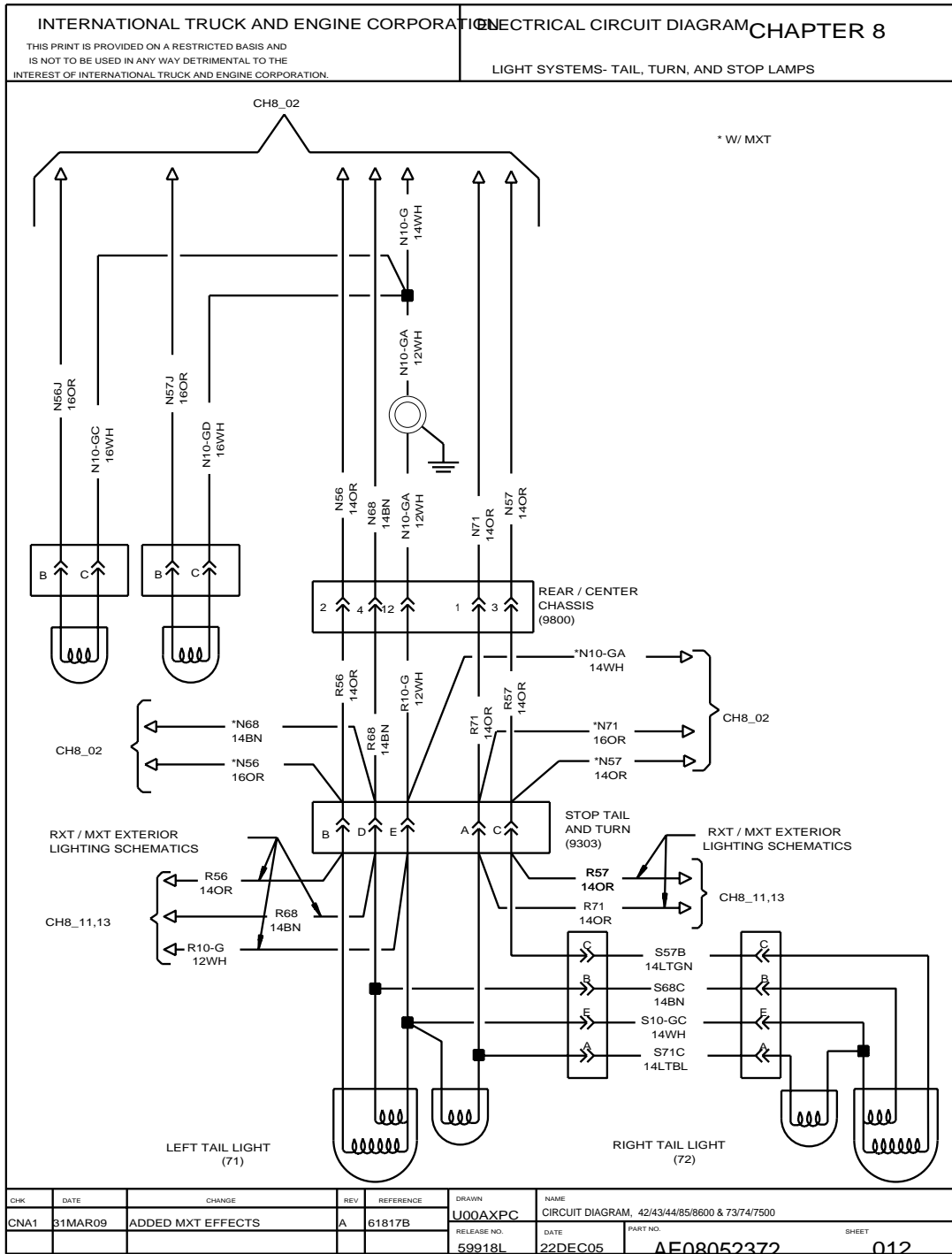


Figure 113 Tail, Turn, and Stop Lamps

8.13. MXT — EXTERIOR LIGHTING, P. 13

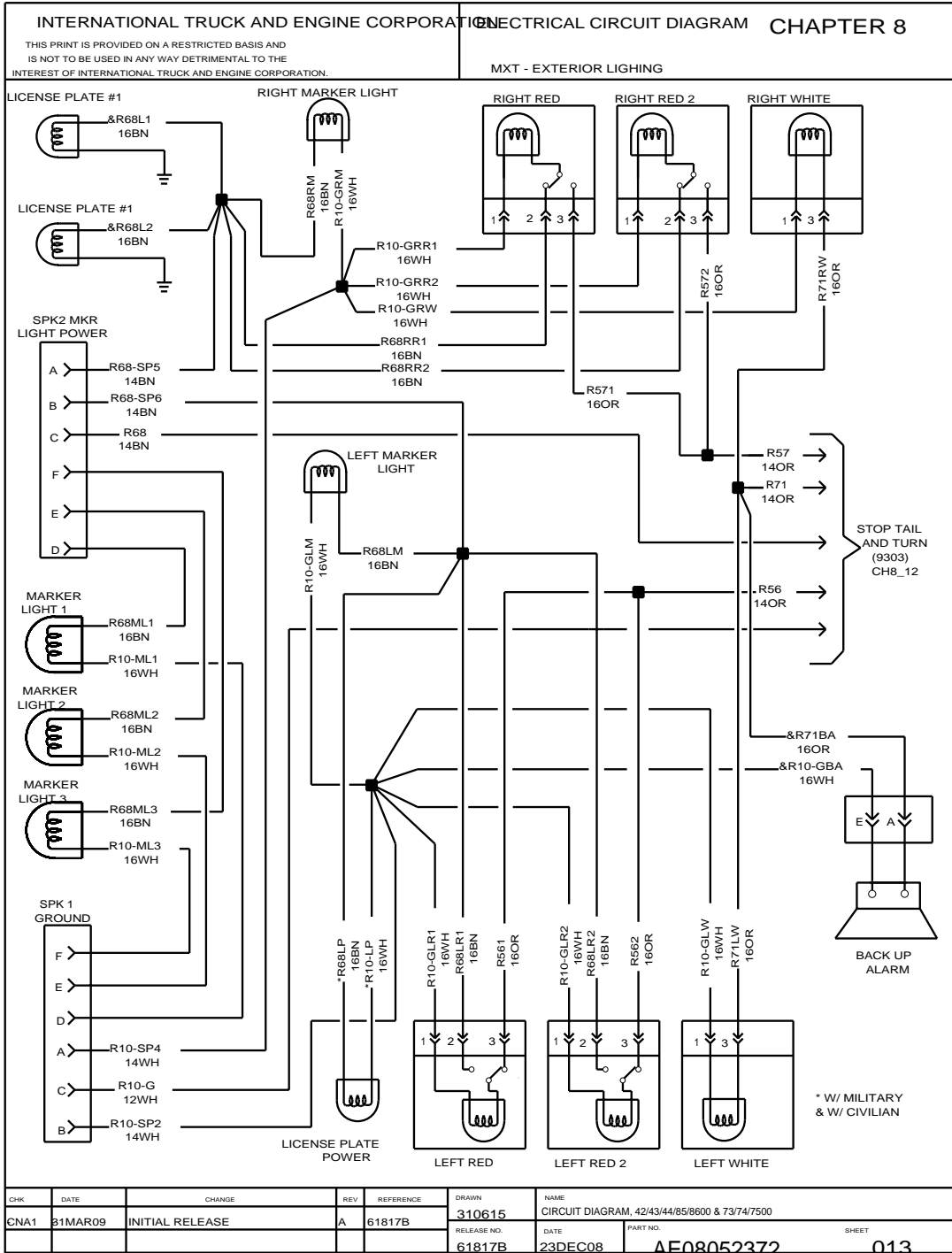


Figure 114 MXT — Exterior Lighting

## 9. CHASSIS ACCESSORIES (CHAPTER 9)

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

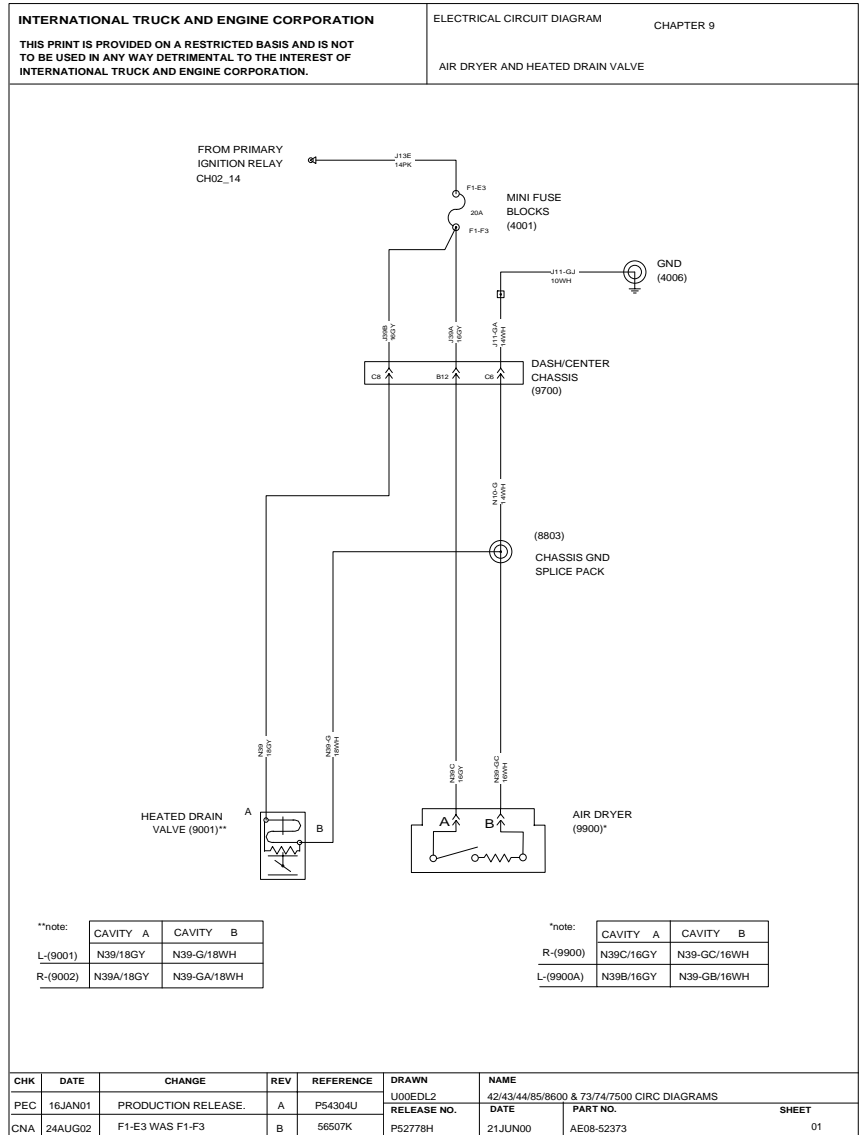


Figure 115 Air Dryer and Heated Drain Valve

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

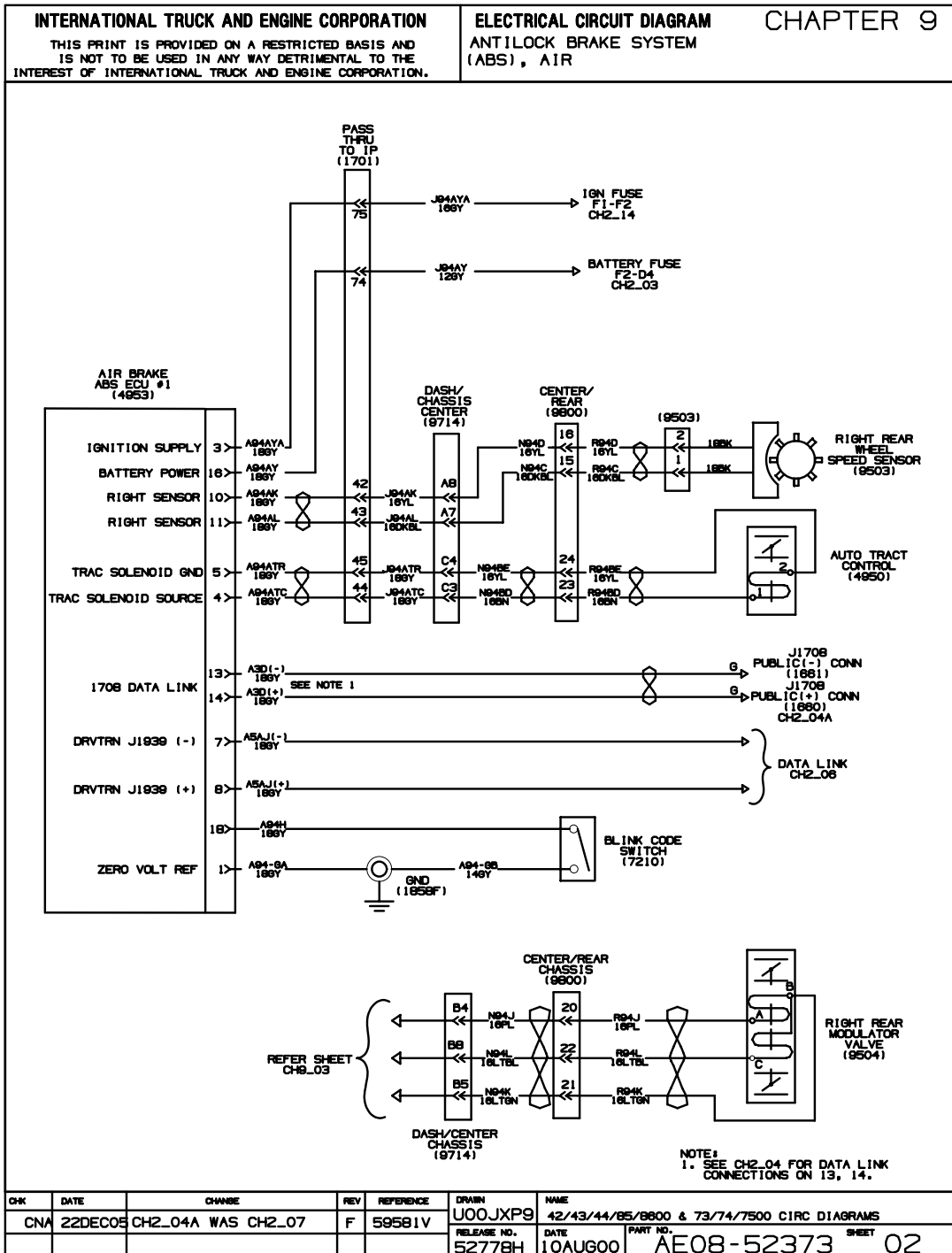


Figure 116 Antilock Brake System (ABS), Air

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

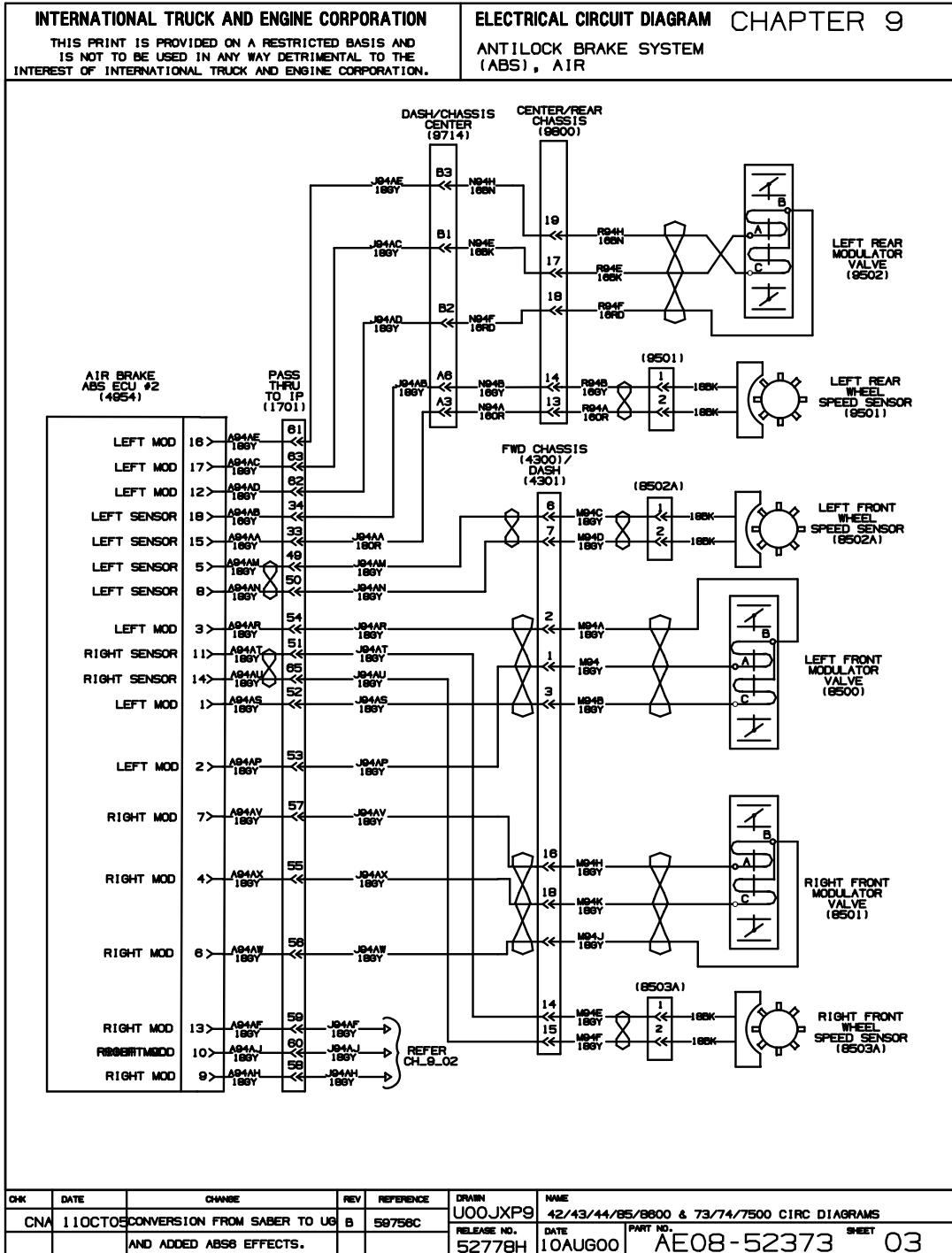


Figure 117 Antilock Brake System (ABS), Air, Traction Control

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

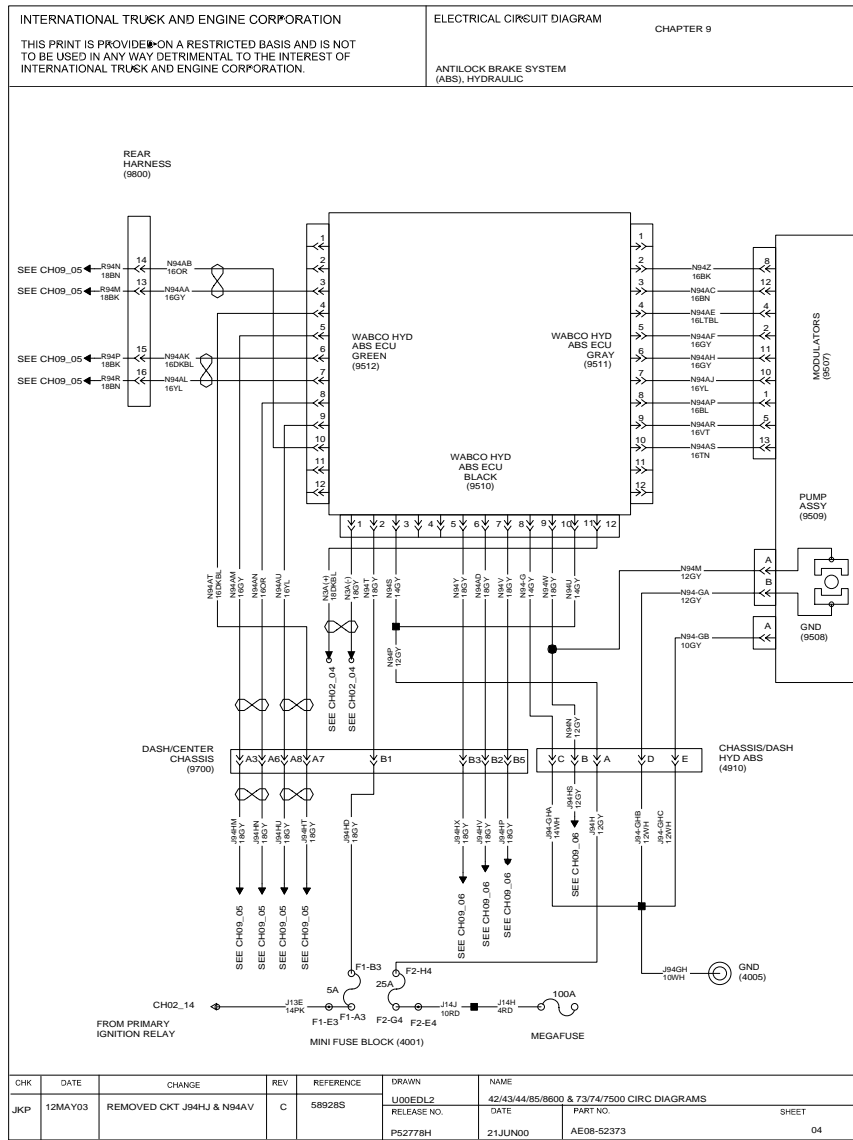


Figure 118 Antilock Brake System (ABS), Hydraulic



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

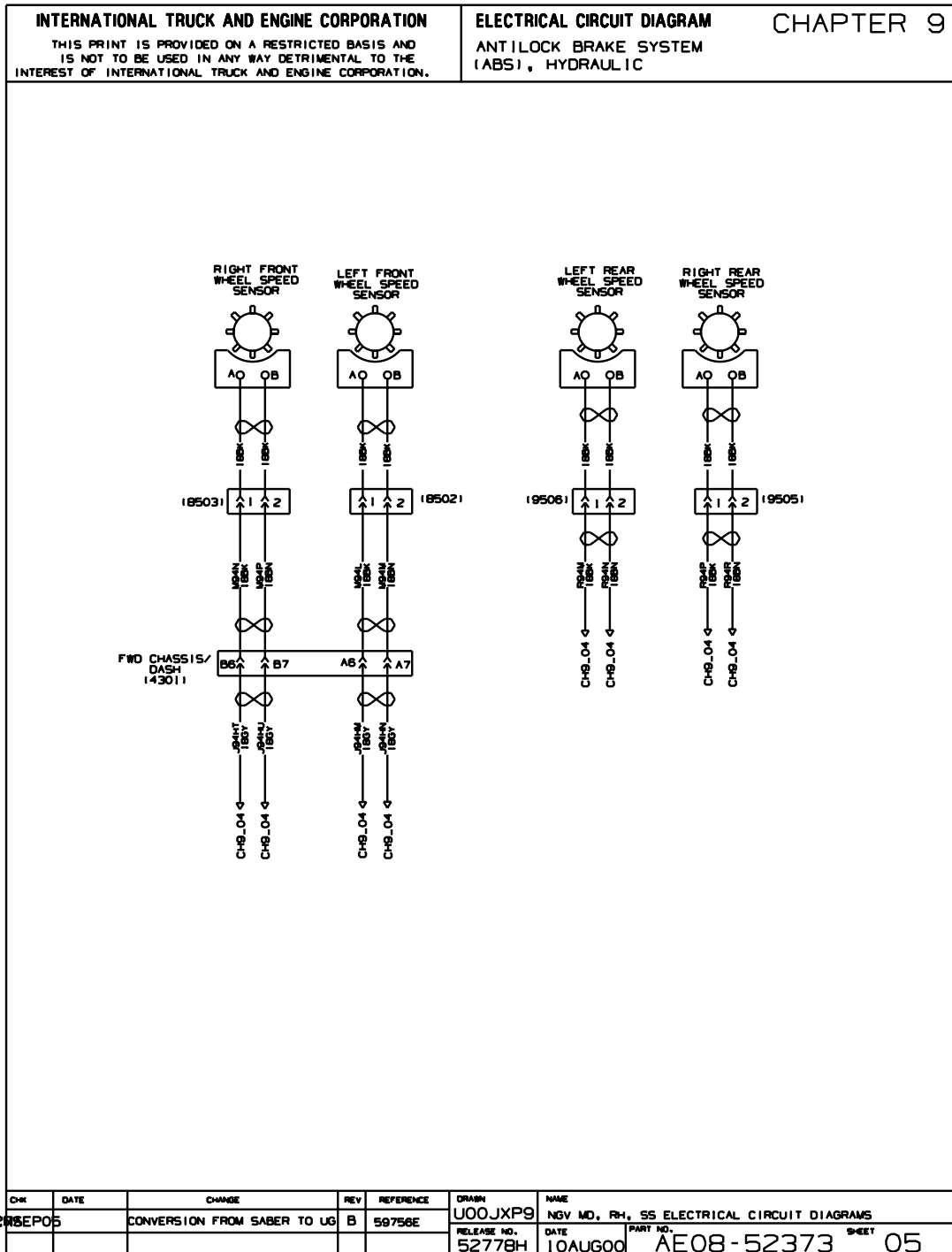


Figure 119 Antilock Brake System (ABS), Hydraulic (Cont.)

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

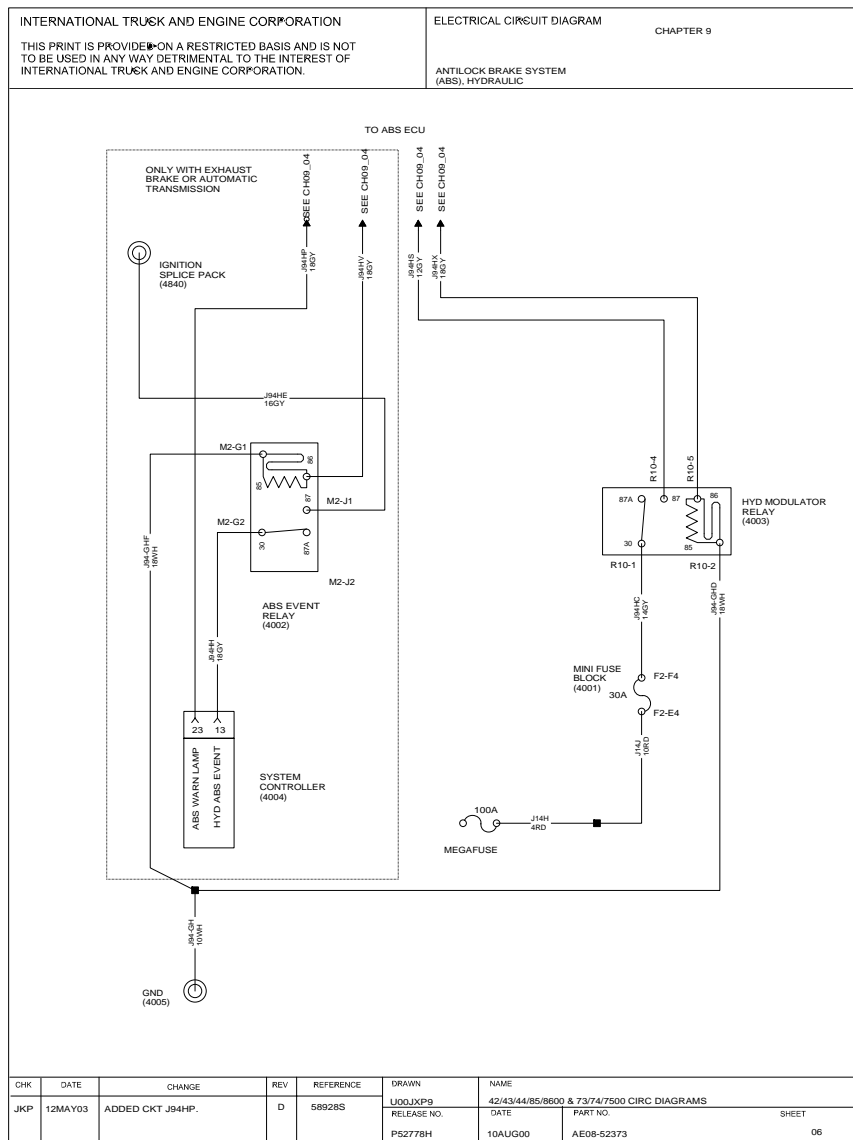
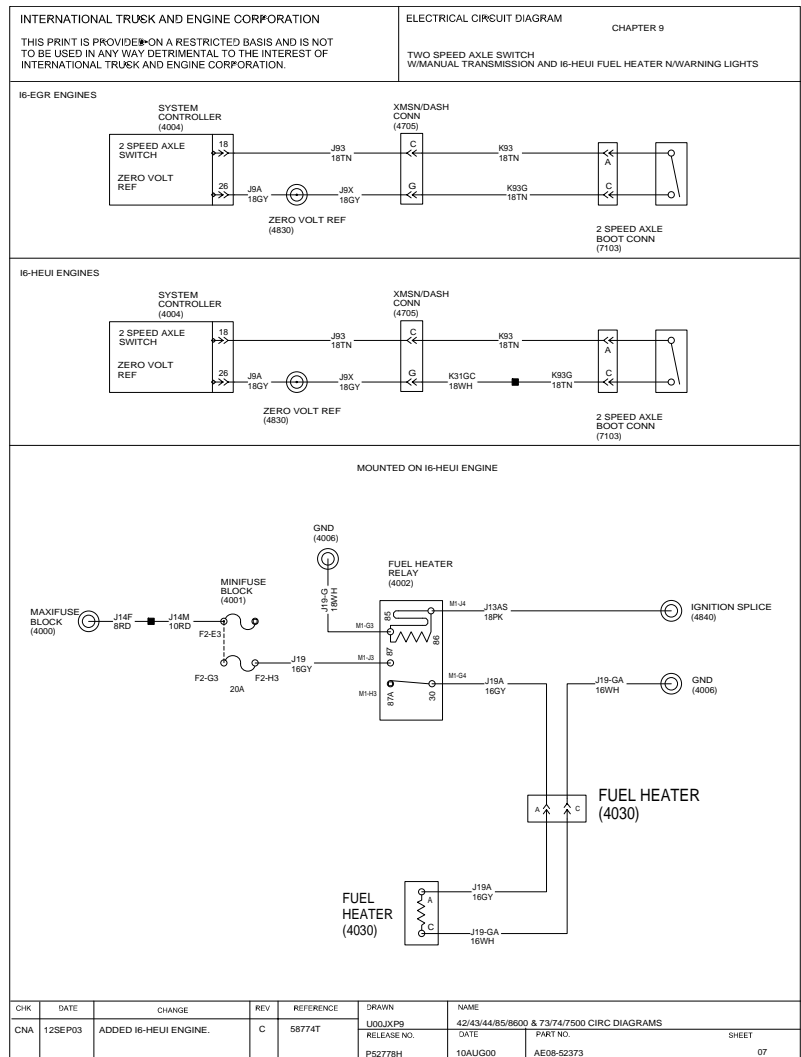


Figure 120 Antilock Brake System (ABS), Hydraulic (Cont.)

**9.7. TWO SPEED AXLE SWITCH WITH MANUAL TRANSMISSION AND I6 HEUI FUEL HEATER N/WARN LIGHTS, P. 7**



**Figure 121 Two Speed Axle Switch With Manual Transmission and I6 HEUI Fuel Heater N/Warn Lights**

9.8. BRAKE SYSTEM, HYDRAULIC, P. 8

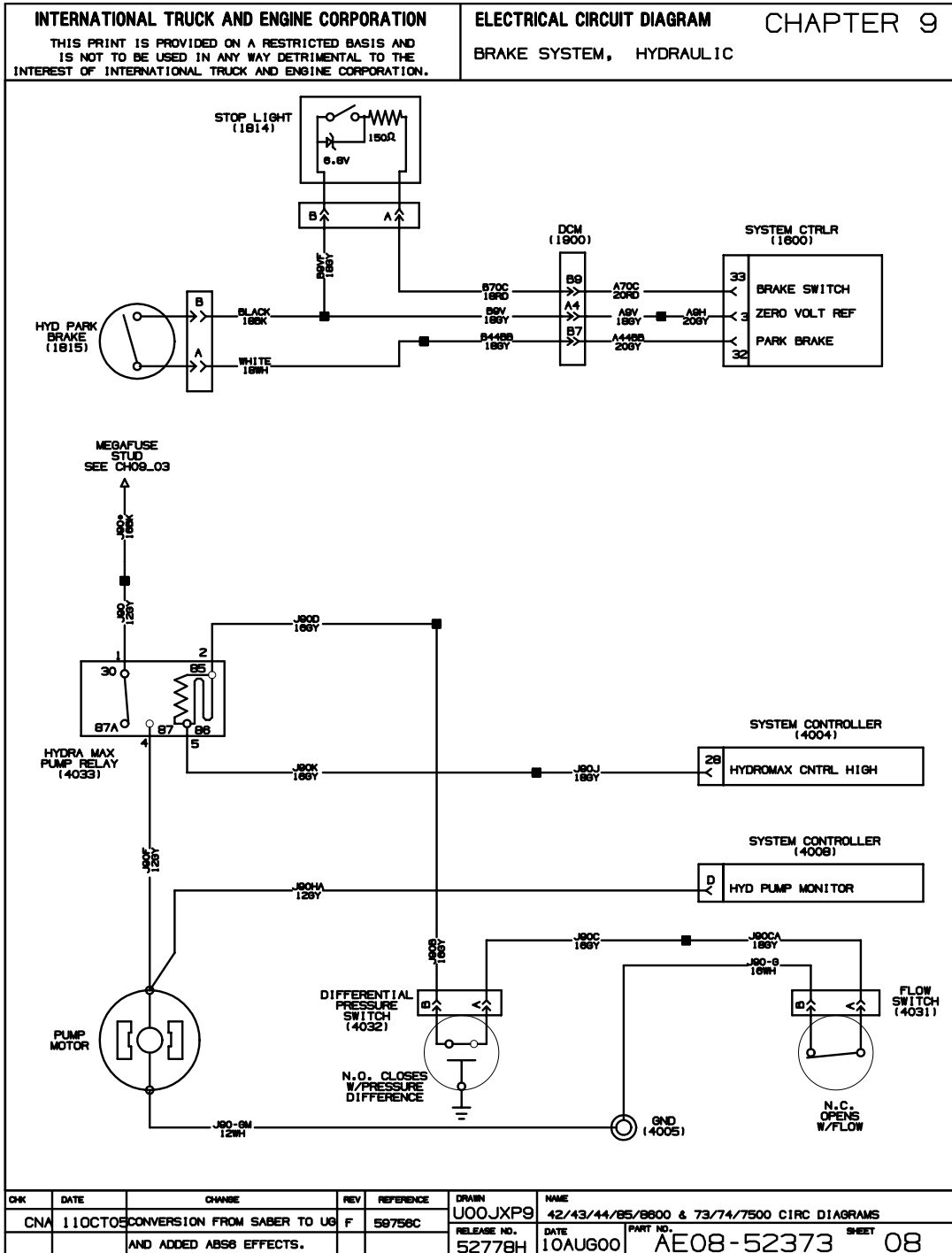


Figure 122 Brake System, Hydraulic

9.9. FUEL TRANSFER PUMP, P. 9

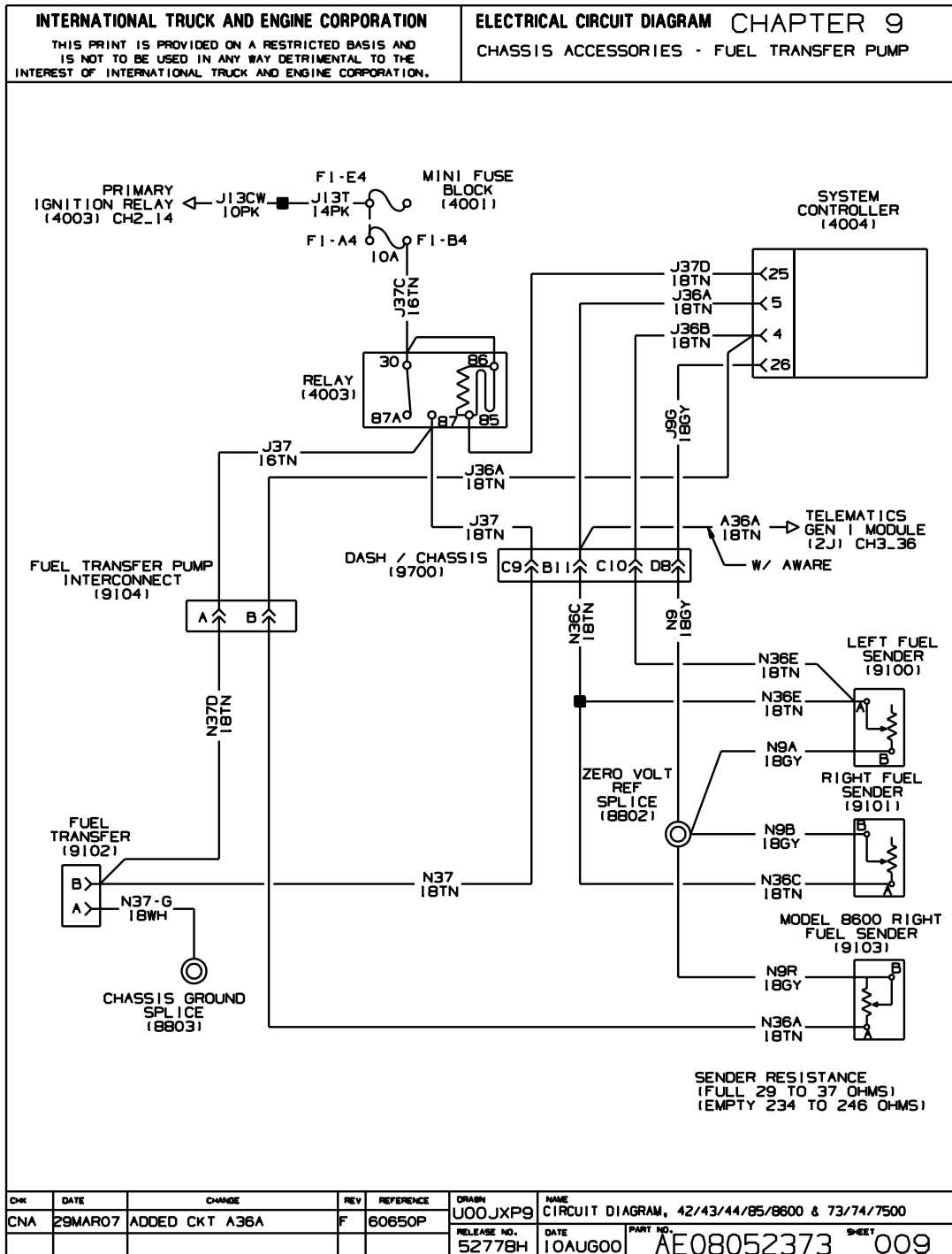


Figure 123 Fuel Transfer Pump

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

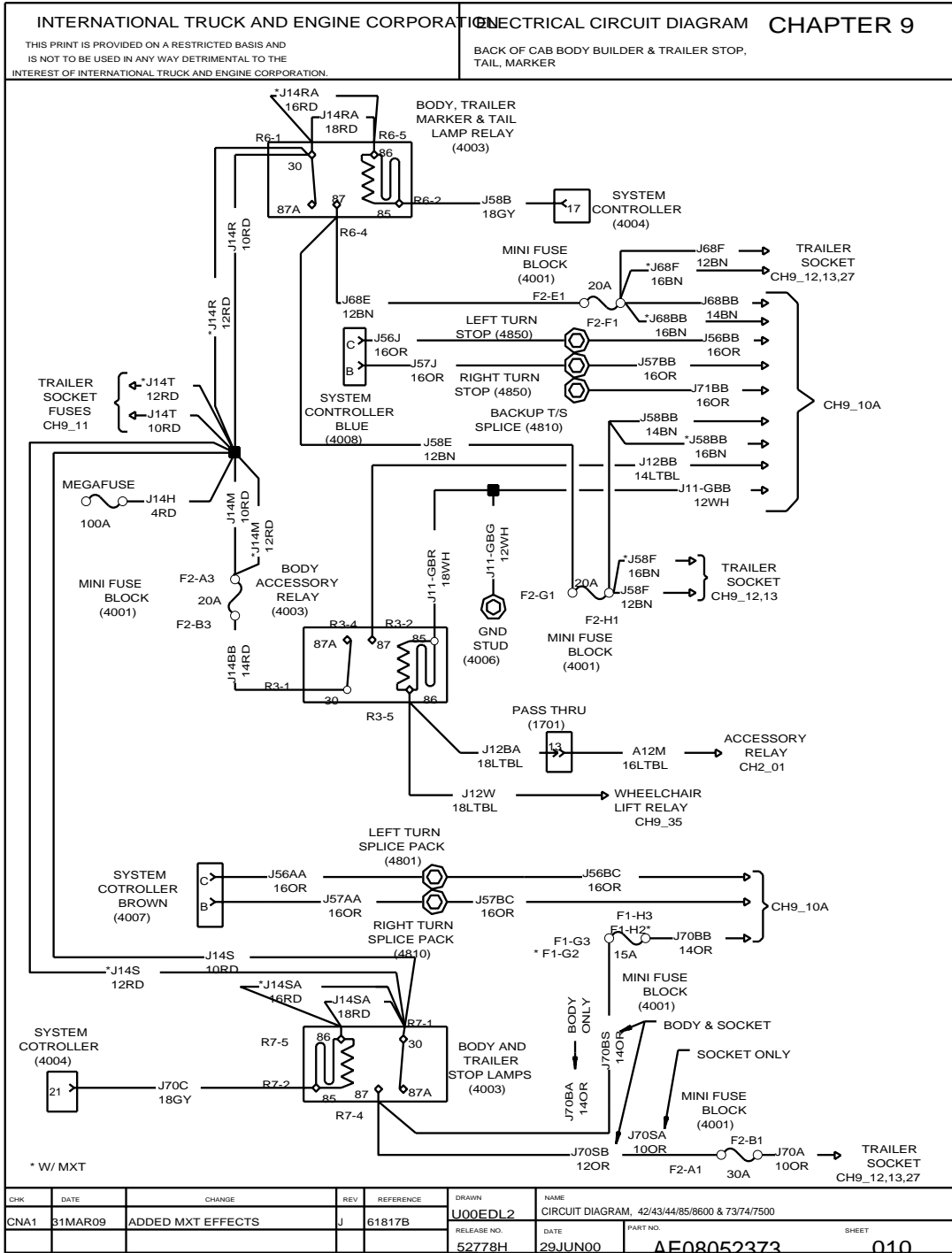


Figure 124 Back of Cab Body Builder and Trailer Stop, Tail, Marker

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

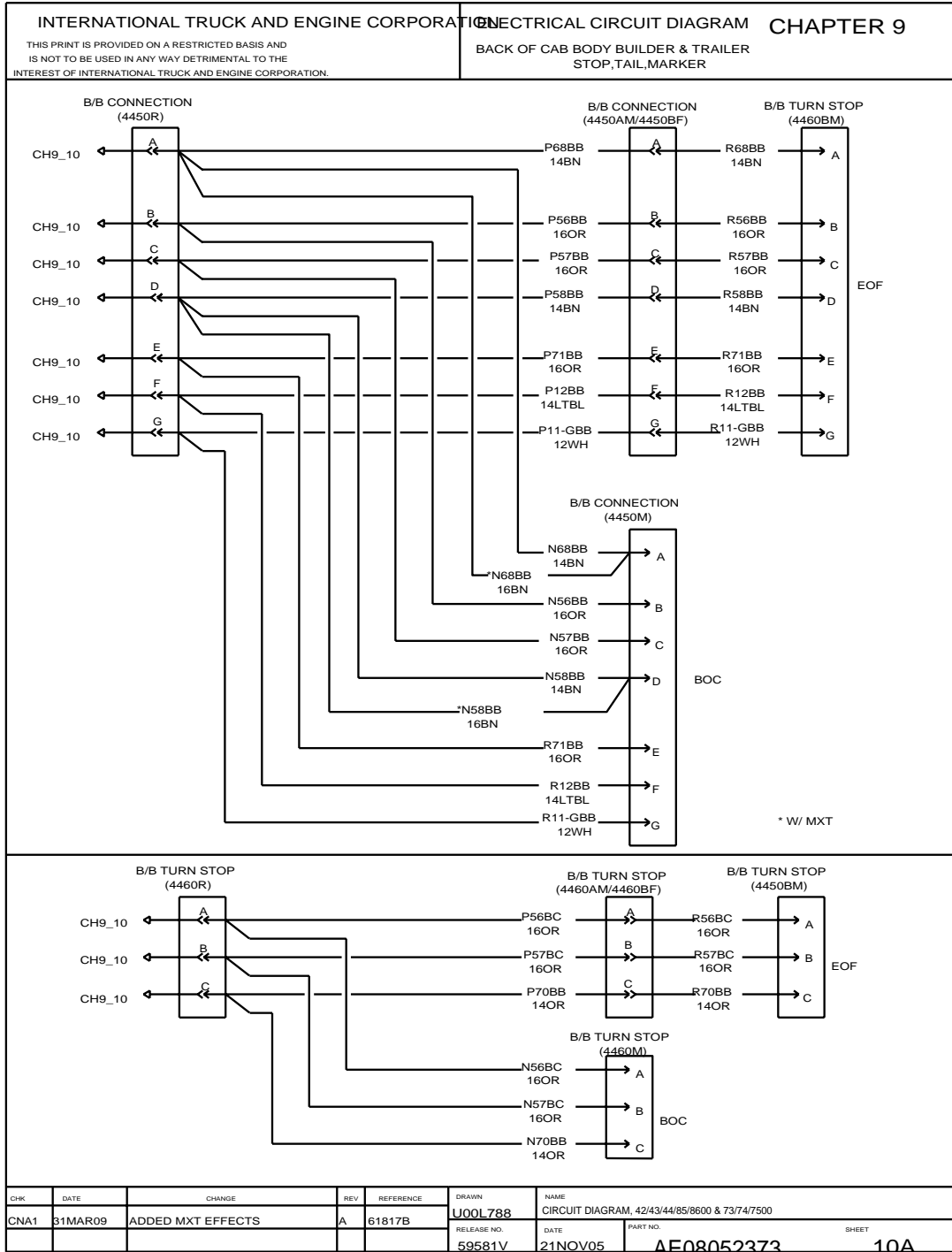


Figure 125 Back of Cab Body Builder and Trailer Stop, Tail, Marker

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

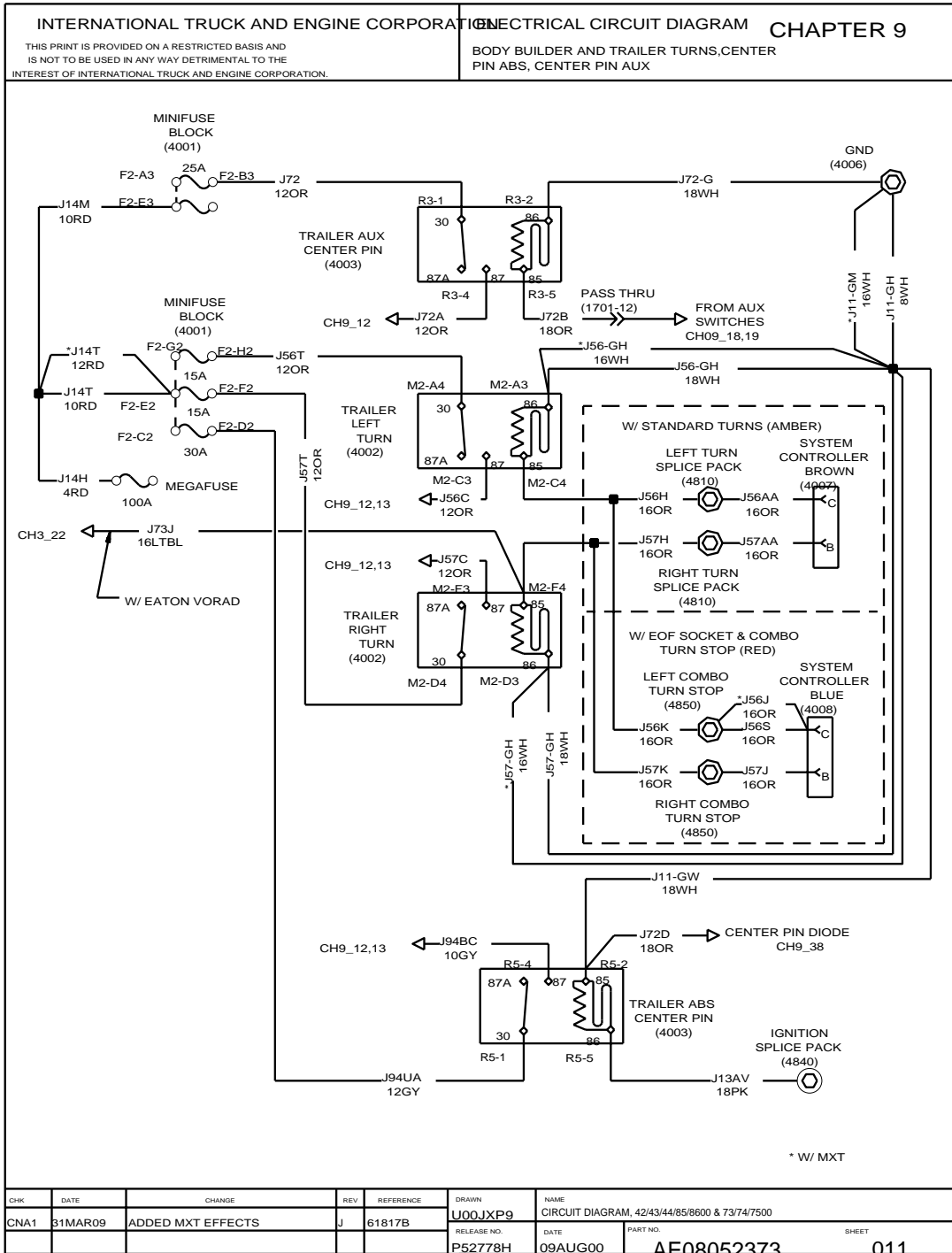


Figure 126 Body Builder and Trailer Turns, Center Pin ABS, Center Pin Aux



9.13. BODY BUILDER AND 7-WAY TRAILER SOCKET BACK OF CAB SOCKET, P. 12

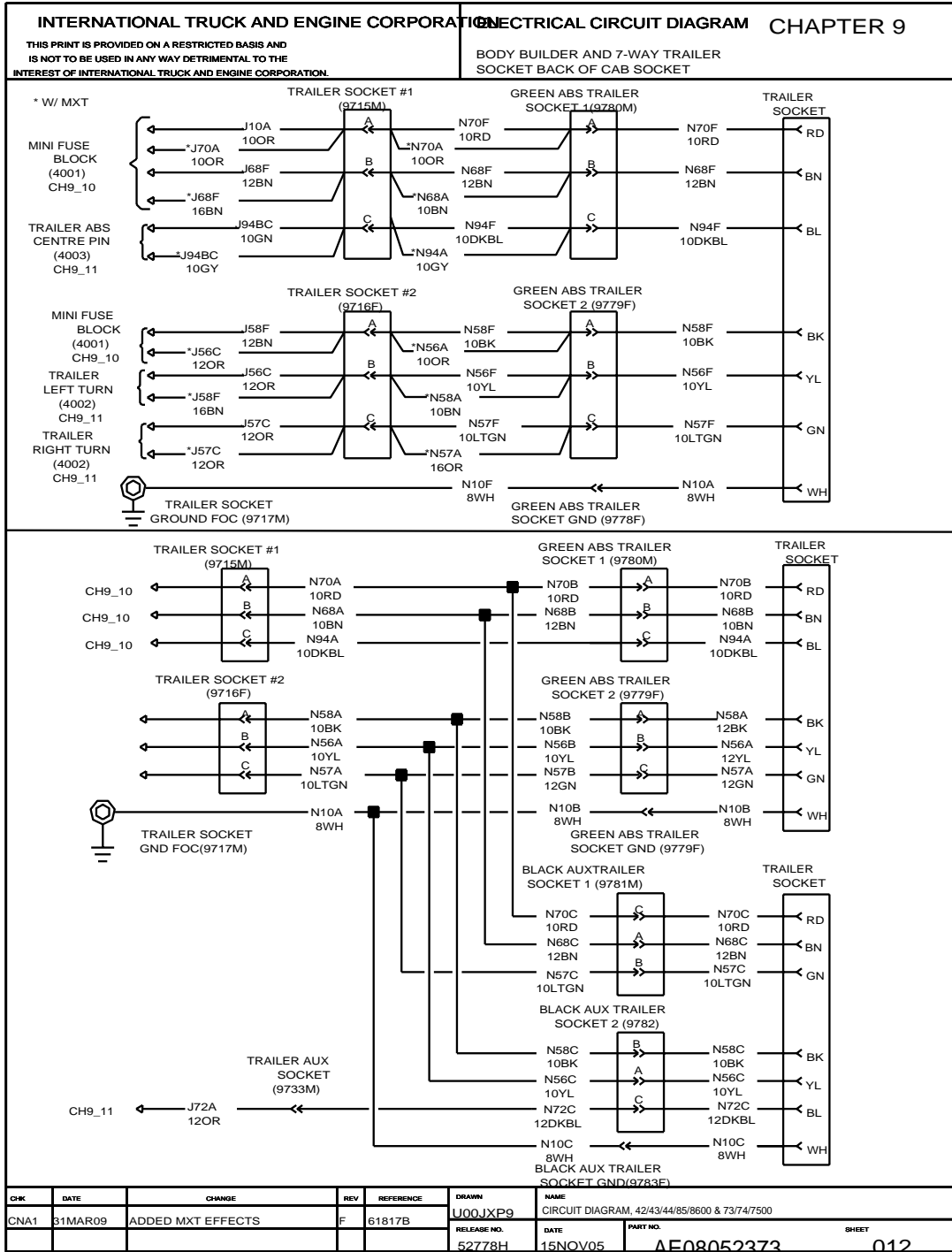


Figure 127 Body Builder and Trailer Socket Back of Cab Sockets

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

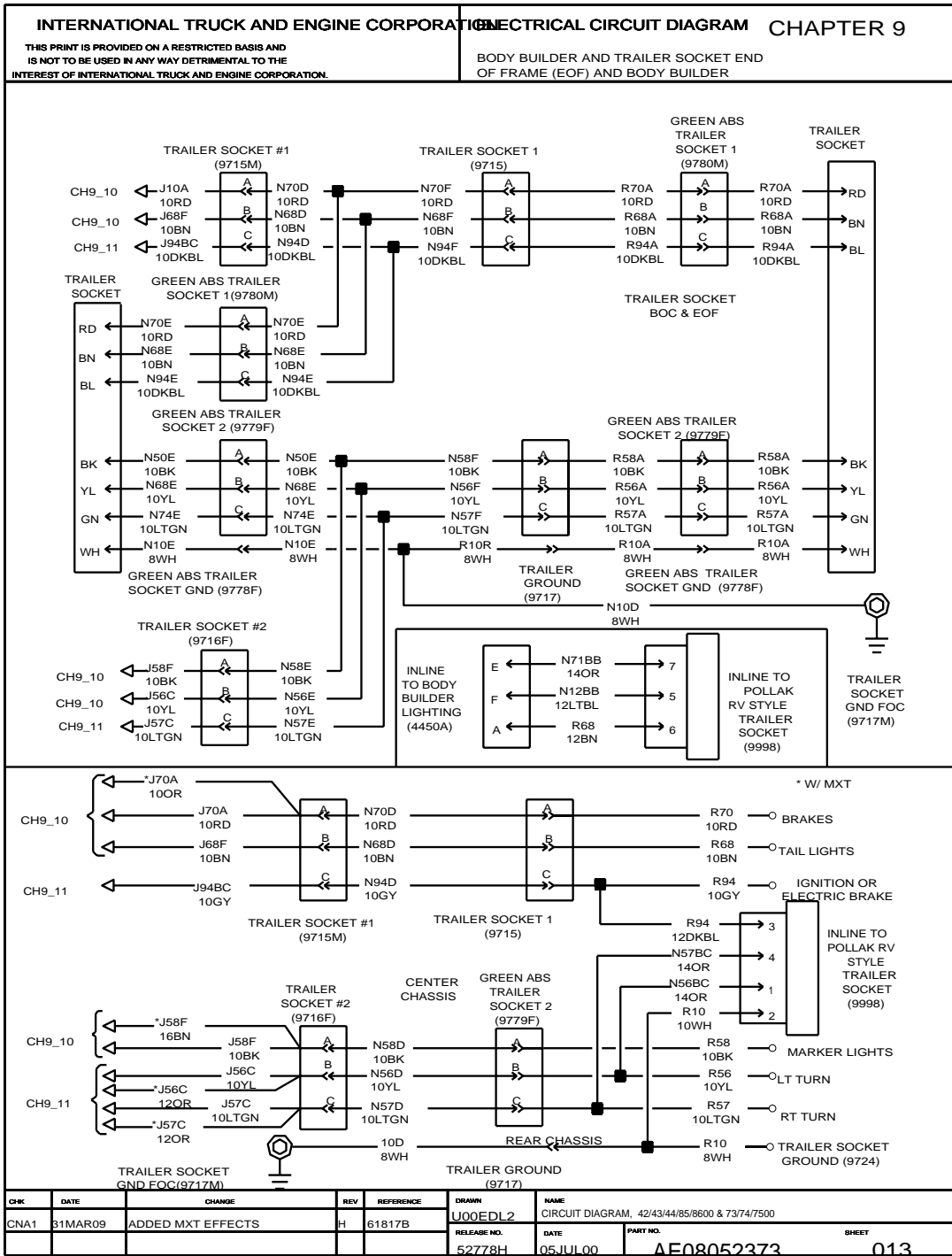


Figure 128 Body Builder and Trailer Socket End of Frame (EOF) Socket and Body Builder

### 9.15. AIR SOLENOID 4-WAY PACK, P. 14

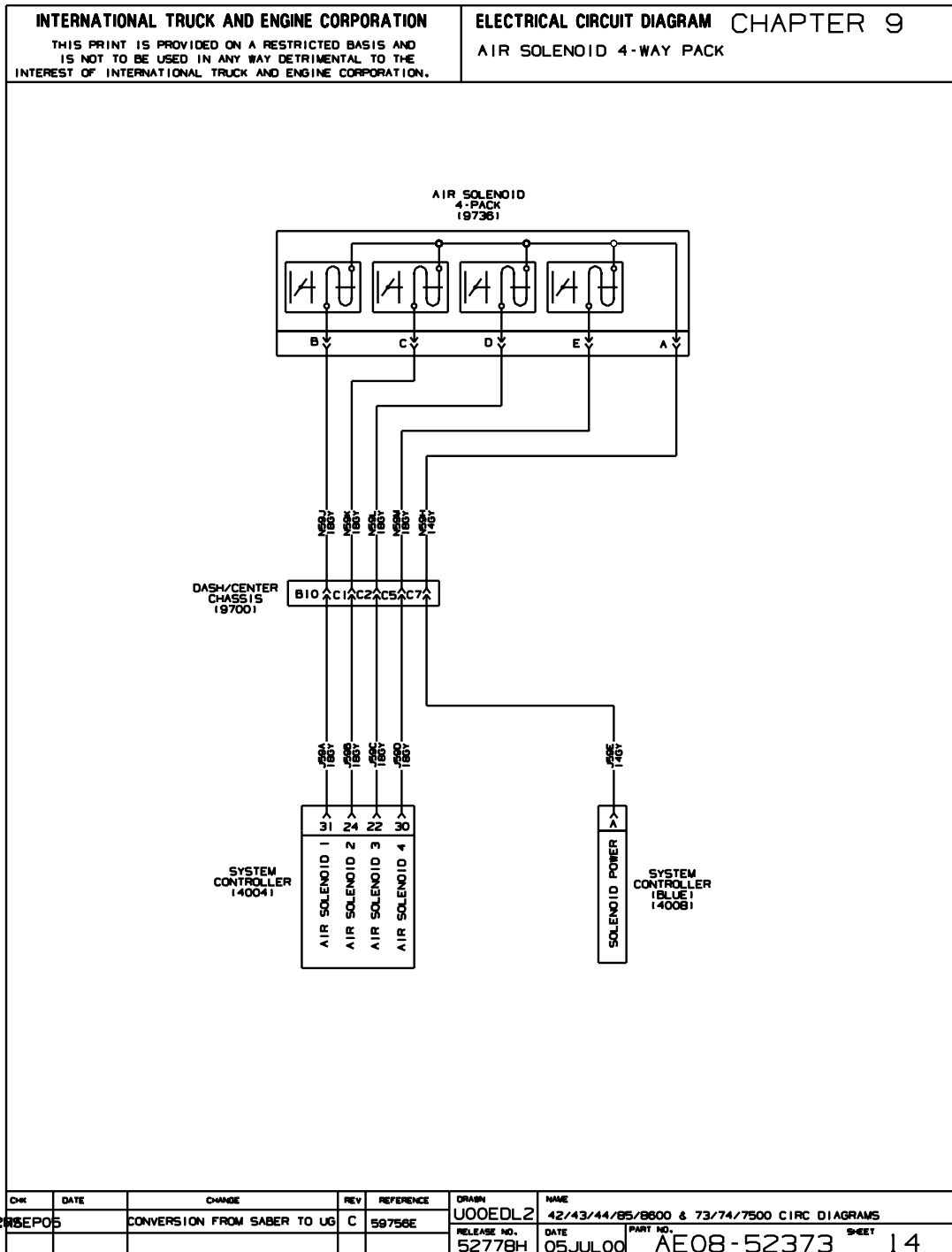


Figure 129 Air Solenoid 4-Way Pack

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

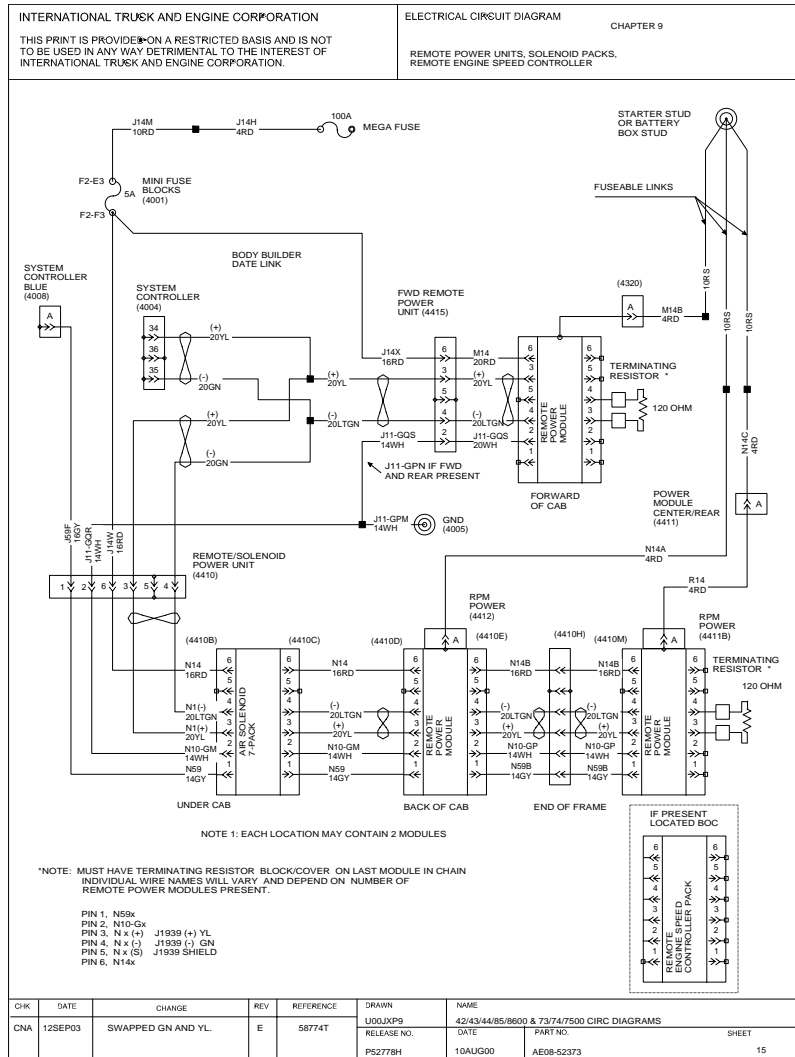


Figure 130 Remote Power Units, Solenoid Packs, Remote Engine Speed Controller

9.17. CHASSIS ACCESSORIES, P. 16

INTERNATIONAL TRUCK AND ENGINE CORPORATION 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.				ELECTRICAL CIRCUIT DIAGRAM    CHAPTER 9 CHASSIS ACCESSORIES		
PAGE INTENTIONALLY LEFT BLANK						
CHR	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
2	SEP05	CONVERSION FROM SABER TO UG	B	59756E	U00EDL2	NGV MD. RH. SS ELECTRICAL CIRCUIT DIAGRAM
					RELEASE NO.	DATE
					52778H	10JUL00
					PART NO.	SHEET
					AE08-52373	16

Figure 131 Chassis Accessories

9.18. AIR SUSPENSION, P. 17

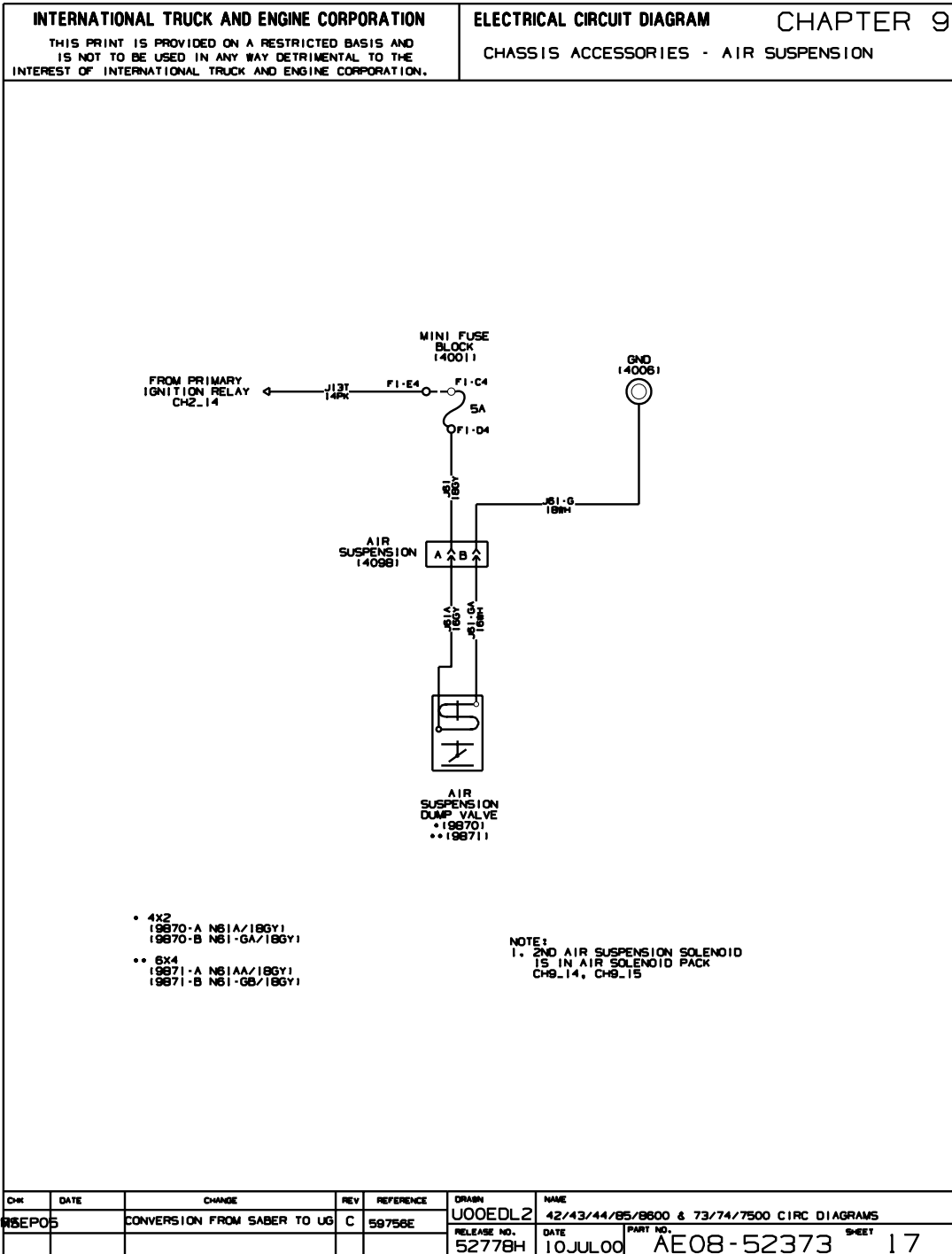


Figure 132 Air Suspension

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

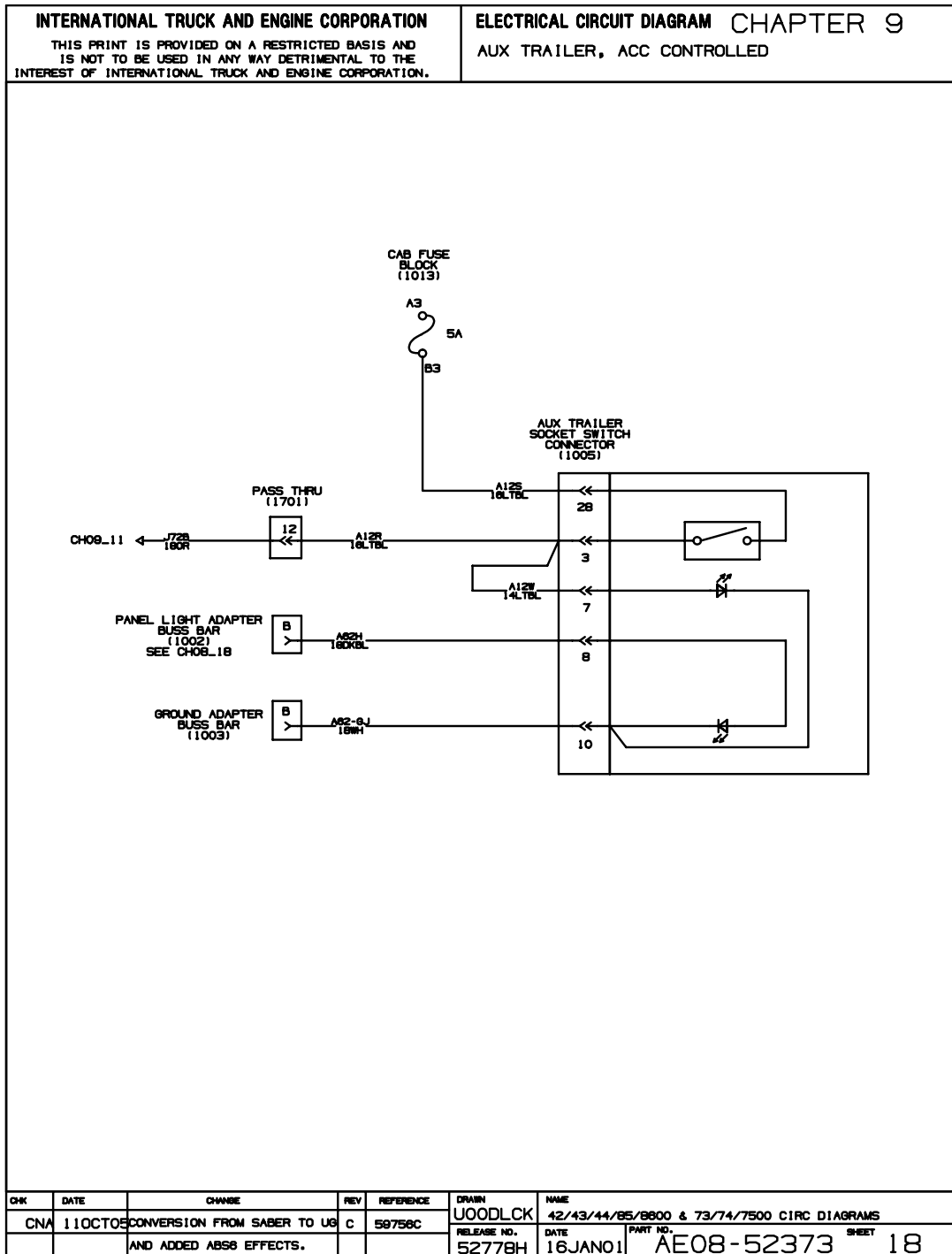


Figure 133 Aux. Trailer, Acc Controlled

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

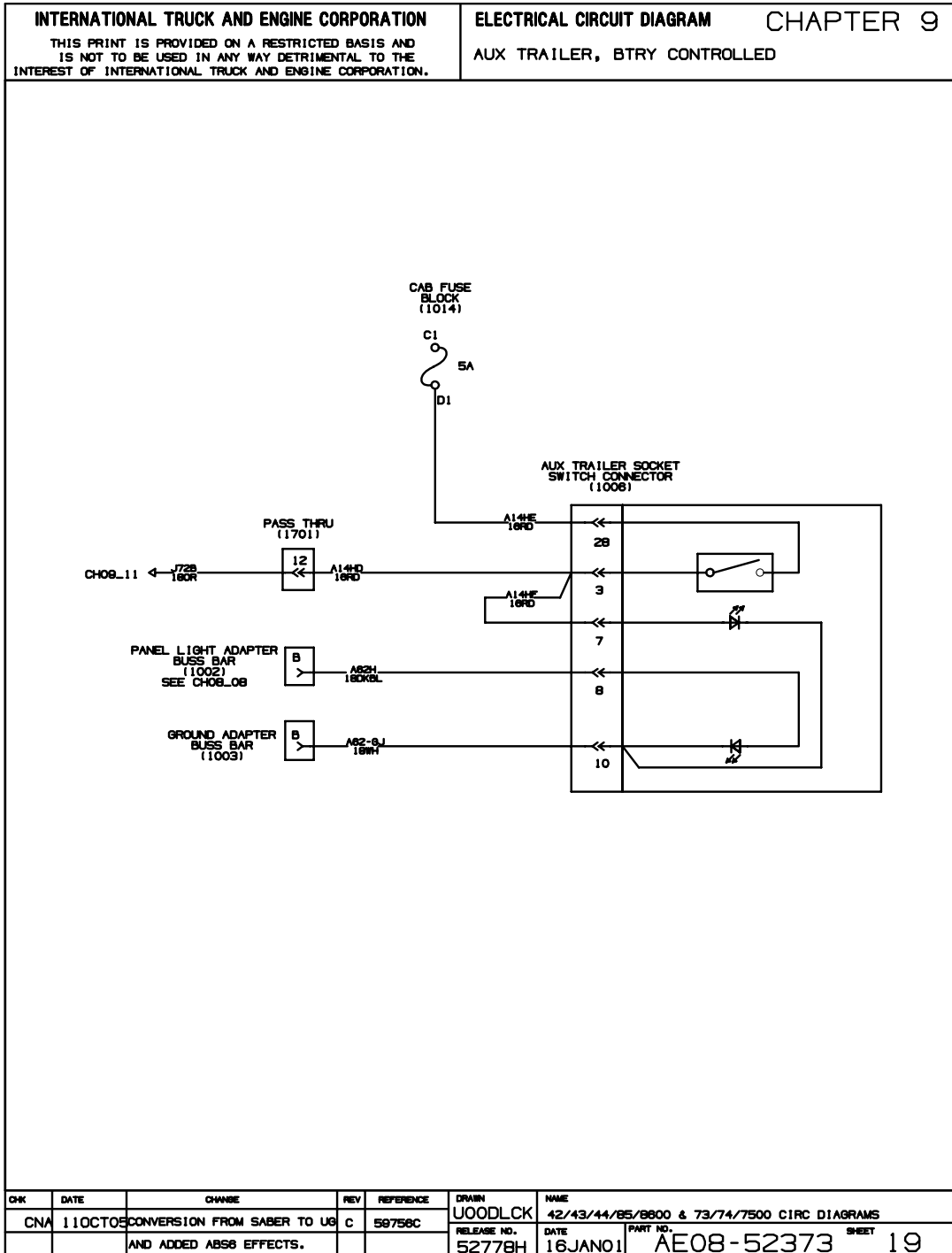


Figure 134 Aux. Trailer, Btry Controlled



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

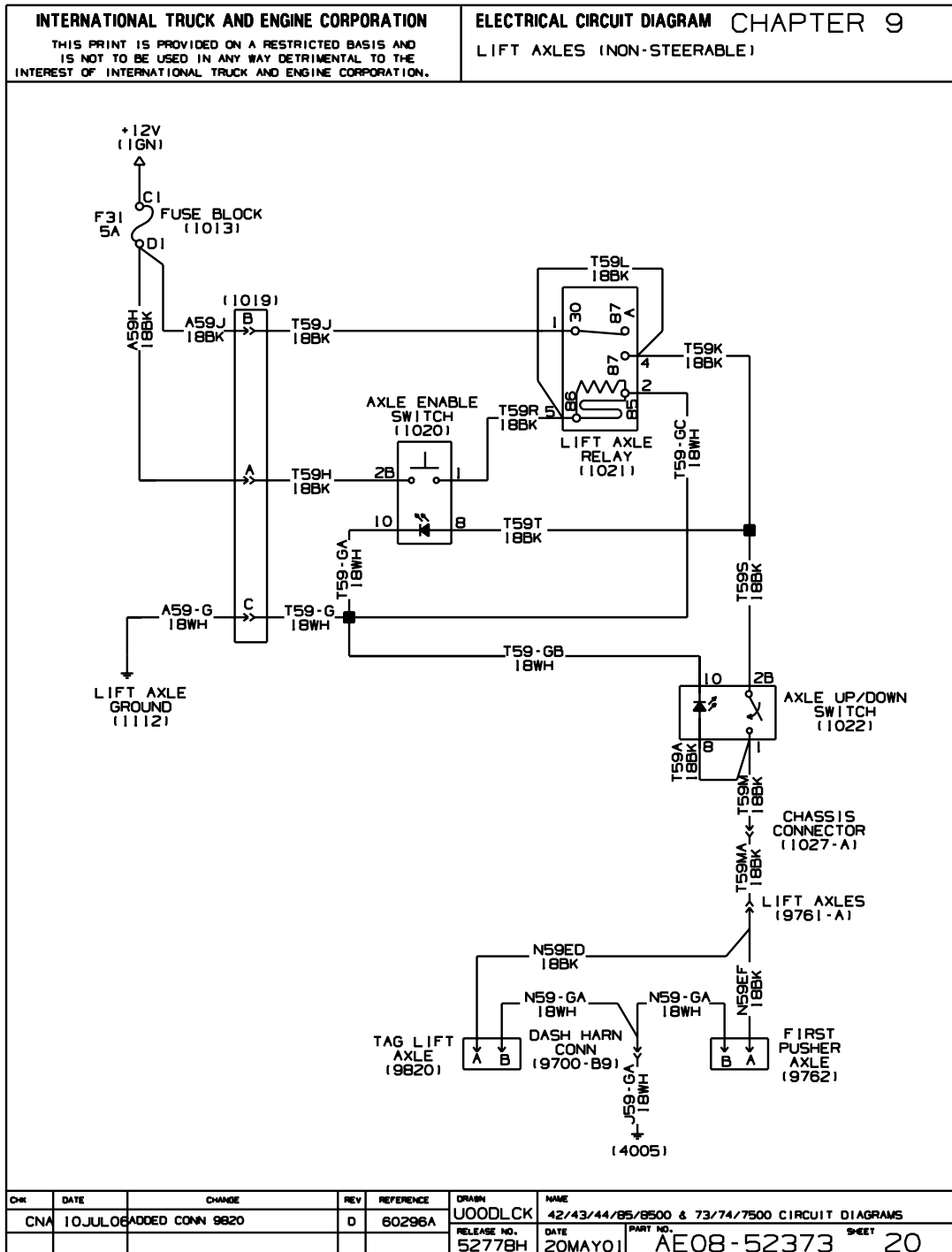


Figure 135 Lift Axles (Non-Steerable)

9.22. LIFT AXLES (STEERABLE), P. 21

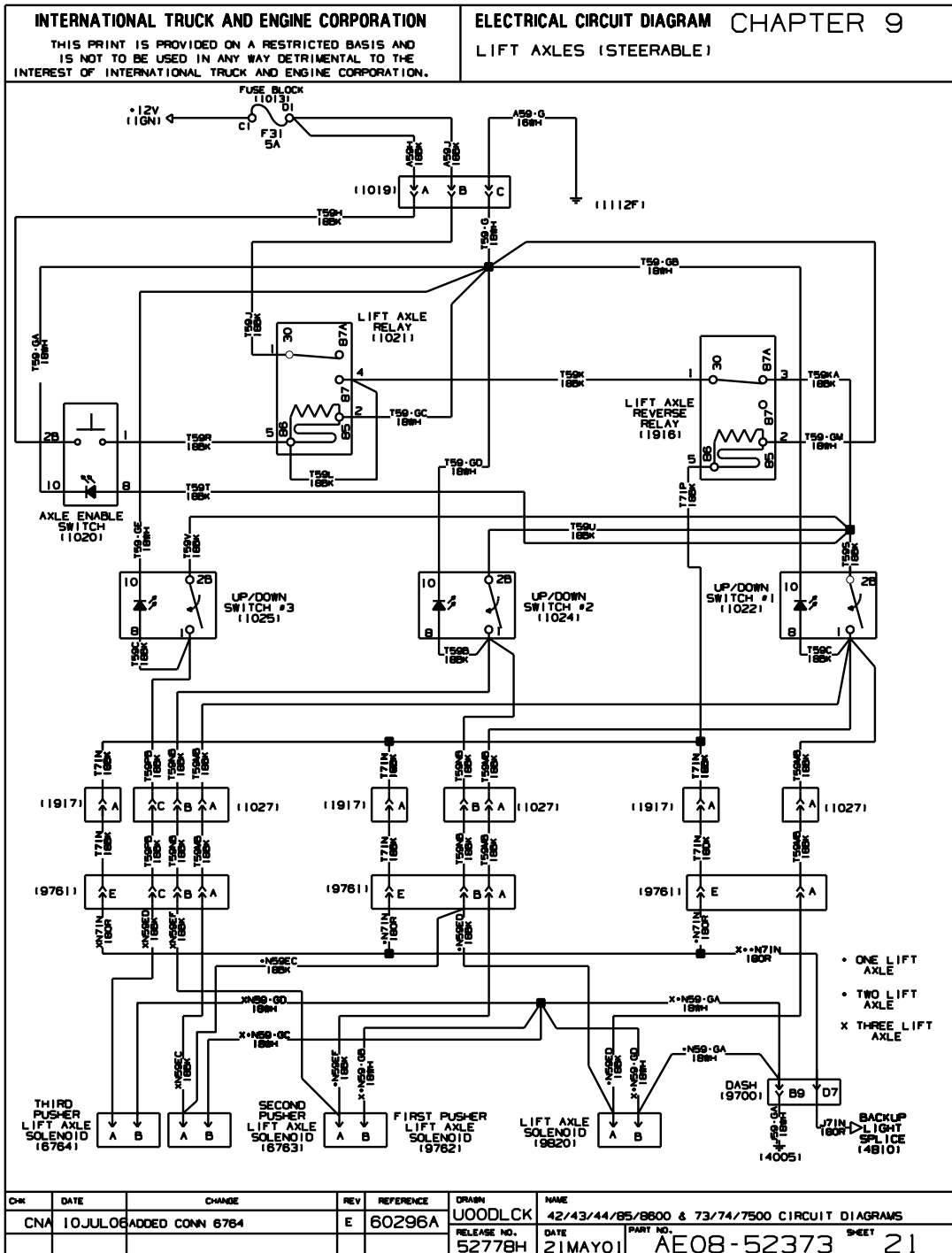


Figure 136 Lift Axles (Non-Steerable)

9.23. AIR ACTUATED PARK BRAKE, P. 22

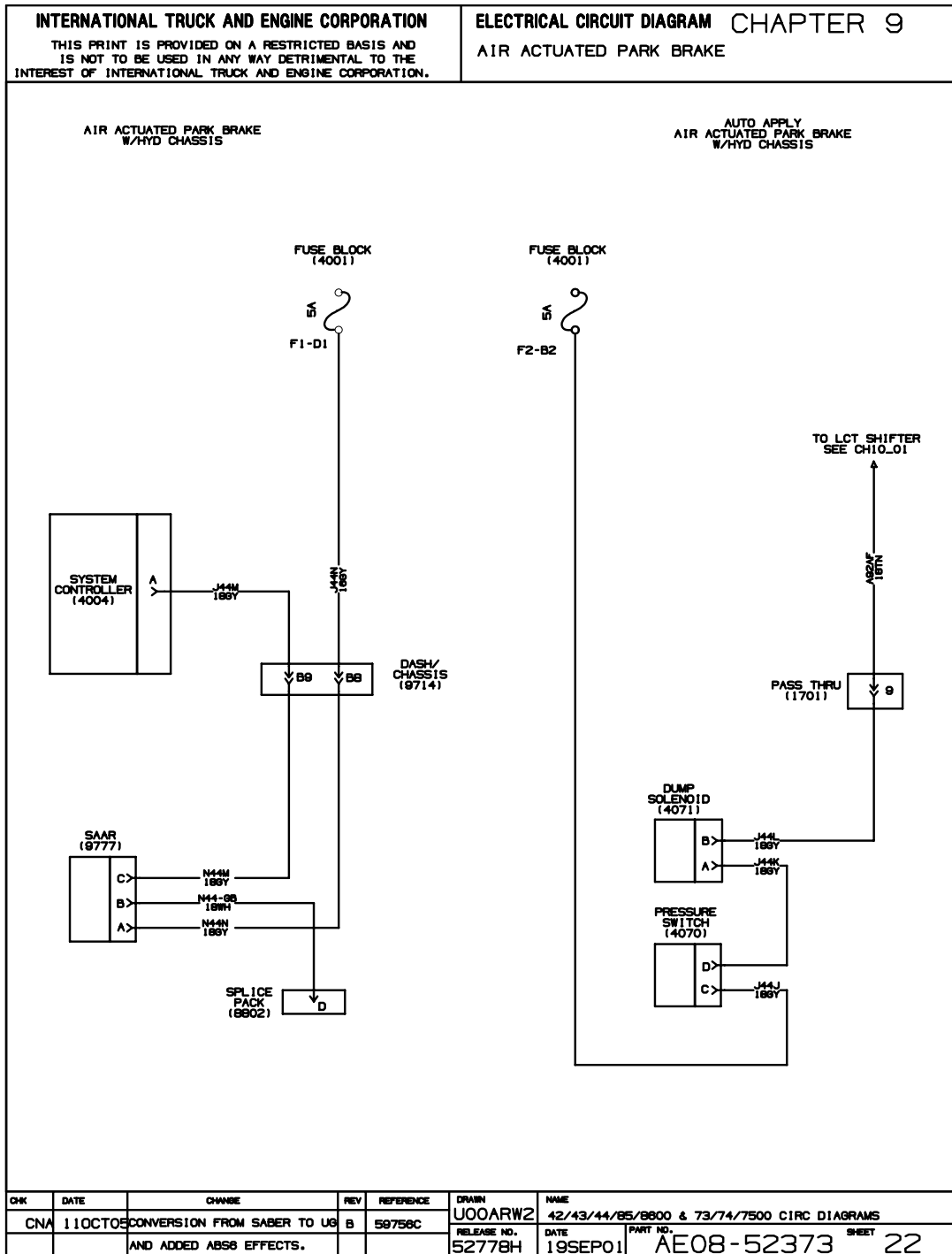


Figure 137 Air Actuated Park Brake

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

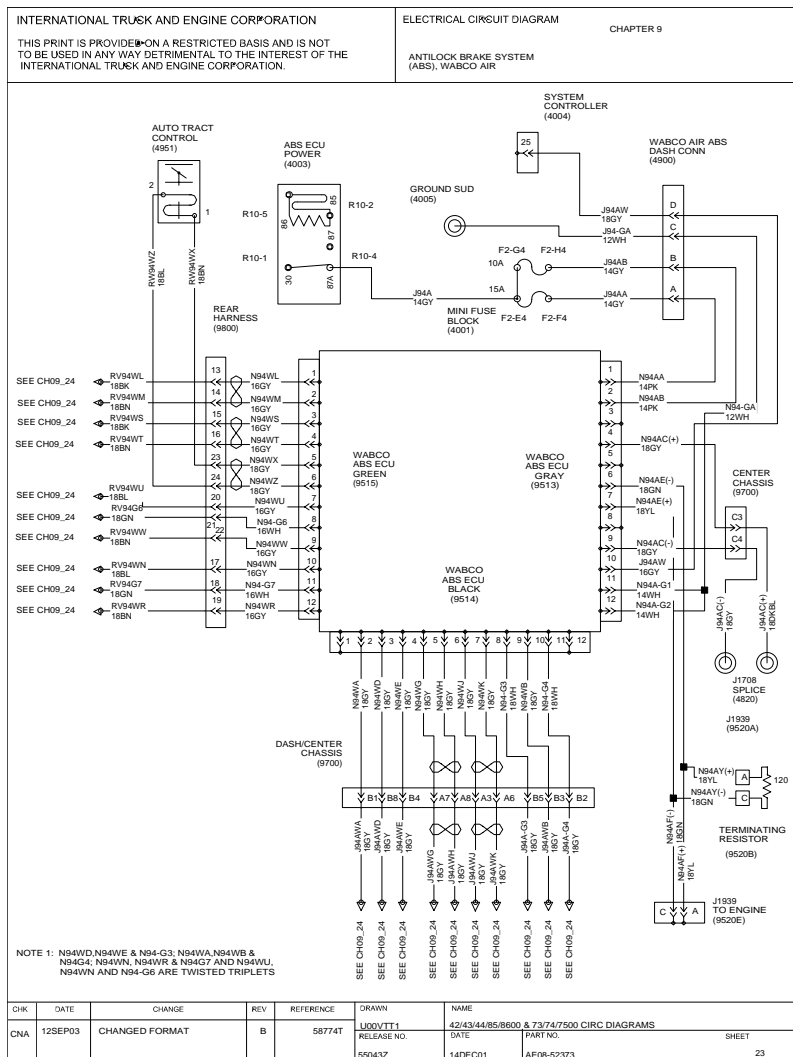


Figure 138 Antilock Brake System, WABCO Air

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

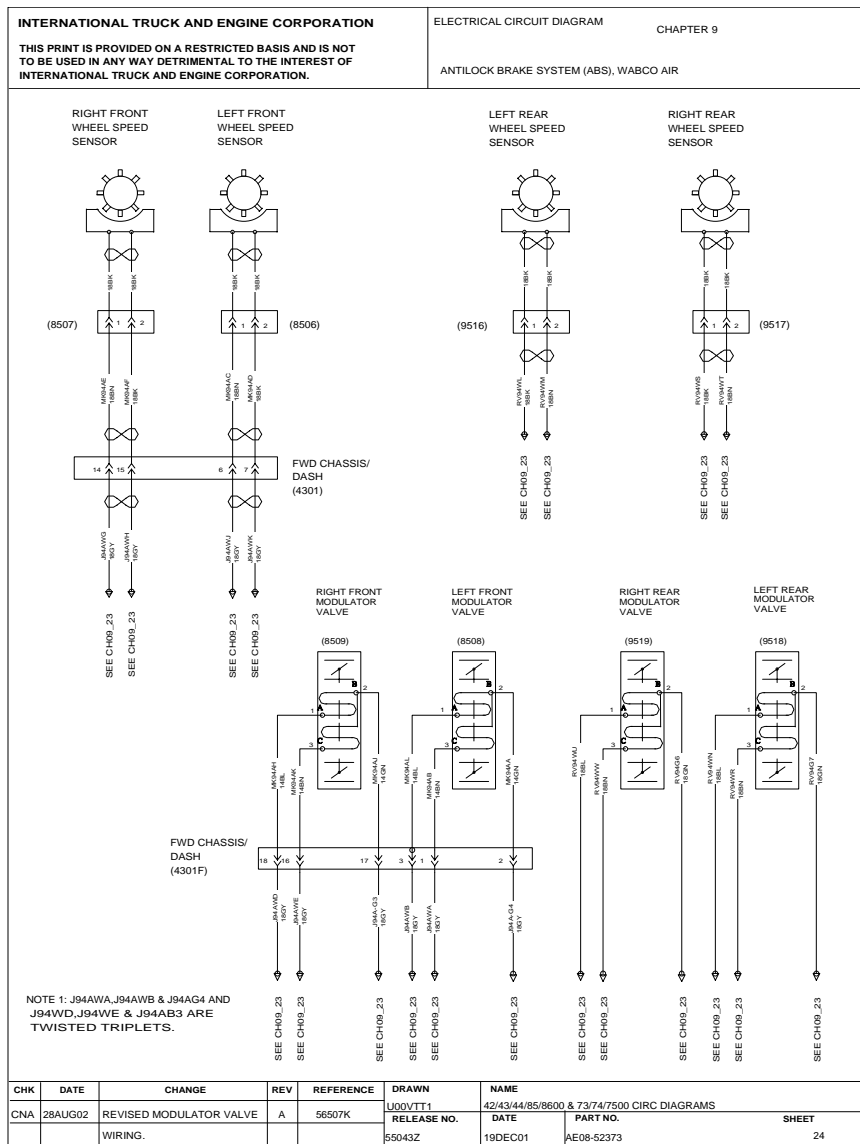


Figure 139 Antilock Brake System, WABCO Air

9.26. LIFT AXLES, WITH NON—STEERABLE FOR SS MODELS, P. 25

INTERNATIONAL TRUCK AND ENGINE CORPORATION 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.				ELECTRICAL CIRCUIT DIAGRAM      CHAPTER 9 LIFT AXLES, W/NON-STEERABLE      FOR SS MODELS			
INTENTIONALLY LEFT BLANK							
CHR	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	
CNA	10JUL08	GEOMETRY REMOVED	D	60296A	WOODLCK	42/43/44/85/8600 & 73/74/7500 CIRCUIT DIAGRAMS	
					RELEASE NO.	DATE	PART NO. SHEET
					52778H	15DEC01	AE08-52373 25

Figure 140 Lift Axles, With Non—Steerable for SS Models

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

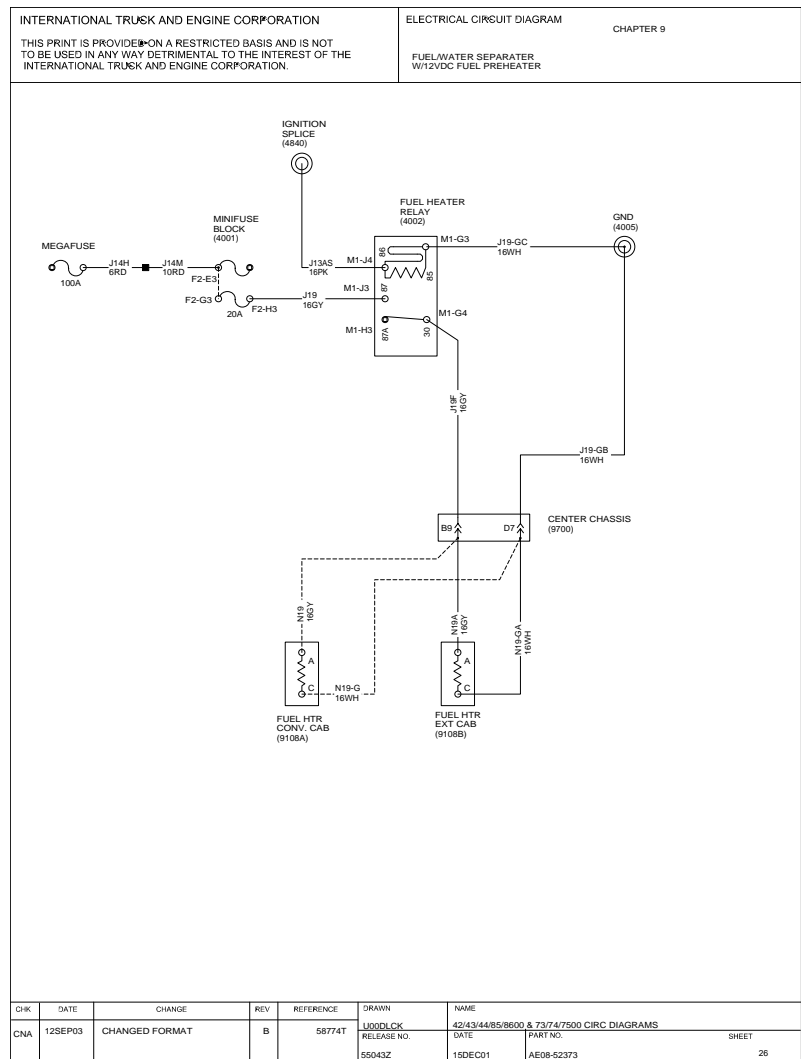


Figure 141 Fuel / Water Separator With 12VDC Fuel Preheater

9.28. ELECTRONIC TRAILER BRAKE ACCOMMODATION, P. 27

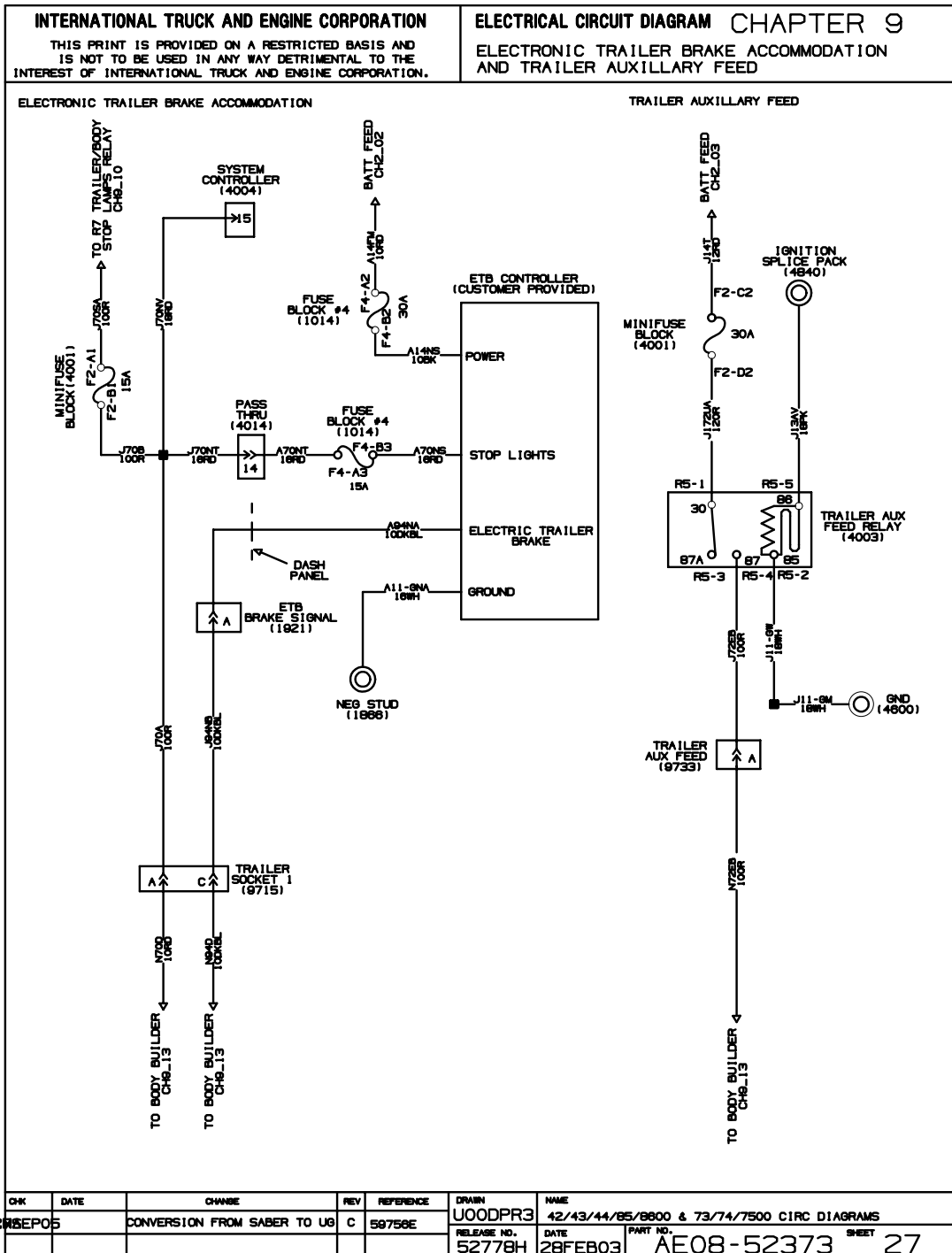


Figure 142 Electronic Trailer Brake Accommodation



9.29. LECTRASHIFT ACCOMMODATION, P. 28

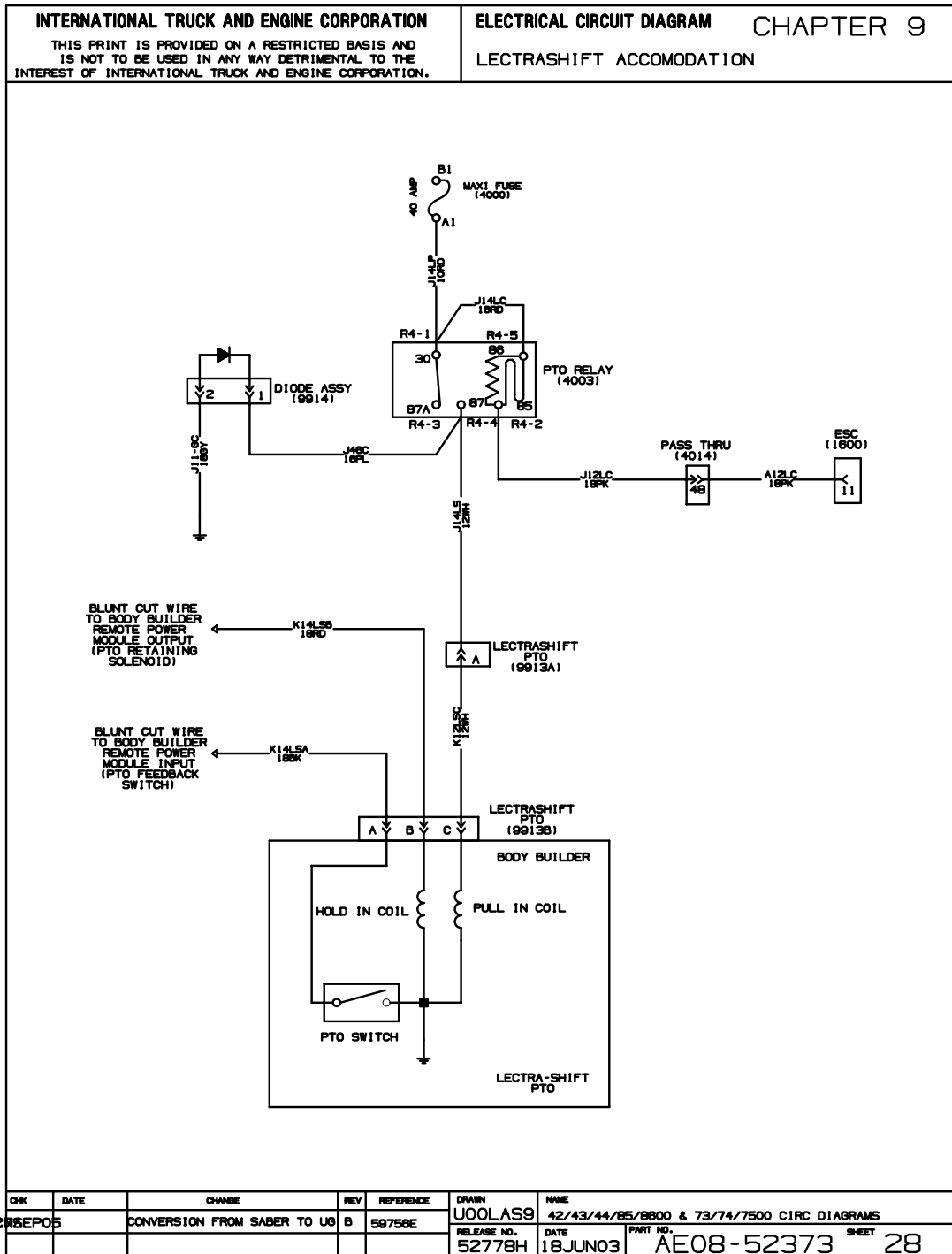


Figure 143 Lectrashift Accommodation

9.30. AUXILIARY 40 AMP CIRCUIT, P. 29

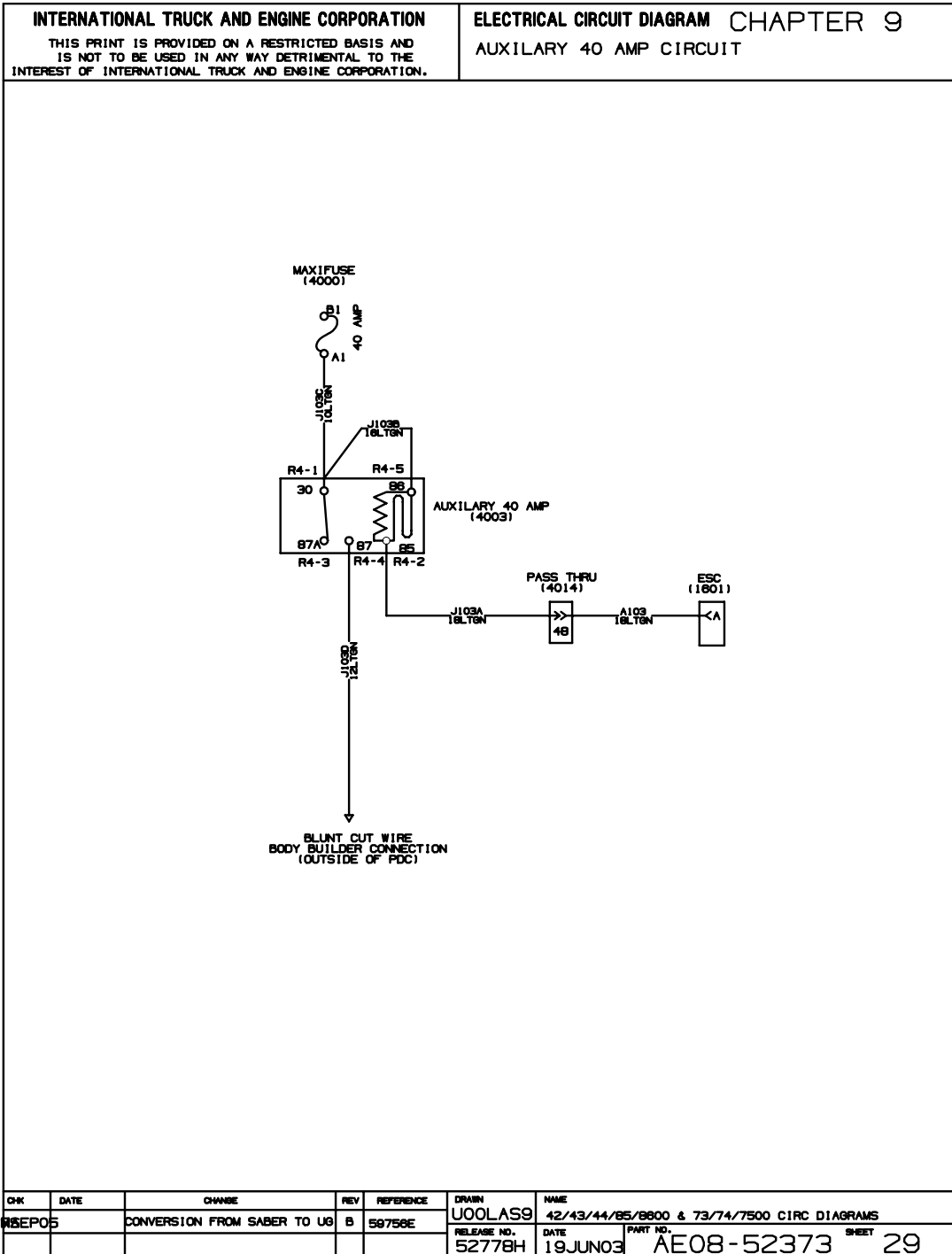


Figure 144 Auxiliary 40 Amp Circuit

9.31. HOURMETER, CUSTOMER MOUNTED PTO, P. 30

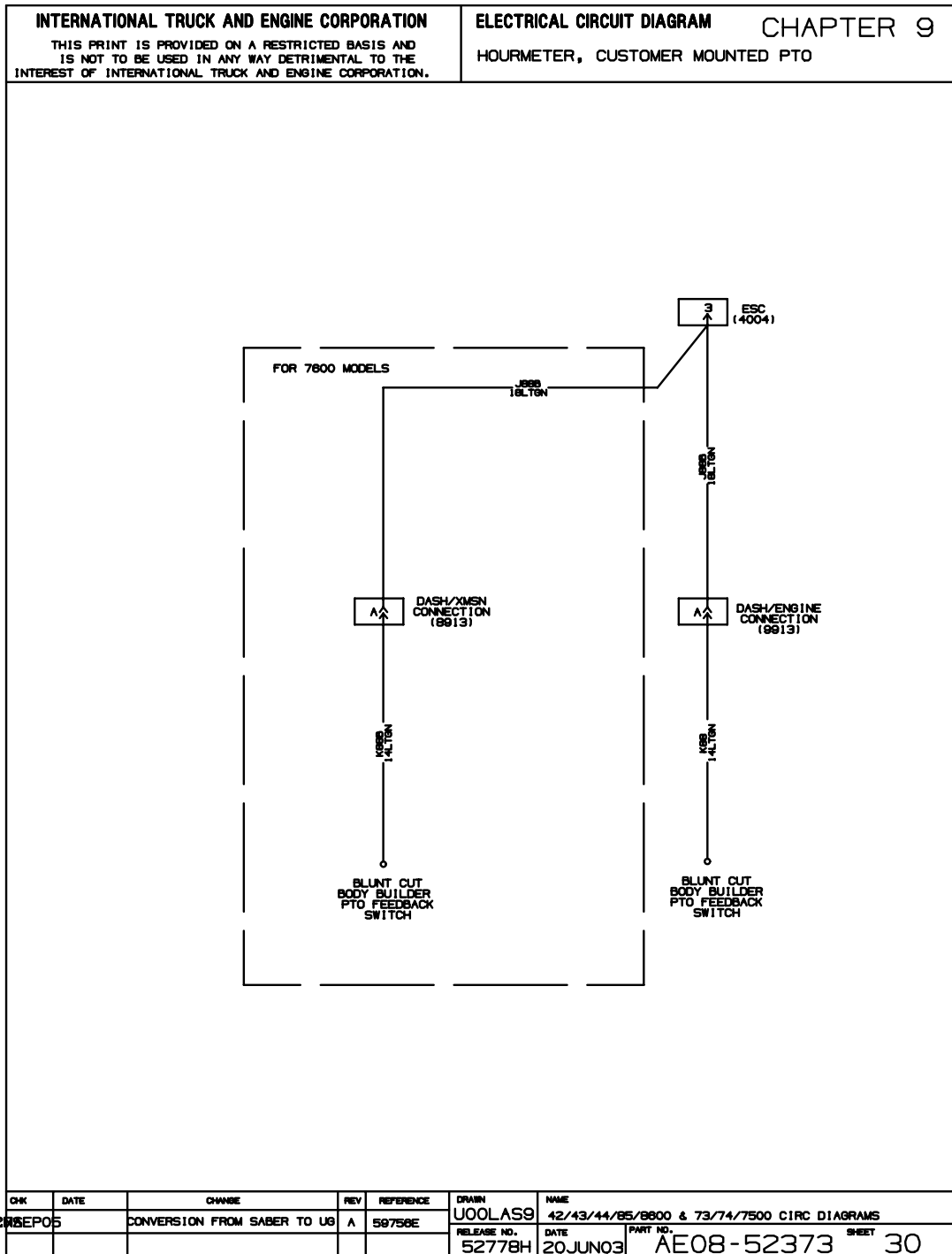


Figure 145 Hourmeter, Customer Mounted PTO

9.32. REMOTE START/ STOP, P. 31

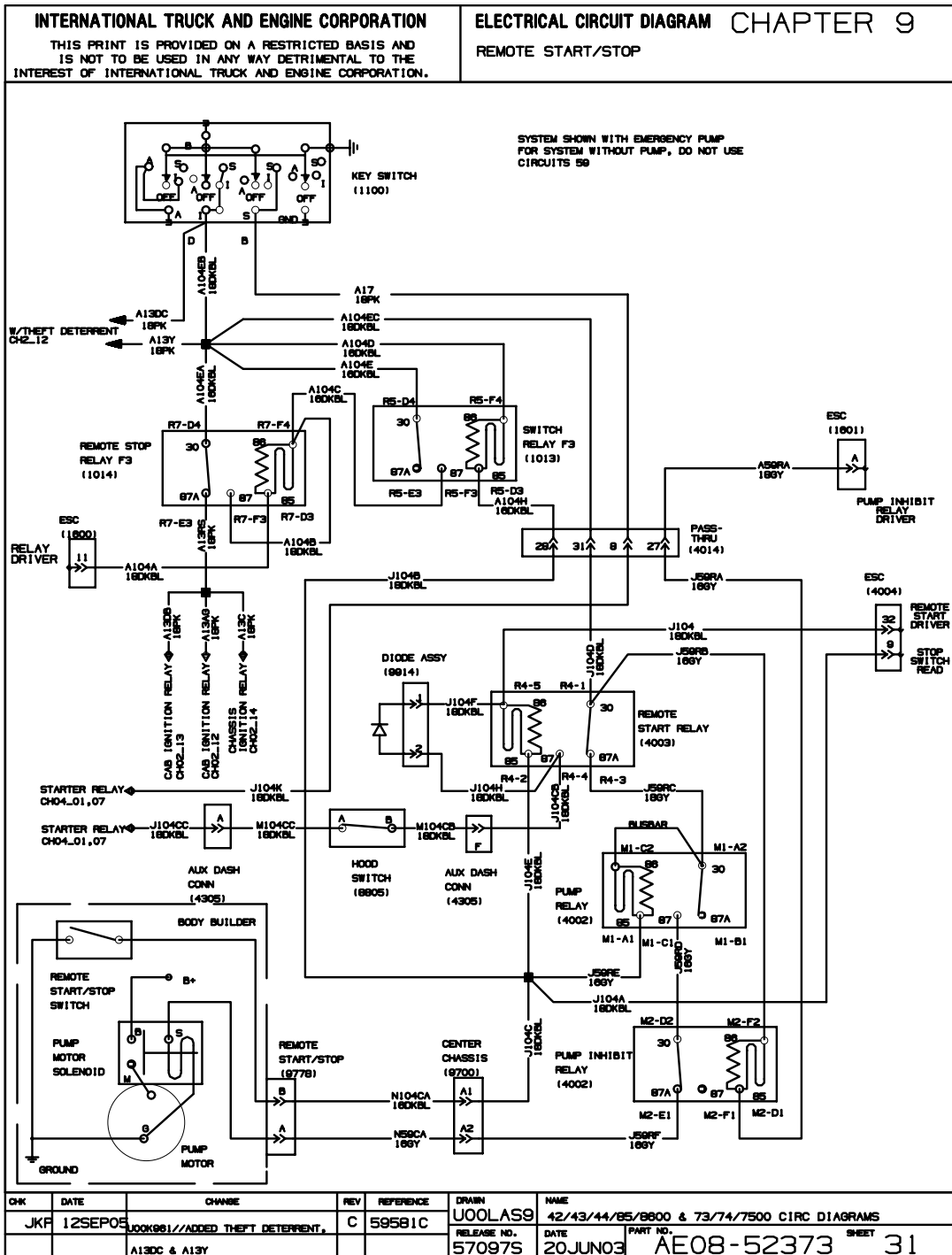


Figure 146 Remote Start/ Stop

9.33. LIFT AXLE WITH 14RAR, P. 32

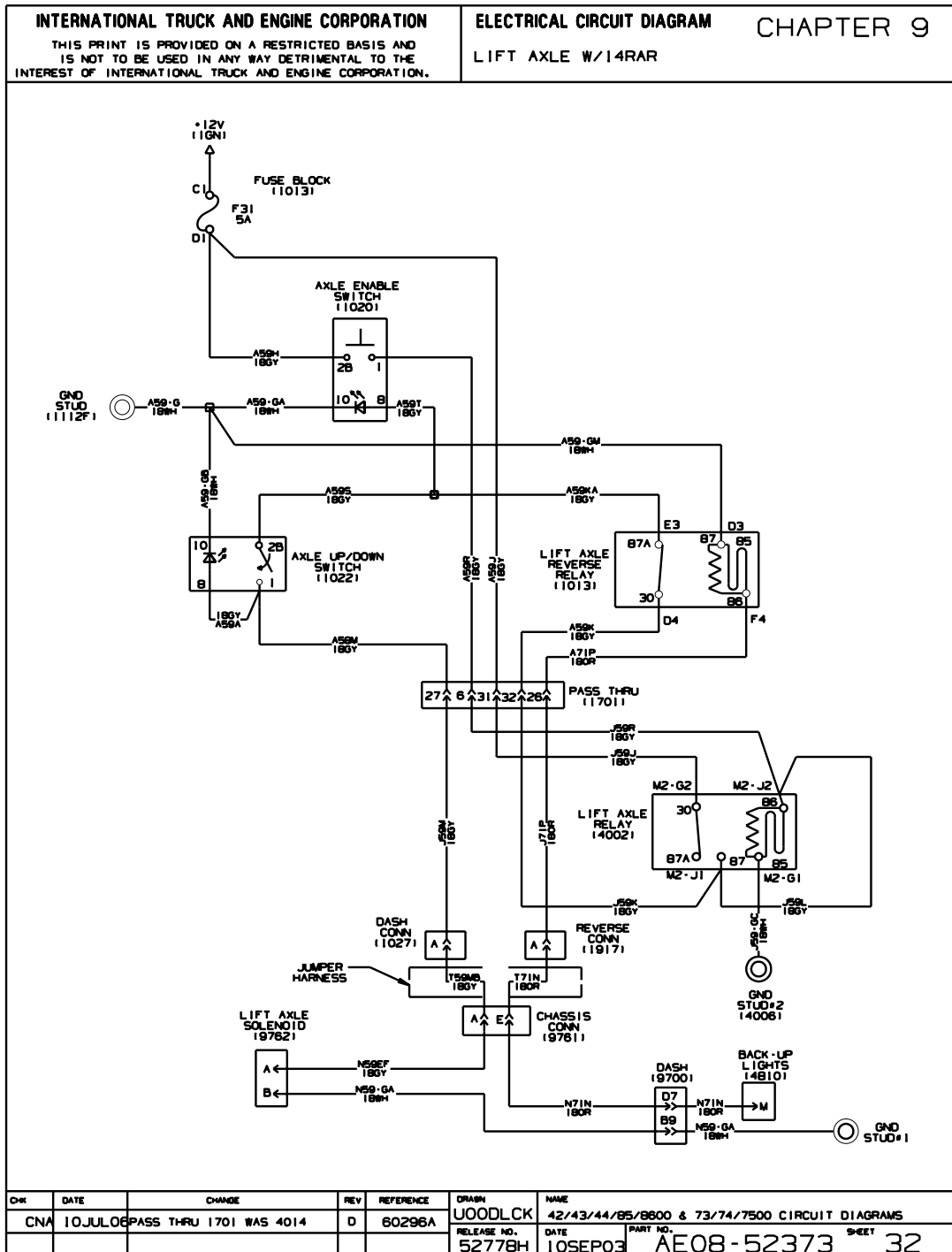


Figure 147 Lift Axle with 14RAR

9.34. LIFT GATE, P. 33

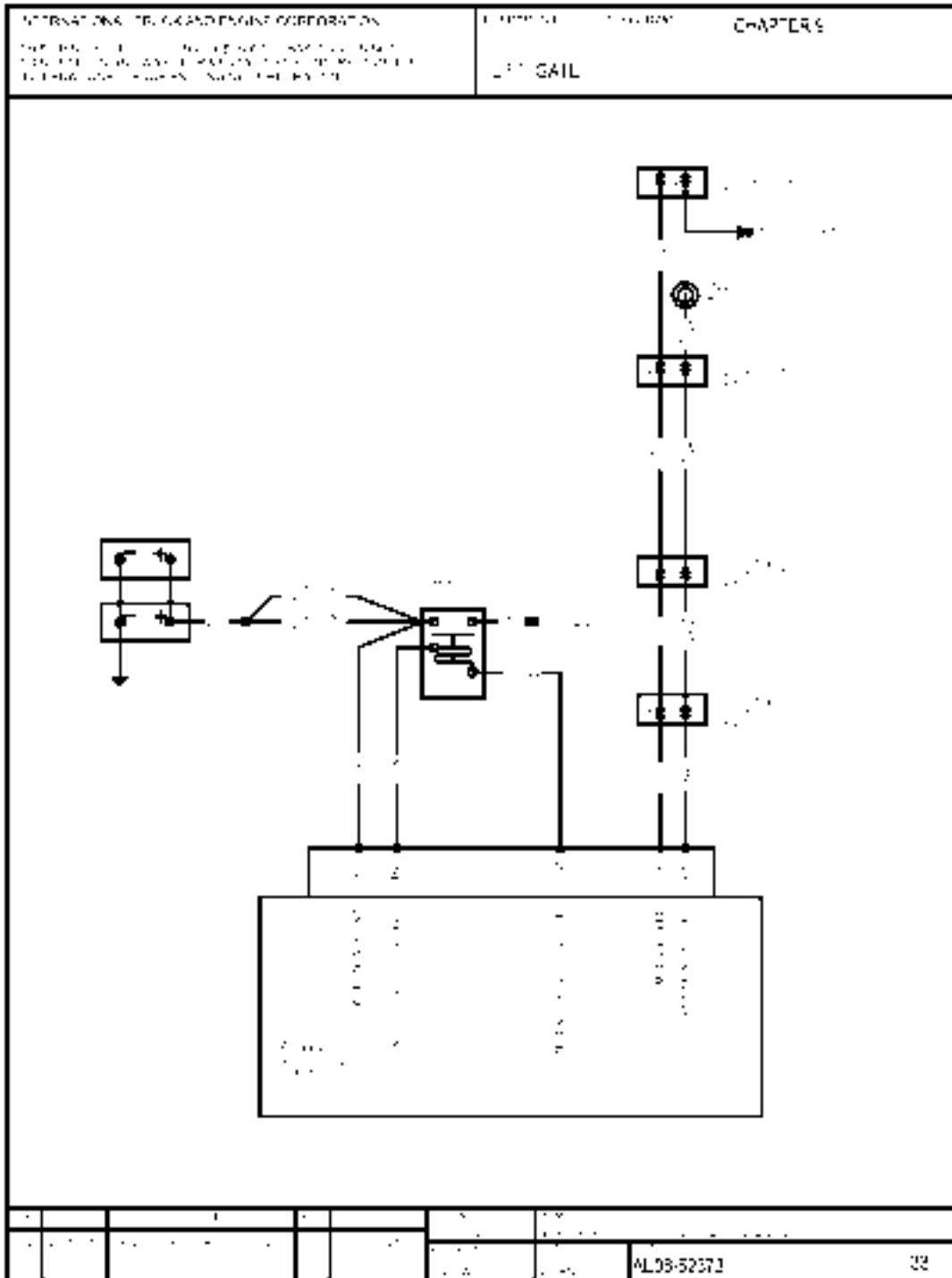


Figure 148 Lift Gate

9.35. LIFT AXLE MULTIPLEX, P. 34

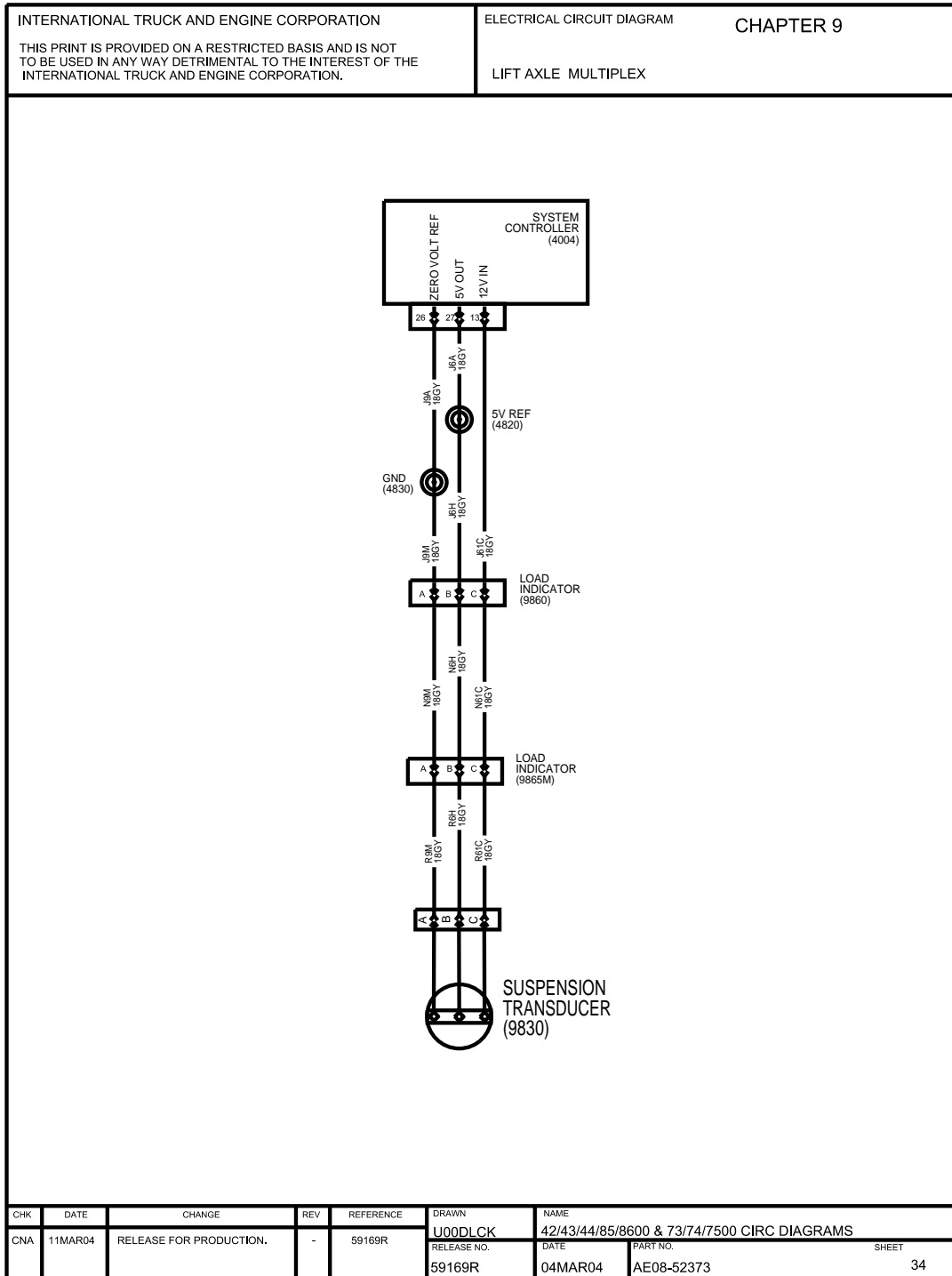


Figure 149 Lift Axle Multiplex

**9.36. BODY BUILDER WHEELCHAIR LIFT INTERLOCK ELECTRICAL CONNECTION, P. 35**

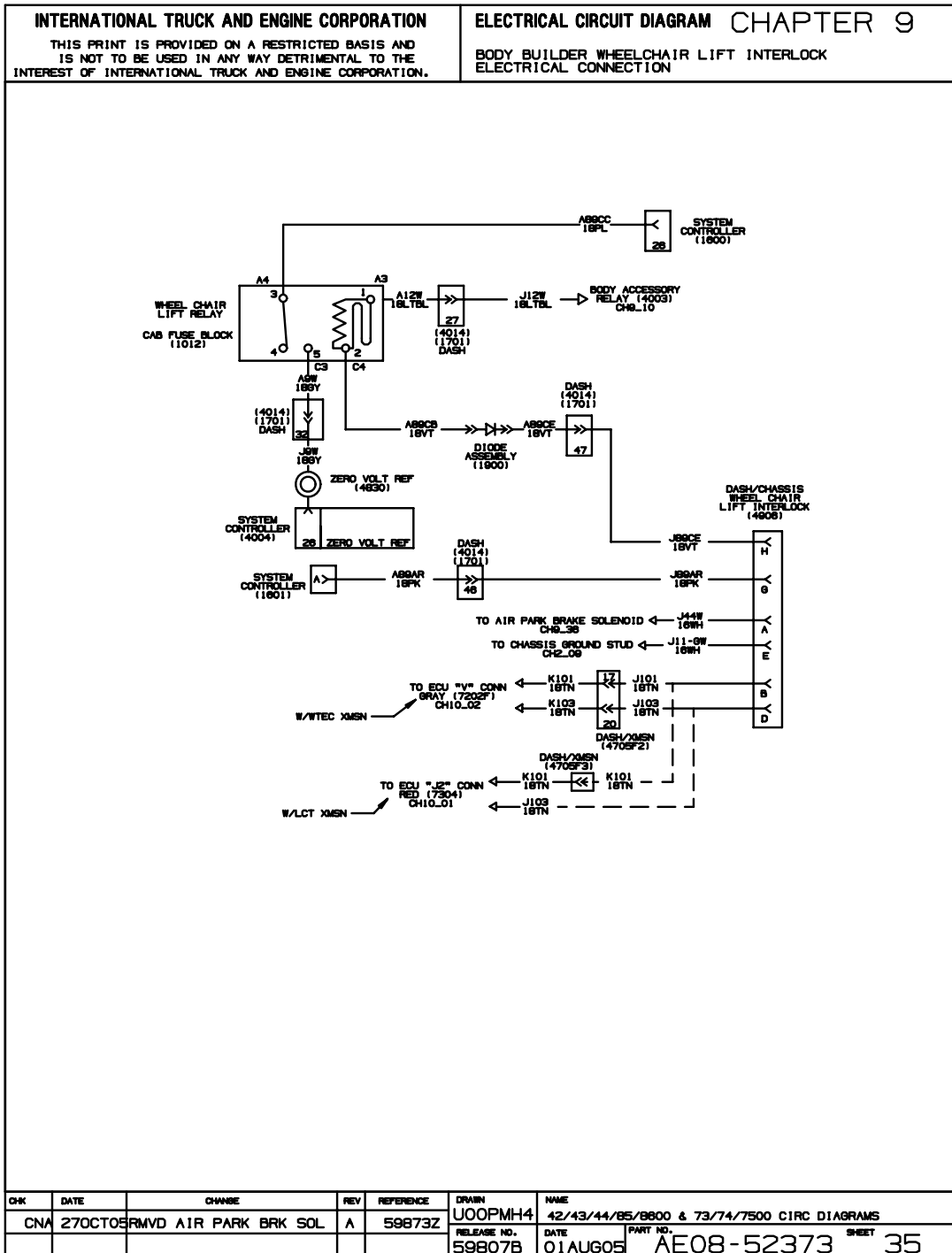


Figure 150 Body Builder Wheelchair Lift Interlock Electrical Connection



9.37. AIR PARK BRAKE INTERLOCK, P. 36

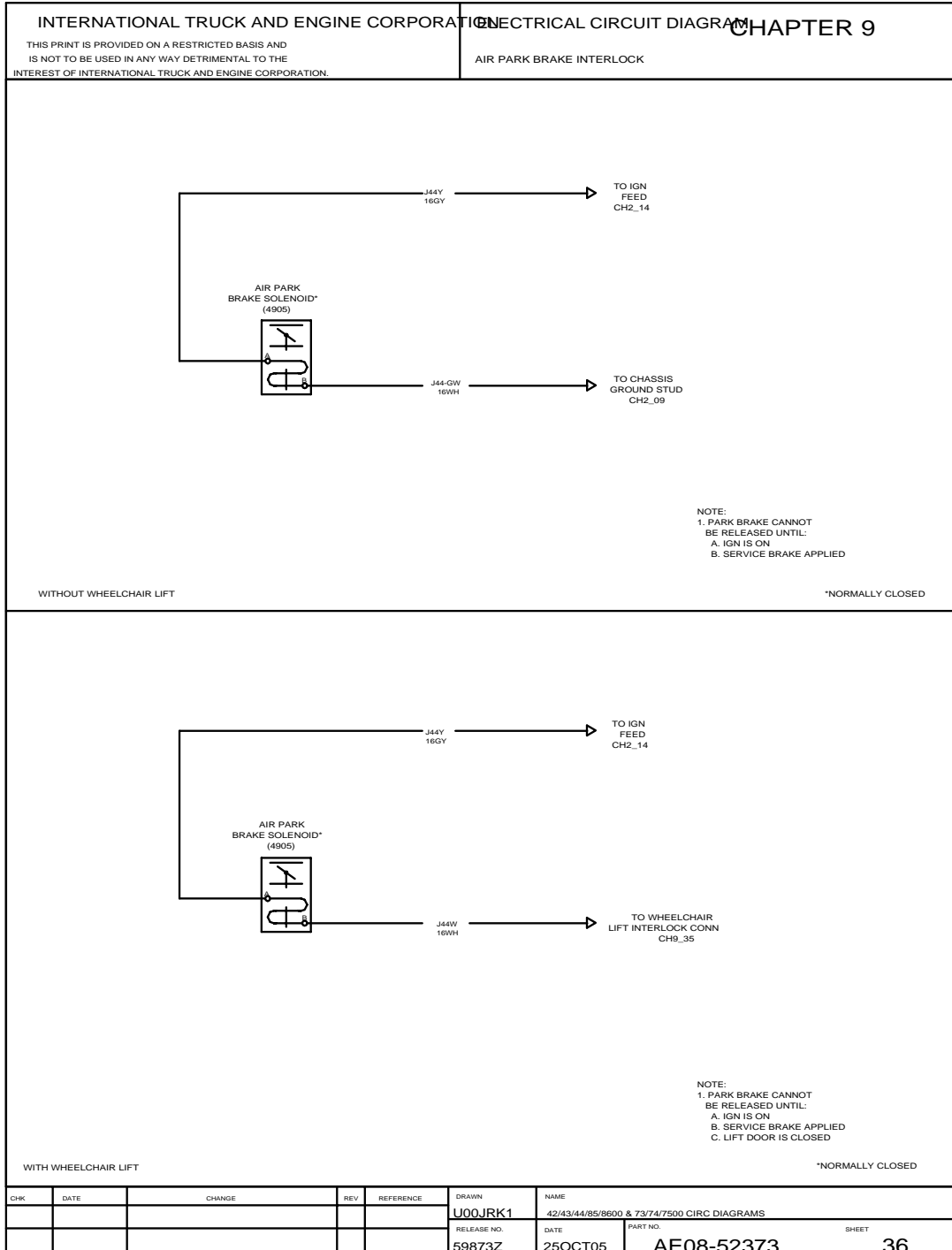


Figure 151 Air Park Brake Interlock

9.38. HYDRAULIC ABS — WABCO FULL POWER, P. 37

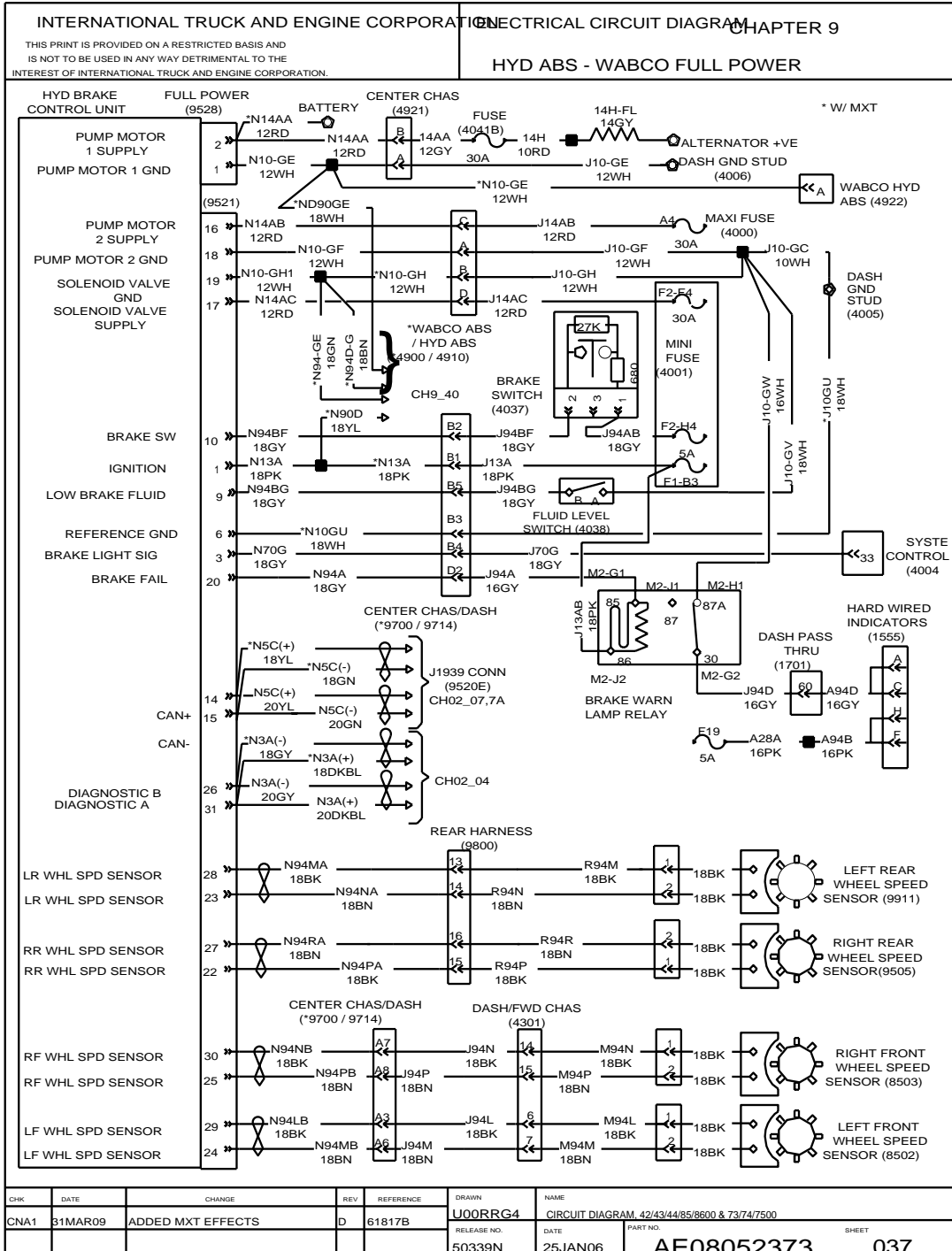


Figure 152 Hydraulic ABS — Wabco Full Power

9.39. CENTER PIN CIRCUIT, P. 38

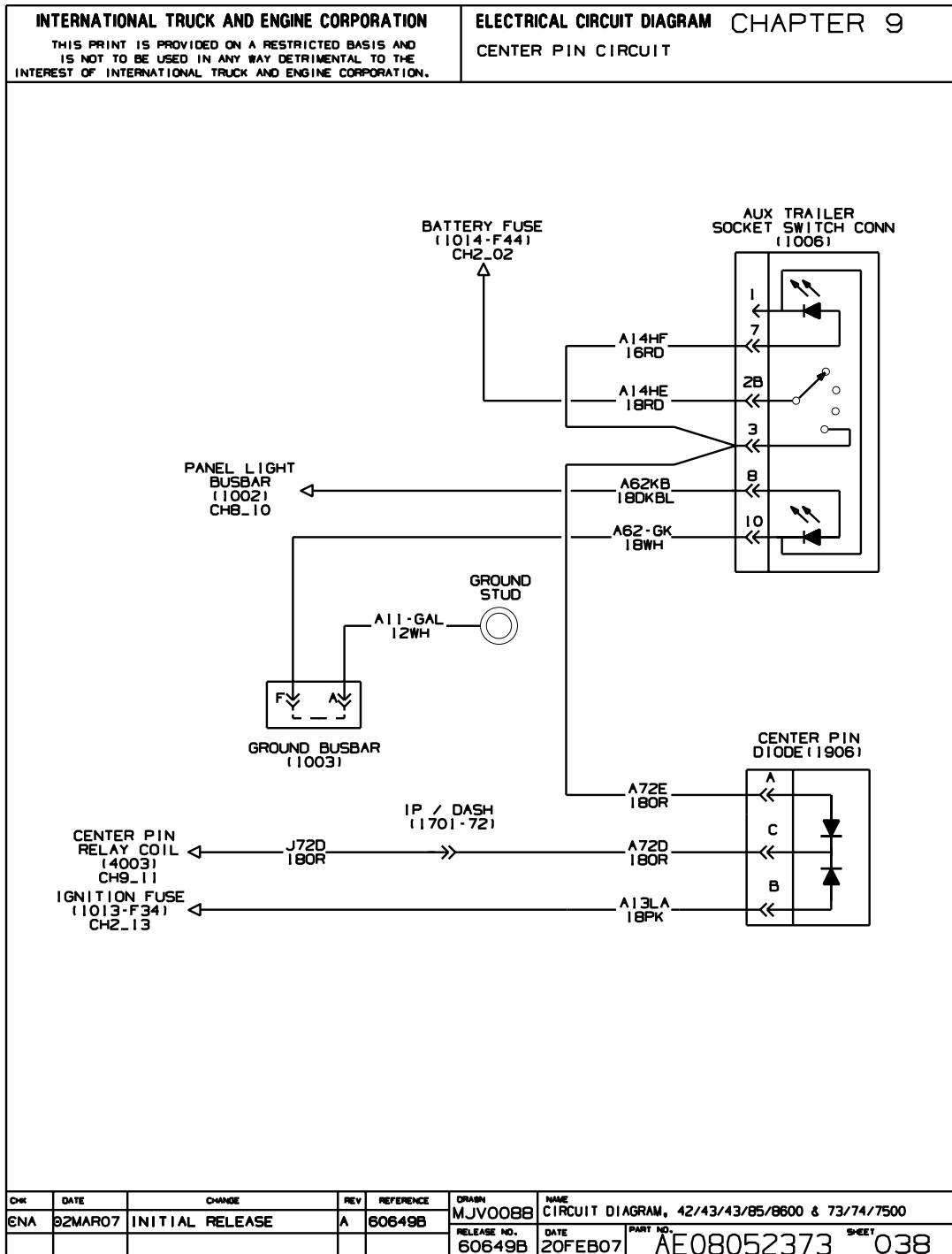


Figure 153 Center Pin Circuit

9.40. FIFTH WHEEL CIRCUIT, P. 39

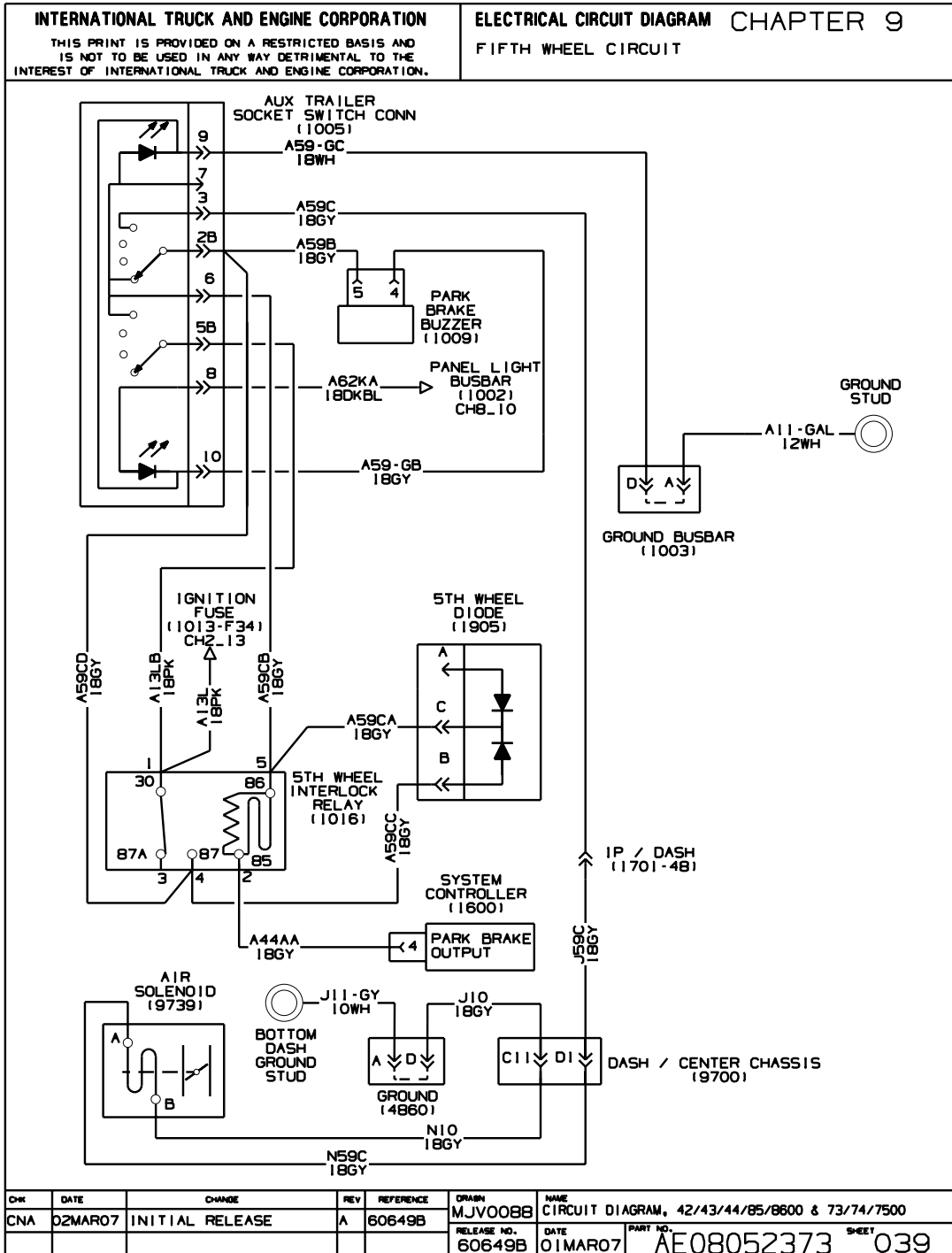


Figure 154 Fifth Wheel Circuit

9.41. HYDRAULIC POWER BRAKE WITH SAHR PARK BRAKES, P. 40

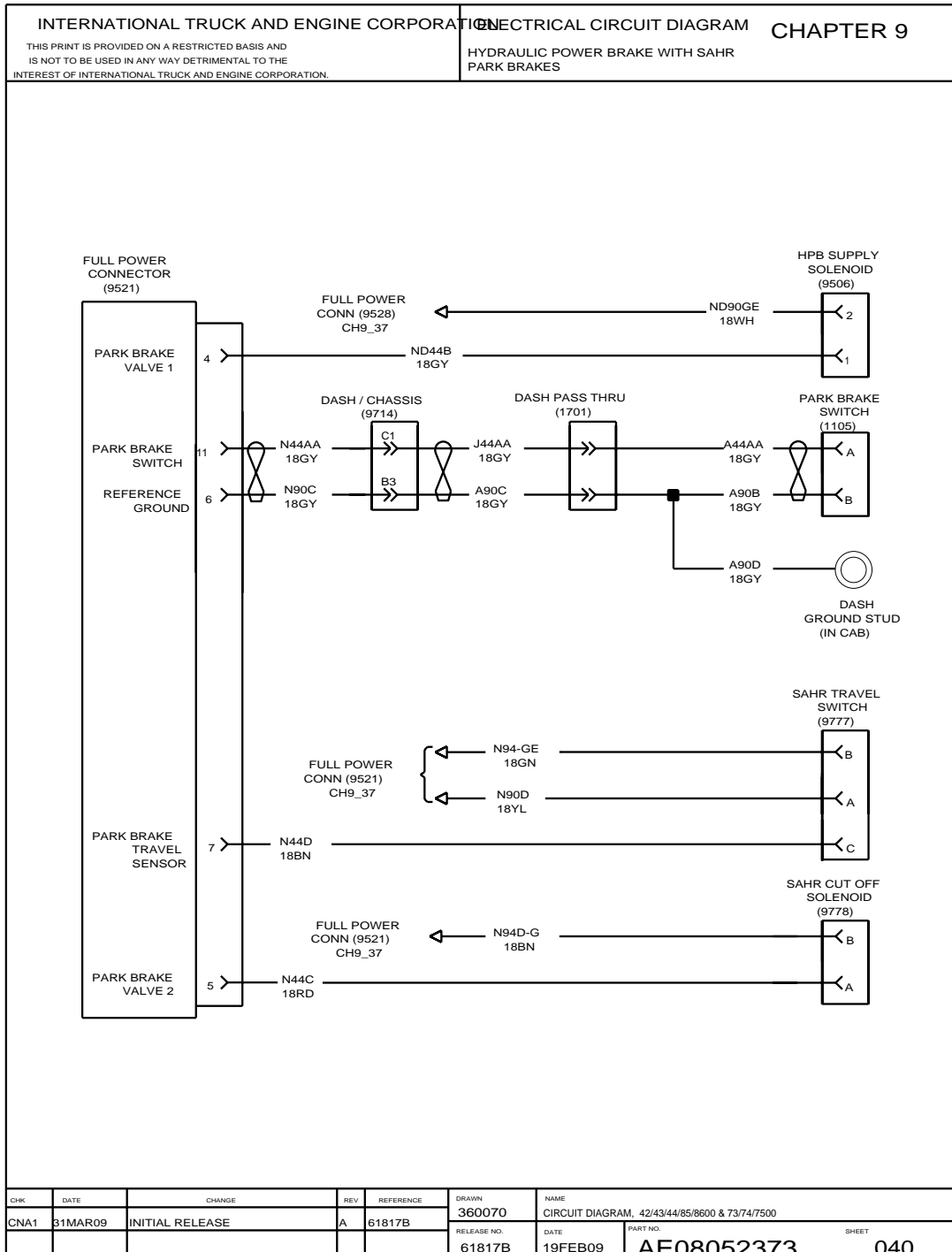


Figure 155 Hydraulic Power Brake with SAHR Park Brakes

9.42. AIR COMPRESSOR, P. 41

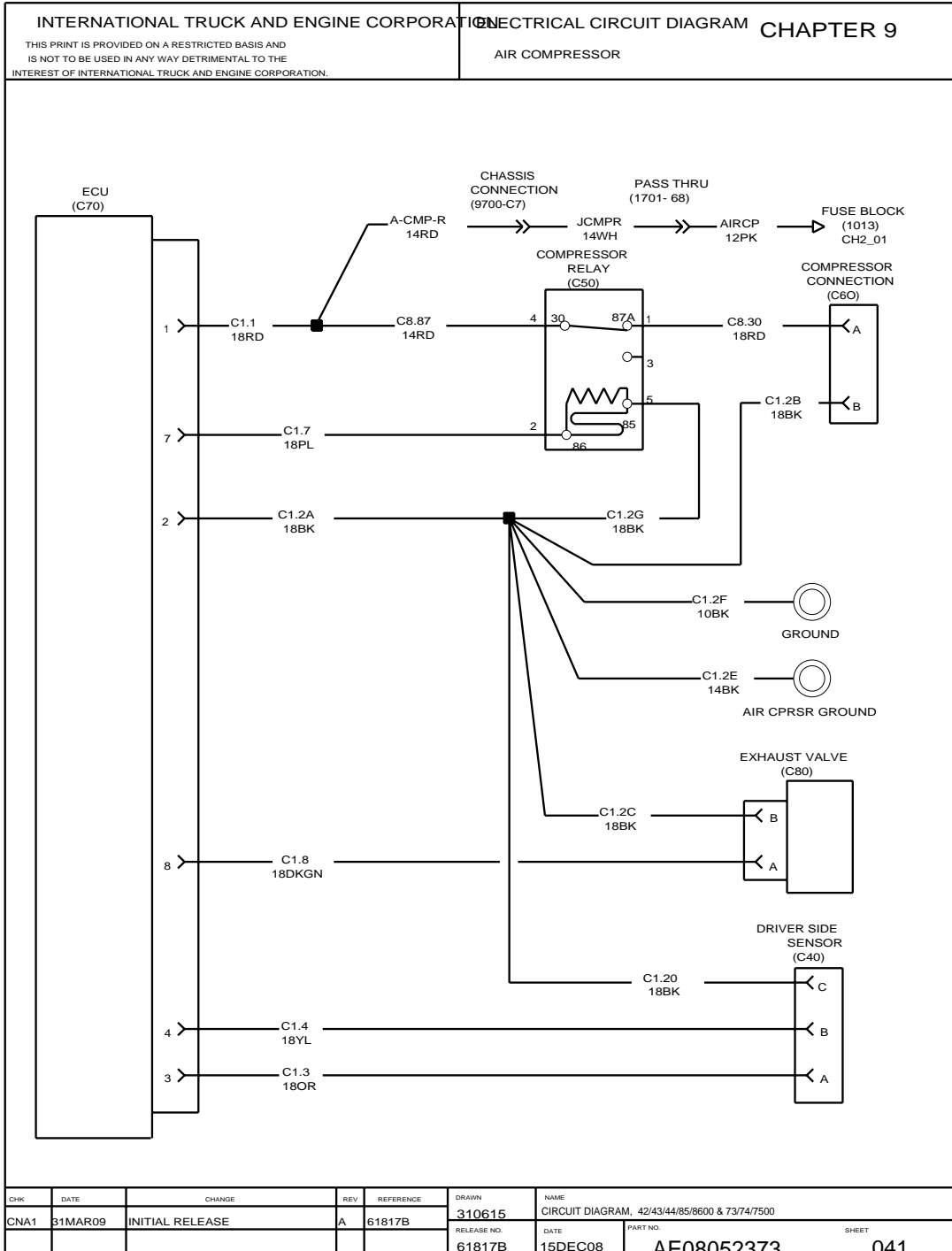


Figure 156 Air Compressor

9.43. ELECTRIC AIR COMPRESSOR, P. 42

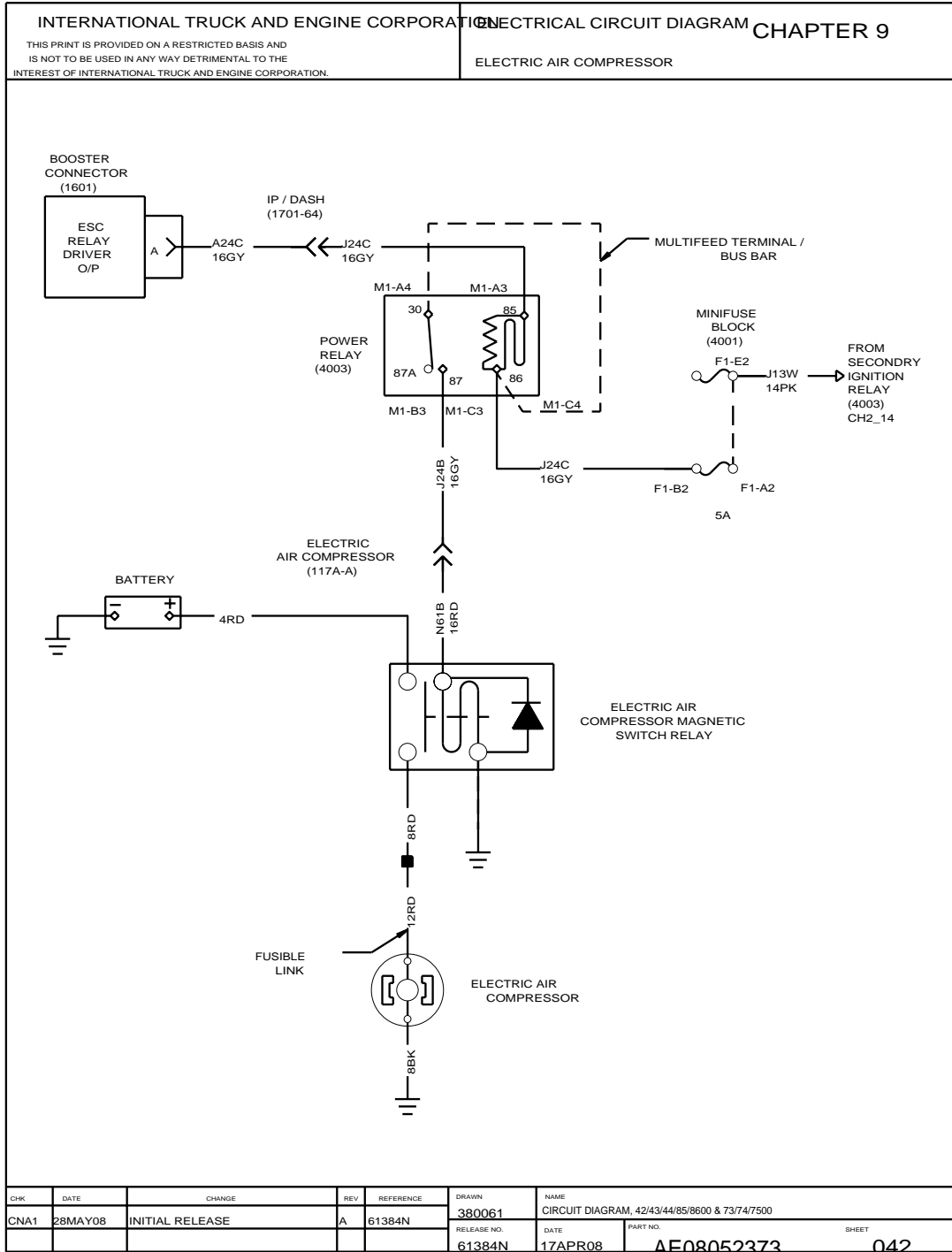


Figure 157 Electric Air Compressor

# 10. TRANSMISSIONS (CHAPTER 10)

## 10.1. ALLISON GEN4 LCT TRANSMISSION OR ALLISON 1000, 2000, 2400, P. 1

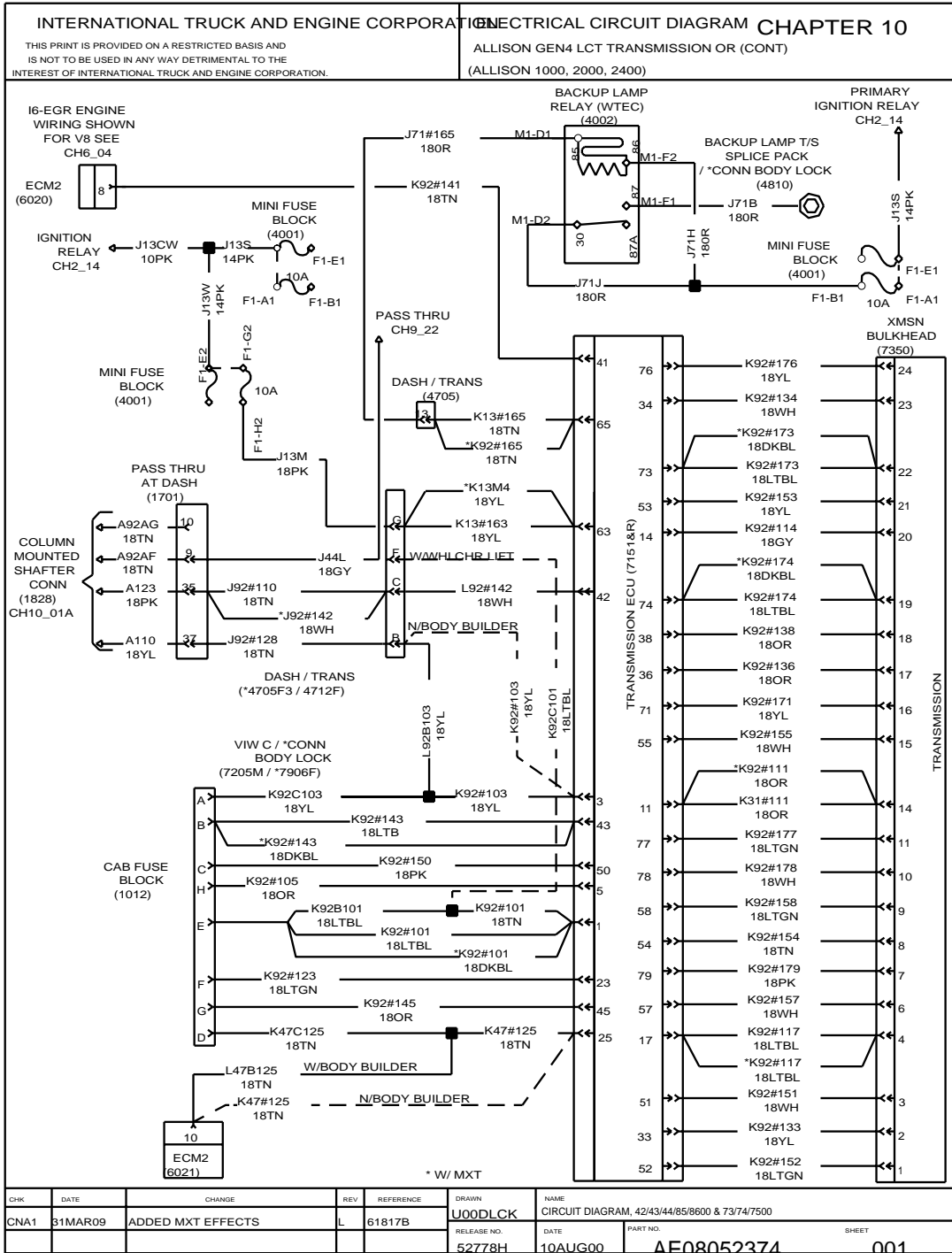


Figure 158 Allison GEN4 LCT Transmission or Allison 1000, 2000, 2400



10.2. ALLISON GEN4 LCT TRANSMISSION OR ALLISON 1000, 2000, 2400, P. 1A

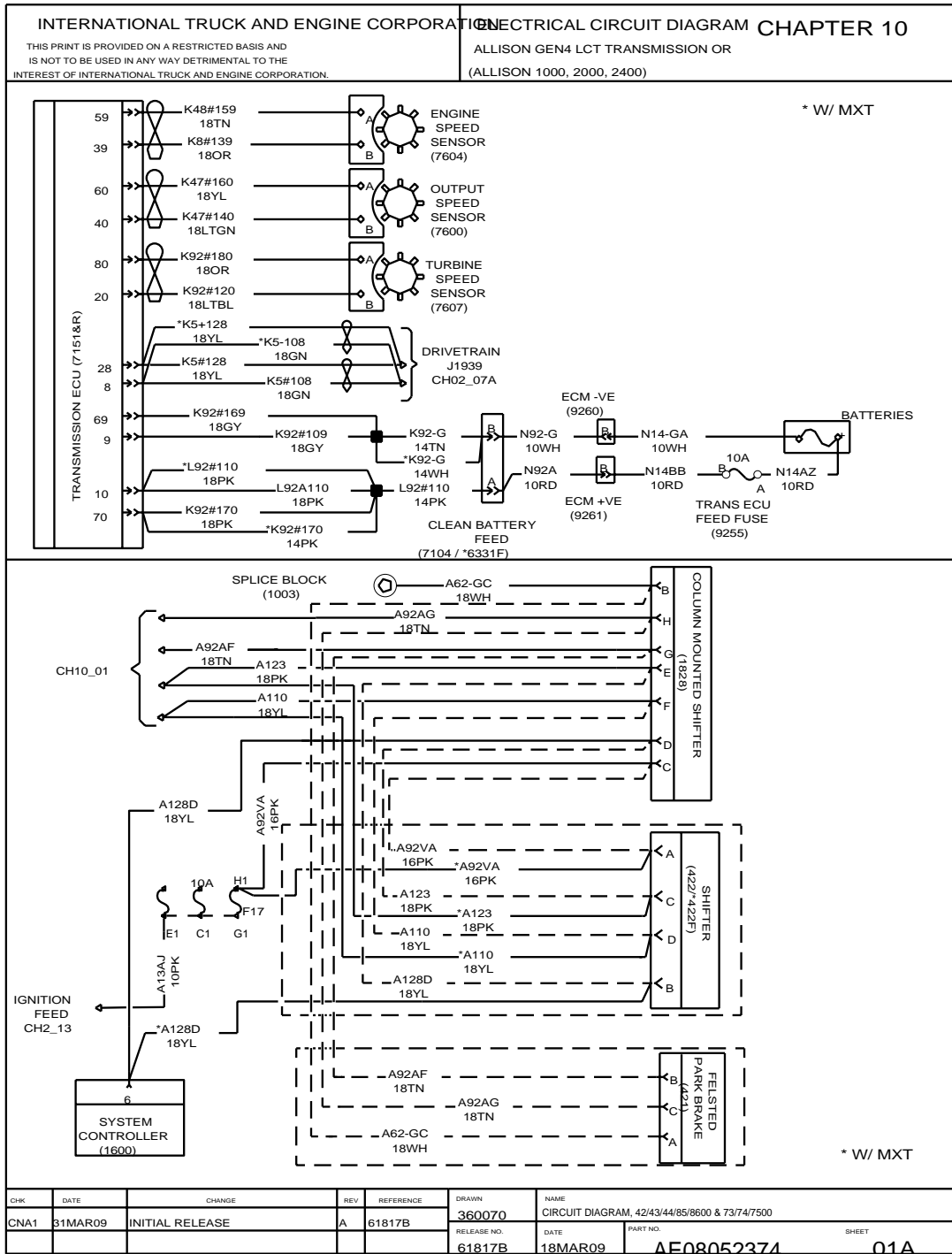


Figure 159 Allison GEN4 LCT Transmission or Allison 1000, 2000, 2400

10.3. TRANSMISSION, LCT WITH V8, P. 1B

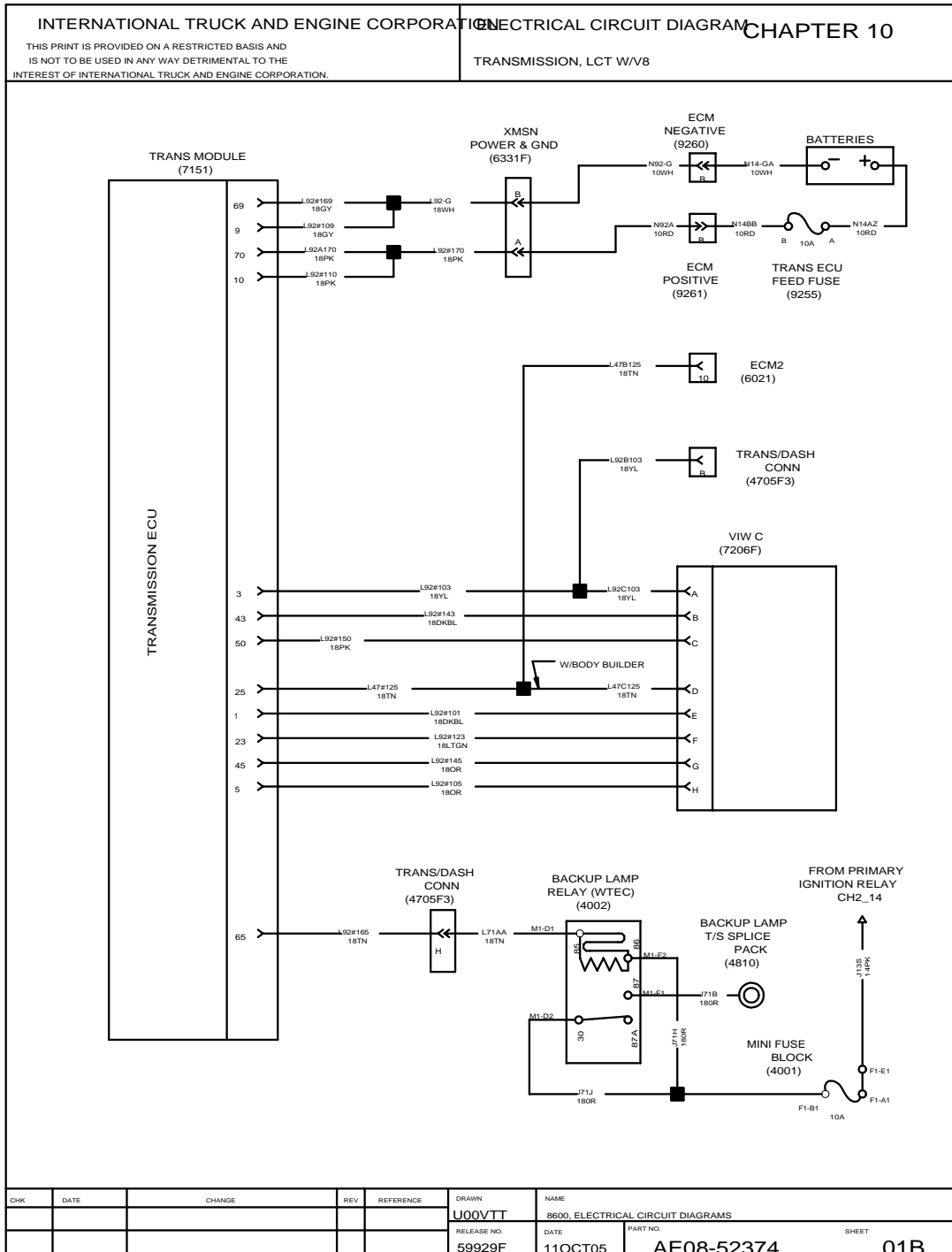


Figure 160 Transmission, LCT with V8

10.4. ALLISON MD TRANSMISSION, P. 2

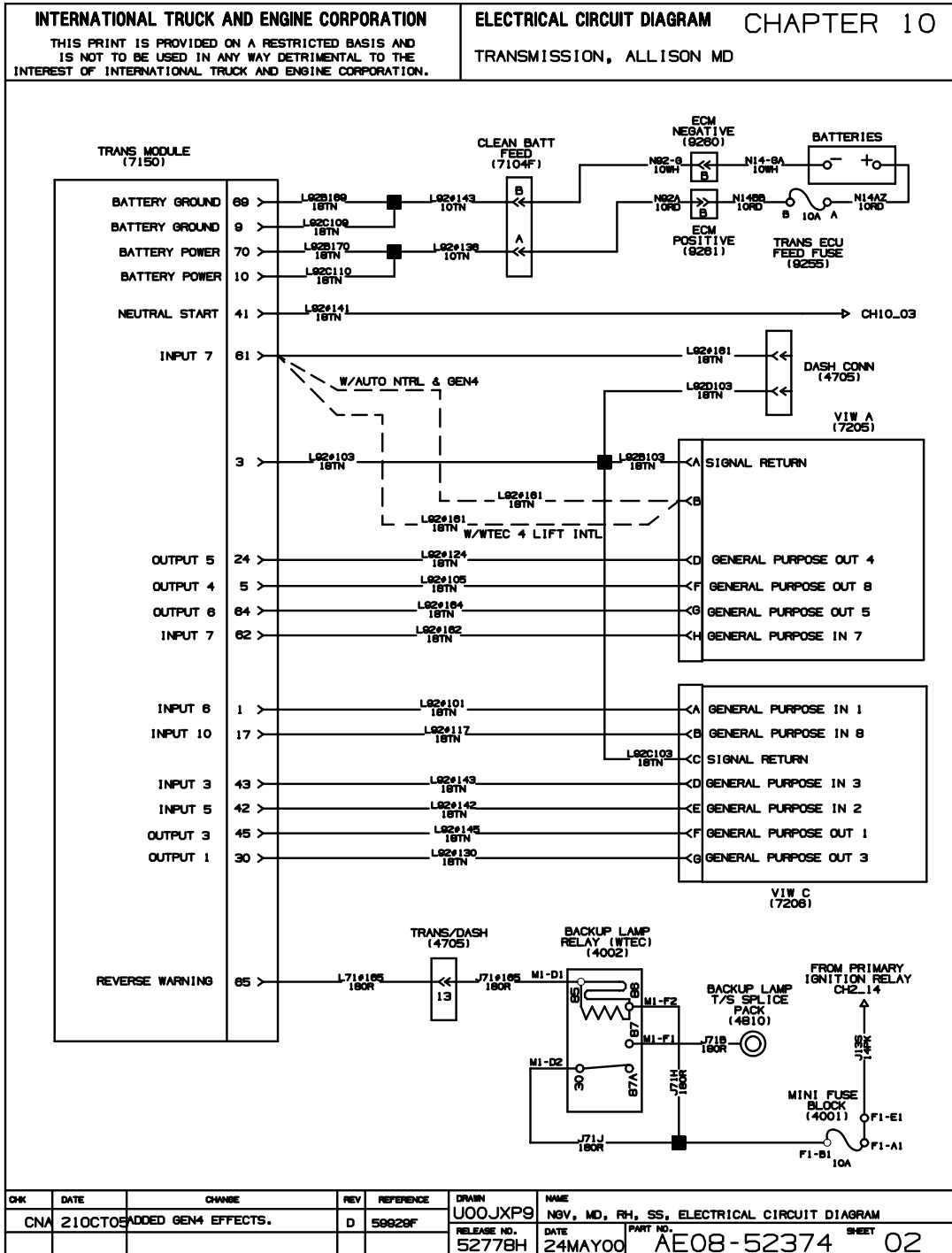


Figure 161 Allison MD Transmission

10.5. ALLISON GEN4 MD TRANSMISSION (WTEC), P. 3

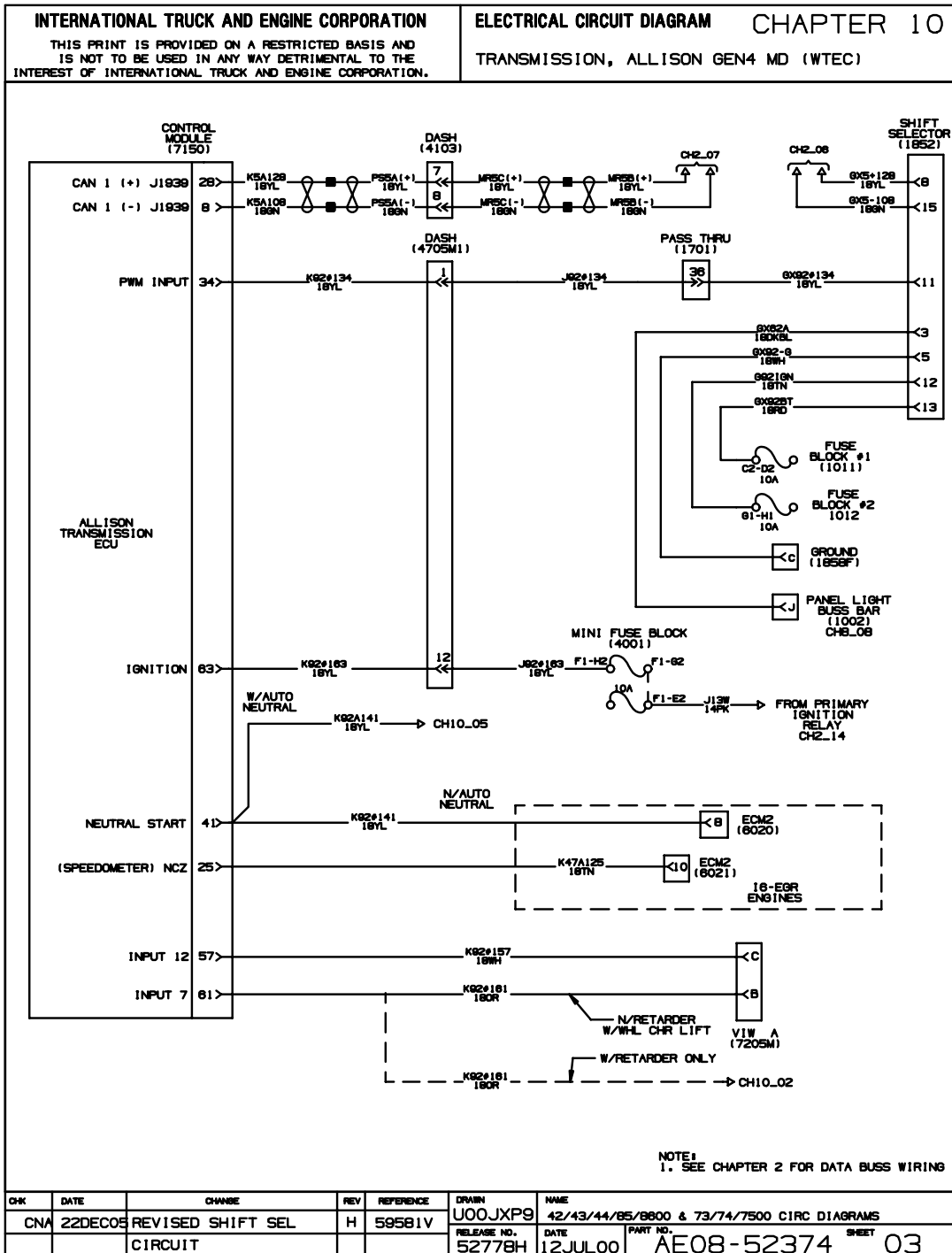


Figure 162 Allison MD Transmission (WTEC)

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

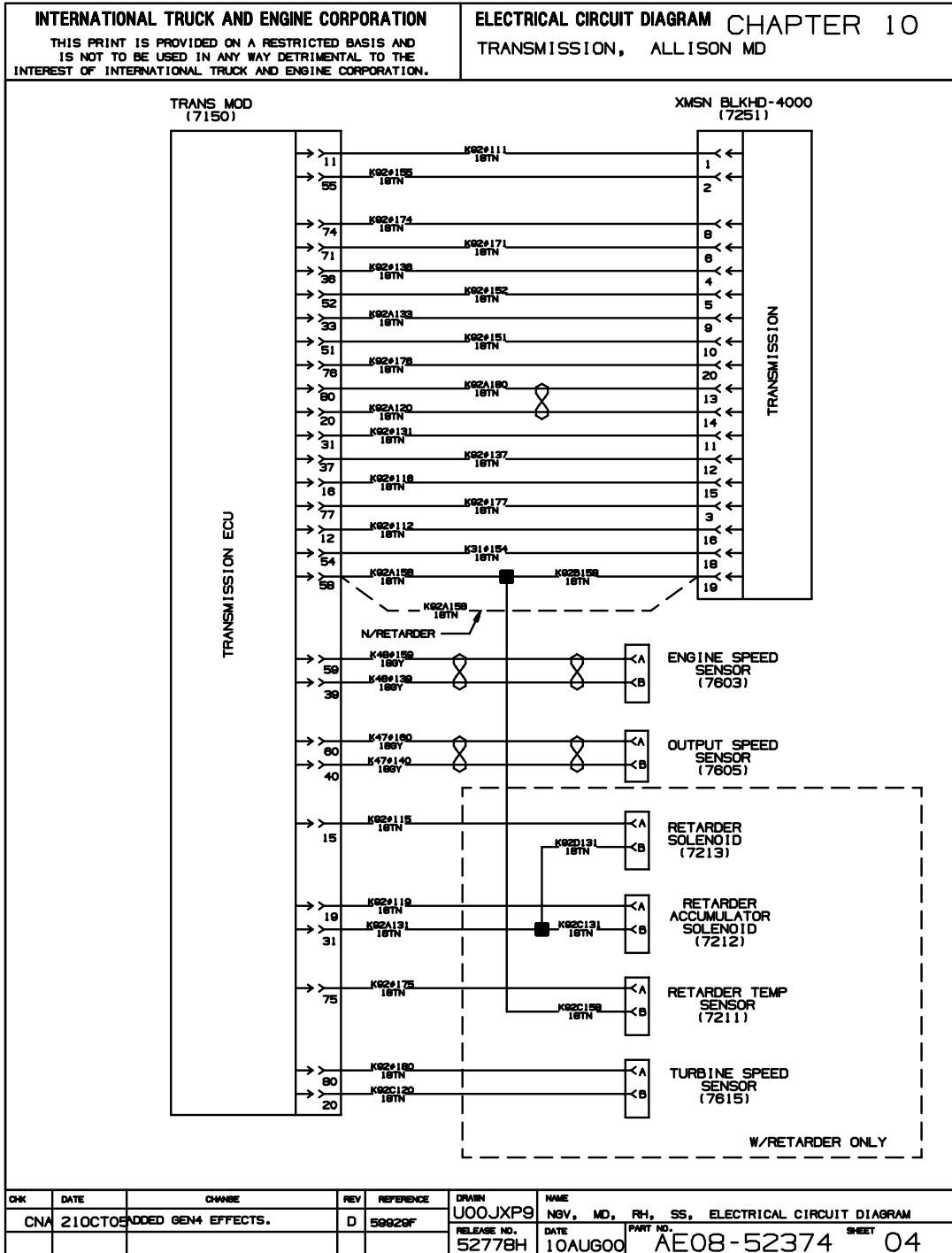


Figure 163 Allison MD Transmission (Cont.)

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

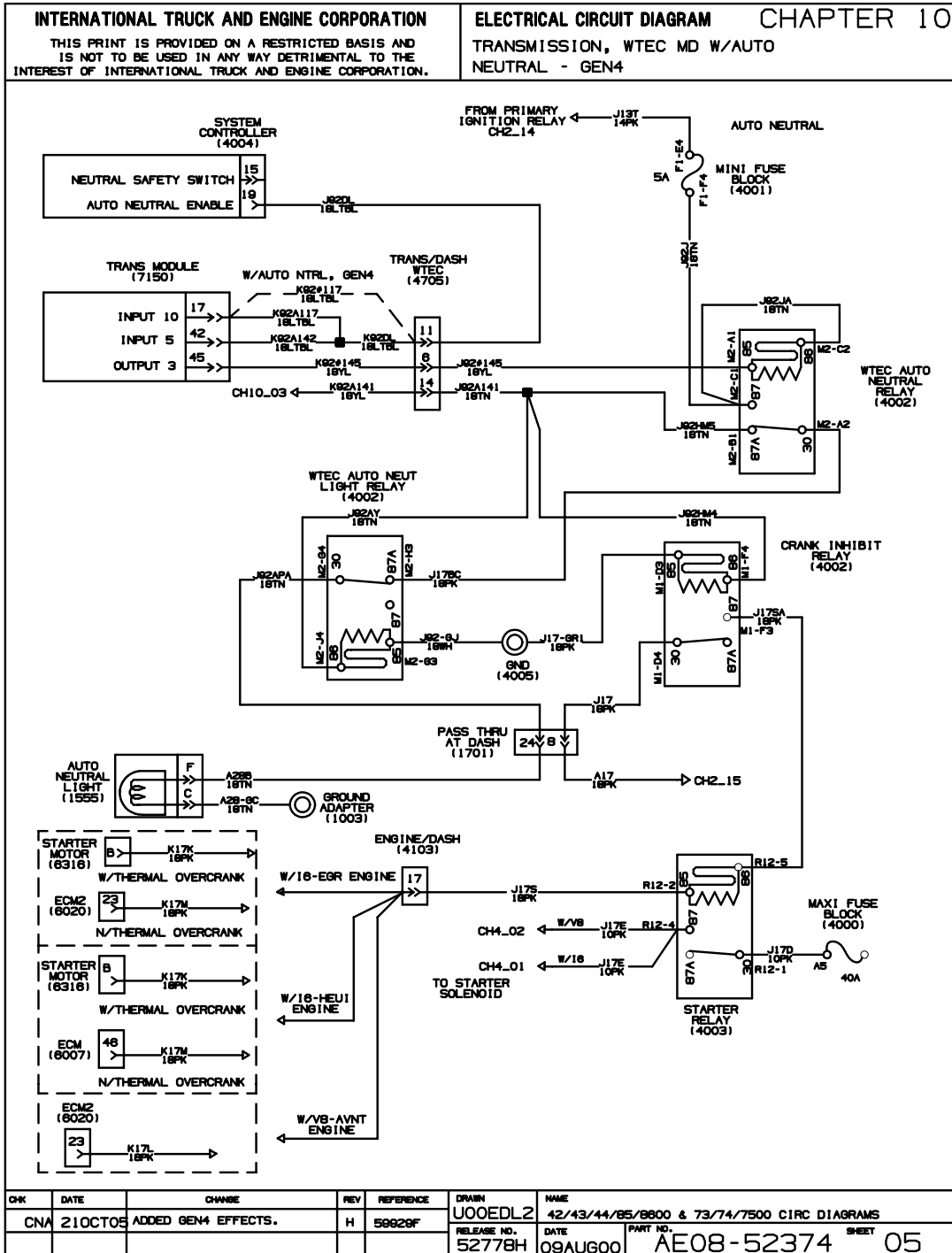


Figure 164 Transmission, WTEC MD W/Auto Neutral

10.8. TRANSMISSION, WTEC WITH V8, P. 5A

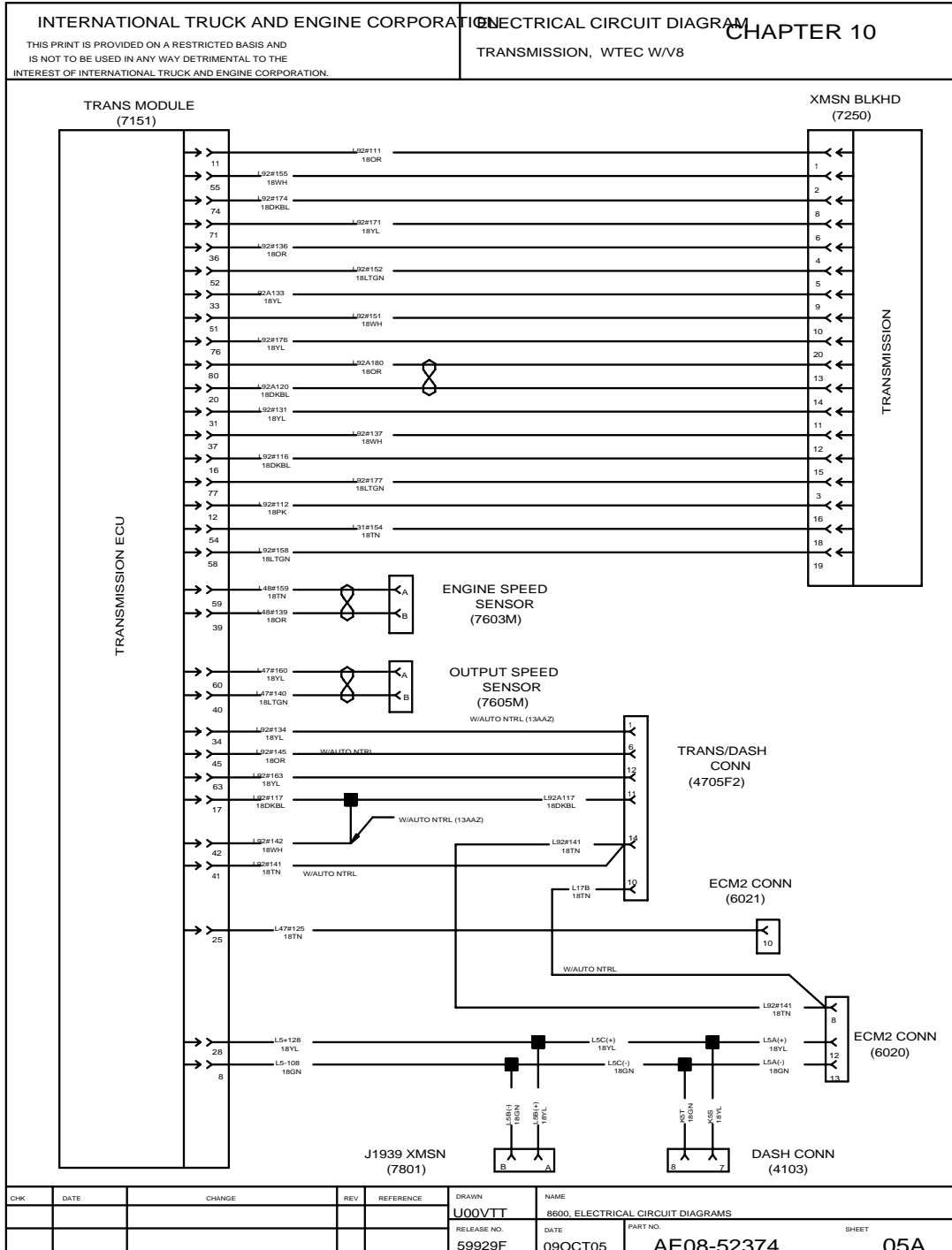


Figure 165 Transmission, WTEC with V8

10.9. TRANSMISSION, WTEC WITH V8, P. 5B

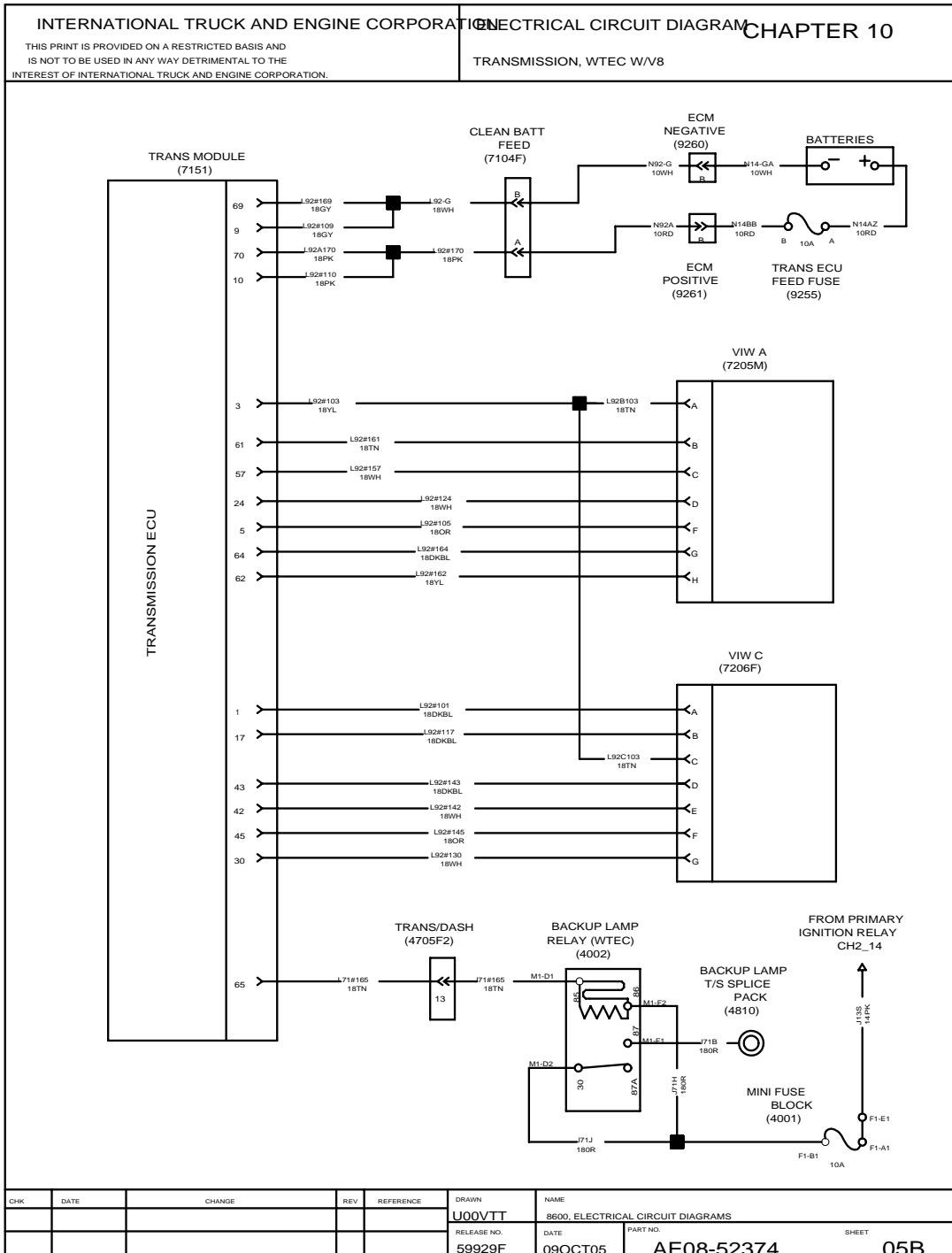


Figure 166 Transmission, WTEC with V8



10.10. EATON AUTOSHIFT TRANSMISSION, P. 6

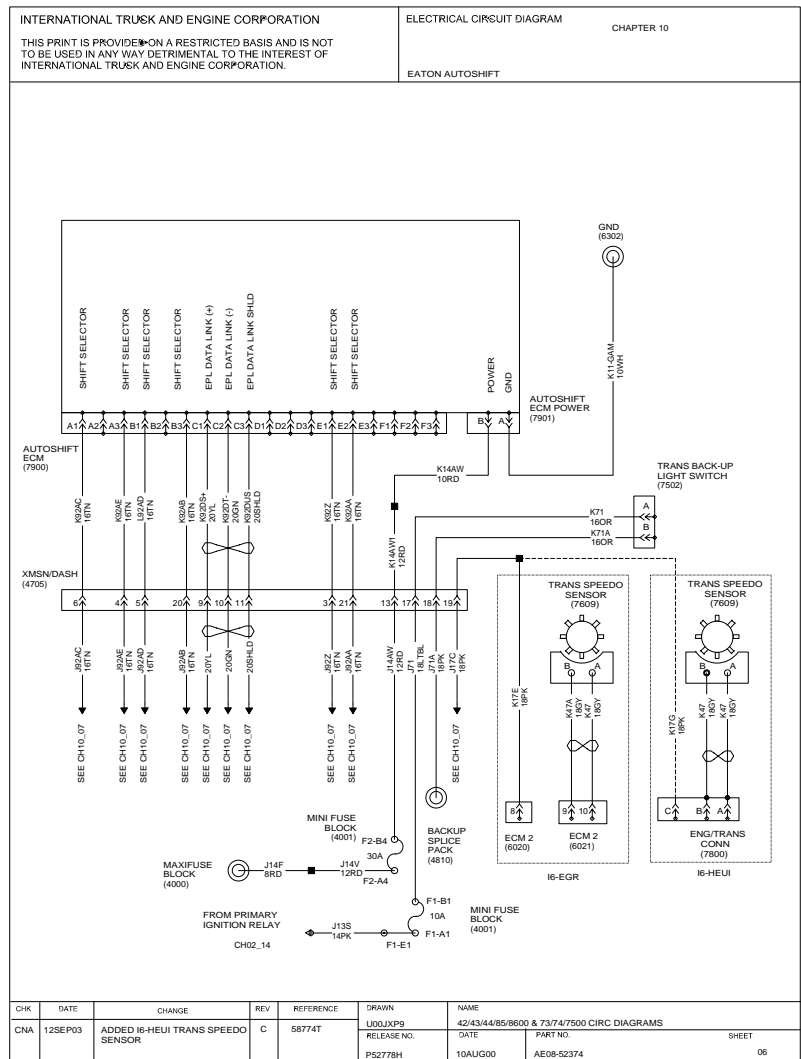


Figure 167 Eaton Autoshift Transmission

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

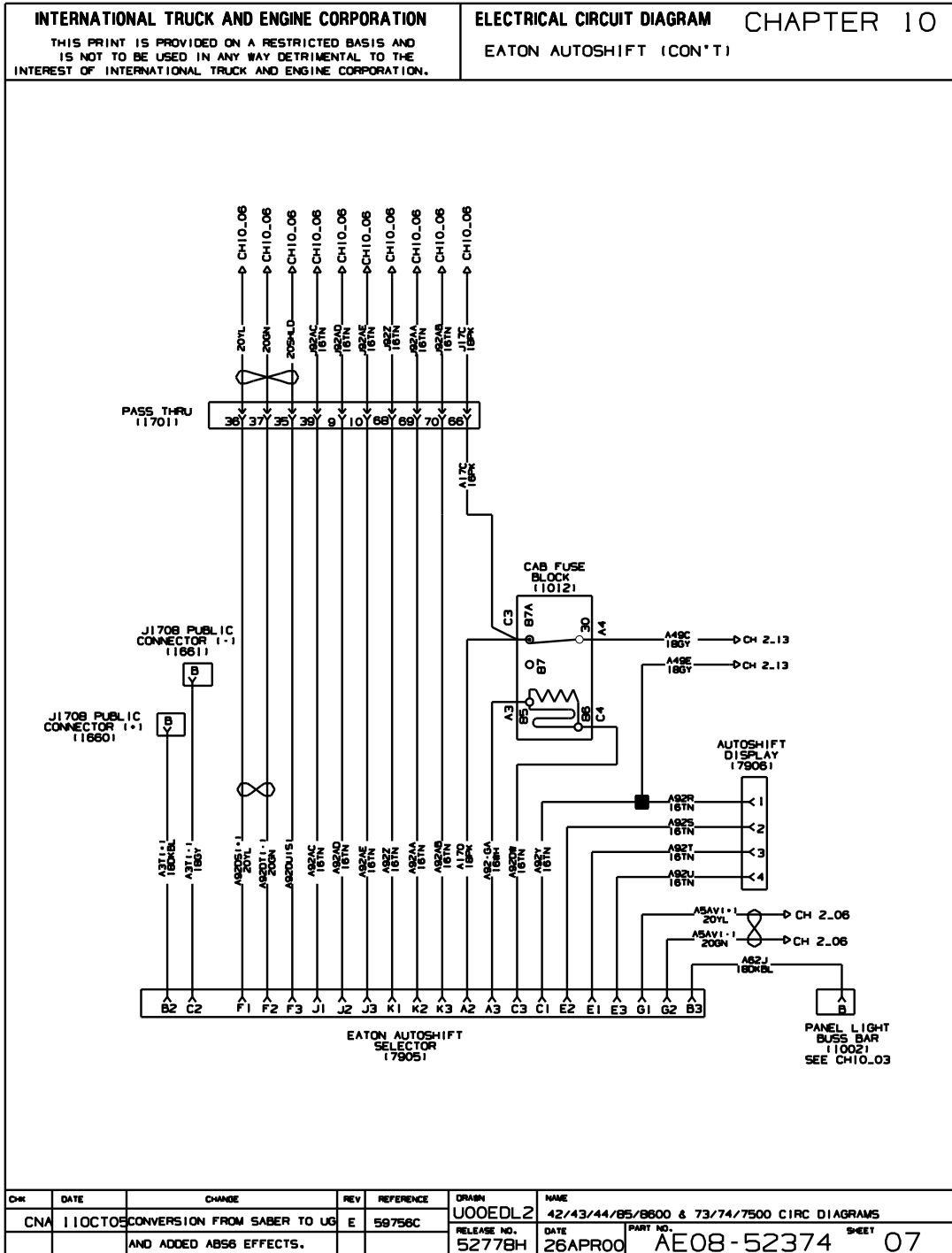


Figure 168 Eaton Autoshift Transmission (Cont.)

10.12. EATON LIGHTNING TRANSMISSION, P. 8

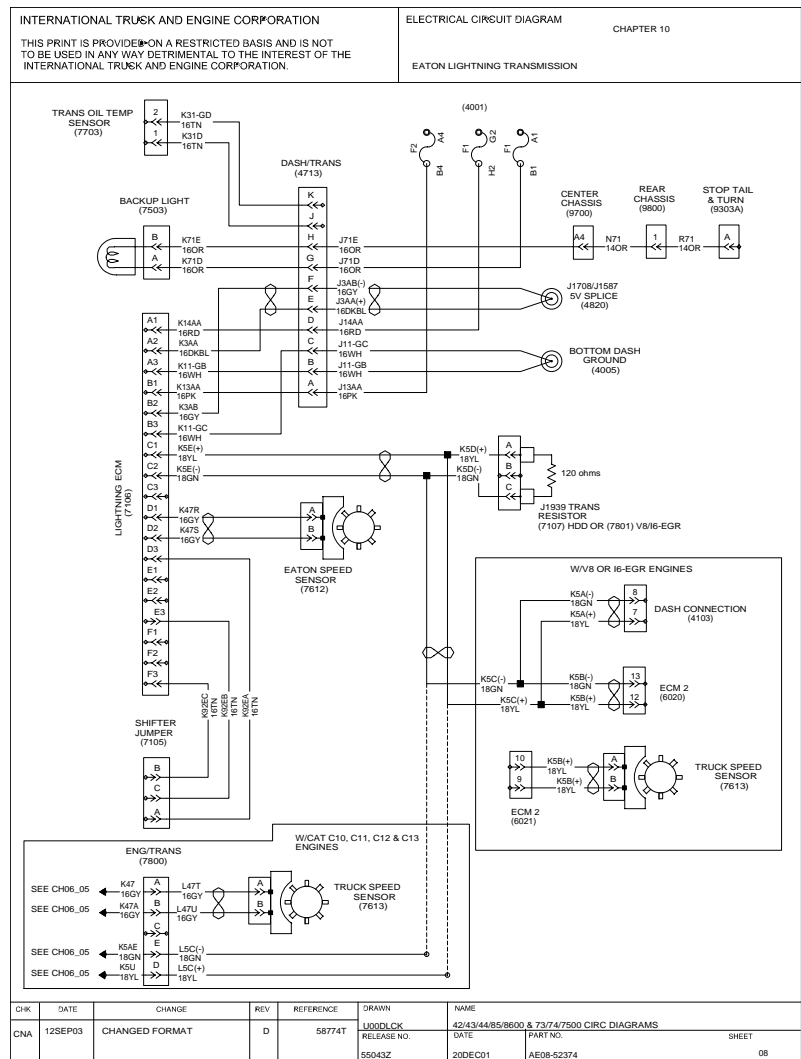


Figure 169 Eaton Lightning Transmission

10.13. ALLISON HD TRANSMISSION, P. 9

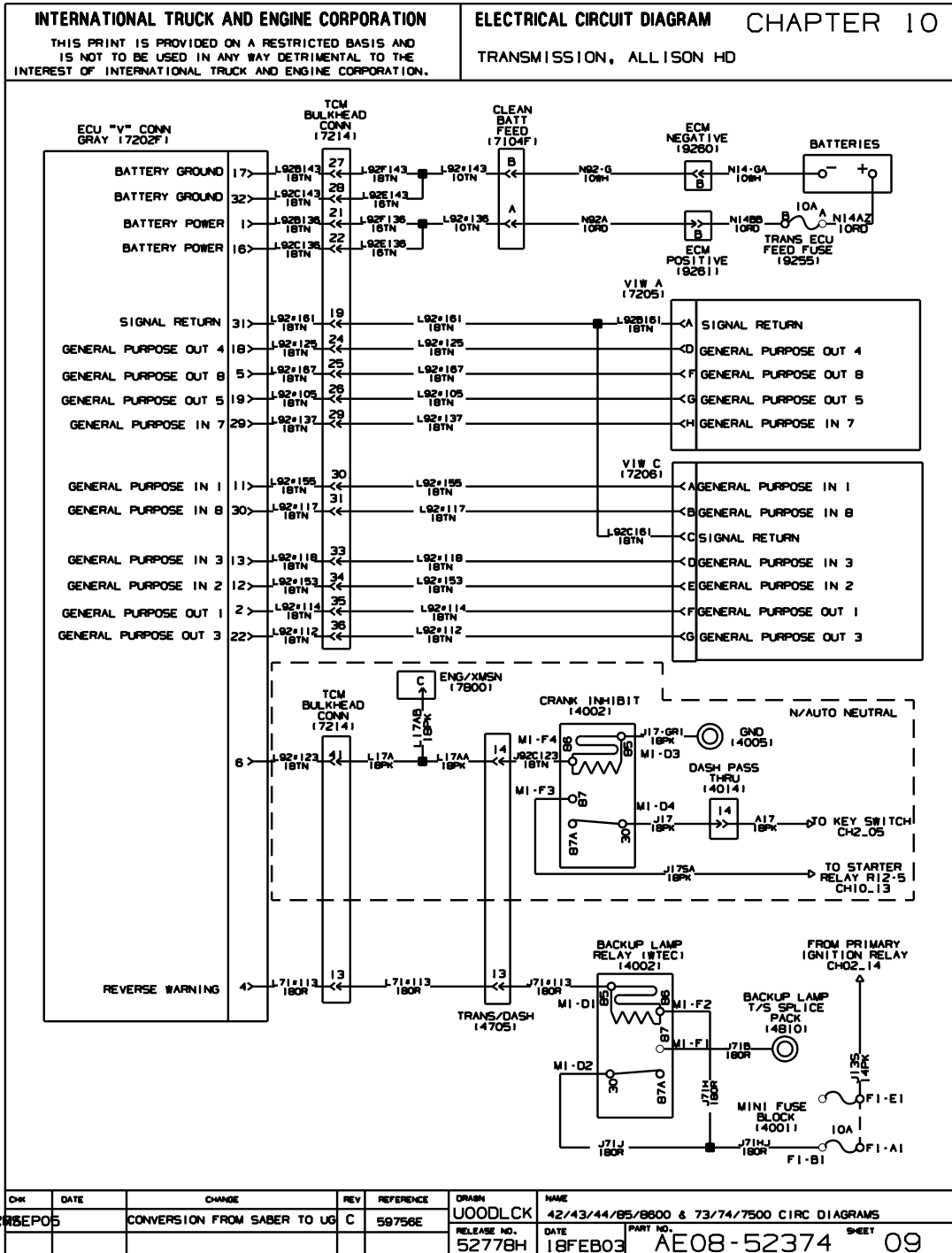


Figure 170 Allison HD Transmission

10.14. ALLISON HD TRANSMISSION, P. 10

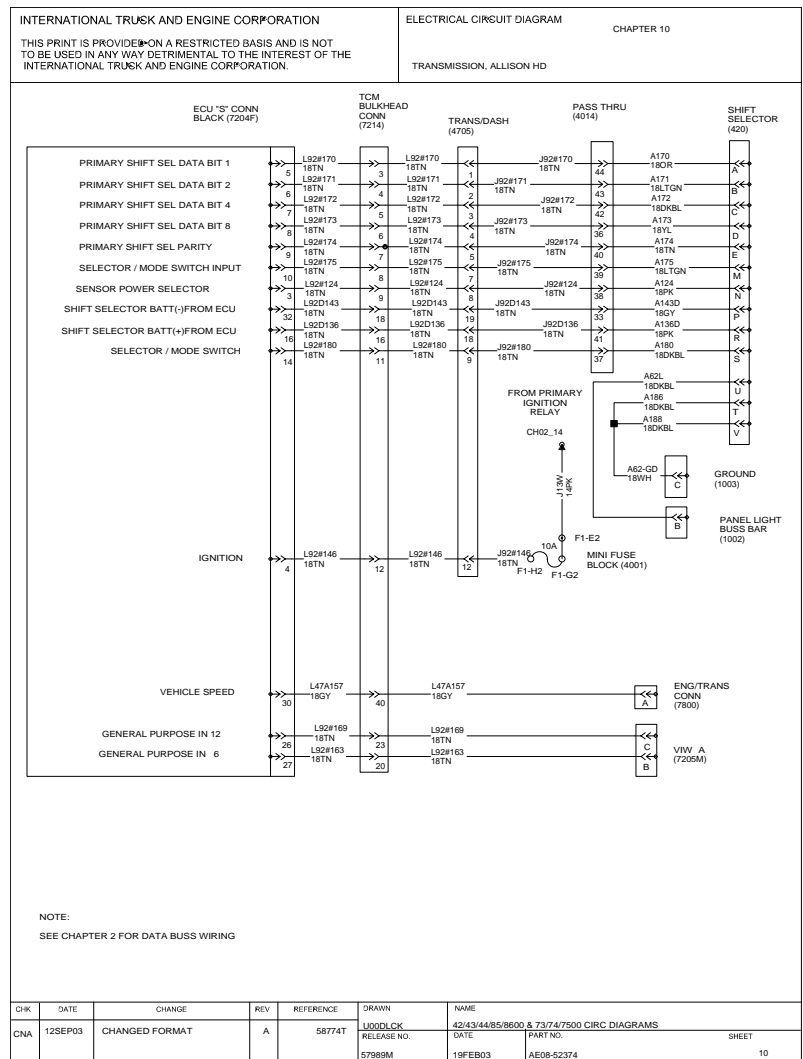


Figure 171 Allison HD Transmission (Cont.)

10.15. ALLISON HD TRANSMISSION, P. 11

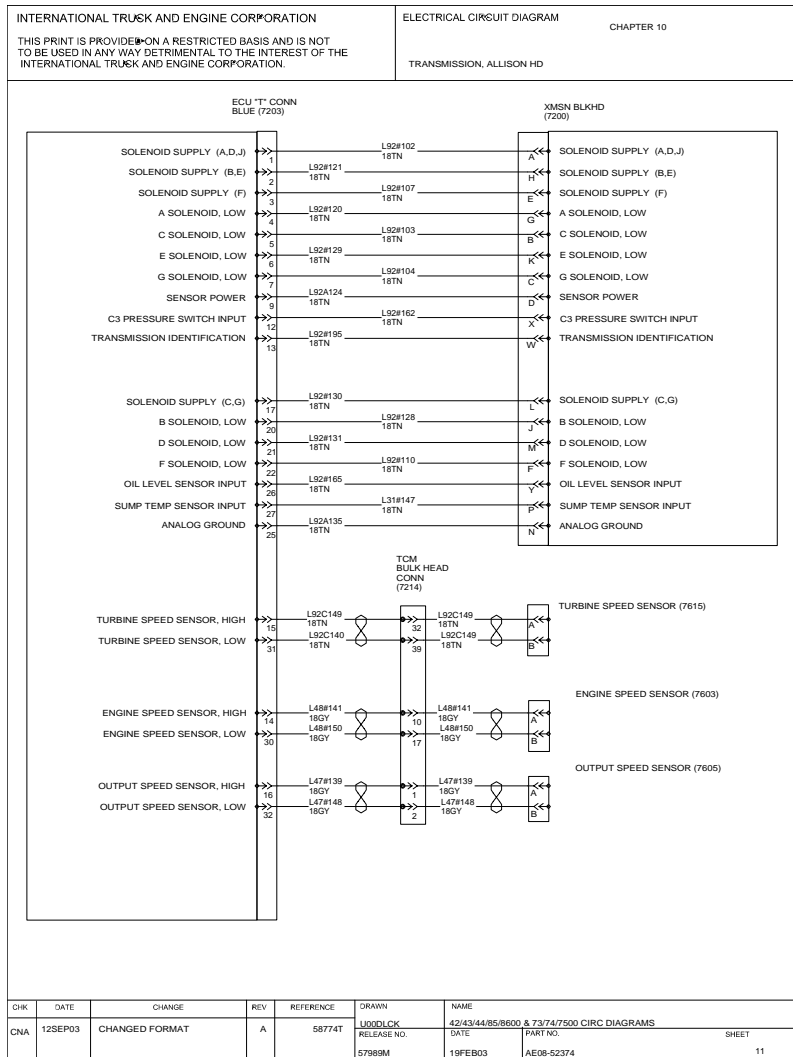


Figure 172 Allison HD Transmission (Cont.)

10.16. ALLISON HD TRANSMISSION WITH AUTO NEUTRAL, P. 12

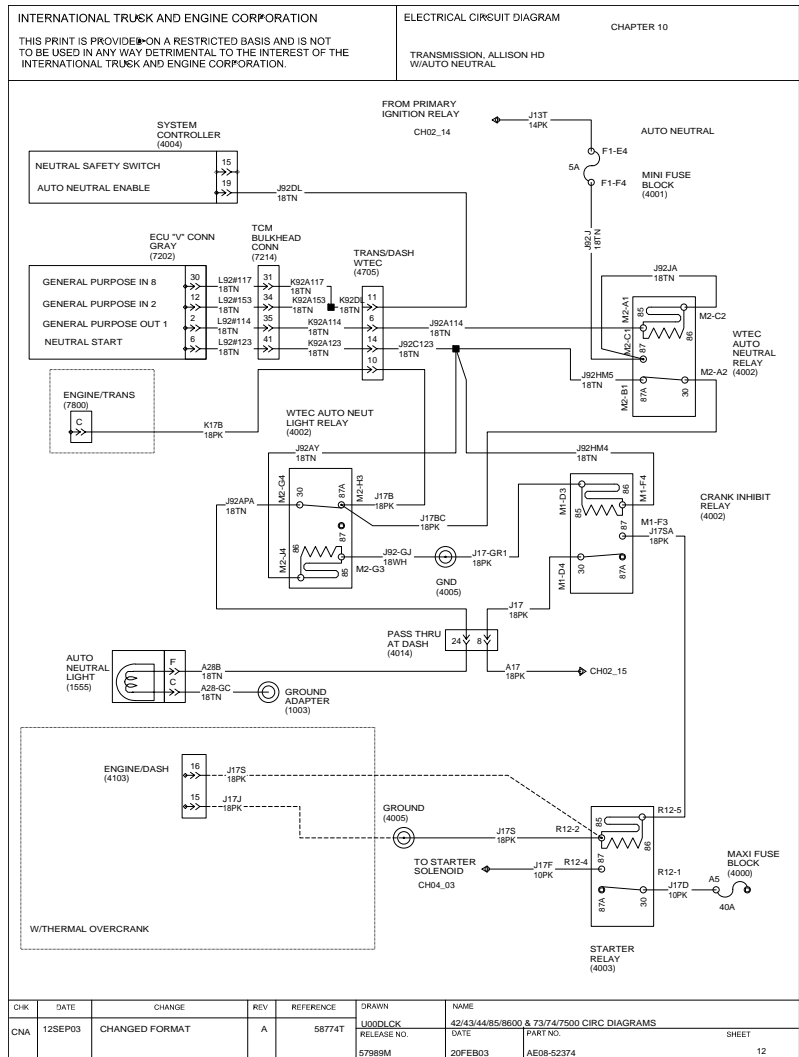


Figure 173 Allison HD Transmission With Auto Neutral

10.17. ALLISON HD TRANSMISSION WITH AUTO NEUTRAL — GEN4, P. 13

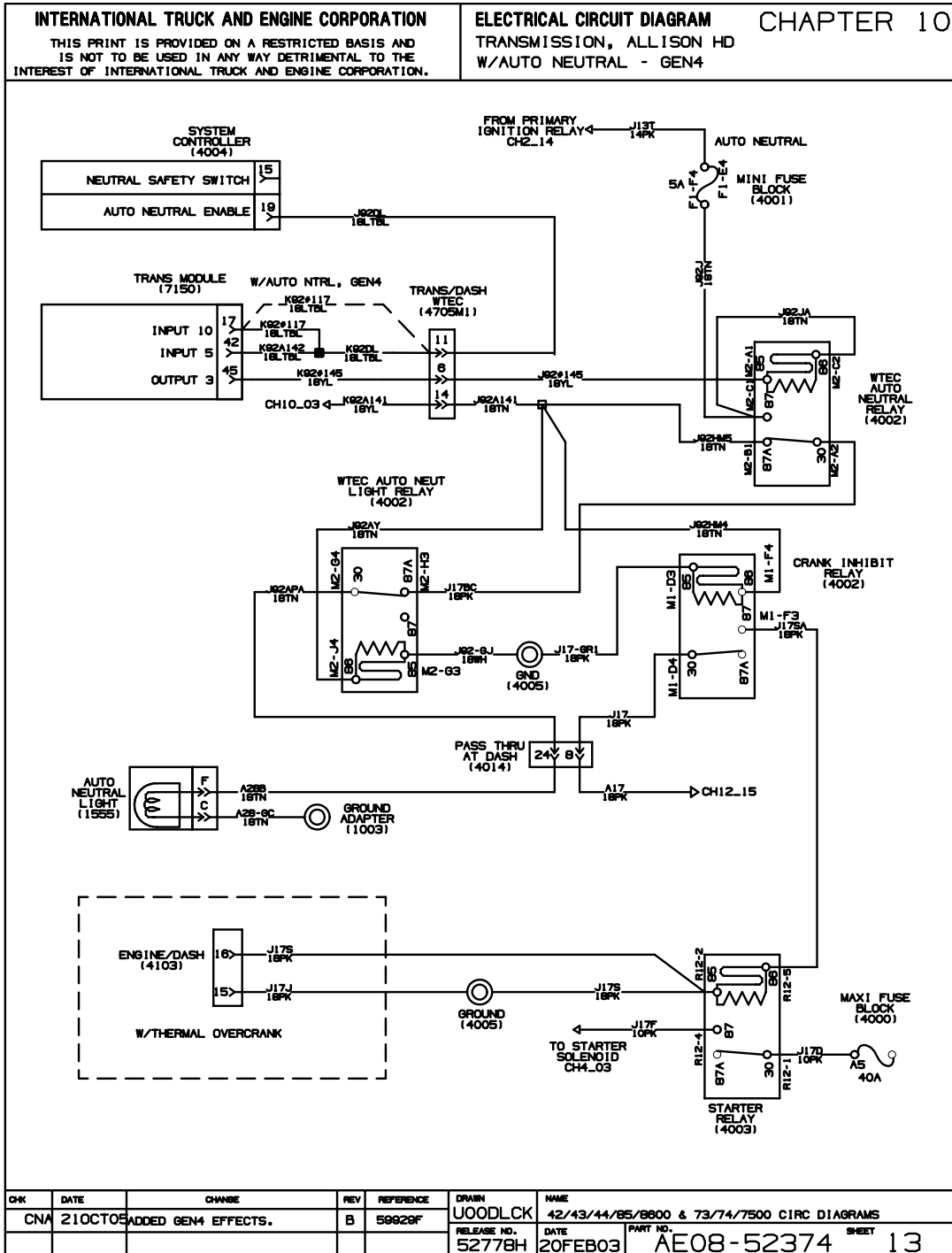


Figure 174 Allison HD Transmission With Auto Neutral — GEN4



10.18. ALLISON LCT TRANSMISSION (ALLISON 1000, 2000, 2400) WITH I6 HEUI, P. 14

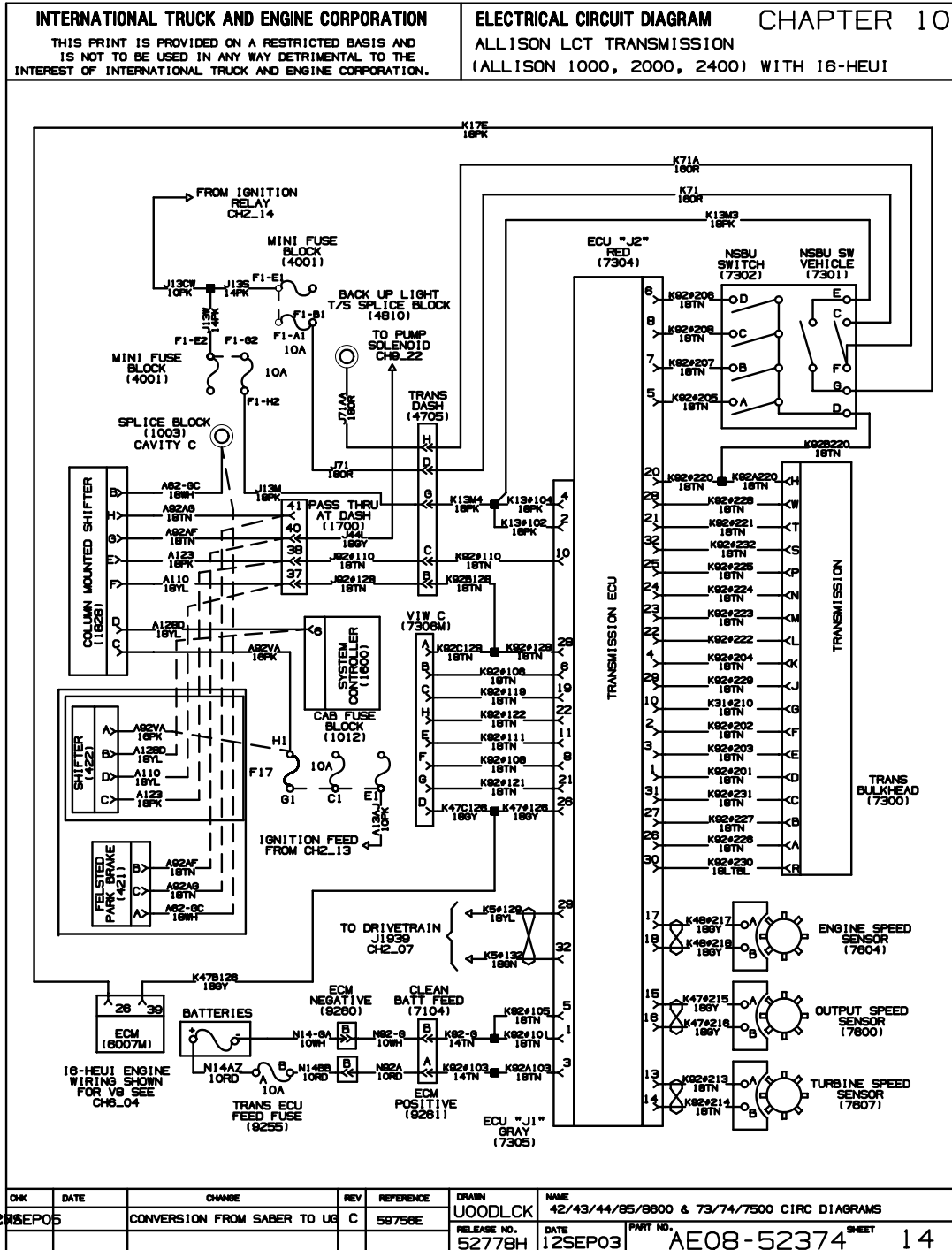


Figure 175 Allison LCT Transmission (Allison 1000, 2000, 2400) with I6 HEUI

10.19. TRANSMISSION RETARDER CONTROL WIRING WITH MD XMSN, HARD WIRED EFFECTS, P. 15

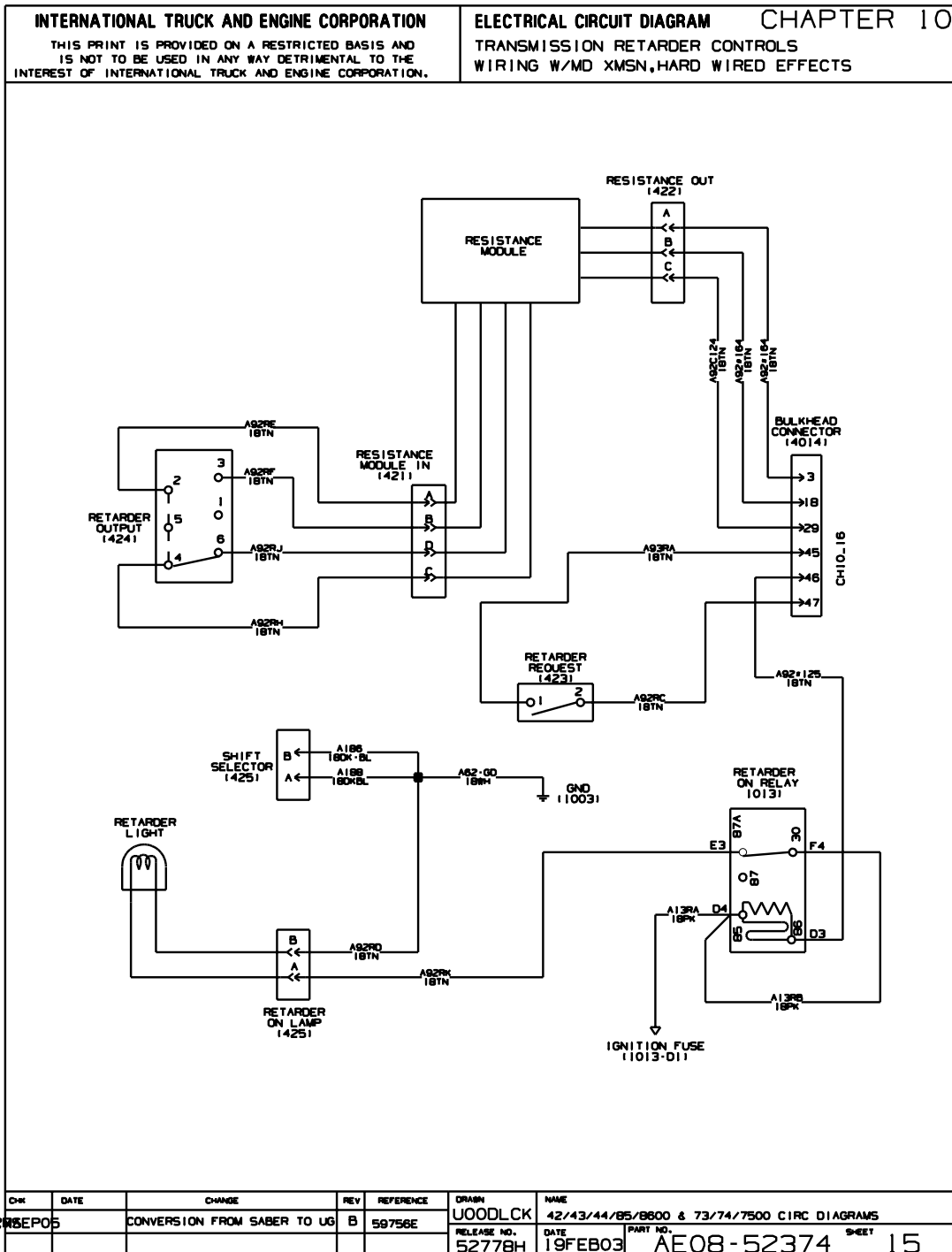


Figure 176 Transmission Retarder Control Wiring with MD Transmission, Hard Wired Effects

**10.20. TRANSMISSION RETARDER CONTROL WIRING WITH MD XMSN, HARD WIRED EFFECTS, P. 16**

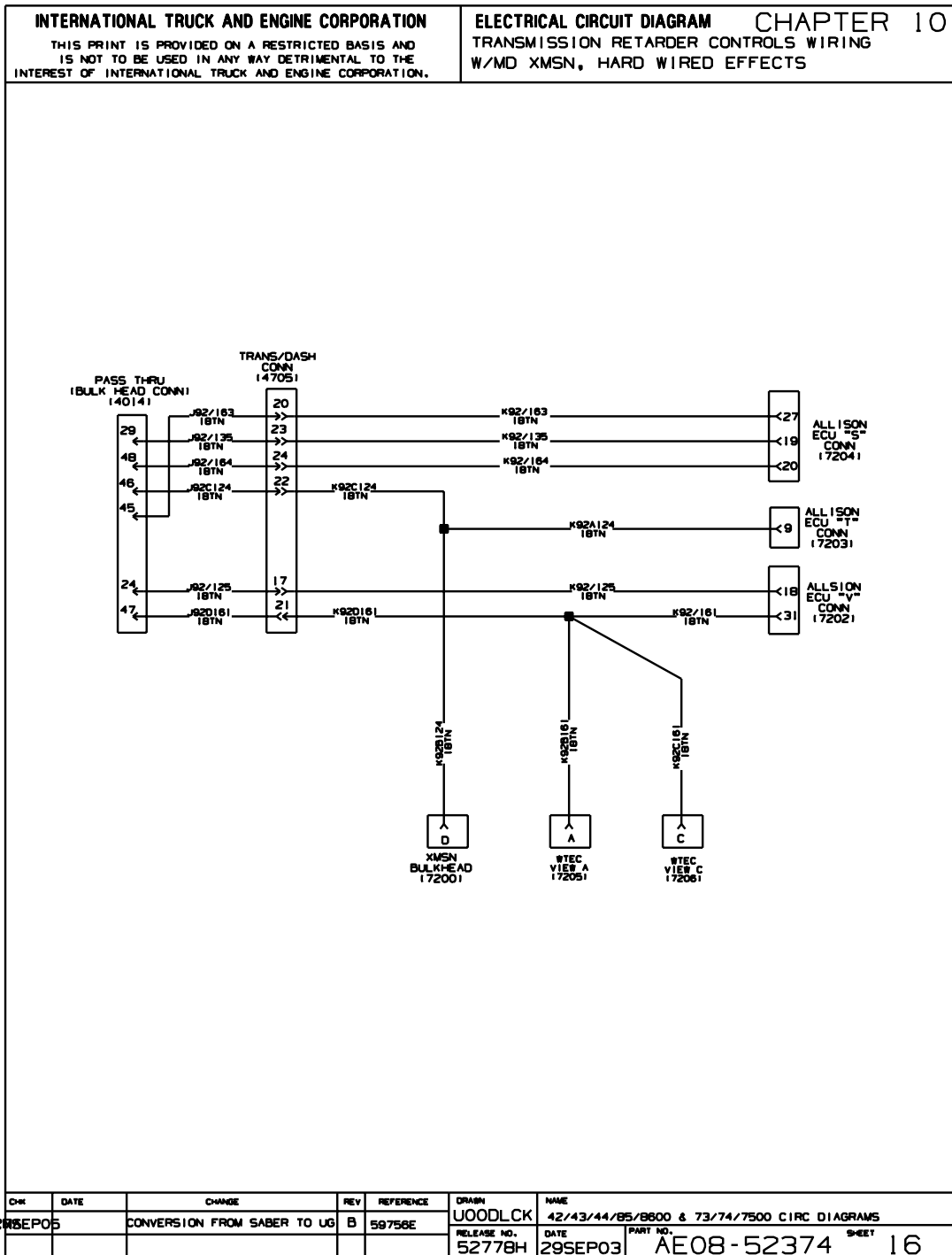


Figure 177 Transmission Retarder Control Wiring with MD Transmission, Hard Wired Effects

10.21. EATON ULTRASHIFT/DM2, P. 17

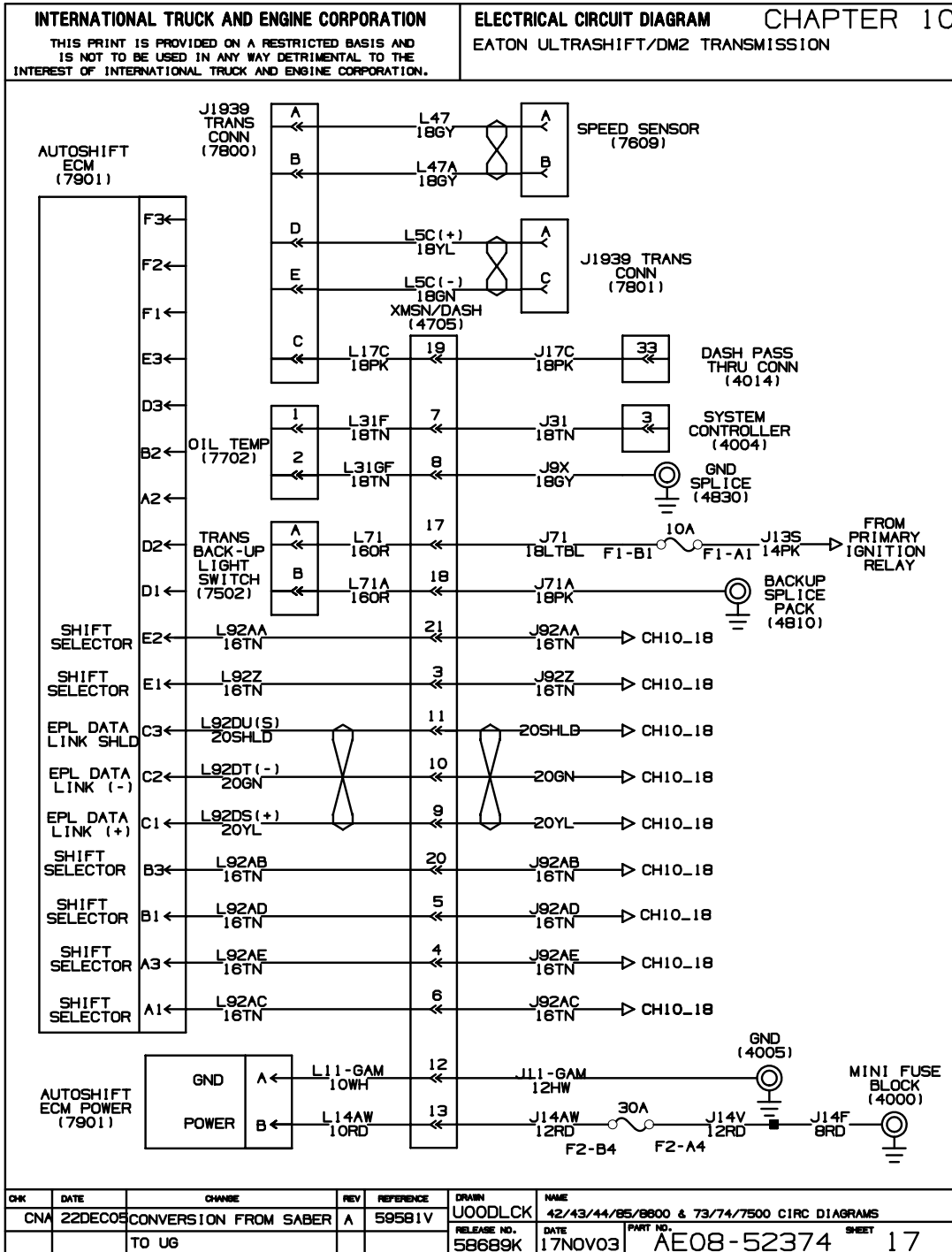


Figure 178 Eaton Ultrashift/DM2

10.22. EATON ULTRASHIFT/DM2 (CONT.), P. 18

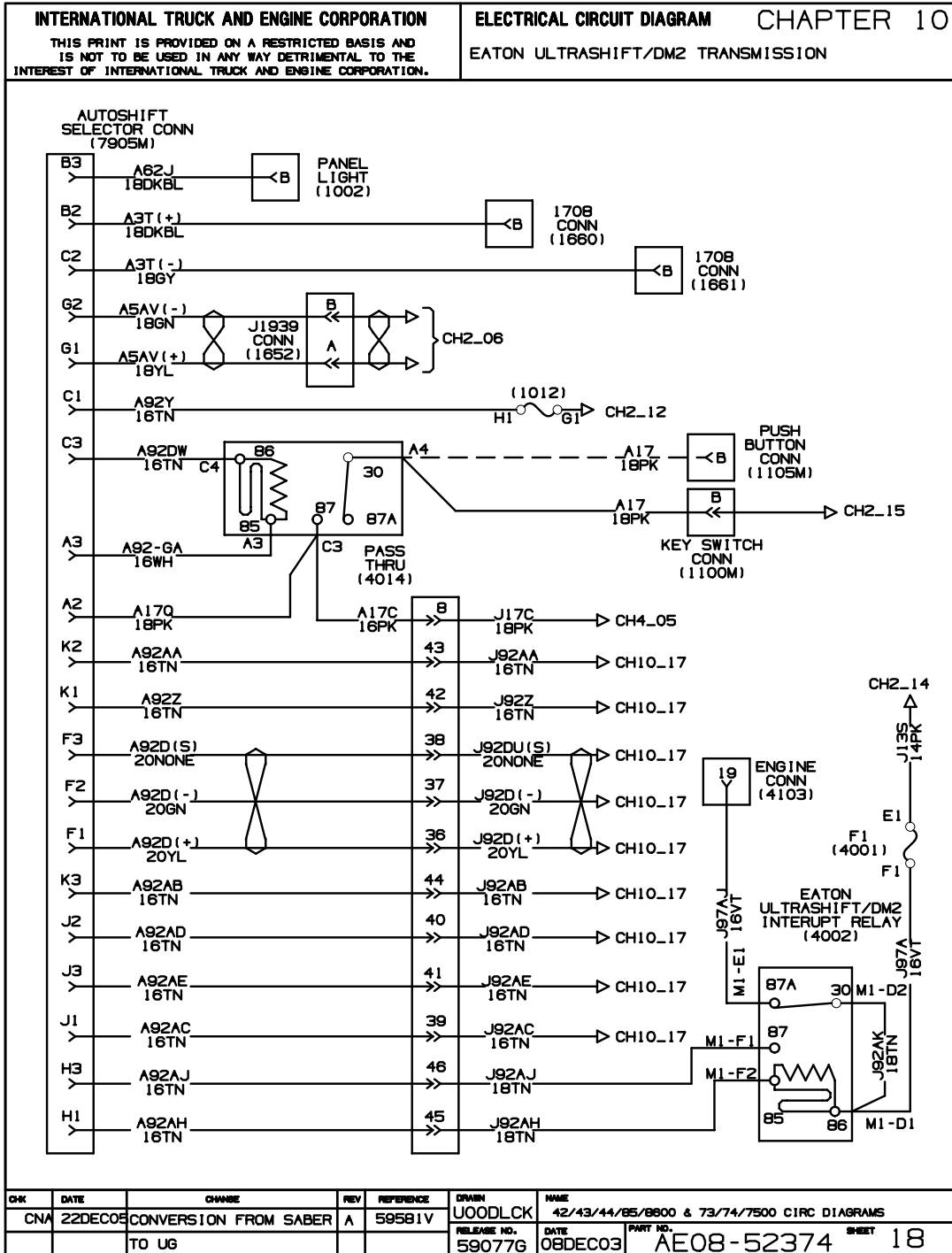


Figure 179 Eaton Ultrashift/DM2 (Cont.)

10.23. WTEC MD TRANSMISSION WITH AUTO NEUTRAL, P. 19

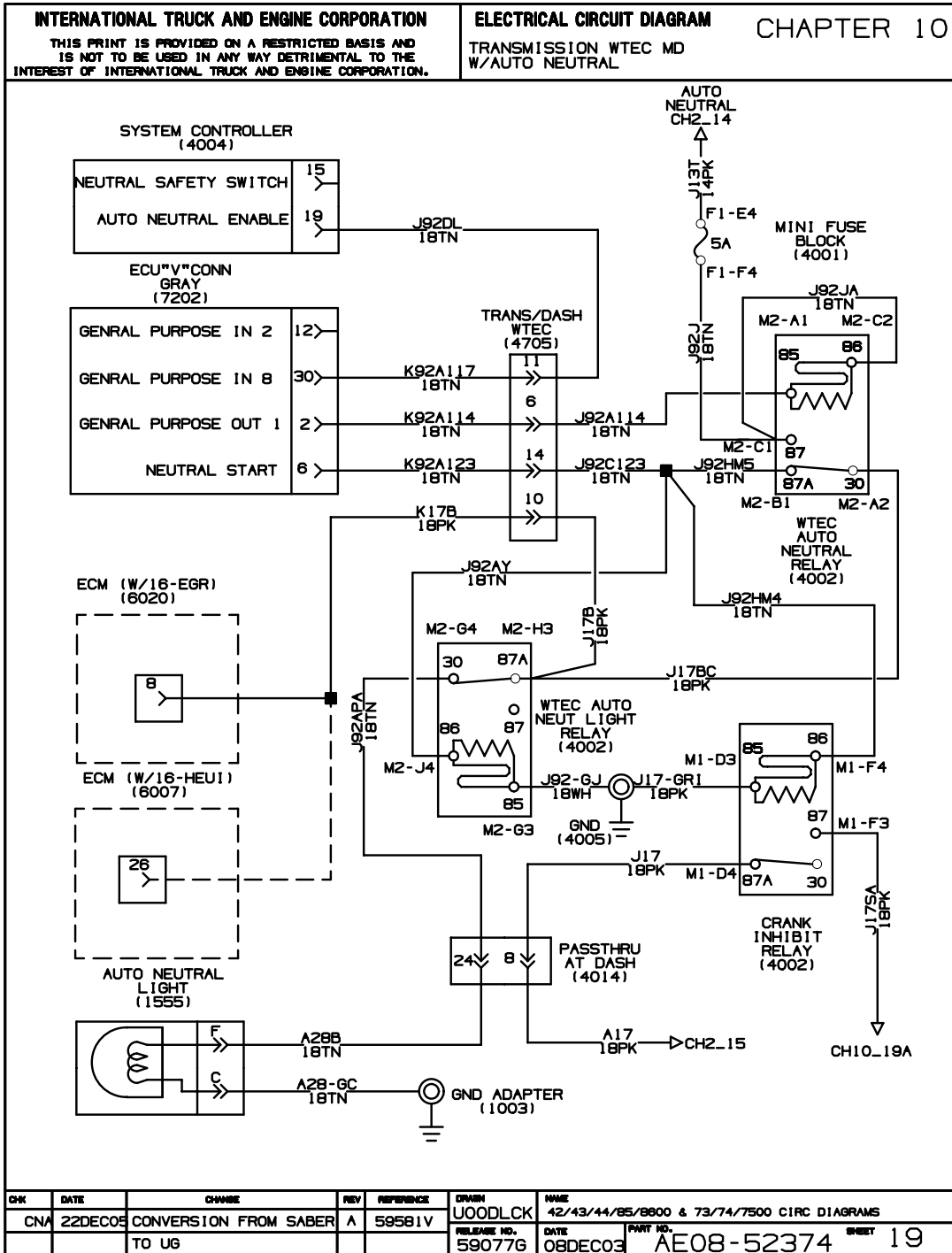


Figure 180 WTEC MD Transmission with Auto Neutral

10.24. WTEC MD TRANSMISSION WITH AUTO NEUTRAL AND WITH 0013WUA, P. 19A

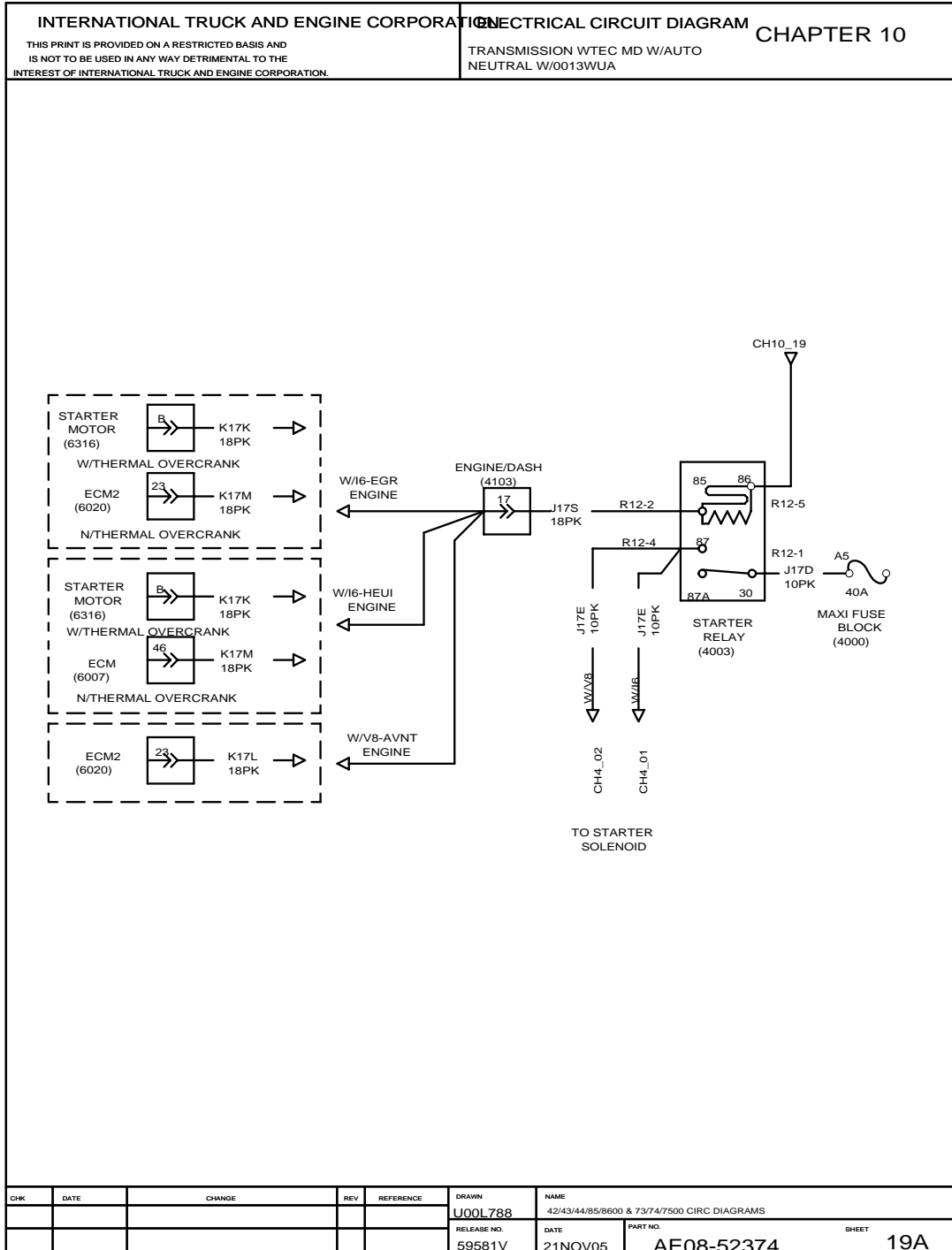


Figure 181 WTEC MD Transmission with Auto Neutral and with 0013WUA

10.25. EATON AUTOSHIFT/ULTRASHIFT TRANSMISSION (GEN 3), P. 20

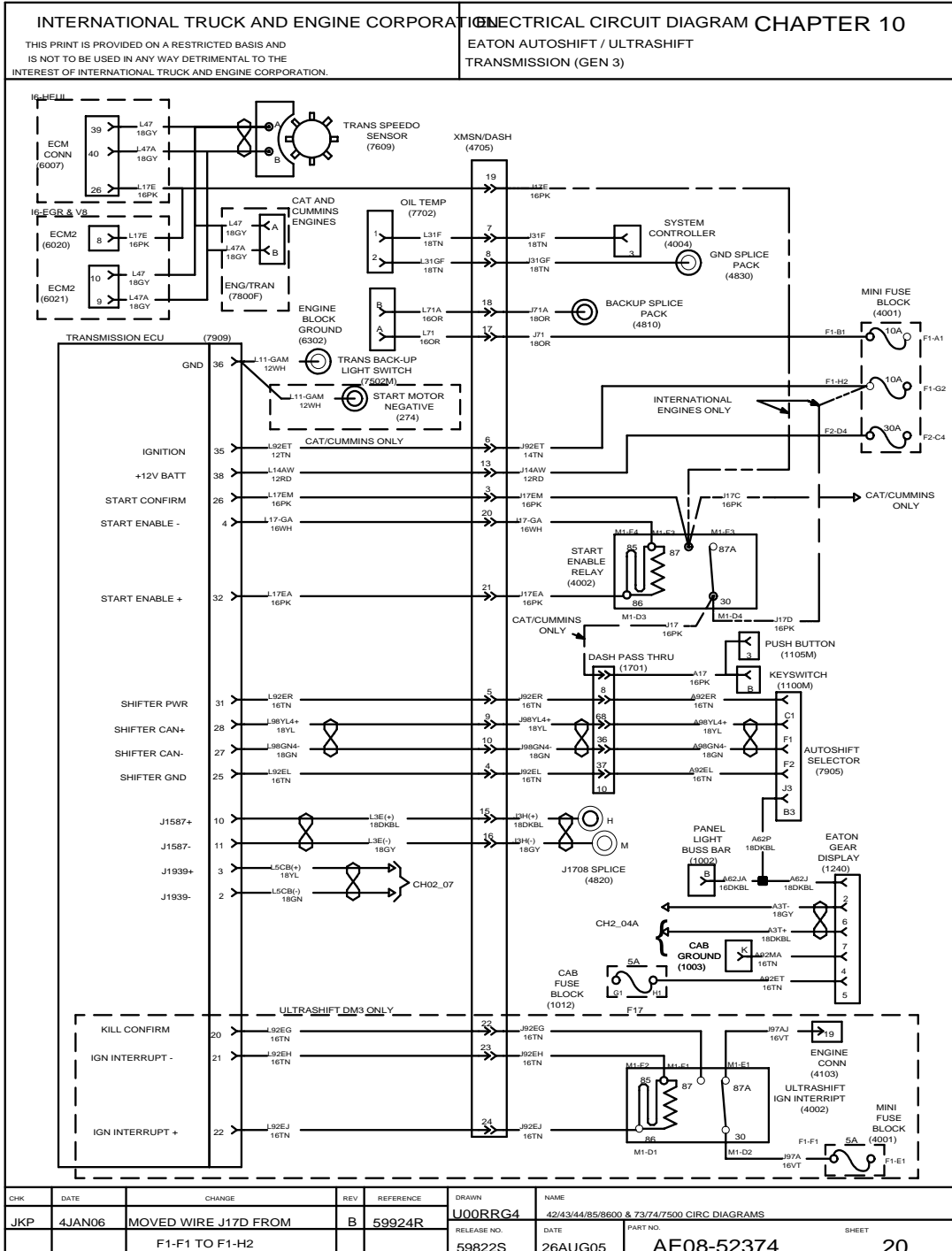


Figure 182 Eaton Autoshift/Ultrashift Transmission (Gen 3)



10.26. EATON HYBRID TRANSMISSION, P. 21

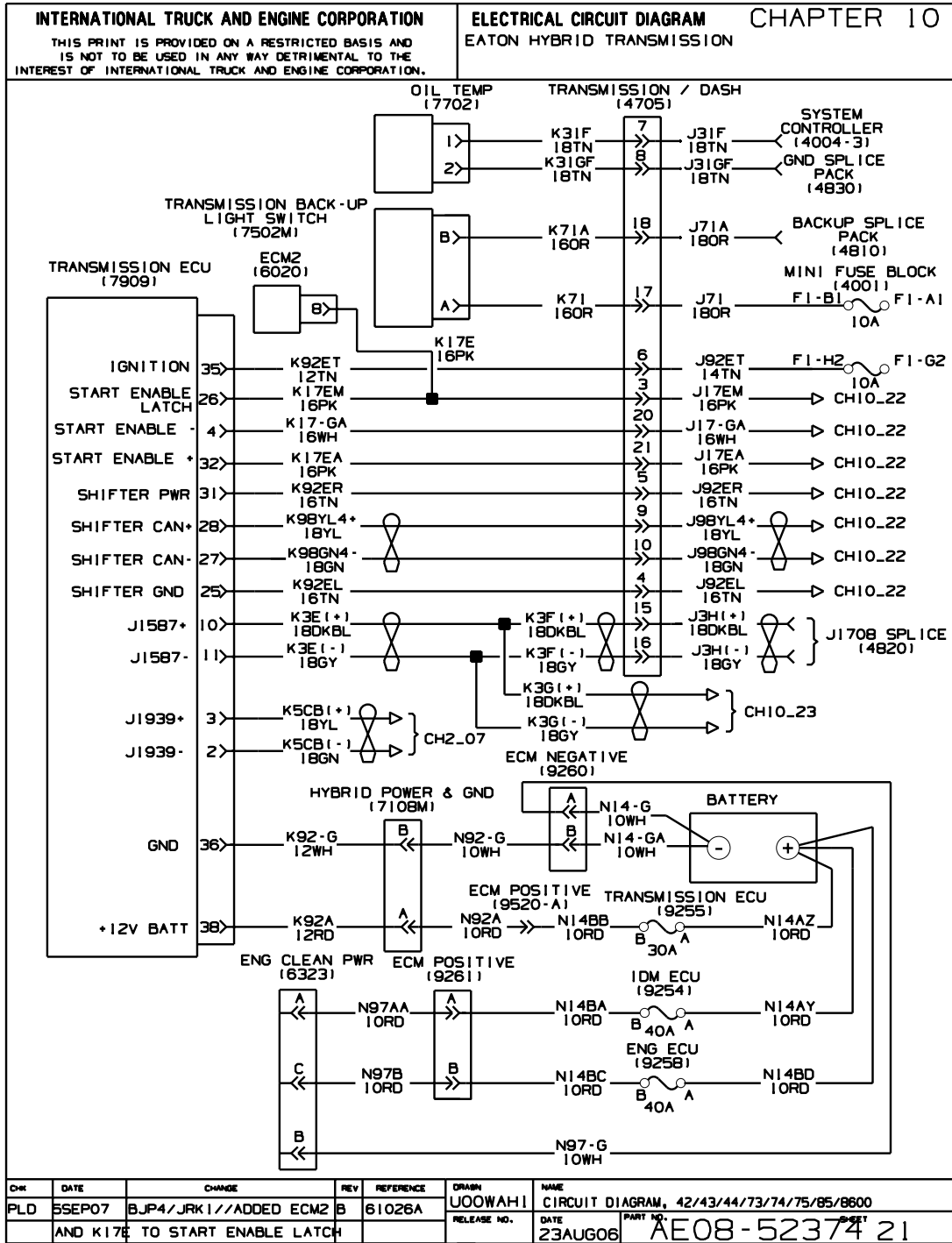


Figure 183 Eaton Hybrid Transmission

10.27. EATON HYBRID TRANSMISSION, P. 22

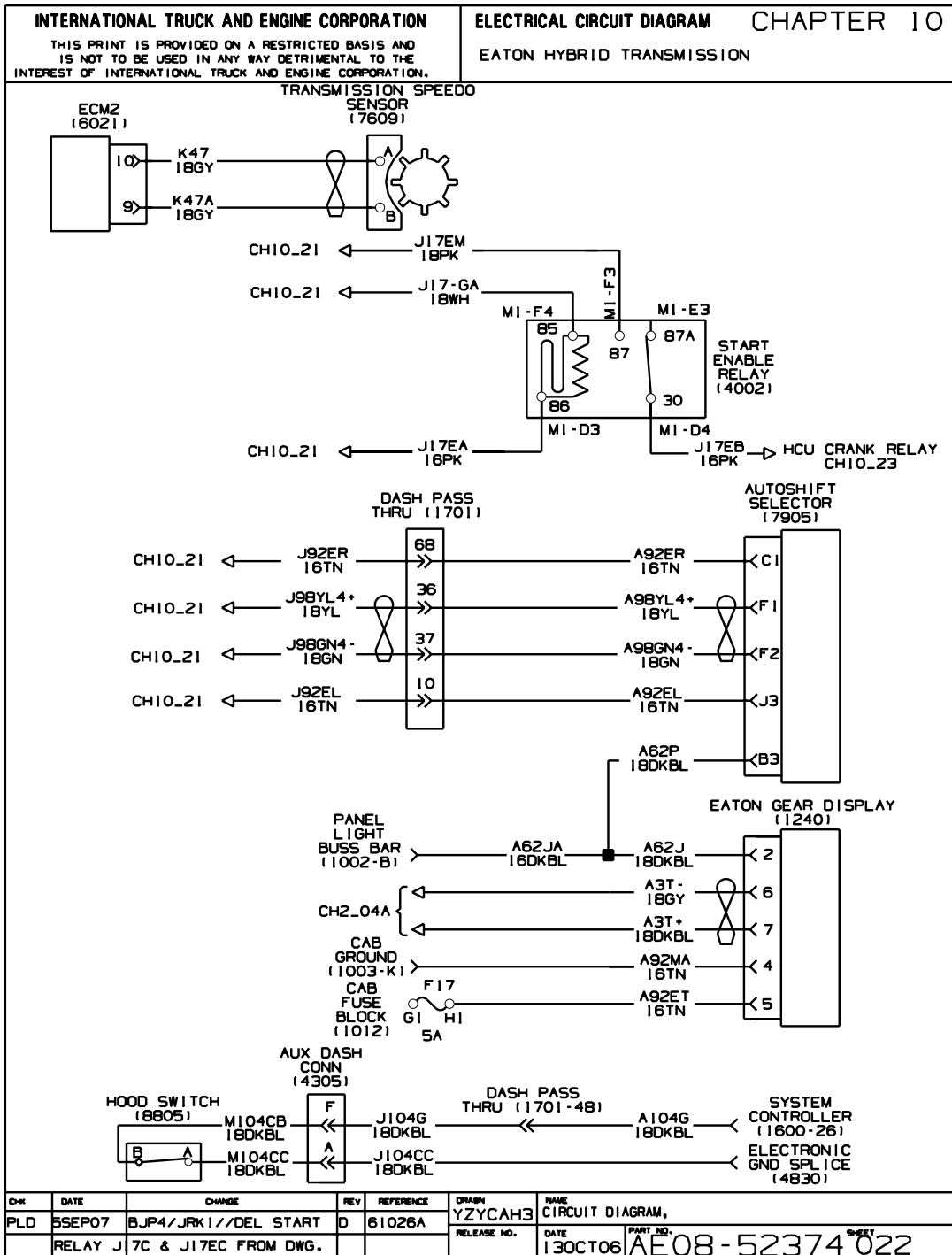


Figure 184 Eaton Hybrid Transmission

10.28. EATON HYBRID TRANSMISSION, P. 23

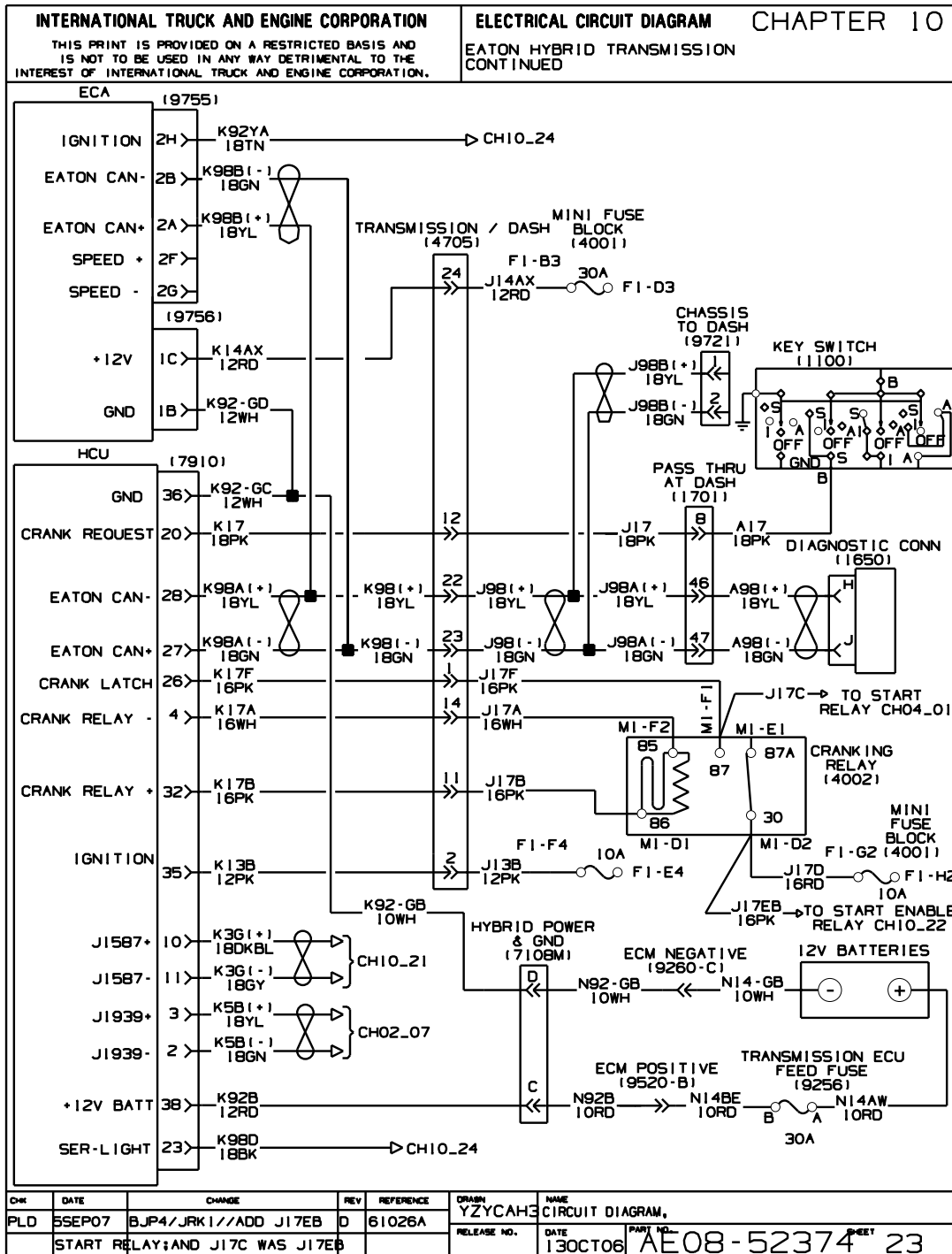


Figure 185 Eaton Hybrid Transmission

10.29. EATON HYBRID TRANSMISSION, P. 24

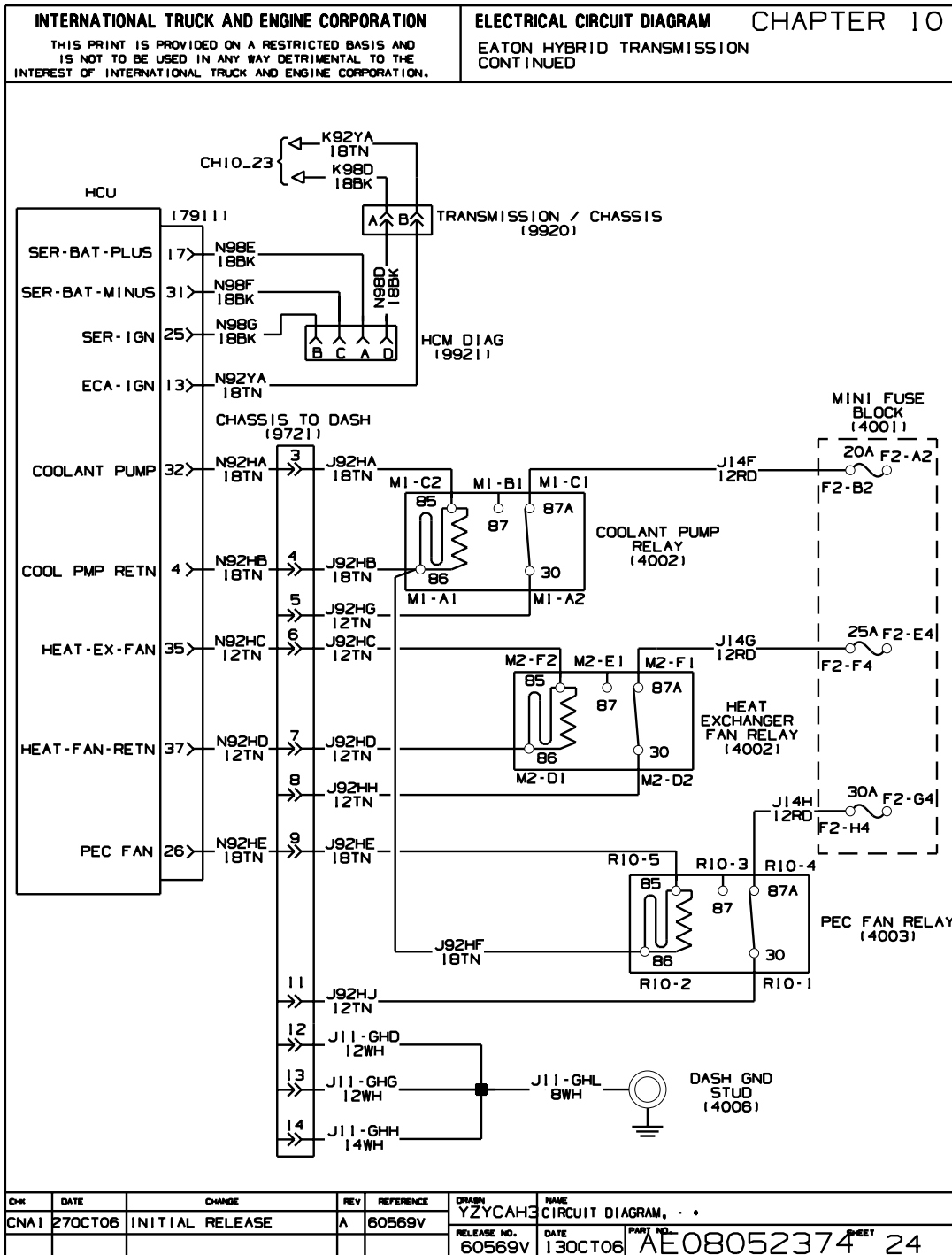


Figure 186 Eaton Hybrid Transmission

10.30. EATON HYBRID TRANSMISSION, P. 25

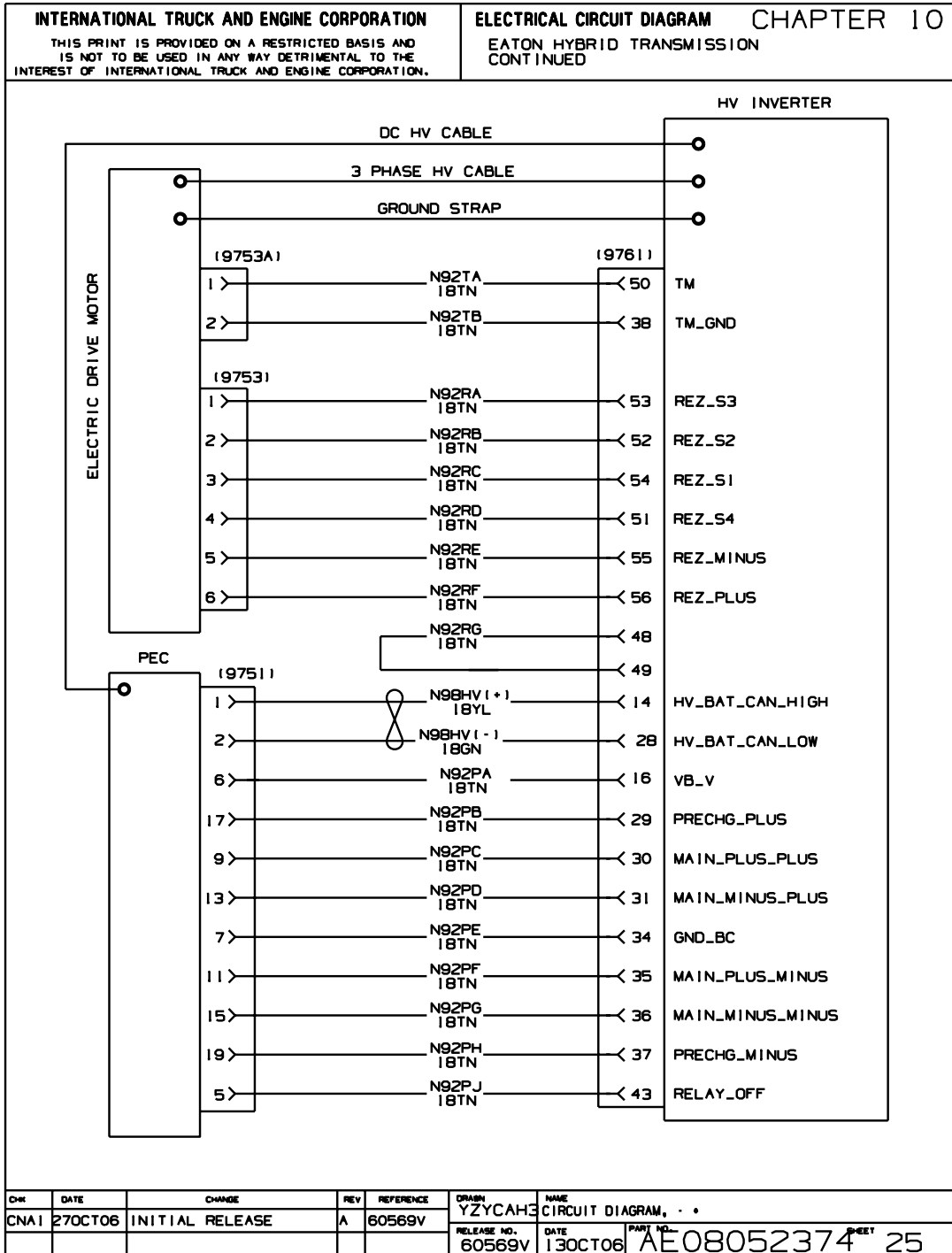


Figure 187 Eaton Hybrid Transmission

10.31. EATON HYBRID TRANSMISSION, P. 26

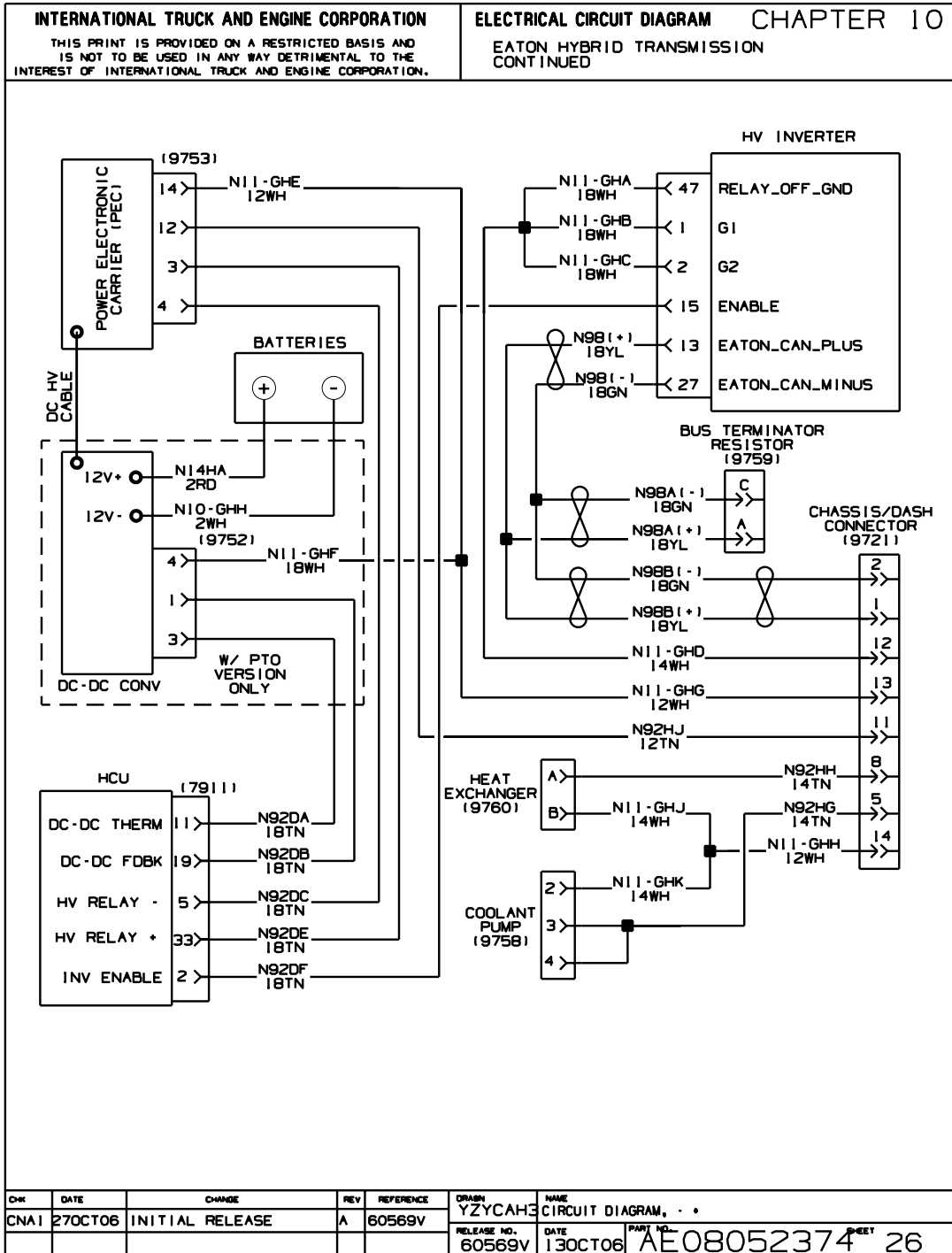


Figure 188 Eaton Hybrid Transmission

10.32. TRANSFER CASE — WITH MXT, P. 27

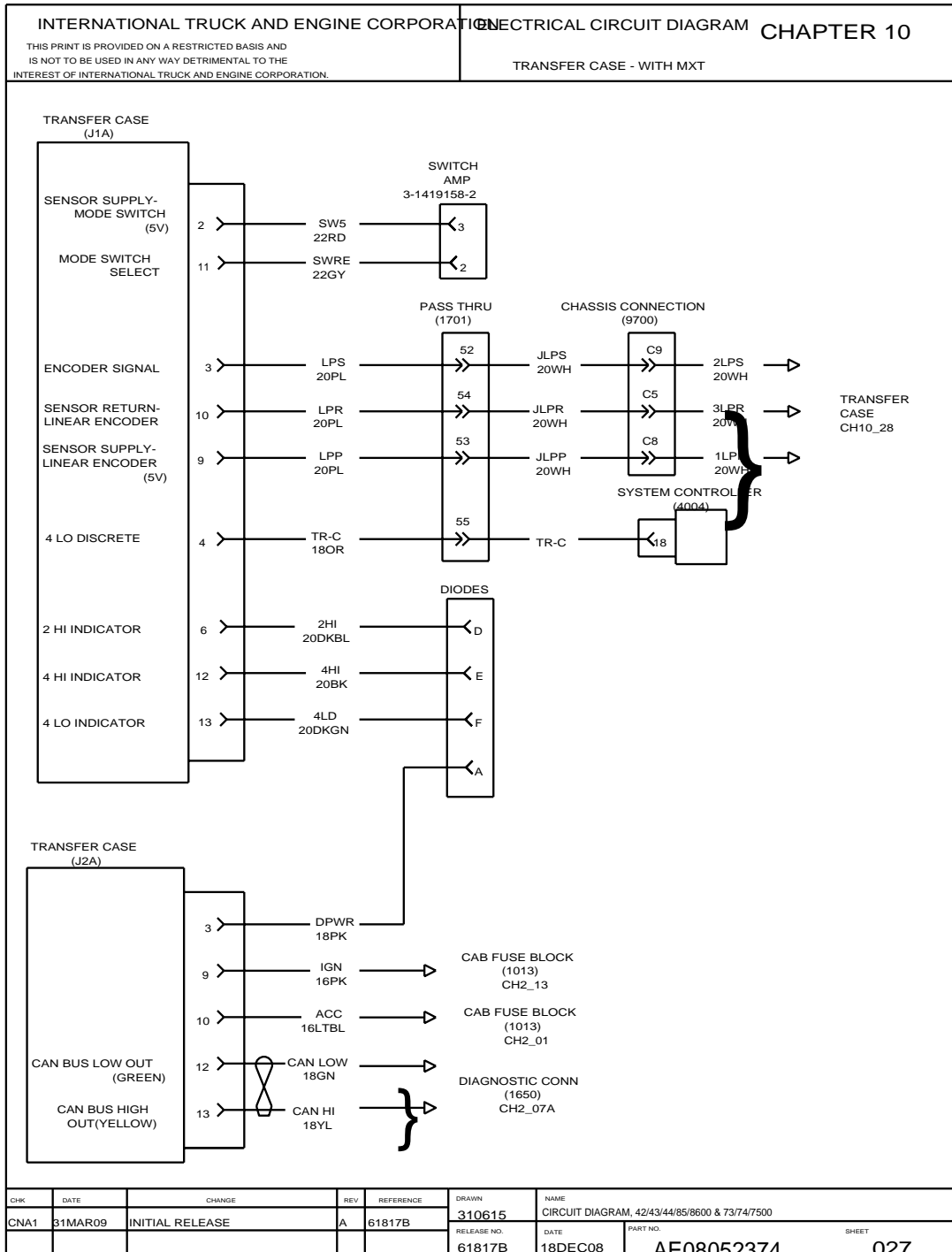


Figure 189 Transfer Case — with MXT

10.33. TRANSFER CASE — WITH MXT, P. 28

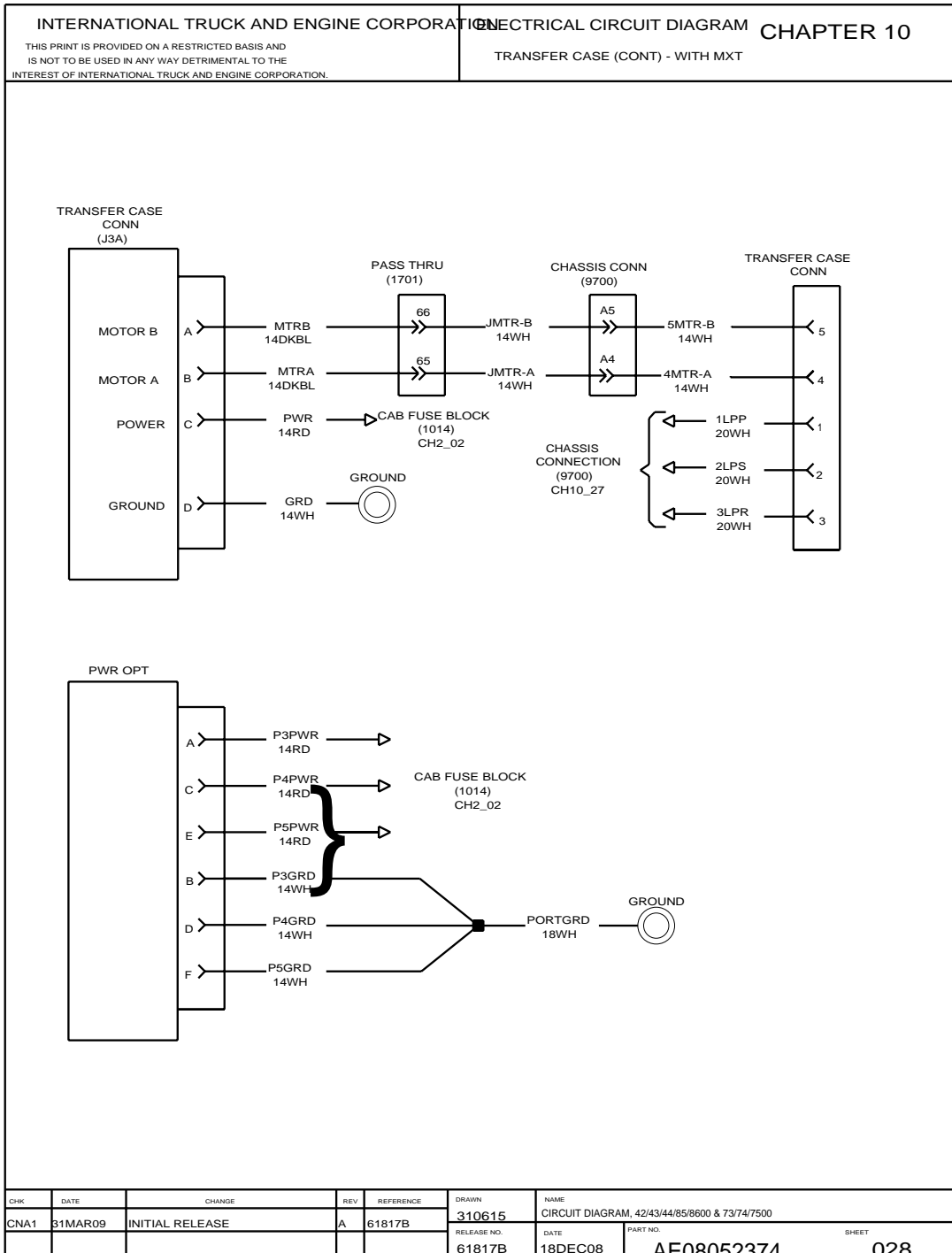


Figure 190 Transfer Case — with MXT



## 11. AIR CONDITIONING (CHAPTER 11)

### 11.1. HVAC SYSTEMS, P. 1

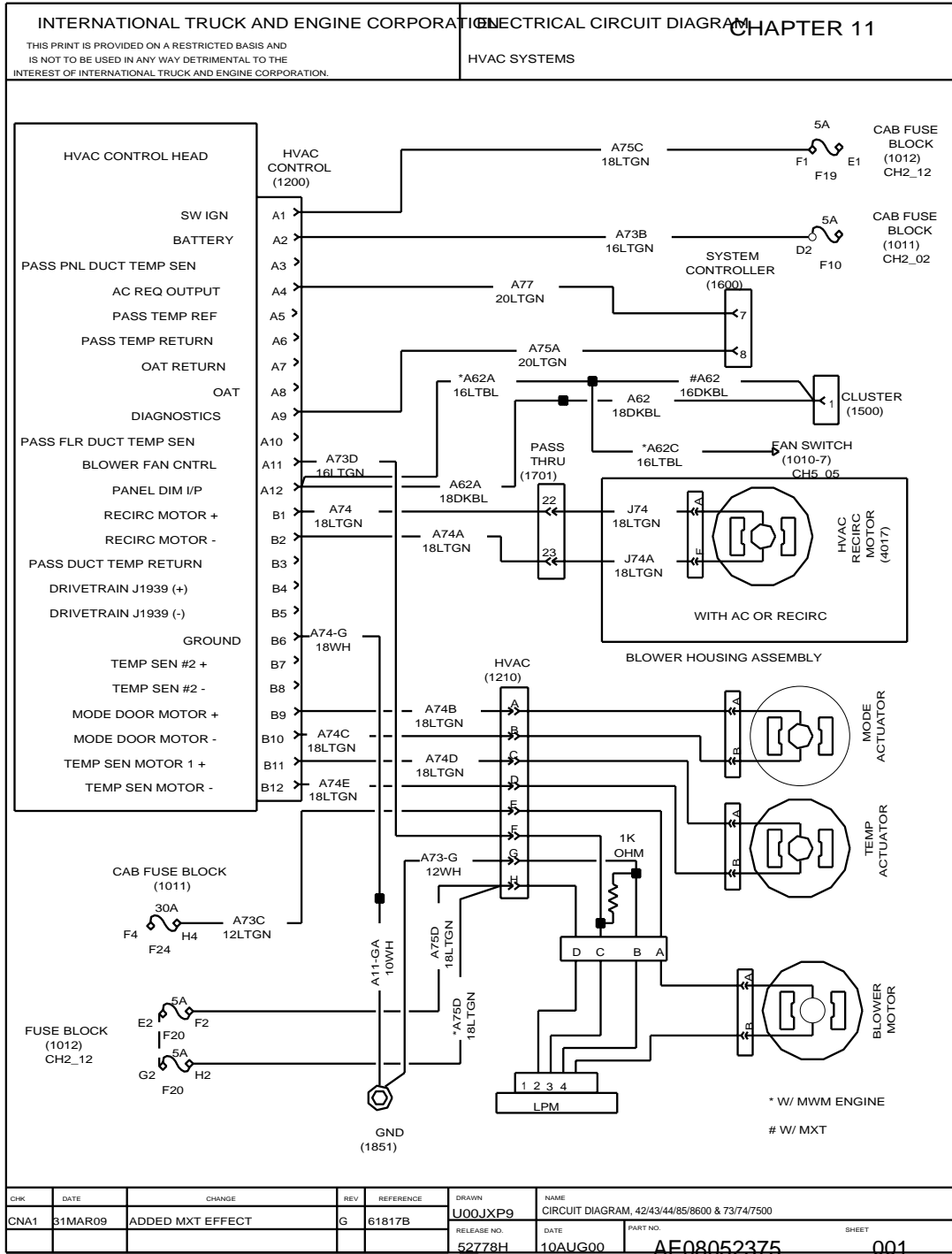


Figure 191 HVAC Systems

11.2. AIR CONDITIONING, P. 2

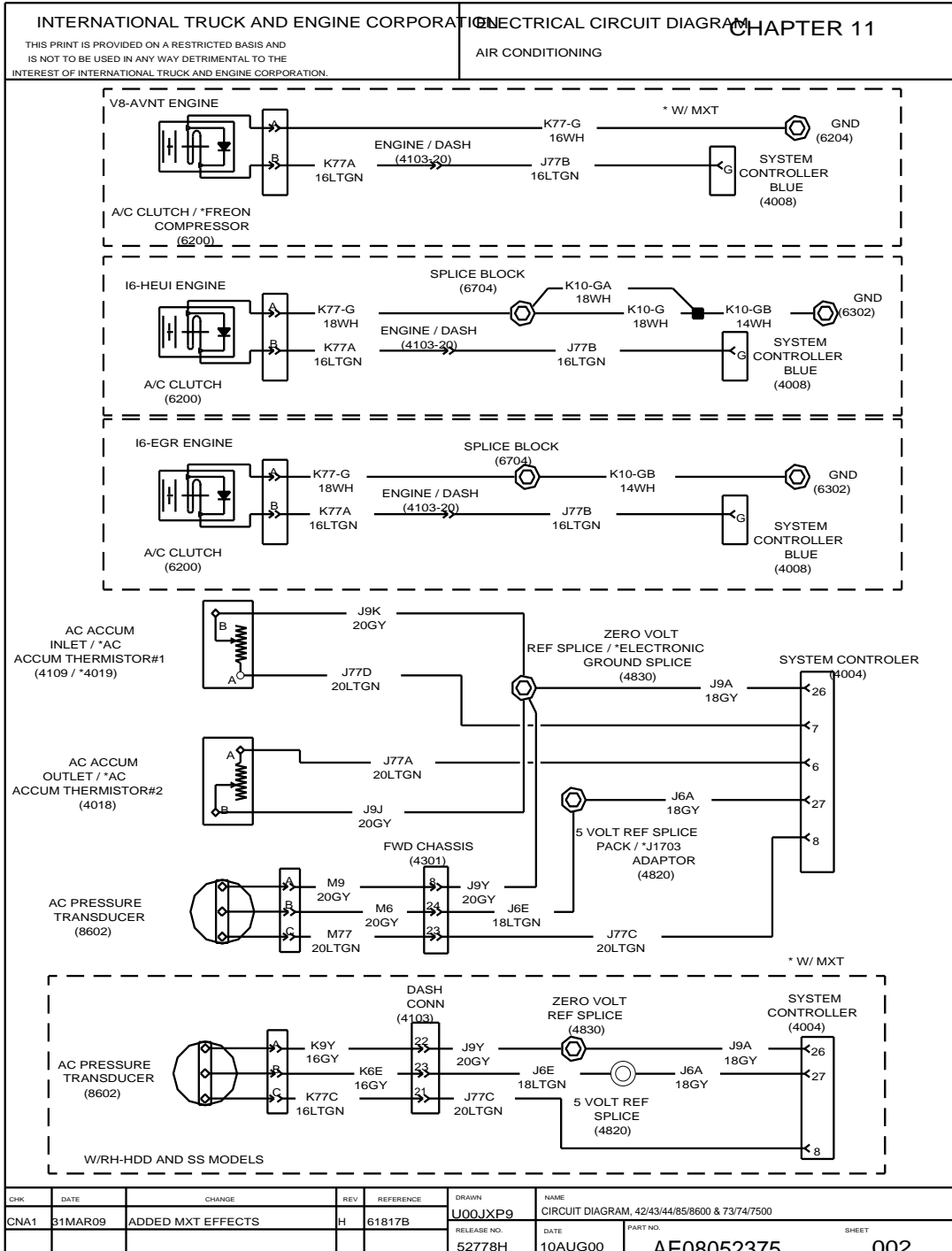


Figure 192 Air Conditioning

11.3. AUTOTHERM SYSTEMS, P. 3

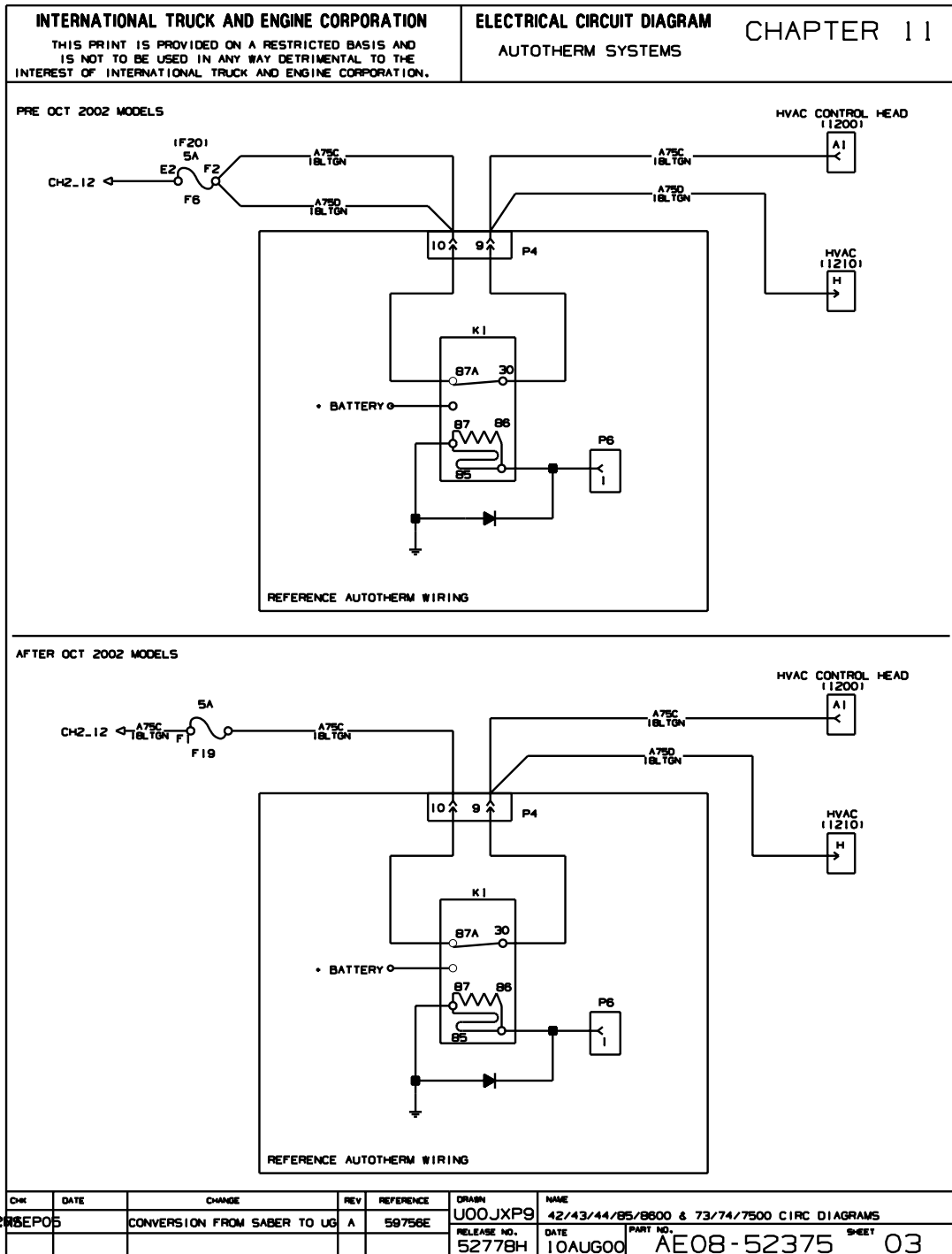


Figure 193 Autotherm Systems

## 12. CONNECTOR COMPOSITES (CHAPTER 12)

### 12.1. CONNECTOR COMPOSITES (10M), (71), (72), (345F), P. 1

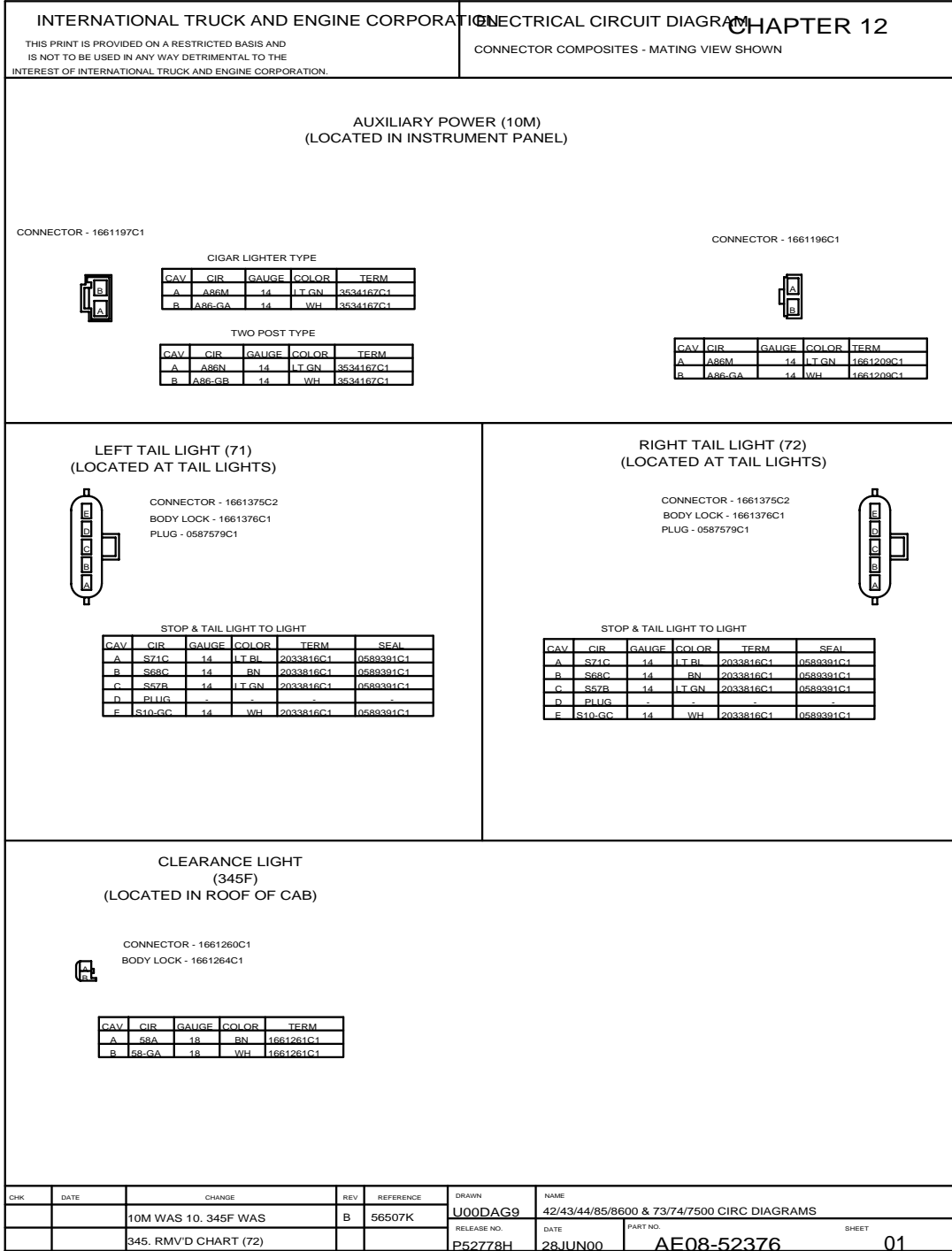


Figure 194 Connector Composites (10M), (71), (72), (345F)

12.2. CONNECTOR COMPOSITES (420F), (421F), (422M), (520), (521), (522), (523), (524), P. 2

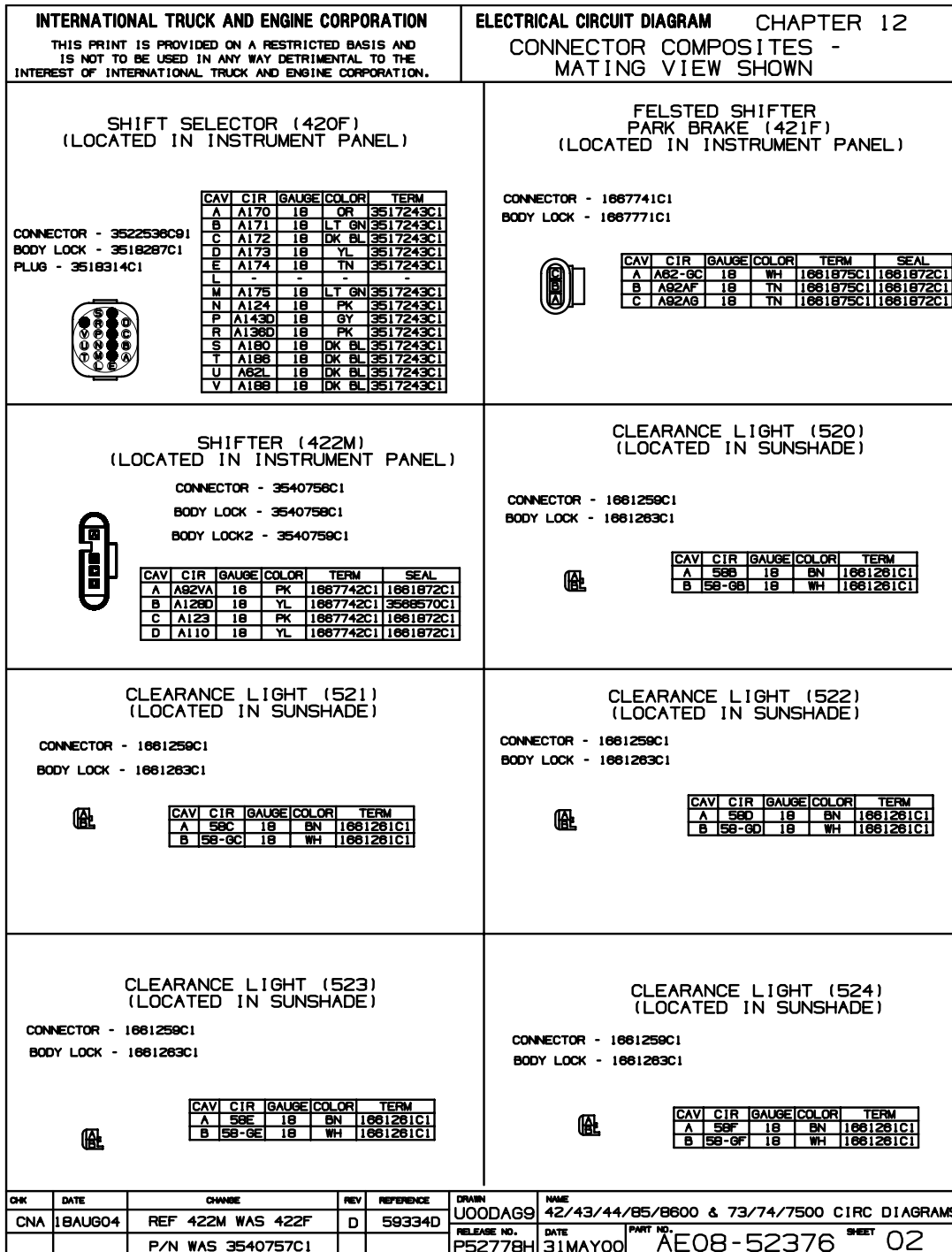


Figure 195 Connector Composites (420F), (421F), (422M), (520), (521), (522), (523), (524)

12.3. CONNECTOR COMPOSITES (734M), (1002), (1003), P. 3

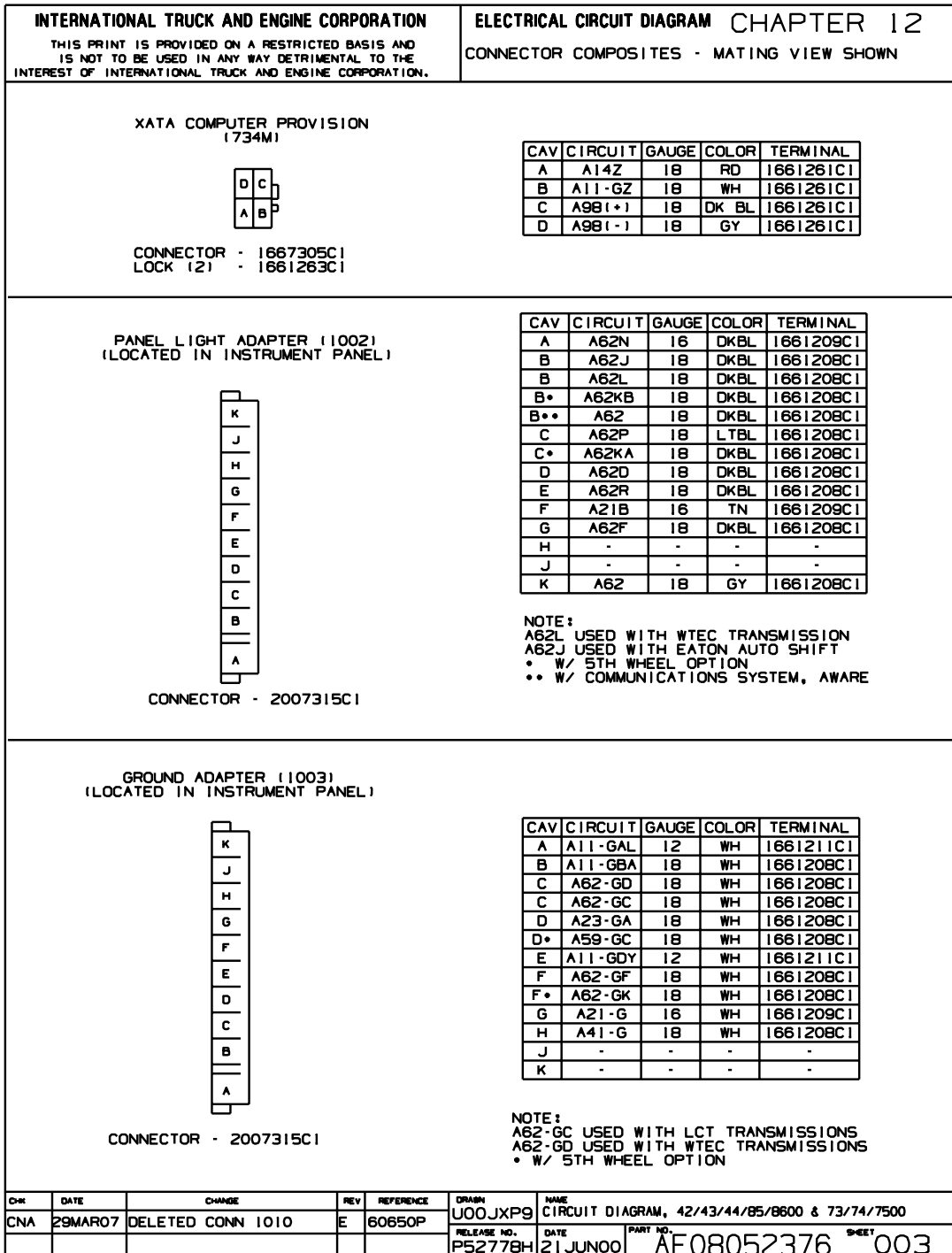


Figure 196 Connector Composites (734M), (1002), (1003)

12.4. CONNECTOR COMPOSITES (1005), (1006), (1008), (1009), P. 3A

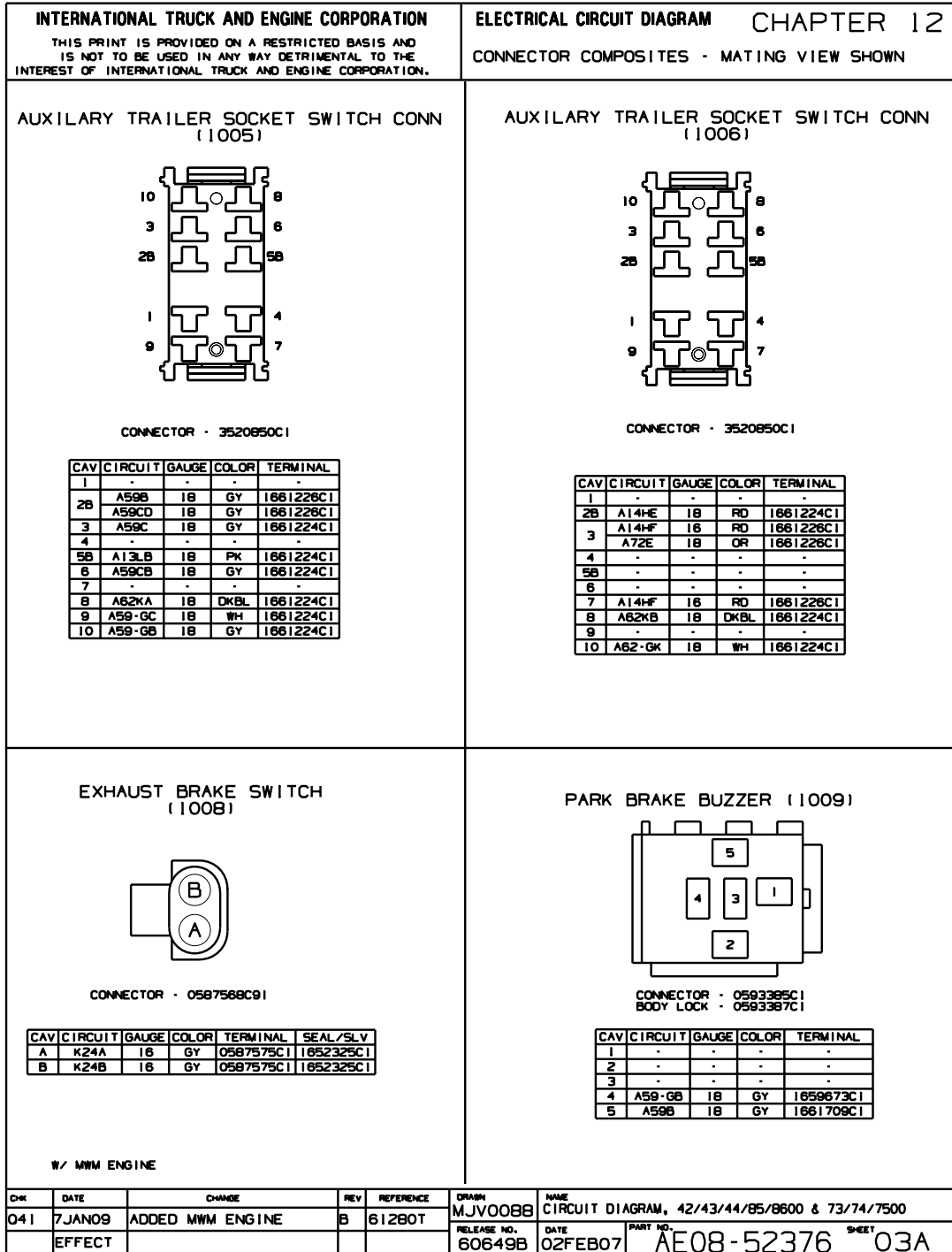


Figure 197 Connector Composites (1005), (1006), (1008), (1009)

12.5. CONNECTOR COMPOSITES (1007), (1008), (1010), P. 3B

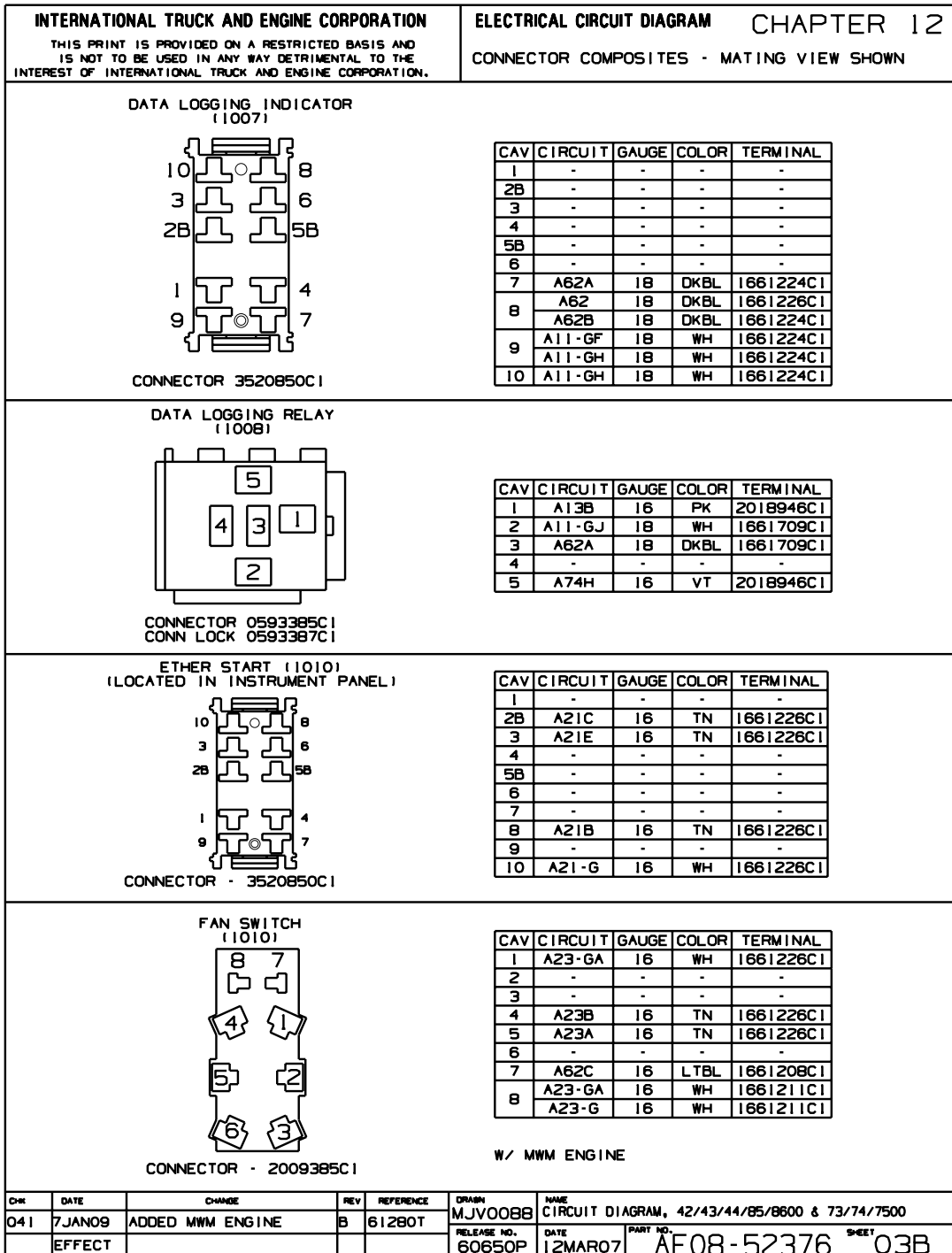


Figure 198 Connector Composites (1007), (1008), (1010)



12.6. CONNECTOR COMPOSITE (1011), P. 4

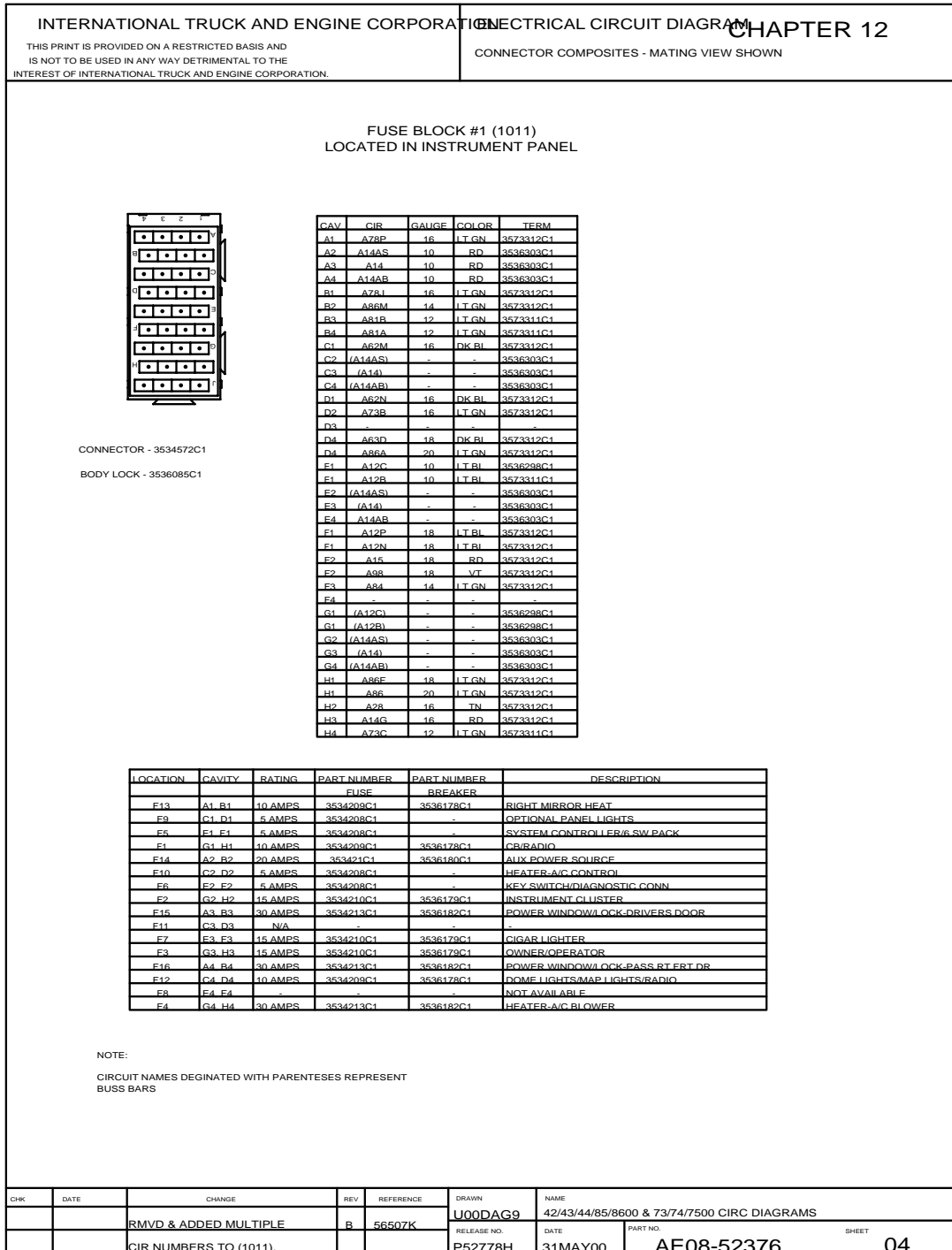


Figure 199 Connector Composite (1011)

12.7. CONNECTOR COMPOSITE (1012), P. 5

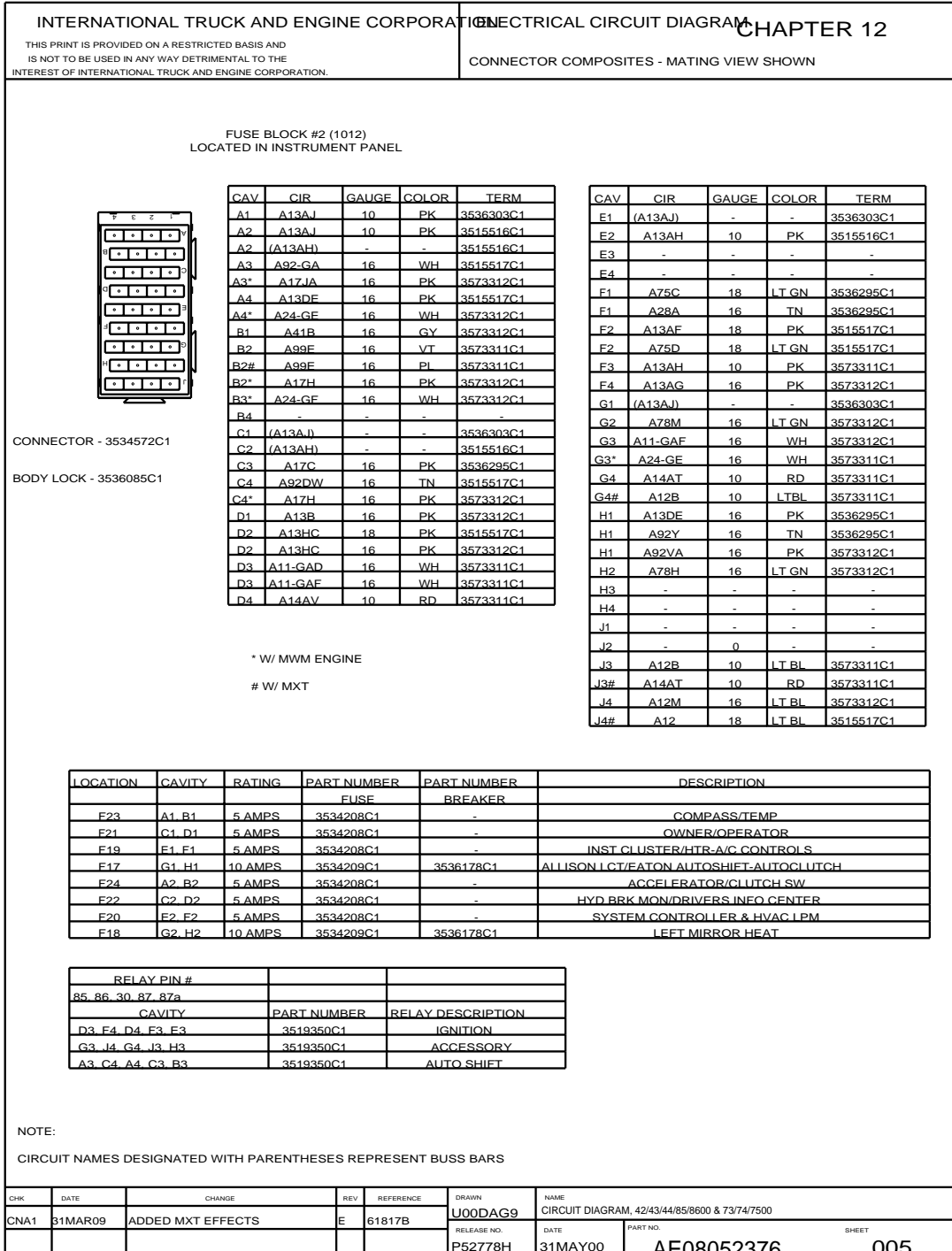


Figure 200 Connector Composite (1012)

12.8. CONNECTOR COMPOSITE (1013), P. 6

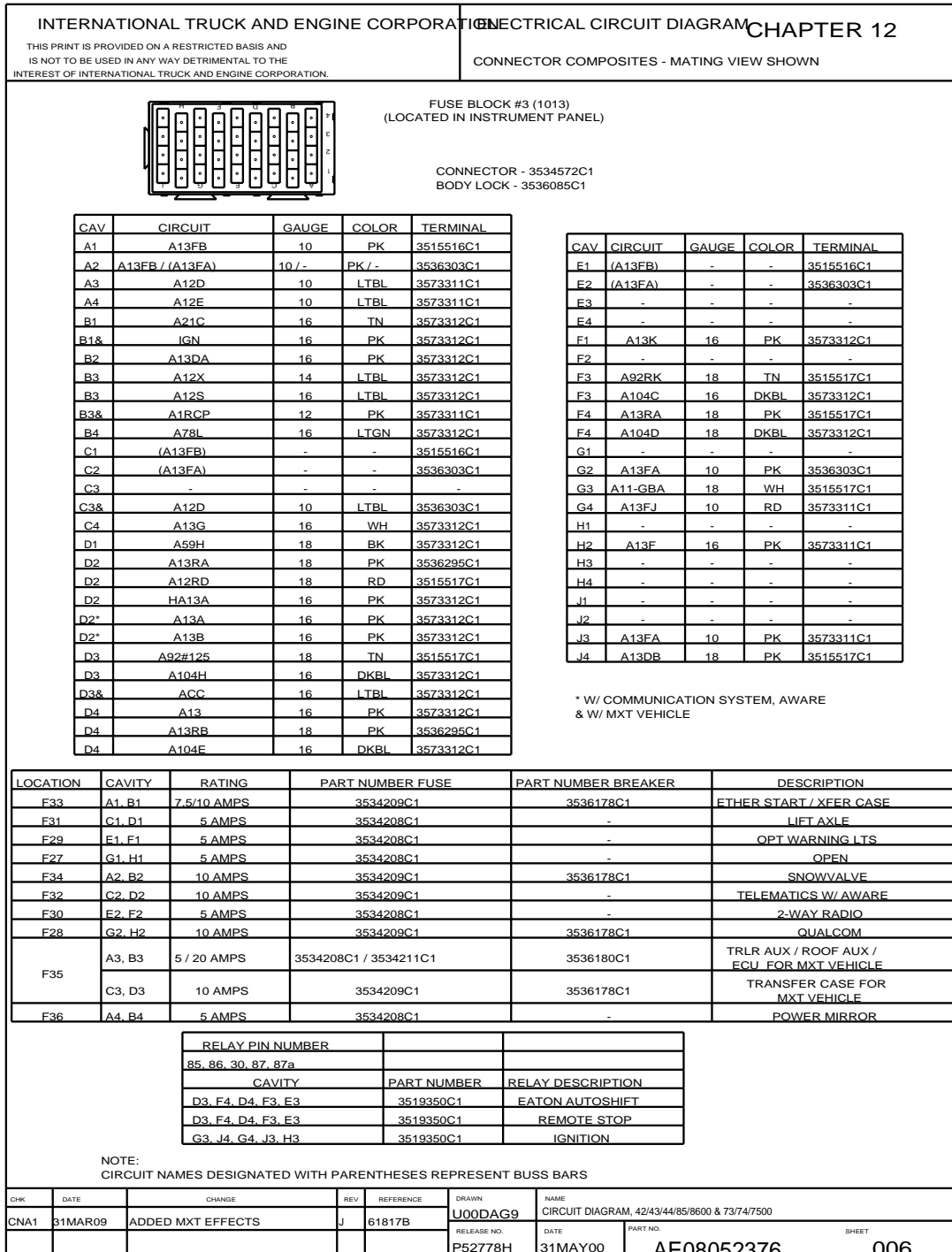


Figure 201 Connector Composite (1013)

12.9. CONNECTOR COMPOSITE (1014), P. 7

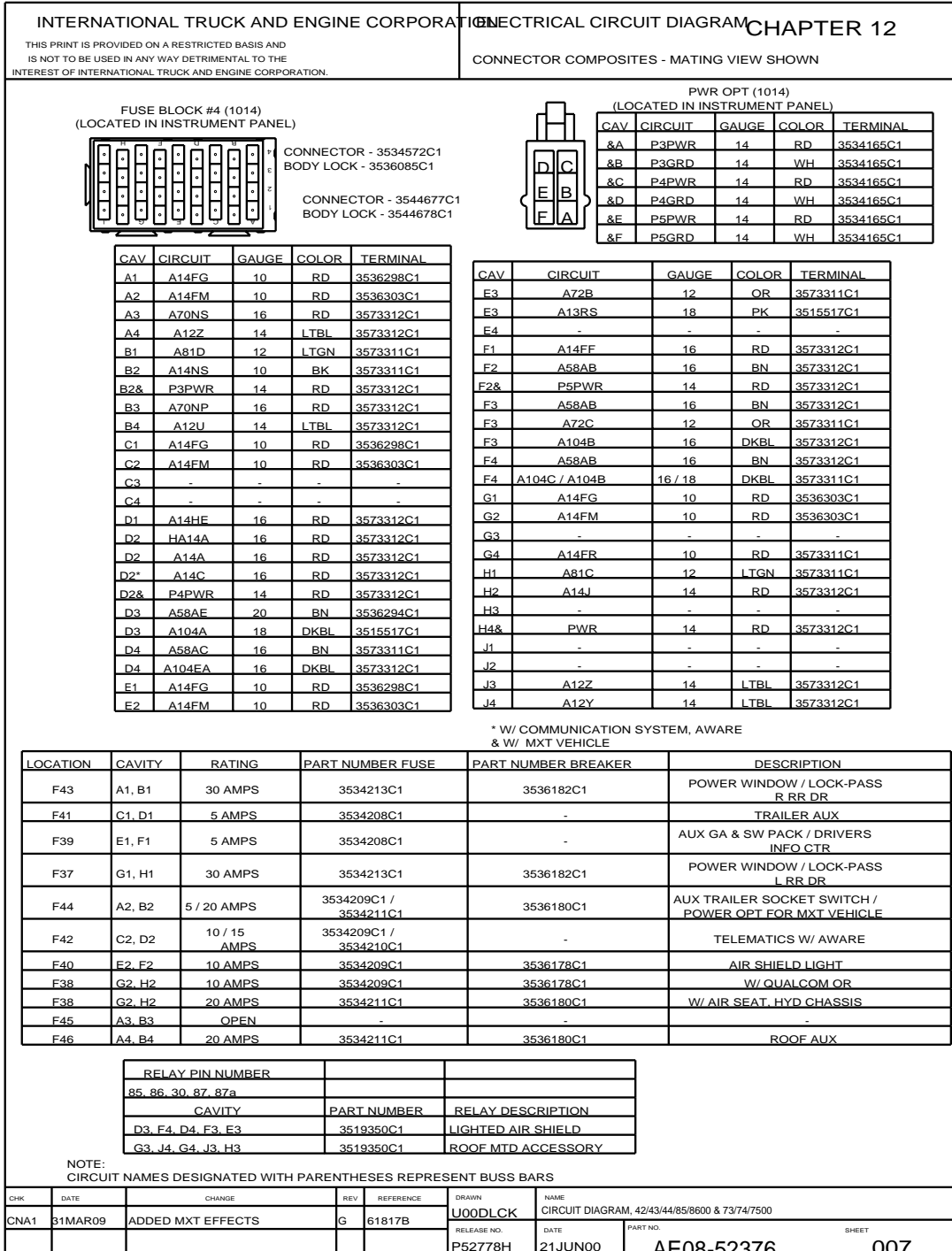


Figure 202 Connector Composite (1014)

12.10. CONNECTOR COMPOSITES (1016), (1018), (1019), (1019F), (1019M), (1020M), P. 8

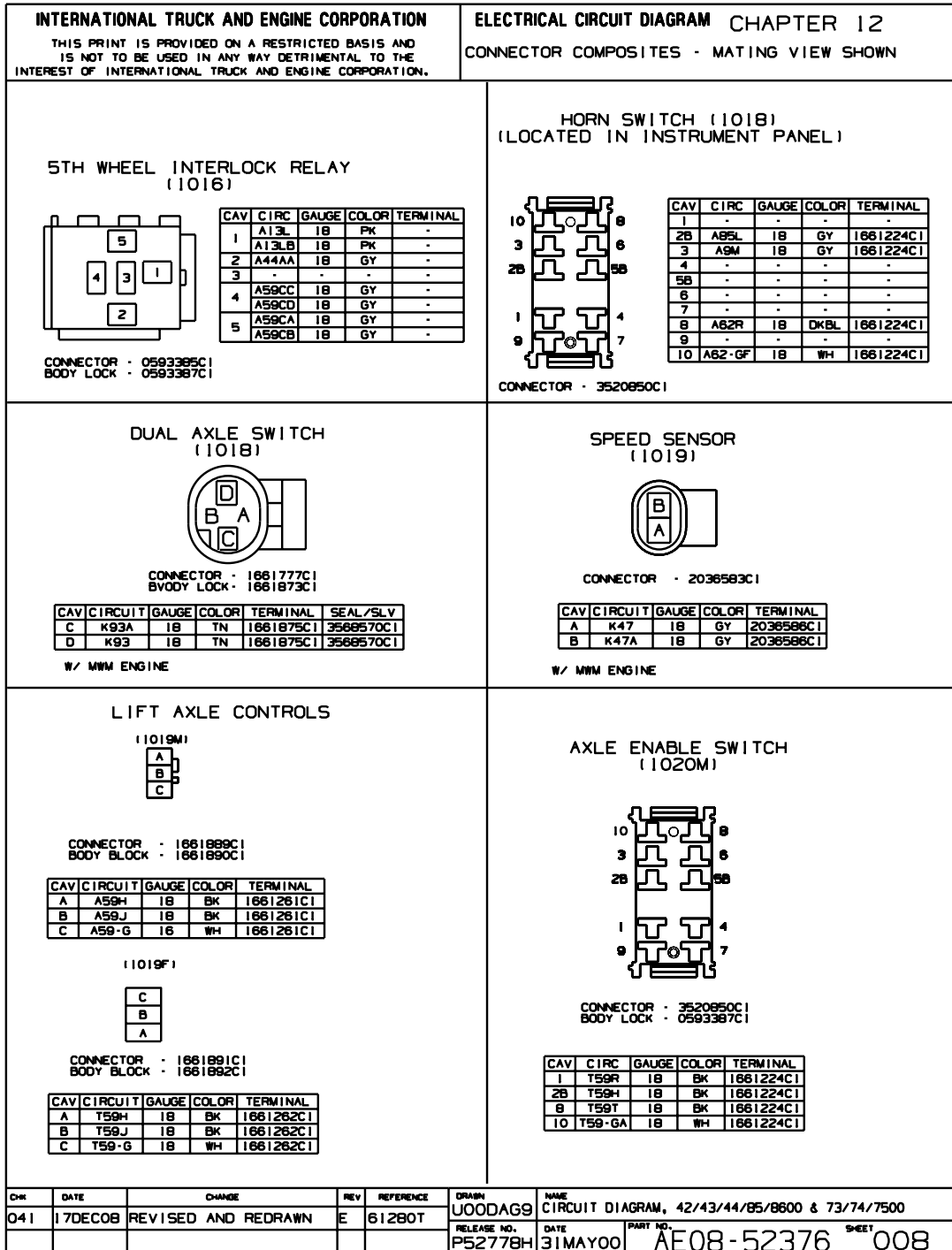


Figure 203 Connector Composites (1016), (1018), (1019), (1019F), (1019M), (1020M)

12.11. CONNECTOR COMPOSITES (1020), (1021M), (1022M), P. 8A

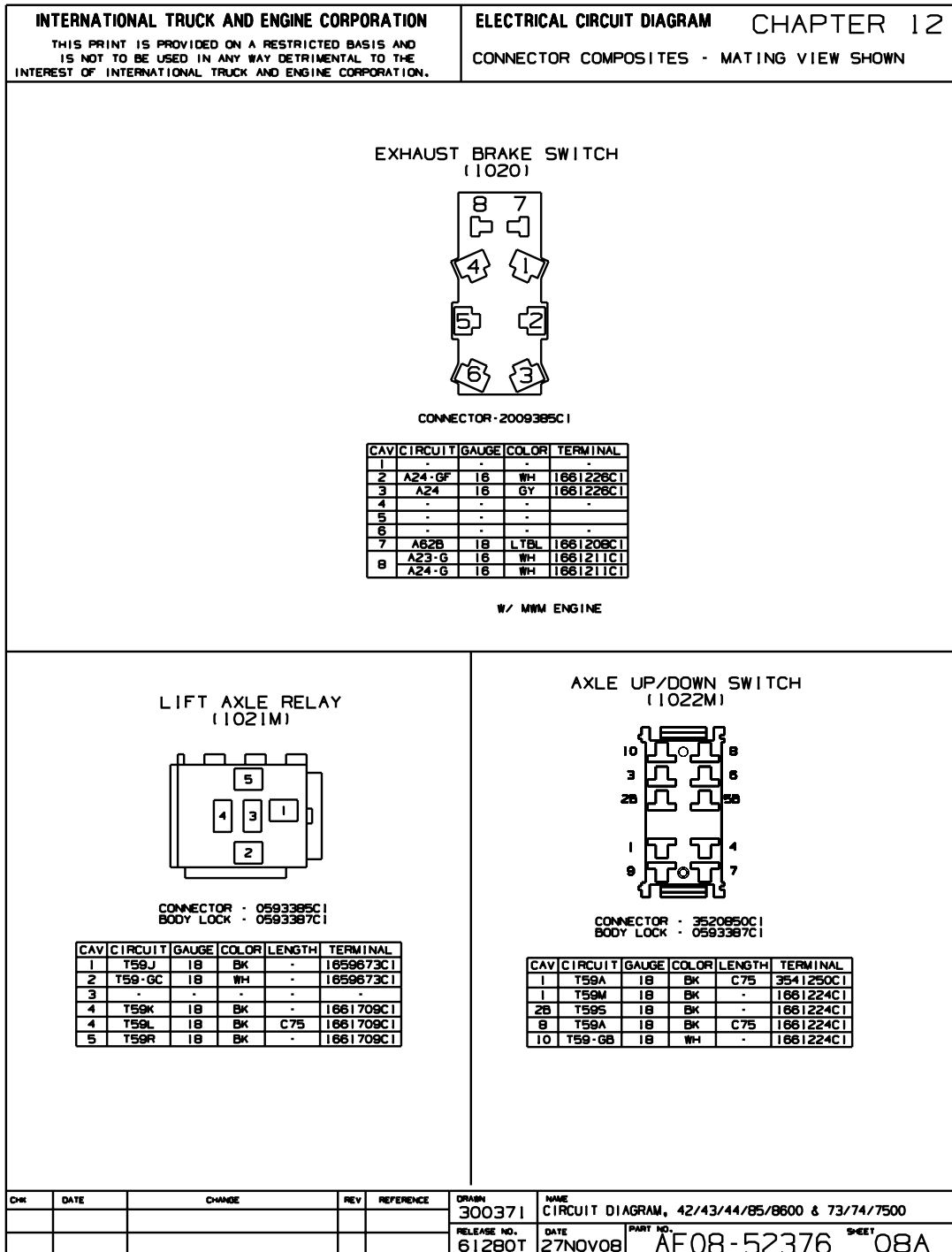


Figure 204 Connector Composites (1020), (1021M), (1022M)

12.12. CONNECTOR COMPOSITES (1027M, F), (1040), (1100), (1101A), (1101), (1102),  
P. 9

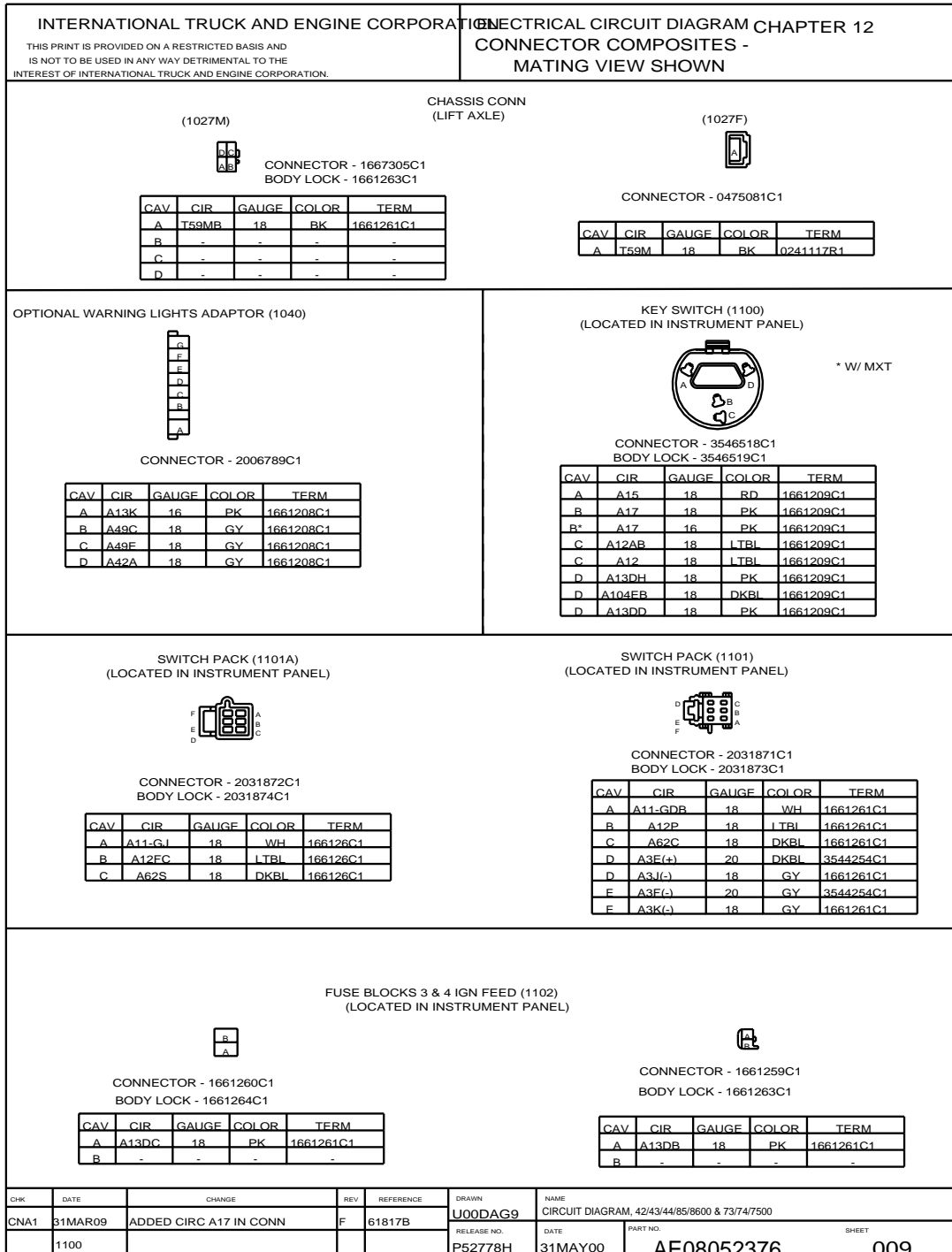


Figure 205 Connector Composites (1027M, F), (1040), (1100), (1101A), (1101), (1102)

12.13. CONNECTOR COMPOSITES (1104), (1105M), (1106), (1200), (1210), (1240), P. 10

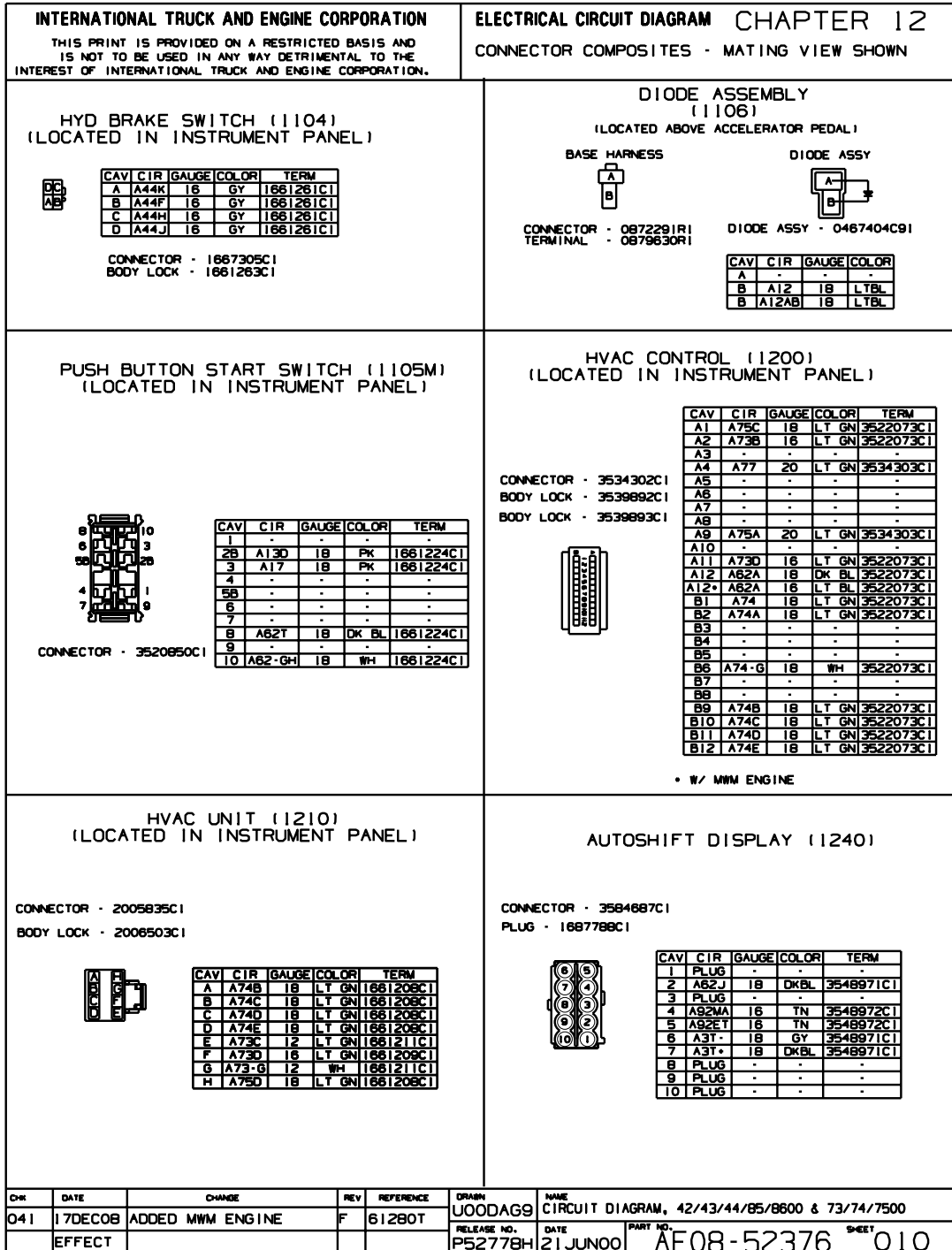


Figure 206 Connector Composites (1104), (1105M), (1106), (1200), (1210), (1240)



**12.14. CONNECTOR COMPOSITES (1300), (1301), (1400), (1402), (1410), (1500), (1510), P. 11**

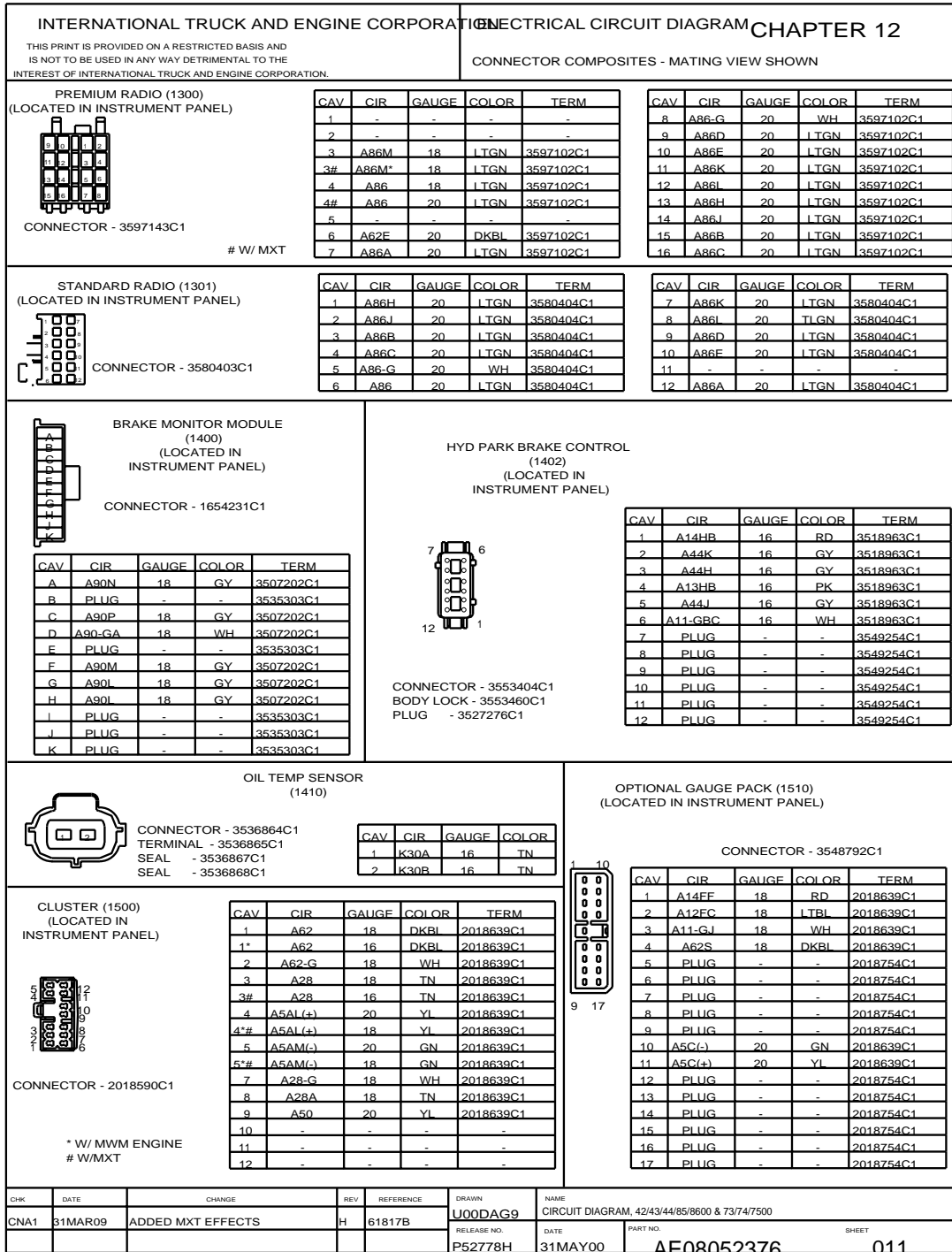


Figure 207 Connector Composites (1300), (1301), (1400), (1402), (1410), (1500), (1510)

12.15. CONNECTOR COMPOSITES (1553), (1554F), (1555), (1600), (1601), (1650), P. 12

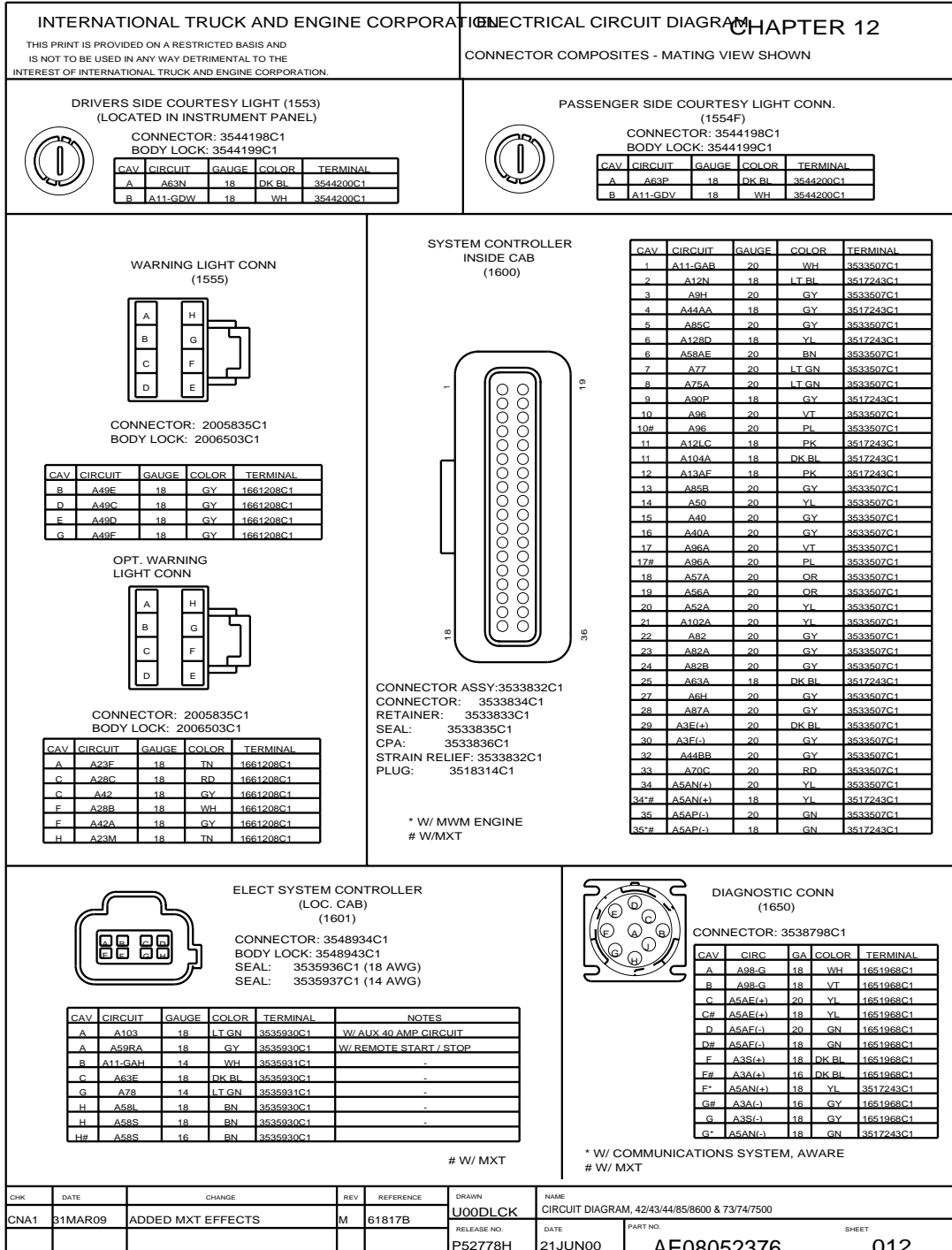
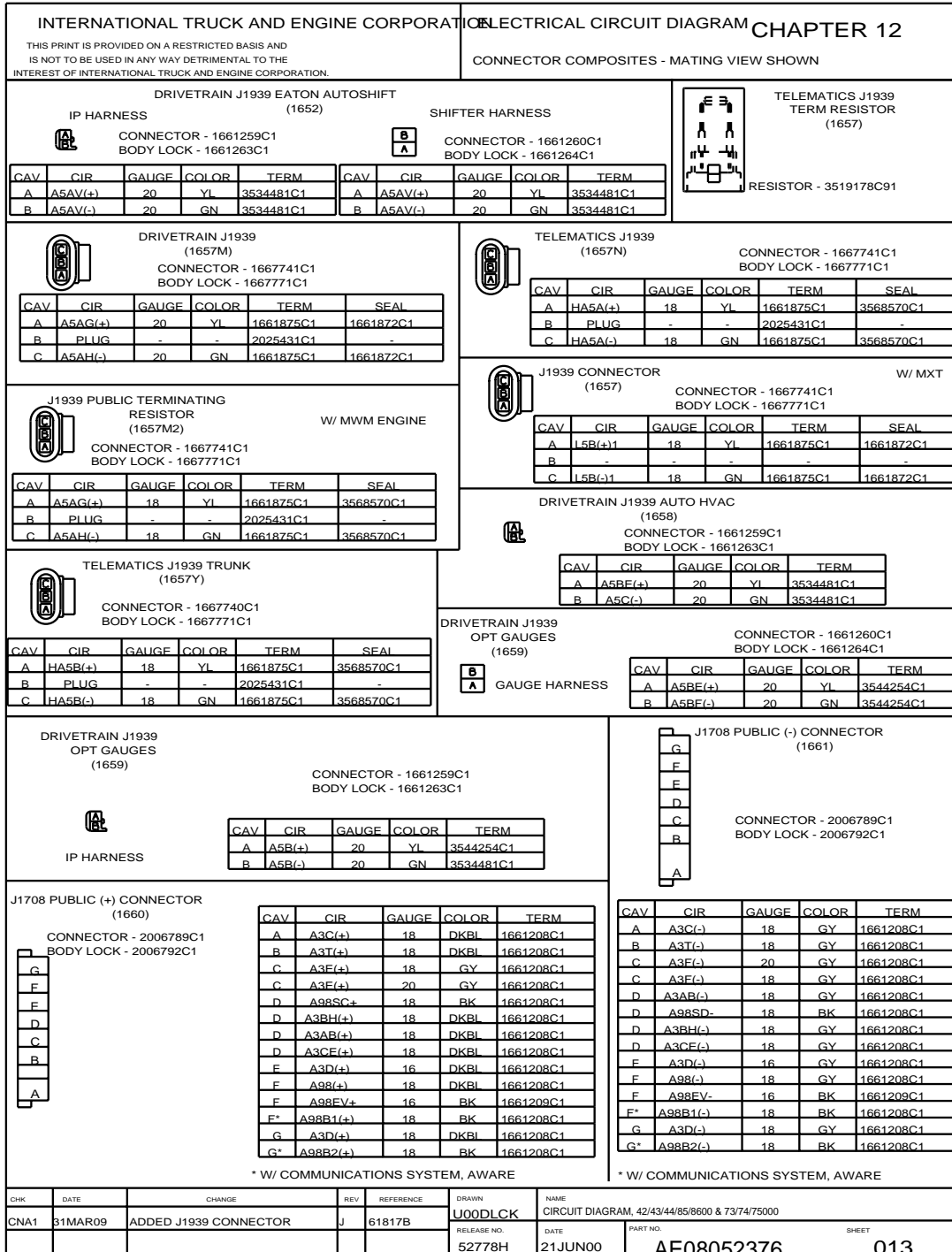


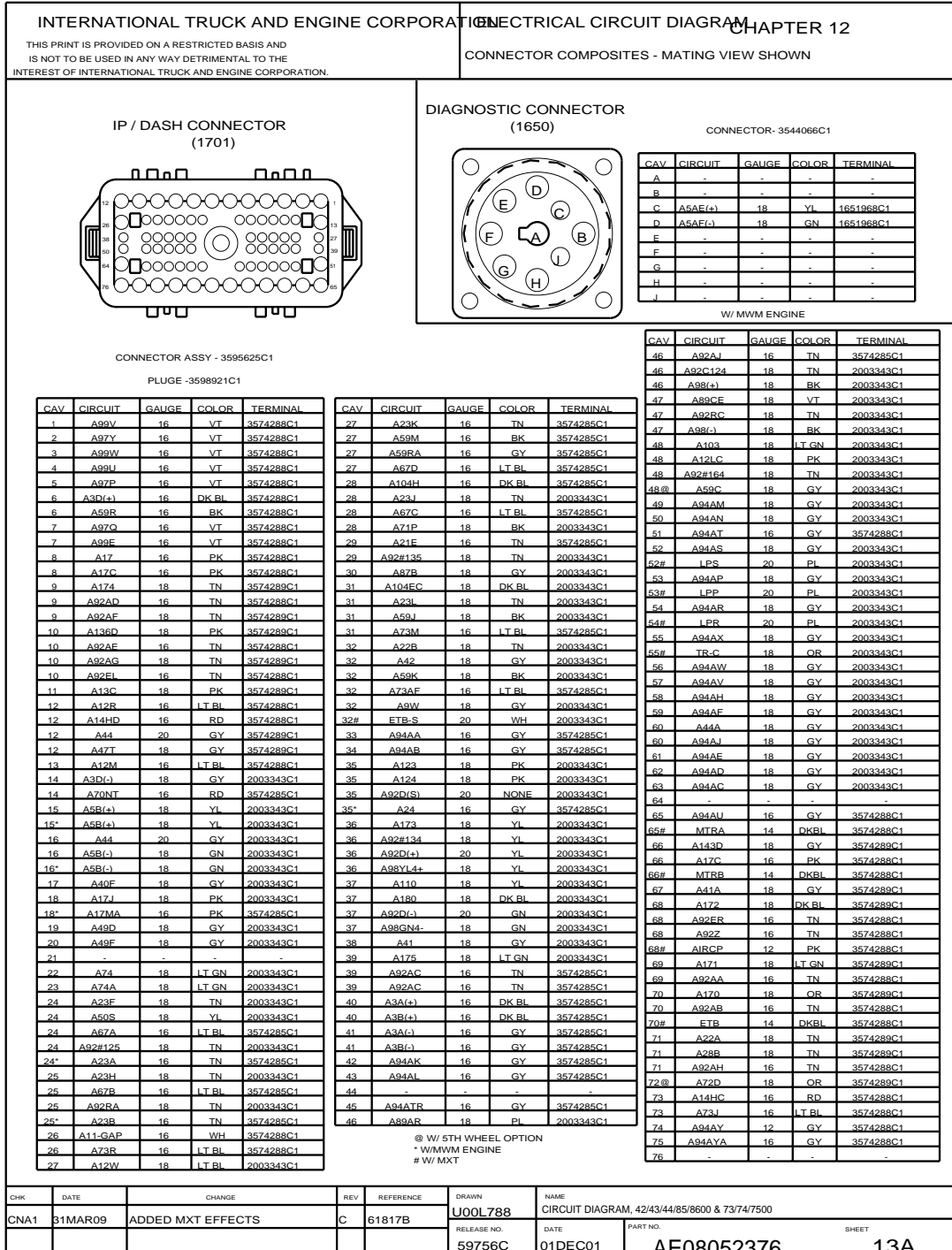
Figure 208 Connector Composites (1553), (1554F), (1555), (1600), (1601), (1650)

**12.16. CONNECTOR COMPOSITES (1652), (1657), (1657M), (1657M2), (1657N), (1657Y), (1658), (1659), (1660), (1661), P. 13**



**Figure 209 Connector Composites (1652), (1657), (1657M), (1657M2), (1657N), (1657Y), (1658), (1659), (1660), (1661)**

12.17. CONNECTOR COMPOSITES (1650), (1701), P. 13A



12.18. CONNECTOR COMPOSITE (1701), P. 13B

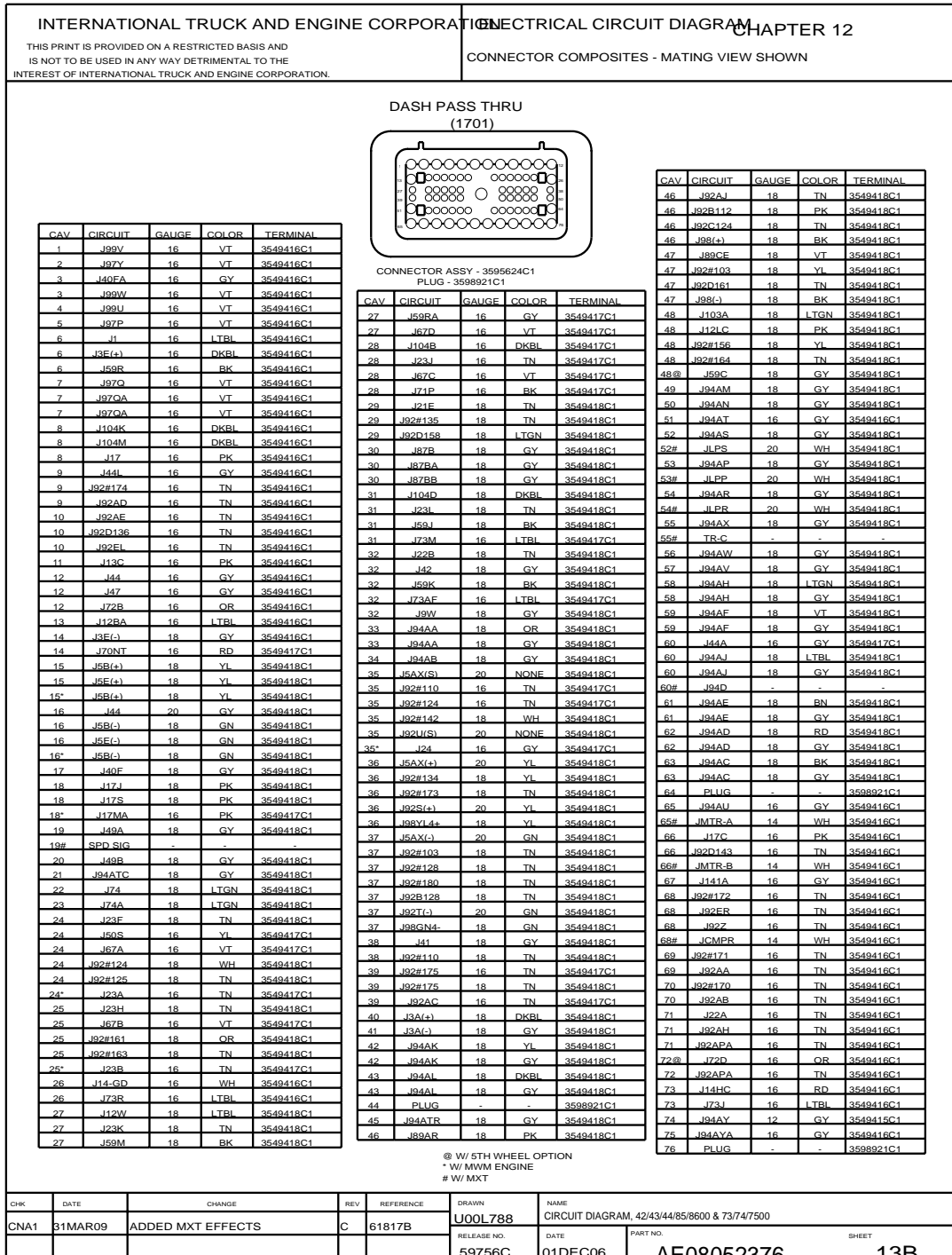


Figure 211 Connector Composite (1701)

12.19. CONNECTOR COMPOSITES (1703), (1800), (1804), (1807), (1808), (1809), (1810), (1811), (1812), (1813), (1814), (1815), P. 14

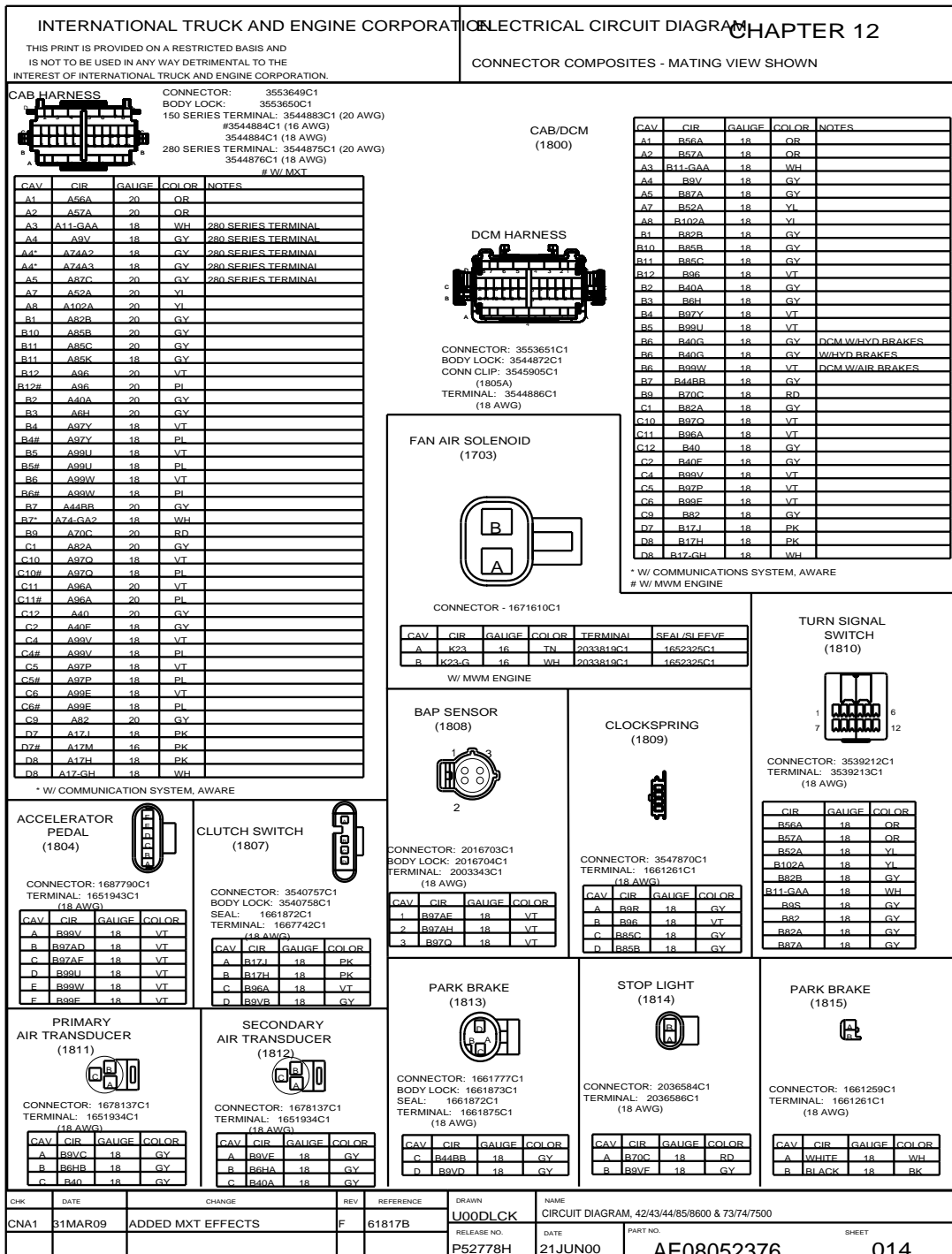


Figure 212 Connector Composites (1703), (1800), (1804), (1807), (1808), (1809), (1810), (1811), (1812), (1813), (1814), (1815)

**12.20. CONNECTOR COMPOSITES (1820), (1822), (1823), (1824), (1828), (1852), (1860), P. 15**

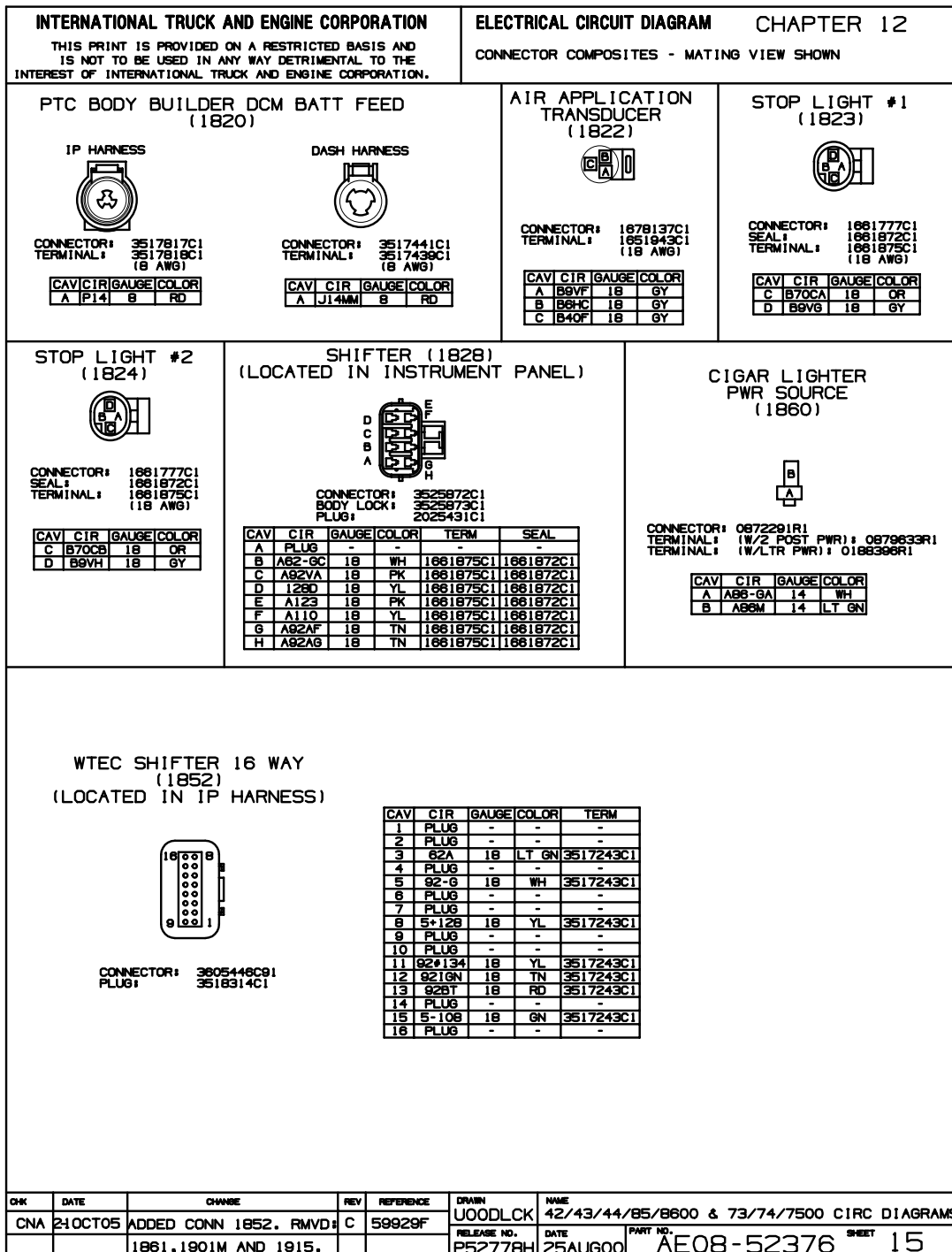


Figure 213 Connector Composites (1820), (1822), (1823), (1824), (1828), (1852), (1860)

12.21. CONNECTOR COMPOSITES (1861), (1901M), (1905), (1906), (1915), P. 15A

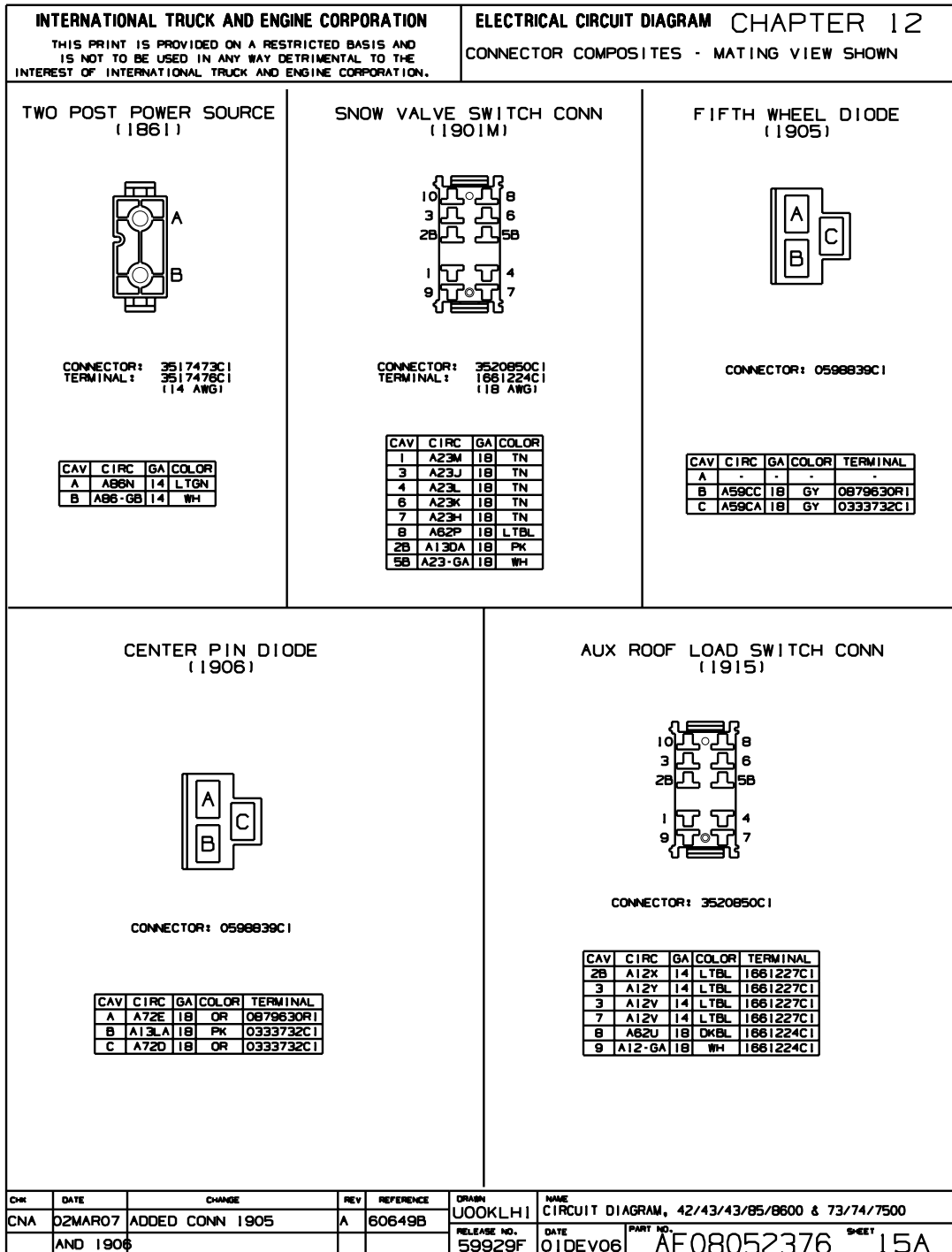


Figure 214 Connector Composites (1861), (1901M), (1905), (1906), (1915)



12.22. CONNECTOR COMPOSITES (1918), (1935), (1920), (2000), (2002M), (2003M), (2004M), (2005M), P. 16

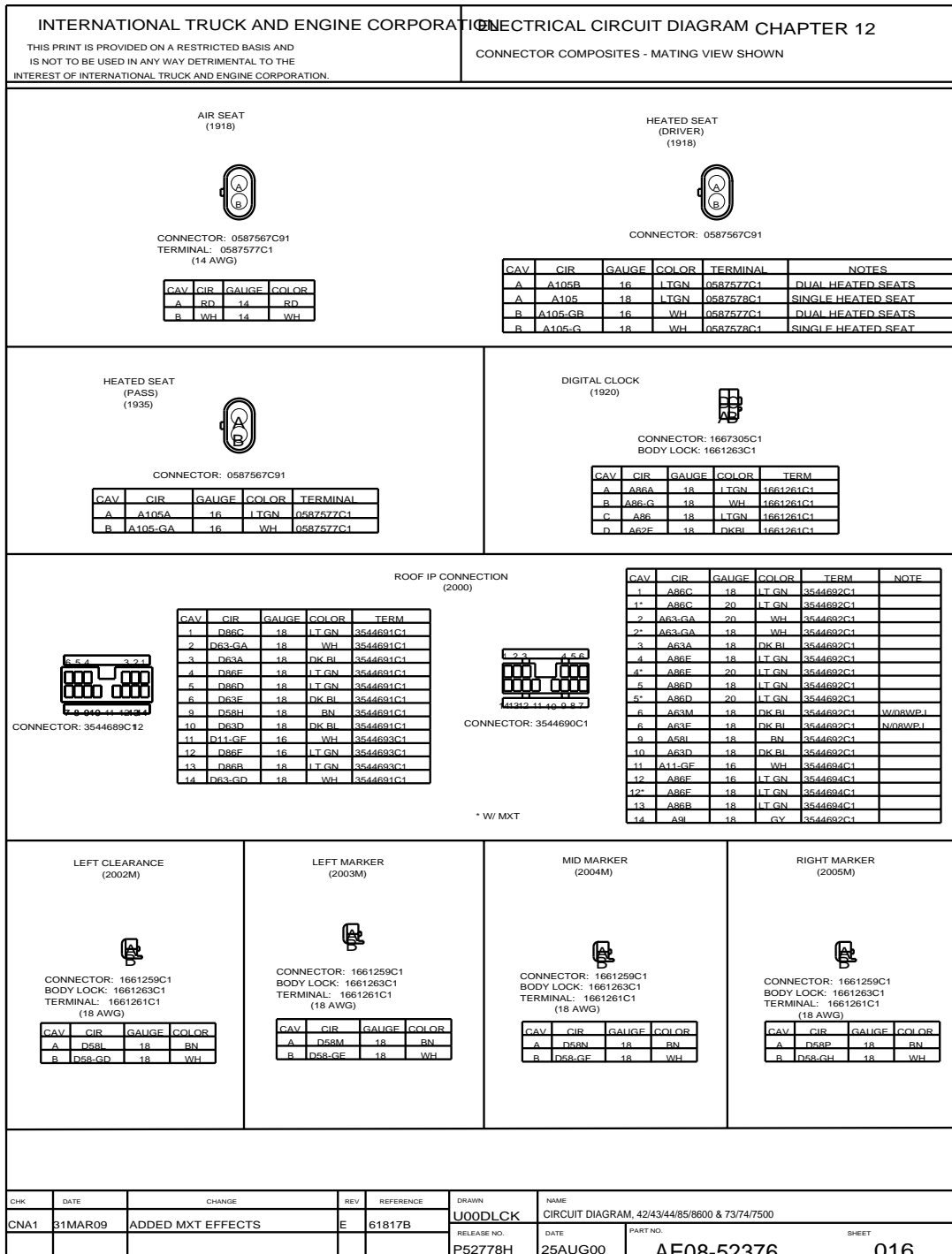


Figure 215 Connector Composites (1918), (1935), (1920), (2000), (2002M), (2003M), (2004M), (2005M)

**12.23. CONNECTOR COMPOSITES (2006M), (2007F), (2021F), (2021M), (2111M), (2112M), (2113M), (2114M), (2115M), (2116M), (2117M), (2301M), (2302M), (2303M), P. 17**















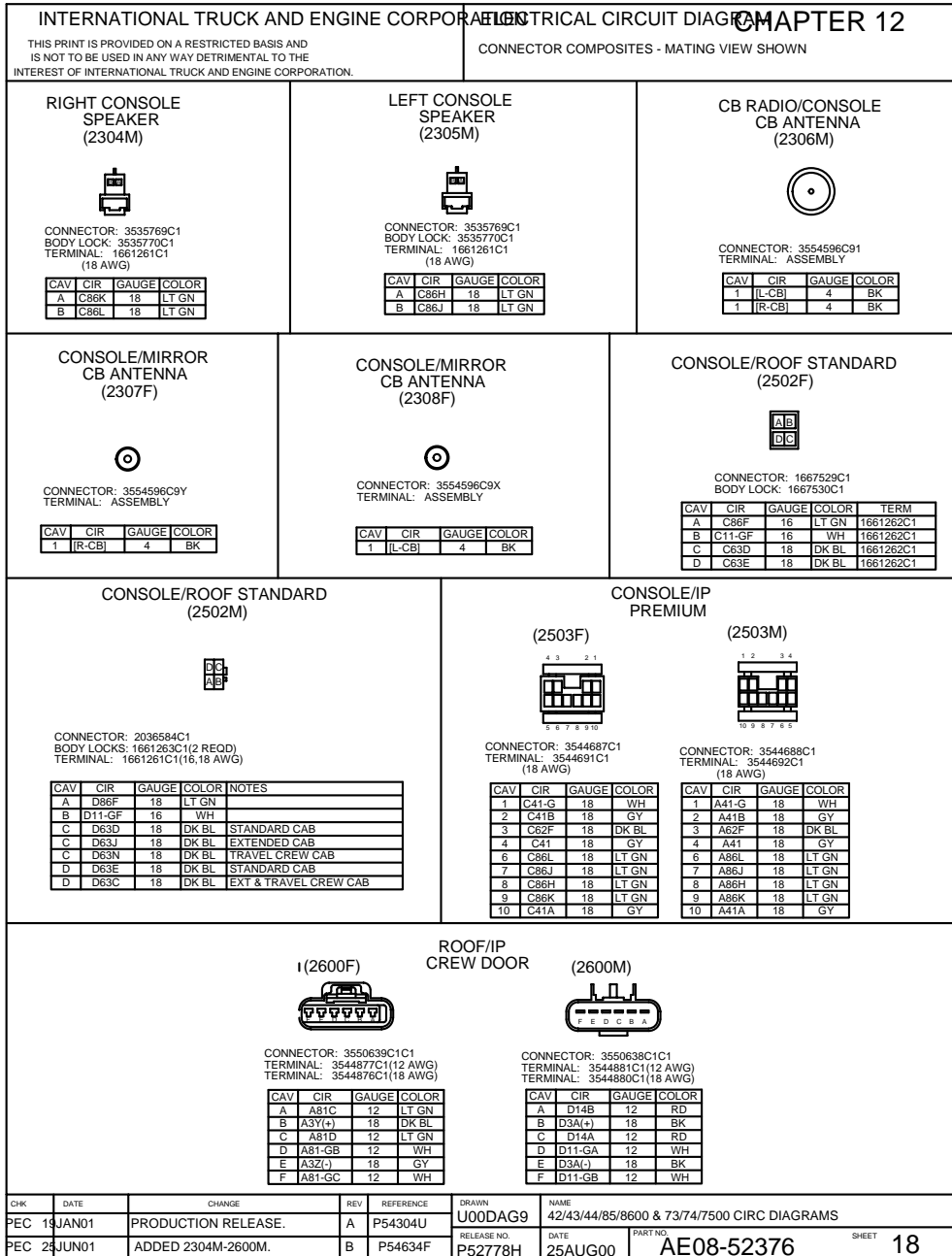
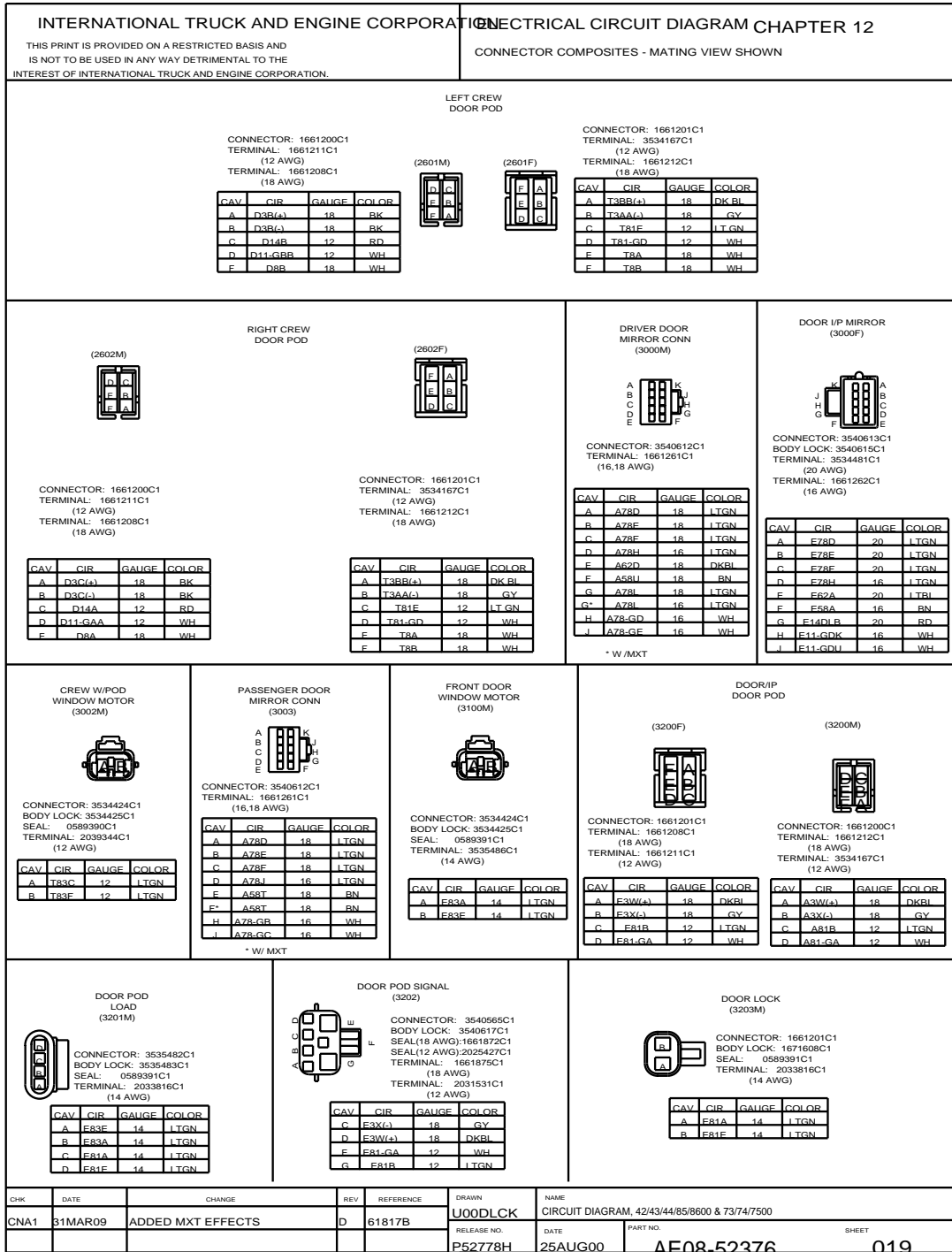
INTERNATIONAL TRUCK AND ENGINE CORPORATION THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF INTERNATIONAL TRUCK AND ENGINE CORPORATION.		ELECTRICAL CIRCUIT DIAGRAM CHAPTER 12 CONNECTOR COMPOSITES - MATING VIEW SHOWN																																																																																													
<p><b>RIGHT CLEARANCE (2006M)</b></p>  <p>CONNECTOR: 1661259C1 BODY LOCK: 1661263C1 TERMINAL: 1661261C1 (18 AWG)</p> <table border="1"> <tr><th>CAV</th><th>CIR</th><th>GAUGE</th><th>COLOR</th></tr> <tr><td>A</td><td>D58R</td><td>18</td><td>BN</td></tr> <tr><td>B</td><td>D58-GJ</td><td>18</td><td>WH</td></tr> </table>	CAV	CIR	GAUGE	COLOR	A	D58R	18	BN	B	D58-GJ	18	WH	<p><b>SUNSHADE (2007F)</b></p>  <p>CONNECTOR: 1661260C1 BODY LOCK: 1661264C1 TERMINAL: 1661262C1 (18 AWG)</p> <table border="1"> <tr><th>CAV</th><th>CIR</th><th>GAUGE</th><th>COLOR</th></tr> <tr><td>A</td><td>D58T</td><td>18</td><td>BN</td></tr> <tr><td>B</td><td>D58-GL</td><td>18</td><td>WH</td></tr> </table>	CAV	CIR	GAUGE	COLOR	A	D58T	18	BN	B	D58-GL	18	WH	<p><b>AUX ROOF/IP CONNECTION (2021F)</b></p>  <p>CONNECTOR: 3554818C1 BODY LOCK: 3554821C1 TERMINAL: 3534167C1 (14AWG) TERMINAL: 1661212C1 (18AWG)</p> <table border="1"> <tr><th>CAV</th><th>CIR</th><th>GAUGE</th><th>COLOR</th></tr> <tr><td>A</td><td>D58W</td><td>14</td><td>BN</td></tr> <tr><td></td><td>BK</td><td>18</td><td>BK</td></tr> <tr><td>B</td><td>D58-GW</td><td>14</td><td>WH</td></tr> <tr><td></td><td>WH</td><td>18</td><td>WH</td></tr> </table>	CAV	CIR	GAUGE	COLOR	A	D58W	14	BN		BK	18	BK	B	D58-GW	14	WH		WH	18	WH	<p><b>IP/AUX ROOF CONNECTION (2021M)</b></p>  <p>CONNECTOR: 3554817C1 BODY LOCK: 3554820C1 TERMINAL: 3534165C1 (14AWG) TERMINAL: 3534164C1 (18AWG)</p> <table border="1"> <tr><th>CAV</th><th>CIR</th><th>GAUGE</th><th>COLOR</th></tr> <tr><td>A</td><td>A12U</td><td>14</td><td>LTBL</td></tr> <tr><td></td><td>A58AD</td><td>18</td><td>BN</td></tr> <tr><td>B</td><td>A12-GB</td><td>14</td><td>WH</td></tr> <tr><td></td><td>A11-GHF</td><td>18</td><td>WH</td></tr> </table>	CAV	CIR	GAUGE	COLOR	A	A12U	14	LTBL		A58AD	18	BN	B	A12-GB	14	WH		A11-GHF	18	WH																												
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<p><b>RIGHT DOOR DOME SWITCH (2111M)</b></p>  <p>CONNECTOR: 2036584C1 TERMINAL: 2036586C1 (18 AWG)</p> <table border="1"> <tr><th>CAV</th><th>CIR</th><th>GAUGE</th><th>COLOR</th></tr> <tr><td>A</td><td>D63B</td><td>18</td><td>DKBL</td></tr> <tr><td>B</td><td>D6N</td><td>18</td><td>GY</td></tr> </table>	CAV	CIR	GAUGE	COLOR	A	D63B	18	DKBL	B	D6N	18	GY	<p><b>LEFT DOOR DOME SWITCH (2112M)</b></p>  <p>CONNECTOR: 2036584C1 TERMINAL: 2036586C1 (18 AWG)</p> <table border="1"> <tr><th>CAV</th><th>CIR</th><th>GAUGE</th><th>COLOR</th><th>NOTES</th></tr> <tr><td>A</td><td>D63H</td><td>18</td><td>DKBL</td><td></td></tr> <tr><td></td><td>D63A</td><td>18</td><td>DKBL</td><td>PTC</td></tr> <tr><td>B</td><td>D9D</td><td>18</td><td>GY</td><td></td></tr> <tr><td></td><td>D9L</td><td>18</td><td>GY</td><td>PTC</td></tr> </table>	CAV	CIR	GAUGE	COLOR	NOTES	A	D63H	18	DKBL			D63A	18	DKBL	PTC	B	D9D	18	GY			D9L	18	GY	PTC	<p><b>RIGHT CREW DOOR DOME SWITCH (2113M)</b></p>  <p>CONNECTOR: 2036584C1 TERMINAL: 2036586C1 (18 AWG)</p> <table border="1"> <tr><th>CAV</th><th>CIR</th><th>GAUGE</th><th>COLOR</th></tr> <tr><td>A</td><td>D63J</td><td>18</td><td>DKBL</td></tr> <tr><td>B</td><td>D9W</td><td>18</td><td>GY</td></tr> </table>	CAV	CIR	GAUGE	COLOR	A	D63J	18	DKBL	B	D9W	18	GY	<p><b>LEFT CREW DOOR DOME SWITCH (2114M)</b></p>  <p>CONNECTOR: 2036584C1 TERMINAL: 2036586C1 (18 AWG)</p> <table border="1"> <tr><th>CAV</th><th>CIR</th><th>GAUGE</th><th>COLOR</th></tr> <tr><td>A</td><td>D63K</td><td>18</td><td>DKBL</td></tr> <tr><td>B</td><td>D9Y</td><td>18</td><td>GY</td></tr> </table>	CAV	CIR	GAUGE	COLOR	A	D63K	18	DKBL	B	D9Y	18	GY																															
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<p><b>REAR DOME LIGHT (2115M)</b></p>  <p>CONNECTOR: 1661889C1 BODY LOCK: 1661890C1 TERMINAL: 1661261C1 (18 AWG)</p> <table border="1"> <tr><th>CAV</th><th>CIR</th><th>GAUGE</th><th>COLOR</th></tr> <tr><td>A</td><td>D63L</td><td>18</td><td>DKBL</td></tr> <tr><td>B</td><td>D63-GH</td><td>18</td><td>WH</td></tr> <tr><td>C</td><td>D63K</td><td>18</td><td>DKBL</td></tr> </table>	CAV	CIR	GAUGE	COLOR	A	D63L	18	DKBL	B	D63-GH	18	WH	C	D63K	18	DKBL	<p><b>DOME LAMP (2116M)</b></p>  <p>CONNECTOR: 3536187C1 BODY LOCK: 1661890C1 TERMINAL: 1661261C1 (18 AWG)</p> <table border="1"> <tr><th>CAV</th><th>CIR</th><th>GAUGE</th><th>COLOR</th><th>NOTES</th></tr> <tr><td>A</td><td>D63D</td><td>18</td><td>DKBL</td><td></td></tr> <tr><td>B</td><td>D63-GE</td><td>18</td><td>WH</td><td>W/DUAL CB</td></tr> <tr><td></td><td>C11-GF</td><td>18</td><td>WH</td><td>W/O CB</td></tr> <tr><td>C</td><td>C63E</td><td>18</td><td>DKBL</td><td></td></tr> </table>	CAV	CIR	GAUGE	COLOR	NOTES	A	D63D	18	DKBL		B	D63-GE	18	WH	W/DUAL CB		C11-GF	18	WH	W/O CB	C	C63E	18	DKBL		<p><b>DOME/READING LIGHT COMPASS/TEMP UNIT (2117M)</b></p>  <p>CONNECTOR: 3515762C1 BODY LOCK: 3515764C1-2 TERMINAL: 1661261C1 (18 AWG)</p> <table border="1"> <tr><th>CAV</th><th>CIR</th><th>GAUGE</th><th>COLOR</th></tr> <tr><td>A</td><td>C41-G</td><td>18</td><td>WH</td></tr> <tr><td>B</td><td>C63-GE</td><td>18</td><td>WH</td></tr> <tr><td>C</td><td>C63D</td><td>18</td><td>DKBL</td></tr> <tr><td>D</td><td>C41B</td><td>18</td><td>GY</td></tr> <tr><td>E</td><td>C62F</td><td>18</td><td>DKBL</td></tr> <tr><td>F</td><td>C63E</td><td>18</td><td>DKBL</td></tr> <tr><td>G</td><td>C41</td><td>18</td><td>GY</td></tr> <tr><td>H</td><td>C41A</td><td>18</td><td>GY</td></tr> </table>	CAV	CIR	GAUGE	COLOR	A	C41-G	18	WH	B	C63-GE	18	WH	C	C63D	18	DKBL	D	C41B	18	GY	E	C62F	18	DKBL	F	C63E	18	DKBL	G	C41	18	GY	H	C41A	18	GY	<p><b>RIGHT REAR SPEAKER (2301M)</b></p>  <p>CONNECTOR: 3535769C1 TERMINAL: 3535770C1</p> <table border="1"> <tr><th>CAV</th><th>CIR</th><th>GAUGE</th><th>COLOR</th><th>TERM</th></tr> <tr><td>A</td><td>D66D</td><td>18</td><td>LTGN</td><td>1661261C1</td></tr> <tr><td>B</td><td>D66E</td><td>18</td><td>LTGN</td><td>1661261C1</td></tr> </table>	CAV	CIR	GAUGE	COLOR	TERM	A	D66D	18	LTGN	1661261C1	B	D66E	18	LTGN	1661261C1
CAV	CIR	GAUGE	COLOR																																																																																												
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<p><b>LEFT REAR SPEAKER (2302M)</b></p>  <p>CONNECTOR: 3535769C1 TERMINAL: 3535770C1 TERMINAL: 1661261C1 (18 AWG)</p> <table border="1"> <tr><th>CAV</th><th>CIR</th><th>GAUGE</th><th>COLOR</th></tr> <tr><td>A</td><td>D66B</td><td>18</td><td>LTGN</td></tr> <tr><td>B</td><td>D66C</td><td>18</td><td>LTGN</td></tr> </table>	CAV	CIR	GAUGE	COLOR	A	D66B	18	LTGN	B	D66C	18	LTGN	<p><b>CB RADIO POWER (2303M)</b></p>  <p>CONNECTOR: 1661197C1 TERMINAL: 1661212C1 (18 AWG)</p> <table border="1"> <tr><th>CAV</th><th>CIR</th><th>GAUGE</th><th>COLOR</th></tr> <tr><td>A</td><td>C86F</td><td>18</td><td>LTGN</td></tr> <tr><td>B</td><td>C86-G</td><td>18</td><td>WH</td></tr> </table>	CAV	CIR	GAUGE	COLOR	A	C86F	18	LTGN	B	C86-G	18	WH																																																																						
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A	C86F	18	LTGN																																																																																												
B	C86-G	18	WH																																																																																												
<table border="1"> <tr><th>CHK</th><th>DATE</th><th>CHANGE</th><th>REV</th><th>REFERENCE</th><th>DRAWN</th><th>NAME</th></tr> <tr><td>CNA</td><td>22DEC05</td><td>COMBINED 2021F/2022F AND 2021M/2022M.</td><td>C</td><td>59581V</td><td>UOODLCK</td><td>42/43/44/85/8600 &amp; 73/74/7500 CIRC DIAGRAMS</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td>RELEASE NO. P52778H</td><td>DATE 25AUG00 PART NO. AE08-52376 SHEET 17</td></tr> </table>	CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	CNA	22DEC05	COMBINED 2021F/2022F AND 2021M/2022M.	C	59581V	UOODLCK	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS						RELEASE NO. P52778H	DATE 25AUG00 PART NO. AE08-52376 SHEET 17																																																																										
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CNA	22DEC05	COMBINED 2021F/2022F AND 2021M/2022M.	C	59581V	UOODLCK	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS																																																																																									
					RELEASE NO. P52778H	DATE 25AUG00 PART NO. AE08-52376 SHEET 17																																																																																									

Figure 216 Connector Composites (2006M), (2007F), (2021F), (2021M), (2111M), (2112M), (2113M), (2114M), (2115M), (2116M), (2117M), (2301M), (2302M), (2303M)

**12.24. CONNECTOR COMPOSITES (2304M), (2305M), (2306M), (2307F), (2308F), (2502F), (2502M), (2503F, M), (2600F, M), P. 18**



**12.25. CONNECTOR COMPOSITES (2601M, F), (2602M, F), (3000M), (3000F), (3002M), (3003), (3100M), (3200F, M), (3201M), (3202), (3203M), P. 19**



12.26. CONNECTOR COMPOSITES (3204M, F), (3209), (3210M), (3211M), (4000), P. 20

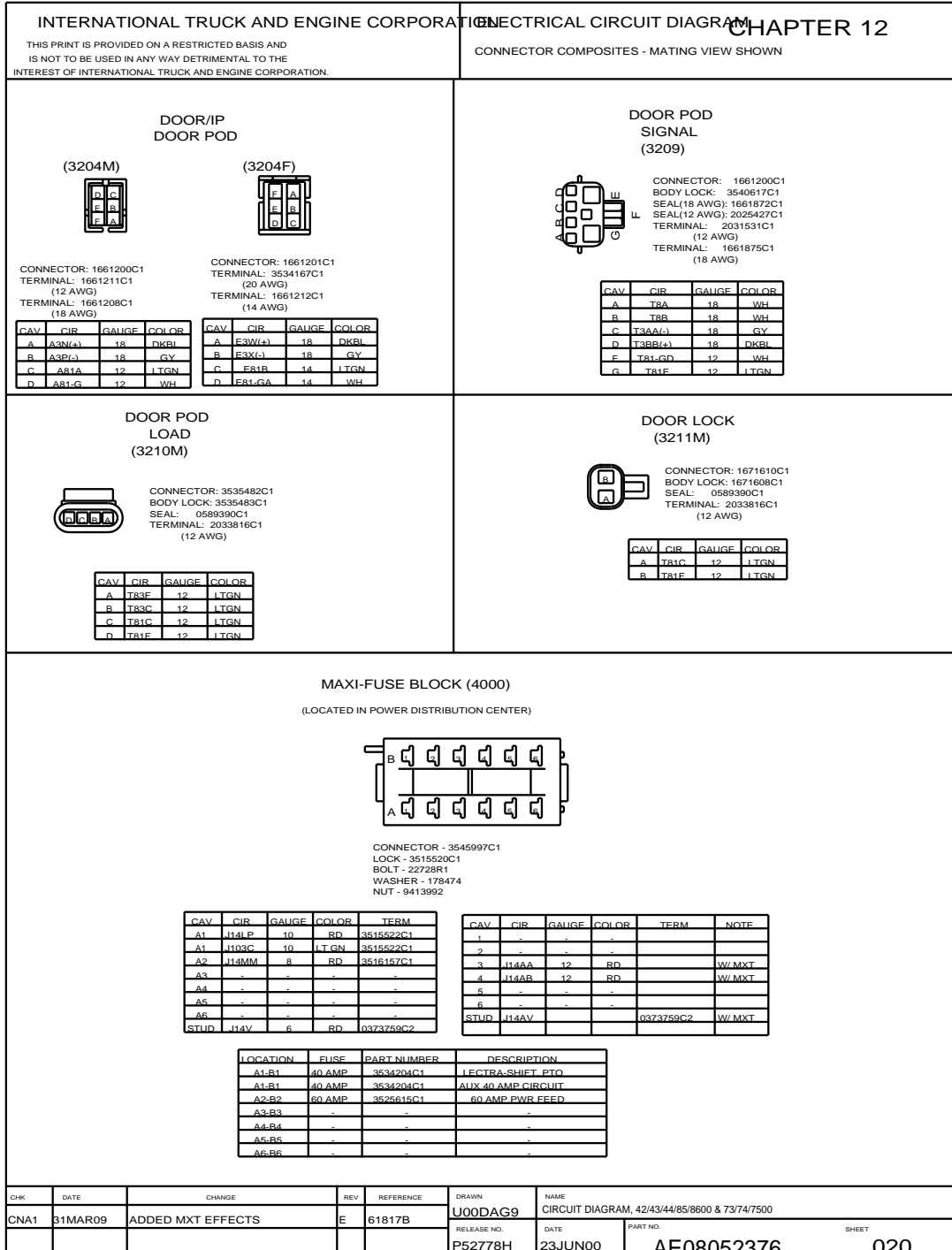


Figure 219 Connector Composites (3204M, F), (3209), (3210M), (3211M), (4000)

12.27. CONNECTOR COMPOSITE (4001), P. 21

INTERNATIONAL TRUCK AND ENGINE CORPORATION ELECTRICAL CIRCUIT DIAGRAM CHAPTER 12  
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CONNECTOR COMPOSITES - MATING VIEW SHOWN

**MINI-FUSE BLOCKS (4001)  
LOCATED IN POWER DISTRIBUTION CENTER)**

CONNECTOR ASSY - 3545599C91  
LOCK - 3536085C1

\* W/ MWM ENGINE  
# W/ MXT

NOTE:  
CIRCUIT NAMES DESIGNATED  
WITH PARENTHESES REPRESENT  
BUSS BARS

CAV	CIR	GAUGE	COLOR	TERM	CAV	CIR	GAUGE	COLOR	TERM
F1-A1	(113S)			3536304C1	F2-A1	(70SA)	10	OR	3515518C1
F1-A2	(113W)			3536304C1	F2-A1	(70SB)	12	OR	3516158C1
F1-A3	(113E)			3536301C1	F2-A2	(114T)			3536303C1
F1-A4	(113T)			3536301C1	F2-A3	(114M)			3536303C1
F1-B1	(71H/171J)	16	OR	3573312C1	F2-A4	(97LD)	16	VT	3573312C1
F1-B1	(71)	16	OR	3573312C1	F2-A4#	(97LD)	16	PI	3573312C1
F1-B2	(24C)	18	GY	3515517C1	F2-B1	(70A)	10	OR	3515518C1
F1-B2	(97DF)	18	TN	3515517C1	F2-B1#	(70A)	20	OR	3515518C1
F1-B2*	(24D)	16	GY	3573312C1	F2-B1	(70B)	10	OR	3573311C1
F1-B3	(94HD)	18	GY	3536295C1	F2-B2	(44J)	18	GY	3515517C1
F1-B3#	(13AB)	18	GY	3536295C1	F2-B3	(72)	12	OR	3516158C1
F1-B4	(37C)	18	TN	3515517C1	F2-B3	(14BB)	14	RD	3516158C1
F1-C1	(113S)			3536304C1	F2-B4	(97LC)	16	VT	3573312C1
F1-C2	(113W)			3536304C1	F2-B4#	(97LC)	16	PI	3573312C1
F1-C3	(113E)			3536301C1	F2-C1	(90HA)	12	GY	3516158C1
F1-C4	(113T)			3536301C1	F2-C2	(114T)			3536303C1
F1-D1	(44N)	16	GY	3573312C1	F2-C3	(114M)			3536303C1
F1-D2	(87KA)	16	GY	3573312C1	F2-C4	(114J)			3536301C1
F1-D2	(87KB)	16	GY	3573312C1	F2-D1	(90H)	18	GY	3515517C1
F1-D3	(113X)	18	PK	3515517C1	F2-D2	(94UA)	12	GY	3573311C1
F1-D3#	(113X)	16	PK	3515517C1	F2-D2	(721A)	12	OR	3573311C1
F1-D4	(81)	18	GY	3515517C1	F2-D3	(26D)	18	TN	3515517C1
F1-E1	(113S)	14	PK	3536304C1	F2-D4	(92FB)	16	TN	3573312C1
F1-E2	(113W)	14	PK	3536304C1	F2-D4	(14AW)	16	TN	3573312C1
F1-E3	(113E)	14	PK	3536301C1	F2-E1	(68F)	12	BN	3516158C1
F1-E4	(113T)	14	PK	3536301C1	F2-E2	(114T)	10	RD	3536303C1
F1-E1	(97U)	18	VT	3515517C1	F2-E2#	(114T)	12	RD	3573311C1
F1-E1#	(97UA)	18	VT	3515517C1	F2-E3	(114M)	10	RD	3536303C1
F1-E1#	(97UA)	16	PI	3515517C1	F2-E3#	(114M)	12	RD	3573311C1
F1-E1*	(113A)	14	PK	3573312C1	F2-E4	(114J)	10	RD	3536298C1
F1-E2	(94AY)	12	GY	3573311C1	F2-E4#	(114J)	12	RD	3536298C1
F1-E3	(39A)	16	GY	3536295C1	F2-E1	(68BB)	16	BN	3573311C1
F1-E4	(92J)	18	TN	3515517C1	F2-E1	(68BB)	14	BN	3516158C1
F1-E4#	(113S)	18	TN	3515517C1	F2-E1	(68F)	12	BN	3516158C1
F1-G1	(113S)			3536304C1	F2-F1	(68F)	16	BN	3536295C1
F1-G1#	(113W)			3536304C1	F2-F1	(57T)	12	OR	3516158C1
F1-G2	(113W)			3536304C1	F2-F3	(114W)	16	RD	3515517C1
F1-G2#	(70BS)	14	OR	-	F2-F3	(114W)	16	RD	3536295C1
F1-G3	(70BA)	14	OR	3516158C1	F2-F3	(114X)	16	RD	3515517C1
F1-G3	(70BS)	14	OR	3516158C1	F2-F3	(114X)	16	RD	3536295C1
F1-G4	(97HA)	18	VT	3515517C1	F2-F4	(94HC)	14	GY	3516158C1
F1-G4#	(97HA)	16	PI	3515517C1	F2-F4#	(114G)	12	RD	3516158C1
F1-H1	(23E)	18	TN	3515519C1	F2-G1	(58E)	12	BN	3516158C1
F1-H1	(237)	18	TN	3536295C1	F2-G2	(114T)			3536303C1
F1-H1*	(23)	16	TN	3573312C1	F2-G3	(114M)			3536303C1
F1-H2	(92H146)	18	TN	3515517C1	F2-G4	(114J)			3536298C1
F1-H2	(113M)	18	PK	3515517C1	F2-H1	(58BB)	14	BN	3516158C1
F1-H2#	(113M)	16	PK	3515517C1	F2-H1	(58E)	12	BN	3536295C1
F1-H3	(70BB)	14	OR	3516158C1	F2-H1	(58E)	16	BN	3536295C1
F1-H4	(97HB)	18	VT	3515517C1	F2-H1	(58BB)	16	BN	3536295C1
F1-H4#	(97HB)	16	PI	3515517C1	F2-H2	(56T)	12	OR	3516158C1
					F2-H3	(119)	16	GY	3515517C1
					F2-H4	(94H)	14	GY	3516158C1
					F2-H4	(94AB)	14	GY	3516158C1

**MINI-FUSE BLOCKS (4001)**

FUSE	PART NUMBER	DESCRIPTION	LOCATION	FUSE	PART NUMBER	DESCRIPTION
10 AMP	3534209C1	BACK UP LAMPS	E2-A1&R1	30 AMP	3534213C1	TRAILER STOP LAMPS
5 AMP	3534208C1	POWER PARK BRAKE	F2-C1&D1	5 AMP	3534208C1	HYDRAMAX SENSE
5 AMP	3534208C1	ENGINE IGN	F2-E1&F1	20 AMP	3534211C1	TRAILER/BODY TAIL LAMPS
10 AMP	3534209C1	FAN SOLENOID	F2-G1&H1	20 AMP	3534211C1	TRAILER/BODY MARKER LAMPS
5 AMP	3534208C1	FAN CLUTCH	F2-A2&B2	5 AMP	3534208C1	AIR ACT PARK BRAKE (AUTO APPLY)
5 AMP	3534208C1	EXHAUST BRAKE	F2-C2&D2	30 AMP	3534213C1	TRAILER ABS
5 AMP	3534208C1	WASHER PUMP	F2-C2&D2	30 AMP	3534213C1	TRAILER AUX FEED
-	-	-	F2-E2&F2	15 AMP	3534210C1	TRAILER RIGHT TURNS
10 AMP	3534209C1	XMSN IGN/NEUTRAL	F2-G2&H2	15 AMP	3534210C1	TRAILER LEFT TURNS
5 AMP	3534208C1	HYD ABS ECU/IGN	F2-A3&B3	25 AMP	3534212C1	TRAILER BODY/BUILDER ACC
10 AMP	3534209C1	IGNITION	F2-A3&B3	20 AMP	3534212C1	BODY BUILDER ACC
20 AMP	3534211C1	AIR DRIVER/RAIN VALVE	F2-C3&D3	5 AMP	3534208C1	PAM MODULE
15 AMP	3534210C1	BODY BUILDER STOP LAMPS	F2-E3&F3	5 AMP	3534208C1	REMOTE POWER MODULES
10 AMP	3534209C1	FUEL TRANSFER PUMP	F2-G3&H3	20 AMP	3534211C1	FUEL HEATER
5 AMP	3534208C1	AIR SUSPENSION	F2-A4&B4	30 AMP	3534213C1	AUTOSHIFT XMSN
5 AMP	3534208C1	AUTO NEUTRAL	F2-C4&D4	-	-	-
5 AMP	3534208C1	V8 ENGINE ECM	F2-E4&F4	30 AMP	3534213C1	AIR ABS ECU
			F2-E4&F4	30 AMP	3534213C1	HYD ABS MODULATOR
			F2-G4&H4	25 AMP	3534212C1	HYD ABS ECU/BATT
			F2-A3&B3	20 AMP	3534211C1	BODY BUILDER ACCESSORY

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
CNA1	31MAR09	ADDED MXT EFFECTS	H	61817B	U00DAG9	CIRCUIT DIAGRAM, 42/43/44/85/8600 & 73/74/7500
					RELEASE NO.	DATE
					P52778H	21JUN00
						PART NO.
						AE08052376
						SHEET
						021

Figure 220 Connector Composite (4001)

12.28. CONNECTOR COMPOSITE (4002), P. 22

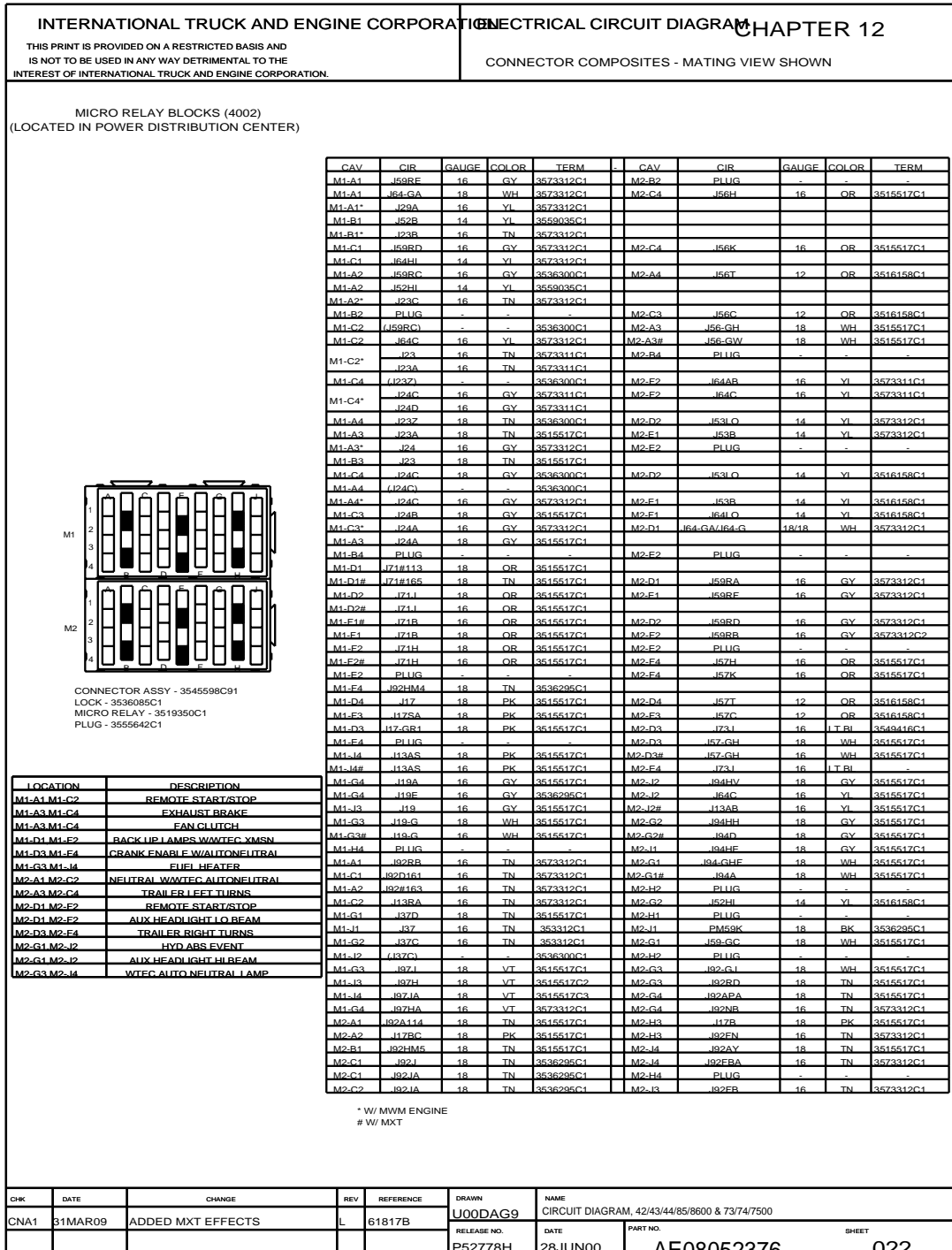


Figure 221 Connector Composite (4002)

12.29. CONNECTOR COMPOSITE (4003), P. 23

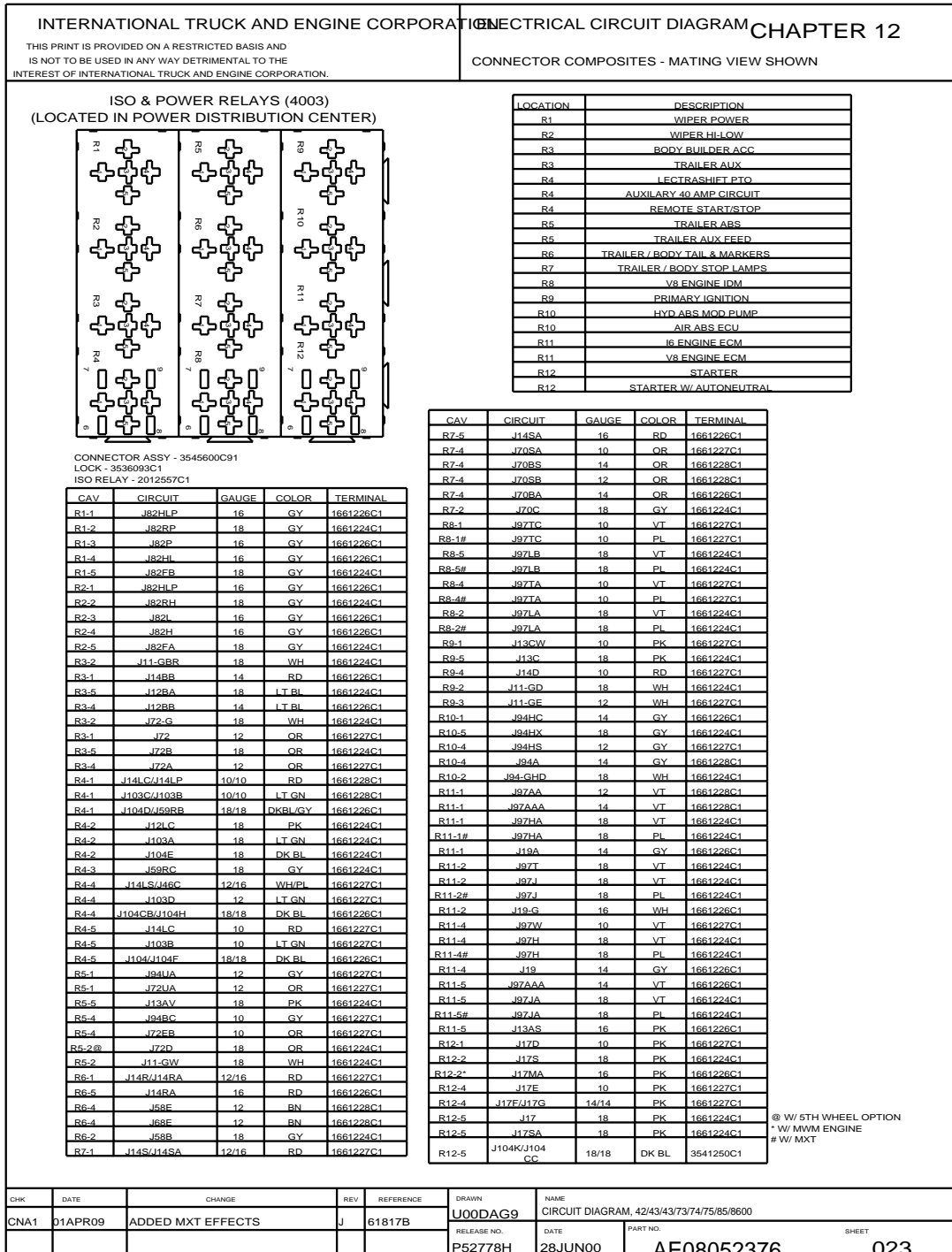


Figure 222 Connector Composite (4003)

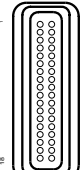


12.30. CONNECTOR COMPOSITES (4004), (4007), (4008), P. 24

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**SYSTEM CONTROLLER (4004)**  
(LOCATED ON EXTERIOR DASH PANEL LEFT SIDE)



CONNECTOR - 3533834C1  
BACKSHELL - 3533832C1  
CPA - 3533836C1  
RETAINER - 3533833C1  
COVER - 3533834C1  
SEAL - 3533835C1  
PLUG - 3518314C1


\* W/ MXT VEHICLE

CAV	CIR	GAUGE	COLOR	TERM	NOTES
1	J32A	18	TN	3517243C1	
2	J32	18	TN	3517243C1	W/ AXLE TEMP
3	J31	18	TN	3517243C1	
3	J31F	18	TN	3517243C1	
3	J88B	18	LT GN	3517243C1	W/ HOURMETER
3*	TR-C	-	-	-	
4	J36B	18	TN	3517243C1	
5	J36A	18	TN	3517243C1	
6	J77A	20	LT GN	3517243C1	
7	J77D	20	LT GN	3517243C1	
8	J77C	20	LT GN	3517243C1	
9	J104A	18	DK BL	3517243C1	
10	J30A	18	TN	3517243C1	
11	J18D	18	GY	3517243C1	
11	J18C	18	GY	3517243C1	
12	J87C	18	GY	3517243C1	
12	J87CA	18	GY	3517243C1	
13	J61C	18	GY	3517243C1	
13	J94HH	18	GY	3517243C1	W/ HYD ABS
13	J40F	18	GY	3517243C1	W/ AIR APP GAUGE
14	PLUG	-	-	-	
15	J70NV	18	RD	3517243C1	
15	PLUG	-	-	-	
16	J44M	18	GY	3517243C1	
17	J58B	18	GY	3517243C1	
18	J93	18	TN	3517243C1	W/ 2SPD AXLE & MAN XMSN

CAV	CIR	GAUGE	COLOR	TERM
19	J92DL	18	TN	3517243C1
19	J92RD	18	TN	3517243C1
20	J82BH	18	GY	3517243C1
21	J70C	18	GY	3517243C1
22	J69C	18	GY	3517243C1
23	J94HP	18	GY	3517243C1
24	J59B	18	GY	3517243C1
25	J37D	18	TN	3517243C1
26	J9A	18	GY	3517243C1
27	J6A	18	GY	3517243C1
28	J90J	18	GY	3517243C1
28	J82RP	18	GY	3517243C1
30	J59D	18	GY	3517243C1
31	J59A	18	GY	3517243C1
32	J104	18	DKBL	3517243C1
32	J64AB	18	YL	3517243C1
33	PLUG	-	-	-
33*	J70G	18	GY	
34	J5M(+)	20	YL	3517243C1
35	J5M(-)	20	GN	3517243C1
36	PLUG	-	-	-

**SYSTEM CONTROLLER BROWN (4007)**



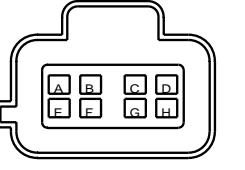
CONNECTOR - 3548934C1  
LOCK - 3548943C1  
PLUG - 3535938C1

(LOCATED ON EXTERIOR DASH PANEL LEFT SIDE)

CAV	CIR	GAUGE	COLOR	TERM	SEAL	NOTES
A	J64A	12	BN	3534163C1	3548945C1	W/FOG LIGHTS
B	J57AA	16	OR	3535930C1	3535938C1	
C	J56AA	16	OR	3535930C1	3535938C1	
D	J53A	14	YL	3535931C1	3535937C1	N/AUX HEADLIGHTS
D	J53LO	14	YL	3535931C1	3535937C1	W/AUX HEADLIGHTS
E	J85AA	16	GY	3535930C1	3535938C1	
F	J65	16	OR	3535930C1	3535938C1	
G	J52HI	14	YL	3535931C1	3535937C1	W/AUX HEADLIGHTS
G	J52A	14	YL	3535931C1	3535937C1	N/AUX HEADLIGHTS
H	J58A	14	BN	3535931C1	3535937C1	

**SYSTEM CONTROLLER BLUE (4008)**



CONNECTOR - 3548933C1  
LOCK - 3548943C1  
PLUG - 3535938C1

(LOCATED ON EXTERIOR DASH PANEL LEFT SIDE)

CAV	CIR	GAUGE	COLOR	TERM	SEAL	NOTES
A	J59F	16	GY	3535930C1	3535938C1	W/SOLENOID 7-PACK
A	J59E	14	GY	3535931C1	3535937C1	W/SOLENOID 4-PACK
B	J57J	16	OR	3535930C1	3535938C1	
C	J56J	16	OR	3535930C1	3535938C1	
D	J90HA	12	GY	3534163C1	3548945C1	
E	PLUG	-	-	-	-	
F	J82F	16	GY	3535930C1	3535938C1	
G	J77B	16	LT GN	3535930C1	3535938C1	
H	PLUG	-	-	-	-	

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
CNA1	31MAR09	ADDED MXT EFFECTS	H	61817B	U00DAG9	CIRCUIT DIAGRAM, 42/43/44/85/8600 & 73/74/7500
					RELEASE NO. P52778H	DATE 26 JUN 00
						PART NO. AE08-52376
						SHEET 024

Figure 223 Connector Composites (4004), (4007), (4008)

12.31. CONNECTOR COMPOSITE (4014), P. 25

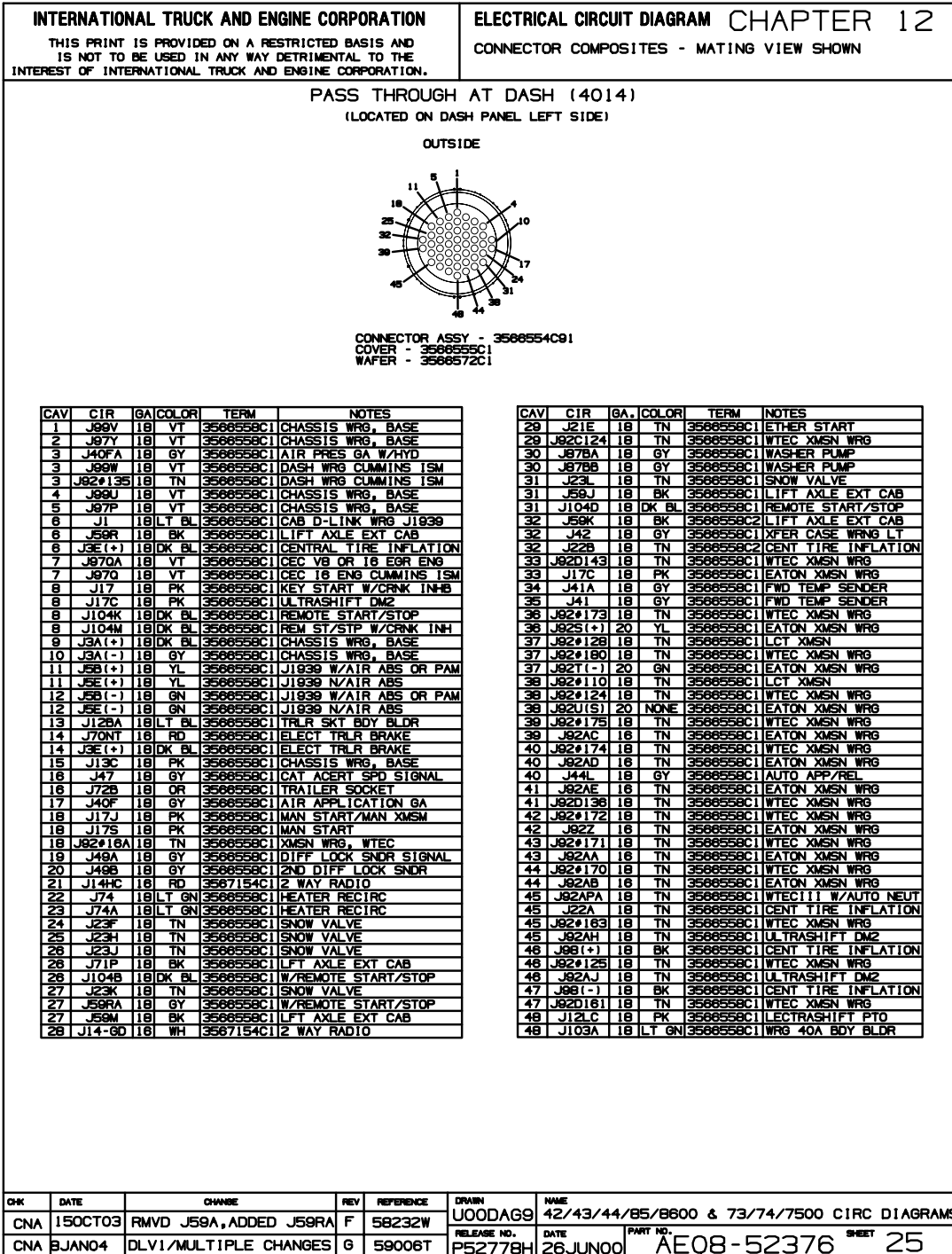


Figure 224 Connector Composite (4014)

12.32. CONNECTOR COMPOSITE (4014/1700), P. 26

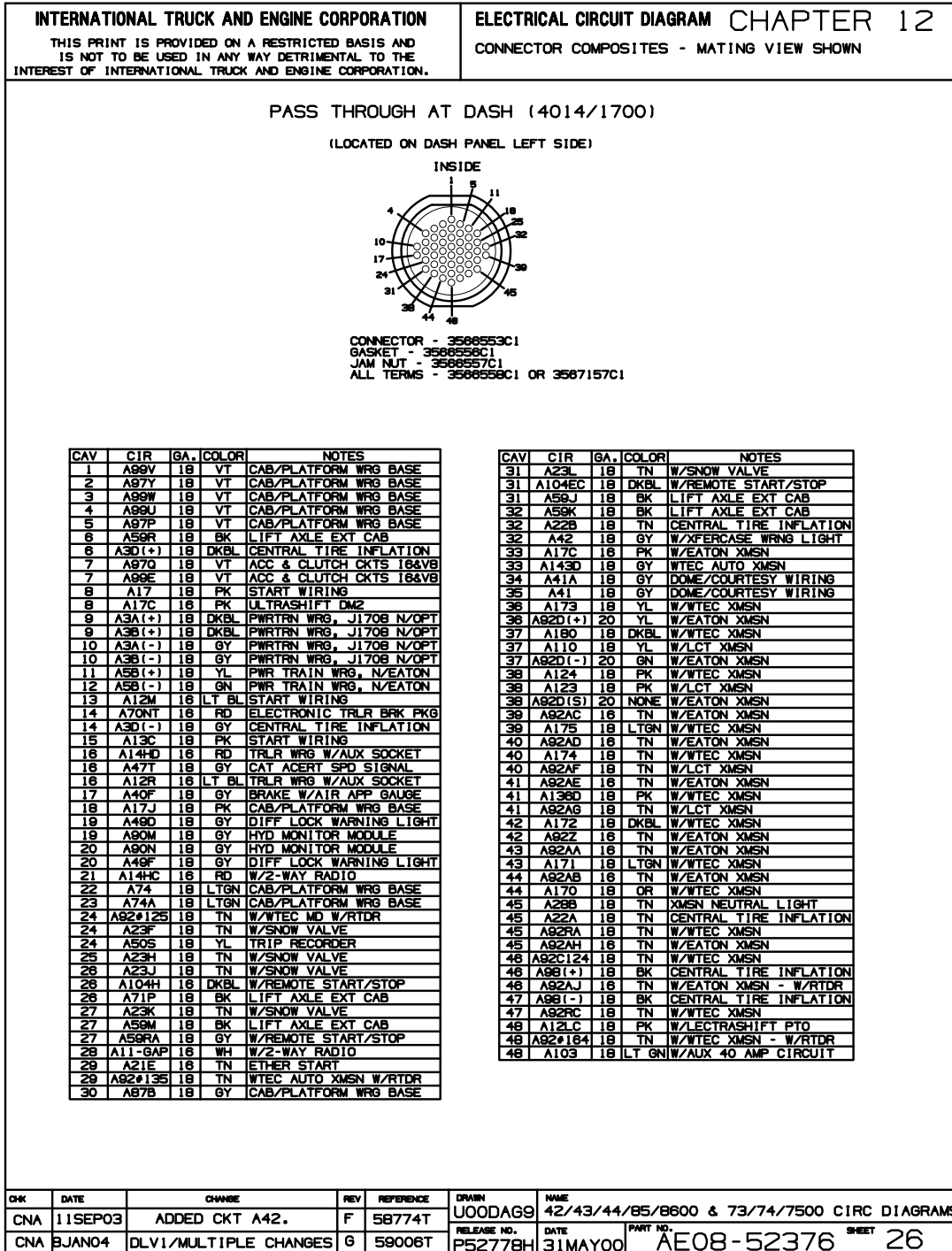


Figure 225 Connector Composite (4014/1700)

12.33. CONNECTOR COMPOSITES (4015), (4017), (4018), (4019), (4020), (4021), (4022), (4023), P. 27

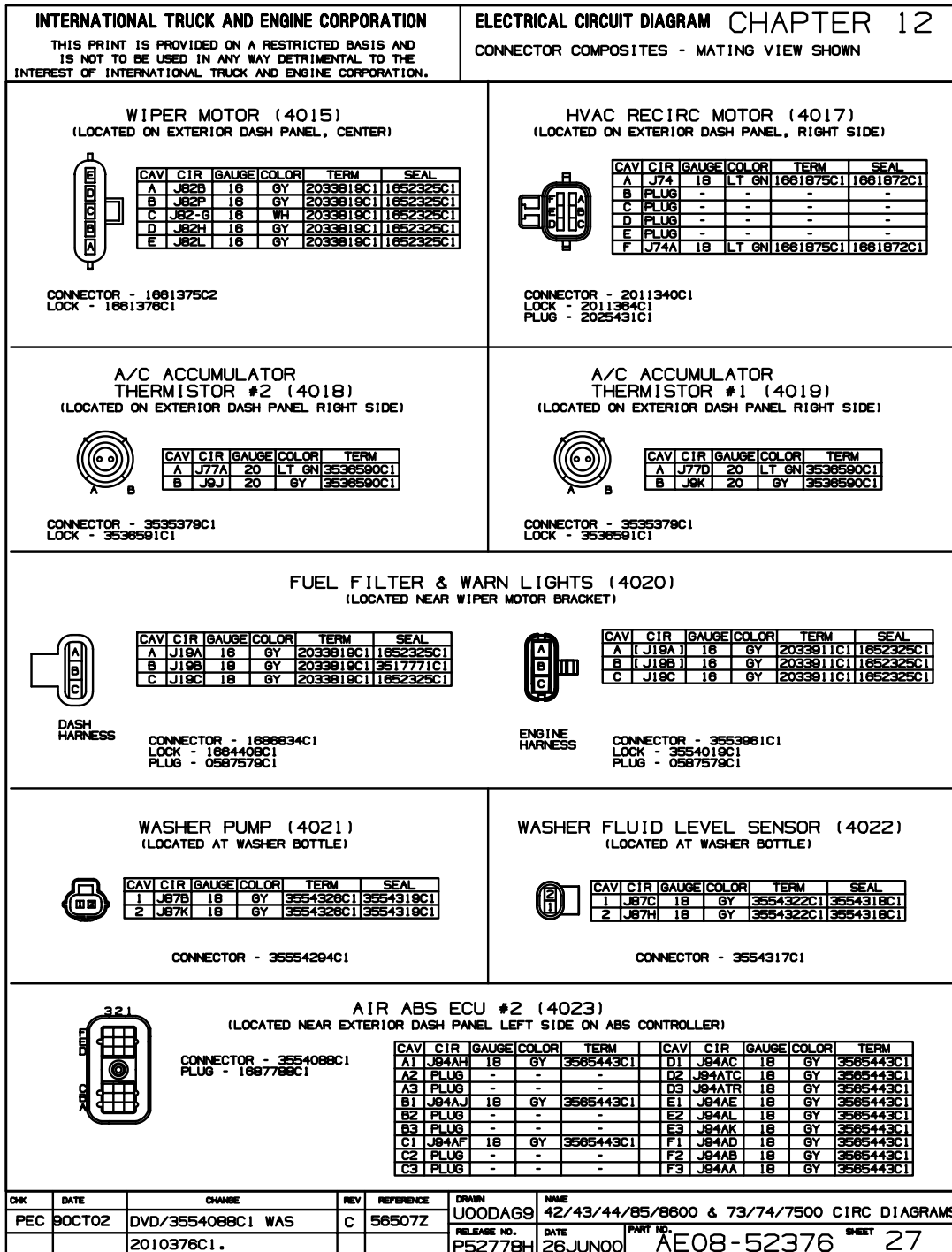


Figure 226 Connector Composites (4015), (4017), (4018), (4019), (4020), (4021), (4022), (4023)

**12.34. CONNECTOR COMPOSITES (4024), (4030), (4031), (4032), (4033), (4037), (4038), (4040), (4041), (4070), (4071), P. 28**

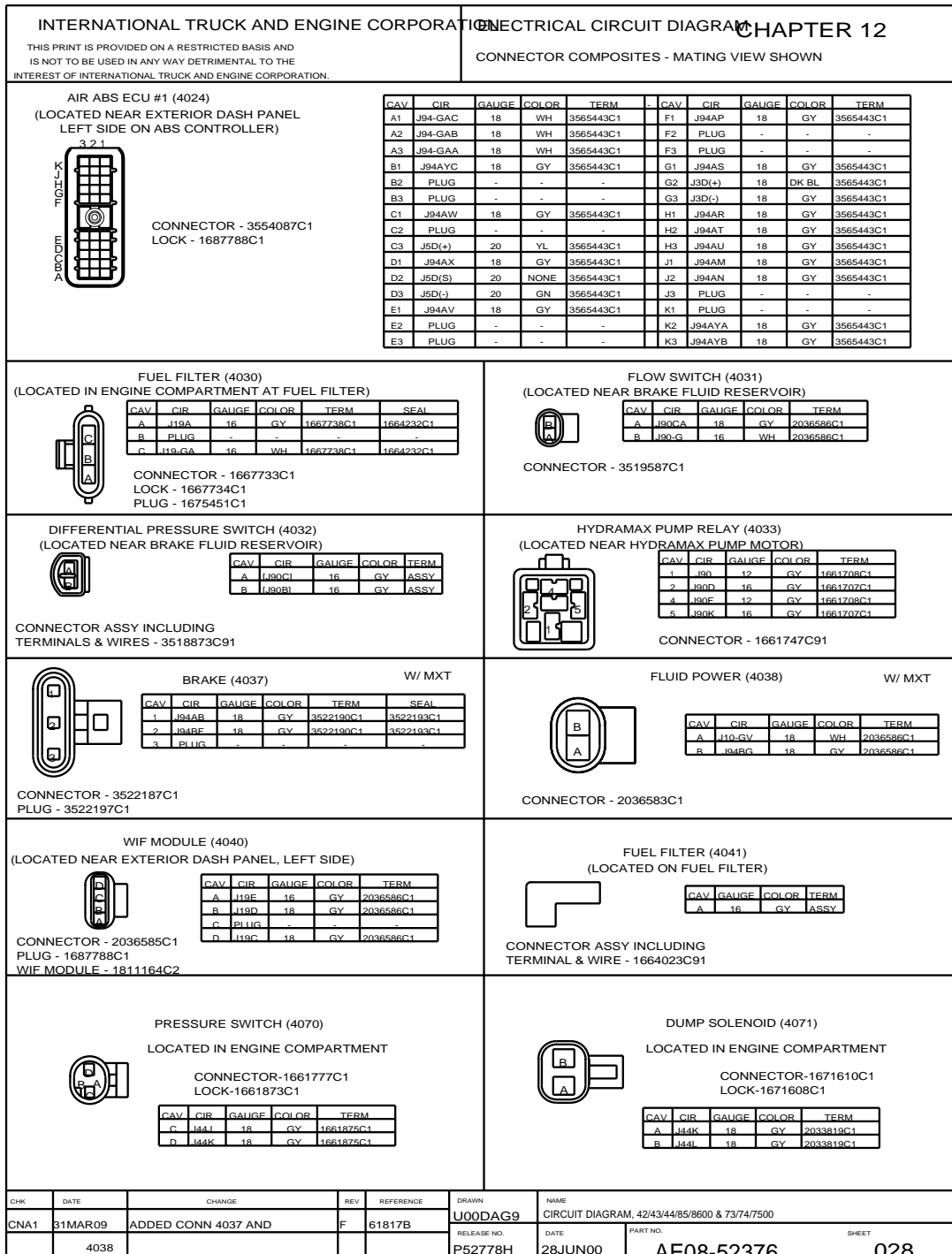


Figure 227 Connector Composites (4024), (4030), (4031), (4032), (4033), (4037), (4038), (4040), (4041), (4070), (4071)

12.35. CONNECTOR COMPOSITES (4087), (4088), (4100), (4101), (4109), (4112), P. 29

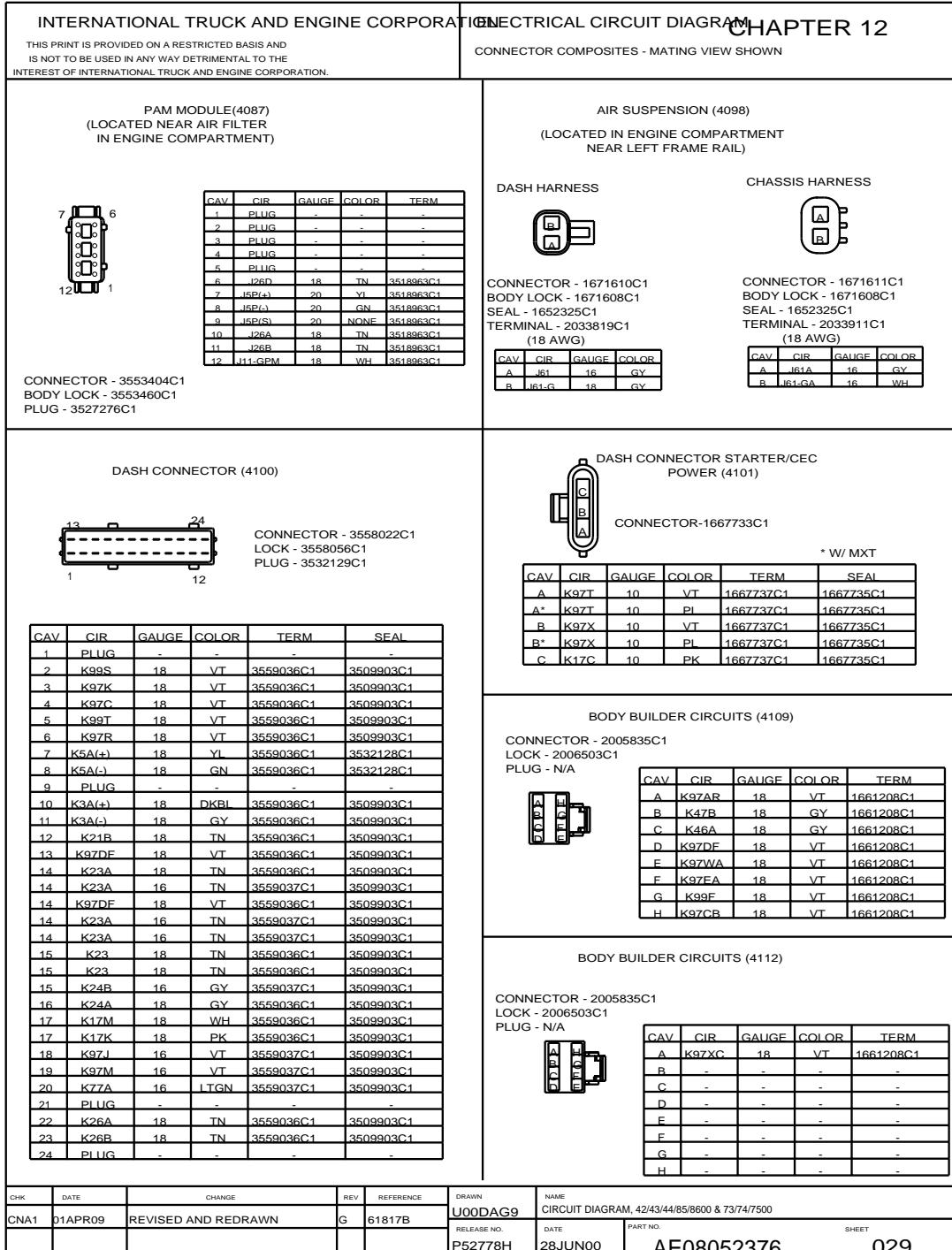


Figure 228 Connector Composites (4087), (4088), (4100), (4101), (4109), (4112)

12.36. CONNECTOR COMPOSITE (4103), P. 30

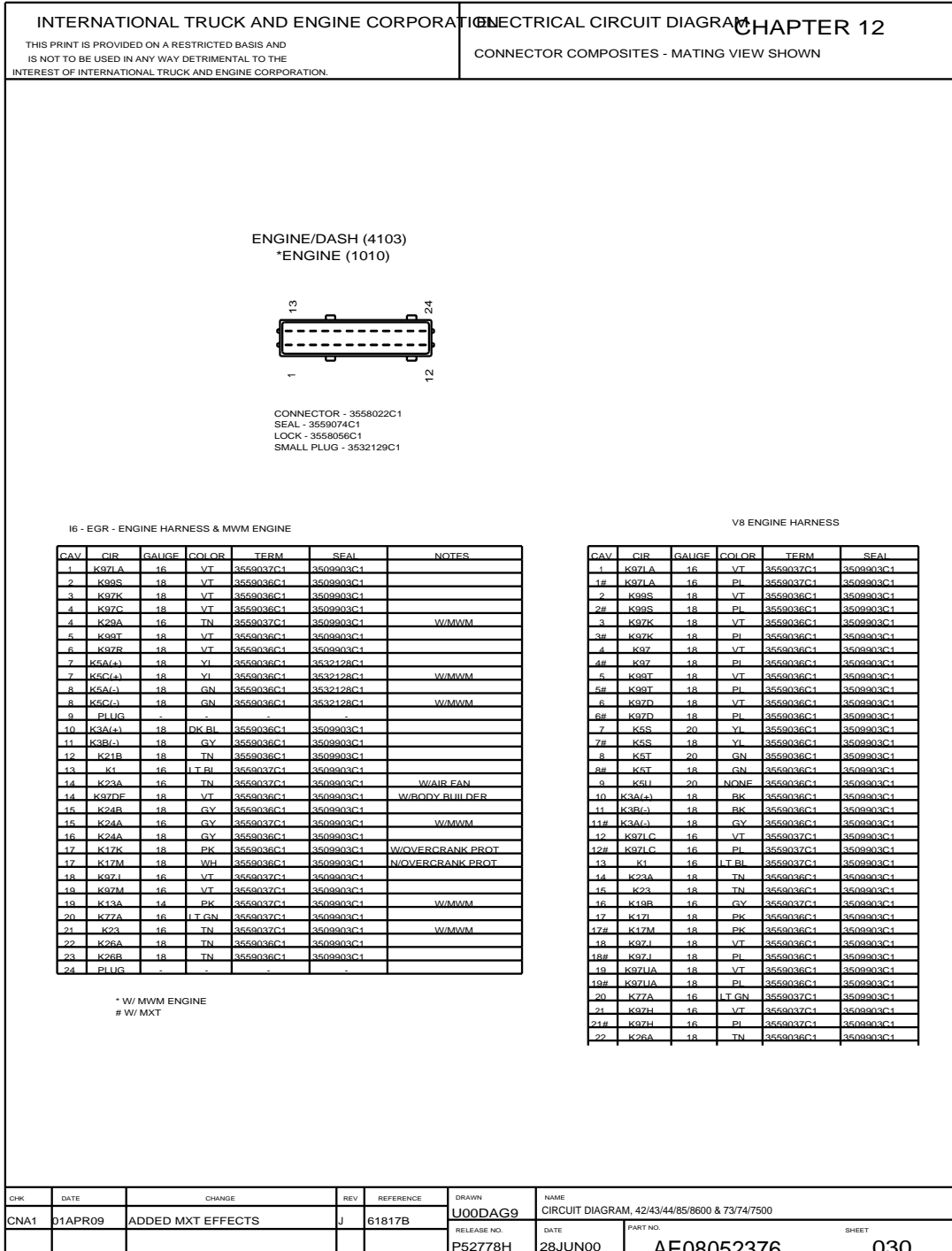


Figure 229 Connector Composite (4103)

12.37. CONNECTOR COMPOSITE (4103), P. 30A

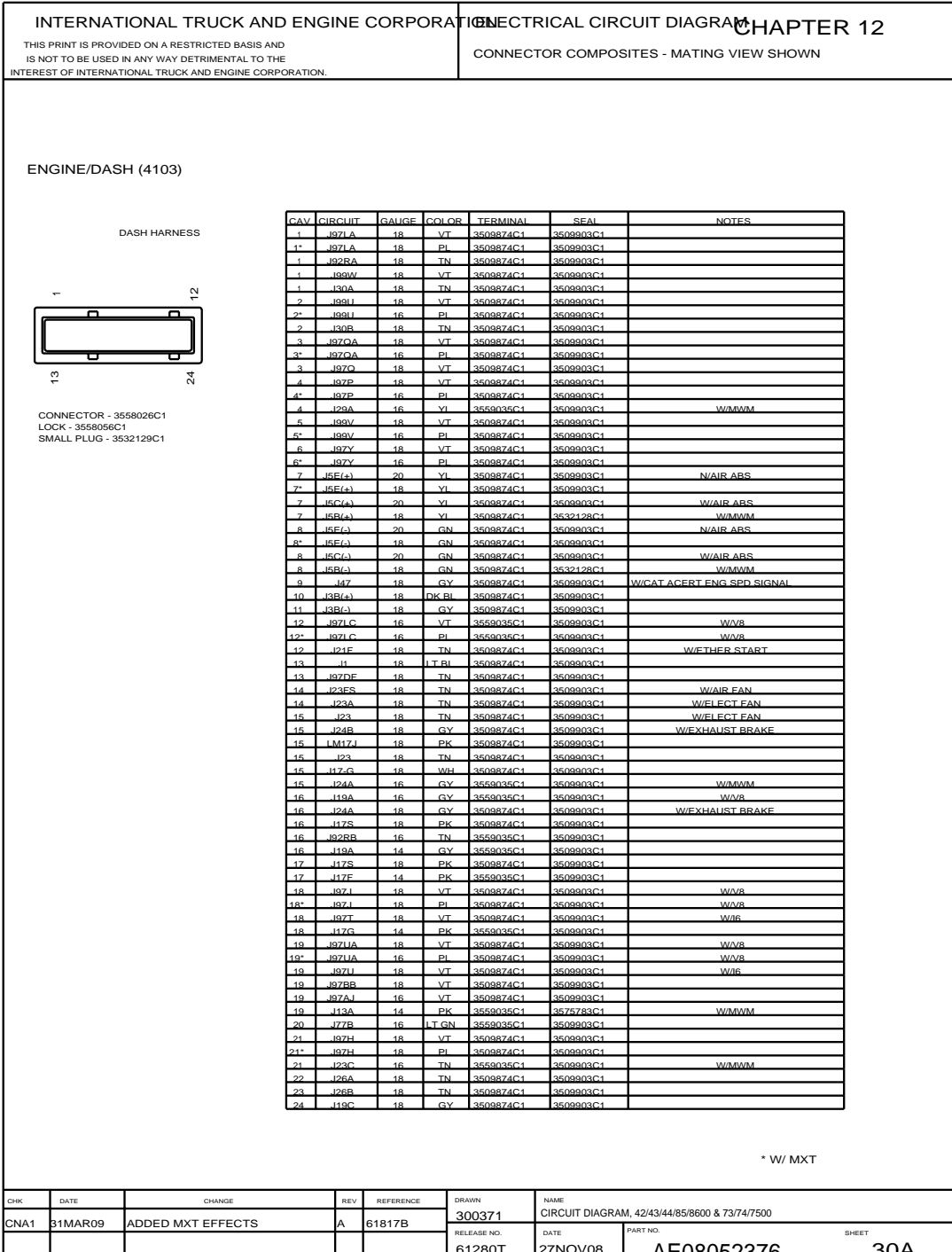


Figure 230 Connector Composite (4103)



12.38. CONNECTOR COMPOSITES (4105), (4111), (4120), (4301), P. 31

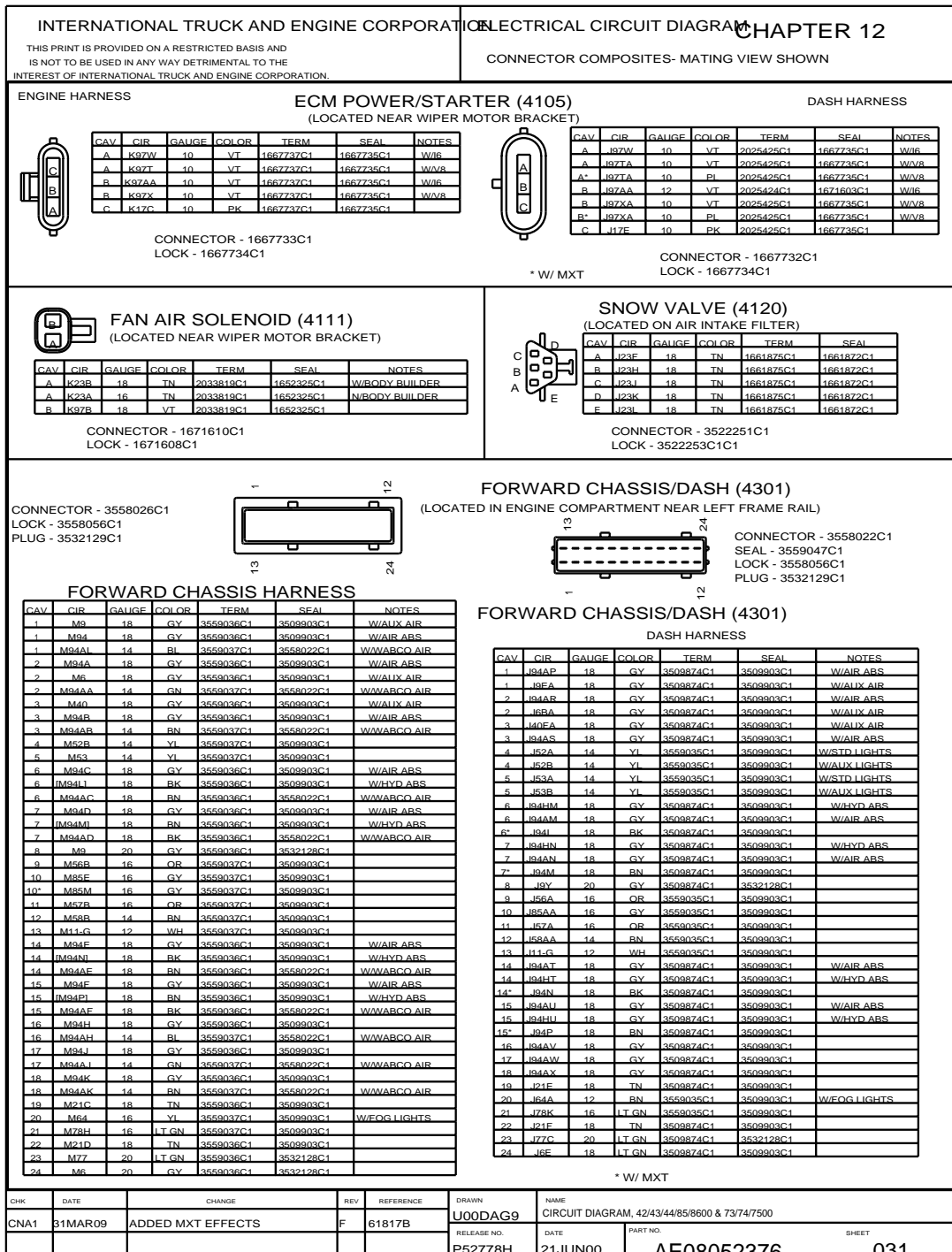


Figure 231 Connector Composites (4105), (4111), (4120), (4301)

12.39. CONNECTOR COMPOSITES (4305), (4410), (4410B), (4410C), (4410D), (4410E), (4410H), (4410M), (4411), P. 32

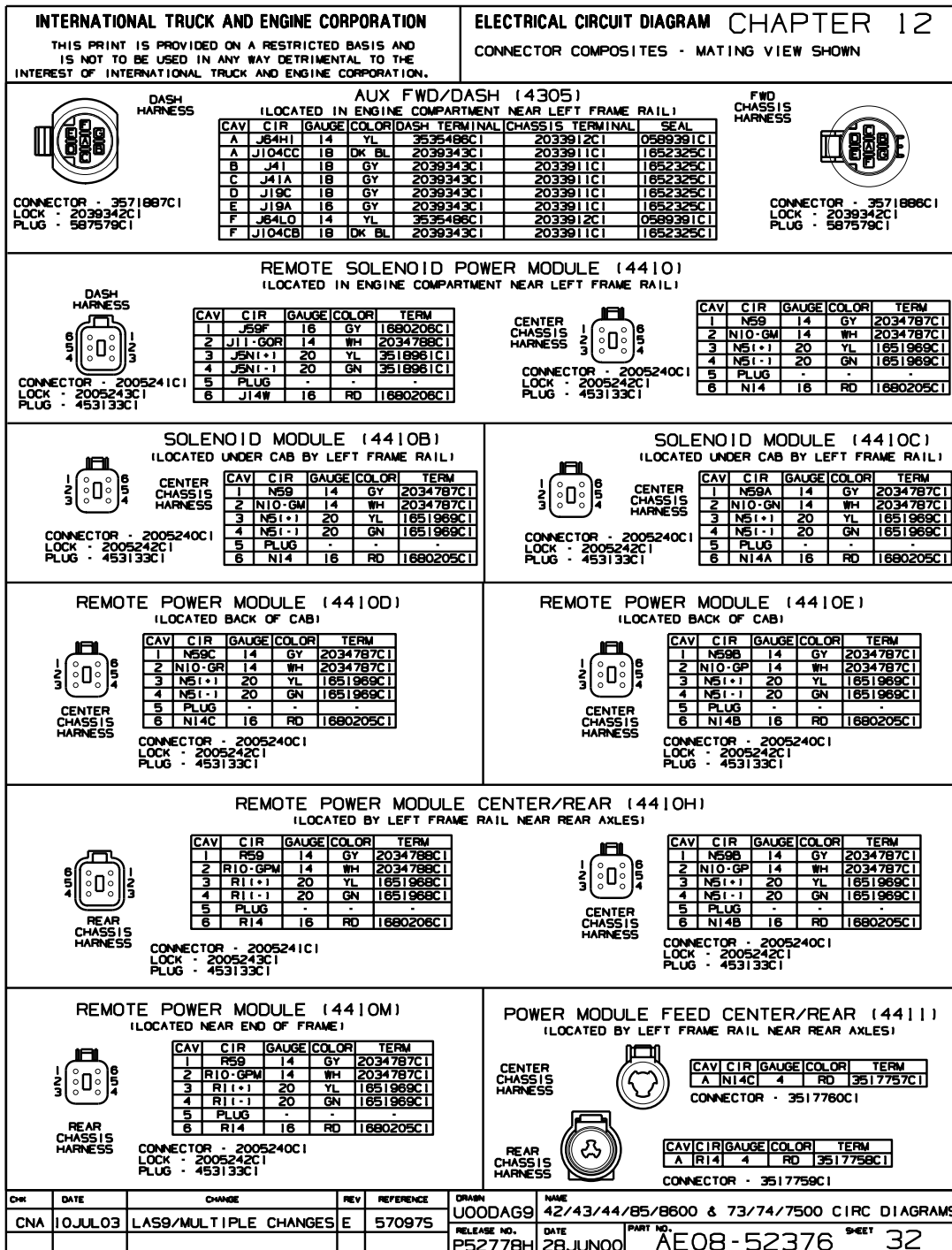


Figure 232 Connector Composites (4305), (4410), (4410B), (4410C), (4410D), (4410E), (4410H), (4410M), (4411)

**12.40. CONNECTOR COMPOSITES (4411A), (4411B), (4412), (4415), (4450), (4450A), (4460A), (4460), P. 33**

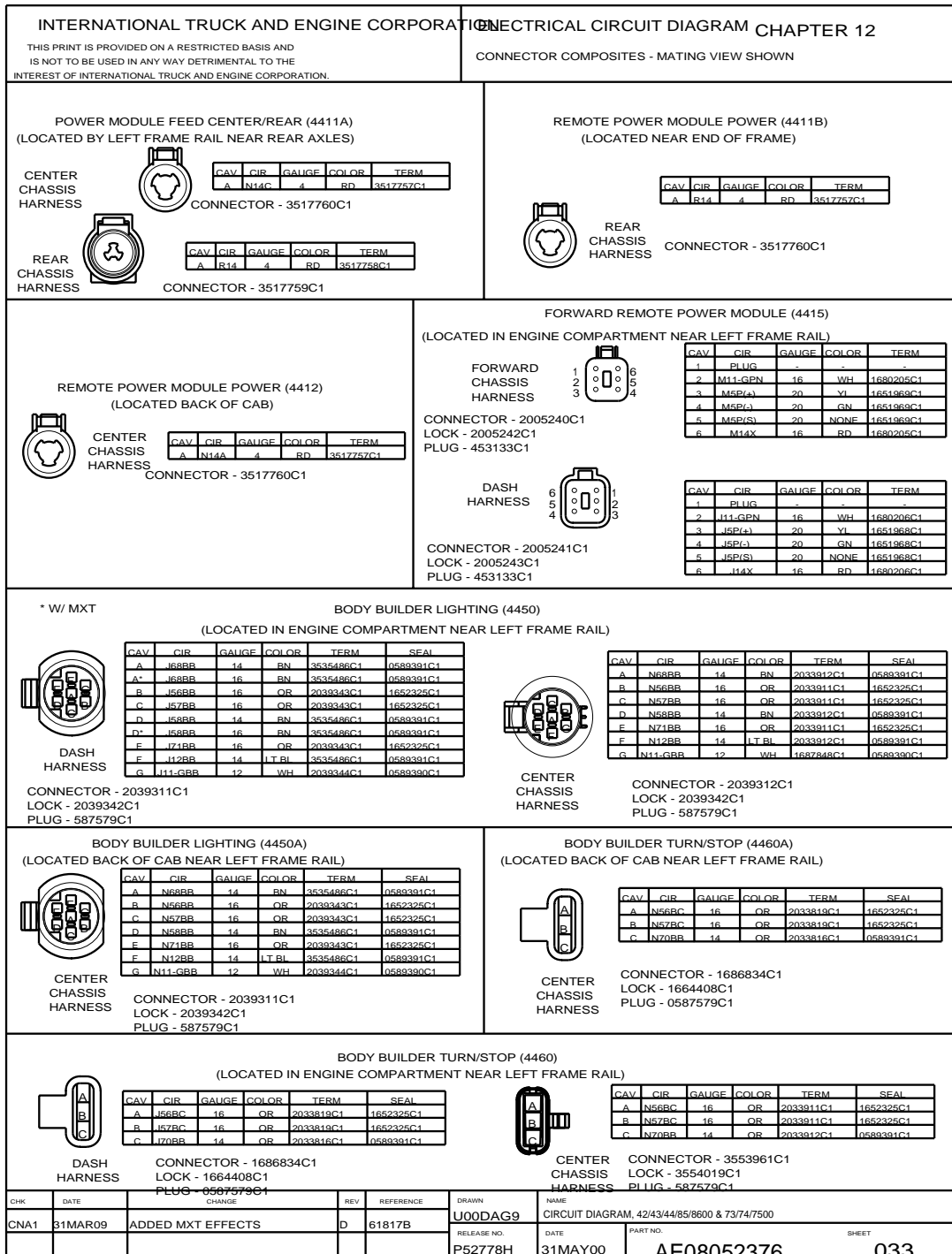


Figure 233 Connector Composites (4411A), (4411B), (4412), (4415), (4450), (4450A), (4460A), (4460)

12.41. CONNECTOR COMPOSITE (4705), P. 34

INTERNATIONAL TRUCK AND ENGINE CORPORATION ELECTRICAL CIRCUIT DIAGRAM CHAPTER 12  
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 CONNECTOR COMPOSITES - MATING VIEW SHOWN

\* W/MXT  
 TRANSMISSION/DASH (4705)  
 (LOCATED IN ENGINE COMPARTMENT BY WIPER MOTOR BRACKET)

DASH HARNESS

CAV	CIR	GUAGE	COLOR	TERM	SEAL
A	J71AA	18	OR	1661875C1	1661872C1
B	J71	18	OR	1661875C1	1661872C1
C	J93	18	TN	1661875C1	1661872C1
D	PLUG	-	-	-	-
E	J31	18	TN	1661875C1	1661872C1
F	J17J	18	PK	1661875C1	1661872C1
G	J9X	18	GY	1661875C1	1661872C1
H	PLUG	-	-	-	-

XMSN HARNESS

CAV	CIR	GUAGE	COLOR	TERM	SEAL
A	L71C	16	OR	1667742C1	1661872C1
B	L71B	16	OR	1667742C1	1661872C1
C	L93	18	TN	1667742C1	1661872C1
D	PLUG	-	-	-	-
E	L31B	18	TN	1667742C1	1661872C1
F	L17D	18	PK	1667742C1	1661872C1
G	L31GC	18	WH	1667742C1	1661872C1
H	PLUG	-	-	-	-

CONNECTOR - 3525874C1  
 LOCK - 3525875C1  
 PLUG - 2025431C1

WALLISON LCT XMSN

CAV	CIR	GUAGE	COLOR	TERM	SEAL
A	PLUG	-	-	-	-
B	J92#128	18	TN	1661875C1	1661872C1
B*	J92#103	18	TN	1661875C1	1661872C1
C	J92#110	18	TN	1661875C1	1661872C1
C*	J92#142	18	WH	1661875C1	1661872C1
D	J71	18	OR	1661875C1	1661872C1
E	PLUG	-	-	-	-
F	PLUG	-	-	-	-
G	J13M	18	PK	1661875C1	1661872C1
G*	J13M	16	PK	1661875C1	1661872C1
H	J71AA	18	OR	1661875C1	1661872C1

CONNECTOR - 3525874C1  
 LOCK - 3525875C1  
 PLUG - 2025431C1

WEATON AUTOSHIFT XMSN

CAV	CIR	GUAGE	COLOR	TERM	SEAL
1	PLUG	-	-	-	-
2	PLUG	-	-	-	-
3	J927	16	TN	3559037C1	3509903C1
4	J92AF	16	TN	3559037C1	3509903C1
5	J92AD	16	TN	3559037C1	3509903C1
6	J92AC	16	TN	3559037C1	3509903C1
7	J31F	18	TN	3559036C1	3532128C1
8	J31GF	18	TN	3559036C1	3509903C1
9	J5AX(L)	20	YI	3509874C1	3532128C1
10	J5AX(C)	20	GN	3509874C1	3532128C1
11	J53X(S)	20	NONE	3509874C1	3532128C1
12	L11-GAM	12	WH	3559037C1	3509903C1
13	L14AW	12	RD	3559037C1	3509903C1
14	PLUG	-	-	-	-
15	PLUG	-	-	-	-
16	PLUG	-	-	-	-
17	J71	18	LT BL	3559036C1	3532128C1
18	J71A	18	PK	3559036C1	3532128C1
19	J17C	18	PK	3559036C1	3532128C1
20	J92AB	16	TN	3559037C1	3509903C1
21	J92AA	16	TN	3559037C1	3509903C1
22	PLUG	-	-	-	-
23	PLUG	-	-	-	-
24	PLUG	-	-	-	-

CONNECTOR - 3558022C1  
 SEAL - 3559074C1  
 LOCK - 3558056C1  
 PLUG - 3532129C1

WALLISON WTEC XMSN

CAV	CIR	GUAGE	COLOR	TERM	SEAL	NOTES
1	J92#170	18	TN	3559036C1	3509903C1	
2	J92#171	18	TN	3559036C1	3509903C1	
3	J92#172	18	TN	3559036C1	3509903C1	
4	J92#173	18	TN	3559036C1	3509903C1	
5	J92#174	18	TN	3559036C1	3509903C1	
6	J92A114	18	TN	3559036C1	3509903C1	W/AUTO NEUTRAL
7	J92#175	18	TN	3559036C1	3509903C1	
8	J92#176	18	TN	3559036C1	3509903C1	
9	J92#180	18	TN	3559036C1	3509903C1	
10	J17B	18	PK	3559036C1	3509903C1	W/AUTO NEUTRAL
11	J92D1	18	TN	3559036C1	3509903C1	W/AUTO NEUTRAL
12	J92#146	18	TN	3559036C1	3509903C1	
13	J71#113	18	OR	3559036C1	3509903C1	
14	J92C123	18	TN	3559036C1	3509903C1	
15	J3142	18	DK BL	3559036C1	3509903C1	
16	J3151	18	GY	3559036C1	3509903C1	
17	J92#125	18	TN	3559036C1	3509903C2	
18	J92D136	18	TN	3559036C1	3509903C1	
19	J92D143	18	TN	3559036C1	3509903C1	
20	J92#163	16	TN	3559037C1	3509903C1	
21	J92D161	16	TN	3559037C1	3509903C1	
22	J92C124	18	TN	3559036C1	3509903C2	
23	J92#135	18	TN	3559036C1	3509903C2	
24	J92#164	18	TN	3559036C1	3509903C2	

XMSN HARNESS

CAV	CIR	GUAGE	COLOR	TERM	SEAL	NOTES
1	J92#170	18	TN	3509874C1	3532128C1	
2	J92#171	18	TN	3509874C1	3532128C1	
3	J92#172	18	TN	3509874C1	3532128C1	
4	J92#173	18	TN	3509874C1	3532128C1	
5	J92#174	18	TN	3509874C1	3532128C1	
6	J92A114	18	TN	3509874C1	3532128C1	
7	J92#175	18	TN	3509874C1	3532128C1	
8	J92#176	18	TN	3509874C1	3532128C1	
9	J92#180	18	TN	3509874C1	3532128C1	
10	L17B	18	PK	3509874C1	3532128C1	
11	J92D1	18	TN	3509874C1	3532128C1	
12	J92#146	18	TN	3509874C1	3532128C1	
13	J71#113	18	OR	3509874C1	3532128C1	
14	J92A123	18	TN	3509874C1	3532128C1	W/AUTO NEUTRAL
14	J93C123	18	TN	3509874C1	3532128C1	W/AUTO NEUTRAL
15	J3142	18	WH	3509874C1	3532128C1	
16	J3151	18	DK BL	3509874C1	3532128C1	
17	J92#125	18	TN	3509874C1	3532128C1	
18	J92D136	18	TN	3509874C1	3532128C1	
19	J92D143	18	TN	3509874C1	3532128C1	
20	J92#163	16	TN	3509874C1	3532128C1	
21	J92D161	16	TN	3509874C1	3532128C1	
22	J92C124	18	TN	3509874C1	3532128C1	
23	J92#135	18	TN	3509874C1	3532128C1	
24	J92#164	18	TN	3509874C1	3532128C1	

CONNECTOR - 3558022C1  
 LOCK - 3558022C1  
 PLUG - 3532129C1

CHK DATE CHANGE REV REFERENCE DRAWN NAME  
 CNA1 01APR09 ADDED MXT EFFECTS E 61817B U00DAG9 CIRCUIT DIAGRAM, 42/43/44/85/8600 & 73/74/7500  
 RELEASE NO. DATE PART NO. SHEET  
 P52778H 31MAY00 AE08052376 034

Figure 234 Connector Composite (4705)

12.42. CONNECTOR COMPOSITES (4705F32), (4705F3), (4712F), (4713F), (4810), (4820), (4830), P. 35

INTERNATIONAL TRUCK AND ENGINE CORPORATION ELECTRICAL CIRCUIT DIAGRAM CHAPTER 12  
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**XMSN/DASH (4712F)**  
CONNECTOR - 3525874C1  
LOCK - 3525875C1  
PLUG - 2025431C1

CAV	CIR	GAUGE	COLOR	TERM	SEAL
A	K71C	16	OR	1667742C1	1661872C1
A #	K71E	16	OR	1667742C1	1661872C1
B	K71R	16	OR	1667742C1	1661872C1
B #	K71D	16	OR	1667742C1	1661872C1
B #	K928129	18	TN	1667742C1	3568570C1
B #	K928129	18	TN	1667742C1	3568570C1
C	K93	18	TN	1667742C1	1661872C1
C #	K928110	18	TN	1667742C1	3568570C1
D	K13A	16	PK	1667742C1	1661872C1
D #	K71	16	OR	1667742C1	1661872C1
E #	K31B	18	TN	1667742C1	1661872C1
E #	K31E	16	TN	1667742C1	1661872C1
E #	K17D	18	PK	1667742C1	3568570C1
E #	K17E	18	PK	1667742C1	3568570C1
G	K93-G	18	TN	1667742C1	1661872C1
G #	K31-GC	18	WH	1667742C1	1661872C1
G #	K31-GE	16	TN	1667742C1	1661872C1
G #	K13M4	18	PK	1667742C1	1661872C1
H #	K11-G	16	WH	1667742C1	1661872C1
H #	K71A	16	OR	1667742C1	1661872C1

**DASH/XMSN (4713F)**  
CONNECTOR - 3538635C1  
LOCK - 3538636C1  
PLUG - 2025431C1

CAV	CIR	GAUGE	COLOR	TERM	SEAL
A	K13AA	16	PK	1661875C1	1661872C1
B	K11-GB	16	WH	1661875C1	1661872C1
C	K11-GC	16	WH	1661875C1	1661872C1
D	K14AA	16	RD	1661875C1	1661872C1
F	K3AA	16	DKBI	1661875C1	1661872C1
F	K3AB	16	GY	1661875C1	1661872C1
G	K71D	16	OR	1661875C1	1661872C1
H	K71E	16	OR	1661875C1	1661872C1
J	K31D	16	TN	1661875C1	1661872C1
K	K31-GD	16	TN	1661875C1	1661872C1

**BACKUP LIGHT TURN SIGNAL SPLICE (4810)**  
(LOCATED NEAR POWER DISTRIBUTION CENTER)  
CONNECTOR - 3543733C1  
LOCK - 3543732C1  
PLUG - 3535425C1  
BUS BAR - 3543736C1

CAV	CIR	GAUGE	COLOR	TERM	SEAL	NOTES
	RIGHT			BUS	BAR	
A	J57AA	16	OR	3535303C1	3535424C1	
B	J57A	16	OR	3535303C1	3535424C1	
C	J57H	16	OR	3535303C1	3535424C1	
D	J57BC	16	OR	3535303C1	3535424C1	
	LEFT			BUS	BAR	
F	J56AA	16	OR	3535303C1	3535424C1	
F	J56A	16	OR	3535303C1	3535424C1	
G	J56H	16	OR	3535303C1	3535424C1	
H	J56BC	16	OR	3535303C1	3535424C1	
	BACK			LIGHT	BUS	BAR
I	J71A	18	OR	3535303C1	3535424C1	
K	J71BB	18	OR	3535303C1	3535424C1	
L	J71AA	18	OR	3535303C1	3535424C1	W/MANUAL XMSN
L	J71AA	18	OR	3535303C1	3535424C1	W/ALL IRON ICT
L	J71B	18	OR	3535303C1	3535424C1	W/ALL IRON WTEC
L*	J71B	18	OR	3535303C1	3535424C1	W/ALL IRON ICT
L	J71A	18	OR	3535303C1	3535424C1	W/EATON ALTOQUIET
M	J71BK	18	ITGN	3535303C1	3535424C1	W/BACKUP CAMERA

**XMSN / DASH CONN (4705F32)**  
CONNECTOR - 3558026C1  
BODY LOCK - 3558056C1

CAV	CIRCUIT	GAUGE	COLOR
7	GPS	18	PL
13	L92#165	18	TN

**J1708 & 5 VOLT REF SPLICE (4820)**  
(LOCATED NEAR WIPER MOTOR BRACKET)  
CONNECTOR - 3543733C1  
LOCK - 3543732C1  
PLUG - 3535425C1  
BUS BAR - 3543736C1

CAV	CIR	GAUGE	COLOR	TERM	SEAL	NOTES	
	5 VOLT			REF	BUS	BAR	
A	J6BA	18	GY	3535303C1	3535424C1		
B	J6A	18	GY	3535303C1	3535424C1		
C	J6E	18	LTGN	3535303C1	3535424C1		
D	PLUG	-	-	-	-		
	DATA			LINK	BUS	BAR	
F	J3A(+)	18	DK BI	3535303C1	3535424C1		
F	J3B(+)	18	DK BI	3535303C1	3535424C1		
G	J3D(+)	18	DK BI	3535303C1	3535424C1	RNDX AIR ABS	
G	J3A(-)	18	DK BI	3535303C1	3535424C1	W/ABCO AIR ABS	
G	J3C(+)	18	DK BI	3535303C1	3535424C1	W/HYD ABS	
G*	J3C(+)	20	DK BI	3535303C1	3535424C1	W/HYD ABS	
H	J3+142	18	DK BI	3535303C1	3535424C1		
	DATA			LINK	NEGATIVE	BUS	BAR
I	J3A(-)	18	GY	3535303C1	3535424C1		
K	J3B(-)	18	GY	3535303C1	3535424C1		
L	J3D(-)	18	GY	3535303C1	3535424C1	RNDX AIR ABS	
L	J3A(-)	18	GY	3535303C1	3535424C1	W/ABCO AIR ABS	
L	J3C(-)	18	GY	3535303C1	3535424C1	W/HYD ABS	
L*	J3C(-)	20	GY	3535303C1	3535424C1	W/HYD ABS	
M	J3-151	18	GY	3535303C1	3535424C1		

**XMSN / DASH CONN (4705F3)**  
CONNECTOR - 3525874C1  
BODY LOCK - 3525875C1

CAV	CIRCUIT	GAUGE	COLOR
B	L92B103	18	YL
C	L92#142	18	WH
G	L13M4	18	YL

**ELECTRONIC REF GROUND SPLICE (4830)**  
(LOCATED NEAR POWER DISTRIBUTION CENTER)  
CONNECTOR - 3543733C1  
LOCK - 3543732C1  
PLUG - 3535425C1  
BUS BAR - 3543736C1

CAV	CIR	GAUGE	COLOR	TERM	SEAL
A	J9G	18	GY	3535303C1	3535424C1
B	J9A	18	GY	3535303C1	3535424C1
C	PLUG	-	-	3537145C1	-
D	J9FA	18	GY	3535303C1	3535424C1
E	PLUG	-	-	3537145C1	-
F	PLUG	-	-	3537145C1	-
G	J9J	20	GY	3535302C1	3535424C1
H	J9K	20	GY	3535302C1	3535424C1
I	J9Y	20	GY	3535302C1	3535424C1
K	PLUG	-	-	3537145C1	-
L	J9X	18	GY	3535303C1	3535424C1
M	J9H	18	GY	3535303C1	3535424C1

**ELECTRONIC REF GROUND SPLICE (4830)**  
(LOCATED NEAR POWER DISTRIBUTION CENTER)  
CONNECTOR - 3543733C1  
LOCK - 3543732C1  
PLUG - 3535425C1  
BUS BAR - 3543736C1

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
CNA1	31MAR09	ADDED MXT EFFECTS	G	61817B	U00EDL2	CIRCUIT DIAGRAM, 42/43/44/85/8600 & 73/74/7500
					RELEASE NO.	DATE
					P52778H	31MAY00
						PART NO.
						AE08052376
						SHEET
						035

Figure 235 Connector Composites (4705F32), (4705F3), (4712F), (4713F), (4810), (4820), (4830)

12.43. CONNECTOR COMPOSITES (4840), (4850), (4900), (4906), (4910), P. 36

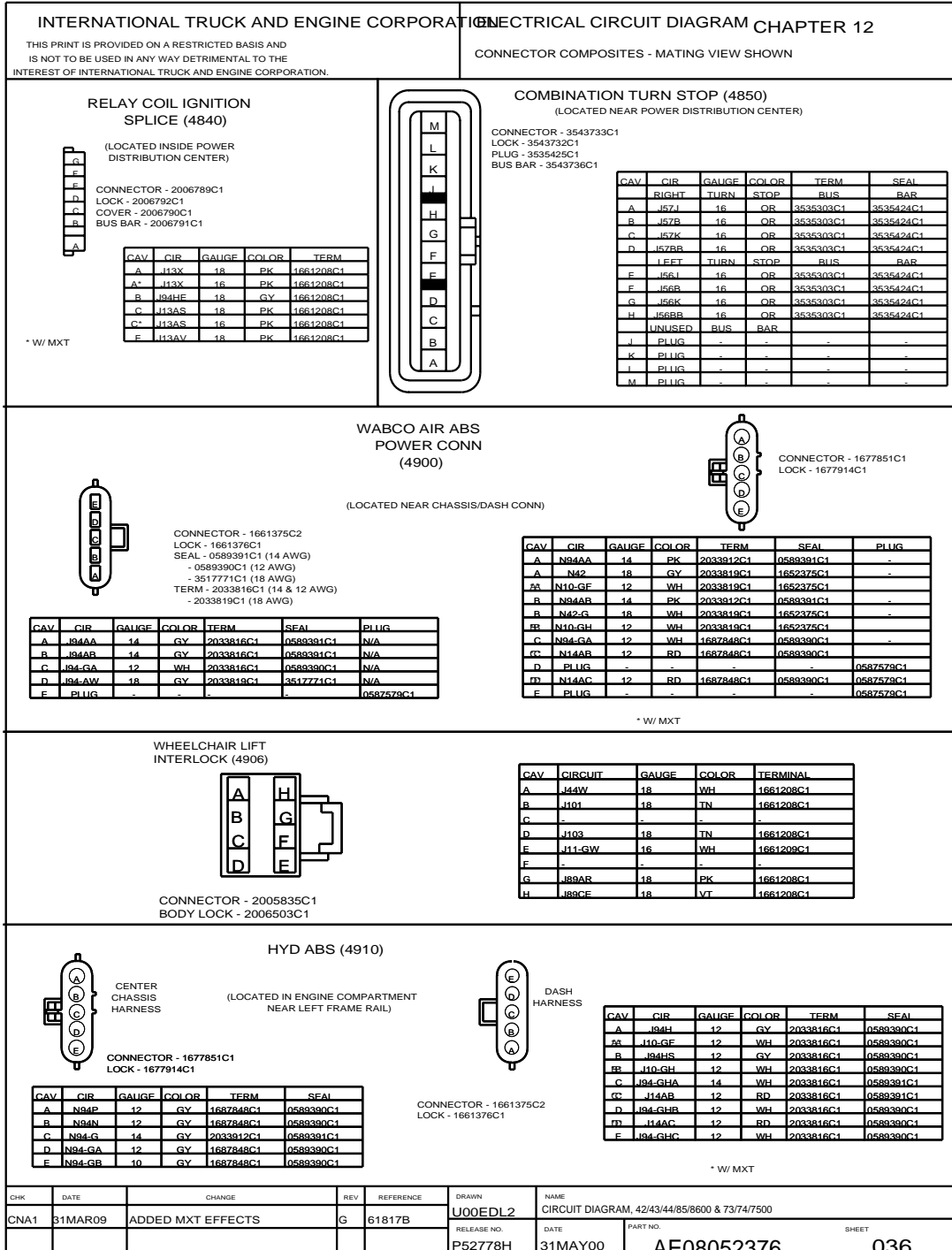


Figure 236 Connector Composites (4840), (4850), (4900), (4906), (4910)

12.44. CONNECTOR COMPOSITES (4921), (4922), (4950), (4953), (4954), P. 36A

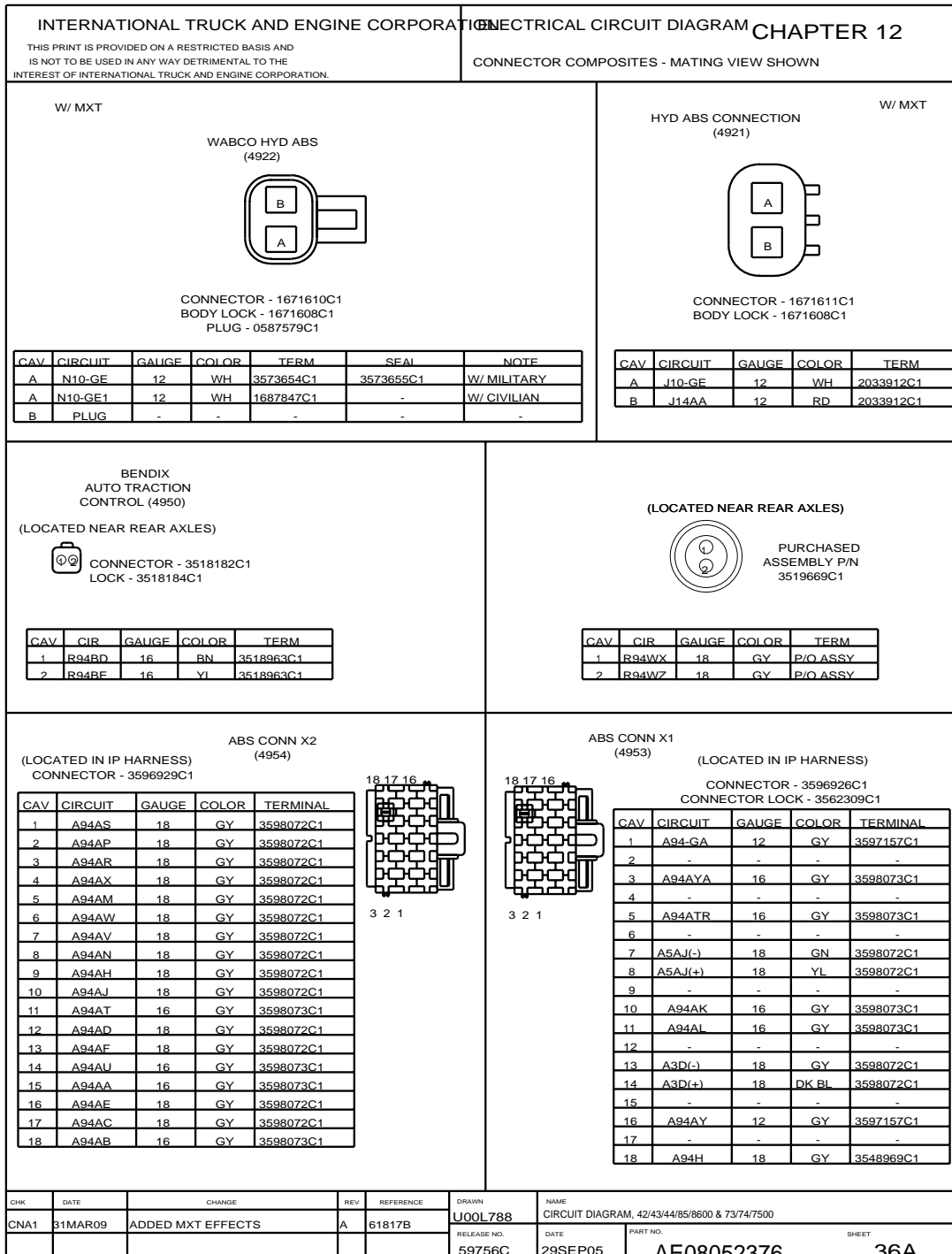


Figure 237 Connector Composites (4921), (4922), (4950), (4953), (4954)

12.45. CONNECTOR COMPOSITES (6007), (6011), P. 37

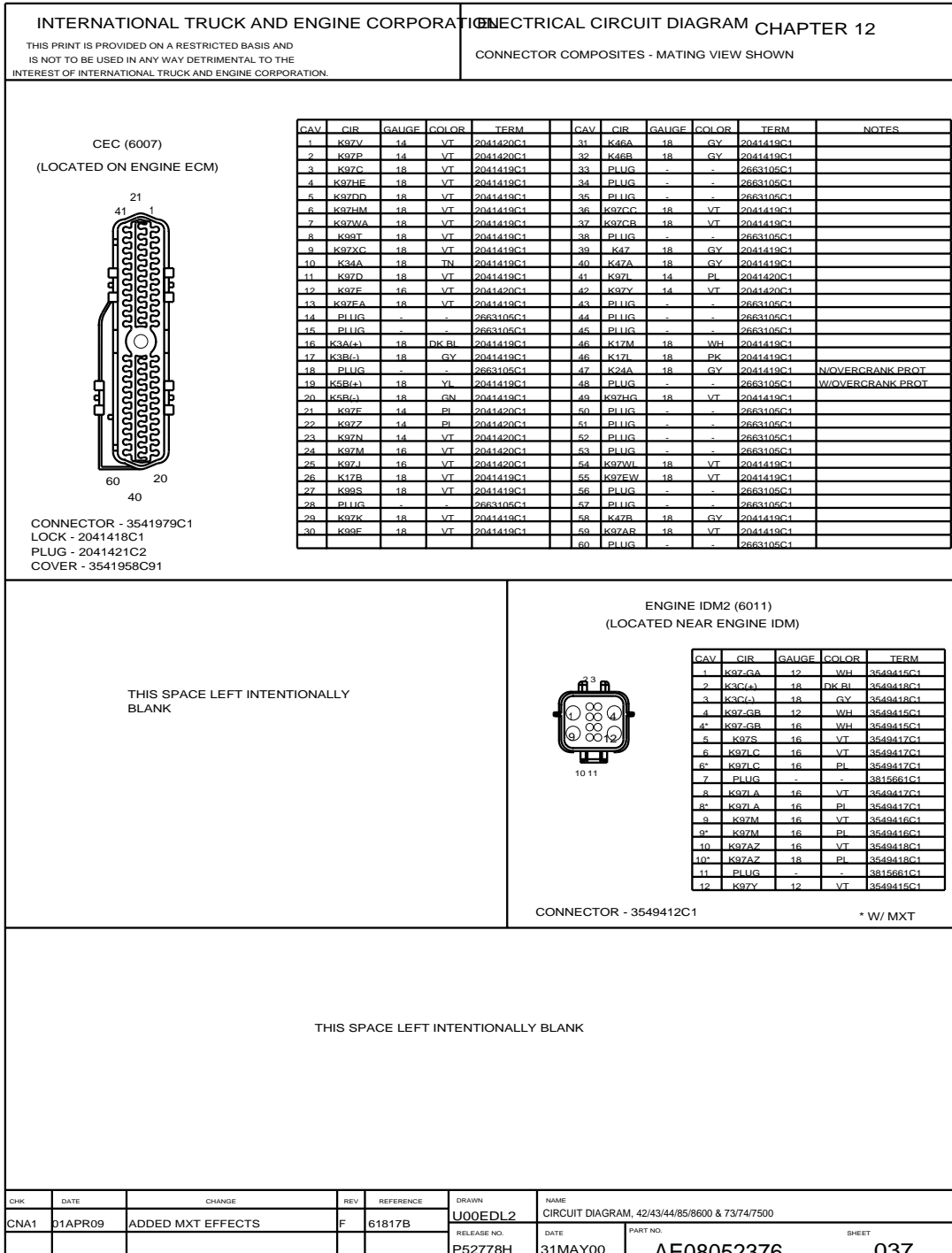


Figure 238 Connector Composites (6007), (6011)



12.46. CONNECTOR COMPOSITES (6013M), (6014), (6015), P. 38

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**ECM CONN (6013M)**

CONNECTOR - 3528968C1  
PLUG - 2023143C1

CAV	CIR	GAUGE	COLOR	TERM	CAV	CIR	GAUGE	COLOR	TERM
1	PLUG				36	K47T	18	GY	3528968C1
2	K34B	16	TN	3528968C1	37	PLUG			
3	PLUG				38	PLUG			
4	K97P	18	VT	3528968C1	39	PLUG			
5	K97YA	18	VT	3528968C1	40	PLUG			
6	PLUG				41	PLUG			
7	PLUG				42	PLUG			
8	K3A(+)	18	DK BL	3528968C1	43	PLUG			
9	K3B(-)	18	GY	3528968C1	44	PLUG			
10	PLUG				45	PLUG			
11	K23N	16	TN	3528968C1	46	PLUG			
12	PLUG				47	PLUG			
13	PLUG				48	PLUG			
14	PLUG				49	K34C	16	TN	3528968C1
15	PLUG				50	K5V	20	YL	3547818C1
16	PLUG				51	PLUG			
17	PLUG				52	K97AS	14	VT	3528968C1
18	PLUG				53	K97AT	14	VT	3528968C1
19	PLUG				54	K34D	16	TN	3528968C1
20	PLUG				55	PLUG			
21	PLUG				56	PLUG			
22	PLUG				57	PLUG			
23	PLUG				58	PLUG			
24	PLUG				59	PLUG			
25	PLUG				60	PLUG			
26	PLUG				61	PLUG			
27	PLUG				62	PLUG			
28	PLUG				63	PLUG			
29	PLUG				64	PLUG			
30	PLUG				65	K97-GD	14	WH	3528968C1
31	PLUG				66	K99V	18	VT	3528968C1
32	K47A	16	GY	3528968C1	67	K97-GE	14	WH	3528968C1
33	K47A	16	GY	3528968C1	68	PLUG			
34	K5W	20	GN	3547818C1	69	PLUG			
35	PLUG				70	K97U	18	VT	3528968C1

**ENGINE CONTROLLER (6014)**

CONNECTOR - 3555048C1  
PLUG - 3527278C1  
TERMINAL - 3518963C1

CAV	CIRCUIT	GAUGE	COLOR	CAV	CIRCUIT	GAUGE	COLOR
1	K99U	18	VT	26	PLUG		
2	PLUG			27	K47	16	GY
3	PLUG			28	K34E	16	TN
4	PLUG			29	PLUG		
5	PLUG			30	PLUG		
6	PLUG			31	PLUG		
7	PLUG			32	K34-GB	16	WH
8	PLUG			33	PLUG		
9	K99V	18	VT	34	K97O	18	VT
10	K3A(+)	18	DKBL	35	PLUG		
11	K99W	18	VT	36	K47A	16	GY
12	PLUG			37	PLUG		
13	PLUG			38	K23N	16	TN
14	PLUG			39	K97U1	18	VT
15	PLUG			40	PLUG		
16	PLUG			41	PLUG		
17	PLUG			42	PLUG		
18	PLUG			43	PLUG		
19	PLUG			44	PLUG		
20	K3B(-)	18	GY	45	PLUG		
21	PLUG			46	K5V	18	YL
22	K97P	18	VT	47	K5W	18	GN
23	K97Y	18	VT	48	PLUG		
24	PLUG			49	PLUG		
25	PLUG			50	PLUG		

**ECM POWER (6015)**

CONNECTOR - 3557533C1  
WEDGE - 3557533C1  
TERMINAL - 3557534C1

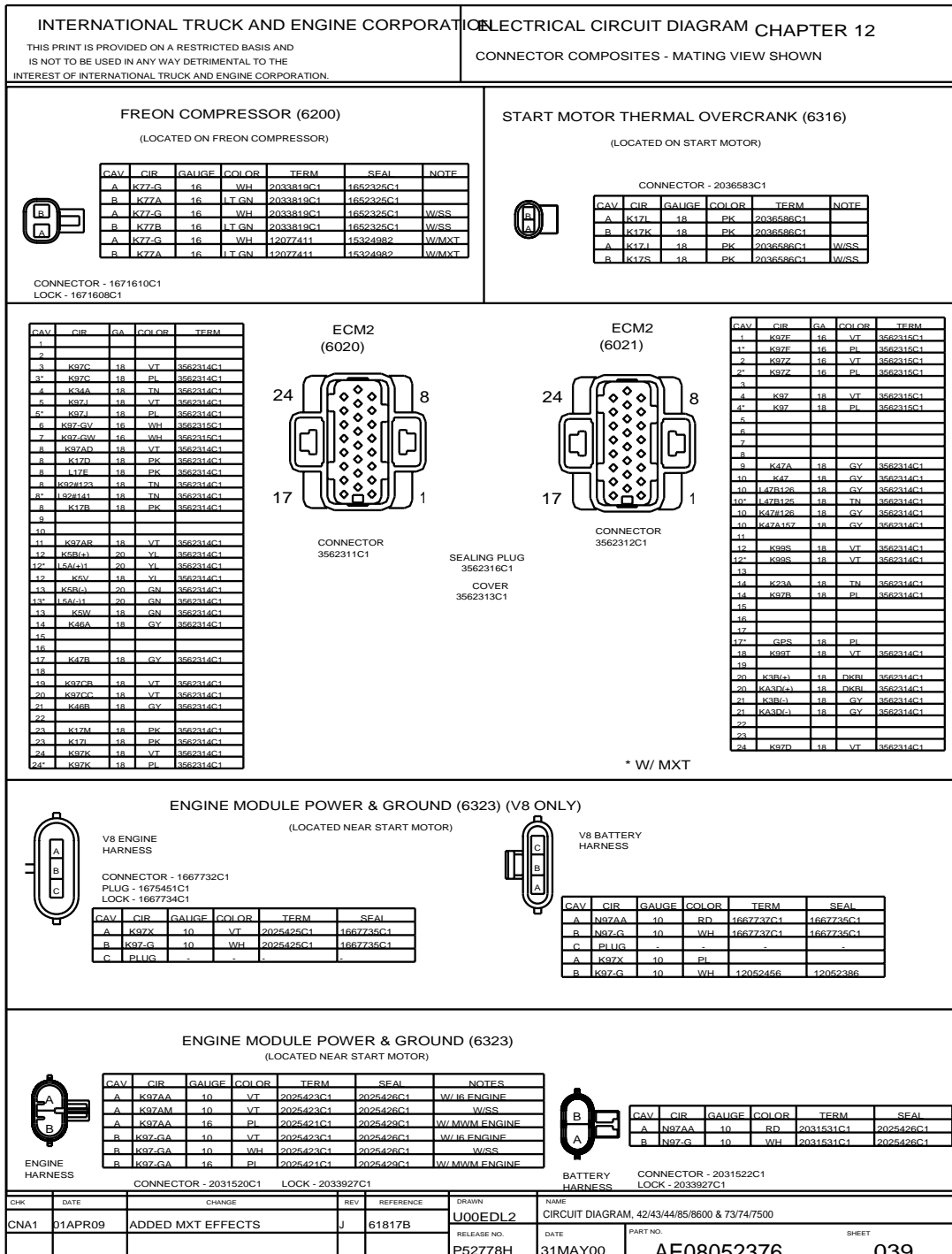
CAV	CIR	GAUGE	COLOR	NOTES
1	K10-6V	12	WH	
2	K97U2	12	VT	N/2004 ISM ENGINES
2	PLUG			
3	PLUG			
4	K97AM	12	VT	

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
JKP	23SEP04	ADDED CONN 6015.	G	59169P	U00EDL2	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS
					RELEASE NO.	DATE
					P52778H	31MAY00
						PART NO. AE08-52376
						SHEET 38

Figure 239 Connector Composites (6013M), (6014), (6015)

12.47. CONNECTOR COMPOSITES (6020), (6021), (6200), (6316), (6323), P. 39



12.48. CONNECTOR COMPOSITES (6020), P. 39A

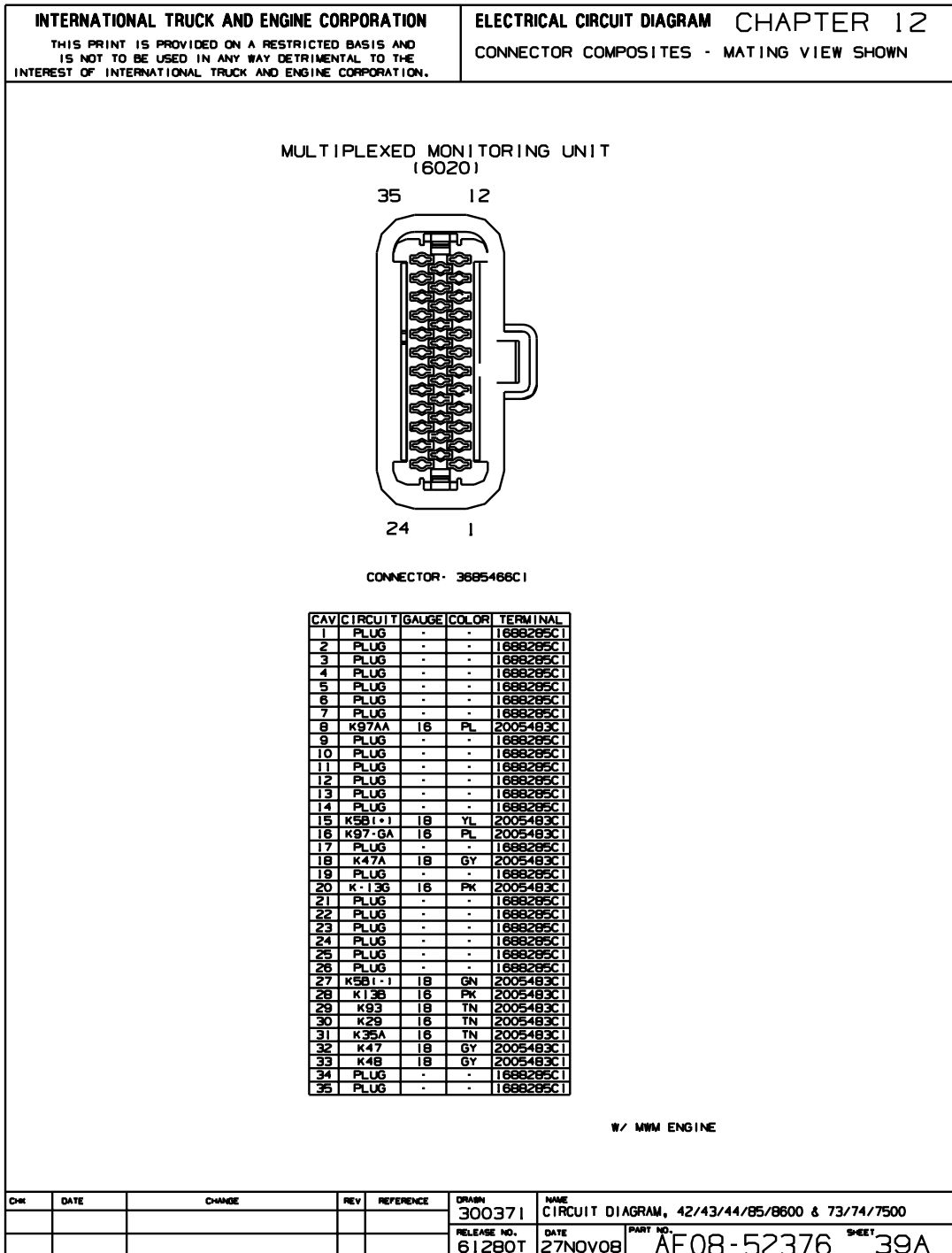
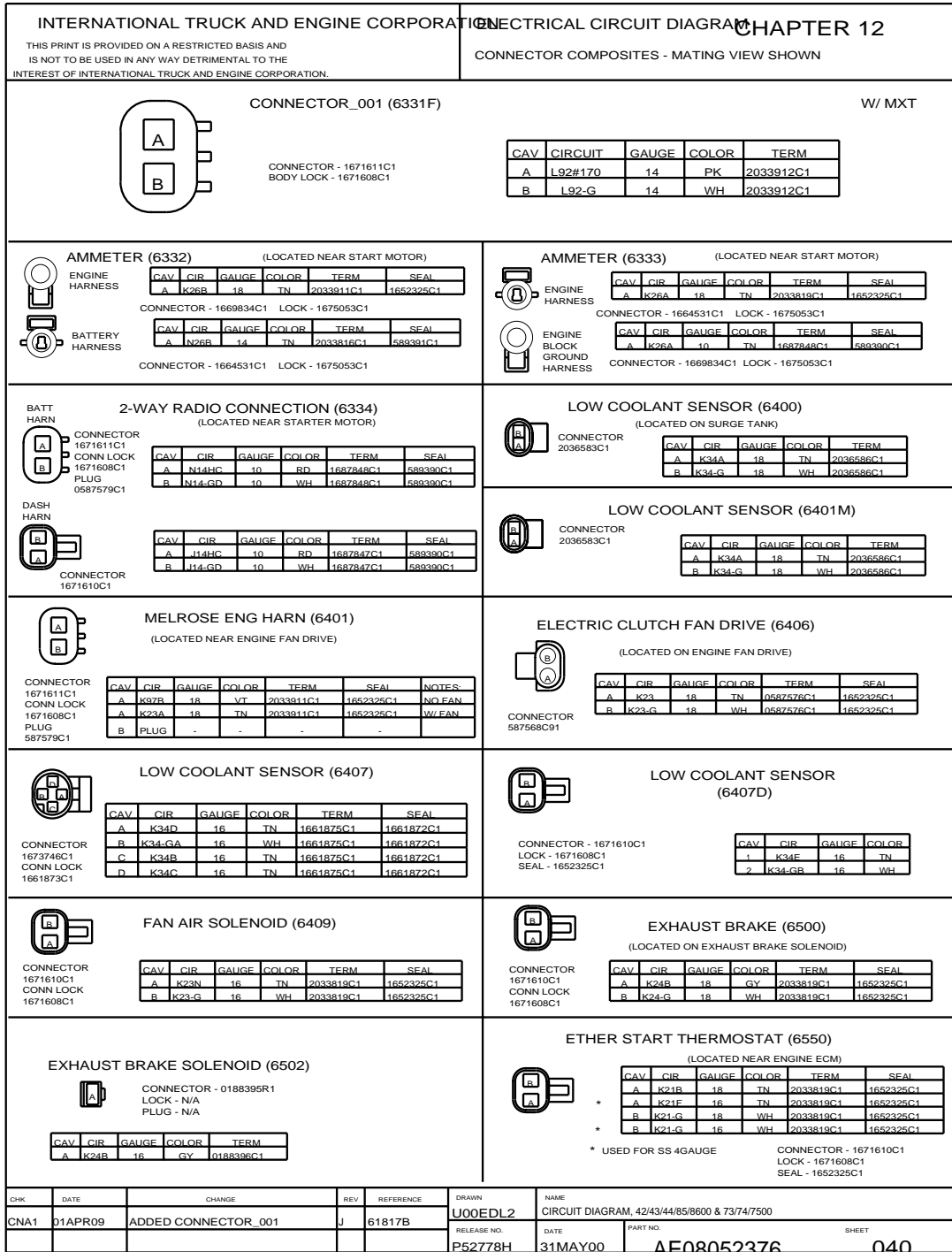


Figure 241 Connector Composites (6020)

**12.49. CONNECTOR COMPOSITES (6331F), (6332), (6333), (6334), (6400), (6401M), (6401), (6406), (6407), (6407D), (6409), (6500), (6502), (6550), P. 40**



**Figure 242 Connector Composites (6331F), (6332), (6333), (6334), (6400), (6401M), (6401), (6406), (6407), (6407D), (6409), (6500), (6502), (6550)**

**12.50. CONNECTOR COMPOSITES (6703), (6704), (6708), (6900A), (7103), (7104), (7104A), (7105), (7106), (7107), P. 41**

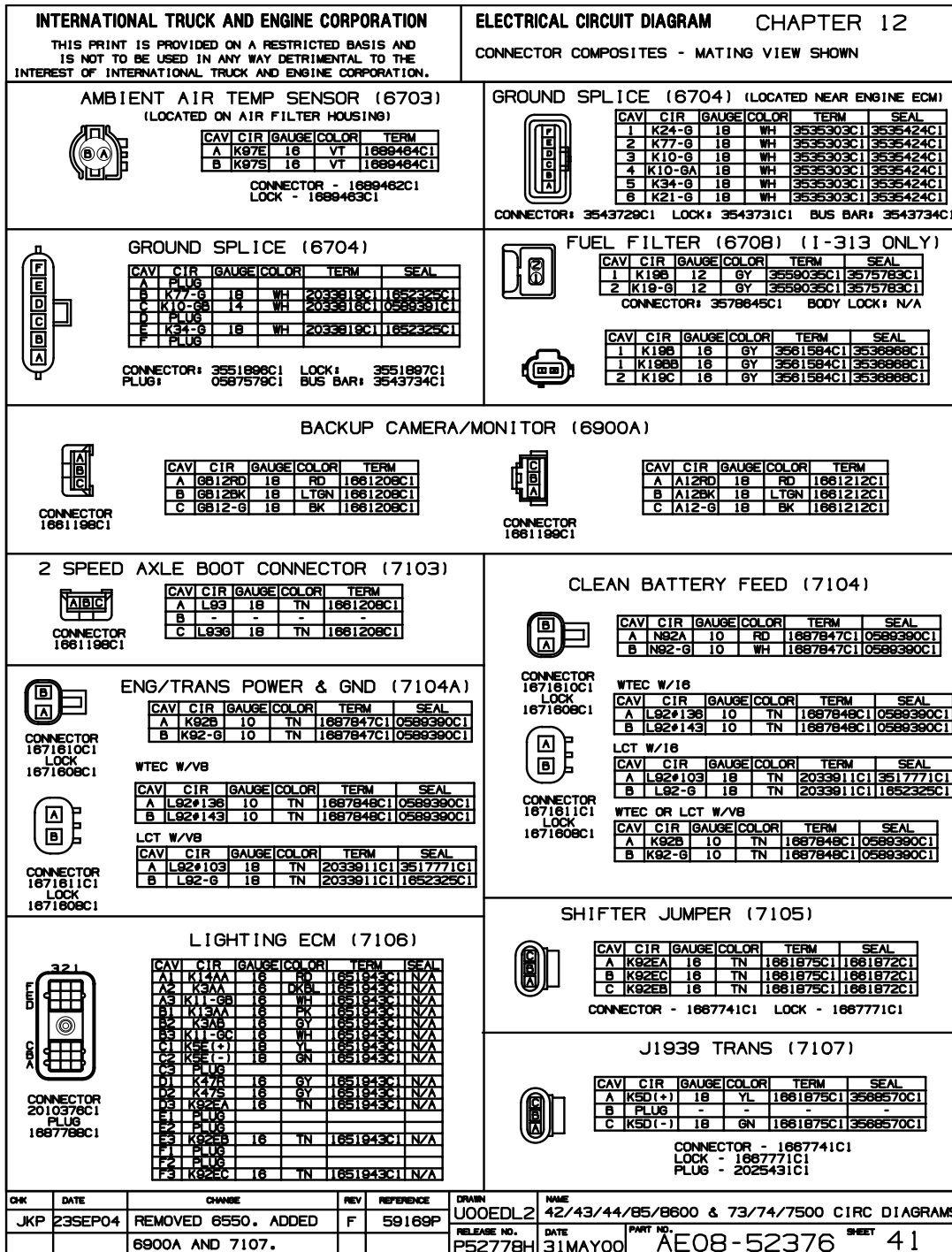


Figure 243 Connector Composites (6703), (6704), (6708), (6900A), (7103), (7104), (7104A), (7105), (7106), (7107)

12.51. CONNECTOR COMPOSITES (7111), (7150), P. 42

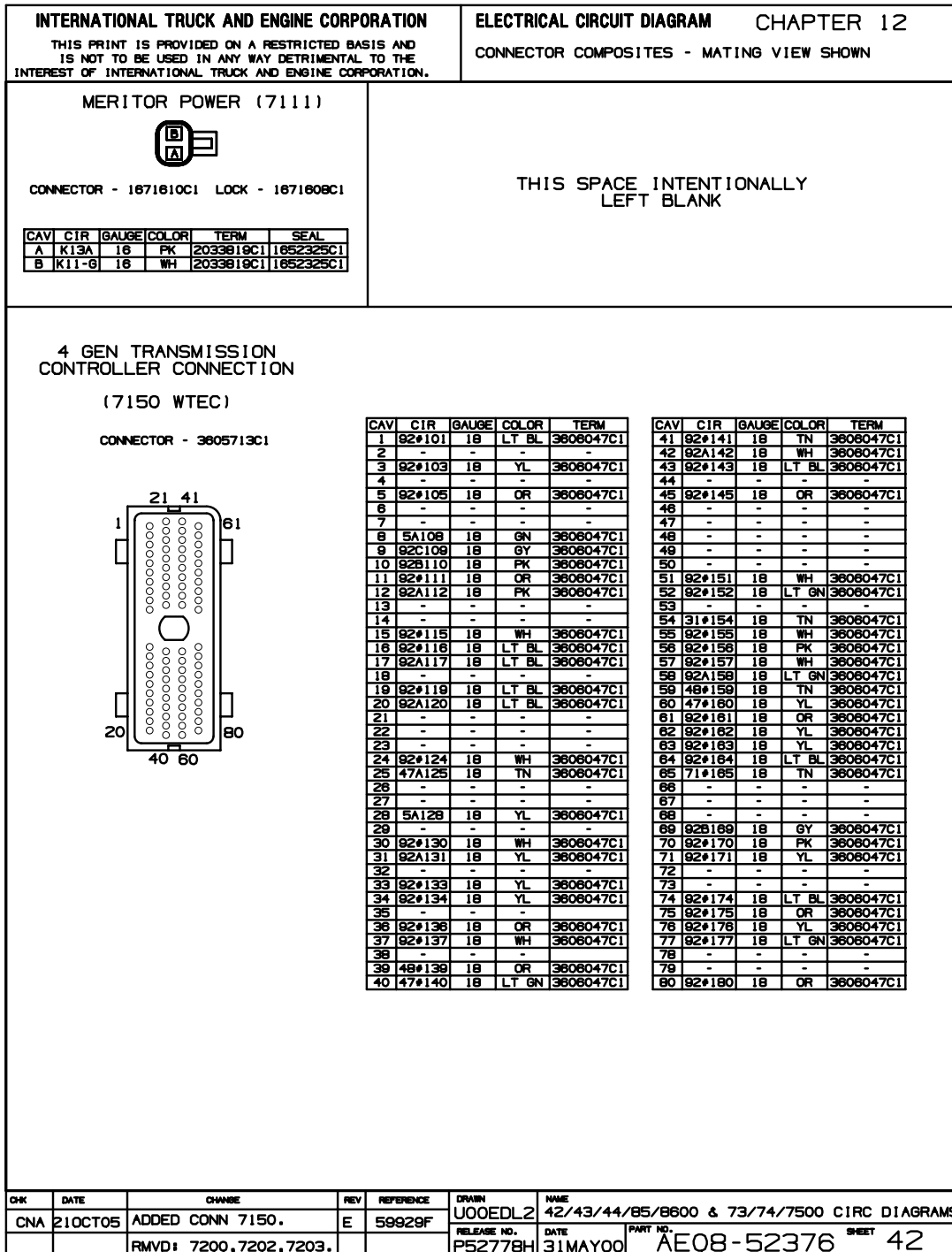


Figure 244 Connector Composites (7111), (7150)

12.52. CONNECTOR COMPOSITE (7151), P. 42A

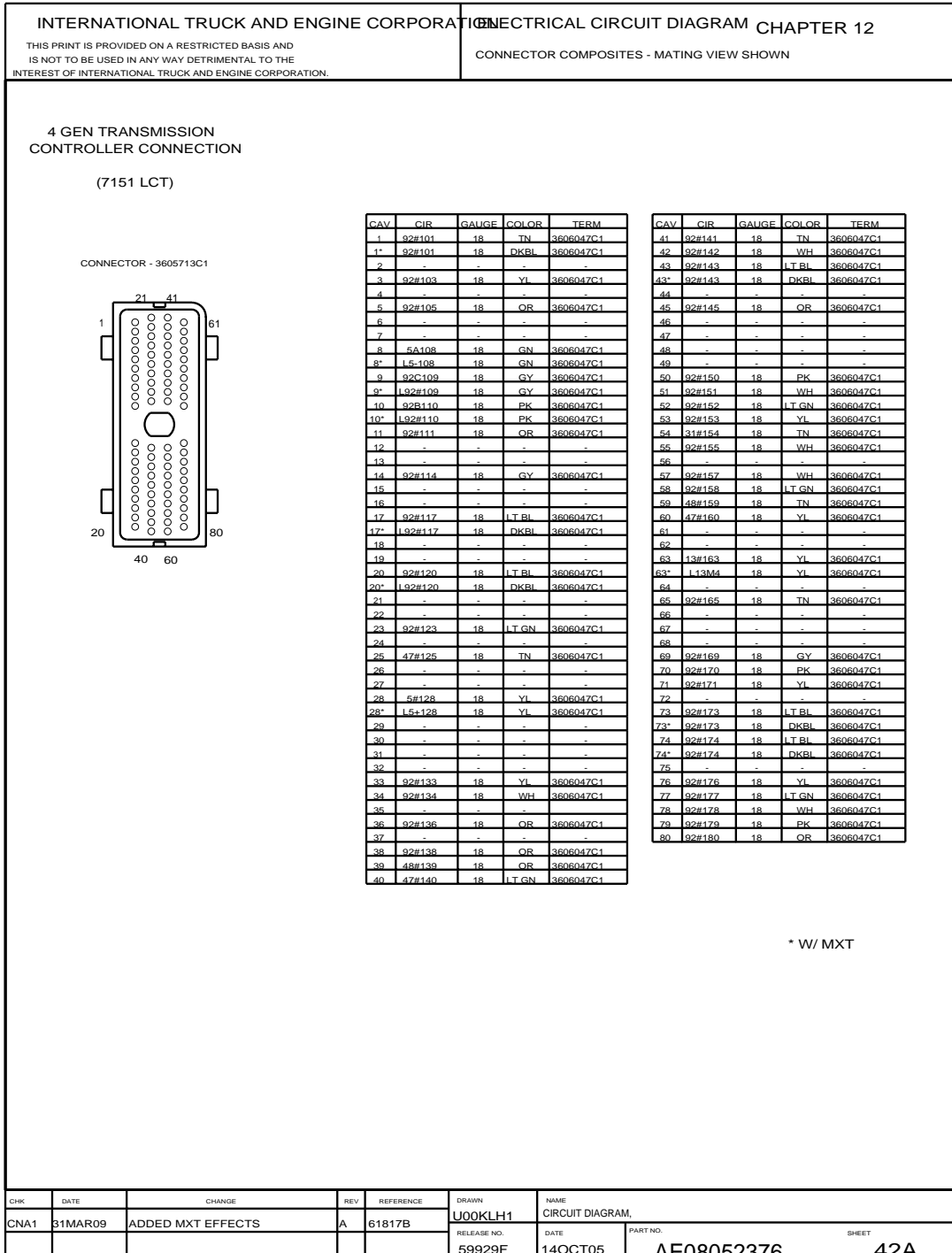


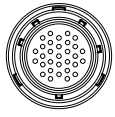
Figure 245 Connector Composite (7151)

12.53. CONNECTOR COMPOSITES (7200), (7202), (7203), P. 42B

INTERNATIONAL TRUCK AND ENGINE CORPORATION		ELECTRICAL CIRCUIT DIAGRAM CHAPTER 12	
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.		CONNECTOR COMPOSITES - MATING VIEW SHOWN	

**TRANSMISSION BULKHEAD CONNECTION (WTEC) (7200)**



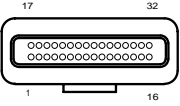
CONNECTOR - 3508926C1  
PLUG - 3508928C1

CAV	CIR	GAUGE	COLOR	TERM	SEAL
A	L92#102	18	TN	3508927C1	N/A
B	L92#103	18	TN	3508927C1	N/A
C	L92#104	18	TN	3508927C1	N/A
D	L92A124	18	TN	3508927C1	N/A
E	L92#107	18	TN	3508927C1	N/A
F	L92#110	18	TN	3508927C1	N/A
G	L92#120	18	TN	3508927C1	N/A
H	L92#121	18	TN	3508927C1	N/A
J	L92#128	18	TN	3508927C1	N/A
K	L92#129	18	TN	3508927C1	N/A
L	L92#130	18	TN	3508927C1	N/A
M	L92#131	18	TN	3508927C1	N/A
N	L92B135	18	TN	3508927C1	N/A

CAV	CIR	GAUGE	COLOR	TERM	SEAL
P	L31#147	18	TN	3508927C1	N/A
U	L92A140	18	TN	3508927C1	N/A
V	L92A149	18	TN	3508927C1	N/A
W	L92#195	18	TN	3508927C1	N/A
X	L92#162	18	TN	3508927C1	N/A
Y	L92#165	18	TN	3508927C1	N/A
a	PLUG				
b	PLUG				
c	PLUG				
d	PLUG				
e	PLUG				
f	PLUG				
g	PLUG				

**ECU "V" CONN GRAY (ALLISON WTEC) (7202)**



CONNECTOR - 3548957C91  
PLUG - 3518314C1

CAV	CIR	GAUGE	COLOR	TERM
1	L92B136	18	TN	3517243C1
2	L92#114	18	TN	3517243C1
3	PLUG	-		
4	L7#1#113	18	OR	3517243C1
5	L92#167	18	TN	3517243C1
6	L92#123	18	TN	3517243C1
7	PLUG	-		
8	PLUG	-		
9	PLUG	-		
10	PLUG	-		
11	L92#155	18	TN	3517243C1
12	L92#153	18	TN	3517243C1
13	L92#118	18	TN	3517243C1
14	PLUG	-		
15	PLUG	-		
16	L92C136	18	TN	3517243C1
17	L92B143	18	TN	3517243C1
18	L92#125	18	TN	3517243C1
19	L92#105	18	TN	3517243C1
20	PLUG	-		
21	PLUG	-		
22	L92#112	18	TN	3517243C1
23	PLUG	-		
24	PLUG	-		
25	PLUG	-		
26	PLUG	-		
27	PLUG	-		
28	PLUG	-		
29	L92#137	18	TN	3517243C1
30	L92#117	18	TN	3517243C1
31	L92#161	18	TN	3517243C1
32	L92C143	18	TN	3517243C1

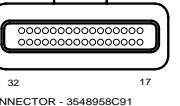
W/ & NOT WRETARDER

CAV	CIR	GAUGE	COLOR	TERM
1	L92B136	18	TN	3517243C1
2	L92A114	18	TN	3517243C1
3	PLUG	-		
4	L7#1#113	18	OR	3517243C1
5	L92#167	18	TN	3517243C1
6	L92A123	18	TN	3517243C1
7	PLUG	-		
8	PLUG	-		
9	PLUG	-		
10	PLUG	-		
11	L92#155	18	TN	3517243C1
12	L92A153	18	TN	3517243C1
13	L92#118	18	TN	3517243C1
14	PLUG	-		
15	PLUG	-		
16	L92C136	18	TN	3517243C1
17	L92B143	18	TN	3517243C1
18	L92#125	18	TN	3517243C1
19	L92#105	18	TN	3517243C1
20	PLUG	-		
21	PLUG	-		
22	L92#112	18	TN	3517243C1
23	PLUG	-		
24	PLUG	-		
25	PLUG	-		
26	PLUG	-		
27	PLUG	-		
28	PLUG	-		
29	L92#137	18	TN	3517243C1
30	L92A117	18	TN	3517243C1
31	L92#161	18	TN	3517243C1
32	L92C143	18	TN	3517243C1

W/AUTO NEUTRAL

**ECU "T" CONN BLUE (ALLISON WTEC) (7203)**



CONNECTOR - 3548958C91  
PLUG - 3518314C1

\* - WRETARDER ONLY

CAV	CIR	GAUGE	COLOR	TERM
1	L92#102	18	TN	3517243C1
2	L92#121	18	TN	3517243C1
3	L92#107	18	TN	3517243C1
4	L92#120	18	TN	3517243C1
5	L92#103	18	TN	3517243C1
6	L92#129	18	TN	3517243C1
7	L92#104	18	TN	3517243C1
8	PLUG	-		
9	L92A124	18	TN	3517243C1
10	PLUG	-		
11	PLUG	-		
12	L92#162	18	TN	3517243C1
13	L92#195	18	TN	3517243C1
14	L48#141	18	GY	3517243C1
15	L92A149	18	TN	3517243C1
16	L47#139	18	GY	3517243C1

CAV	CIR	GAUGE	COLOR	TERM
17	L92#130	18	TN	3517243C1
18	PLUG	-		
19	L92A116	18	TN	3517243C1
20	L92#128	18	TN	3517243C1
21	L92#131	18	TN	3517243C1
22	L92#110	18	TN	3517243C1
23	L92#127	18	TN	3517243C1
24	L92#101	18	TN	3517243C1
25	L92A135	18	TN	3517243C1
26	L92#165	18	TN	3517243C1
27	L31#147	18	TN	3517243C1
28	L92#138	18	TN	3517243C1
29	PLUG	-		
30	L48#160	18	GY	3517243C1
31	L92A140	18	TN	3517243C1
32	L47#148	18	GY	3517243C1

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	RELEASE NO.	DATE	PART NO.	SHEET
					U00KLH1	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS	59929F	13OCT05	AE08-52376	42B

Figure 246 Connector Composites (7200), (7202), (7203)



12.54. CONNECTOR COMPOSITES (7204), (7205), (7206), (7208), (7211), (7212), (7213), P. 43

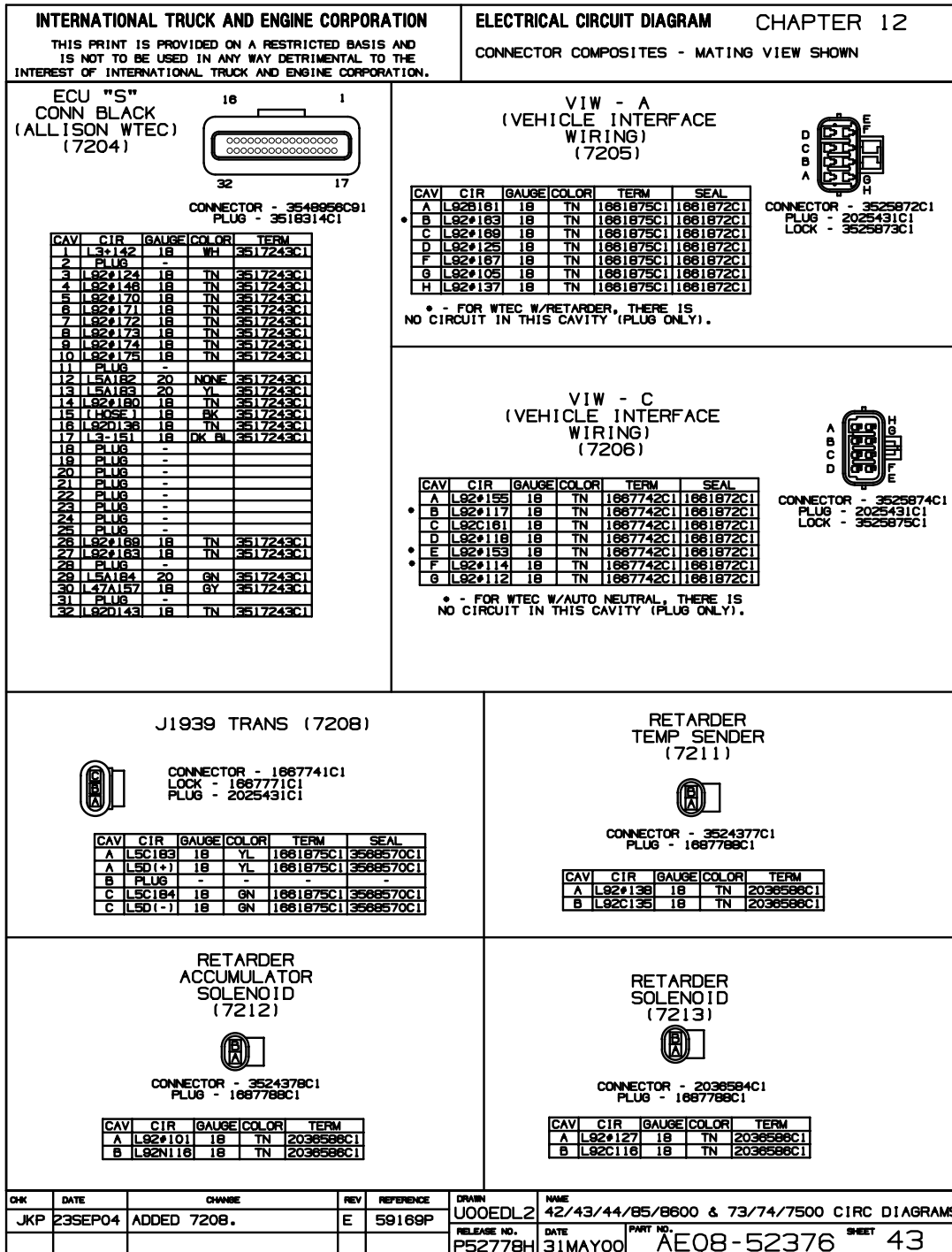
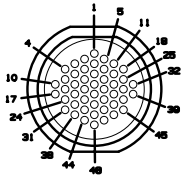


Figure 247 Connector Composites (7204), (7205), (7206), (7208), (7211), (7212), (7213)

12.55. CONNECTOR COMPOSITES (7214), (7250), (7251), P. 44

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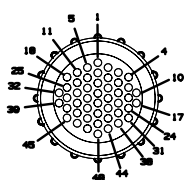
  



(7214F)

CONNECTOR - 3573045C91  
GASKET - 3566558C1  
JAM NUT - 3566557C1  
TERMINAL - 3566558C1

TCM BULKHEAD CONNECTION (7214)



(7214M)

CONNECTOR - 3573046C91  
BODY LOCK - 3566572C1  
TERMINAL - 3566558C1

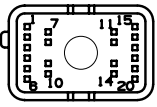
CAV	CIR	GAUGE	COLOR	CAV	CIR	GAUGE	COLOR
1	L47#139	18	GY	25	L92#167	18	TN
2	L47#148	18	GY	26	L92#105	18	TN
3	L92#170	18	TN	27	L92#143	18	TN
4	L92#171	18	TN	28	L92#143	18	TN
5	L92#172	18	TN	29	L92#137	18	TN
6	L92#173	18	TN	30	L92#155	18	TN
7	L92#174	18	TN	31	L92#117	18	TN
8	L92#175	18	TN	32	L92#149	18	TN
9	L92#124	18	TN	33	L92#118	18	TN
10	L49#141	18	GY	34	L92#153	18	TN
11	L92#180	18	TN	35	L92#114	18	TN
12	L92#148	18	TN	36	L92#112	18	TN
13	L71#113	18	OR	37	L58183	18	YL
14	L3#142	18	WH	38	L58184	18	GN
15	L3-151	18	DKBL	39	L92C140	18	TN
16	L92D138	18	TN	40	L47A157	18	GY
17	L49#150	18	GY	41	L17A	18	PK
18	L92D143	18	TN	42	-	-	-
19	L92#161	18	TN	43	-	-	-
20	L92#163	18	TN	44	-	-	-
21	L92F136	18	TN	45	-	-	-
22	L92E136	18	TN	46	-	-	-
23	L92#169	18	TN	47	-	-	-
24	L92#125	18	TN	48	-	-	-

CAV	CIR	GAUGE	COLOR	CAV	CIR	GAUGE	COLOR
1	L47#139	18	GY	25	L92#167	18	TN
2	L47#148	18	GY	26	L92#105	18	TN
3	L92#170	18	TN	27	L92B143	18	TN
4	L92#171	18	TN	28	L92C143	18	TN
5	L92#172	18	TN	29	L92#137	18	TN
6	L92#173	18	TN	30	L92#155	18	TN
7	L92#174	18	TN	31	L92#117	18	TN
8	L92#175	18	TN	32	L92C149	18	TN
9	L92#124	18	TN	33	L92#118	18	TN
10	L49#141	18	GY	34	L92#153	18	TN
11	L92#180	18	TN	35	L92#114	18	TN
12	L92#148	18	TN	36	L92#112	18	TN
13	L71#113	18	OR	37	L58183	18	YL
14	L3#142	18	WH	38	L58184	18	GN
15	L3-151	18	DKBL	39	L92C140	18	TN
16	L92D138	18	TN	40	L47A157	18	GY
17	L49#150	18	GY	41	L92#123	18	TN
18	L92D143	18	TN	42	-	-	-
19	L92#161	18	TN	43	-	-	-
20	L92#163	18	TN	44	-	-	-
21	L92B138	18	TN	45	-	-	-
22	L92C138	18	TN	46	-	-	-
23	L92#169	18	TN	47	-	-	-
24	L92#125	18	TN	48	-	-	-

WTEC TRANSMISSION BULKHEAD CONNECTOR (7250 & 7251)



CONNECTOR - 3805715C1

(7250 MED DUTY)

CAV	CIR	GAUGE	COLOR	TERM
1	92#111	18	OR	3808047C1
2	92#155	18	WH	3808047C1
3	92#177	18	LT GN	3808047C1
4	92#136	18	OR	3808047C1
5	92#152	18	LT GN	3808047C1
6	92#171	18	YL	3808047C1
7	-	-	-	-
8	92#174	18	LT BL	3808047C1
9	92#133	18	YL	3808047C1
10	92#151	18	WH	3808047C1
11	92#131	18	YL	3808047C1
12	92#137	18	WH	3808047C1
13	92#180	18	OR	3808047C1
14	92A120	18	LT BL	3808047C1
15	92#118	18	LT BL	3808047C1
16	92A112	18	PK	3808047C1
17	-	-	-	-
18	31#154	18	TN	3808047C1
19	92A158	18	LT GN	3808047C1
20	92#178	18	YL	3808047C1

(7251 HEAVY DUTY)

CAV	CIR	GAUGE	COLOR	TERM
1	92#111	18	OR	3808047C1
2	92#155	18	WH	3808047C1
3	92#177	18	LT GN	3808047C1
4	92#136	18	OR	3808047C1
5	92#152	18	LT GN	3808047C1
6	92#171	18	YL	3808047C1
7	-	-	-	-
8	92#174	18	LT BL	3808047C1
9	92#133	18	YL	3808047C1
10	92#151	18	WH	3808047C1
11	92A131	18	YL	3808047C1
12	92#137	18	WH	3808047C1
13	-	-	-	-
14	-	-	-	-
15	92#116	18	LT BL	3808047C1
16	92A112	18	PK	3808047C1
17	-	-	-	-
18	31#154	18	TN	3808047C1
19	92A158	18	LT GN	3808047C1
20	92#176	18	YL	3808047C1

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
	CNA 21OCT05	ADDED CONN 7250,7251.	G	59929F	U00EDL2	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS
		RMVD: 7300,7301.			RELEASE NO. P52778H	DATE 31MAY00 PART NO. AE08-52376 SHEET 44

Figure 248 Connector Composites (7214), (7250), (7251)

12.56. CONNECTOR COMPOSITES (7300), (7301), P. 44A

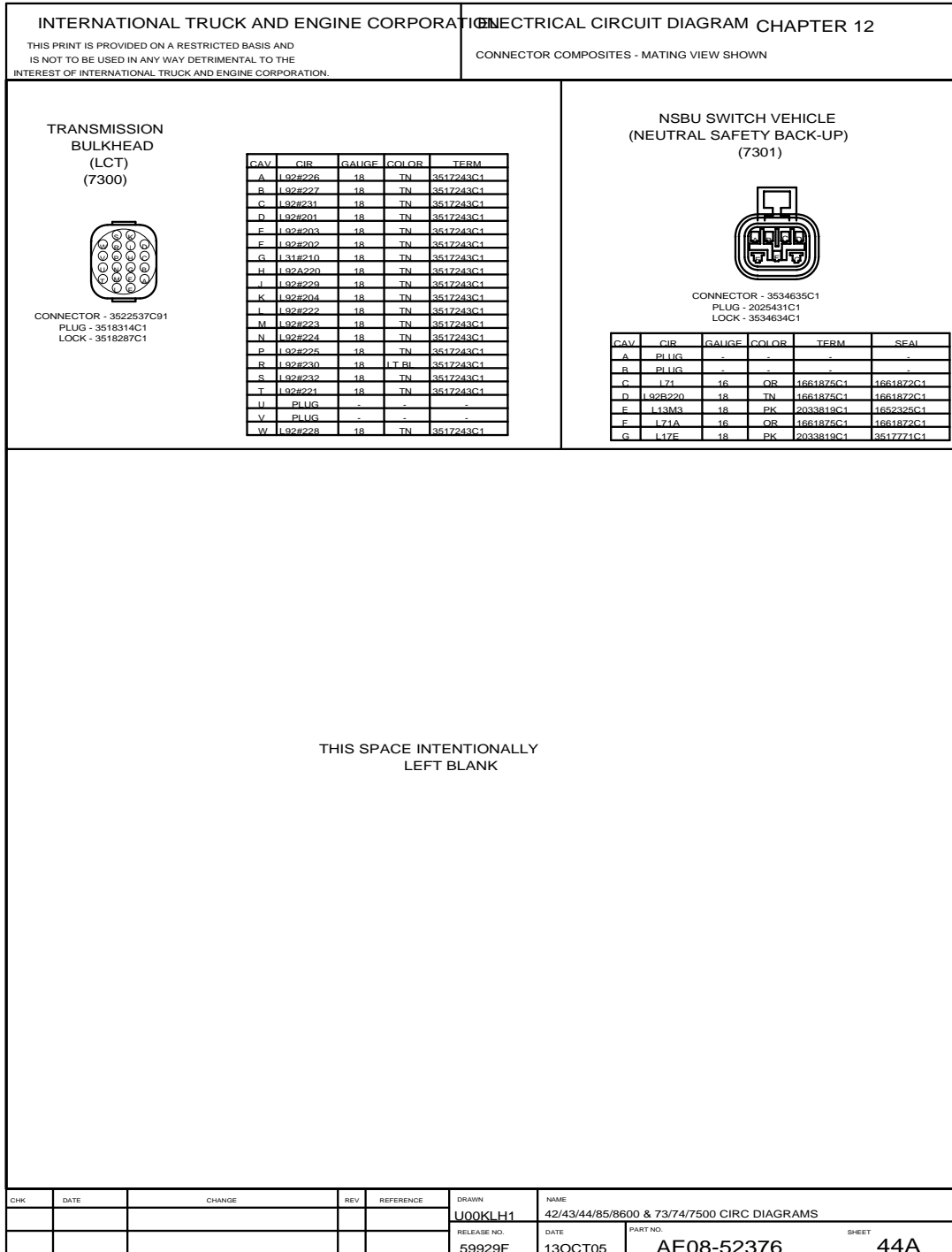


Figure 249 Connector Composites (7300), (7301)

12.57. CONNECTOR COMPOSITES (7302), (7304), (7305), (7306), (7350), P. 45

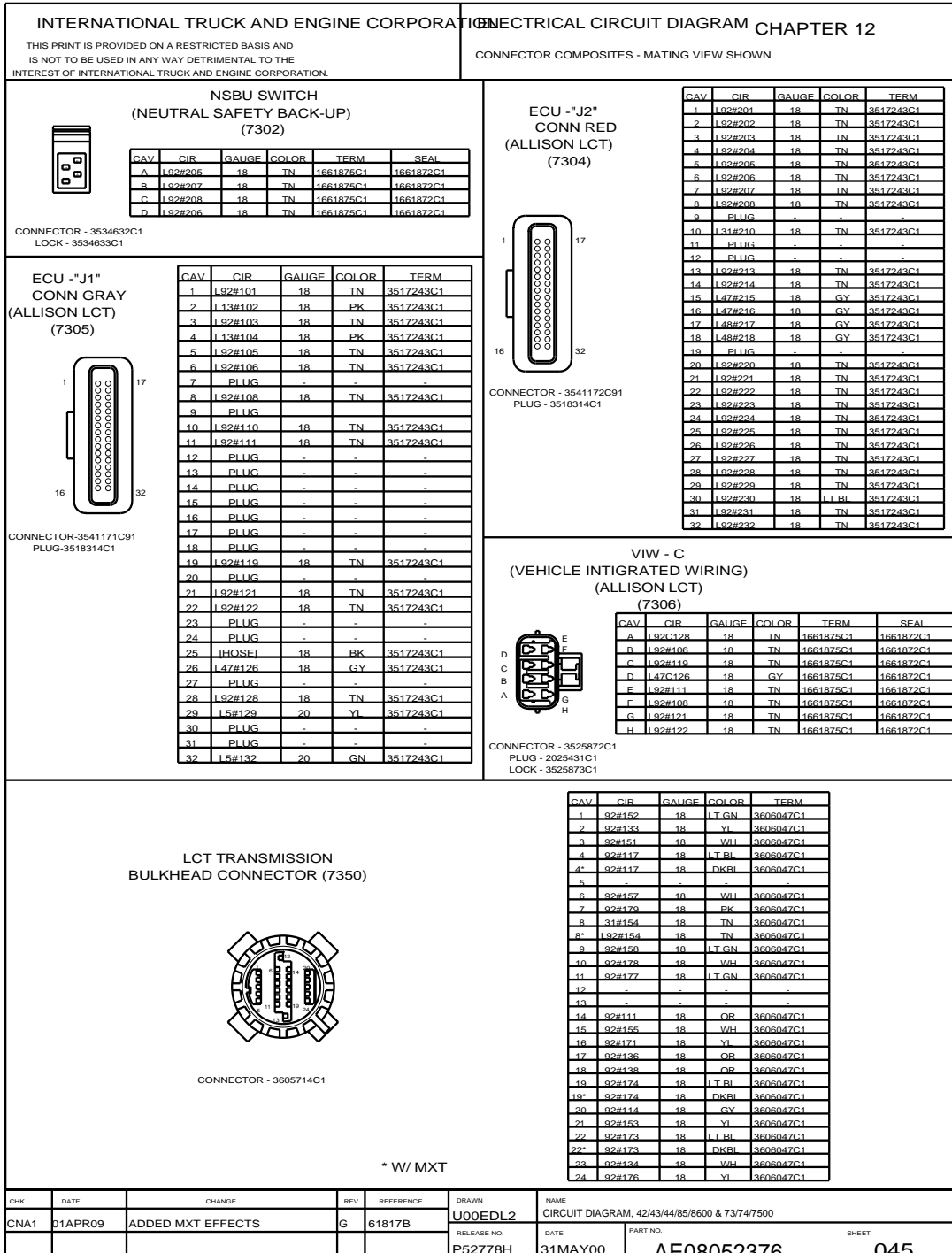


Figure 250 Connector Composites (7302), (7304), (7305), (7306), (7350)

12.58. CONNECTOR COMPOSITES (7500), (7502), (7503), (7600), (7601), P. 45A






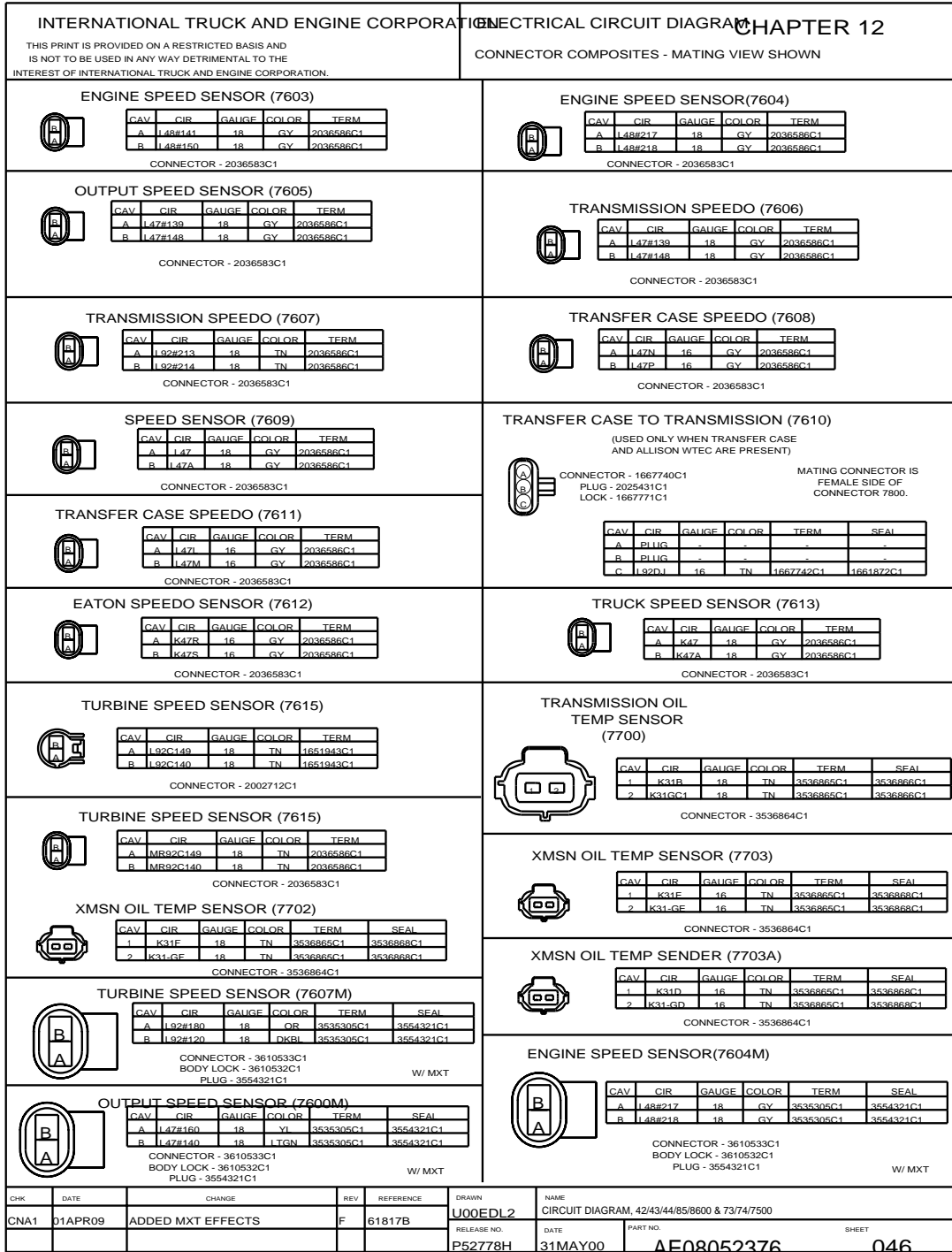
INTERNATIONAL TRUCK AND ENGINE CORPORATION				ELECTRICAL CIRCUIT DIAGRAM CHAPTER 12																																																			
THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF INTERNATIONAL TRUCK AND ENGINE CORPORATION.				CONNECTOR COMPOSITES - MATING VIEW SHOWN																																																			
<p style="text-align: center;"><b>BACK-UP LIGHT SWITCH (7500)</b></p>  <table border="1" style="width:100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>CAV</th> <th>CIR</th> <th>GAUGE</th> <th>COLOR</th> <th>TERM</th> <th>SEAL</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>L71B</td> <td>16</td> <td>OR</td> <td>1661875C1</td> <td>1661872C1</td> </tr> <tr> <td>A</td> <td>K71D</td> <td>16</td> <td>OR</td> <td>1661875C1</td> <td>1661872C1</td> </tr> <tr> <td>B</td> <td>L71C</td> <td>16</td> <td>OR</td> <td>1661875C1</td> <td>1661872C1</td> </tr> <tr> <td>B</td> <td>L71E</td> <td>16</td> <td>OR</td> <td>1661875C1</td> <td>1661872C1</td> </tr> </tbody> </table> <p>CONNECTOR - 1661778C1 PLUG - 1687788C1 LOCK - 1661874C1</p>				CAV	CIR	GAUGE	COLOR	TERM	SEAL	A	L71B	16	OR	1661875C1	1661872C1	A	K71D	16	OR	1661875C1	1661872C1	B	L71C	16	OR	1661875C1	1661872C1	B	L71E	16	OR	1661875C1	1661872C1	<p style="text-align: center;"><b>BACK-UP LIGHT (7502)</b></p>  <table border="1" style="width:100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>CAV</th> <th>CIR</th> <th>GAUGE</th> <th>COLOR</th> <th>TERM</th> <th>SEAL</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>L71</td> <td>16</td> <td>OR</td> <td>1661875C1</td> <td>1661872C1</td> </tr> <tr> <td>B</td> <td>L71A</td> <td>16</td> <td>OR</td> <td>1661875C1</td> <td>1661872C1</td> </tr> </tbody> </table> <p>CONNECTOR - 1661778C1 PLUG - 1687788C1 LOCK - 1661874C1</p>				CAV	CIR	GAUGE	COLOR	TERM	SEAL	A	L71	16	OR	1661875C1	1661872C1	B	L71A	16	OR	1661875C1	1661872C1
CAV	CIR	GAUGE	COLOR	TERM	SEAL																																																		
A	L71B	16	OR	1661875C1	1661872C1																																																		
A	K71D	16	OR	1661875C1	1661872C1																																																		
B	L71C	16	OR	1661875C1	1661872C1																																																		
B	L71E	16	OR	1661875C1	1661872C1																																																		
CAV	CIR	GAUGE	COLOR	TERM	SEAL																																																		
A	L71	16	OR	1661875C1	1661872C1																																																		
B	L71A	16	OR	1661875C1	1661872C1																																																		
<p style="text-align: center;"><b>BACK-UP LIGHT SWITCH (7503)</b></p>  <table border="1" style="width:100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>CAV</th> <th>CIR</th> <th>GAUGE</th> <th>COLOR</th> <th>TERM</th> <th>SEAL</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>K71D</td> <td>16</td> <td>OR</td> <td>1661875C1</td> <td>1661872C1</td> </tr> <tr> <td>B</td> <td>K71E</td> <td>16</td> <td>OR</td> <td>1661875C1</td> <td>1661872C1</td> </tr> </tbody> </table> <p>CONNECTOR - 1661778C1 PLUG - 1687788C1 LOCK - 1661874C1</p>				CAV	CIR	GAUGE	COLOR	TERM	SEAL	A	K71D	16	OR	1661875C1	1661872C1	B	K71E	16	OR	1661875C1	1661872C1	THIS SPACE INTENTIONALLY LEFT BLANK																																	
CAV	CIR	GAUGE	COLOR	TERM	SEAL																																																		
A	K71D	16	OR	1661875C1	1661872C1																																																		
B	K71E	16	OR	1661875C1	1661872C1																																																		
<p style="text-align: center;"><b>OUTPUT SPEED SENSOR (7600)</b></p>  <table border="1" style="width:100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>CAV</th> <th>CIR</th> <th>GAUGE</th> <th>COLOR</th> <th>TERM</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>L47#215</td> <td>18</td> <td>GY</td> <td>2036586C1</td> </tr> <tr> <td>B</td> <td>L47#216</td> <td>18</td> <td>GY</td> <td>2036586C1</td> </tr> </tbody> </table> <p>CONNECTOR - 2036583C1</p>				CAV	CIR	GAUGE	COLOR	TERM	A	L47#215	18	GY	2036586C1	B	L47#216	18	GY	2036586C1	<p style="text-align: center;"><b>SPEEDO SENSOR (7601)</b></p>  <table border="1" style="width:100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>CAV</th> <th>CIR</th> <th>GAUGE</th> <th>COLOR</th> <th>TERM</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>K47</td> <td>18</td> <td>GY</td> <td>2036586C1</td> </tr> <tr> <td>B</td> <td>K47A</td> <td>18</td> <td>GY</td> <td>2036586C1</td> </tr> </tbody> </table> <p>CONNECTOR - 2036583C1</p>				CAV	CIR	GAUGE	COLOR	TERM	A	K47	18	GY	2036586C1	B	K47A	18	GY	2036586C1																		
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					U00KLH1	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS																																																	
					RELEASE NO.	DATE	PART NO. SHEET																																																
					59929F	13OCT05	AE08-52376 45A																																																

Figure 251 Connector Composites (7500), (7502), (7503), (7600), (7601)

**12.59. CONNECTOR COMPOSITES (7600M), (7603), (7604), (7604M), (7605), (7606), (7607), (7607M), (7608), (7609), (7610), (7611), (7612), (7613), (7615), (7700), (7702), (7703), (7703A), P. 46**



**Figure 252 Connector Composites (7600M), (7603), (7604), (7604M), (7605), (7606), (7607), (7607M), (7608), (7609), (7610), (7611), (7612), (7613), (7615), (7700), (7702), (7703), (7703A)**

12.60. CONNECTOR COMPOSITES (7800), (7801M), (7801R), (7803), (7899), P. 47





<p><b>INTERNATIONAL TRUCK AND ENGINE CORPORATION</b></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><b>ELECTRICAL CIRCUIT DIAGRAM CHAPTER 12</b></p> <p>CONNECTOR COMPOSITES - MATING VIEW SHOWN</p>																																																																																																																																																																																																																																																
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  <p>CONNECTOR - 1667740C1 PLUG - 2025431C1 LOCK - 1667771C1</p> <p>W/16 ENGINES</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr><th>CAV</th><th>CIR</th><th>GAUGE</th><th>COLOR</th><th>TERM</th><th>SEAL</th></tr> </thead> <tbody> <tr><td>A</td><td>K47</td><td>1B</td><td>GY</td><td>1667742C1</td><td>1661872C1</td></tr> <tr><td>B</td><td>K47A</td><td>1B</td><td>GY</td><td>1667742C1</td><td>1661872C1</td></tr> <tr><td>C</td><td>K17E</td><td>1B</td><td>VT</td><td>1667742C1</td><td>1661872C1</td></tr> </tbody> </table> <p>W/VB ENGINES</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr><th>CAV</th><th>CIR</th><th>GAUGE</th><th>COLOR</th><th>TERM</th><th>SEAL</th></tr> </thead> <tbody> <tr><td>A</td><td>K47</td><td>1B</td><td>GY</td><td>1667742C1</td><td>1661872C1</td></tr> <tr><td>B</td><td>K47A</td><td>1B</td><td>GY</td><td>1667742C1</td><td>1661872C1</td></tr> <tr><td>C</td><td>K97AD</td><td>1B</td><td>VT</td><td>1667742C1</td><td>1661872C1</td></tr> </tbody> </table> <p>CONNECTOR - 3522251C1 LOCK - 3522253C1 PLUG - 2025431C1</p> <p>W/CAT C10, CAT C12, CUMMINS</p> <table border="1" style="width:100%; 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D	K5U	1B	YL	1661875C1	1661872C1																																																																																																																																																																																																																																												
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<p>TERMINATING RESISTOR (7801M)</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr><th>CAV</th><th>CIR</th><th>GAUGE</th><th>COLOR</th><th>TERM</th><th>SEAL</th><th>NOTES</th></tr> </thead> <tbody> <tr><td>A</td><td>K5C1-1</td><td>1B</td><td>YL</td><td>1661875C1</td><td>3566570C1</td><td></td></tr> <tr><td>A</td><td>K5D1-1</td><td>1B</td><td>YL</td><td>1661875C1</td><td>3566570C1</td><td></td></tr> <tr><td>A</td><td>K5C1B3</td><td>1B</td><td>YL</td><td>1661875C1</td><td>3566570C1</td><td></td></tr> <tr><td>A</td><td>K5AE</td><td>1B</td><td>GN</td><td>1661875C1</td><td>3566570C1</td><td>W/ VB ENGINE</td></tr> <tr><td>A</td><td>K5A1-1</td><td>1B</td><td>YL</td><td>1661875C1</td><td>3566570C1</td><td>W/ MWM ENGINE</td></tr> <tr><td>B</td><td>K13Z</td><td>1B</td><td>PK</td><td>1661875C1</td><td>1661872C1</td><td>W/ 1B ENGINE</td></tr> <tr><td>C</td><td>K5C1-1</td><td>1B</td><td>GN</td><td>1661875C1</td><td>3566570C1</td><td></td></tr> <tr><td>C</td><td>K5D1-1</td><td>1B</td><td>GN</td><td>1661875C1</td><td>3566570C1</td><td></td></tr> <tr><td>C</td><td>K5C1B4</td><td>1B</td><td>GN</td><td>1661875C1</td><td>3566570C1</td><td></td></tr> <tr><td>C</td><td>K5U</td><td>1B</td><td>YL</td><td>1661875C1</td><td>3566570C1</td><td>W/ VB ENGINE</td></tr> <tr><td>C</td><td>K5A1-1</td><td>1B</td><td>GN</td><td>1661875C1</td><td>3566570C1</td><td>W/ MWM ENGINE</td></tr> </tbody> </table> <p>CONNECTOR - 1667741C1 PLUG - 2025431C1 LOCK - 1667771C1</p>	CAV	CIR	GAUGE	COLOR	TERM	SEAL	NOTES	A	K5C1-1	1B	YL	1661875C1	3566570C1		A	K5D1-1	1B	YL	1661875C1	3566570C1		A	K5C1B3	1B	YL	1661875C1	3566570C1		A	K5AE	1B	GN	1661875C1	3566570C1	W/ VB ENGINE	A	K5A1-1	1B	YL	1661875C1	3566570C1	W/ MWM ENGINE	B	K13Z	1B	PK	1661875C1	1661872C1	W/ 1B ENGINE	C	K5C1-1	1B	GN	1661875C1	3566570C1		C	K5D1-1	1B	GN	1661875C1	3566570C1		C	K5C1B4	1B	GN	1661875C1	3566570C1		C	K5U	1B	YL	1661875C1	3566570C1	W/ VB ENGINE	C	K5A1-1	1B	GN	1661875C1	3566570C1	W/ MWM ENGINE	<p>• INVERTER J1939 CONN (7801R)</p> <p>• W/16 ENGINES ONLY</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr><th>CAV</th><th>CIR</th><th>GAUGE</th><th>COLOR</th><th>TERM</th><th>SEAL</th></tr> </thead> <tbody> <tr><td>A</td><td>K5G1-1</td><td>1B</td><td>YL</td><td>1661875C1</td><td>3566570C1</td></tr> <tr><td>B</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>C</td><td>K5G1-1</td><td>1B</td><td>GN</td><td>1661875C1</td><td>3566570C1</td></tr> </tbody> </table> <p>CONNECTOR - 1667741C1 PLUG - 2025431C1 LOCK - 1667771C1</p>	CAV	CIR	GAUGE	COLOR	TERM	SEAL	A	K5G1-1	1B	YL	1661875C1	3566570C1	B	-	-	-	-	-	C	K5G1-1	1B	GN	1661875C1	3566570C1																																																																																																																																				
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Figure 253 Connector Composites (7800), (7801M), (7801R), (7803), (7899)

12.61. CONNECTOR COMPOSITES (7900), (7901), (7905), (7906), P. 48

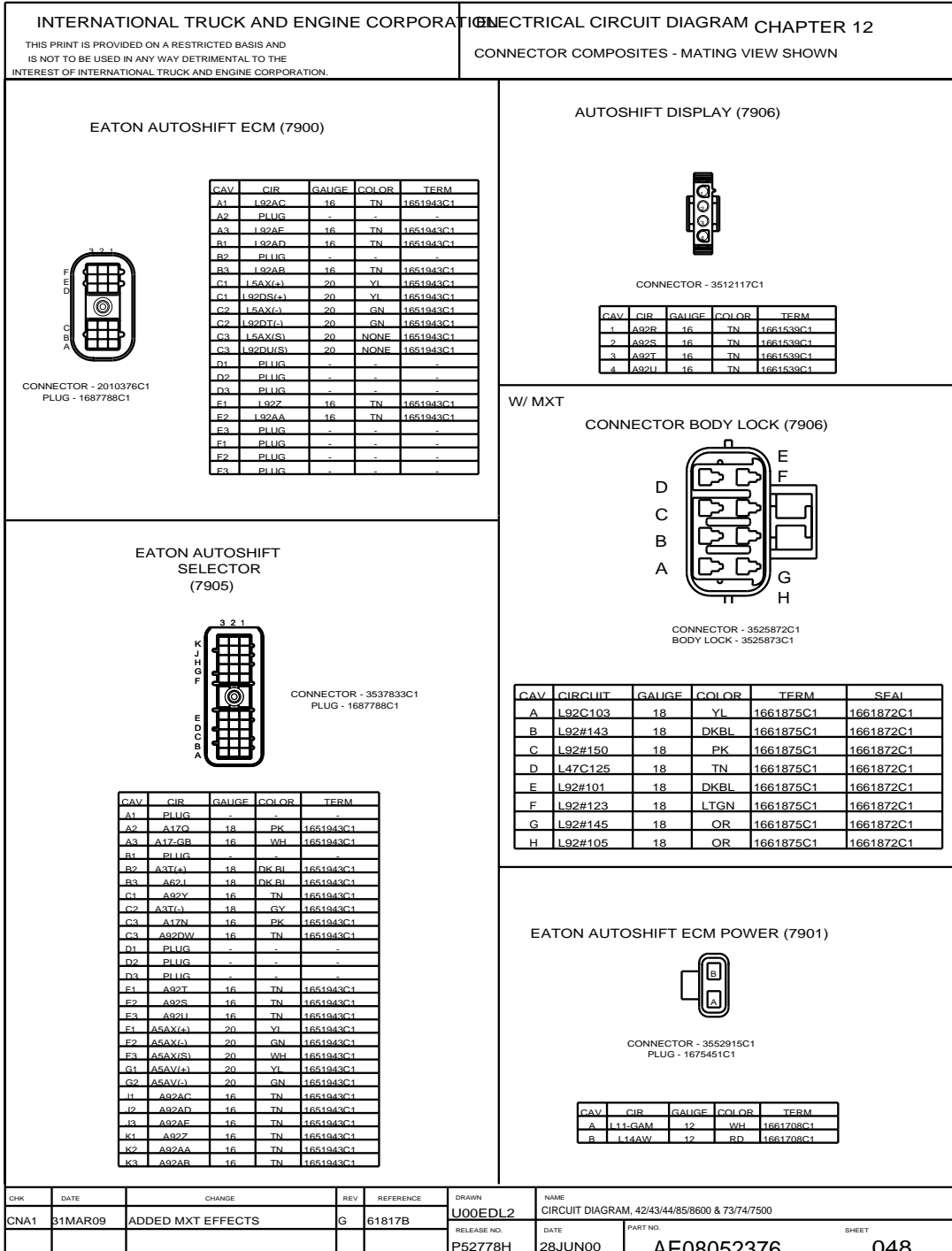


Figure 254 Connector Composites (7900), (7901), (7905), (7906)



12.62. CONNECTOR COMPOSITES (7909), (8000), (8001), (8102), (8150), (8151), (8200), P. 49

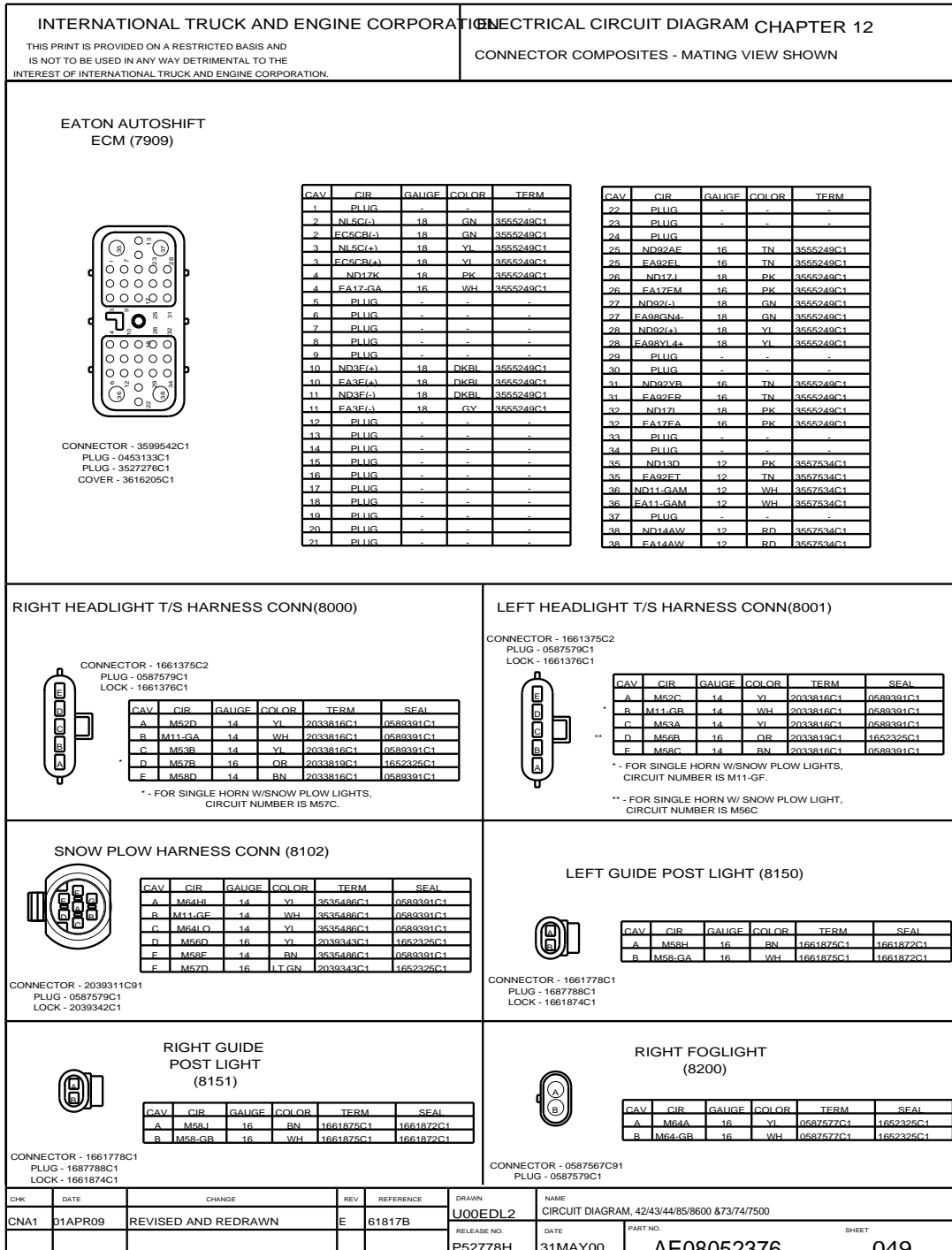












Figure 255 Connector Composites (7909), (8000), (8001), (8102), (8150), (8151), (8200)

**12.63. CONNECTOR COMPOSITES (8201), (8301), (8310), (8311), (8312), (8400), (8500), (8501), (8502), (8502A), P. 50**

INTERNATIONAL TRUCK AND ENGINE CORPORATION		ELECTRICAL CIRCUIT DIAGRAM CHAPTER 12																																																											
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.		CONNECTOR COMPOSITES - MATING VIEW SHOWN																																																											
<p style="text-align: center;"><b>LEFT FOGLIGHT (8201)</b></p>  <p style="text-align: center;">CONNECTOR - 0587567C91 PLUG - 0587579C1</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr><th>CAV</th><th>CIR</th><th>GAUGE</th><th>COLOR</th><th>TERM</th><th>SEAL</th></tr> </thead> <tbody> <tr><td>A</td><td>M84B</td><td>16</td><td>YL</td><td>0587577C1</td><td>1652325C1</td></tr> <tr><td>B</td><td>M84-GA</td><td>16</td><td>WH</td><td>0587577C1</td><td>1652325C1</td></tr> </tbody> </table>	CAV	CIR	GAUGE	COLOR	TERM	SEAL	A	M84B	16	YL	0587577C1	1652325C1	B	M84-GA	16	WH	0587577C1	1652325C1	<p style="text-align: center;"><b>ELECTRIC HORN (8301)</b></p>  <p style="text-align: center;">CONNECTOR - 1661778C1 PLUG - 1687788C1 LOCK - 1661874C1</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr><th>CAV</th><th>CIR</th><th>GAUGE</th><th>COLOR</th><th>TERM</th><th>SEAL</th></tr> </thead> <tbody> <tr><td>A</td><td>M85E</td><td>16</td><td>GY</td><td>1661875C1</td><td>1661872C1</td></tr> <tr><td>B</td><td>M85-GA</td><td>16</td><td>WH</td><td>1661875C1</td><td>1661872C1</td></tr> </tbody> </table>	CAV	CIR	GAUGE	COLOR	TERM	SEAL	A	M85E	16	GY	1661875C1	1661872C1	B	M85-GA	16	WH	1661875C1	1661872C1																								
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<p style="text-align: center;"><b>DUAL ELECTRIC HORNS (8310)</b></p>  <p style="text-align: center;">CONNECTOR - 3543888C1 PLUG - 2025431C1 LOCK - 1661874C1</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr><th>CAV</th><th>CIR</th><th>GAUGE</th><th>COLOR</th><th>TERM</th><th>SEAL</th></tr> </thead> <tbody> <tr><td>A</td><td>M85-I</td><td>16</td><td>GY</td><td>1667742C1</td><td>1661872C1</td></tr> <tr><td>B</td><td>M85-GC</td><td>16</td><td>WH</td><td>1667742C1</td><td>1661872C1</td></tr> </tbody> </table>	CAV	CIR	GAUGE	COLOR	TERM	SEAL	A	M85-I	16	GY	1667742C1	1661872C1	B	M85-GC	16	WH	1667742C1	1661872C1	<p style="text-align: center;"><b>ELECTRIC HORN #1 (8311)</b></p>  <p style="text-align: center;">CONNECTOR - 1661778C1 PLUG - 1687788C1 LOCK - 1661874C1</p> <p style="text-align: center; font-size: x-small;">W/ SINGLE HORN</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr><th>CAV</th><th>CIR</th><th>GAUGE</th><th>COLOR</th><th>TERM</th><th>SEAL</th></tr> </thead> <tbody> <tr><td>A</td><td>M85-L</td><td>16</td><td>GY</td><td>1661875C1</td><td>1661872C1</td></tr> <tr><td>B</td><td>M85-GC</td><td>16</td><td>WH</td><td>1661875C1</td><td>1661872C1</td></tr> </tbody> </table> <p style="text-align: center; font-size: x-small;">W/ DUAL HORNS</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr><th>CAV</th><th>CIR</th><th>GAUGE</th><th>COLOR</th><th>TERM</th><th>SEAL</th></tr> </thead> <tbody> <tr><td>A</td><td>M85K</td><td>16</td><td>GY</td><td>1661875C1</td><td>1661872C1</td></tr> <tr><td>A*</td><td>M85N</td><td>20</td><td>GY</td><td>1661875C1</td><td>1661872C1</td></tr> <tr><td>B</td><td>M85-GD</td><td>16</td><td>WH</td><td>1661875C1</td><td>1661872C1</td></tr> </tbody> </table> <p style="text-align: center; font-size: x-small;">* W/ MXT</p>	CAV	CIR	GAUGE	COLOR	TERM	SEAL	A	M85-L	16	GY	1661875C1	1661872C1	B	M85-GC	16	WH	1661875C1	1661872C1	CAV	CIR	GAUGE	COLOR	TERM	SEAL	A	M85K	16	GY	1661875C1	1661872C1	A*	M85N	20	GY	1661875C1	1661872C1	B	M85-GD	16	WH	1661875C1	1661872C1
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**Figure 256 Connector Composites (8201), (8301), (8310), (8311), (8312), (8400), (8500), (8501), (8502), (8502A)**

**12.64. CONNECTOR COMPOSITES (8503), (8503A), (8505), (8506), (8507), (8508), (8509), (8600), (8601), (8602), P. 51**






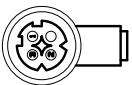
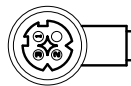



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		ADDED 8503-8602			P52778H	31MAY00	AE08-52376	SHEET 51																																					

Figure 257 Connector Composites (8503), (8503A), (8505), (8506), (8507), (8508), (8509), (8600), (8601), (8602)

12.65. CONNECTOR COMPOSITES (8700), (8701), (8800), (8801), (8802), (8803), (8805), P. 52



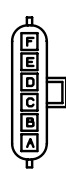
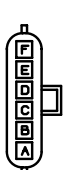
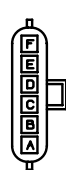
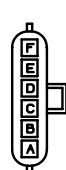










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GROUND ADAPTER #1 (8800)				GROUND ADAPTER #2 (8801)																																																																																							
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					P52778H	31.MAY00	AE08-52376 52																																																																																				

Figure 258 Connector Composites (8700), (8701), (8800), (8801), (8802), (8803), (8805)

**12.66. CONNECTOR COMPOSITES (9001), (9002), (9100), (9101), (9102), (9103), (9104), (9254), (9255), P. 53**

INTERNATIONAL TRUCK AND ENGINE CORPORATION				ELECTRICAL CIRCUIT DIAGRAM CHAPTER 12																																													
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.				CONNECTOR COMPOSITES - MATING VIEW SHOWN																																													
<b>LEFT SIDE HEATED DRAIN (9001)</b>  CONNECTOR - 1661778C1 PLUG - 1687788C1 LOCK - 1661874C1				<b>RIGHT SIDE HEATED DRAIN (9002)</b>  CONNECTOR - 1661778C1 PLUG - 1687788C1 LOCK - 1661874C1																																													
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<b>LEFT FUEL SENDER (9100)</b>  CONNECTOR - 1661778C1 PLUG - 1687788C1 LOCK - 1661874C1				<b>RIGHT FUEL SENDER (9101)</b>  CONNECTOR - 1661778C1 PLUG - 1687788C1 LOCK - 1661874C1																																													
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* - FOR DUAL MTD FUEL TANKS, CIRCUIT NUMBER IS N36E. ** - FOR AF MTD FUEL TANK, CIRCUIT NUMBER IS N9D.				& W/ MXT * FOR DUAL MTD FUEL TANKS, CIRCUIT NUMBER IS N36C.																																													
<b>FUEL TRANSFER PUMP (9102)</b>  CONNECTOR - 3522088C1 LOCK - 1661874C1				<b>RIGHT SIDE FUEL SENDER (9103)</b>  CONNECTOR - 1661778C1 PLUG - 1661874C1 LOCK - 2025431C1																																													
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THIS SPACE INTENTIONALLY LEFT BLANK				<b>FUEL TRANSFER PUMP INTERCONNECT (9104)</b>  CONNECTOR - 0587568C91 PLUG - 0587579C1 LOCK - N/A																																													
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B	N36B	18	TN	0587579C1	1652325C1																																												
<b>ENG ECM FEED FUSE CONN (9254)</b>  CONNECTOR - 1667639C1 PLUG - 1675451C1				<b>TRANS ECU FEED FUSE CONN (9255)</b>  CONNECTOR - 1667639C1 PLUG - 1675451C1																																													
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CNA1	31MAR09	ADDED MXT EFFECTS	E	61817B	U00EDL2	P52778H	28-JUN00																																										
						PART NO.	SHEET																																										
						AE08052376	053																																										

**Figure 259 Connector Composites (9001), (9002), (9100), (9101), (9102), (9103), (9104), (9254), (9255)**

12.67. CONNECTOR COMPOSITES (9260), (9261), (9262), (9263), P. 54


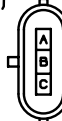

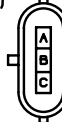








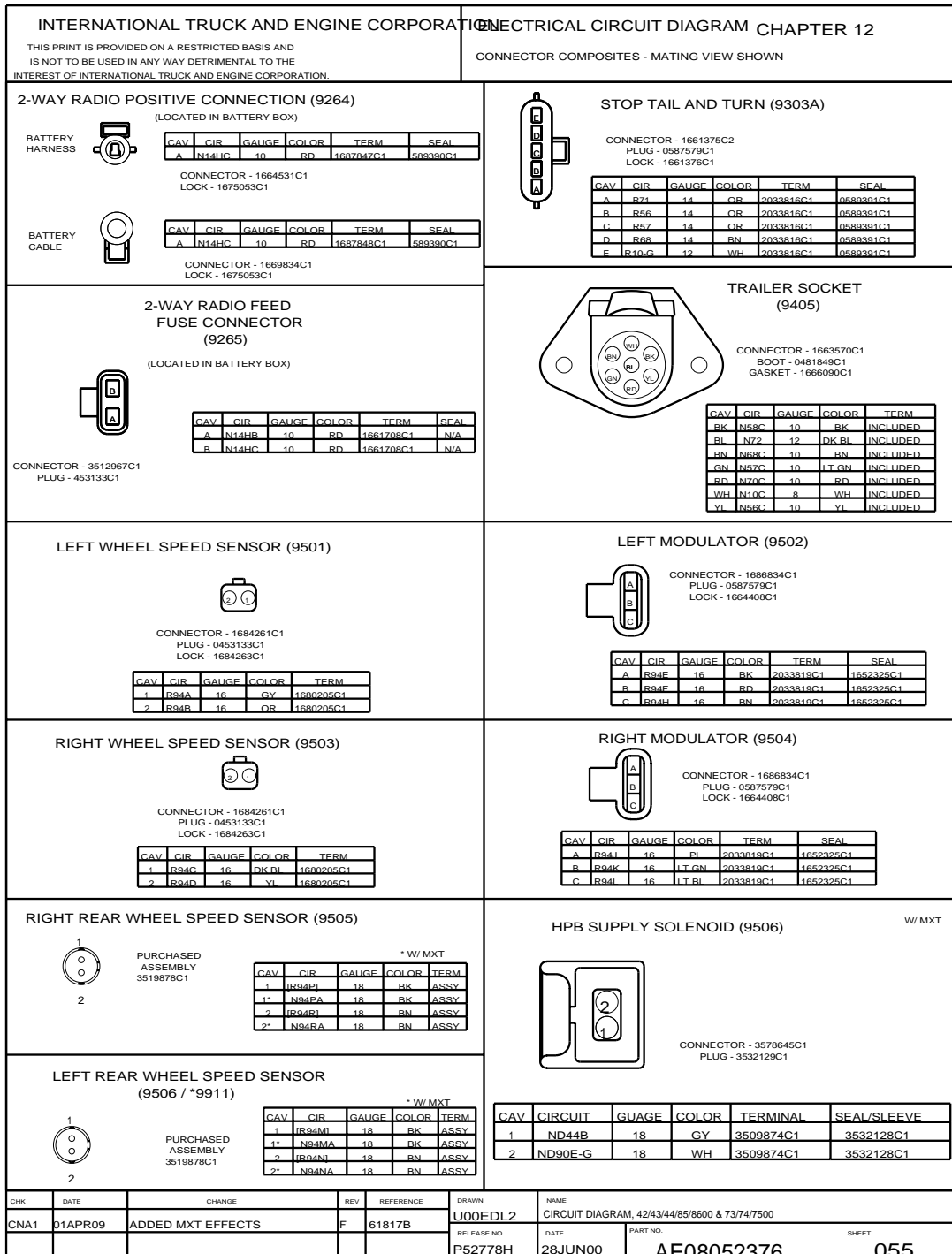
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PART NO. AE08-52376 SHEET 54																																																	

Figure 260 Connector Composites (9260), (9261), (9262), (9263)

**12.68. CONNECTOR COMPOSITES , (9264), (9265), (9303A), (9405), (9501), (9502), (9503), (9504), (9505), (9506), (9506/9911), P. 55**



**Figure 261 Connector Composites , (9264), (9265), (9303A), (9405), (9501), (9502), (9503), (9504), (9505), (9506), (9506/9911)**

12.69. CONNECTOR COMPOSITES (9507), (9508), (9509), (9510), (9511), (9512), (9513), (9514), (9515), P. 56

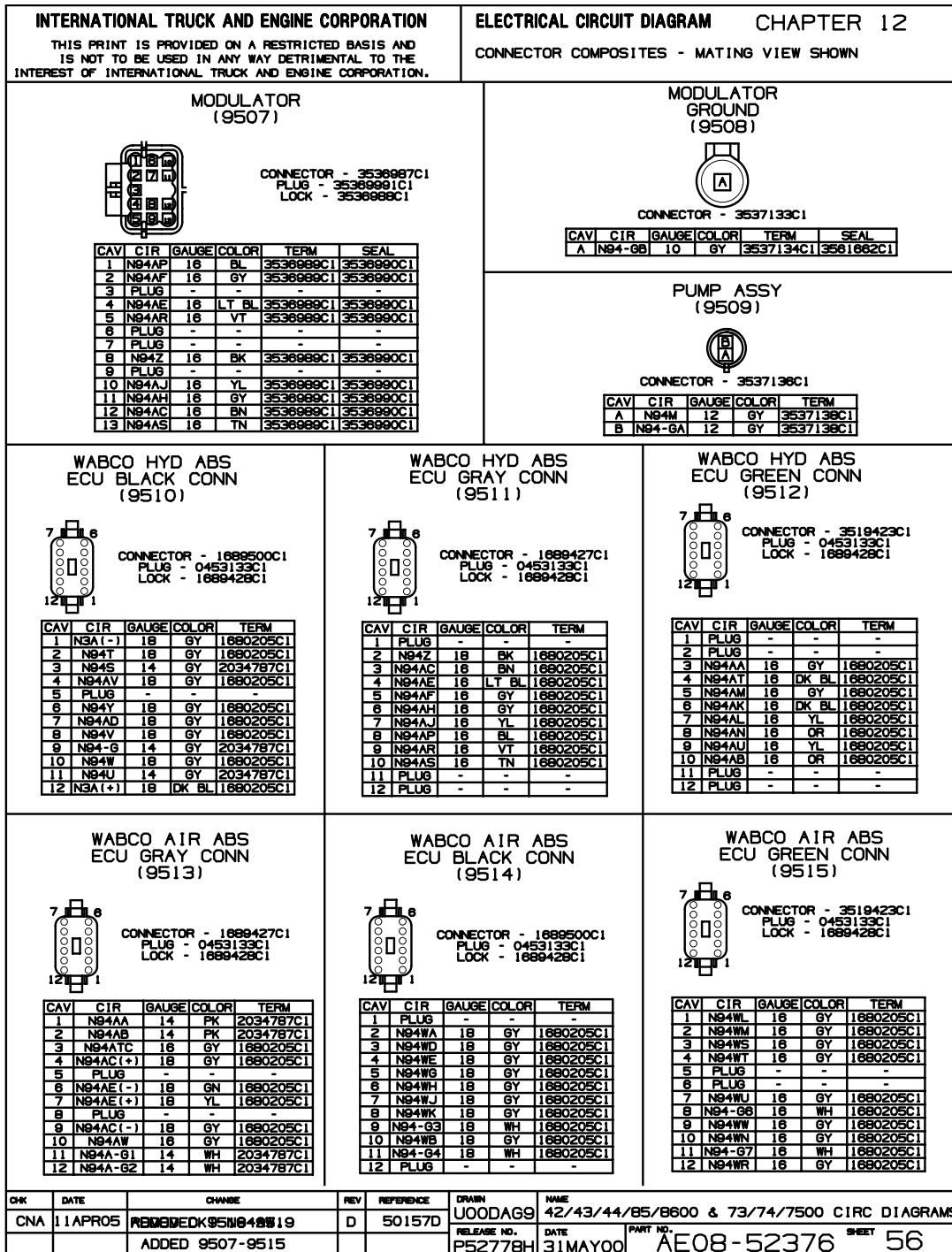


Figure 262 Connector Composites (9507), (9508), (9509), (9510), (9511), (9512), (9513), (9514), (9515)



12.70. CONNECTOR COMPOSITES (9516), (9517), (9518), (9519), (9520E), (9520F), (9521), (9528), P. 57

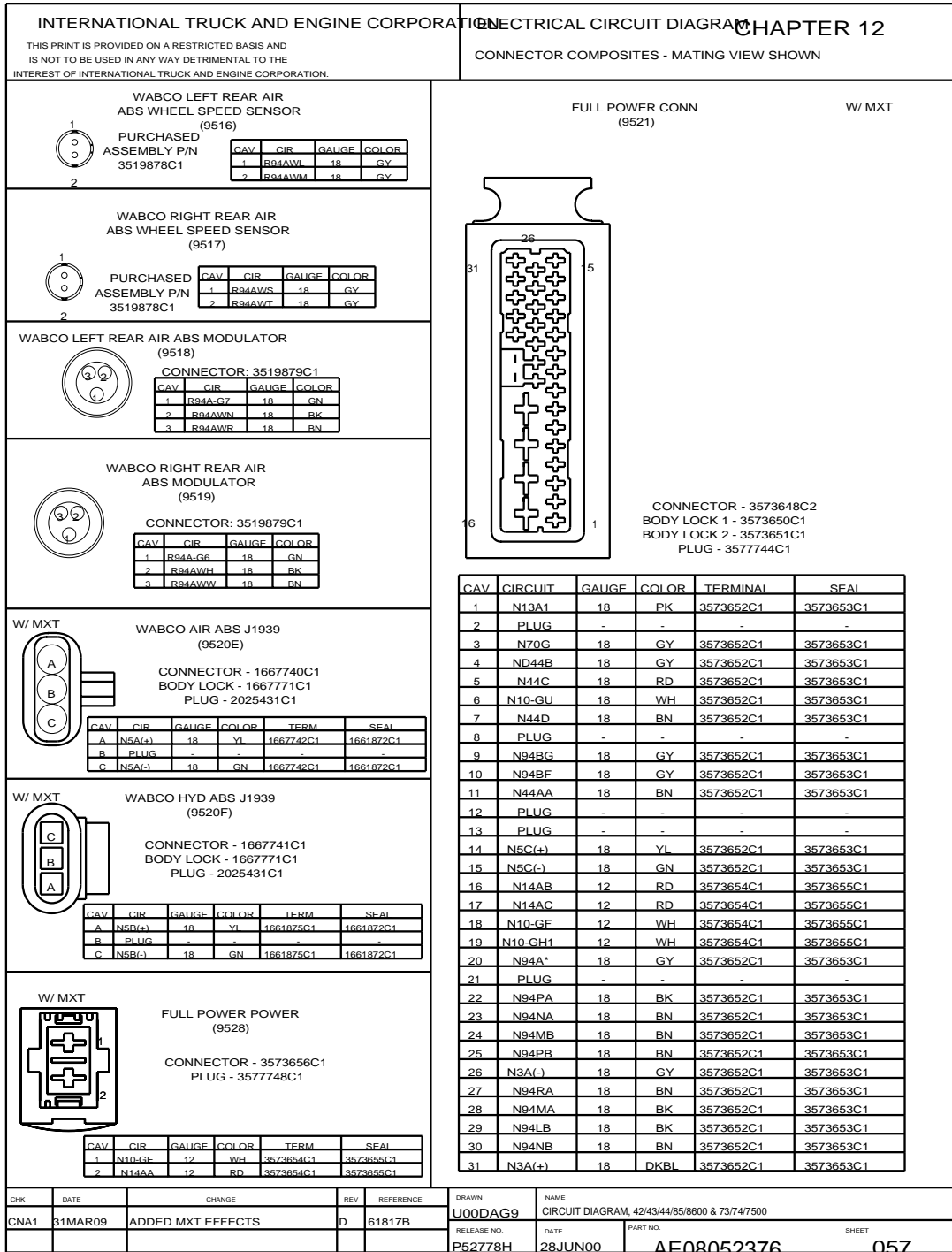


Figure 263 Connector Composites (9516), (9517), (9518), (9519), (9520E), (9520F), (9521), (9528)

12.71. CONNECTOR COMPOSITE (9700), P. 58

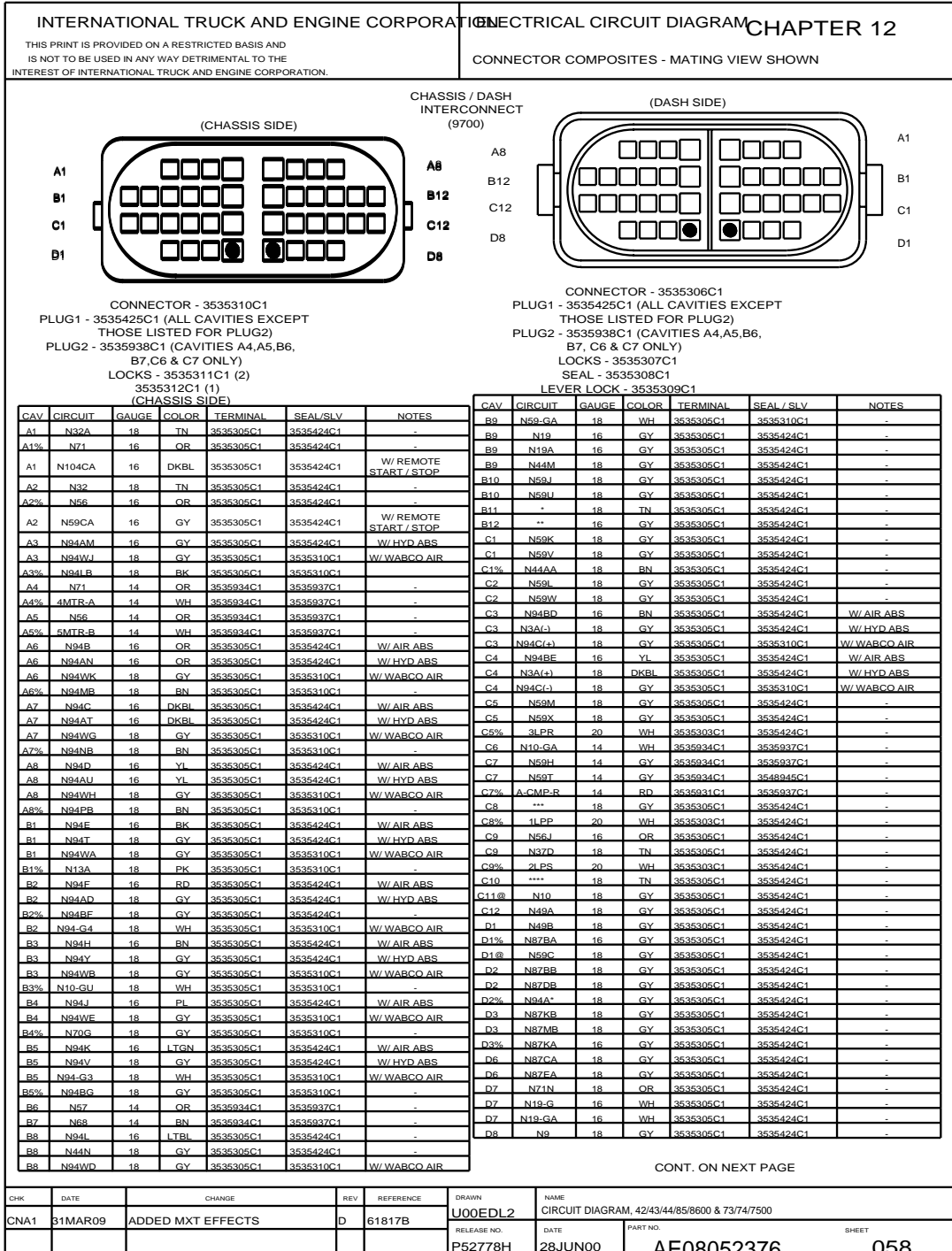


Figure 264 Connector Composite (9700)

12.72. CONNECTOR COMPOSITE (9700), P. 59

INTERNATIONAL TRUCK AND ENGINE CORPORATION						ELECTRICAL CIRCUIT DIAGRAM CHAPTER 12							
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.						CONNECTOR COMPOSITES - MATING VIEW SHOWN							
CHASSIS / DASH INTERCONNECT (9700)													
CONT. FROM PREVIOUS PAGE													
(DASH SIDE)													
CAV	CIRCUIT	GAUGE	COLOR	TERMINAL	SEAL / SLV	NOTES	CAV	CIRCUIT	GAUGE	COLOR	TERMINAL	SEAL / SLV	NOTES
A1	J32	18	TN	3535303C1	3535424C1	-	C1	J59B	18	GY	3535303C1	3535424C1	-
A1%	J71A	18	OR	3535303C1	3535424C1	-	C2	J59C	18	GY	3535303C1	3535424C1	-
A1	J104C	18	DKBL	3535303C1	3535424C1	W/ REMOTE START / STOP	C3	J94ATC	18	GY	3535303C1	3535424C1	W/ AIR ABS
A2	J32A	18	TN	3535303C1	3535424C1	-	C3	J3C(-)	18	GY	3535303C1	3535424C1	W/ HYD ABS
A2%	J56B	16	OR	3535303C1	3535424C1	-	C3%	J3C(-)	20	GY	3535303C1	3535424C1	-
A2	J59	16	GY	3535930C1	3535936C1	W/ REMOTE START / STOP	C4	J94ATR	18	GY	3535303C1	3535424C1	W/ AIR ABS
A3	J94AB	18	GY	3535303C1	3535424C1	W/ AIR ABS	C4	J3C(+)	18	DKBL	3535303C1	3535424C1	W/ HYD ABS
A3	J94HM	18	GY	3535303C1	3535424C1	W/ HYD ABS	C4%	J3C(+)	20	DKBL	3535303C1	3535424C1	-
A3%	J94L	18	BK	3535303C1	3535424C1	-	C5	J59D	18	GY	3535303C1	3535424C1	-
A4	J71A	18	OR	3535930C1	3535936C1	-	C5%	JLPR	20	WH	3535303C1	3535424C1	-
A4%	JMTR-A	14	WH	3535931C1	3535937C1	-	C6	J11-GA	14	WH	3535931C1	3535937C1	-
A5	J56B	16	OR	3535930C1	3535936C1	-	C7	J59E	14	GY	3535931C1	3535937C1	-
A5%	JMTR-B	14	WH	3535931C1	3535937C1	-	C7%	JCMPR	14	WH	3535931C1	3535937C1	-
A6	J94AA	18	OR	3535303C1	3535424C1	W/ AIR ABS	C8	J39B	16	GY	3535303C1	3535424C1	-
A6	J94HN	18	OR	3535303C1	3535424C1	W/ HYD ABS	C8%	JLPP	20	WH	3535303C1	3535424C1	-
A6%	J94M	18	BN	3535303C1	3535424C1	-	C9	J37	16	TN	3535303C1	3535424C1	-
A7	J94AL	18	DKBL	3535303C1	3535424C1	W/ AIR ABS	C9%	JLPS	20	WH	3535303C1	3535424C1	-
A7	J94HT	18	DKBL	3535303C1	3535424C1	W/ HYD ABS	C10	J36B	18	TN	3535303C1	3535424C1	-
A7%	J94N	18	BN	3535303C1	3535424C1	-	C11@	J10	18	GY	3535303C1	3535424C1	-
A8	J94AK	18	YL	3535303C1	3535424C1	W/ AIR ABS	C12	J49A	18	GY	3535303C1	3535424C1	-
A8	J94HU	18	YL	3535303C1	3535424C1	W/ HYD ABS	D1	J49B	18	GY	3535303C1	3535424C1	-
A8%	J94P	18	BN	3535303C1	3535424C1	-	D1%	J87BA	18	GY	3535303C1	3535424C1	-
B1	J94AC	18	BK	3535303C1	3535424C1	W/ AIR ABS	D1@	J59C	18	GY	3535303C1	3535424C1	-
B1	J94HD	18	GY	3535303C1	3535424C1	W/ HYD ABS	D2	J87B	18	GY	3535303C1	3535424C1	-
B1%	J13A	18	PK	3535303C1	3535424C1	-	D3	J87K	16	GY	3535303C1	3535424C1	-
B2	J94AD	18	RD	3535303C1	3535424C1	W/ AIR ABS	D6	J87CA	18	GY	3535303C1	3535424C1	-
B2	J94HV	18	GY	3535303C1	3535424C1	W/ HYD ABS	D7	J71N	18	OR	3535303C1	3535424C1	-
B2%	J94BF	18	GY	3535303C1	3535424C1	-	D8	J9G	18	GY	3535303C1	3535424C1	-
B3	J94AE	18	BN	3535303C1	3535424C1	W/ AIR ABS							
B3	J94HX	18	GY	3535303C1	3535424C1	W/ HYD ABS							
B3%	J10-GU	18	WH	3535303C1	3535424C1	-							
B4	J94AF	18	PL	3535303C1	3535424C1	W/ AIR ABS							
B4%	J70G	18	GY	3535303C1	3535424C1	-							
B5	J94AH	18	LTGN	3535303C1	3535424C1	W/ AIR ABS							
B5	J94HP	18	GY	3535303C1	3535424C1	W/ HYD ABS							
B5%	J94BG	18	GY	3535303C1	3535424C1	-							
B6	J57B	16	OR	3535930C1	3535936C1	-							
B7	J56B	14	BN	3535931C1	3535937C1	-							
B8	J94J	18	GY	3535303C1	3535424C1	-							
B8	J4N	16	GY	3535303C1	3535424C1	-							
B9	N59-GA	18	WH	3535303C1	3535424C1	-							
B9	J44M	18	GY	3535303C1	3535424C1	-							
B10	J59A	18	GY	3535303C1	3535424C1	-							
B11	J36A	18	TN	3535303C1	3535424C1	-							
B11%	A36A	18	TN	3535303C1	3535424C1	-							
B12	J39A	16	GY	3535303C1	3535424C1	-							

* - FOR LEFT SIDE MTD FUEL TANKS, CIR NUM IS N36; FOR RIGHT SIDE MTD FUEL TANKS AND FOR MXT CIR NUM IS N36A; FOR DUAL FUEL TANKS, CIR NUM IS N36B FOR AF MTD FUEL TANKS, CIR NUM IS N36C;
** - FOR LEFT SIDE MTD AIR DRYERS, CIR NUM IS N39B; FOR RIGHT SIDE MTD AIR DRYERS, CIR NUM IS N39C;
*** - FOR LEFT SIDE MTD DRAIN VALVES, CIR NUM IS N39; FOR RIGHT SIDE MTD DRAIN VALVES, CIR NUM IS N39A;
**** - FOR SINGLE TANK, CIR NUM IS N36; FOR DUAL TANKS, CIR NUM IS N36H;
@ - W/ 5TH WHEEL OPTION
& - W/ COMMUNICATION SYSTEM, AWARE
% - W/ MXT VEHICLE

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
CNA1	31MAR09	ADDED MXT EFFECTS	D	61817B	UOODLCK	CIRCUIT DIAGRAM, 42/43/44/85/8600 & 73/74/7500
					RELEASE NO. P54634F	DATE 14JUN01 PART NO. AE08052376 SHEET 059

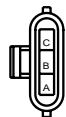
Figure 265 Connector Composite (9700)

12.73. CONNECTOR COMPOSITES (9715/9780), (9715A), (9715B), P. 60

INTERNATIONAL TRUCK AND ENGINE CORPORATION		ELECTRICAL CIRCUIT DIAGRAM CHAPTER 12	
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.		CONNECTOR COMPOSITES - MATING VIEW SHOWN	

**TRAILER SOCKET #1 (9715 / \* 9780)**



CONNECTOR - 1667733C1  
PLUG - 1675451C1  
LOCK - 1667734C1

W / EOF OR BOC TRAILER SOCKET & EOF BODY BUILDER CONNECTOR

CAV	CIR	GAUGE	COLOR	TERM	SEAL
A	N70D	10	RD	1667737C1	1667735C1
B	N68D	10	BN	1667737C1	1667735C1
C	N84D	10	GY	1667737C1	1667735C1

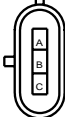
W / BOC TRAILER SOCKET

CAV	CIR	GAUGE	COLOR	TERM	SEAL
A	N70	10	RD	1667737C1	1667735C1
B	N68	10	BN	1667737C1	1667735C1
C	N84	10	DK BL	1667737C1	1667735C1

W / BOC AND AUX BOC TRAILER SOCKET

CAV	CIR	GAUGE	COLOR	TERM	SEAL
A	N70A	10	RD	1667737C1	1667735C1
A*	N70A	10	OR	1667737C1	1667735C1
B	N68A	10	BN	1667737C1	1667735C1
C	N94A	10	DK BL	1667737C1	1667735C1
C*	N94A	10	GY	1667737C1	1667735C1

\* W/ MXT



CONNECTOR - 1667732C1  
PLUG - 1675451C1  
LOCK - 1667734C1

NOT W / BOC BODY BUILDER CONNECTORS

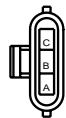
CAV	CIR	GAUGE	COLOR	TERM	SEAL
A	J70A	10	OR	2025425C1	1667735C1
B	J68F	12	BN	2025424C1	1671603C1
C	J94BC	10	GY	2025425C1	1667735C1

W / BOC BODY BUILDER CONNECTORS

CAV	CIR	GAUGE	COLOR	TERM	SEAL
A	J70A	10	OR	2025425C1	1667735C1
B	J68F	16	BN	1667736C1	1664232C1
C	J94BC	10	GY	2025425C1	1667735C1

**TRAILER SOCKET #1 (9715A)**



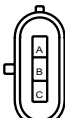
CONNECTOR - 1667733C1  
PLUG - 1675451C1  
LOCK - 1667734C1

W / EOF TRAILER SOCKET OR EOF BODY BUILDER CONNECTOR

CAV	CIR	GAUGE	COLOR	TERM	SEAL
A	N70D	10	RD	1667737C1	1667735C1
B	N68D	10	BN	1667737C1	1667735C1
C	N84D	10	GY	1667737C1	1667735C1

W / BOC TRAILER SOCKET AND EOF BODY BUILDER CONNECTOR

CAV	CIR	GAUGE	COLOR	TERM	SEAL
A	N70F	10	RD	1667737C1	1667735C1
B	N68F	10	BN	1667737C1	1667735C1
C	N94F	10	GY	1667737C1	1667735C1



CONNECTOR - 1667732C1  
PLUG - 1675451C1  
LOCK - 1667734C1

W / EOF TRAILER SOCKET

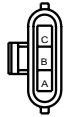
CAV	CIR	GAUGE	COLOR	TERM	SEAL
A	J70A	10	RD	2025425C1	1667735C1
B	J68A	10	BN	2025425C1	1667735C1
C	J94A	10	DK BL	2025425C1	1667735C1

W / EOF BODY BUILDER CONNECTOR

CAV	CIR	GAUGE	COLOR	TERM	SEAL
A	J70	10	RD	2025425C1	1667735C1
B	J68	10	BN	2025425C1	1667735C1
C	J94	10	GY	2025425C1	1667735C1

**TRAILER SOCKET #1 (9715B)**



CONNECTOR - 1667733C1  
PLUG - 1675451C1  
LOCK - 1667734C1

CAV	CIR	GAUGE	COLOR	TERM	SEAL
A	B70	10	RD	1667737C1	1667735C1
B	B68	10	BN	1667737C1	1667735C1
C	B94	10	GY	1667737C1	1667735C1

BOC - BACK OF CAB  
EOF - END OF FRAME

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
CNA1	31MAR09	ADDED MXT EFFECTS	B	61817B	U00EDL2	CIRCUIT DIAGRAM, 42/43/44/85/8600 & 73/74/7500
					RELEASE NO.	DATE
					P52778H	31MAY00
						PART NO.
						AE08052376
						SHEET
						060

Figure 266 Connector Composites (9715/9780), (9715A), (9715B)

12.74. CONNECTOR COMPOSITES (9716/9779), (9716A), (9716B), P. 61

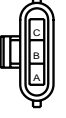
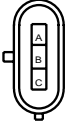
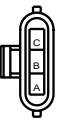
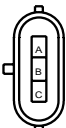
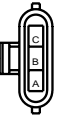
INTERNATIONAL TRUCK AND ENGINE CORPORATION				ELECTRICAL CIRCUIT DIAGRAM CHAPTER 12																																												
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<p>TRAILER SOCKET #2 (9716 / * 9779)</p>																																																
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A	N58D	10	BN	2025425C1	1667735C1																																											
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C	N57D	10	LT GN	2025425C1	1667735C1																																											
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C*	N57A	10	OR	2025425C1	1667735C1																																											
<p>* W/ MXT</p>																																																
<p>TRAILER SOCKET #2 (9716A)</p>																																																
<p>CONNECTOR - 1667733C1 PLUG - 1675451C1 LOCK - 1667734C1</p> 		 <p>CONNECTOR - 1667732C1 PLUG - 1675451C1 LOCK - 1667734C1</p>																																														
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<p>TRAILER SOCKET #2 (9716B)</p>																																																
<p>CONNECTOR - 1667733C1 PLUG - 1675451C1 LOCK - 1667734C1</p> 																																																
<p>BOC - BACK OF CAB EOF - END OF FRAME</p>																																																
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Figure 267 Connector Composites (9716/9779), (9716A), (9716B)

12.75. CONNECTOR COMPOSITES (9717A), (9717B), P. 62

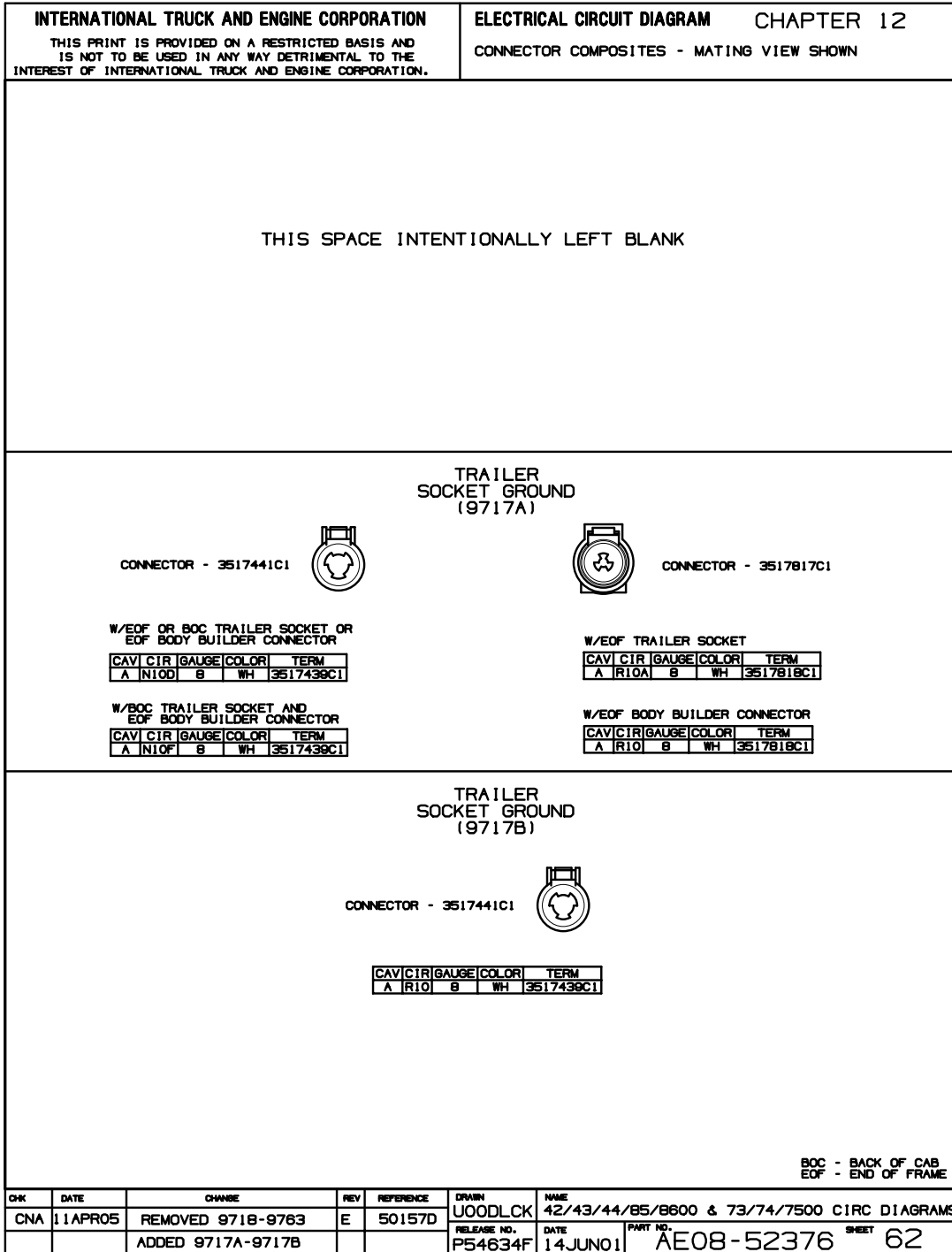


Figure 268 Connector Composites (9717A), (9717B)

**12.76. CONNECTOR COMPOSITES (9718), (9719), (9720), (9722), (9733), (9734), (9736), (9739), (9740), (9741), P. 63**

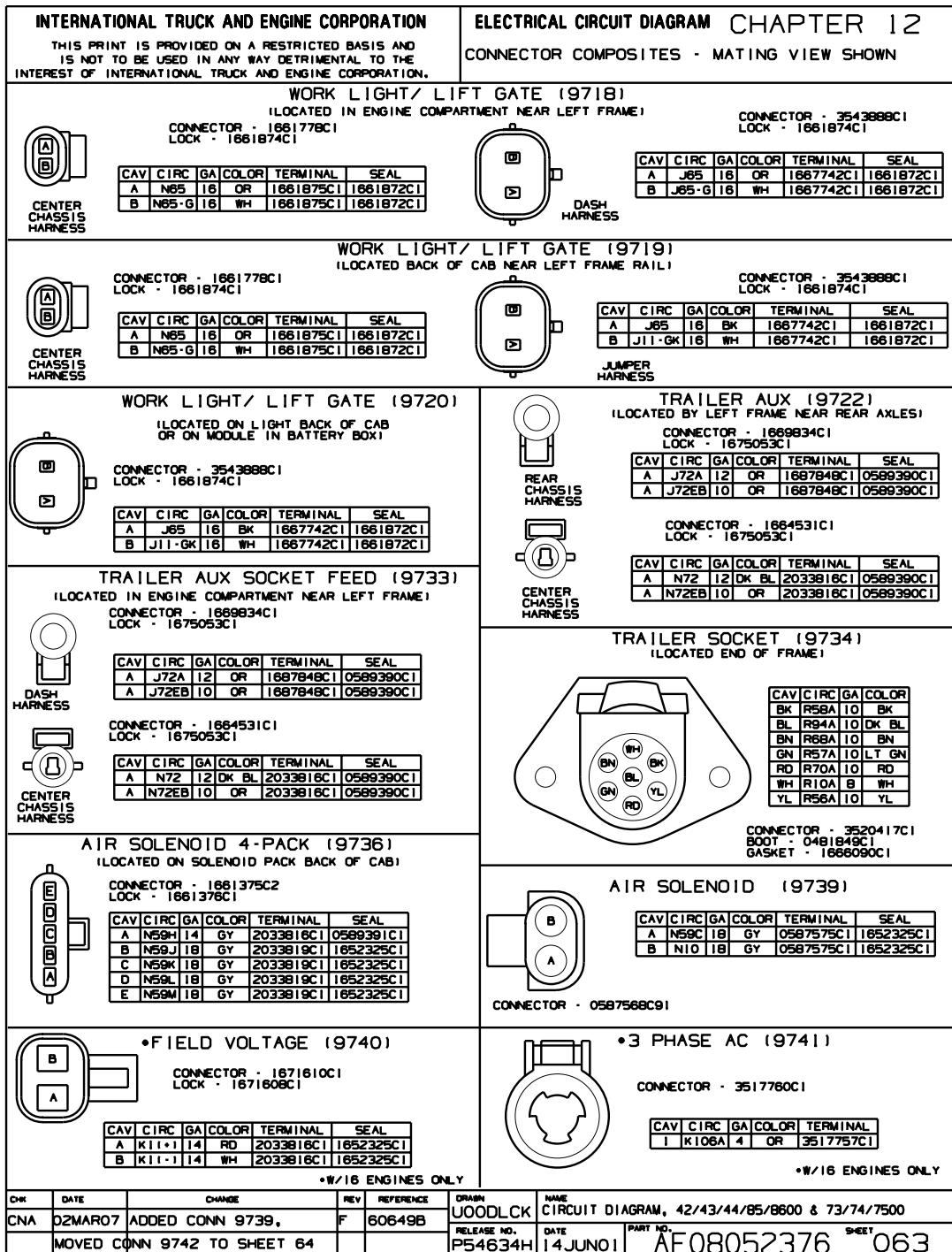
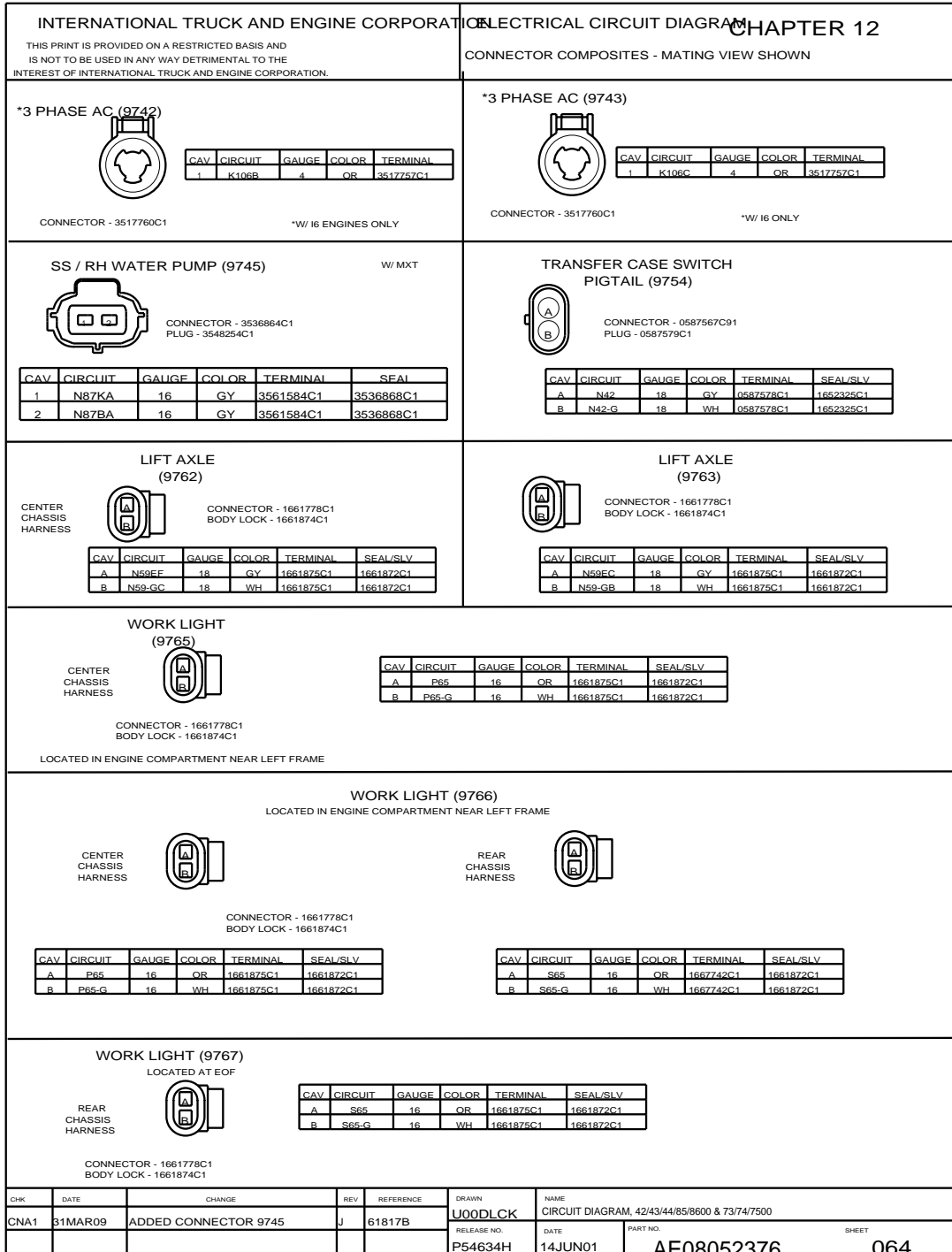


Figure 269 Connector Composites (9718), (9719), (9720), (9722), (9733), (9734), (9736), (9739), (9740), (9741)

**12.77. CONNECTOR COMPOSITES (9742), (9743), (9745), (9754), (9762), (9763), (9765), (9766), (9767), P. 64**



**Figure 270 Connector Composites (9742), (9743), (9745), (9754), (9762), (9763), (9765), (9766), (9767)**



12.78. CONNECTOR COMPOSITES (9777), (9778), P. 65



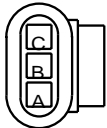
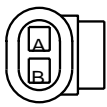
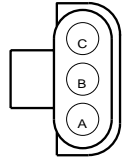
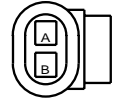














INTERNATIONAL TRUCK AND ENGINE CORPORATION				ELECTRICAL CIRCUIT DIAGRAM		CHAPTER 12																																											
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Figure 271 Connector Composites (9777), (9778)

**12.79. CONNECTOR COMPOSITES (9870), (9871), (9811), (9812), (9814), (9815), (9830), (9850), (9860), (9865M), (9900), (9900A), (9913A), P. 66**

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 12 CONNECTOR COMPOSITES - MATING VIEW SHOWN																																													
<p style="text-align: center;"><b>AIR SUSPENSION DUMP VALVE 4X2 (9870)</b> (LOCATED NEAR REAR AXLE ON CROSSMEMBER)</p>  <p>CONNECTOR - 0587568C91 SEAL - 1652325C1 TERMINAL - 0587576C1</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>CAV</th> <th>CIR</th> <th>GAUGE</th> <th>COLOR</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>NG1A</td> <td>18</td> <td>GY</td> </tr> <tr> <td>B</td> <td>NG1-GA</td> <td>18</td> <td>GY</td> </tr> </tbody> </table>	CAV	CIR	GAUGE	COLOR	A	NG1A	18	GY	B	NG1-GA	18	GY	<p style="text-align: center;"><b>AIR SUSPENSION DUMP VALVE 6X4 (9871)</b> (LOCATED NEAR REAR AXLE ON CROSSMEMBER)</p>  <p>CONNECTOR - 0587568C91 SEAL - 1652325C1 TERMINAL - 0587576C1</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>CAV</th> <th>CIR</th> <th>GAUGE</th> <th>COLOR</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>NG1AA</td> <td>18</td> <td>GY</td> </tr> <tr> <td>B</td> <td>NG1-GB</td> <td>18</td> <td>GY</td> </tr> </tbody> </table>	CAV	CIR	GAUGE	COLOR	A	NG1AA	18	GY	B	NG1-GB	18	GY																						
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<p style="text-align: center;"><b>FR AXLE TEMP SENDER (9811)</b> (LOCATED ON AXLE)</p>  <p>CONNECTOR - 3536864C1</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>CAV</th> <th>CIR</th> <th>GAUGE</th> <th>COLOR</th> <th>TERM</th> <th>SEAL</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>R32A</td> <td>18</td> <td>TN</td> <td>3536865C1</td> <td>3536866C1</td> </tr> <tr> <td>2</td> <td>R9A</td> <td>18</td> <td>GY</td> <td>3536865C1</td> <td>3536866C1</td> </tr> </tbody> </table>	CAV	CIR	GAUGE	COLOR	TERM	SEAL	1	R32A	18	TN	3536865C1	3536866C1	2	R9A	18	GY	3536865C1	3536866C1	<p style="text-align: center;"><b>RR AXLE TEMP SENDER (9812)</b> (LOCATED ON AXLE)</p>  <p>CONNECTOR - 3536864C1</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>CAV</th> <th>CIR</th> <th>GAUGE</th> <th>COLOR</th> <th>TERM</th> <th>SEAL</th> <th>NOTES</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>R32</td> <td>18</td> <td>TN</td> <td>3536865C1</td> <td>3536866C1</td> <td></td> </tr> <tr> <td>2</td> <td>R9</td> <td>18</td> <td>GY</td> <td>3536865C1</td> <td>3536866C1</td> <td>W/TANDEM</td> </tr> <tr> <td>2</td> <td>R9C</td> <td>18</td> <td>GY</td> <td>3536865C1</td> <td>3536866C1</td> <td>N/TANDEM</td> </tr> </tbody> </table>	CAV	CIR	GAUGE	COLOR	TERM	SEAL	NOTES	1	R32	18	TN	3536865C1	3536866C1		2	R9	18	GY	3536865C1	3536866C1	W/TANDEM	2	R9C	18	GY	3536865C1	3536866C1	N/TANDEM
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<p style="text-align: center;"><b>FR AXLE DIFF LOCK WARN LIGHT (9814)</b> (LOCATED ON AXLE)</p>  <p>CONNECTOR - 587567C91</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>CAV</th> <th>CIR</th> <th>GAUGE</th> <th>COLOR</th> <th>TERM</th> <th>SEAL</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>R49</td> <td>18</td> <td>GY</td> <td>0587578C1</td> <td>1652325C1</td> </tr> <tr> <td>B</td> <td>R49-G</td> <td>18</td> <td>WH</td> <td>0587578C1</td> <td>1652325C1</td> </tr> </tbody> </table>	CAV	CIR	GAUGE	COLOR	TERM	SEAL	A	R49	18	GY	0587578C1	1652325C1	B	R49-G	18	WH	0587578C1	1652325C1	<p style="text-align: center;"><b>RR AXLE DIFF LOCK WARN LIGHT (9815)</b> (LOCATED ON AXLE)</p>  <p>CONNECTOR - 587567C91</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>CAV</th> <th>CIR</th> <th>GAUGE</th> <th>COLOR</th> <th>TERM</th> <th>SEAL</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>R49A</td> <td>18</td> <td>GY</td> <td>0587578C1</td> <td>1652325C1</td> </tr> <tr> <td>B</td> <td>R49-GA</td> <td>18</td> <td>WH</td> <td>0587578C1</td> <td>1652325C1</td> </tr> </tbody> </table>	CAV	CIR	GAUGE	COLOR	TERM	SEAL	A	R49A	18	GY	0587578C1	1652325C1	B	R49-GA	18	WH	0587578C1	1652325C1										
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<p style="text-align: center;"><b>SUSPENSION TRANSDUCER (9830)</b></p>  <p>CONNECTOR - 1678137C1 SEAL - 1661872C1 PLUG - 2025431C1</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>CAV</th> <th>CIR</th> <th>GAUGE</th> <th>COLOR</th> <th>TERM</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>R9M</td> <td>18</td> <td>GY</td> <td>1651943C1</td> </tr> <tr> <td>B</td> <td>R6H</td> <td>18</td> <td>GY</td> <td>1651943C1</td> </tr> <tr> <td>C</td> <td>R61C</td> <td>18</td> <td>GY</td> <td>1651943C1</td> </tr> </tbody> </table>	CAV	CIR	GAUGE	COLOR	TERM	A	R9M	18	GY	1651943C1	B	R6H	18	GY	1651943C1	C	R61C	18	GY	1651943C1	<p style="text-align: center;"><b>AIR SUSPENSION SOLENOID (9850)</b> (LOCATED ON LEFT FRAME RAIL NEAR REAR AXLES)</p>  <p>CONNECTOR - 587568C91</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>CAV</th> <th>CIR</th> <th>GAUGE</th> <th>COLOR</th> <th>TERM</th> <th>SEAL</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>J61A</td> <td>16</td> <td>GY</td> <td>0587575C1</td> <td>1652325C1</td> </tr> <tr> <td>B</td> <td>J61-GA</td> <td>16</td> <td>WH</td> <td>0587575C1</td> <td>1652325C1</td> </tr> </tbody> </table>	CAV	CIR	GAUGE	COLOR	TERM	SEAL	A	J61A	16	GY	0587575C1	1652325C1	B	J61-GA	16	WH	0587575C1	1652325C1								
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<p style="text-align: center;"><b>LOAD INDICATOR (9860)</b></p>  <p>CONNECTOR - 1667740C1 SEAL - 1661872C1 LOCK - 1667771C1</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>CAV</th> <th>CIR</th> <th>GAUGE</th> <th>COLOR</th> <th>TERM</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>N9M</td> <td>18</td> <td>GY</td> <td>1667742C1</td> </tr> <tr> <td>B</td> <td>N6H</td> <td>18</td> <td>GY</td> <td>1667742C1</td> </tr> <tr> <td>C</td> <td>N61C</td> <td>18</td> <td>GY</td> <td>1667742C1</td> </tr> </tbody> </table>	CAV	CIR	GAUGE	COLOR	TERM	A	N9M	18	GY	1667742C1	B	N6H	18	GY	1667742C1	C	N61C	18	GY	1667742C1	<p style="text-align: center;"><b>LOAD INDICATOR (9865M)</b></p>  <p>CONNECTOR - 1667741C1 SEAL - 1661872C1 LOCK - 1667771C1</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>CAV</th> <th>CIR</th> <th>GAUGE</th> <th>COLOR</th> <th>TERM</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>N9M</td> <td>18</td> <td>GY</td> <td>1661875C1</td> </tr> <tr> <td>B</td> <td>N6H</td> <td>18</td> <td>GY</td> <td>1661875C2</td> </tr> <tr> <td>C</td> <td>N61C</td> <td>18</td> <td>GY</td> <td>1661875C3</td> </tr> </tbody> </table>	CAV	CIR	GAUGE	COLOR	TERM	A	N9M	18	GY	1661875C1	B	N6H	18	GY	1661875C2	C	N61C	18	GY	1661875C3						
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<p style="text-align: center;"><b>RIGHT SIDE AIR DRYER (9900)</b> (LOCATED ON AIR DRYER)</p>  <p>CONNECTOR - 1673790C1 LOCK - 1673791C1</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>CAV</th> <th>CIR</th> <th>GAUGE</th> <th>COLOR</th> <th>TERM</th> <th>SEAL</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>N39C</td> <td>16</td> <td>GY</td> <td>2033819C1</td> <td>1652325C1</td> </tr> <tr> <td>B</td> <td>N39-GC</td> <td>16</td> <td>WH</td> <td>2033819C1</td> <td>1652325C1</td> </tr> </tbody> </table>	CAV	CIR	GAUGE	COLOR	TERM	SEAL	A	N39C	16	GY	2033819C1	1652325C1	B	N39-GC	16	WH	2033819C1	1652325C1	<p style="text-align: center;"><b>LEFT SIDE AIR DRYER (9900A)</b> (LOCATED ON AIR DRYER)</p>  <p>CONNECTOR - 1673790C1 LOCK - 1673791C1</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>CAV</th> <th>CIR</th> <th>GAUGE</th> <th>COLOR</th> <th>TERM</th> <th>SEAL</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>N39B</td> <td>16</td> <td>GY</td> <td>2033819C1</td> <td>1652325C1</td> </tr> <tr> <td>B</td> <td>N39-GB</td> <td>16</td> <td>WH</td> <td>2033819C1</td> <td>1652325C1</td> </tr> </tbody> </table>	CAV	CIR	GAUGE	COLOR	TERM	SEAL	A	N39B	16	GY	2033819C1	1652325C1	B	N39-GB	16	WH	2033819C1	1652325C1										
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<p><b>LECTRASHIFT PTO/HOURLMETER (9913A)</b></p> <p>(DASH HARNESS) (LOCATED NEAR DASH TO ENGINE CONNECTION) (ENGINE/XMSN HARNESS)</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  <p>CONNECTOR - 1664531C1 LOCK - 1675053C1</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>CAV</th> <th>CIR</th> <th>GAUGE</th> <th>COLOR</th> <th>TERMINAL</th> <th>SEAL</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>J14LS</td> <td>12</td> <td>WH</td> <td>2033816C1</td> <td>0589391C1</td> </tr> <tr> <td>A</td> <td>J88B</td> <td>18</td> <td>LT.GN</td> <td>2033819C1</td> <td>3517771C1</td> </tr> </tbody> </table> </div> <div style="width: 45%;">  <p>CONNECTOR - 1669834C1 LOCK - 1675053C1</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>CAV</th> <th>CIR</th> <th>GAUGE</th> <th>COLOR</th> <th>TERMINAL</th> <th>SEAL</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>K12LSC</td> <td>12</td> <td>WH</td> <td>2033812C1</td> <td>0589390C1</td> </tr> <tr> <td>A</td> <td>K188B</td> <td>14</td> <td>LT.GN</td> <td>2033812C1</td> <td>0589391C1</td> </tr> </tbody> </table> </div> </div>				CAV	CIR	GAUGE	COLOR	TERMINAL	SEAL	A	J14LS	12	WH	2033816C1	0589391C1	A	J88B	18	LT.GN	2033819C1	3517771C1	CAV	CIR	GAUGE	COLOR	TERMINAL	SEAL	A	K12LSC	12	WH	2033812C1	0589390C1	A	K188B	14	LT.GN	2033812C1	0589391C1								
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CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	RELEASE NO.	DATE	PART NO.	SHEET																																					
		ADDED 9870-9913A	-	50157D	U00JWCA	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS	50157D	14FEB05	AE08-52376	66																																					

**Figure 272 Connector Composites (9870), (9871), (9811), (9812), (9814), (9815), (9830), (9850), (9860), (9865M), (9900), (9900A), (9913A)**

12.80. CONNECTOR COMPOSITES (9913B), (9914), (9994), (9999), P. 67

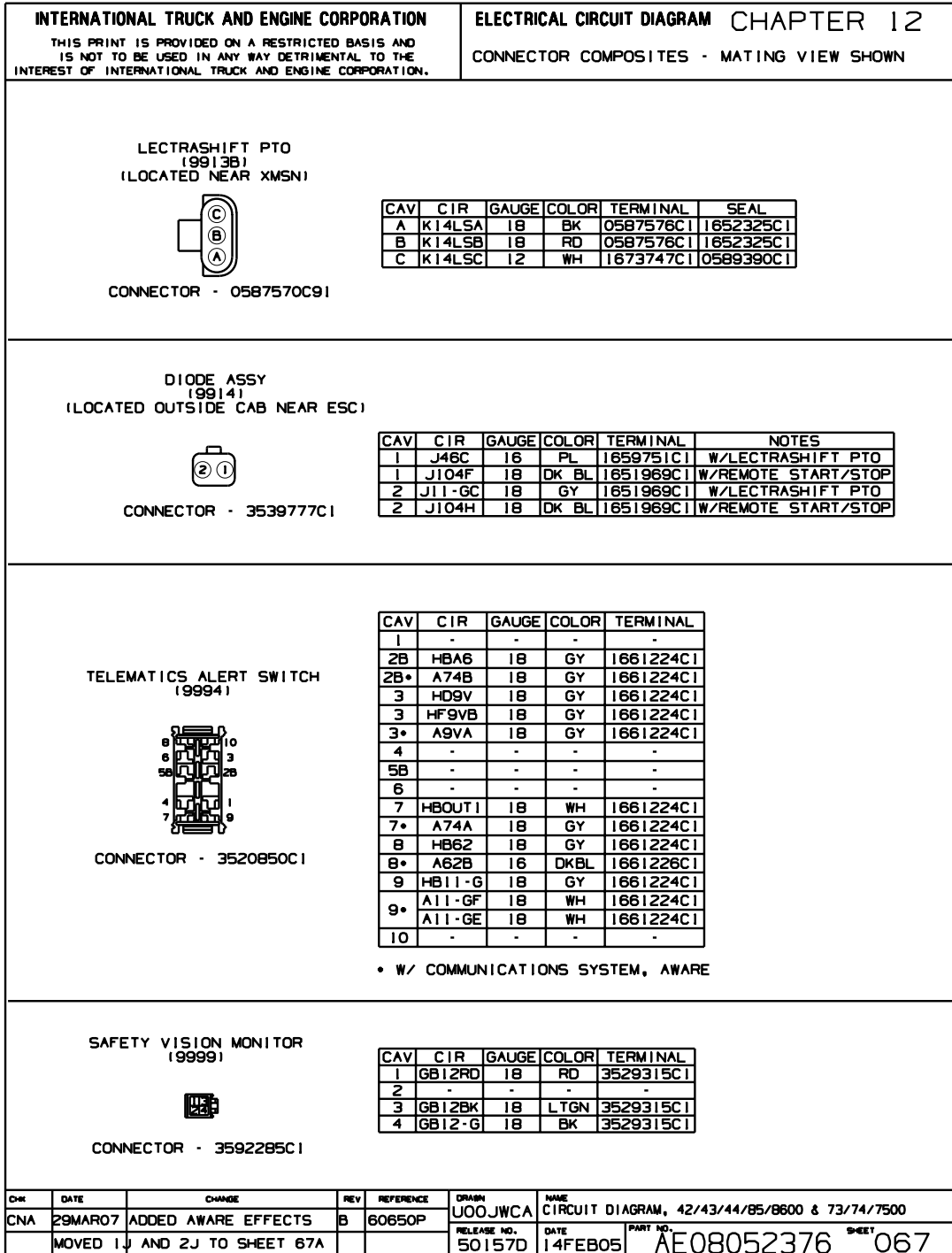


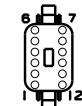
Figure 273 Connector Composites (9913B), (9914), (9994), (9999)

12.81. CONNECTOR COMPOSITES (1J), (2J), P. 67A

<p><b>INTERNATIONAL TRUCK AND ENGINE CORPORATION</b></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><b>ELECTRICAL CIRCUIT DIAGRAM</b>    <b>CHAPTER 12</b></p> <p>CONNECTOR COMPOSITES - MATING VIEW SHOWN</p>
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**TELEMATICS 1  
(1J)**



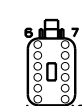
CONNECTOR 3601924C1  
CONN LOCK 3601925C1

CAV	CIR	GAUGE	COLOR	TERMINAL
1	HA14A	16	RD	1680205C1
1*	A14C	16	RD	1680205C1
2	HC14B	16	RD	1680205C1
2*	A14F	16	RD	1680205C1
3	HA13A	16	PK	1680205C1
3*	A13A	16	PK	1680205C1
4	HC6VDC	18	GY	1680205C1
4*	A74VDC	18	GY	1680205C1
5	HBOUT1	18	WH	1680205C1
5*	A74A	18	GY	1680205C1
6	HCOUT2	18	WH	1680205C1
6*	A74H	16	VT	1680205C1
7	PLUG	-	-	0453133C1
8	PLUG	-	-	0453133C1
9	HASH(+)	18	YL	1680205C1
9*	A9BYS(+)	18	YL	1680205C1
10	HASH(-)	18	GN	1680205C1
10*	A9BNS(-)	18	GN	1680205C1
11	HD9V	18	GY	1680205C1
11	HE9V	18	GY	1680205C1
11	HF9V	18	GY	1680205C1
11*	A9V	18	GY	1680205C1
12	HA11-G	18	GY	1680205C1
12*	A11-GA	16	WH	1680205C1

• W/ COMMUNICATIONS SYSTEM, AWARE

**TELEMATICS 2  
(2J)**



CONNECTOR 3601923C1  
CONN LOCK 3601925C1

CAV	CIR	GAUGE	COLOR	TERMINAL
1	HA3H(+)	18	DKBL	1680205C1
1*	A9BB2(+)	18	BK	1680205C1
2	HA3H(-)	18	GY	1680205C1
2*	A9BB2(-)	18	BK	1680205C1
3	HCPPU	18	GY	1680205C1
3*	A74F	18	GY	1680205C1
4	HCA2	18	GY	1680205C1
4*	A74A2	18	GY	1680205C1
5	HCA4	18	GY	1680205C1
5*	A74D	18	GY	1680205C1
6	HBA6	18	GY	1680205C1
6*	A74B	18	GY	1680205C1
7	HCA5	18	GY	1680205C1
7*	A74E	18	GY	1680205C1
8	HCA3	18	GY	1680205C1
8*	A74A3	16	GY	1680205C1
9	HCA1	18	GY	1680205C1
9*	A36A	18	TN	1680205C1
10	HC11-G	18	GY	1680205C1
10*	A11-GD	18	GY	1680205C1
11	PLUG	-	-	0453133C1
12	PLUG	-	-	0453133C1


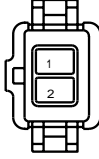


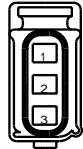

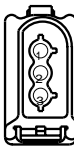

• W/ COMMUNICATIONS SYSTEM, AWARE

CHR	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
CNA	29MAR07	INITIAL RELEASE	A	60650P	MJV0088	CIRCUIT DIAGRAM, 42/43/44/85/8600 & 73/74/7500
					RELEASE NO.	DATE
					60650P	12MAR07
						PART NO.
						AE08052376
						SHEET
						67A

Figure 274 Connector Composites (1J), (2J)

**12.82. CONNECTOR COMPOSITES (9988), (9989), (9990), (9991), (9992), (9993), (9995), (9996), P. 68**

INTERNATIONAL TRUCK AND ENGINE CORPORATION				ELECTRICAL CIRCUIT DIAGRAM CHAPTER 12																																					
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.				CONNECTOR COMPOSITES - MATING VIEW SHOWN																																					
<p>FLARE LAMP (LEFT AMBER) (9988)</p>  <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th>CAV</th> <th>CIR</th> <th>GAUGE</th> <th>COLOR</th> <th>TERMINAL</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>R10-G</td> <td>18</td> <td>WH</td> <td>*XL3T-14474-EA</td> </tr> <tr> <td>2</td> <td>R68</td> <td>18</td> <td>BN</td> <td>*XL3T-14474-EA</td> </tr> </tbody> </table> <p style="text-align: center; font-size: x-small;">*F6AB-14A464-GA</p>	CAV	CIR	GAUGE	COLOR	TERMINAL	1	R10-G	18	WH	*XL3T-14474-EA	2	R68	18	BN	*XL3T-14474-EA	<p>FLARE LAMP RIGHT AMBER (9989)</p>  <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th>CAV</th> <th>CIR</th> <th>GAUGE</th> <th>COLOR</th> <th>TERMINAL</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>R10-G</td> <td>18</td> <td>WH</td> <td>*XL3T-14474-AEA</td> </tr> <tr> <td>2</td> <td>R68</td> <td>18</td> <td>BN</td> <td>*XL3T-14474-AEA</td> </tr> </tbody> </table> <p style="text-align: center; font-size: x-small;">*F6AB-14A464-GA</p>	CAV	CIR	GAUGE	COLOR	TERMINAL	1	R10-G	18	WH	*XL3T-14474-AEA	2	R68	18	BN	*XL3T-14474-AEA										
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<p>FLARE LAMP (LEFT RED) (9990)</p>  <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th>CAV</th> <th>CIR</th> <th>GAUGE</th> <th>COLOR</th> <th>TERMINAL</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>R10-G</td> <td>18</td> <td>WH</td> <td>*XL3T-14474-EAE</td> </tr> <tr> <td>2</td> <td>R68</td> <td>18</td> <td>BN</td> <td>*XL3T-14474-EAE</td> </tr> </tbody> </table> <p style="text-align: center; font-size: x-small;">*F6AB-14A464-GA</p>	CAV	CIR	GAUGE	COLOR	TERMINAL	1	R10-G	18	WH	*XL3T-14474-EAE	2	R68	18	BN	*XL3T-14474-EAE	<p>FLARE LAMP (RIGHT RED) (9991)</p>  <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th>CAV</th> <th>CIR</th> <th>GAUGE</th> <th>COLOR</th> <th>TERMINAL</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>R10-G</td> <td>18</td> <td>WH</td> <td>*XL3T-14474-EAE</td> </tr> <tr> <td>2</td> <td>R68</td> <td>18</td> <td>BN</td> <td>*XL3T-14474-EAE</td> </tr> </tbody> </table> <p style="text-align: center; font-size: x-small;">*F6AB-14A464-GA</p>	CAV	CIR	GAUGE	COLOR	TERMINAL	1	R10-G	18	WH	*XL3T-14474-EAE	2	R68	18	BN	*XL3T-14474-EAE										
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<p>LEFT TAIL TURN / STOP LAMP (9992)</p>  <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th>CAV</th> <th>CIR</th> <th>GAUGE</th> <th>COLOR</th> <th>TERMINAL</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>R10-G</td> <td>18</td> <td>WH</td> <td>*97BG-14474-AEA</td> </tr> <tr> <td>2</td> <td>R68</td> <td>18</td> <td>BN</td> <td>-</td> </tr> <tr> <td>3</td> <td>R56</td> <td>14</td> <td>OR</td> <td>*97BG-14474-AEA</td> </tr> </tbody> </table> <p style="text-align: center; font-size: x-small;">*ZFJ-00703-UA</p>	CAV	CIR	GAUGE	COLOR	TERMINAL	1	R10-G	18	WH	*97BG-14474-AEA	2	R68	18	BN	-	3	R56	14	OR	*97BG-14474-AEA	<p>RIGHT TAIL TURN / STOP LAMP (9993)</p>  <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th>CAV</th> <th>CIR</th> <th>GAUGE</th> <th>COLOR</th> <th>TERMINAL</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>R10-G</td> <td>18</td> <td>WH</td> <td>*97BG-14474-AEA</td> </tr> <tr> <td>2</td> <td>R68</td> <td>18</td> <td>BN</td> <td>-</td> </tr> <tr> <td>3</td> <td>R57</td> <td>14</td> <td>OR</td> <td>*97BG-14474-AEA</td> </tr> </tbody> </table> <p style="text-align: center; font-size: x-small;">*ZFJ-00703-UA</p>	CAV	CIR	GAUGE	COLOR	TERMINAL	1	R10-G	18	WH	*97BG-14474-AEA	2	R68	18	BN	-	3	R57	14	OR	*97BG-14474-AEA
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<p>BACKUP LAMP (9995)</p>  <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th>CAV</th> <th>CIR</th> <th>GAUGE</th> <th>COLOR</th> <th>TERMINAL</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>R10-G</td> <td>18</td> <td>WH</td> <td>*97BG-14474-AEA</td> </tr> <tr> <td>2</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>3</td> <td>R71</td> <td>18</td> <td>OR</td> <td>*97BG-14474-AEA</td> </tr> </tbody> </table> <p style="text-align: center; font-size: x-small;">*ZFJ-00702-UA</p>	CAV	CIR	GAUGE	COLOR	TERMINAL	1	R10-G	18	WH	*97BG-14474-AEA	2	-	-	-	-	3	R71	18	OR	*97BG-14474-AEA	<p>BACKUP LAMP (9996)</p>  <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th>CAV</th> <th>CIR</th> <th>GAUGE</th> <th>COLOR</th> <th>TERMINAL</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>R10-G</td> <td>18</td> <td>WH</td> <td>*97BG-14474-AEA</td> </tr> <tr> <td>2</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>3</td> <td>R71</td> <td>18</td> <td>OR</td> <td>*97BG-14474-AEA</td> </tr> </tbody> </table> <p style="text-align: center; font-size: x-small;">*ZFJ-00702-UA</p>	CAV	CIR	GAUGE	COLOR	TERMINAL	1	R10-G	18	WH	*97BG-14474-AEA	2	-	-	-	-	3	R71	18	OR	*97BG-14474-AEA
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NOTE - \* INDICATES PARTS TO BE GIVEN BY SUPPLIER

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
					UQQAXPC	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS
					RELEASE NO.	DATE
					59918L	22DEC05
						PART NO.
						AF08-52376
						SHEET
						68

**Figure 275 Connector Composites (9988), (9989), (9990), (9991), (9992), (9993), (9995), (9996)**

12.83. CONNECTOR COMPOSITES (1936), (1937), (1938), (1940), P. 69

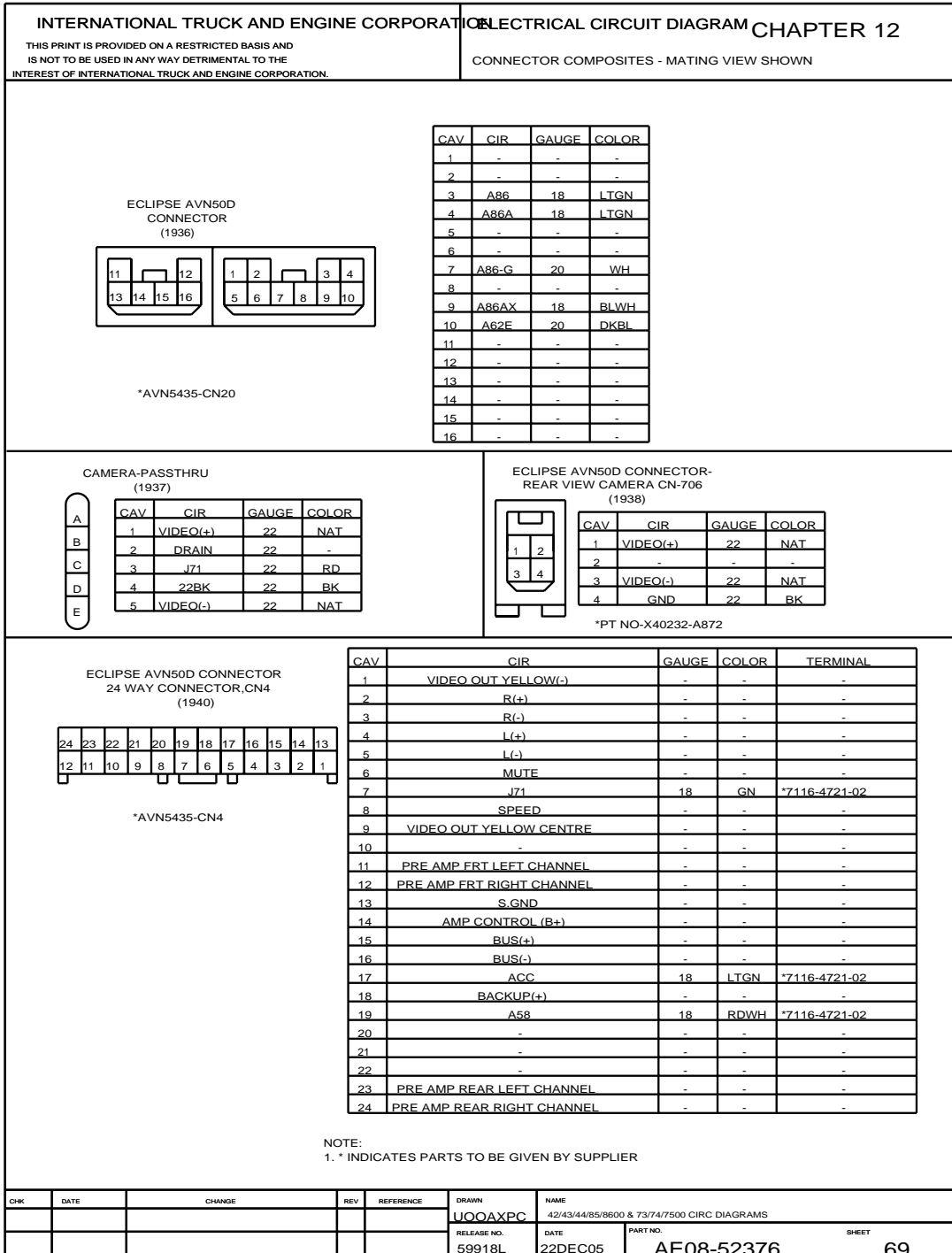


Figure 276 Connector Composites (1936), (1937), (1938), (1940)

12.84. CONNECTOR COMPOSITES (1943), (1944), (1949), (1997), P. 70

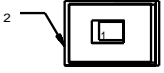
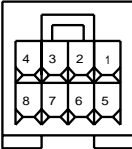
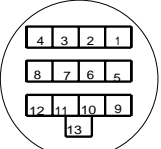

<p style="text-align: center;">INTERNATIONAL TRUCK AND ENGINE CORPORATION</p> <p style="font-size: small;">THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF INTERNATIONAL TRUCK AND ENGINE CORPORATION.</p>	<p style="text-align: center;">ELECTRICAL CIRCUIT DIAGRAM CHAPTER 12</p> <p style="text-align: center;">CONNECTOR COMPOSITES - MATING VIEW SHOWN</p>																																																																						
<p style="text-align: center;">ECLIPSE AVN50D CONNECTOR GPS ANTENNA (1943)</p> <div style="display: flex; align-items: center; justify-content: center;">  <table border="1" style="margin-left: 20px; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>CAV</th> <th>CIR</th> <th>GAUGE</th> <th>COLOR</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SIGNAL</td> <td>22</td> <td>NONE</td> </tr> <tr> <td>2</td> <td>GROUND</td> <td>22</td> <td>NONE</td> </tr> </tbody> </table> </div> <p style="text-align: center; margin-top: 10px;">*AVN5435-GPS</p>	CAV	CIR	GAUGE	COLOR	1	SIGNAL	22	NONE	2	GROUND	22	NONE																																																											
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<p style="text-align: center;">ECLIPSE AVN50D CONNECTOR 3W-13WAY DIN (1949)</p> <div style="display: flex; align-items: center; justify-content: center;">  <table border="1" style="margin-left: 20px; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>CAV</th> <th>CIR</th> <th>GAUGE</th> <th>COLOR</th> <th>TERMINAL</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N.C.</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>2</td> <td>BACKUP(+)</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>3</td> <td>GND</td> <td>18</td> <td>WH</td> <td>*7116-4721-02</td> </tr> <tr> <td>4</td> <td>ACC</td> <td>18</td> <td>LTGN</td> <td>*7116-4721-02</td> </tr> <tr> <td>5</td> <td>R(+)</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>6</td> <td>L(-)</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>7</td> <td>S.GND</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>8</td> <td>N.C.</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>9</td> <td>L(+)</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>10</td> <td>BUS(+)</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>11</td> <td>MUTE</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>12</td> <td>BUS(-)</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>13</td> <td>R(-)</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table> </div> <p style="text-align: center; margin-top: 10px;">*AVN5435-3W-13WAY DIN</p>	CAV	CIR	GAUGE	COLOR	TERMINAL	1	N.C.	-	-	-	2	BACKUP(+)	-	-	-	3	GND	18	WH	*7116-4721-02	4	ACC	18	LTGN	*7116-4721-02	5	R(+)	-	-	-	6	L(-)	-	-	-	7	S.GND	-	-	-	8	N.C.	-	-	-	9	L(+)	-	-	-	10	BUS(+)	-	-	-	11	MUTE	-	-	-	12	BUS(-)	-	-	-	13	R(-)	-	-	-	
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					AE08-52376	70																																																																	

Figure 277 Connector Composites (1943), (1944), (1949), (1997)

12.85. CONNECTOR COMPOSITE (9998), P. 71

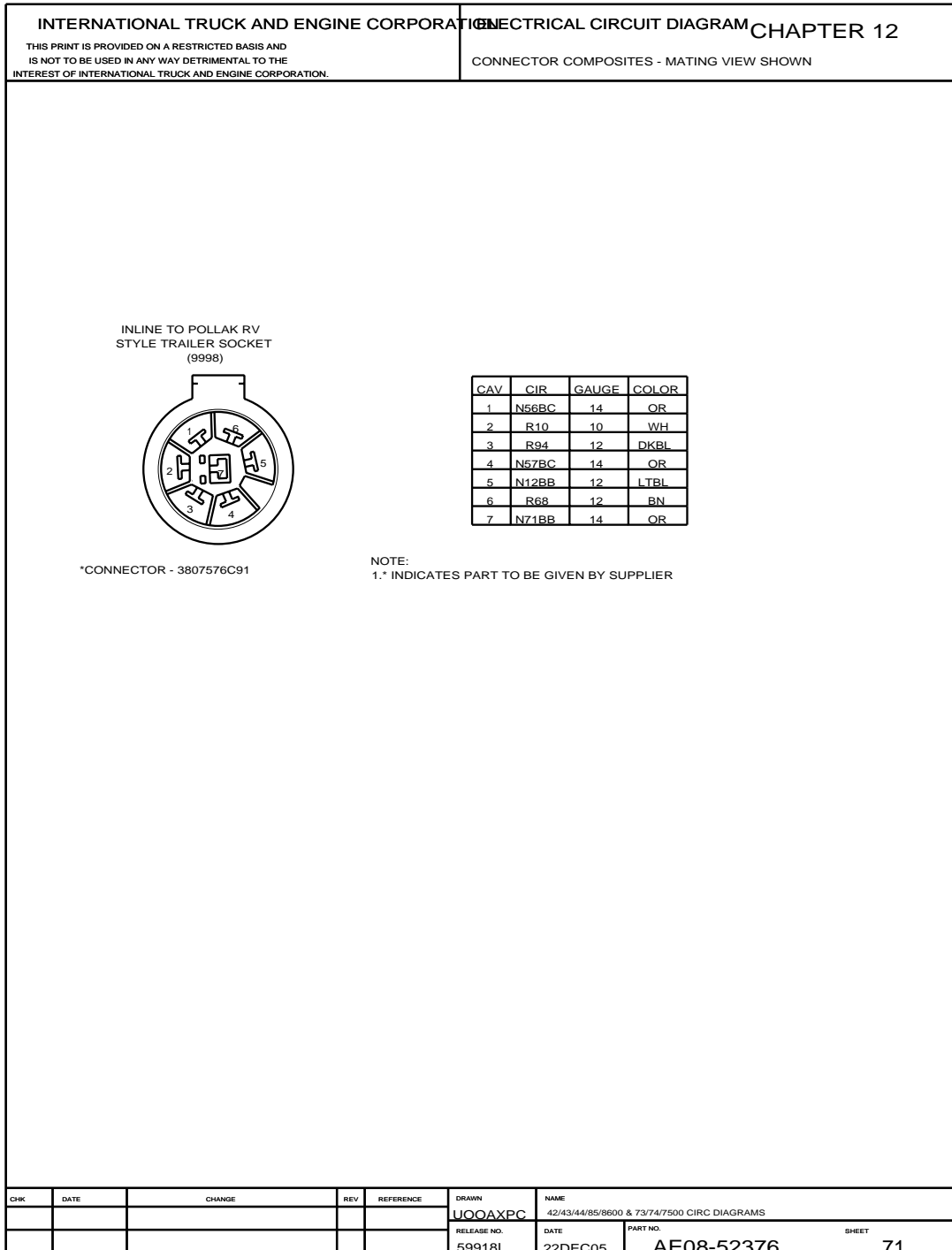


Figure 278 Connector Composite (9998)



12.86. CONNECTOR COMPOSITES (C1), (C15), (C40), (C50), (C60), (C70), (C80), P. 72

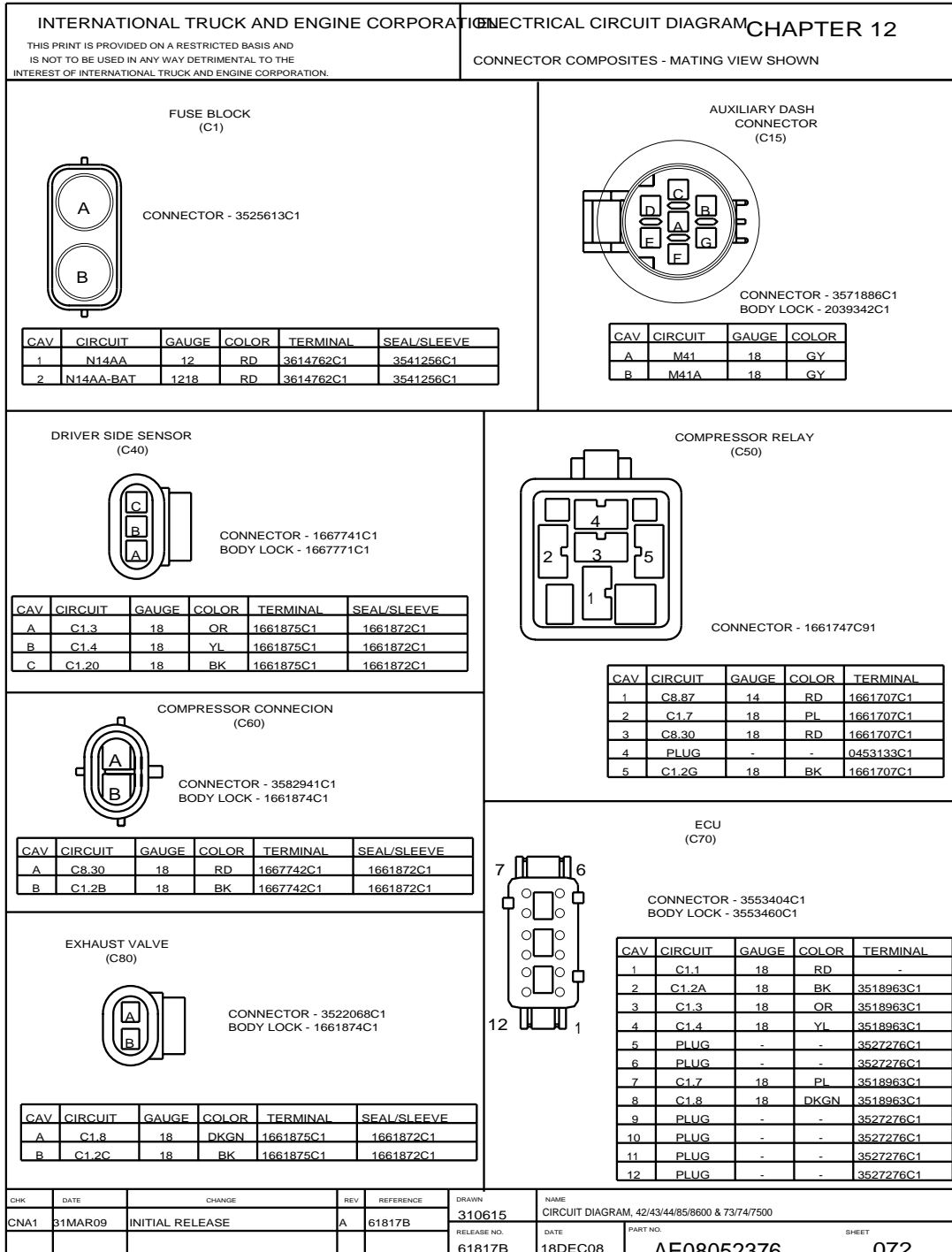


Figure 279 Connector Composites (C1), (C15), (C40), (C50), (C60), (C70), (C80)