

# **SERVICE MANUAL**

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## **SERVICE MANUAL SECTION**

**CF 500, CF 600 Models Built February 1, 2006 to August 31, 2007 —  
ELECTRICAL CIRCUIT DIAGRAMS**

**Model: CF 500**

**Start Date: 02/01/2006 End Date: 08/31/2007**

**Model: CF 600**

**Start Date: 02/01/2006 End Date: 08/31/2007**

**S08317**

**04/07/2006**



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## Table of Contents

1. INSTRUCTIONS AND CHARTS (CHAPTER 1).....	1
1.1. CIRCUIT DIAGRAM INSTRUCTIONS, P. 1.....	1
1.2. CIRCUIT DIAGRAM INSTRUCTIONS, P. 2.....	2
1.3. CIRCUIT DIAGRAM INSTRUCTIONS, P. 3.....	3
1.4. RELAY FUNCTIONS AND WIRING GUIDE, P. 4.....	4
1.5. INTERNATIONAL V6 ENGINE CONTROLLER PIN NUMBER IDENTIFICATION, P. 5.....	5
1.6. POWER DISTRIBUTION BOX, P. 6.....	6
1.7. POWER DISTRIBUTION BOX, P. 7.....	7
1.8. IN-CAB RELAY BOX, P. 8.....	8
1.9. LAMP BULB CHART, P. 9.....	9
2. 12 VOLT POWER DISTRIBUTION CIRCUIT DIAGRAMS (CHAPTER 2).....	10
2.1. BATTERY FEEDS, P. 1.....	10
2.2. BATTERY FEEDS, P. 2.....	11
2.3. BATTERY FEEDS, P. 3.....	12
2.4. KEY SWITCH, P. 4.....	13
2.5. IGNITION FEEDS (RUN), P. 5.....	14
2.6. IGNITION FEEDS (START), P. 6.....	15
2.7. IGNITION FEEDS (RUN-START), P. 7.....	16
2.8. IGNITION FEEDS (RUN-ACCESSORY), P. 8.....	17
2.9. GROUNDS (MAIN CHASSIS), P. 9.....	18
2.10. GROUNDS (MAIN CHASSIS), P. 10.....	19
2.11. GROUNDS (REAR CHASSIS), P. 11.....	20
2.12. GROUNDS (IP), P. 12.....	21
2.13. GROUNDS (IP), P. 13.....	22
2.14. CAB GROUNDS (ROOF, FLOOR), P. 14.....	23
2.15. J1708 DATA LINK, P. 15.....	24
2.16. J1939 DATA LINK, P. 16.....	25
2.17. J2284 DATA LINK, P. 17.....	26
2.18. DIAGNOSTIC CONNECTORS, P. 18.....	27
3. CAB ACCESSORIES (CHAPTER 3).....	28
3.1. CIGAR LIGHTER, P. 1.....	28
3.2. POWER WINDOWS, P. 2.....	29
3.3. POWER DOORS, P. 3.....	30
3.4. HORN, P. 4.....	31
3.5. RADIO, P. 5.....	32
3.6. WINDSHIELD WIPER AND WASHER PUMP, P. 6.....	33
3.7. DOOR AJAR SWITCH AND DOME LIGHT, P. 7.....	34
4. 12V CHARGING AND CRANKING SYSTEM (CHAPTER 4).....	35
4.1. CHARGING AND CRANKING — INTERNATIONAL V6 ENGINE, P. 1.....	35
5. FANS AND ENGINE ACCESSORIES (CHAPTER 5).....	36
5.1. HFCM MODULE — INTERNATIONAL V6 ENGINE, P. 1.....	36
5.2. FUEL TANKS — DUAL TANK, P. 2.....	37
5.3. FUEL TANKS — LEFT AND AFT TANK, P. 3.....	38

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<b>6. ELECTRONIC ENGINES (CHAPTER 6)</b> .....	<b>39</b>
6.1. INTERNATIONAL V6 POWER AND GROUND SYSTEM, P. 1.....	39
6.2. INTERNATIONAL V6 CRUISE CONTROL, P. 2.....	40
6.3. INTERNATIONAL V6 ACCELERATOR PEDAL, P. 3.....	41
<b>7. CLUSTERS AND WARNING LIGHTS (CHAPTER 7)</b> .....	<b>42</b>
7.1. CLUSTER CONNECTOR A, P. 1.....	42
7.2. CLUSTER CONNECTOR A, P. 2.....	43
7.3. CLUSTER CONNECTOR B, P. 3.....	44
7.4. CLUSTER CONNECTOR B, P. 4.....	45
<b>8. LIGHTS (CHAPTER 8)</b> .....	<b>46</b>
8.1. MAIN LIGHT SWITCH, HAZARD SWITCH, P. 1.....	46
8.2. MARKER, FRONT PARK AND TURN LIGHTS, P. 2.....	47
8.3. REAR TAIL, TURN, STOP AND BACKUP LIGHTS, P. 3.....	48
8.4. FOG LIGHTS, P. 4.....	49
8.5. HEADLIGHTS, P. 5.....	50
8.6. PANEL LIGHTS, P. 6.....	51
<b>9. CHASSIS ACCESSORIES (CHAPTER 9)</b> .....	<b>52</b>
9.1. ANTILOCK BRAKE SYSTEM (ABS), P. 1.....	52
9.2. BODY BUILDER CUSTOMER ACCESS CIRCUITS (BOC), P. 2.....	53
9.3. BODY BUILDER LIGHTING CIRCUITS (BOC), P. 3.....	54
9.4. BODY BUILDER (EOF), P. 4.....	55
9.5. BRAKE SYSTEMS: FLUID, PRESSURE AND PEDAL SWITCH, P. 5.....	56
9.6. BRAKE SYSTEMS: ELECTRIC TRAILER BRAKES, P. 6.....	57
<b>10. TRANSMISSION (CHAPTER 10)</b> .....	<b>58</b>
10.1. TRANSMISSION CONTROL MODULE CONNECTOR, P. 1.....	58
10.2. TCM TO TRANSMISSION BULKHEAD CONNECTOR, P. 2.....	59
<b>11. CLIMATE CONTROL (CHAPTER 11)</b> .....	<b>60</b>
11.1. HVAC SYSTEM, P. 1.....	60
11.2. A/C CLUTCH, P. 2.....	61
11.3. PUSHER FAN, P. 3.....	62
<b>12. CONNECTOR COMPOSITES (CHAPTER 12)</b> .....	<b>63</b>
12.1. CONNECTOR COMPOSITES (1), (2), (3), (4), (5), (101), (102), (103), (104), (105), (106), P. 1.....	63
12.2. CONNECTOR COMPOSITES (1G), (201), (202A), (202C), (203), (204), P. 2.....	64
12.3. CONNECTOR COMPOSITES (205A), (205B), (206), (207), (208), (209), P. 3.....	65
12.4. CONNECTOR COMPOSITES (211), (212), (213), (214), (215), (217A), (217B), P. 4.....	66
12.5. CONNECTOR COMPOSITES (220), (222), (223), (225), (226), (227), (228), (229), (233), (234), P. 5.....	67
12.6. CONNECTOR COMPOSITES (235), (236B), P. 6.....	68
12.7. CONNECTOR COMPOSITES (237), (238), (239), (240), (241), (242A), (242B), P. 7.....	69
12.8. CONNECTOR COMPOSITES (2G), (3G), (243), (244), (245), (246), (247), (248),(249), (300G), (301G), (302G), P. 8.....	70
12.9. CONNECTOR COMPOSITES (301), (301A), (301B), (301D), (304D), (304E), P. 9.....	71
12.10. CONNECTOR COMPOSITE (306), P. 10.....	72
12.11. CONNECTOR COMPOSITES (308), (309), (310), (313), P. 11.....	73
12.12. CONNECTOR COMPOSITES (315), (316), (317), (318), (401), (402), P. 12.....	74
12.13. CONNECTOR COMPOSITES (403), (404), (410), (411), (412), (413), (4G), (500), P. 13.....	75

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12.14. CONNECTOR COMPOSITES (502), (503), (504), (506), (507), (508), (509), (510), P. 14.....	76
12.15. GEOMETRY REMOVED, P. 15.....	77
12.16. CONNECTOR COMPOSITES (700), (702A), P. 16.....	78
12.17. CONNECTOR COMPOSITES (701), (702B), P. 17.....	79
12.18. CONNECTOR COMPOSITES (702D), P. 18.....	80
12.19. CONNECTOR COMPOSITES (703), (704), P. 19.....	81
12.20. CONNECTOR COMPOSITES (705), P. 20.....	82
12.21. CONNECTOR COMPOSITES (705), P. 21.....	83
12.22. CONNECTOR COMPOSITES (705), (706), (707), P. 22.....	84



# 1. INSTRUCTIONS AND CHARTS (CHAPTER 1)

## 1.1. CIRCUIT DIAGRAM INSTRUCTIONS, P. 1

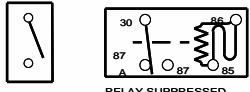
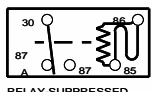
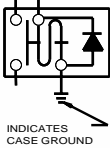
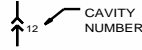

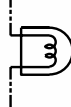
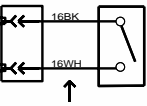



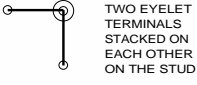
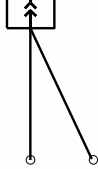
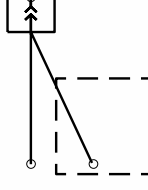
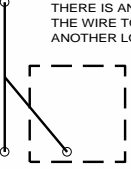
INTERNATIONAL TRUCK AND ENGINE CORPORATION		ELECTRICAL CIRCUIT DIAGRAM		CHAPTER 1				
THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF INTERNATIONAL TRUCK AND ENGINE CORPORATION.		CIRCUIT DIAGRAM INSTRUCTIONS						
<p>SWITCH AND RELAY POSITIONS AS SHOWN ON CIRCUIT DIAGRAMS INDICATE NORMAL POSITION WITH IGNITION OFF UNLESS OTHERWISE NOTED.</p> <p>SWITCH-MANUAL/MECHANICAL</p>  <p>RELAY-SUPPRESSED</p>  <p>INDICATES CASE GROUND</p> 		<p>DESCRIPTION OF CONNECTOR FUNCTION</p> <p>PASS THRU-FWD CHASSIS (132)</p>  <p>CAVITY NUMBER</p> <p>REFERENCE DESIGNATOR</p> <p>PASS THRU-FWD CHASSIS (132)</p>  <p>CONNECTOR MAY HAVE MULTIPLE CAVITIES DISPLAYED. TO CHECK ALL CAVITIES OR IF A CAVITY HAS A DUAL USE, THE REFERENCE DESIGNATOR WILL BE THE KEY TO FINDING THE CONNECTOR IN THE CONNECTOR COMPOSITE LOCATED IN CHAPTER 12</p>						
<p>PHANTOM LINES INDICATE PRINTED CIRCUITS OR BUSSED CIRCUITS. THESE CIRCUITS EXIST IN THE INSTRUMENT CLUSTER.</p> <p>PRINTED CIRCUITS IN CLUSTER</p> 		<p>16BK</p>  <p>PIGTAIL</p> <p>16WH</p> <p>A SPLICE THAT IS EXTERNAL OR LOCATED IN THE HARNESS</p>  <p>A SPLICE THAT IS INTERNAL TO COMPONENTS AND FUSE BLOCKS</p>  <p>AT EYELET TERMINAL THAT HAS TWO WIRES CRIMPED IN IT</p>  <p>TWO EYELET TERMINALS STACKED ON EACH OTHER ON THE STUD</p> 						
<p>CIRCUIT NUMBER</p> <p>↓</p> <p>57 ← BASE COLOR</p> <p>↑</p> <p>18 BK ← WIRE GAUGE</p> <p>YOU WILL SEE TWO TYPES OF WIRE IDENTIFICATION (ONE WITHOUT A STRIPE AND ONE WITH A STRIPE)</p> <p>CIRCUIT NUMBER</p> <p>↓</p> <p>57 ← STRIPE COLOR</p> <p>↑</p> <p>18 BK-WH ← WIRE GAUGE</p> <p>↑</p> <p>BASE COLOR</p>		<p>A DOUBLE CRIMPED TERMINAL</p>  <p>A CONNECTION WHICH RUNS DIFFERENTLY DEPENDING ON THE OPTION</p>  <p>ANOTHER SITUATION WHERE THERE IS AN OPTION CAUSING THE WIRE TO BE ROUTED TO ANOTHER LOCATION</p>  <p>THE OPTIONS CAUSING THE VARIATION ARE DESCRIBED IN THE DASHED BOX</p>						
CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME		
-	-	-	-	-	U00JHP	LCF CIRCUIT DIAGRAMS		
					RELEASE NO.	DATE	PART NO.	SHEET
					59053V	05FEB04	AF08-55410	01

Figure 1 Circuit Diagram Instructions

1.2. CIRCUIT DIAGRAM INSTRUCTIONS, P. 2

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 1 CIRCUIT DIAGRAM INSTRUCTIONS																																										
<p><b>COLOR ABBREVIATIONS:</b></p> <table style="width: 100%; border: none;"> <tr> <td>BK BLACK</td> <td>OR ORANGE</td> <td rowspan="8" style="vertical-align: top; padding-left: 20px;">                     NOTE: WHENEVER A WIRE IS LABELED WITH TWO COLORS, THE FIRST COLOR LISTED IS THE BASIC COLOR OF THE WIRE AND THE SECOND COLOR LISTED IS THE STRIPE MARKING OF THE WIRE                 </td> </tr> <tr> <td>BN BROWN</td> <td>PK PINK</td> </tr> <tr> <td>DB DARK BLUE</td> <td>VT PURPLE</td> </tr> <tr> <td>DG DARK GREEN</td> <td>RD RED</td> </tr> <tr> <td>GY GRAY</td> <td>TN TAN</td> </tr> <tr> <td>LB LIGHT BLUE</td> <td>WT WHITE</td> </tr> <tr> <td>LG LIGHT GREEN</td> <td>YL YELLOW</td> </tr> </table> <p><b>NOUN ABBREVIATIONS:</b></p> <table style="width: 100%; border: none;"> <tr> <td>A ACCESSORY</td> <td>G GROUND</td> </tr> <tr> <td>ACC ACCESSORY</td> <td>GND GROUND</td> </tr> <tr> <td>AC AIR CONDITIONER</td> <td>I IGNITION</td> </tr> <tr> <td>AUX AUXILIARY</td> <td>IGN IGNITION</td> </tr> <tr> <td>AWG AMERICAN WIRE GAUGE</td> <td>IND INDICATOR</td> </tr> <tr> <td>B BATTERY</td> <td>L LEFT</td> </tr> <tr> <td>BAT BATTERY</td> <td>LT LIGHT</td> </tr> <tr> <td>CONN CONNECTION/CONNECTOR</td> <td>W-O WITHOUT</td> </tr> <tr> <td>DRL DAYTIME RUNNING LIGHTS</td> <td>OPT OPTIONAL</td> </tr> <tr> <td>ENG ENGINE</td> <td>RT RIGHT</td> </tr> <tr> <td>FWD FORWARD</td> <td>S START OR SENDER</td> </tr> <tr> <td>GA GAUGE</td> <td>THERMO THERMOSTAT</td> </tr> <tr> <td></td> <td>W WITH</td> </tr> </table>				BK BLACK	OR ORANGE	NOTE: WHENEVER A WIRE IS LABELED WITH TWO COLORS, THE FIRST COLOR LISTED IS THE BASIC COLOR OF THE WIRE AND THE SECOND COLOR LISTED IS THE STRIPE MARKING OF THE WIRE	BN BROWN	PK PINK	DB DARK BLUE	VT PURPLE	DG DARK GREEN	RD RED	GY GRAY	TN TAN	LB LIGHT BLUE	WT WHITE	LG LIGHT GREEN	YL YELLOW	A ACCESSORY	G GROUND	ACC ACCESSORY	GND GROUND	AC AIR CONDITIONER	I IGNITION	AUX AUXILIARY	IGN IGNITION	AWG AMERICAN WIRE GAUGE	IND INDICATOR	B BATTERY	L LEFT	BAT BATTERY	LT LIGHT	CONN CONNECTION/CONNECTOR	W-O WITHOUT	DRL DAYTIME RUNNING LIGHTS	OPT OPTIONAL	ENG ENGINE	RT RIGHT	FWD FORWARD	S START OR SENDER	GA GAUGE	THERMO THERMOSTAT		W WITH
BK BLACK	OR ORANGE	NOTE: WHENEVER A WIRE IS LABELED WITH TWO COLORS, THE FIRST COLOR LISTED IS THE BASIC COLOR OF THE WIRE AND THE SECOND COLOR LISTED IS THE STRIPE MARKING OF THE WIRE																																										
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DG DARK GREEN	RD RED																																											
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ENG ENGINE	RT RIGHT																																											
FWD FORWARD	S START OR SENDER																																											
GA GAUGE	THERMO THERMOSTAT																																											
	W WITH																																											
<small>CHK</small>	<small>DATE</small>	<small>CHANGE</small>	<small>REV</small>	<small>REFERENCE</small>	<small>DRAWN</small>	<small>NAME</small>																																						
-	-	-	-	-	U00JAH	LCF CIRCUIT DIAGRAMS																																						
					<small>RELEASE NO.</small>	<small>DATE</small>																																						
					59053V	05FEB04																																						
						<small>PART NO.</small>																																						
						AE08-55410																																						
						<small>SHEET</small>																																						
						02																																						

Figure 2 Circuit Diagram Instructions



1.3. CIRCUIT DIAGRAM INSTRUCTIONS, P. 3

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.				CIRCUIT DIAGRAM INSTRUCTIONS			
SYMBOL		DESCRIPTION		SYMBOL		DESCRIPTION	
		PRESSURE SWITCH				CIGAR LIGHTER	
		NORMALLY OPEN-MANUAL SWITCH				MAGNETIC SWITCH	
		NORMALLY CLOSED-MANUAL SWITCH				BAP SENDER	
		GROUND STUD OR SPLICE PACK				SINGLE ELEMENT LIGHT	
		FUSE				DUAL ELEMENT LIGHT	
		RESISTOR				TEMP SENDER	
		CRANK MOTOR & SOLENOID				SOLENOID	
		SPEAKER				WHEEL SPEED SENSOR	
		HORN				MOTOR	
		IN-LINE CONNECTOR					
		COMPONENT CASE GROUND					
		SPLICE					
		RELAY-SUPPRESSED					

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
-	-	-	-	-	U00JAHF	LCF CIRCUIT DIAGRAMS
					RELEASE NO.	DATE
					59053V	05FEB04
						PART NO.
						AE08-55410
						SHEET
						03

Figure 3 Circuit Diagram Instructions

1.4. RELAY FUNCTIONS AND WIRING GUIDE, P. 4

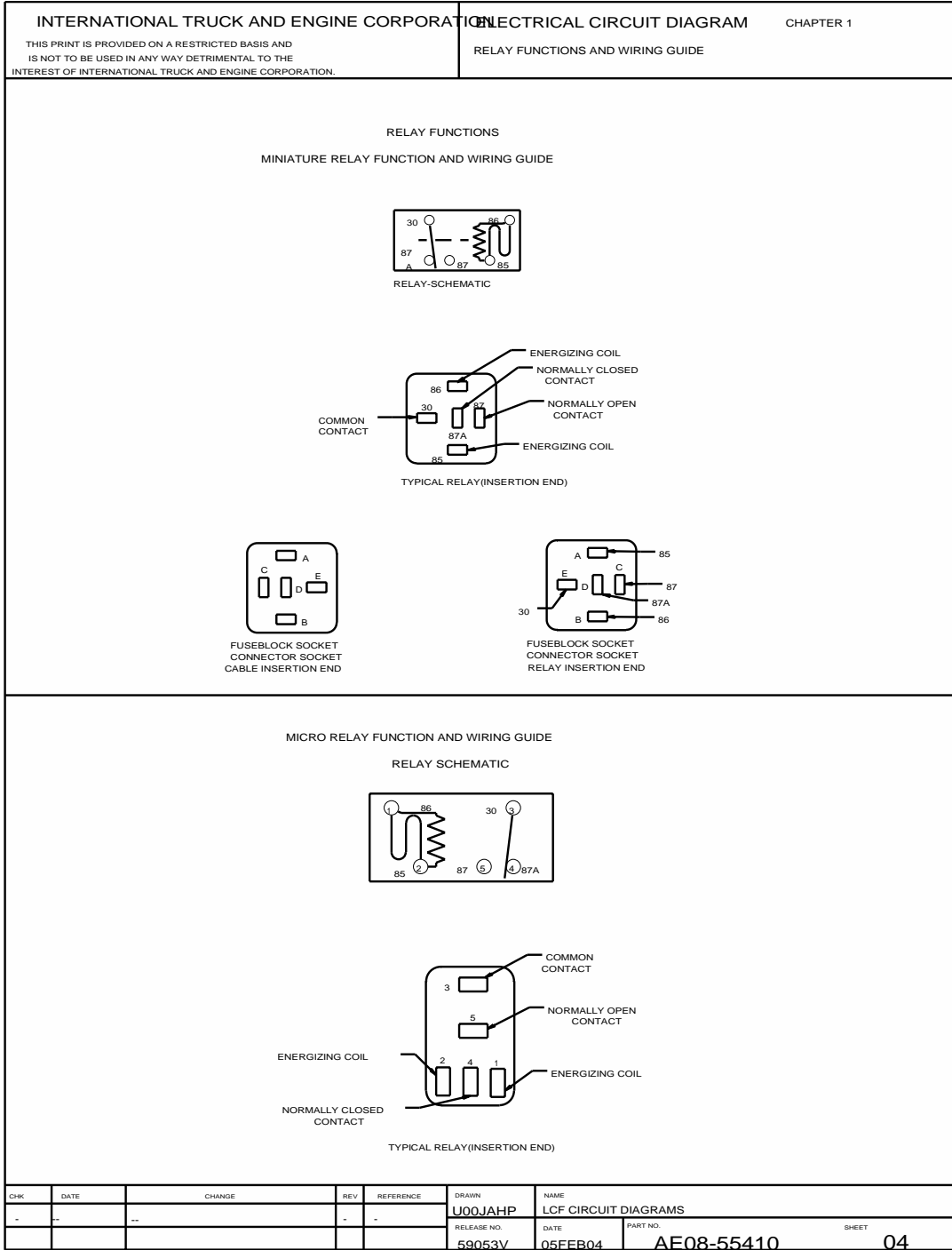


Figure 4 Relay Functions and Wiring Guide

1.5. INTERNATIONAL V6 ENGINE CONTROLLER PIN NUMBER IDENTIFICATION, P. 5

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 V6 ENGINE CONTROLLER PIN NUMBER IDENTIFICATION			
CONNECTOR (X3) (304E)				CONNECTOR (X4) (304D)			
ECM PIN	TERM	DESCRIPTION		ECM PIN	TERM	DESCRIPTION	
1	WIF	WATER IN FUEL STATUS		1	ECM2 PWR	ECM2 POWER	
2		NOT POPULATED		2	ECM2 PWR	ECM2 POWER	
3	KEYPWR	KEY POWER		3		NOT POPULATED	
4		NOT POPULATED		4	VBREF	5V REFERENCE	
5	ECM2 MPR	ECM2 MAIN POWER RELAY		5		NOT POPULATED	
6	BATT GND	BATTERY GROUND		6	COO	CRUISE ON/OFF	
7	BATT GND	BATTERY GROUND		7		NOT POPULATED	
8	DDS	DRIVELINE DISENGAGE SIGNAL		8		NOT POPULATED	
9	FPC	FUEL PUMP CONTROL		9		NOT POPULATED	
10	ACD	A/C DEMAND		10		NOT POPULATED	
11	TACH	TACH OUT SIGNAL		11		NOT POPULATED	
12	CAN1+	J1939 +		12	IVS	IDLE VALIDATION SW	
13	CAN1-	J1939 -		13		NOT POPULATED	
14	RAS	RESUME/ACCEL SWITCH		14		NOT POPULATED	
15		NOT POPULATED		15	FPM	FUEL PUMP MONITOR	
16		NOT POPULATED		16		NOT POPULATED	
17	VSS CAL	VSS CAL (SPEED0)		17	WEL	WARNING LIGHT	
18		NOT POPULATED		18	APS	ACC PEDAL SSR	
19	RPRE	REMOTE PRESET		19		NOT POPULATED	
20	RVAR	REMOTE VARIABLE		20	ATA+	J1708 +	
21	SCS	SET/COAST SWITCH		21	ATA-	J1708 -	
22	ACC	A/C CONTROL		22		NOT POPULATED	
23	ECI	ENGINE CRANK INHIBIT		23		NOT POPULATED	
24	BAP	BAROMETRIC AIR PRESSURE		24	KL31B	GROUND	
CONNECTOR (8-WAY) (706)				CONNECTOR (12-WAY) (707)			
ECM PIN	TERM	DESCRIPTION		ECM PIN	TERM	DESCRIPTION	
1	OWL	OIL WATER LAMP		1	IDM2 GND	GROUND	
2	BOO	BRAKE ON/OFF SW		2	ATA+	J1708 +	
3		NOT POPULATED		3	ATA-	J1708 -	
4		NOT POPULATED		4	PWR GND	POWER GROUND	
5		NOT POPULATED		5	A/C-	A/C CLUTCH -	
6		NOT POPULATED		6	IDM LGC PWR	IDM2 LOGIC POWER	
7	START SOL	STARTER SOLENOID		7	A/C+	A/C CLUTCH +	
8	BPS	BRAKE PRESSURE SW		8	IDM2 MPR	IDM2 MAIN PWR RELAY	
				9	KEYPWR	KEY POWER	
				10	ACT PWR	ACTUATOR POWER	
				11	ALT	ALTERNATOR WARNING	
				12	IDM2 MP	IDM2 MAIN POWER	
CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	
CNA	08OCT04	TYPO CORRECTIONS	A	59350C	U00JAHF	LCF CIRCUIT DIAGRAMS	
					RELEASE NO.	DATE	PART NO.
					59053V	05FEB04	AE08-55410
							SHEET 05

Figure 5 International V6 Engine Controller Pin Number Identification

1.6. POWER DISTRIBUTION BOX, P. 6

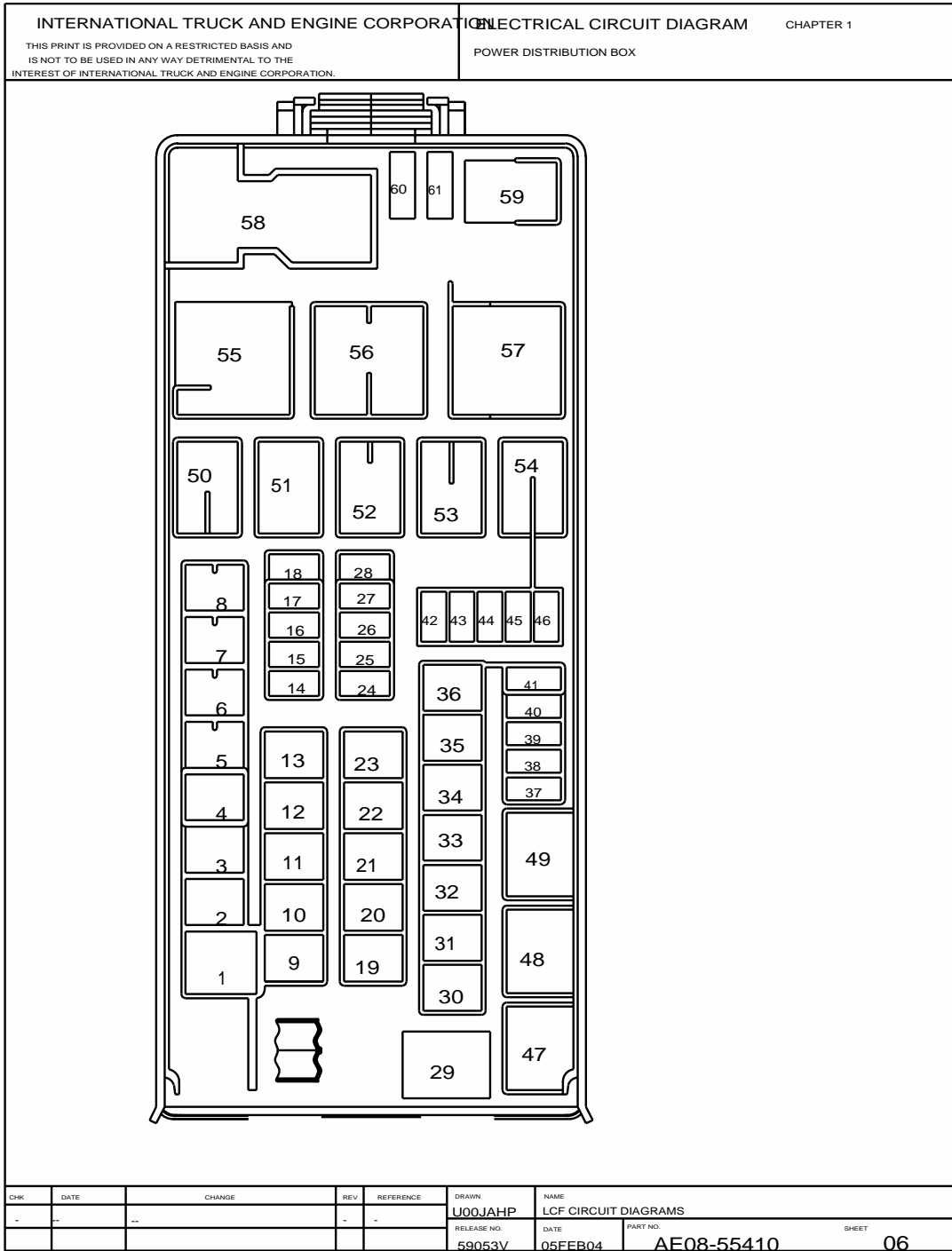


Figure 6 Power Distribution Box

1.7. POWER DISTRIBUTION BOX, P. 7

<b>INTERNATIONAL TRUCK AND ENGINE CORPORATION</b>		<b>ELECTRICAL CIRCUIT DIAGRAM</b>		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.		POWER DISTRIBUTION BOX			
1	BLANK	31	20A (DIAGNOSTIC CONN)		
2	30A (STARTER)	32	40A (PWR WINDOW)		
3	20A (PARK LAMPS)	33	25A (BODY BUILDER)		
4	40A (IDM/ECM)	34	20A (A/C CLUTCH)		
5	30A (HEAD LAMPS)	35	20A (CLUSTER)		
6	40A (BLOWER MOTOR)	36	BLANK		
7	25A (WIPER)	37	10A (TURN)		
8	30A (ELECTRIC BRAKE)	38	BLANK		
9	20A (DOOR LOCK)	39	10A (CORNERING LAMPS)		
10	20A (STOP LAMPS)	40	10A (IDM LOGIC PWR/FAN DRV)		
11	20A (FUEL PUMP)	41	10A (ECM PWR)		
12	20A (RUN/ACC FEED)	42	10A (RADIO)		
13	20A (RUN/START FEED)	43	BLANK		
14	15A (HORN)	44	BLANK		
15	10A (CLUSTER (BATT))	45	BLANK		
16	15A (B/U LAMPS)	46	5A (ECM KEY PWR)		
17	15A (FOG LAMPS)	47	BODY BUILDER		
18	15A (TRANS)	48	FUEL PUMP		
19	20A (FUEL HEATER)	49	B/U LAMPS		
20	60A (ABS MODULE)	50	ECM		
21	20A (TRAILER BOX)	51	FUEL HEATER		
22	30A (BODY BUILDER)	52	TRANS		
23	40A (TRAILER BATT)	53	A/C CLUTCH		
24	20A (CIGAR LIGHTER)	54	FOG LAMPS		
25	20A (HAZARD)	55	IDM		
26	15A (KEYLESS)	56	WIPER		
27	10A (RADIO)	57	STARTER		
28	10A (DOME)	58	BLANK		
29	60A (ABS PUMP)	59	PARK LAMPS		
30	30A (PUSHER FAN)	60	TRANS RELAY DIODE		
		61	BLANK		

COMPONENT	DESCRIPTION	PART NUMBER	QUANTITY
DIODE	1 AMP DIODE	3592484C1	1
A-TYPE	20A FUSE - BLUE	3578638C1	11
A-TYPE	25A FUSE - NATURAL	3578639C1	2
A-TYPE	30A FUSE - PINK	3578640C1	5
A-TYPE	40A FUSE - GREEN	3578641C1	4
A-TYPE	60A FUSE - YELLOW	3578643C1	1
MINI FUSE	5A FUSE - TAN	3534208C1	1
MINI FUSE	10A FUSE - RED	3534209C1	8
MINI FUSE	15A FUSE - BLUE	3534210C1	5
MINI FUSE	20A FUSE - YELLOW	3534211C1	2
RELAY	MICRO RELAY	2026910C1	9
RELAY	FULL ISO RELAY	2012557C1	3

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
JKP	13DEC04	FUSE 31 WAS 10A FUSE	B	59552E	U00JAHF	LCF CIRCUIT DIAGRAMS
		35 WAS 15A, 36 WAS 20A			RELEASE NO. 59053V	DATE 05FEB04 PART NO. AE08-55410 SHEET 07

Figure 7 Power Distribution Box

1.8. IN-CAB RELAY BOX, P. 8

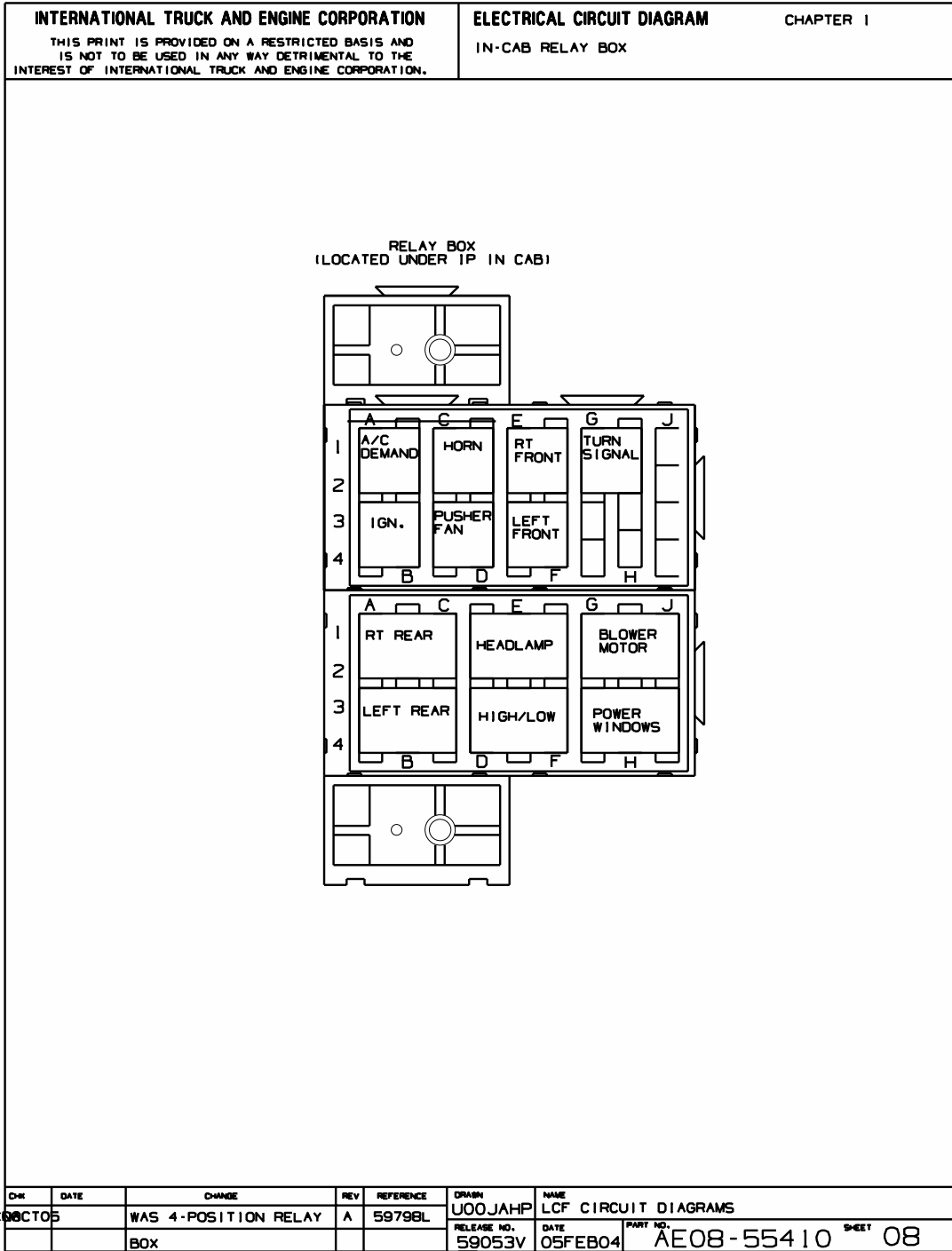


Figure 8 In-Cab Relay Box

1.9. LAMP BULB 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.				LAMP BULB CHART			
<b>BULB APPLICATION</b>	<b>CANDLEPOWER OR WATTS</b>			<b>BULB TRADE NUMBER</b>			
ASHTRAY	1.4W			74T-5			
DOME	10W			L:2X			
FOGLIGHTS	55W			64151			
ROOF MARKER LIGHTS	5W			0194			
HIGH BEAM HEADLIGHT	65W			9007 LL			
LOW BEAM HEADLIGHT	55W			9007 LL			
PARK LAMP	27W			1157NA			
FRONT TURN SIGNAL	8W			1157NA			
SIDE MARKER LIGHTS	5W			168			
REVERSE LIGHT	32W			1156			
STOP/TAIL LIGHTS	32W/3W			1157			

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
08	05	DEL RR TRN. CHANGED	C	59798L	U00JAHP	LCF CIRCUIT DIAGRAMS
		REVERSE&STOP/TURN PT #			RELEASE NO. 59053V	DATE 05FEB04
					PART NO. AE08-55410	SHEET 09

Figure 9 Lamp Bulb Chart

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

2.1. BATTERY FEEDS, P. 1

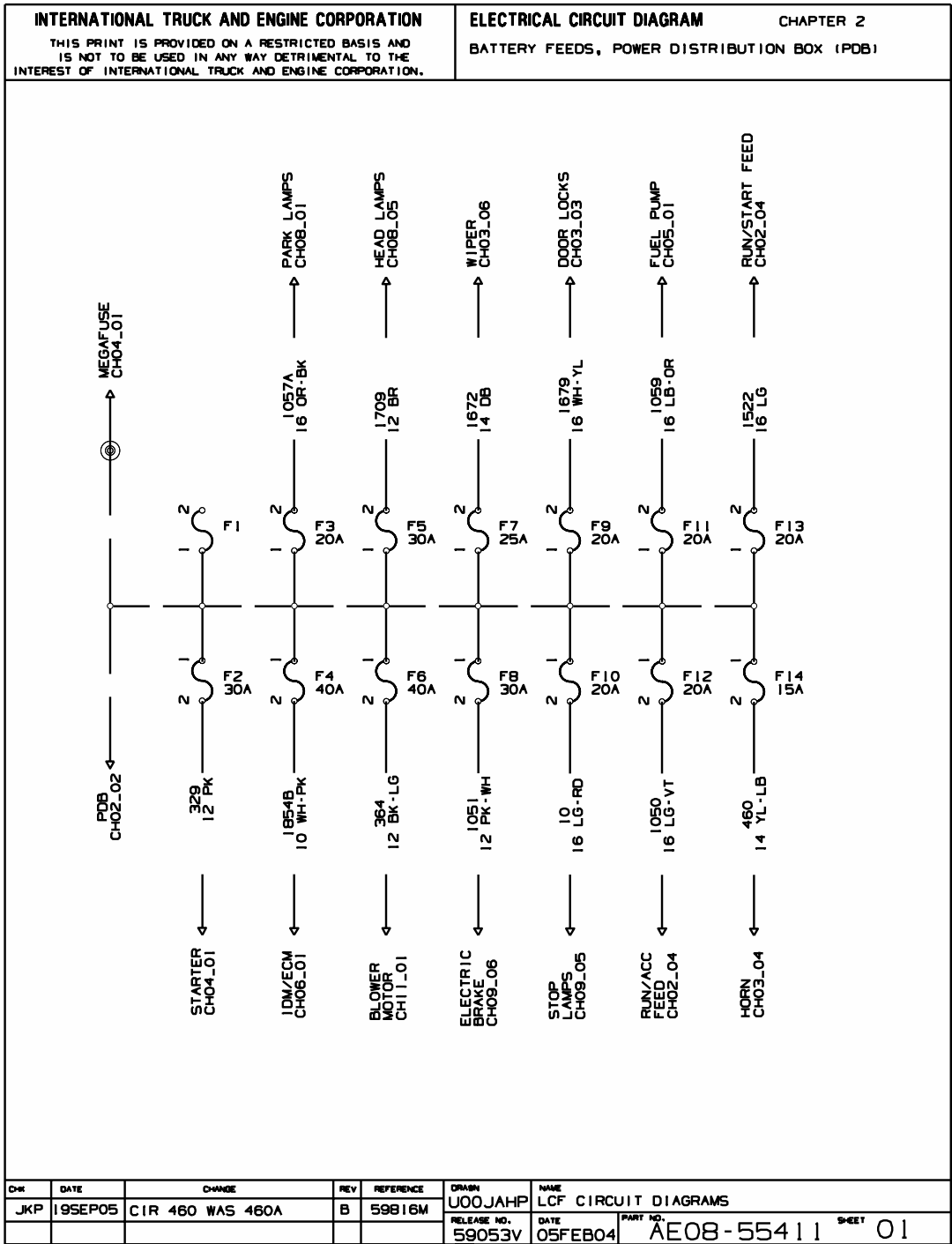


Figure 10 Battery Feeds



2.2. BATTERY FEEDS, P. 2

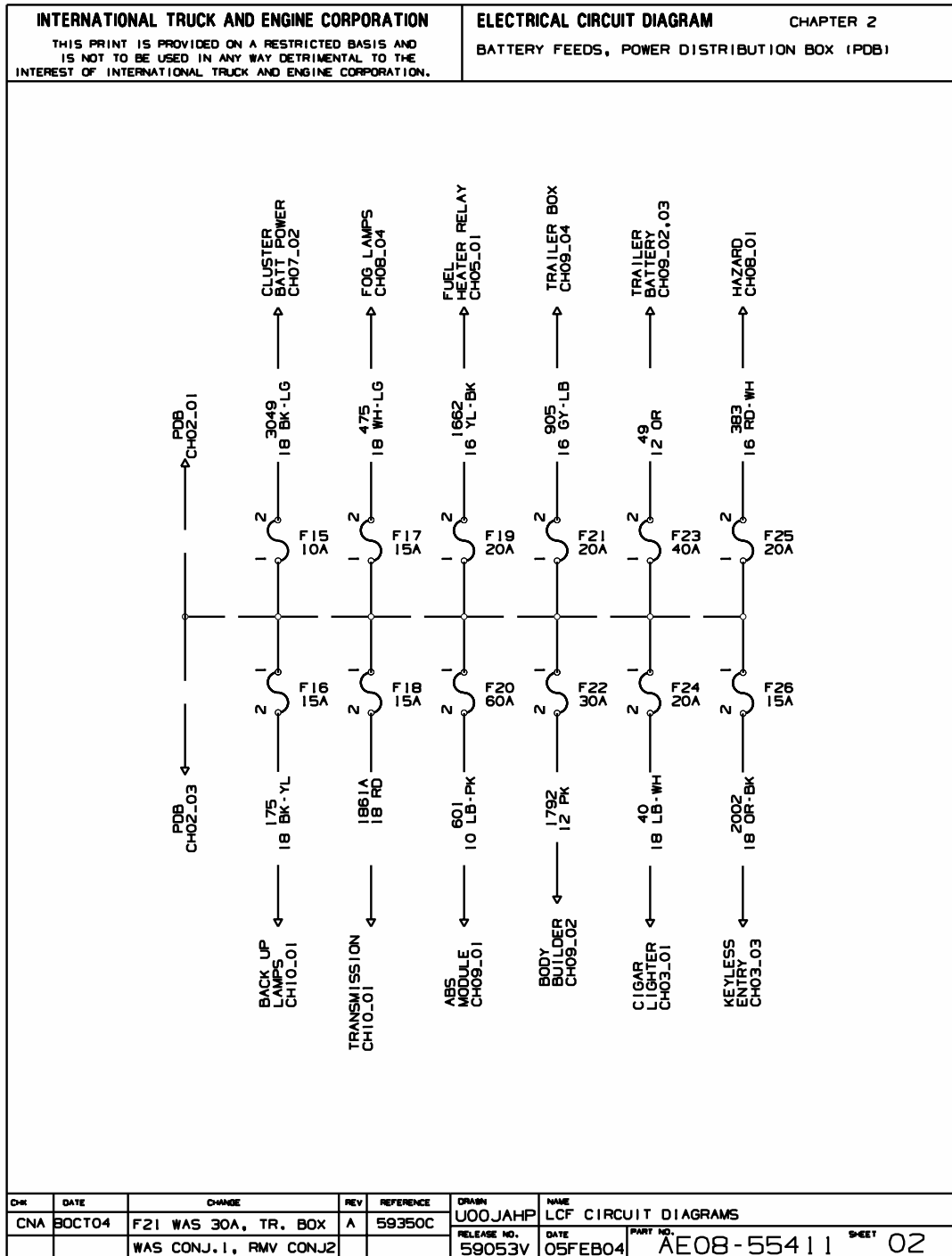


Figure 11 Battery Feeds (Cont.)

2.3. BATTERY FEEDS, P. 3

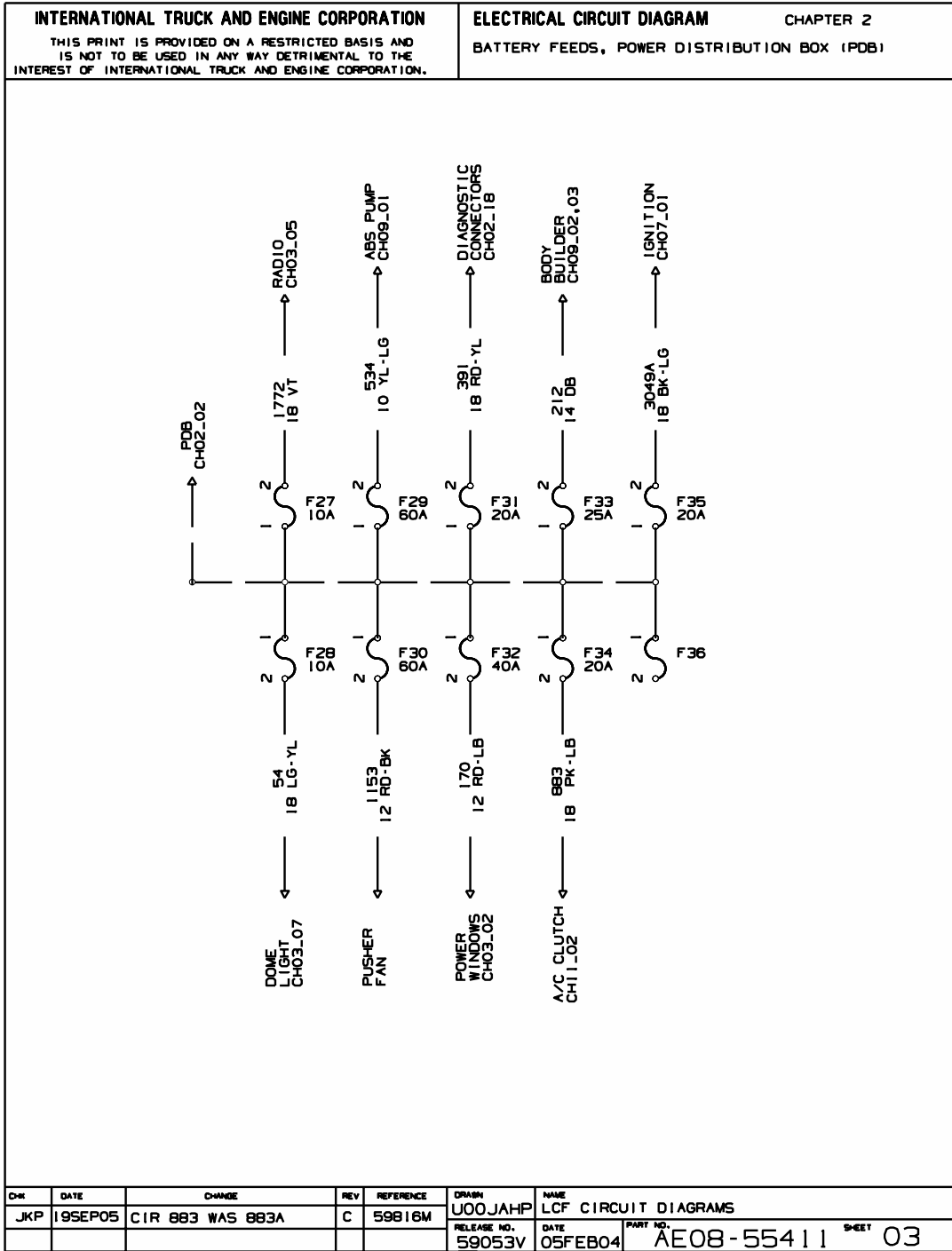


Figure 12 Battery Feeds (Cont.)

2.4. KEY SWITCH, P. 4

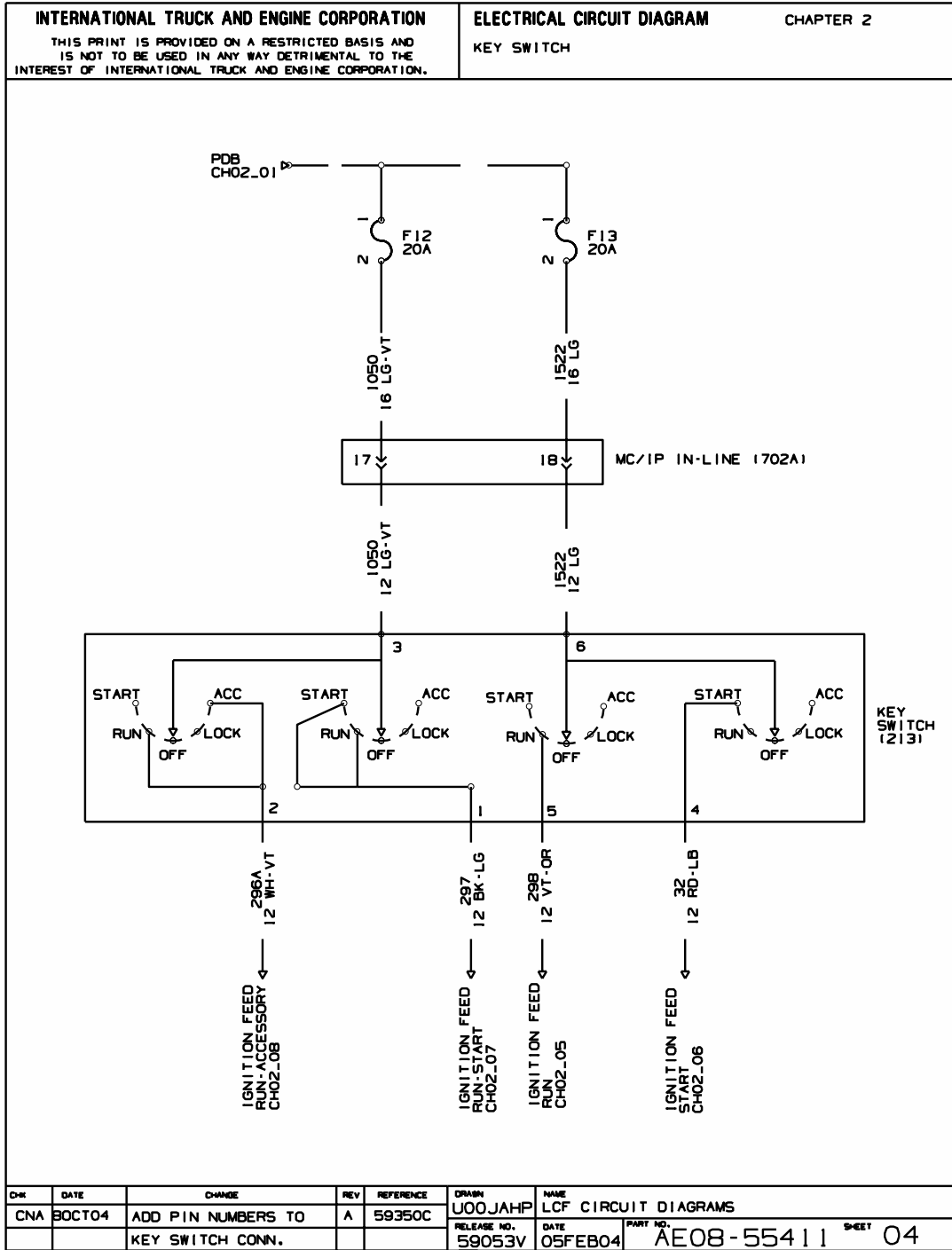


Figure 13 Key Switch

2.5. IGNITION FEEDS (RUN), P. 5

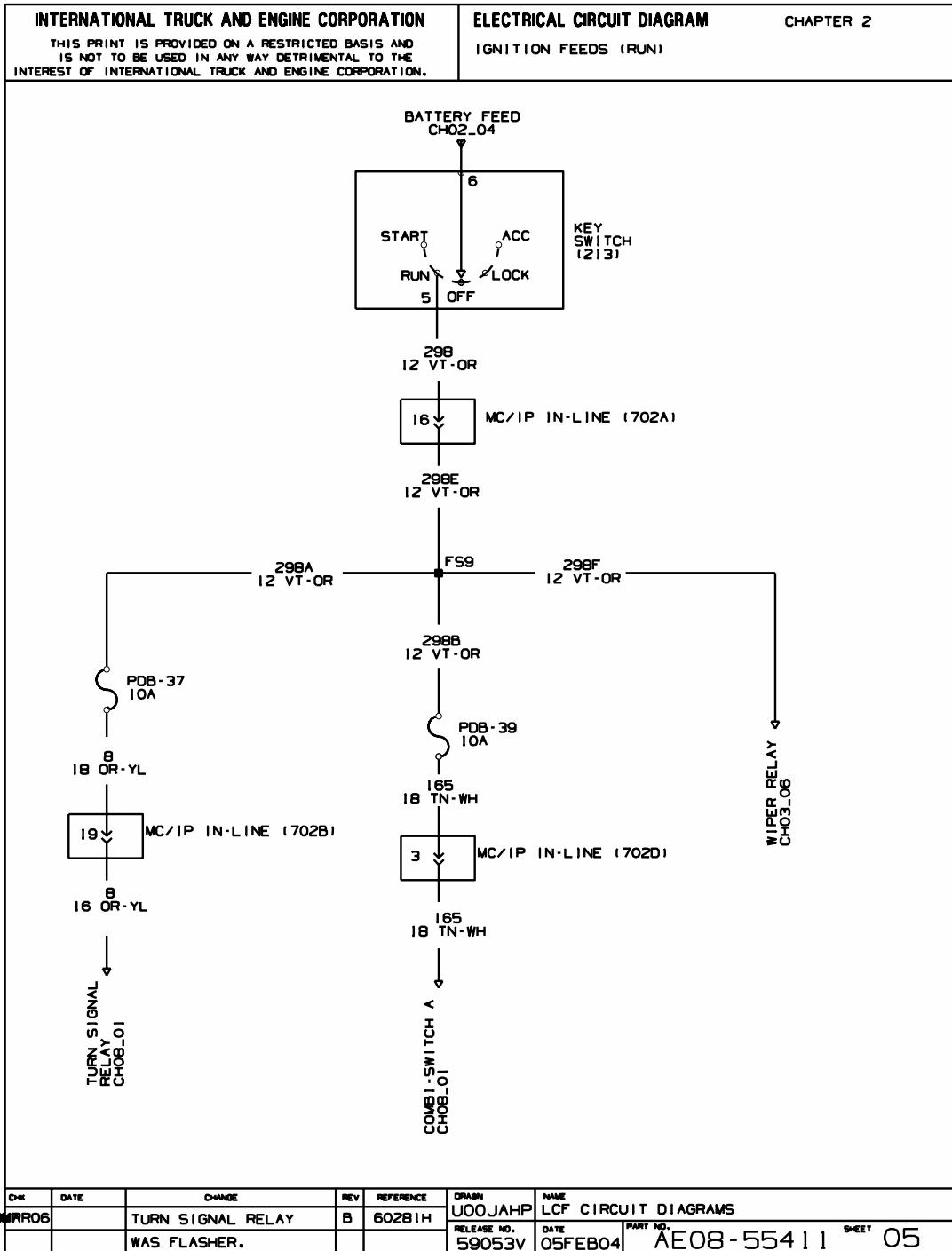


Figure 14 Ignition Feeds (Run)

2.6. IGNITION FEEDS (START), P. 6

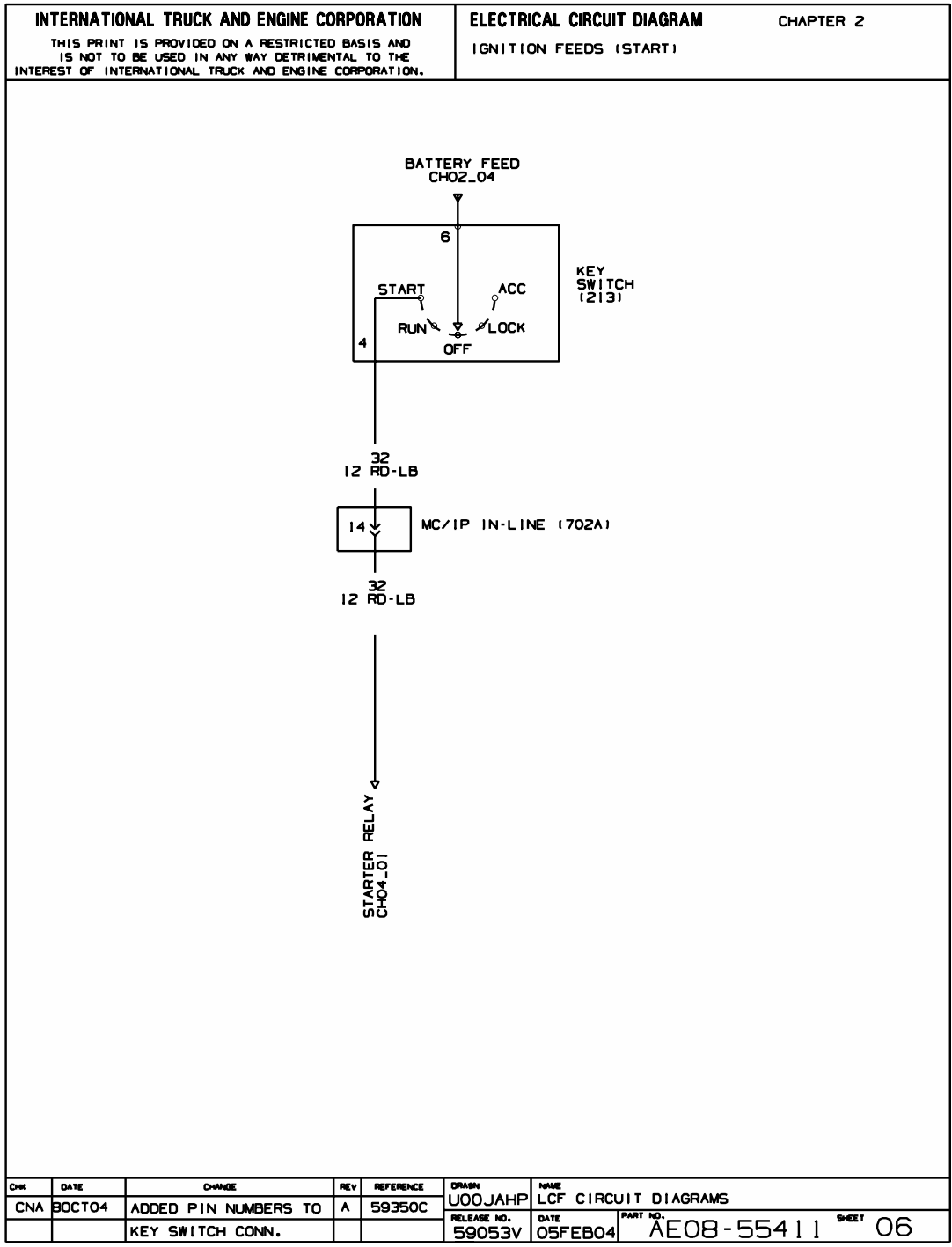


Figure 15 Ignition Feeds (Start)

2.7. IGNITION FEEDS (RUN-START), P. 7

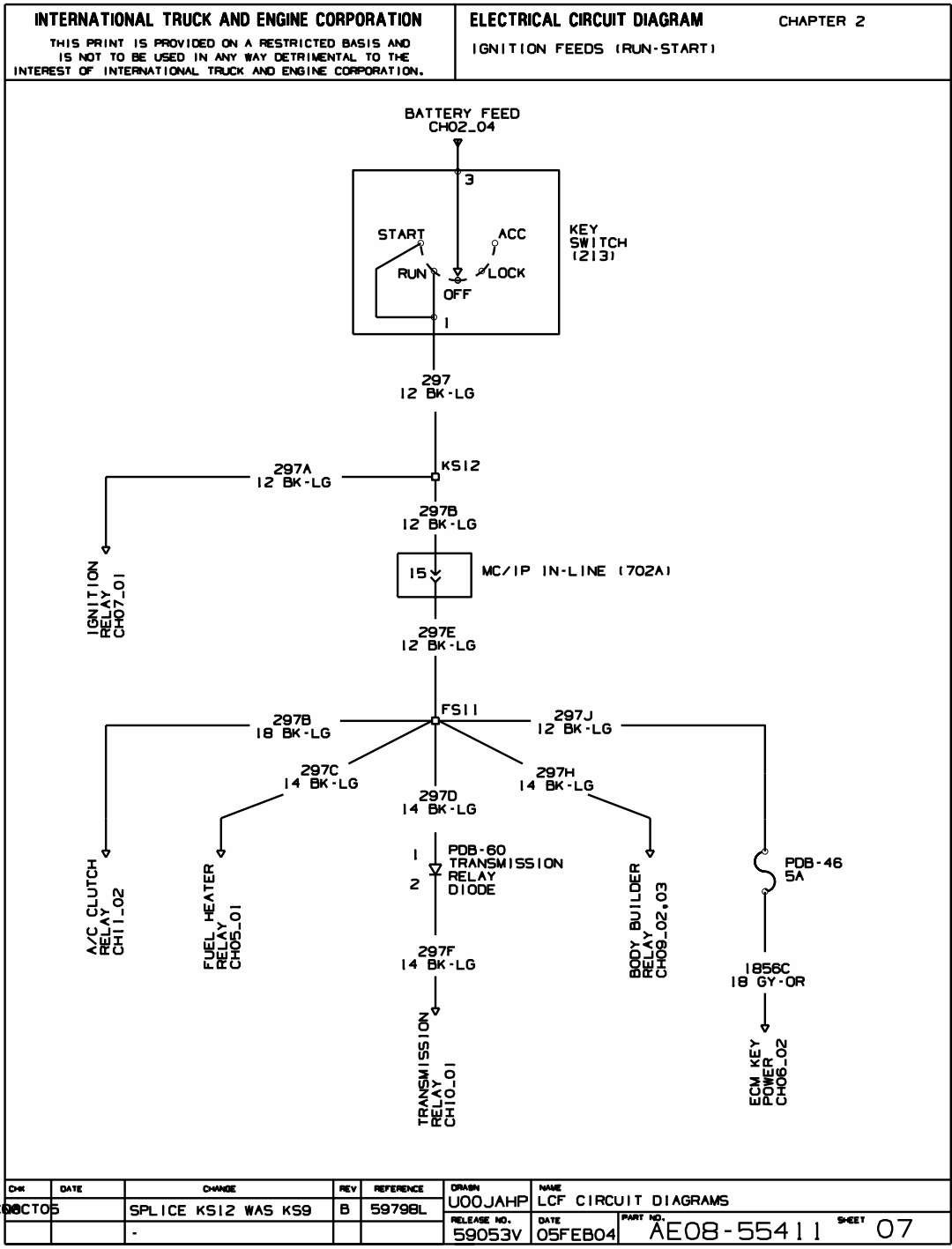


Figure 16 Ignition Feeds (Run-Start)

2.8. IGNITION FEEDS (RUN-ACCESSORY), P. 8

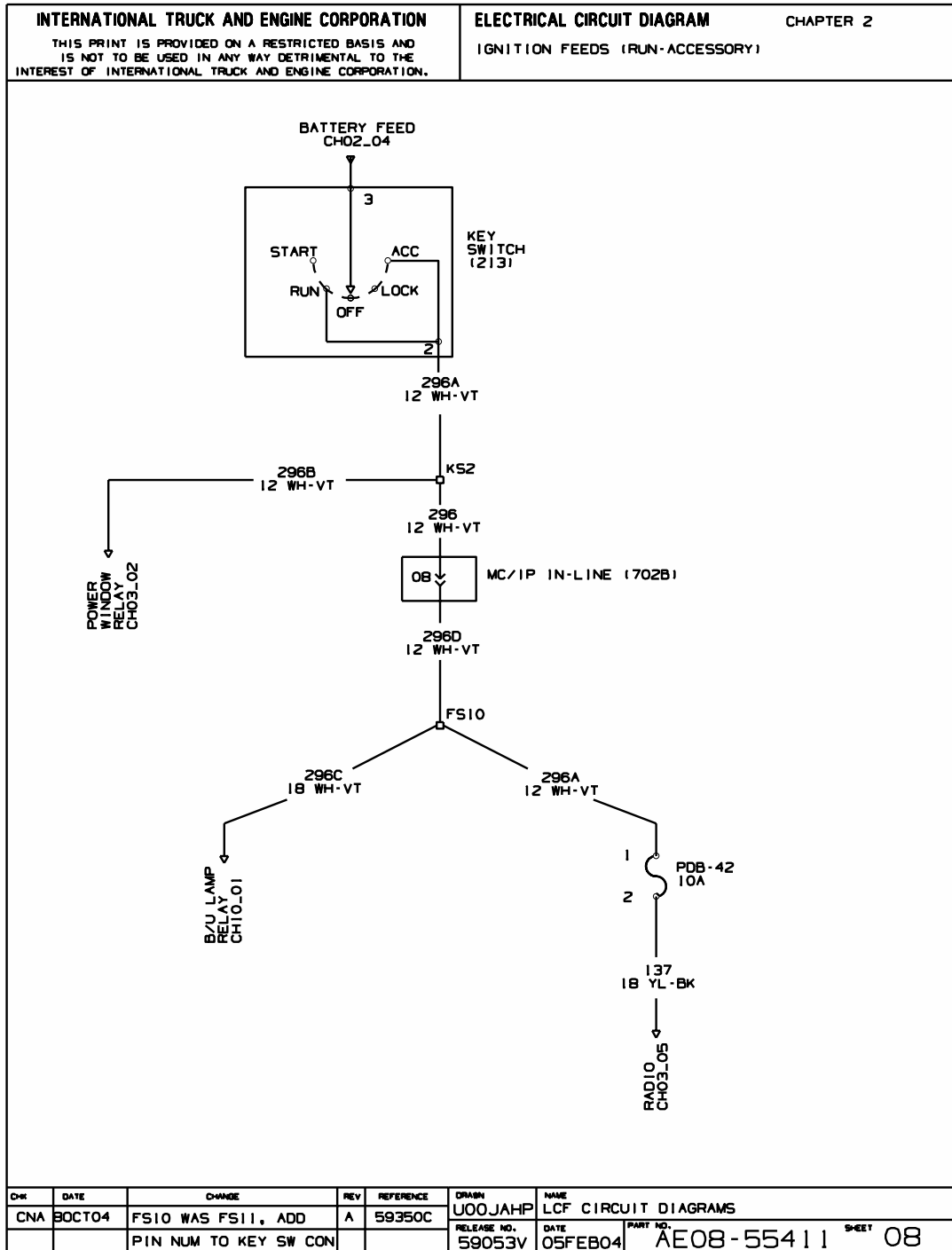


Figure 17 Ignition Feeds (Run-Accessory)

2.9. GROUNDS (MAIN CHASSIS), P. 9

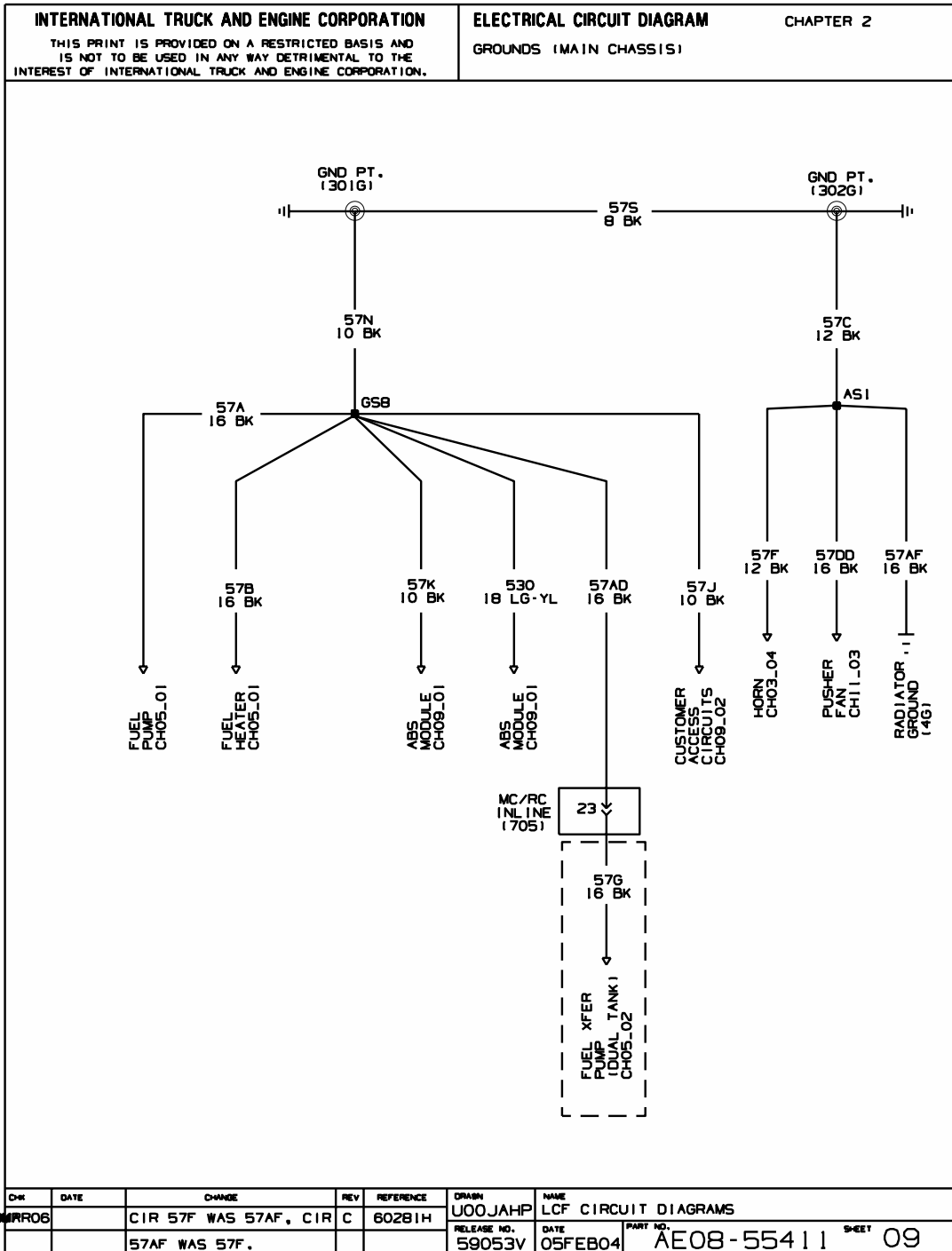


Figure 18 Grounds (Main Chassis)



2.10. GROUNDS (MAIN CHASSIS), P. 10

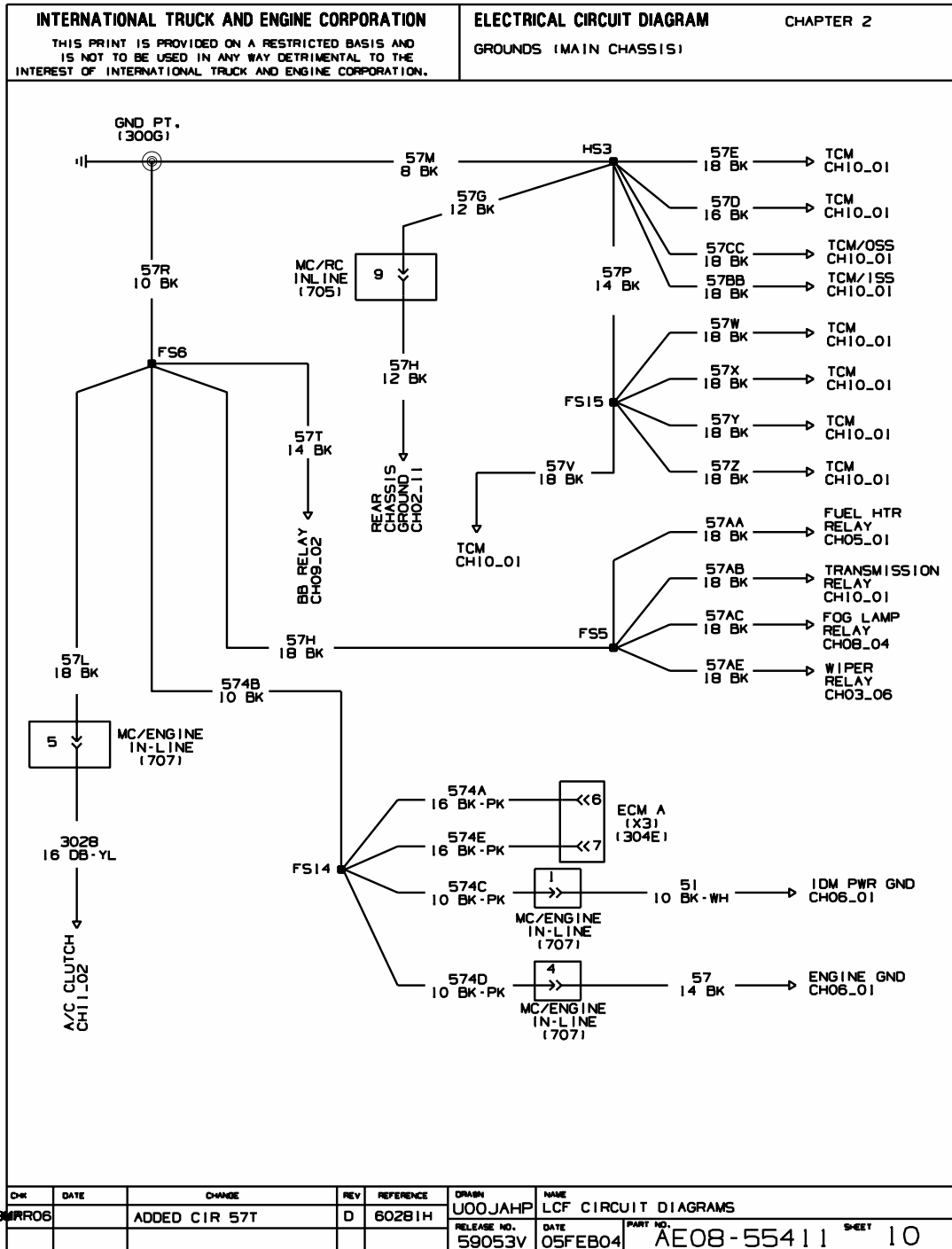


Figure 19 Grounds (Main Chassis)

2.11. GROUNDS (REAR CHASSIS), P. 11

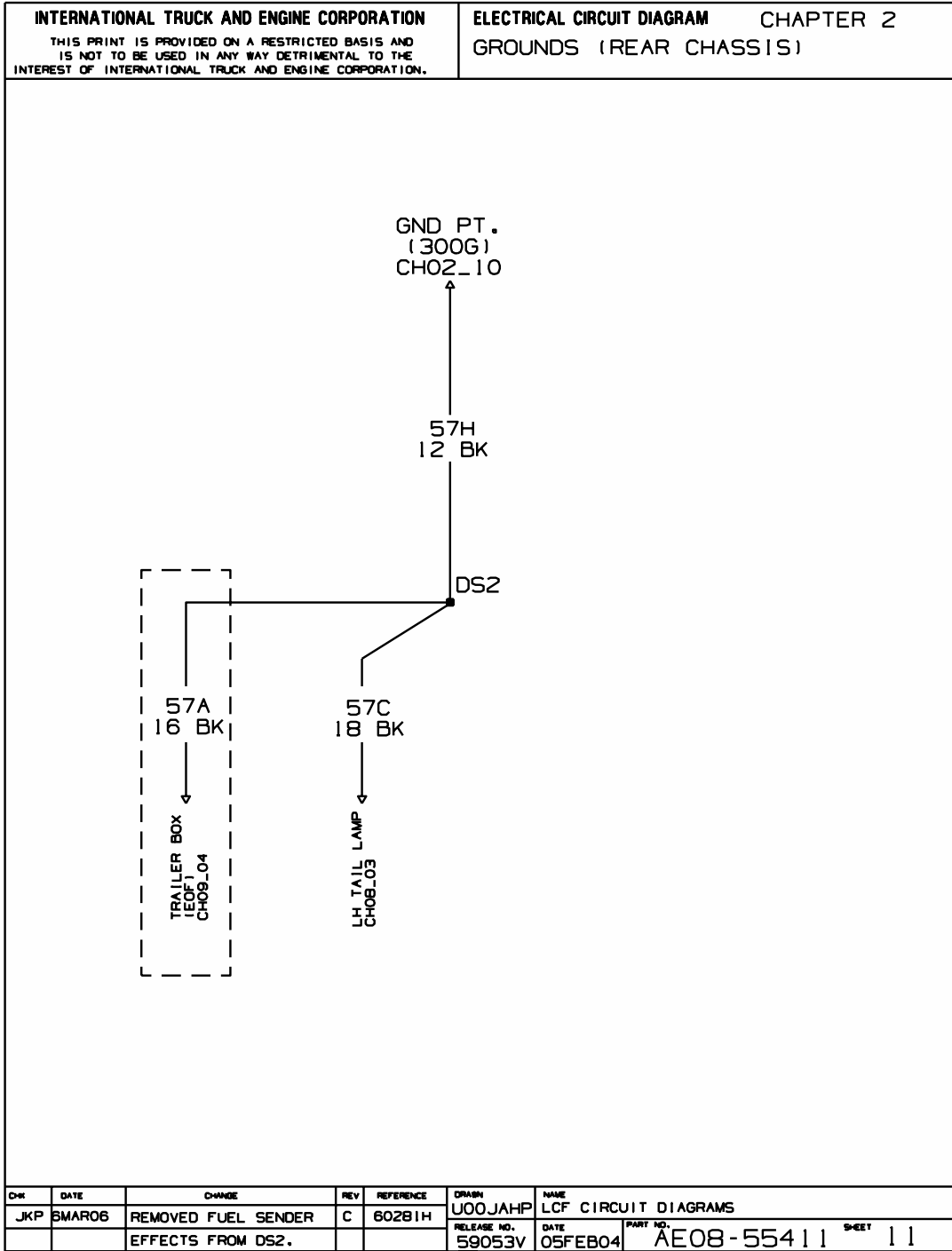


Figure 20 Grounds (Rear Chassis)

2.12. GROUNDS (IP), P. 12

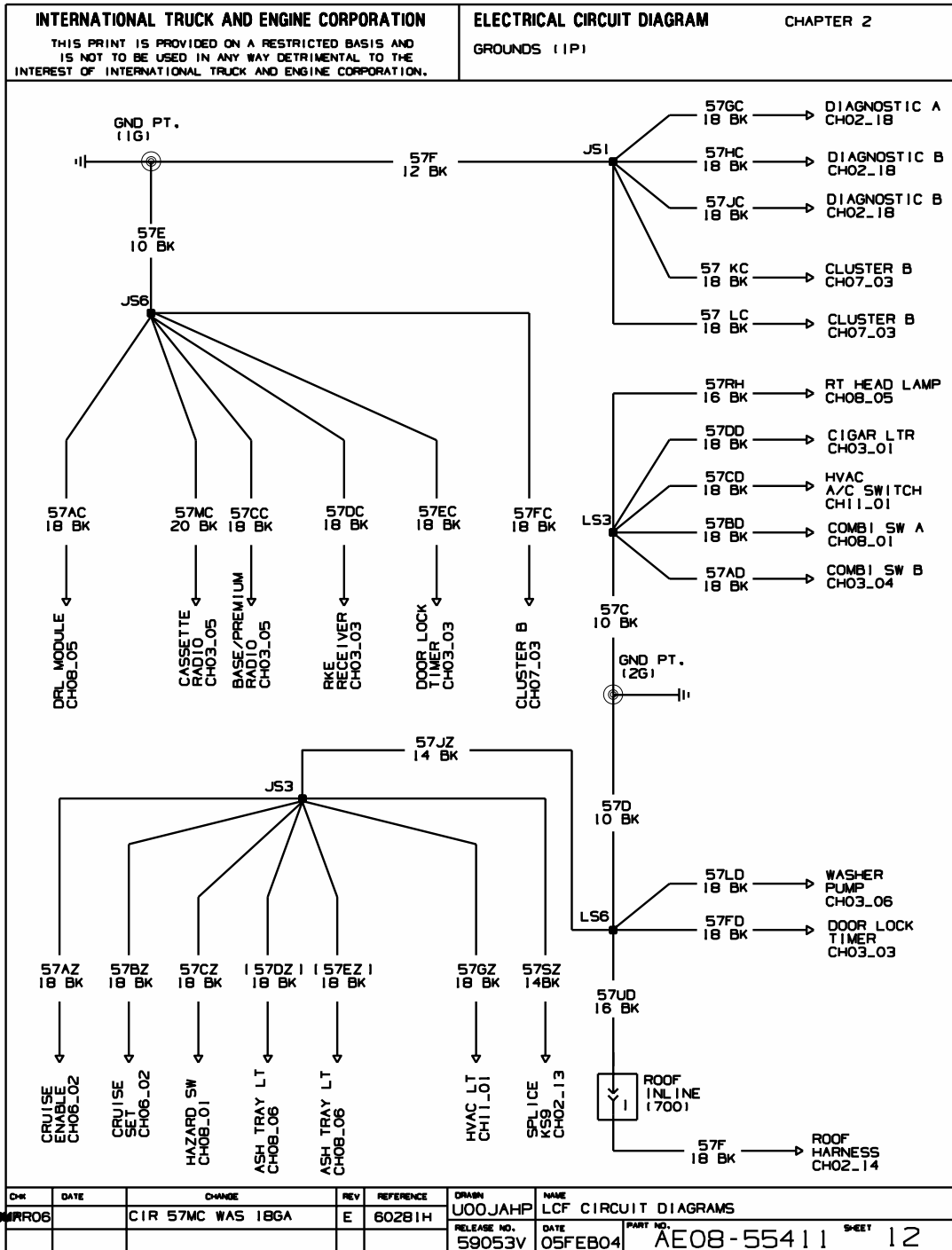


Figure 21 Grounds (IP)

2.13. GROUNDS (IP), P. 13

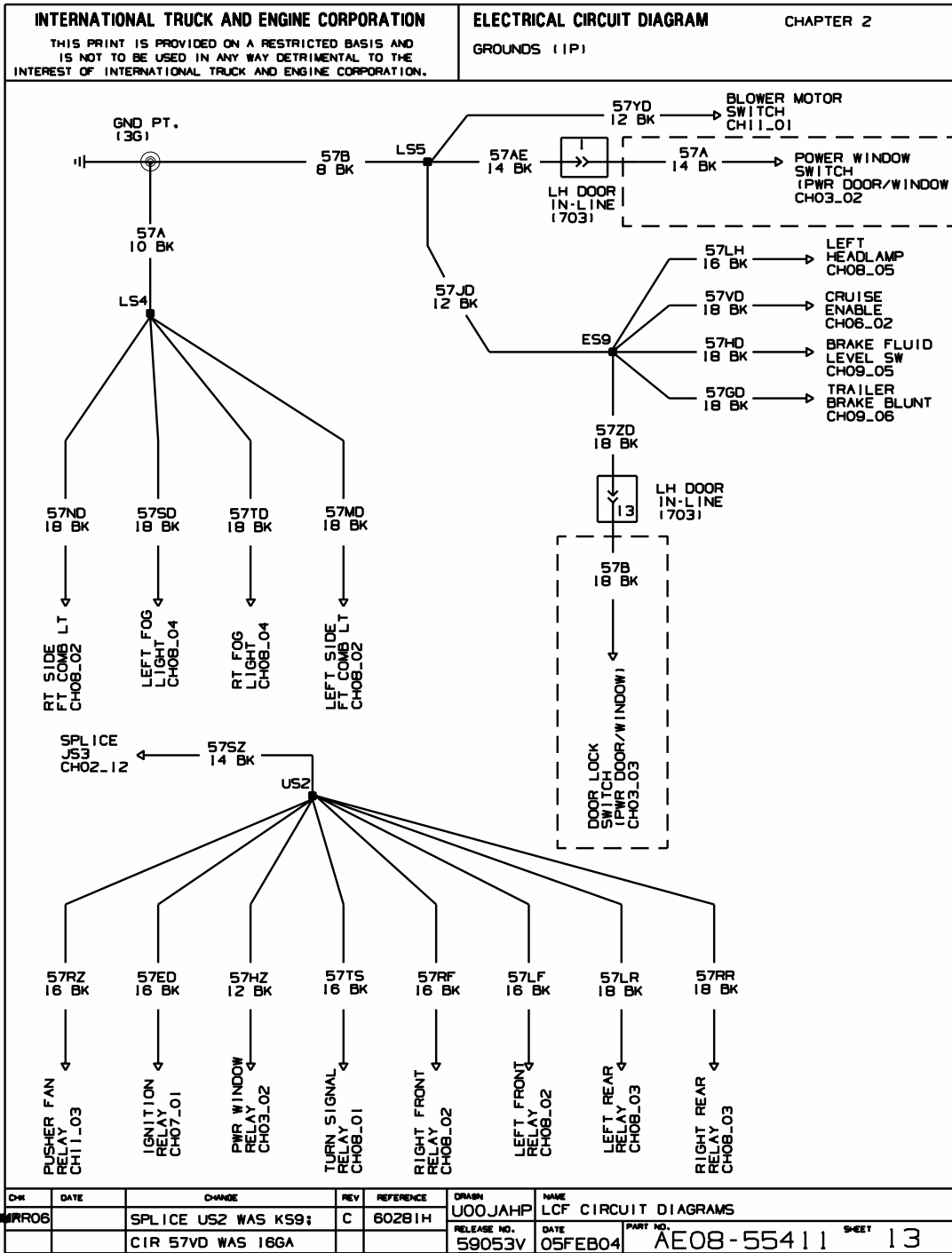


Figure 22 Grounds (IP)

2.14. CAB GROUNDS (ROOF, FLOOR), P. 14

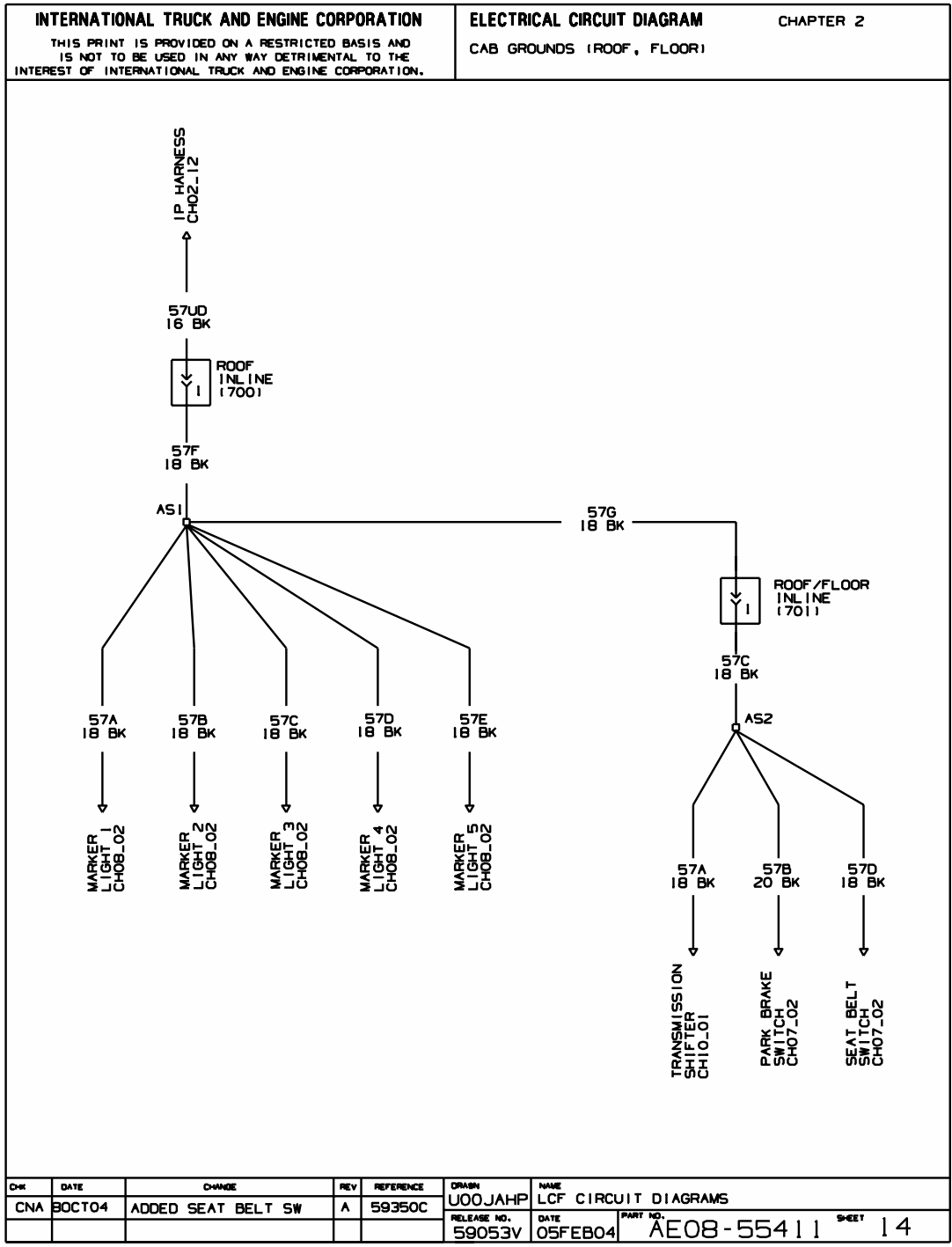


Figure 23 Cab Grounds (Roof, Floor)

2.15. J1708 DATA LINK, P. 15

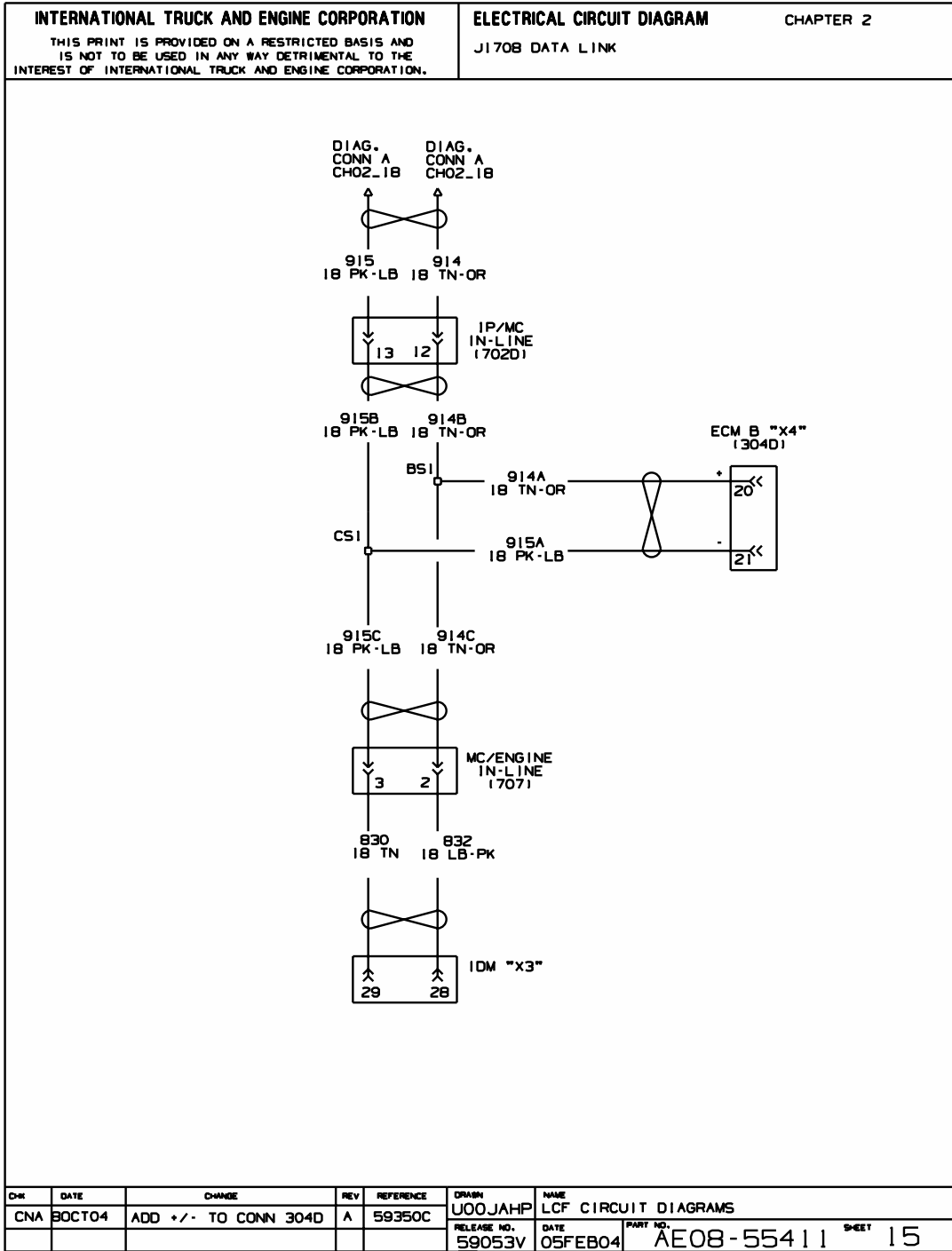


Figure 24 J1708 Data Link

2.16. J1939 DATA LINK, P. 16

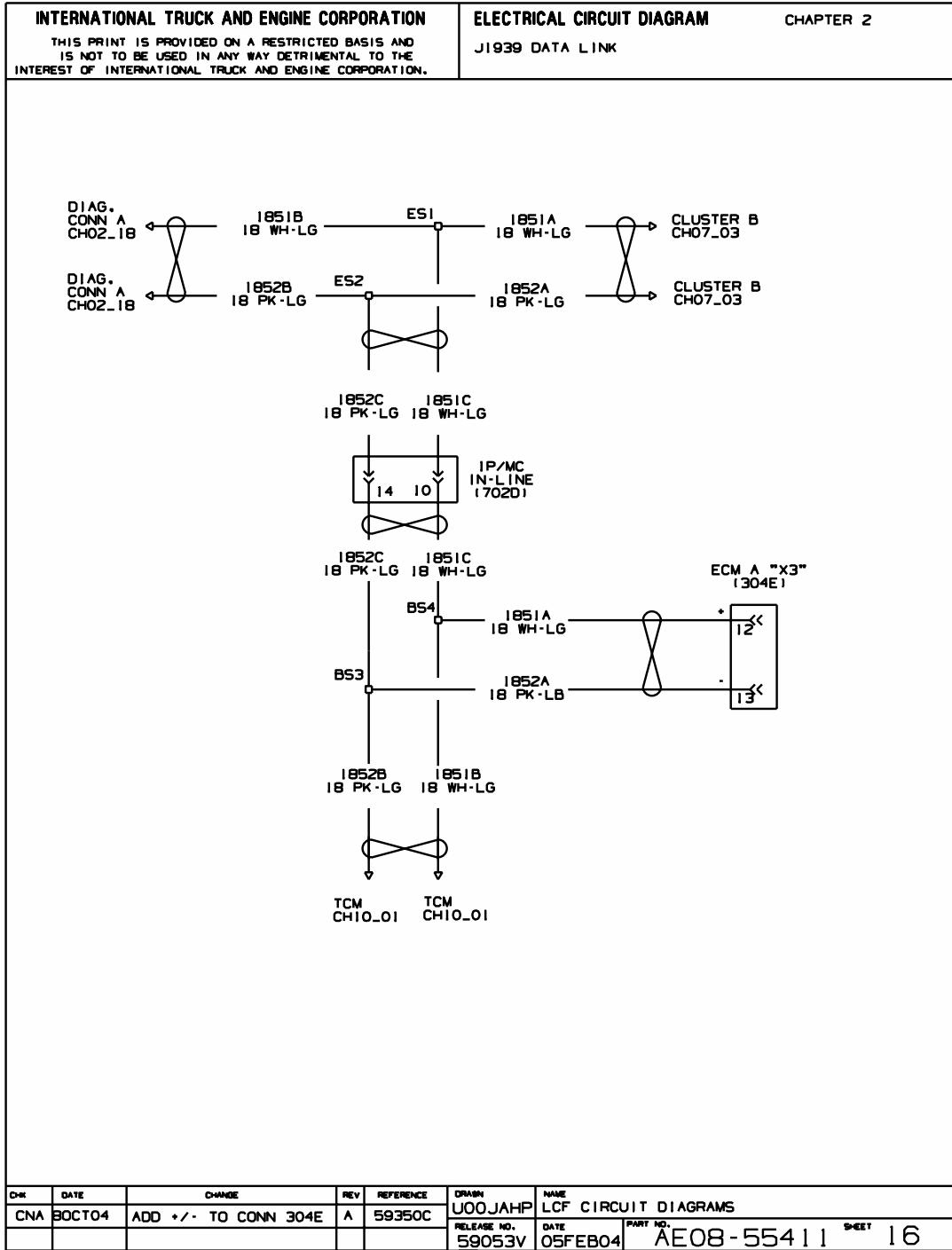


Figure 25 J1939 Data Link

2.17. J2284 DATA LINK, P. 17

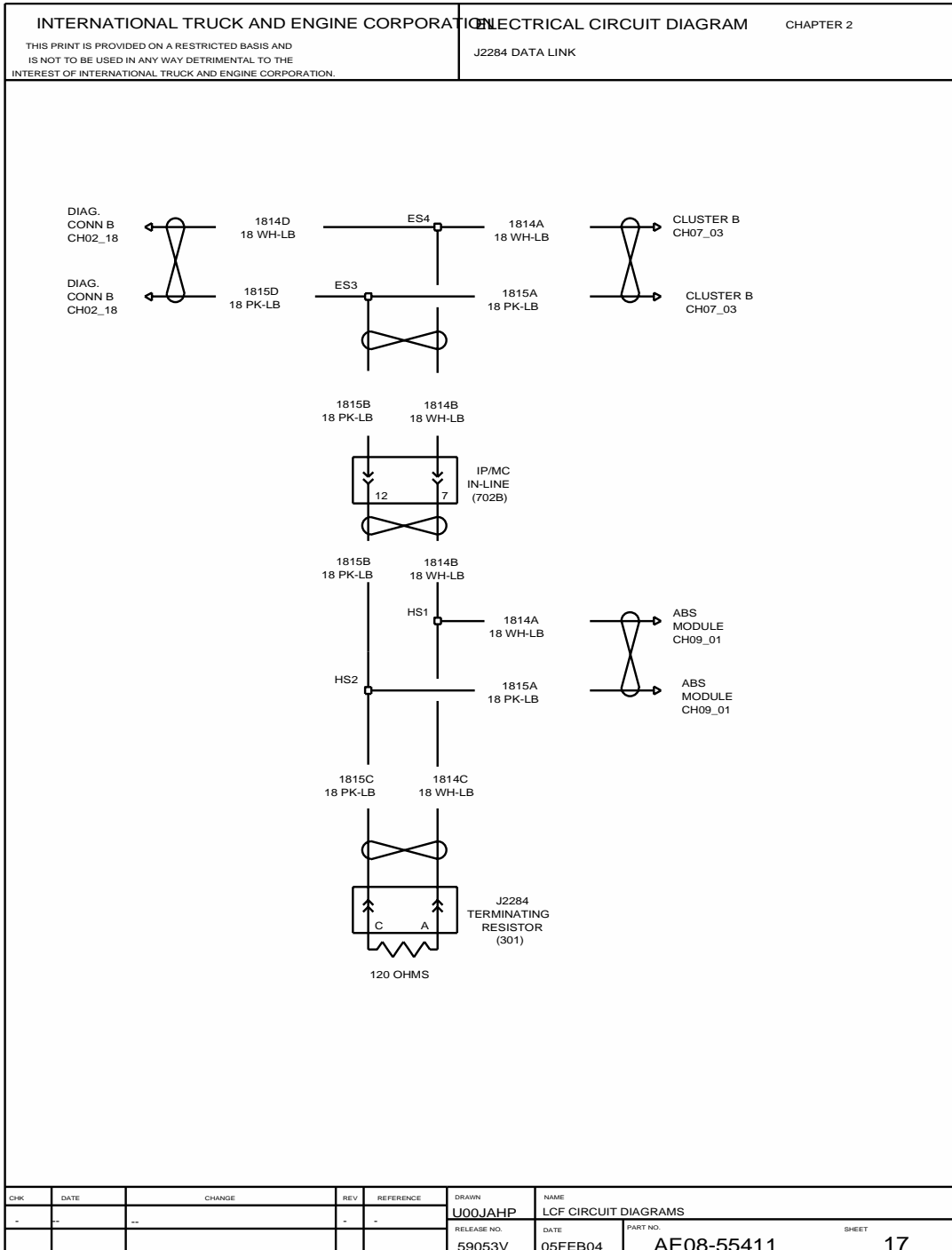


Figure 26 J2284 Data Link



2.18. DIAGNOSTIC CONNECTORS, P. 18

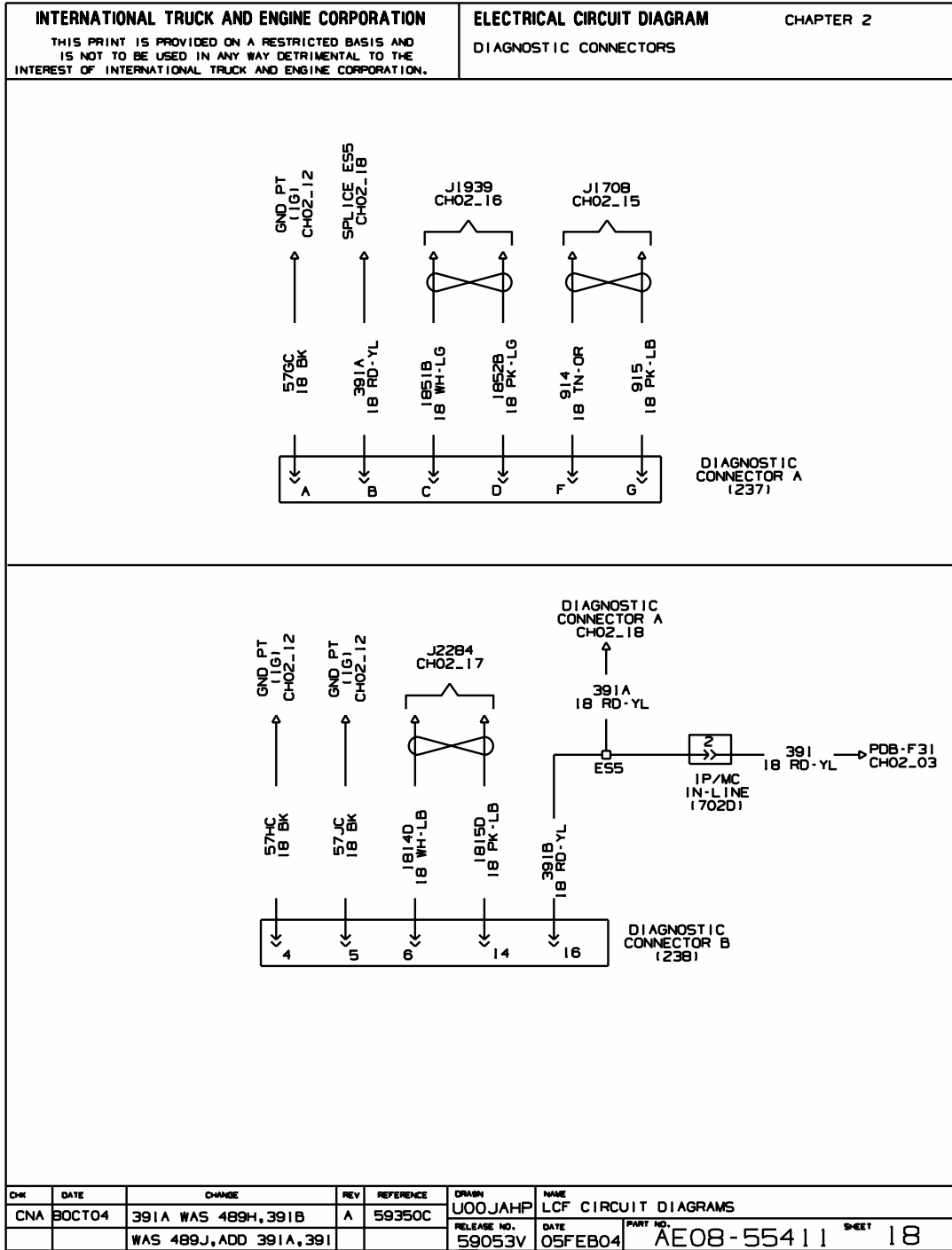


Figure 27 Diagnostic Connectors

### 3. CAB ACCESSORIES (CHAPTER 3)

#### 3.1. CIGAR LIGHTER, P. 1

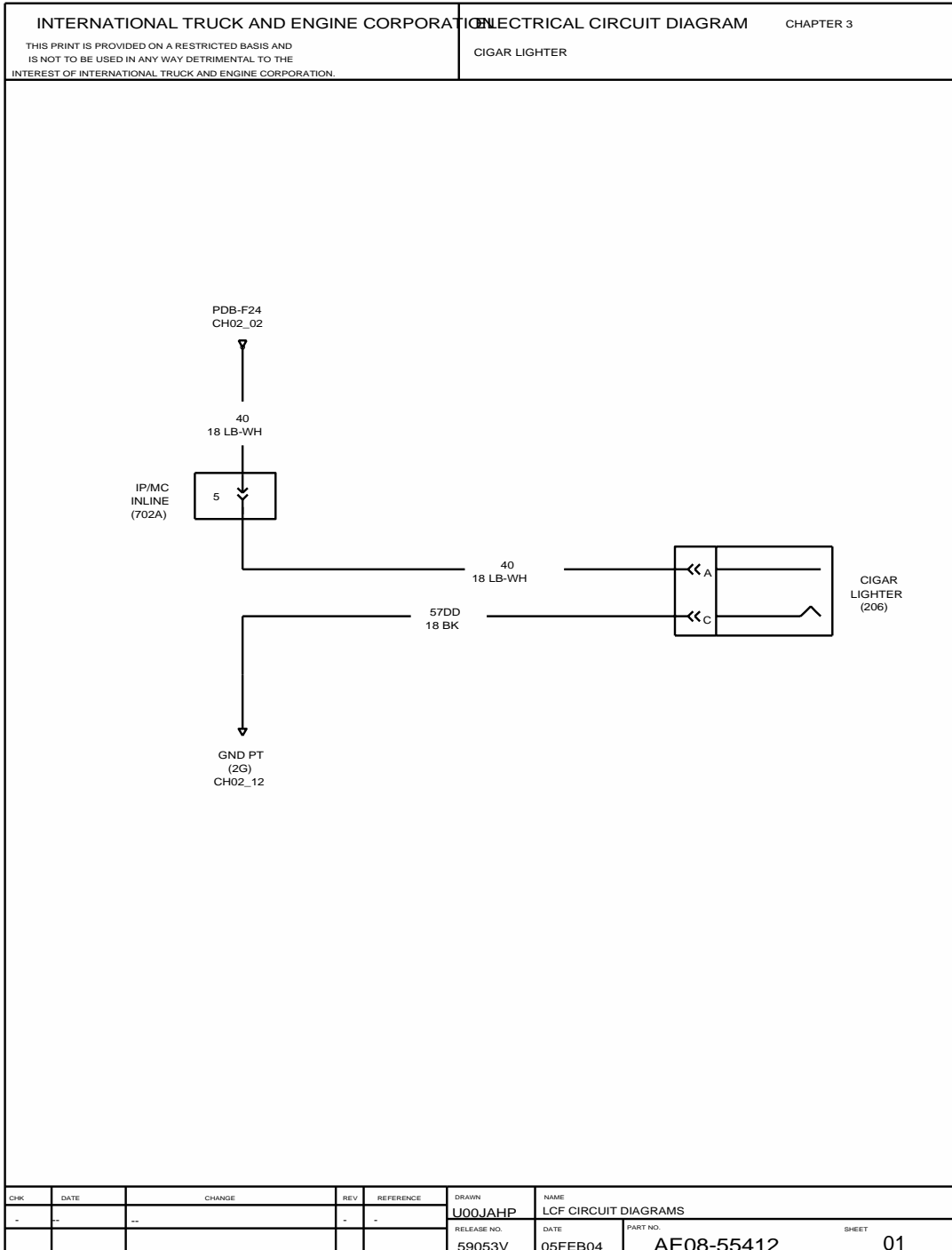


Figure 28 Cigar Lighter

3.2. POWER WINDOWS, P. 2

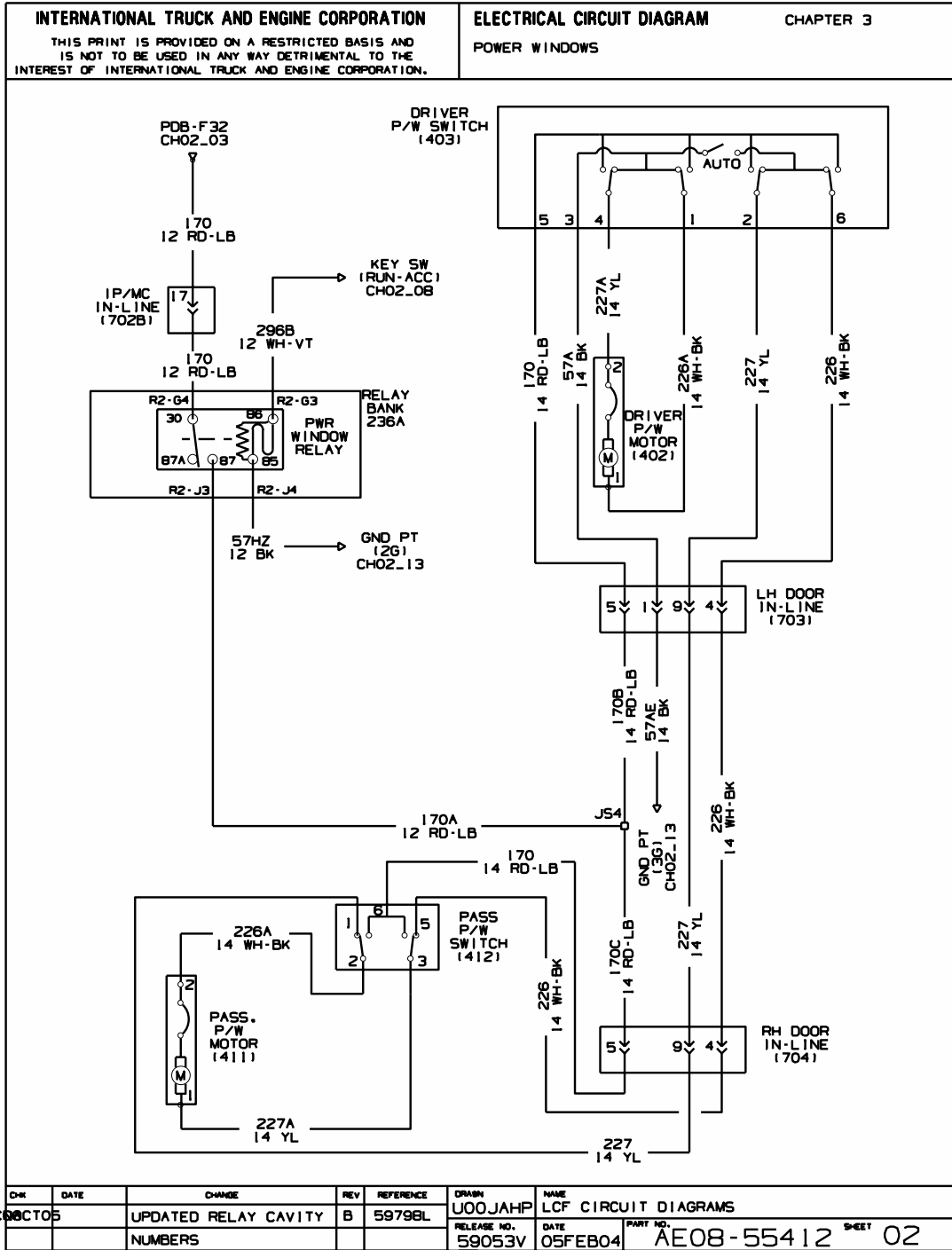


Figure 29 Power Windows

3.3. POWER DOORS, P. 3

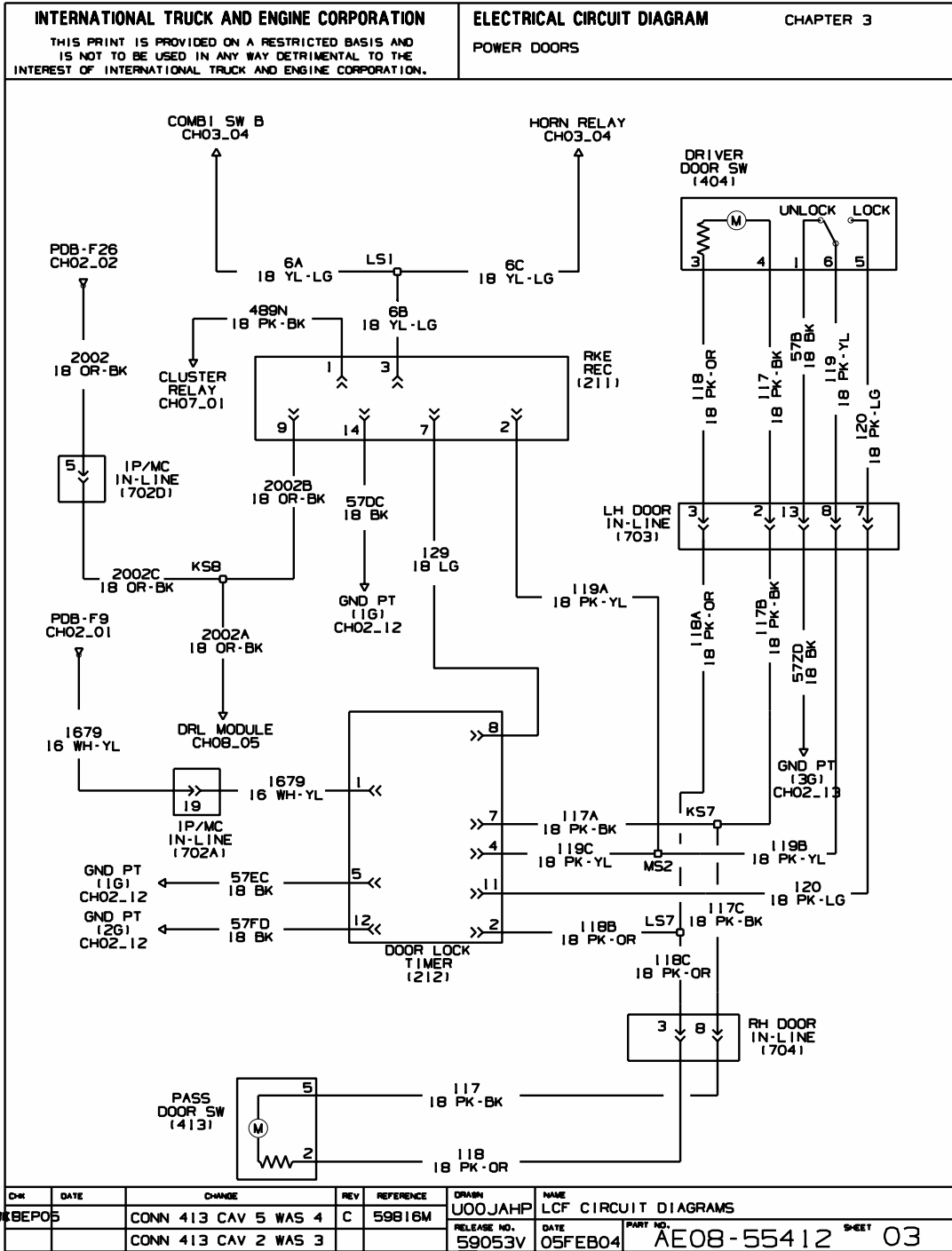


Figure 30 Power Doors

3.4. HORN, P. 4

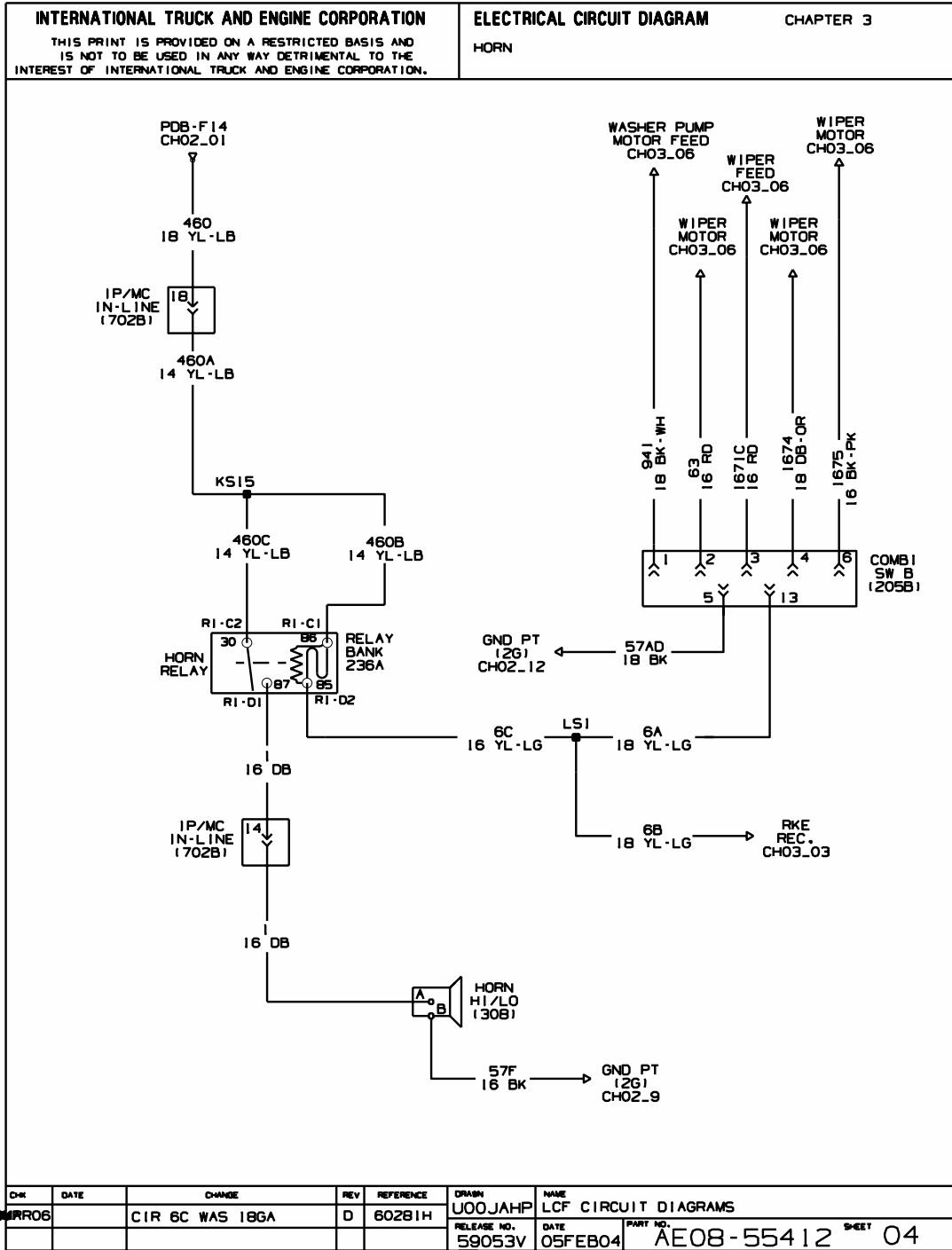


Figure 31 Horn

3.5. RADIO, P. 5

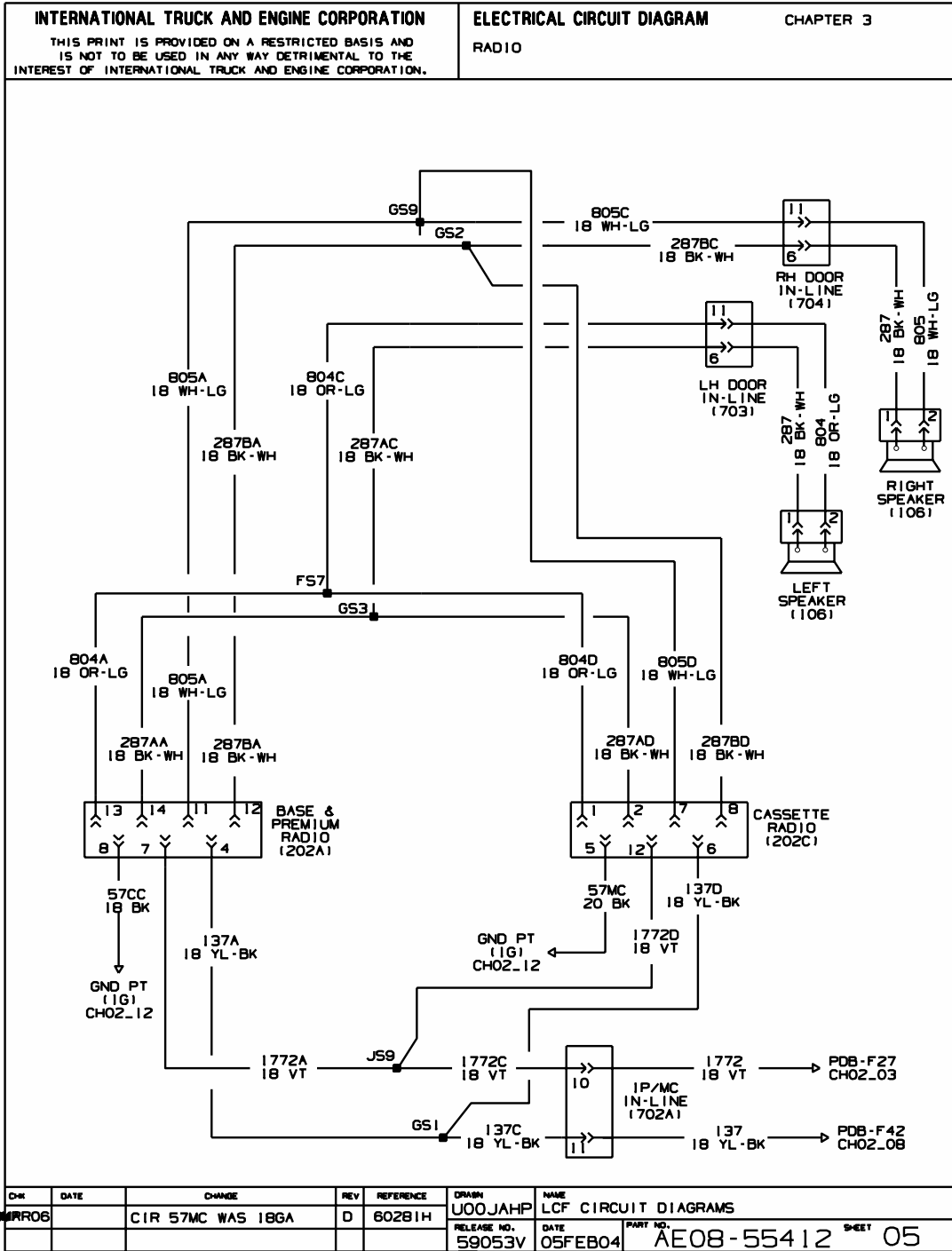


Figure 32 Radio

3.6. WINDSHIELD WIPER AND WASHER PUMP, P. 6

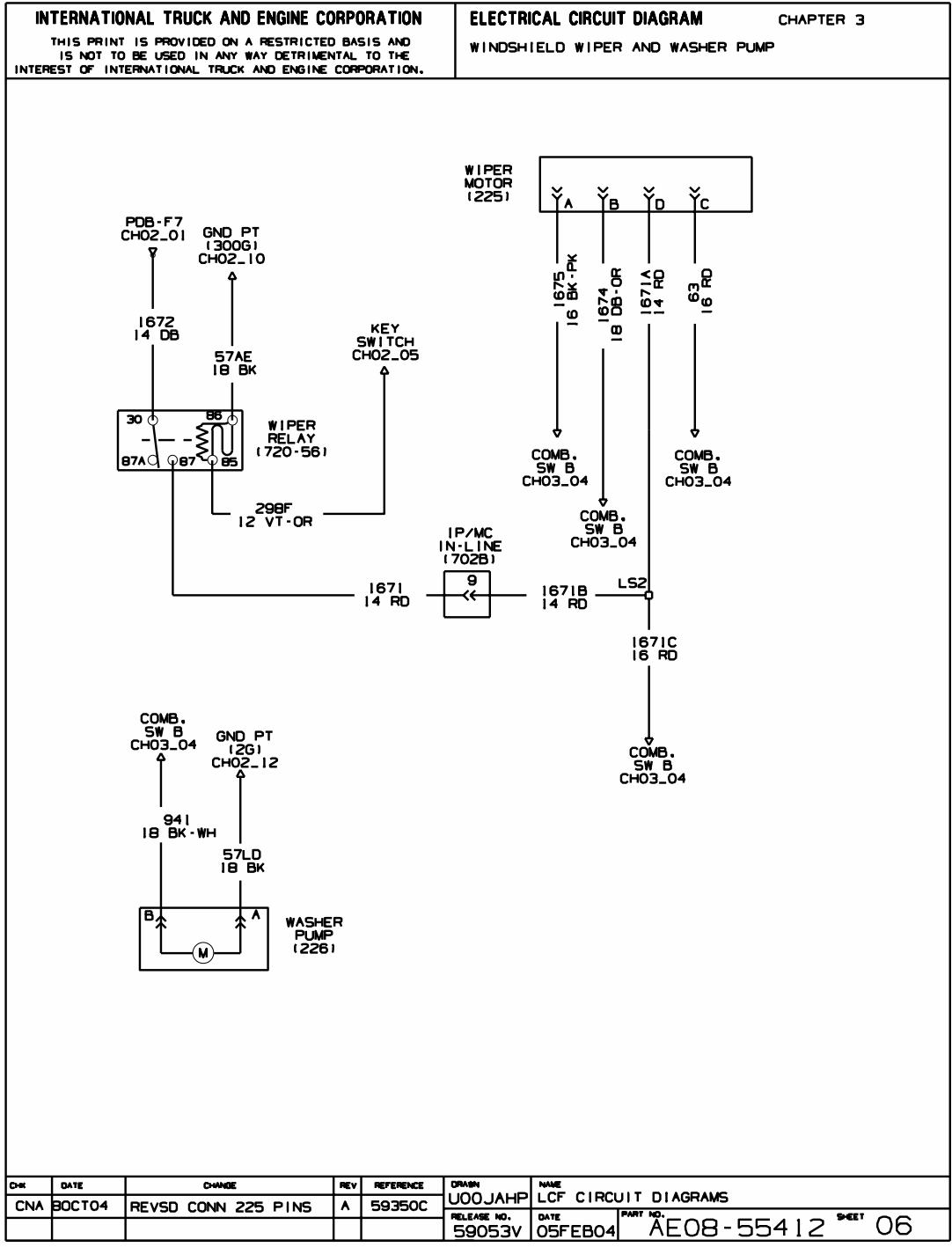


Figure 33 Windshield Wiper and Washer Pump

3.7. DOOR AJAR SWITCH AND DOME LIGHT, P. 7

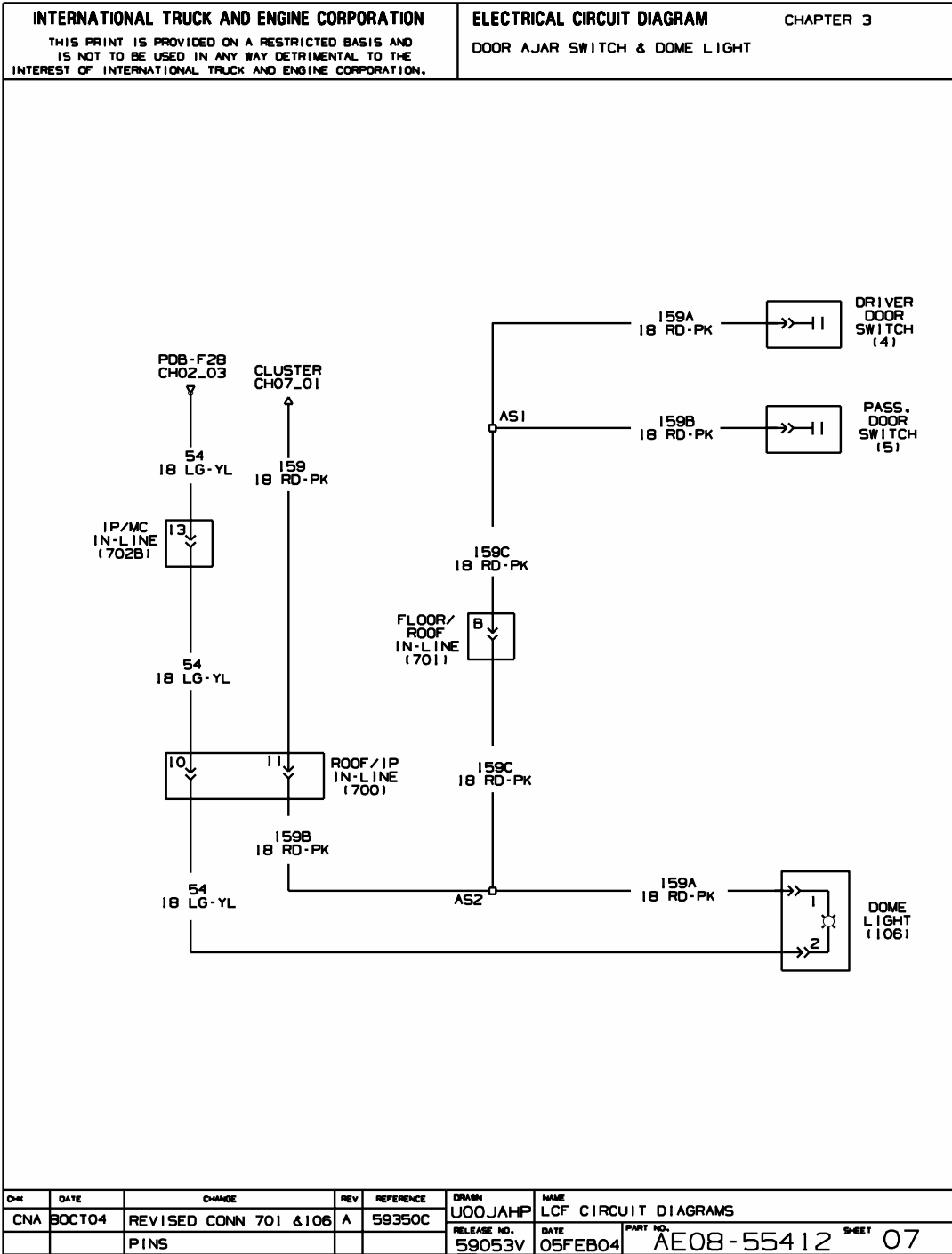


Figure 34 Door Ajar Switch and Dome Light



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

### 4.1. CHARGING AND CRANKING — INTERNATIONAL V6 ENGINE, P. 1

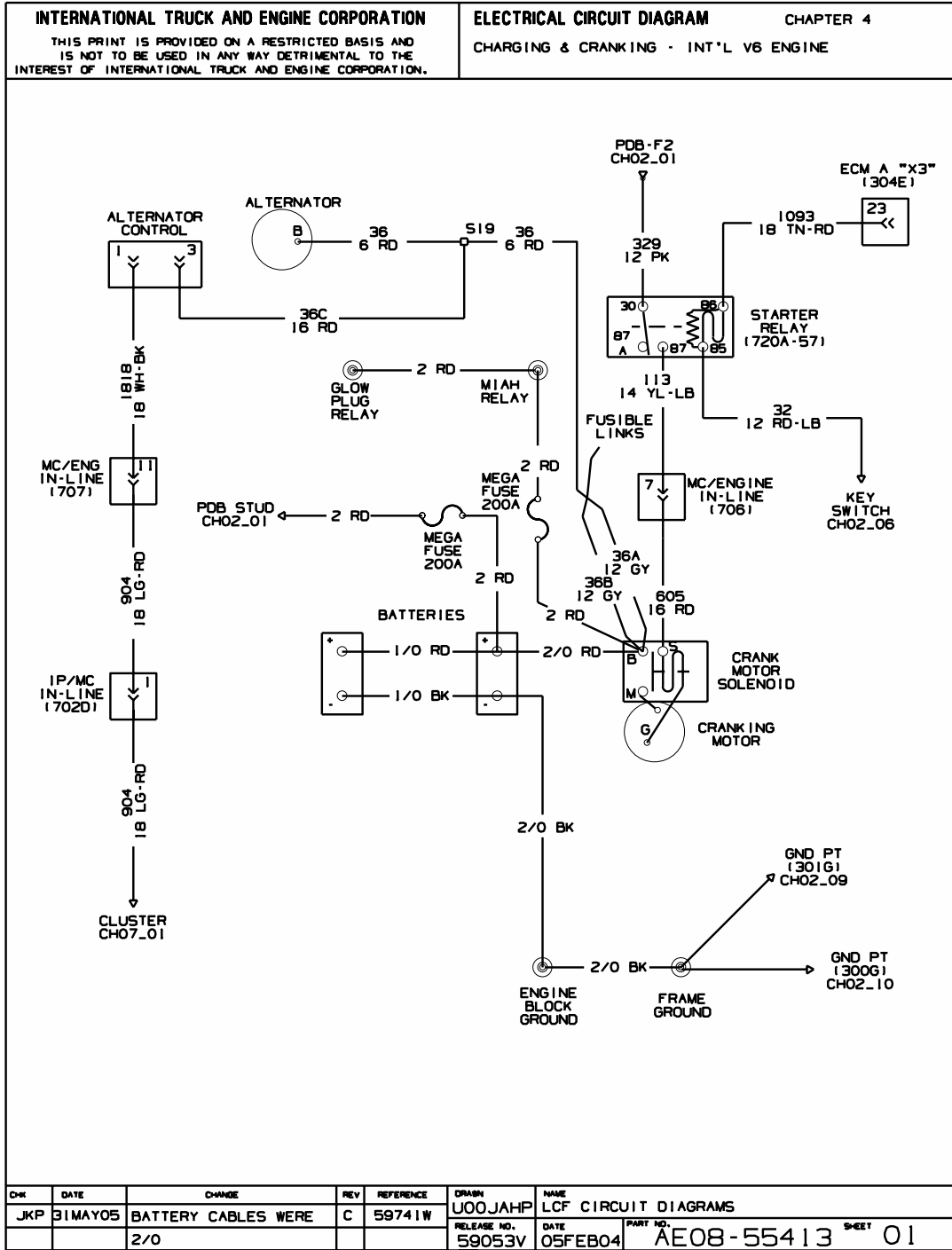


Figure 35 Charging and Cranking — International V6 Engine

5. FANS AND ENGINE ACCESSORIES (CHAPTER 5)

5.1. HFCM MODULE — INTERNATIONAL V6 ENGINE, P. 1

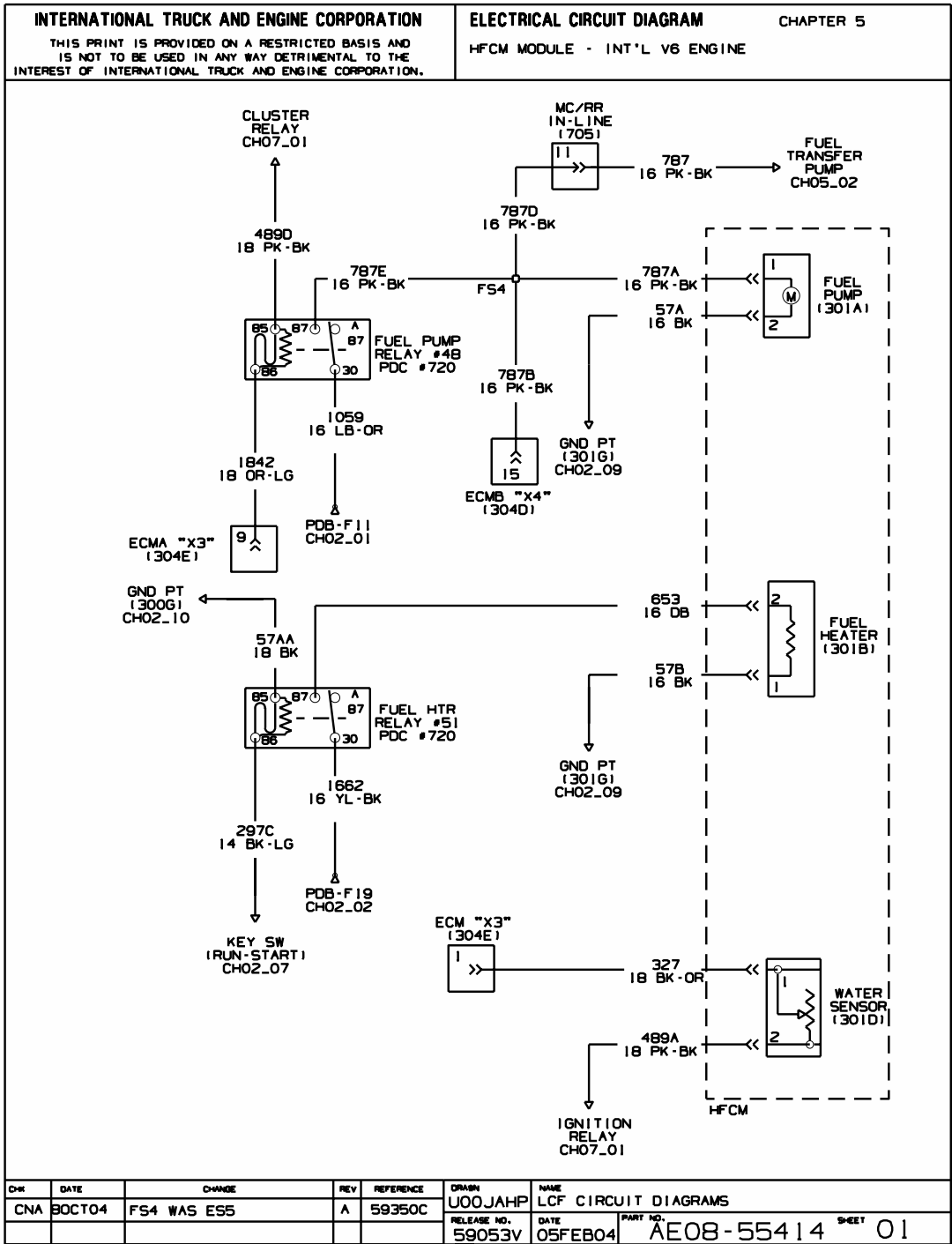


Figure 36 HFCM Module — International V6 Engine

5.2. FUEL TANKS — DUAL TANK, P. 2

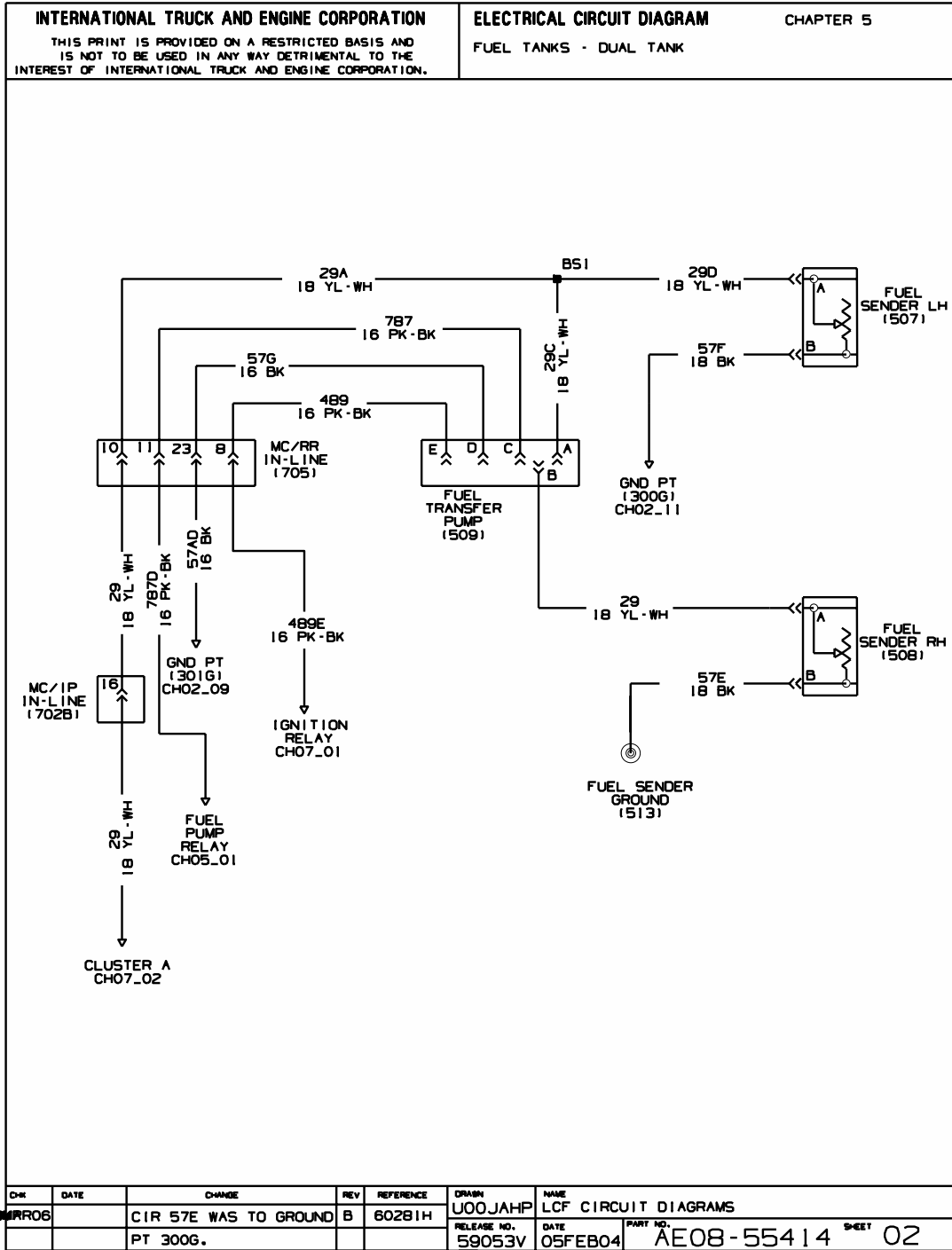


Figure 37 Fuel Tanks — Dual Tank

5.3. FUEL TANKS — LEFT AND AFT TANK, P. 3

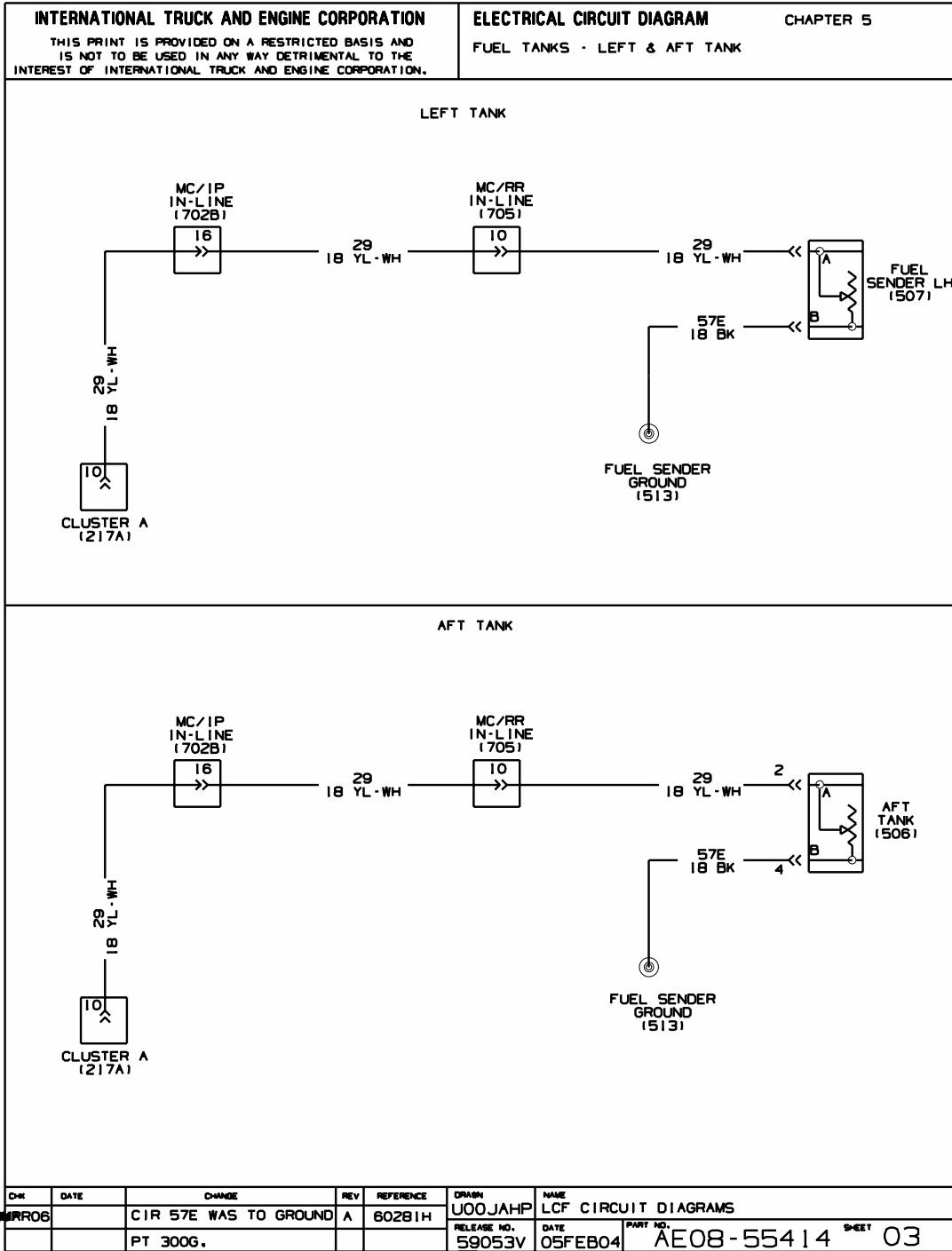


Figure 38 Fuel Tanks — Left and Aft Tank

## 6. ELECTRONIC ENGINES (CHAPTER 6)

### 6.1. INTERNATIONAL V6 POWER AND GROUND SYSTEM, P. 1

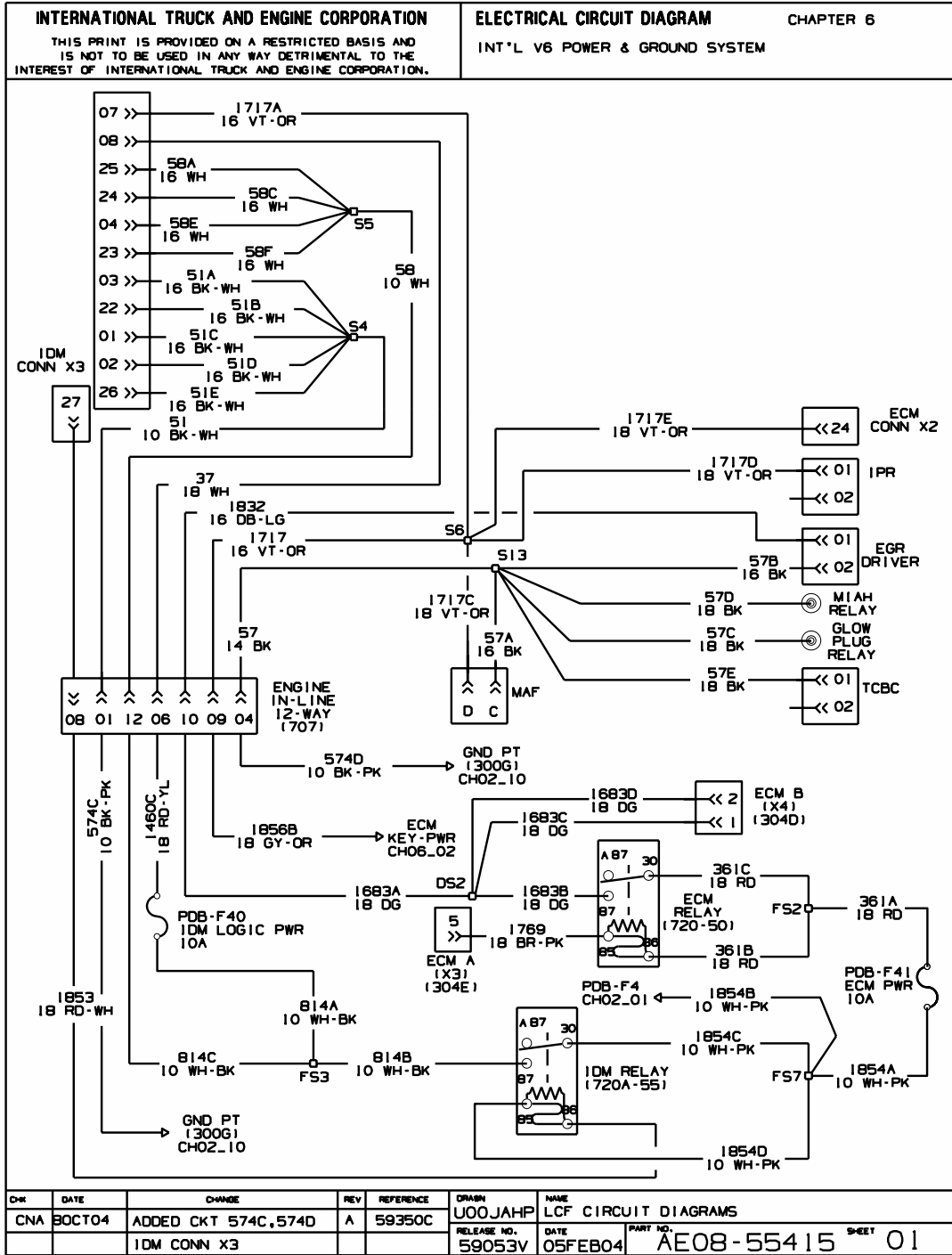


Figure 39 International V6 Power and Ground System

6.2. INTERNATIONAL V6 CRUISE CONTROL, P. 2

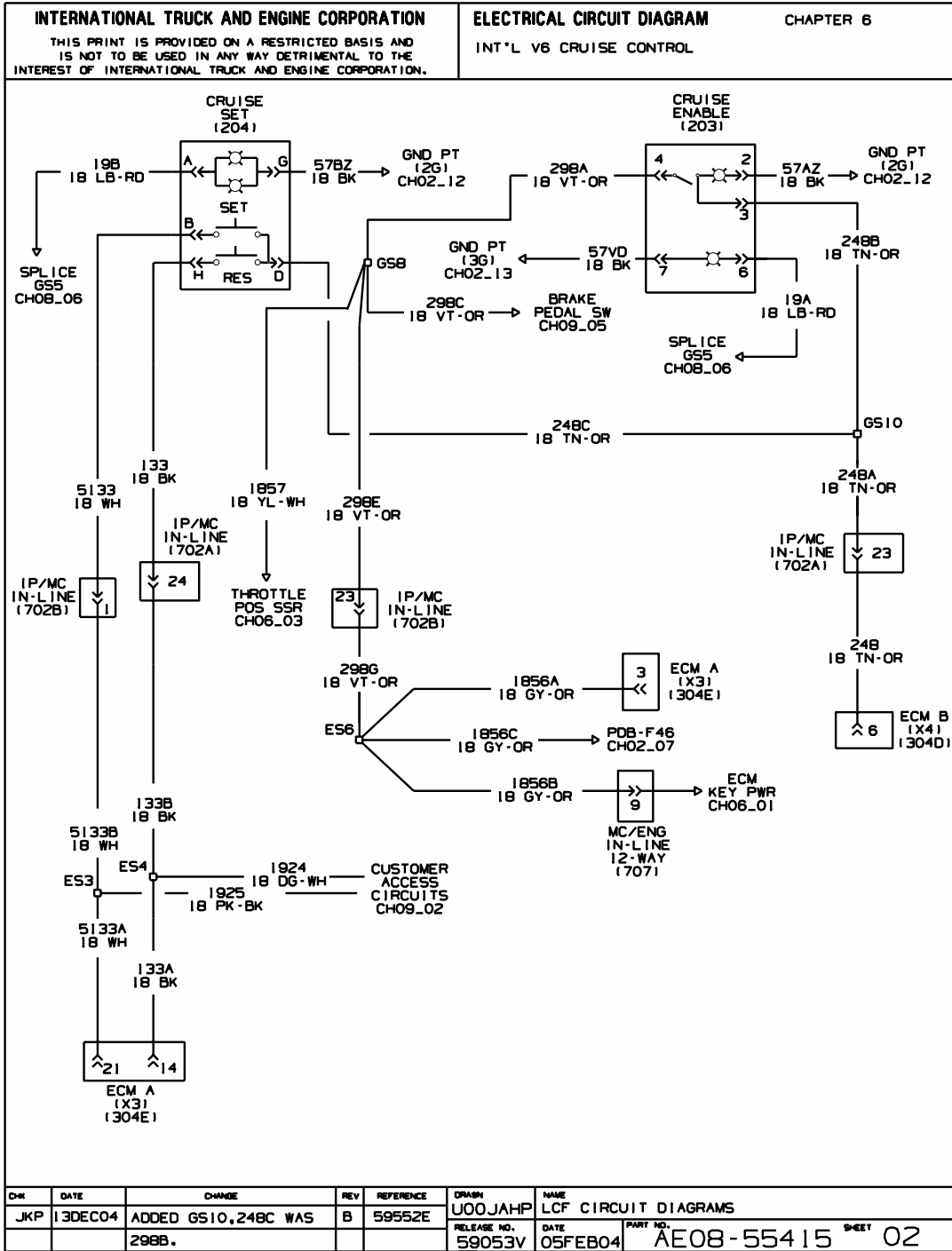


Figure 40 International V6 Cruise Control

6.3. INTERNATIONAL V6 ACCELERATOR PEDAL, P. 3

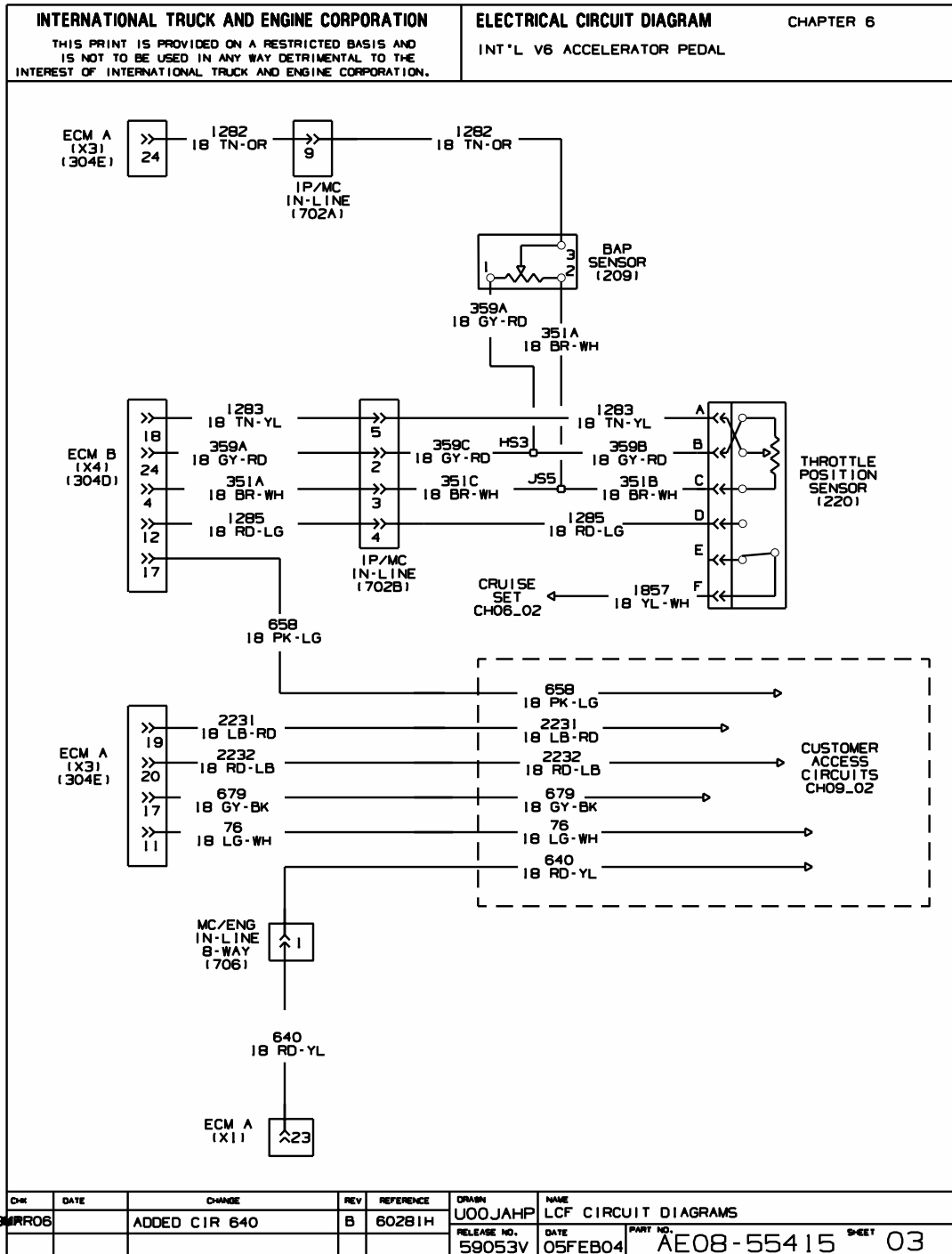


Figure 41 International V6 Accelerator Pedal

7. CLUSTERS AND WARNING LIGHTS (CHAPTER 7)

7.1. CLUSTER CONNECTOR A, P. 1

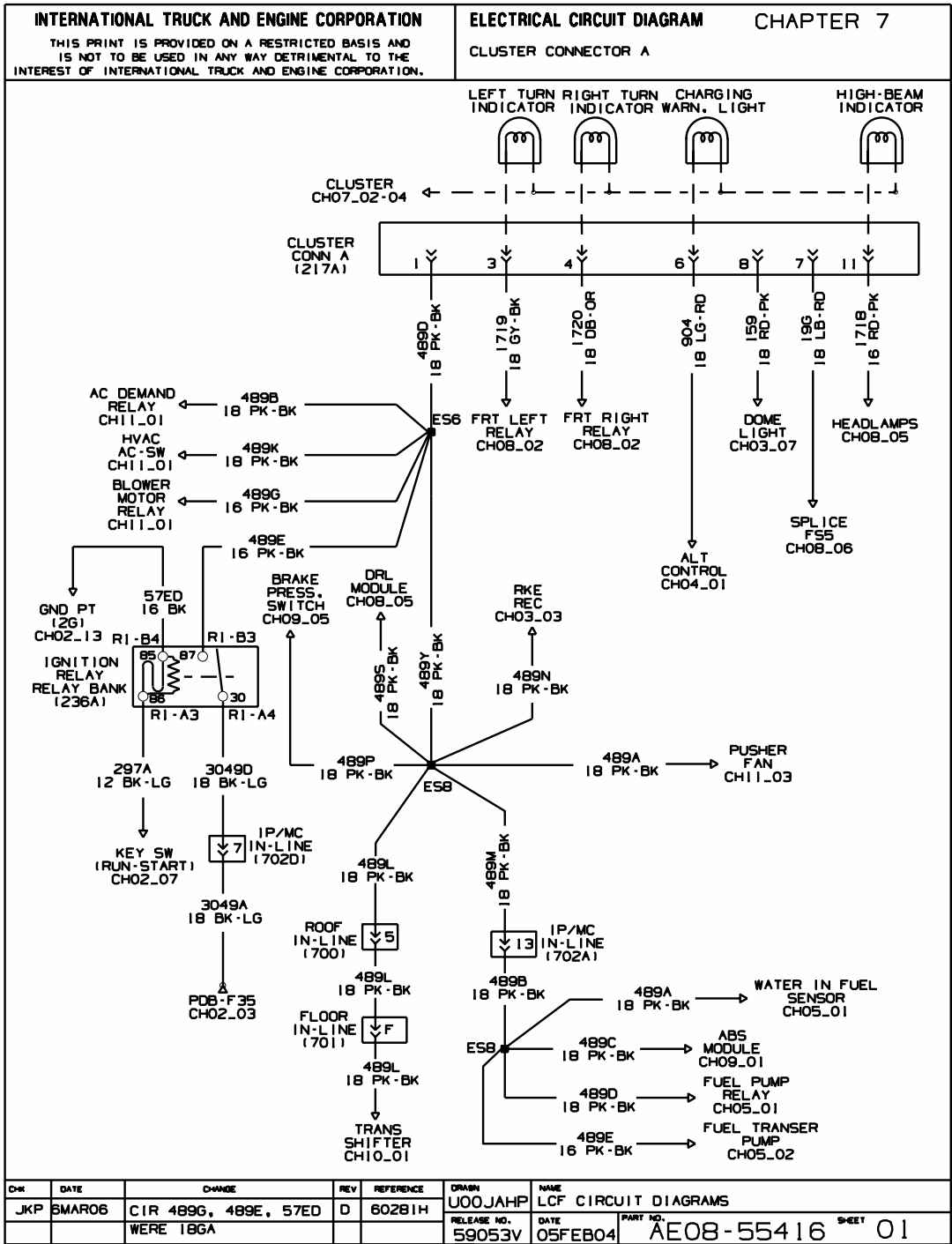


Figure 42 Cluster Connector A



7.2. CLUSTER CONNECTOR A, P. 2

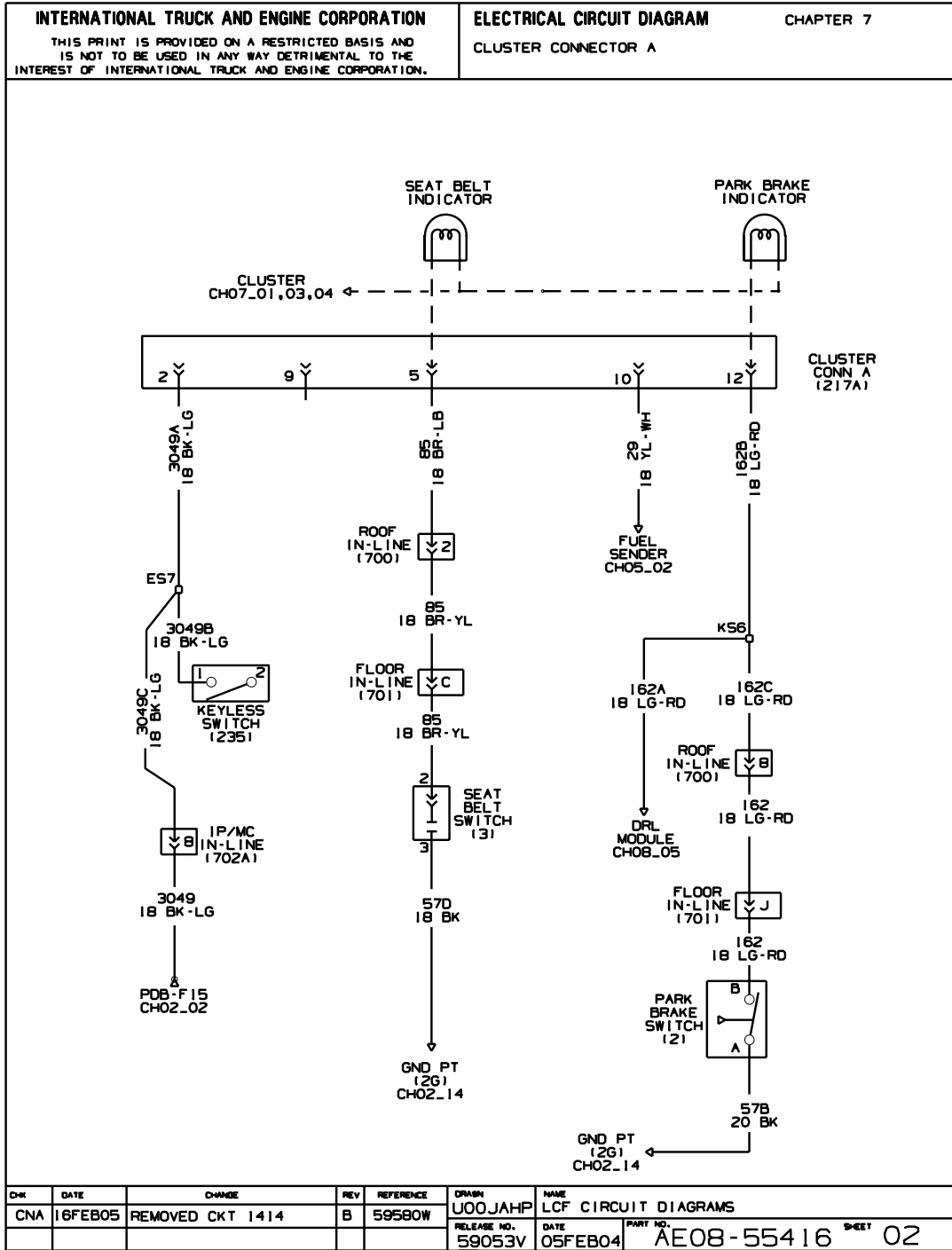


Figure 43 Cluster Connector A

7.3. CLUSTER CONNECTOR B, P. 3

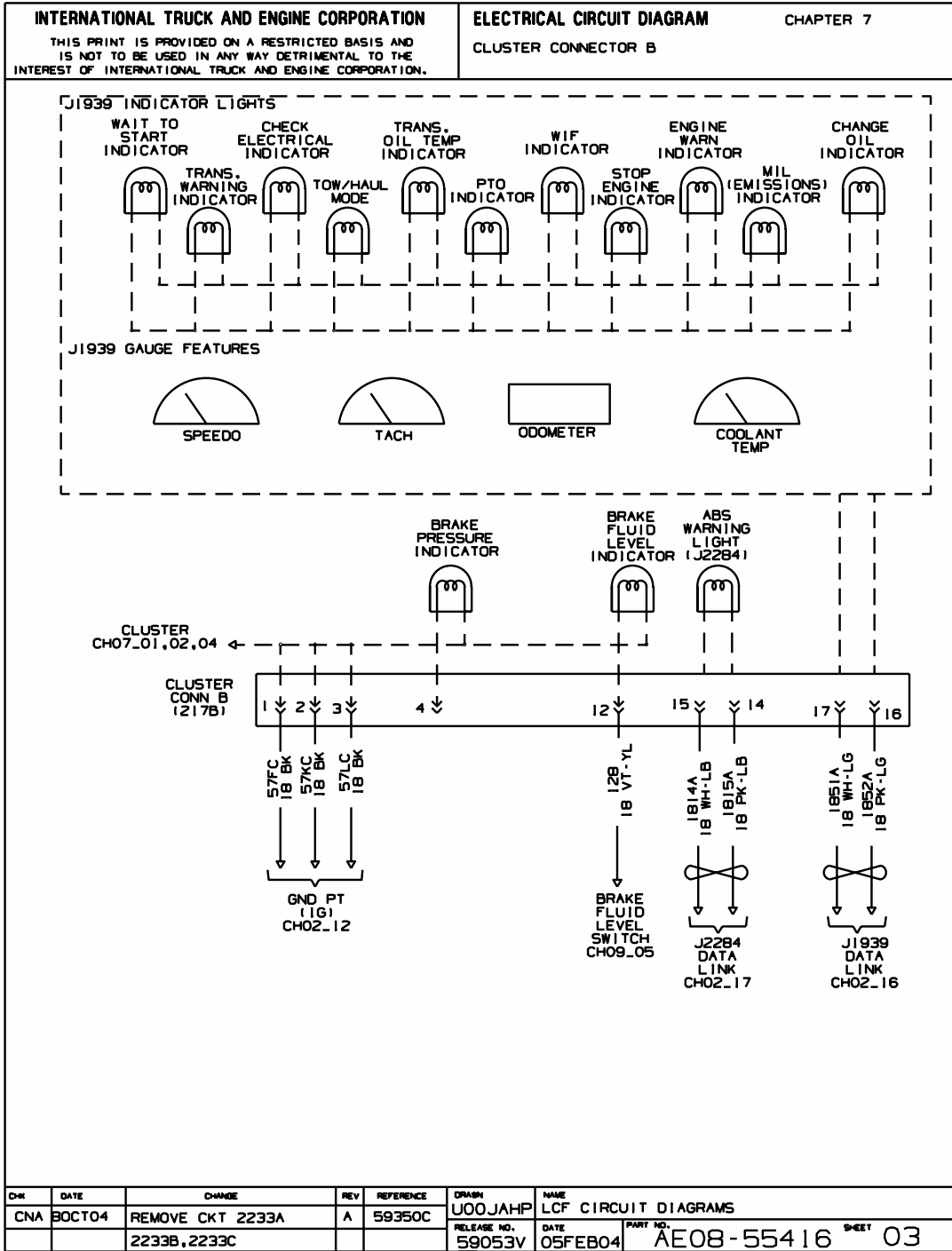


Figure 44 Cluster Connector B

7.4. CLUSTER CONNECTOR B, P. 4

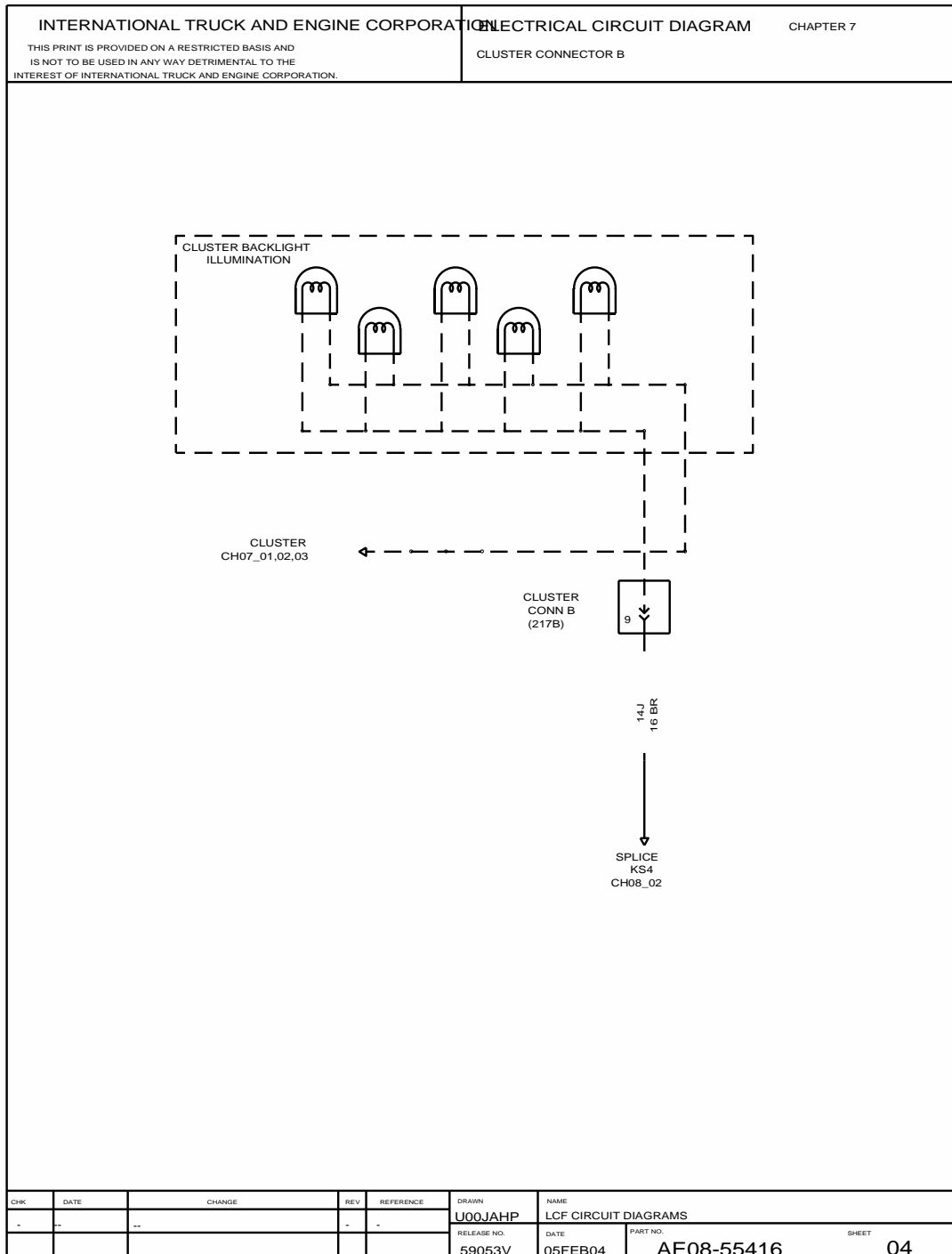


Figure 45 Cluster Connector B

8. LIGHTS (CHAPTER 8)

8.1. MAIN LIGHT SWITCH, HAZARD SWITCH, P. 1

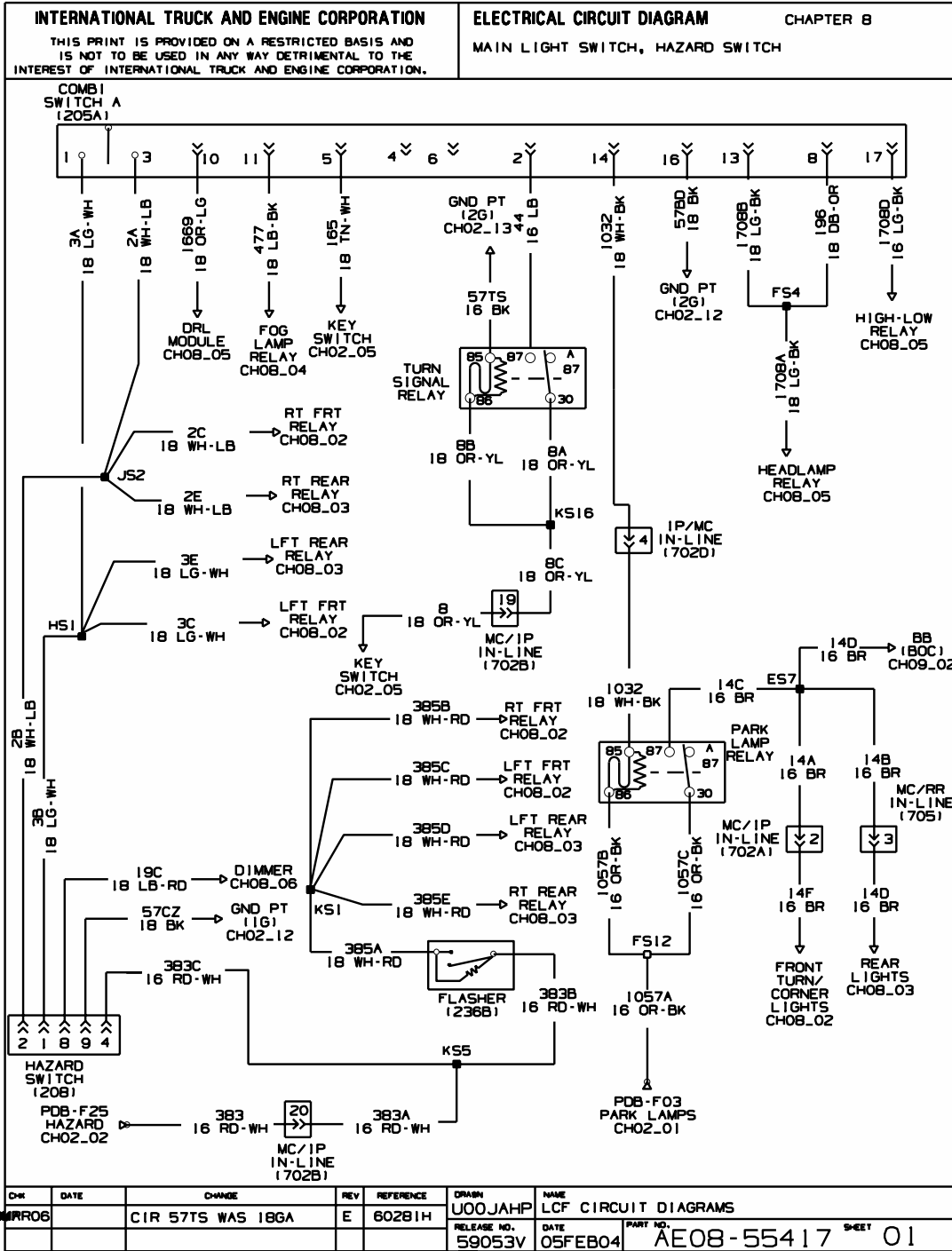


Figure 46 Main Light Switch, Hazard Switch

8.2. MARKER, FRONT PARK AND TURN LIGHTS, P. 2

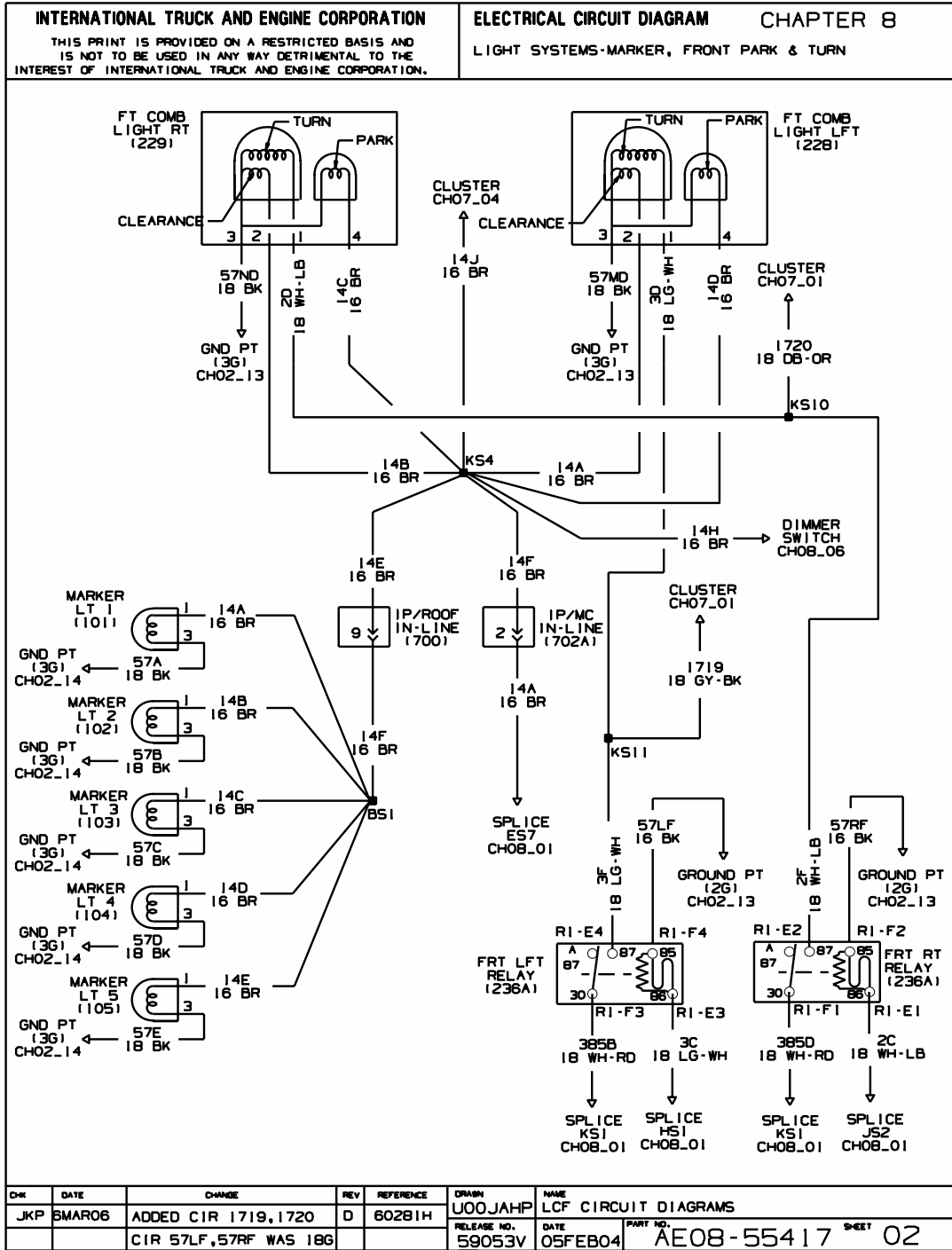


Figure 47 Marker, Front Park and Turn Lights

8.3. REAR TAIL, TURN, STOP AND BACKUP LIGHTS, P. 3

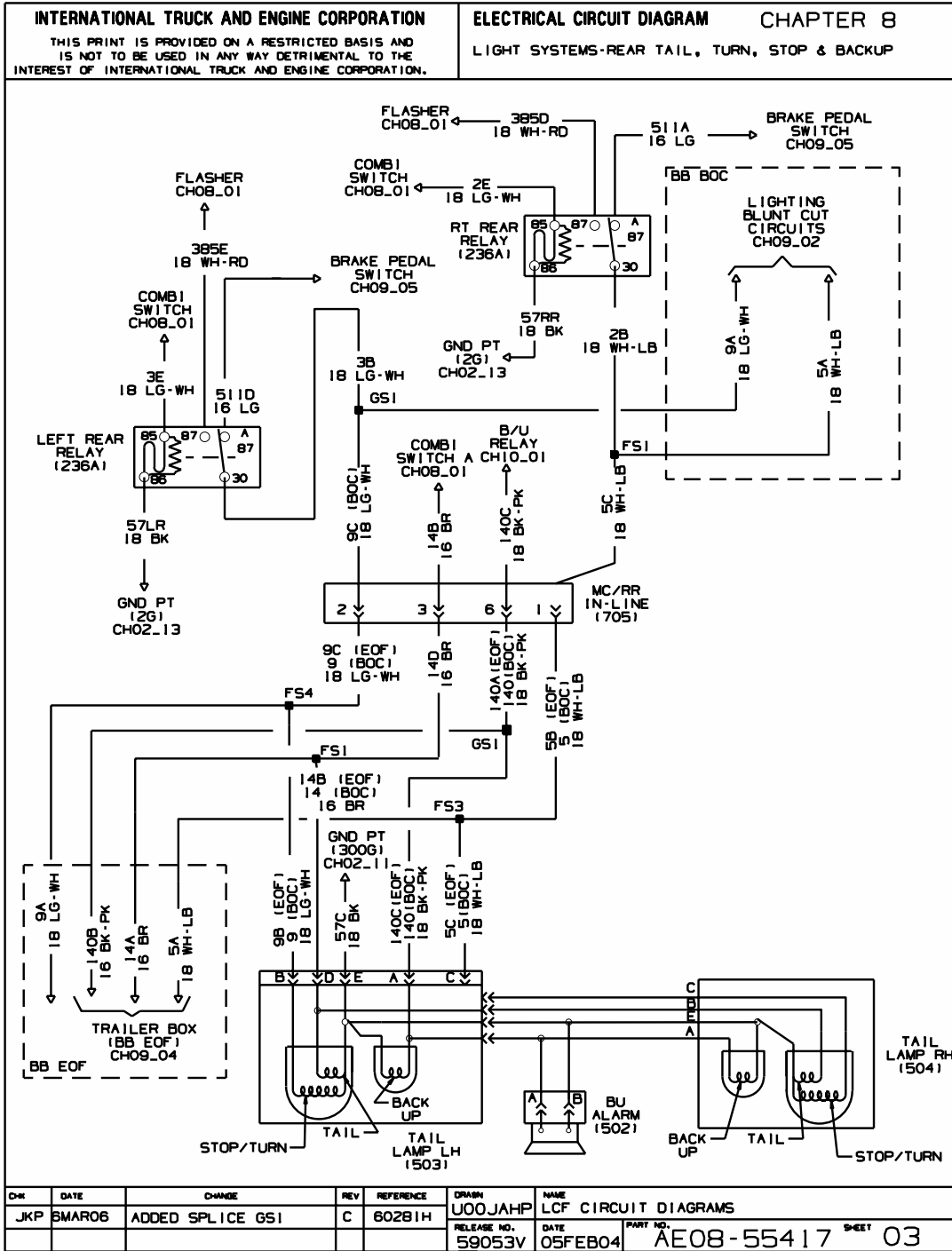


Figure 48 Rear Tail, Turn, Stop and Backup Lights

8.4. FOG LIGHTS, P. 4

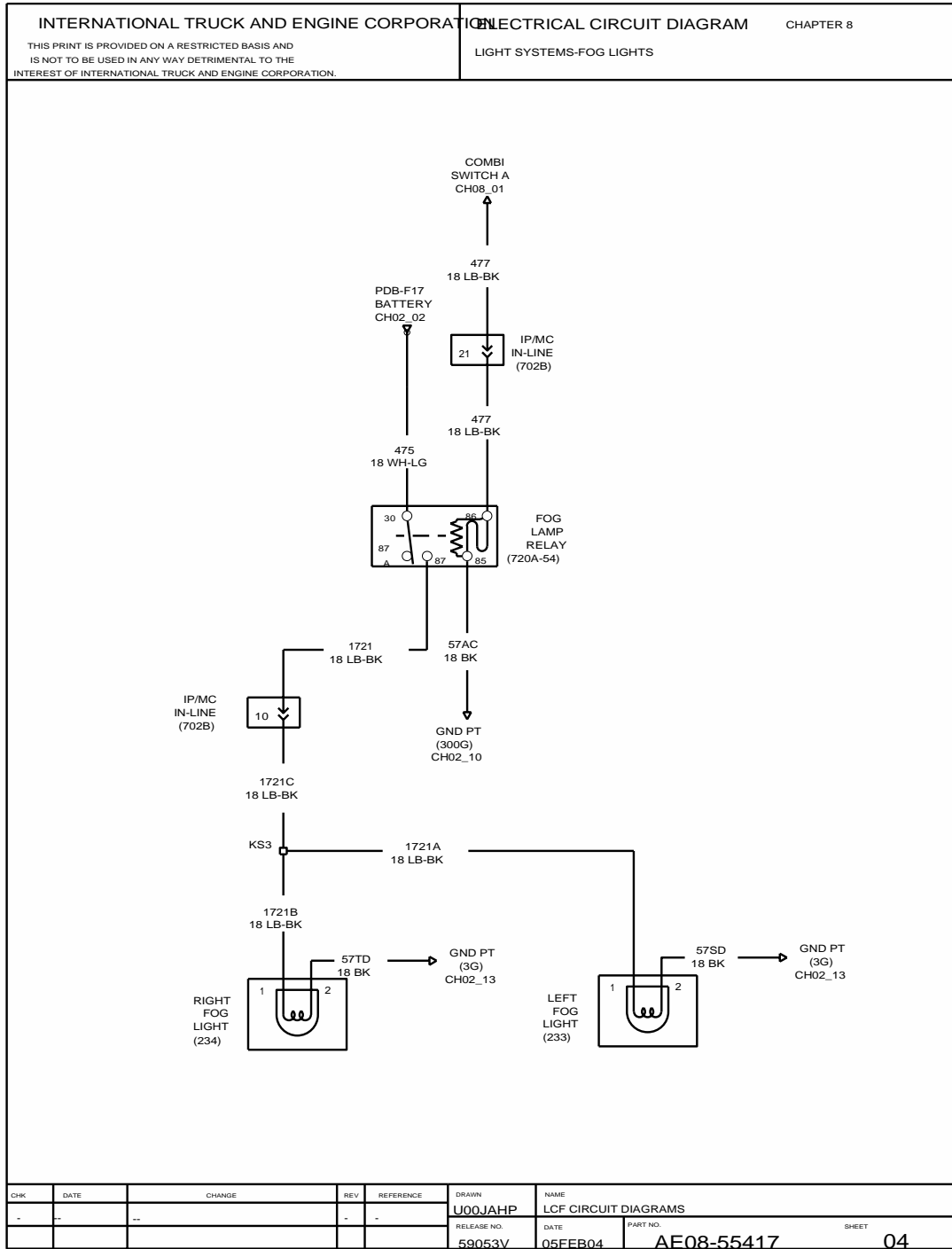


Figure 49 Fog Lights

8.5. HEADLIGHTS, P. 5

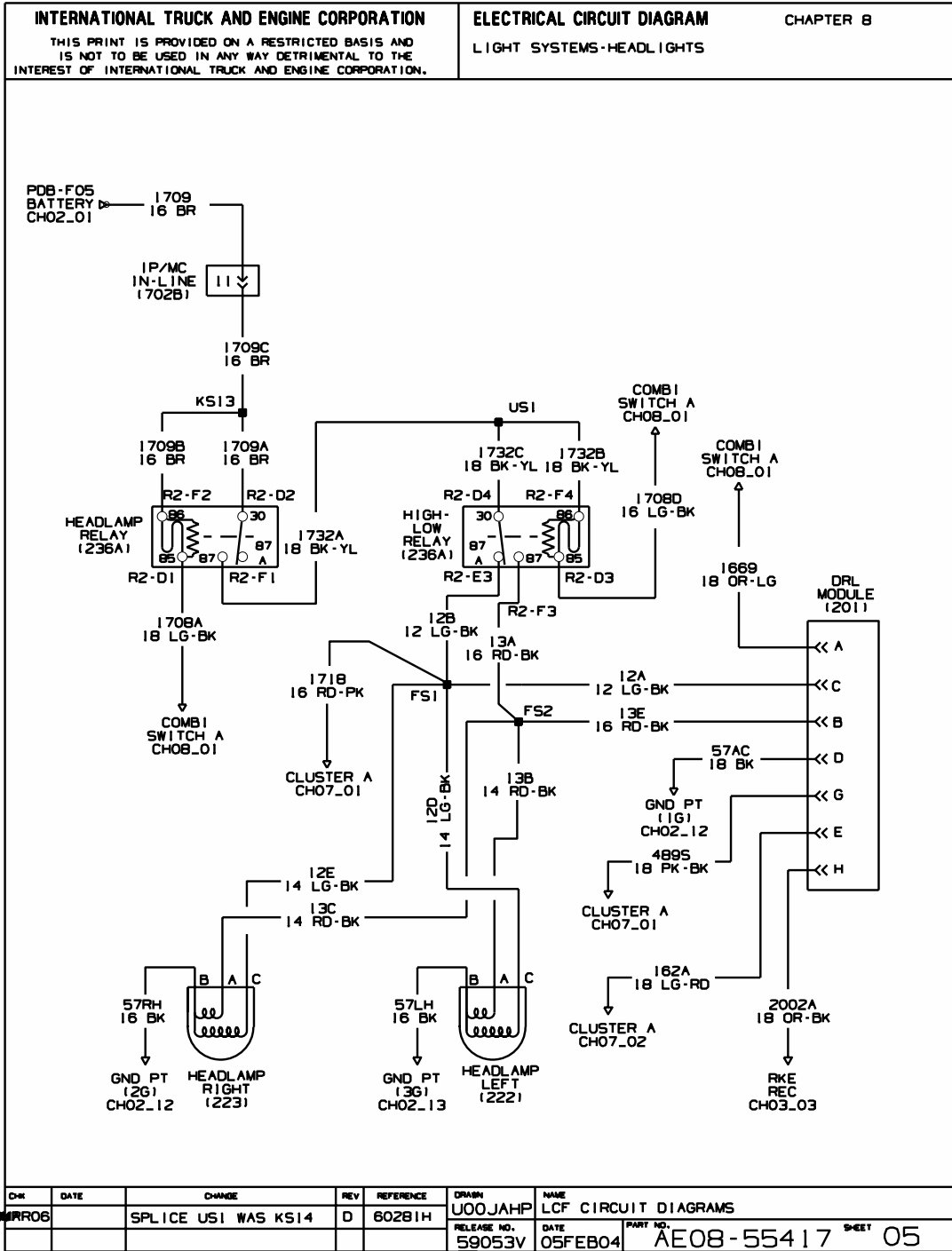


Figure 50 Headlights



8.6. PANEL LIGHTS, P. 6

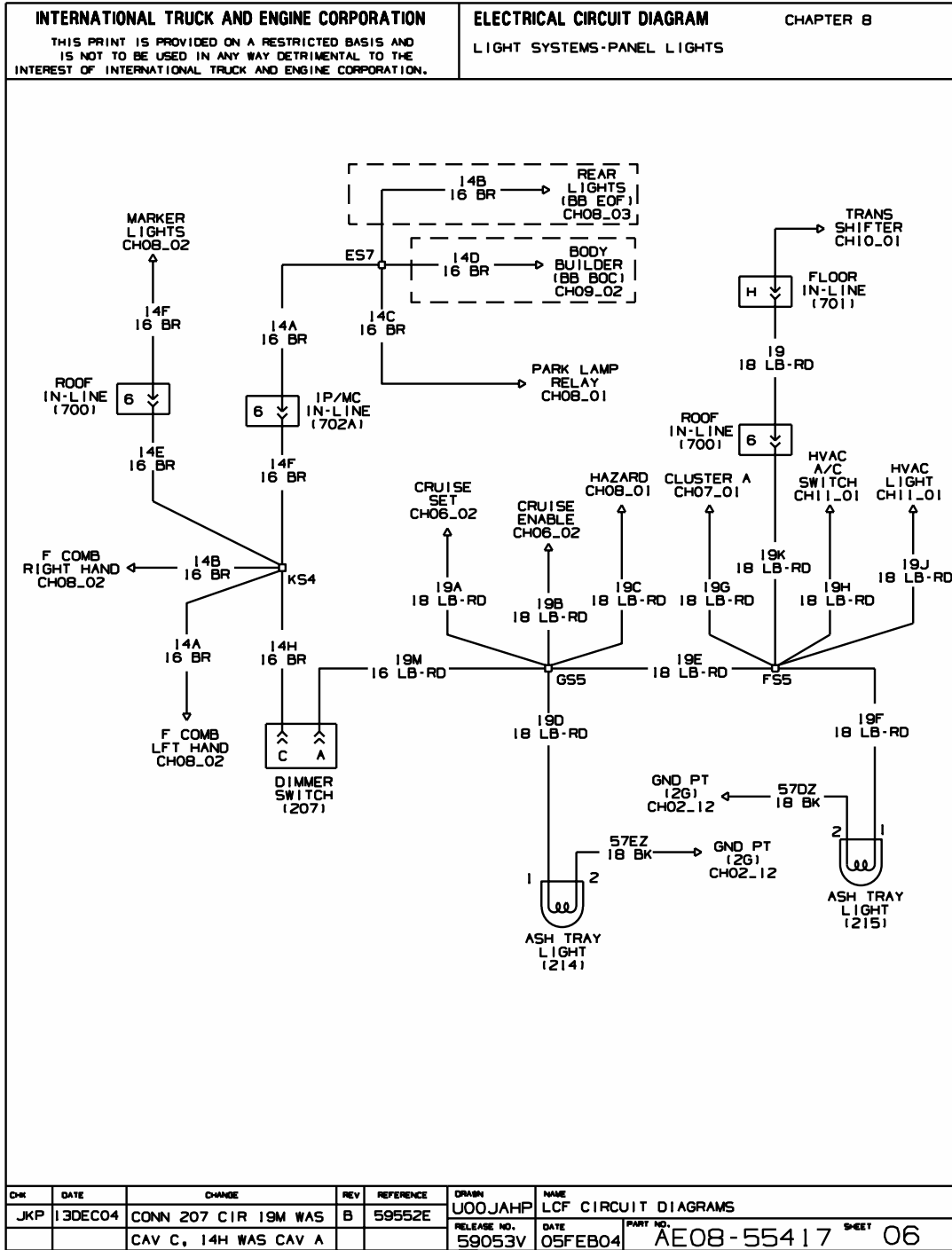


Figure 51 Panel Lights

9. CHASSIS ACCESSORIES (CHAPTER 9)

9.1. ANTILOCK BRAKE SYSTEM (ABS), P. 1

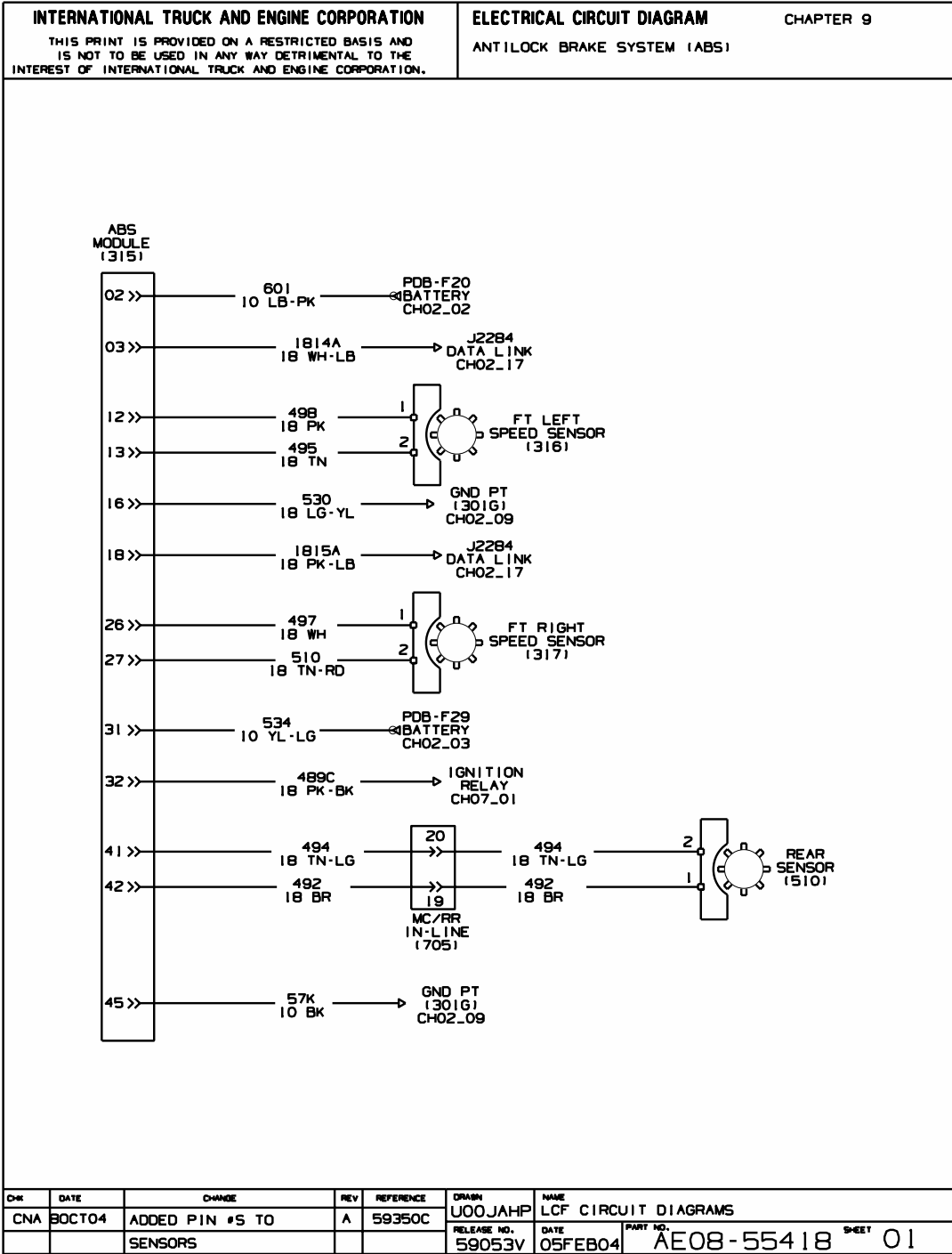


Figure 52 Antilock Brake System (ABS)

9.2. BODY BUILDER CUSTOMER ACCESS CIRCUITS (BOC), P. 2

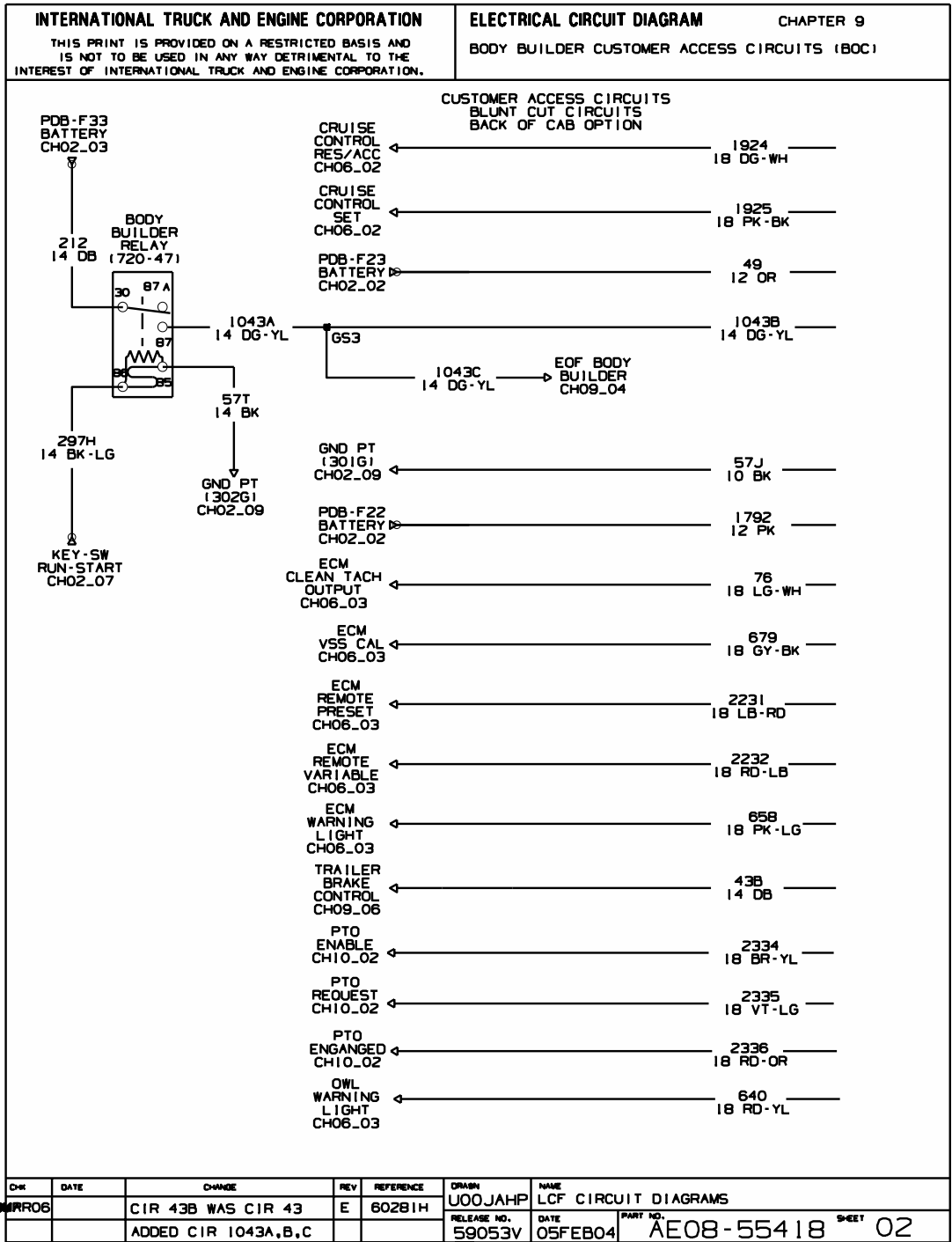


Figure 53 Body Builder Customer Access Circuits (BOC)

9.3. BODY BUILDER LIGHTING CIRCUITS (BOC), P. 3

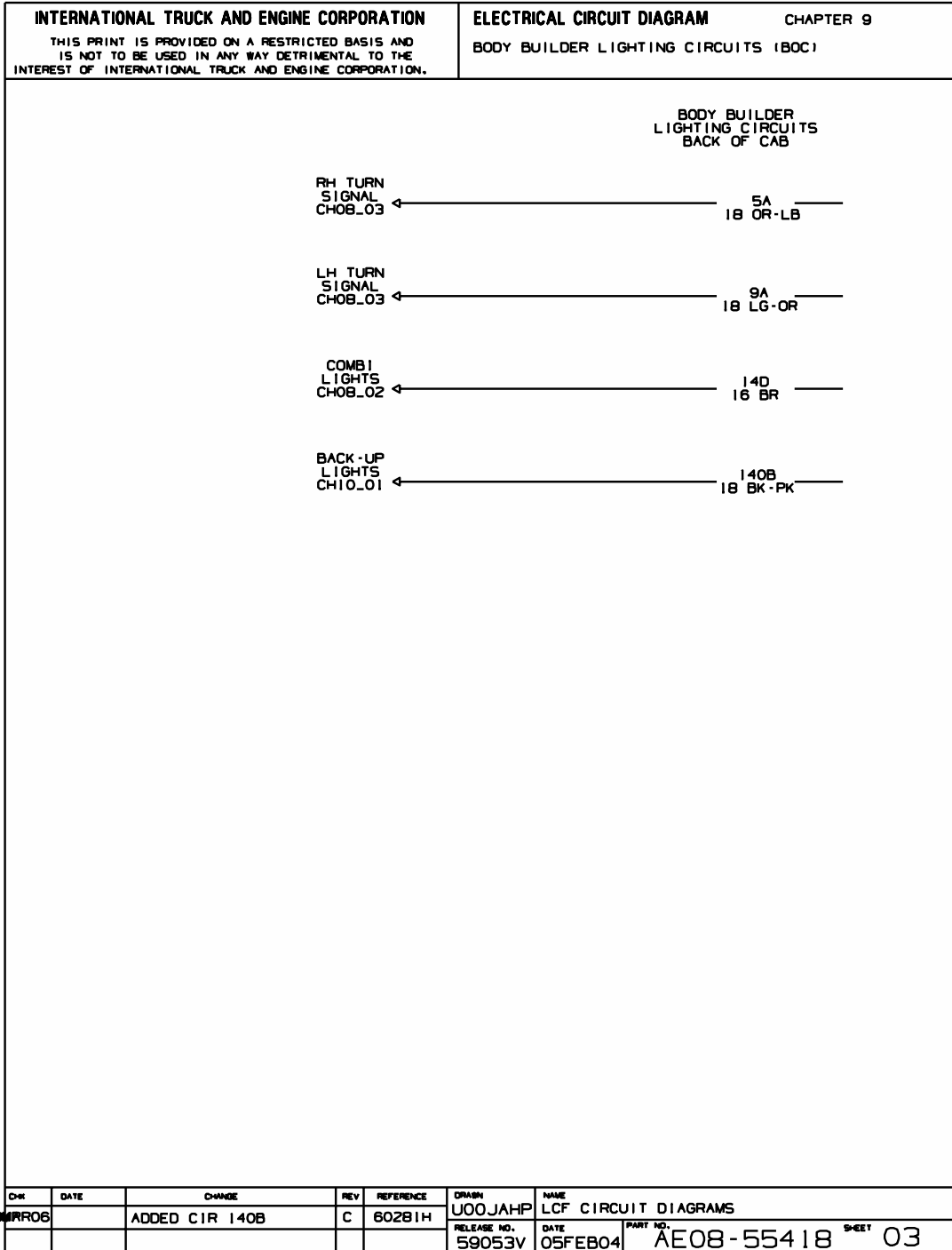


Figure 54 Body Builder Lighting Circuits (BOC)

9.4. BODY BUILDER (EOF), P. 4

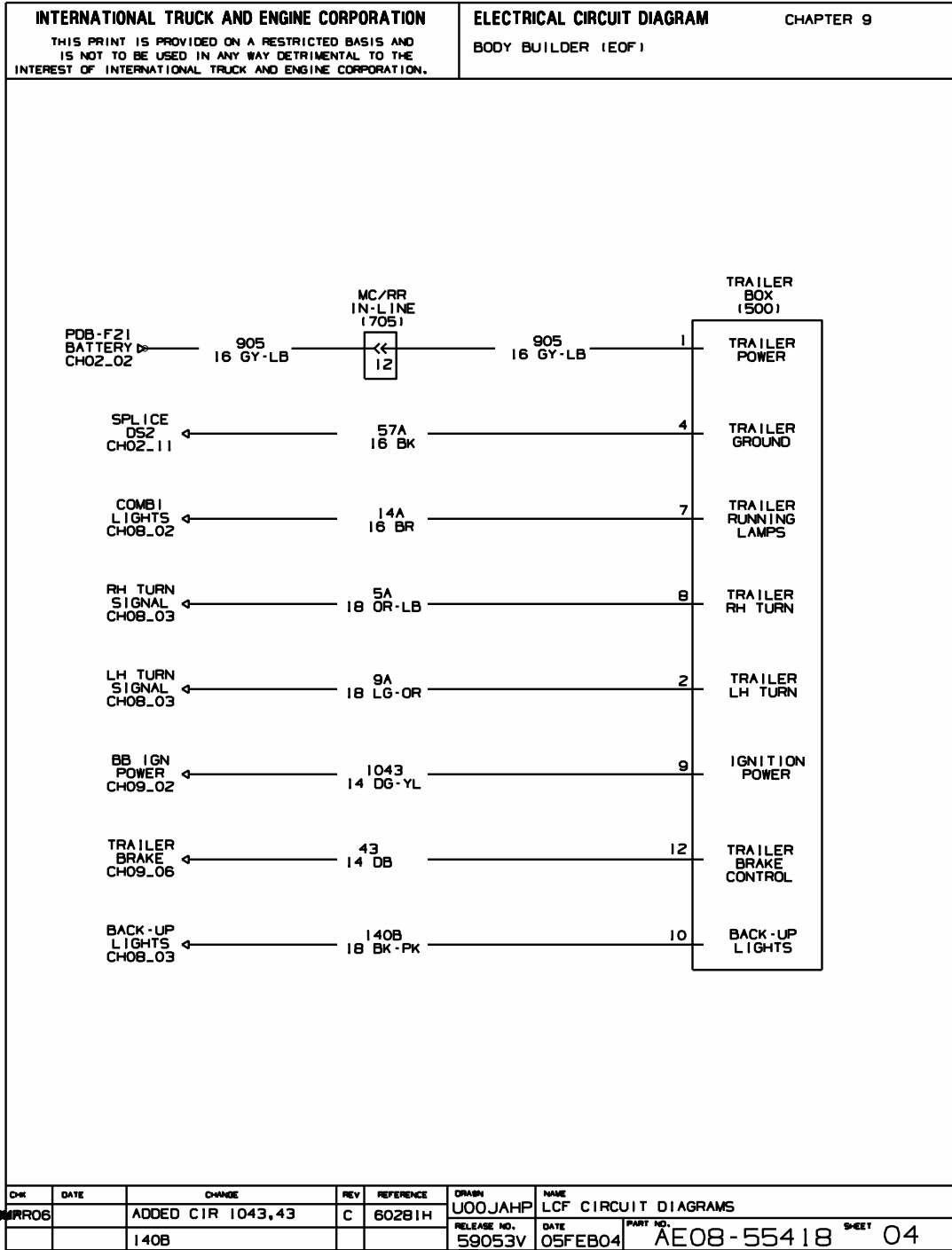


Figure 55 Body Builder (EOF)

9.5. BRAKE SYSTEMS: FLUID, PRESSURE AND PEDAL SWITCH, P. 5

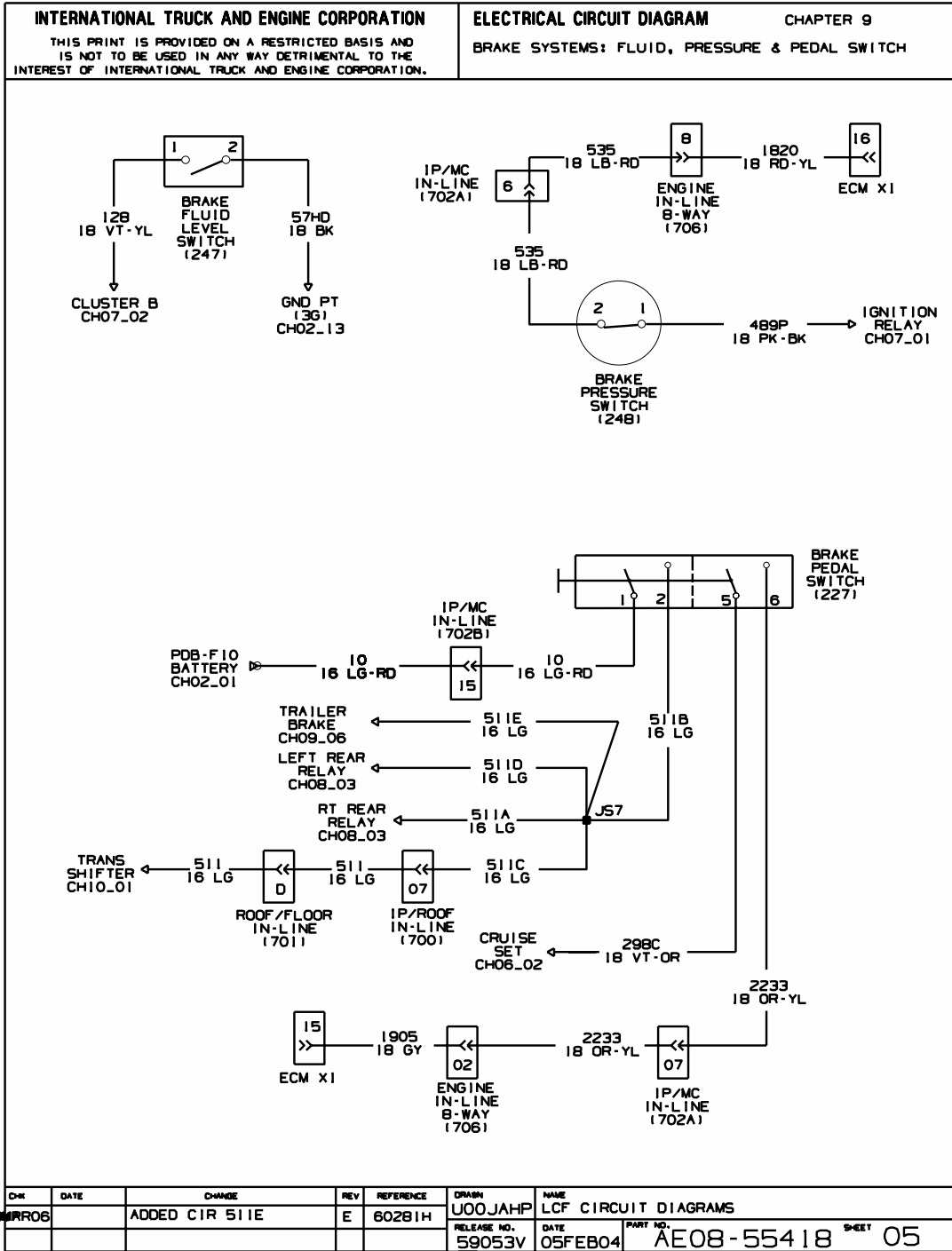


Figure 56 Brake Systems: Fluid, Pressure and Pedal Switch

9.6. BRAKE SYSTEMS: ELECTRIC TRAILER BRAKES, P. 6

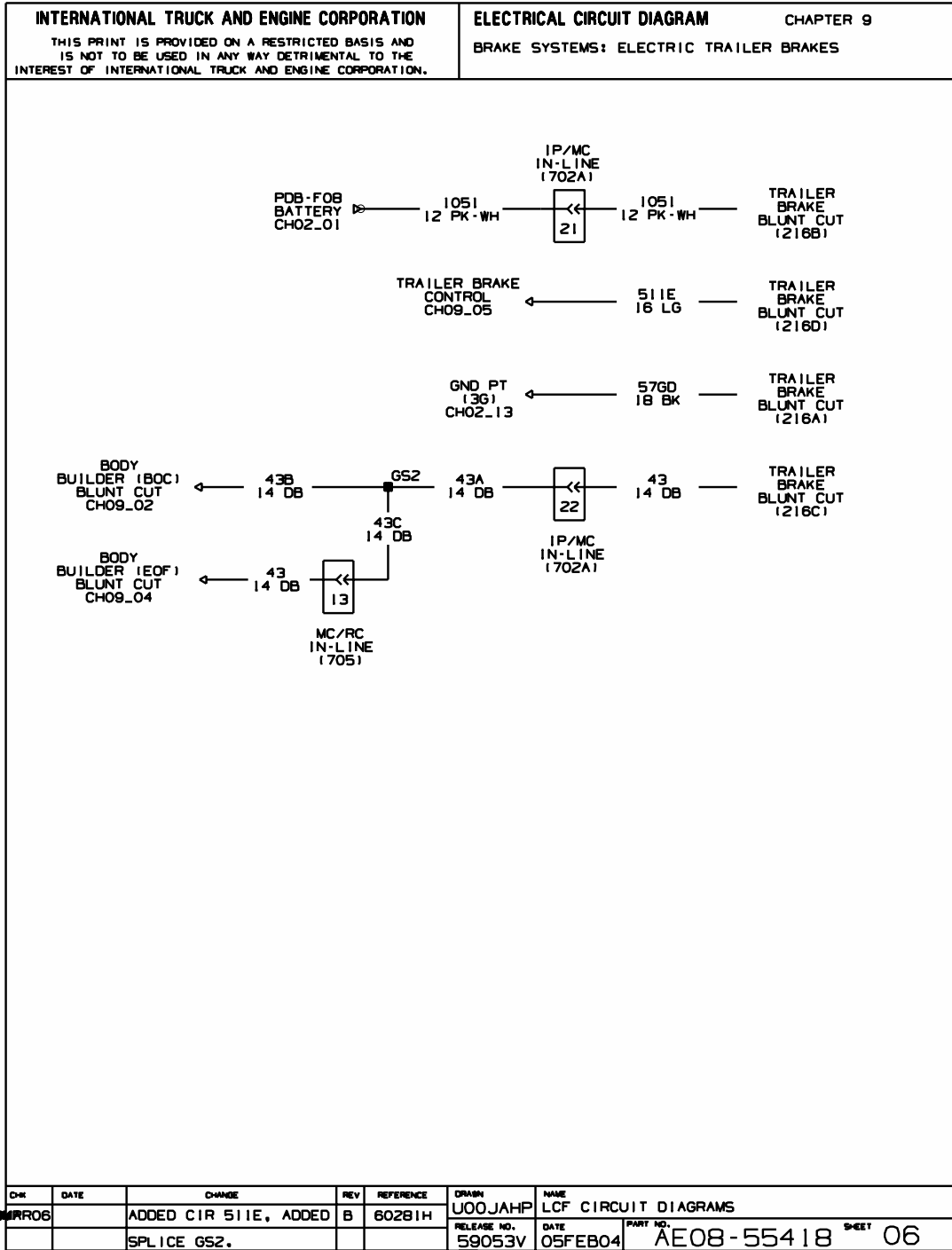


Figure 57 Brake Systems: Electric Trailer Brakes

10. TRANSMISSION (CHAPTER 10)

10.1. TRANSMISSION CONTROL MODULE CONNECTOR, P. 1

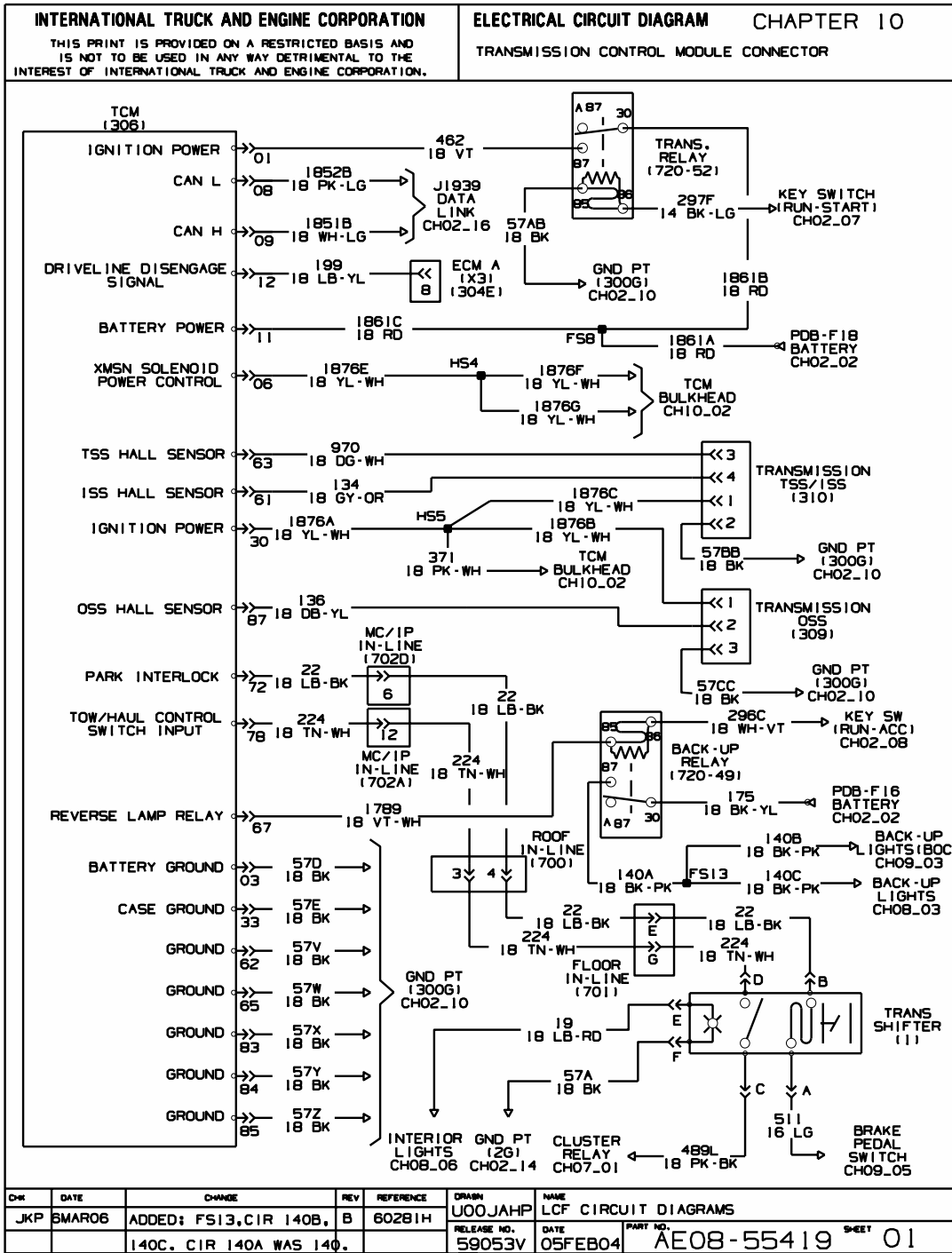


Figure 58 Transmission Control Module Connector



10.2. TCM TO TRANSMISSION BULKHEAD CONNECTOR, P. 2

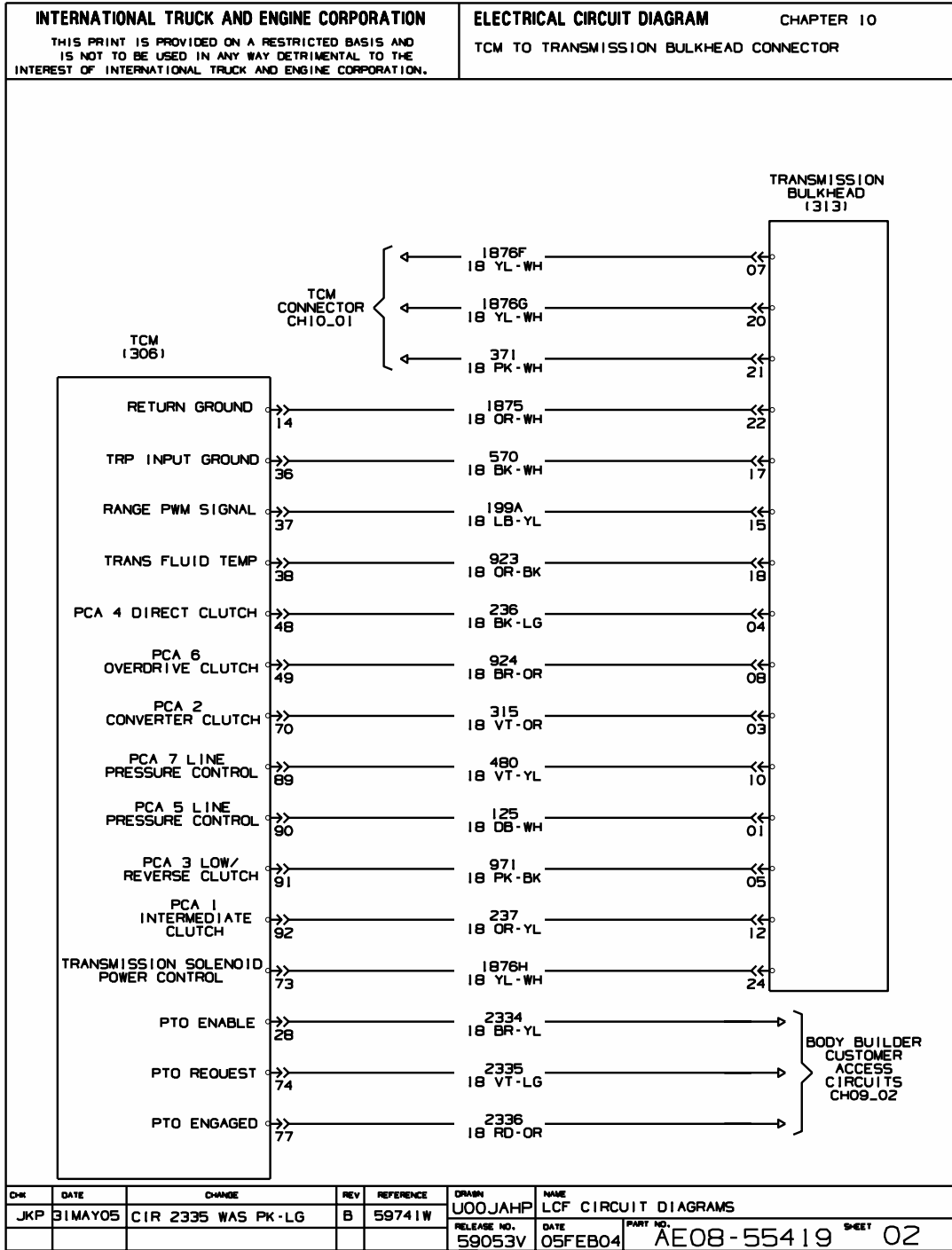


Figure 59 TCM to Transmission Bulkhead Connector

# 11. CLIMATE CONTROL (CHAPTER 11)

## 11.1. HVAC SYSTEM, P. 1

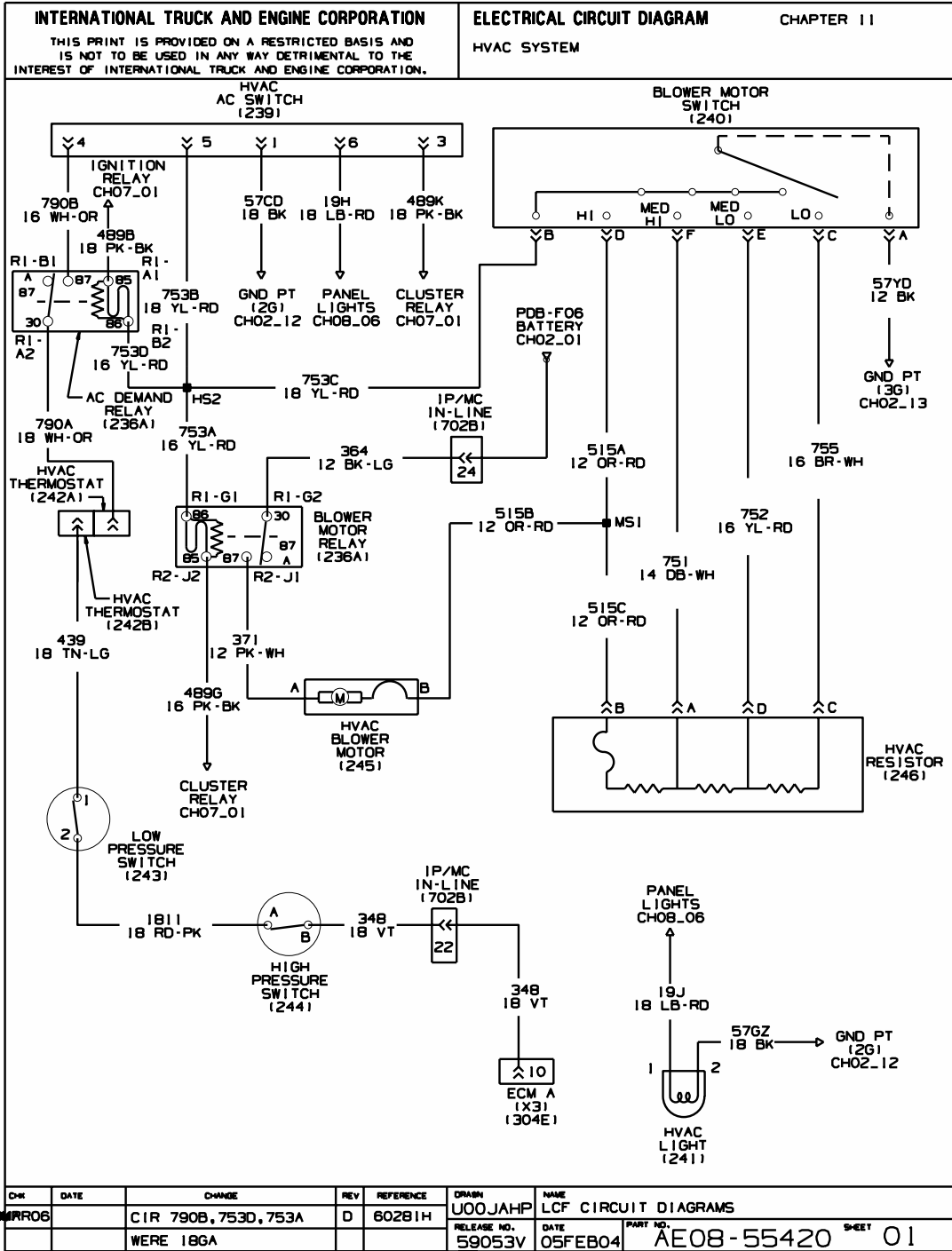


Figure 60 HVAC System

11.2. A/C CLUTCH, P. 2

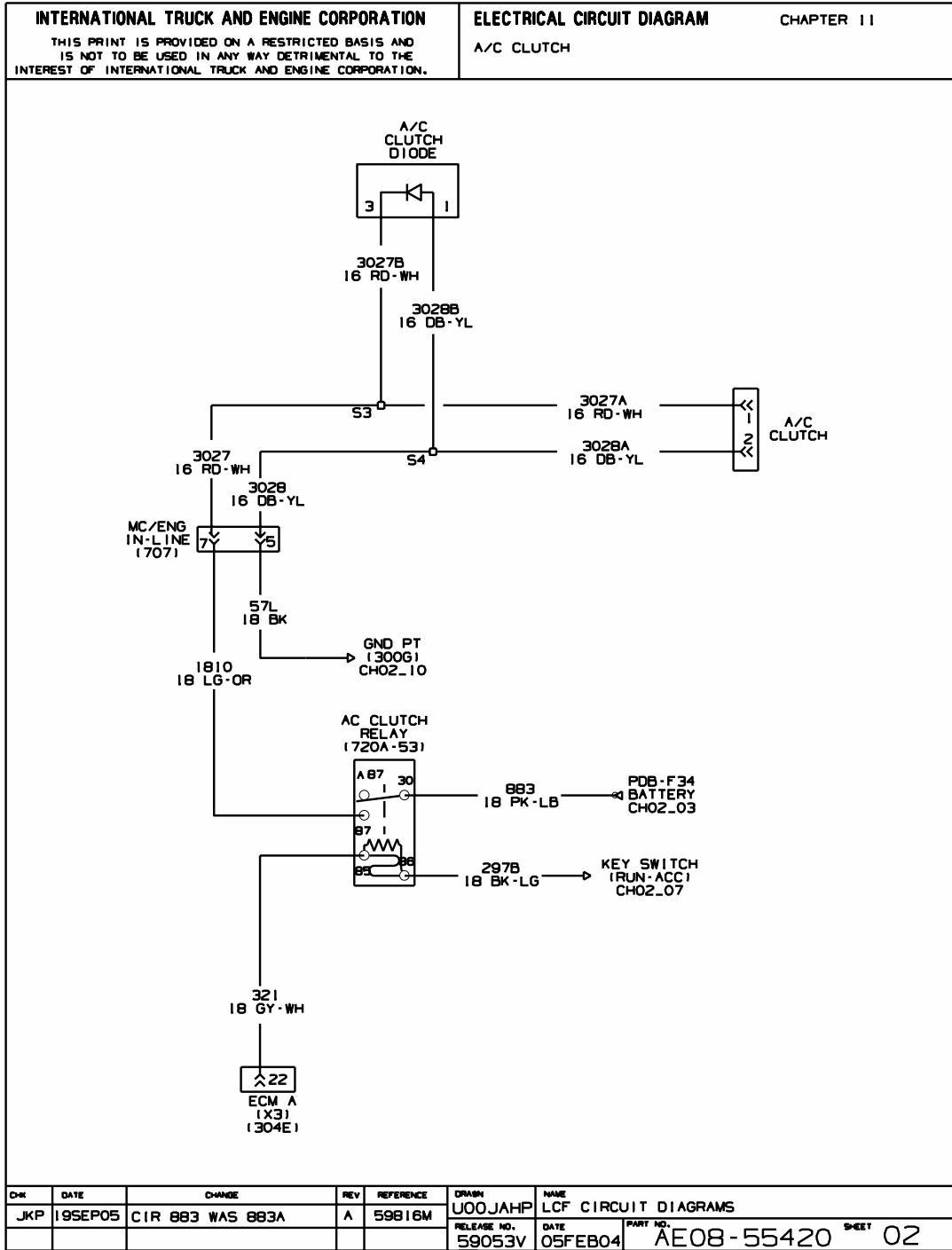


Figure 61 A/C Clutch

11.3. PUSHER FAN, P. 3

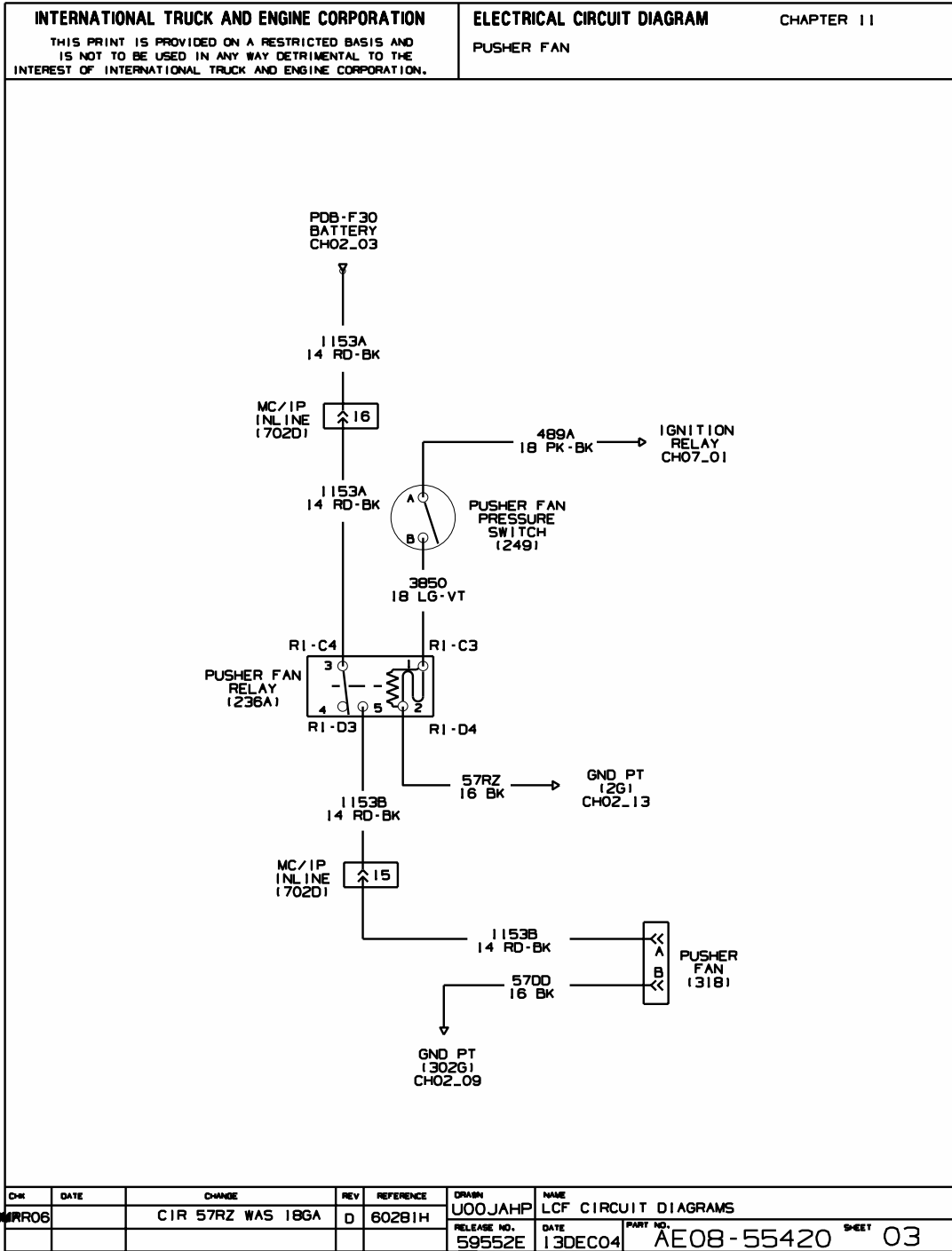


Figure 62 Pusher Fan

## 12. CONNECTOR COMPOSITES (CHAPTER 12)

### 12.1. CONNECTOR COMPOSITES (1), (2), (3), (4), (5), (101), (102), (103), (104), (105), (106), P. 1

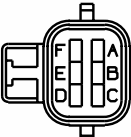











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 <p style="text-align: center;"><b>TRANS SHIFTER</b> (1) (FLOOR HARNESS) CONNECTOR - 2011340C1</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CAVITY</th> <th>CIRCUIT</th> <th>GAUGE</th> <th>COLOR</th> <th>TERMINAL</th> </tr> </thead> <tbody> <tr><td>A</td><td>511</td><td>16</td><td>LG</td><td>1661875C1</td></tr> <tr><td>B</td><td>22</td><td>18</td><td>LB-BK</td><td>1661875C1</td></tr> <tr><td>C</td><td>489L</td><td>18</td><td>PK-BK</td><td>1661875C1</td></tr> <tr><td>D</td><td>224</td><td>18</td><td>TN-WH</td><td>1661875C1</td></tr> <tr><td>E</td><td>19</td><td>18</td><td>LB-RD</td><td>1661875C1</td></tr> <tr><td>F</td><td>57A</td><td>18</td><td>BK</td><td>1661875C1</td></tr> </tbody> </table>	CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL	A	511	16	LG	1661875C1	B	22	18	LB-BK	1661875C1	C	489L	18	PK-BK	1661875C1	D	224	18	TN-WH	1661875C1	E	19	18	LB-RD	1661875C1	F	57A	18	BK	1661875C1	 <p style="text-align: center;"><b>PARK BRAKE SWITCH</b> (2) (FLOOR HARNESS) CONNECTOR - 3590393C1</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CAVITY</th> <th>CIRCUIT</th> <th>GAUGE</th> <th>COLOR</th> <th>TERMINAL</th> </tr> </thead> <tbody> <tr><td>A</td><td>57B</td><td>20</td><td>BK</td><td>3535805C1</td></tr> <tr><td>B</td><td>162</td><td>20</td><td>LG-RD</td><td>3535805C1</td></tr> </tbody> </table>	CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL	A	57B	20	BK	3535805C1	B	162	20	LG-RD	3535805C1
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 <p style="text-align: center;"><b>SEAT BELT SWITCH</b> (3) (FLOOR HARNESS) CONNECTOR - 3591644C1</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CAVITY</th> <th>CIRCUIT</th> <th>GAUGE</th> <th>COLOR</th> <th>TERMINAL</th> </tr> </thead> <tbody> <tr><td>1</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>2</td><td>85</td><td>18</td><td>BR-LB</td><td>3591651C1</td></tr> <tr><td>3</td><td>57D</td><td>18</td><td>BK</td><td>3591651C1</td></tr> <tr><td>4</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table>	CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL	1	-	-	-	-	2	85	18	BR-LB	3591651C1	3	57D	18	BK	3591651C1	4	-	-	-	-	 <p style="text-align: center;"><b>DRIVER DOOR SWITCH</b> (4) (FLOOR HARNESS) CONNECTOR - 3592573C1</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CAVITY</th> <th>CIRCUIT</th> <th>GAUGE</th> <th>COLOR</th> <th>TERMINAL</th> </tr> </thead> <tbody> <tr><td>1</td><td>159A</td><td>18</td><td>RD-PK</td><td>3592126C1</td></tr> </tbody> </table>	CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL	1	159A	18	RD-PK	3592126C1															
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Figure 63 Connector Composites (1), (2), (3), (4), (5), (101), (102), (103), (104), (105), (106)

12.2. CONNECTOR COMPOSITES (1G), (201), (202A), (202C), (203), (204), P. 2

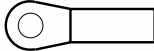
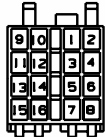
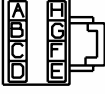
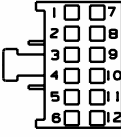


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12.3. CONNECTOR COMPOSITES (205A), (205B), (206), (207), (208), (209), P. 3

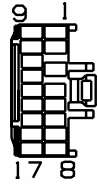
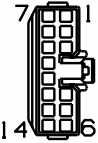




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 <p>CIGAR LIGHTER (206) (IP HARNESS) CONNECTOR - 3590298C1</p>				 <p>DIMMER SWITCH (207) (IP HARNESS) CONNECTOR - 0266516C1</p>																																																																																																																																																																												
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Figure 65 Connector Composites (205A), (205B), (206), (207), (208), (209)

12.4. CONNECTOR COMPOSITES (211), (212), (213), (214), (215), (217A), (217B), P. 4

INTERNATIONAL TRUCK AND ENGINE CORPORATION				ELECTRICAL CIRCUIT DIAGRAM		CHAPTER 12																																																																																																																																																																	
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1	1679	18	WH-YL	3591558C1																																																																																																																																																																			
2	118B	18	PK-OR	3591558C1																																																																																																																																																																			
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4	119C	18	PK-YL	3591558C1																																																																																																																																																																			
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7	117A	18	PK-BK	3591558C1																																																																																																																																																																			
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12	57FD	18	BK	3591558C1																																																																																																																																																																			
<p>KEY SWITCH (213) (1P HARNESS) CONNECTOR - 3591967C1</p> <table border="1" style="width:100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>CAVITY</th> <th>CIRCUIT</th> <th>GAUGE</th> <th>COLOR</th> <th>TERMINAL</th> </tr> </thead> <tbody> <tr><td>1</td><td>297</td><td>12</td><td>BK-LG</td><td>3591972C1</td></tr> <tr><td>2</td><td>296A</td><td>12</td><td>WH-VT</td><td>3591972C1</td></tr> <tr><td>3</td><td>1050</td><td>12</td><td>LG-VT</td><td>3591972C1</td></tr> <tr><td>4</td><td>32</td><td>12</td><td>RD-LB</td><td>3591972C1</td></tr> <tr><td>5</td><td>298</td><td>12</td><td>VT-OR</td><td>3591972C1</td></tr> <tr><td>6</td><td>1522</td><td>12</td><td>LG</td><td>3591972C1</td></tr> </tbody> </table>				CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL	1	297	12	BK-LG	3591972C1	2	296A	12	WH-VT	3591972C1	3	1050	12	LG-VT	3591972C1	4	32	12	RD-LB	3591972C1	5	298	12	VT-OR	3591972C1	6	1522	12	LG	3591972C1	<p>ASH TRAY LIGHT LEFT (214) (1P HARNESS) CONNECTOR - 3592814C1</p> <table border="1" style="width:100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>CAVITY</th> <th>CIRCUIT</th> <th>GAUGE</th> <th>COLOR</th> <th>TERMINAL</th> </tr> </thead> <tbody> <tr><td>A</td><td>119D1</td><td>18</td><td>LB-RD</td><td>-</td></tr> <tr><td>B</td><td>157D2</td><td>18</td><td>BK</td><td>-</td></tr> </tbody> </table>				CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL	A	119D1	18	LB-RD	-	B	157D2	18	BK	-																																																																																																														
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<p>CLUSTER A (217A) (1P HARNESS) CONNECTOR - 2018590C1</p> <table border="1" style="width:100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>CAVITY</th> <th>CIRCUIT</th> <th>GAUGE</th> <th>COLOR</th> <th>TERMINAL</th> </tr> </thead> <tbody> <tr><td>1</td><td>489D</td><td>18</td><td>PK-BK</td><td>2018639C1</td></tr> <tr><td>2</td><td>3049A</td><td>18</td><td>BK-LG</td><td>2018639C1</td></tr> <tr><td>3</td><td>1719</td><td>18</td><td>GY-BK</td><td>2018639C1</td></tr> <tr><td>4</td><td>1720</td><td>18</td><td>DB-OR</td><td>2018639C1</td></tr> <tr><td>5</td><td>85</td><td>18</td><td>BR-LB</td><td>2018639C1</td></tr> <tr><td>6</td><td>904</td><td>18</td><td>LG-RD</td><td>2018639C1</td></tr> <tr><td>7</td><td>196</td><td>18</td><td>LB-RD</td><td>2018639C1</td></tr> <tr><td>8</td><td>159</td><td>18</td><td>RD-PK</td><td>2018639C1</td></tr> <tr><td>9</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>10</td><td>29</td><td>18</td><td>YL-WH</td><td>2018639C1</td></tr> <tr><td>11</td><td>171B</td><td>16</td><td>RD-PK</td><td>2018639C1</td></tr> <tr><td>12</td><td>162B</td><td>18</td><td>LG-RD</td><td>2018639C1</td></tr> </tbody> </table>				CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL	1	489D	18	PK-BK	2018639C1	2	3049A	18	BK-LG	2018639C1	3	1719	18	GY-BK	2018639C1	4	1720	18	DB-OR	2018639C1	5	85	18	BR-LB	2018639C1	6	904	18	LG-RD	2018639C1	7	196	18	LB-RD	2018639C1	8	159	18	RD-PK	2018639C1	9	-	-	-	-	10	29	18	YL-WH	2018639C1	11	171B	16	RD-PK	2018639C1	12	162B	18	LG-RD	2018639C1	<p>CLUSTER B (217B) (1P HARNESS) CONNECTOR - 2018589C1</p> <table border="1" style="width:100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>CAVITY</th> <th>CIRCUIT</th> <th>GAUGE</th> <th>COLOR</th> <th>TERMINAL</th> </tr> </thead> <tbody> <tr><td>1</td><td>57FC</td><td>18</td><td>BK</td><td>2018639C1</td></tr> <tr><td>2</td><td>57KC</td><td>18</td><td>BK</td><td>2018639C1</td></tr> <tr><td>3</td><td>57LC</td><td>18</td><td>BK</td><td>2018639C1</td></tr> <tr><td>4</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>5</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>6</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>7</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>8</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>9</td><td>14J</td><td>16</td><td>BR</td><td>2018639C1</td></tr> <tr><td>10</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>11</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>12</td><td>128</td><td>18</td><td>VT-YL</td><td>2018639C1</td></tr> <tr><td>13</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>14</td><td>1815A</td><td>18</td><td>PK-LB</td><td>2018639C1</td></tr> <tr><td>15</td><td>1814A</td><td>18</td><td>WH-LB</td><td>2018639C1</td></tr> <tr><td>16</td><td>1852A</td><td>18</td><td>PK-LG</td><td>2018639C1</td></tr> <tr><td>17</td><td>1851A</td><td>18</td><td>WH-LG</td><td>2018639C1</td></tr> <tr><td>18</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table>				CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL	1	57FC	18	BK	2018639C1	2	57KC	18	BK	2018639C1	3	57LC	18	BK	2018639C1	4	-	-	-	-	5	-	-	-	-	6	-	-	-	-	7	-	-	-	-	8	-	-	-	-	9	14J	16	BR	2018639C1	10	-	-	-	-	11	-	-	-	-	12	128	18	VT-YL	2018639C1	13	-	-	-	-	14	1815A	18	PK-LB	2018639C1	15	1814A	18	WH-LB	2018639C1	16	1852A	18	PK-LG	2018639C1	17	1851A	18	WH-LG	2018639C1	18	-	-	-	-
CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL																																																																																																																																																																			
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15	1814A	18	WH-LB	2018639C1																																																																																																																																																																			
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17	1851A	18	WH-LG	2018639C1																																																																																																																																																																			
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Figure 66 Connector Composites (211), (212), (213), (214), (215), (217A), (217B)



12.5. CONNECTOR COMPOSITES (220), (222), (223), (225), (226), (227), (228), (229), (233), (234), P. 5

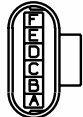
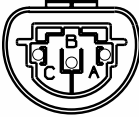
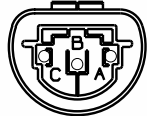







INTERNATIONAL TRUCK AND ENGINE CORPORATION				ELECTRICAL CIRCUIT DIAGRAM		CHAPTER 12			
THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF INTERNATIONAL TRUCK AND ENGINE CORPORATION.				CONNECTOR COMPOSITES					
 <p>THROTTLE POSITION SENSOR (220) (IP HARNESS) CONNECTOR - 1687790C1</p>				 <p>HEADLAMP LEFT HAND (222) (IP HARNESS) CONNECTOR - 3561125C1</p>					
CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL	CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL
A	1283	18	TN-YL	1651943C1	A	13B	14	RD-BK	3590567C1
B	359B	18	GY-RD	1651943C1	B	57LH	16	BK	3590567C1
C	351B	18	BR-WH	1651943C1	C	12D	14	LG-BK	3590567C1
D	1285	18	RD-LG	1651943C1					
E	PLUG	-	-	-					
F	1857	18	YL-WH	1651943C1					
 <p>HEADLAMP RIGHT HAND (223) (IP HARNESS) CONNECTOR - 3561125C1</p>				 <p>WIPER MOTOR (225) (IP HARNESS) CONNECTOR - 3591561C1</p>					
CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL	CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL
A	13C	14	RD-BK	3590567C1	A	1675	16	BK-PK	3591564C1
B	57RH	16	BK	3590567C1	B	1674	18	DB-OR	3591564C1
C	12E	14	LG-BK	3590567C1	C	63	16	RD	3591564C1
					D	1671A	14	RD	3591564C1
 <p>WASHER PUMP (226) (IP HARNESS) CONNECTOR - 3536864C1</p>				 <p>BRAKE PEDAL SWITCH (227) (IP HARNESS) CONNECTOR - 3608500C1</p>					
CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL	CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL
A	57LD	18	BK	3591564C1	1	10	16	LG-RD	3605696C1
B	941	18	BK-WH	3591564C1	2	511B	16	LG	3605696C1
					3	-	-	-	-
					4	-	-	-	-
					5	298C	18	VT-OR	3605696C1
					6	2233	18	OR-YL	3605696C1
 <p>FRONT COMBI LEFT HAND (228) (IP HARNESS) CONNECTOR - 3591758C1</p>				 <p>FRONT COMBI RIGHT HAND (229) (IP HARNESS) CONNECTOR - 3591758C1</p>					
CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL	CAVITY	CIRCUIT	GAUGE	COLOR	NUMBER
1	3D	18	LG-WH	3593435C1	1	2D	18	WH-LB	3593435C1
2	14A	16	BR	3593435C1	2	14B	16	BR	3593435C1
3	57MD	18	BK	3593435C1	3	57ND	18	BK	3593435C1
4	14D	16	BR	3593435C1	4	14C	16	BR	3593435C1
 <p>LEFT FOG LIGHT (233) (IP HARNESS) CONNECTOR - 3591991C1</p>				 <p>RIGHT FOG LIGHT (234) (IP HARNESS) CONNECTOR - 3591991C1</p>					
CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL	CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL
1	1721A	18	LB-BK	3590956C1	1	1721B	18	LB-BK	3590956C1
2	57SD	18	BK	3590956C1	2	57TD	18	BK	3590956C1

Figure 67 Connector Composites (220), (222), (223), (225), (226), (227), (228), (229), (233), (234)

12.6. CONNECTOR COMPOSITES (235), (236B), P. 6

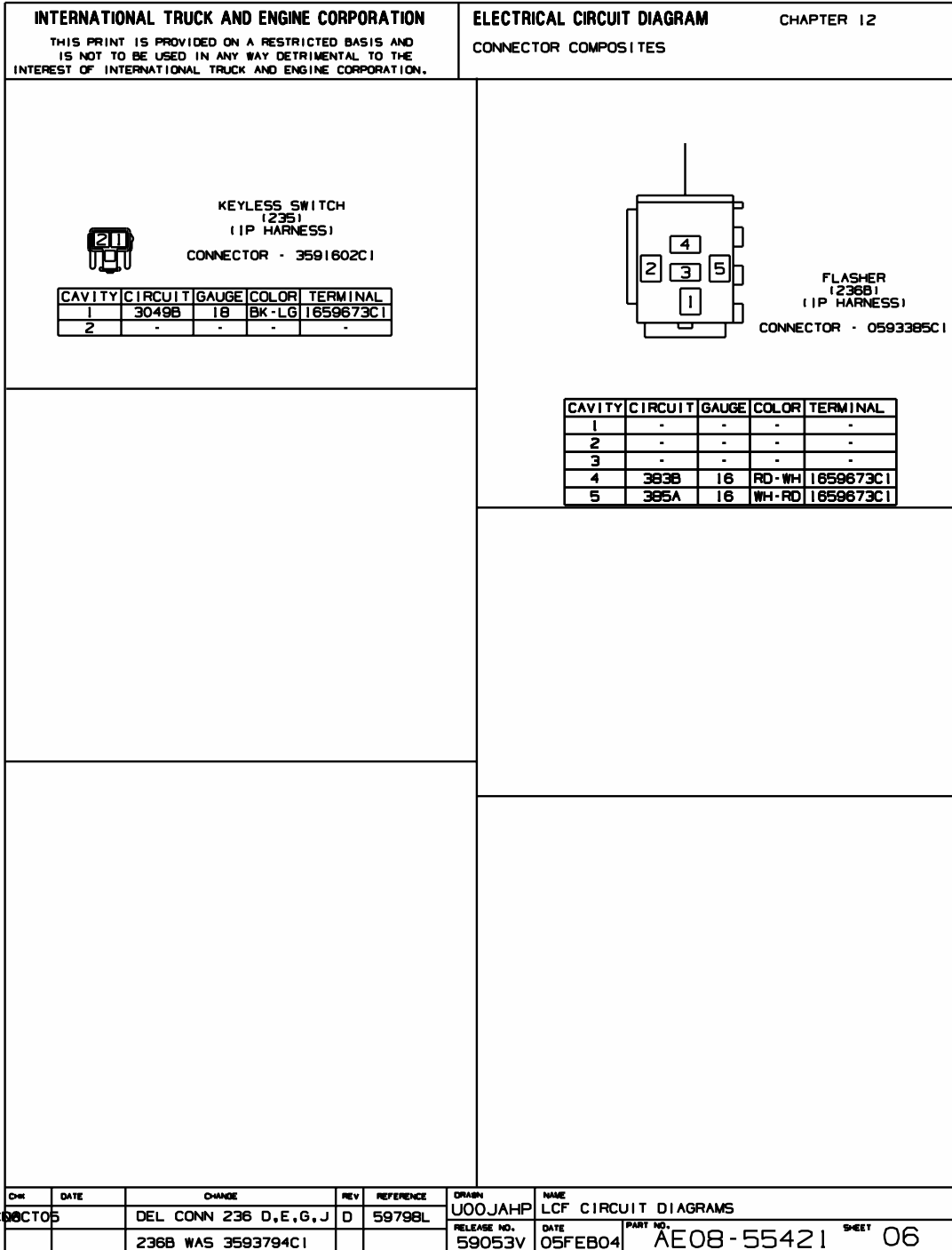


Figure 68 Connector Composites (235), (236B)

12.7. CONNECTOR COMPOSITES (237), (238), (239), (240), (241), (242A), (242B), P. 7

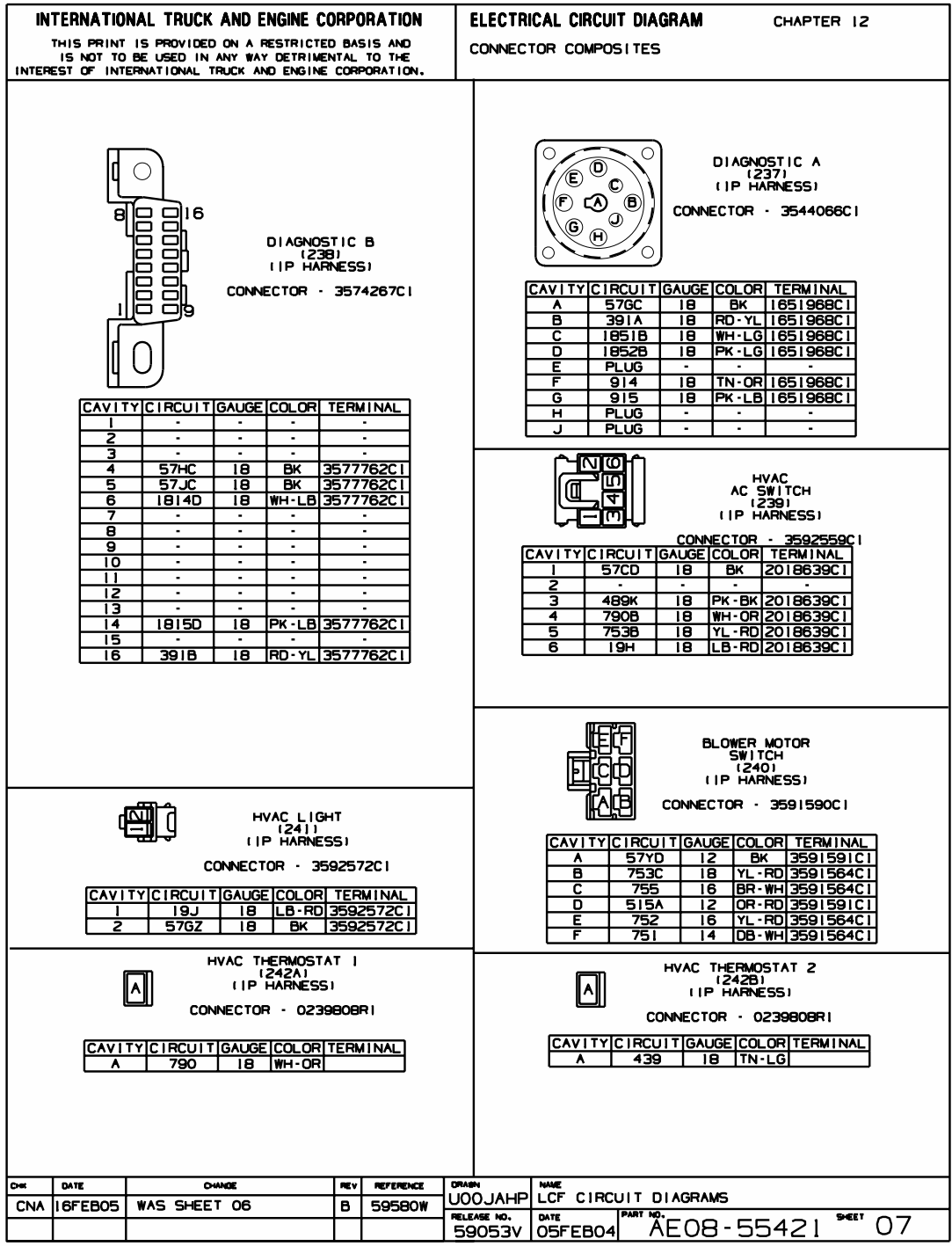






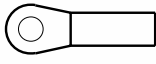

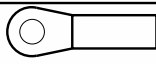
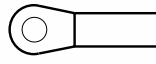
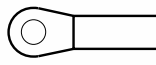
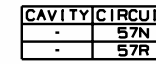


Figure 69 Connector Composites (237), (238), (239), (240), (241), (242A), (242B)

12.8. CONNECTOR COMPOSITES (2G), (3G), (243), (244), (245), (246), (247), (248),(249), (300G), (301G), (302G), P. 8

INTERNATIONAL TRUCK AND ENGINE CORPORATION				ELECTRICAL CIRCUIT DIAGRAM																																											
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 <p>LOW PRESSURE SWITCH (243) (IP-HARNESS) CONNECTOR - 3590390C1</p> <table border="1"> <thead> <tr> <th>CAVITY</th> <th>CIRCUIT</th> <th>GAUGE</th> <th>COLOR</th> <th>TERMINAL</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>439</td> <td>18</td> <td>TN-LG</td> <td>1661875C1</td> </tr> <tr> <td>2</td> <td>1811</td> <td>18</td> <td>RD-PK</td> <td>1661875C1</td> </tr> </tbody> </table>				CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL	1	439	18	TN-LG	1661875C1	2	1811	18	RD-PK	1661875C1	 <p>HIGH PRESSURE SWITCH (244) (IP-HARNESS) CONNECTOR - 3590299C1</p> <table border="1"> <thead> <tr> <th>CAVITY</th> <th>CIRCUIT</th> <th>GAUGE</th> <th>COLOR</th> <th>TERMINAL</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>1811</td> <td>18</td> <td>RD-PK</td> <td>1661875C1</td> </tr> <tr> <td>B</td> <td>348</td> <td>18</td> <td>VT</td> <td>1661875C1</td> </tr> </tbody> </table>				CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL	A	1811	18	RD-PK	1661875C1	B	348	18	VT	1661875C1										
CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL																																											
1	439	18	TN-LG	1661875C1																																											
2	1811	18	RD-PK	1661875C1																																											
CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL																																											
A	1811	18	RD-PK	1661875C1																																											
B	348	18	VT	1661875C1																																											
 <p>BLOWER MOTOR SWITCH (245) (IP-HARNESS) CONNECTOR - 3514683C1</p> <table border="1"> <thead> <tr> <th>CAVITY</th> <th>CIRCUIT</th> <th>GAUGE</th> <th>COLOR</th> <th>TERMINAL</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>371</td> <td>12</td> <td>PK-WH</td> <td>0333734C1</td> </tr> <tr> <td>B</td> <td>515B</td> <td>12</td> <td>OR-RD</td> <td>0333734C1</td> </tr> </tbody> </table>				CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL	A	371	12	PK-WH	0333734C1	B	515B	12	OR-RD	0333734C1	 <p>HVAC RESISTOR (246) (IP-HARNESS) CONNECTOR - 0471182C1</p> <table border="1"> <thead> <tr> <th>CAVITY</th> <th>CIRCUIT</th> <th>GAUGE</th> <th>COLOR</th> <th>TERMINAL</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>751</td> <td>14</td> <td>DB-WH</td> <td>188396R1</td> </tr> <tr> <td>B</td> <td>515C</td> <td>12</td> <td>OR-RD</td> <td>1660577C1</td> </tr> <tr> <td>C</td> <td>755</td> <td>16</td> <td>BR-WH</td> <td>188396R1</td> </tr> <tr> <td>D</td> <td>752</td> <td>16</td> <td>YL-RD</td> <td>188396R1</td> </tr> </tbody> </table>				CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL	A	751	14	DB-WH	188396R1	B	515C	12	OR-RD	1660577C1	C	755	16	BR-WH	188396R1	D	752	16	YL-RD	188396R1
CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL																																											
A	371	12	PK-WH	0333734C1																																											
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C	755	16	BR-WH	188396R1																																											
D	752	16	YL-RD	188396R1																																											
 <p>BRAKE FLUID LEVEL SWITCH (247) (IP-HARNESS) CONNECTOR - 1661778C1</p> <table border="1"> <thead> <tr> <th>CAVITY</th> <th>CIRCUIT</th> <th>GAUGE</th> <th>COLOR</th> <th>TERMINAL</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>12B</td> <td>18</td> <td>VT-YL</td> <td>1661875C1</td> </tr> <tr> <td>B</td> <td>57HD</td> <td>18</td> <td>BK</td> <td>1661875C1</td> </tr> </tbody> </table>				CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL	A	12B	18	VT-YL	1661875C1	B	57HD	18	BK	1661875C1	 <p>BRAKE PRESSURE SWITCH (248) (IP-HARNESS) CONNECTOR - 3574257C1</p> <table border="1"> <thead> <tr> <th>CAVITY</th> <th>CIRCUIT</th> <th>GAUGE</th> <th>COLOR</th> <th>TERMINAL</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>489P</td> <td>18</td> <td>PK-BK</td> <td>3561584C1</td> </tr> <tr> <td>2</td> <td>535</td> <td>18</td> <td>LB-RD</td> <td>3561584C1</td> </tr> </tbody> </table>				CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL	1	489P	18	PK-BK	3561584C1	2	535	18	LB-RD	3561584C1										
CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL																																											
A	12B	18	VT-YL	1661875C1																																											
B	57HD	18	BK	1661875C1																																											
CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL																																											
1	489P	18	PK-BK	3561584C1																																											
2	535	18	LB-RD	3561584C1																																											
 <p>GROUND (26) (IP-HARNESS) CONNECTOR - 0373759C2</p> <table border="1"> <thead> <tr> <th>CAVITY</th> <th>CIRCUIT</th> <th>GAUGE</th> <th>COLOR</th> <th>TERMINAL</th> </tr> </thead> <tbody> <tr> <td>-</td> <td>57C</td> <td>10</td> <td>BK</td> <td>-</td> </tr> <tr> <td>-</td> <td>57D</td> <td>10</td> <td>BK</td> <td>-</td> </tr> </tbody> </table>				CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL	-	57C	10	BK	-	-	57D	10	BK	-	 <p>PUSHER FAN PRESSURE SWITCH (249) (IP-HARNESS) CONNECTOR - 1661778C1</p> <table border="1"> <thead> <tr> <th>CAVITY</th> <th>CIRCUIT</th> <th>GAUGE</th> <th>COLOR</th> <th>TERMINAL</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>489A</td> <td>18</td> <td>PK-BK</td> <td>1661875C1</td> </tr> <tr> <td>B</td> <td>3850</td> <td>18</td> <td>LG-VT</td> <td>1661875C1</td> </tr> </tbody> </table>				CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL	A	489A	18	PK-BK	1661875C1	B	3850	18	LG-VT	1661875C1										
CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL																																											
-	57C	10	BK	-																																											
-	57D	10	BK	-																																											
CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL																																											
A	489A	18	PK-BK	1661875C1																																											
B	3850	18	LG-VT	1661875C1																																											
 <p>GROUND (30) (IP-HARNESS) CONNECTOR - 0373759C2</p> <table border="1"> <thead> <tr> <th>CAVITY</th> <th>CIRCUIT</th> <th>GAUGE</th> <th>COLOR</th> <th>TERMINAL</th> </tr> </thead> <tbody> <tr> <td>-</td> <td>57A</td> <td>10</td> <td>BK</td> <td>-</td> </tr> <tr> <td>-</td> <td>57B</td> <td>8</td> <td>BK</td> <td>-</td> </tr> </tbody> </table>				CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL	-	57A	10	BK	-	-	57B	8	BK	-	 <p>GROUND (300G) (IMC-HARNESS) CONNECTOR - 0373756C2</p> <table border="1"> <thead> <tr> <th>CAVITY</th> <th>CIRCUIT</th> <th>GAUGE</th> <th>COLOR</th> <th>TERMINAL</th> </tr> </thead> <tbody> <tr> <td>-</td> <td>57S</td> <td>8</td> <td>BK</td> <td>-</td> </tr> <tr> <td>-</td> <td>57M</td> <td>8</td> <td>BK</td> <td>-</td> </tr> </tbody> </table>				CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL	-	57S	8	BK	-	-	57M	8	BK	-										
CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL																																											
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CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL																																											
-	57S	8	BK	-																																											
-	57M	8	BK	-																																											
 <p>GROUND (301G) (IMC-HARNESS) CONNECTOR - 0373756C2</p> <table border="1"> <thead> <tr> <th>CAVITY</th> <th>CIRCUIT</th> <th>GAUGE</th> <th>COLOR</th> <th>TERMINAL</th> </tr> </thead> <tbody> <tr> <td>-</td> <td>57S</td> <td>8</td> <td>BK</td> <td>-</td> </tr> <tr> <td>-</td> <td>57T</td> <td>14</td> <td>BK</td> <td>-</td> </tr> </tbody> </table>				CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL	-	57S	8	BK	-	-	57T	14	BK	-	 <p>GROUND (300G) (IMC-HARNESS) CONNECTOR - 0373756C2</p> <table border="1"> <thead> <tr> <th>CAVITY</th> <th>CIRCUIT</th> <th>GAUGE</th> <th>COLOR</th> <th>TERMINAL</th> </tr> </thead> <tbody> <tr> <td>-</td> <td>57N</td> <td>10</td> <td>BK</td> <td>-</td> </tr> <tr> <td>-</td> <td>57R</td> <td>10</td> <td>BK</td> <td>-</td> </tr> </tbody> </table>				CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL	-	57N	10	BK	-	-	57R	10	BK	-										
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CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
JKP	31MAY05	ADDED CONN 249	C	59741W	U00JAHP	LCF CIRCUIT DIAGRAMS
					RELEASE NO. 59053V	DATE 05FEB04
						PART NO. AE08-55421
						SHEET 08

Figure 70 Connector Composites (2G), (3G), (243), (244), (245), (246), (247), (248),(249), (300G), (301G), (302G)

12.9. CONNECTOR COMPOSITES (301), (301A), (301B), (301D), (304D), (304E), P. 9

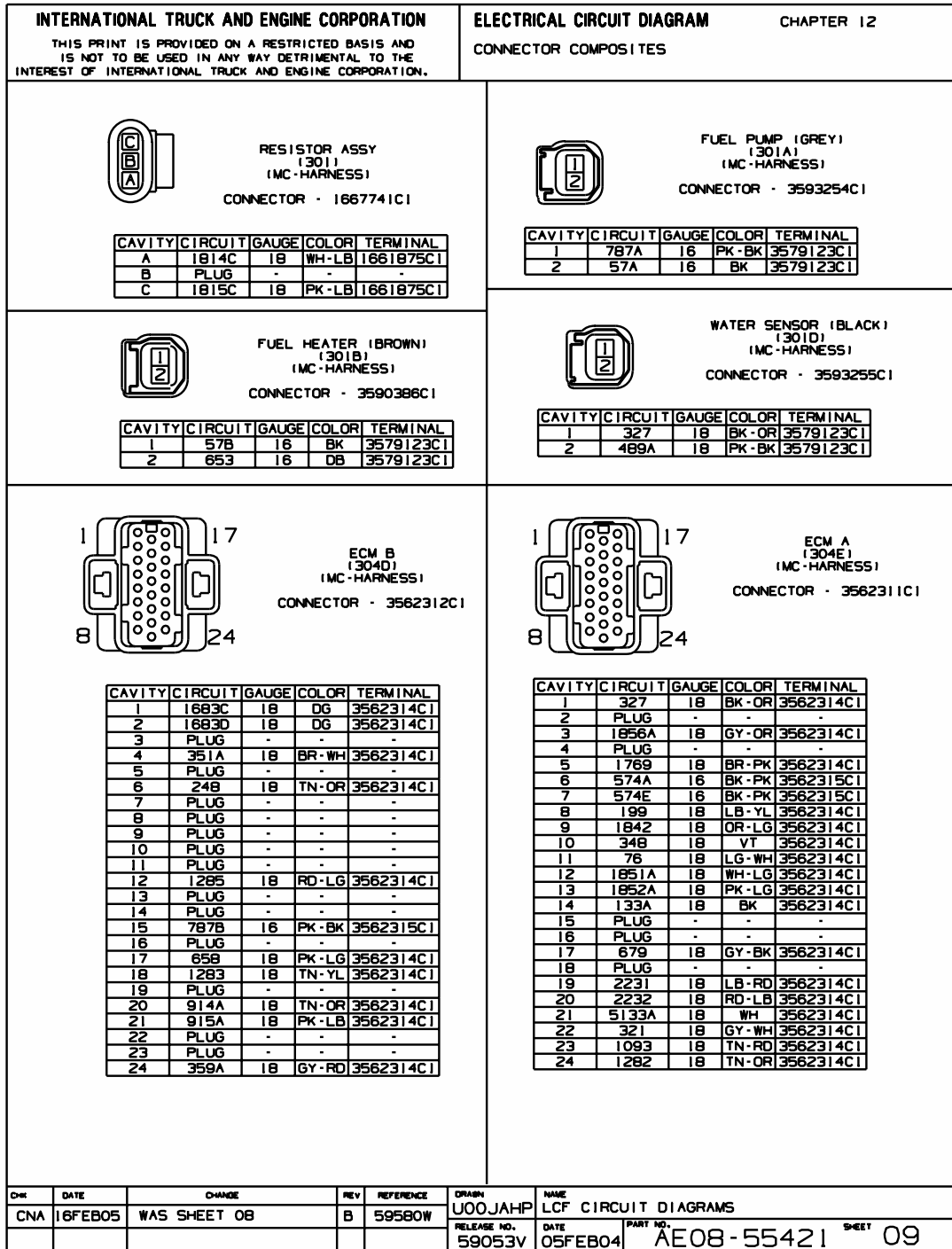


Figure 71 Connector Composites (301), (301A), (301B), (301D), (304D), (304E)

12.10. CONNECTOR COMPOSITE (306), P. 10

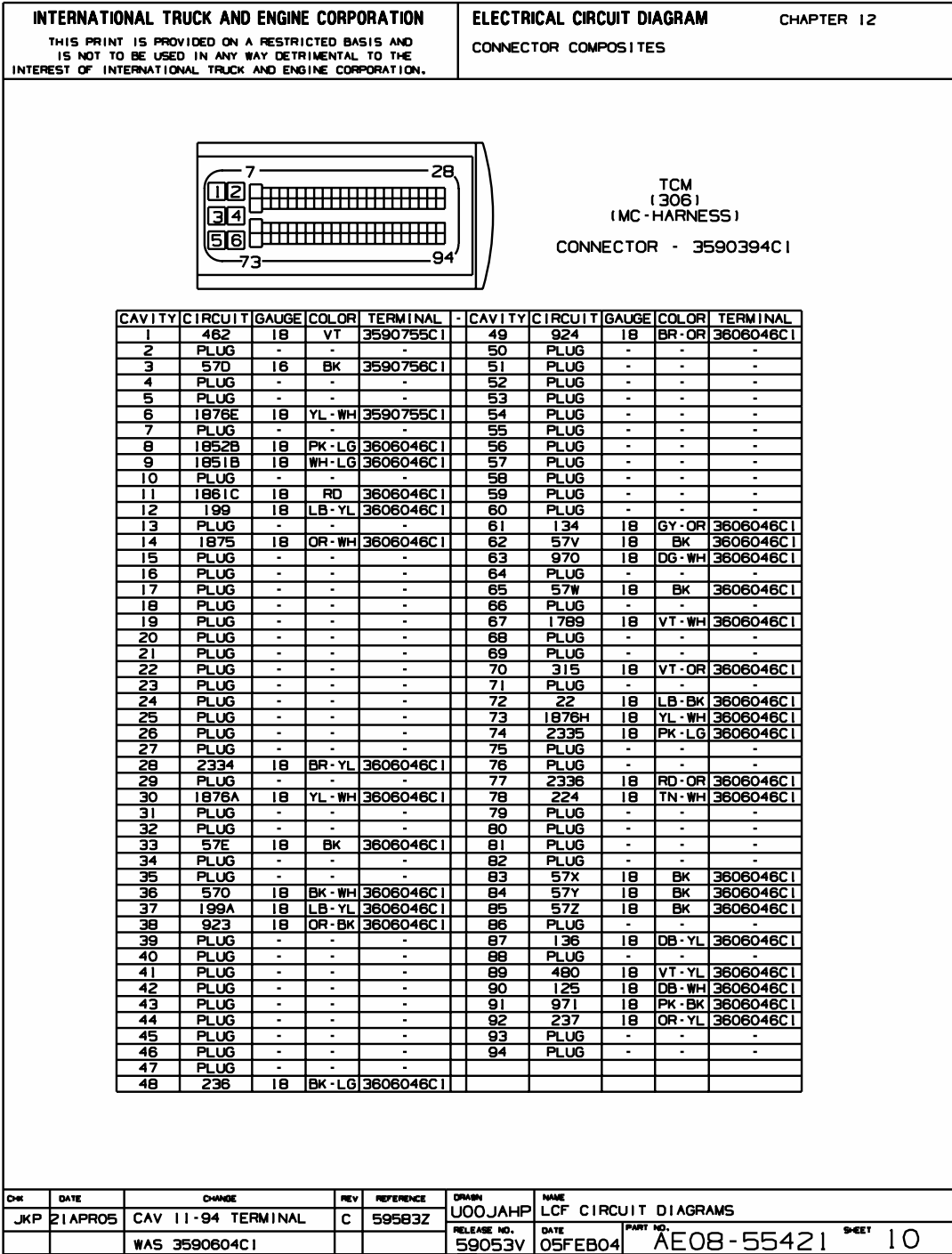


Figure 72 Connector Composite (306)

12.11. CONNECTOR COMPOSITES (308), (309), (310), (313), P. 11

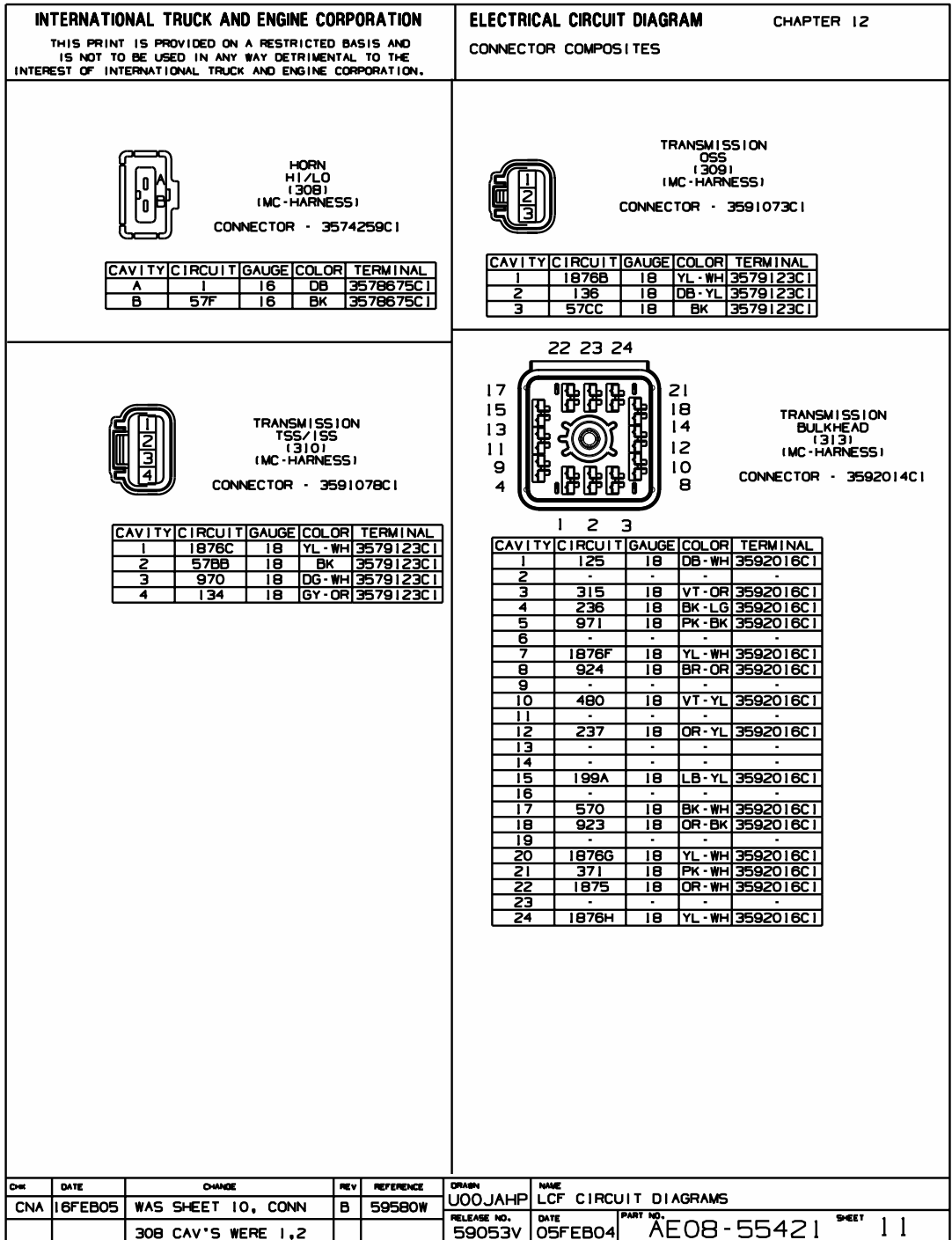


Figure 73 Connector Composites (308), (309), (310), (313)

12.12. CONNECTOR COMPOSITES (315), (316), (317), (318), (401), (402), P. 12

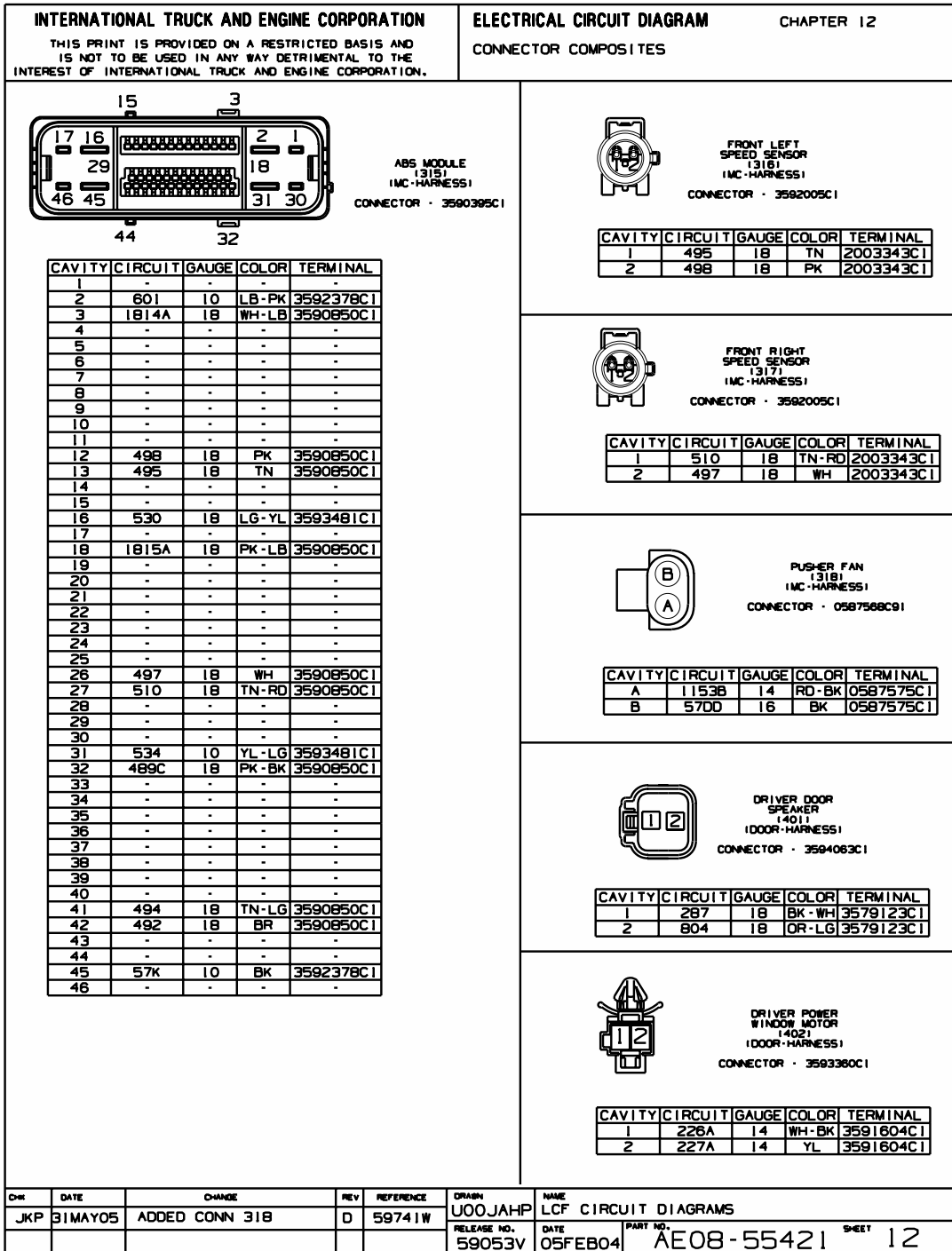


Figure 74 Connector Composites (315), (316), (317), (318), (401), (402)







12.15. GEOMETRY REMOVED, P. 15

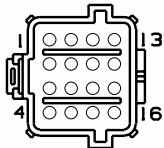
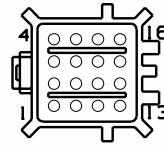
INTERNATIONAL TRUCK AND ENGINE CORPORATION THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF INTERNATIONAL TRUCK AND ENGINE CORPORATION.				ELECTRICAL CIRCUIT DIAGRAM CONNECTOR COMPOSITES		CHAPTER 12	
<p>GEOMETRY REMOVED</p>							
CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	
3M/RROB		GEOMETRY REMOVED	D	60281H	U00JAH	LCF CIRCUIT DIAGRAMS	
					RELEASE NO.	DATE	PART NO. SHEET
					59053V	05FEB04	AE08-55421 15

Figure 77 Geometry Removed





12.18. CONNECTOR COMPOSITES (702D), P. 18

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					
 <p style="text-align: center;">IP-MC IN-LINE (702D) (IP HARNESS) CONNECTOR - 3574235C1</p>				 <p style="text-align: center;">IP-MC IN-LINE (702D) (MC HARNESS (BOC)) CONNECTOR - 3574236C1</p>					
CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL	CAVITY	CIRCUIT	GAUGE	COLOR	TERMINAL
1	904	18	LG-RD	2003343C1	1	904	18	LG-RD	3549418C1
2	391C	18	RD-YL	2003343C1	2	391	18	RD-YL	3549418C1
3	165	18	TN-WH	2003343C1	3	165	18	TN-WH	3549418C1
4	1032	18	WH-BK	2003343C1	4	1032	18	WH-BK	3549418C1
5	2002C	18	OR-BK	2003343C1	5	2002	18	OR-BK	3549418C1
6	22	18	LB-BK	2003343C1	6	22	18	LB-BK	3549418C1
7	3049D	18	BK-LG	2003343C1	7	3049A	18	BK-LG	3549418C1
8	PLUG	-	-	-	8	PLUG	-	-	-
9	PLUG	-	-	-	9	PLUG	-	-	-
10	1851C	18	WH-LG	2003343C1	10	1851C	18	WH-LG	3549418C1
11	PLUG	-	-	-	11	PLUG	-	-	-
12	914	18	TN-OR	2003343C1	12	914B	18	TN-OR	3549418C1
13	915	18	PK-LB	2003343C1	13	915B	18	PK-LB	3549418C1
14	1852C	18	PK-LG	2003343C1	14	1852C	18	PK-LG	3549418C1
15	1153B	14	RD-BK	2003343C1	15	1153B	14	RD-BK	3549418C1
16	1153A	14	RD-BK	2003343C1	16	1153A	14	RD-BK	3549418C1

CHR	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
CNA	16FEB05	WAS SHEET 17	B	59580W	U00JAHF	LCF CIRCUIT DIAGRAMS
					RELEASE NO.	DATE
					59053V	05FEB04
					PART NO.	SHEET
					AE08-55421	18

Figure 80 Connector Composites (702D)







12.21. CONNECTOR COMPOSITES (705), P. 21

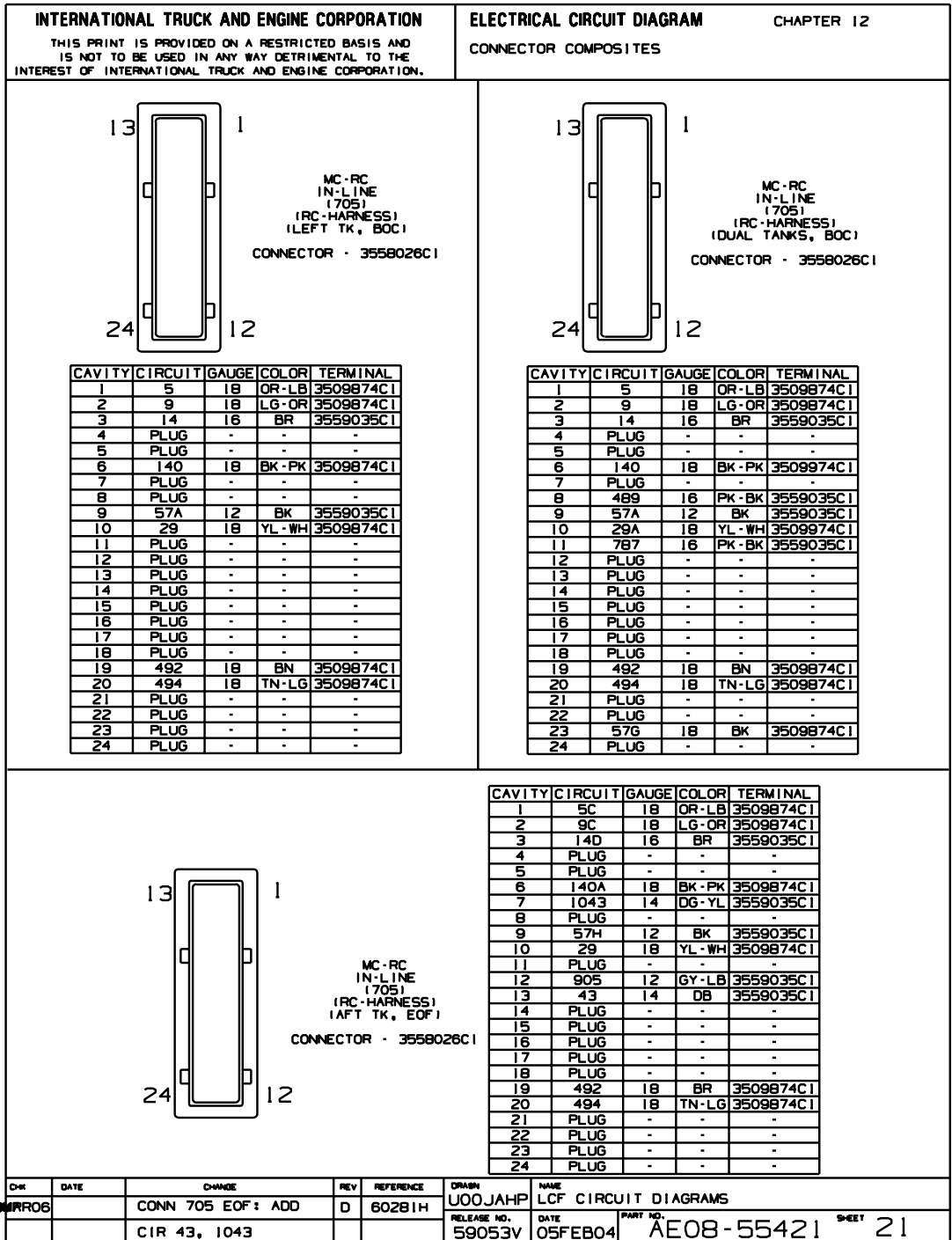


Figure 83 Connector Composites (705)

12.22. CONNECTOR COMPOSITES (705), (706), (707), P. 22

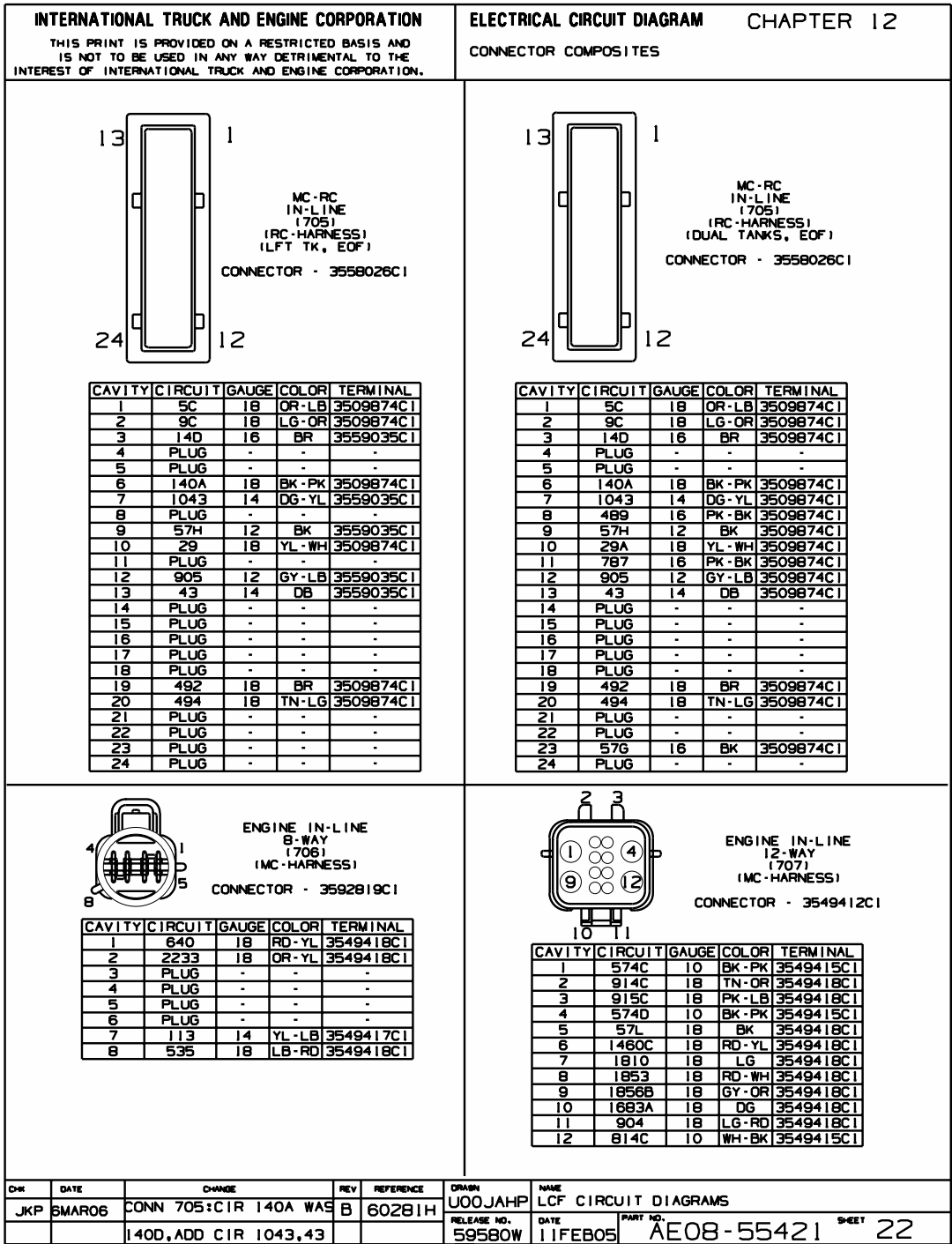


Figure 84 Connector Composites (705), (706), (707)