

8. GAUGES WITH AND WITHOUT INTERNAL WARNING LIGHT (CHAPTER 8)

8.1. IP/GAUGES, P. 1

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ELECTRICAL CIRCUIT DIAGRAM

IP / GAUGES

CHAPTER 8

INSTRUMENT PANEL GAUGES

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	AXLE

NOTES:

1. WARNING LIGHTS ARE PART OF THE GAUGES AND LOCATED IN THE GAUGE

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	
CNA	9MAY07	REVISED & REDRAWN	A	60782A	U00K640	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS	
					RELEASE NO.	DATE	PART NO.
					59974G	20APR06	AE08-56614
							SHEET 01

Figure 105 IP/Gauges

8.2. WARNING LIGHT LIST, P. 2

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ELECTRICAL CIRCUIT DIAGRAM

CHAPTER 8

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 (O)	SYSTEM CTRLR / DRIVE TRAIN J1939 / CLUSTER	SWITCH
BRAKE FLUID	SYSTEM CTRLR / DRIVE TRAIN J1939 / CLUSTER	BRK RESERVOIR
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 (LEFT TURN)	SYSTEM CTRLR / DRIVE TRAIN J1939 / CLUSTER	WASHER BOTTLE
AIR BAG	DISCRETE NOT ON DATA BUS	TURN SIG SW
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	
TOUCH LOC 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	0MAY07	REVISED & REDRAWN	A	60782A	U00K640	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS
					RELEASE NO.	DATE
					59974G	20APR06
					PART NO.	SHEET
					AE08-56614	02

Figure 106 Warning Light List

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

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ELECTRICAL CIRCUIT DIAGRAM

CHAPTER 8

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 CIRCUITS 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	
CNA	9MAY07	REVISED & REDRAWN	A	60782A	U00K640	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS	
					RELEASE NO.	DATE	PART NO.
					59974G	20APR06	AE08-56614
							SHEET 03

Figure 107 Warning Lights Controlled by Engine, Transmission, ABS Controller

8.4. ENGINE OIL PRESSURE AND TEMP, SPEEDOMETER, TACHOMETER,
VOLTMETER AND WATER TEMP GAUGE CIRCUITS, P. 4

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ELECTRICAL CIRCUIT DIAGRAM

CHAPTER 8

ENG OIL PRESS & TEMP, SPEEDOMETER, TACH,
VOLTMETER & WATER TEMP GAUGE CIRCUITS

REFER TO CONSOLIDATED ENGINE / VEHICLE CONTROLLER
DIAGNOSTICS MANUAL EGES-175 (DT466E), EGES-190 (T444E), FOR CIRCUIT
DIAGRAMS SHOWING INPUT CIRCUIT FOR THE FOLLOWING DATALINK DRIVEN SYSTEM:

ENGINE OIL PRESSURE GAUGE

ENGINE OIL TEMPERATURE GAUGE

SPEEDOMETER GAUGE

TACHOMETER GAUGE

WATER TEMPERATURE GAUGE

CHG	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	
CNA	05MAY07	REVISED & REDRAWN	A	60782A	U00K640	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS	
					RELEASE NO.	DATE	PART NO.
					59974G	20APR06	AE08-56614
						SHEET	04

Figure 108 Engine Oil Pressure and Temp, Speedometer, Tachometer, Voltmeter and Water Temp Gauge Circuits

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

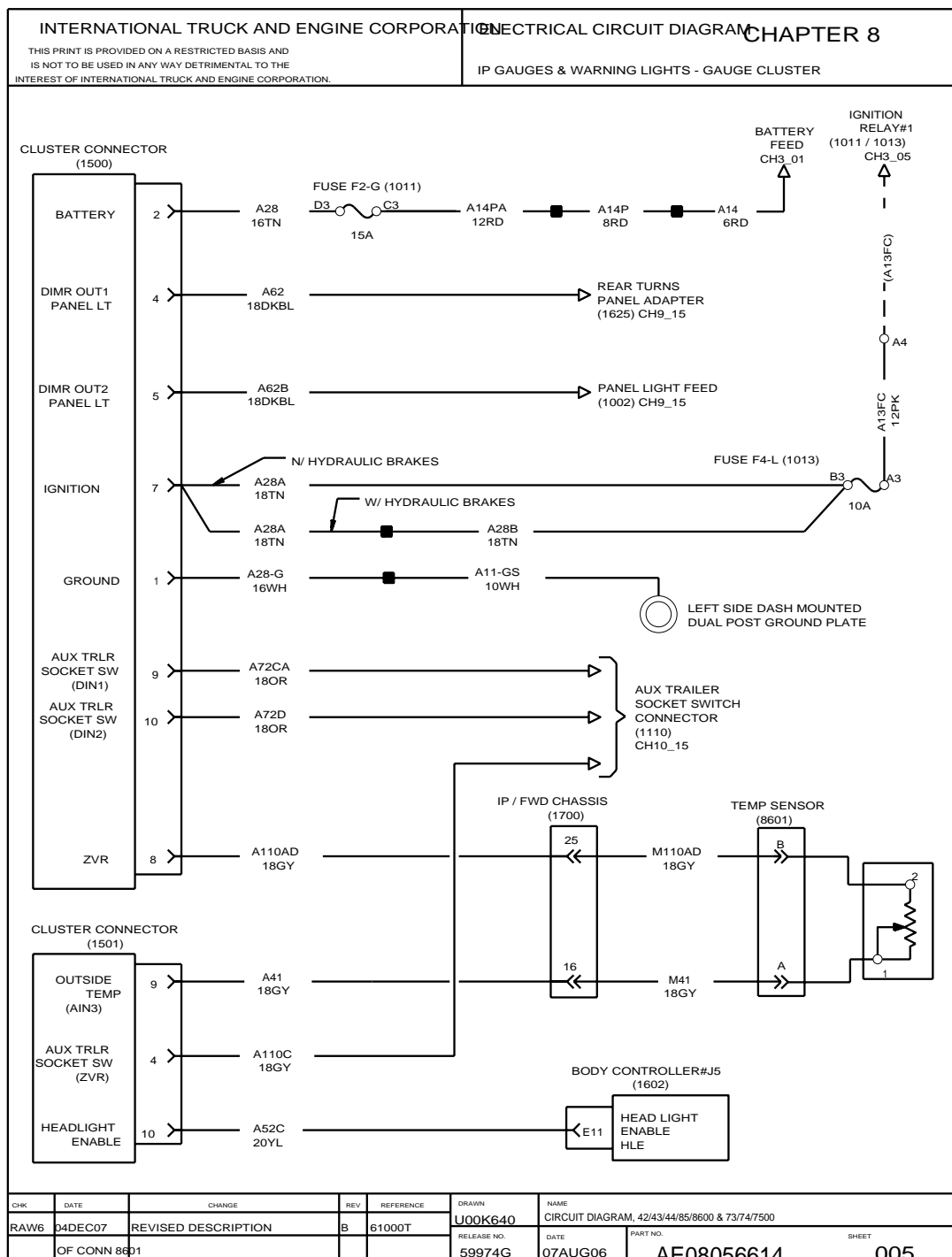


Figure 109 IP/Gauges and Warning Lights — Gauge Cluster

8.6. AIR PRESSURE INPUT CIRCUIT, P. 6

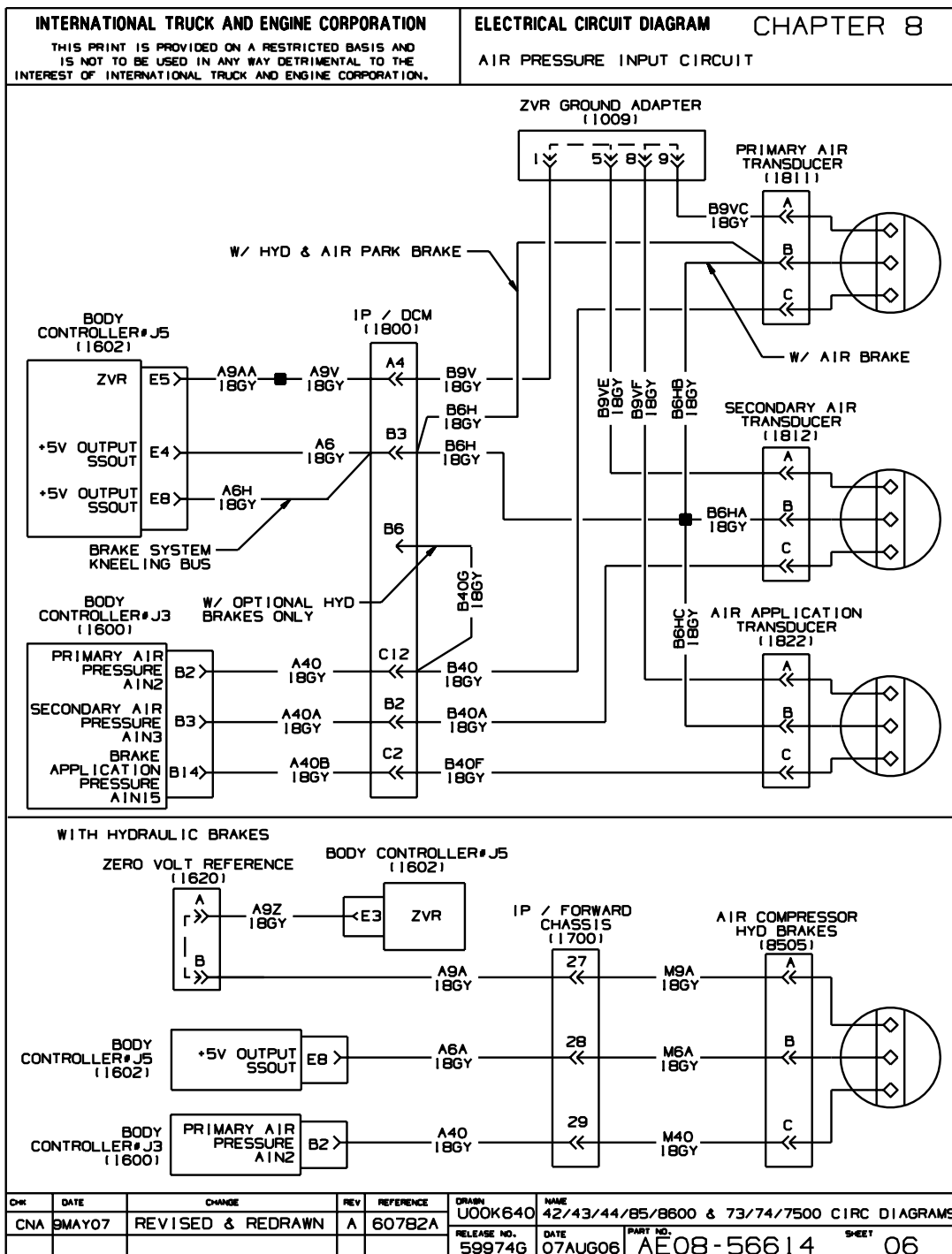


Figure 110 Air Pressure Input Circuit

8.7. AXLE TEMPERATURE, GAUGE INPUT CIRCUIT, P. 7

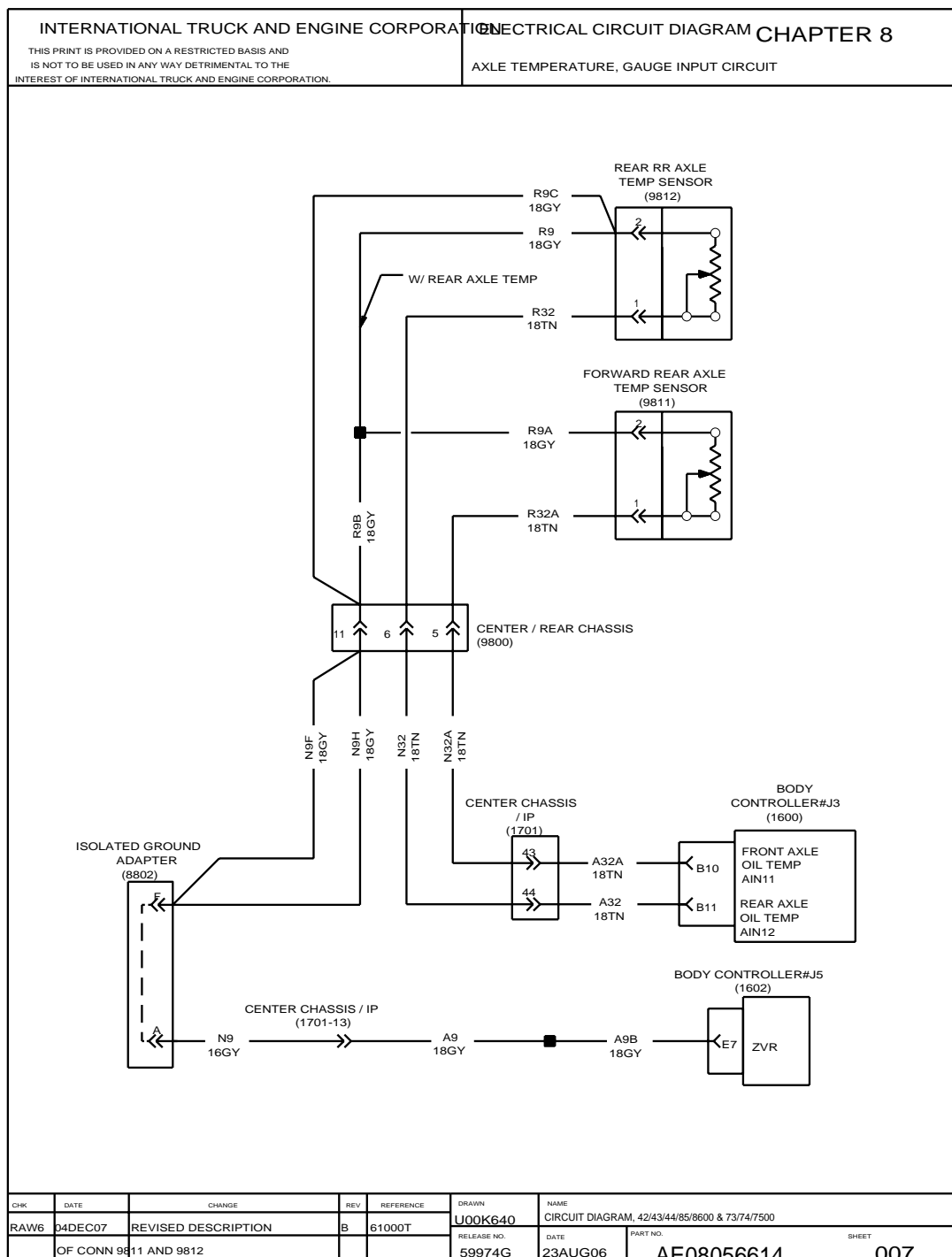


Figure 111 Axle Temperature, Gauge Input Circuit

8.8. FUEL GAUGE CIRCUITRY (SINGLE TANK), P. 8

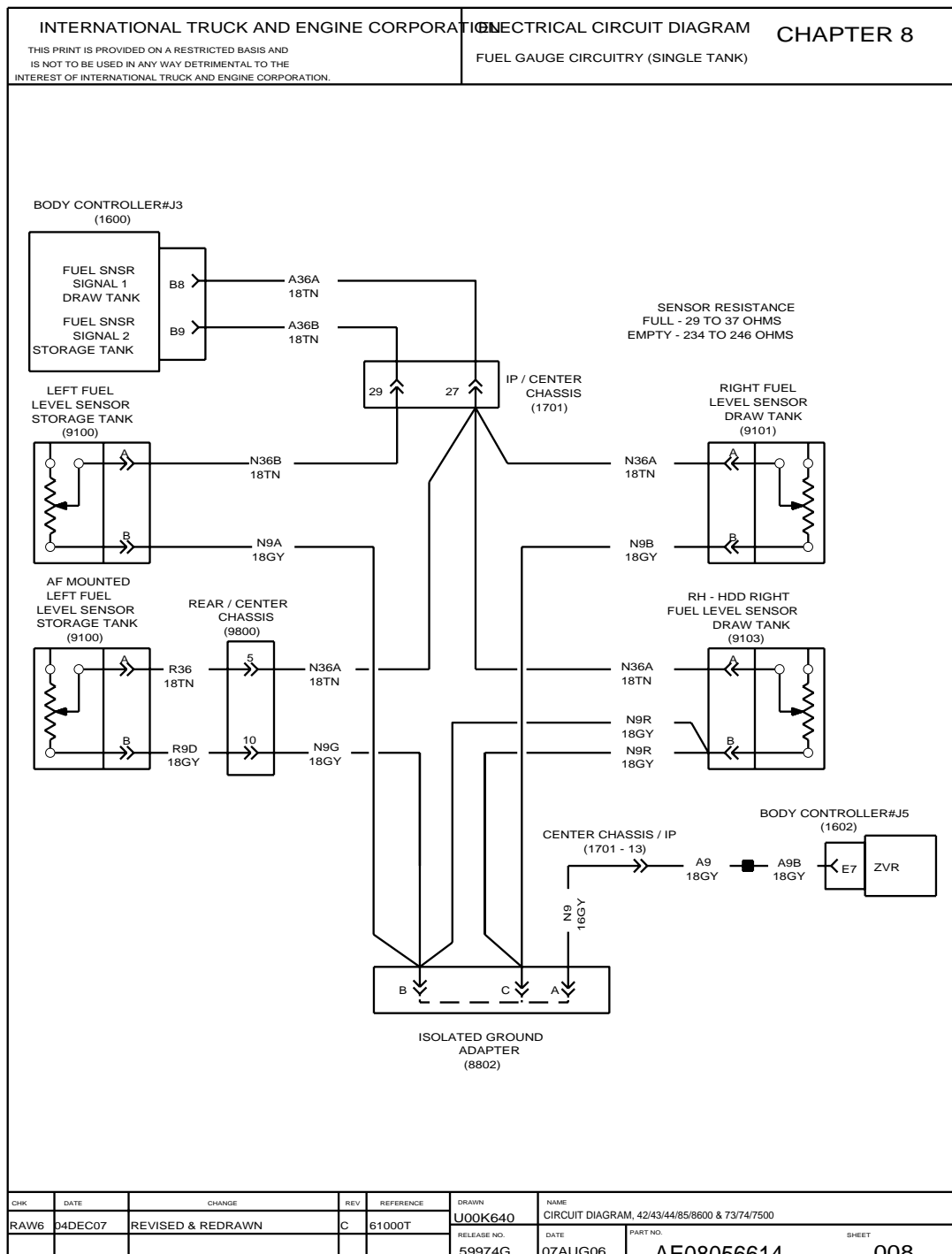


Figure 112 Fuel Gauge Circuitry (Single Tank)

8.9. DIFFERENTIAL LOCK WARNING LAMPS, P. 9

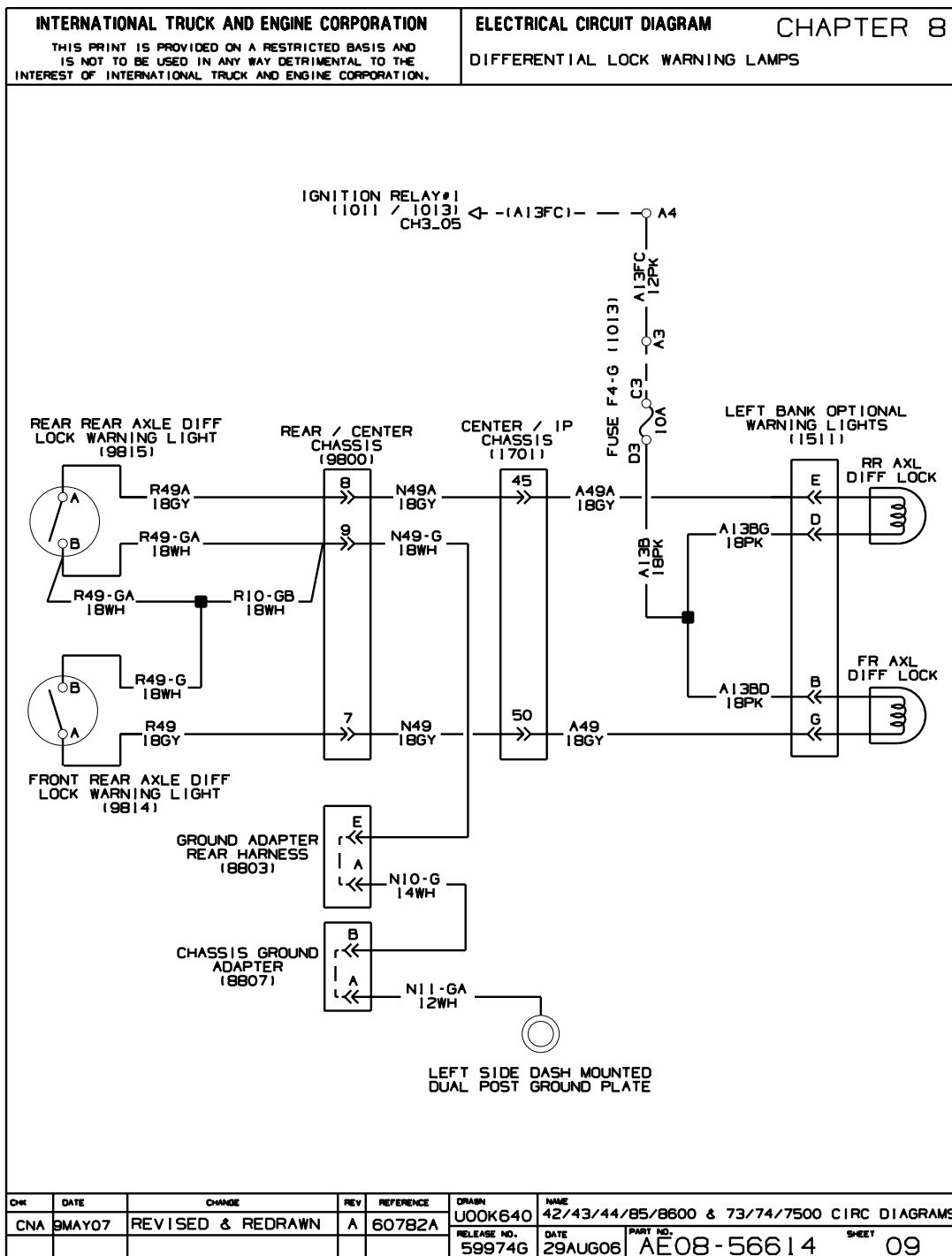


Figure 113 Differential Lock Warning Lamps

8.10. AIR PARK BRAKE AND MANUAL TRANSMISSION OIL TEMP GAUGE, P. 10

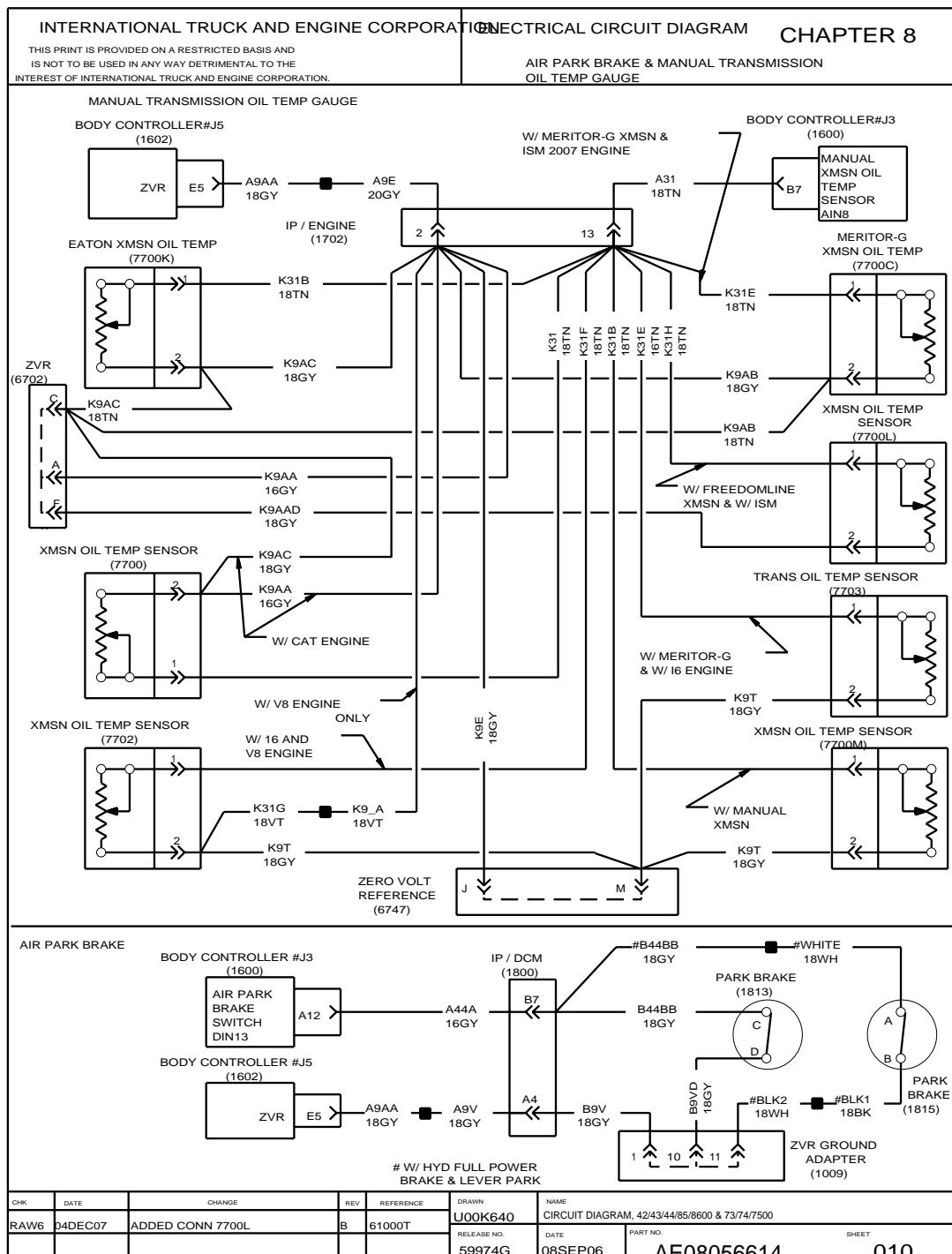


Figure 114 Air Park Brake and Manual Transmission Oil Temp Gauge

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

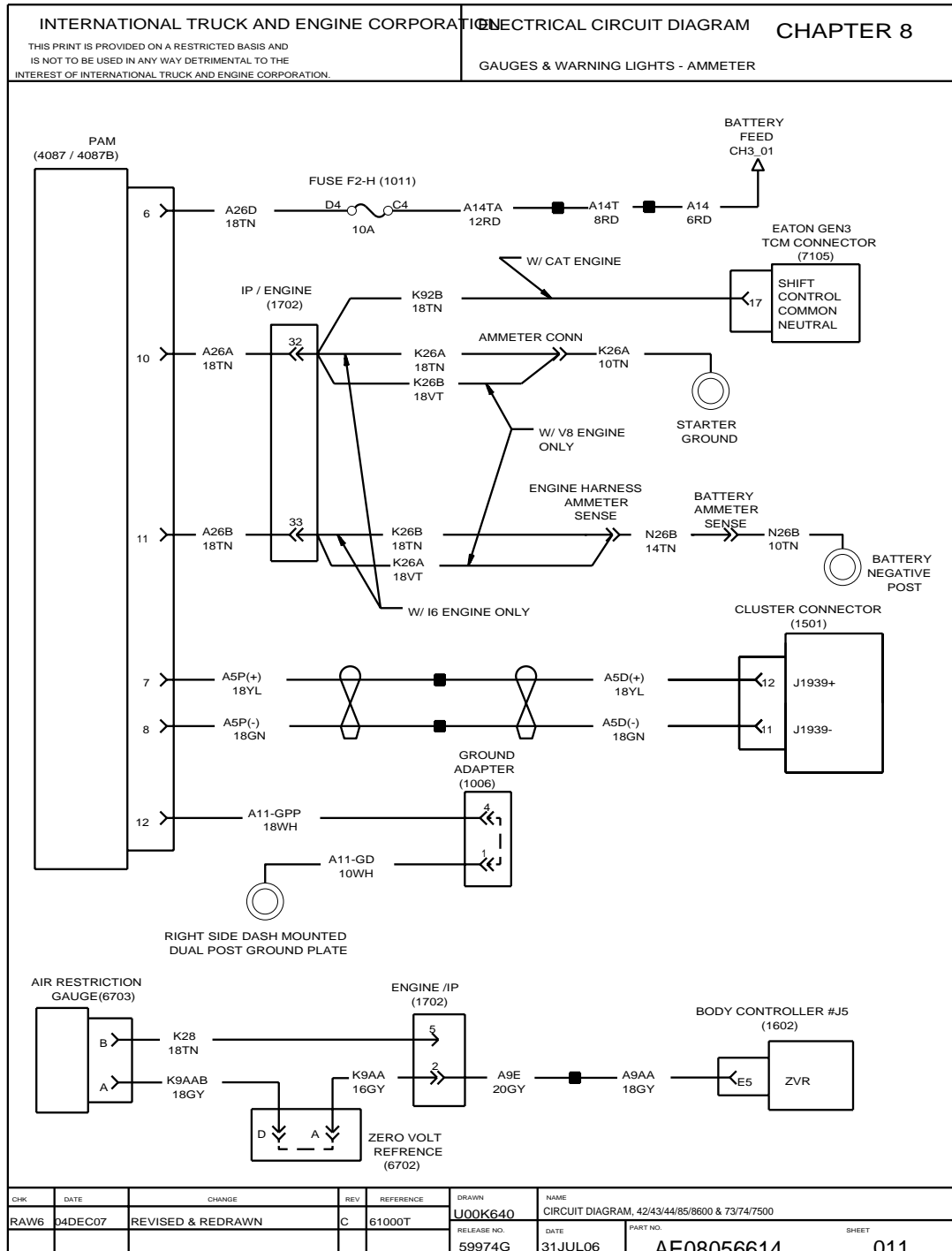


Figure 115 Gauges and Warning Lights — Ammeter

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

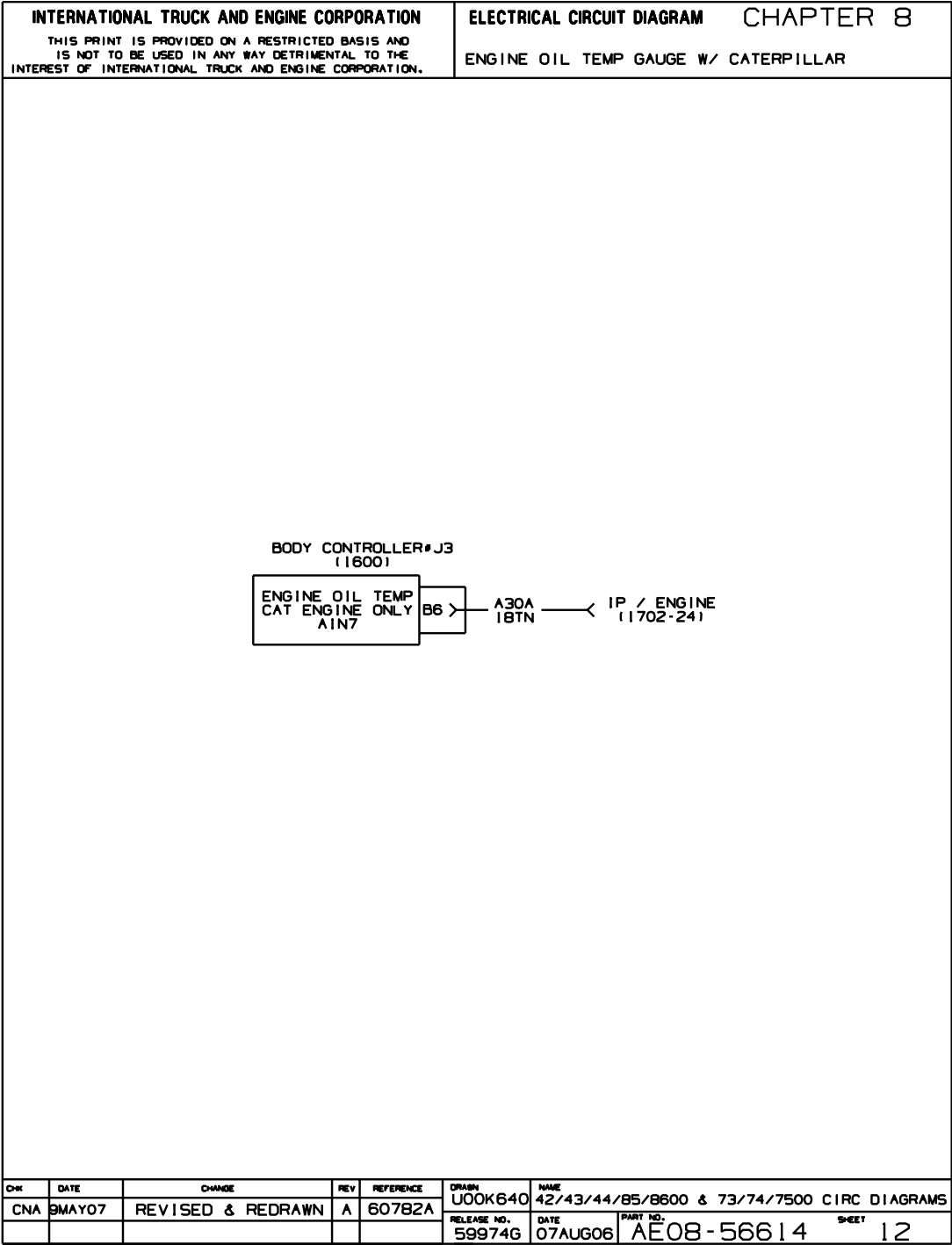


Figure 116 Engine Oil Temperature Gauge With Caterpillar

8.13. FRONT AXLE ENGAGEMENT LAMP, P. 13

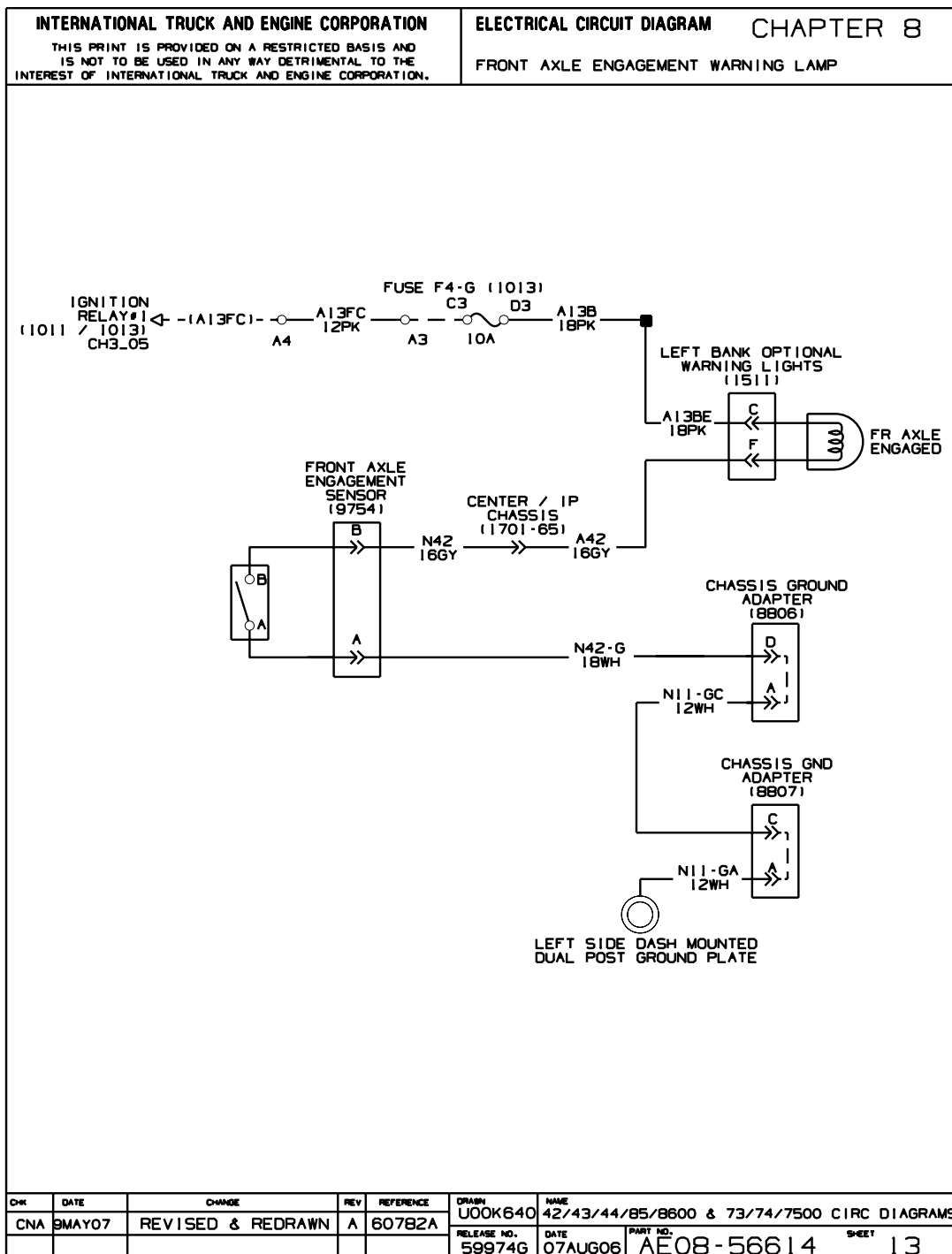


Figure 117 Front Axle Engagement Lamp

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ELECTRICAL CIRCUIT DIAGRAM

CHAPTER 8

WARNING LIGHTS - OPTIONAL

RIGHT BANK OPTIONAL WARNING LIGHTS (1510)

- A28C 18TN
- A13B 18PK
- A13BH 18PK
- A92RK 18TN
- N/AUTONEUTRAL W/ RETARDER
- A94D 18GY
- A62B 18DKBL
- A62B 18DKBL
- A92-GS 18WH
- A95-GT 18WH
- A95ET 18TN
- A95-GF 18WH
- A95PF 18TN
- A92APA 18TN
- A92-GR 18WH

W/ HYD BRAKES FUSE F4-L (1013)

FUSE F4-G (1013)

RETARDER RELAY (1019) CH11-15

BRAKE WARNING LAMP RELAY - R3 (1019) CH10-08

QUALCOMM CONN POWER (2701 - A)

QUALCOMM CONN POWER (2703 - F)

QUALCOMM CONN POWER (2701F - C)

MOBILE MAX DISCRETE (1243-B)

N/AUTONTRL W/ RETARDER

EXHAUST SYSTEM HIGH TEMP INDICATOR RD31 (HSD)

PARTICULATE TRAP INDICATOR RD32 (HSD)

AUTONEUTRAL LIGHT RELAY (1019) CH11-17

IGNITION RELAY#1 (1011 / 1013) CH3-05

GROUND ADAPTER (1003)

LEFT SIDE DASH MOUNTED DUAL POST STUD

CIR	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	RELEASE NO.	DATE	PART NO.	SHEET
CNA	MAY07	REVISED & REDRAWN	A	60782A	U00K640	42/43/44/85/B800 & 73/74/7500 CIRC DIAGRAMS	59974G	23AUG06	AE08-56614	14

Figure 118 Warning Lights — Optional

8.15. WARNING LIGHTS — OPTIONAL, P. 15

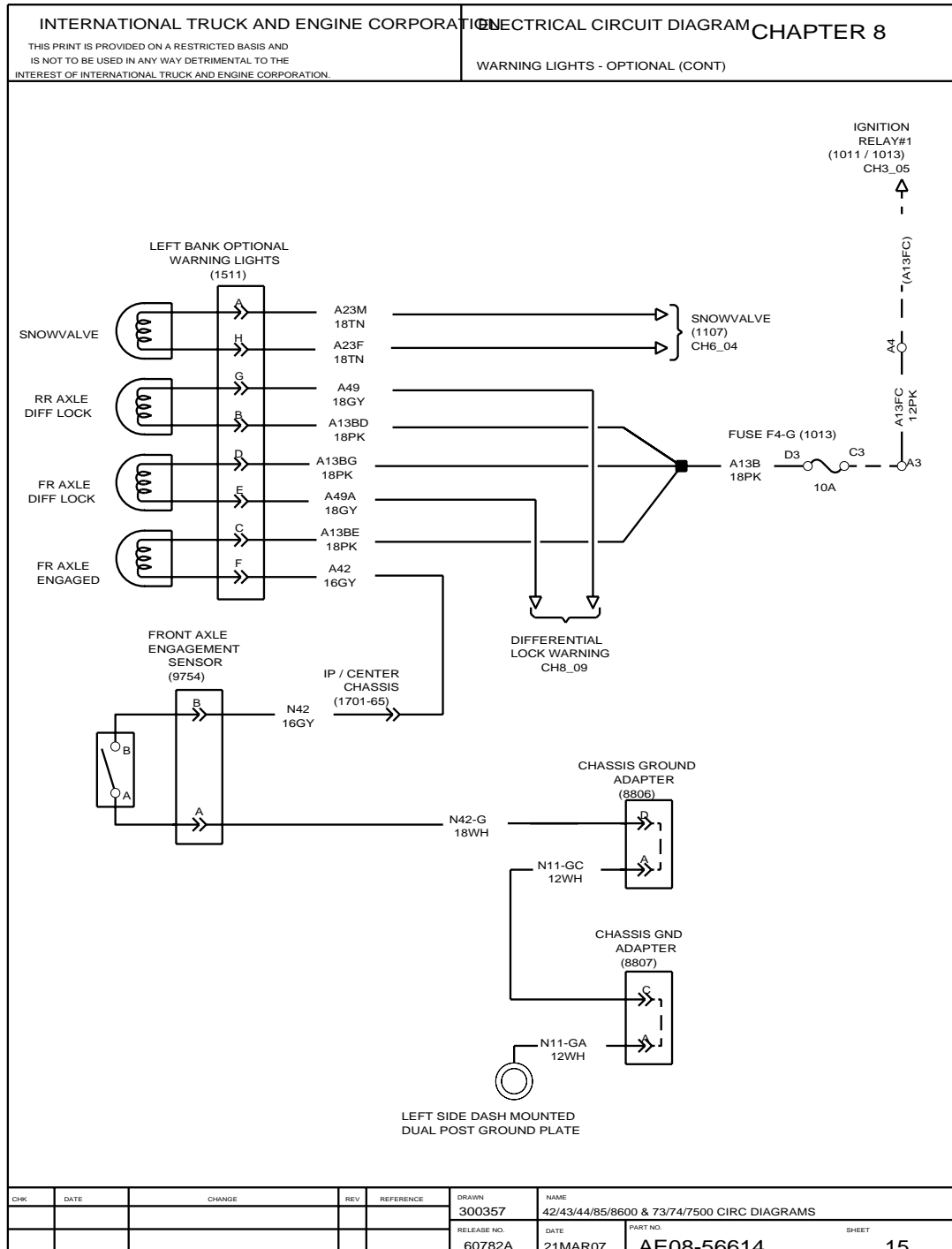


Figure 119 Warning Lights — Optional (Cont.)

8.16. LOAD MONITORING, P. 16

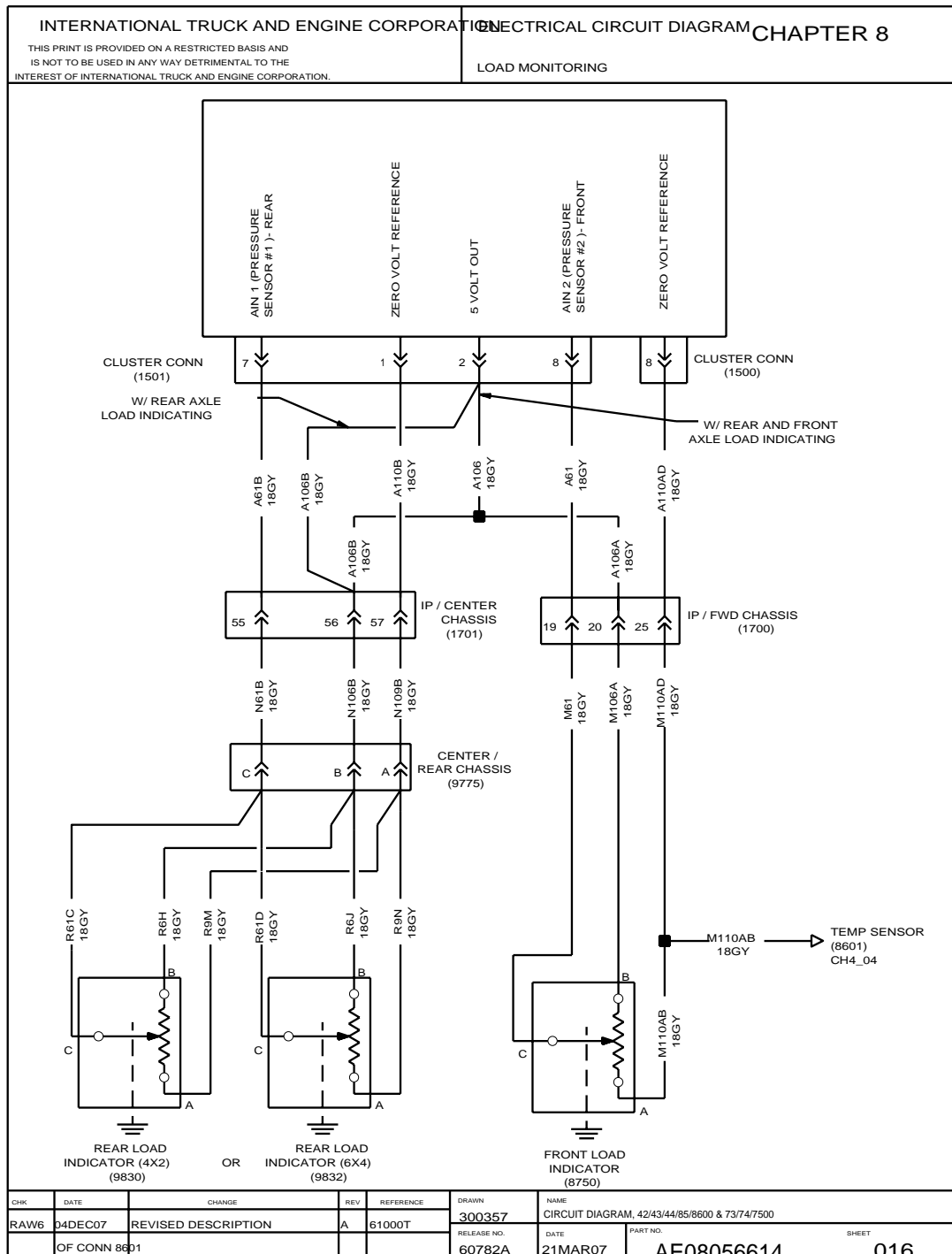


Figure 120 Load Monitoring

9. LIGHTS (CHAPTER 9)

9.1. BACKUP LIGHTS N/ ALLISON TRANSMISSION, P. 1

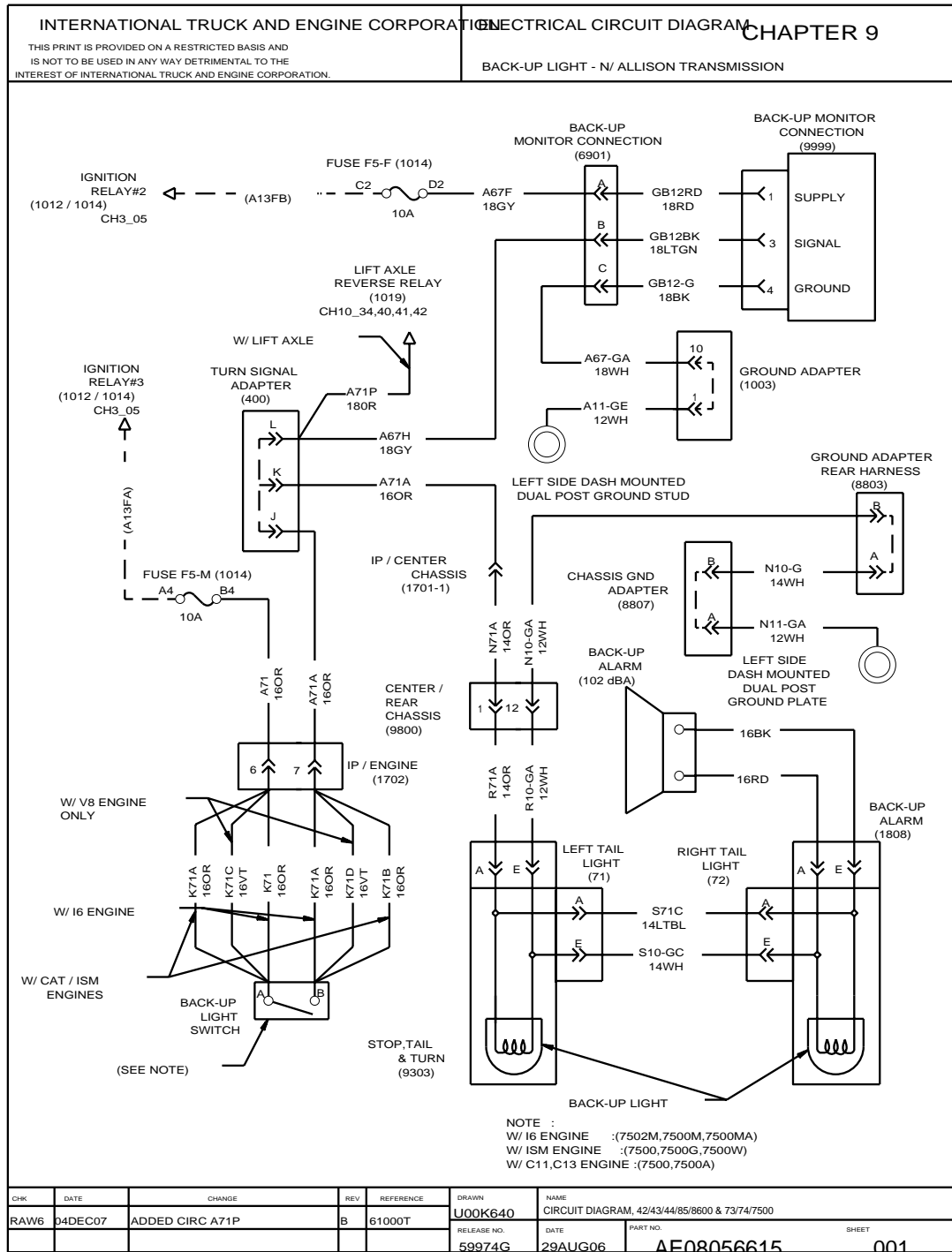


Figure 121 BackUp Lights N/ Allison Transmission

INTERNATIONAL TRUCK AND ENGINE CORPORATION ELECTRICAL CIRCUIT DIAGRAM CHAPTER 9

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CHAPTER 9

BACK-UP LIGHT - W/ ALLISON TRANSMISSION

The diagram illustrates the electrical wiring for the back-up light system. Key components include:

- IGNITION RELAY#2 (1012 / 1014)**: Connected to CH3_05.
- FUSE F5-F (1014)**: Protects the main power supply.
- TURN SIGNAL ADAPTER (400)**: Provides input signals L, K, J.
- LIFT AXLE REVERSE RELAY (1019)**: Controls the lift axle reverse signal.
- CENTER CHASSIS / REAR CHASSIS (9800)**: Distributes power to various chassis components.
- STOP TAIL & TURN (9303)**: Controls stop, tail, and turn lights.
- BACK-UP MONITOR CONNECTION (9999)**: Monitors the backup status.
- GROUND ADAPTER (1003)**: Provides ground connections.
- BACK-UP ALARM (102 dBA)**: Audible alarm for backup.
- LEFT SIDE DASH MOUNTED DUAL POST GROUND STUD**: Ground connection point.
- CHASSIS GROUND ADAPTER (8807)**: Ground adapter for chassis components.
- LEFT TAIL LIGHT** and **RIGHT TAIL LIGHT**: Main backup lighting.
- BACK-UP LAMP RELAY (1010)**: Controls the backup lamp relay.
- REVERSE WARNING**: Alert for reverse gear engagement.

Legend:

- I6 & V8 TCM W/ LCT (7151)
- I6 & V8 TCM W/ WTEC (7150/7152(IN CAB))
- ISM TCM (7150F/7150F2(IN CAB))
- CAT TCM (7150/7151(IN CAB))

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
RAW6	04DEC07	ADDED CONN REFERENCE	B	61000T	U00K640	CIRCUIT DIAGRAM, 42/43/44/85/8600 & 73/74/7500
		FOR CIRC K92-165, CIRC A71P			59974G	16AUG06

PART NO. AE08056615 SHEET 002

Figure 122 BackUp Lights W/ Allison Transmission

9.3. LIGHT SYSTEMS — CLEARANCE, MARKER, PARK, TAIL, TURN AND STOP LIGHTS, P. 3

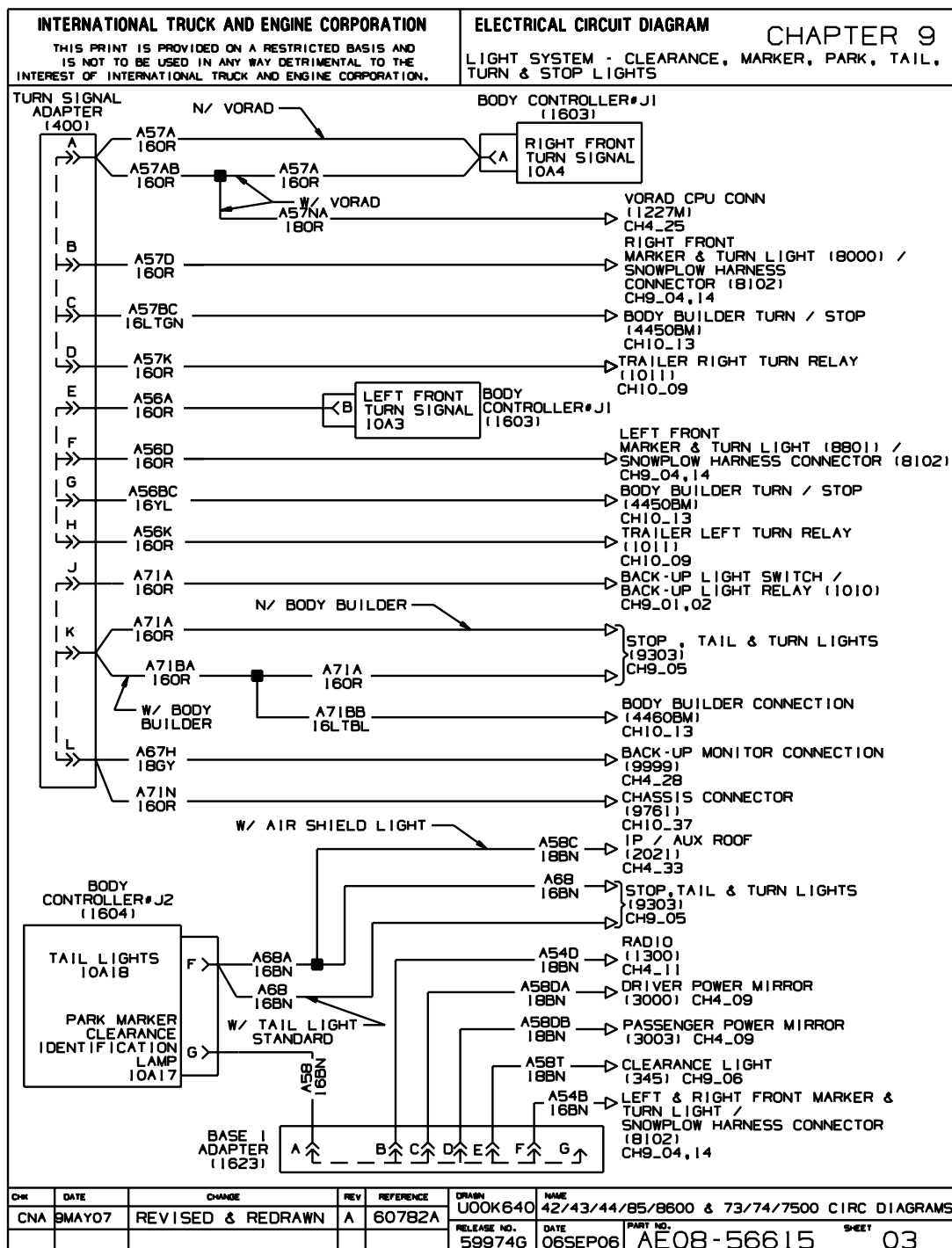


Figure 123 Light Systems — Clearance, Marker, Park, Tail, Turn and Stop Lights

9.4. LIGHT SYSTEMS — CLEARANCE, MARKER, PARK, TAIL, TURN AND STOP LIGHTS (CONT.), P. 4

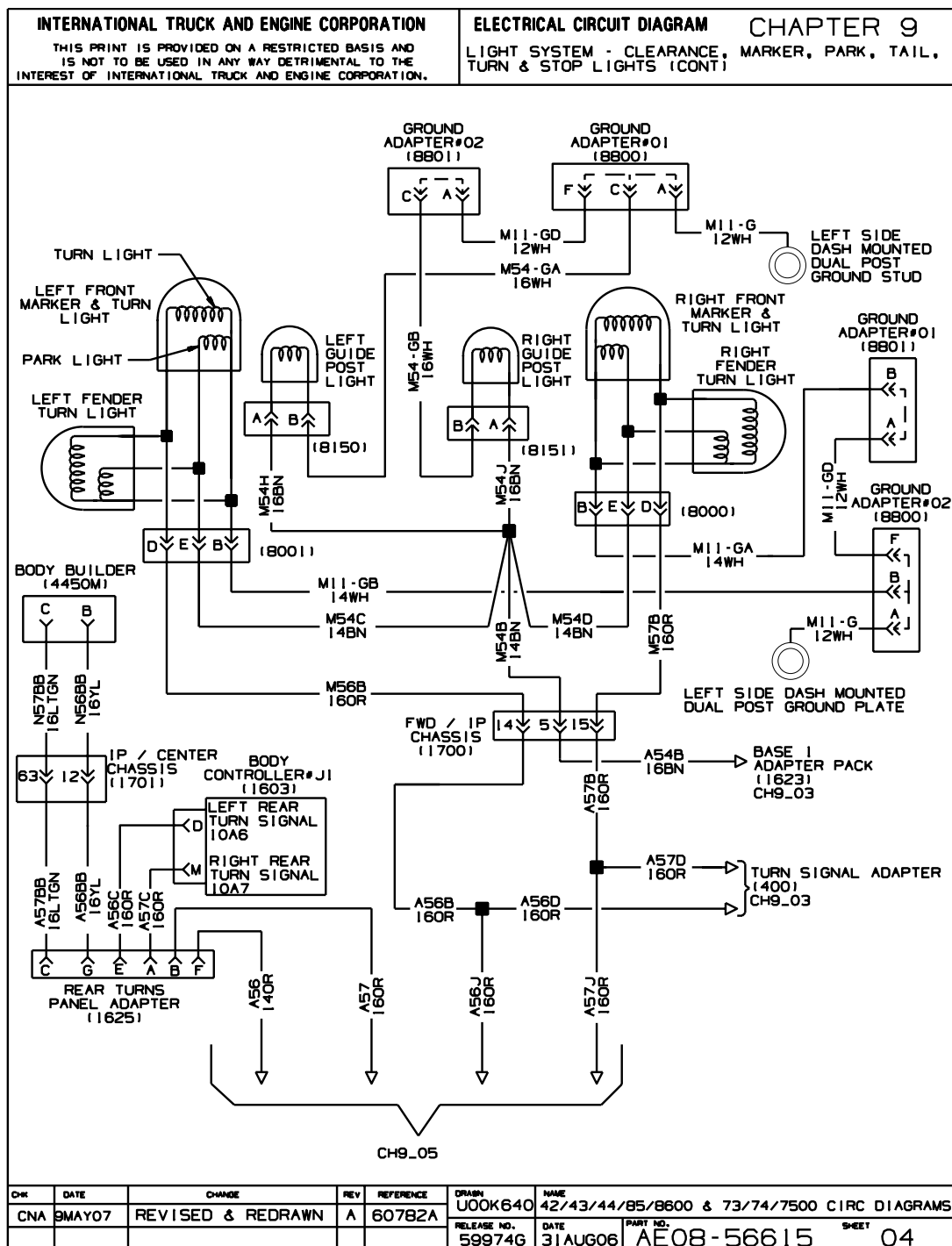


Figure 124 Light Systems — Clearance, Marker, Park, Tail, Turn and Stop Lights (Cont.)

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CHAPTER 9

LIGHT SYSTEM - CLEARANCE, MARKER, PARK, TAIL, TURN & STOP LIGHTS (CONT)

Figure 125 Light Systems — Clearance, Marker, Park, Tail, Turn and Stop Lights (Cont.)

9.6. LIGHT SYSTEMS — CLEARANCE, MARKER, PARK, TAIL, TURN AND STOP LIGHTS (CONT.), P. 6

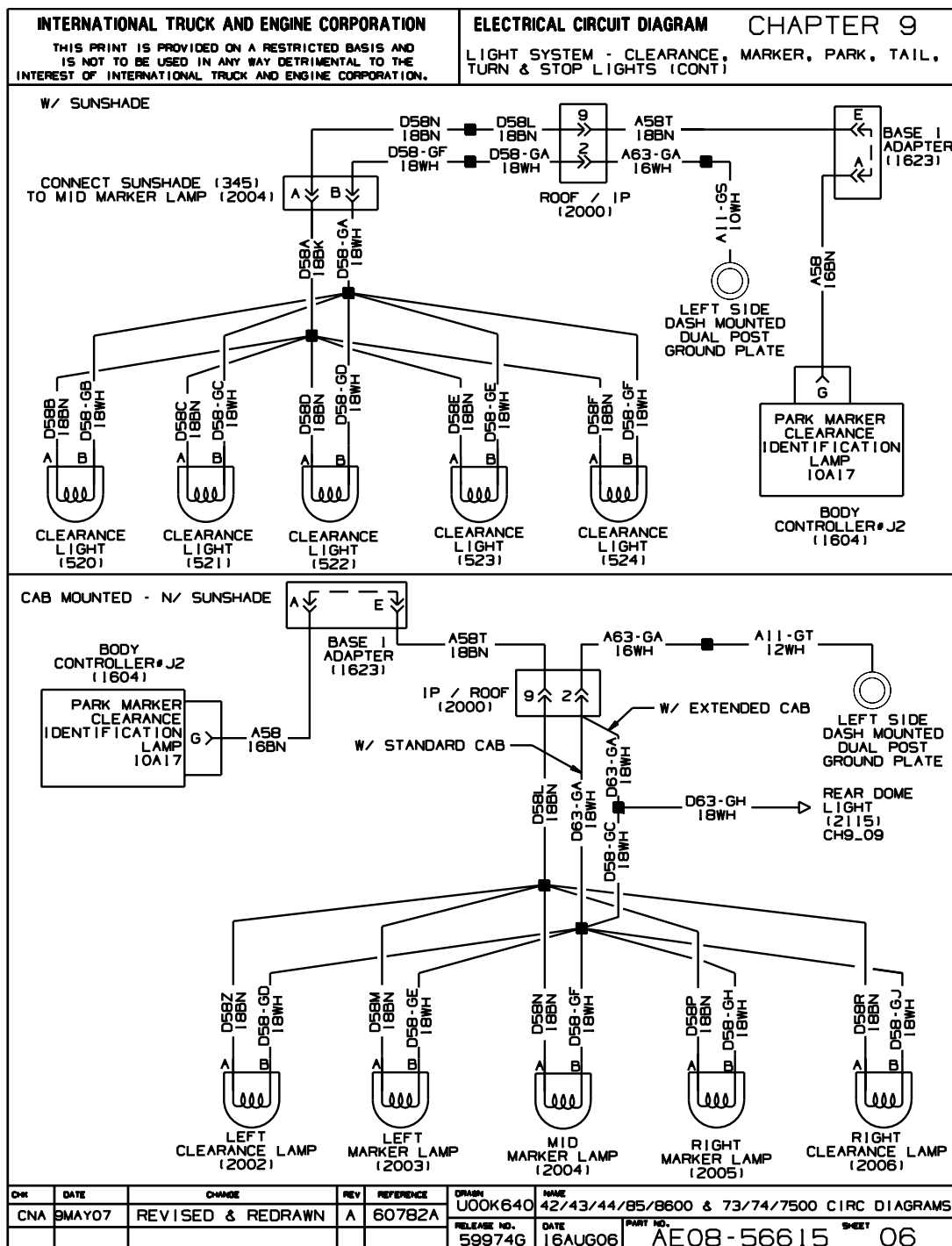


Figure 126 Light Systems — Clearance, Marker, Park, Tail, Turn and Stop Lights (Cont.)

9.7. LIGHT SYSTEMS — TURN SIGNAL AND STOP SWITCHES, P. 7

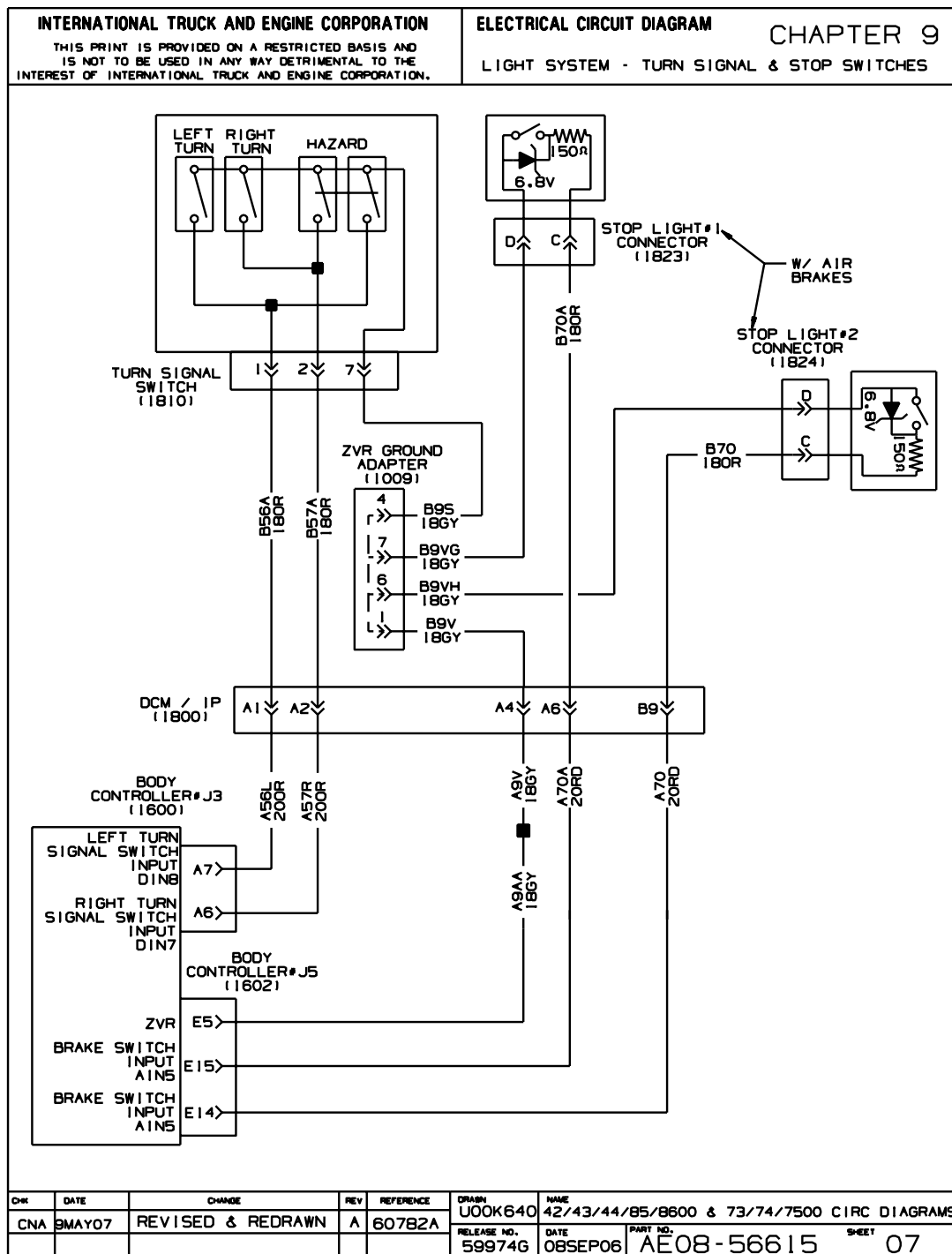


Figure 127 Light Systems — Turn Signal and Stop Switches

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CHAPTER 9

DOMESTIC LIGHT, MAP LIGHT

FRONT DOOR CIRCUITRY

W/ STANDARD TRIM

W/ PREMIUM TRIM

NOTE:

- N/ CITIZEN BAND
- W/ DUAL CITIZEN BAND
- W/ STANDARD CAB
- W/ EXTENDED / TRAVEL CREW CAB
- W/ EXTENDED CAB
- W/ TRAVEL CREW CAB

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
CNA	9MAY07	REVISED & REDRAWN	A	60782A	UOOK640	42/43/44/85/8600&73/74/7500 CIRC DIAGRAMS
					RELEASE NO.	DATE
					599746	16AUG06
					PART NO.	AE08-56615
						SHEET 08

S08322

9.9. DOME LIGHT, MAP LIGHT (CONT.), P. 9

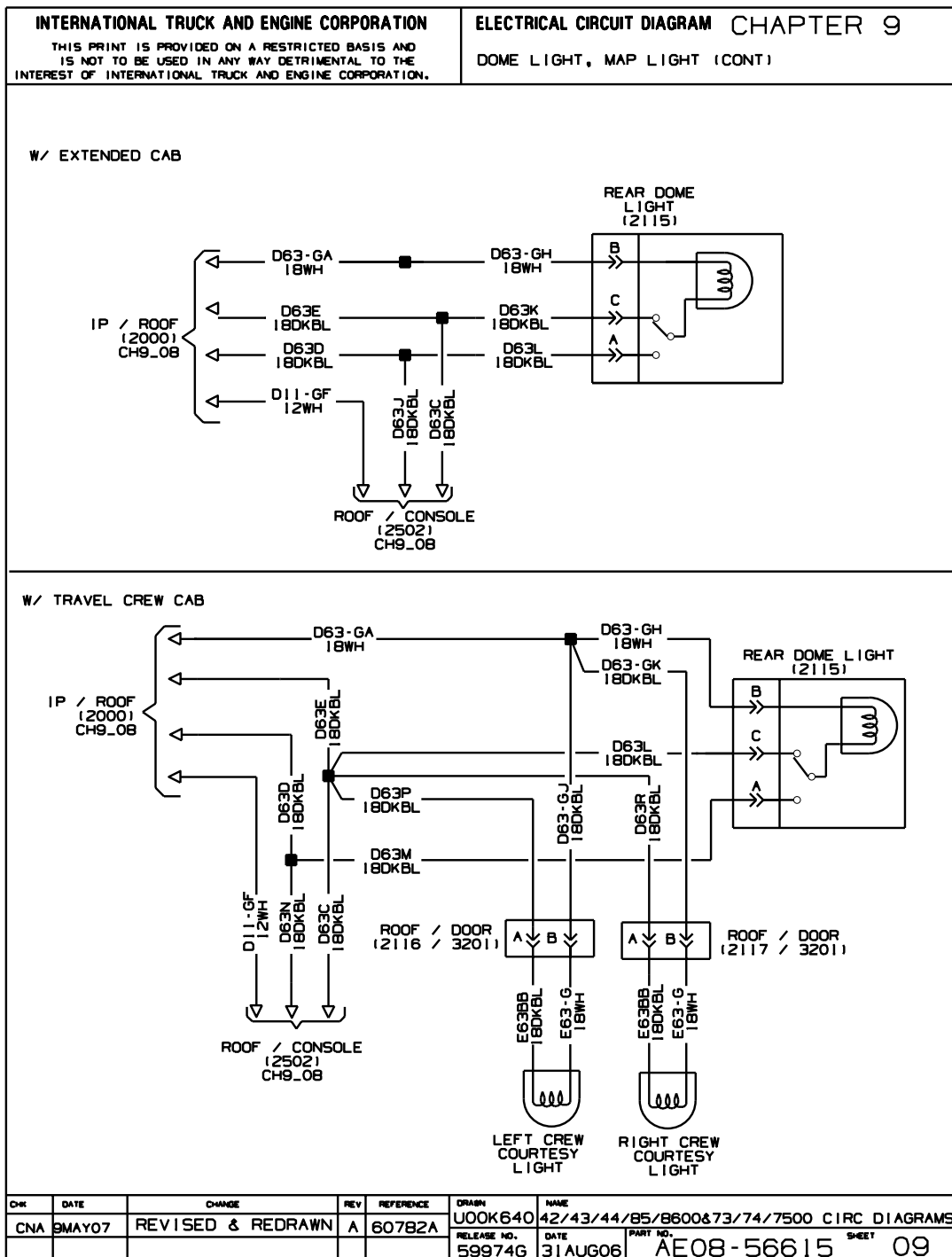


Figure 129 Dome Light, Map Light (Cont.)

9.10. DOME LIGHT, MAP LIGHT (CONT.), P. 10

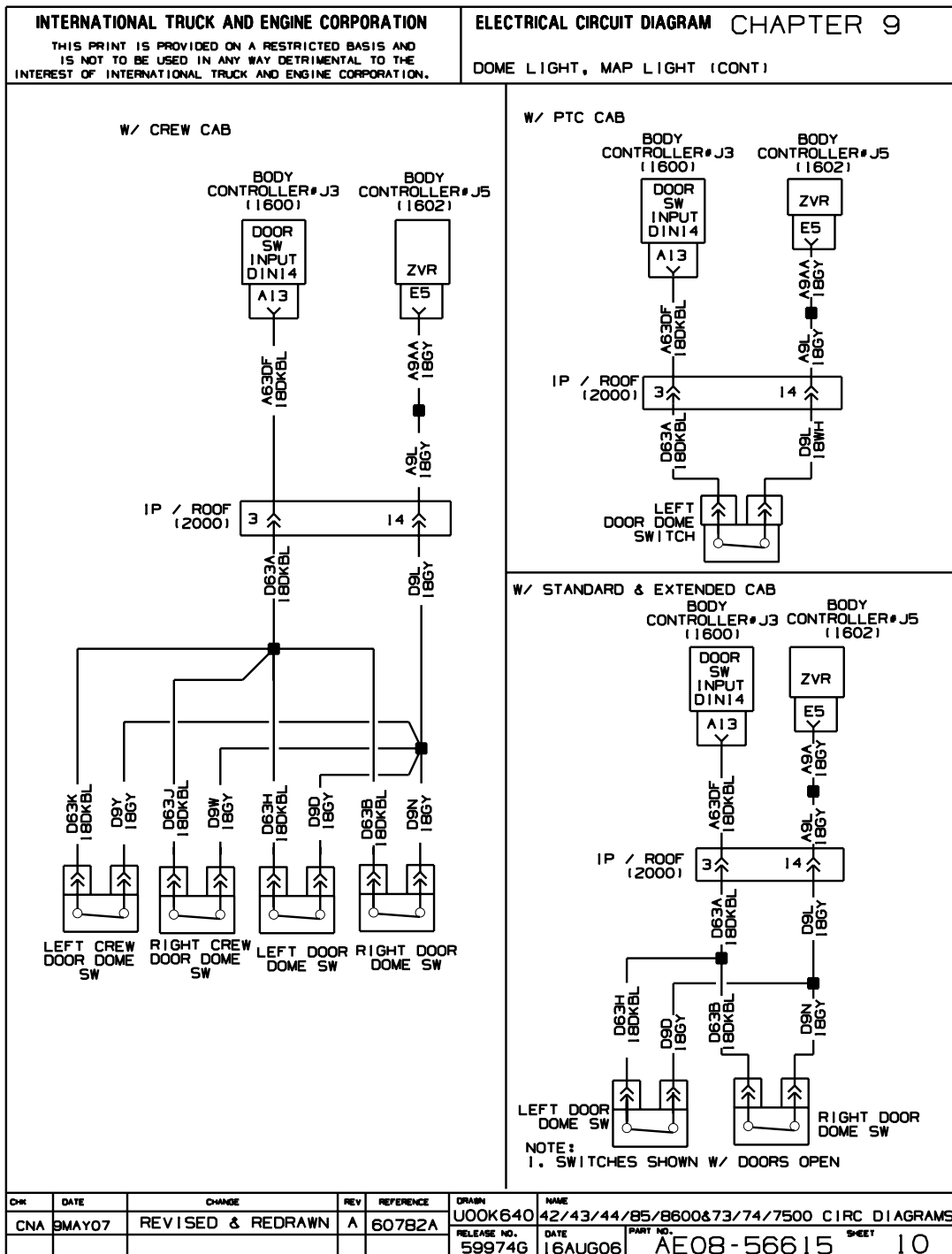


Figure 130 Dome Light, Map Light (Cont.)

9.11. FOG LIGHT AND WORK LIGHT, P. 11

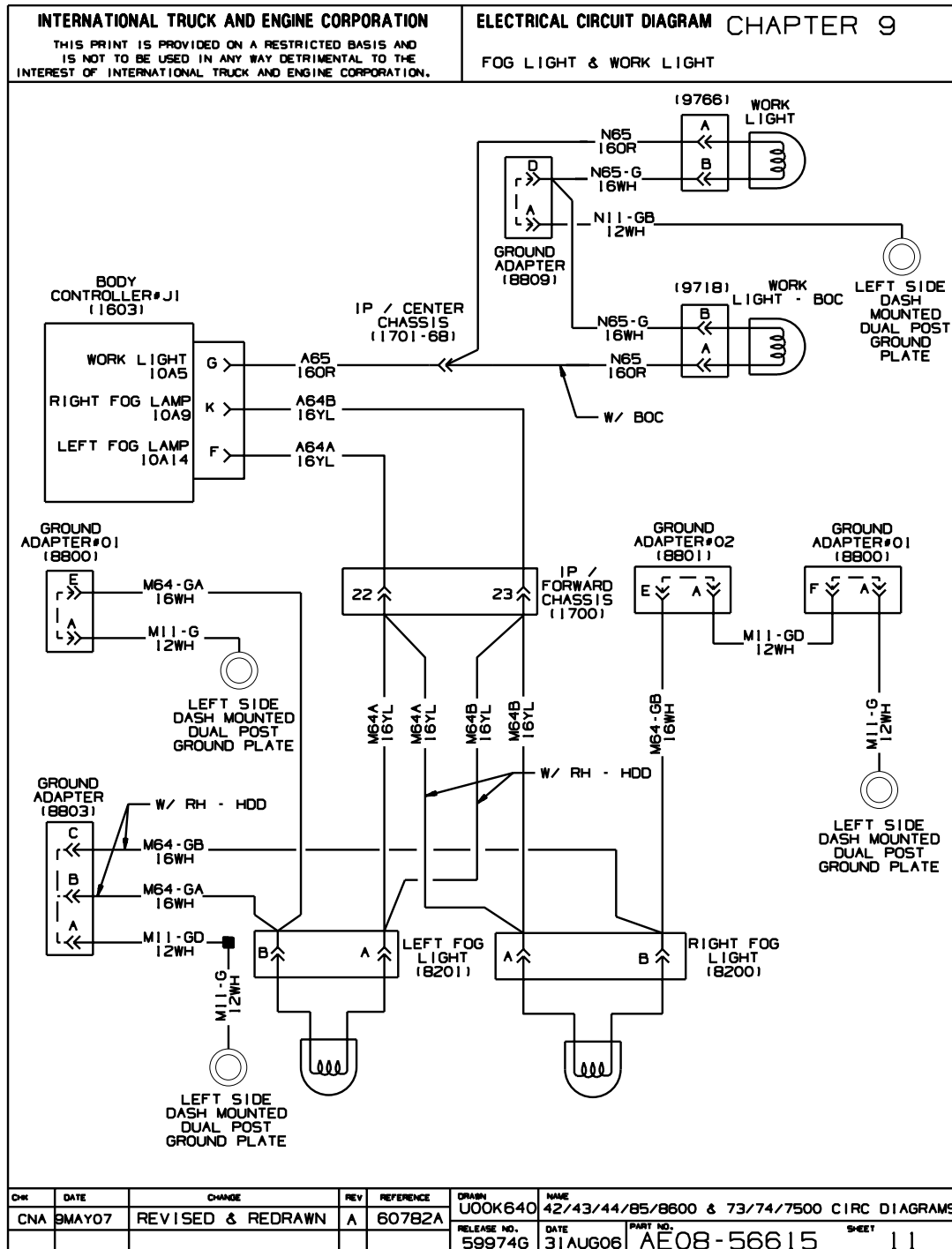


Figure 131 Fog Light and Work Light

9.12. HEADLIGHTS, P. 12

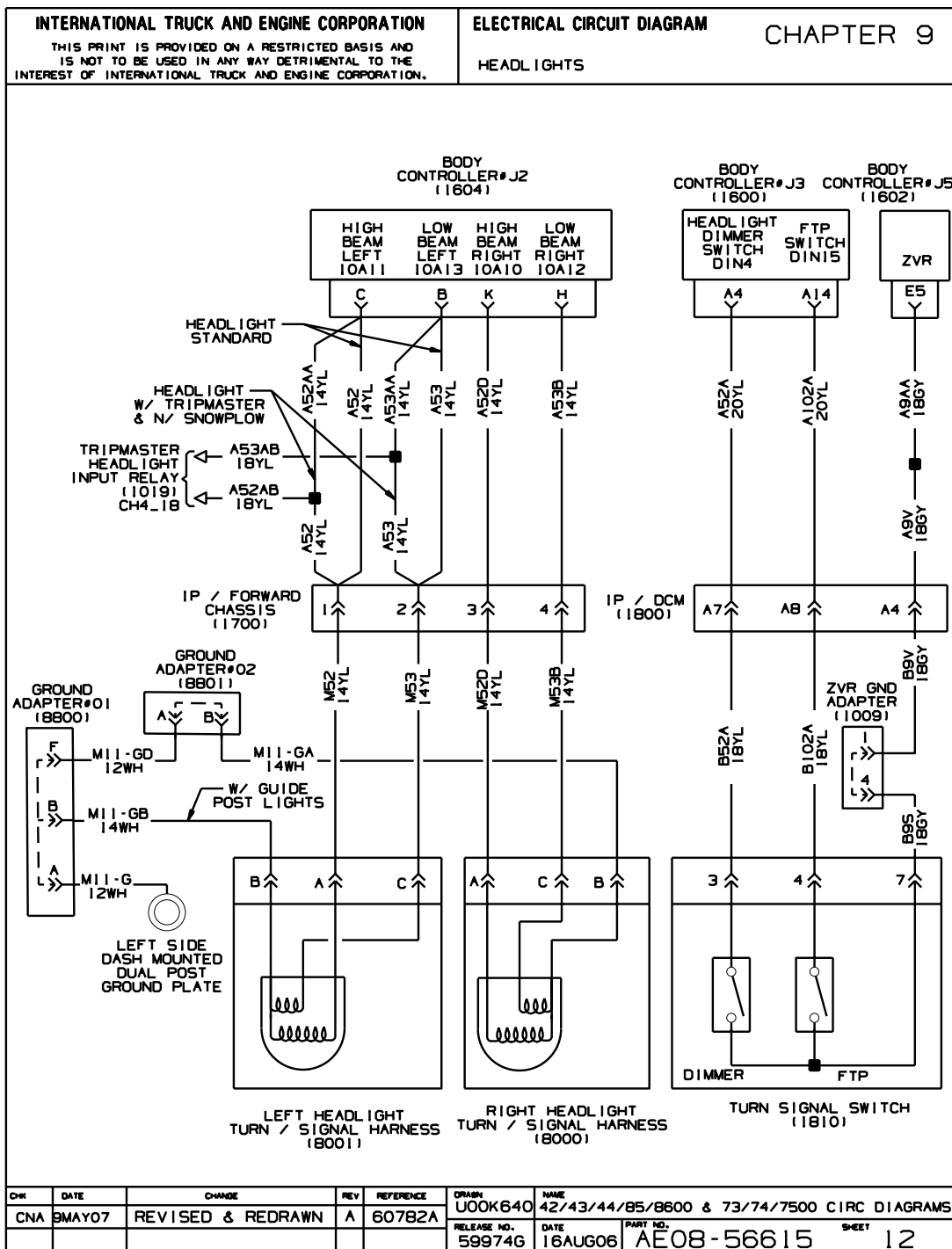


Figure 132 Headlights

9.13. AUX. HEADLIGHTS, SNOW PLOW LIGHTS, P. 13

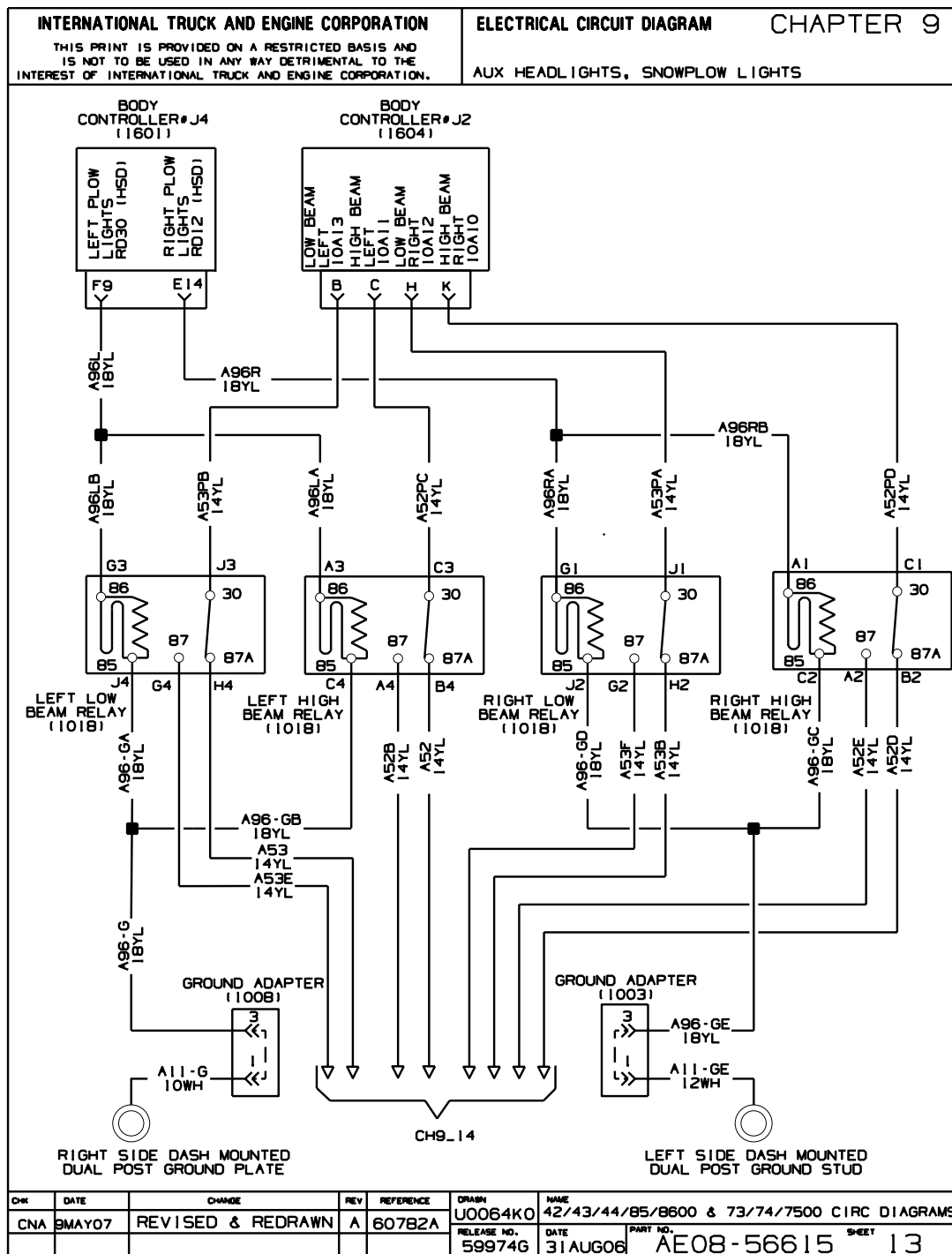


Figure 133 Aux. Headlights, Snow Plow Lights

9.14. AUX. HEADLIGHTS, SNOW PLOW LIGHTS (CONT), P. 14

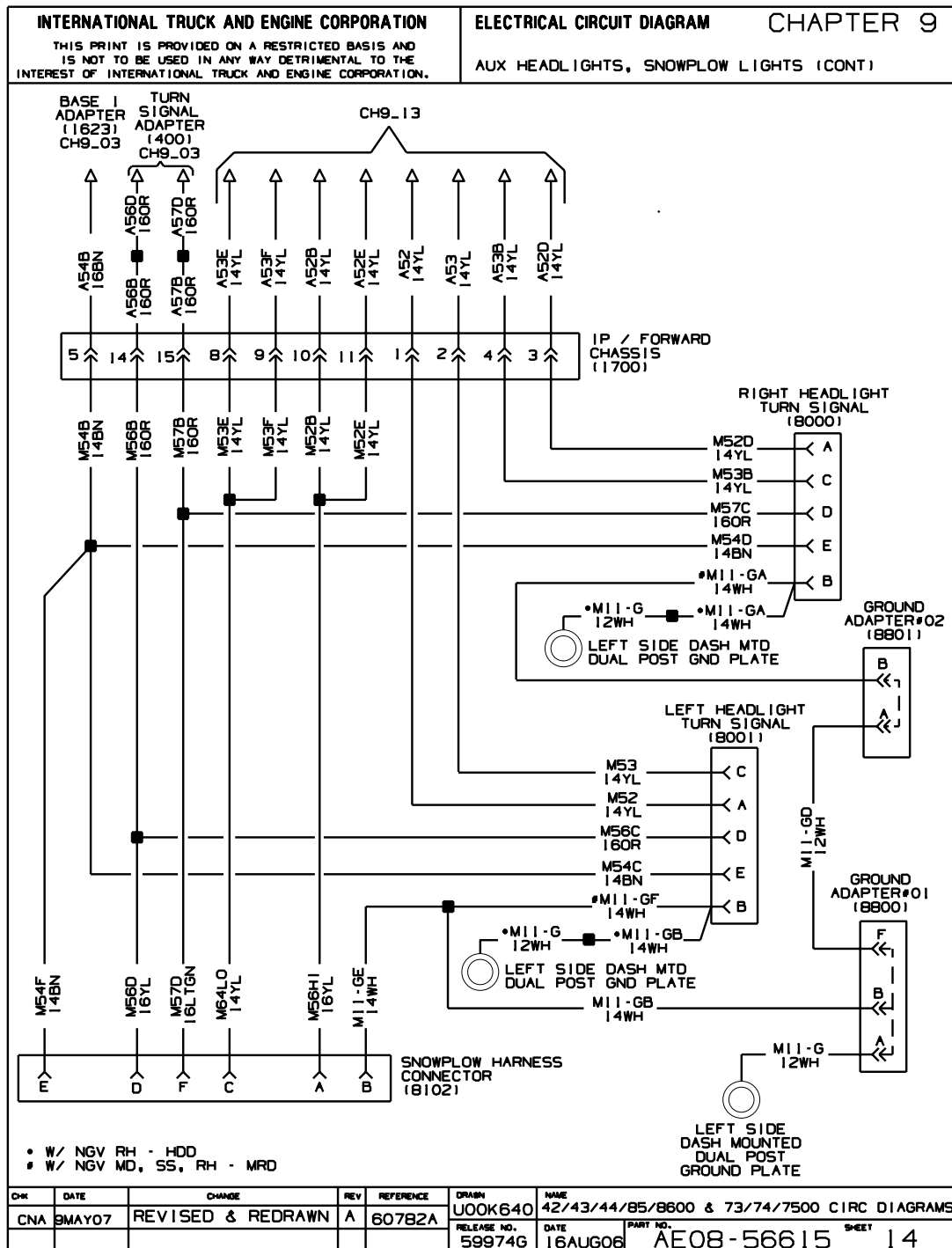


Figure 134 Aux. Headlights, Snow Plow Lights (Cont)

9.15. PANEL LIGHTS, P. 15

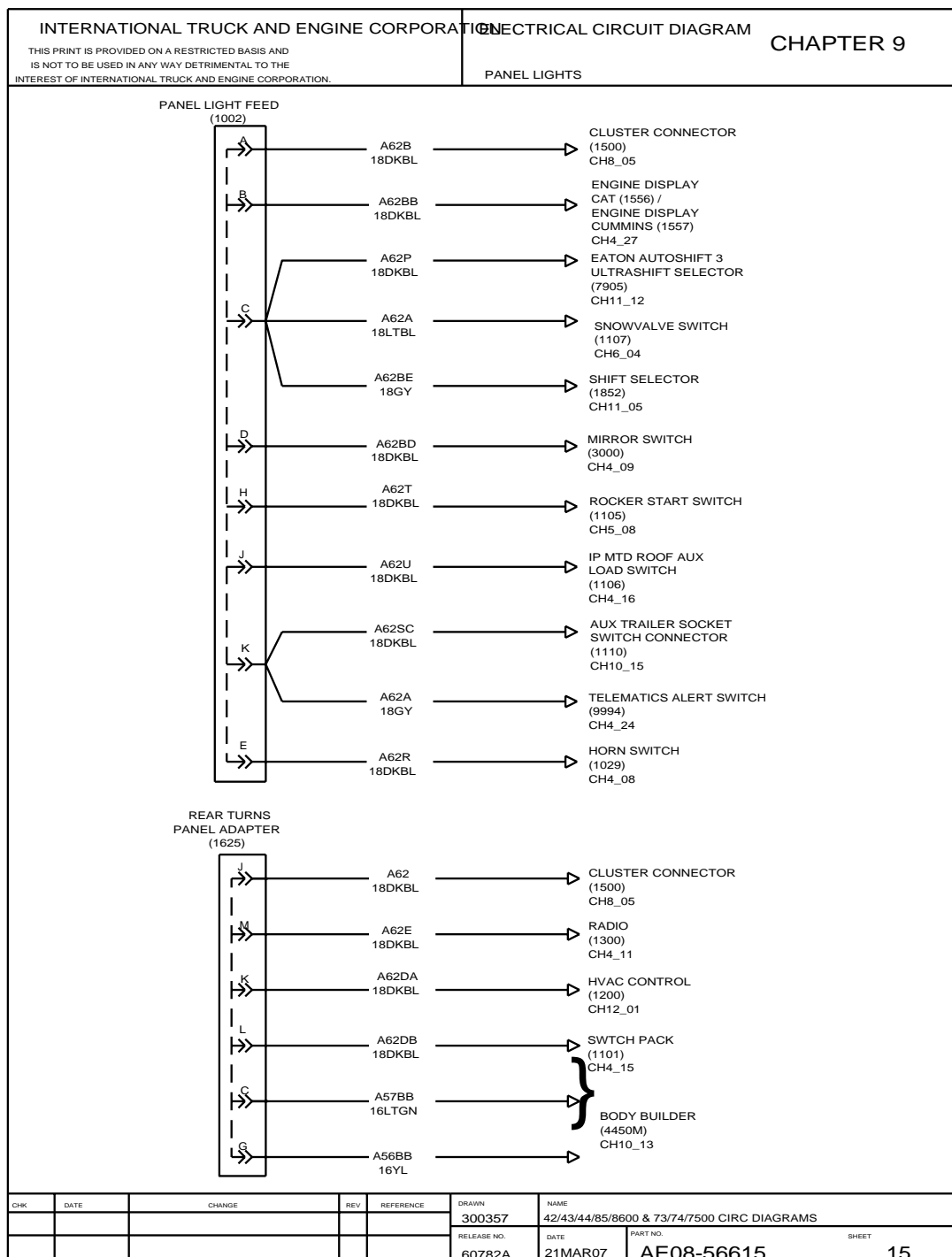


Figure 135 Panel Lights

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ELECTRICAL CIRCUIT DIAGRAM

CHAPTER 10

ABS - BENDIX AIR (CONT)

ABS#2
(1401)

IP / FORWARD
CHASSIS
(1700)

(8500)

BENDIX LEFT
ABS MODULATOR

<p>PMV SA LEFT HLD</p> <p>PMV SA LEFT REL</p> <p>PMV SA LEFT CMN</p>	<p>1)</p> <p>2)</p> <p>3)</p>	<p>A94B 16TN</p> <p>A94 16GY</p> <p>A94A 16GY</p>	<p>29</p> <p>27</p> <p>28</p>	<p>←</p> <p>←</p> <p>←</p>	<p>M94B 18GY</p> <p>M94 18GY</p> <p>M94A 18GY</p>	<p>C</p> <p>A</p> <p>B</p>	
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(8502A)

BENDIX LEFT
FRONT AIR ABS
SPEED SENSOR

<p>WSS SA LEFT (-)</p> <p>WSS SA LEFT (+)</p>	<p>8)</p> <p>5)</p>	<p>A94D 16GY</p> <p>A94C 16GY</p>	<p>31</p> <p>30</p>	<p>←</p> <p>←</p>	<p>M94D 18GY</p> <p>M94C 18GY</p>	<p>2</p> <p>1</p>	
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(8501)

BENDIX RIGHT
ABS MODULATOR

<p>PMV SA RIGHT REL</p> <p>PMV SA RIGHT CMN</p> <p>PMV SA RIGHT HLD</p>	<p>7)</p> <p>6)</p> <p>4)</p>	<p>A94H 16GY</p> <p>A94J 16GY</p> <p>A94K 16GY</p>	<p>34</p> <p>35</p> <p>36</p>	<p>←</p> <p>←</p> <p>←</p>	<p>M94H 18GY</p> <p>M94J 18GY</p> <p>M94K 18GY</p>	<p>A</p> <p>B</p> <p>C</p>	
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(8503A)

BENDIX RIGHT
FRONT AIR ABS
SPEED SENSOR

<p>WSS SA RIGHT (+)</p> <p>WSS SA RIGHT (-)</p>	<p>11)</p> <p>14)</p>	<p>A94E 16GY</p> <p>A94F 16GY</p>	<p>32</p> <p>33</p>	<p>←</p> <p>←</p>	<p>M94E 18GY</p> <p>M94F 18GY</p>	<p>1</p> <p>2</p>	
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CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
CNA	9MAY07	REVISED & REDRAWN	A	60782A	U00K640	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS
					RELEASE NO.	DATE
					59974G	07AUG06
					PART NO.	SHEET
					AE08-56616	02

Figure 137 ABS — Bendix Air (Cont.)

10.3. ABS — BENDIX AIR, P. 3

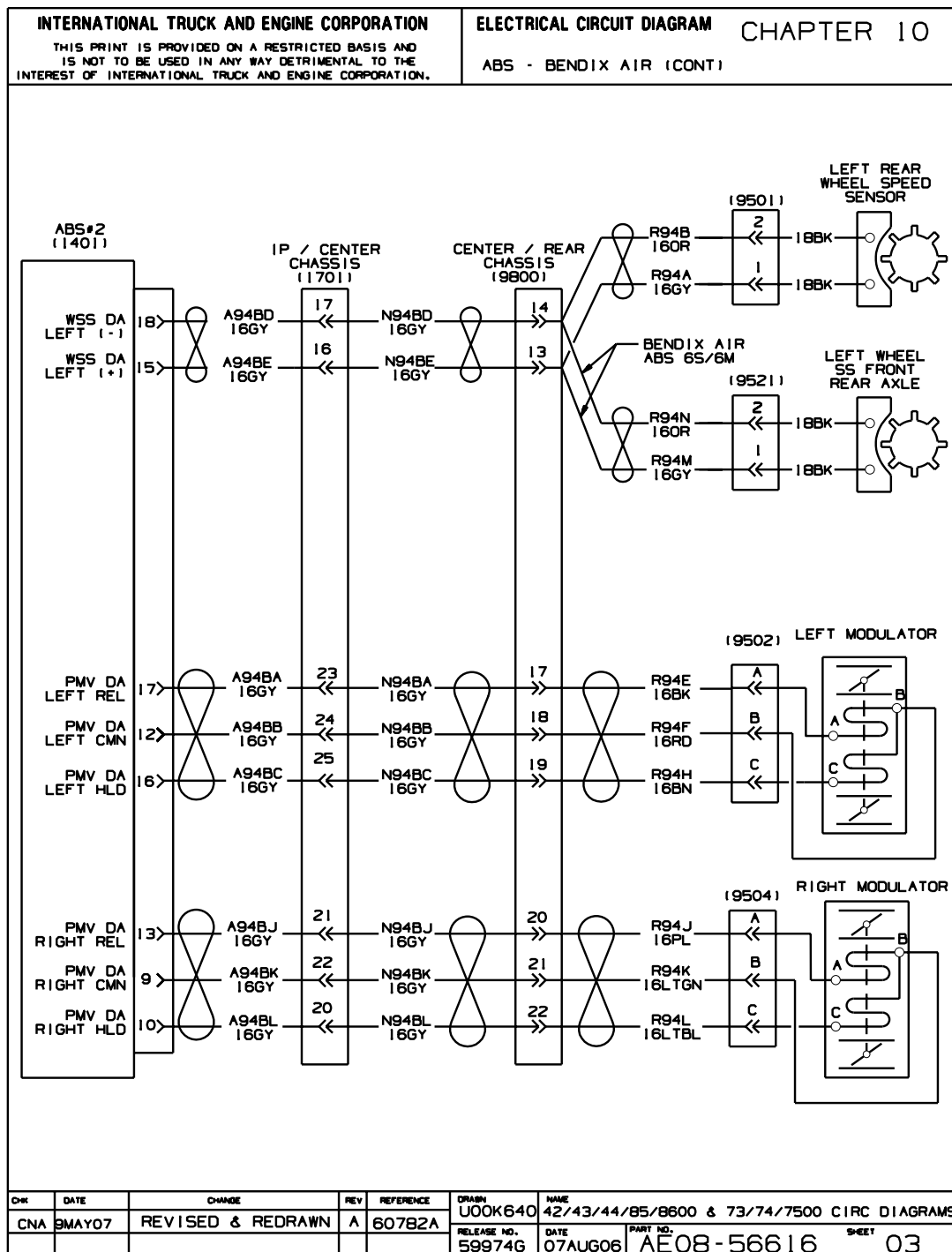


Figure 138 ABS — Bendix Air (Cont.)

10.4. ABS — WABCO AIR, P. 4

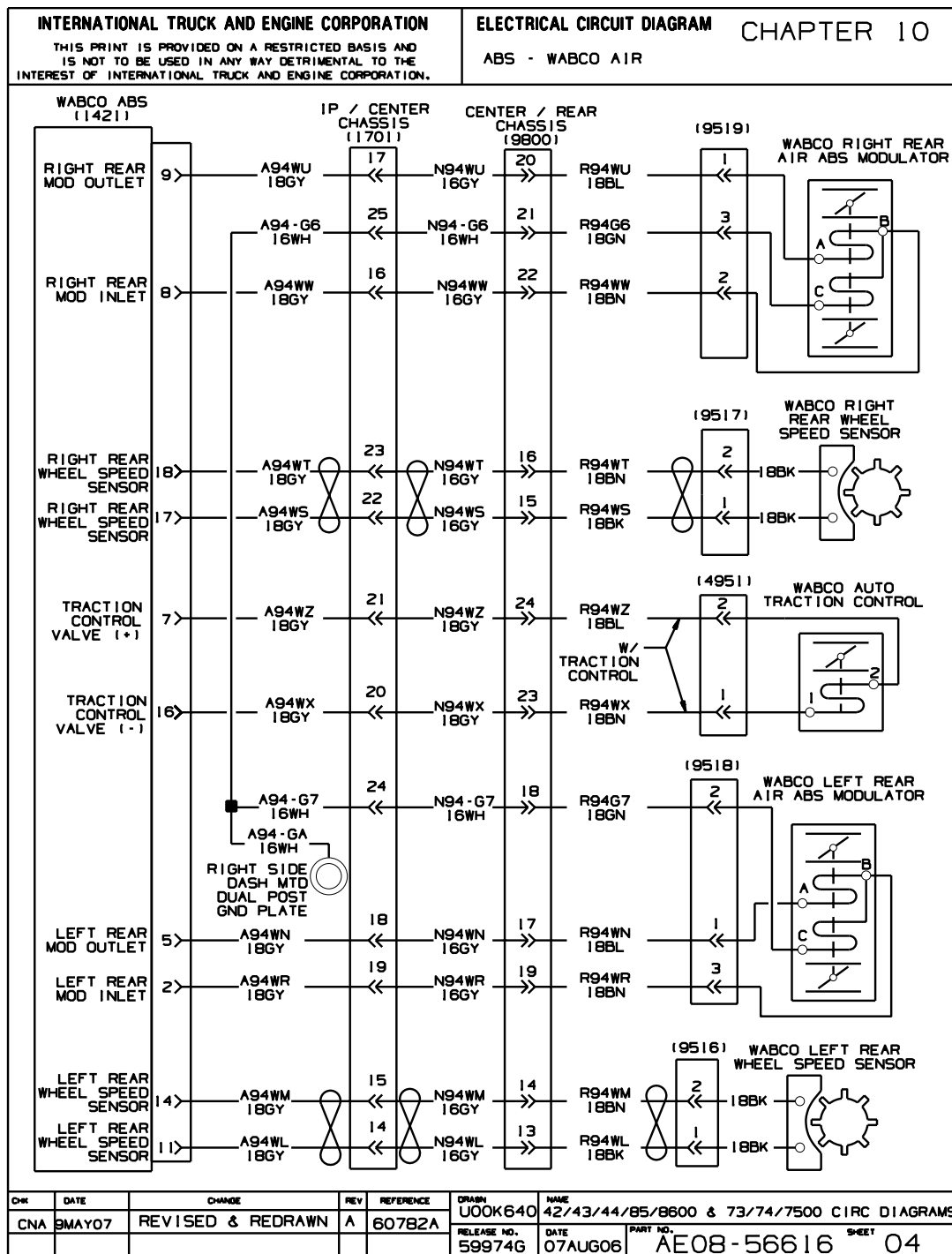


Figure 139 ABS — Wabco Air

10.5. ABS — WABCO AIR, P. 5

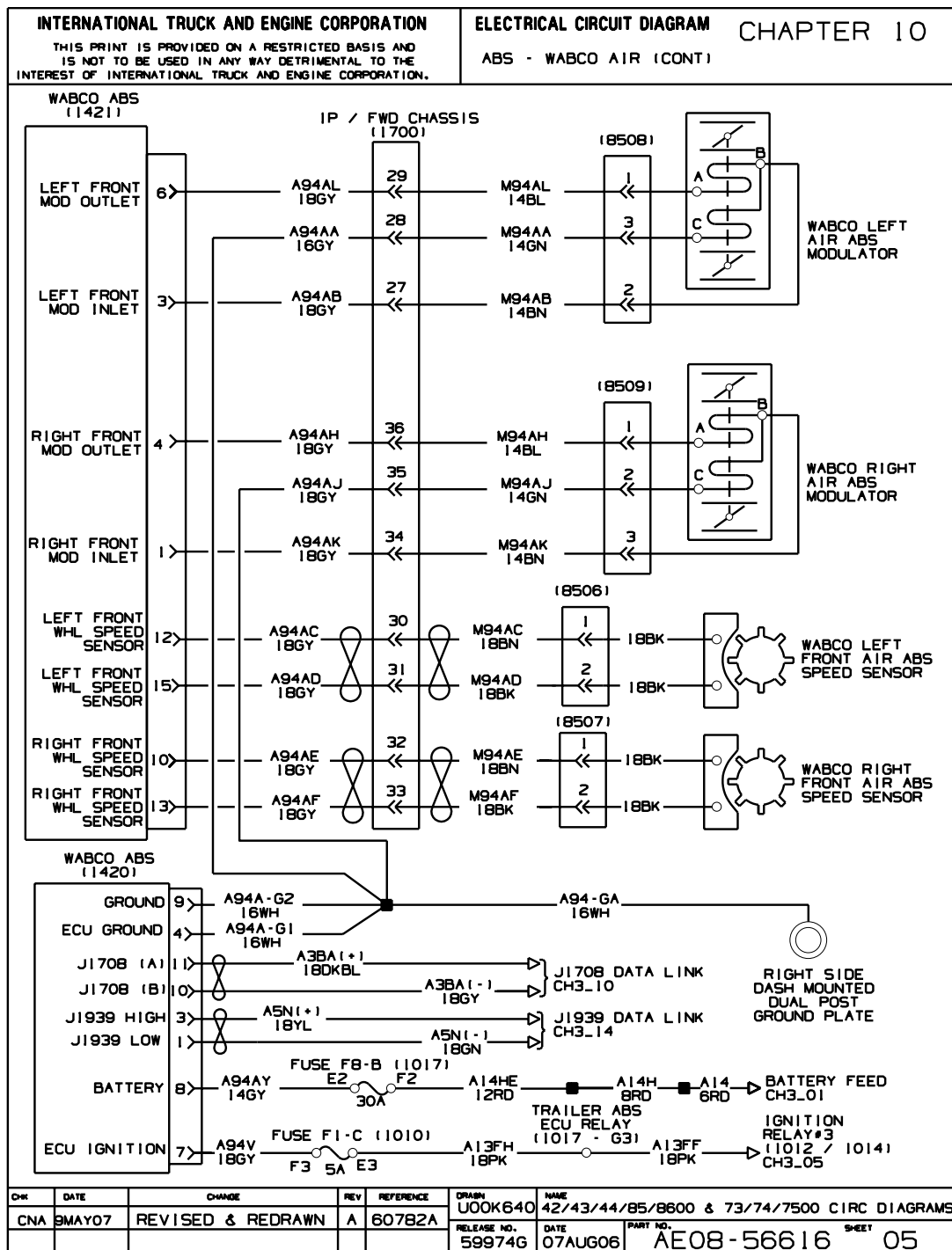


Figure 140 ABS — Wabco Air (Cont.)

10.6. WABCO FULL POWER BRAKES, P. 6

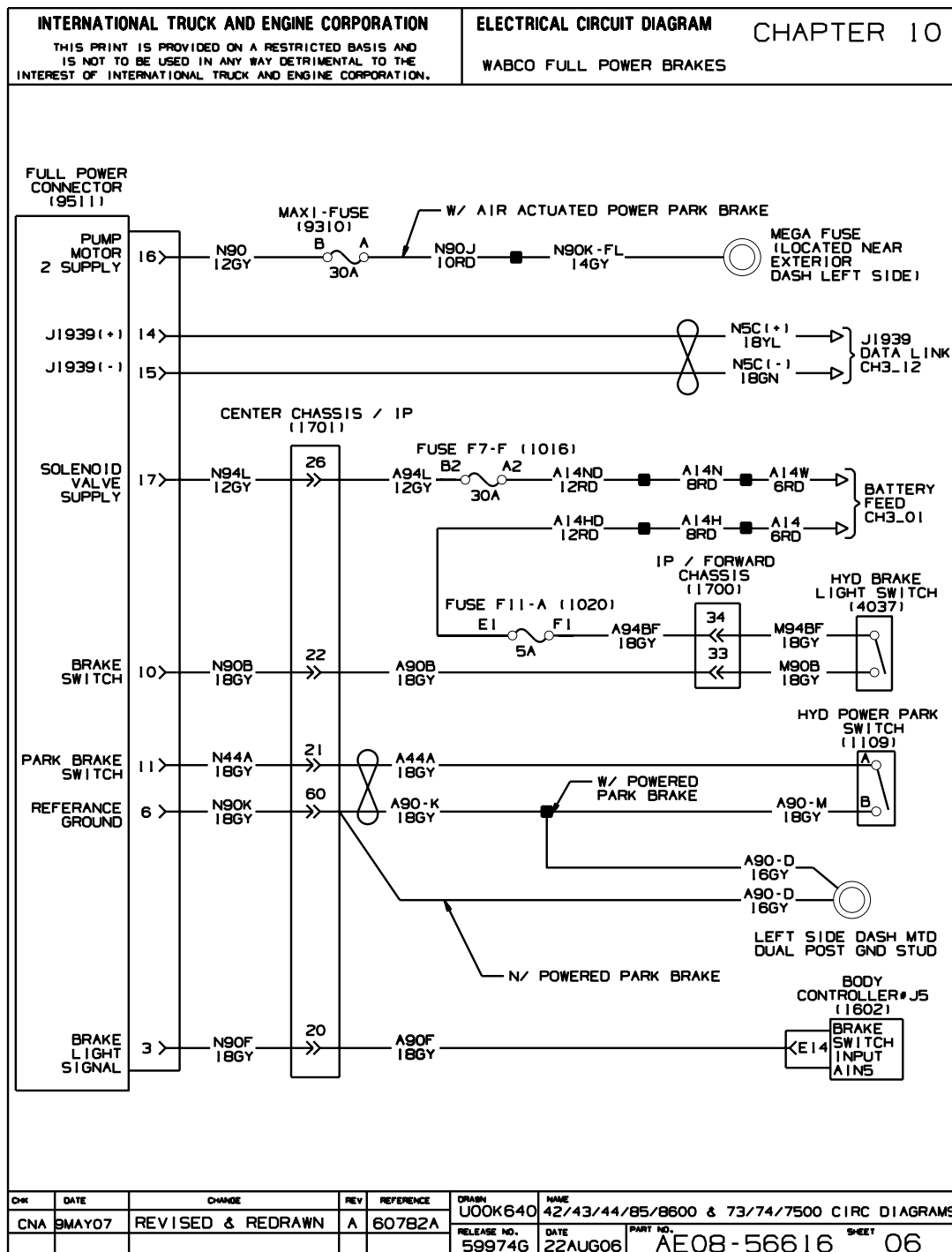


Figure 141 Wabco Full Power Brakes

10.8. WABCO FULL POWER BRAKES, P. 8

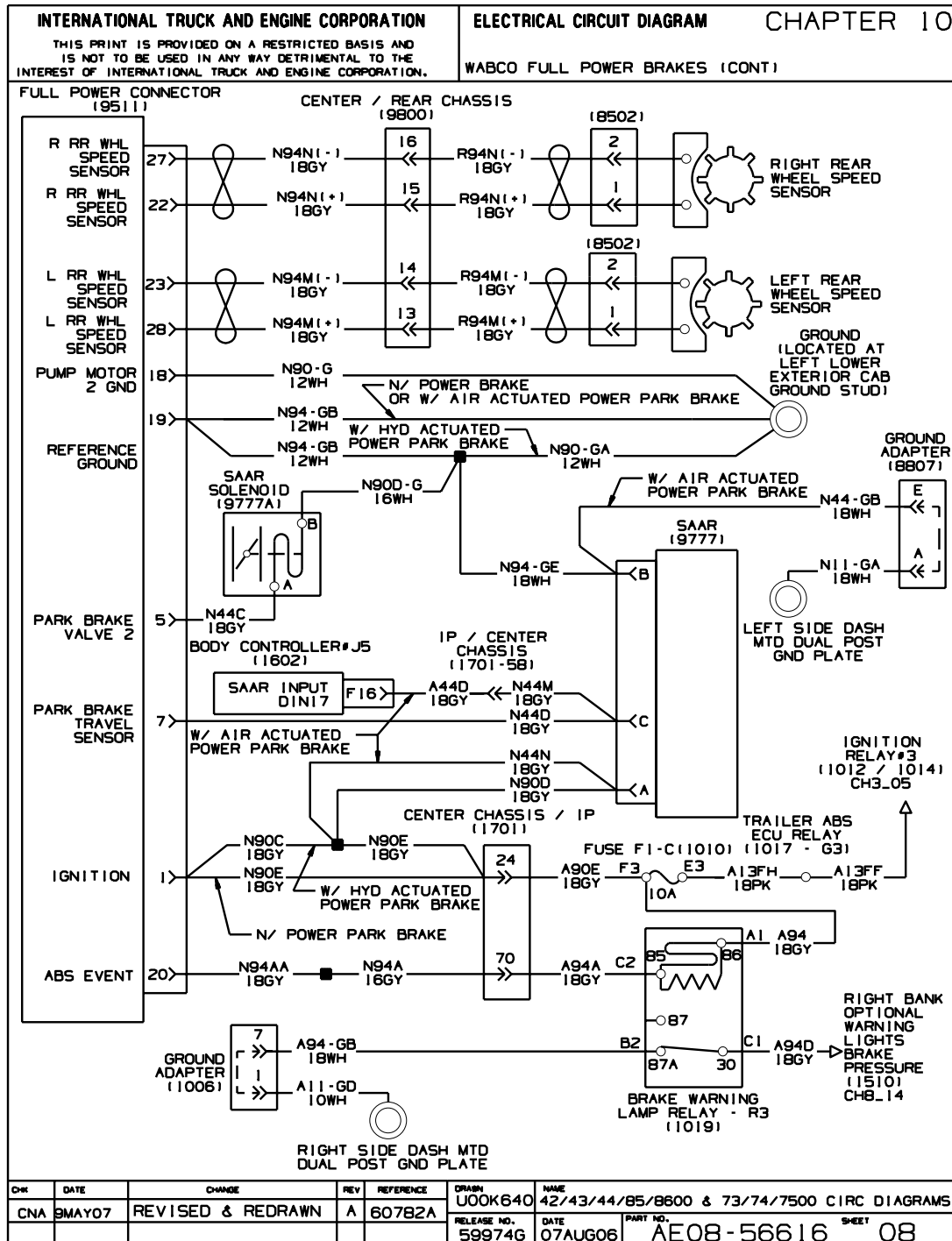


Figure 143 Wabco Full Power Brakes (Cont.)

10.9. BODY BUILDER AND TRAILER — TURN, MARKERS AND STOP, P. 9

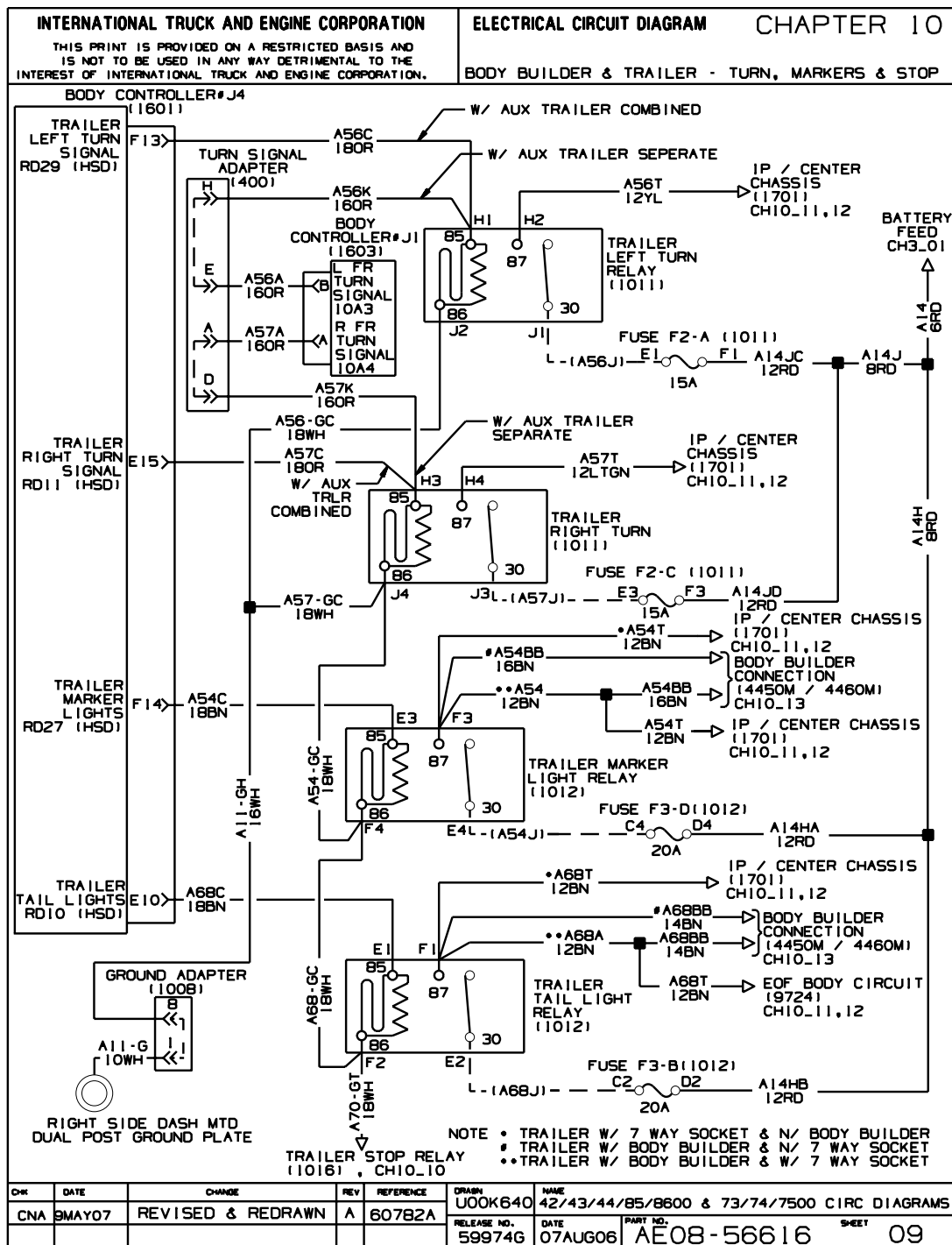


Figure 144 Body Builder and Trailer — Turn, Markers and Stop

10.11. TRAILER SOCKET — SOC AND EOF, P. 11

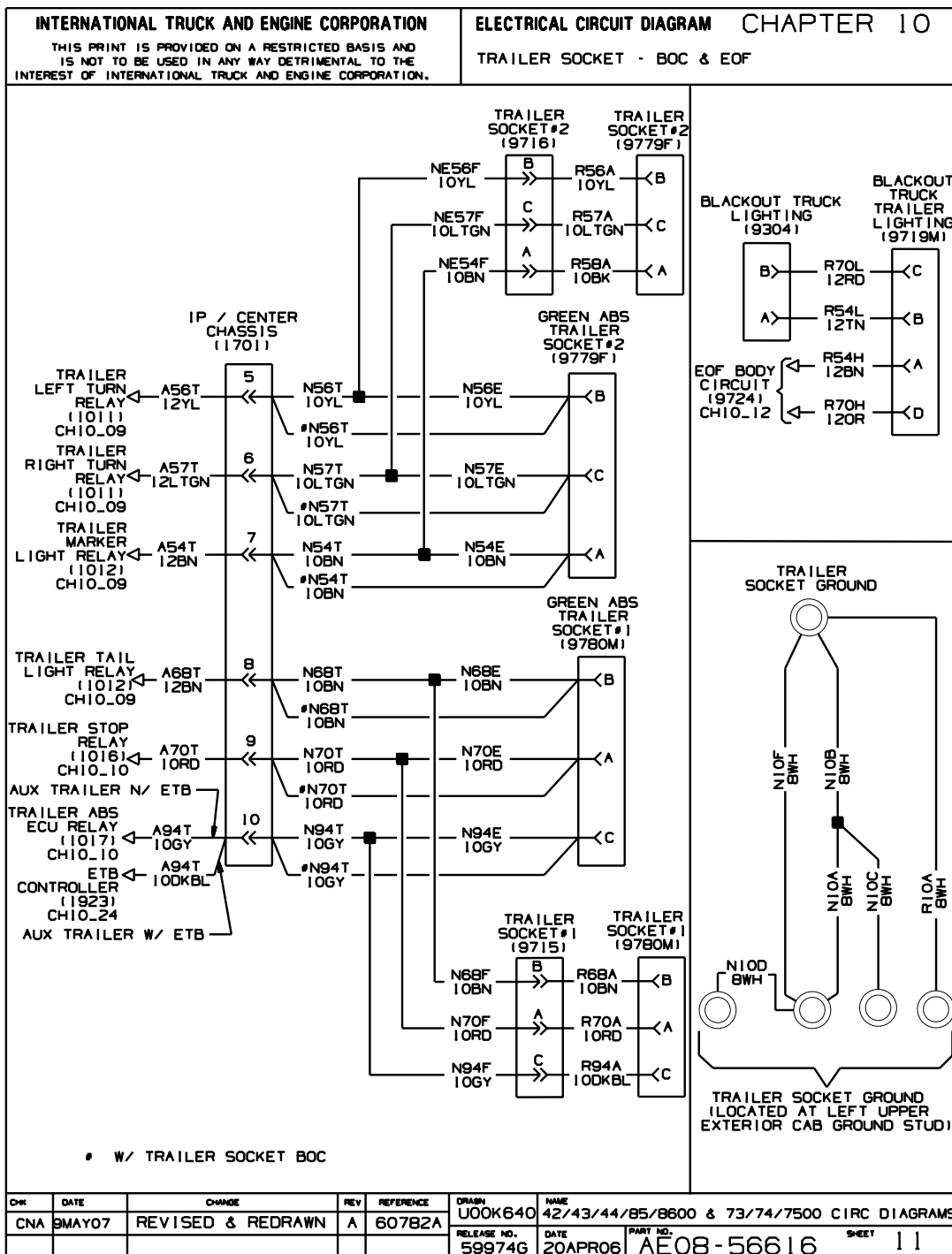


Figure 146 Trailer Socket — SOC and EOF

10.12. BODY BUILDER AND TRAILER SOCKET — SOC AND EOF, P. 12

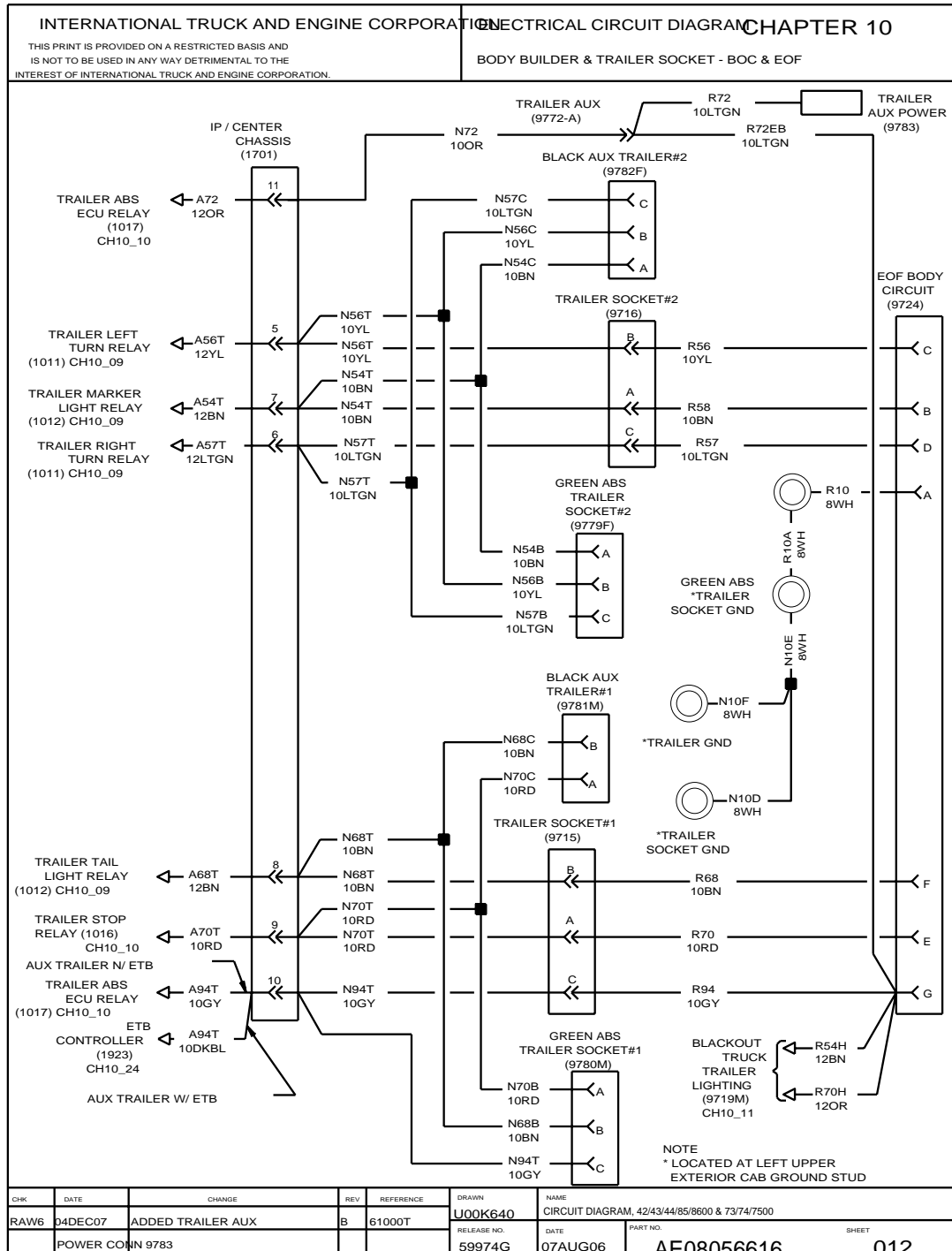


Figure 147 Body Builder and Trailer Socket — SOC and EOF

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ELECTRICAL CIRCUIT DIAGRAM CHAPTER 10

BODY BUILDER CONNECTIONS

IP / CENTER CHASSIS (1701)

TRAILER TAIL LIGHT RELAY (1012) CH10_09

REAR TURNS PANEL ADAPTER (1625) CH9_15

TRAILER MARKER LIGHT RELAY (1012) CH10_09

TURN SIGNAL ADAPTER (1400) CH9_03

BODY / ACCESSORY TRAILER AUX RELAY (1016) CH10_10

71

12

63

74

73

75

A68BB 14BN

A56BB 16YL

A57BB 16LTGN

A54BB 16BN

A71BB 16LTBL

A12BB 16LTBL

N68BB 14BN

N56BB 16YL

N57BB 16LTGN

N54BB 14BN

N71BB 16LTBL

N12BB 14LTBL

N11-GD 12WH

N11-GA 12WH

CHASSIS GND ADAPTER (8807)

LEFT SIDE DASH MTD DUAL POST GND PLATE

71

12

63

74

73

75

A68BB 14BN

A56BB 16YL

A57BB 16LTGN

A54BB 16BN

A71BB 16LTBL

A12BB 16LTBL

N68BB 14BN

N56BB 16YL

N57BB 16LTGN

N54BB 14BN

N71BB 16LTBL

N12BB 14LTBL

N11-GD 12WH

N11-GA 12WH

CHASSIS GND ADAPTER (8807)

LEFT SIDE DASH MTD DUAL POST GND PLATE

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A68BB 14BN

A56BB 16YL

A57BB 16LTGN

A54BB 16BN

A71BB 16LTBL

A12BB 16LTBL

N68BB 14BN

N56BB 16YL

N57BB 16LTGN

N54BB 14BN

N71BB 16LTBL

N12BB 14LTBL

N11-GD 12WH

N11-GA 12WH

CHASSIS GND ADAPTER (8807)

LEFT SIDE DASH MTD DUAL POST GND PLATE

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A68BB 14BN

A56BB 16YL

A57BB 16LTGN

A54BB 16BN

A71BB 16LTBL

A12BB 16LTBL

N68BB 14BN

N56BB 16YL

N57BB 16LTGN

N54BB 14BN

N71BB 16LTBL

N12BB 14LTBL

N11-GD 12WH

N11-GA 12WH

CHASSIS GND ADAPTER (8807)

LEFT SIDE DASH MTD DUAL POST GND PLATE

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A68BB 14BN

A56BB 16YL

A57BB 16LTGN

A54BB 16BN

A71BB 16LTBL

A12BB 16LTBL

N68BB 14BN

N56BB 16YL

N57BB 16LTGN

N54BB 14BN

N71BB 16LTBL

N12BB 14LTBL

N11-GD 12WH

N11-GA 12WH

CHASSIS GND ADAPTER (8807)

LEFT SIDE DASH MTD DUAL POST GND PLATE

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73

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A68BB 14BN

A56BB 16YL

A57BB 16LTGN

A54BB 16BN

A71BB 16LTBL

A12BB 16LTBL

N68BB 14BN

N56BB 16YL

N57BB 16LTGN

N54BB 14BN

N71BB 16LTBL

N12BB 14LTBL

N11-GD 12WH

N11-GA 12WH

CHASSIS GND ADAPTER (8807)

LEFT SIDE DASH MTD DUAL POST GND PLATE

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73

75

A68BB 14BN

A56BB 16YL

A57BB 16LTGN

A54BB 16BN

A71BB 16LTBL

A12BB 16LTBL

N68BB 14BN

N56BB 16YL

N57BB 16LTGN

N54BB 14BN

N71BB 16LTBL

N12BB 14LTBL

N11-GD 12WH

N11-GA 12WH

CHASSIS GND ADAPTER (8807)

LEFT SIDE DASH MTD DUAL POST GND PLATE

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A68BB 14BN

A56BB 16YL

A57BB 16LTGN

A54BB 16BN

A71BB 16LTBL

A12BB 16LTBL

N68BB 14BN

N56BB 16YL

N57BB 16LTGN

N54BB 14BN

N71BB 16LTBL

N12BB 14LTBL

N11-GD 12WH

N11-GA 12WH

CHASSIS GND ADAPTER (8807)

LEFT SIDE DASH MTD DUAL POST GND PLATE

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73

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A68BB 14BN

A56BB 16YL

A57BB 16LTGN

A54BB 16BN

A71BB 16LTBL

A12BB 16LTBL

N68BB 14BN

N56BB 16YL

N57BB 16LTGN

N54BB 14BN

N71BB 16LTBL

N12BB 14LTBL

N11-GD 12WH

N11-GA 12WH

CHASSIS GND ADAPTER (8807)

LEFT SIDE DASH MTD DUAL POST GND PLATE

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12

63

74

73

75

A68BB 14BN

A56BB 16YL

A57BB 16LTGN

A54BB 16BN

A71BB 16LTBL

A12BB 16LTBL

N68BB 14BN

N56BB 16YL

N57BB 16LTGN

N54BB 14BN

N71BB 16LTBL

N12BB 14LTBL

N11-GD 12WH

N11-GA 12WH

CHASSIS GND ADAPTER (8807)

LEFT SIDE DASH MTD DUAL POST GND PLATE

71

12

63

74

73

75

A68BB 14BN

A56BB 16YL

A57BB 16LTGN

A54BB 16BN

A71BB 16LTBL

A12BB 16LTBL

N68BB 14BN

N56BB 16YL

N57BB 16LTGN

N54BB 14BN

N71BB 16LTBL

N12BB 14LTBL

N11-GD 12WH

N11-GA 12WH

CHASSIS GND ADAPTER (8807)

LEFT SIDE DASH MTD DUAL POST GND PLATE

71

12

63

74

73

75

A68BB 14BN

A56BB 16YL

A57BB 16LTGN

A54BB 16BN

A71BB 16LTBL

A12BB 16LTBL

N68BB 14BN

N56BB 16YL

N57BB 16LTGN

N54BB 14BN

N71BB 16LTBL

N12BB 14LTBL

N11-GD 12WH

N11-GA 12WH

CHASSIS GND ADAPTER (8807)

LEFT SIDE DASH MTD DUAL POST GND PLATE

71

12

63

74

73

75

A68BB 14BN

A56BB 16YL

A57BB 16LTGN

A54BB 16BN

A71BB 16LTBL

A12BB 16LTBL

N68BB 14BN

N56BB 16YL

N57BB 16LTGN

N54BB 14BN

N71BB 16LTBL

N12BB 14LTBL

N11-GD 12WH

N11-GA 12WH

CHASSIS GND ADAPTER (8807)

LEFT SIDE DASH MTD DUAL POST GND PLATE

71

12

63

74

73

75

A68BB 14BN

A56BB 16YL

A57BB 16LTGN

A54BB 16BN

A71BB 16LTBL

A12BB 16LTBL

N68BB 14BN

N56BB 16YL

N57BB 16LTGN

N54BB 14BN

N71BB 16LTBL

N12BB 14LTBL

N11-GD 12WH

N11-GA 12WH

CHASSIS GND ADAPTER (8807)

LEFT

Figure 148 Body Builder Connections

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ELECTRICAL CIRCUIT DIAGRAM

REMOTE START / STOP

CHAPTER 10

Figure 149 Remote Start / Stop

10.15. AUX TRAILER CIRCUIT, P. 15

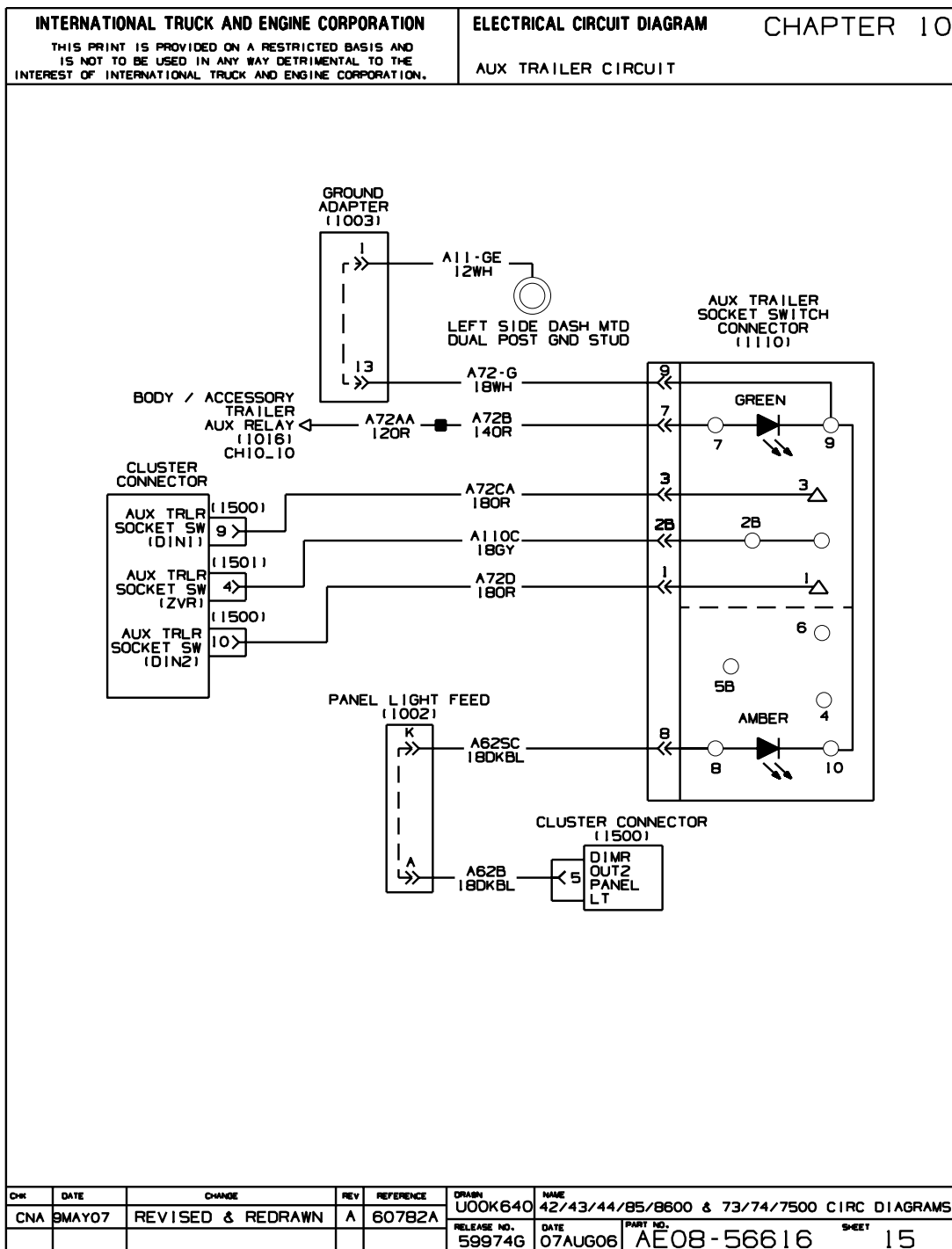


Figure 150 Aux Trailer Circuit

10.16. TWO SPEED AXLE SWITCH, P. 16

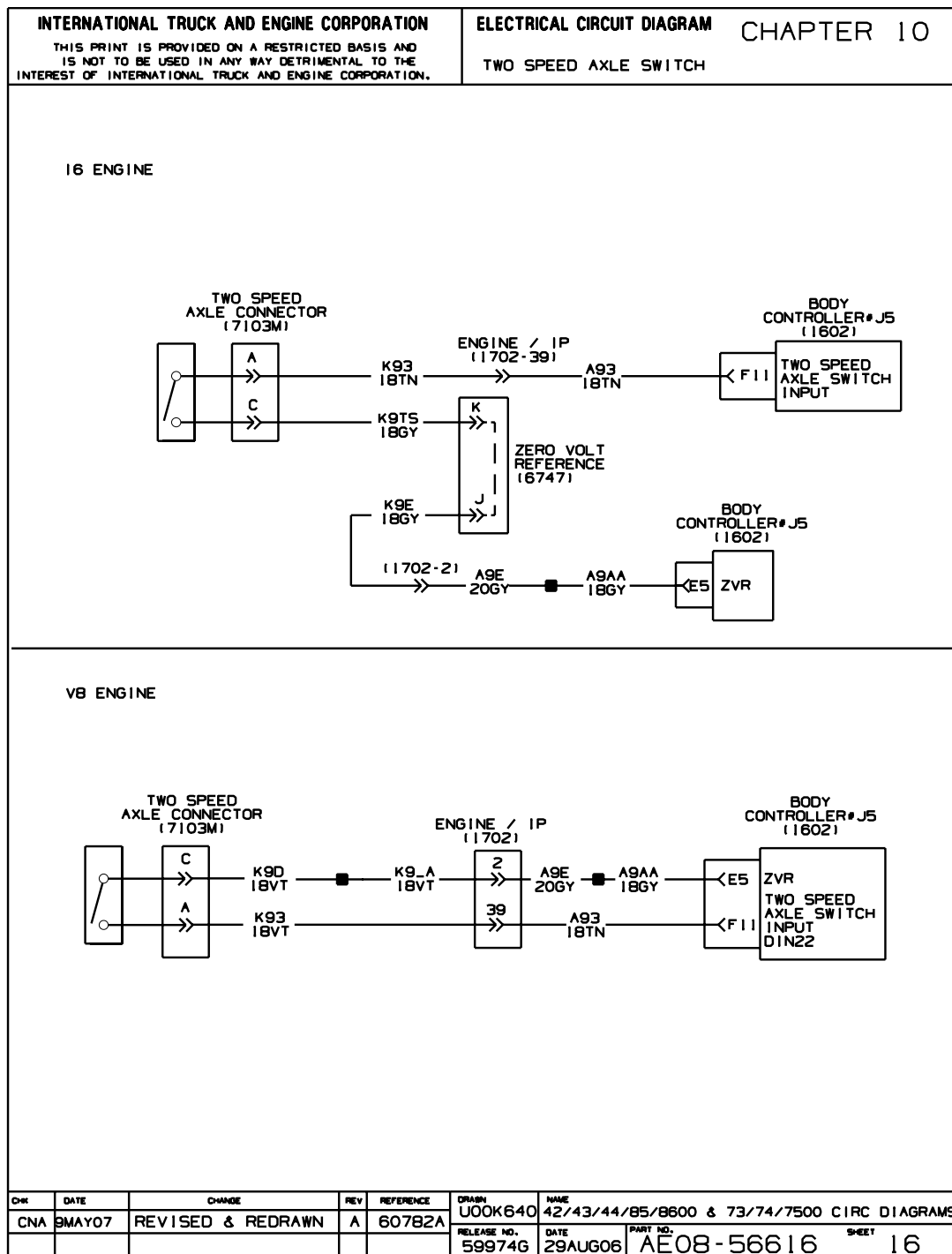


Figure 151 Two Speed Axle Switch

10.17. AIR SOLENOID, P. 17

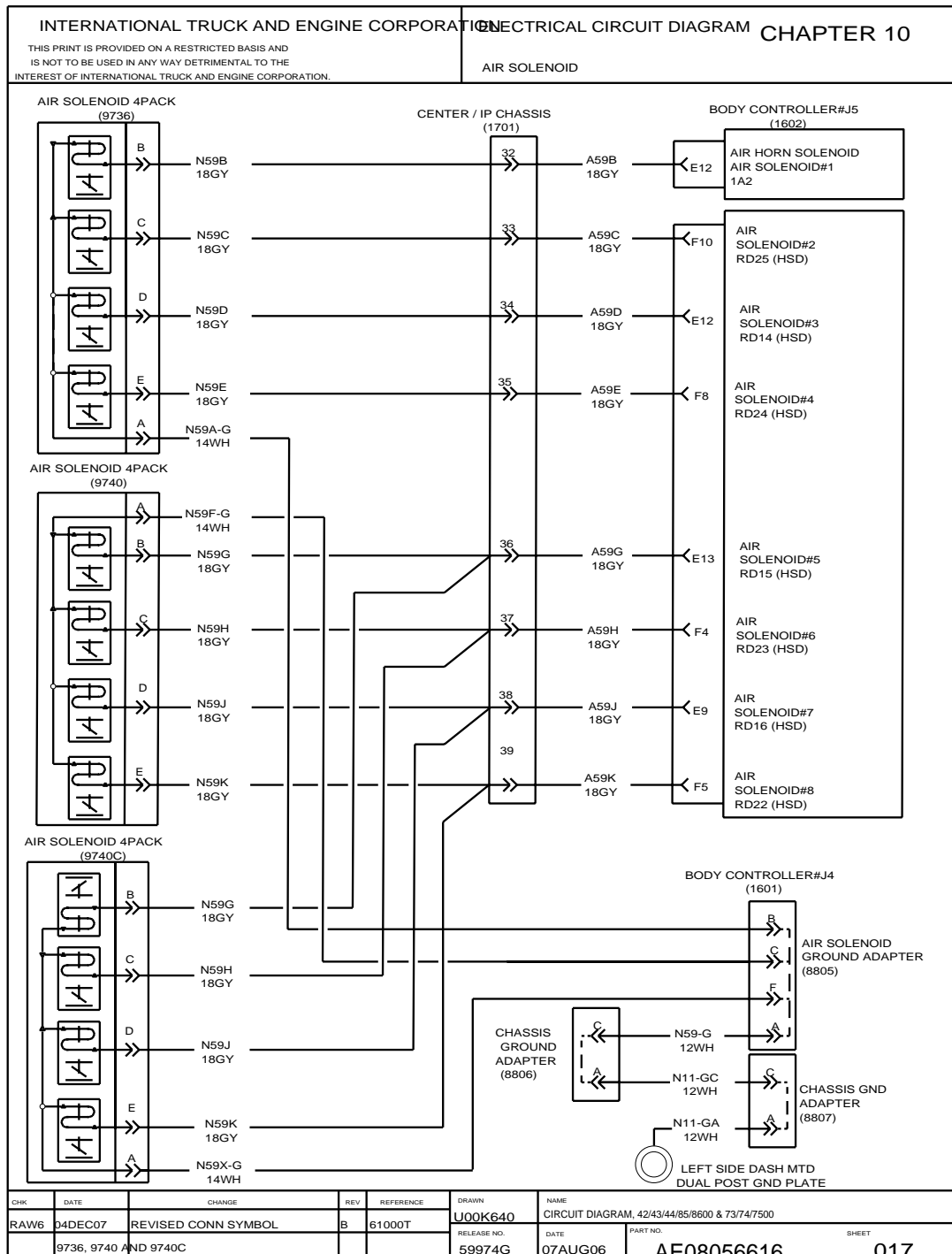


Figure 152 Air Solenoid

10.18. AIR SOLENOID, P. 18

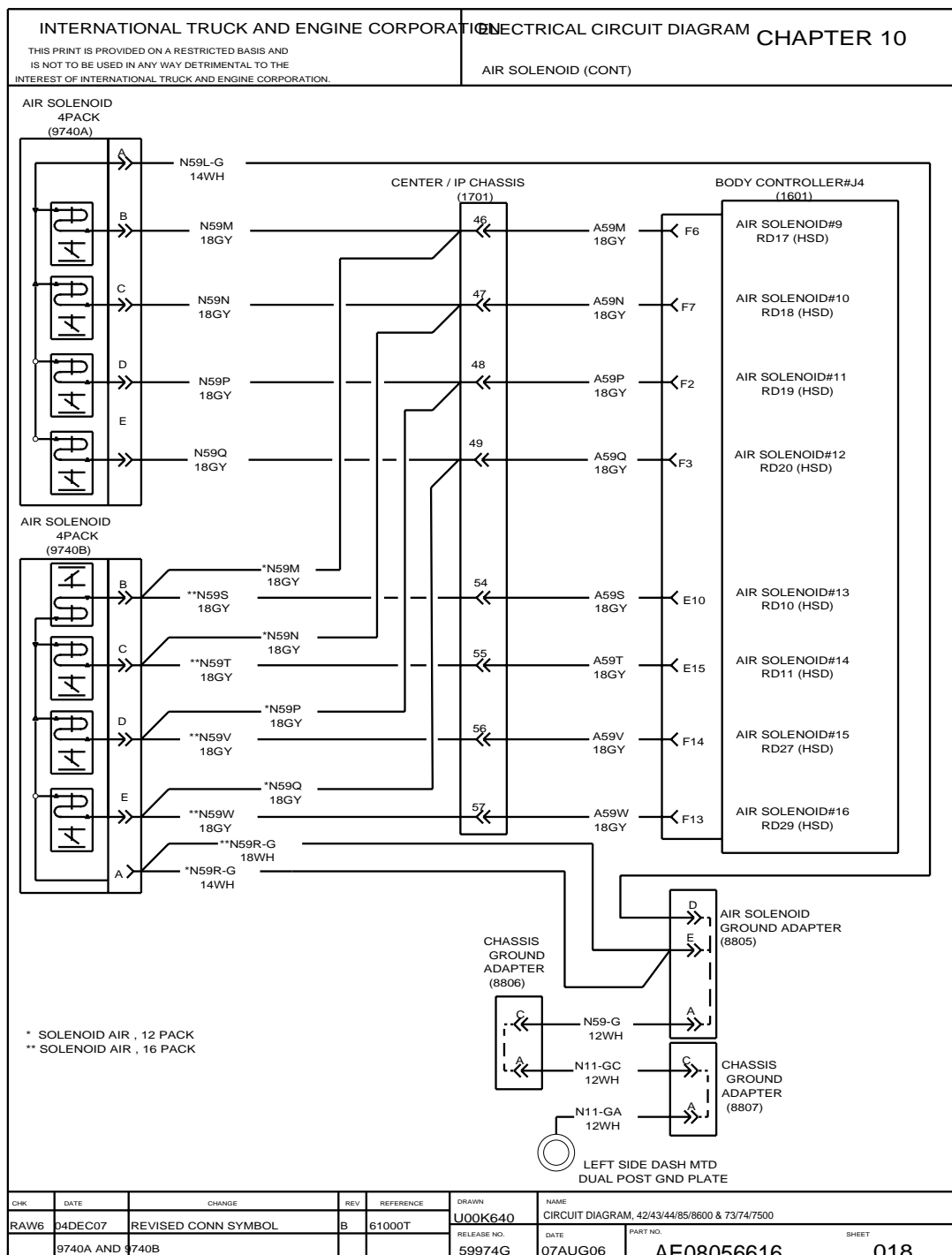


Figure 153 Air Solenoid (Cont.)

10.19. REMOTE POWER UNITS, SOLENOID PACKS, REMOTE ENGINE SPEED CONTROLLER, P. 19

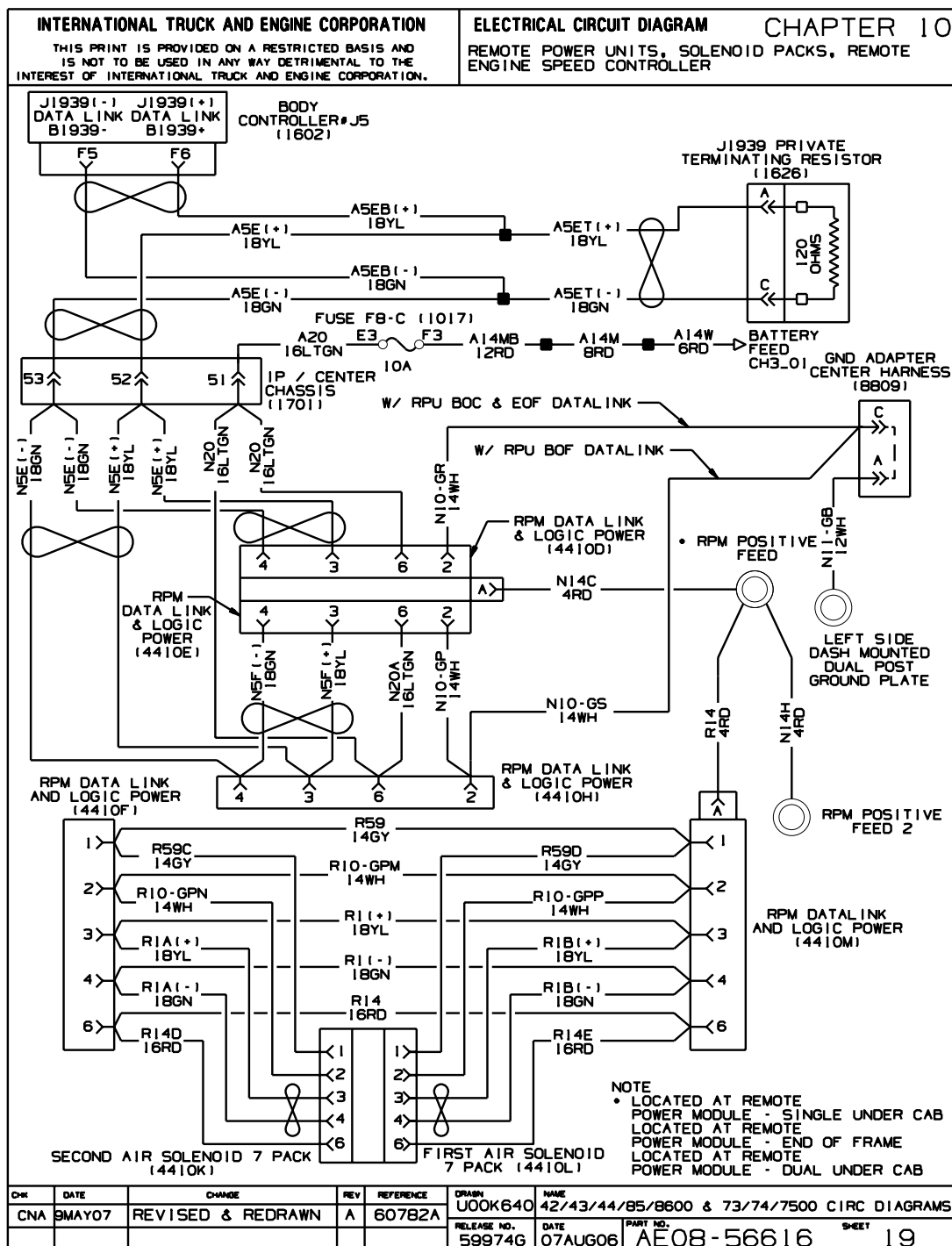


Figure 154 Remote Power Units, Solenoid Packs, Remote Engine Speed Controller

10.20. BLANK PAGE, P. 20

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 10			
INTENTIONALLY LEFT BLANK							
CHK	DATE	CHANGE	REV	REFERENCE	DRAWN U00K640	NAME 42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS	
					RELEASE NO. 59974G	DATE 20APR06	PART NO. AF08-56616
						SHEET	20

Figure 155 Blank page

10.21. AUX AND POWER SOURCE, P. 21

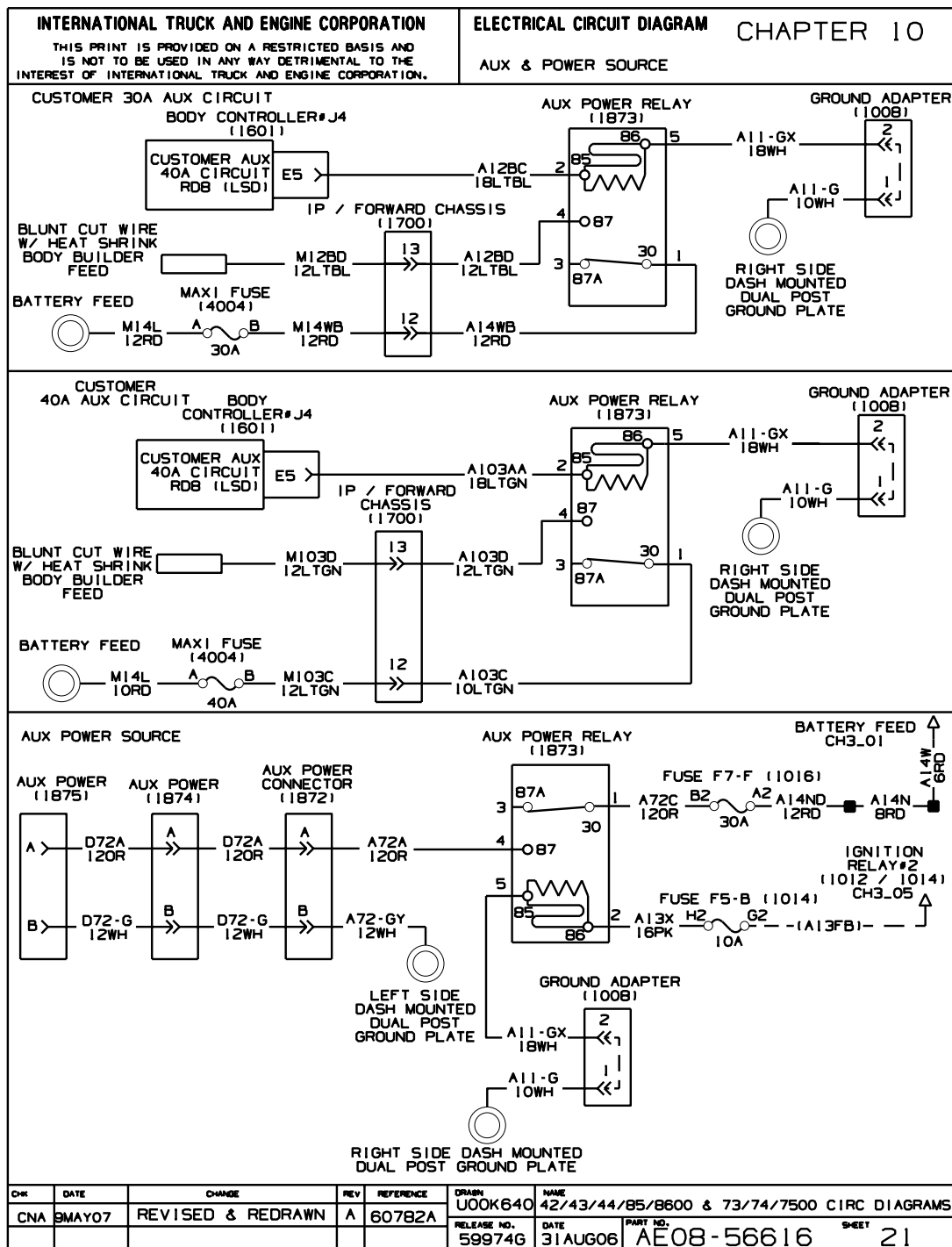


Figure 156 Aux and Power Source

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 10 AIR DRYER & HEATED DRAIN VALVE
--	---

*NOTE	CAV A	CAV B
LEFT - 9900A	N39B/16GY	N39-GB/16WH
RIGHT - 9900	N39B/16GY	N39-GB/16WH
LEFT REAR - 9900C	N39B/18GY	N39-GB/16WH
RIGHT REAR - 9900D	N39B/18GY	N39-GB/16WH
LEFT REAR AD - IP 9900C1	N39B/18GY	N39-GB/16WH

**NOTE	CAV A	CAV B
LEFT - 9001	N39A/18GY	N39-GF/18WH
RIGHT - 9002	N39A/18GY	N39-GF/18WH
LEFT BOC - 9003	N39A/18GY	N39-GF/18WH
LEFT HEDEX - 9001A	N39A/18GY	N39-GF/18WH
LEFT BOC HALDEX 9003B	N39A/18GY	N39-GF/18WH

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	CIRCUIT DIAGRAM, 42/43/44/85/8600 & 73/74/7500
RAW6	04DEC07	ADDED CONN 9900E	B	61000T	U00K640		
					RELEASE NO.	PART NO.	
					59974G	07AUG06	AE08056616
							022

Figure 157 Air Dryer and Heated Drain Valve

10.23. FUEL / WATER SEPARATOR, P. 23

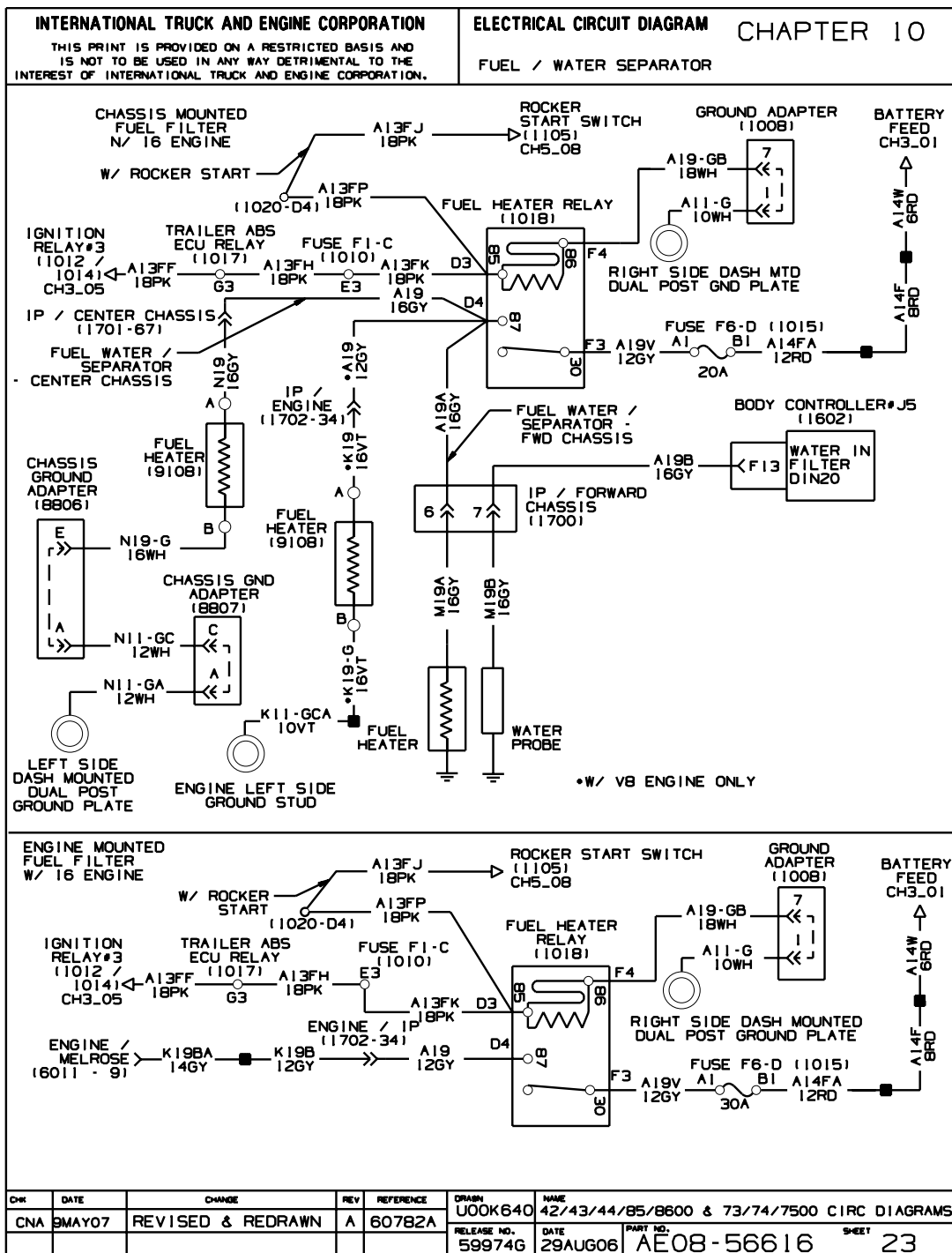


Figure 158 Fuel / Water Separator

10.24. ELECTRIC TRAILER BRAKE, P. 24

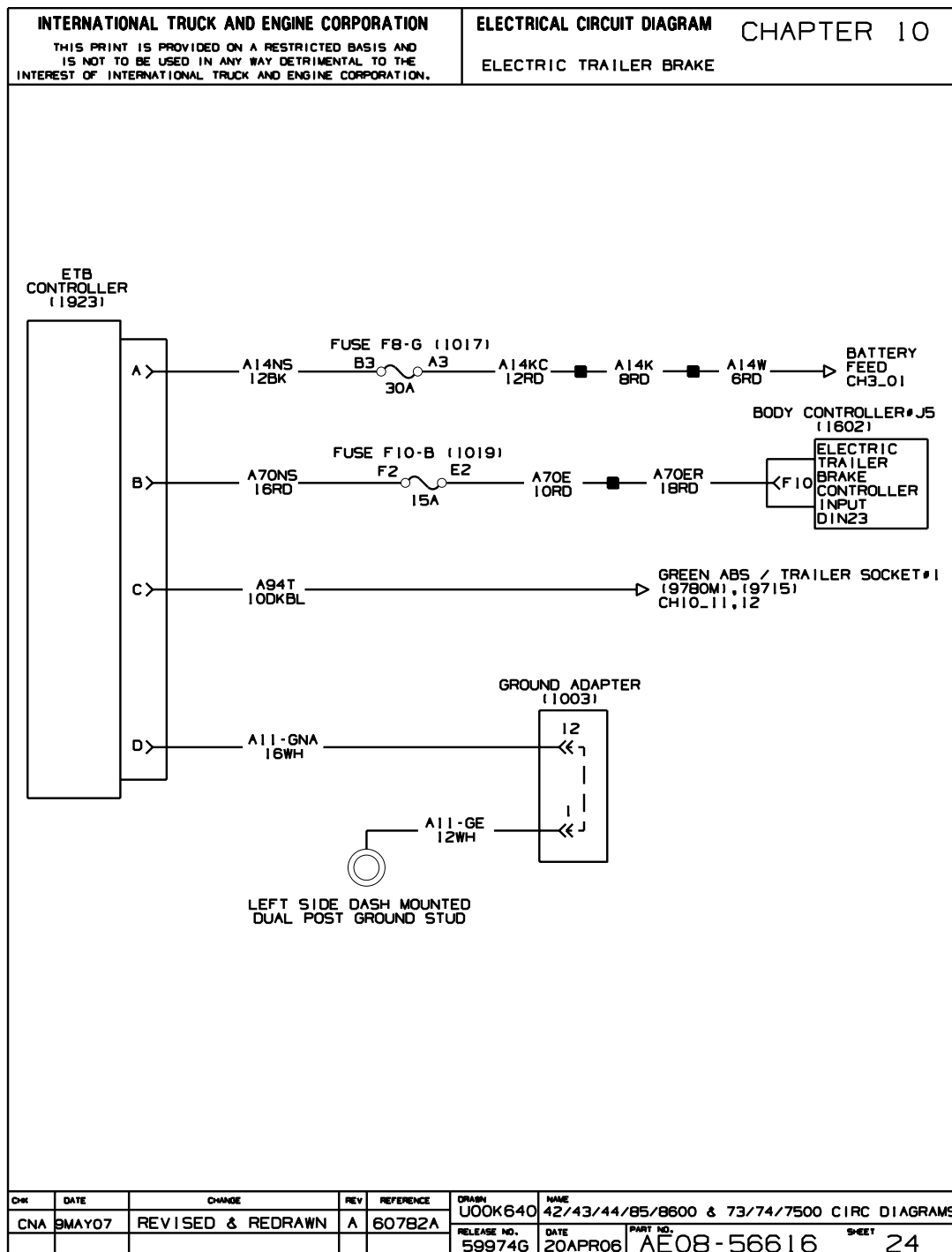


Figure 159 Electric Trailer Brake

10.25. LECTRASHIFT ACCOMMODATION, P. 25

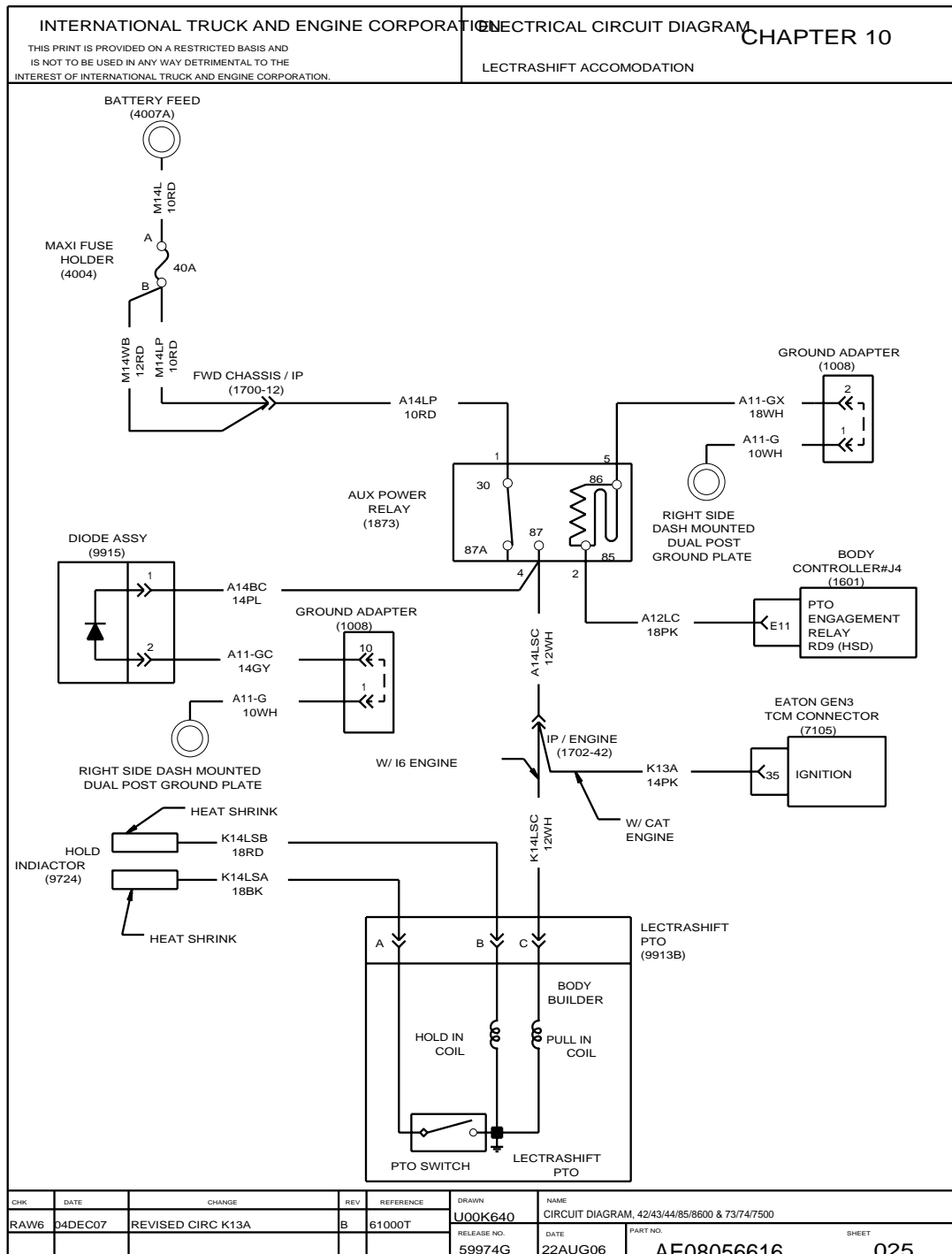


Figure 160 Lectrashift Accommodation

10.26. HOUR METER — PTO, P. 26

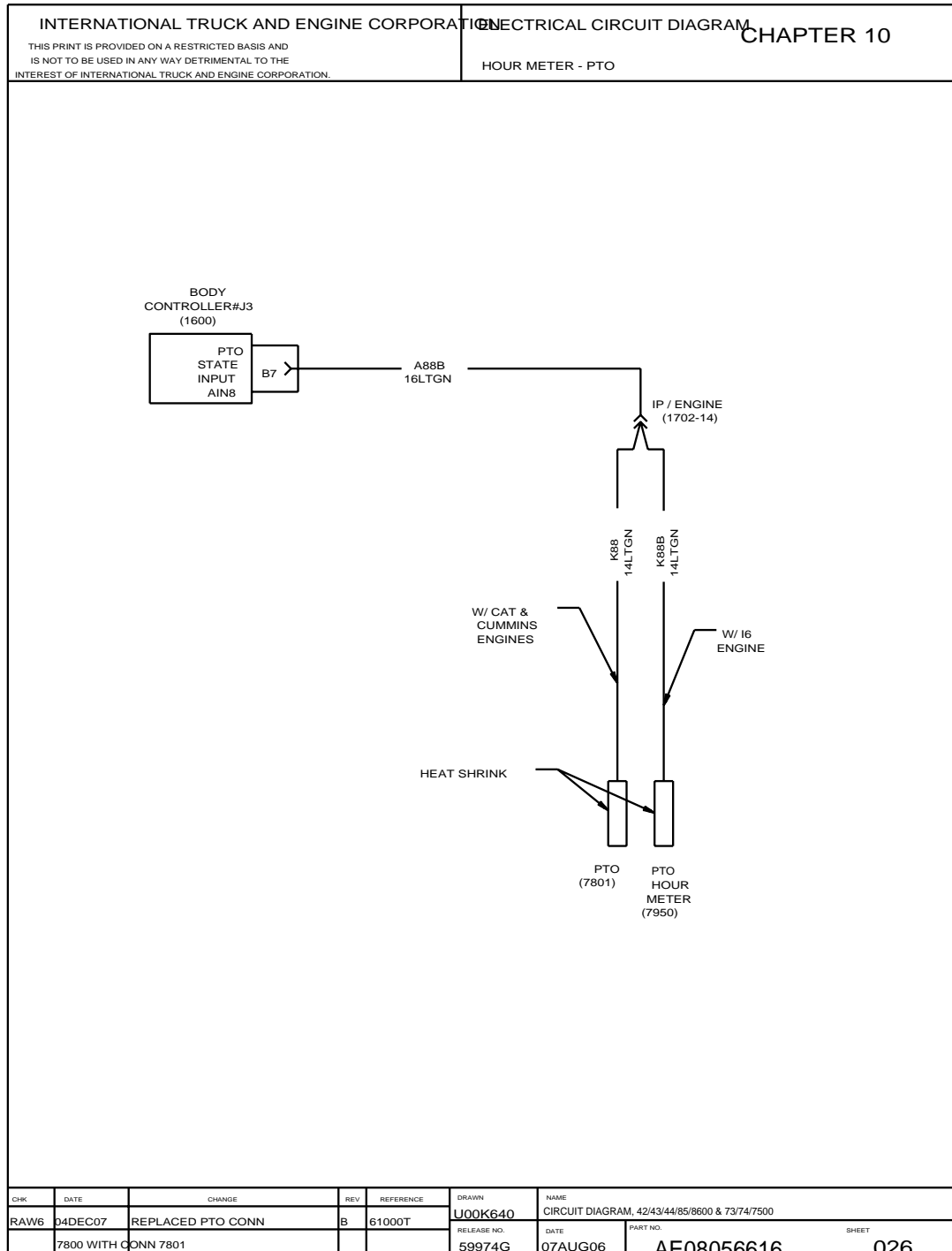


Figure 161 Hour Meter — PTO

10.27. AUX INPUTS AND DRIVERS, P. 27

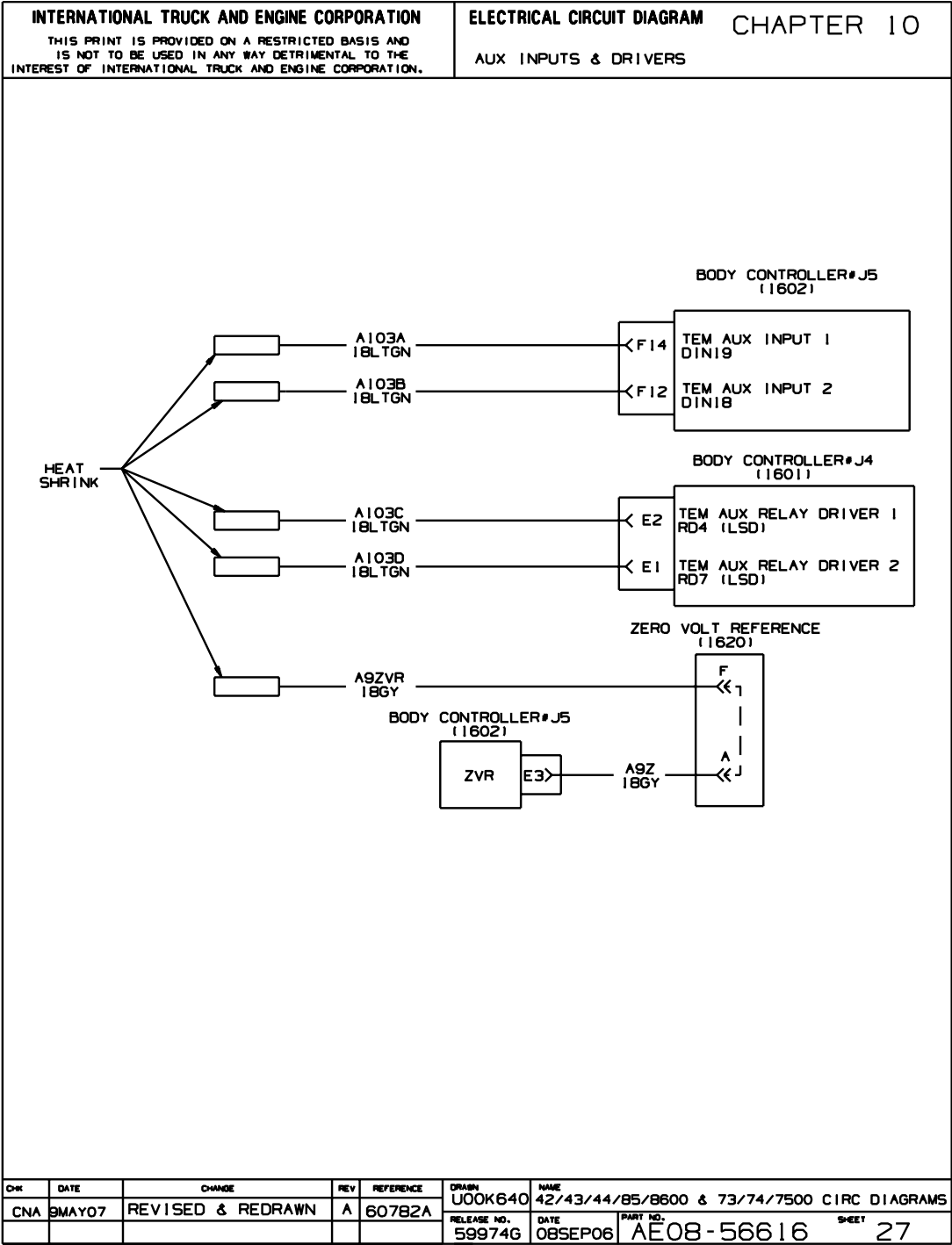


Figure 162 Aux Inputs and Drivers

10.28. FUEL TRANSFER PUMP, P. 28

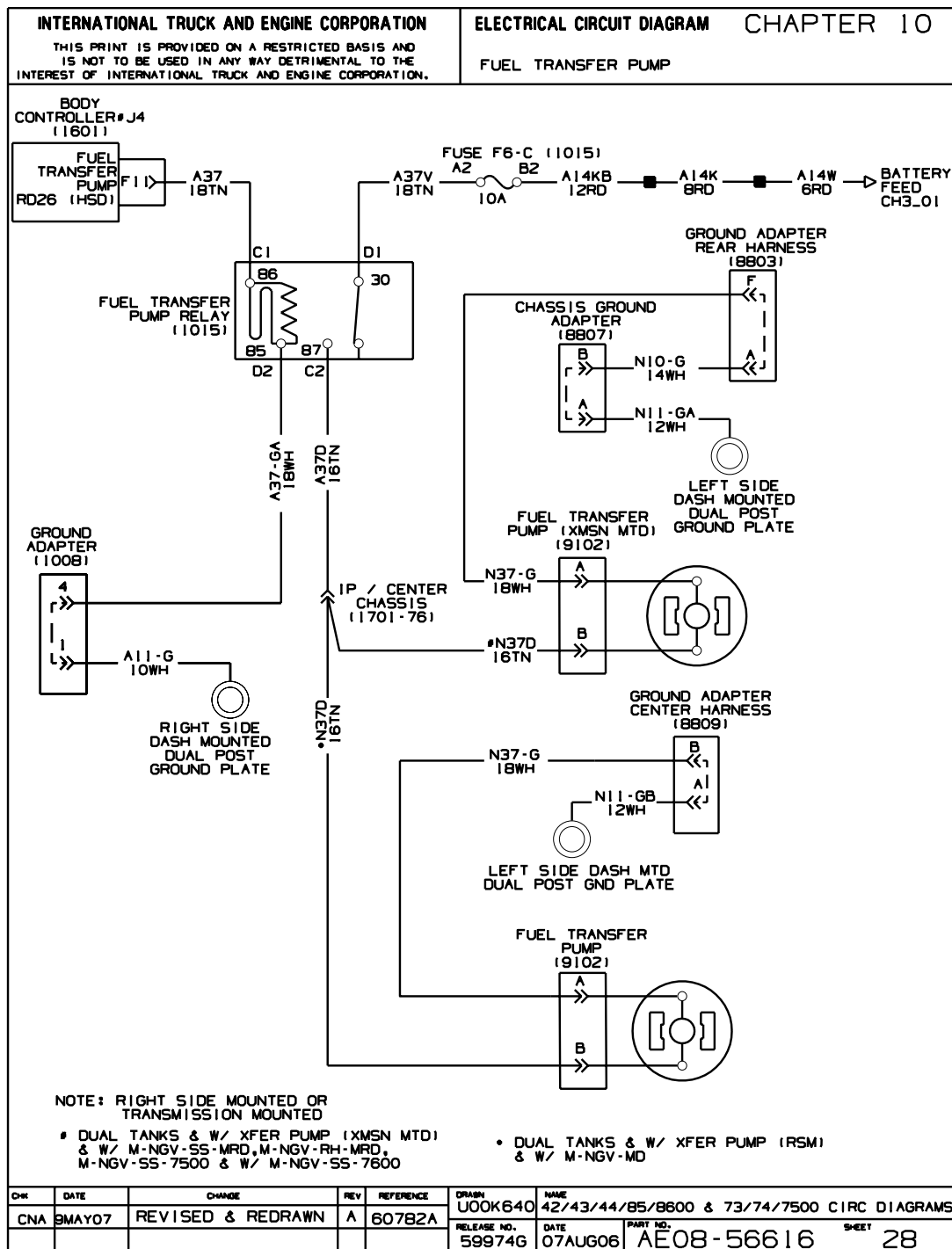


Figure 163 Fuel Transfer Pump

10.29. BLANK PAGE, P. 29

INTERNATIONAL TRUCK AND ENGINE CORPORATION					ELECTRICAL CIRCUIT DIAGRAM					CHAPTER 10				
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INTENTIONALLY LEFT BLANK														
CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME								
					U00K640	42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS								
					RELEASE NO.	DATE	PART NO.	SHEET						
					59974G	07AUG06	AF08-56616	29						

Figure 164 Blank Page

10.30. TELEMATICS AWARE — BODY BUILDER, P. 30

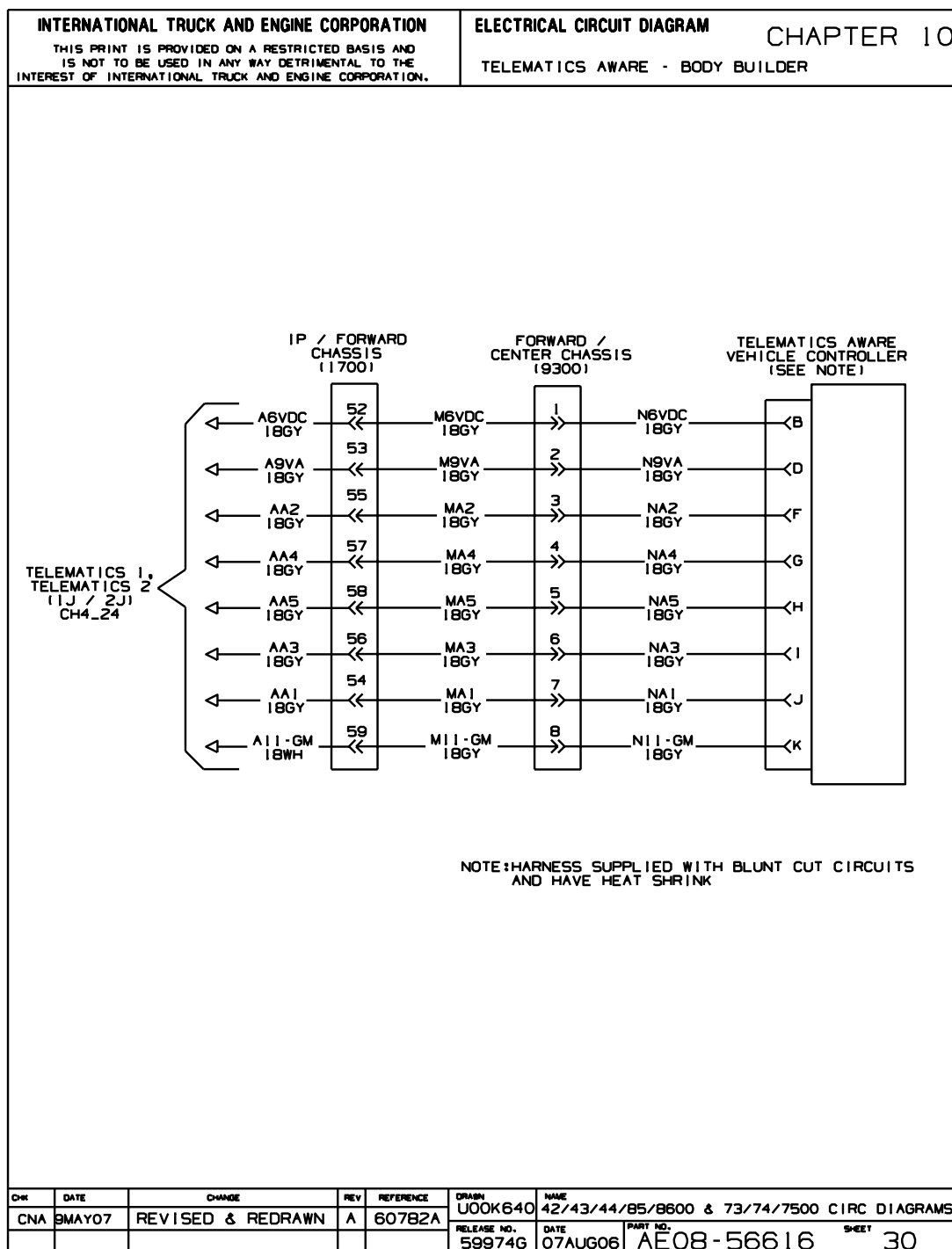


Figure 165 Telematics Aware — Body Builder

10.31. PRESSURE SWITCH, P. 31

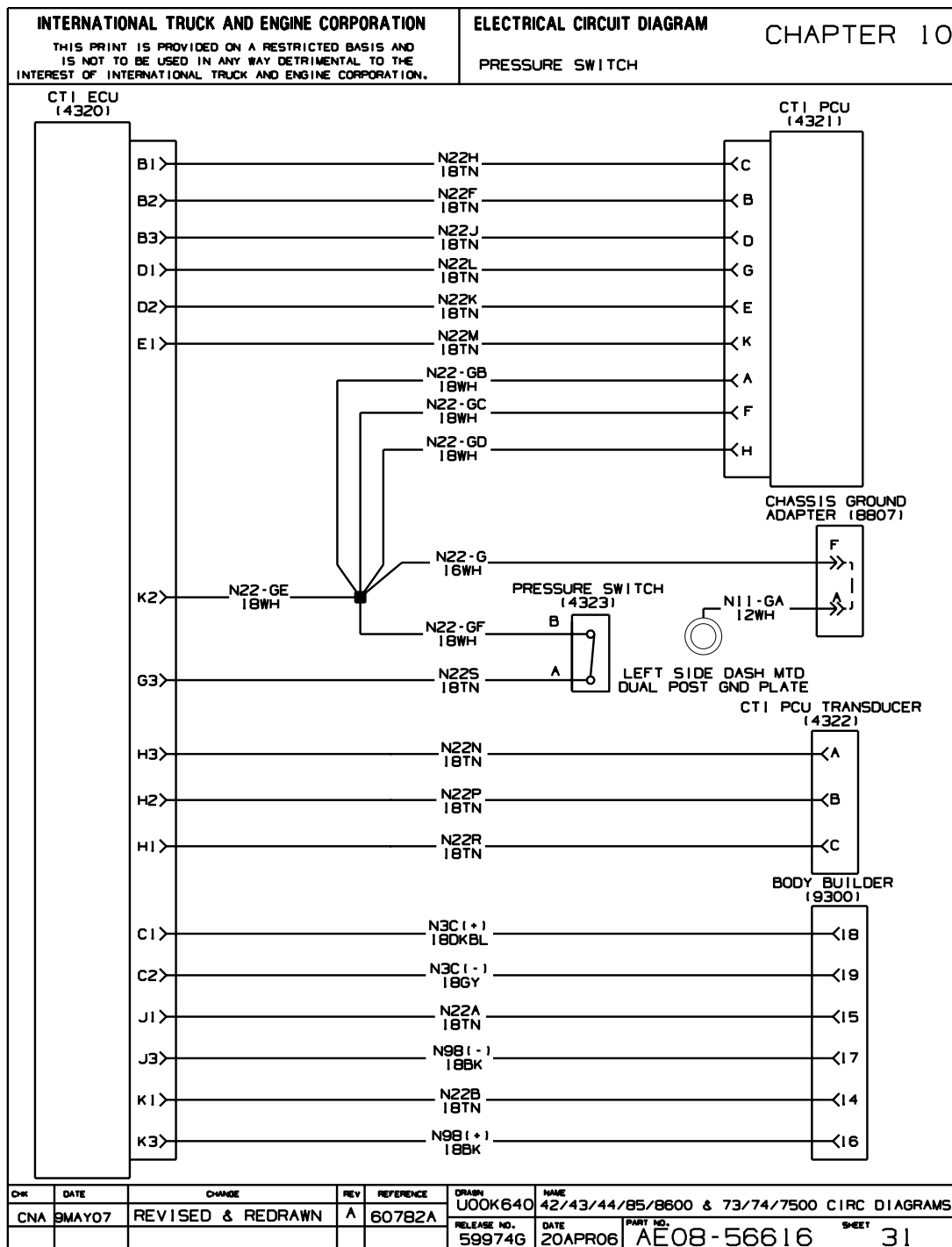


Figure 166 Pressure Switch

10.32. LIFT GATE, P. 32

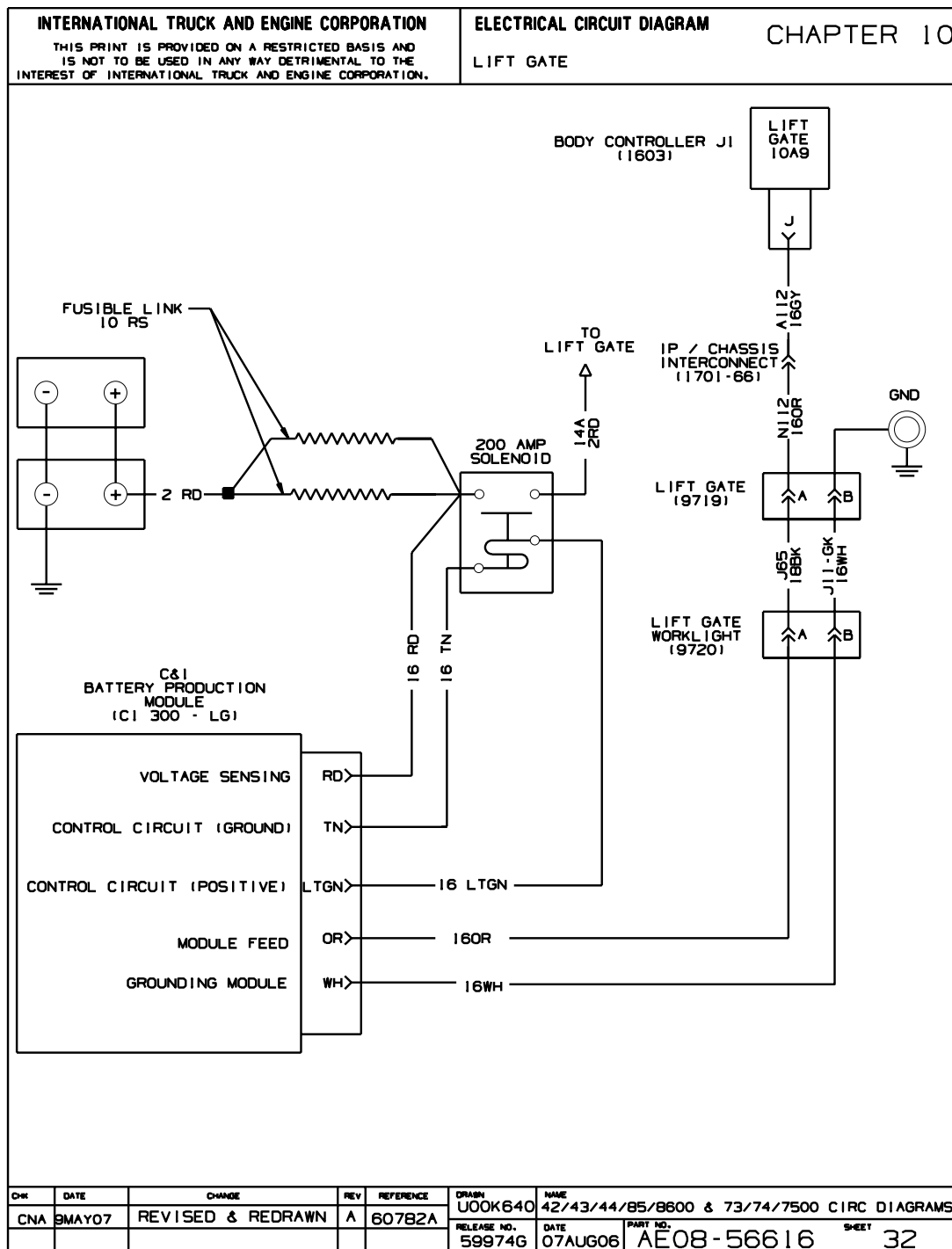


Figure 167 Lift Gate

[illegible]

S08322

10.34. LIFT AXLE WITH CONTROLS FOR ONE LIFT AXLE, P. 34

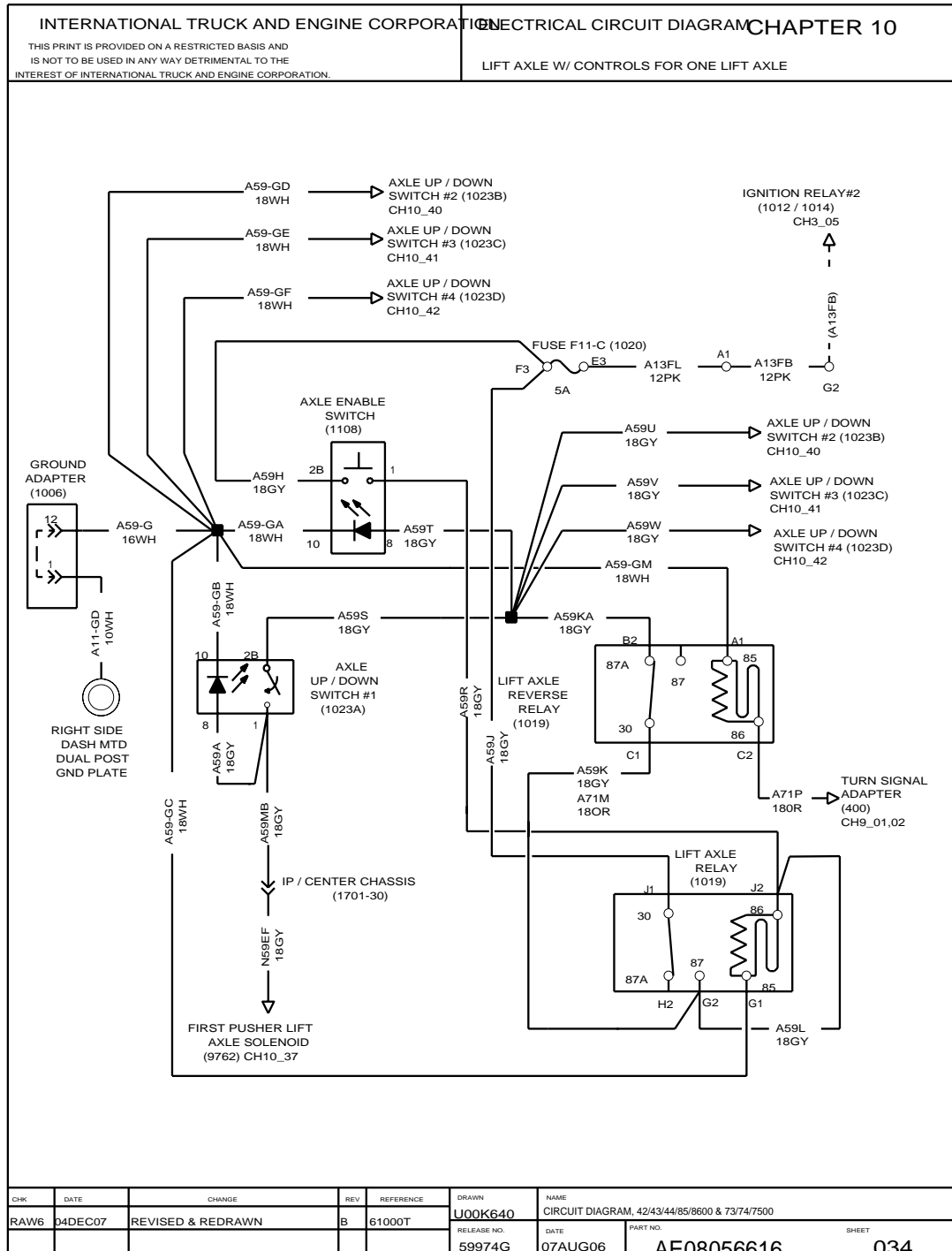


Figure 169 Lift Axle with Controls for One Lift Axle

10.35. LIFT AXLE (NON-STEERABLE), P. 35

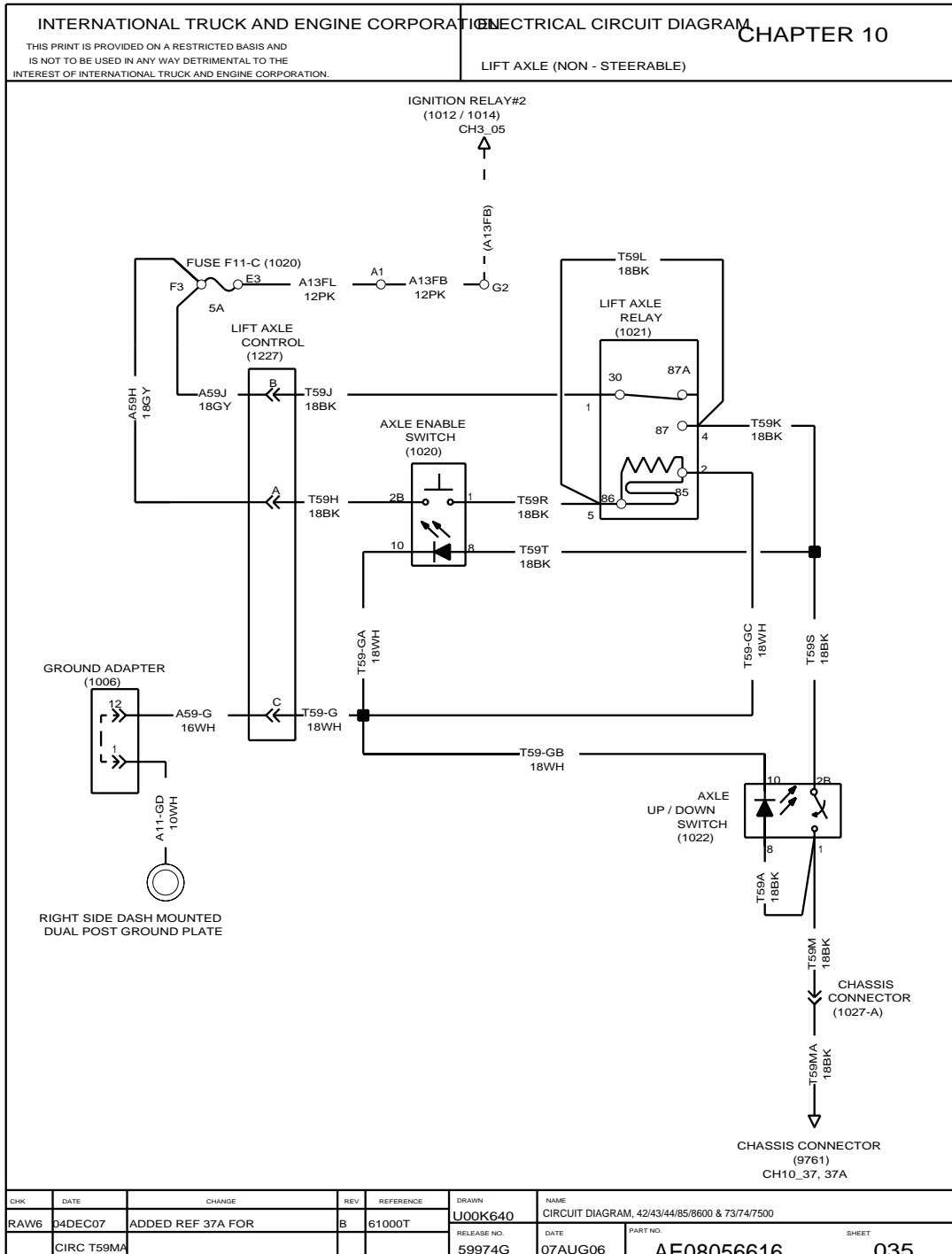


Figure 170 Lift Axle (Non-Steerable)

10.36. LIFT AXLE (STEERABLE), P. 36

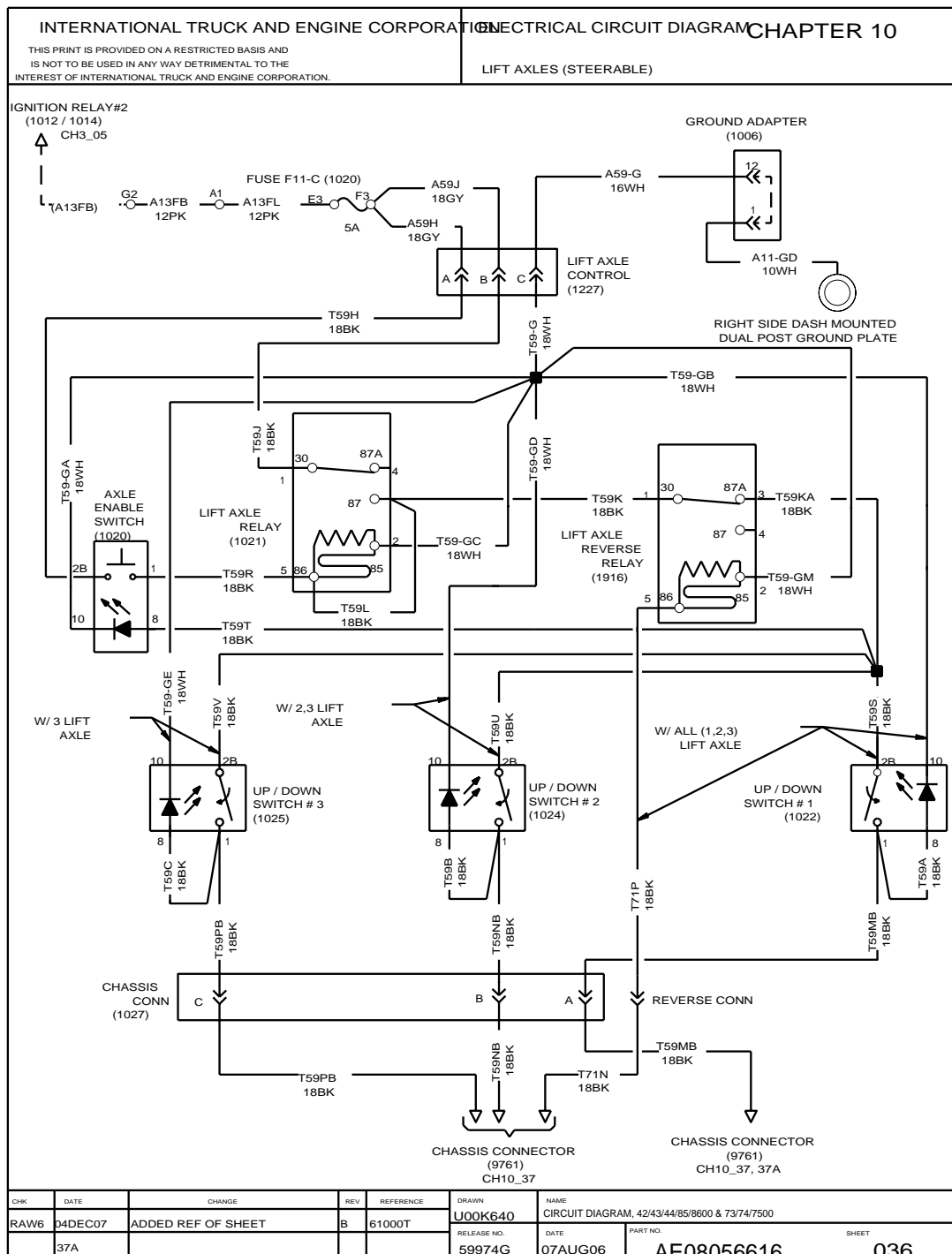


Figure 171 Lift Axle (Steerable)

10.37. LIFT AXLES, P. 37

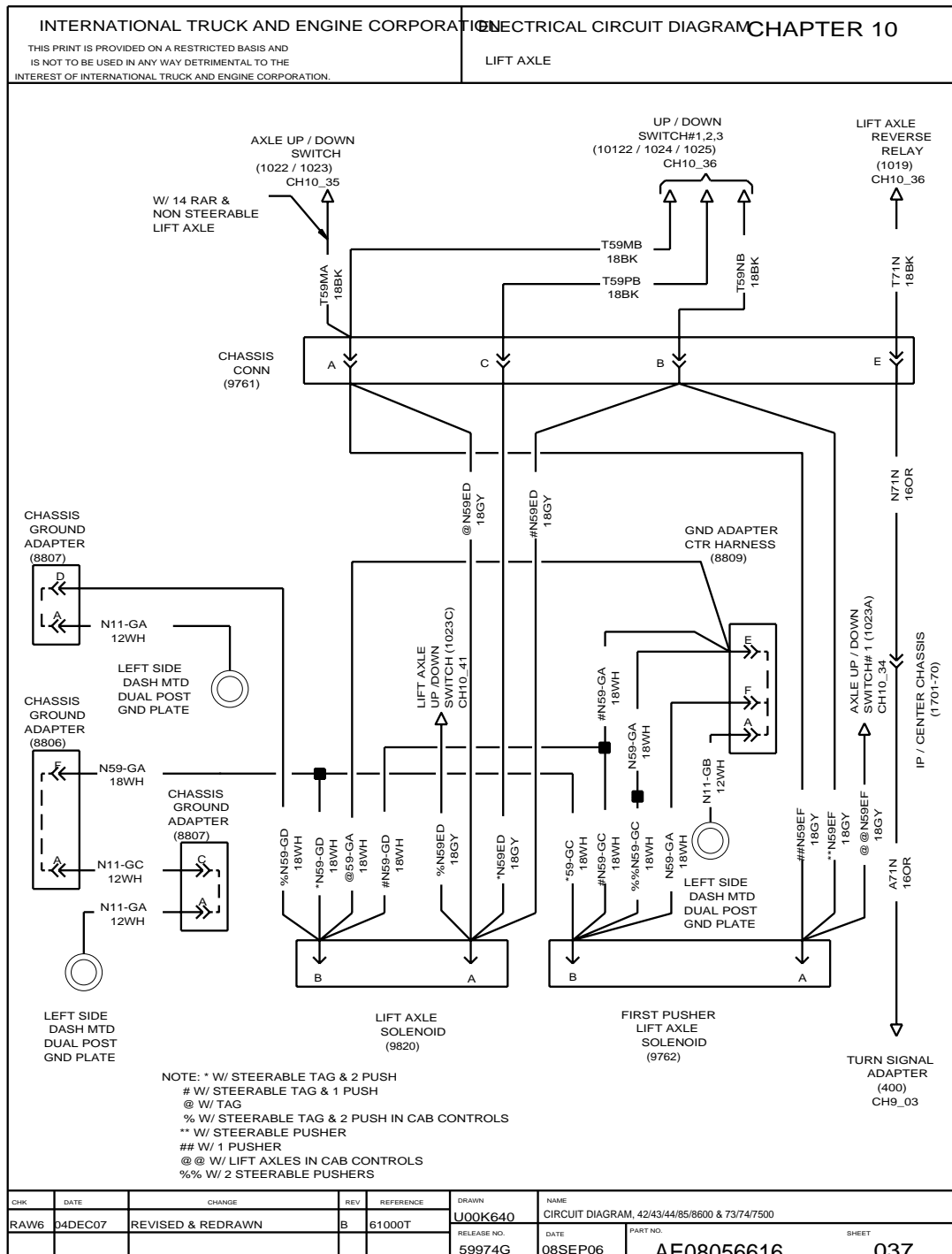


Figure 172 Lift Axles

10.38. LIFT AXLES, P. 37A

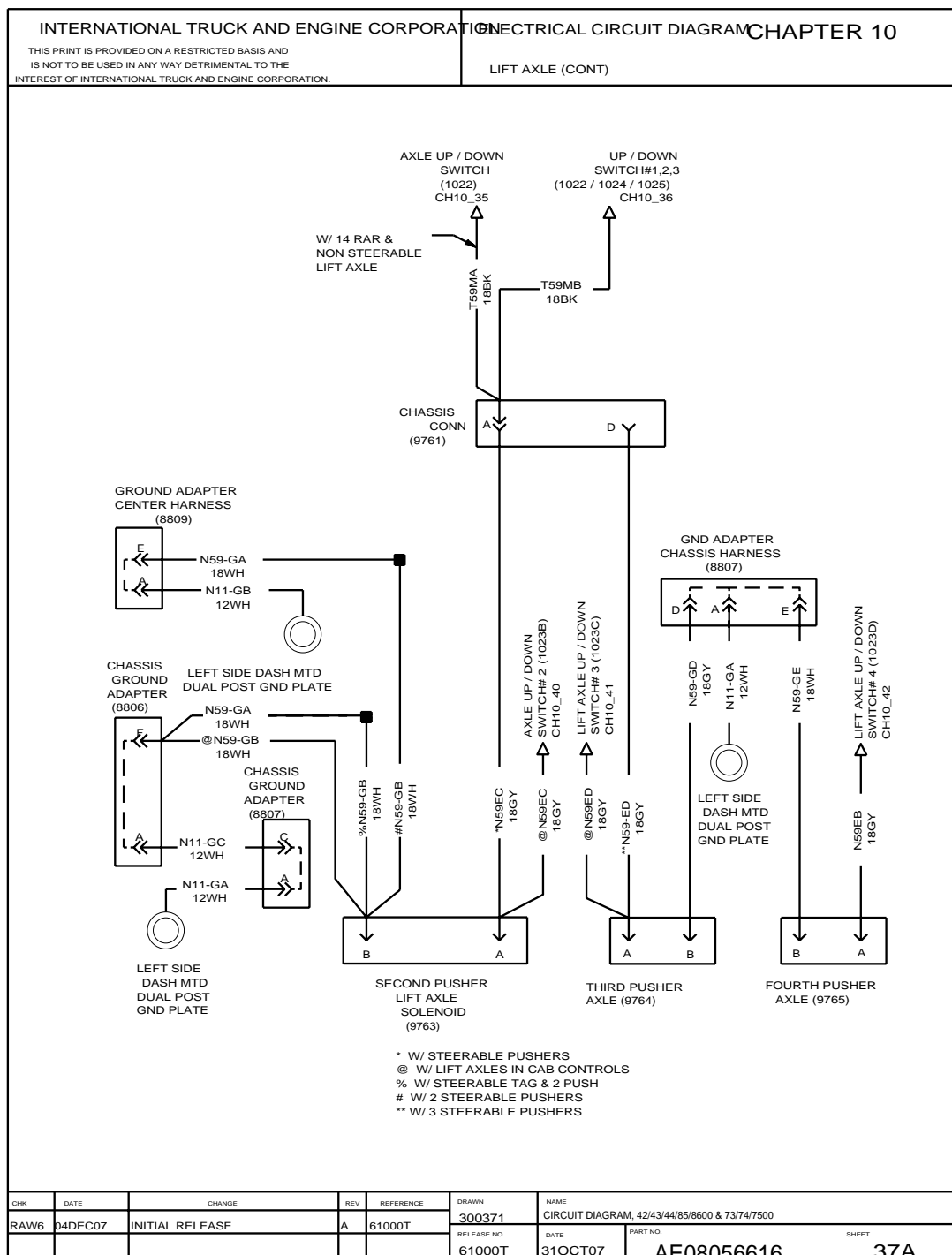


Figure 173 Lift Axles

10.39. ABS — BENDIX AIR 6S/6M, P. 38

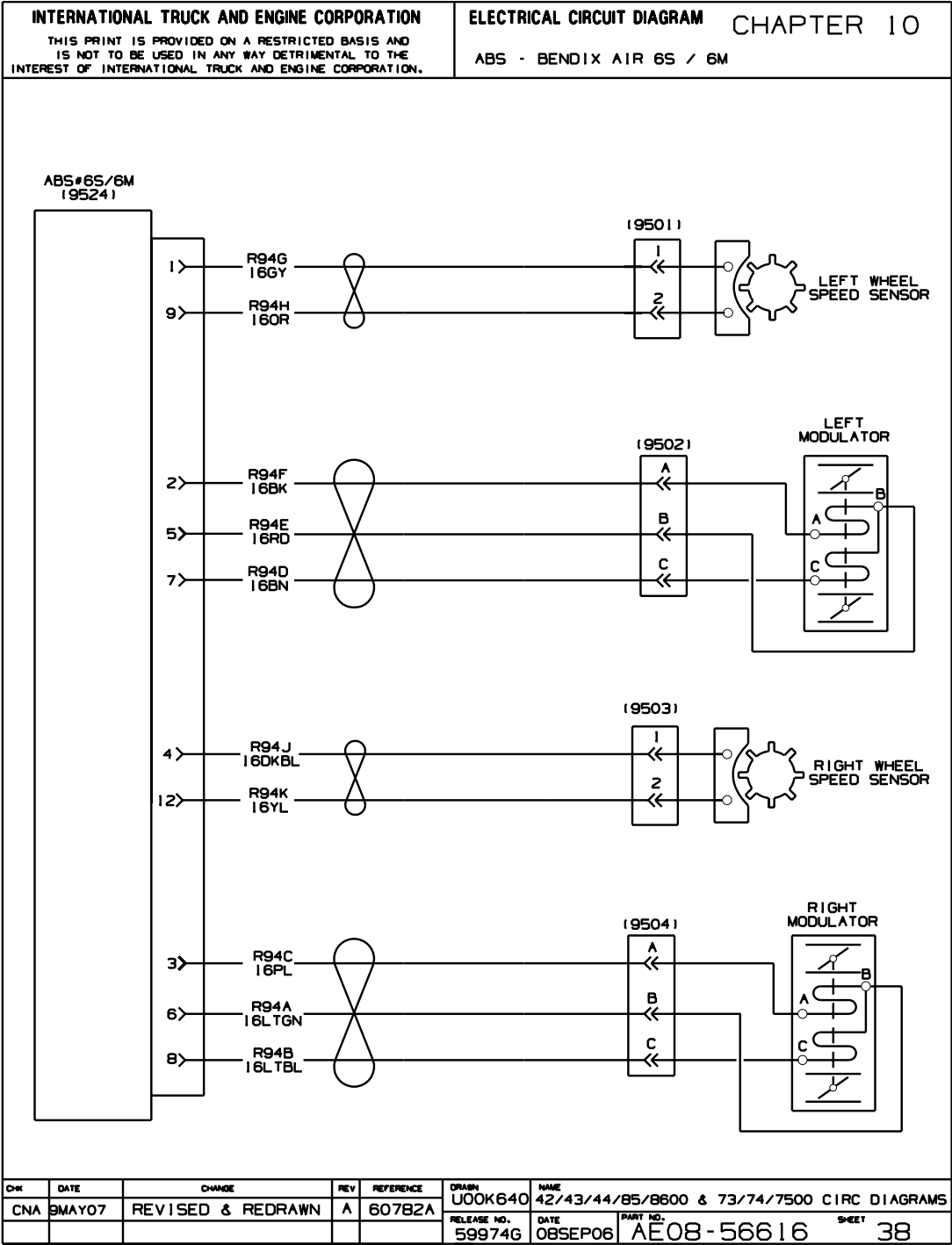


Figure 174 ABS — Bendix Air 6S/6M

10.40. ABS — BENDIX AIR 6S/6M, P. 39

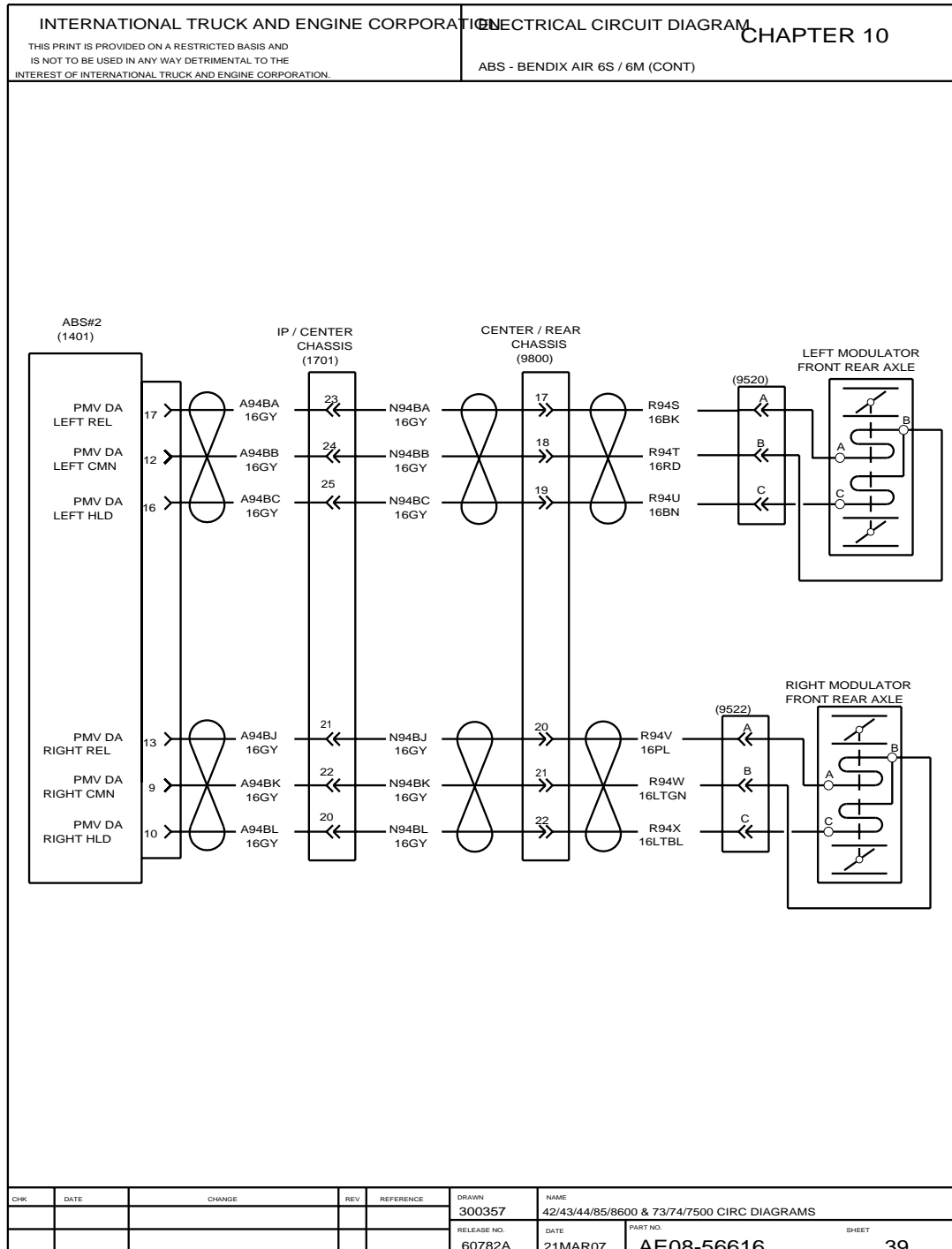


Figure 175 ABS — Bendix Air 6S/6M

10.42. LIFT AXLE WITH CONTROLS FOR THREE LIFT AXLES, P. 41

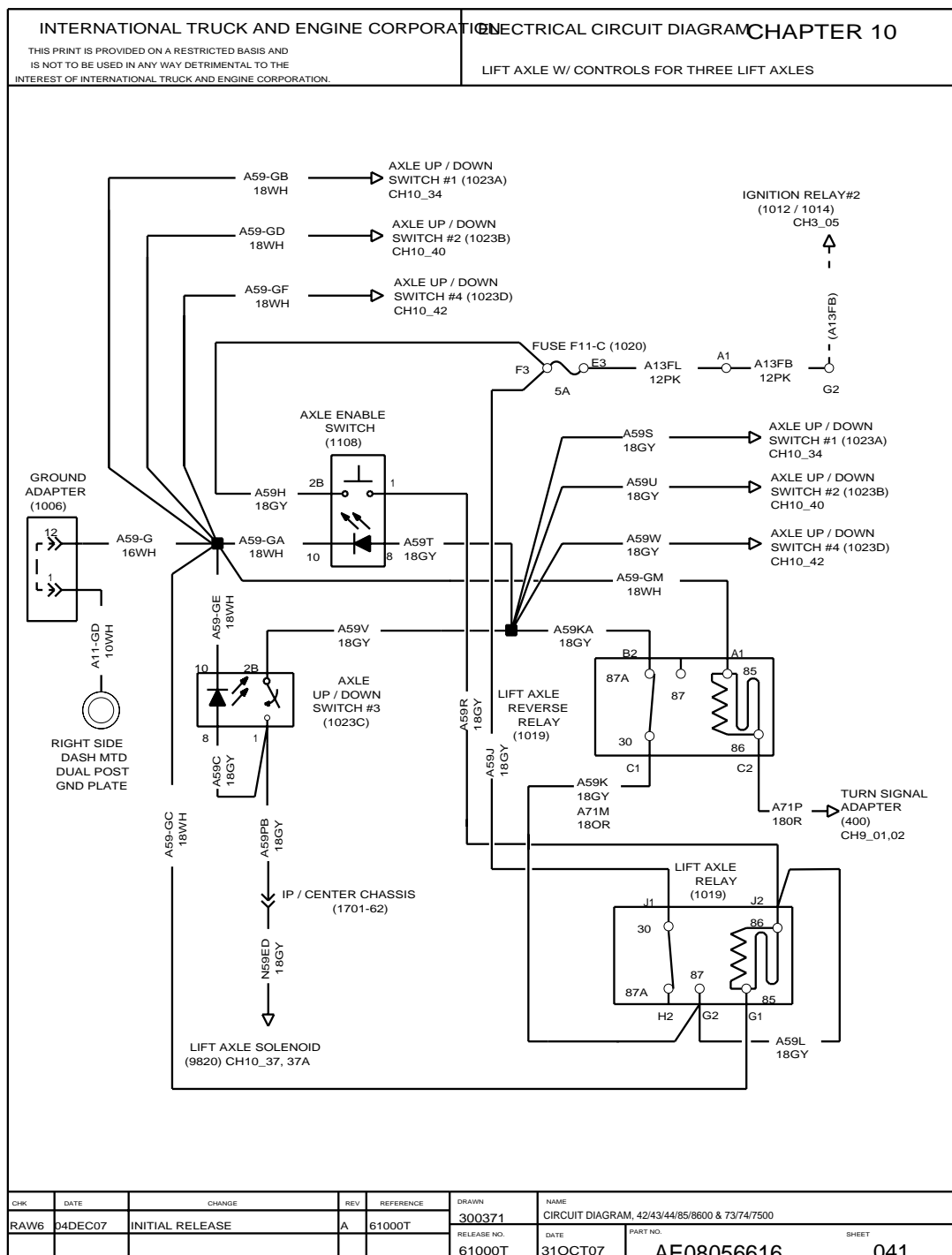


Figure 177 Lift Axle with Controls for Three Lift Axles

10.43. LIFT AXLE WITH CONTROLS FOR FOUR LIFT AXLES, P. 42

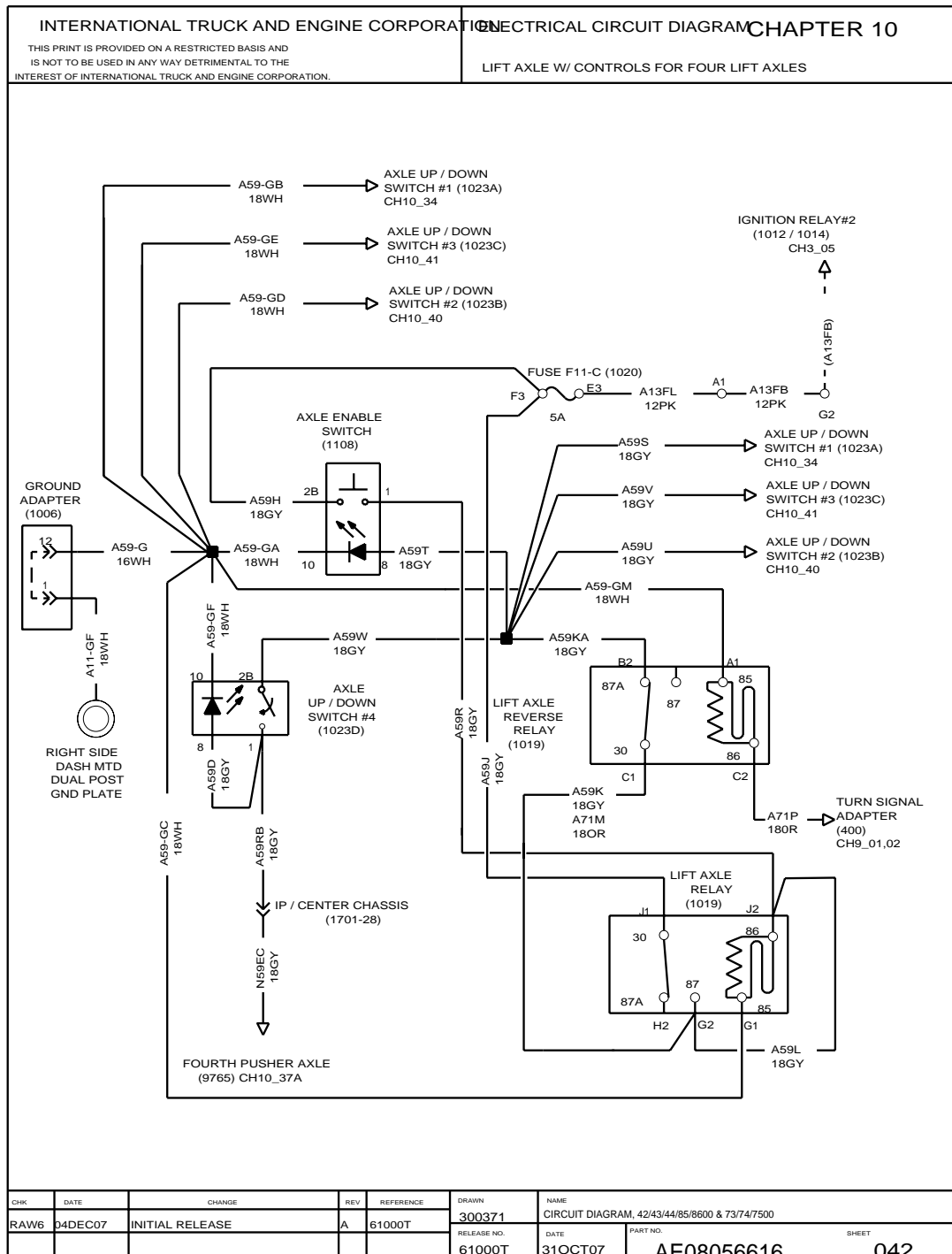


Figure 178 Lift Axle with Controls for Four Lift Axles

10.44. ABS ESP / RSP, P. 43

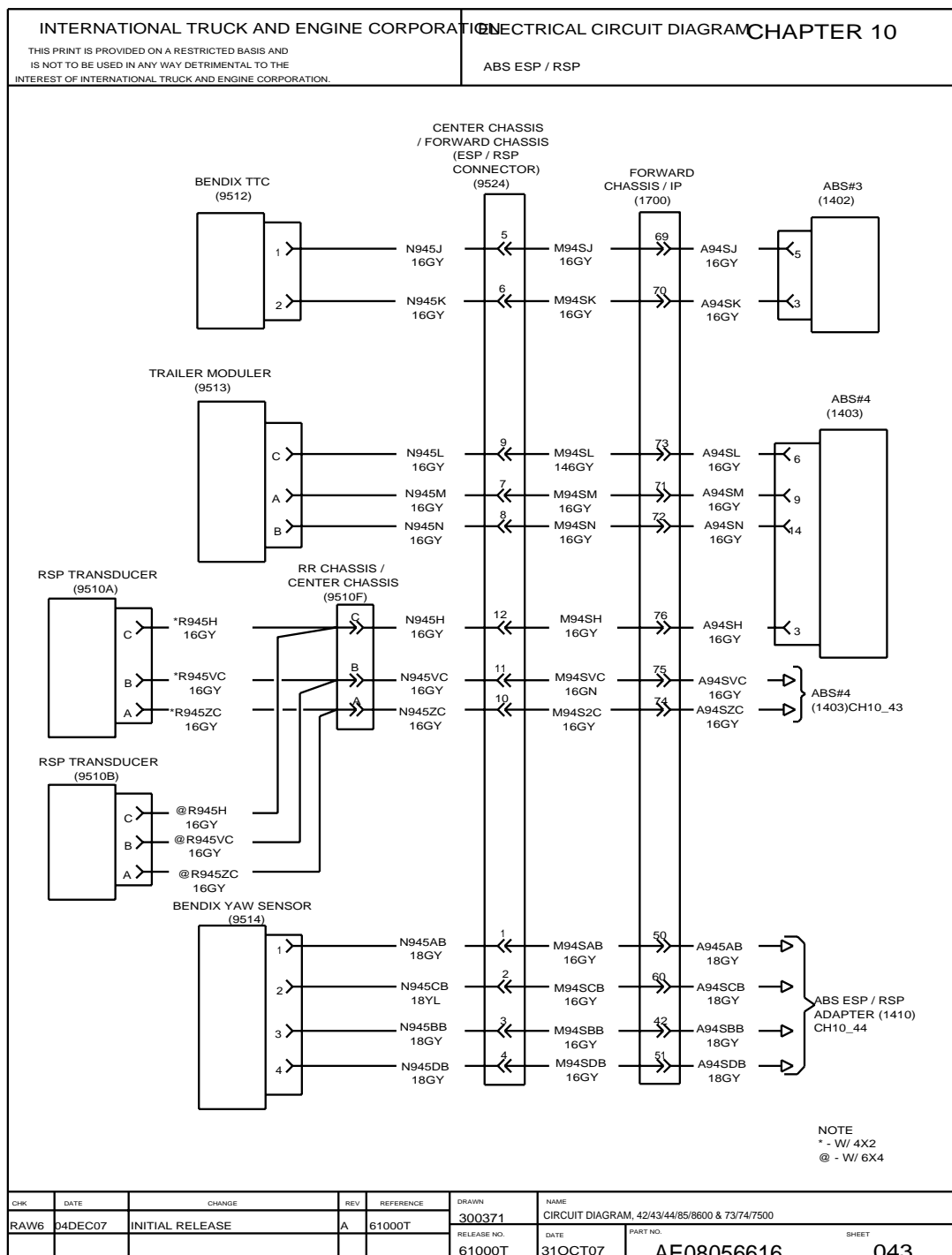


Figure 179 ABS ESP / RSP

10.45. ABS ESP / RSP, P. 44

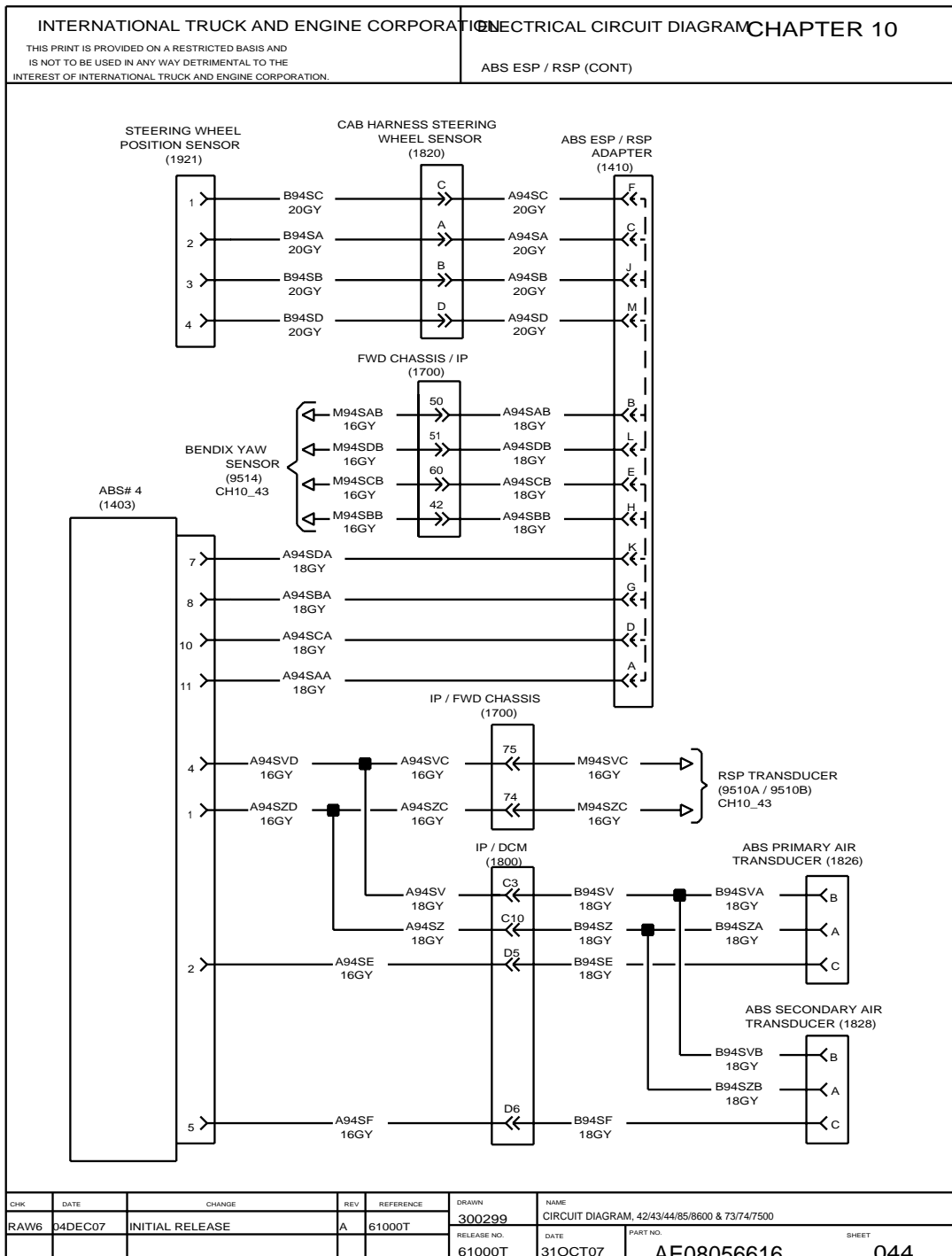


Figure 180 ABS ESP / RSP

11. TRANSMISSIONS (CHAPTER 11)

11.1. ALLISON GEN 4 1/2000 TRANSMISSION WITH I6 AND WITH V8 ENGINE, P. 1

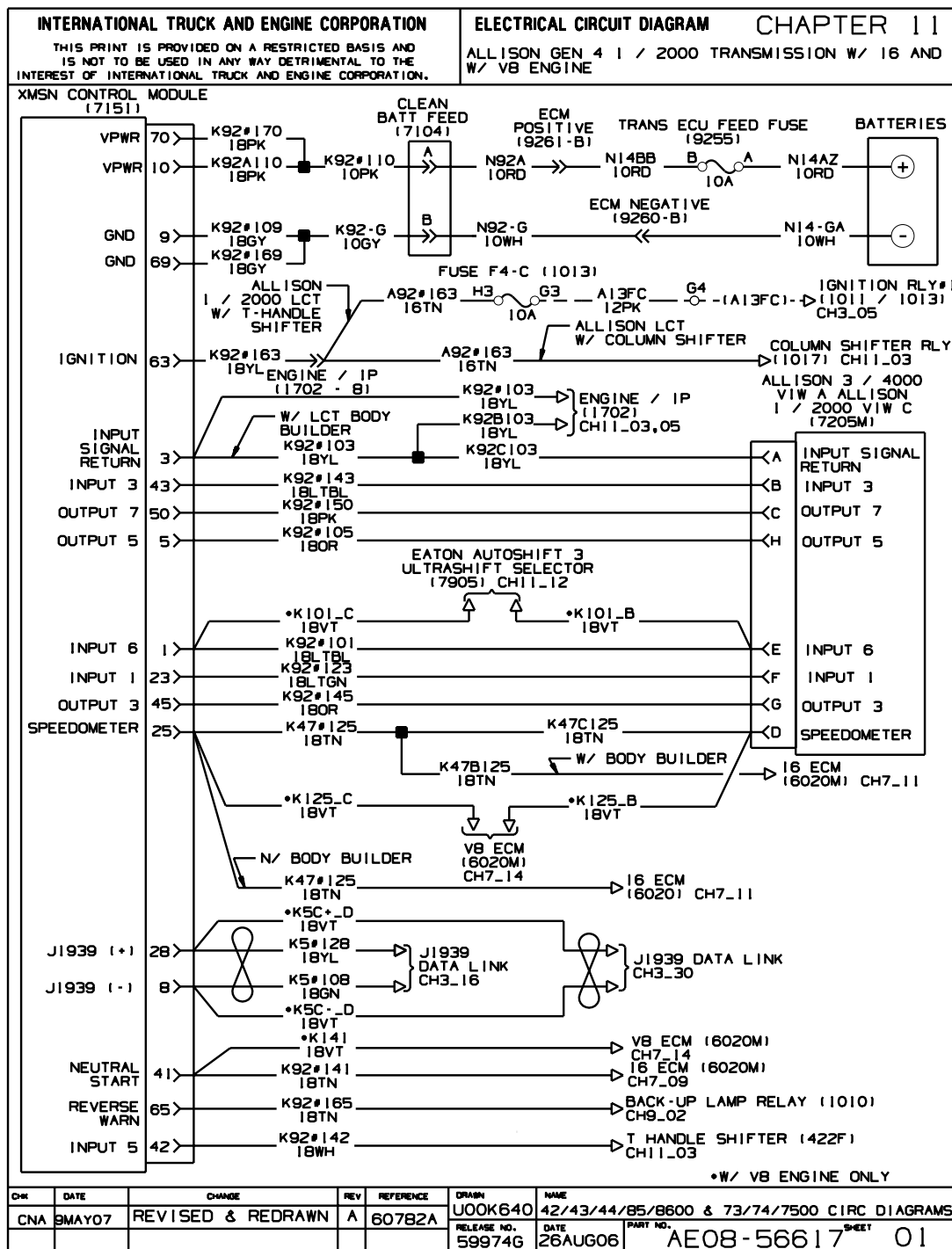


Figure 181 Allison GEN 4 1/2000 Transmission with I6 and with V8 Engine

11.2. ALLISON GEN 4 1/2000 TRANSMISSION WITH I6 AND WITH V8 ENGINE, P. 2

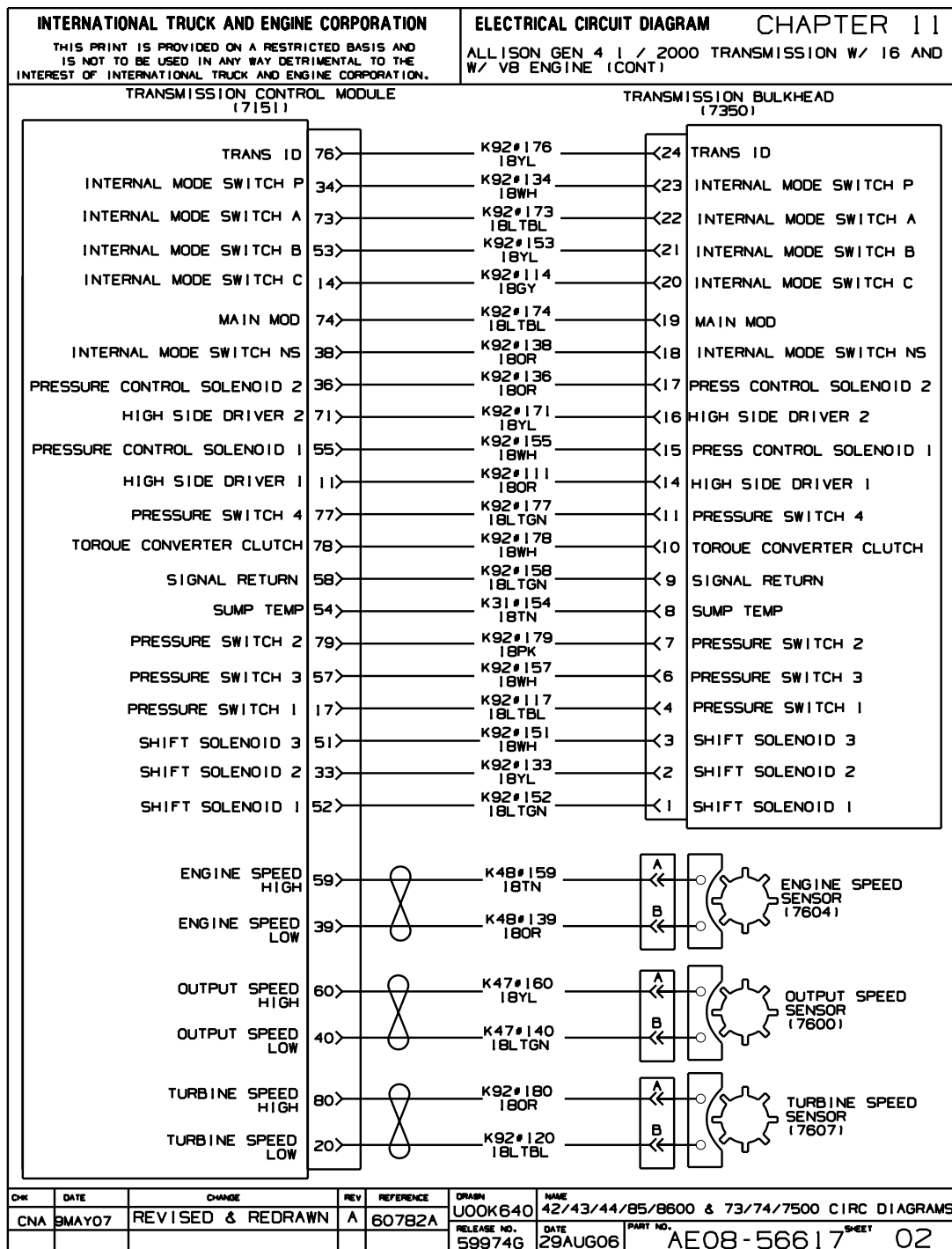


Figure 182 Allison GEN 4 1/2000 Transmission with I6 and with V8 Engine (Cont.)

11.3. ALLISON GEN 4 1/2000 TRANSMISSION W/ I6, CAT, ISM ENGINE, P. 3

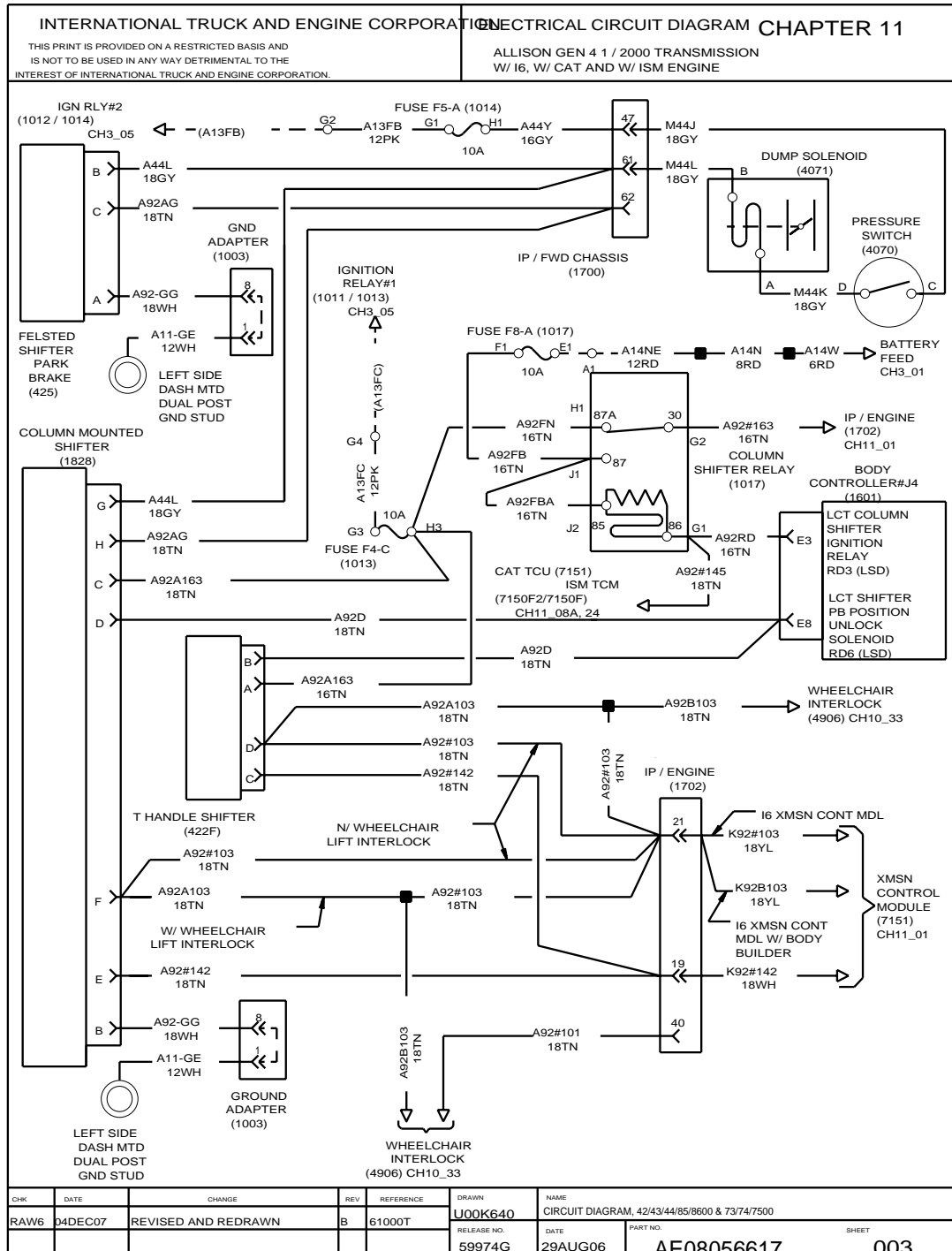


Figure 183 Allison GEN 4 1/2000 Transmission W/ I6, CAT, ISM Engines

11.4. TRANSMISSION, ALLISON MD WITH I6 AND WITH V8 ENGINE, P. 4

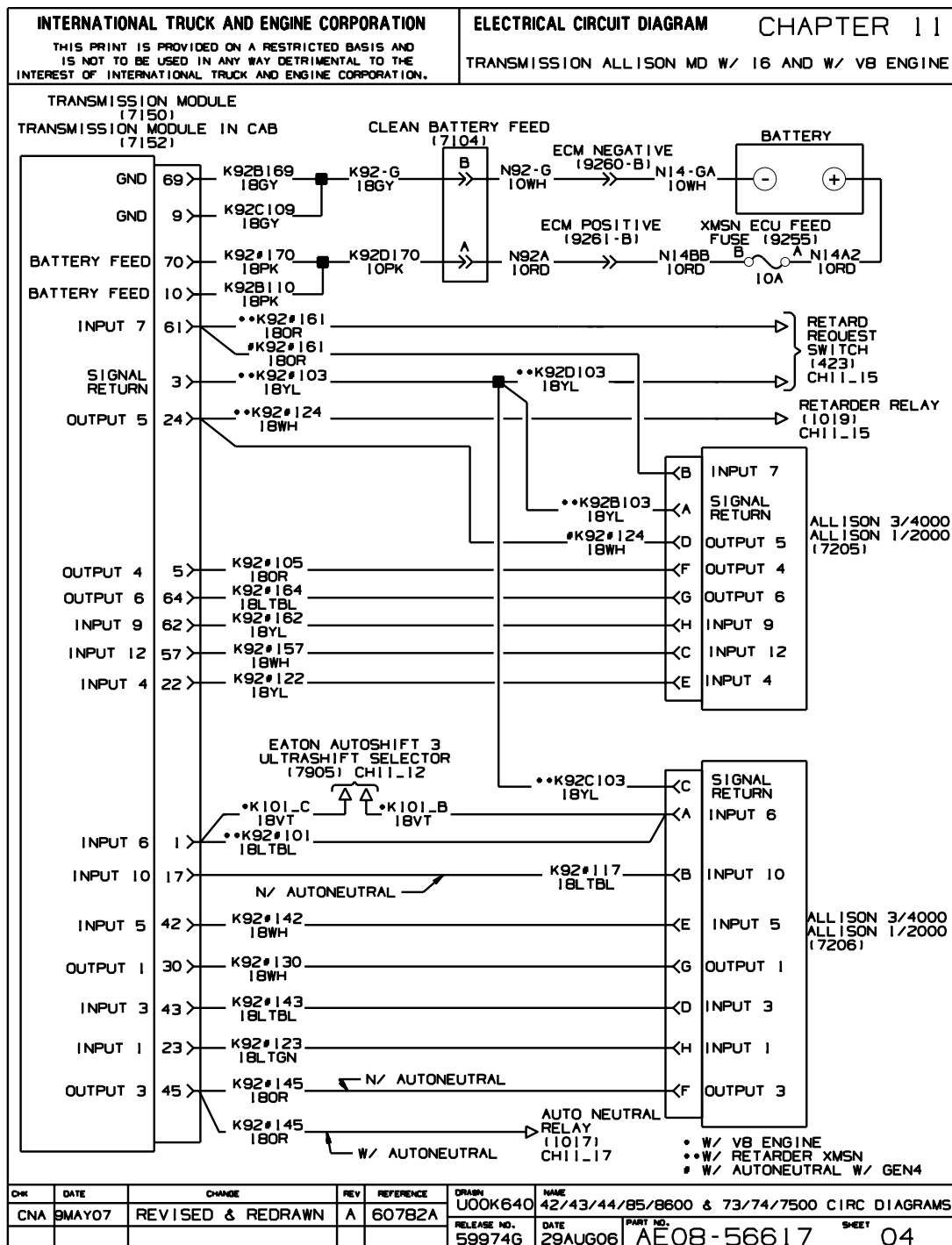


Figure 184 Transmission, Allison MD with I6 and with V8 Engine

11.5. TRANSMISSION, ALLISON MD 3/4000 WITH I6 AND WITH V8 ENGINE, P. 5

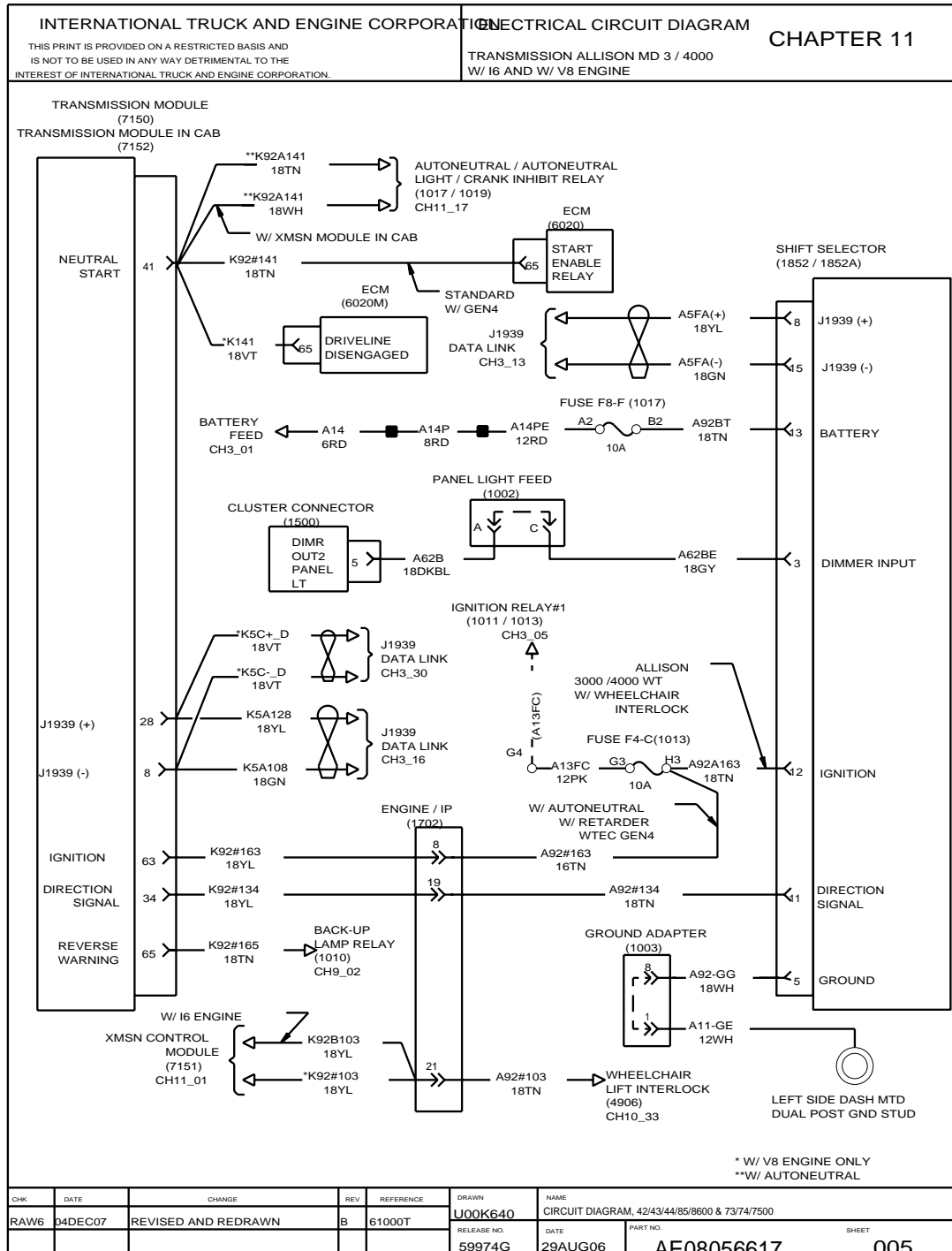


Figure 185 Transmission, Allison MD 3/4000 with I6 and with V8 Engine

11.6. TRANSMISSION, ALLISON MD/HD (WTEC) WITH I6 AND WITH V8 ENGINE, P. 6

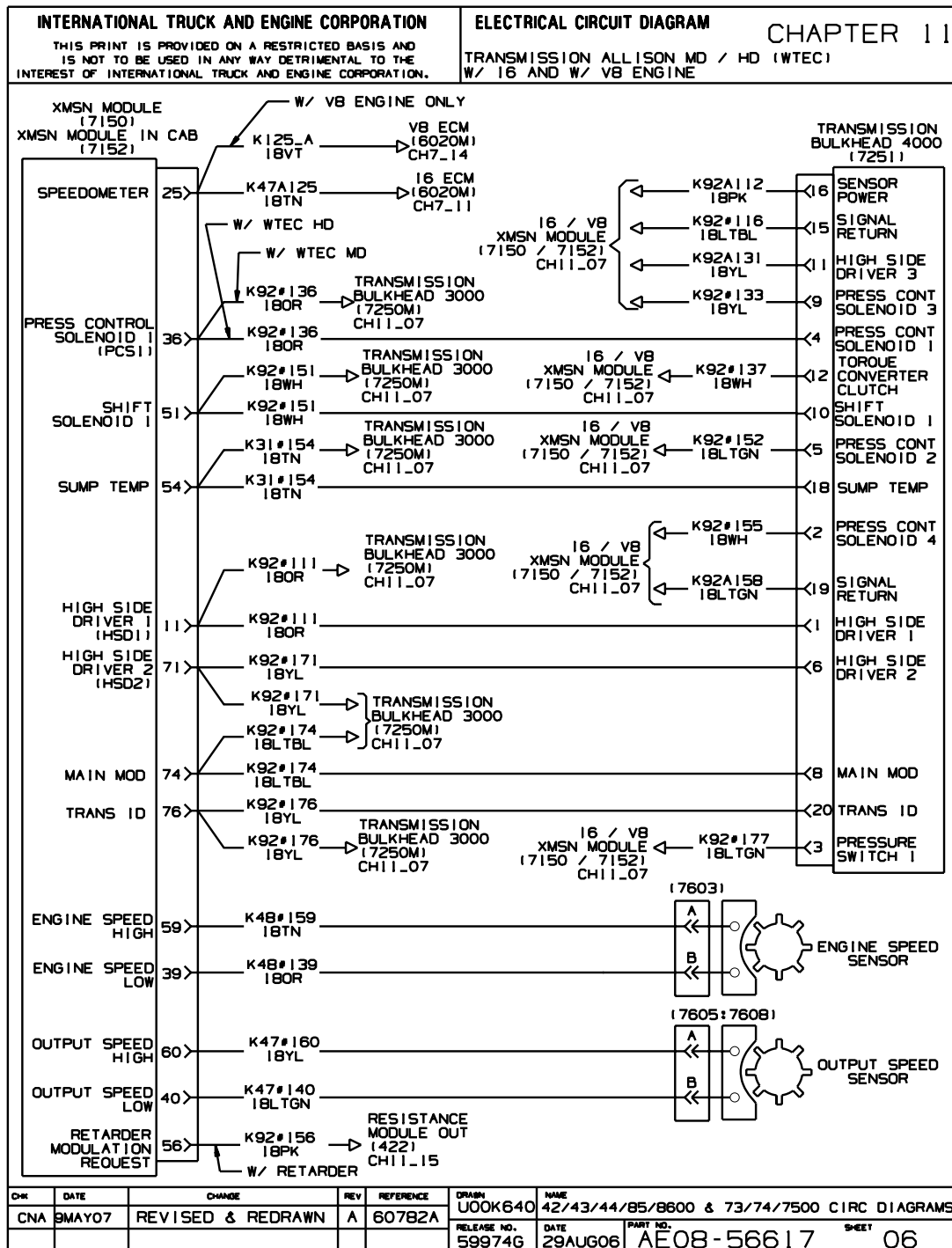


Figure 186 Transmission, Allison MD/HD (WTEC) with I6 and with V8 Engine

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TRANSMISSION ALLISON MD / HD (WTEC) W/ 16 AND W/ V8 ENGINE (CONT)

CHAPTER 11

**XMSN MODULE (7150)
XMSN MODULE IN CAB (7152)**

RETARD SOLENOID (15) *K92#115 18WH

HIGH SIDE DRIVER 3 (HSD 3) (31) *K92A131 18YL, K92A131 18YL, K92#131 18YL

RETARD LAMP (75) *K92#175 18OR

SIGNAL RETURN (58) *K92A158 18LTGN

TURBINE SPEED HIGH (80) K92A158 18LTGN, K92A158 18LTGN

TURBINE SPEED LOW (20) K92C120 18LTBL, K92A120 18LTBL

WTEC MD W/ RETARDER (12) K92A112 18PK

WTEC MD W/ AUTONTRL (16) K92A112 18PK

WTEC HD STANDARD (16) K92A112 18PK

SENSOR POWER (12) K92A112 18PK

SIGNAL RETURN (16) K92A112 18PK

PRESS CONT SOLENOID 3 (PCS 3) (33) K92#116 18LTBL, K92#116 18LTBL, K92#133 18YL, K92#133 18YL

TORQUE CONVERTER CLUTCH (37) K92#137 18WH, K92#137 18WH

PRESS CONT SOLENOID 2 (PCS 2) (52) K92#152 18LTGN, K92#152 18LTGN

PRESS CONT SOLENOID 4 (PCS 4) (55) K92#155 18LTGN, K92#155 18WH, K92#155 18WH

PRESSURE SWITCH 1 (77) K92#177 18LTGN, K92#177 18LTGN

TRANSMISSION BULKHEAD 4000 (7251) CH11_06

RETARDER SOLENOID (7213)

RESISTANCE MODULE OUT (422) CH11_15 (K92D158 18LTGN)

RETARDER TEMP SENDER (7211) (7615)

TURBINE SPEED SENSOR TRANS BULKHEAD 3000 (7250M)

RESISTANCE MODULE OUT (422) CH11_15 (K92B112 18PK)

HSD 3 (11) K92B131 18YL

SIGNAL RETURN (19) K92B158 18LTGN

TURBINE SPEED HIGH (13) K92C112 18PK

TURBINE SPEED LOW (14) K92C112 18PK

SENSOR POWER (16) K92C112 18PK

MAIN MOD (8) K92#174 18LTBL

TRANS ID (20) K92#176 18YL

SIGNAL RETURN (15) K92#111 18OR

HSD1 (1) K92#171 18YL

PCS3 (9) K92#136 18OR

HSD2 (6) K92#151 18WH

TCC (12) K92#154 18BTN

PCS1 (4) K92#136 18OR

PCS2 (5) K92#151 18WH

SHIFT SOLENOID 1 (10) K92#154 18BTN

PCS4 (2) K92#154 18BTN

SUMP TEMP (18) K92#154 18BTN

PRESSURE SWITCH 1 (3) K92#154 18BTN

***W/ 16 ENGINE W/ RETARDER ONLY**

Figure 187 Transmission, Allison MD/HD (WTEC) with I6 and with V8 Engine (Cont.)

11.8. TRANSMISSION, ALLISON MD (WTEC), P. 8

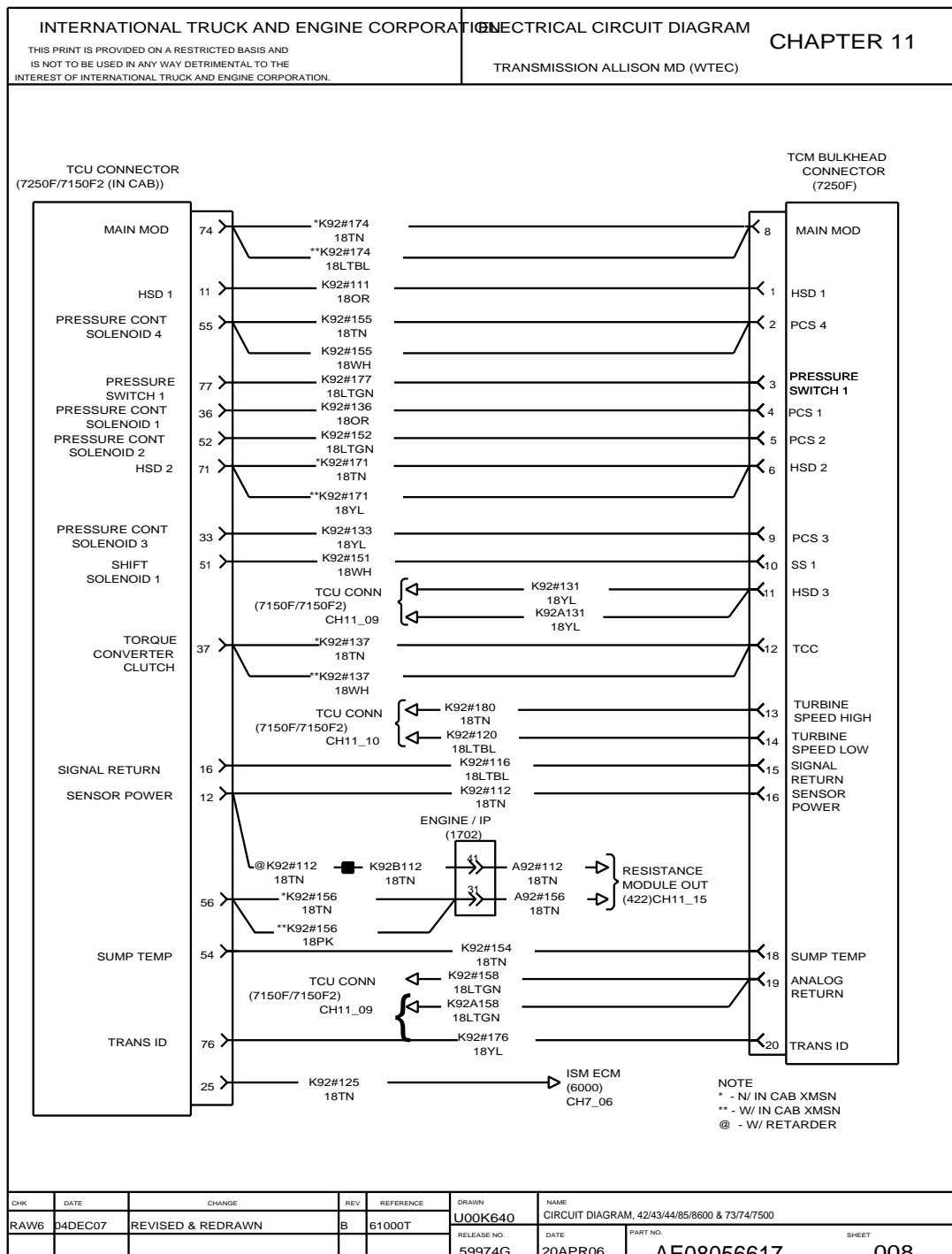


Figure 188 Transmission, Allison MD (WTEC)

11.9. TRANSMISSION, ALLISON MD (WTEC), P. 8A

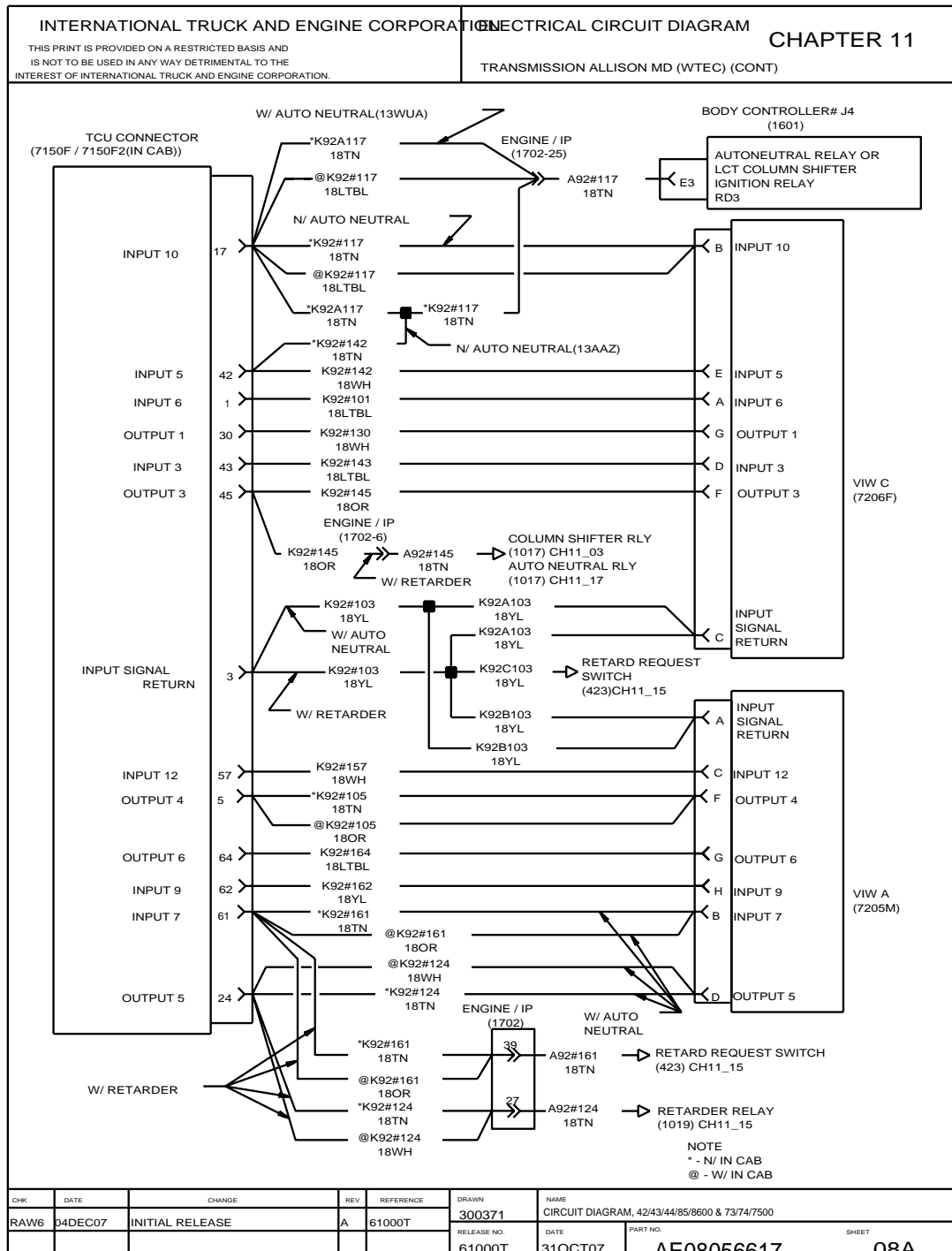


Figure 189 Transmission, Allison MD (WTEC)

11.10. TRANSMISSION, ALLISON MD (WTEC) (ISM ENGINE), P. 9

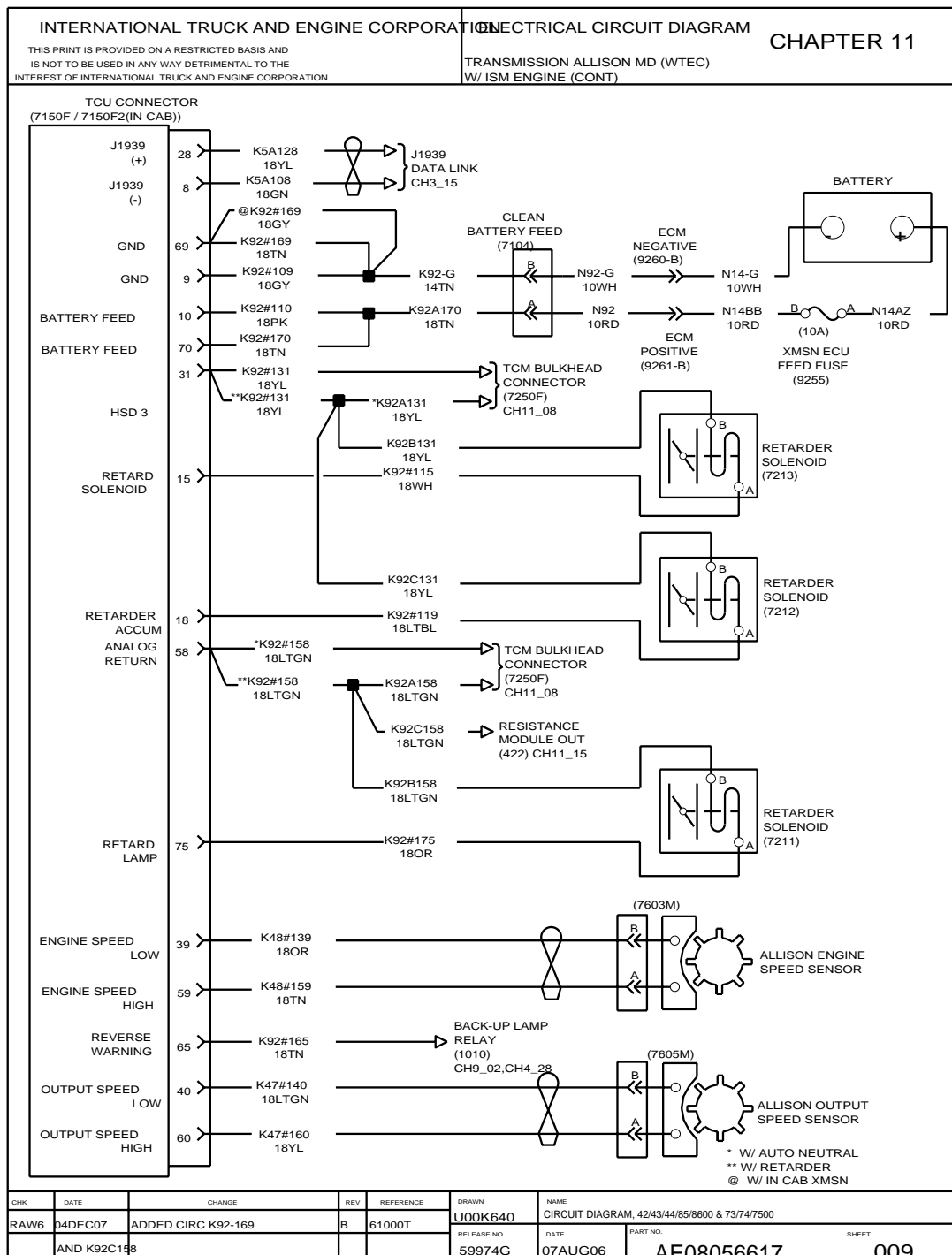


Figure 190 Transmission, Allison MD (WTEC) (ISM Engine)

11.11. TRANSMISSION, ALLISON MD (WTEC) (ISM ENGINE), P. 10

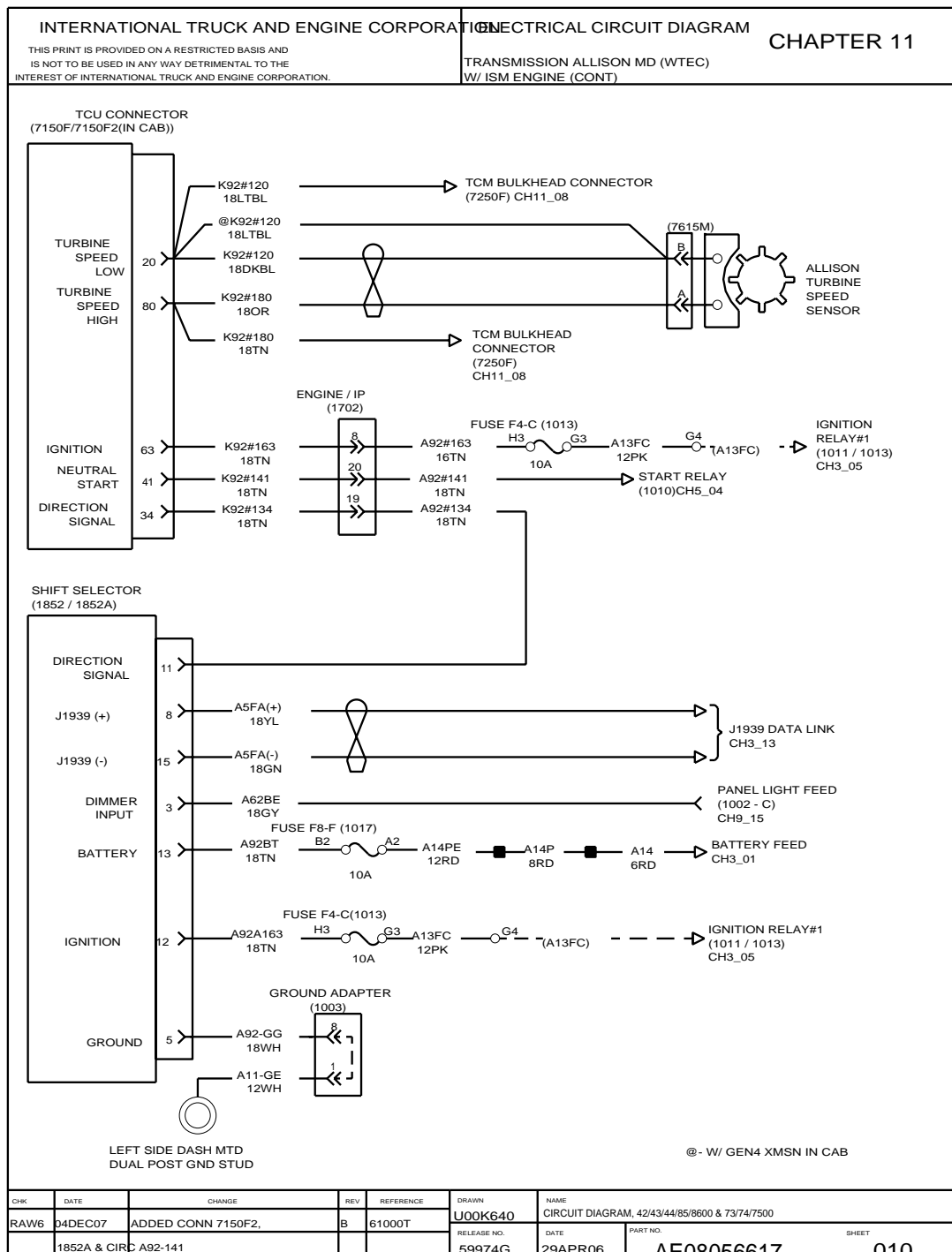


Figure 191 Transmission, Allison MD (WTEC) (ISM Engine) (Cont.)

11.12. EATON AUTOSHIFT TRANSMISSION W/ I6 ENGINE, P. 11

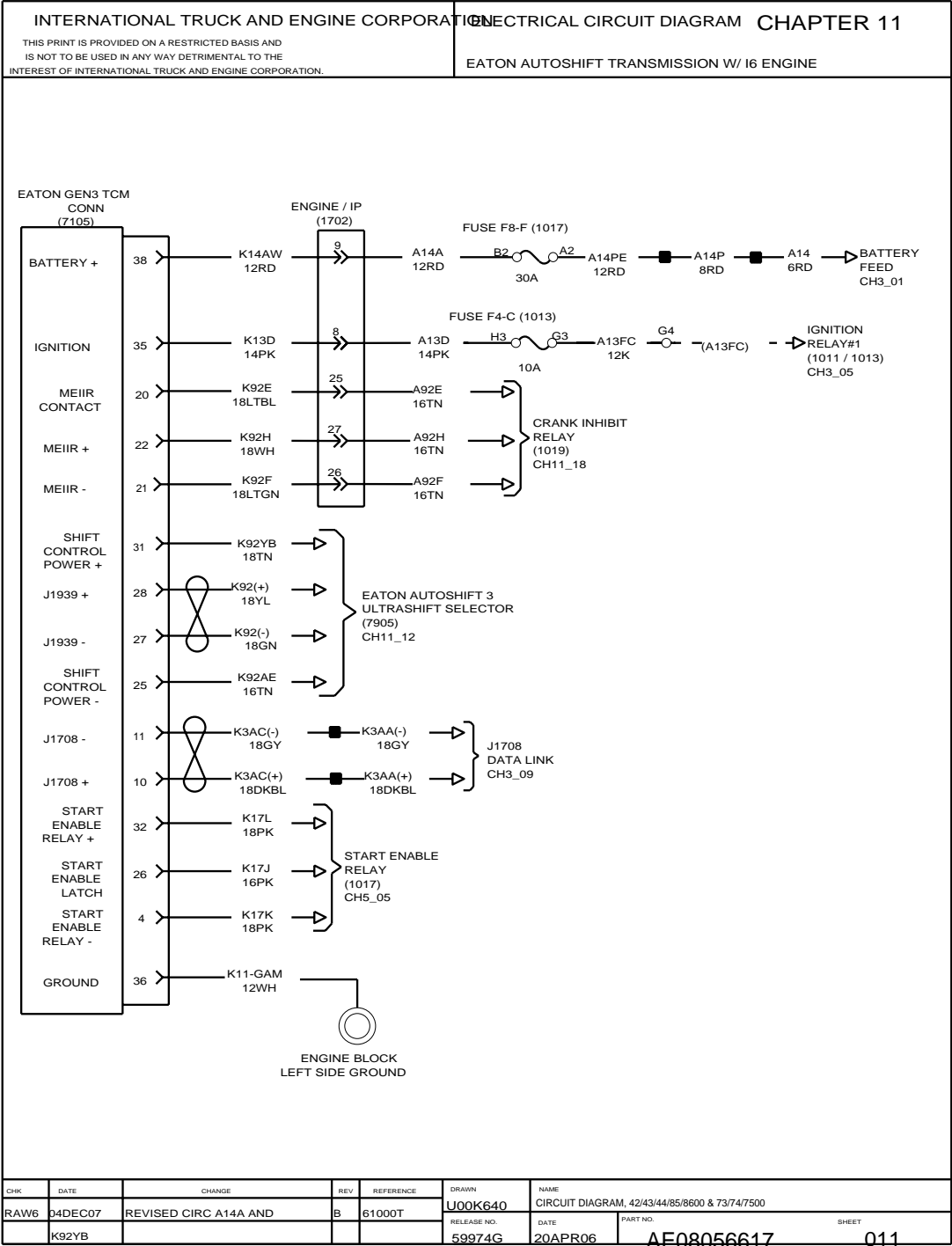


Figure 192 Eaton Autoshift Transmission W/ I6 Engine

11.13. EATON AUTOSHIFT TRANSMISSION, P. 12

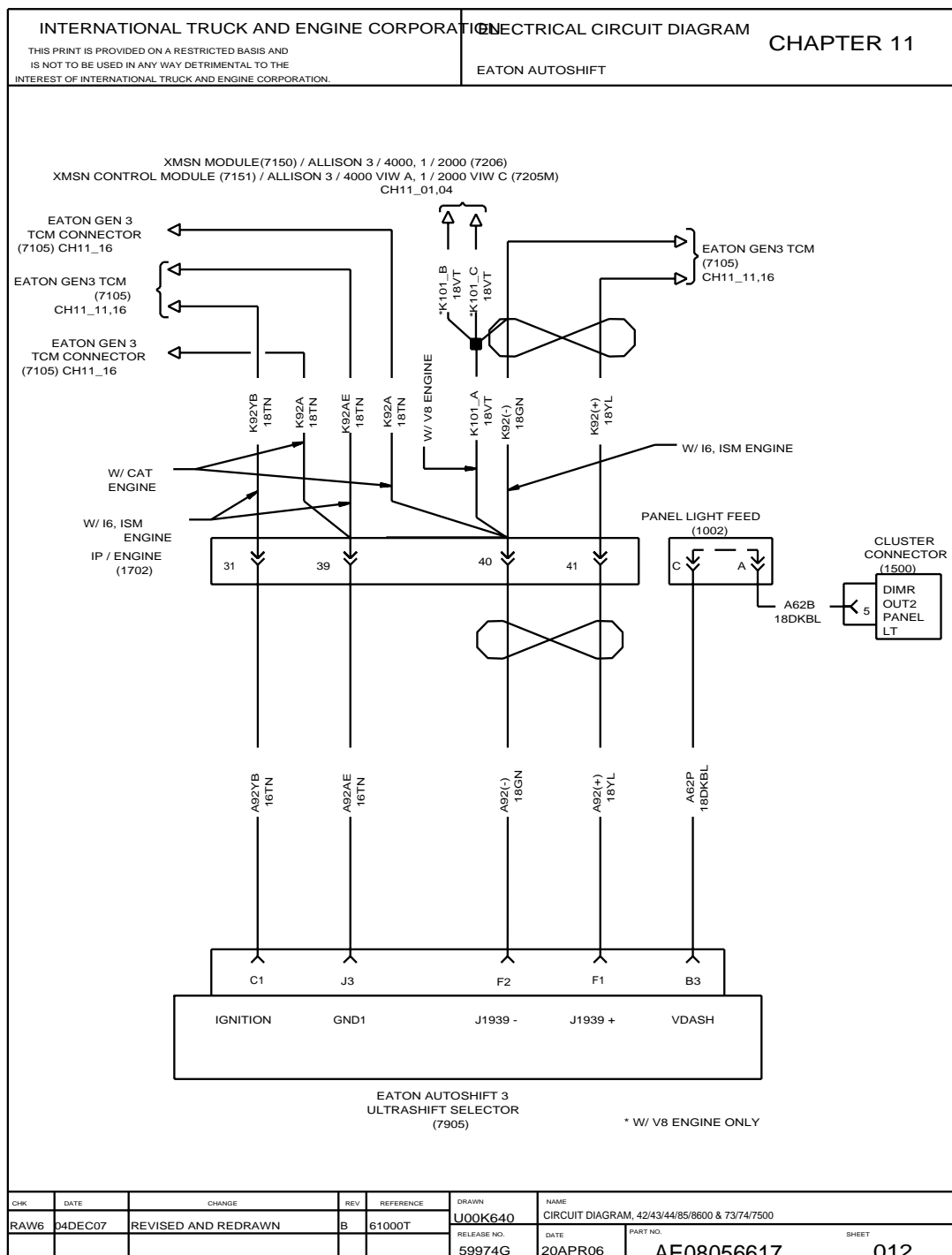


Figure 193 Eaton Autoshift Transmission

11.14. TRANSMISSION ALLISON MD (WTEC) W/ CAT ENGINE, P. 13

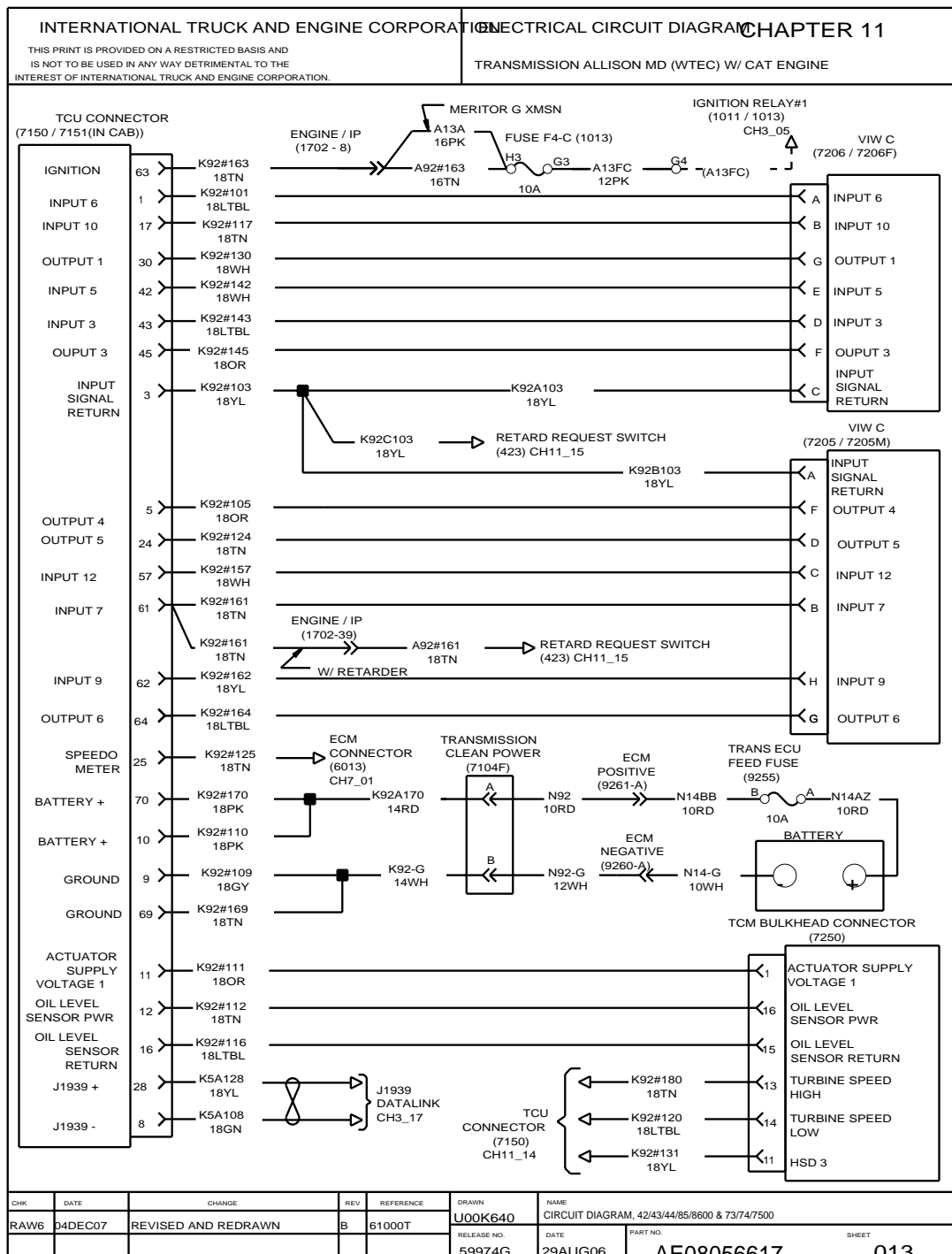


Figure 194 Transmission Allison MD (WTEC) W/ Cat Engine

11.15. TRANSMISSION ALLISON MD (WTEC) W/ CAT ENGINE, P. 14

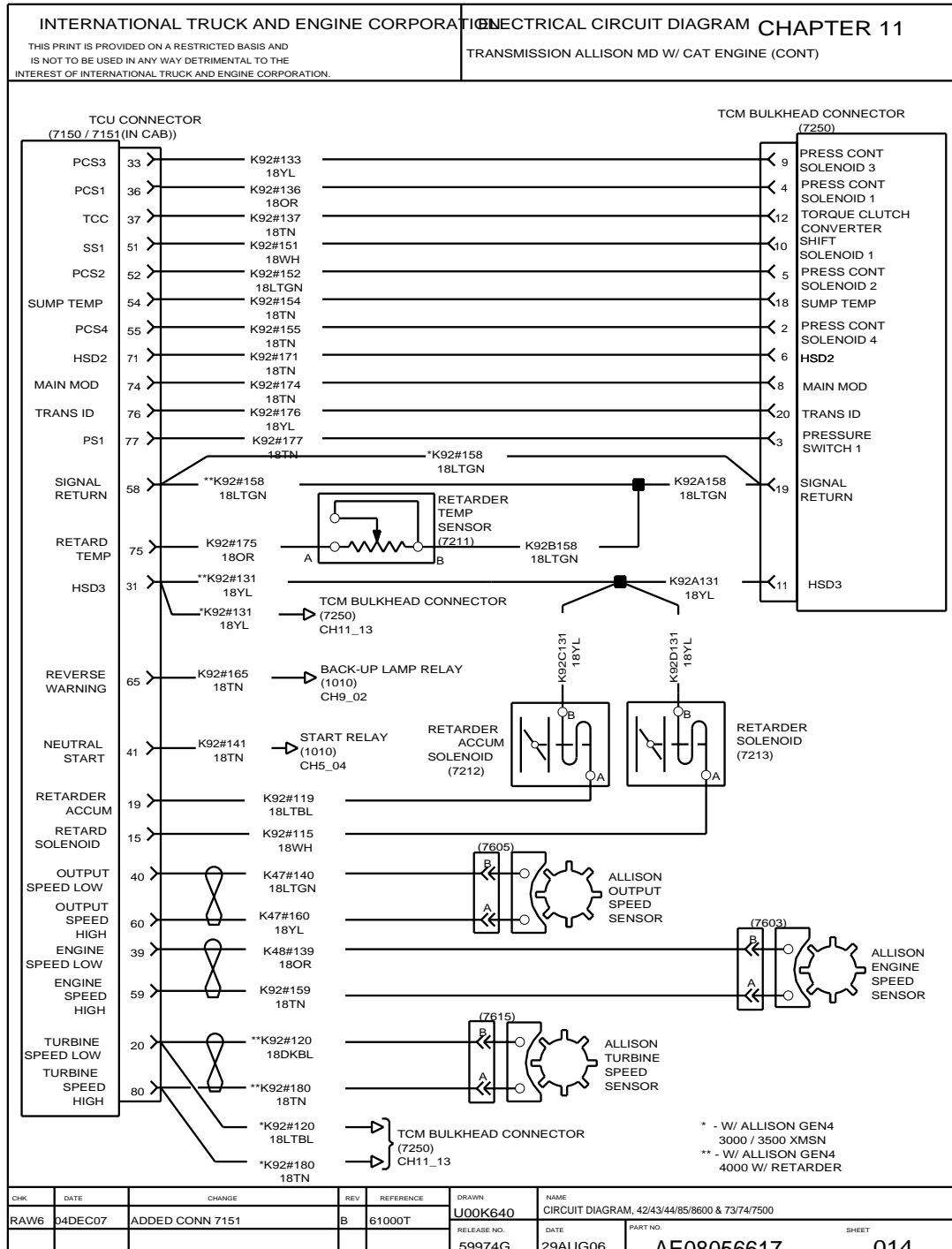


Figure 195 Transmission Allison MD (WTEC) W/ Cat Engine

11.16. TRANSMISSION RETARDER CONTROLS WIRING WITH MD TRANSMISSION HARD WIRED EFFECTS, P. 15

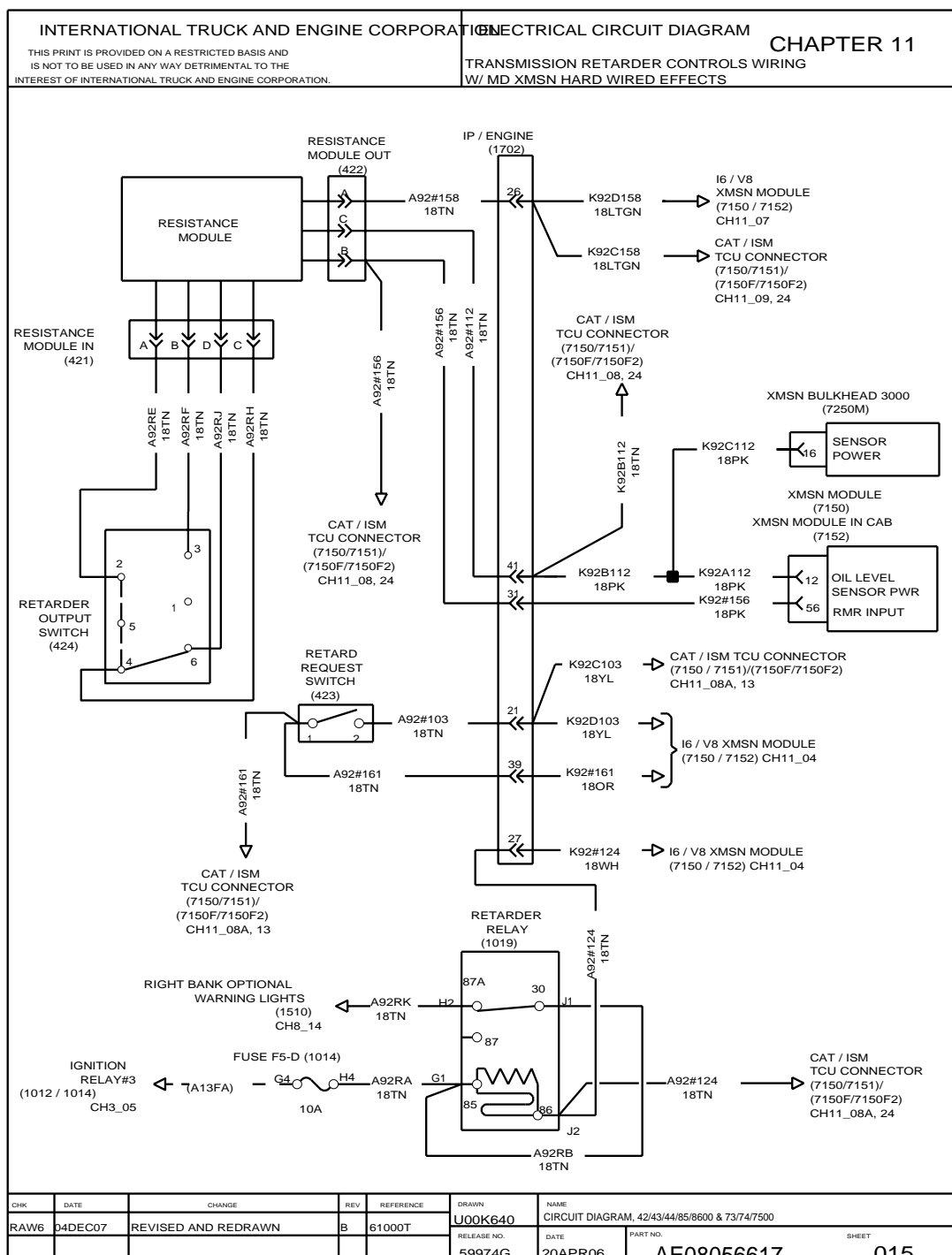


Figure 196 Transmission Retarder Controls Wiring with MD Transmission Hard Wired Effects

11.17. EATON AUTO AND ULTRASHIFT GEN 3 TRANSMISSION W/ CAT AND W/ ISM ENGINE, P. 16

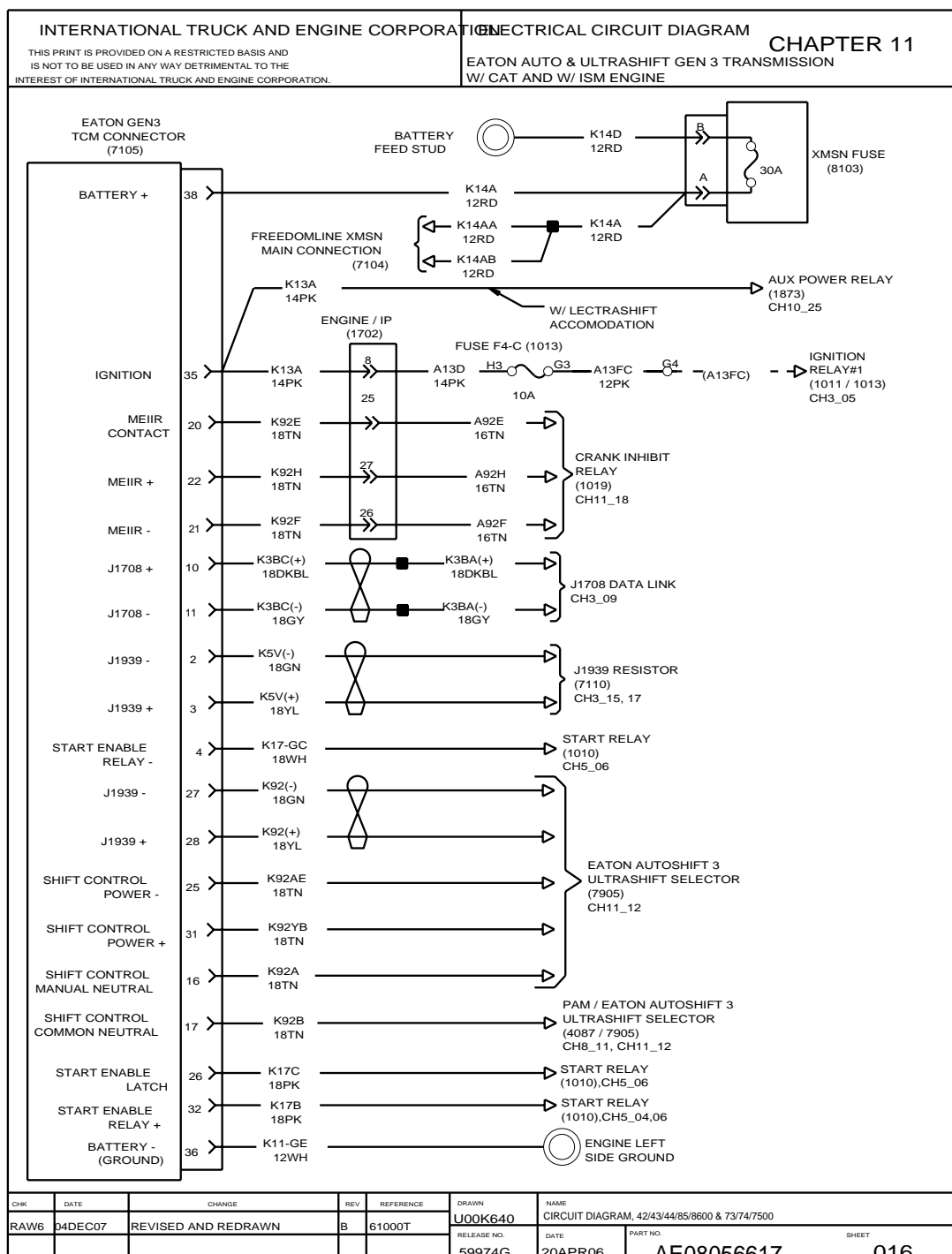


Figure 197 Eaton Auto and Ultrashift Gen 3 Transmission W/ Cat and W/ ISM Engine

11.18. ALLISON TRANSMISSION 3/4000 GEN 4 WITH AUTO NEUTRAL, P. 17

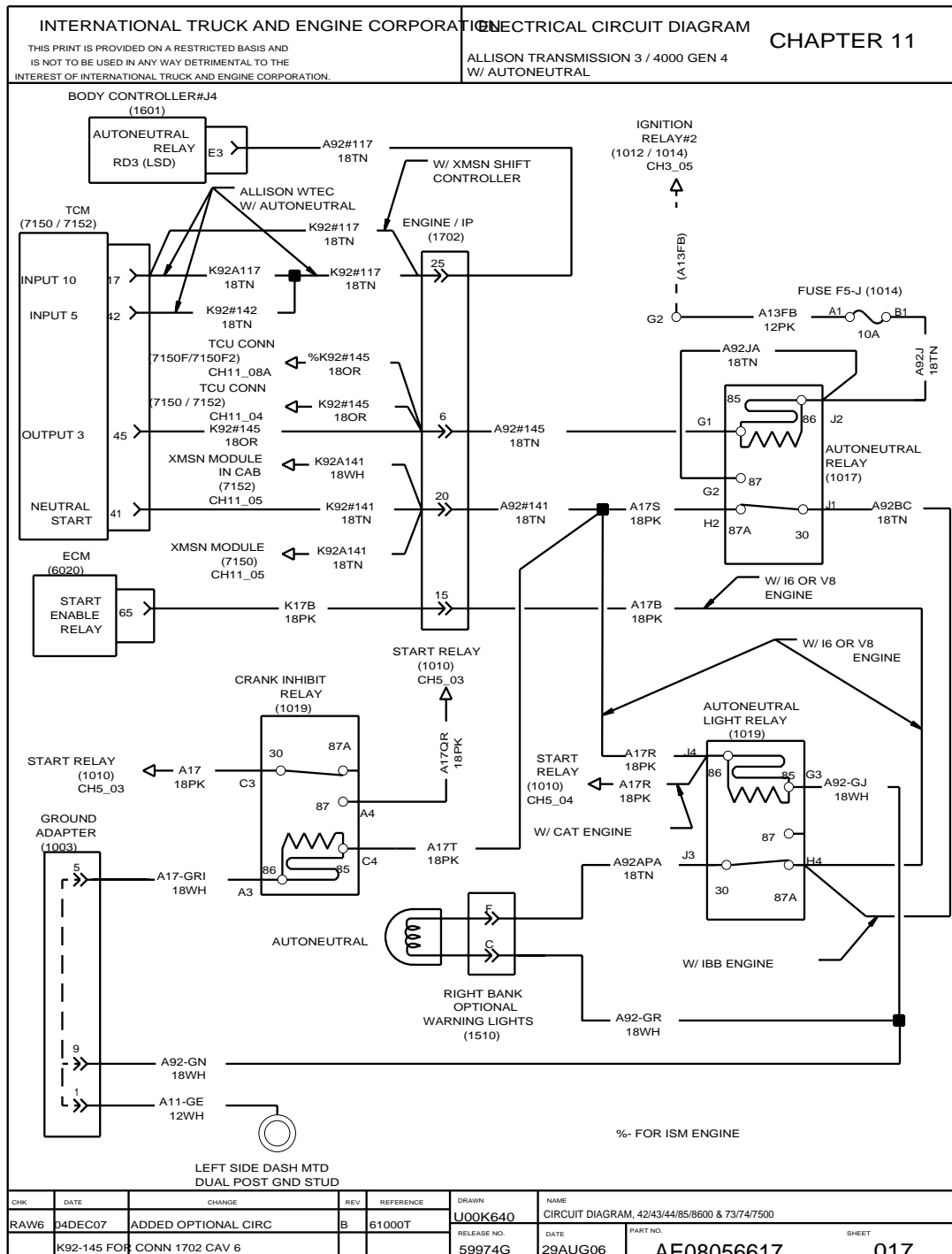


Figure 198 Allison Transmission 3/4000 Gen 4 With Auto Neutral

11.19. EATON ULTRASHIFT GEN 3 / MERITOR — G — MANUAL TRANSMISSION, P. 18

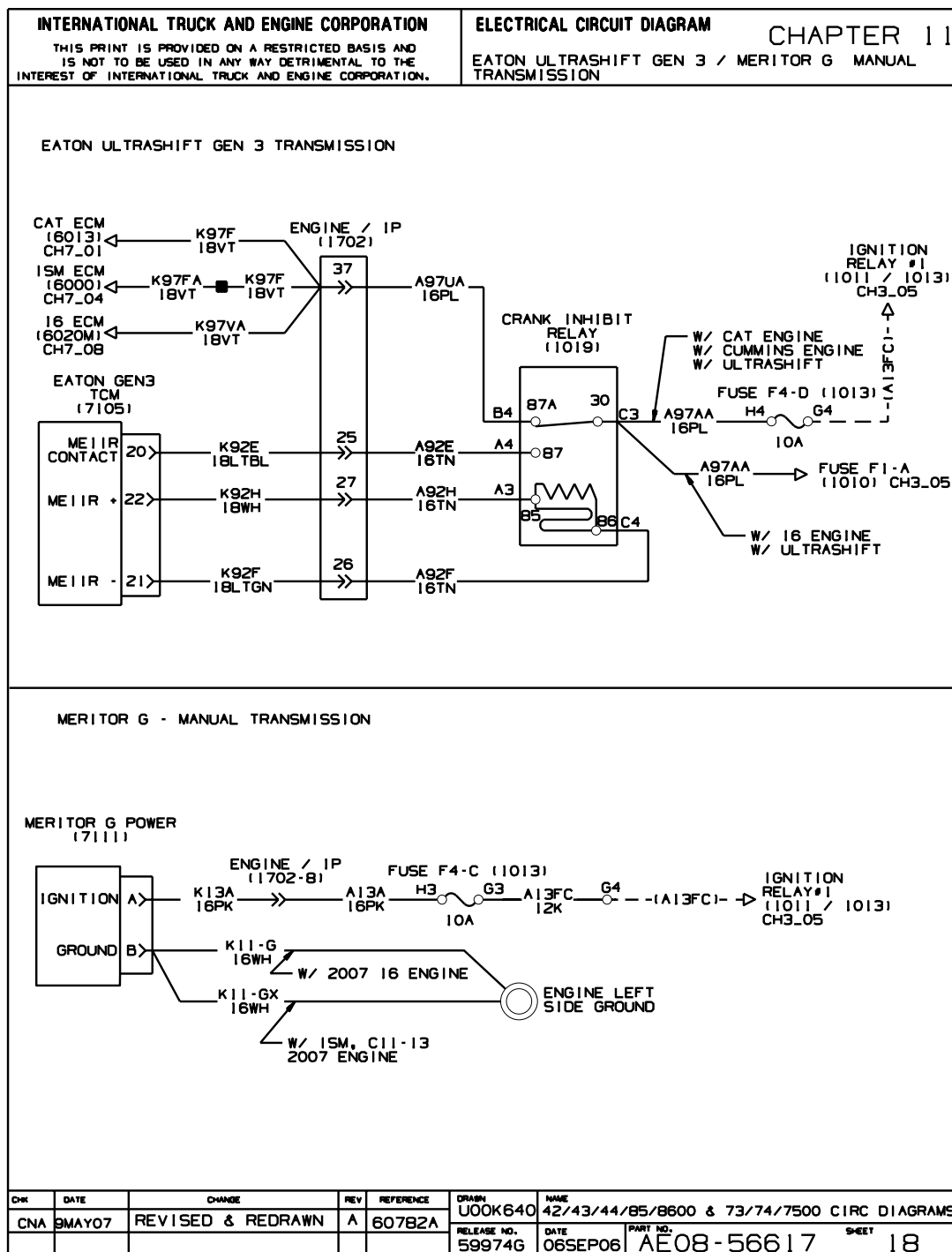
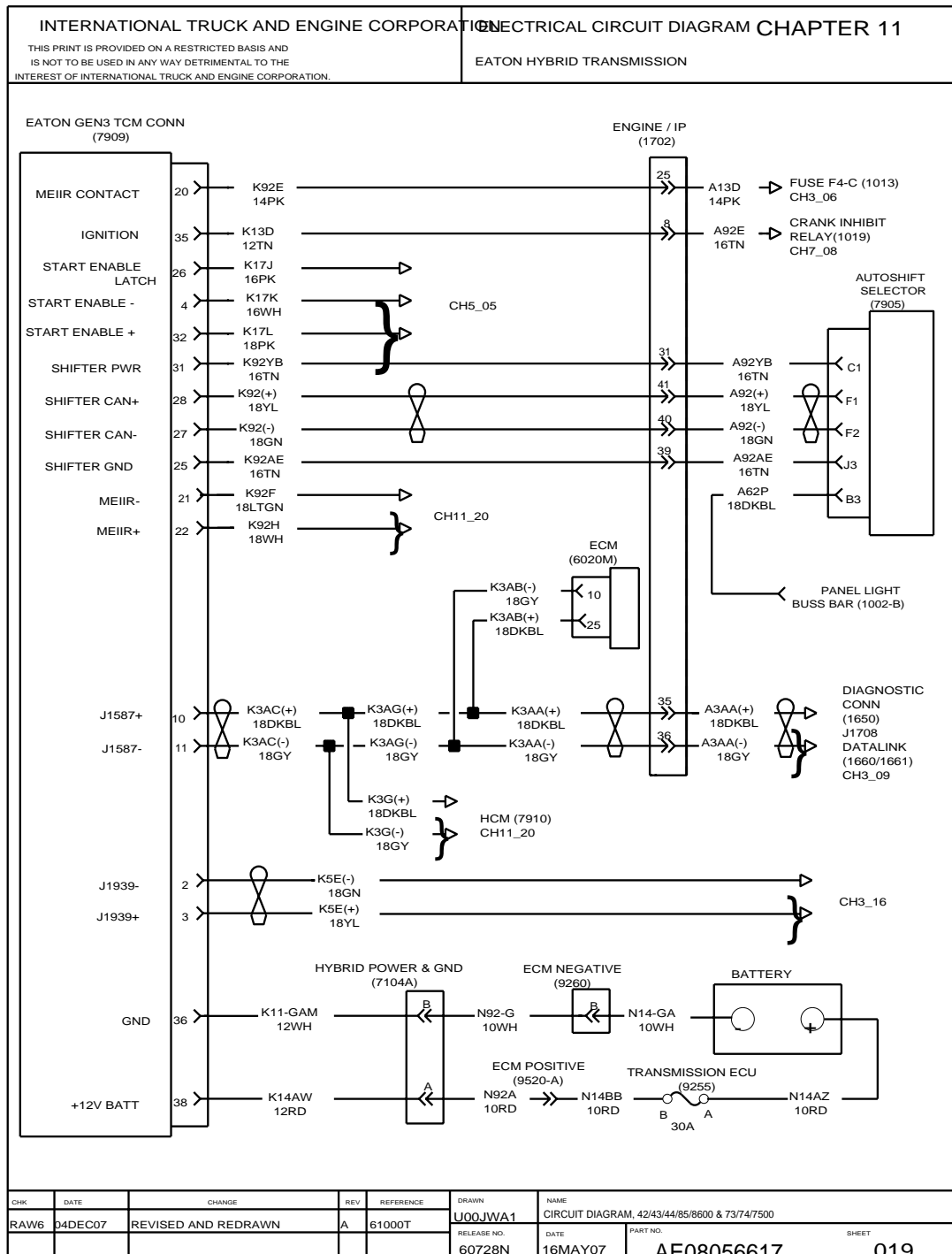


Figure 199 Eaton Ultrashift Gen 3 / Meritor — G — Manual Transmission

11.20. EATON HYBRID TRANSMISSION, P. 19

Figure 200 Eaton Hybrid Transmission

11.21. EATON HYBRID TRANSMISSION, P. 20

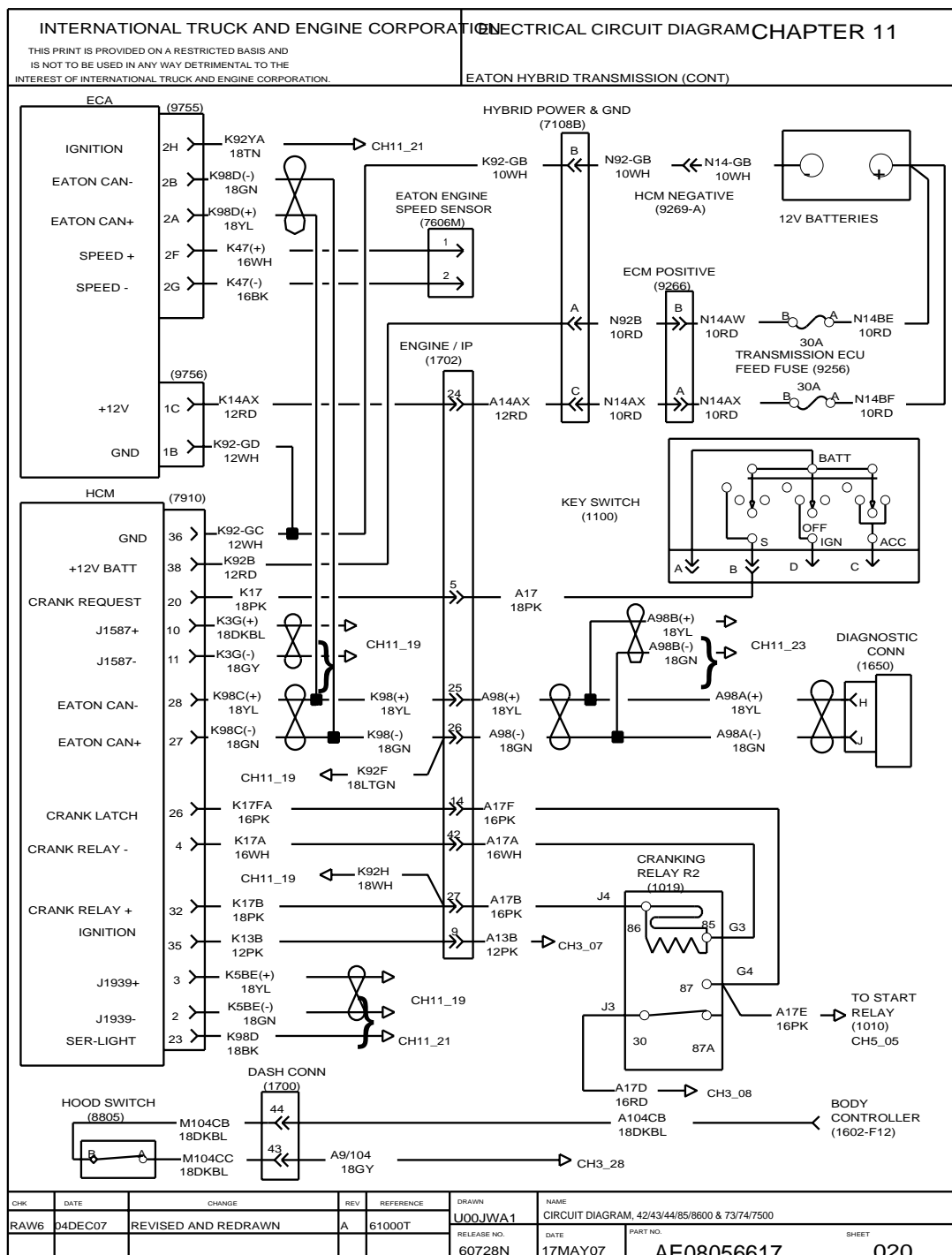


Figure 201 Eaton Hybrid Transmission

11.22. EATON HYBRID TRANSMISSION, P. 21

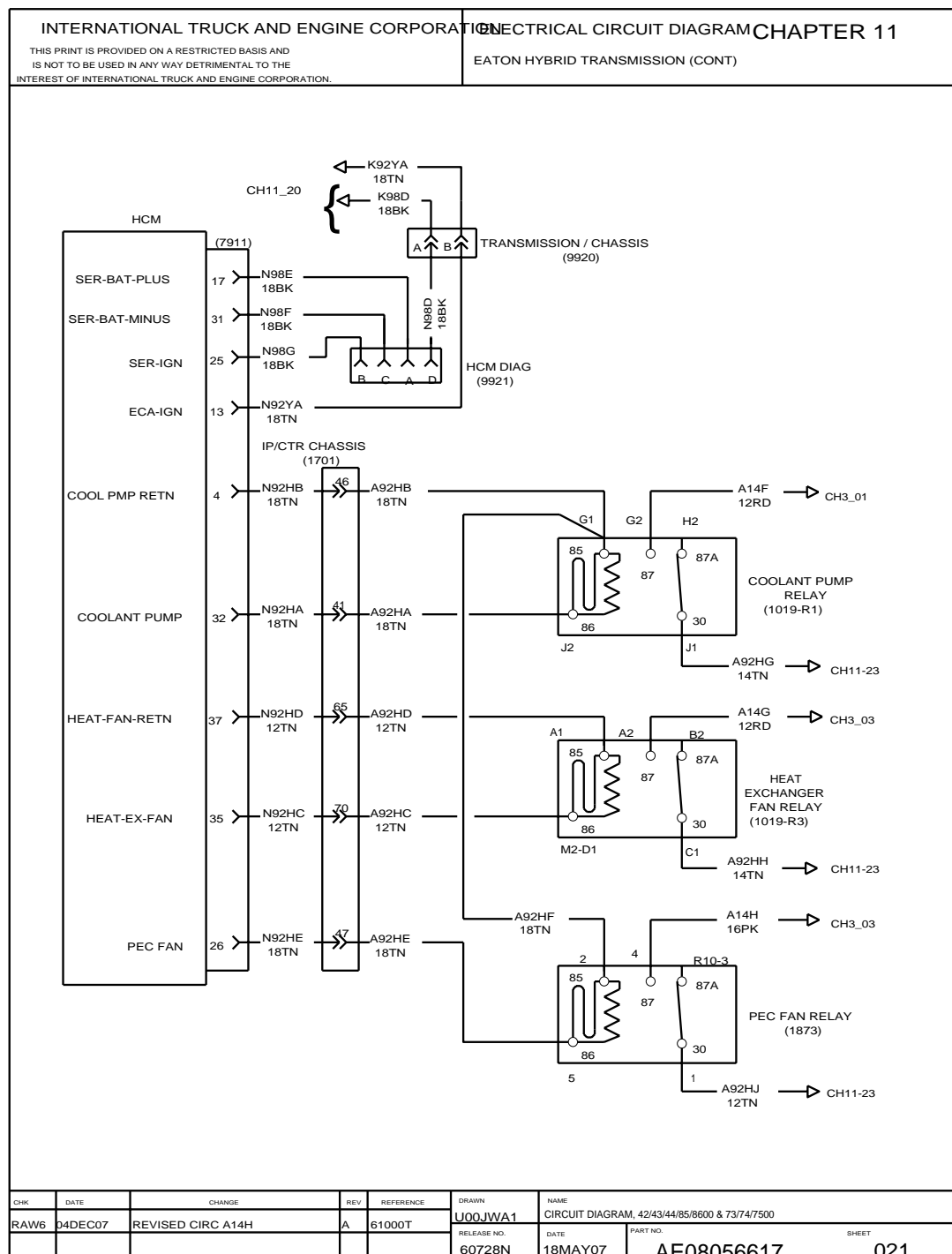


Figure 202 Eaton Hybrid Transmission

11.23. EATON HYBRID TRANSMISSION, P. 22

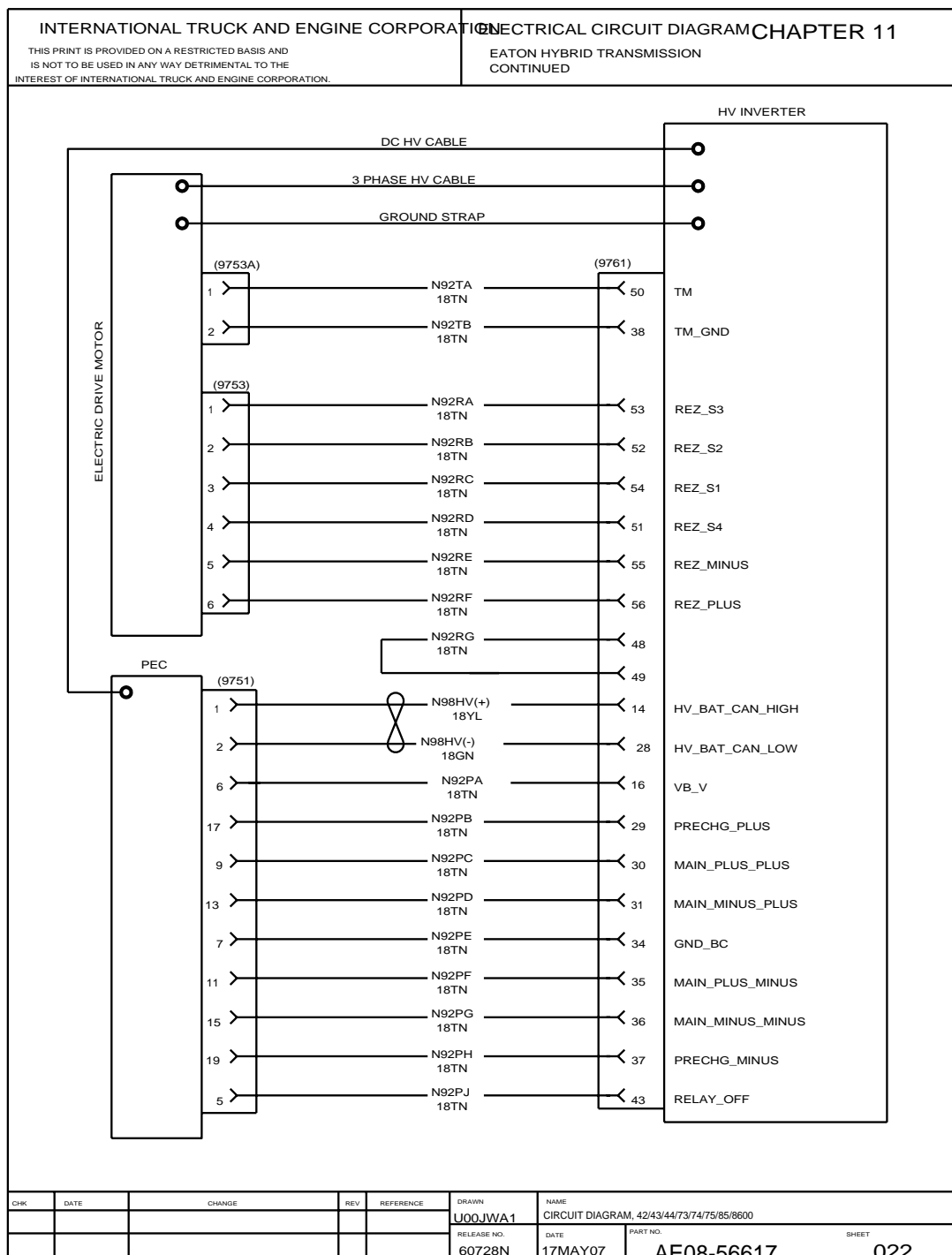


Figure 203 Eaton Hybrid Transmission

11.24. EATON HYBRID TRANSMISSION, P. 23

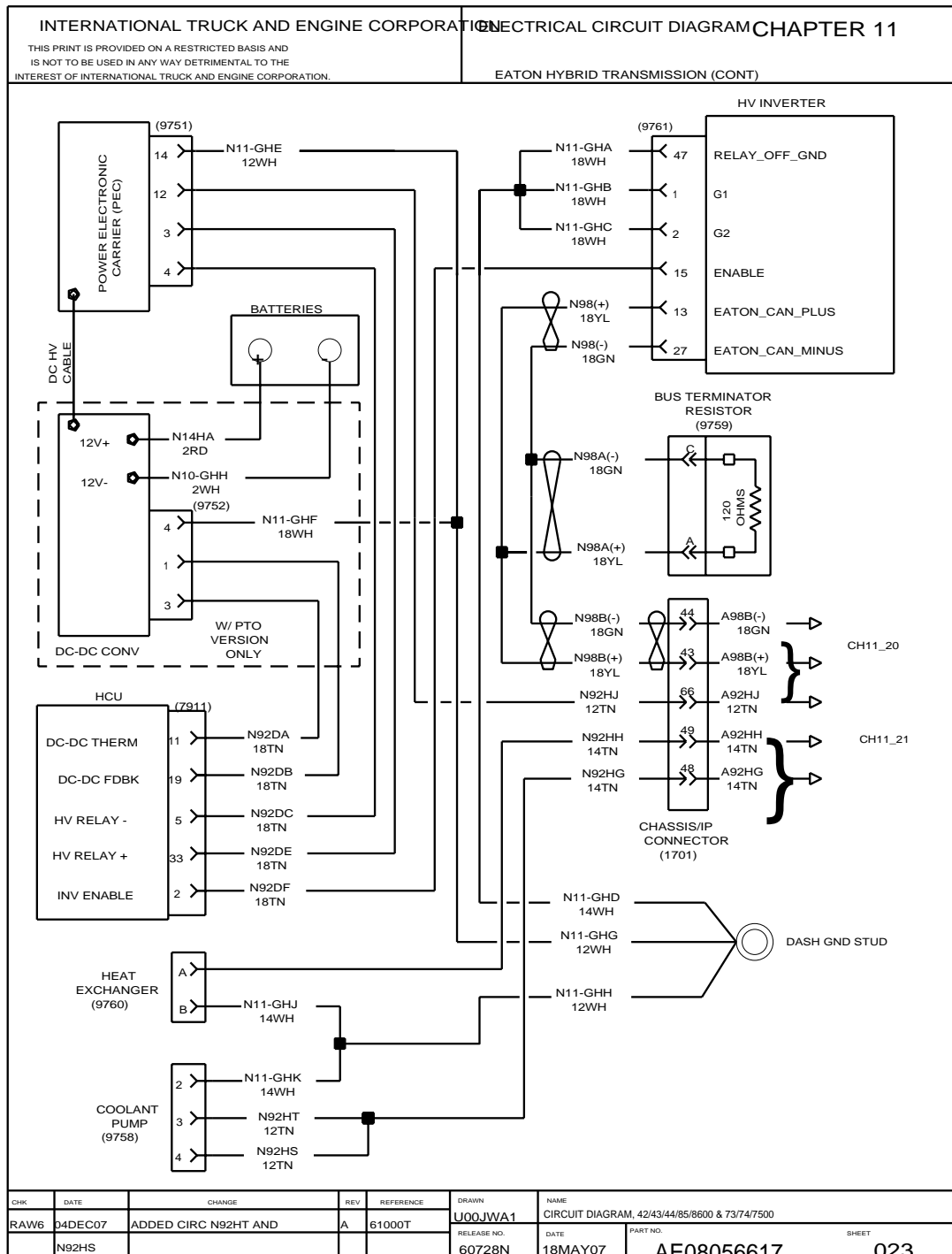


Figure 204 Eaton Hybrid Transmission

11.25. TRANSMISSION ALLISON MD (WTEC) WITH CAT ENGINE, P. 24

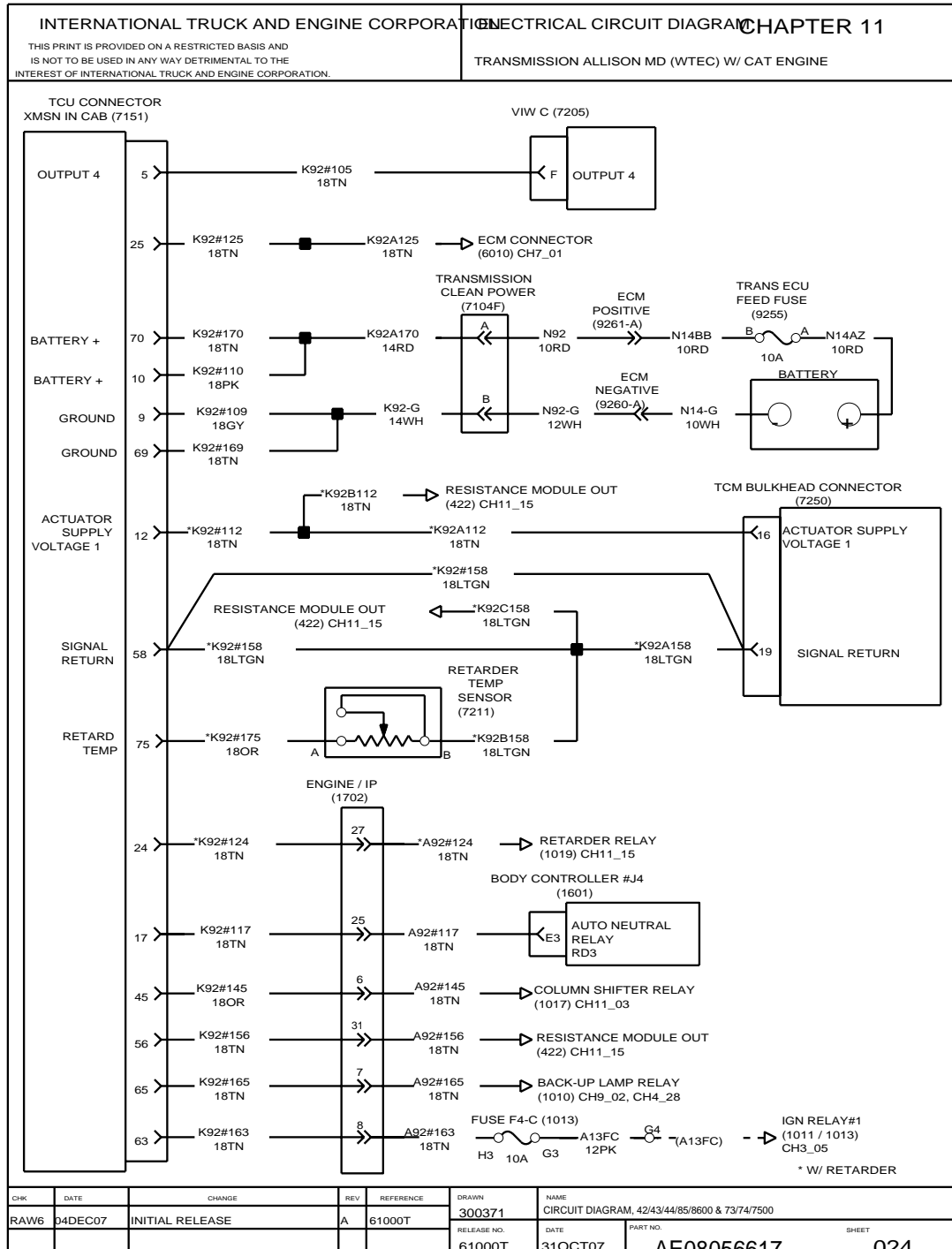


Figure 205 Transmission Allison MD (WTEC) with Cat Engine

11.26. FREEDOMLINE TRANSMISSION WITH CAT AND ISM ENGINE, P. 25

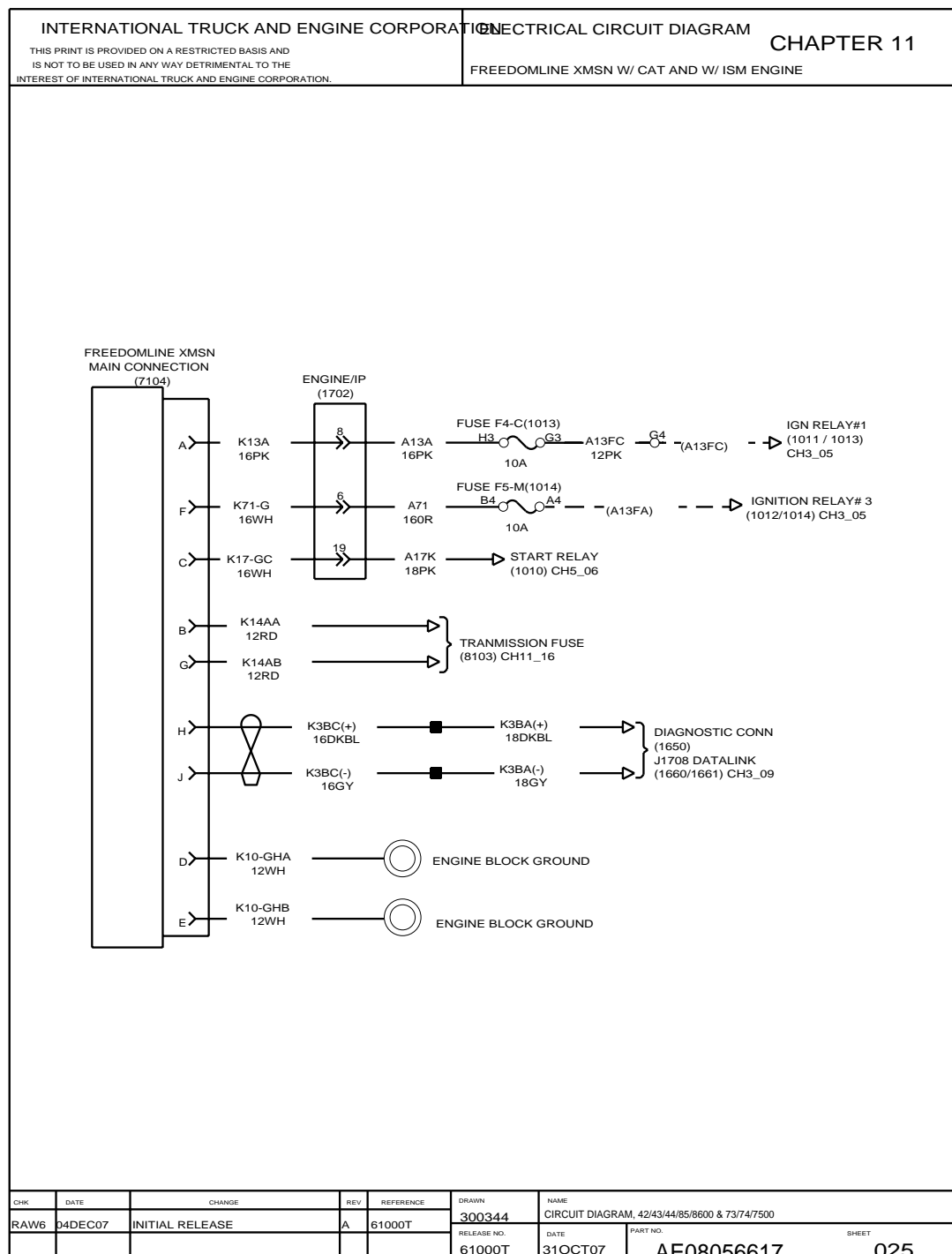


Figure 206 Freedomline Transmission with Cat and ISM Engine

12. AIR CONDITIONING (CHAPTER 12)

12.1. AIR CONDITIONING, P. 1

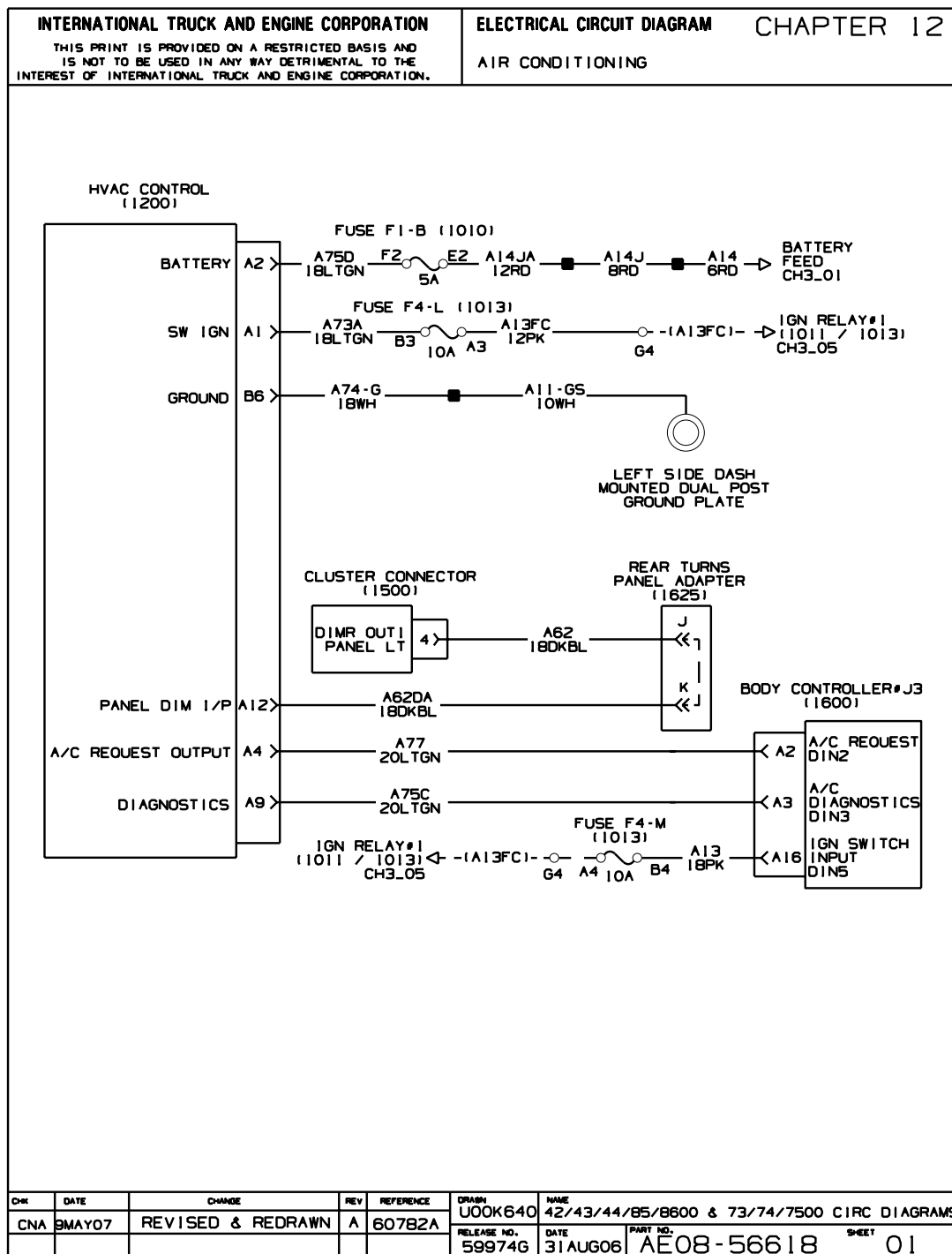


Figure 207 Air Conditioning

12.2. AIR CONDITIONING, P. 2

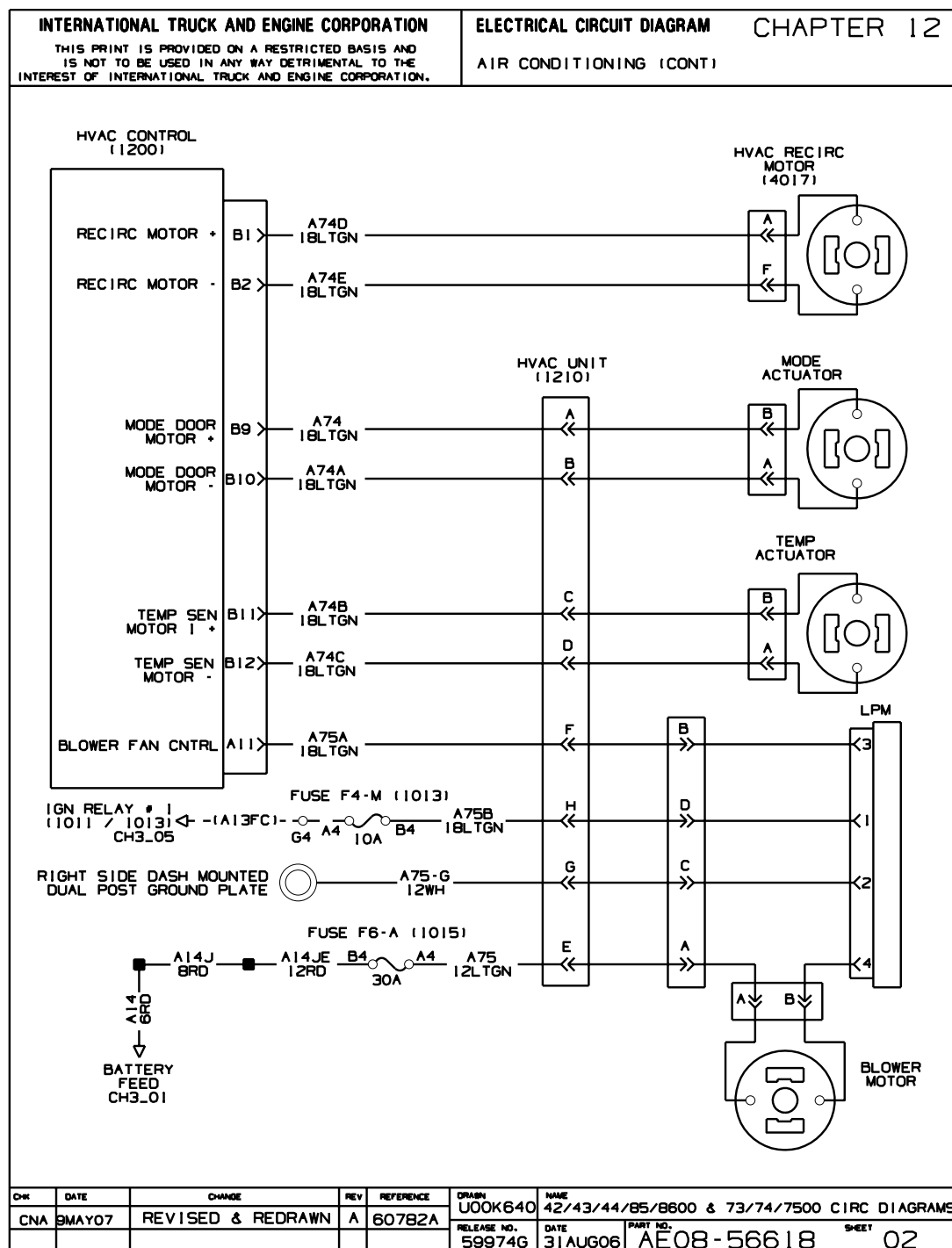


Figure 208 Air Conditioning (Cont.)

12.3. HVAC SYSTEM, P. 3

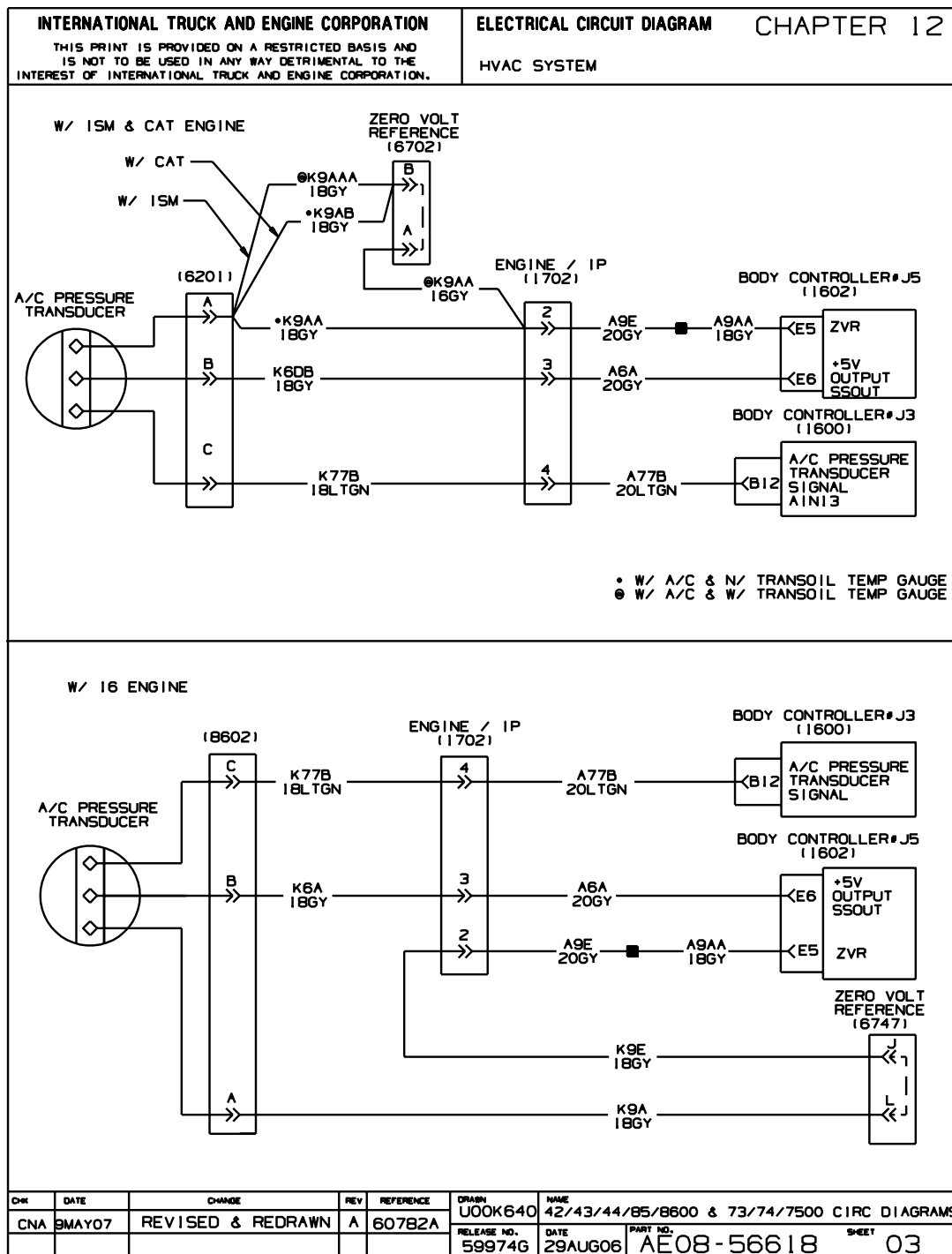


Figure 209 HVAC System

12.4. HVAC SYSTEM, P. 4

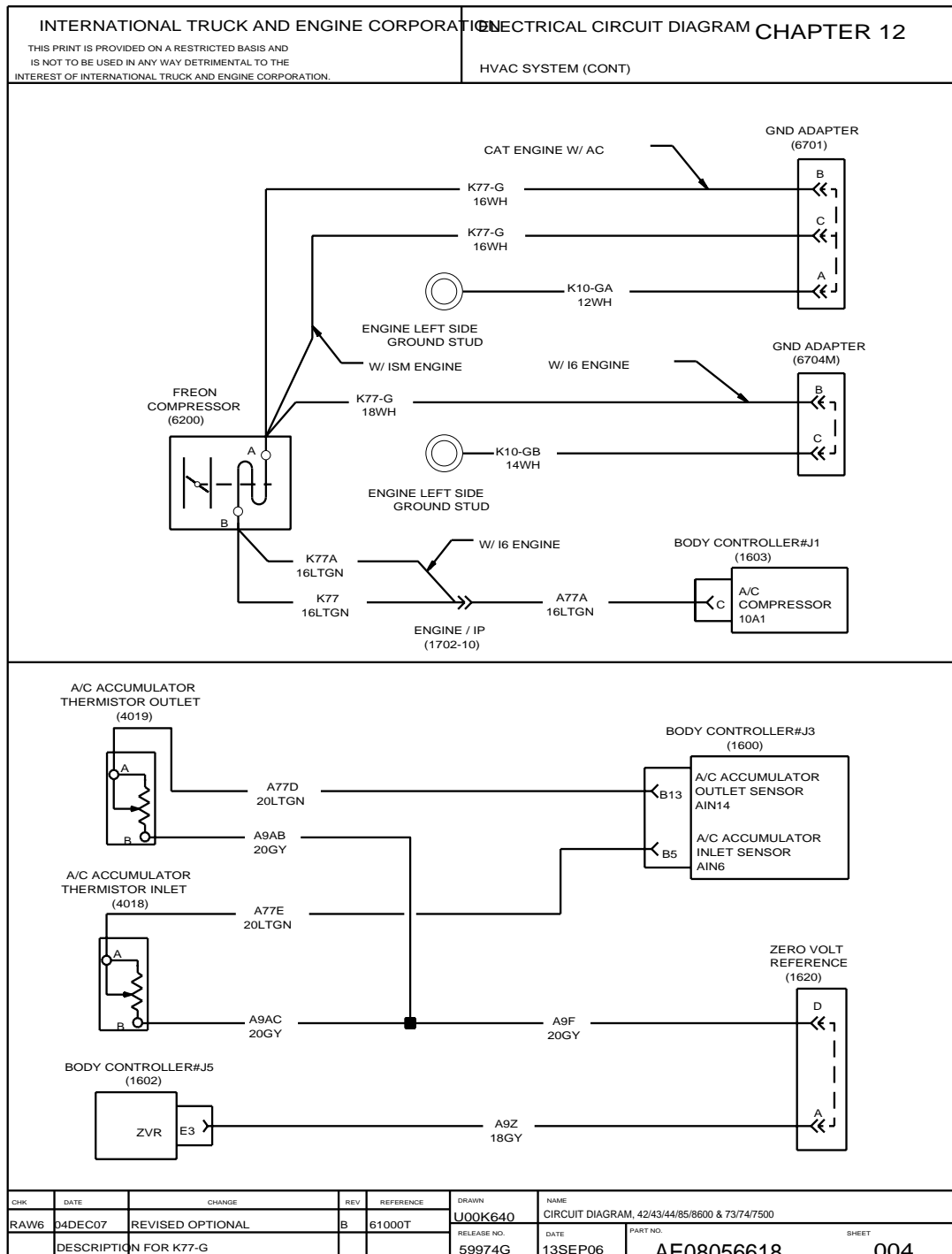


Figure 210 HVAC System (Cont.)

12.5. HVAC SYSTEM, P. 5

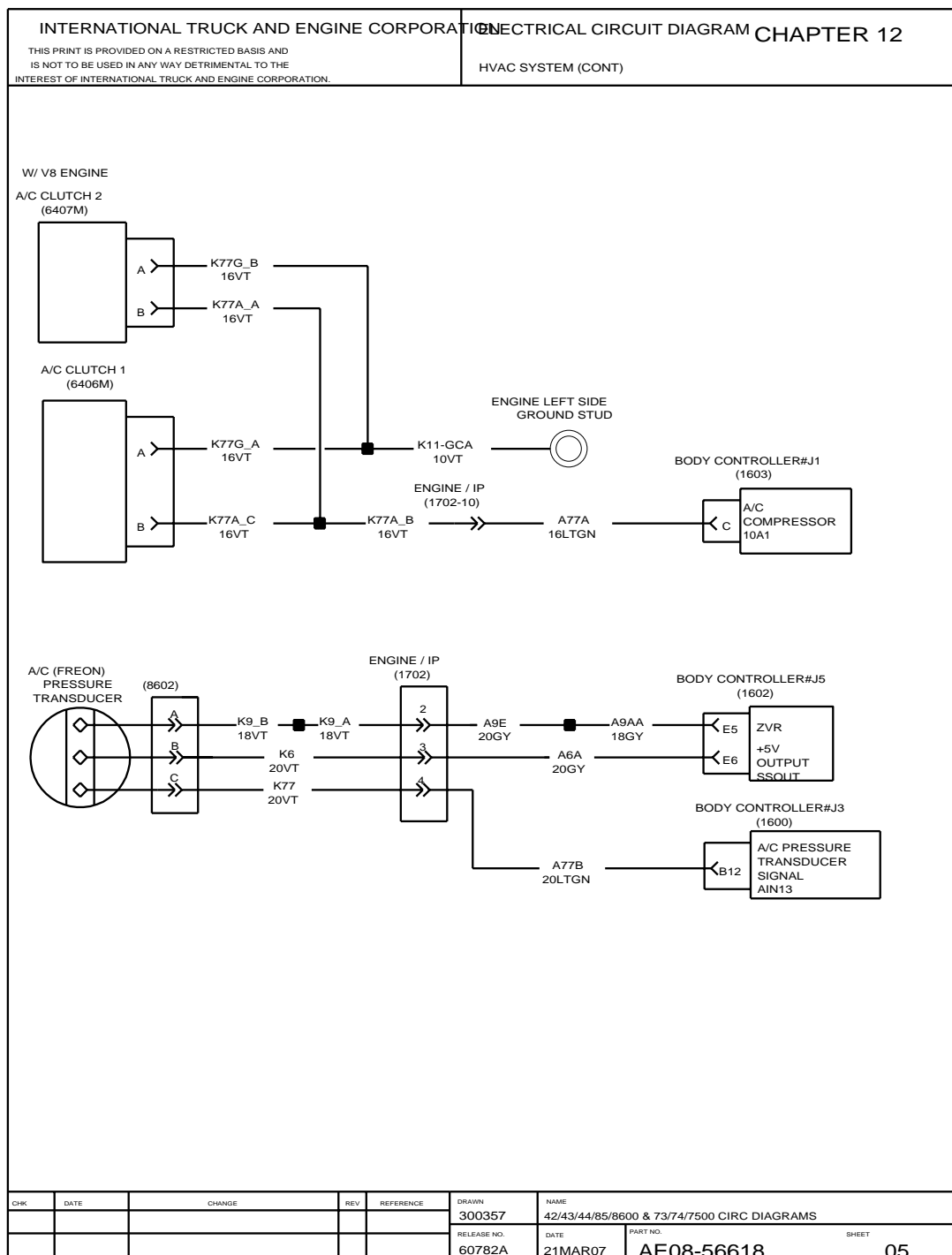


Figure 211 HVAC System (Cont.)

12.6. AUTOTHERM SYSTEM, P. 6

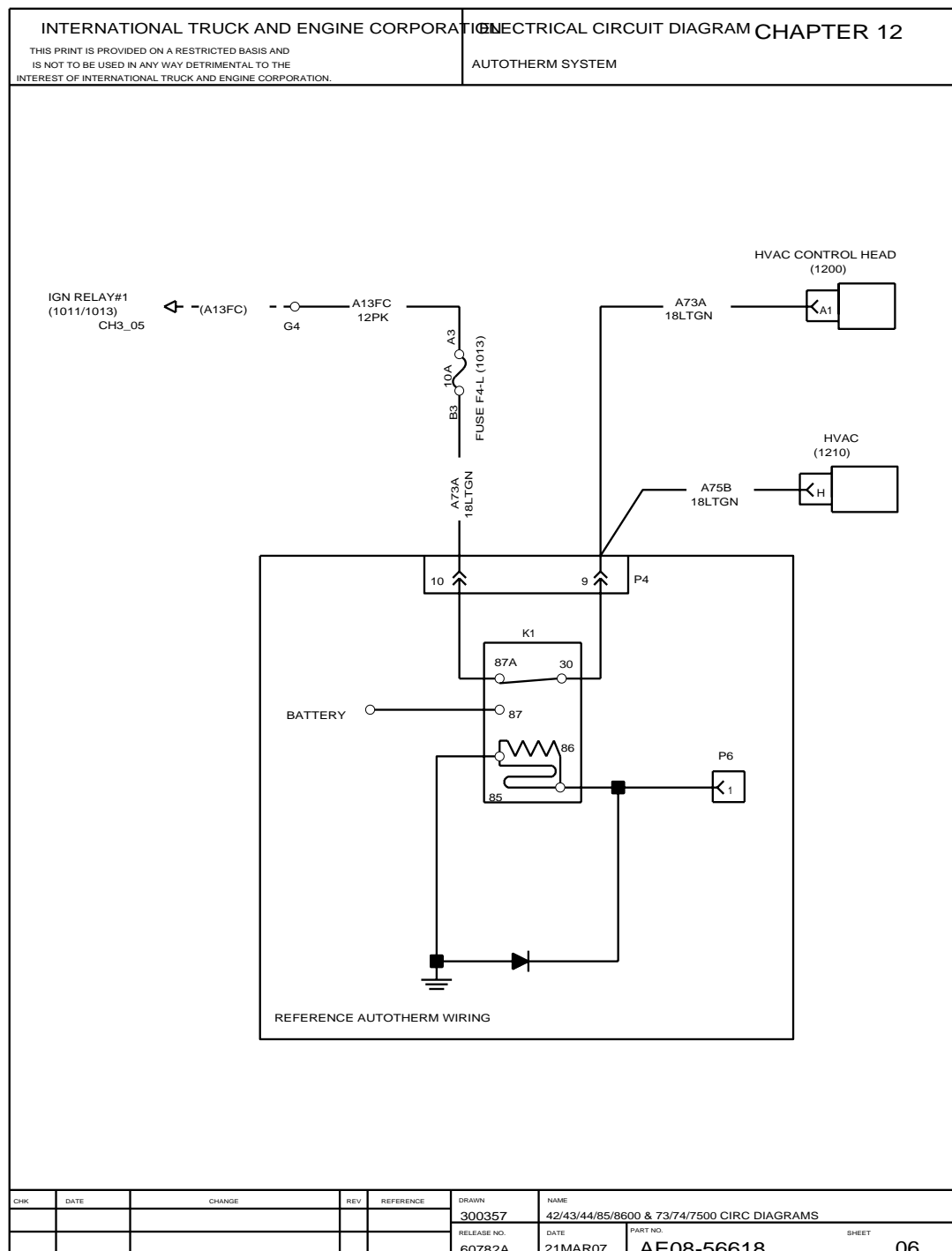


Figure 212 Autotherm System