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

ITERNATIONAL TRUCK AN	D ENGINE CORPORATION	ELECTRICAL CIRCUIT DIAGRAM	CLIADTED	
THIS PRINT IS PROVIDED ON IS NOT TO BE USED IN ANY REST OF INTERNATIONAL TRUCK	WAY DETRIMENTAL TO THE	IP / GAUGES	CHAPTER	
	INSTRUMENT	PANEL GAUGES		
	WARN		SENSOR	
GAUGE	LIGHT	SIGNAL PATH	LOCATION	
RPM (TACH) MPH/KPH (SPD)		DRIVE TRAIN J1939 / CLUSTER DRIVE TRAIN J1939 / CLUSTER	ENGINE TRANSMISSION	
FUEL		DRIVE TRAIN J1939 / CLUSTER	FUEL TANK	
VOLT		DRIVE TRAIN J1939 / CLUSTER	-	
AIR (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)		DRIVE TRAIN J1939 / CLUSTER	ENGINE	
ENG OIL (TEMP)		DRIVE TRAIN J1939 / CLUSTER	ENGINE	
TRANS (TEMP)	YES ENGINE CTRLR /	DRIVE TRAIN J1939 / CLUSTER DRIVE TRAIN J1939 / CLUSTER	ENGINE TRANSMISSION	
AIR APPLICATION	NO SYSTEM CTRLR /		FWD CHASSIS	
REAR AXLE TEMP	YES SYSTEM CTRLR /	DRIVE TRAIN J1939 / CLUSTER	AXLE	
NOTES: . WARNING	LIGHTS ARE PART OF TH	HE GAUGES AND LOCATED IN THE	GAUGE	

Figure 116 IP/Gauges

REVISED & REDRAWN

DATE

UOOK640 42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS

RELEASE NO. DATE PART NO. A E O S - 566 | 4

REV REFERENCE

A 60782A

8.2. WARNING LIGHT LIST, P. 2

ELECTRICAL CIRCUIT DIAGRAM CHAPTER			
WARNING LIGHTS LIST			
SENSOR LOCATIO			
39 / CLUSTER			
939 / CLUSTER FUEL FILTER			
939 / CLUSTER			
939 / CLUSTER			
939 / CLUSTER SWITCH			
939 / CLUSTER BRK RESERVOIR			
J1939 / CLUSTER			
39 / CLUSTER			
J1939 / CLUSTER			
939 / CLUSTER WASHER BOTTLE			
939 / CLUSTER TURN SIG SW			
939 / CLUSTER FUEL FILTER			
939 / CLUSTER FUEL FILTER 939 / CLUSTER SURGE TANK			
939 / CLUSTER SURGE TANK			
939 / CLUSTER SWITCH			
939 / CLUSTER SWITCH			
39 / CLUSTER			
939 / CLUSTER			
939 / CLUSTER			
939 / CLUSTER			
939 / CLUSTER			
939 / CLUSTER			
39 / CLUSTER TRANSMISSION			
939 / CLUSTER			
SWITCH			
939 / CLUSTER			
SNOW VALVE			
FWD RR AXLE			
RR RR AXLE			
TRANSFER CASE			

CHK	DATE	CHANGE	REV	REFERENCE	DRAM	NAE	2.74.77500 0100 01400445
CNA	9MAY07	REVISED & REDRAWN	A	607824	RELEASE NO.	12/43/44/85/8600 & /	3/74/7500 CIRC DIAGRAMS
					59974G	~~~ . ~~ ~~ ~~ ~~	56614 02

Figure 117 Warning Light List

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

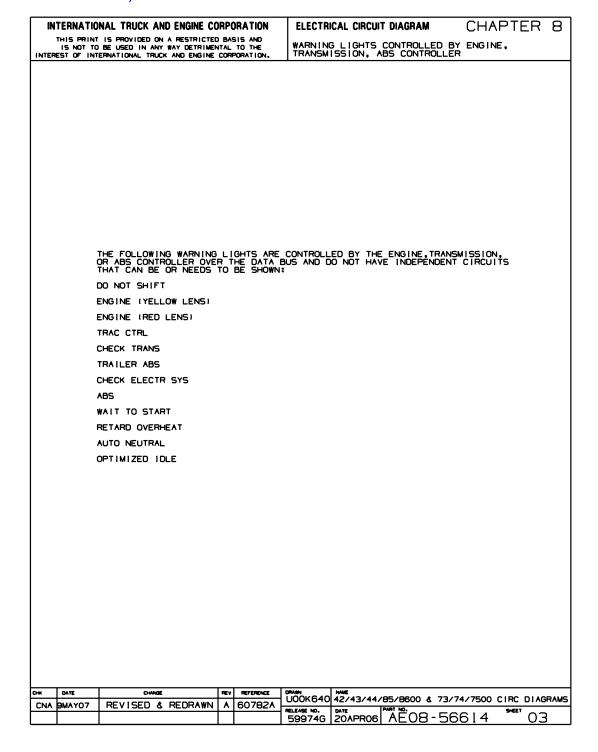


Figure 118 Warning Lights Controlled by Engine, Transmission, ABS Controller

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

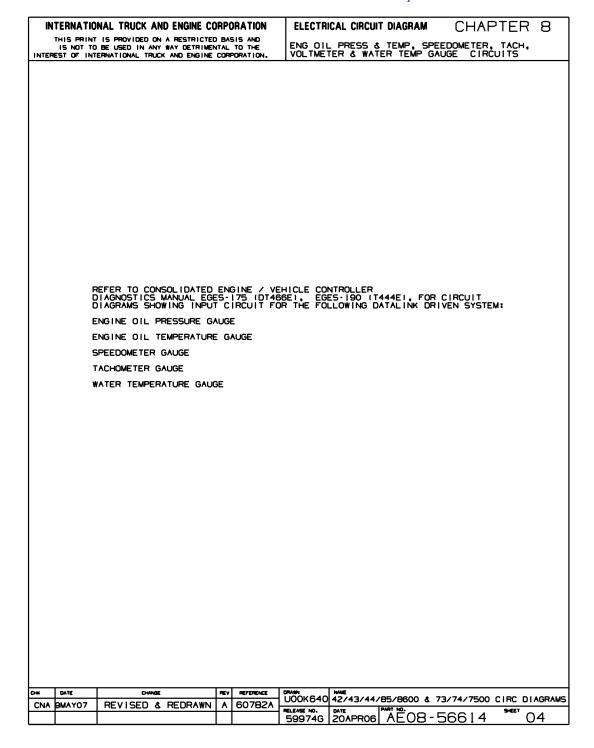


Figure 119 Engine Oil Pressure and Temp, Speedometer, Tachometer, Voltmeter and Water Temp Gauge Circuits

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

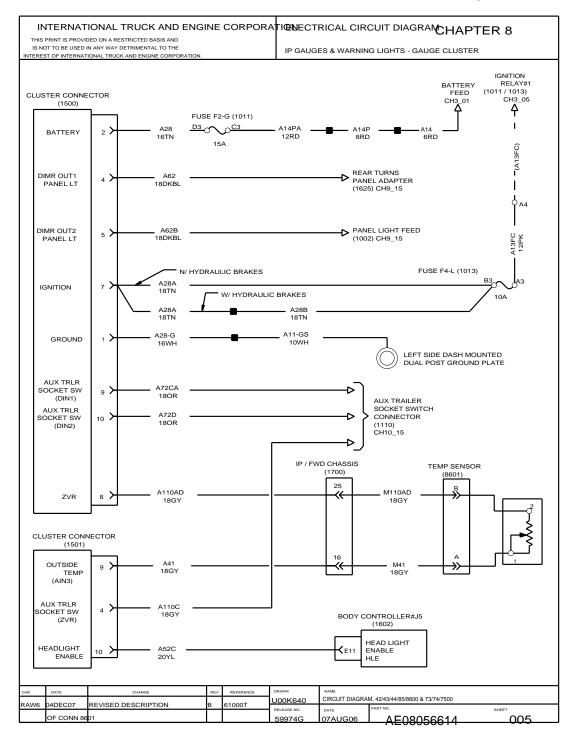


Figure 120 IP/Gauges and Warning Lights — Gauge Cluster

8.6. AIR PRESSURE INPUT CIRCUIT, P. 6

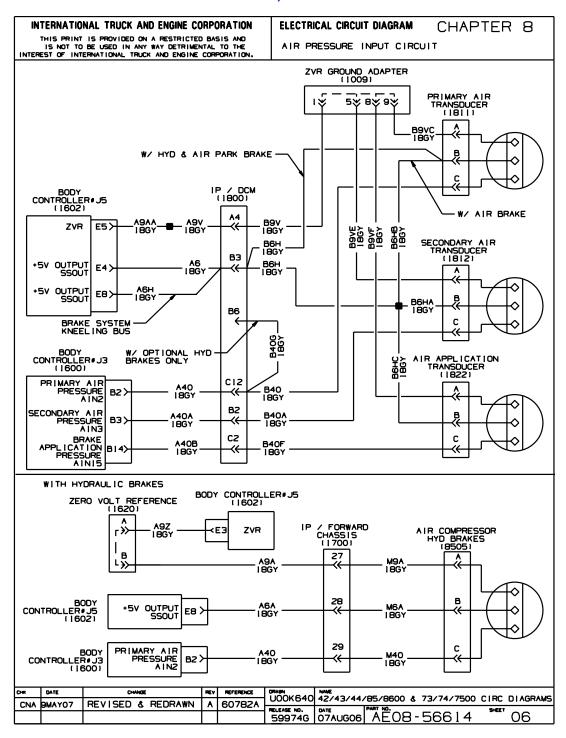


Figure 121 Air Pressure Input Circuit

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

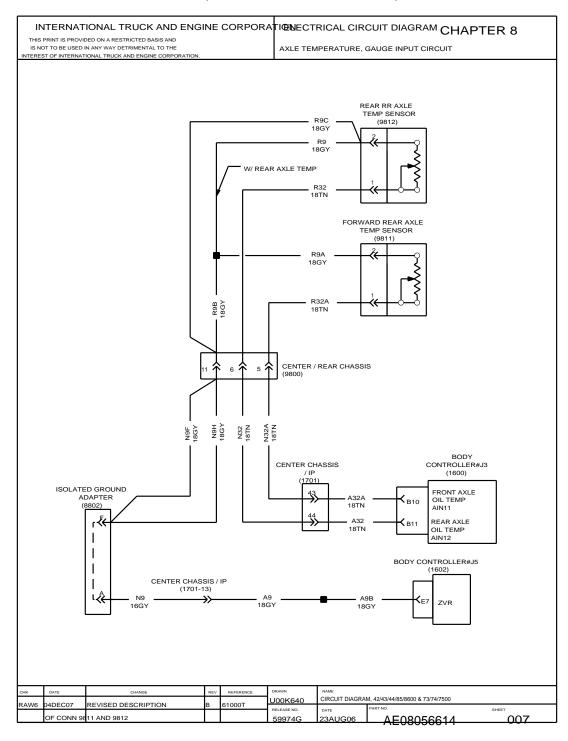


Figure 122 Axle Temperature, Gauge Input Circuit

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

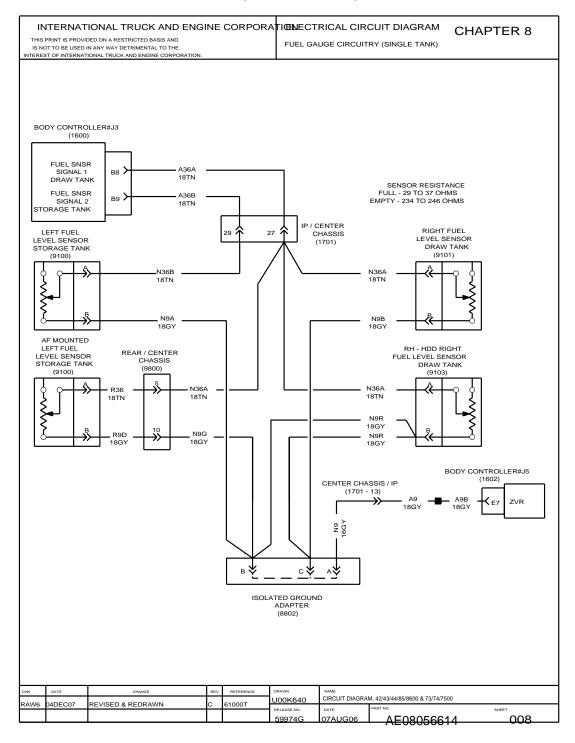


Figure 123 Fuel Gauge Circuitry (Single Tank)

8.9. DIFFERENTIAL LOCK WARNING LAMPS, P. 9

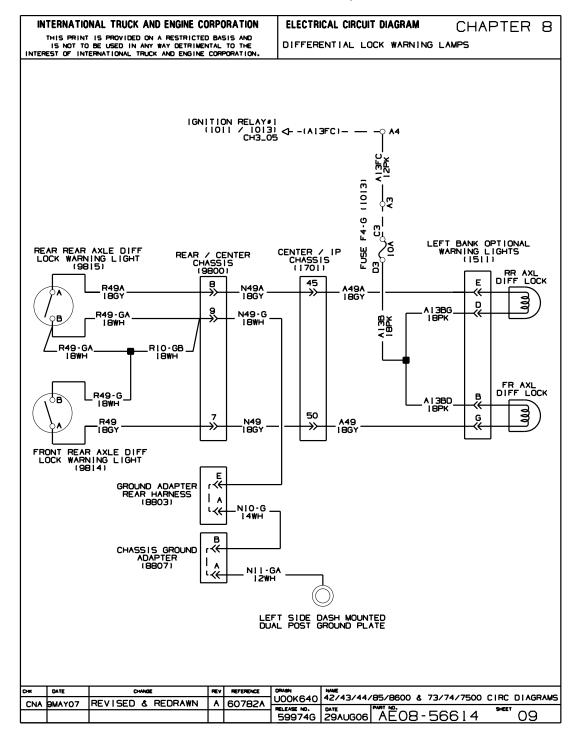


Figure 124 Differential Lock Warning Lamps

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

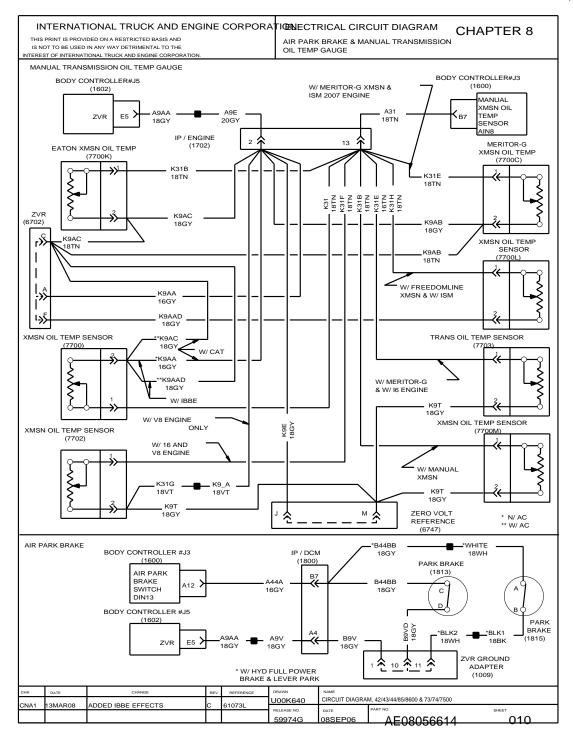


Figure 125 Air Park Brake and Manual Transmission Oil Temp Gauge

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

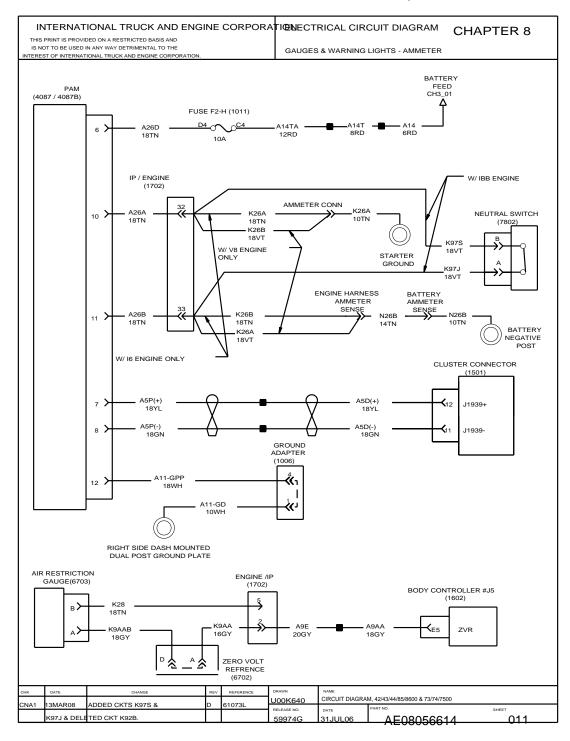


Figure 126 Gauges and Warning Lights — Ammeter

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

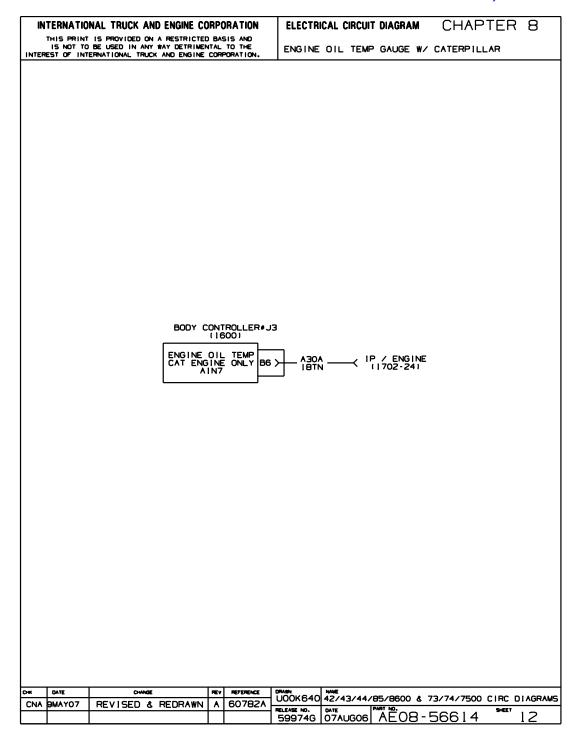


Figure 127 Engine Oil Temperature Gauge With Caterpillar

8.13. FRONT AXLE ENGAGEMENT LAMP, P. 13

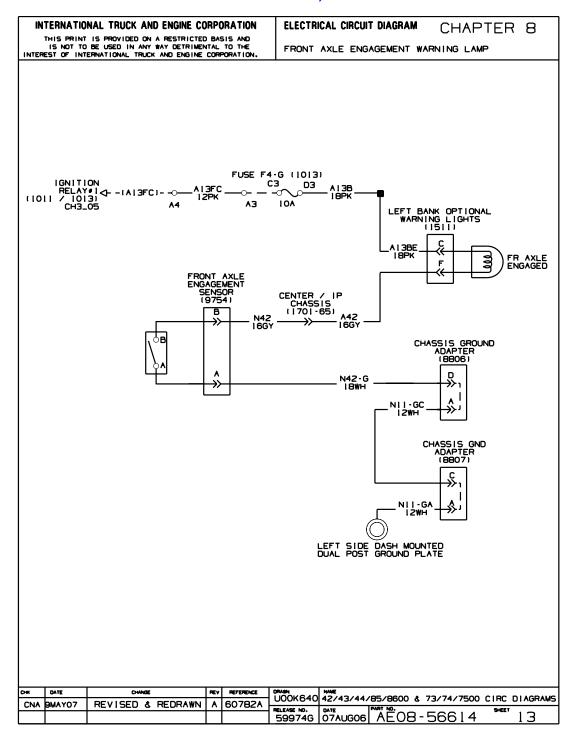


Figure 128 Front Axle Engagement Lamp

8.14. WARNING LIGHTS — OPTIONAL, P. 14

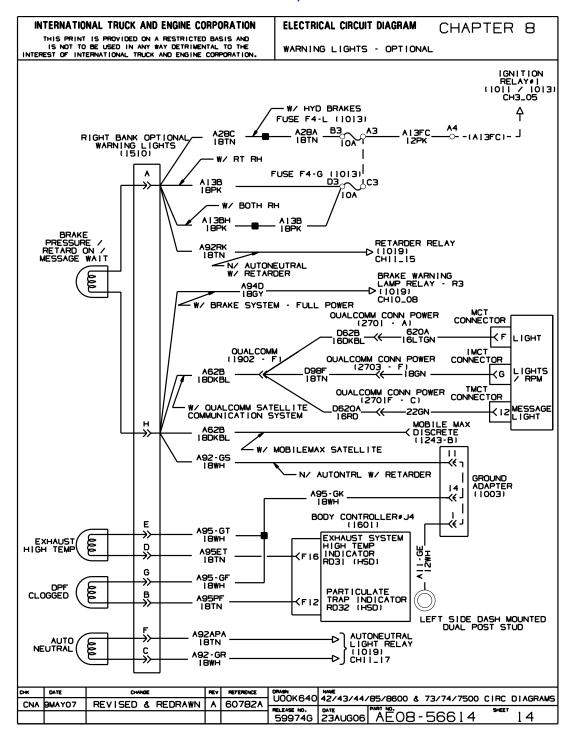


Figure 129 Warning Lights — Optional

8.15. WARNING LIGHTS — OPTIONAL, P. 15

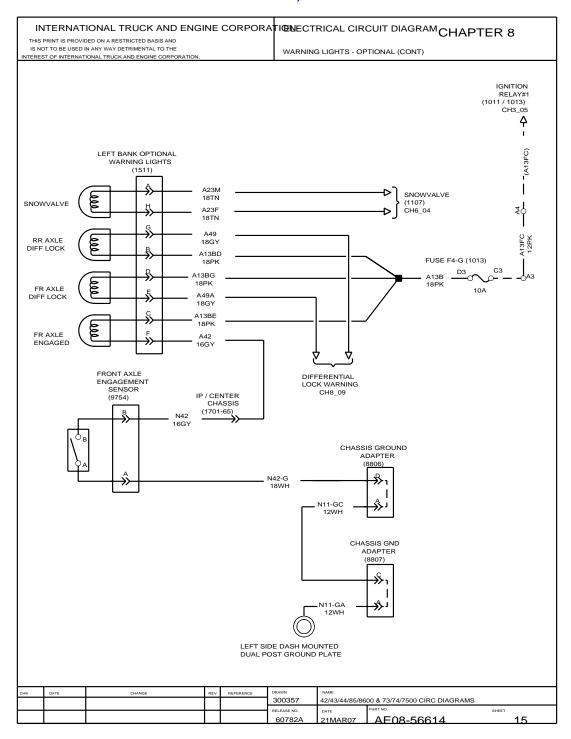


Figure 130 Warning Lights — Optional (Cont.)

8.16. LOAD MONITORING, P. 16

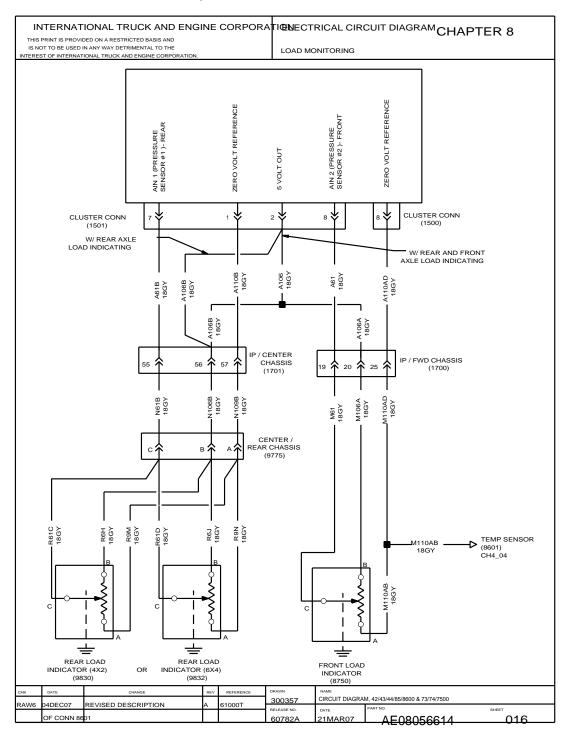


Figure 131 Load Monitoring

9. LIGHTS (CHAPTER 9)

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

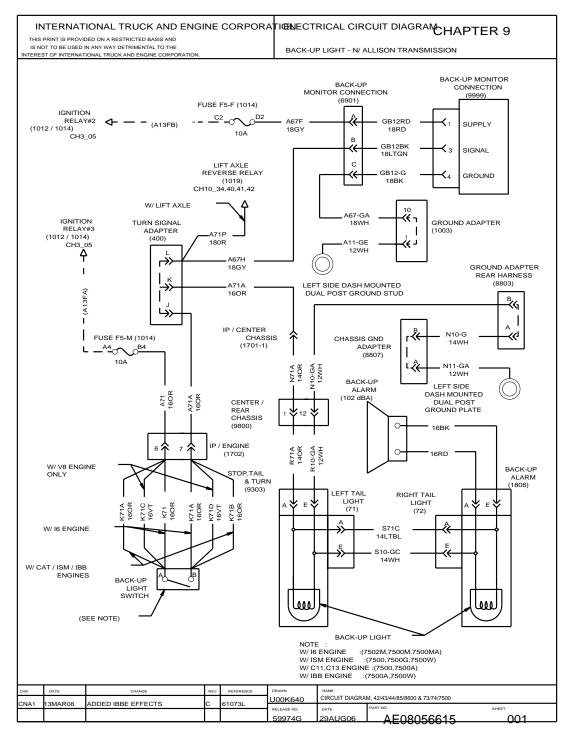


Figure 132 BackUp Lights N/ Allison Transmission

9.2. BACKUP LIGHTS W/ ALLISON TRANSMISSION, P. 2

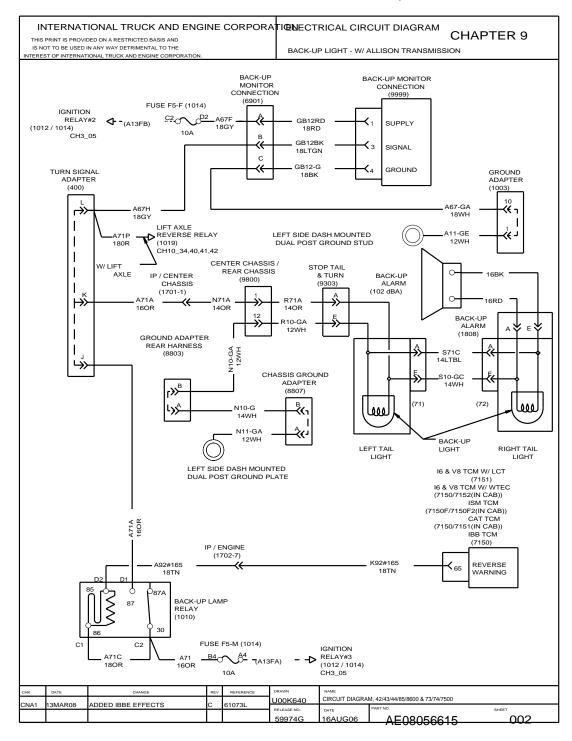


Figure 133 BackUp Lights W/ Allison Transmission

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

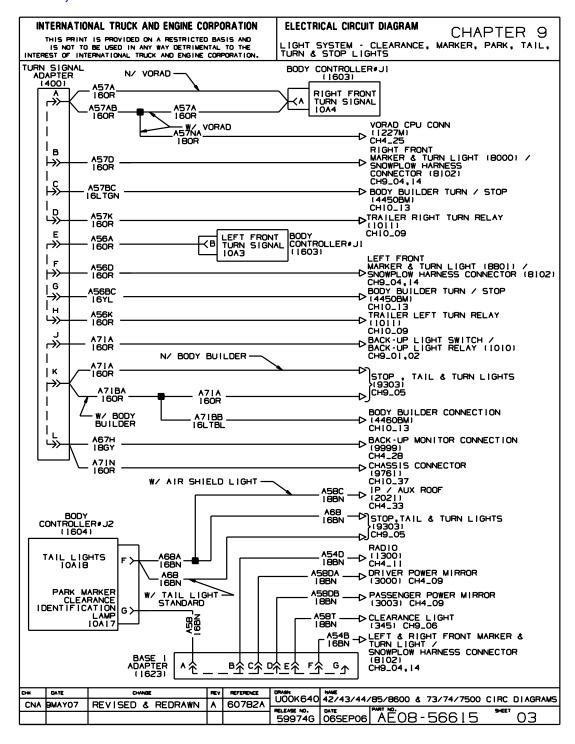


Figure 134 Light Systems — Clearance, Marker, Park, Tail, Turn and Stop Lights

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

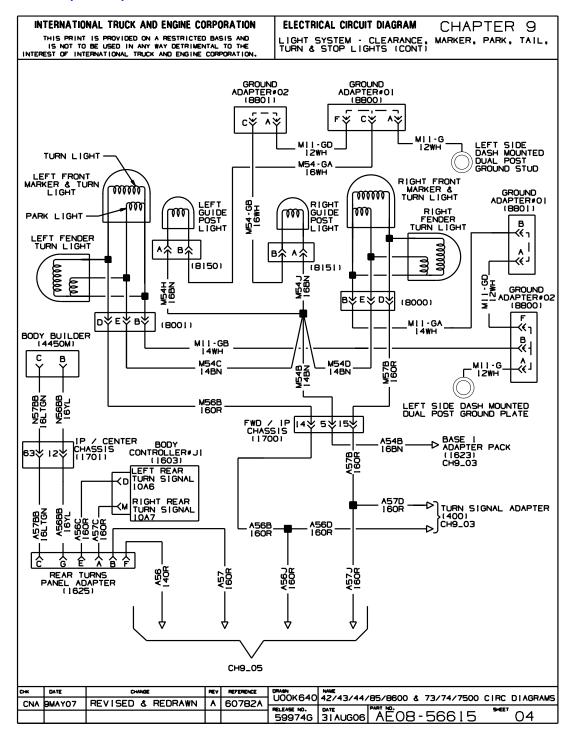


Figure 135 Light Systems — Clearance, Marker, Park, Tail, Turn and Stop Lights (Cont.)

9.5. LIGHT SYSTEMS — CLEARANCE, MARKER, PARK, TAIL, TURN AND STOP LIGHTS (CONT.), P. 5

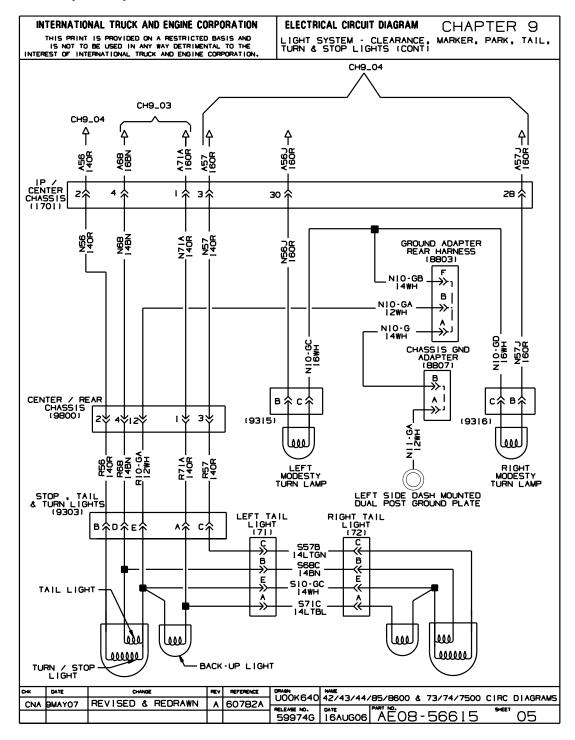


Figure 136 Light Systems — Clearance, Marker, Park, Tail, Turn and Stop Lights (Cont.)

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

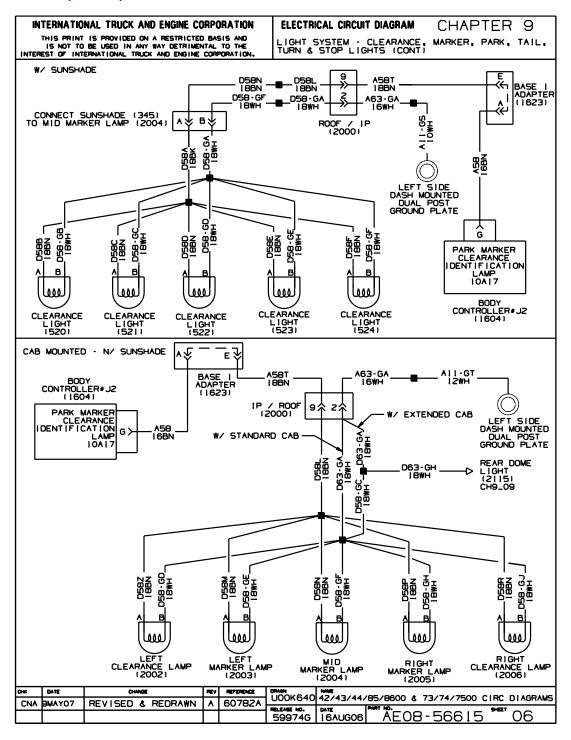


Figure 137 Light Systems — Clearance, Marker, Park, Tail, Turn and Stop Lights (Cont.)

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

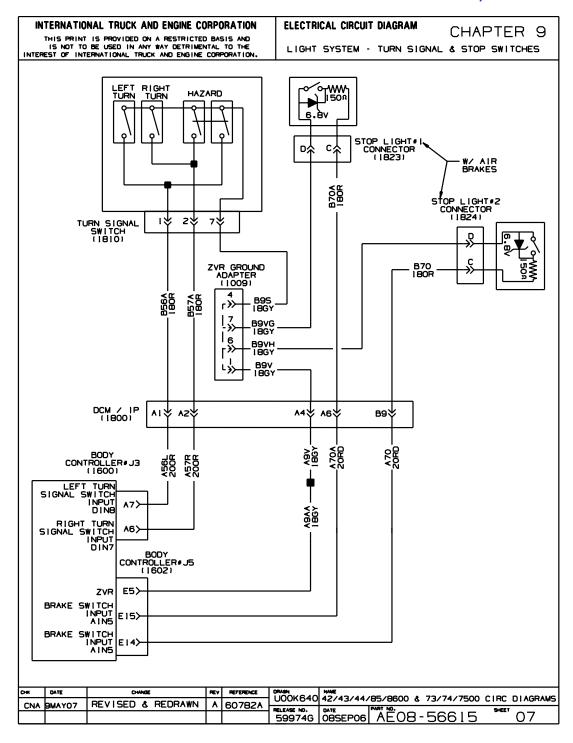


Figure 138 Light Systems — Turn Signal and Stop Switches

9.8. DOME LIGHT, MAP LIGHT, P. 8

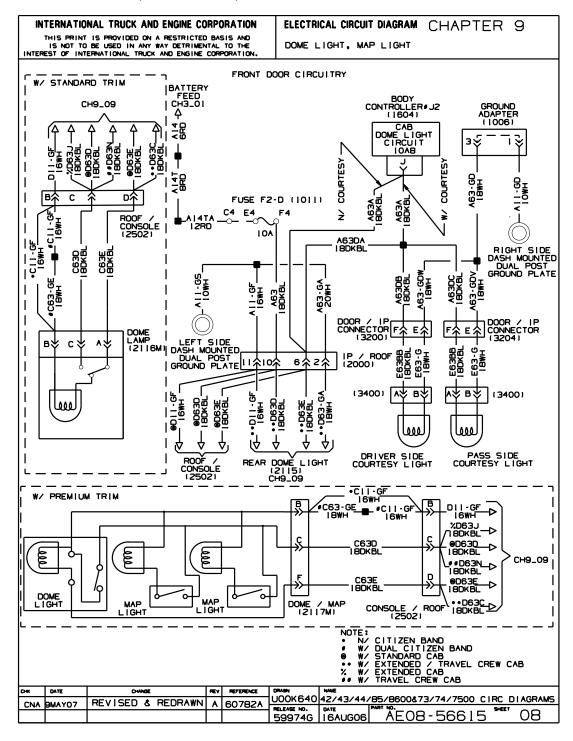


Figure 139 Dome Light, Map Light

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

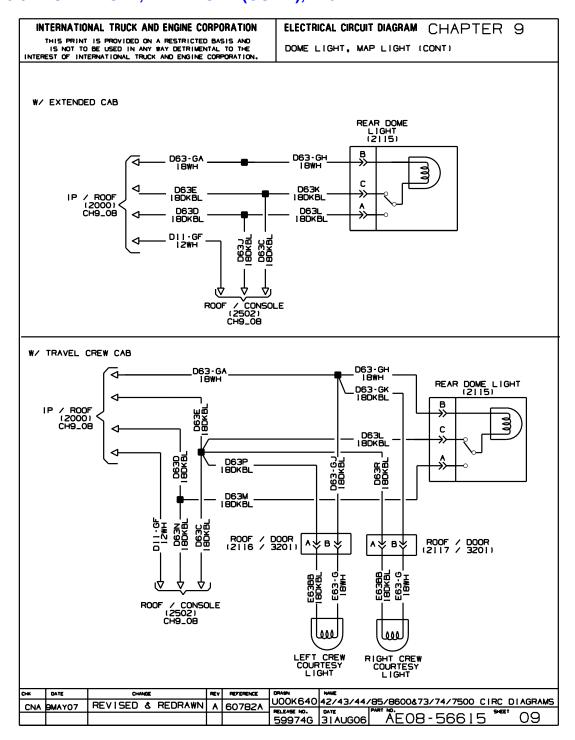


Figure 140 Dome Light, Map Light (Cont.)

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

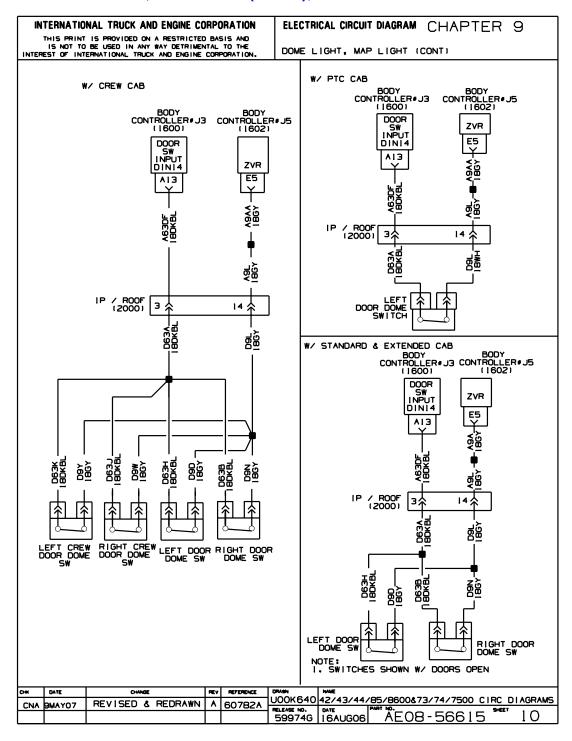


Figure 141 Dome Light, Map Light (Cont.)

9.11. FOG LIGHT AND WORK LIGHT, P. 11

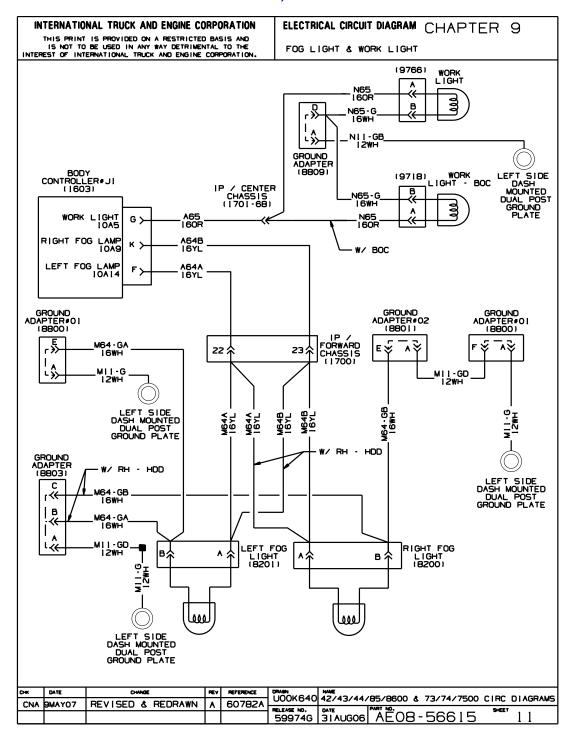


Figure 142 Fog Light and Work Light

9.12. HEADLIGHTS, P. 12

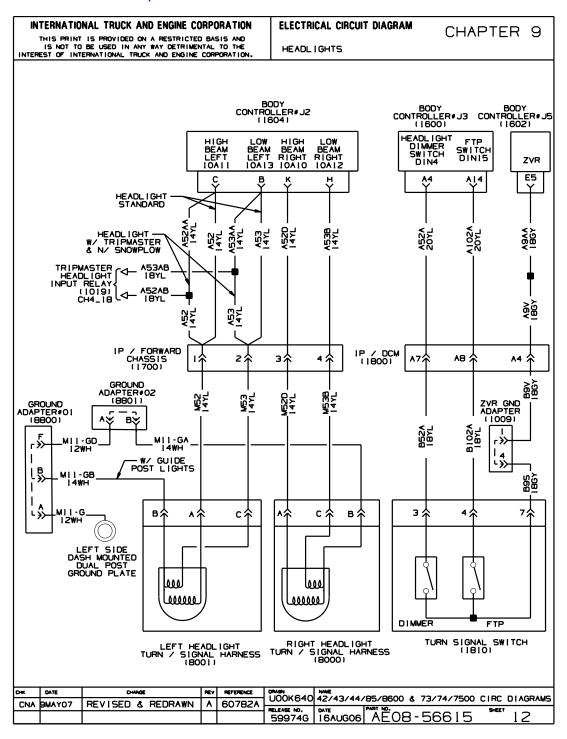


Figure 143 Headlights

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

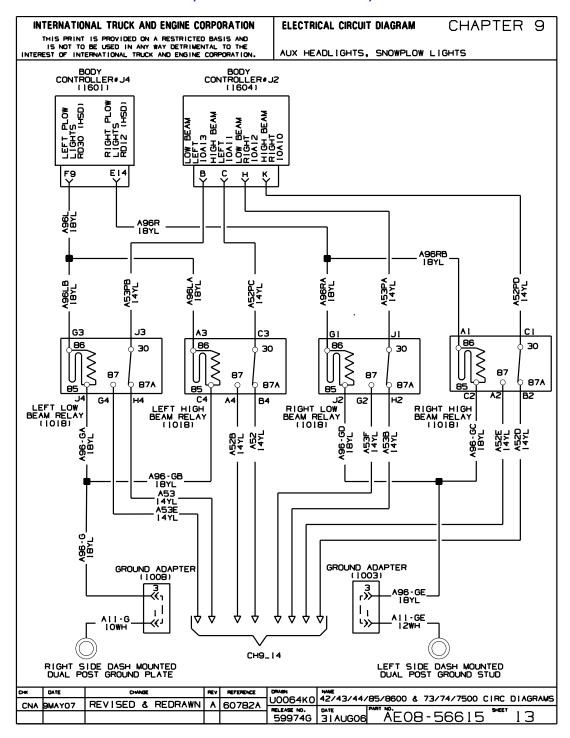


Figure 144 Aux. Headlights, Snow Plow Lights

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

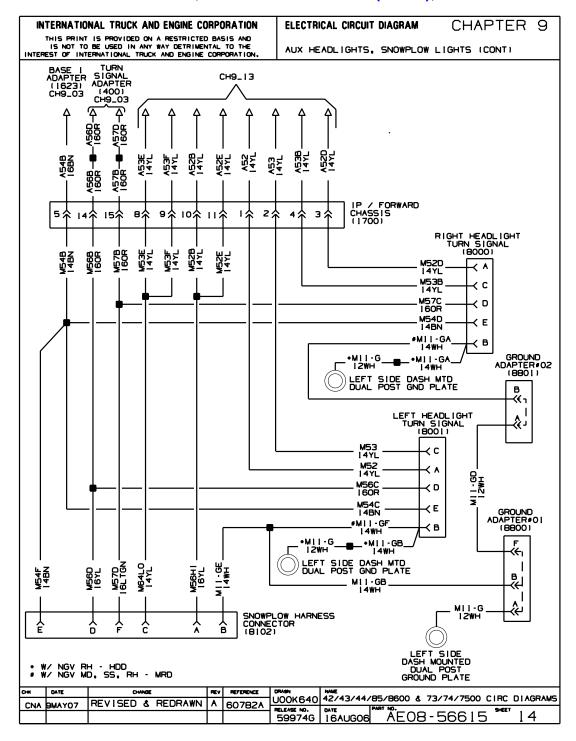


Figure 145 Aux. Headlights, Snow Plow Lights (Cont)

9.15. PANEL LIGHTS, P. 15

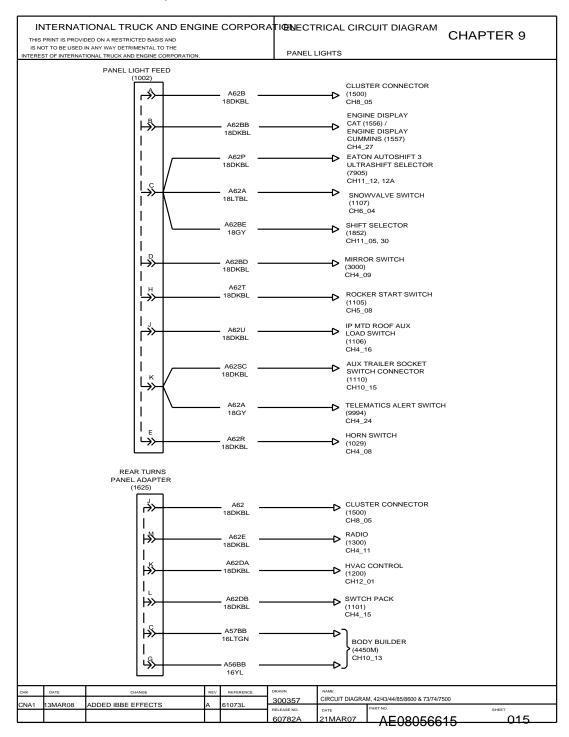


Figure 146 Panel Lights

10. CHASSIS ACCESSORIES (CHAPTER 10)

10.1. ABS — BENDIX AIR, P. 1

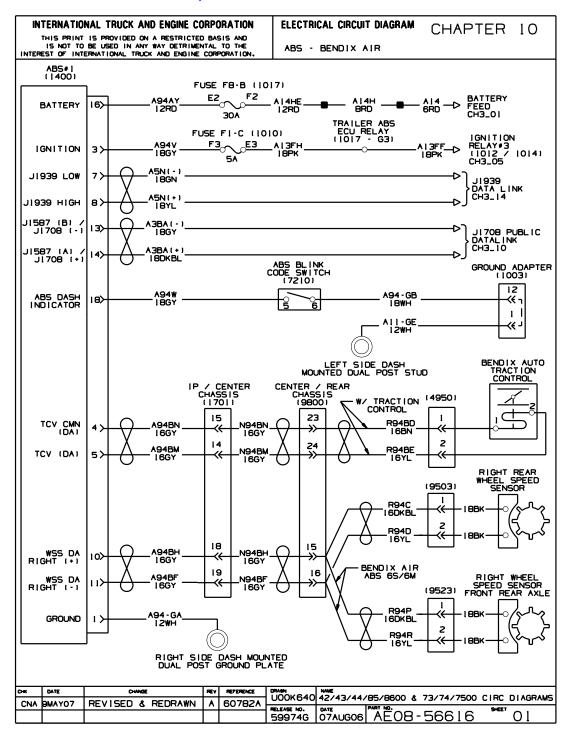


Figure 147 ABS — Bendix Air

10.2. ABS — BENDIX AIR, P. 2

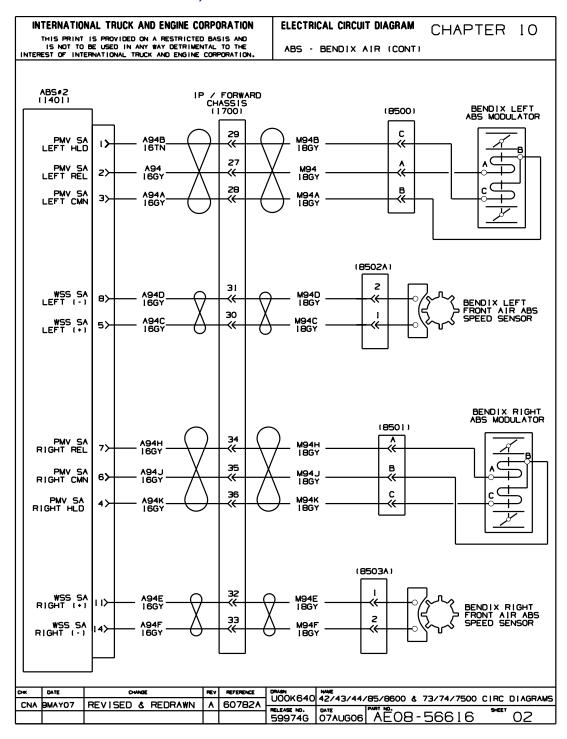


Figure 148 ABS — Bendix Air (Cont.)

10.3. ABS — BENDIX AIR, P. 3

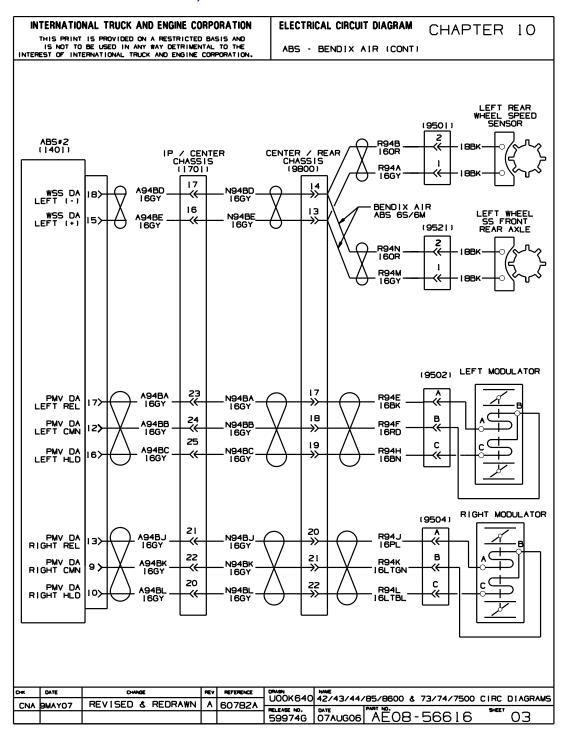


Figure 149 ABS — Bendix Air (Cont.)

10.4. ABS — WABCO AIR, P. 4

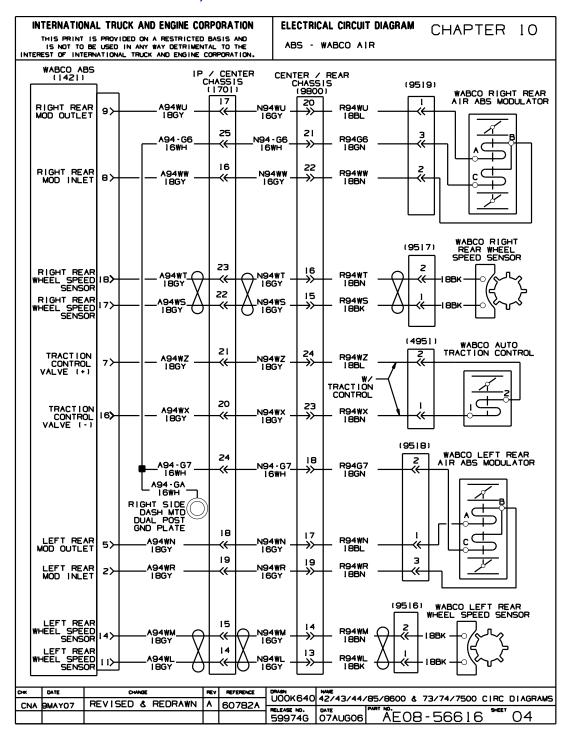


Figure 150 ABS — Wabco Air

10.5. ABS — WABCO AIR, P. 5

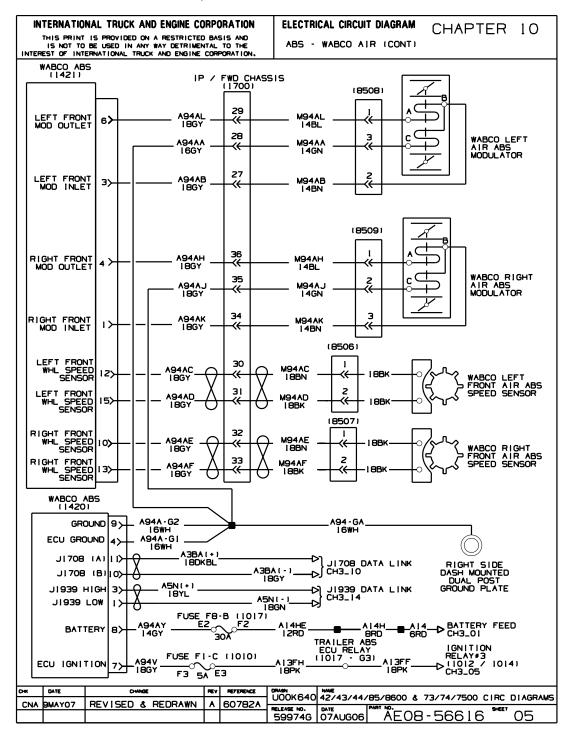


Figure 151 ABS — Wabco Air (Cont.)

10.6. WABCO FULL POWER BRAKES, P. 6

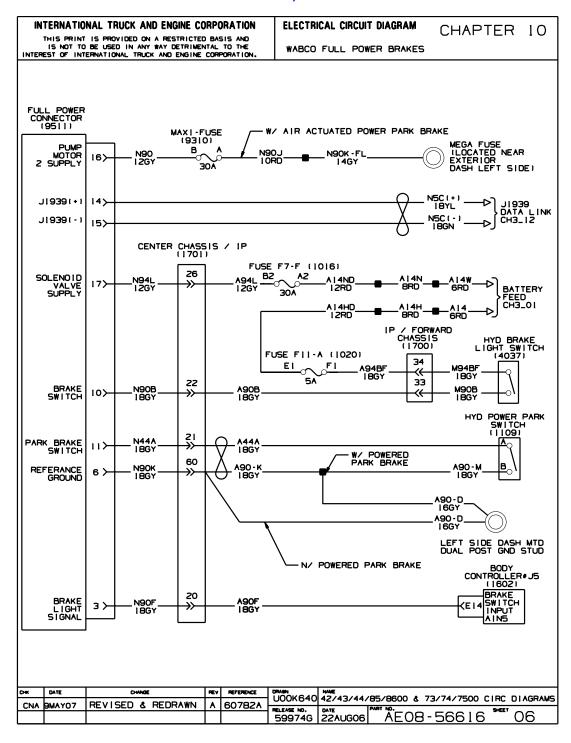


Figure 152 Wabco Full Power Brakes

10.7. WABCO FULL POWER BRAKES, P. 7

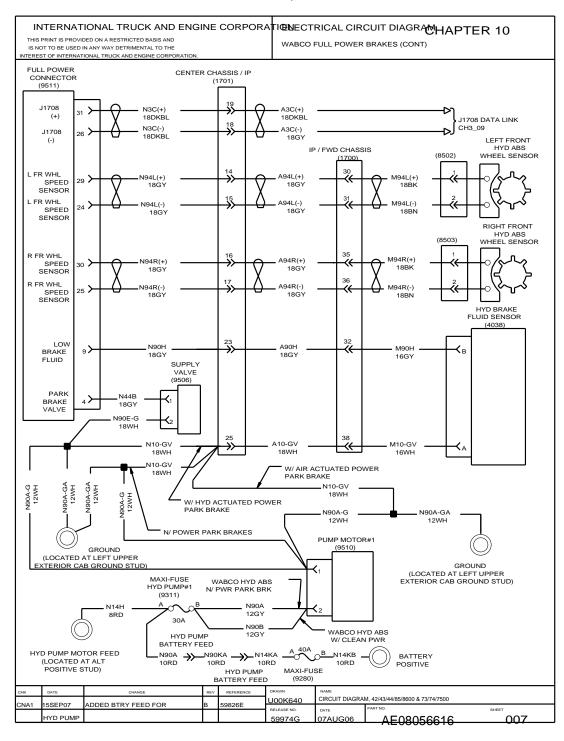


Figure 153 Wabco Full Power Brakes

10.8. WABCO FULL POWER BRAKES, P. 8

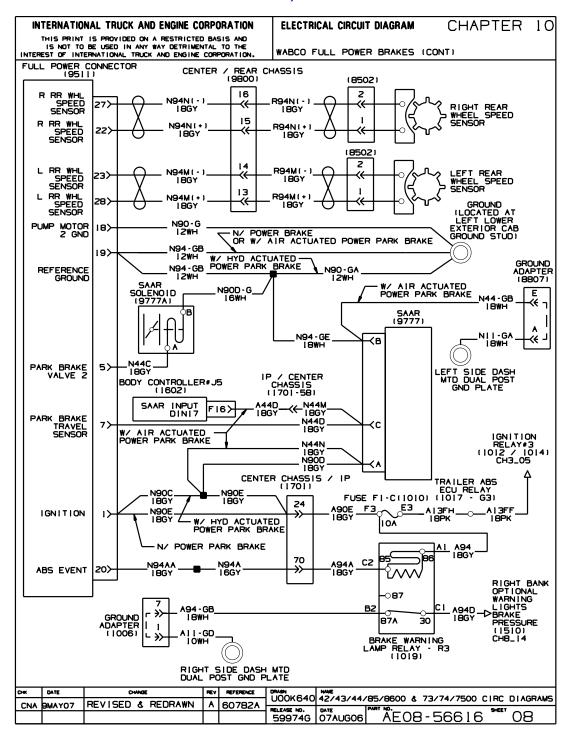


Figure 154 Wabco Full Power Brakes (Cont.)

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

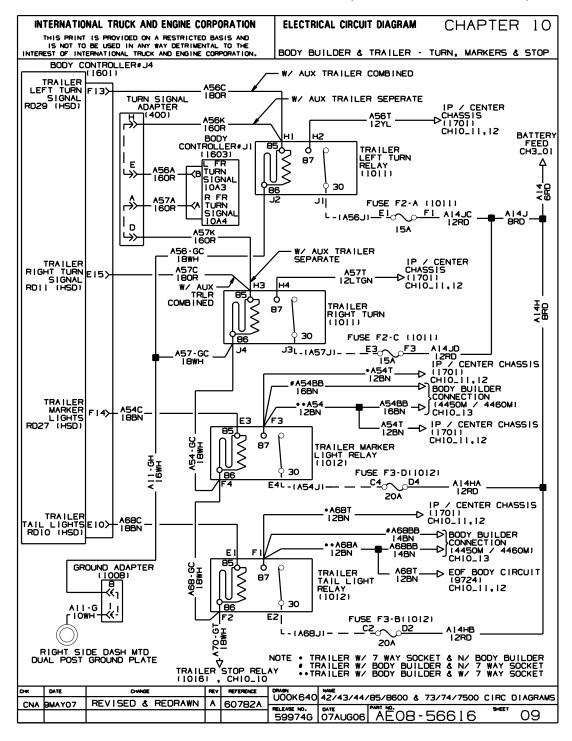


Figure 155 Body Builder and Trailer — Turn, Markers and Stop

10.10. BODY BUILDER AND TRAILER — TURN, MARKERS AND STOP, P. 10

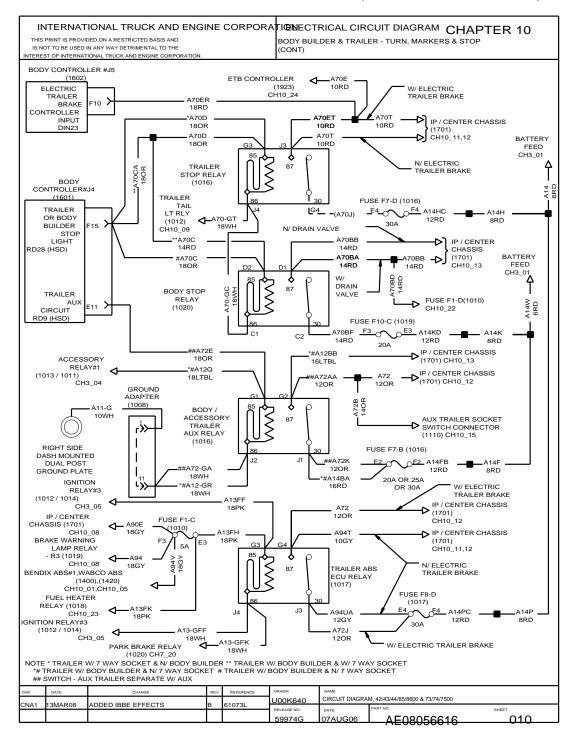


Figure 156 Body Builder and Trailer — Turn, Markers and Stop (Cont.)

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

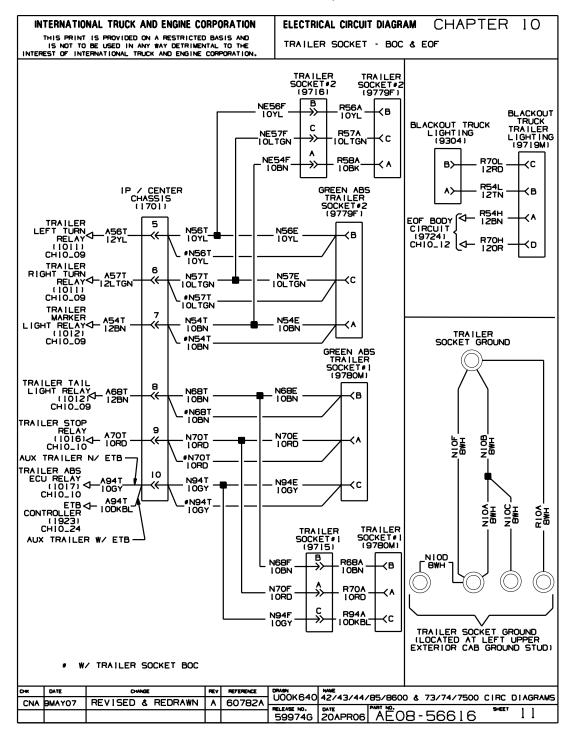


Figure 157 Trailer Socket — SOC and EOF

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

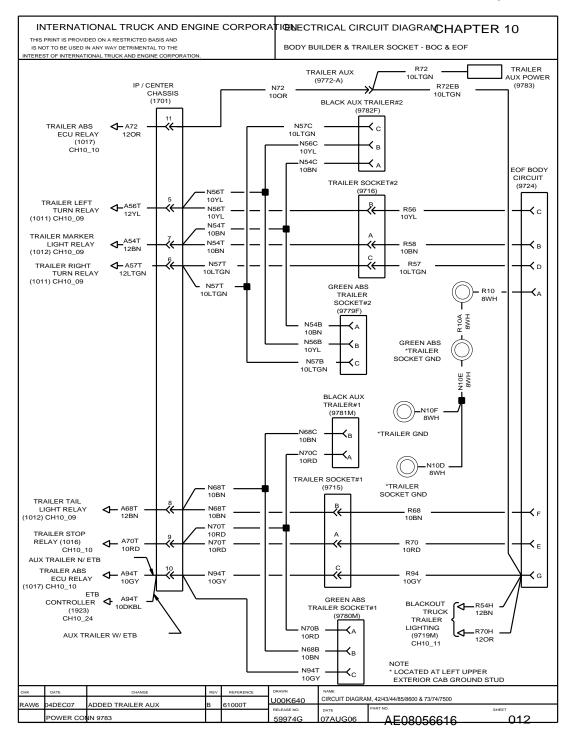


Figure 158 Body Builder and Trailer Socket — SOC and EOF

10.13. BODY BUILDER CONNECTIONS, P. 13

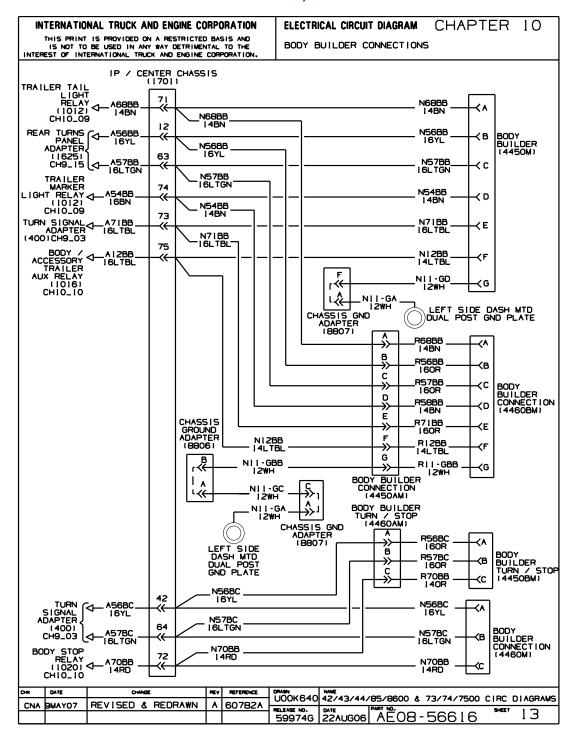


Figure 159 Body Builder Connections

10.14. REMOTE START / STOP, P. 14

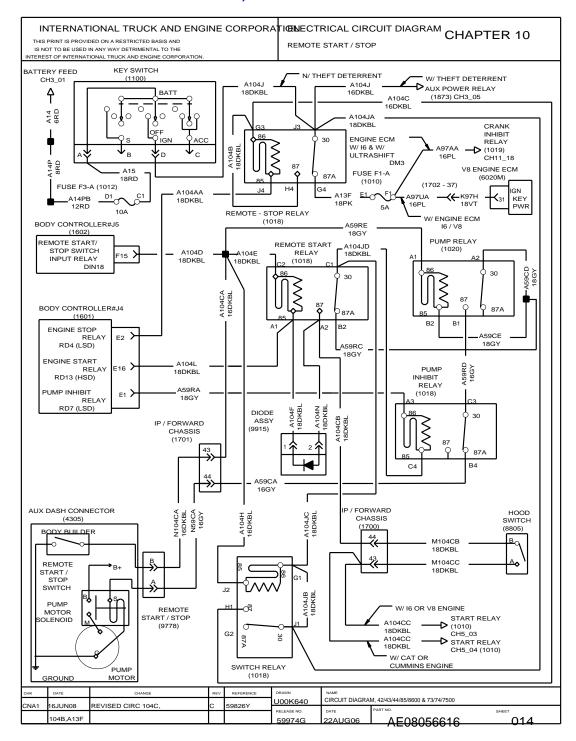


Figure 160 Remote Start / Stop

10.15. AUX TRAILER CIRCUIT, P. 15

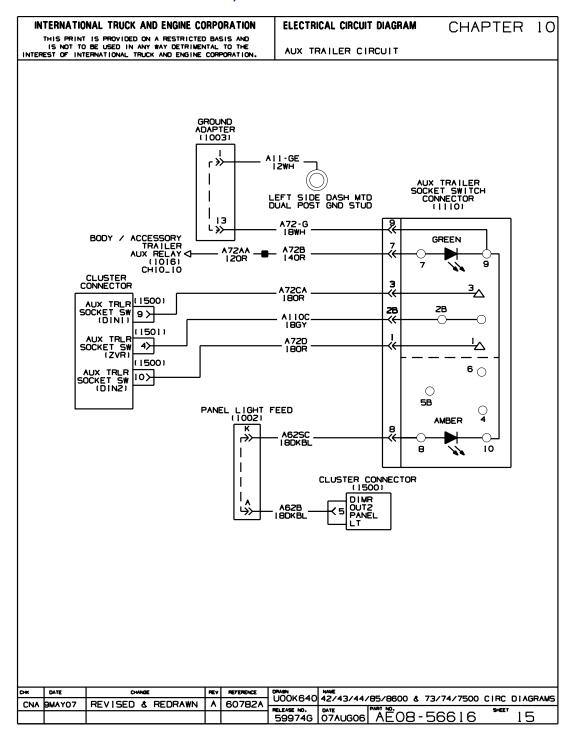


Figure 161 Aux Trailer Circuit

10.16. TWO SPEED AXLE SWITCH, P. 16

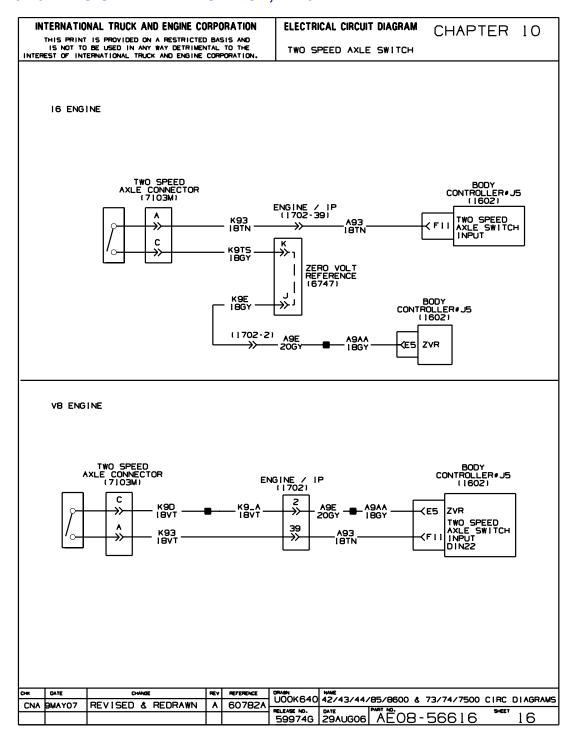


Figure 162 Two Speed Axle Switch

10.17. AIR SOLENOID, P. 17

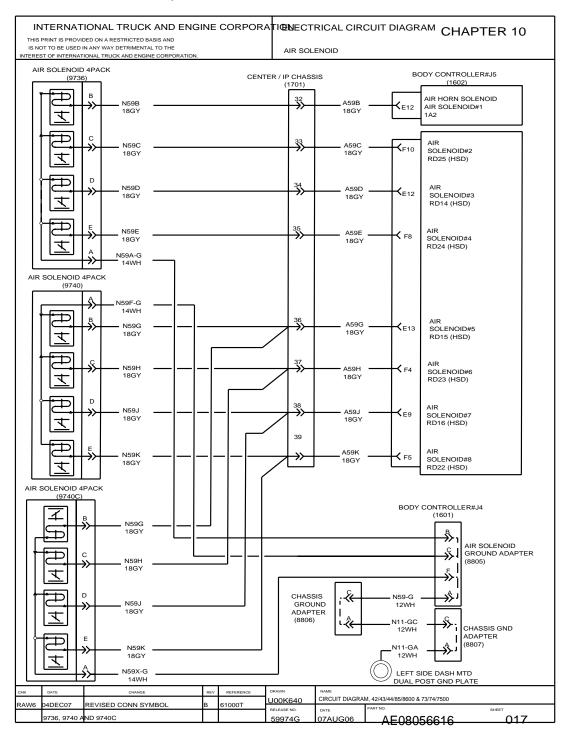


Figure 163 Air Solenoid

10.18. AIR SOLENOID, P. 18

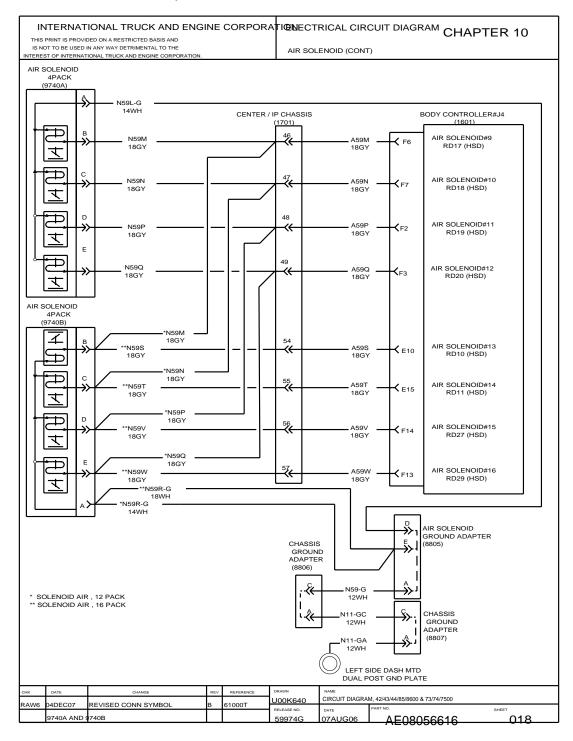


Figure 164 Air Solenoid (Cont.)

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

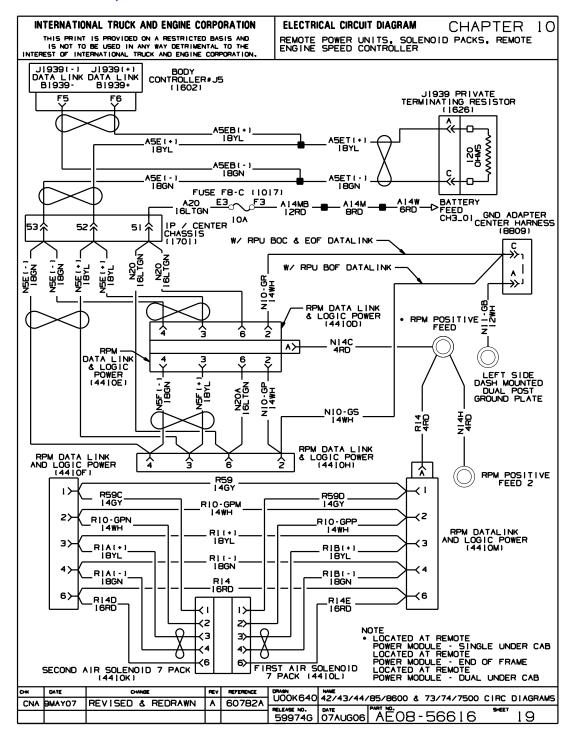


Figure 165 Remote Power Units, Solenoid Packs, Remote Engine Speed Controller

10.20. BLANK PAGE, P. 20

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10.21. AUX AND POWER SOURCE, P. 21

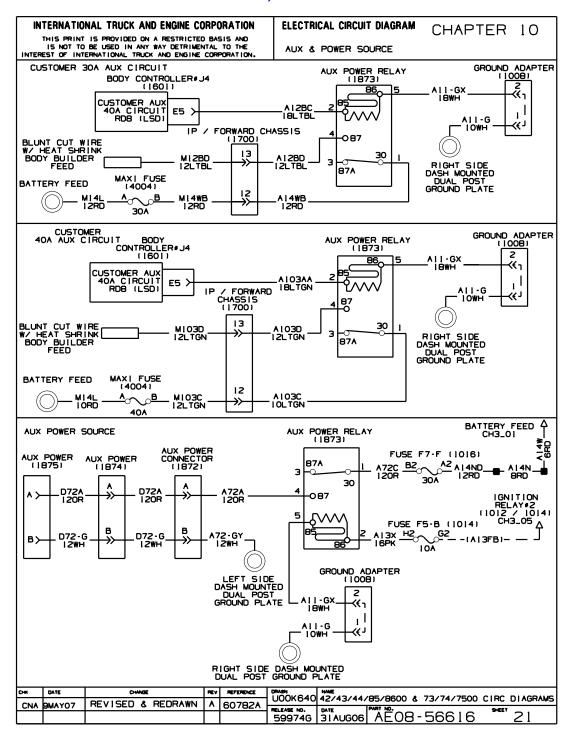


Figure 167 Aux and Power Source

10.22. AIR DRYER AND HEATED DRAIN VALVE, P. 22

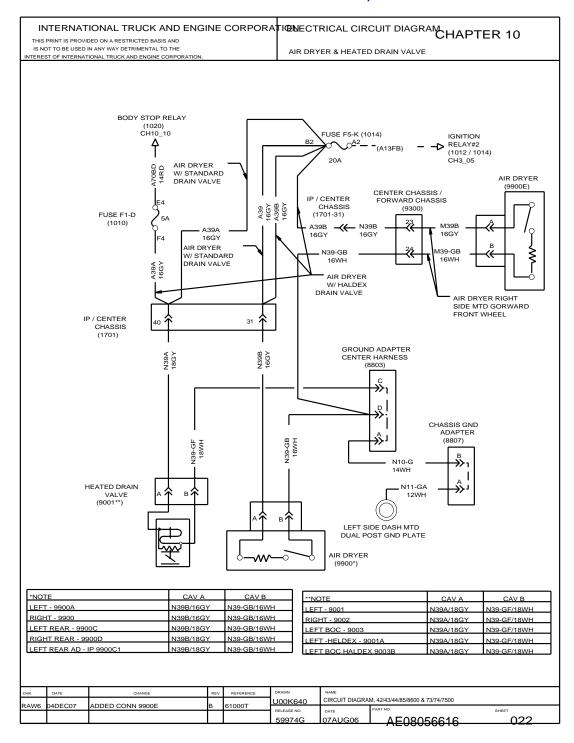


Figure 168 Air Dryer and Heated Drain Valve

10.23. FUEL / WATER SEPARATOR, P. 23

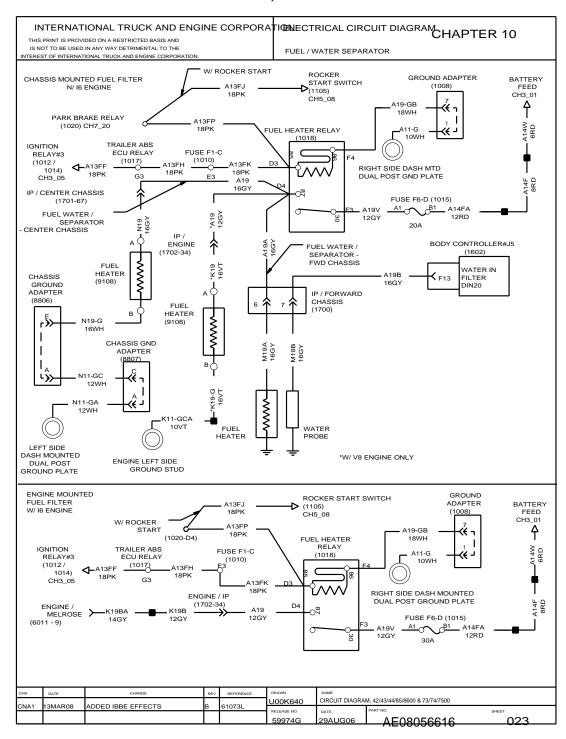


Figure 169 Fuel / Water Separator

10.24. ELECTRIC TRAILER BRAKE, P. 24

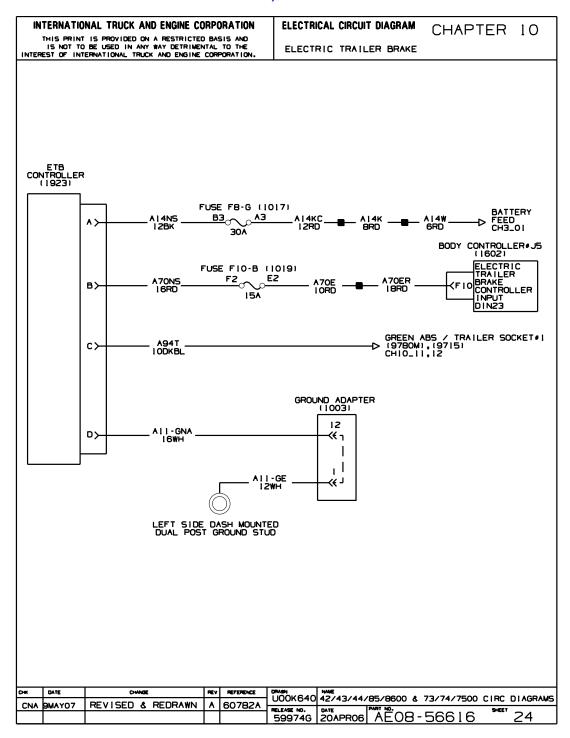


Figure 170 Electric Trailer Brake

10.25. LECTRASHIFT ACCOMMODATION, P. 25

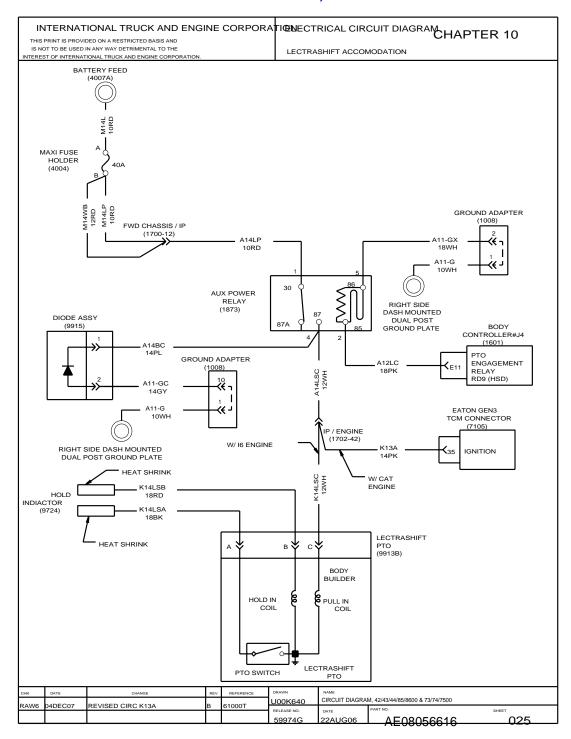


Figure 171 Lectrashift Accommodation

10.26. HOUR METER — PTO, P. 26

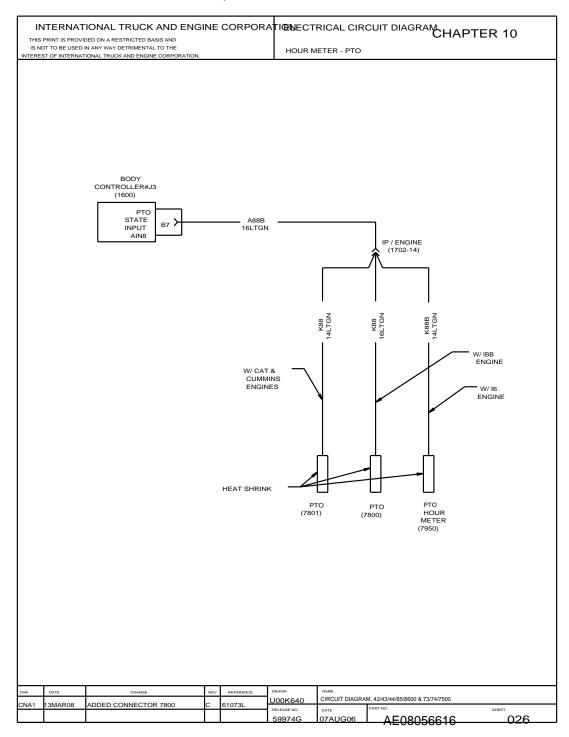


Figure 172 Hour Meter — PTO

10.27. AUX INPUTS AND DRIVERS, P. 27

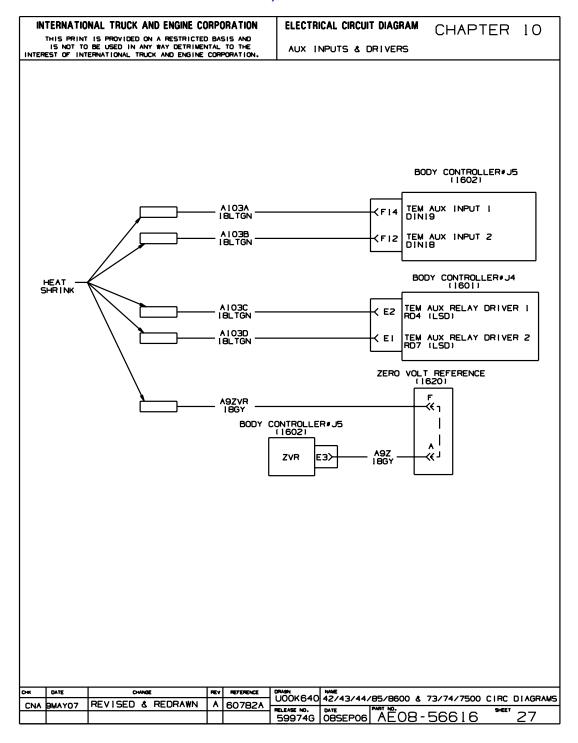


Figure 173 Aux Inputs and Drivers

10.28. FUEL TRANSFER PUMP, P. 28

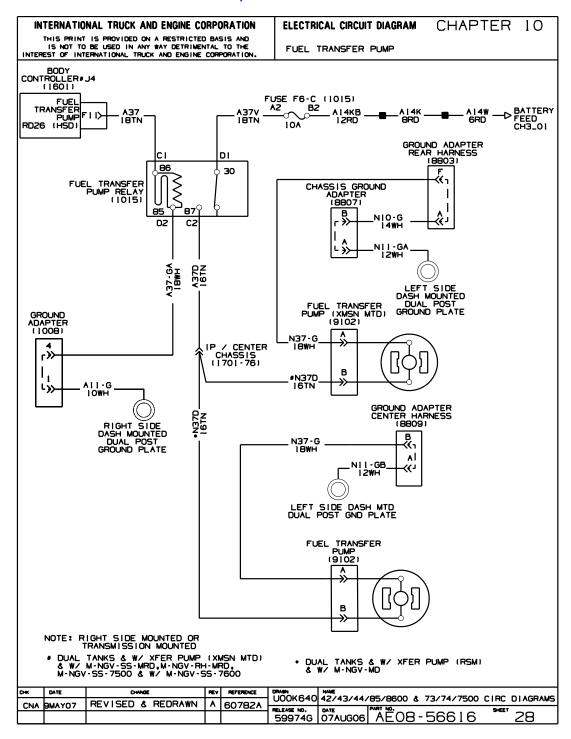


Figure 174 Fuel Transfer Pump

10.29. BLANK PAGE, P. 29

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10.30. TELEMATICS AWARE — BODY BUILDER, P. 30

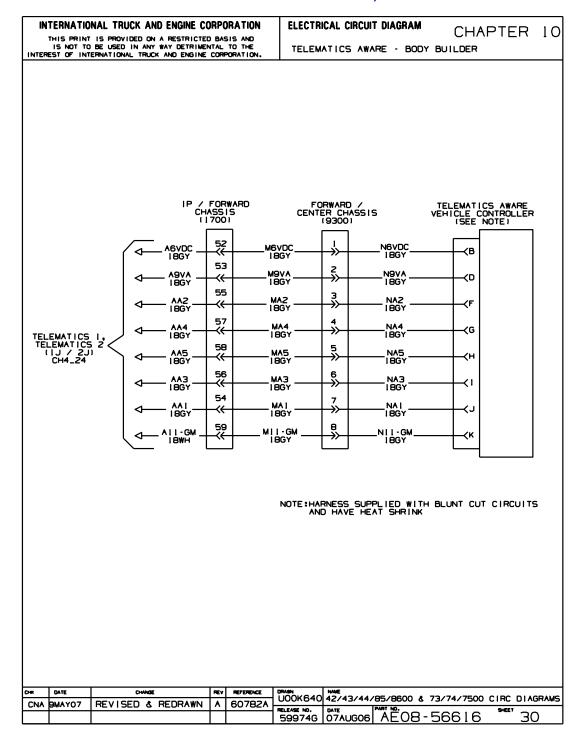


Figure 176 Telematics Aware — Body Builder

10.31. PRESSURE SWITCH, P. 31

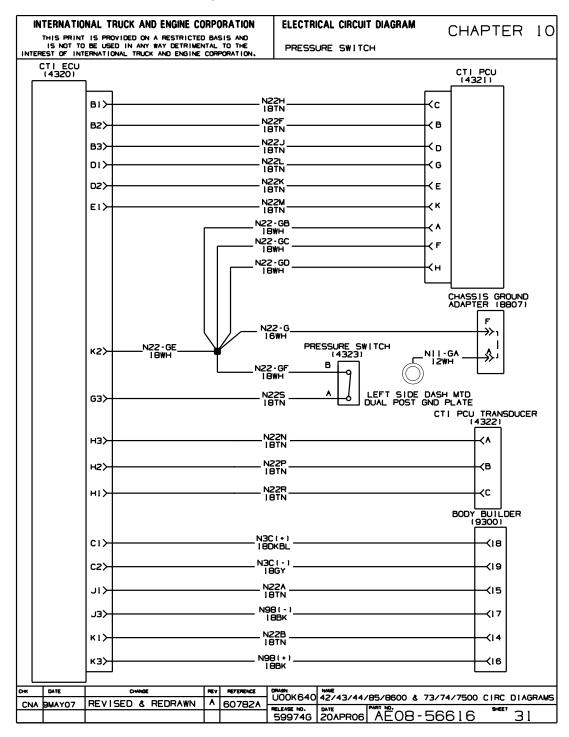


Figure 177 Pressure Switch

10.32. LIFT GATE, P. 32

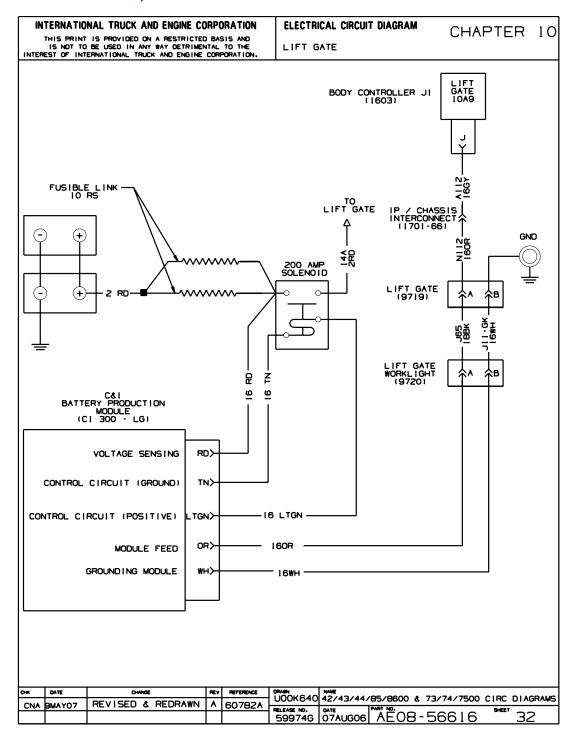


Figure 178 Lift Gate

10.33. WHEELCHAIR LIFT INTERLOCK, P. 33

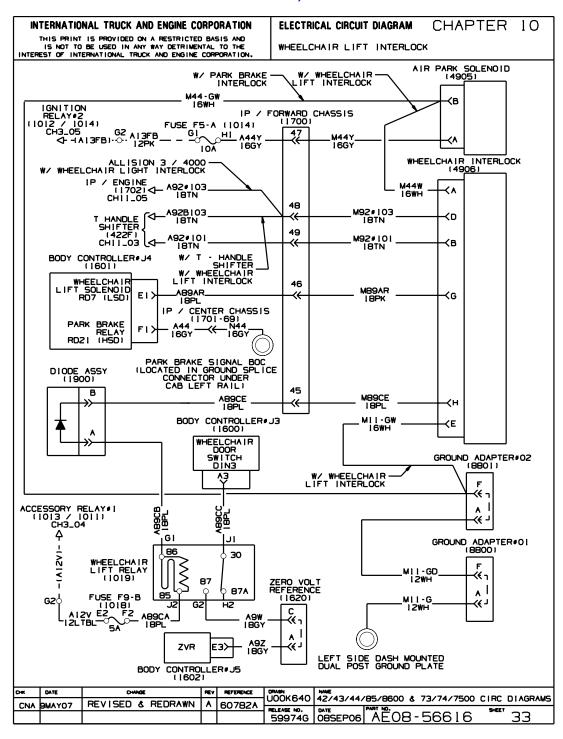


Figure 179 Wheelchair Lift Interlock

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

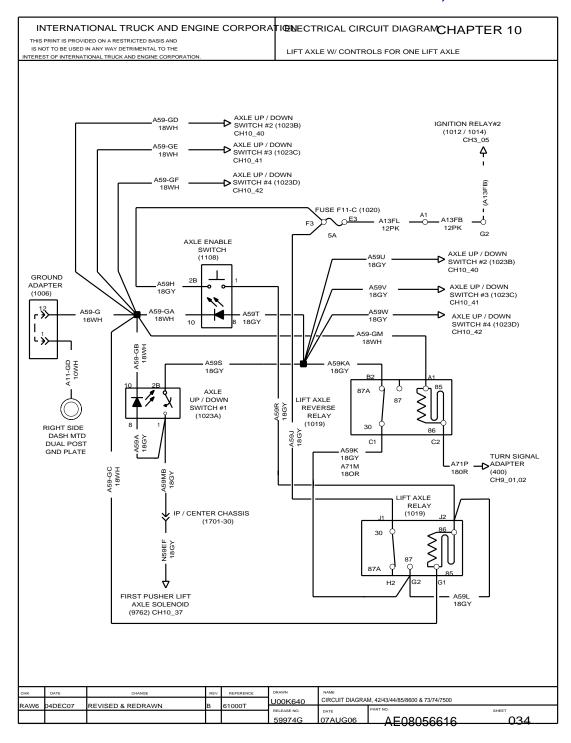


Figure 180 Lift Axle with Controls for One Lift Axle

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

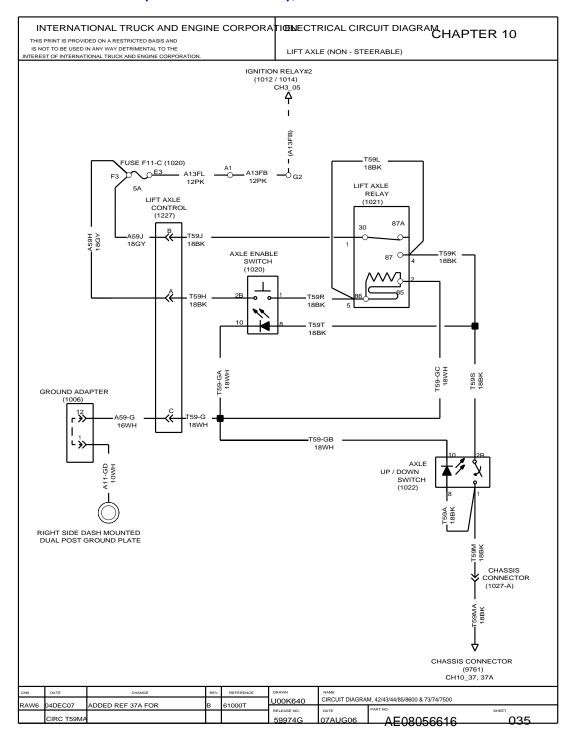


Figure 181 Lift Axle (Non-Steerable)

10.36. LIFT AXLE (STEERABLE), P. 36

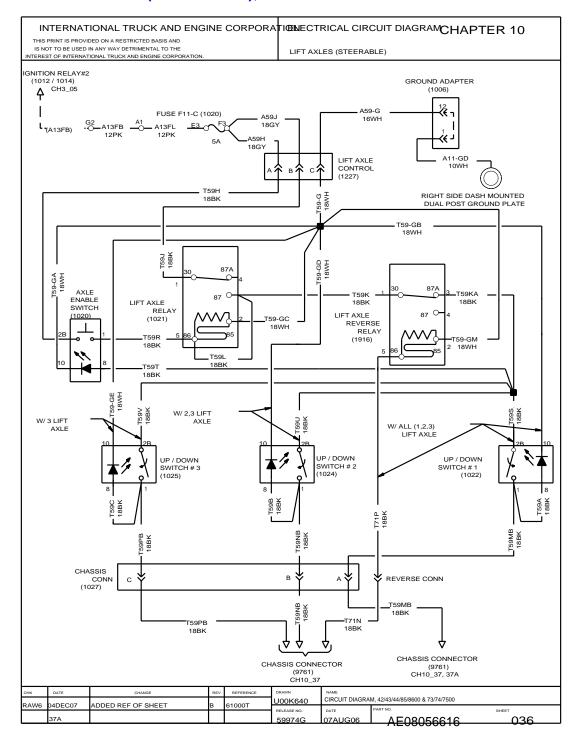


Figure 182 Lift Axle (Steerable)

10.37. LIFT AXLES, P. 37

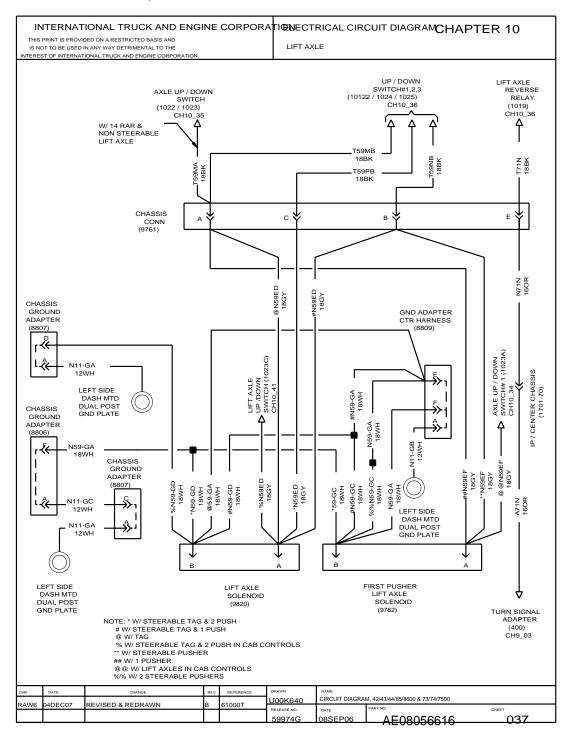


Figure 183 Lift Axles

10.38. LIFT AXLES, P. 37A

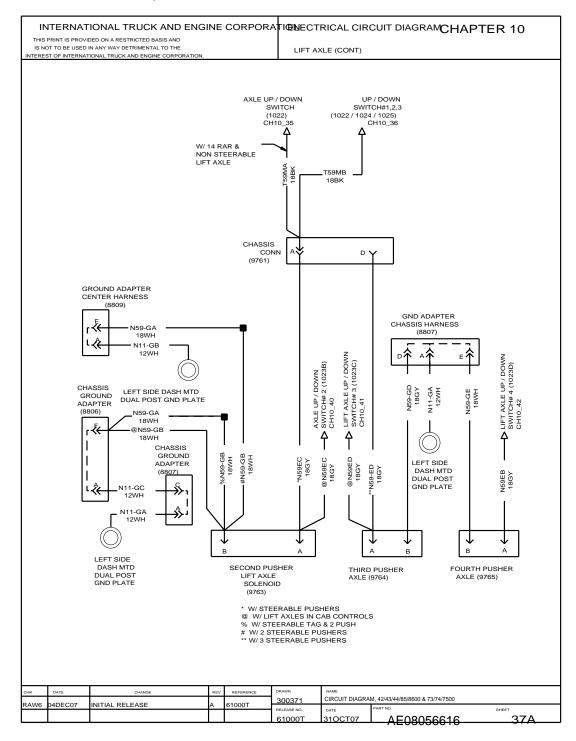


Figure 184 Lift Axles

10.39. ABS — BENDIX AIR 6S/6M, P. 38

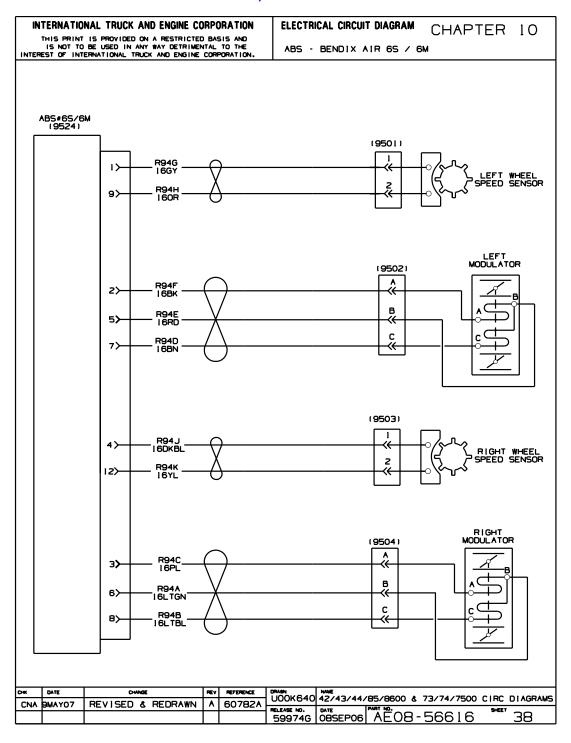


Figure 185 ABS — Bendix Air 6S/6M

10.40. ABS — BENDIX AIR 6S/6M, P. 39

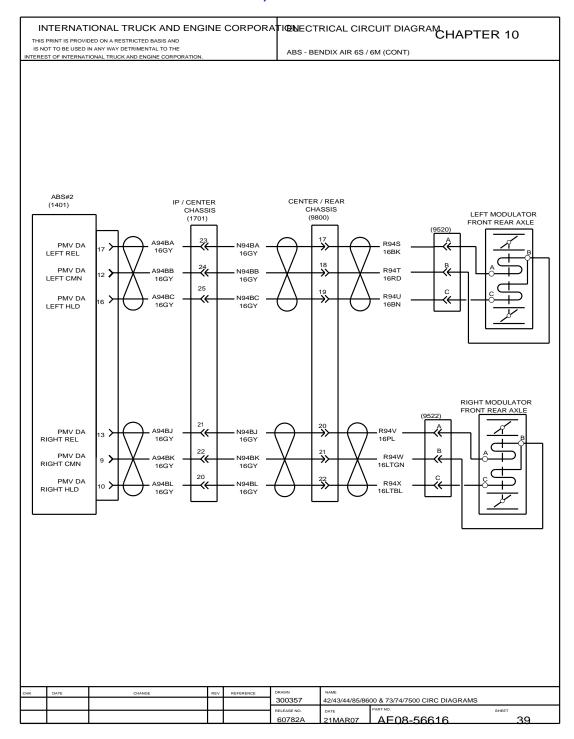


Figure 186 ABS — Bendix Air 6S/6M

10.41. LIFT AXLE WITH CONTROLS FOR TWO LIFT AXLES, P. 40

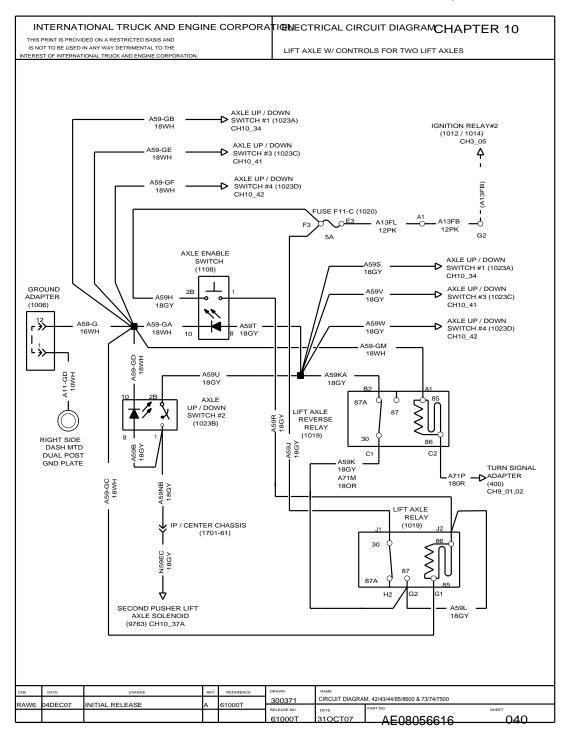


Figure 187 Lift Axle with Controls for Two Lift Axles

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

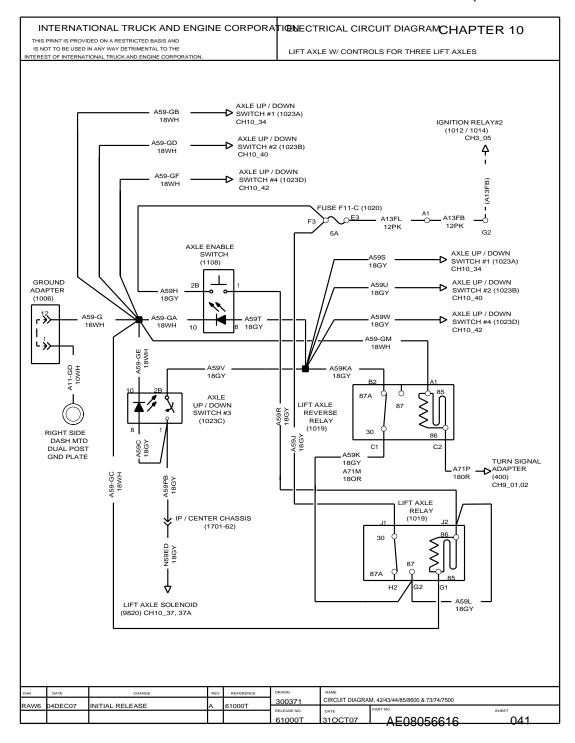


Figure 188 Lift Axle with Controls for Three Lift Axles

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

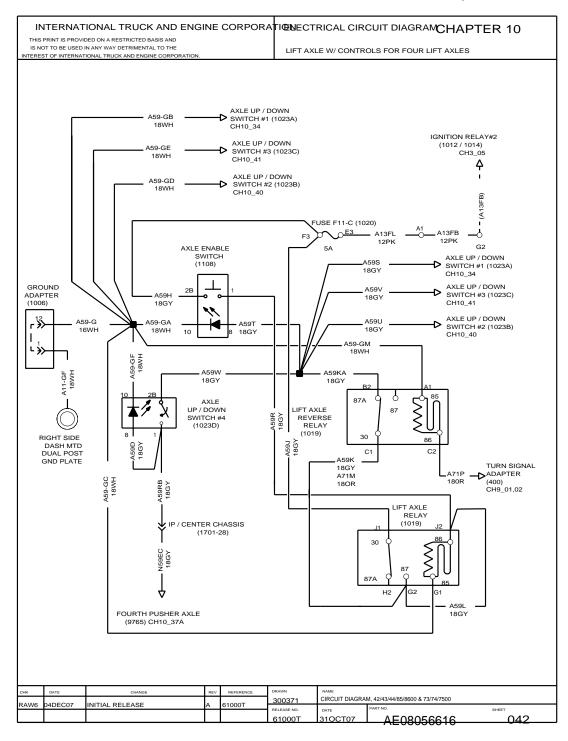


Figure 189 Lift Axle with Controls for Four Lift Axles

10.44. ABS ESP / RSP, P. 43

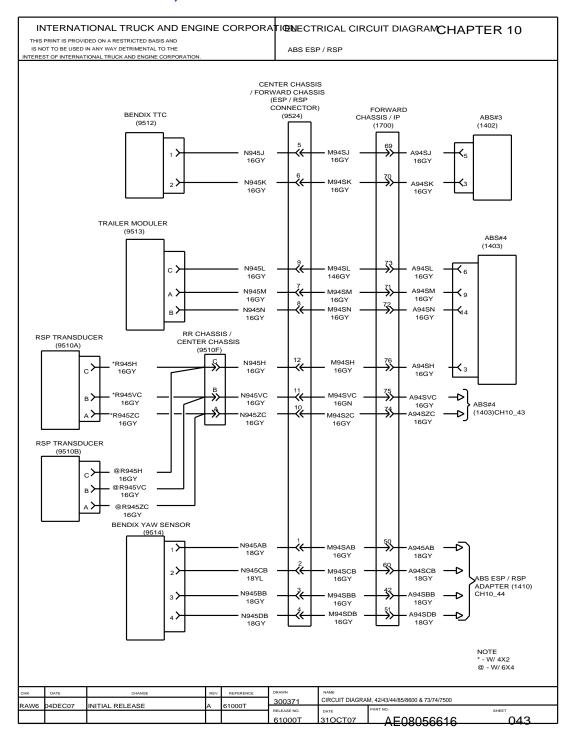


Figure 190 ABS ESP / RSP

10.45. ABS ESP / RSP, P. 44

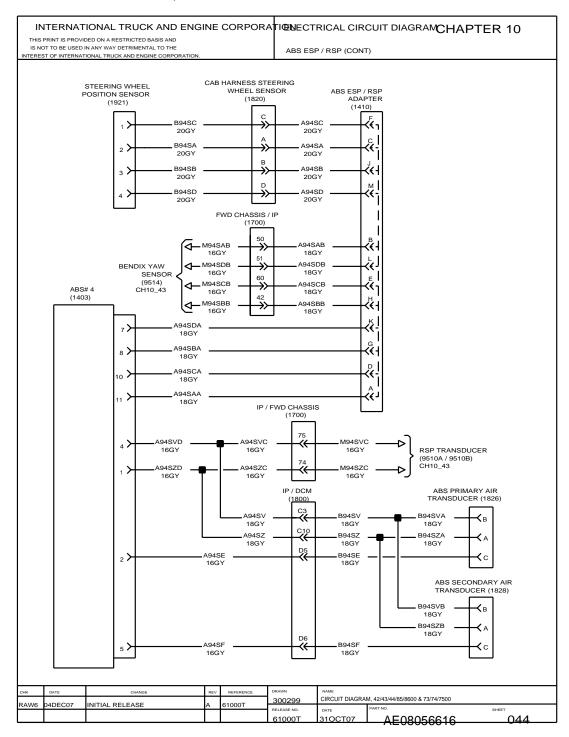


Figure 191 ABS ESP / RSP

11. TRANSMISSIONS (CHAPTER 11)

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

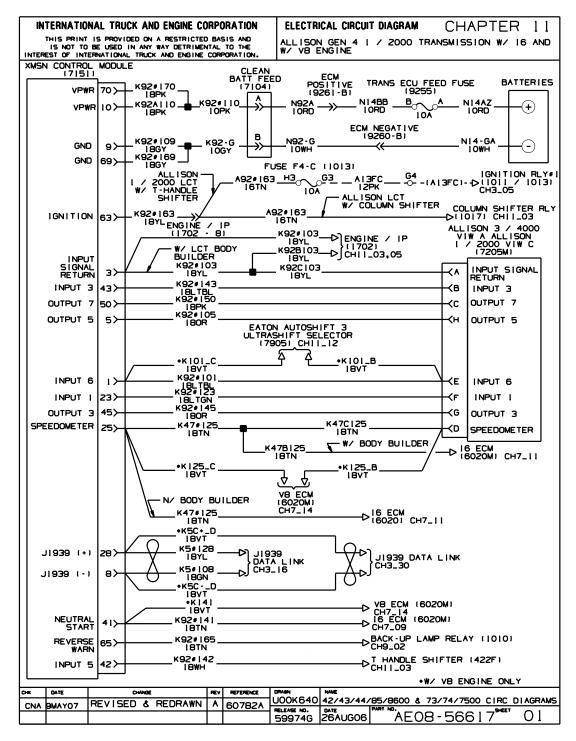


Figure 192 Allison GEN 4 1/2000 Transmission with I6 and with V8 Engine

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

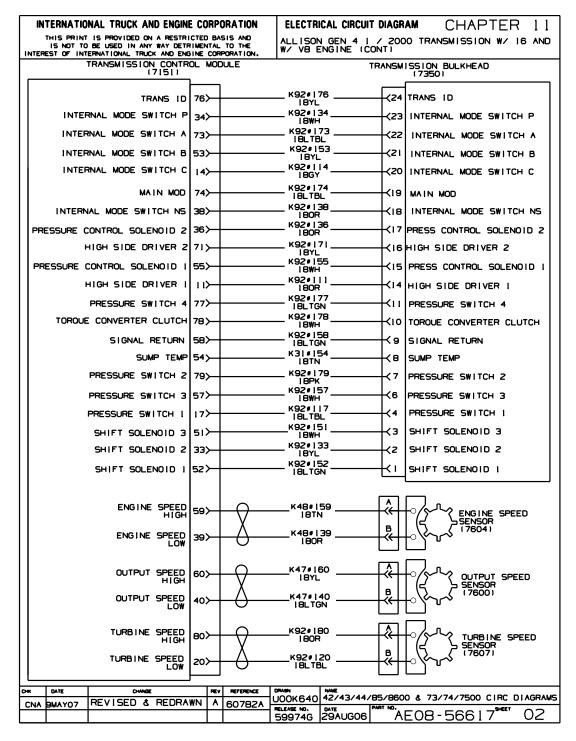


Figure 193 Allison GEN 4 1/2000 Transmission with I6 and with V8 Engine (Cont.)

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

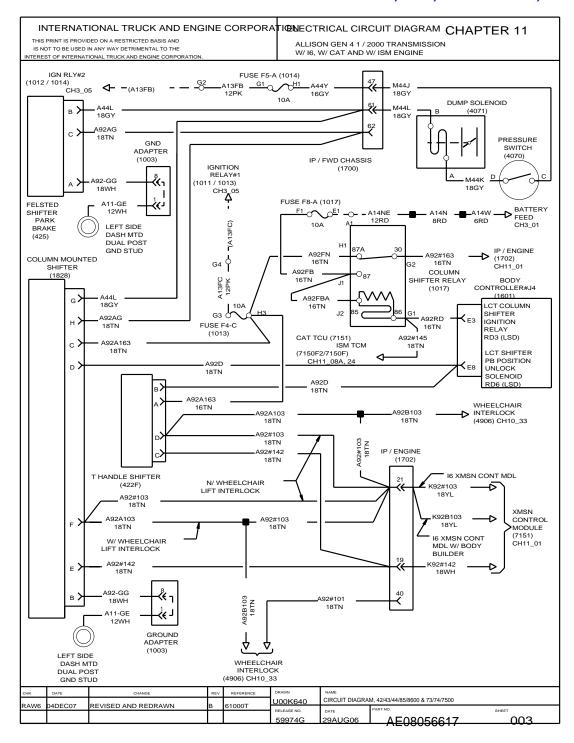


Figure 194 Allison GEN 4 1/2000 Transmission W/ I6, CAT, ISM Engines

11.4. TRANSMISSION, ALLISON MD WITH 16 AND WITH V8 ENGINE, P. 4

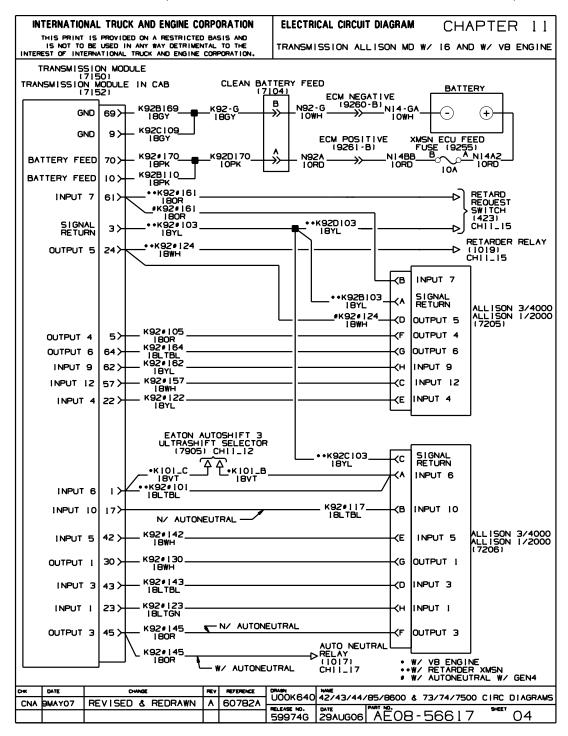


Figure 195 Transmission, Allison MD with I6 and with V8 Engine

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

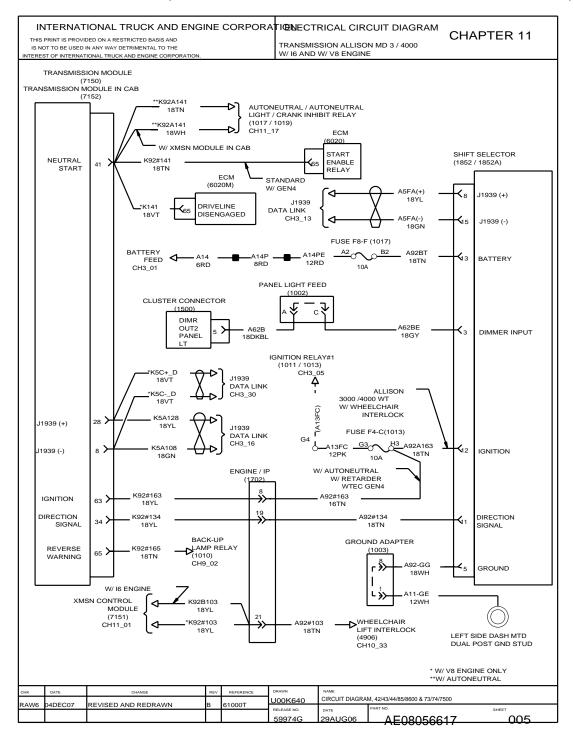


Figure 196 Transmission, Allison MD 3/4000 with I6 and with V8 Engine

11.6. TRANSMISSION, ALLISON MD/HD (WTEC) WITH 16 AND WITH V8 ENGINE, P. 6

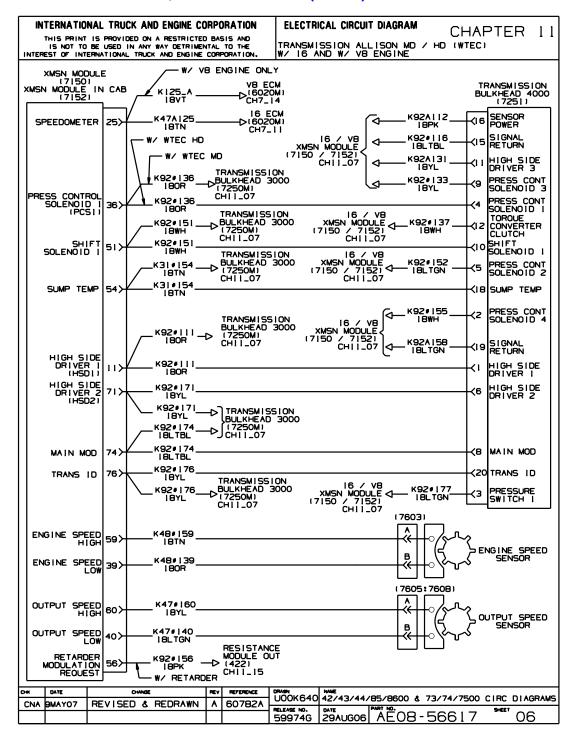


Figure 197 Transmission, Allison MD/HD (WTEC) with I6 and with V8 Engine

11.7. TRANSMISSION, ALLISON MD/HD (WTEC) WITH I6 AND WITH V8 ENGINE (CONT.), P. 7

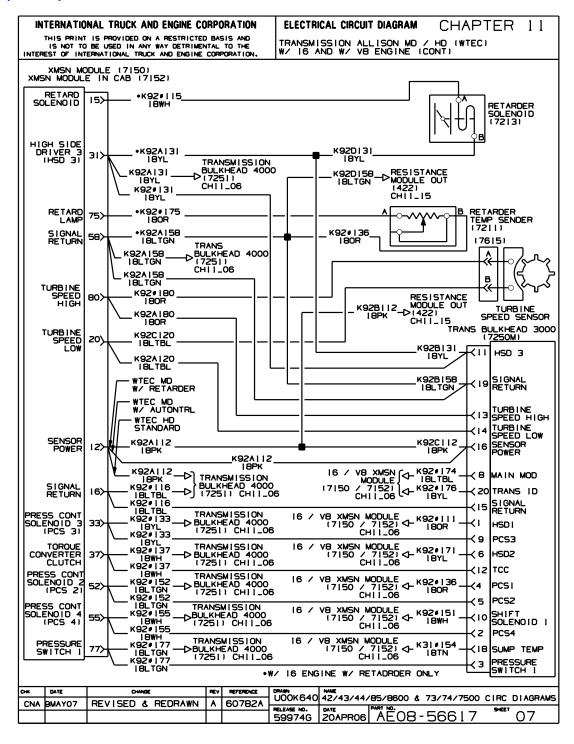


Figure 198 Transmission, Allison MD/HD (WTEC) with I6 and with V8 Engine (Cont.)

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

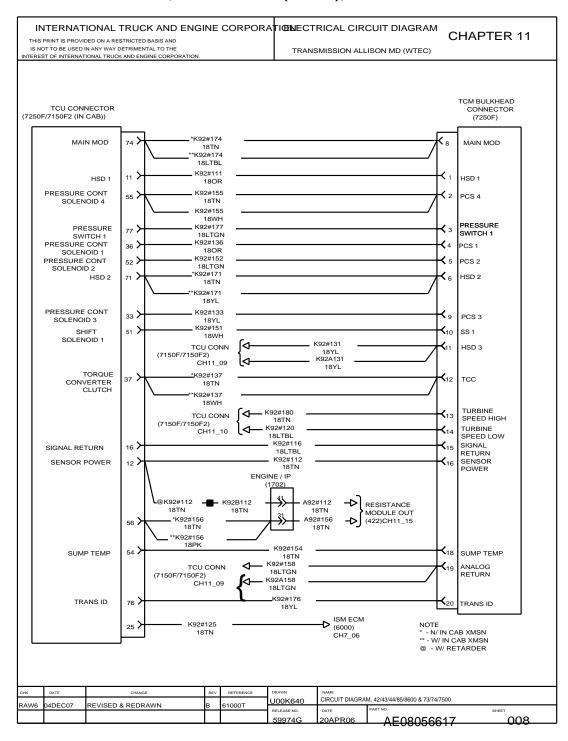


Figure 199 Transmission, Allison MD (WTEC)

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

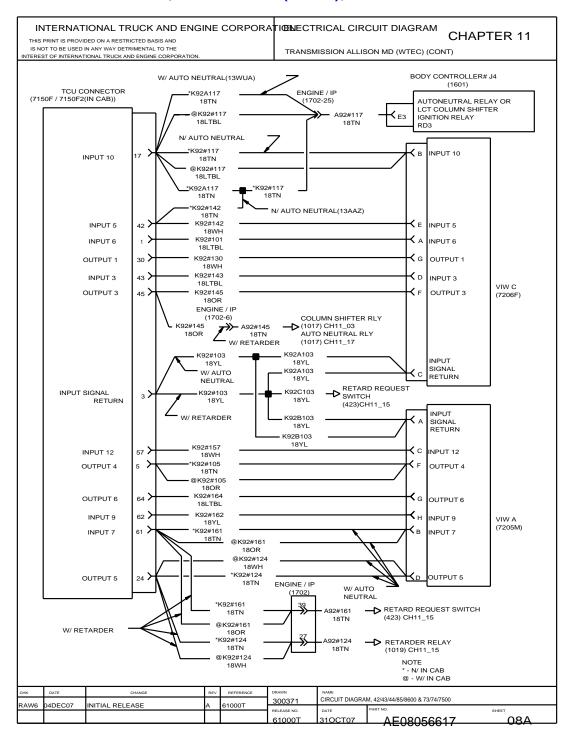


Figure 200 Transmission, Allison MD (WTEC)

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

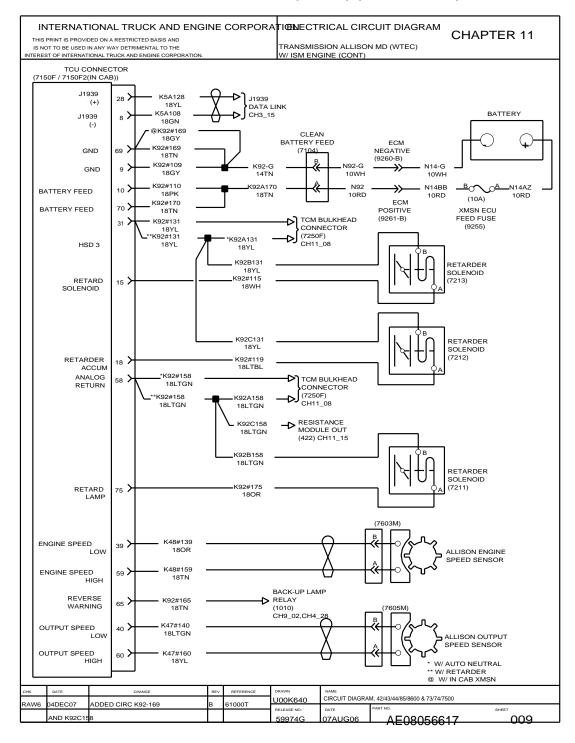


Figure 201 Transmission, Allison MD (WTEC) (ISM Engine)

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

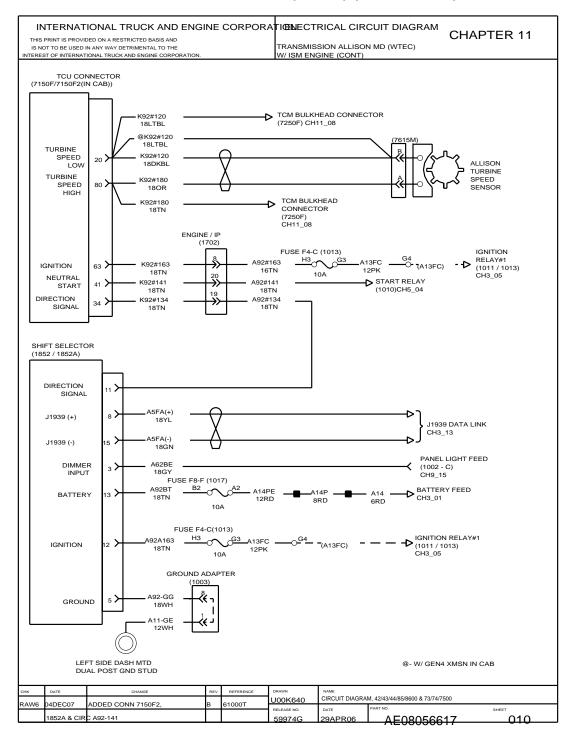


Figure 202 Transmission, Allison MD (WTEC) (ISM Engine) (Cont.)

11.12. EATON AUTOSHIFT TRANSMISSION W/ 16 ENGINE, P. 11

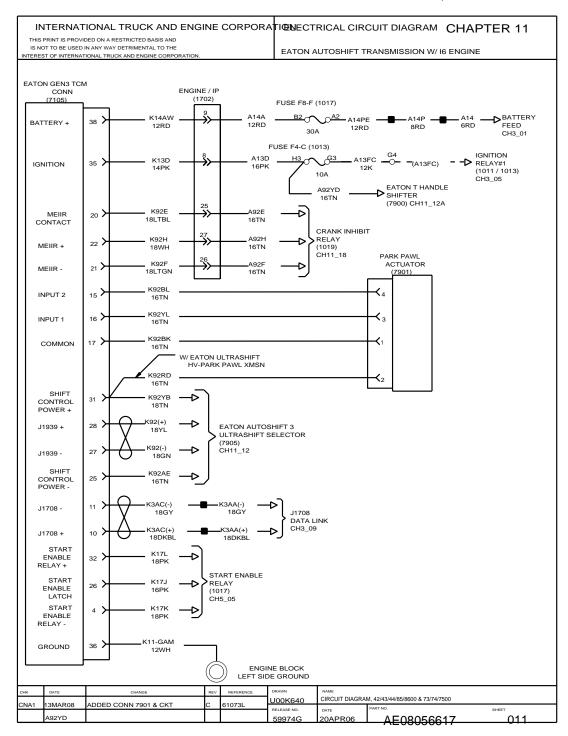


Figure 203 Eaton Autoshift Transmission W/ I6 Engine

11.13. EATON AUTOSHIFT TRANSMISSION, P. 12

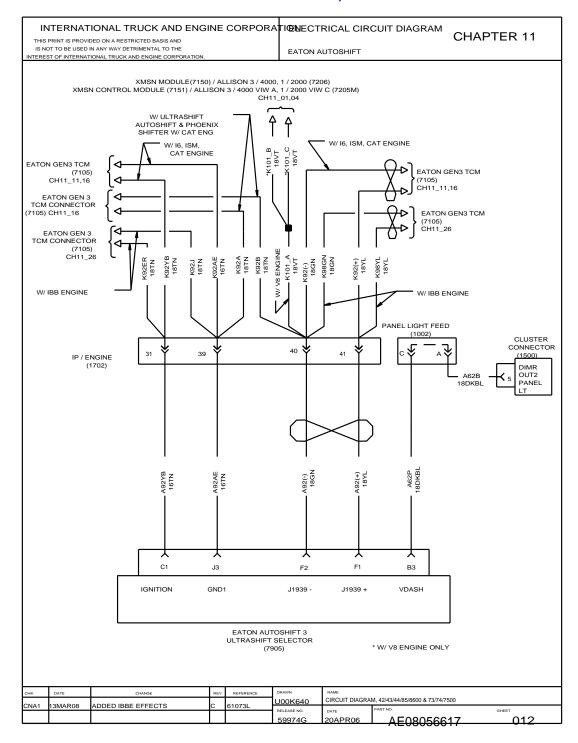


Figure 204 Eaton Autoshift Transmission

11.14. EATON AUTOSHIFT TRANSMISSION, P. 12A

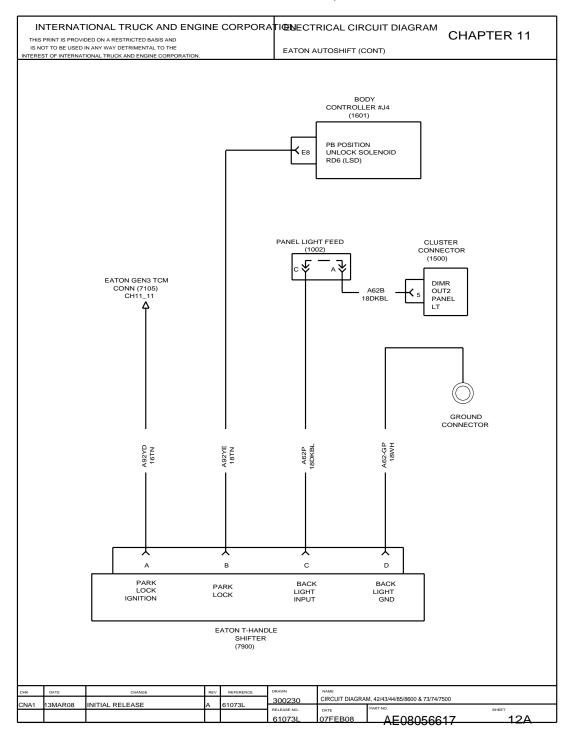


Figure 205 Eaton Autoshift Transmission

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

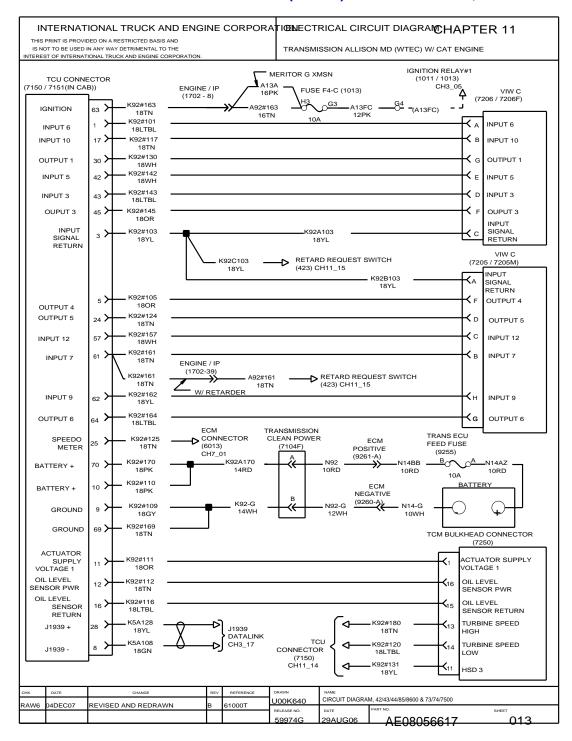


Figure 206 Transmission Allison MD (WTEC) W/ Cat Engine

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

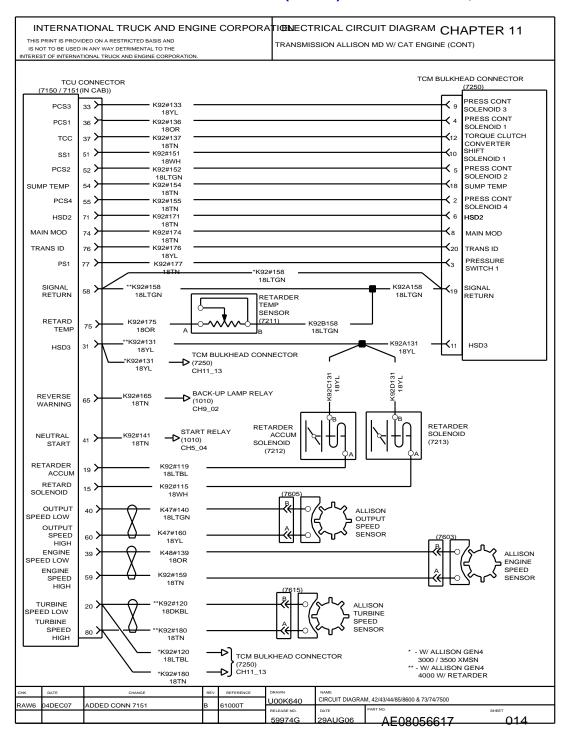


Figure 207 Transmission Allison MD (WTEC) W/ Cat Engine

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

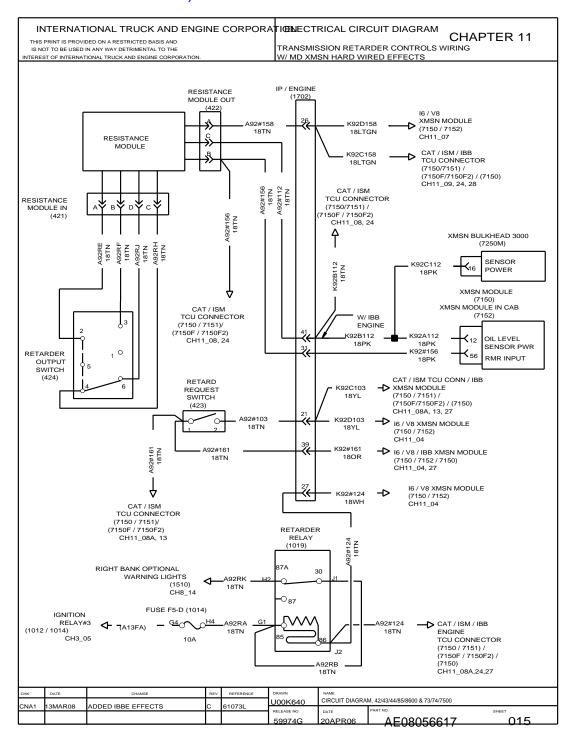


Figure 208 Transmission Retarder Controls Wiring with MD Transmission Hard Wired Effects

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

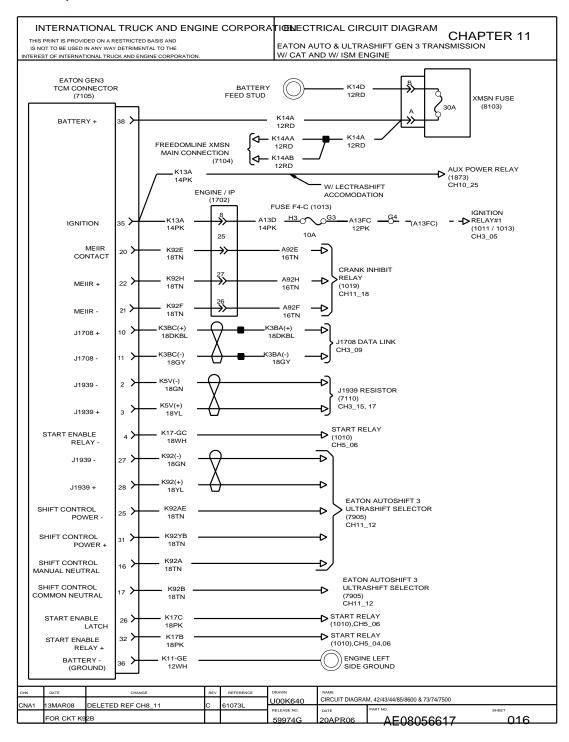


Figure 209 Eaton Auto and Ultrashift Gen 3 Transmission W/ Cat and W/ ISM Engine

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

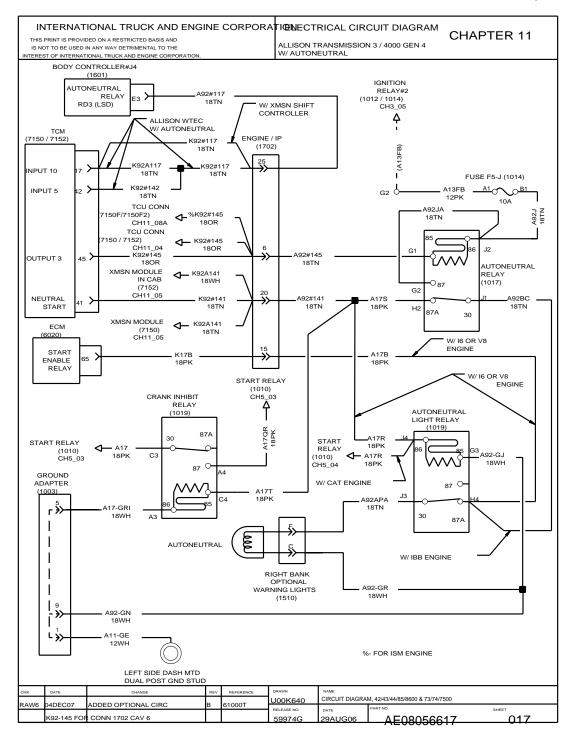


Figure 210 Allison Transmission 3/4000 Gen 4 With Auto Neutral

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

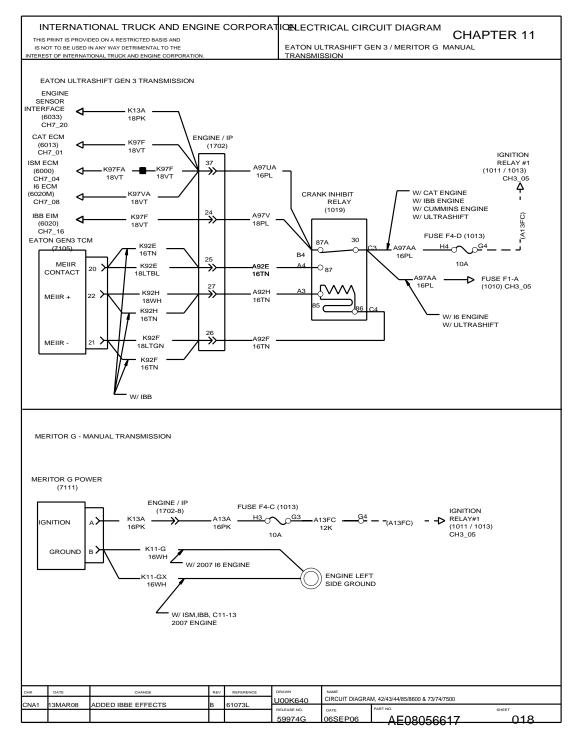


Figure 211 Eaton Ultrashift Gen 3 / Meritor G — Manual Transmission

11.21. EATON HYBRID TRANSMISSION, P. 19

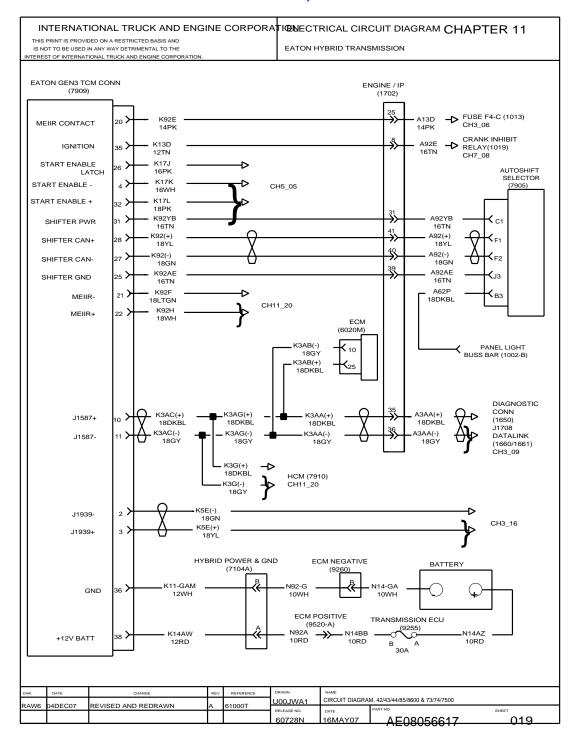


Figure 212 Eaton Hybrid Transmission

11.22. EATON HYBRID TRANSMISSION, P. 20

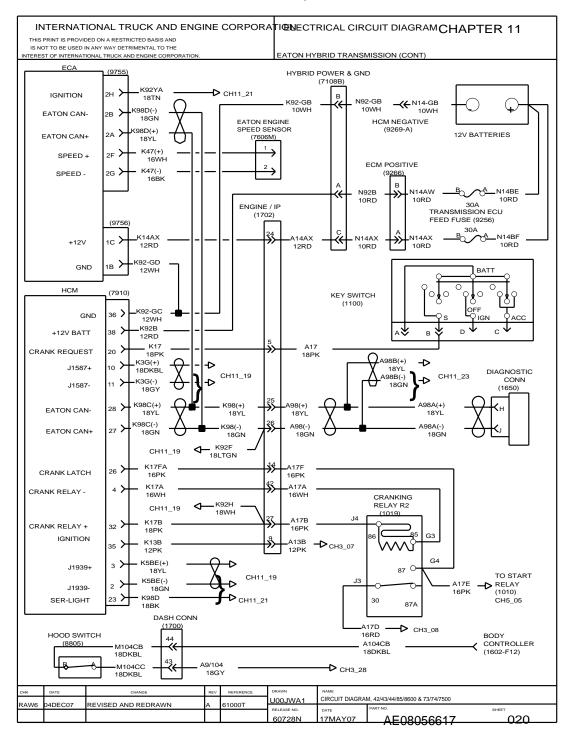


Figure 213 Eaton Hybrid Transmission

11.23. EATON HYBRID TRANSMISSION, P. 21

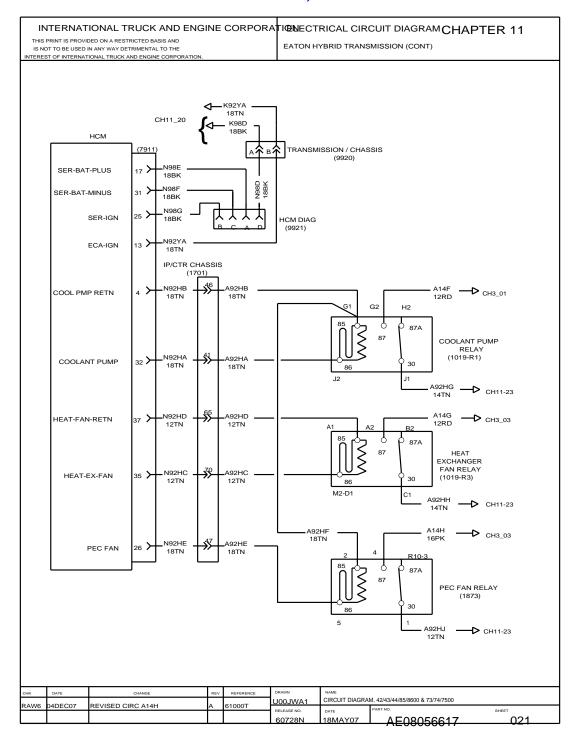


Figure 214 Eaton Hybrid Transmission

11.24. EATON HYBRID TRANSMISSION, P. 22

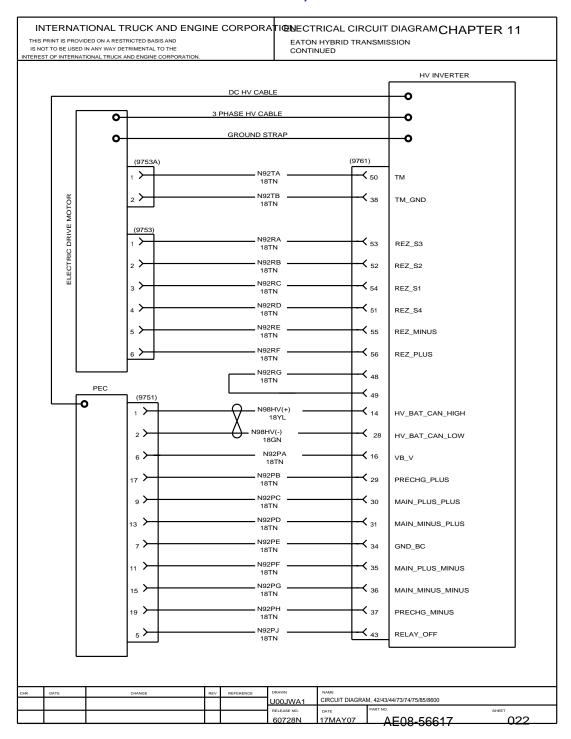


Figure 215 Eaton Hybrid Transmission

11.25. EATON HYBRID TRANSMISSION, P. 23

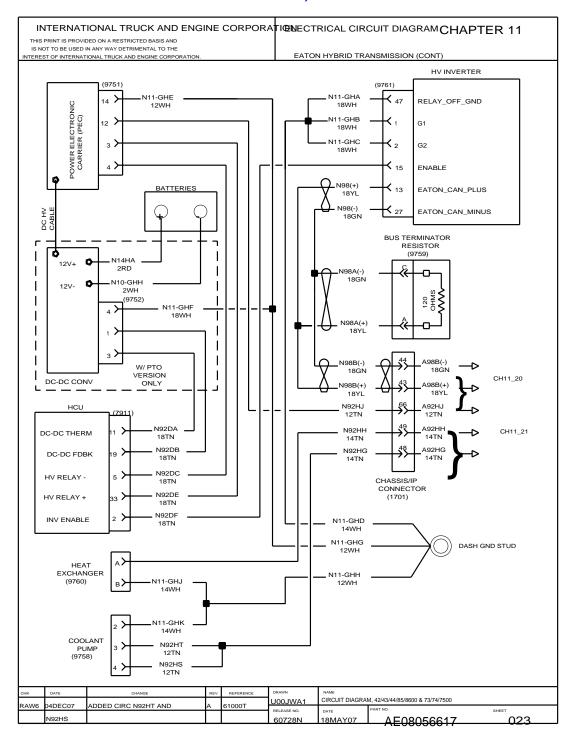


Figure 216 Eaton Hybrid Transmission

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

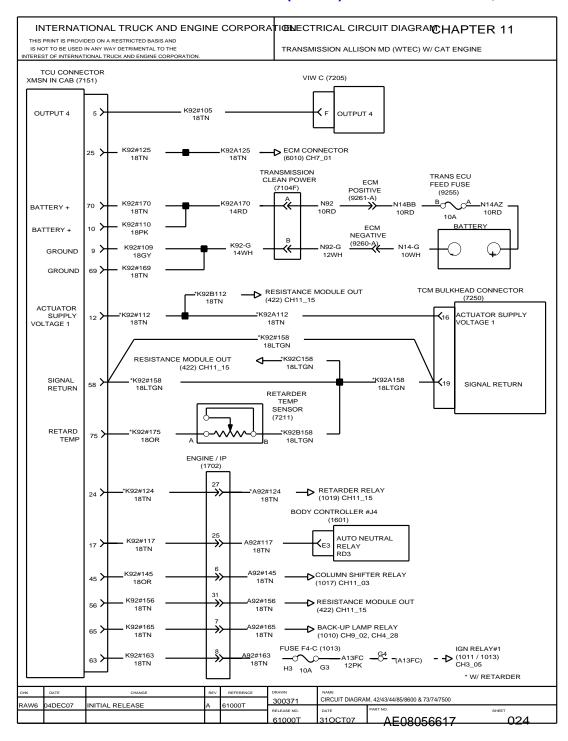


Figure 217 Transmission Allison MD (WTEC) with Cat Engine

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

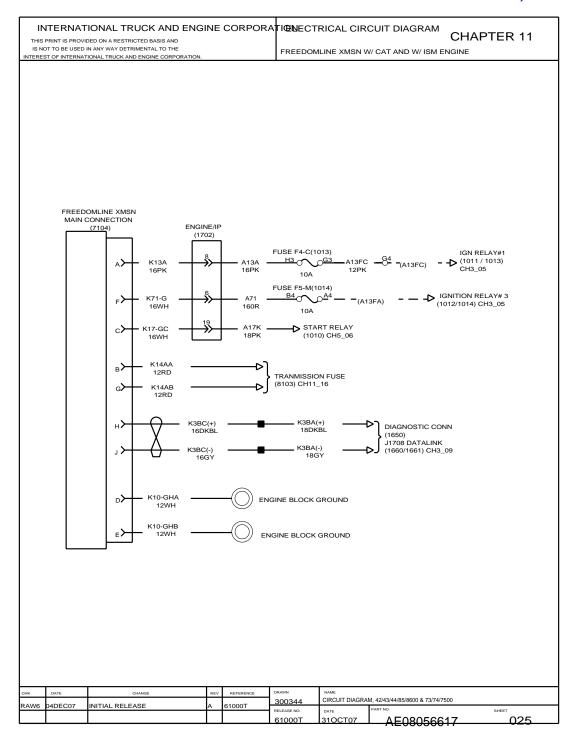


Figure 218 Freedomline Transmission with Cat and ISM Engine

11.28. EATON AUTO AND ULTRASHIFT GEN 3 TRANSMISSION WITH IBB ENGINE, P. 26

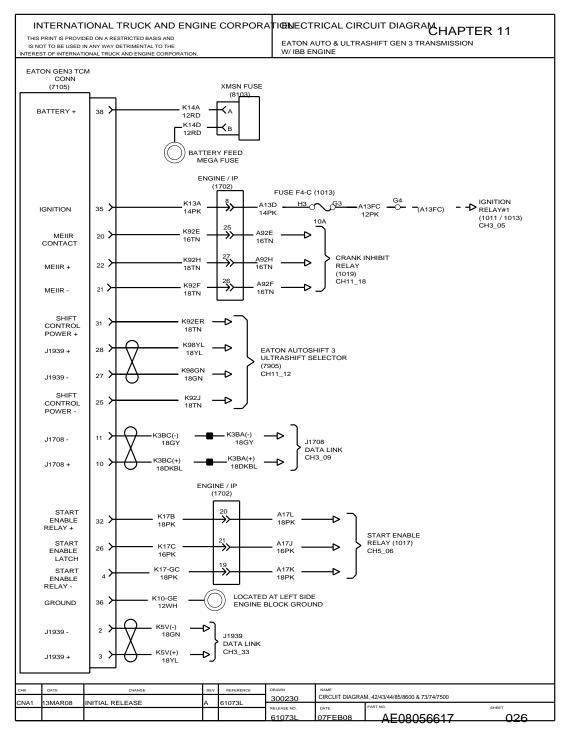


Figure 219 Eaton Auto and Ultrashift Gen 3 Transmission with IBB Engine

11.29. TRANSMISSION ALLISON WITH IBB ENGINE, P. 27

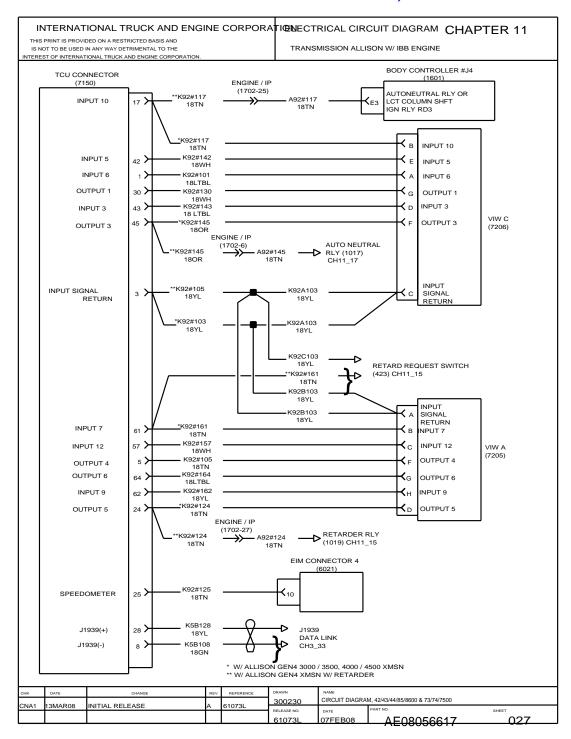


Figure 220 Transmission Allison with IBB Engine

11.30. TRANSMISSION ALLISON WITH IBB ENGINE, P. 28

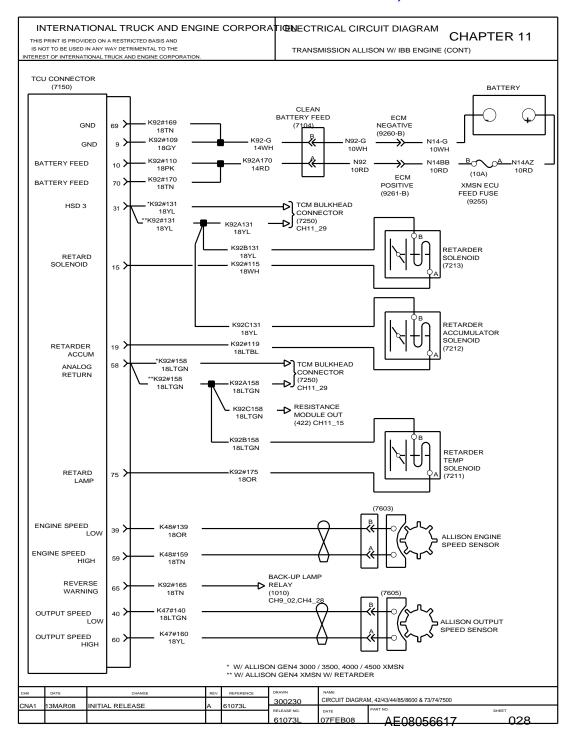


Figure 221 Transmission Allison with IBB Engine

11.31. TRANSMISSION ALLISON WITH IBB ENGINE, P. 29

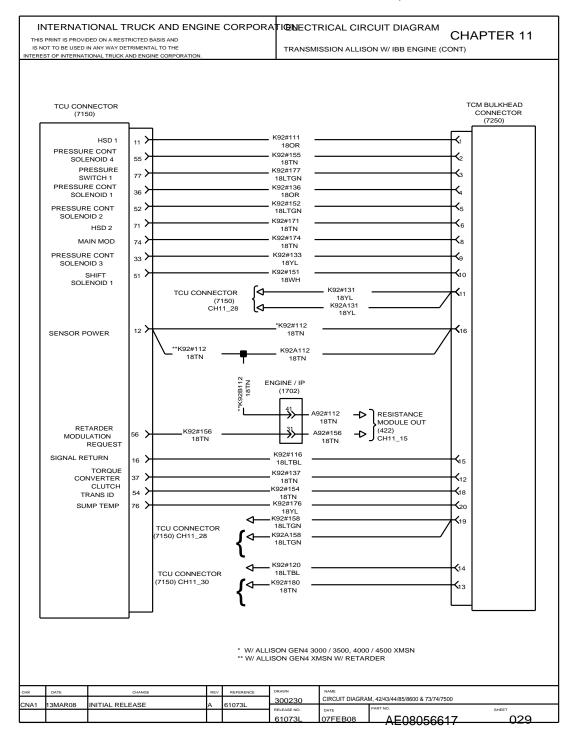


Figure 222 Transmission Allison with IBB Engine

11.32. TRANSMISSION ALLISON WITH IBB ENGINE, P. 30

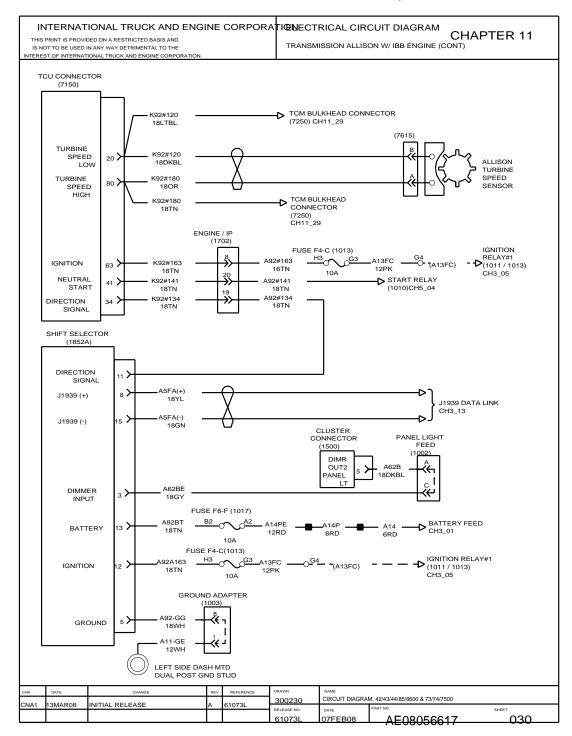


Figure 223 Transmission Allison with IBB Engine

12. AIR CONDITIONING (CHAPTER 12)

12.1. AIR CONDITIONING, P. 1

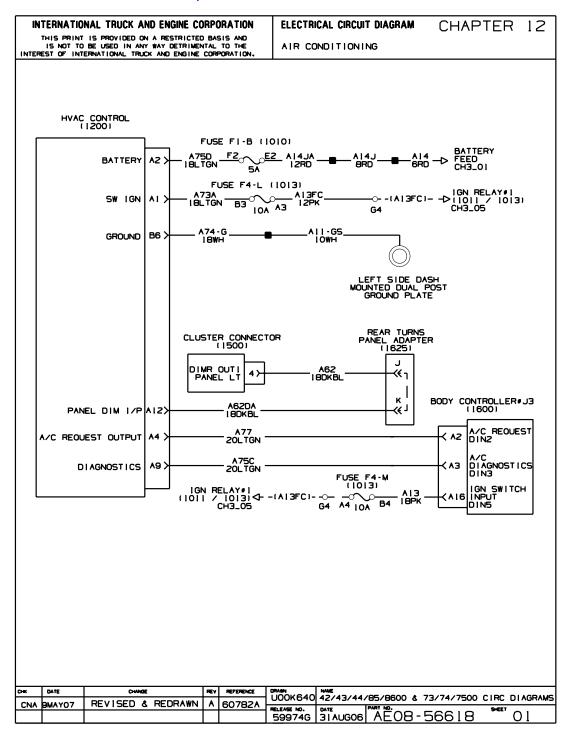


Figure 224 Air Conditioning

12.2. AIR CONDITIONING, P. 2

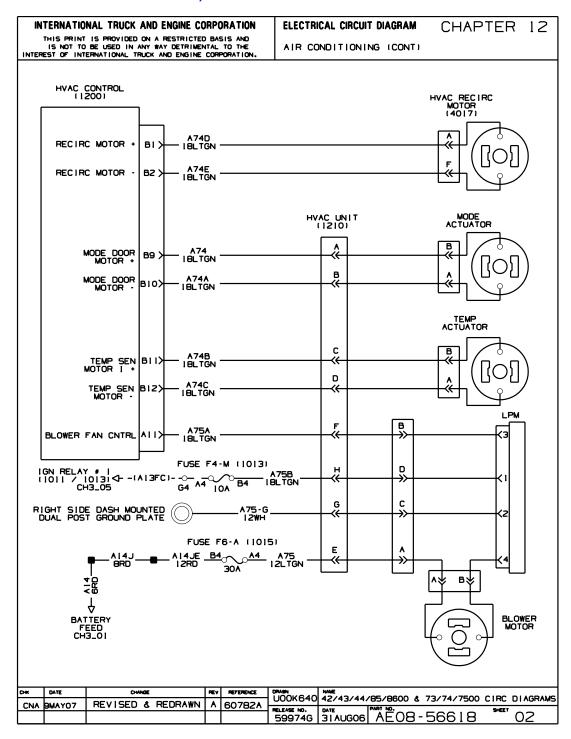


Figure 225 Air Conditioning (Cont.)

12.3. HVAC SYSTEM, P. 3

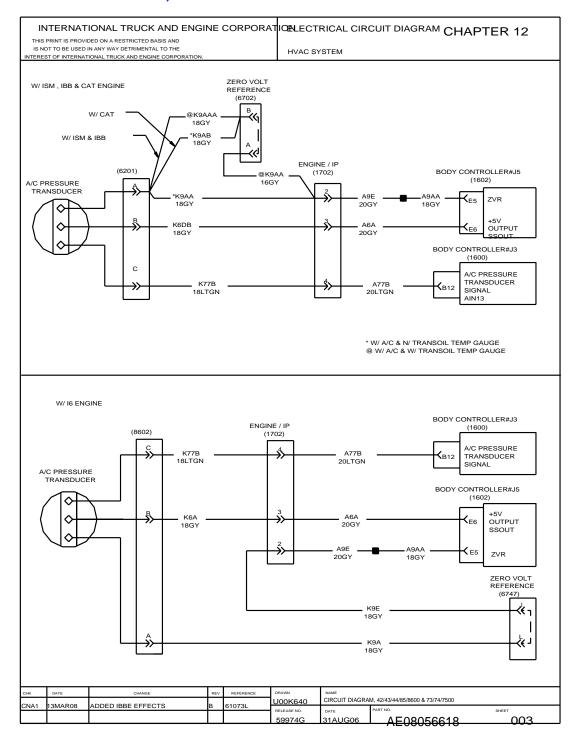


Figure 226 HVAC System

12.4. HVAC SYSTEM, P. 4

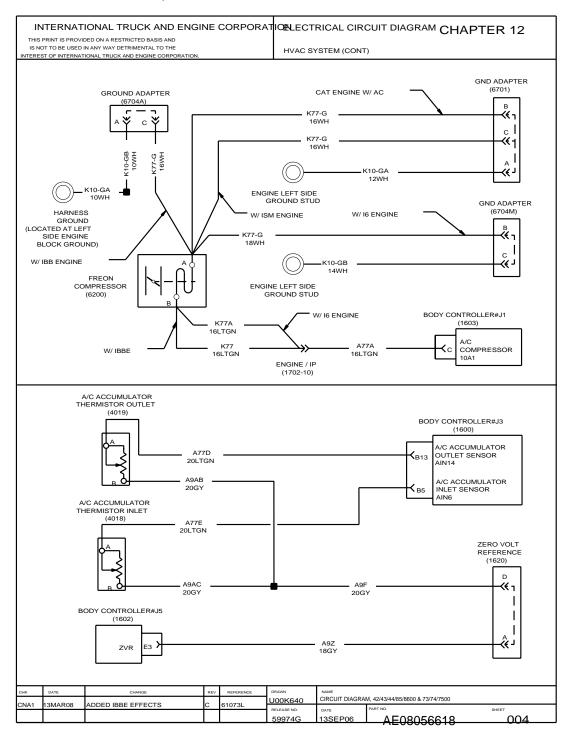


Figure 227 HVAC System (Cont.)

12.5. HVAC SYSTEM, P. 5

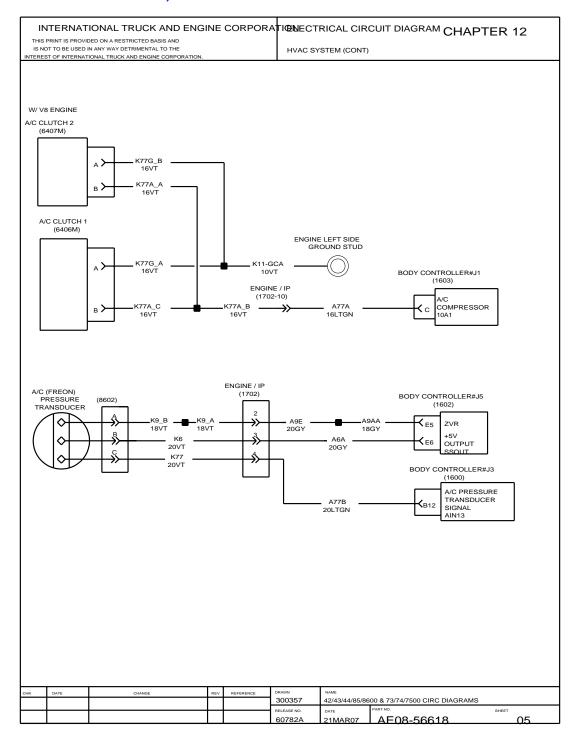


Figure 228 HVAC System (Cont.)

12.6. AUTOTHERM SYSTEM, P. 6

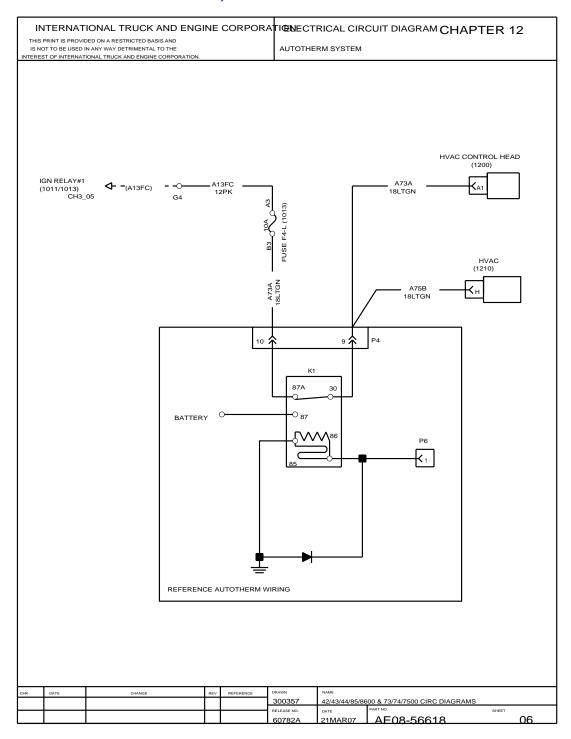


Figure 229 Autotherm System