

SERVICE MANUAL

SERVICE MANUAL SECTION

**ProStar™ Chassis Built January, 2007 and After — ELECTRICAL CIRCUIT
DIAGRAMS**

**Model: ProStar
Start Date: 01/15/2007**

S08302

05/15/2008

Table of Contents

1. TABLE OF CONTENTS (CHAPTER 1).....	1
2. INSTRUCTIONS AND CHARTS (CHAPTER 2).....	1
2.1. ABBREVIATIONS, P. 1.....	1
2.2. ACRONYMS, P. 2.....	2
2.3. CIRCUIT DIAGRAM INSTRUCTIONS, P. 3.....	3
2.4. CIRCUIT NUMBER IDENTIFICATION AND COLOR, P. 4.....	4
2.5. CIRCUIT NUMBER IDENTIFICATION AND COLOR (CONT.), P. 5.....	5
2.6. CIRCUIT NUMBER IDENTIFICATION AND COLOR (CONT.), P. 6.....	6
2.7. LAMP BULB CHART, P. 7.....	7
2.8. RELAY FUNCTION AND WIRING GUIDE, P. 8.....	8
2.9. SCHEMATIC SYMBOL CHART, P. 9.....	9
2.10. SCHEMATIC SYMBOL CHART (CONT.), P. 10.....	10
2.11. SCHEMATIC SYMBOL CHART (CONT.), P. 11.....	11
2.12. SCHEMATIC SYMBOL CHART (CONT.), P. 12.....	12
3. 12 VOLT POWER DISTRIBUTION CIRCUIT DIAGRAMS (CHAPTER 3).....	13
3.1. BATTERY FEED, P. 1.....	13
3.2. BATTERY FEED (CONT.), P. 2.....	14
3.3. BATTERY FEED (CONT.), P. 3.....	15
3.4. BATTERY FEED (CONT.), P. 4.....	16
3.5. BLANK PAGE, P. 5.....	17
3.6. BLANK PAGE, P. 6.....	18
3.7. IGNITION FEED — STANDARD AND REMOTE START/STOP, P. 7.....	19
3.8. IGNITION FEED — ICON, P. 8.....	20
3.9. IGNITION FEED — STANDARD, P. 9.....	21
3.10. ACCESSORY FEED, P. 10.....	22
3.11. CAB J1939 COMPASS AND ABS EFFECTS, P. 11.....	23
3.12. CAB J1939 WITH ALL OPTIONS, P. 12.....	24
3.13. CAB J1939 WITH ALL OPTIONS, P. 13.....	25
3.14. CAB J1939 WITH ALL OPTIONS, P. 14.....	26
3.15. J1939 ENGINE, P. 15.....	27
3.16. J1939 CHASSIS, P. 16.....	28
3.17. J1939 WITH SLEEPER, P. 17.....	29
3.18. J1708 PRIVATE, P. 18.....	30
3.19. J1708 PUBLIC, P. 19.....	31
3.20. J1708 PUBLIC, P. 20.....	32
3.21. J1708 PUBLIC, P. 20A.....	33
3.22. GROUND — CAB, P. 21.....	34
3.23. GROUND — CAB, P. 22.....	35
3.24. GROUND — CAB, P. 23.....	36
3.25. GROUND — CAB, P. 24.....	37
3.26. GROUND — CAB, P. 25.....	38
3.27. GROUND — CAB, P. 26.....	39
3.28. GROUND — CHASSIS, P. 27.....	40
3.29. GROUND — SLEEPER, P. 28.....	41
3.30. GROUND — SLEEPER, P. 29.....	42

3.31. ENGINE GROUND — IBB ENGINE, P. 30.....	43
3.32. J1939 DATA LINK — IBB ENGINE, P. 31.....	44
4. CAB ACCESSORIES (CHAPTER 4).....	45
4.1. CB POWER RADIO, P. 1.....	45
4.2. CIGAR LIGHTER AND TEMPERATURE DISPLAY, P. 2.....	46
4.3. ELECTRIC WINDOWS AND DOOR LOCKS, P. 3.....	47
4.4. ELECTRIC HORN, P. 4.....	48
4.5. MIRRORS HEATED AND LIGHTED, P. 5.....	49
4.6. MIRRORS HEATED AND LIGHTED, P. 6.....	50
4.7. TELEMATICS, P. 7.....	51
4.8. SATELLITE COMMUNICATION SYSTEM — QUALCOMM TMCT DAYCAB, P. 8.....	52
4.9. SATELLITE COMMUNICATION SYSTEM — QUALCOMM TMCT DAYCAB, P. 9.....	53
4.10. SATELLITE COMMUNICATION SYSTEM — QUALCOMM TMCT SLEEPER, P. 10.....	54
4.11. SATELLITE COMMUNICATION SYSTEM — QUALCOMM TMCT SLEEPER, P. 11.....	55
4.12. SATELLITE COMMUNICATION SYSTEM — QUALCOMM IMCT, P. 12.....	56
4.13. SATELLITE COMMUNICATION SYSTEM — QUALCOMM IMCT, P. 13.....	57
4.14. QUALCOMM IMCT — SLEEPER, P. 14.....	58
4.15. PANIC BUTTON, P. 15.....	59
4.16. SATELLITE COMMUNICATION SYSTEM — XATA WITH DAYCAB, P. 16.....	60
4.17. SATELLITE COMMUNICATION SYSTEM — XATA WITH SLEEPER, P. 17.....	61
4.18. RADIO ENTERTAINMENT, SPEAKERS, P. 18.....	62
4.19. RADIO ENTERTAINMENT, SPEAKERS, P. 18A.....	63
4.20. RADIO ENTERTAINMENT, SPEAKERS, P. 19.....	64
4.21. SWITCH PACK, P. 20.....	65
4.22. WINDSHIELD WIPER MOTOR, P. 21.....	66
4.23. WINDSHIELD WASHER PUMP, P. 22.....	67
4.24. DRIVER DISPLAY — VEHICLE INFORMATION, P. 23.....	68
4.25. BLANK PAGE, P. 24.....	69
4.26. BLANK PAGE, P. 25.....	70
4.27. DOOR SWITCHES — DOME LAMP, P. 26.....	71
4.28. SPARE SWITCH — FOR SINGLE CUSTOMER ACCESSORY, P. 27.....	72
4.29. SPARE SWITCH — FOR DUAL CUSTOMER ACCESSORY, P. 28.....	73
4.30. EATON VORAD EVT-300 SYSTEM, P. 29.....	74
4.31. EATON VORAD EVT-300 SYSTEM, P. 30.....	75
4.32. EATON VORAD VS-400, P. 31.....	76
4.33. AWARE II, P. 32.....	77
4.34. AWARE II, P. 33.....	78
4.35. AWARE II, P. 34.....	79
4.36. AWARE II, P. 35.....	80
4.37. AWARE II, P. 36.....	81
4.38. QUALCOMM OMNIVISION, P. 37.....	82
4.39. QUALCOMM OMNIVISION, P. 38.....	83
4.40. MOTIENT MOBILE MAX, P. 39.....	84
4.41. REMOTE RADIO, P. 40.....	85
5. CHARGING AND CRANKING SYSTEM (CHAPTER 5).....	86
5.1. MANUAL TRANSMISSION, P. 1.....	86
5.2. AUTOMATIC TRANSMISSION, P. 2.....	87
5.3. FREEDOMLINE TRANSMISSION, P. 3.....	88
6. ETHER START AND FAN WIRING (CHAPTER 6).....	89
6.1. ETHER START CUMMINS ISX, P. 1.....	89

6.2. FAN WIRING CUMMINS ISX, P. 2.....	90
7. ENGINES (CHAPTER 7).....	91
7.1. ELECTRONIC ENGINE CONTROLS, P. 1.....	91
7.2. ELECTRONIC ENGINE CONTROLS — CUMMINS ENGINE, P. 2.....	92
7.3. ELECTRONIC ENGINE CONTROLS — CUMMINS ENGINE, P. 3.....	93
7.4. ELECTRONIC ENGINE CONTROLS WITH ICON, P. 4.....	94
7.5. ELECTRONIC ENGINE CONTROLS WITH ICON, P. 5.....	95
7.6. ELECTRONIC ENGINE CONTROLS WITH ICON, P. 6.....	96
7.7. REMOTE START/STOP, P. 7.....	97
7.8. REMOTE START/STOP, P. 8.....	98
7.9. NO IDLE ENGINE HEAT, P. 9.....	99
7.10. TRI-PAC NO IDLE, P. 10.....	100
7.11. ELECTRONIC ENGINE CONTROLS (IBB ENGINE), P. 11.....	101
7.12. ELECTRONIC ENGINE CONTROLS (IBB ENGINE), P. 12.....	102
7.13. ELECTRONIC ENGINE CONTROLS (IBB ENGINE), P. 13.....	103
7.14. ELECTRONIC ENGINE CONTROLS (IBB ENGINE), P. 14.....	104
7.15. ELECTRONIC ENGINE CONTROLS (IBB ENGINE), P. 15.....	105
7.16. AFTERTREATMENT (IBB ENGINE), P. 16.....	106
8. GAUGES AND WARNING LIGHTS (CHAPTER 8).....	107
8.1. AIR PRESSURE INPUT CIRCUIT AND AIR RESTRICTION GAUGE, P. 1.....	107
8.2. AXLE TEMPERATURE GAUGES, P. 2.....	108
8.3. ENGINE OIL PRESSURE AND TEMPERATURE, SPEEDOMETER, TACHOMETER, VOLTMETER AND WATER TEMP. GAUGES, P. 3.....	109
8.4. ENGINE OIL AND TRANSMISSION OIL TEMPERATURE GAUGES, P. 4.....	110
8.5. FUEL HEATER, P. 5.....	111
8.6. FUEL TRANSFER PUMP FOR DUAL TANK, P. 6.....	112
8.7. DIFFERENTIAL LOCK AND OPTIONAL INDICATOR, P. 7.....	113
8.8. DIFFERENTIAL LOCK AND OPTIONAL INDICATOR, P. 8.....	114
8.9. BLANK PAGE, P. 9.....	115
8.10. IP / GAUGES, P. 10.....	116
8.11. IP / GAUGES AND WARNING LIGHTS — GAUGE CLUSTER, P. 11.....	117
8.12. SECONDARY INSTRUMENT CLUSTER, P. 12.....	118
8.13. PARKING WARNING LIGHT, P. 13.....	119
8.14. WARNING LIGHTS, P. 14.....	120
8.15. IP TEXT MESSAGES AND WARNING LIGHTS — CONTROLLED BY ENGINE, TRANSMISSION AND ABS CONTROLLER, P. 15.....	121
9. LIGHTING SYSTEM (CHAPTER 9).....	122
9.1. LIGHTS — STOP, TAIL, TURN AND BACK-UP N/FREEDOMLINE, P. 1.....	122
9.2. LIGHTS — STOP, TAIL, TURN AND BACK-UP W/FREEDOMLINE, P. 2.....	123
9.3. DOME/MAP AND COURTESY LIGHTS — DAY CAB, P. 3.....	124
9.4. DOME/MAP AND COURTESY LIGHTS — SLEEPER, P. 4.....	125
9.5. FOG LIGHTS AND SPOT LIGHT, P. 5.....	126
9.6. HEADLIGHTS, P. 6.....	127
9.7. TRIPMASTER, P. 7.....	128
9.8. TURN AND STOP SWITCH, P. 8.....	129
9.9. LIGHT SYSTEM — PARK, MARKER, CLEARANCE, ID, TURN, STOP, TAIL, P. 9.....	130
9.10. LIGHT SYSTEM — PARK, MARKER, FRONT TURN AND MODESTY PANEL LIGHT, P. 10.....	131
9.11. LIGHT SYSTEM — CLEARANCE, ID, P. 11.....	132
9.12. LIGHT SYSTEM — SKIRT LIGHT, P. 12.....	133

9.13. TRAILER LIGHT SYSTEM — MARKER, STOP, TAIL, TURN, P. 13.....	134
9.14. TRAILER SOCKET — BOC, P. 14.....	135
9.15. TRAILER SOCKET — BOC AND EOF, P. 15.....	136
9.16. TRAILER SOCKET — AUXILIARY, P. 16.....	137
9.17. FLOOR LIGHT, P. 17.....	138
9.18. DOME AND ACCENT LIGHT — SLEEPER, P. 18.....	139
9.19. DOME AND ACCENT LIGHT — SLEEPER, P. 19.....	140
9.20. LIGHTED AIR SHIELD, P. 20.....	141
9.21. PANEL LIGHTS, P. 21.....	142
9.22. WORK LIGHTS — DAY CAB, P. 22.....	143
9.23. WORK LIGHTS — SLEEPER CAB, P. 23.....	144
10. CHASSIS ACCESSORIES (CHAPTER 10).....	145
10.1. TIRE PRESSURE MONITOR, P. 1.....	145
10.2. AIR DRYER, P. 2.....	146
10.3. AIR SOLENOID PACK — 4 WAY, P. 3.....	147
10.4. AIR SOLENOID PACK — 4 WAY, P. 4.....	148
10.5. AIR SUSPENSION W/LOAD INDICATOR, P. 5.....	149
10.6. BATTERY FEED — TRAILER AUXILIARY, P. 6.....	150
10.7. ANTILOCK BRAKE SYSTEM W/BENDIX, P. 7.....	151
10.8. ANTILOCK BRAKE SYSTEM W/BENDIX, P. 8.....	152
10.9. ANTILOCK BRAKE SYSTEM W/BENDIX, P. 9.....	153
10.10. ANTILOCK BRAKE SYSTEM W/BENDIX, P. 10.....	154
10.11. ANTILOCK BRAKE SYSTEM W/BENDIX, P. 11.....	155
10.12. ANTILOCK BRAKE SYSTEM W/BENDIX, P. 12.....	156
10.13. ANTILOCK BRAKE SYSTEM W/WABCO, P. 13.....	157
10.14. ANTILOCK BRAKE SYSTEM W/WABCO, P. 14.....	158
10.15. ANTILOCK BRAKE SYSTEM W/WABCO, P. 15.....	159
10.16. ANTILOCK BRAKE SYSTEM W/WABCO, P. 16.....	160
10.17. BLANK PAGE, P. 17.....	161
10.18. POWER TAKE OFF, P. 18.....	162
10.19. BLANK PAGE, P. 19.....	163
10.20. VEHICLE SENSOR MODULE, P. 20.....	164
10.21. VEHICLE SENSOR MODULE, P. 21.....	165
10.22. BRAKE SENSOR — WEAR/STROKE, P. 22.....	166
10.23. BRAKE SENSOR — WEAR/STROKE, P. 23.....	167
11. TRANSMISSION CONTROL MODULE (CHAPTER 11).....	168
11.1. EATON AUTOSHIFT AND ULTRASHIFT TRANSMISSION, P. 1.....	168
11.2. COLUMN SHIFTER AND MERITOR G TRANSMISSION, P. 2.....	169
11.3. FREEDOMLINE TRANSMISSION, P. 3.....	170
12. HVAC (CHAPTER 12).....	171
12.1. AIR CONDITIONING, P. 1.....	171
12.2. HVAC SYSTEM — CAB, P. 2.....	172
12.3. HVAC SYSTEM — CAB, P. 3.....	173
12.4. HVAC SYSTEM — SLEEPER, P. 4.....	174
12.5. HVAC SYSTEM — SLEEPER, P. 5.....	175
12.6. AIR CONDITIONING WITH NO IDLE HEAT, P. 6.....	176
12.7. HVAC SYSTEM WITH NO IDLE HEAT — CAB, P. 7.....	177
12.8. HVAC SYSTEM WITH NO IDLE HEAT — SLEEPER, P. 8.....	178
12.9. NO IDLE HEAT AND HVAC — POWER SUPPLY, P. 9.....	179
12.10. NO IDLE HEAT AND HVAC — HEAT VALVE, LPM AND BLEND MOTOR, P. 10.....	180

12.11. NO IDLE HEAT AND HVAC — FUEL FIRED HEATER AND A/C COMPRESSOR, P. 11....	181
13. BUNK LIGHTS AND ACCESSORIES (CHAPTER 13).....	182
13.1. READING AND WARDROBE LIGHTS — BUNK, P. 1.....	182
13.2. LUGGAGE COMPARTMENT LIGHTS — BUNK, P. 2.....	183
13.3. POWER SOURCE — BUNK, P. 3.....	184
13.4. TV / REFRIGERATOR WIRING, P. 4.....	185
13.5. SPEAKER — BUNK, P. 5.....	186
13.6. FAN — BUNK, P. 6.....	187
13.7. SKY RISE LIGHTS — BUNK, P. 7.....	188
13.8. TV/DVD, P. 8.....	189
14. CONNECTOR COMPOSITES (CHAPTER 14).....	190
14.1. CONNECTOR COMPOSITES (7A), (8A), (9A), (10A), (11A), (12A), P. 1.....	190
14.2. CONNECTOR COMPOSITES (10F), (345), (512), (520), P. 1A.....	191
14.3. CONNECTOR COMPOSITES (521), (522), (523), (524), P. 2.....	192
14.4. CONNECTOR COMPOSITES (1002), (1003), P. 3.....	193
14.5. CONNECTOR COMPOSITES (1006), (1007), (1010), (1015), P. 4.....	194
14.6. CONNECTOR COMPOSITE (1010), P. 5.....	195
14.7. CONNECTOR COMPOSITE (1011), P. 6.....	196
14.8. CONNECTOR COMPOSITE (1012), P. 7.....	197
14.9. CONNECTOR COMPOSITE (1013), P. 8.....	198
14.10. CONNECTOR COMPOSITE (1014), P. 9.....	199
14.11. CONNECTOR COMPOSITE (1015), P. 10.....	200
14.12. CONNECTOR COMPOSITE (1016), P. 11.....	201
14.13. CONNECTOR COMPOSITE (1017), P. 12.....	202
14.14. CONNECTOR COMPOSITE (1018), P. 13.....	203
14.15. CONNECTOR COMPOSITE (1019), P. 14.....	204
14.16. CONNECTOR COMPOSITE (1020), P. 15.....	205
14.17. CONNECTOR COMPOSITES (1023), (1024), (1025), P. 16.....	206
14.18. CONNECTOR COMPOSITES (1026), (1100M), (1101M), (1110M), P. 17.....	207
14.19. CONNECTOR COMPOSITES (1111M), (1112M), (1113M), P. 18.....	208
14.20. CONNECTOR COMPOSITES (1114M), (1115M), (1200), P. 19.....	209
14.21. CONNECTOR COMPOSITES (1210), (1215), (1300), P. 20.....	210
14.22. CONNECTOR COMPOSITES (1301), (1305), (1378), P. 21.....	211
14.23. CONNECTOR COMPOSITES (1400), (1401), (1402), P. 22.....	212
14.24. CONNECTOR COMPOSITES (1403), (1410), (1420), P. 23.....	213
14.25. CONNECTOR COMPOSITES (1421), (1422), (1500), (1501), P. 24.....	214
14.26. CONNECTOR COMPOSITES (1502), (1510), P. 25.....	215
14.27. CONNECTOR COMPOSITES (1511), (1550), P. 26.....	216
14.28. CONNECTOR COMPOSITES (1600), P. 27.....	217
14.29. CONNECTOR COMPOSITE (1601), P. 28.....	218
14.30. CONNECTOR COMPOSITE (1602), P. 29.....	219
14.31. CONNECTOR COMPOSITES (1603), (1604), P. 30.....	220
14.32. CONNECTOR COMPOSITES (1620), (1650), (1657), P. 31.....	221
14.33. CONNECTOR COMPOSITES (1660), (1661), P. 32.....	222
14.34. CONNECTOR COMPOSITE (1700), P. 33.....	223
14.35. CONNECTOR COMPOSITE (1700), P. 34.....	224
14.36. CONNECTOR COMPOSITE (1701), P. 35.....	225
14.37. CONNECTOR COMPOSITE (1701), P. 36.....	226
14.38. CONNECTOR COMPOSITE (1702), P. 37.....	227
14.39. CONNECTOR COMPOSITE (1702), P. 38.....	228
14.40. CONNECTOR COMPOSITE (1800), P. 39.....	229

14.41. CONNECTOR COMPOSITE (1800), P. 40.....	230
14.42. CONNECTOR COMPOSITES (1801), (1802), (1803), P. 41.....	231
14.43. CONNECTOR COMPOSITES (1804), (1805), (1806), P. 42.....	232
14.44. CONNECTOR COMPOSITES (1808), (1809), (1810), P. 43.....	233
14.45. CONNECTOR COMPOSITES (1811), (1812), (1820), P. 44.....	234
14.46. CONNECTOR COMPOSITES (1821), (1822), (1823), (1860), P. 45.....	235
14.47. CONNECTOR COMPOSITES (1861), (1901), (1903), P. 46.....	236
14.48. CONNECTOR COMPOSITES (1906), (1907), (1910), (1912), (1916), P. 47.....	237
14.49. CONNECTOR COMPOSITES (1917), (1918), (1919), (1920), (1922), (1923), P. 48.....	238
14.50. CONNECTOR COMPOSITES (1925), P. 49.....	239
14.51. CONNECTOR COMPOSITES (1927), (1929), (1930), (1931), P. 50.....	240
14.52. CONNECTOR COMPOSITES (1932), (1933), (1942), (1943), P. 50A.....	241
14.53. CONNECTOR COMPOSITES (1960), P. 51.....	242
14.54. CONNECTOR COMPOSITES (1960), P. 52.....	243
14.55. CONNECTOR COMPOSITES (1962), P. 53.....	244
14.56. CONNECTOR COMPOSITES (1962), P. 54.....	245
14.57. CONNECTOR COMPOSITES (1963), (1964), P. 55.....	246
14.58. CONNECTOR COMPOSITES (1970), (1973), P. 56.....	247
14.59. CONNECTOR COMPOSITES (1974), (1975), P. 56A.....	248
14.60. CONNECTOR COMPOSITES (2000), P. 56B.....	249
14.61. CONNECTOR COMPOSITES (2002M), (2003M), (2004M), (2005M), (2006M), P. 57.....	250
14.62. CONNECTOR COMPOSITES (2100), (2101), (2102), (2103), P. 58.....	251
14.63. CONNECTOR COMPOSITES (2200), (2201), (2300), P. 59.....	252
14.64. CONNECTOR COMPOSITES (2301), (2303), P. 60.....	253
14.65. CONNECTOR COMPOSITES (2500), P. 61.....	254
14.66. CONNECTOR COMPOSITES (3000), (3003), (3100), P. 62.....	255
14.67. CONNECTOR COMPOSITES (3200), (3201M), (3202M), (3203), P. 63.....	256
14.68. CONNECTOR COMPOSITES (3204), (3205), (3206), (3300), (3400), (3410), P. 64.....	257
14.69. CONNECTOR COMPOSITES (4101), (4200), (4201), (4202), (4203), (4204), P. 65.....	258
14.70. CONNECTOR COMPOSITES (4328), (4500), (4705), (4706), P. 65A.....	259
14.71. CONNECTOR COMPOSITES (5000), P. 66.....	260
14.72. CONNECTOR COMPOSITES (5000), P. 67.....	261
14.73. CONNECTOR COMPOSITES (5001), P. 68.....	262
14.74. CONNECTOR COMPOSITES (5003), (5005), (5006), (5007), P. 69.....	263
14.75. CONNECTOR COMPOSITES (5009), (5010), (5011), P. 69A.....	264
14.76. CONNECTOR COMPOSITES (5012), (5013), (5015), (5031), (5033), P. 70.....	265
14.77. CONNECTOR COMPOSITES (5034), (5035/5035A), (5100), (5101), P. 70A.....	266
14.78. CONNECTOR COMPOSITES (5102), (5103), (5104), (5105), P. 71.....	267
14.79. CONNECTOR COMPOSITES (5106), (5107), (5109), (5110), (5111), P. 72.....	268
14.80. CONNECTOR COMPOSITES (5117), (5118), (5119), P. 73.....	269
14.81. CONNECTOR COMPOSITES (5124), (5125), P. 74.....	270
14.82. CONNECTOR COMPOSITES (5126), (5128), (5129), (5130), P. 75.....	271
14.83. CONNECTOR COMPOSITES (5131), (5134), (5135M), (5136), (5200), (5201), P. 76.....	272
14.84. CONNECTOR COMPOSITES (5202), (5210), (5212), (5213), (5214), P. 77.....	273
14.85. CONNECTOR COMPOSITES (5215), (5216), (5217), (5218), (5219), P. 78.....	274
14.86. CONNECTOR COMPOSITES (5220), (5222), (5230), P. 78A.....	275
14.87. CONNECTOR COMPOSITES (5232), (5233), (5234), P. 79.....	276
14.88. CONNECTOR COMPOSITES (5300), (5301), (5302), (5303), P. 79A.....	277
14.89. CONNECTOR COMPOSITES (5312), (5313), (5314), (5500), (5600), P. 80.....	278
14.90. CONNECTOR COMPOSITES (5700), (5701), (5702), (5752), P. 81.....	279
14.91. CONNECTOR COMPOSITES (5753), (5754), (5757), (5900), (5902), (5903), P. 82.....	280
14.92. CONNECTOR COMPOSITES (5927), (5930M), (5940), P. 83.....	281
14.93. CONNECTOR COMPOSITES (5904), (5905), P. 83A.....	282

14.94. CONNECTOR COMPOSITE (6000), P. 84.....	283
14.95. CONNECTOR COMPOSITES (6001), (6018), (6019), P. 85.....	284
14.96. CONNECTOR COMPOSITES (6020), (6021), (6033), P. 85A.....	285
14.97. CONNECTOR COMPOSITES (6200), (6201), (6202), (6260VH), (6260VL), (6260VM), (6304), (6316M), P. 85B.....	286
14.98. CONNECTOR COMPOSITES (6400), (6401), (6402), (6403), (6406), (6420), P. 86.....	287
14.99. CONNECTOR COMPOSITES (6550), (6551), (6561), (6700), (6701), (6702), (6703), P. 86A.....	288
14.100. CONNECTOR COMPOSITES (6703/6703A), (6704), (6704A), (6705), (6706), P. 87.....	289
14.101. CONNECTOR COMPOSITES (6706), (6707), (6712), (6713), (6715), P. 88.....	290
14.102. CONNECTOR COMPOSITES (6720/6721), (6730), (6731), P. 88A.....	291
14.103. CONNECTOR COMPOSITES (6732), (7103), (7104), P. 89.....	292
14.104. CONNECTOR COMPOSITES (7105), (7107/7110), (7111), (7500/7500A), P. 90.....	293
14.105. CONNECTOR COMPOSITES (7500W), (7600), (7600/7600A), (7700), (7802), (7905), P. 91.....	294
14.106. CONNECTOR COMPOSITES (8000), (8001), P. 92.....	295
14.107. CONNECTOR COMPOSITES (8006R), (8006T), (8050), (8051), (8052), (8053), P. 93.....	296
14.108. CONNECTOR COMPOSITES (8100), (8100A), (8100B), (8101), (8101A), (8101B), (8103), (8165), P. 94.....	297
14.109. CONNECTOR COMPOSITES (8166), (8166T), (8200), (8201), P. 95.....	298
14.110. CONNECTOR COMPOSITES (8303), (8310), (8311), (8312), P. 96.....	299
14.111. CONNECTOR COMPOSITES (8350), (8351), (8410), (8450), P. 97.....	300
14.112. CONNECTOR COMPOSITES (8450A), (8450B), (8451), (8453), (8454), (8455), (8456), (8500), P. 98.....	301
14.113. CONNECTOR COMPOSITES (8501), (8502), (8503), (8504), P. 99.....	302
14.114. CONNECTOR COMPOSITES (8505), (8506), (8507), (8550), P. 100.....	303
14.115. CONNECTOR COMPOSITES (8601), (8750), (8800), (8802), P. 101.....	304
14.116. CONNECTOR COMPOSITES (8803), (8804), (8805), (8806), P. 102.....	305
14.117. CONNECTOR COMPOSITES (8900), (8901), (8950), (8951), P. 103.....	306
14.118. CONNECTOR COMPOSITES (8952), (8953/8954M), P. 104.....	307
14.119. CONNECTOR COMPOSITES (8954), (8960), (8961), (8962), P. 105.....	308
14.120. CONNECTOR COMPOSITES (8963), (8964), (8965), (8966), (8967), P. 106.....	309
14.121. CONNECTOR COMPOSITES (8970), (8971), (8972), (8973), P. 107.....	310
14.122. CONNECTOR COMPOSITES (8974), (8975), (8976), (8977), P. 108.....	311
14.123. CONNECTOR COMPOSITES (8980), (8981), (8982), P. 109.....	312
14.124. CONNECTOR COMPOSITES (8990), (9100), (9102), P. 110.....	313
14.125. CONNECTOR COMPOSITES (9103), (9303), (9304), P. 111.....	314
14.126. CONNECTOR COMPOSITES (9501), (9502), (9503), (9504), P. 112.....	315
14.127. CONNECTOR COMPOSITES (9505), (9506), (9507), (9508), (9509), P. 113.....	316
14.128. CONNECTOR COMPOSITES (9510), (9510F), (9510M), P. 114.....	317
14.129. CONNECTOR COMPOSITES (9511), (9512), (9513), (9514), (9515), P. 115.....	318
14.130. CONNECTOR COMPOSITES (9635), (9715), P. 116.....	319
14.131. CONNECTOR COMPOSITES (9716), (9718), P. 117.....	320
14.132. CONNECTOR COMPOSITES (9736), (9737), (9738), (9768), (9769), P. 118.....	321
14.133. CONNECTOR COMPOSITES (9770), (9779), P. 119.....	322
14.134. CONNECTOR COMPOSITES (9780), (9781F), (9782M), (9783F), (9784M), P. 120.....	323
14.135. CONNECTOR COMPOSITES (9789), (9790), P. 121.....	324
14.136. CONNECTOR COMPOSITES (9800), P. 122.....	325
14.137. CONNECTOR COMPOSITES (9801), P. 123.....	326
14.138. CONNECTOR COMPOSITES (9811), (9812), (9813), P. 124.....	327
14.139. CONNECTOR COMPOSITES (9814), (9815), (9816), P. 125.....	328
14.140. CONNECTOR COMPOSITES (9830/9832), (9865), P. 126.....	329
14.141. CONNECTOR COMPOSITES (9900), (9901), (9902), P. 127.....	330

1. TABLE OF CONTENTS (CHAPTER 1)

2. INSTRUCTIONS AND CHARTS (CHAPTER 2)

2.1. ABBREVIATIONS, P. 1

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

CHG	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	PROSTAR CIRCUIT DIAGRAM		
CNA	2MAY07	ADDED AFTR, ID AND	A	60773Y	U00K640		RELEASE NO.	DATE	PART NO.
		INT			59637L	31AUG06	AE08 - 55894		01

Figure 1 Abbreviations

2.2. ACRONYMS, P. 2

INTERNATIONAL TRUCK AND ENGINE CORPORATION		ELECTRICAL CIRCUIT DIAGRAM		CHAPTER 2
		ACRONYMS		
ANTILOCK BRAKING SYSTEM	ABS	INJECTOR DRIVE MODULE	IDM	
ANTENNA COMMUNICATION UNIT	ACU	INPUT/OUTPUT	I / O	
ALTERNATING CURRENT	AC	INTEGRATED MOBILE COMMUNICATIONS TERMINAL	IMCT	
AXLE TO BACK OF CAB	AC	INSTRUMENT PANEL	I/P	
AXLE TO FRAME	AF	INDEPENDENT POWER TAKE-OFF	IPTO	
ACCELERATOR PEDAL MODULE	APM	LIGHT COMMERCIAL TRANSMISSION	LCT	
ACCELERATOR POSITION SENSOR	APS	MEDIUM DUTY	MD	
AUXILIARY POWER UNIT	APU	MALFUNCTION INDICATION LAMP	MIL	
AUTOMATIC TRACTION CONTROL	ATC	MULTIPLEX SWITCH MODULE	MSM	
AUDIO VIDEO INTERFACE	AVI	PYROMETER AMMETER MODULE	PAM	
BRAKE HORSEPOWER	BHP	PROGRAMMABLE LOGIC CONTROLLER	PLC	
BACK OF CAB	BOC	POWER TAKE-OFF	PTO	
CITIZEN BAND	CB	PULSE WIDTH MODULATION	PWM	
COLD CRANKING AMPERES	CCA	REAR AXLE	RA	
CLEAN POWER ELECTRICAL CONNECTOR	CEC	RADIO FREQUENCY	RF	
CAB OVER ENGINE	COE	ROLL STABILITY PROGRAMM	RSP	
DIRECT CURRENT	DC	SEVERE SERVICE	SS	
DRIVER CONTROL MODULE	DCM	TRANSMISSION CONTROL MODULE	TCM	
DIGITAL DATA LINK	DDL	TERRESTRIAL COMMUNICATION UNIT	TCU	
DIESEL OXIDATION CATALYST INLET TEMPERATURE	DOCT	TERRESTRIAL MOBILE COMMUNICATIONS TERMINAL	TMCT	
DIESEL PARTICULATE FILTER	DPF	THERMAL OVERCRANK PROTECTION	TOCP	
DIESEL TURBOCHARGED	DT	THROTTLE POSITION SENSOR	TPS	
DAY TIME RUNNING LIGHTS	DTRL	ZERO VOLT REFERENCE	ZVR	
ELECTRONIC CONTROL MODULE	ECM			
ELECTRONIC CONTROL UNIT	ECU			
EXHAUST GAS RECIRCULATION	EGR			
EXHAUST GAS TEMPERATURE	EGT			
ELECTRO MAGNETIC INTERFACE	EMI			
END OF FRAME	EOF			
ELECTRIC TRAILER BRAKE	ETB			
FRONT AXLE	FA			
FRONT END	FE			
FRONT OF DASH	FOD			
FULL POWER BRAKE	FPB			
GLOBAL POSITIONING SYSTEM	GPS			
HYDRAULIC CONTROL UNIT	HCU			
HEAVY DUTY	HD			
HEAVY DUTY DIESEL	HDD			
HIGH PERFORMANCE TRUCK	HPT			
HEATING, VENTILATION, AND AIR CONDITIONING	HVAC			
C/N# DATE CHANGE REV REFERENCE DRAWN NAME				
CNA 2MA DCM,	ADDED IMCT, TMCT & HVAC	IP, ACU, TCU, RSP I / O	A 60773Y	U00K640 PROSTAR CIRCUIT DIAGRAM
			RELEASE NO. 59637L	DATE 31AUG06 PART NO. AE08-55894 SHEET 02

Figure 2 Acronyms

2.3. CIRCUIT DIAGRAM INSTRUCTIONS, P. 3

INTERNATIONAL TRUCK AND ENGINE CORPORATION		ELECTRICAL CIRCUIT DIAGRAM		CHAPTER 2																													
THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DEDIMENTIAL TO THE INTEREST OF INTERNATIONAL TRUCK AND ENGINE CORPORATION.		CIRCUIT DIAGRAM INSTRUCTIONS																															
A - SWITCH AND RELAY POSITIONS AS SHOWN ON CIRCUIT DIAGRAMS INDICATE NORMAL POSITION WITH IGNITION OFF UNLESS OTHERWISE NOTED.		B - MULTIPLE CONNECTIONS ARE DISPLAYED ON SCHEMATIC AS SHOWN WITH R/D NUMBER & CAVITY NUMBER. REFER TO CONNECTOR COMPOSITE FOR MORE INFORMATION																															
		 SINGLE IN-LINE CONNECTORS DISPLAYED AS SHOWN BELOW WITHOUT R/D NUMBER																															
C - PHANTOM LINES INDICATE PRINTED CIRCUITS OR BUSSSED CIRCUITS. THESE CIRCUITS EXIST IN THE INSTRUMENT CLUSTER AND FUSE / CIRCUIT BREAKER CONNECTORS.																																	
		 LOCATION / CIRCUIT NUMBER WIRE GAUGE / WIRE COLOR																															
D - MULTIPLE CIRCUIT NUMBERS ON A LINE INDICATE ONE CIRCUIT DISTRIBUTING CURRENT TO TWO CIRCUITS.																																	
 SPLICE																																	
E - SWITCHES, RELAYS AND COMPONENTS INDICATE EXTERNAL WIRE CONNECTIONS AND / OR INTERNAL CONNECTIONS OR CONTACTS.																																	
		 WIRE CONNECTION BUSSED CONTACT PIGTAIL BODY CONTROLLER (11602)																															
F - CIRCUIT "G" DENOTES ANY COMMON GROUND (MORE THAN ONE CIRCUIT). ANY INDIVIDUAL GROUND CIRCUIT IS IDENTIFIED WITH THAT PARTICULAR CIRCUIT NUMBER. I.E.G. CIRCUIT 32 CRUISE CONTROL IS IDENTIFIED AS PER EXAMPLE																																	
		 COMMON GROUND CIRCUIT NUMBER SUFFIX BEGINNING WITH G INDICATES A GROUND CIRCUIT																															
 NOTE: FOR CIRCUIT DESCRIPTION OTHER THAN GROUNDS NEITHER THE LETTER "G" NOR THE COLOR WHITE SHALL BE USED																																	
<table border="1"> <thead> <tr> <th>CHG</th> <th>DATE</th> <th>CHANGE</th> <th>REV</th> <th>REFERENCE</th> <th>DRAWN</th> <th>NAME</th> </tr> </thead> <tbody> <tr> <td>CNA</td> <td>2MAY07</td> <td>CORRECTED TYPOF</td> <td>A</td> <td>60773Y</td> <td>U00K640</td> <td>PROSTAR CIRCUIT DIAGRAM</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>RELEASE NO. 59637L</td> <td>DATE 31AUG06</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>PART NO. AE08-55894</td> <td>SHEET 03</td> </tr> </tbody> </table>						CHG	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	CNA	2MAY07	CORRECTED TYPOF	A	60773Y	U00K640	PROSTAR CIRCUIT DIAGRAM						RELEASE NO. 59637L	DATE 31AUG06						PART NO. AE08-55894	SHEET 03
CHG	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME																											
CNA	2MAY07	CORRECTED TYPOF	A	60773Y	U00K640	PROSTAR CIRCUIT DIAGRAM																											
					RELEASE NO. 59637L	DATE 31AUG06																											
					PART NO. AE08-55894	SHEET 03																											

Figure 3 Circuit Diagram Instructions

2.4. CIRCUIT NUMBER IDENTIFICATION AND COLOR, P. 4

INTERNATIONAL TRUCK AND ENGINE CORPORATION		ELECTRICAL CIRCUIT DIAGRAM	CHAPTER 2
		CIRCUIT NUMBER IDENTIFICATION AND COLOR	
CIRCUIT NUMBER IDENTIFICATION AND COLOR			
CIRCUIT NUMBER	COLOR	DESCRIPTION	
1	LTBL	ALTERNATOR - FIELD	
2	RD	ALTERNATOR - CHARGE	
3	DKBL	SERIAL / DATA COMMUNICATION J1587 / J1708 (+)	
	GY	SERIAL / DATA COMMUNICATION J1587 / J1708 (-)	
4	DKBL	SERIAL / DATA COMMUNICATION J1922 (+)	
	GY	SERIAL / DATA COMMUNICATION J1922 (-)	
5	YL	SERIAL / DATA COMMUNICATION J1939/11 / J1939/15 (+)	
	GN	SERIAL / DATA COMMUNICATION J1939/11 / J1939/15 (-)	
6	GY	LOW VOLTAGE ELECTRONIC FEED (LESS THAN 9 VOLTS)	
7	RD	ALTERNATOR - RESISTANCE	
8			
9	GY	LOW VOLTAGE ELECTRONIC GROUND	
10	WH	CHASSIS / ENGINE GROUND	
11	WH	CAB / SLEEPER GROUND	
12	LTBL	ACCESSORY FEED	
13	PK	IGNITION FEED	
	BK	IGNITION FEED (BODY BUILDER CONNECTOR)	
14	RD	BATTERY FEED	
15	RD	KEY SWITCH FEED	
16			
17	PK	STARTER CONTROL	
18	PK	GLOW PLUG / PREHEATER	
19	GY	ENGINE SHUTDOWN	
20	LTGN	REMOTE POWER MODULE	
21	TN	COLD START CONTROLS (ETHER)	
22	TN	TIRE PRESSURE MONITORING / CONTROL	
23	TN	ENGINE FAN / SHUTTERS	
24	GY	ENGINE EXHAUST BRAKE	
25	TN	PYROMETER	
26	TN	AMMETER	
27	TN	VOLTMETER	
28	TN	INSTRUMENTS AND GAUGES	
29	TN	ENGINE WATER TEMPERATURE	
30	TN	ENGINE OIL TEMPERATURE	
31	TN	TRANSMISSION OIL TEMPERATURE	
32	TN	AXLE OIL TEMPERATURE	
33	TN	ENGINE OIL LEVEL	
34	TN	COOLANT LEVEL	
35	TN	ENGINE OIL PRESSURE	
36	TN	FUEL LEVEL	
37	TN	FUEL PUMP	
38	GY	LIFT AXLE	
39	GY	AIR DRYER HEATER	
40	GY	LOW AIR PRESSURE WARNING	

CHG	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
CNA	2MAY07	ADDED COLOR FOR	A	60773Y	U00K640	PROSTAR CIRCUIT DIAGRAM
		CIRCUIT 4			RELEASE NO. 59637L	DATE 31AUG06 PART NO. AE08-55894 SHEET 04

Figure 4 Circuit Number Identification and Color

2.5. CIRCUIT NUMBER IDENTIFICATION AND COLOR (CONT.), P. 5

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 CIRCUIT NUMBER IDENTIFICATION AND COLOR (CONT.)	CHAPTER 2
CIRCUIT NUMBER	COLOR	DESCRIPTION	
41	TN	AIR TEMPERATURE	
42	GY	FRONT AXLE ENGAGED	
43	GY	POWER DIVIDER LOCK (PDL) WARNING	
44	GY	PARK BRAKE WARNING	
45	LTGN	ANTI THEFT WARNING	
46	GY	POWER TAKEOFF WARNING	
47	GY	SPEEDOMETER	
48	GY	TACHOMETER	
49	GY	DIFFERENTIAL LOCK WARNING	
50	YL	LIGHT SWITCH FEED	
51	YL	DIMMER SWITCH FEED	
52	YL	HEADLIGHT HI - BEAM	
53	YL	HEADLIGHT LO - BEAM	
54	BN	PARKING / MARKER LIGHTS	
55	OR	TURN SIGNAL - FEED	
56	OR	TURN SIGNAL LIGHTS - LEFT	
	YL	TURN SIGNAL LIGHTS - LEFT (BODY BUILDER CONNECTION)	
57	OR	TURN SIGNAL LIGHTS - RIGHT	
	LTGN	TURN SIGNAL LIGHTS - RIGHT (BODY BUILDER CONNECTION)	
58	BN	CLEARANCE / IDENTIFICATION LIGHTS	
59	GY	SOLENOID	
60	OR	HAZARD LIGHTS	
61	GY	AIR SUSPENSION	
62	DKBL	PANEL LIGHTS	
63	DKBL	COURTESY / DOME LIGHTS	
64	YL	FOG / DRIVING LIGHTS	
65	OR	CAB REAR FLOOD LIGHTS	
66	YL	DAYTIME RUNNING LIGHT	
67	GY	OBSTACLE AVOIDANCE / REMOTE SENSOR	
68	BN	TAIL LIGHTS	
69	BN	LICENSE PLATE LIGHT	
70	OR	STOP LIGHTS	
	RD	STOP LIGHTS (BODY BUILDER CONNECTION)	
71	OR	BACKUP - LIGHTS	
	LTBL	BACKUP - LIGHTS (BODY BUILDER CONNECTION)	
72	OR	TRAILER AUXILIARY FEED - BATTERY	
73	LTGN	PWM	
74	LTGN	HEATER RECIRC MOTOR	
75	LTGN	HEATER BLOWER MOTOR	
76	LTGN	AUXILIARY FAN	
77	LTGN	AIR CONDITIONER	
78	LTGN	MIRRORS - HEATED, MOTORIZED	
79	GY	SEAT BELTS	
80	BK	SLEEPER BOX RELAY - FEED	

CHG	DATE	CHANGE	REV	REFERENCE	DRAWN U00K640	NAME PROSTAR CIRCUIT DIAGRAM	SPREAD
CNA	2MAY07	CORRECTED TYPOF	A	60773Y	RELEASE NO. 59637L	DATE 31AUG06	PART NO. AE08-55894
							05

Figure 5 Circuit Number Identification and Color (Cont.)

2.6. CIRCUIT NUMBER IDENTIFICATION AND COLOR (CONT.), P. 6

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

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

Figure 6 Circuit Number Identification and Color (Cont.)

2.7. LAMP BULB CHART, P. 7

INTERNATIONAL TRUCK AND ENGINE CORPORATION THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF INTERNATIONAL TRUCK AND ENGINE CORPORATION.		ELECTRICAL CIRCUIT DIAGRAM LAMP BULB CHART	CHAPTER 2
BULB APPLICATION		CANDLE POWER OR WATT	BULB TRADE NUMBER
BACK-UP LIGHT (SUPER 40)		32 CP	TL40204
CLEARANCE & IDENTIFICATION		3 CP	N/A
COURTESY LIGHT		2 CP	193
CAB DOME LIGHT		12 WATT	211-2
SLEEPER DOME LIGHT (FLUORESCENT)		15 WATT	F15T8CW
FOG LIGHT		100 WATT	4921-1
MAP LIGHT		3 CP	211-2
SIDE MARKER / TURN LIGHT		27 WATT	3156
STOP, TURN AND TAIL LIGHT (SUPER 40)		32/2 CP	TL40248R
HEADLIGHTS, HIGH BEAM		65 WATT	9005
HEADLIGHTS, LOW BEAM		55 WATT	9006
FRONT MARKER / TURN LIGHT		27 / 8 WATT	3357AK
SIDE MARKER (FRONT)		4 WATT	194
LICENSE PLATE LIGHT (SUPER 40)		2 CP	TL1508
BOC WORK LIGHT (DAY CAB)		35 WATT	4411
WORK LIGHTS (IN SLEEPER BACK PANEL)		15 CP	1003
LUGGAGE COMPARTMENT LIGHT		12 WATT	211-2
READING LIGHT		15 CP	912
ACCENT LIGHT		12 WATT	211-2
SLEEPER FLOOR LIGHT		2 CP	193
CABINET / WARDROBE LIGHT		5 WATT	7575

CHG	DATE	CHANGE	REV	REFERENCE	DRAWN BY	NAME
CNA	2MAY07	ADDED CANDLEPOWER	A	60773Y	U00K640	PROSTAR CIRCUIT DIAGRAM
		RATING FOR BACK-UP LIGHT			RELEASE NO. 59637L	DATE 31AUG06 PART NO. AE08-55894 SHEET 07

Figure 7 Lamp Bulb Chart

2.8. RELAY FUNCTION AND WIRING GUIDE, P. 8

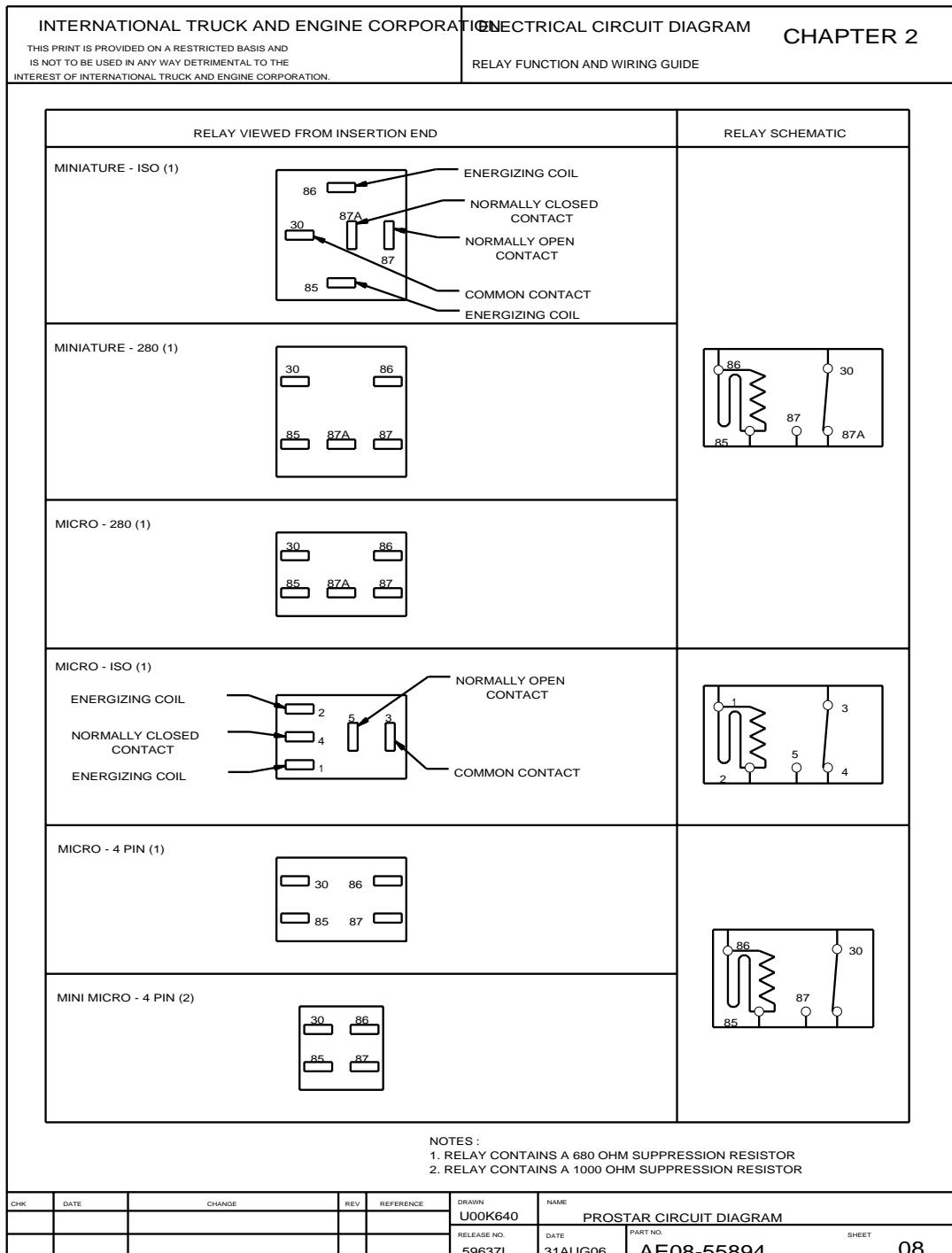


Figure 8 Relay Function and Wiring Guide

2.9. SCHEMATIC SYMBOL CHART, P. 9

INTERNATIONAL TRUCK AND ENGINE CORPORATION THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DEDIMENTAL TO THE INTEREST OF INTERNATIONAL TRUCK AND ENGINE CORPORATION.		ELECTRICAL CIRCUIT DIAGRAM CHAPTER 2 SCHEMATIC SYMBOL CHART	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	AIR DRYER		CIGAR LIGHTER
	ALARM	TYPE 1 TYPE 2 OR 3 	CIRCUIT BREAKER
	ALTERNATOR		DIODE
	AMMETER		DIODE, LIGHT EMITTING
	BATTERY		FAN SOLENOID
	BLUNT CUT CIRCUIT		FEMALE TERMINAL
	BUSBAR		FUSE

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	RELEASE NO.	DATE	PART NO.	SHEET
					U00K640	PROSTAR CIRCUIT DIAGRAM				
					59637L		31AUG06	AF08-55894		09

Figure 9 Schematic Symbol Chart

2.10. SCHEMATIC SYMBOL CHART (CONT.), P. 10

INTERNATIONAL TRUCK AND ENGINE CORPORATION THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DEDIMENTAL TO THE INTEREST OF INTERNATIONAL TRUCK AND ENGINE CORPORATION.		ELECTRICAL CIRCUIT DIAGRAM SCHEMATIC SYMBOL CHART (CONT)	CHAPTER 2																																																	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION																																																	
	FUSES W/ BUSBAR		HORN																																																	
	FUSIBLE LINK		KEY SWITCH																																																	
	GROUND N/ STUD		KEY SWITCH, COMPLEX																																																	
	GROUND W/ STUD		LIGHT W/ SWITCH																																																	
	HEATER		LIGHT, DOUBLE FILAMENT																																																	
	HOLDER, FUSE W/ BUSBAR		LIGHT, SINGLE FILAMENT																																																	
<table border="1"> <tr> <td>CHG</td><td>DATE</td><td>CHANGE</td><td>REV</td><td>REFERENCE</td><td>DRAWN</td><td>NAME</td> </tr> <tr> <td>CNA</td><td>2MAY07</td><td>CORRECTED TYPOF</td><td>A</td><td>60773Y</td><td>U00K640</td><td>PROSTAR CIRCUIT DIAGRAM</td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td>RELEASE NO.</td><td>DATE</td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td>59637L</td><td>PART NO.</td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td>31AUG06</td><td>AE08-55894</td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td>SPCZT</td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td>10</td> </tr> </table>				CHG	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	CNA	2MAY07	CORRECTED TYPOF	A	60773Y	U00K640	PROSTAR CIRCUIT DIAGRAM						RELEASE NO.	DATE						59637L	PART NO.						31AUG06	AE08-55894							SPCZT							10
CHG	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME																																														
CNA	2MAY07	CORRECTED TYPOF	A	60773Y	U00K640	PROSTAR CIRCUIT DIAGRAM																																														
					RELEASE NO.	DATE																																														
					59637L	PART NO.																																														
					31AUG06	AE08-55894																																														
						SPCZT																																														
						10																																														

Figure 10 Schematic Symbol Chart (Cont.)

2.11. SCHEMATIC SYMBOL CHART (CONT.), P. 11

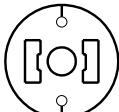
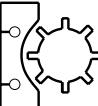
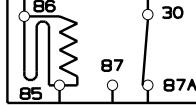
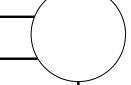
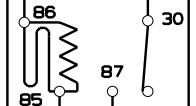
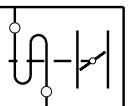
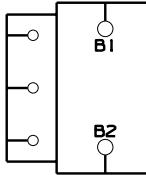
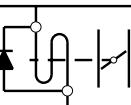
INTERNATIONAL TRUCK AND ENGINE CORPORATION THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF INTERNATIONAL TRUCK AND ENGINE CORPORATION.		ELECTRICAL CIRCUIT DIAGRAM SCHEMATIC SYMBOL CHART (CONT.)	CHAPTER 2																																			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION																																			
→	MALE TERMINAL	—VVV—	RESISTOR																																			
	MOTOR		SENDER - FUEL, OIL, TEMP, WATER																																			
↔	PASS THRU CONNECTION		SENSOR, PRESSURE. ABS 6																																			
	PRESSURE SWITCH		SENSOR, MAGNETIC																																			
	RELAY, FIVE TERMINAL		SENSOR, YAW																																			
	RELAY, FOUR TERMINAL		SOLENOID																																			
	RELAY, LATCHING		SOLENOID W/ DIODE																																			
<table border="1"> <tr> <td>CHG</td><td>DATE</td><td>CHANGE</td><td>REV</td><td>REFERENCE</td><td>DRAWN</td><td>NAME</td> </tr> <tr> <td>CNA</td><td>2MAY07</td><td>CORRECTED TYPOF</td><td>A</td><td>60773Y</td><td>U00K640</td><td>PROSTAR CIRCUIT DIAGRAM</td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td>RELEASE NO. 59637L</td><td>DATE 31AUG06</td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td>PART NO. AE08-55894</td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td>HEET 11</td> </tr> </table>				CHG	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	CNA	2MAY07	CORRECTED TYPOF	A	60773Y	U00K640	PROSTAR CIRCUIT DIAGRAM						RELEASE NO. 59637L	DATE 31AUG06							PART NO. AE08-55894							HEET 11
CHG	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME																																
CNA	2MAY07	CORRECTED TYPOF	A	60773Y	U00K640	PROSTAR CIRCUIT DIAGRAM																																
					RELEASE NO. 59637L	DATE 31AUG06																																
						PART NO. AE08-55894																																
						HEET 11																																

Figure 11 Schematic Symbol Chart (Cont.)

2.12. SCHEMATIC SYMBOL CHART (CONT.), P. 12

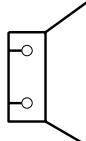
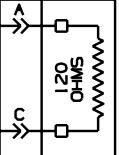
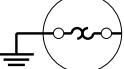
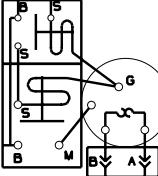
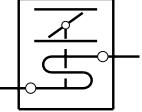
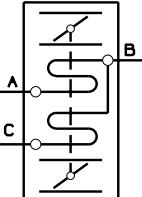
INTERNATIONAL TRUCK AND ENGINE CORPORATION THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DEDIMENTAL TO THE INTEREST OF INTERNATIONAL TRUCK AND ENGINE CORPORATION.		ELECTRICAL CIRCUIT DIAGRAM	CHAPTER 2
SCHEMATIC SYMBOL CHART (CONT.)			
 SPEAKER		 SWITCH, PUSH BUTTON	
 SPLICE		 TERMINATING RESISTOR	
 STUD		 THERMOSTAT	
 START MOTOR W/ TOCP		 VALVE, ETHER BOTTLE	
 SWITCH, MECHANICAL (NORMALLY OPEN)		 VALVE, MODULATOR	
 SWITCH, MECHANICAL (NORMALLY CLOSED)		 THERMISTOR	
CHK	DATE	CHANGE	REV
CNA	2MAKODED SYMBOL FOR START		A
MOTOR W/ TOCP AND THERMISTOR		60773Y	
RELEASE NO.	DATE	PART NO.	SPC#
59637L	31AUG06	AE08-55894	12
PROSTAR CIRCUIT DIAGRAM			

Figure 12 Schematic Symbol Chart (Cont.)

3. 12 VOLT POWER DISTRIBUTION CIRCUIT DIAGRAMS (CHAPTER 3)

3.1. BATTERY FEED, P. 1

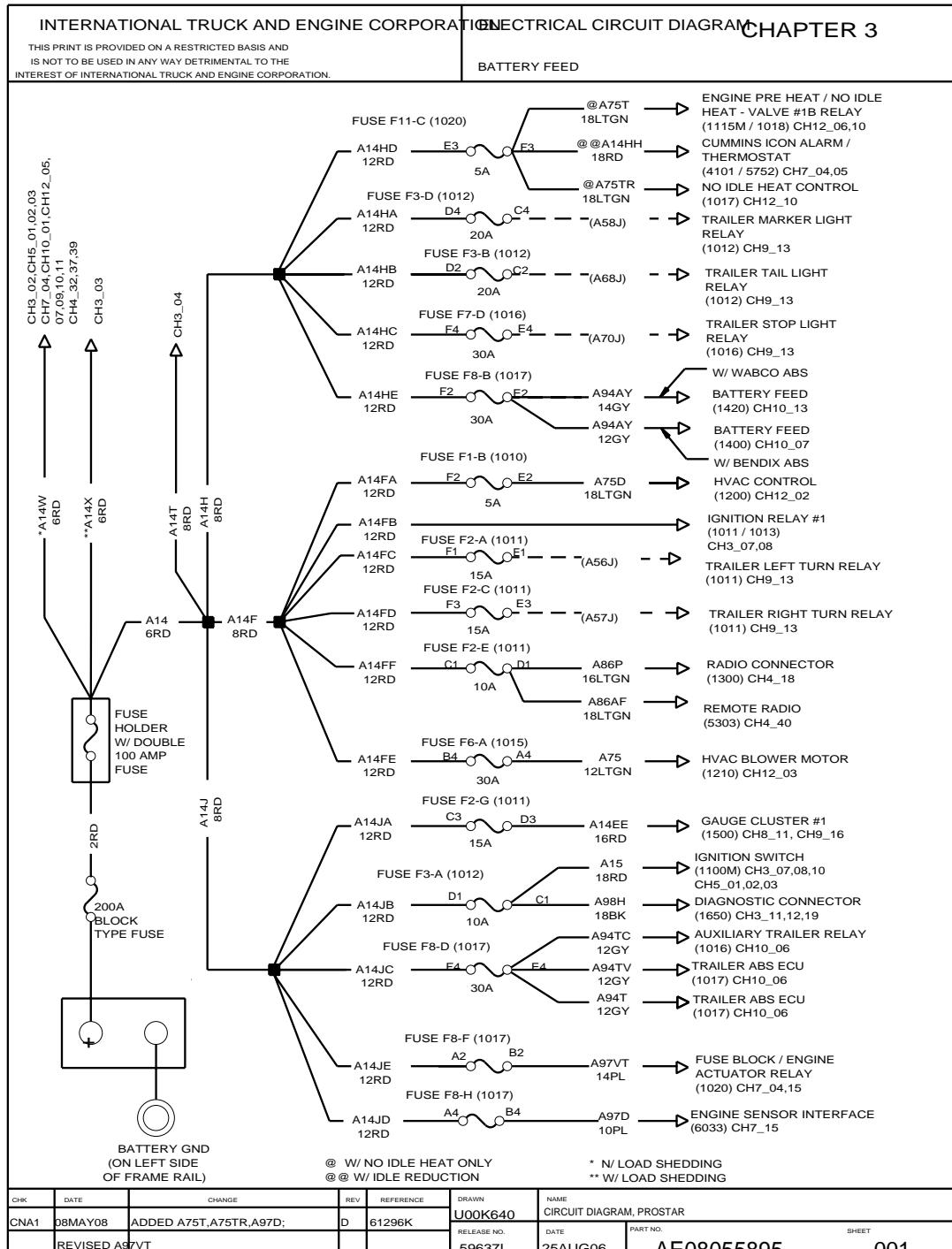


Figure 13 Battery Feed

3.2. BATTERY FEED (CONT.), P. 2

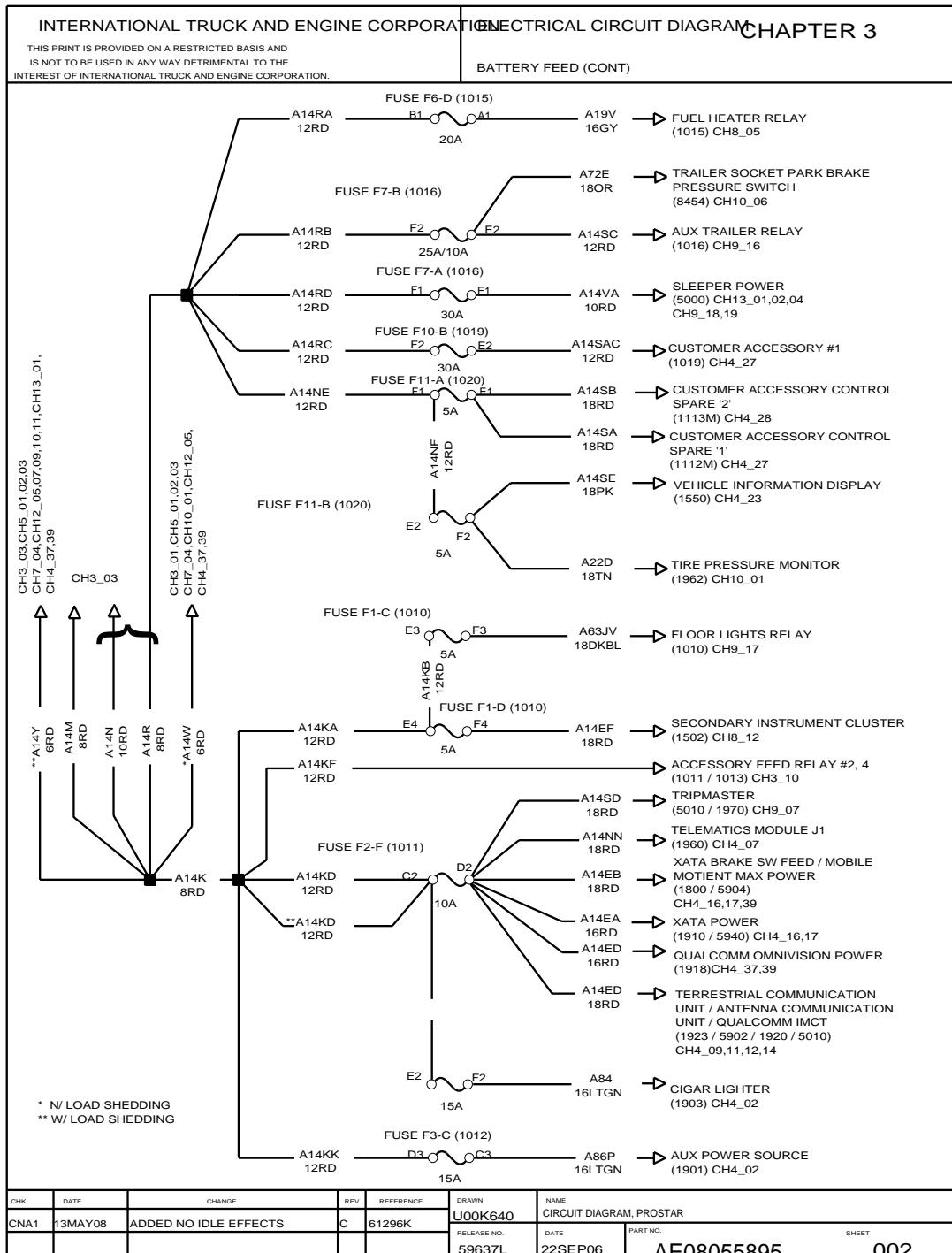


Figure 14 Battery Feed (Cont.)

3.3. BATTERY FEED (CONT.), P. 3

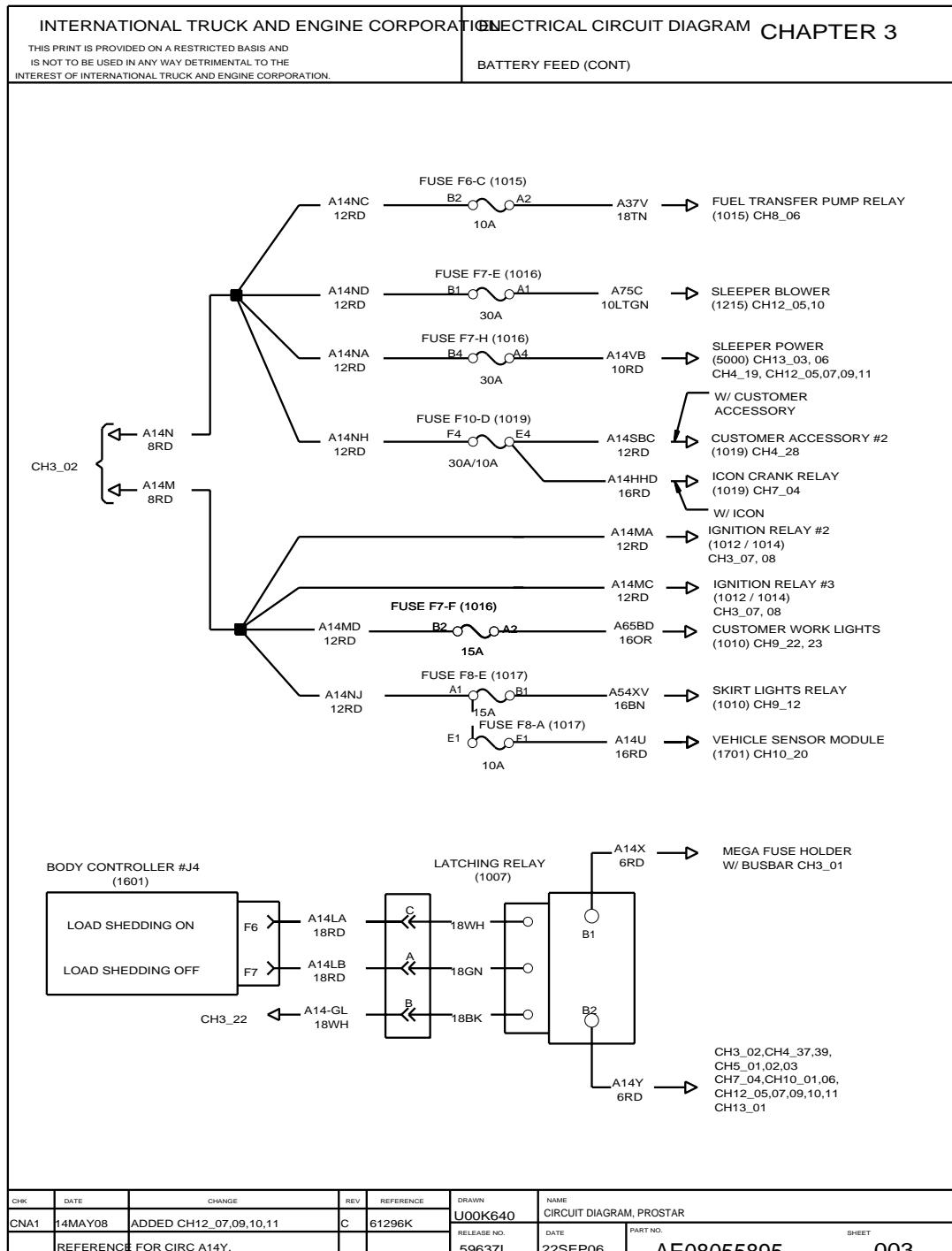


Figure 15 Battery Feed (Cont.)

3.4. BATTERY FEED (CONT.), P. 4

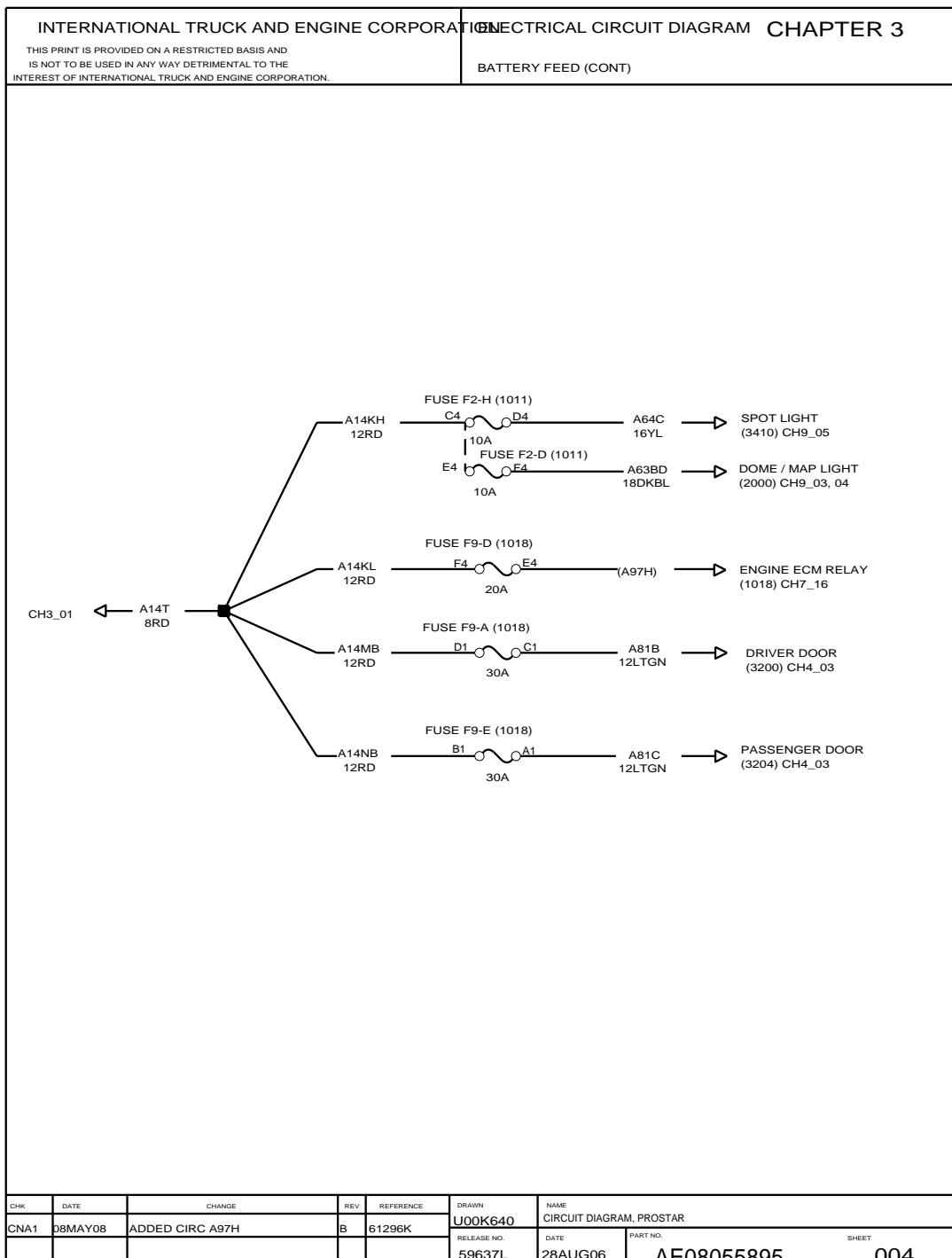


Figure 16 Battery Feed (Cont.)

3.5. BLANK PAGE, P. 5

INTERNATIONAL TRUCK AND ENGINE CORPORATION THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DEDIMENTAL TO THE INTEREST OF INTERNATIONAL TRUCK AND ENGINE CORPORATION.		ELECTRICAL CIRCUIT DIAGRAM CHAPTER 3 BATTERY FEED					
<p>PAGE INTENTIONALLY KEPT BLANK</p>							
CHK	DATE	CHANGE	REV	REFERENCE	DRAWN U00K640	NAME PROSTAR CIRCUIT DIAGRAM	SHEET 05
					RELEASE NO. 59637L	DATE 28OCT05	PART NO. AF08-55895

Figure 17 Blank Page

3.6. BLANK PAGE, P. 6

INTERNATIONAL TRUCK AND ENGINE CORPORATION THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DEDIMENTAL TO THE INTEREST OF INTERNATIONAL TRUCK AND ENGINE CORPORATION.		ELECTRICAL CIRCUIT DIAGRAM		CHAPTER 3	
BATTERY FEED					
<p>PAGE INTENTIONALLY KEPT BLANK</p>					
CHK	DATE	CHANGE	REV	REFERENCE	DRAWN U00K640 NAME PROSTAR CIRCUIT DIAGRAM
					RELEASE NO. 59637L
					DATE 28OCT05
					PART NO. AF08-55895
					SHEET 06

Figure 18 Blank Page

3.7. IGNITION FEED — STANDARD AND REMOTE START/STOP, P. 7

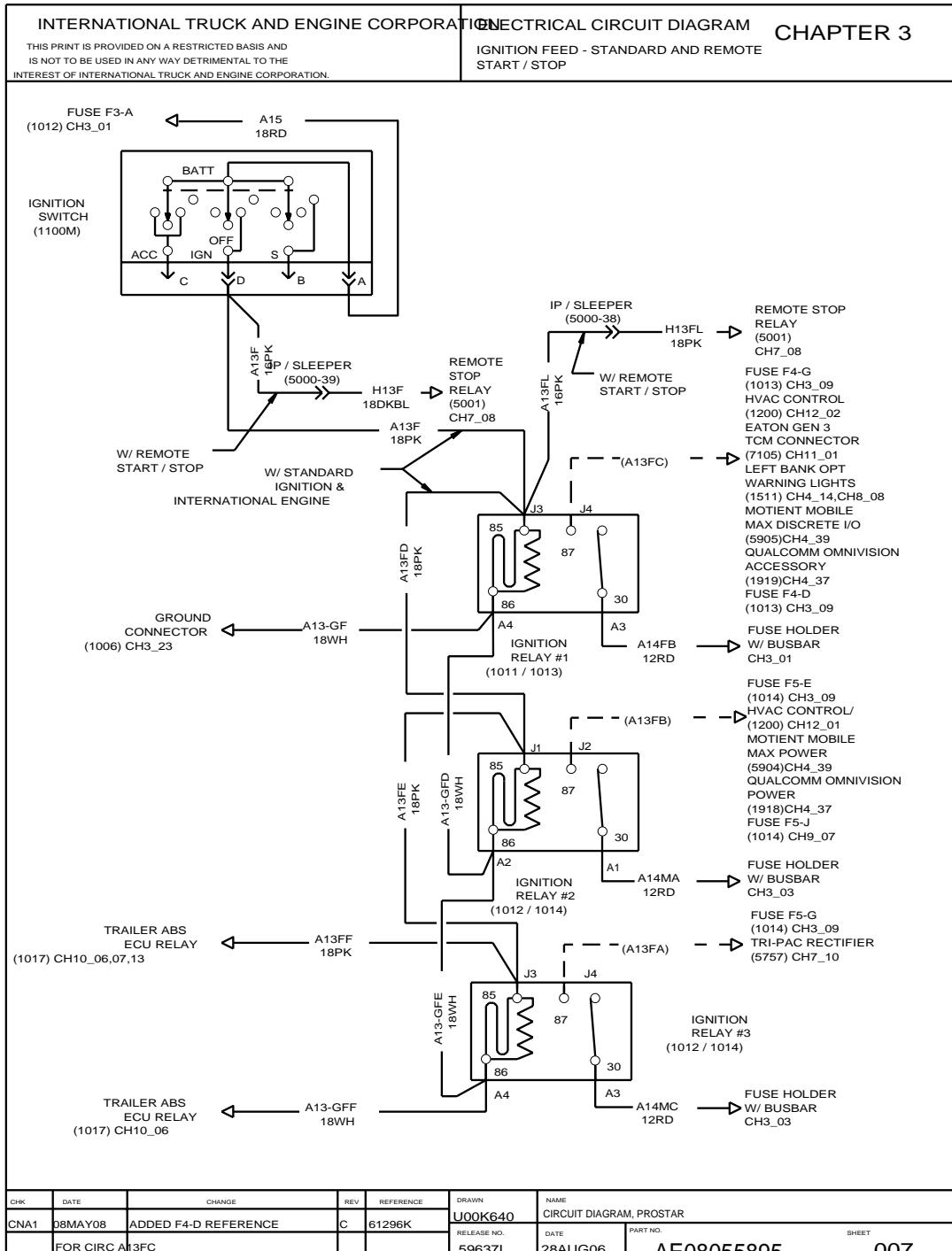


Figure 19 Ignition Feed — Standard and Remote Start/Stop

3.8. IGNITION FEED — ICON, P. 8

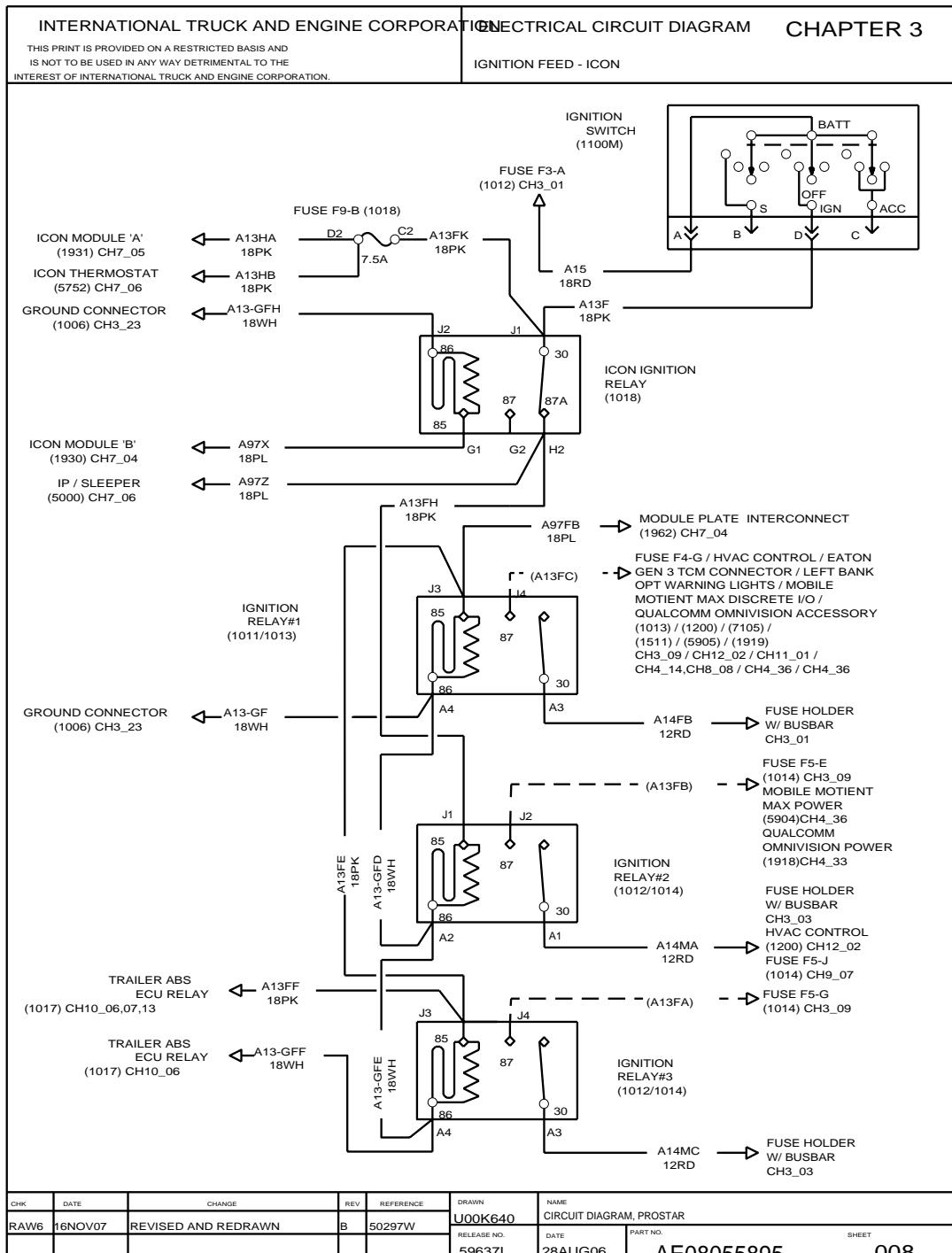


Figure 20 Ignition Feed — ICON

3.9. IGNITION FEED — STANDARD, P. 9

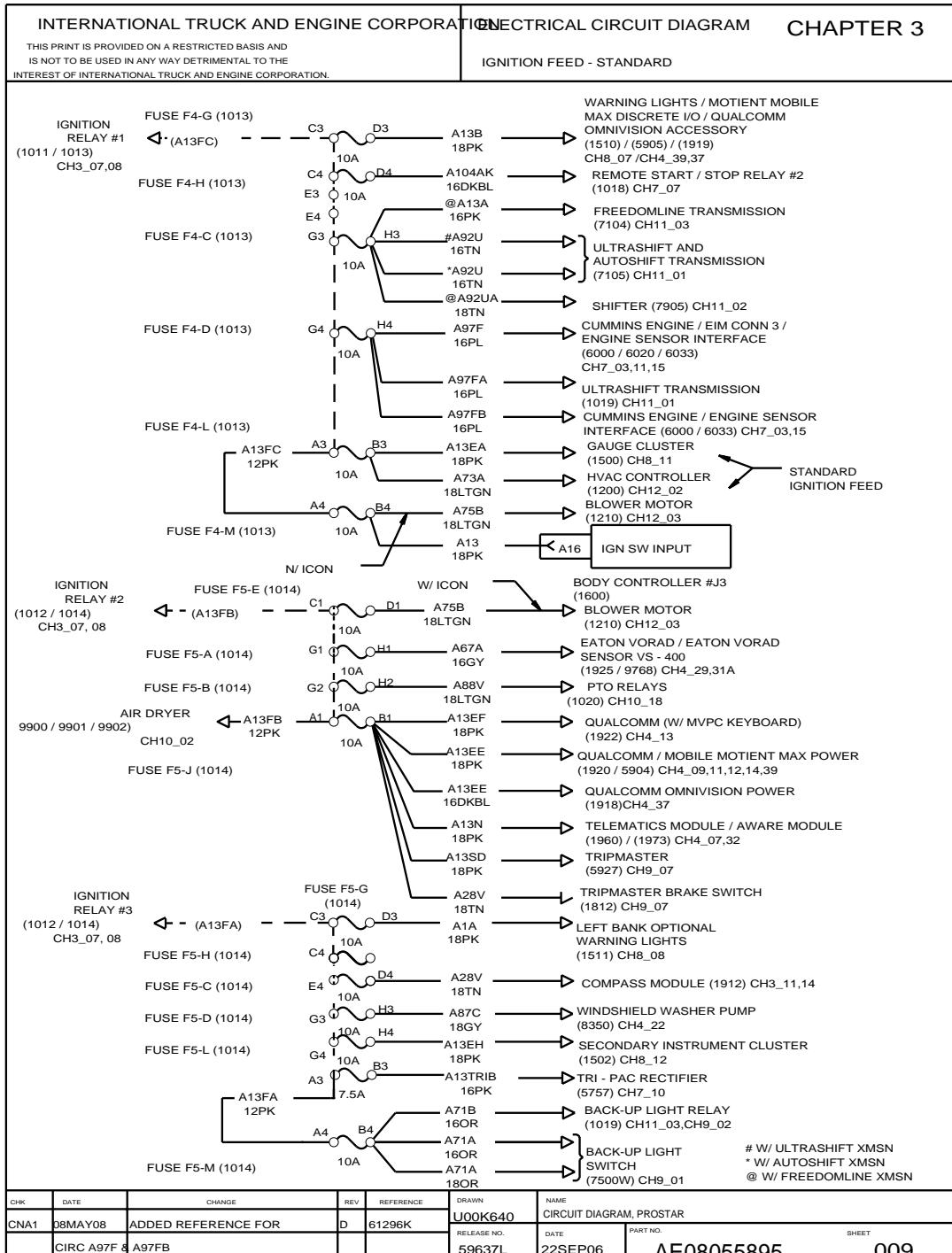


Figure 21 Ignition Feed

3.10. ACCESSORY FEED, P. 10

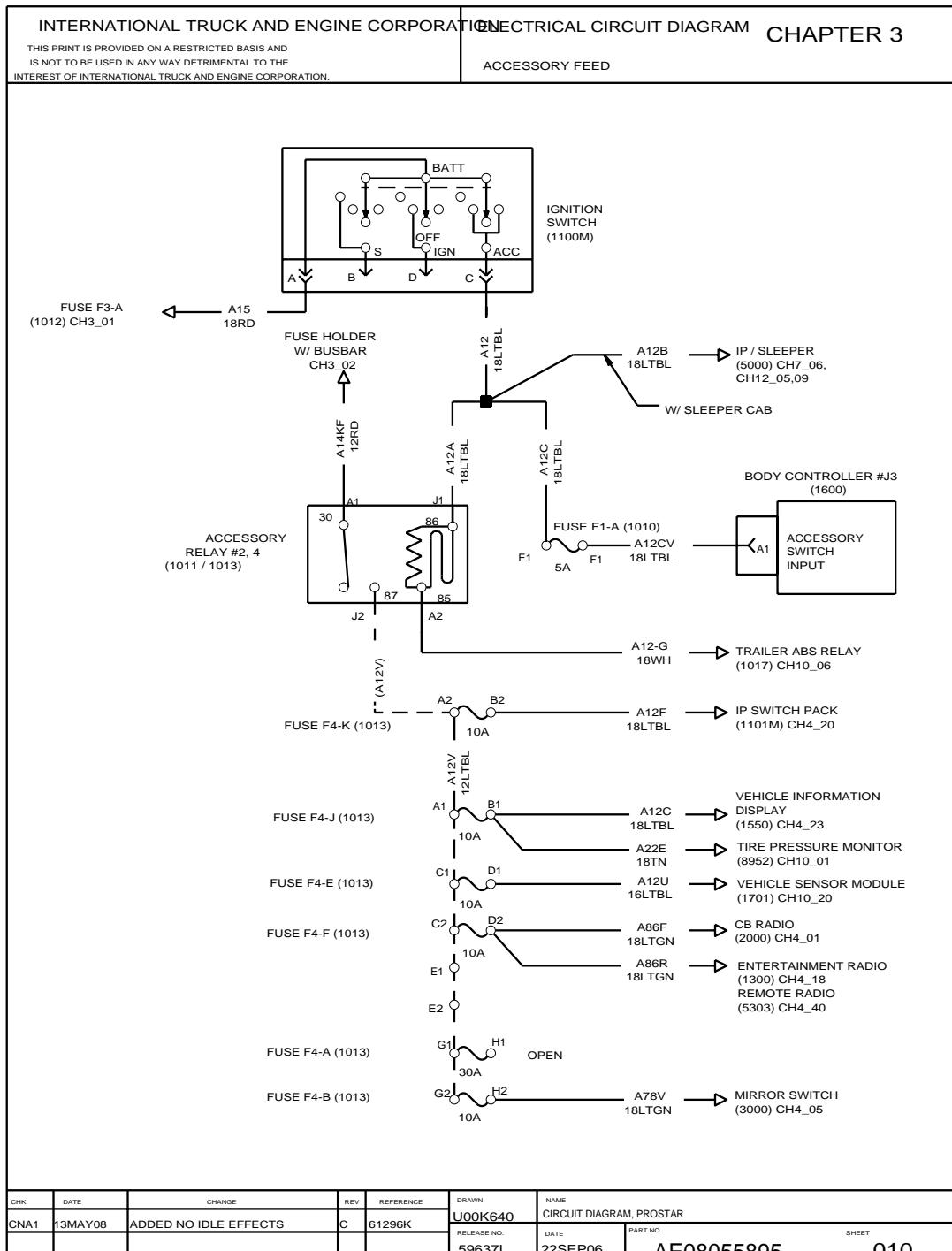


Figure 22 Accessory Feed

3.11. CAB J1939 COMPASS AND ABS EFFECTS, P. 11

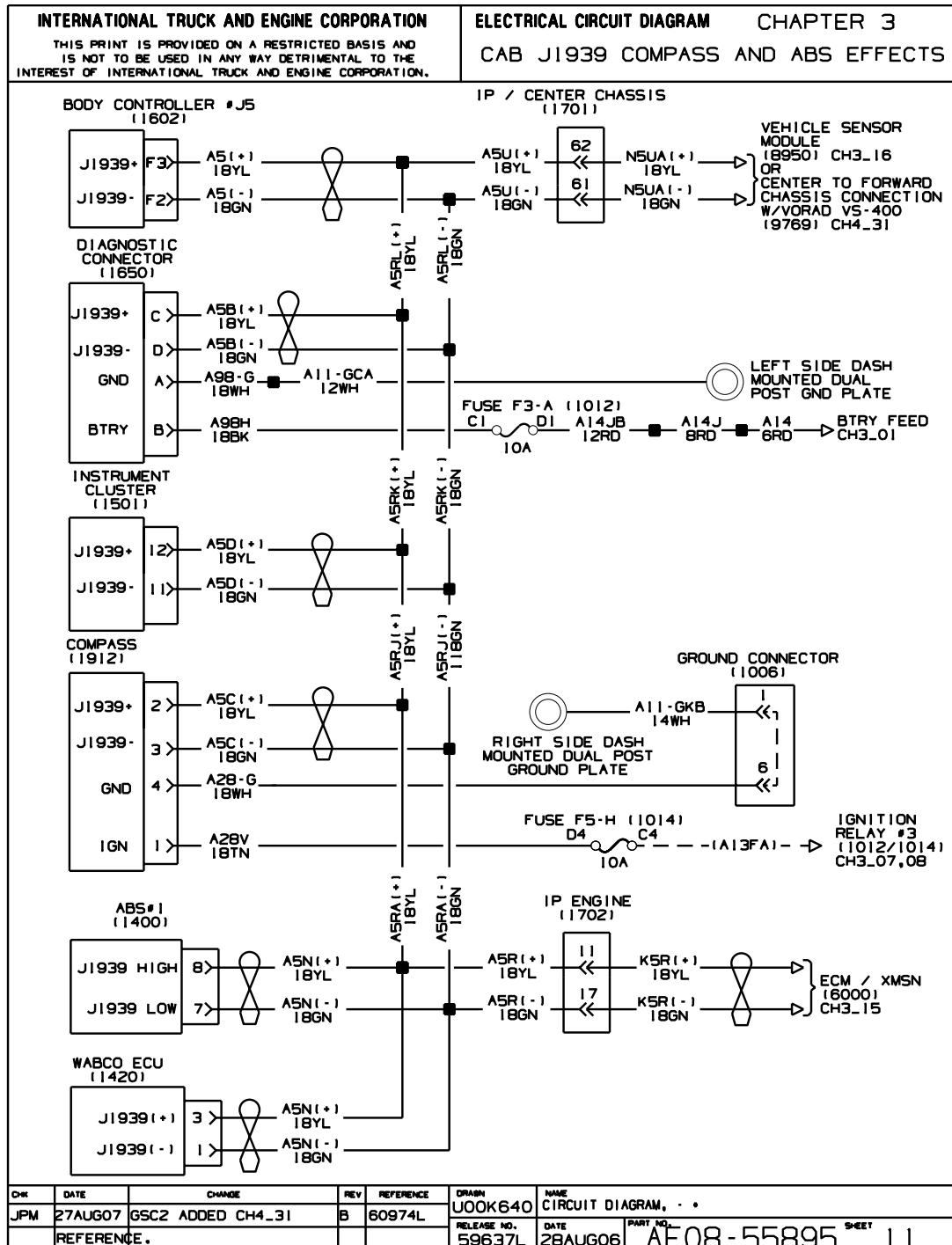


Figure 23 Cab J1939 COMPASS and ABS Effects

3.12. CAB J1939 WITH ALL OPTIONS, P. 12

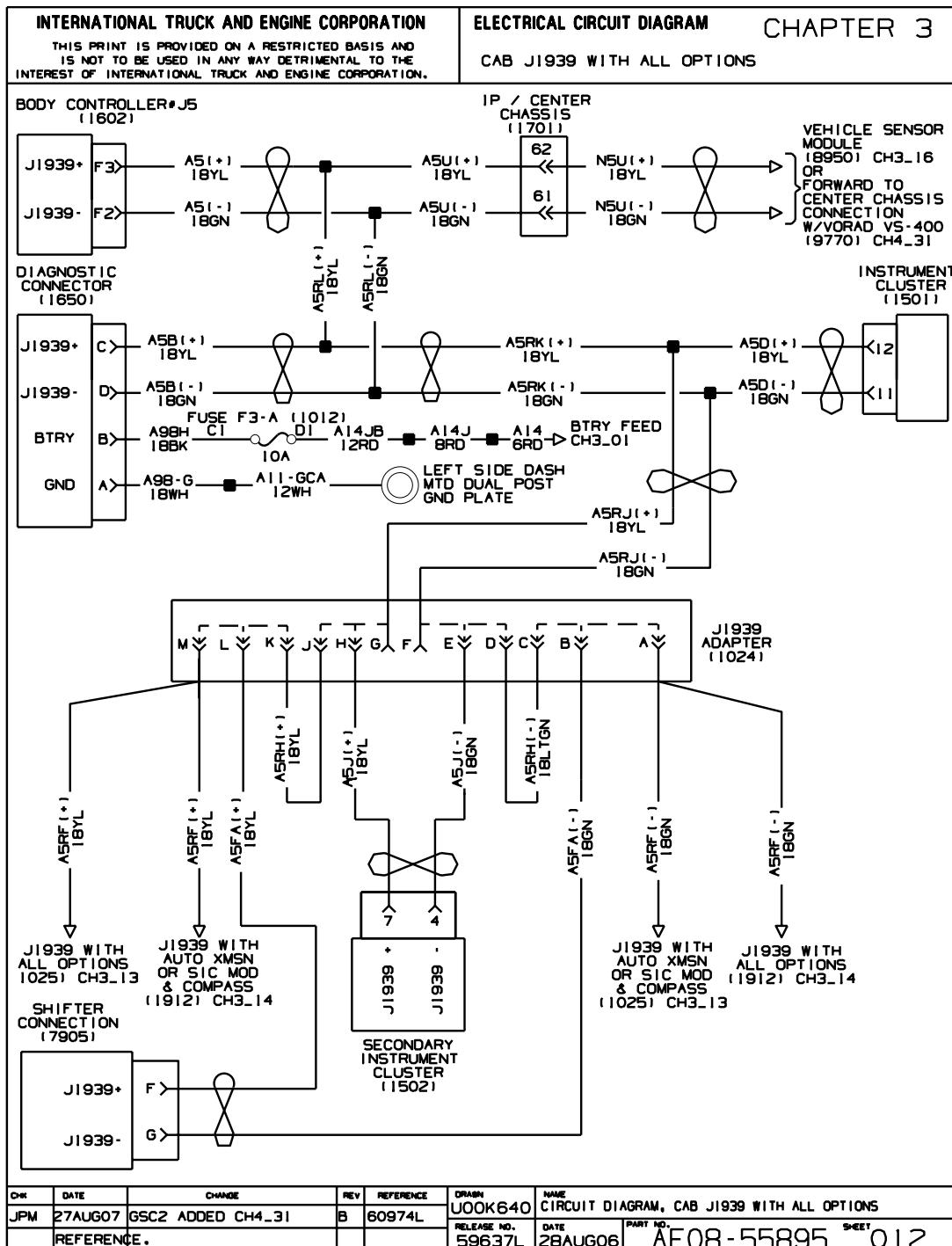


Figure 24 Cab J1939 with All Options

3.13. CAB J1939 WITH ALL OPTIONS, P. 13

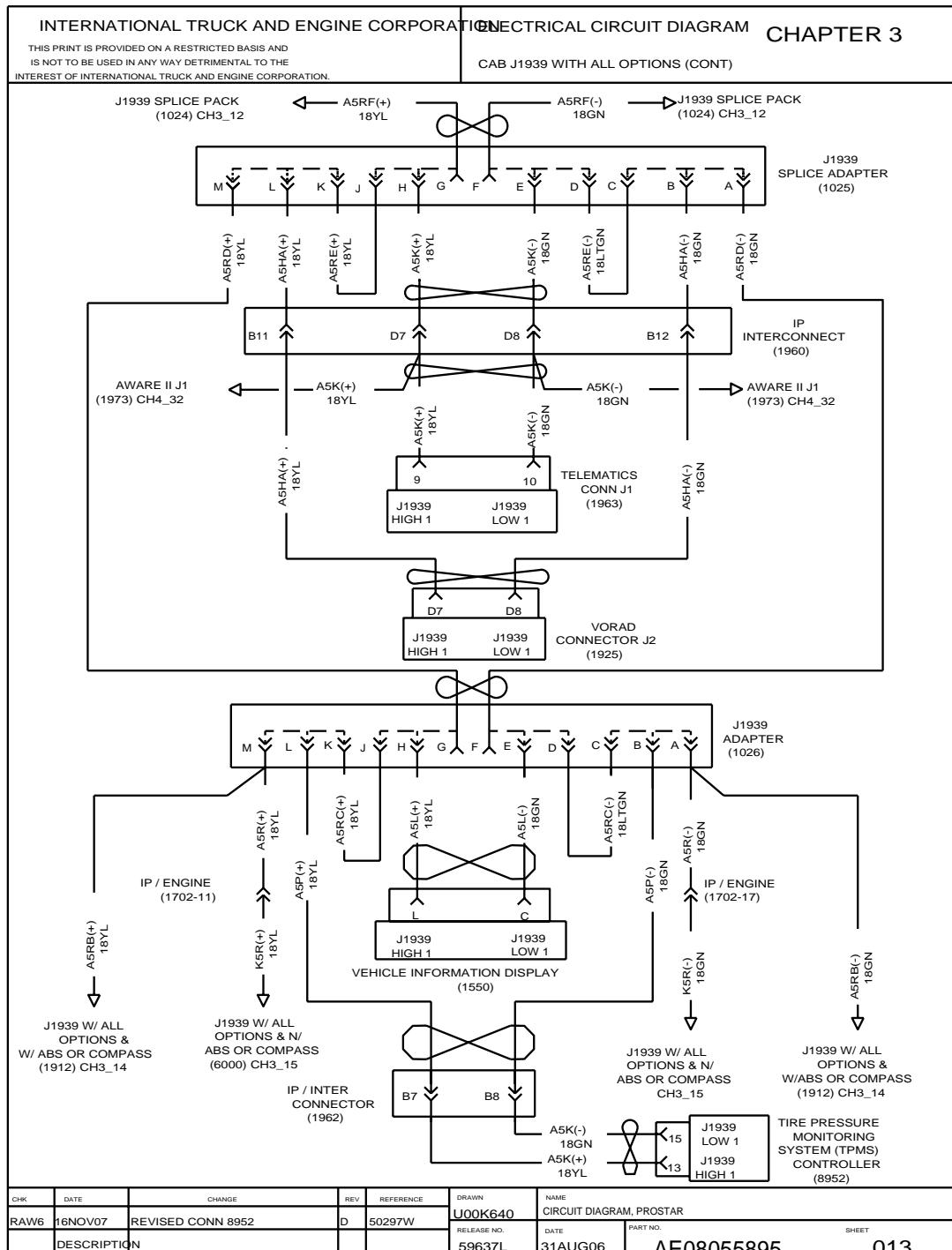


Figure 25 Cab J1939 with All Options

3.14. CAB J1939 WITH ALL OPTIONS, P. 14

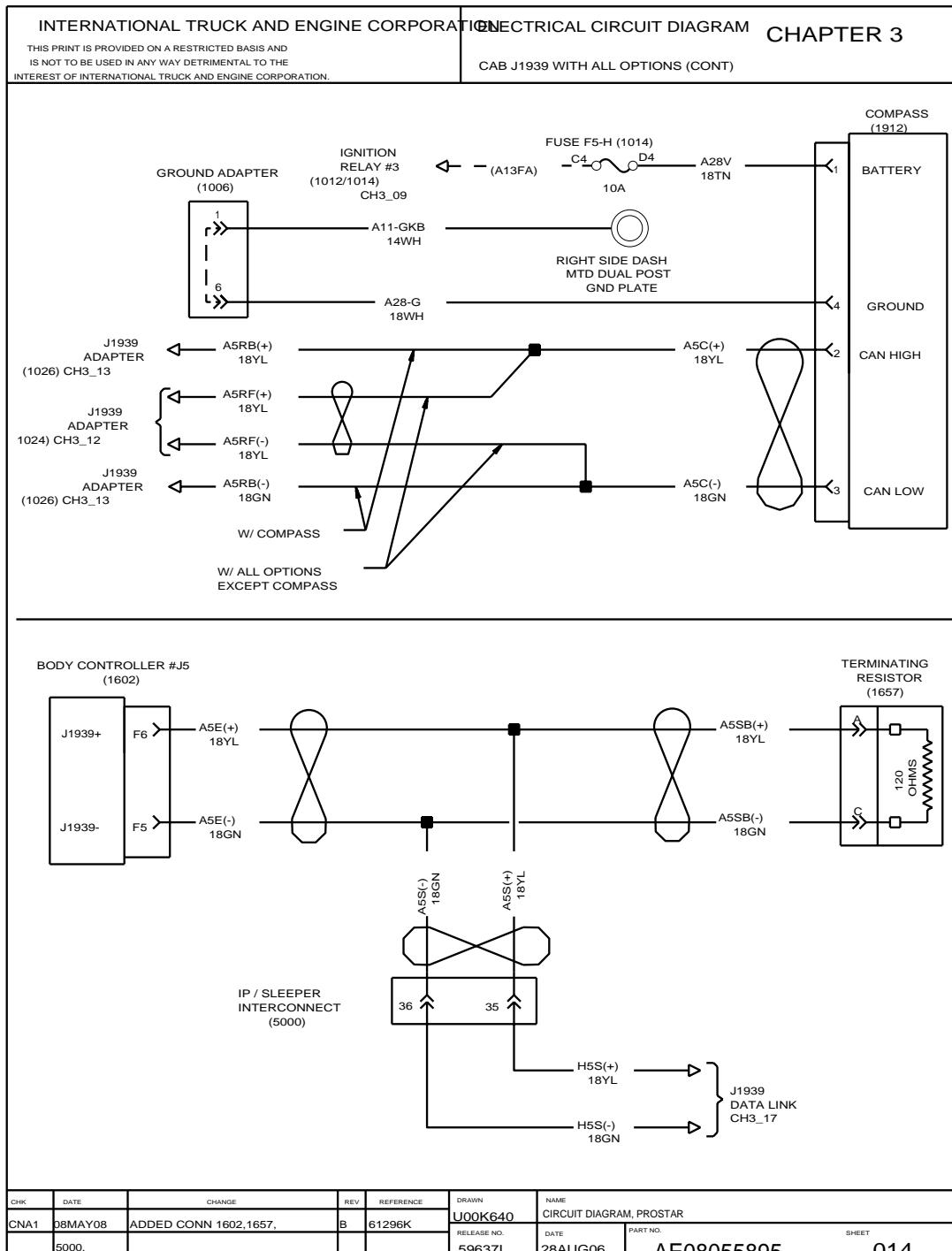


Figure 26 Cab J1939 with All Options

3.15. J1939 ENGINE, P. 15

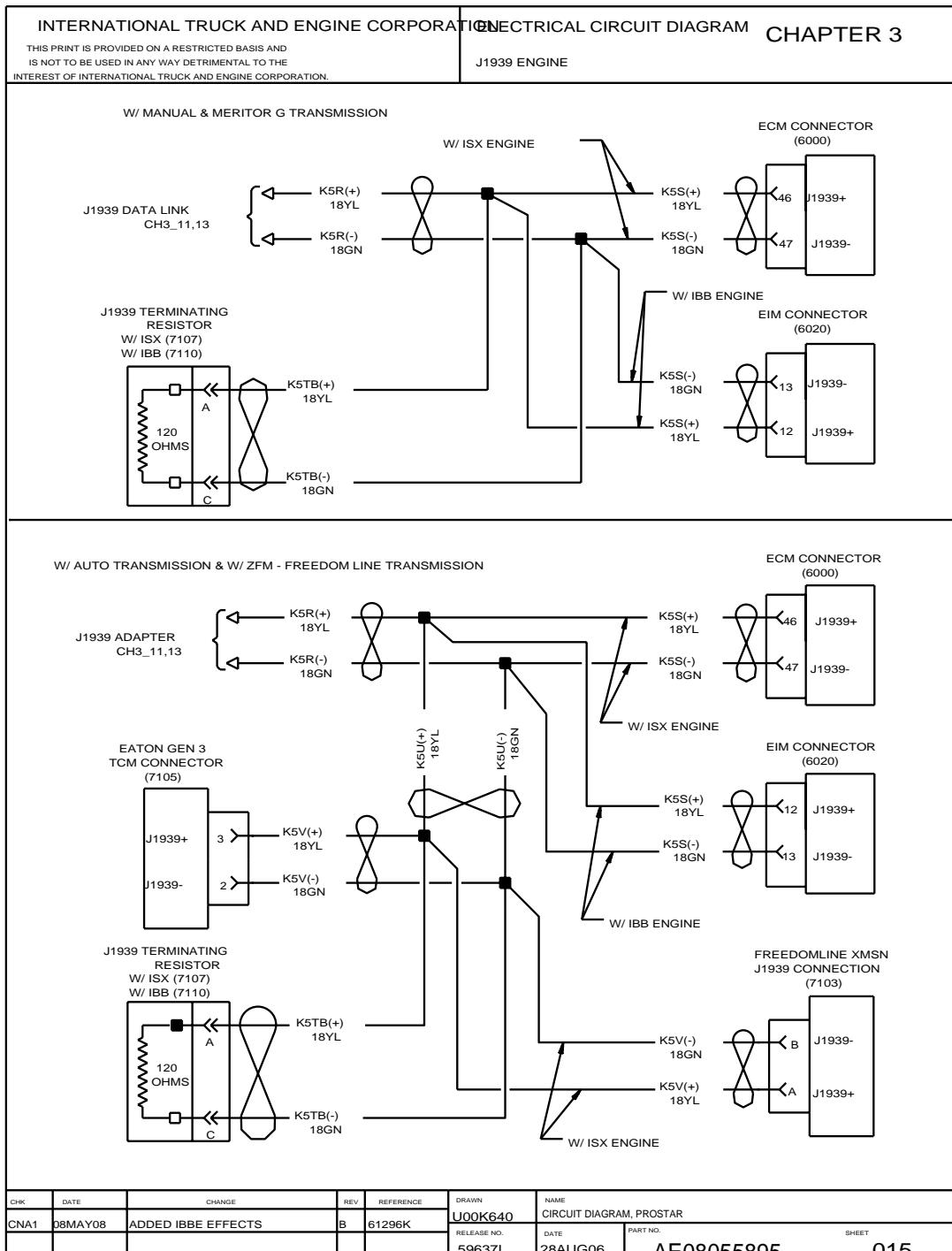


Figure 27 J1939 Engine

3.16. J1939 CHASSIS, P. 16

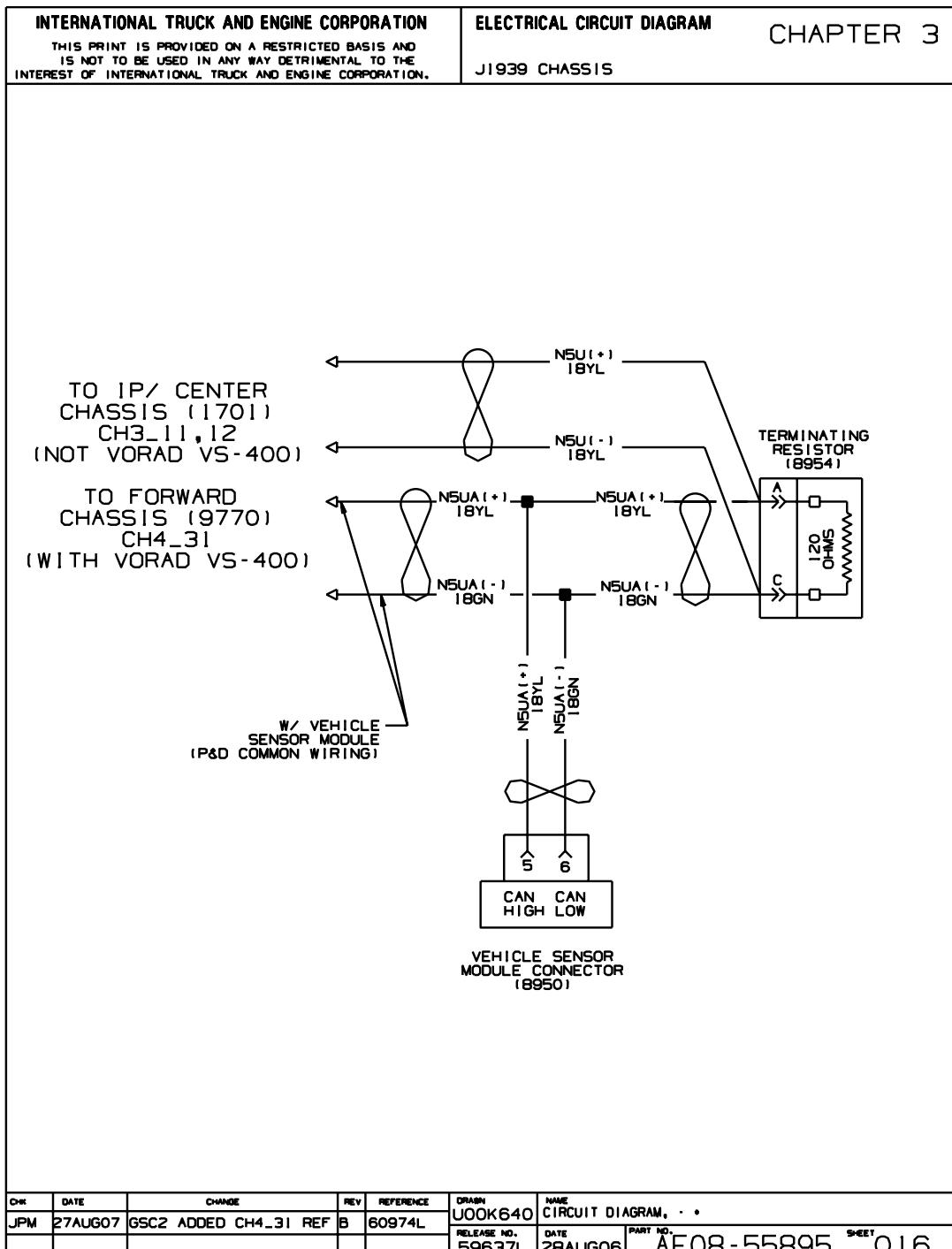


Figure 28 J1939 Chassis

3.17. J1939 WITH SLEEPER, P. 17

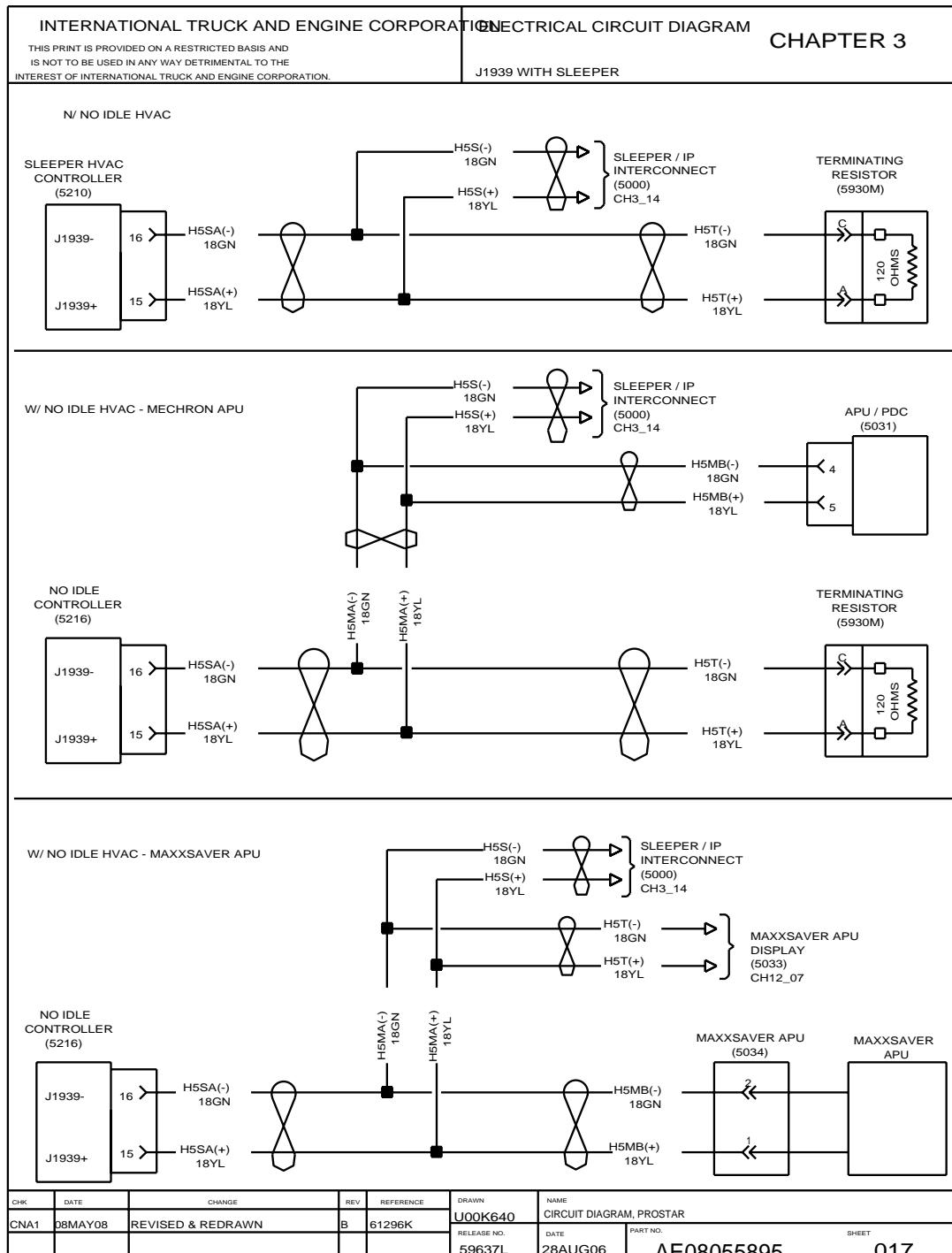


Figure 29 J1939 with Sleeper

3.18. J1708 PRIVATE, P. 18

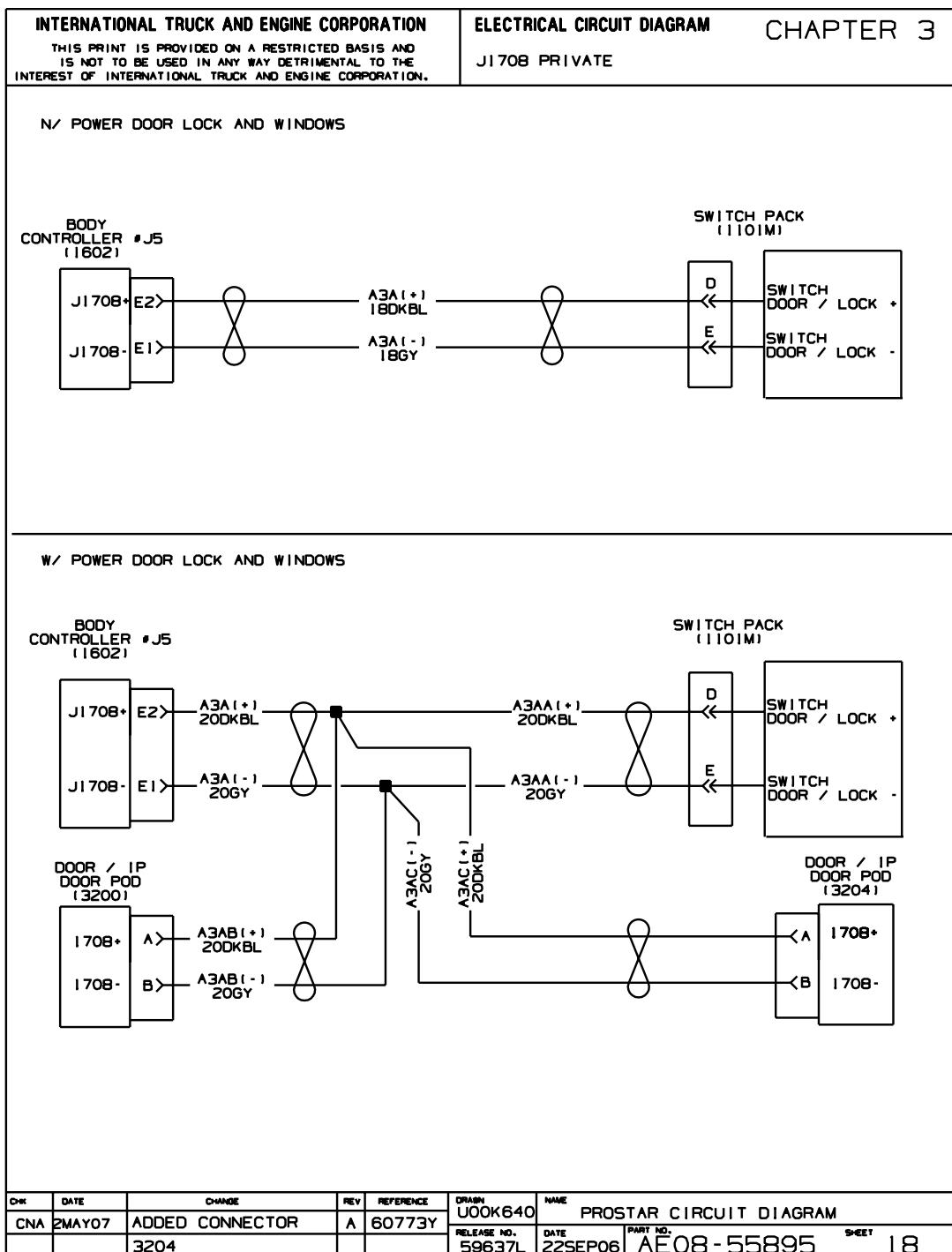


Figure 30 J1708 Private

3.19. J1708 PUBLIC, P. 19

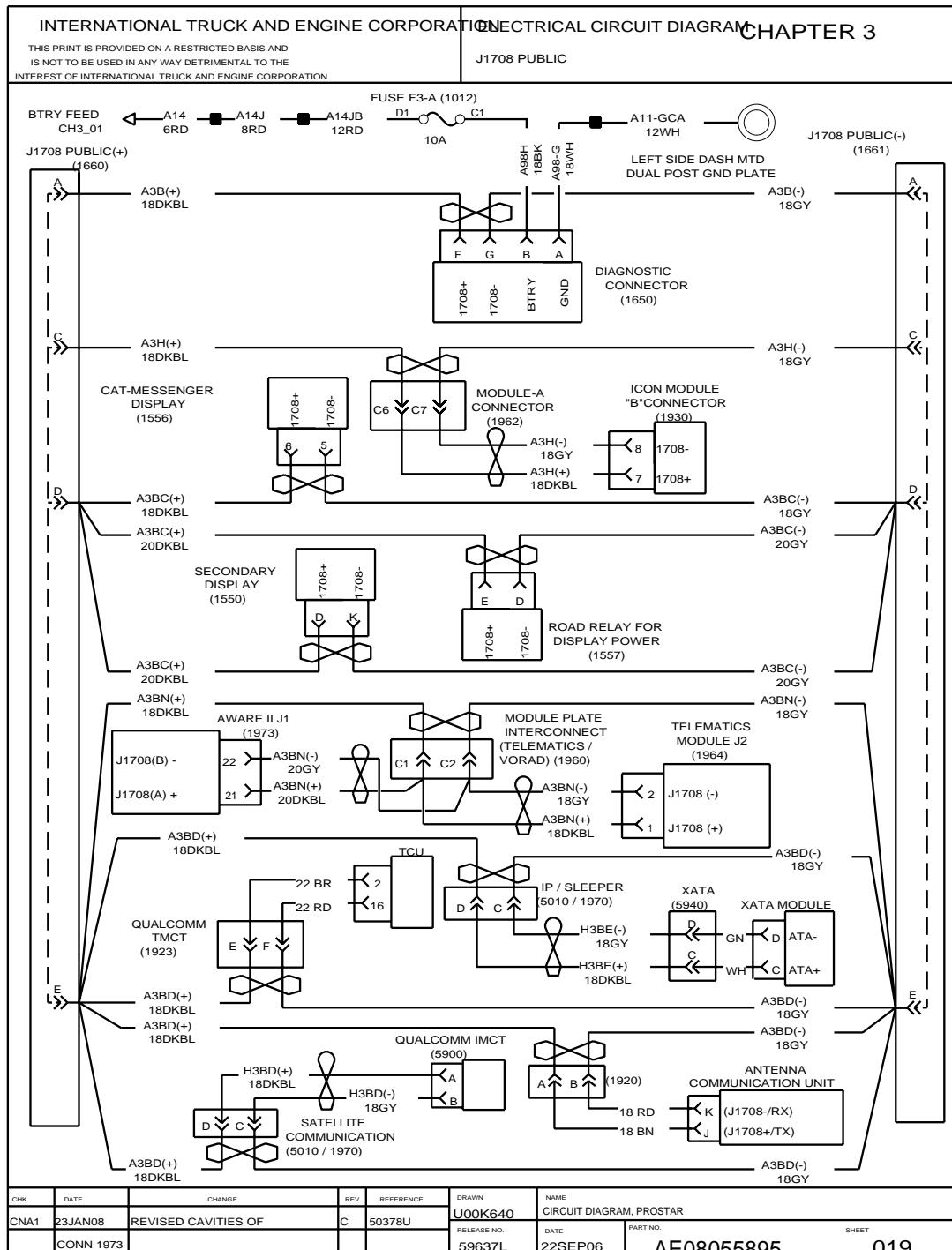


Figure 31 J1708 Public

3.20. J1708 PUBLIC, P. 20

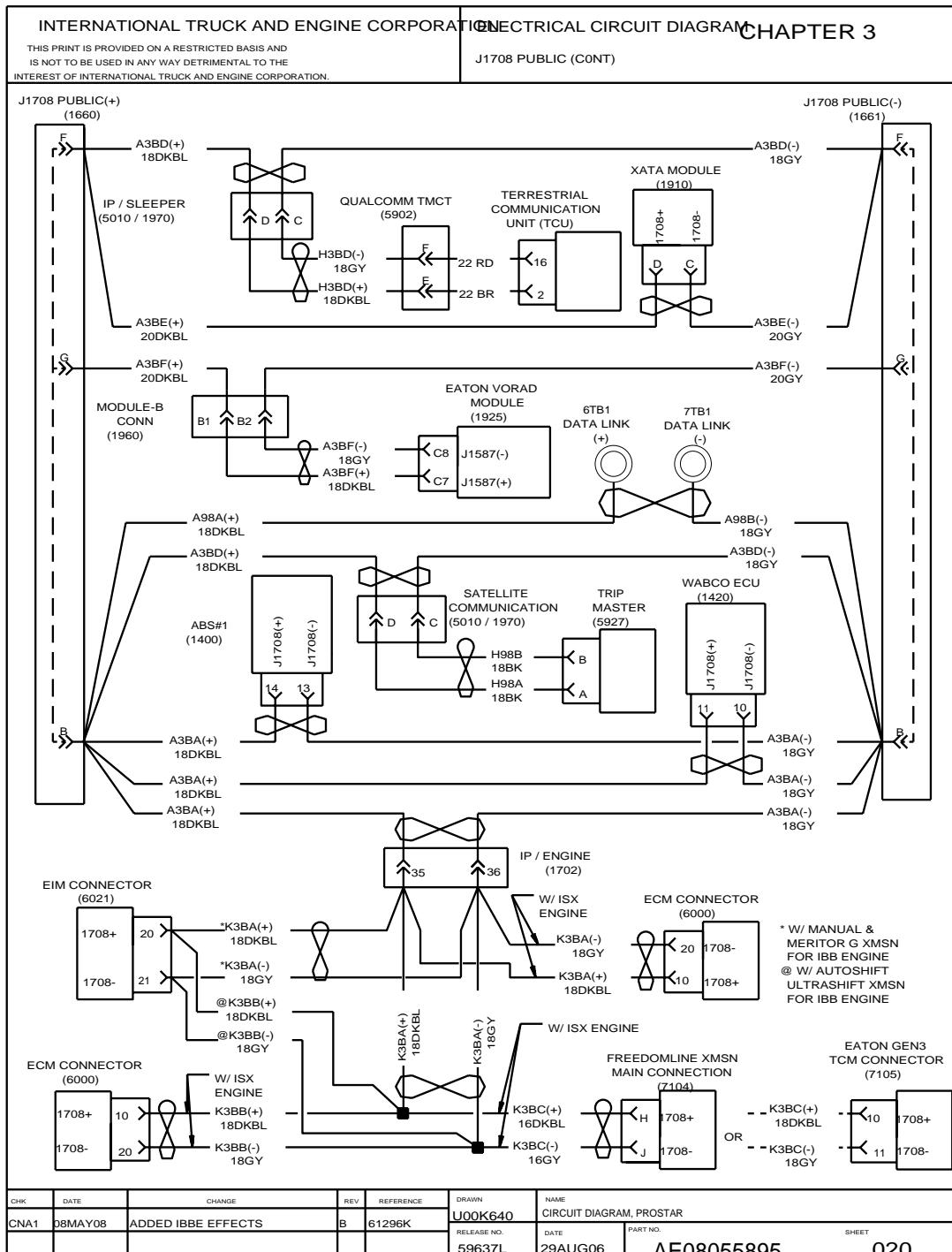


Figure 32 J1708 Public

3.21. J1708 PUBLIC, P. 20A

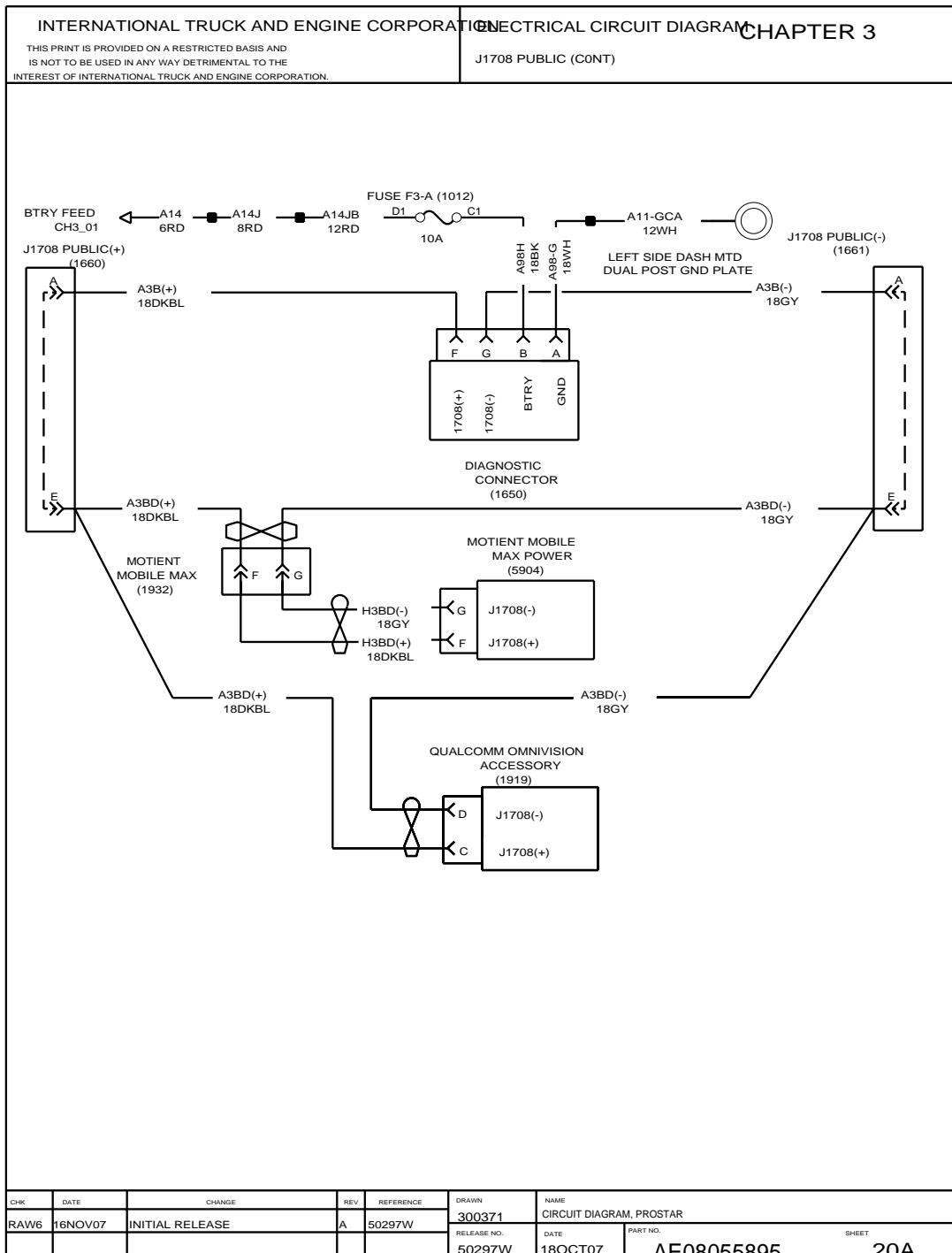


Figure 33 J1708 Public

3.22. GROUND — CAB, P. 21

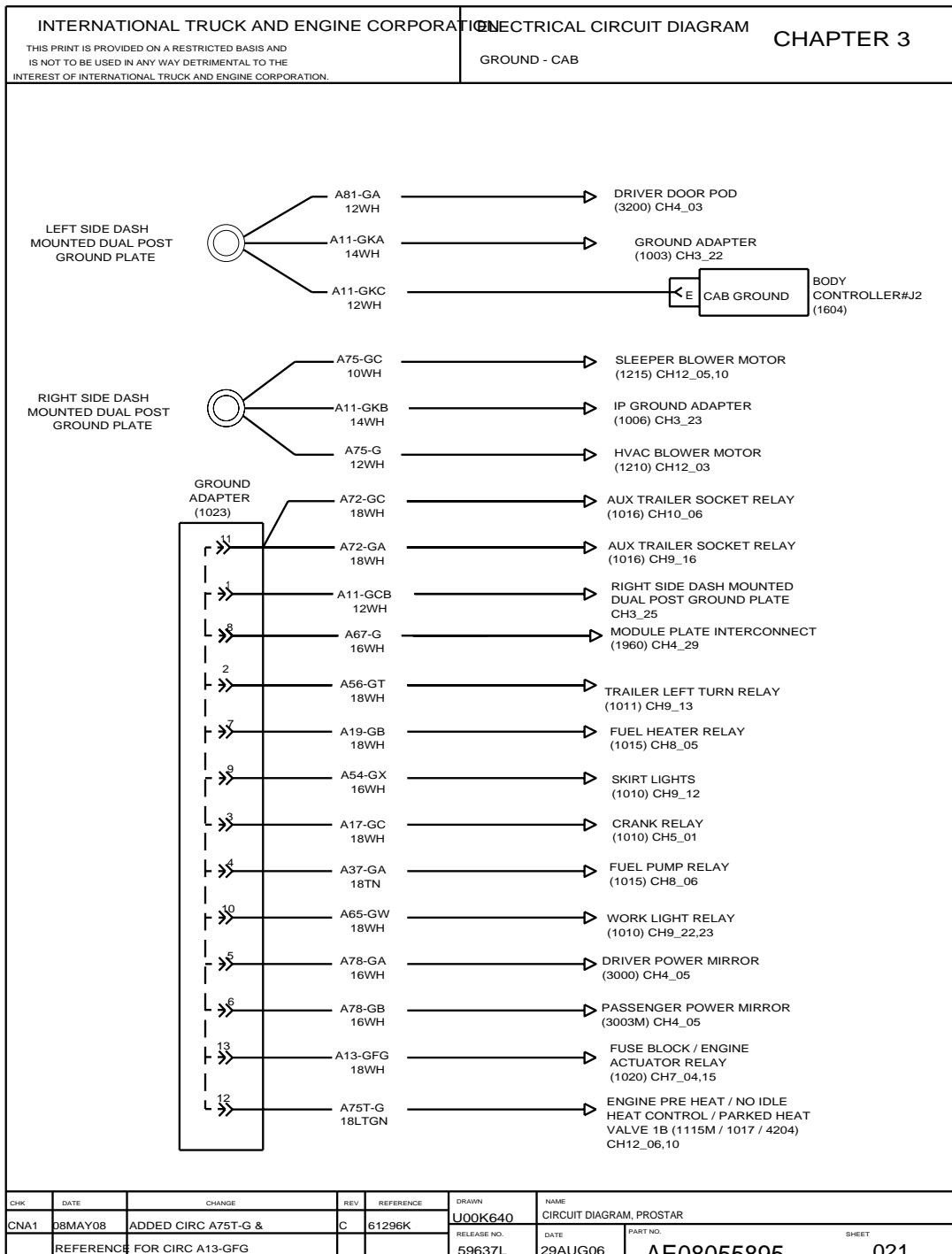


Figure 34 Ground — Cab

3.23. GROUND — CAB, P. 22

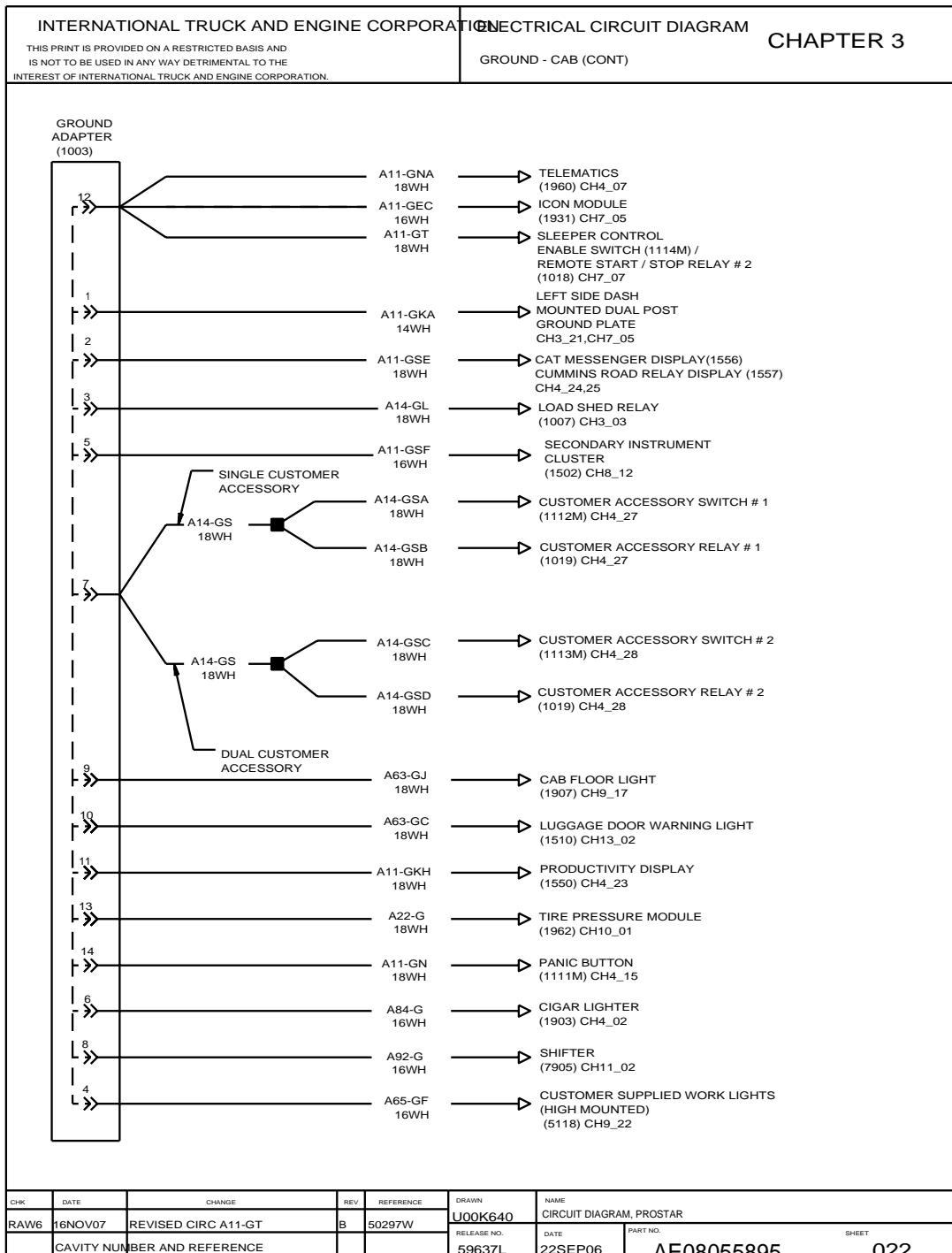


Figure 35 Ground — Cab

3.24. GROUND — CAB, P. 23

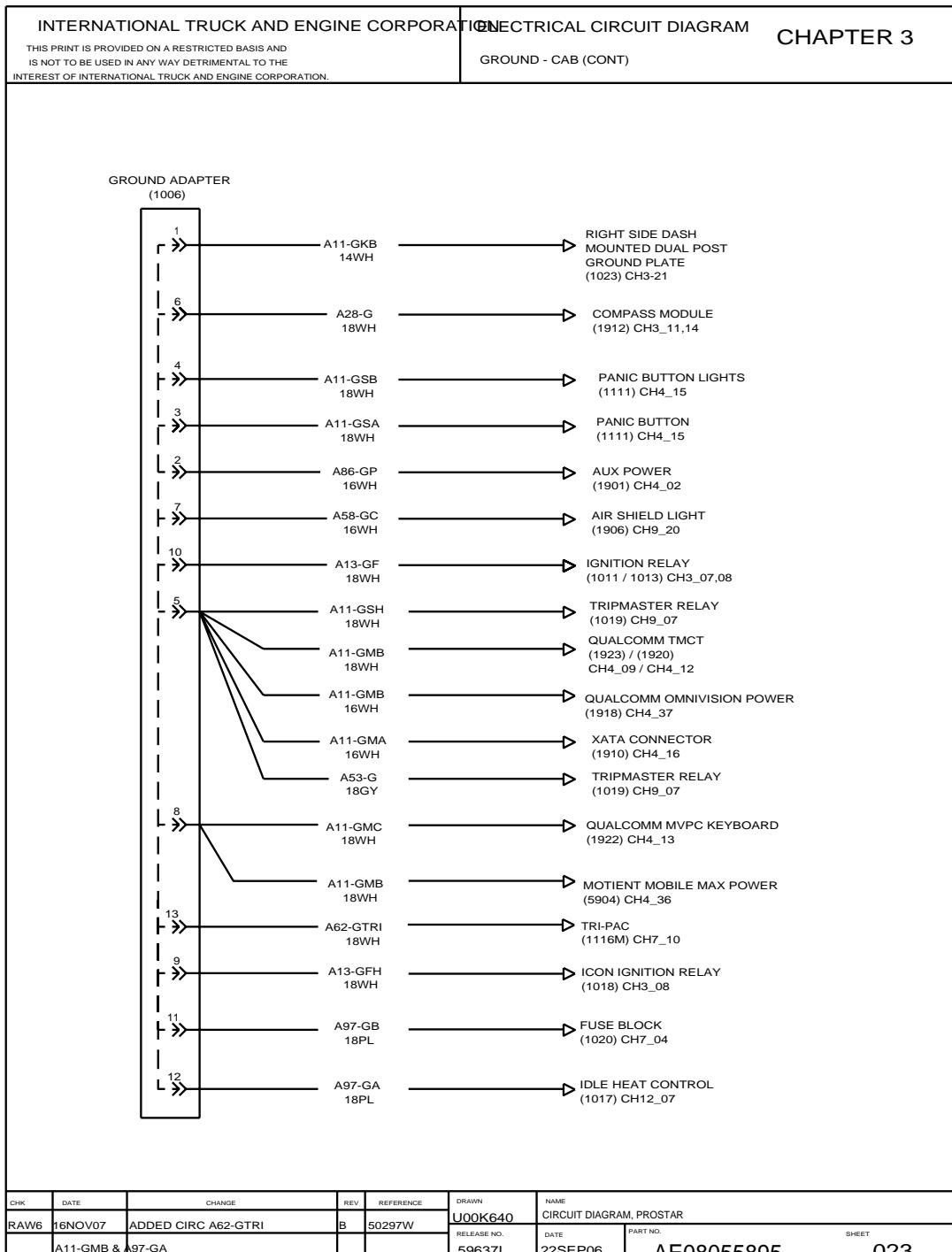


Figure 36 Ground — Cab

3.25. GROUND — CAB, P. 24

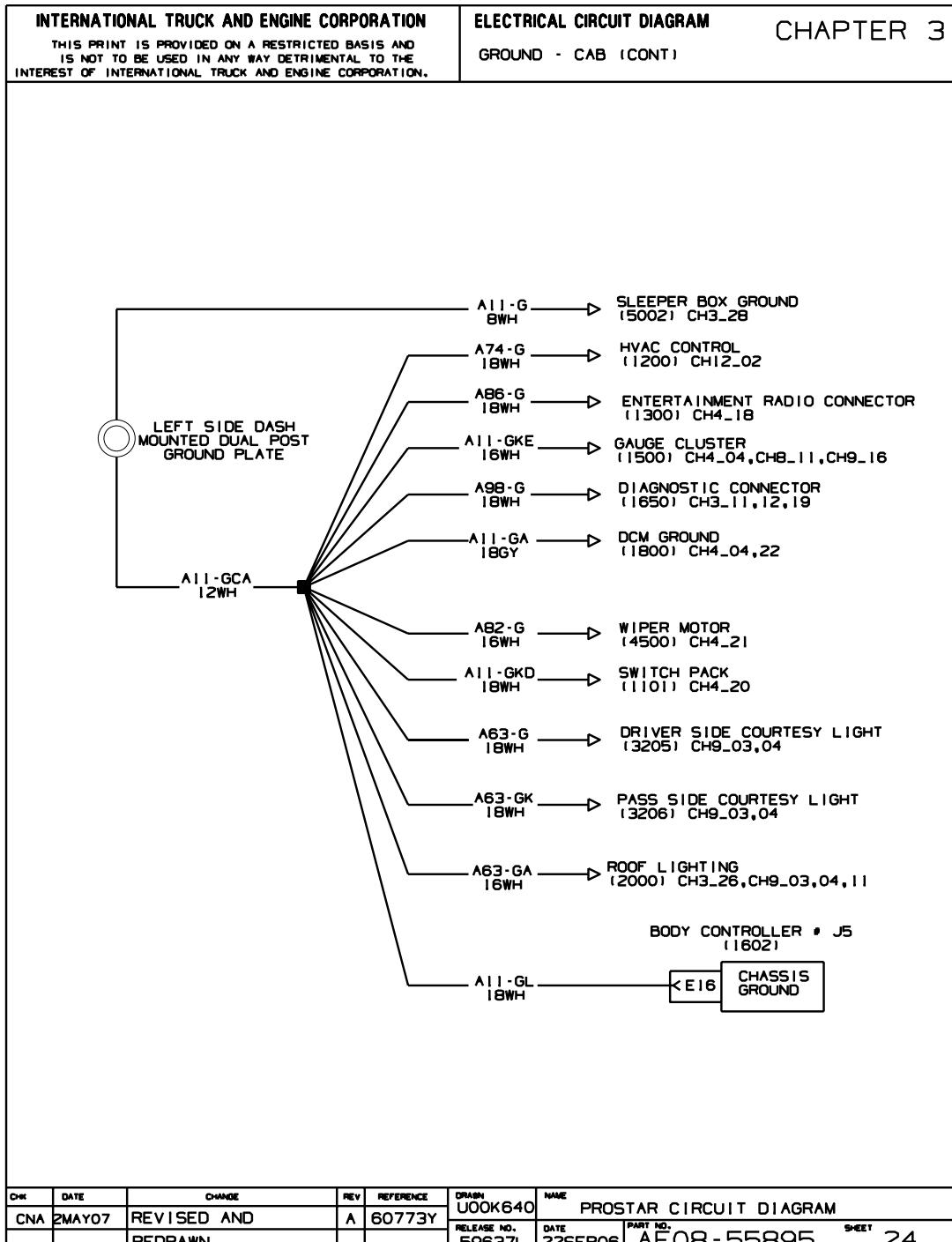


Figure 37 Ground — Cab

3.26. GROUND — CAB, P. 25

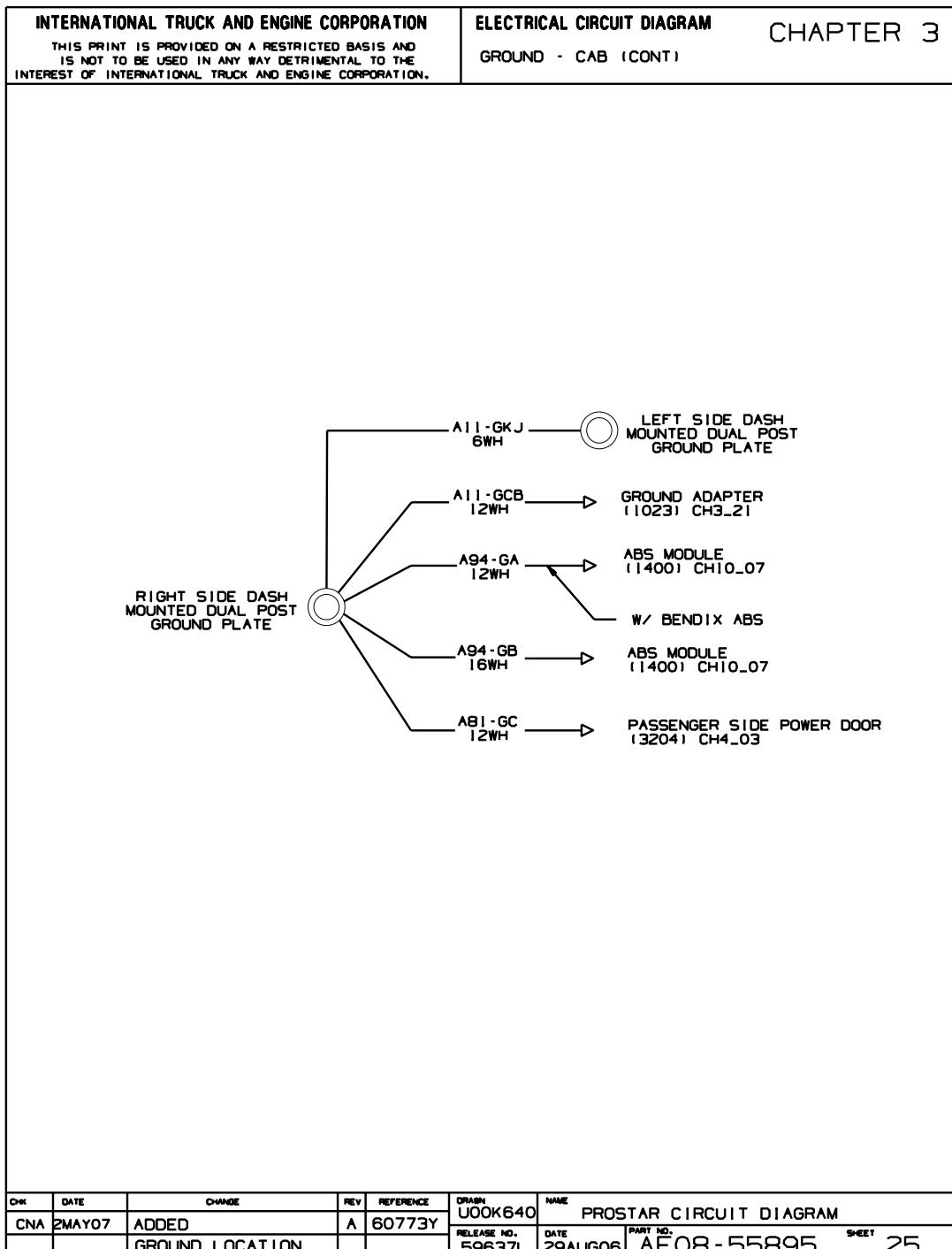


Figure 38 Ground — Cab

3.27. GROUND — CAB, P. 26

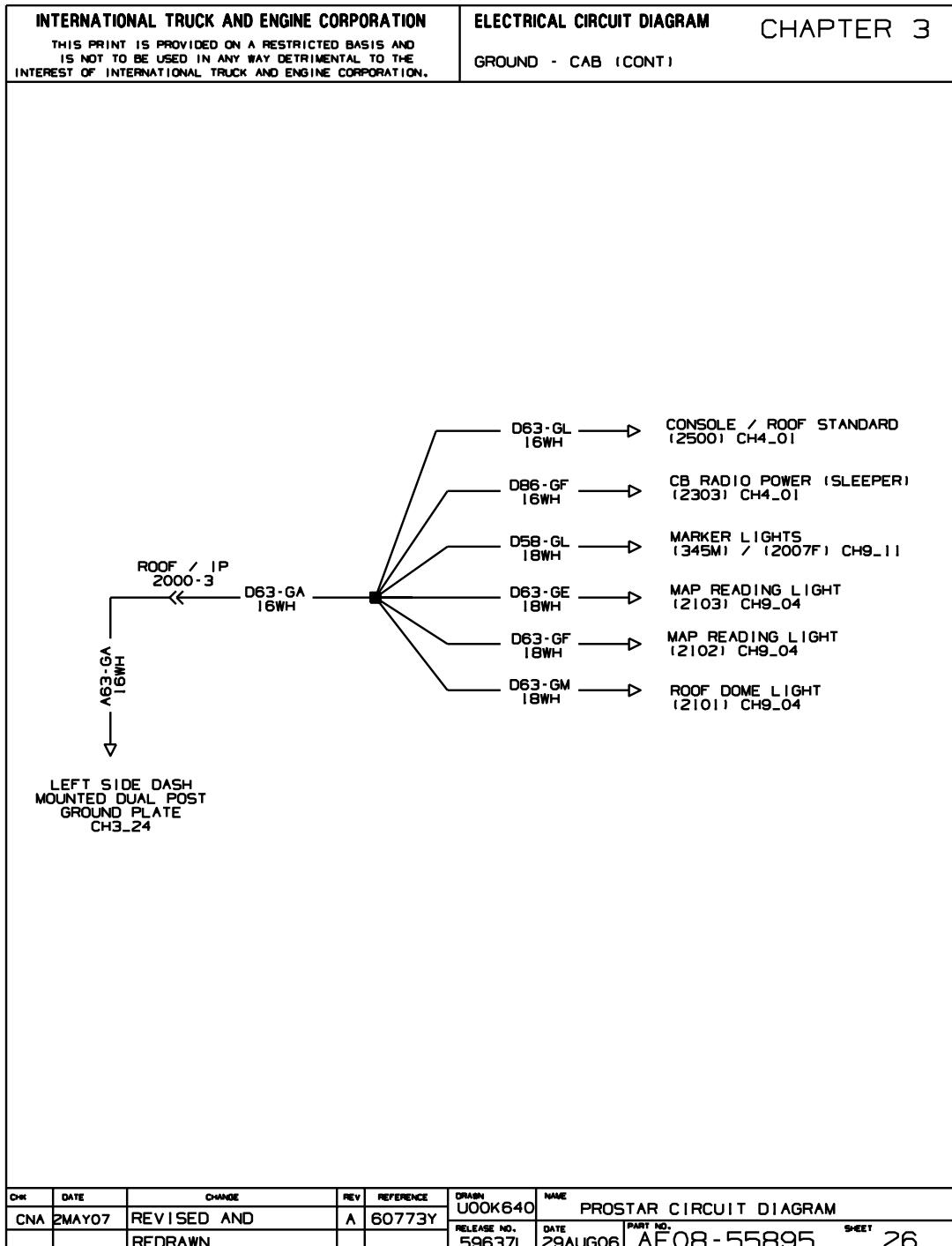
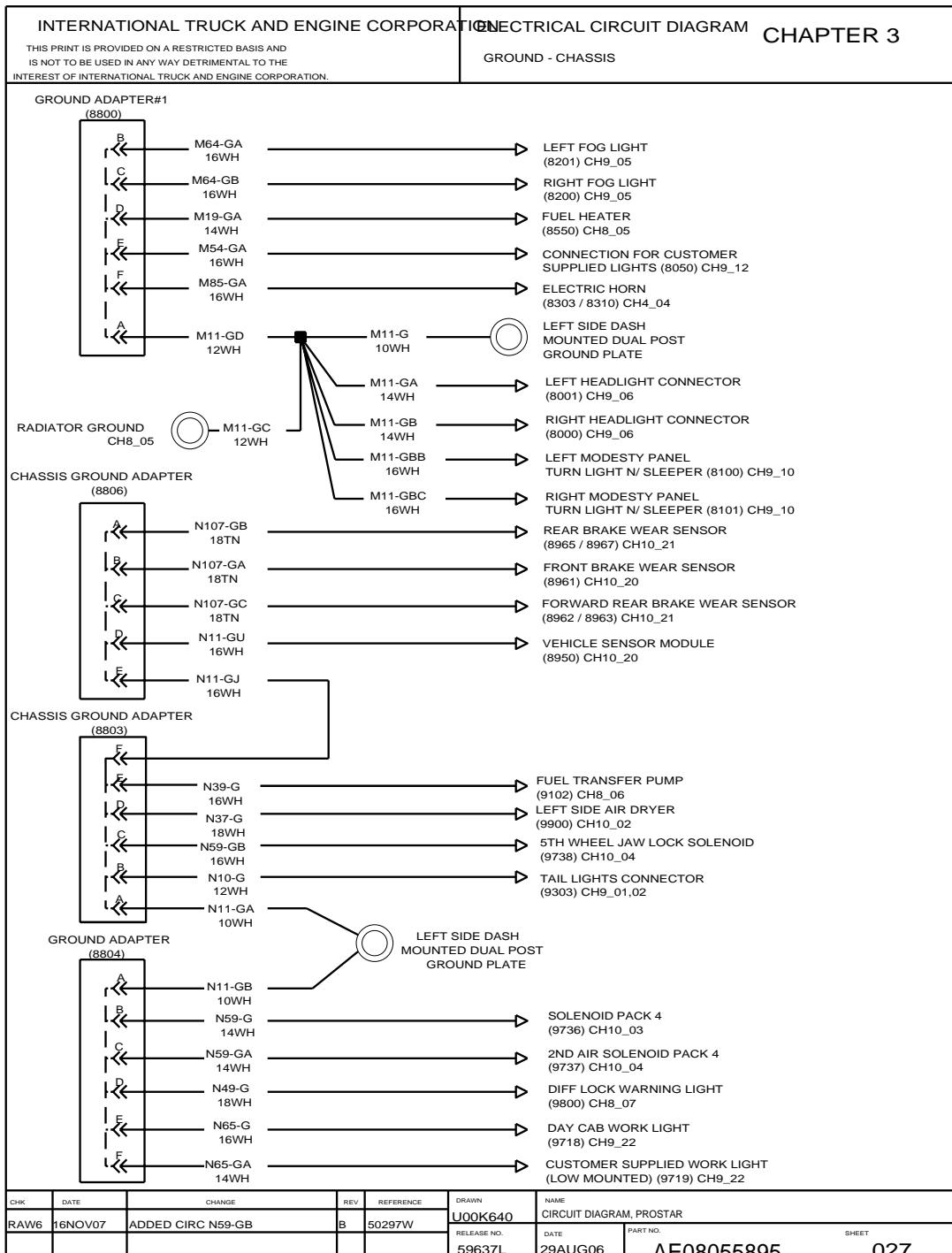


Figure 39 Ground — Cab

3.28. GROUND — CHASSIS, P. 27**Figure 40 Ground — Chassis**

3.29. GROUND — SLEEPER, P. 28

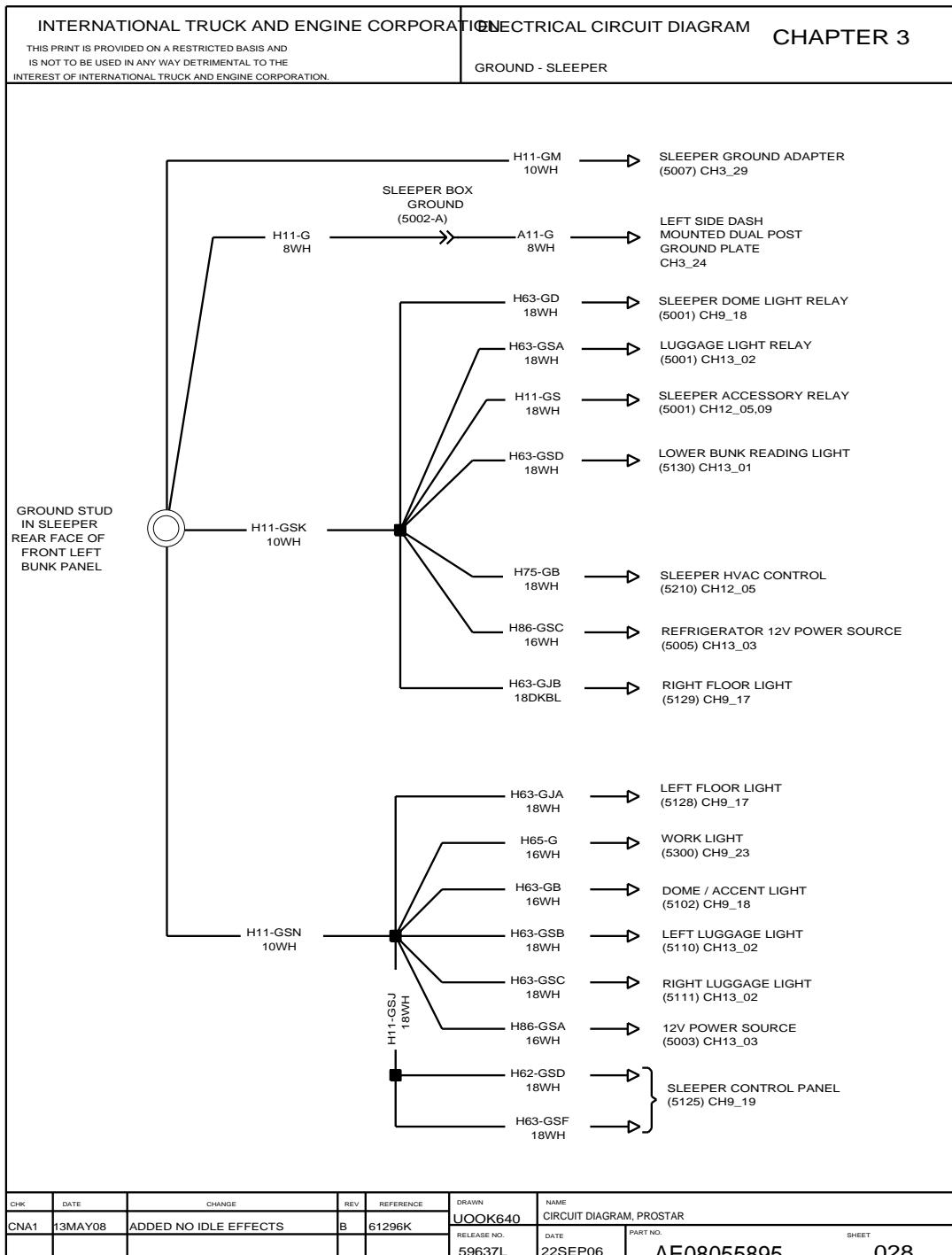
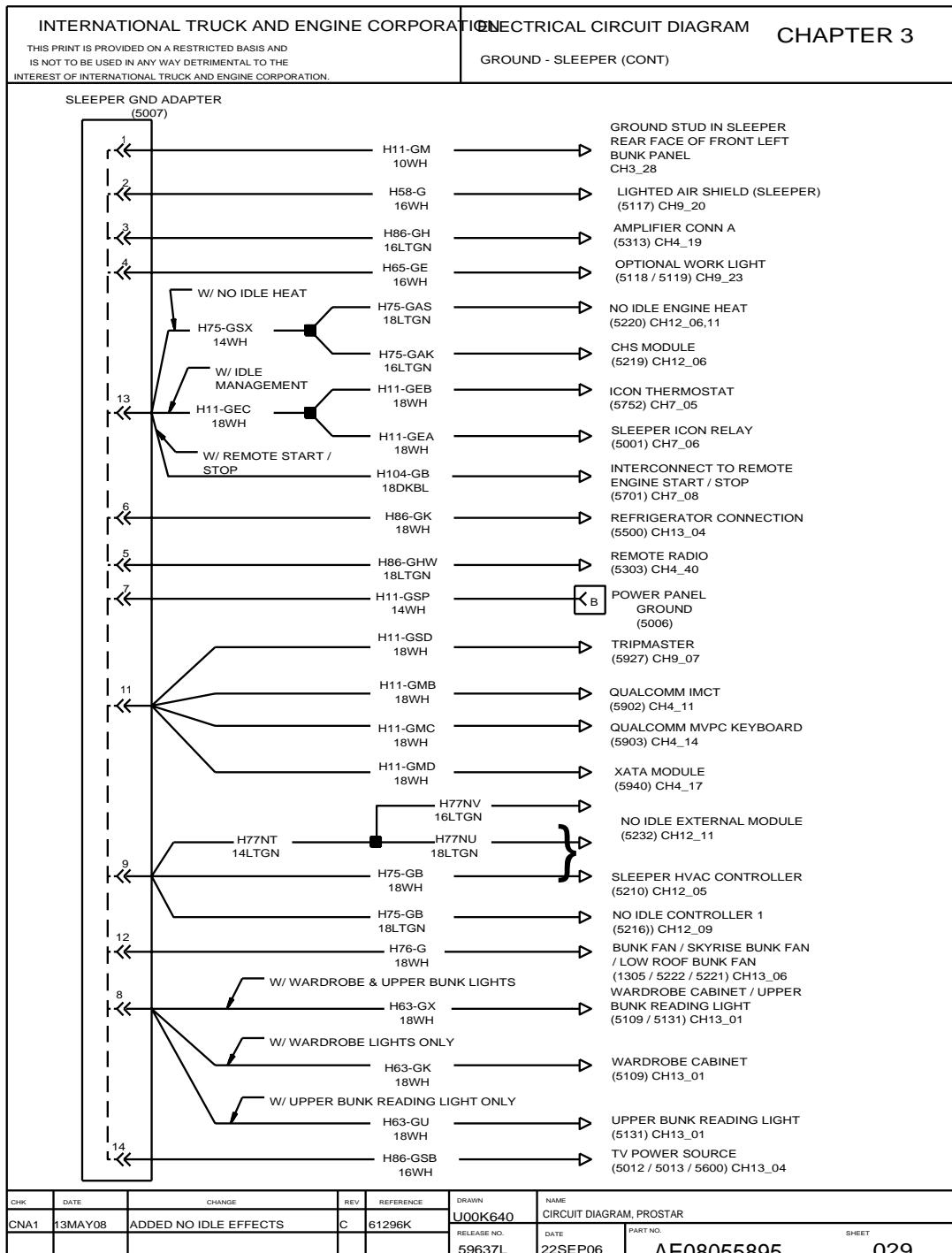


Figure 41 Ground — Sleeper

3.30. GROUND — SLEEPER, P. 29**Figure 42 Ground — Sleeper**

3.31. ENGINE GROUND — IBB ENGINE, P. 30

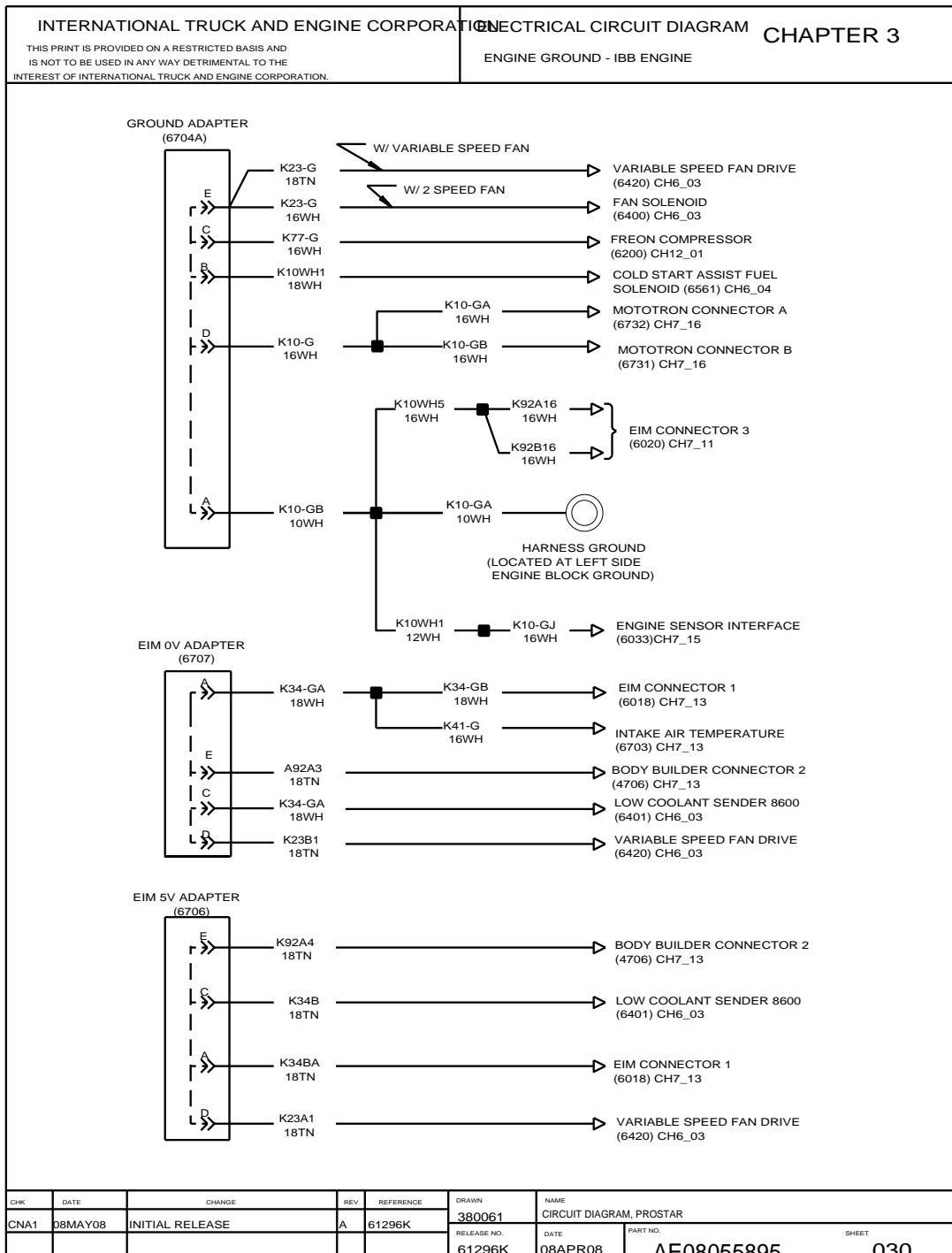


Figure 43 Engine Ground — IBB Engine

3.32. J1939 DATA LINK — IBB ENGINE, P. 31

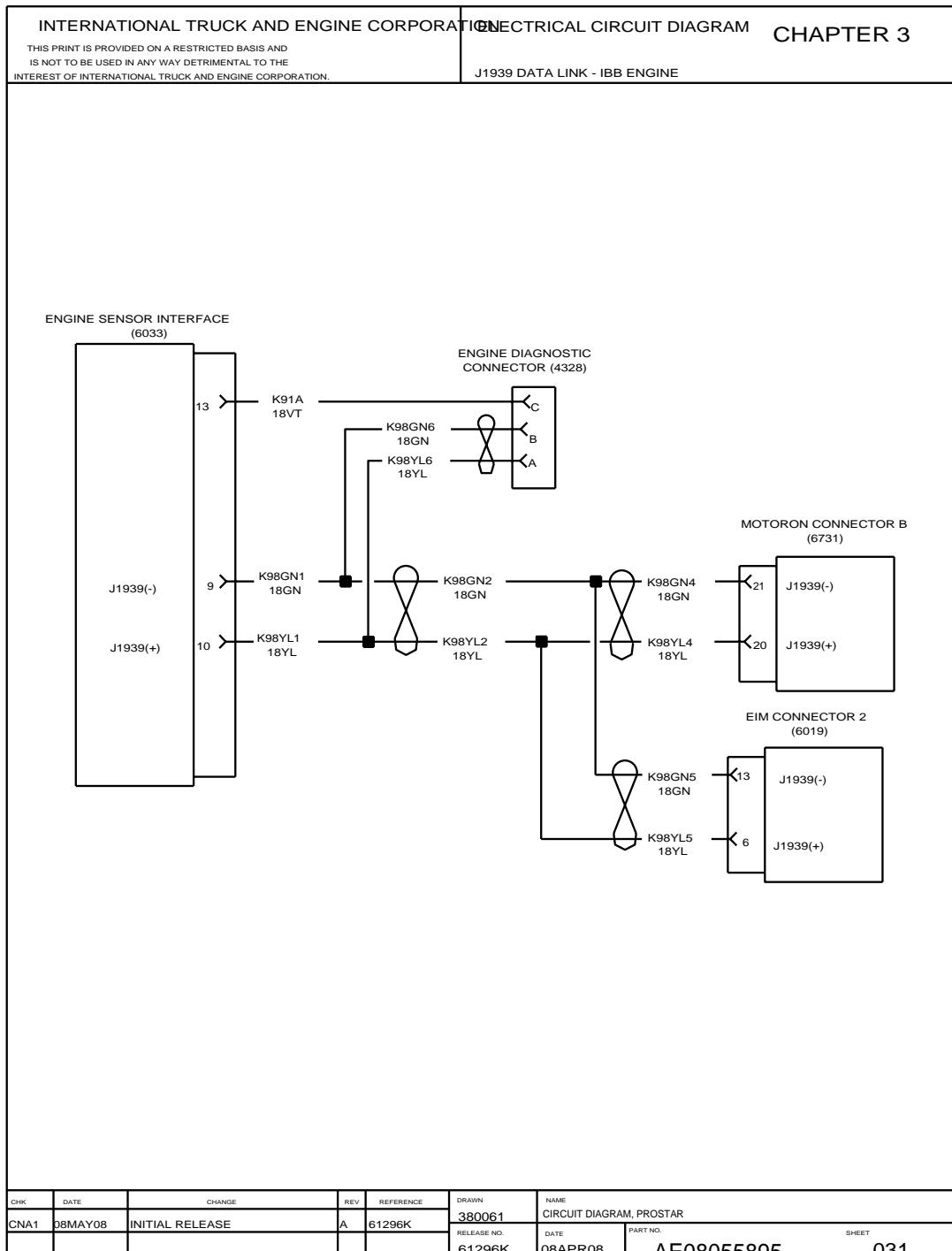


Figure 44 J1939 Data Link — IBB Engine

4. CAB ACCESSORIES (CHAPTER 4)

4.1. CB POWER RADIO, P. 1

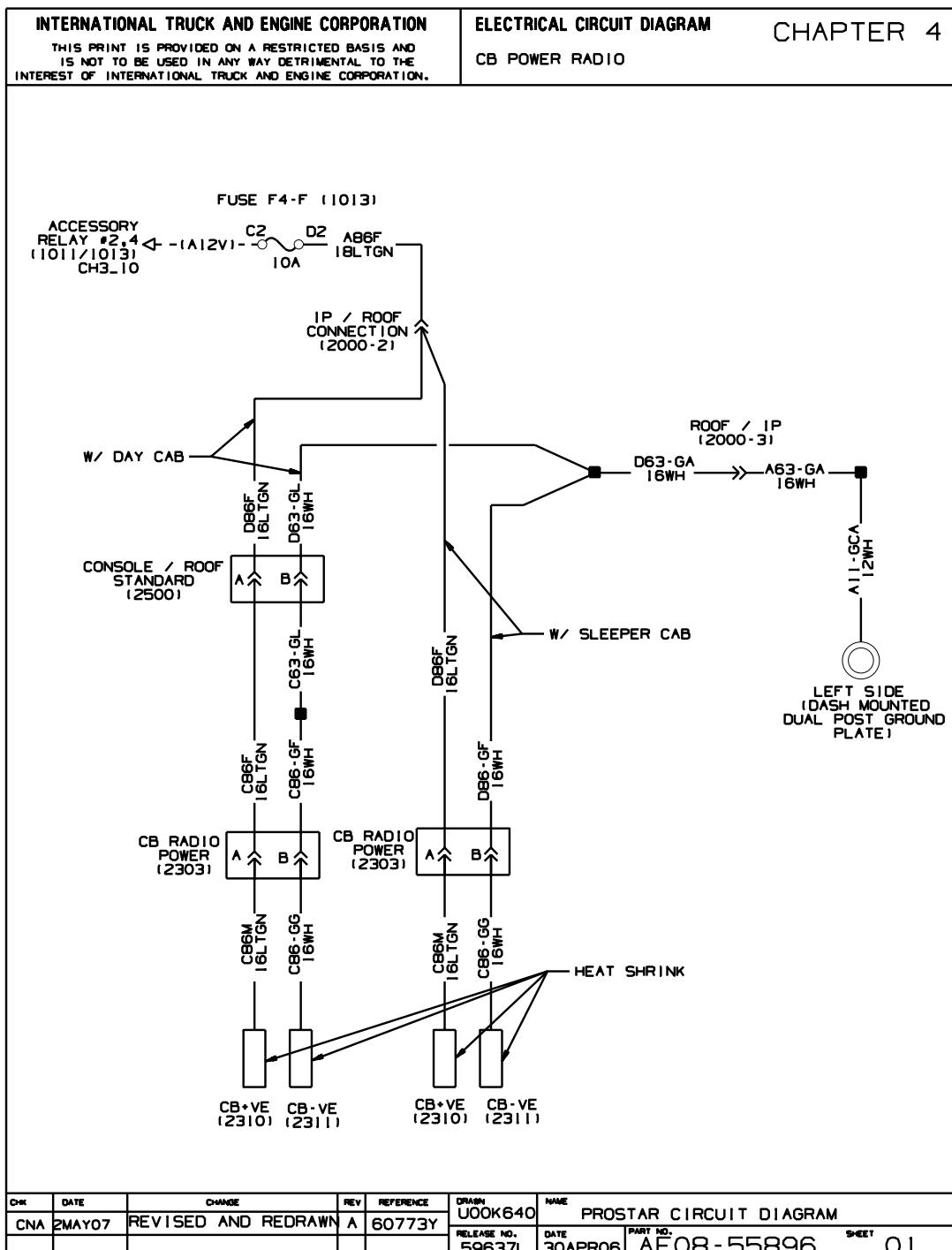


Figure 45 CB Power Radio

4.2. CIGAR LIGHTER AND TEMPERATURE DISPLAY, P. 2

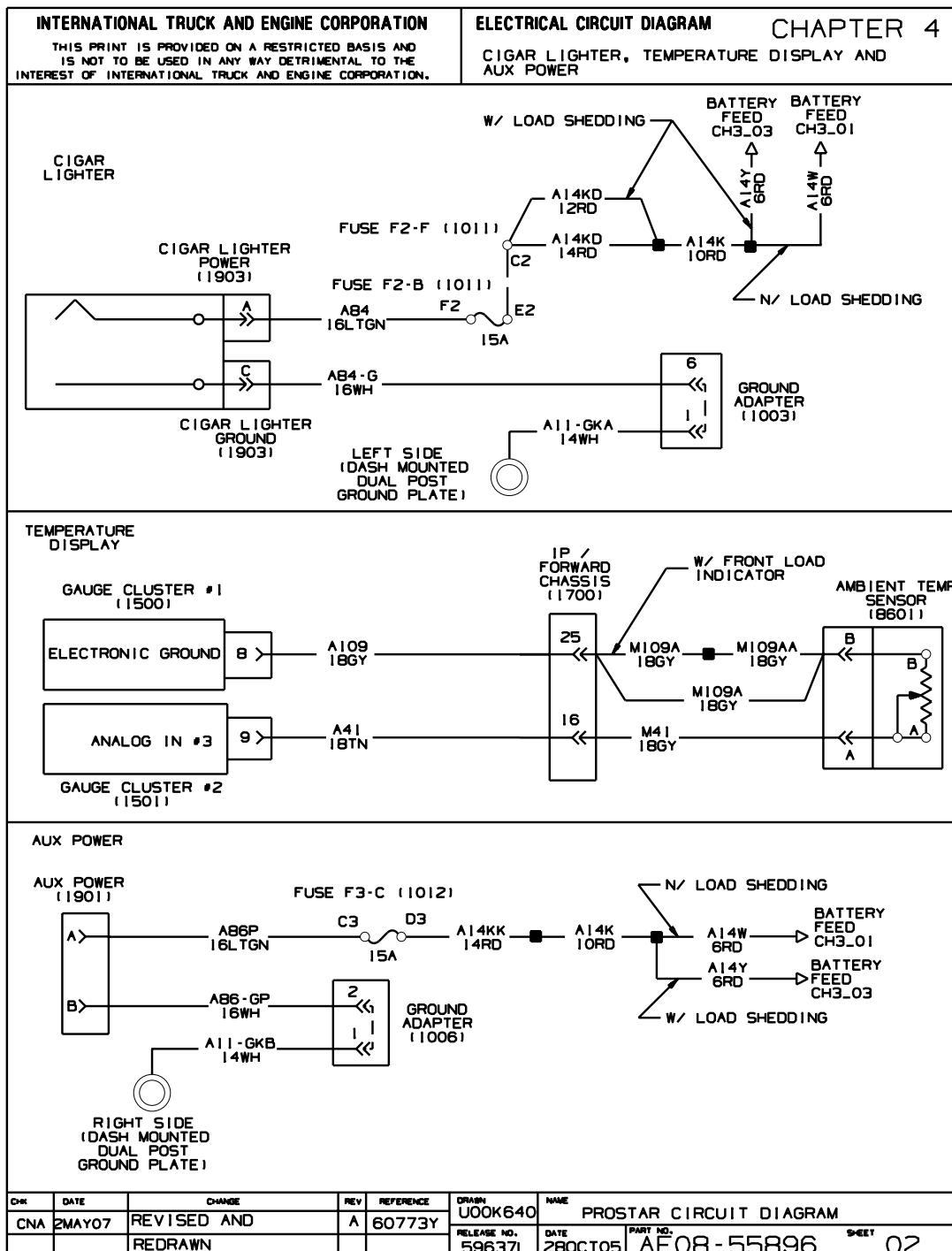


Figure 46 Cigar Lighter and Temperature Display

4.3. ELECTRIC WINDOWS AND DOOR LOCKS, P. 3

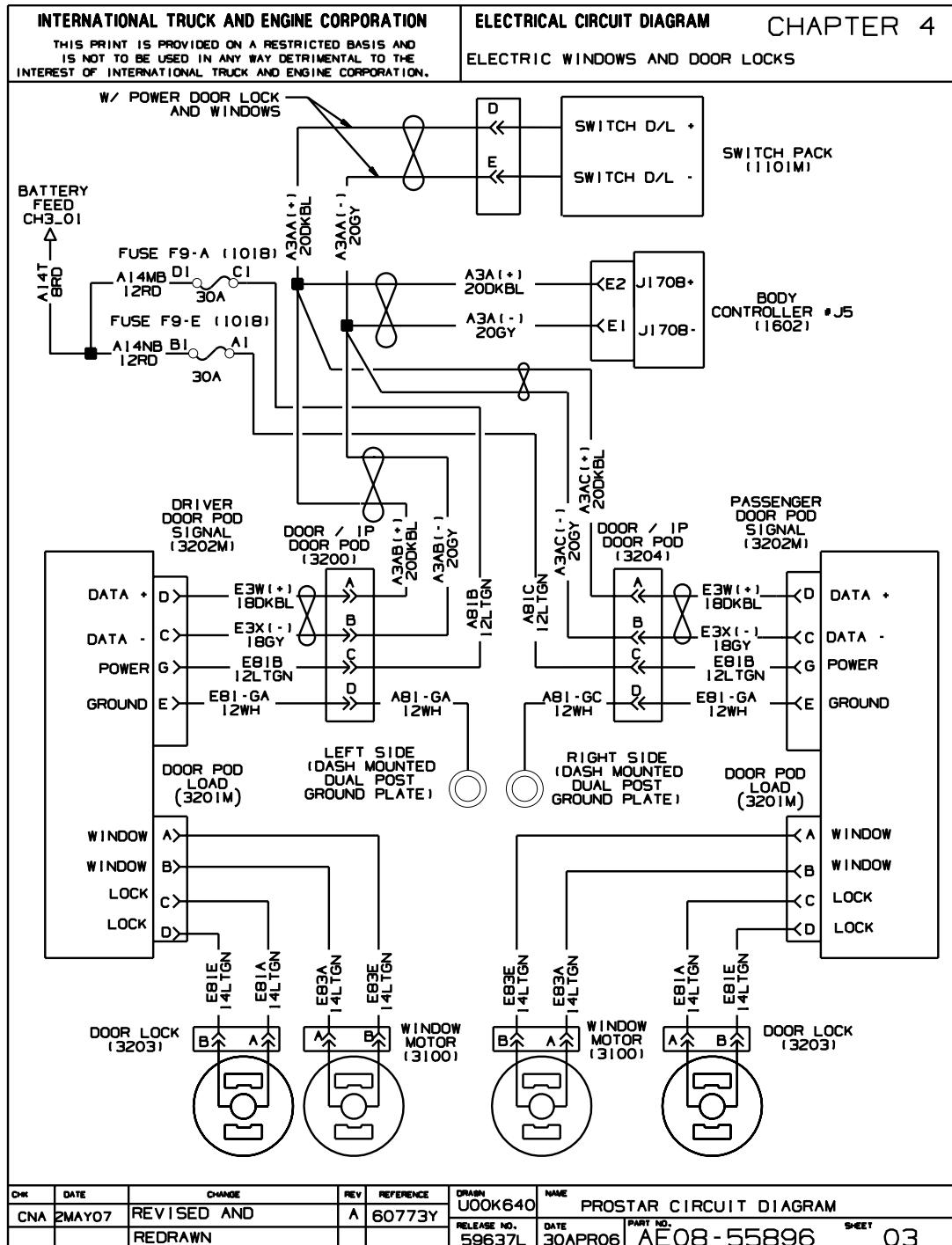


Figure 47 Electric Windows and Door Locks

4.4. ELECTRIC HORN, P. 4

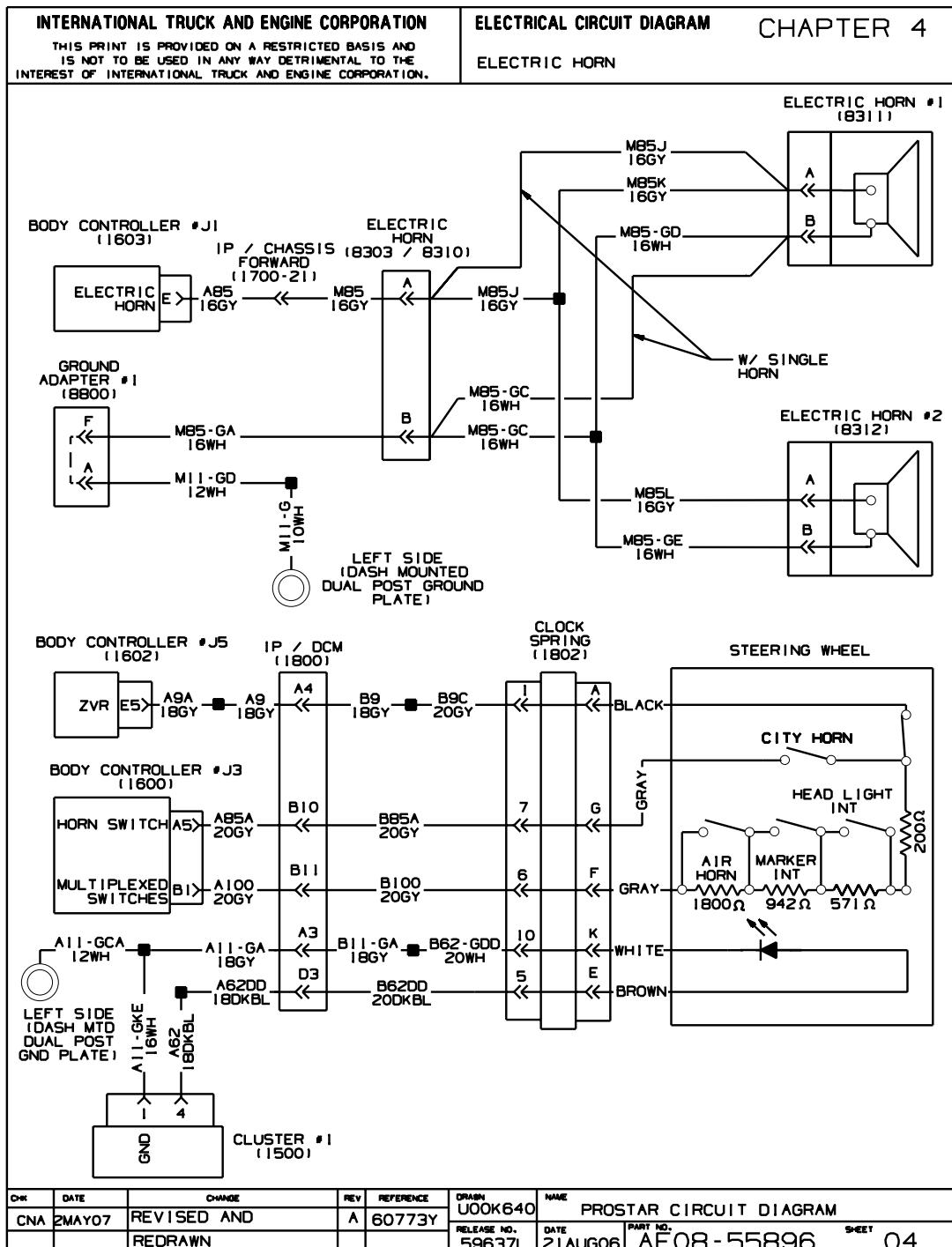


Figure 48 Electric Horn

4.5. MIRRORS HEATED AND LIGHTED, P. 5

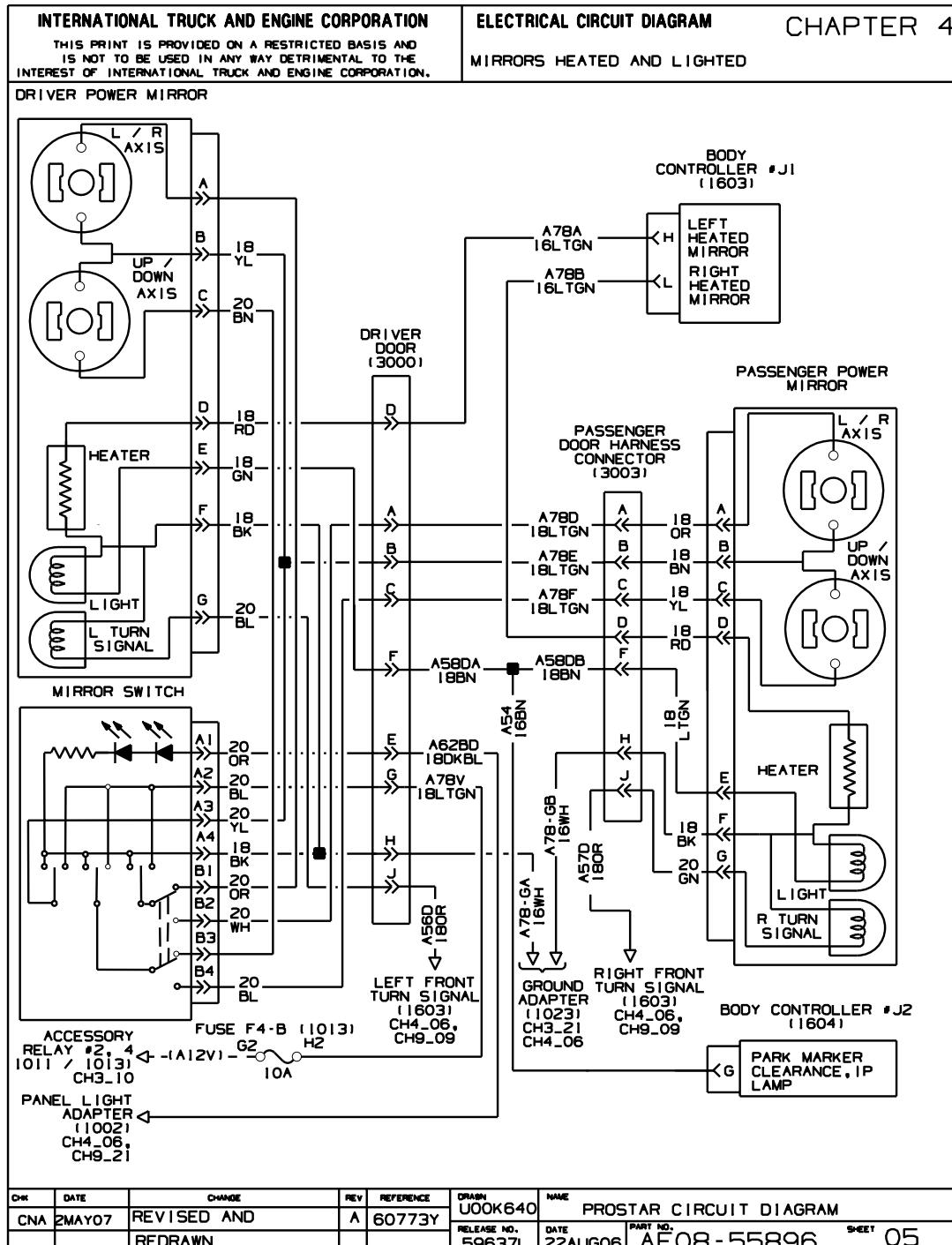


Figure 49 Mirrors Heated and Lighted

4.6. MIRRORS HEATED AND LIGHTED, P. 6

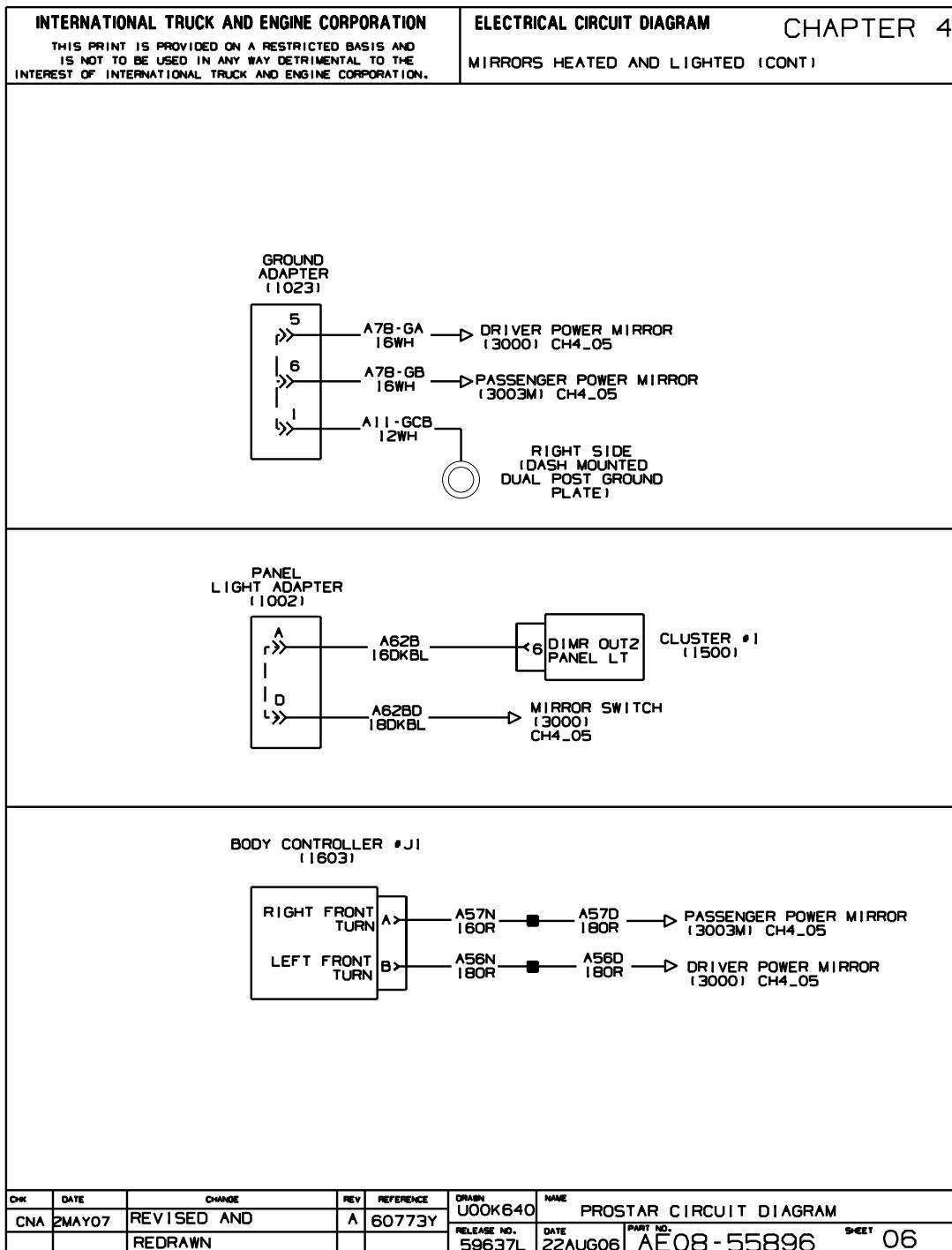


Figure 50 Mirrors Heated and Lighted

4.7. TELEMATICS, P. 7

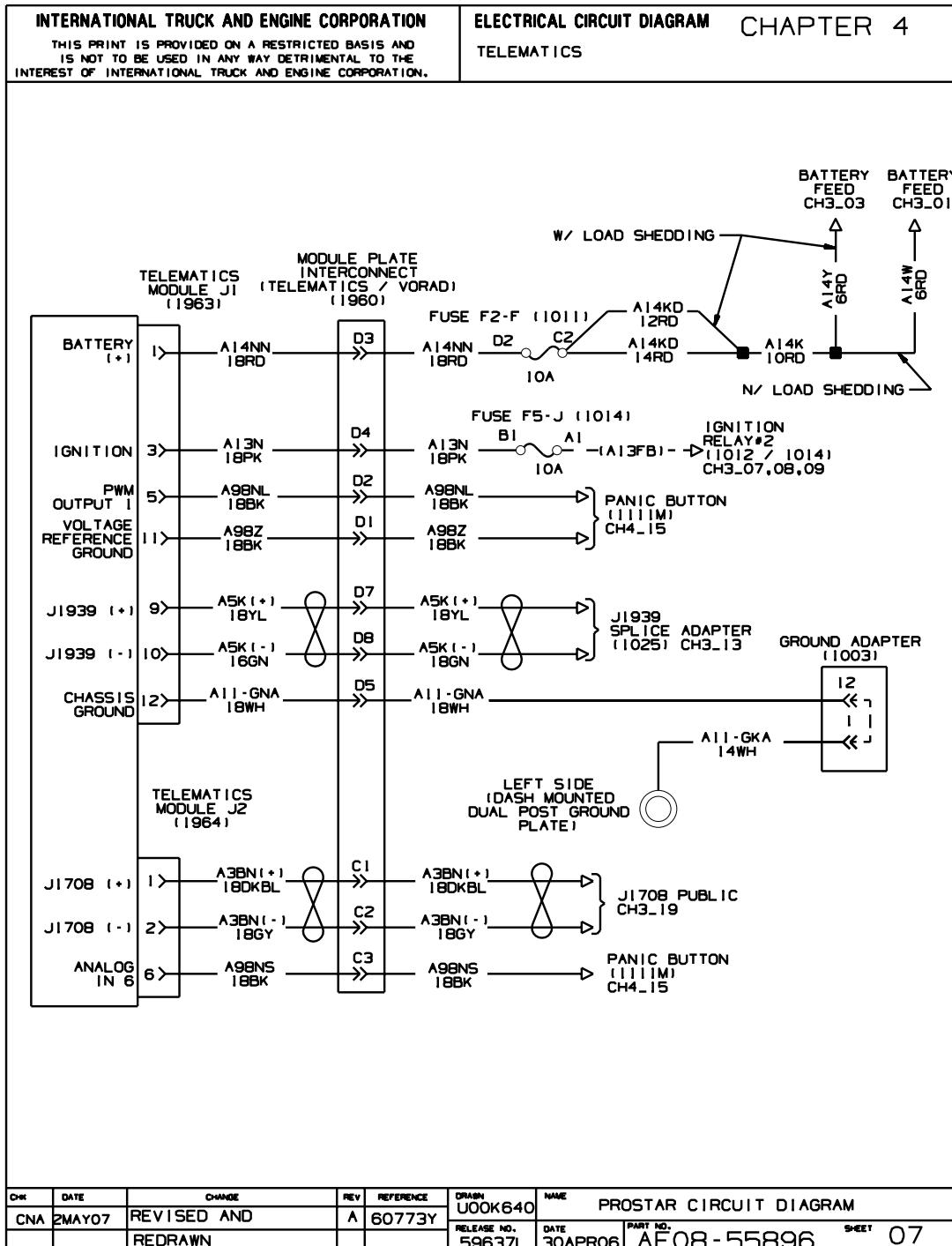


Figure 51 Telematics

4.8. SATELLITE COMMUNICATION SYSTEM — QUALCOMM TMCT DAYCAB, P. 8

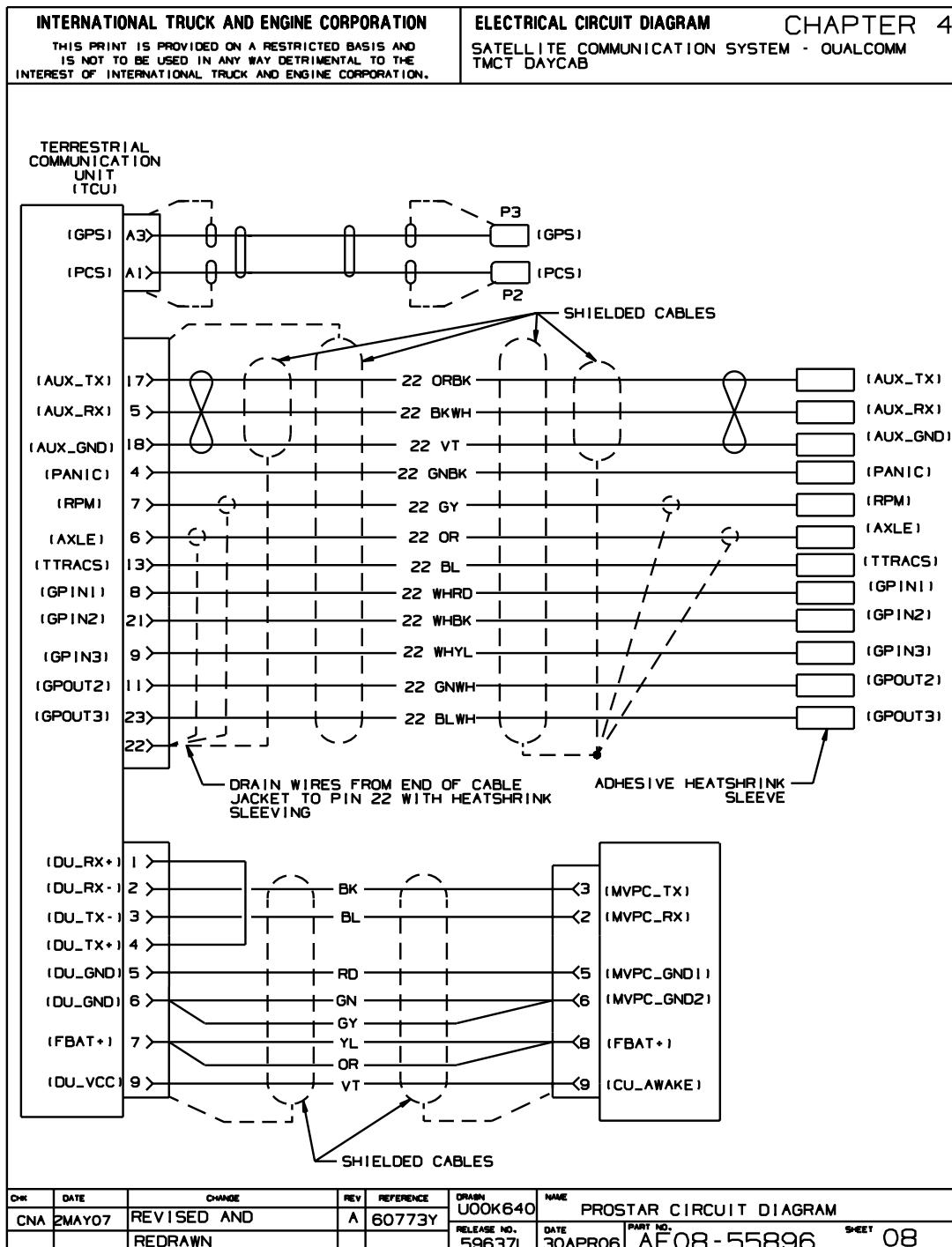


Figure 52 Satellite Communication System — Qualcomm TMCT Daycab

4.9. SATELLITE COMMUNICATION SYSTEM — QUALCOMM TMCT DAYCAB, P. 9

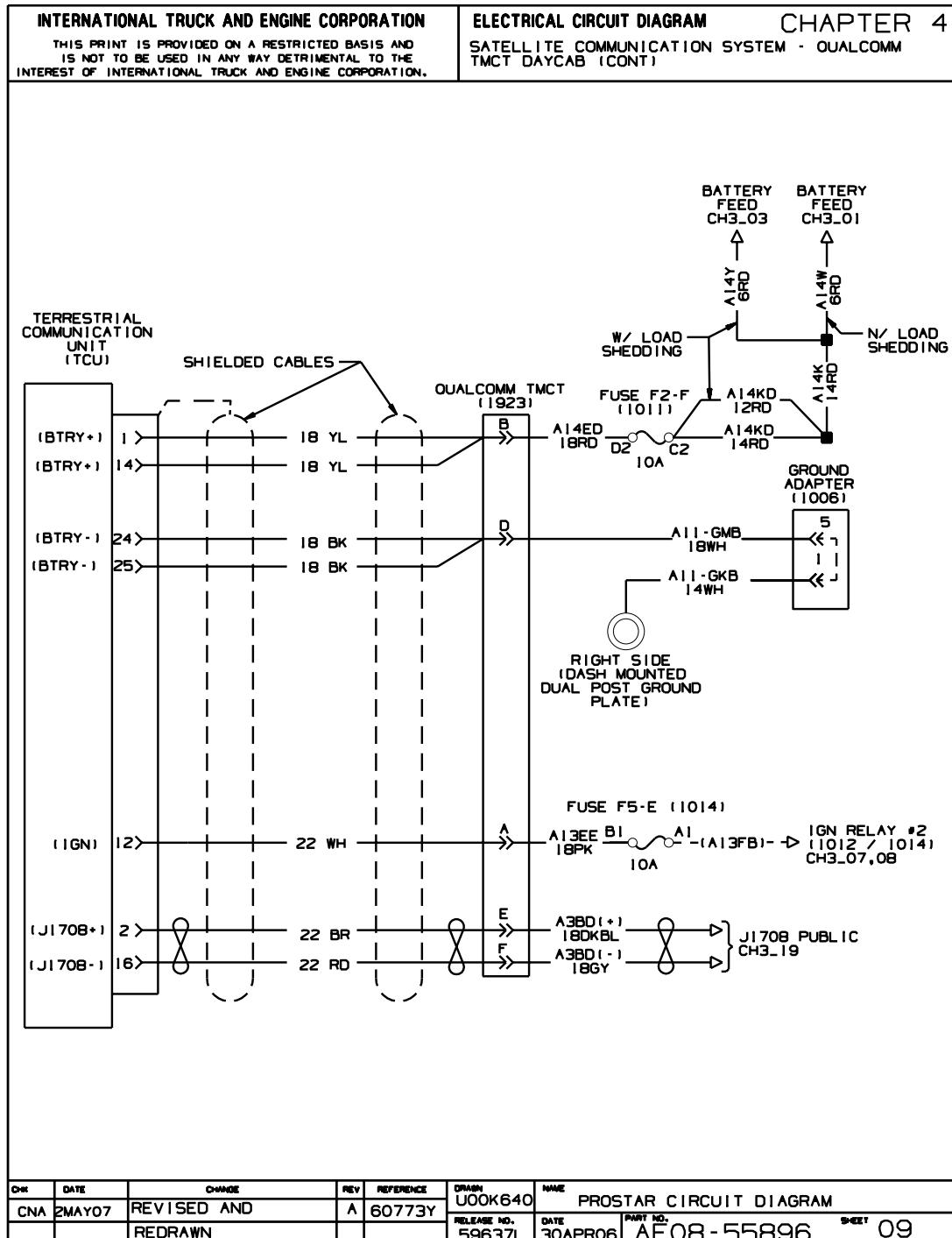


Figure 53 Satellite Communication System — Qualcomm TMCT Daycab

4.10. SATELLITE COMMUNICATION SYSTEM — QUALCOMM TMCT SLEEPER, P. 10

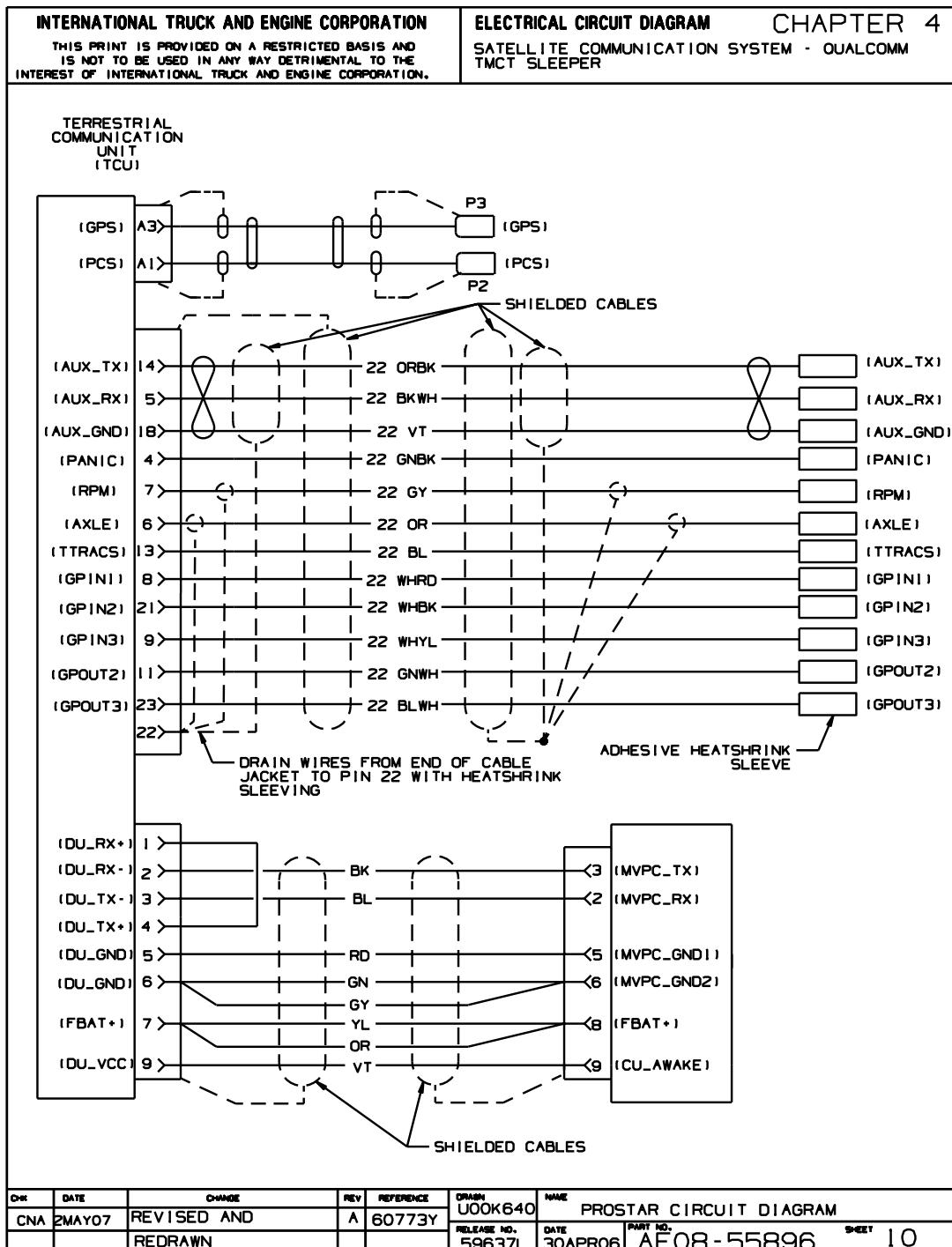


Figure 54 Satellite Communication System — Qualcomm TMCT Sleeper

4.11. SATELLITE COMMUNICATION SYSTEM — QUALCOMM TMCT SLEEPER, P. 11

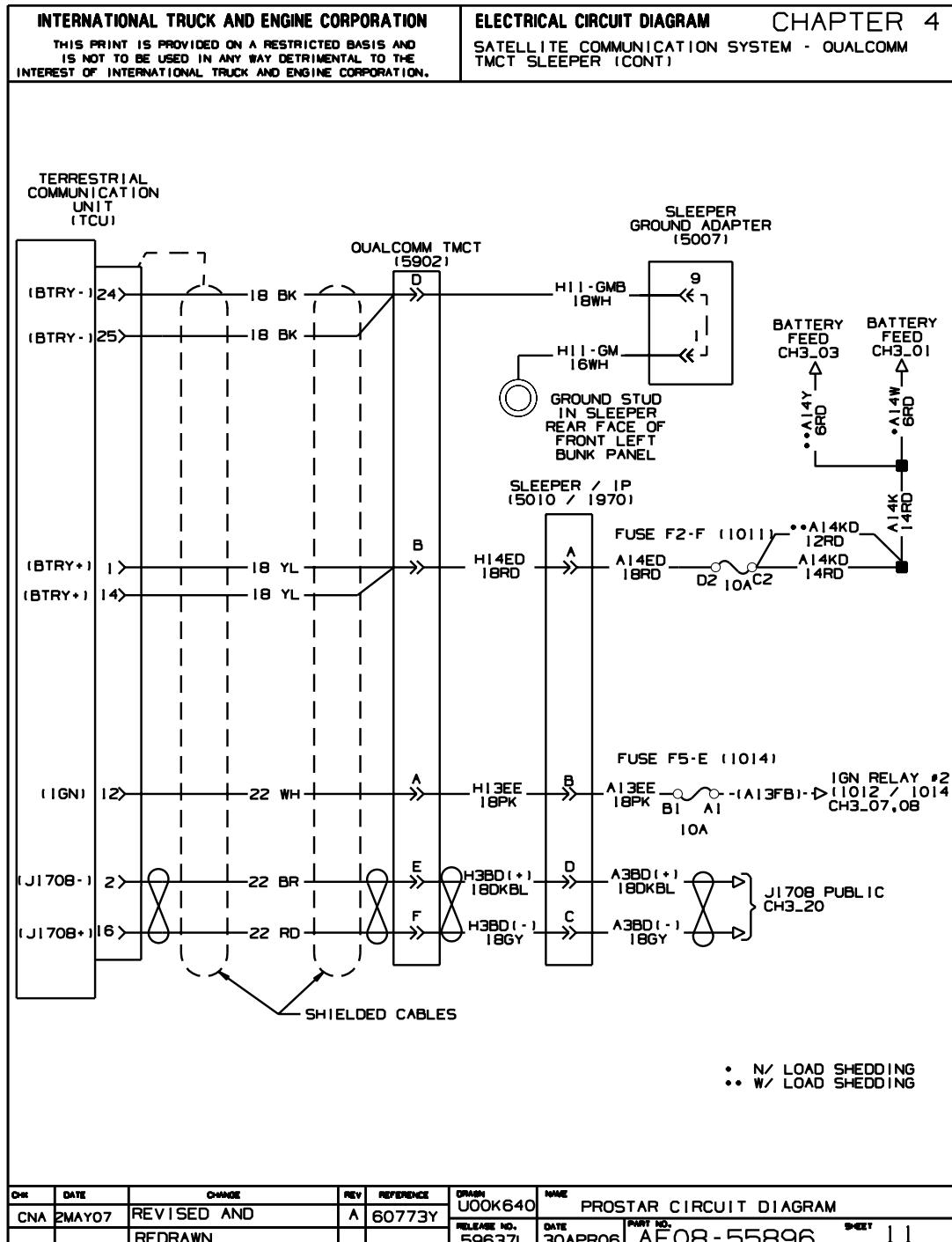


Figure 55 Satellite Communication System — Qualcomm TMCT Sleeper

4.12. SATELLITE COMMUNICATION SYSTEM — QUALCOMM IMCT, P. 12

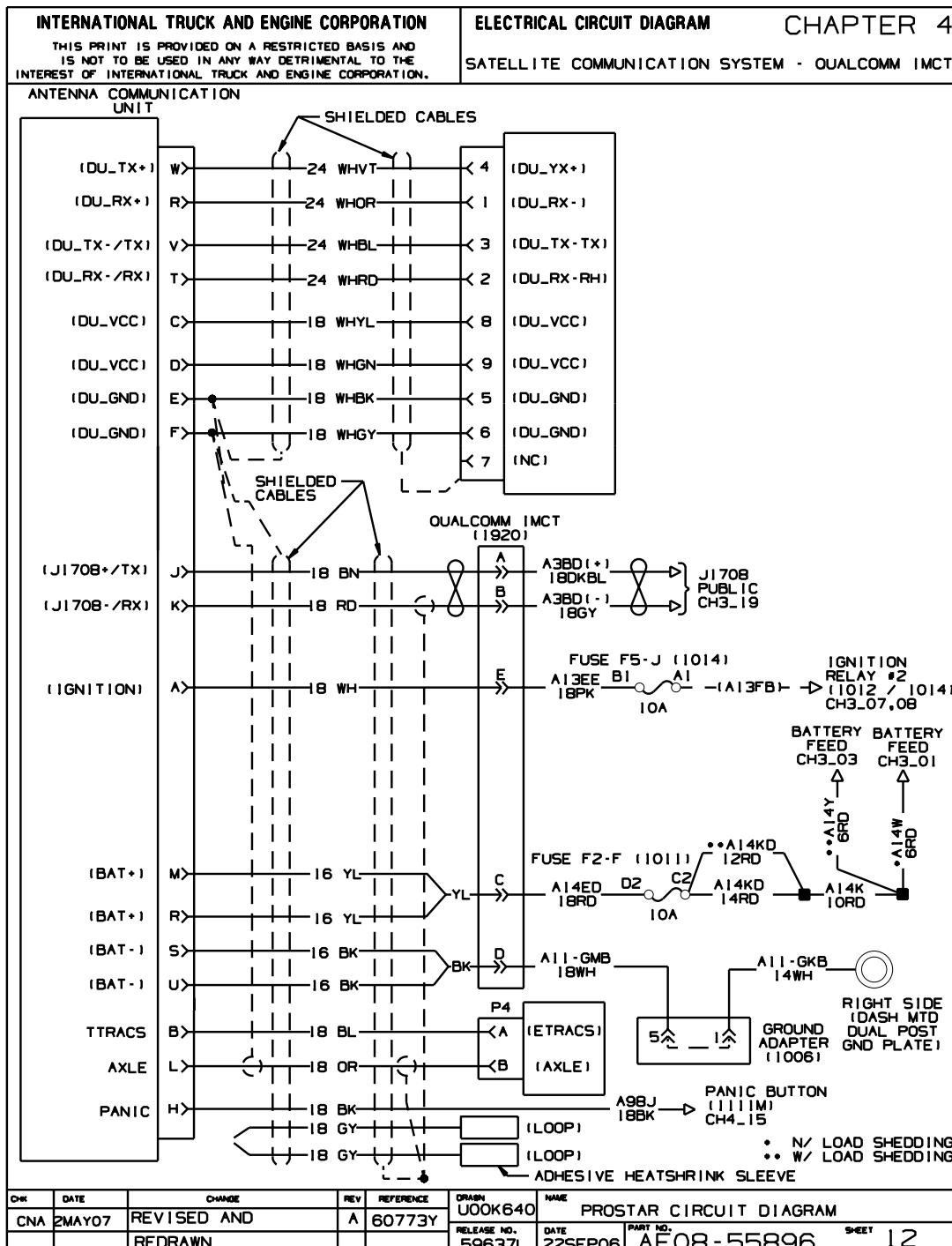


Figure 56 Satellite Communication System — Qualcomm IMCT

4.13. SATELLITE COMMUNICATION SYSTEM — QUALCOMM IMCT, P. 13

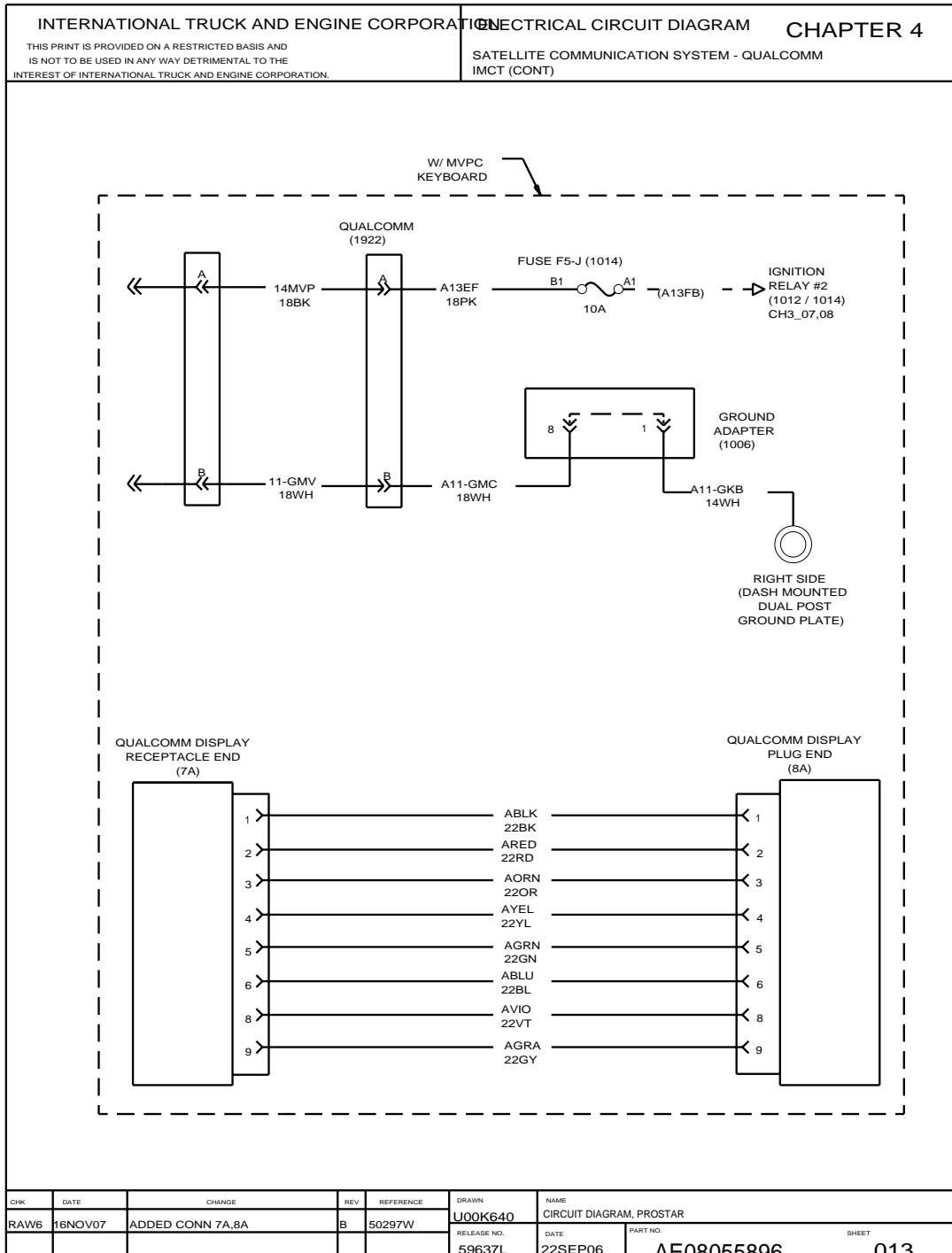


Figure 57 Satellite Communication System — Qualcomm IMCT

4.14. QUALCOMM IMCT — SLEEPER, P. 14

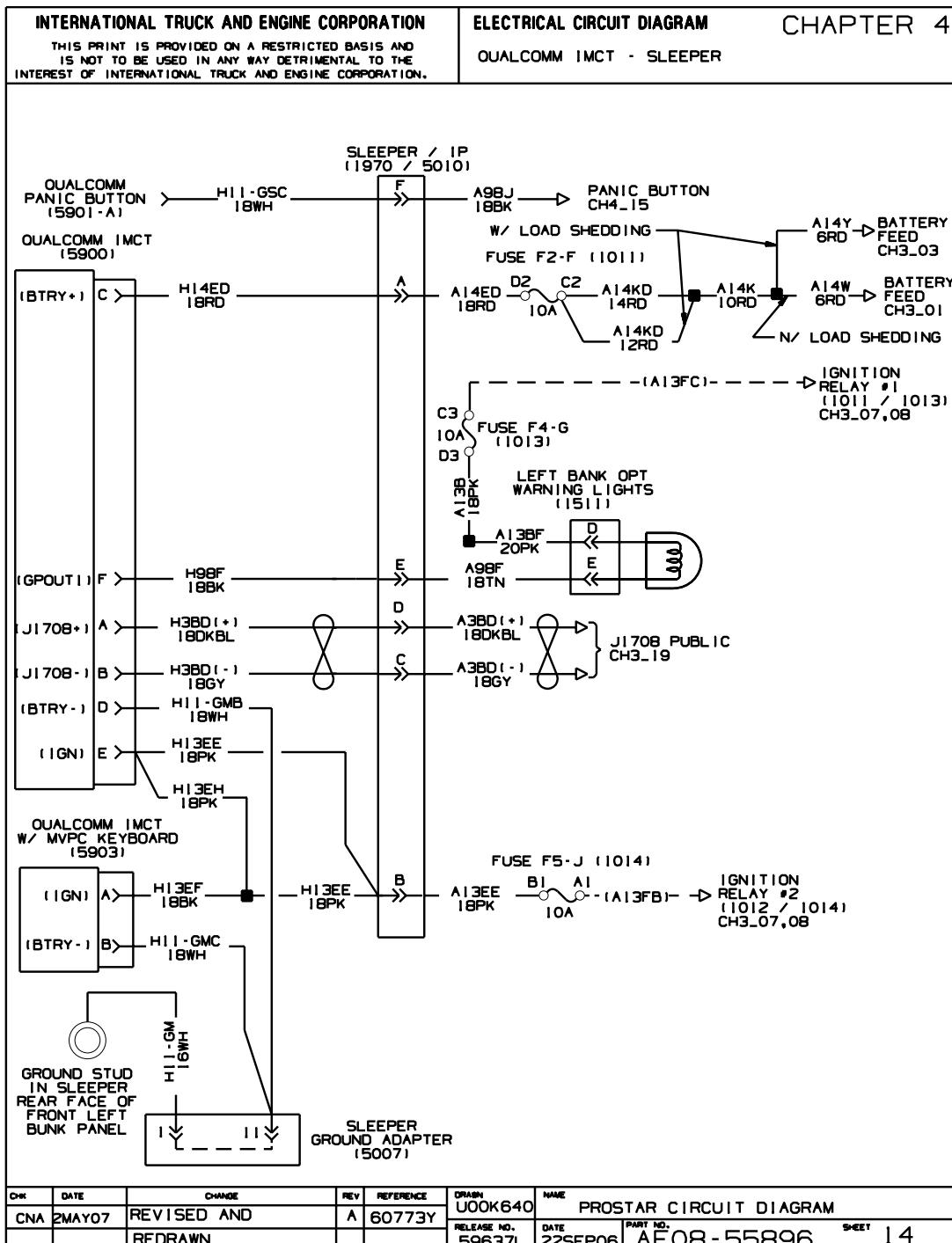


Figure 58 Qualcomm IMCT — Sleeper

4.15. PANIC BUTTON, P. 15

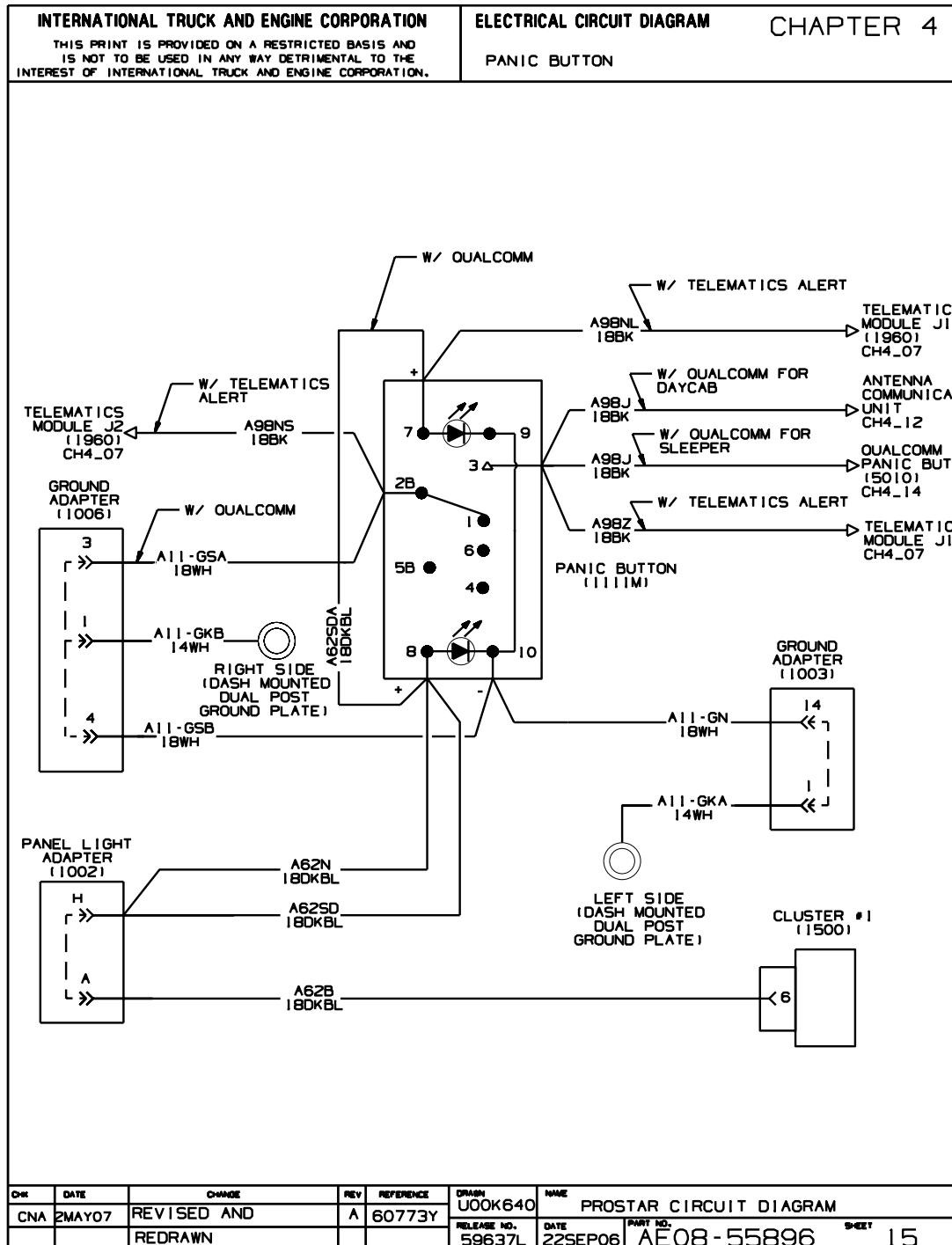


Figure 59 Panic Button

4.16. SATELLITE COMMUNICATION SYSTEM — XATA WITH DAYCAB, P. 16

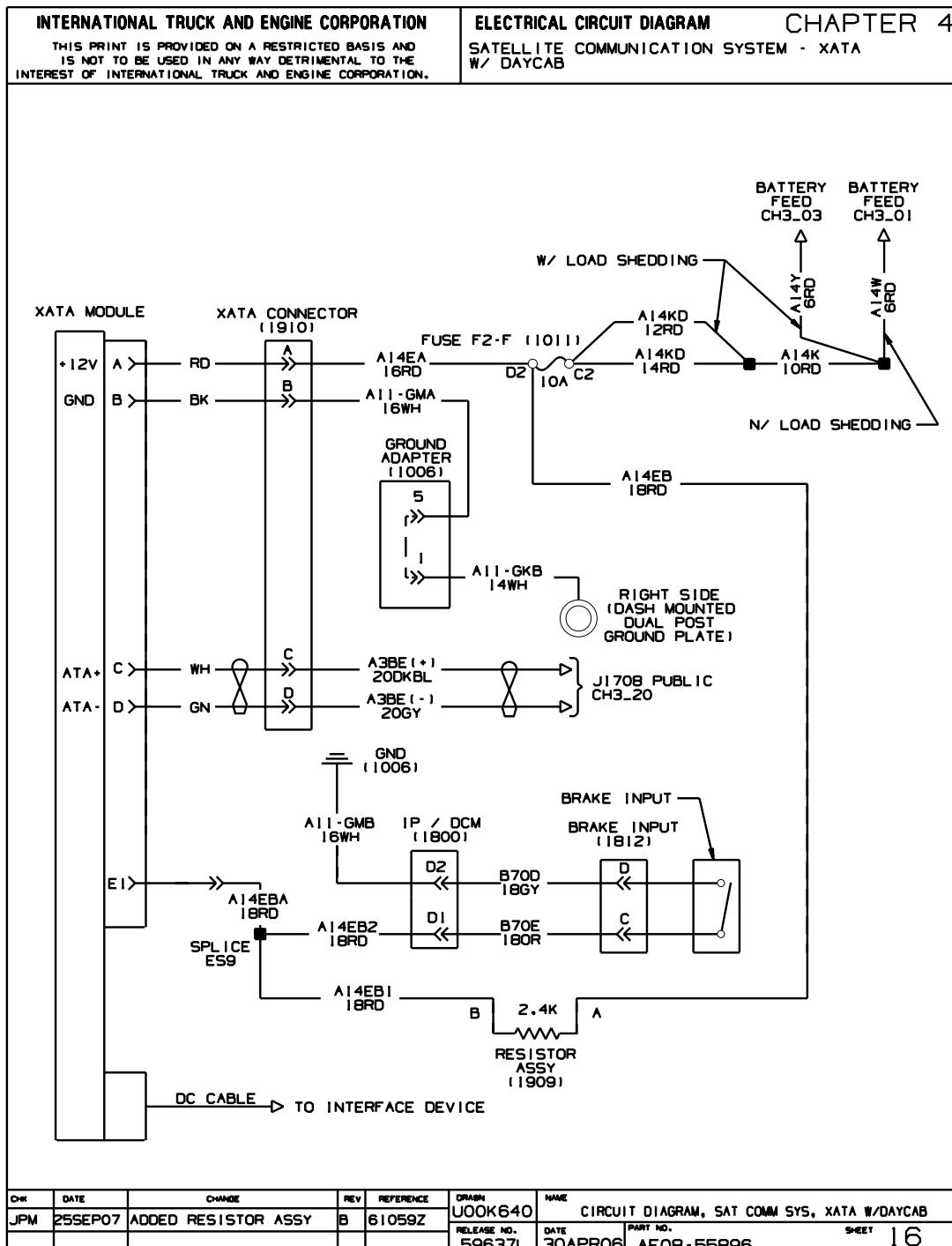


Figure 60 Satellite Communication System — XATA with Daycab

4.17. SATELLITE COMMUNICATION SYSTEM — XATA WITH SLEEPER, P. 17

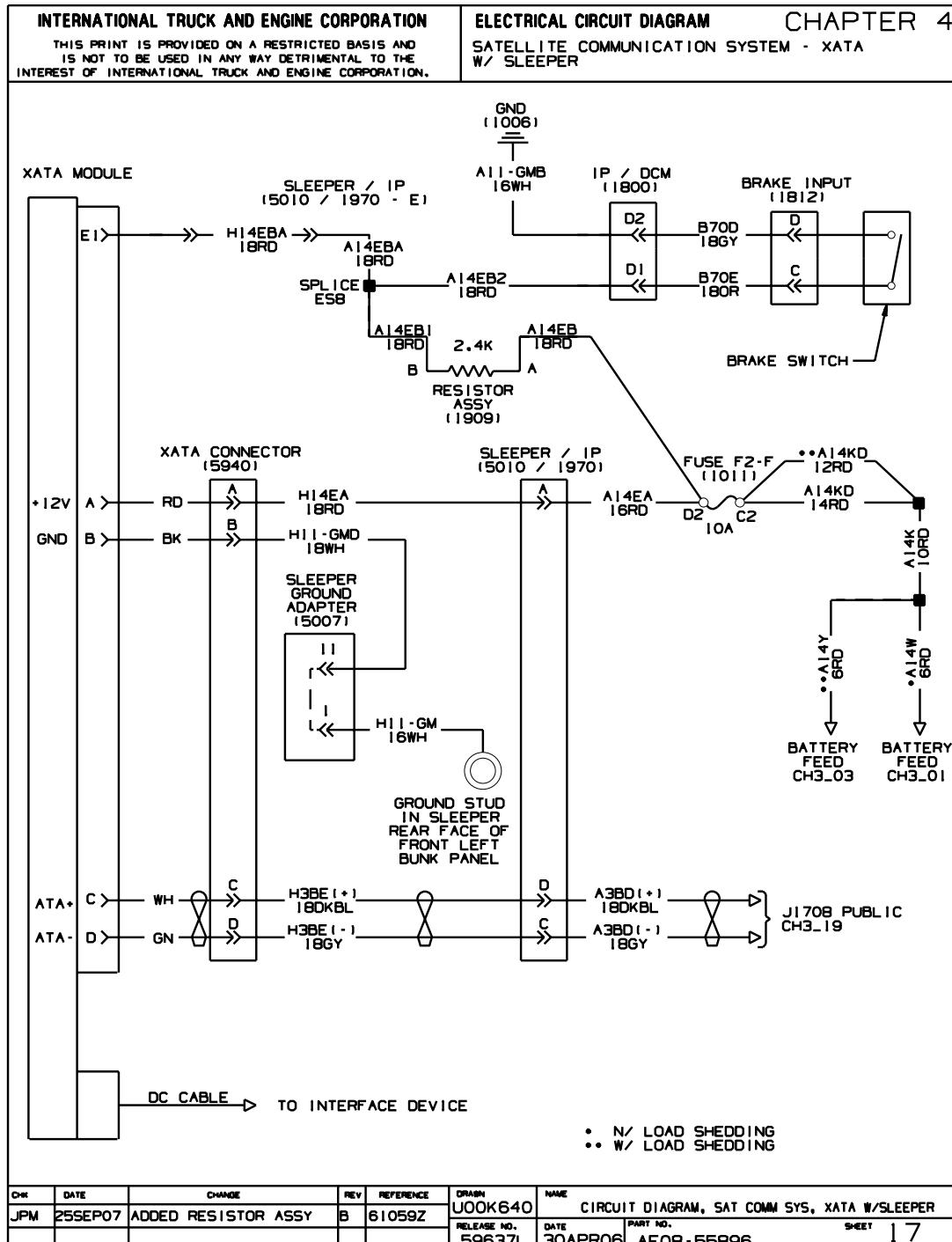


Figure 61 Satellite Communication System — XATA with Sleeper

4.18. RADIO ENTERTAINMENT, SPEAKERS, P. 18

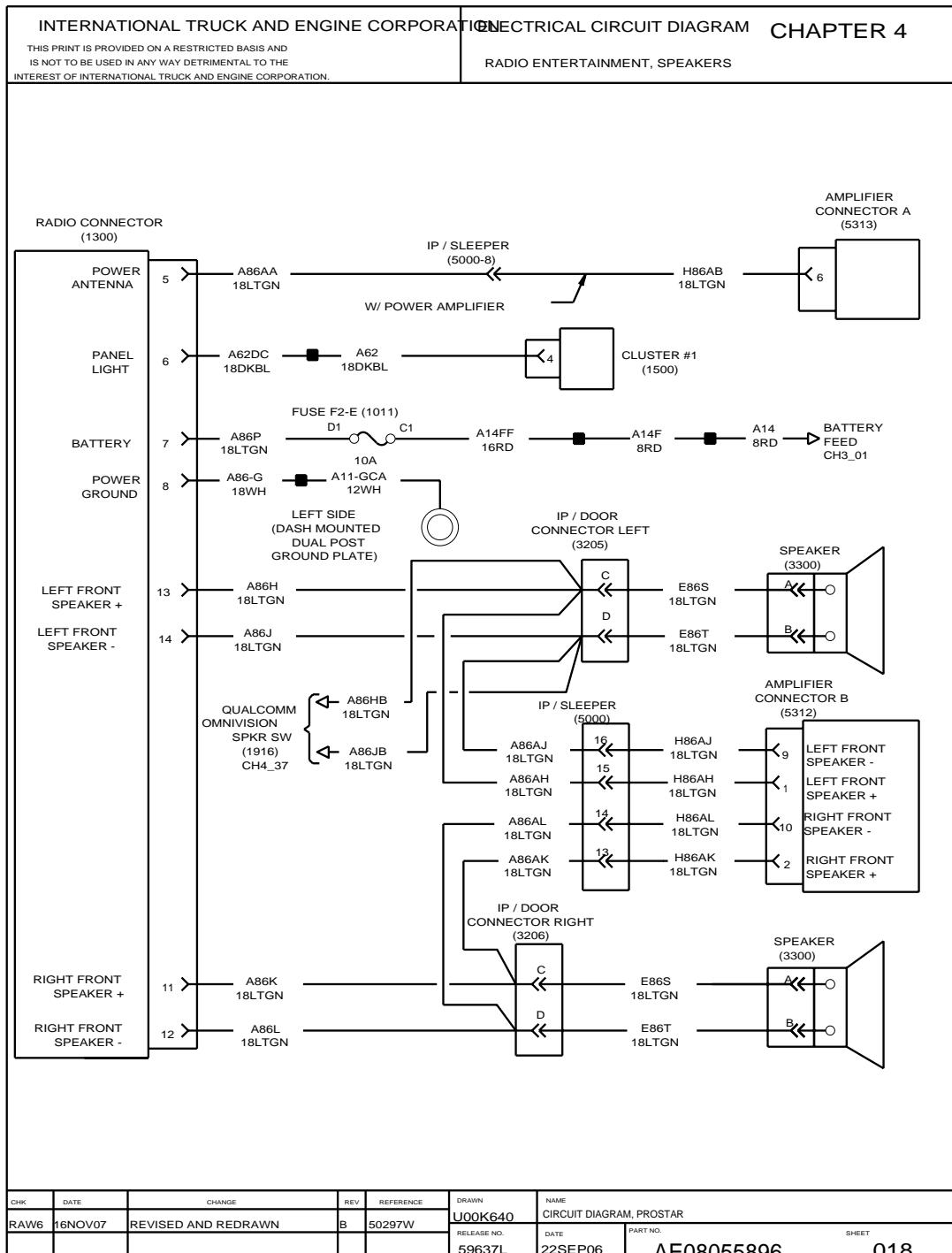


Figure 62 Radio Entertainment, Speakers

4.19. RADIO ENTERTAINMENT, SPEAKERS, P. 18A

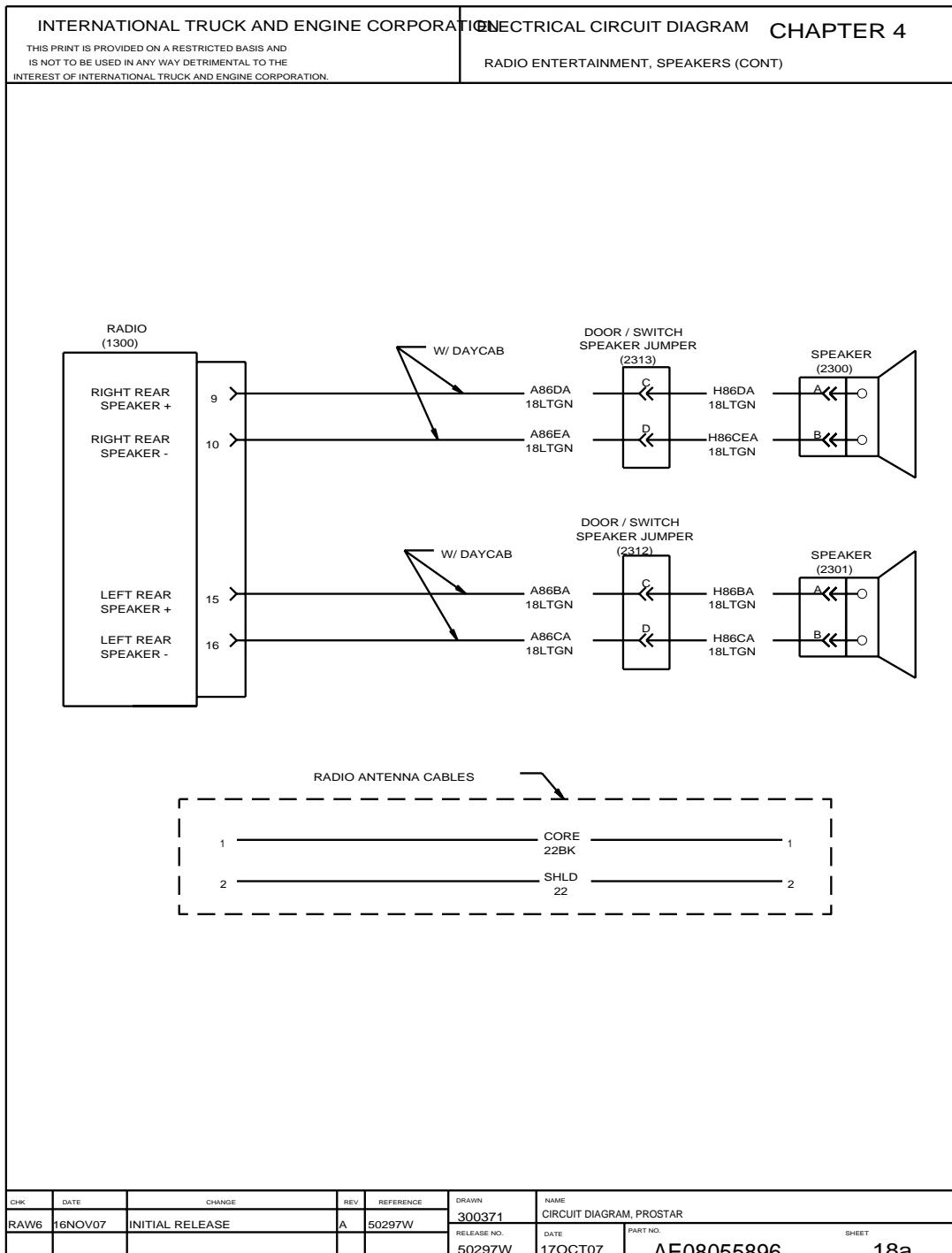


Figure 63 Radio Entertainment, Speakers

4.20. RADIO ENTERTAINMENT, SPEAKERS, P. 19

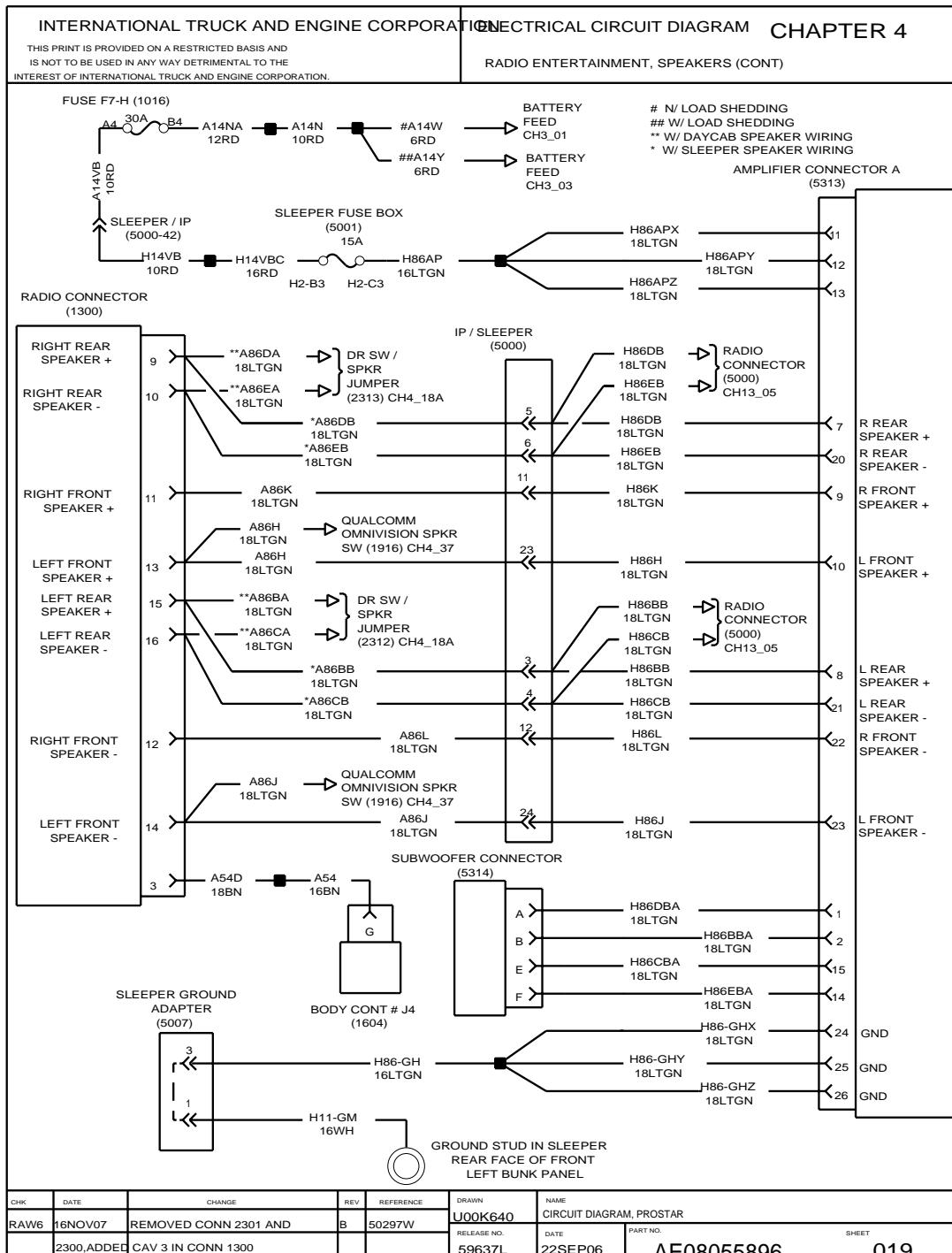


Figure 64 Radio Entertainment, Speakers

4.21. SWITCH PACK, P. 20

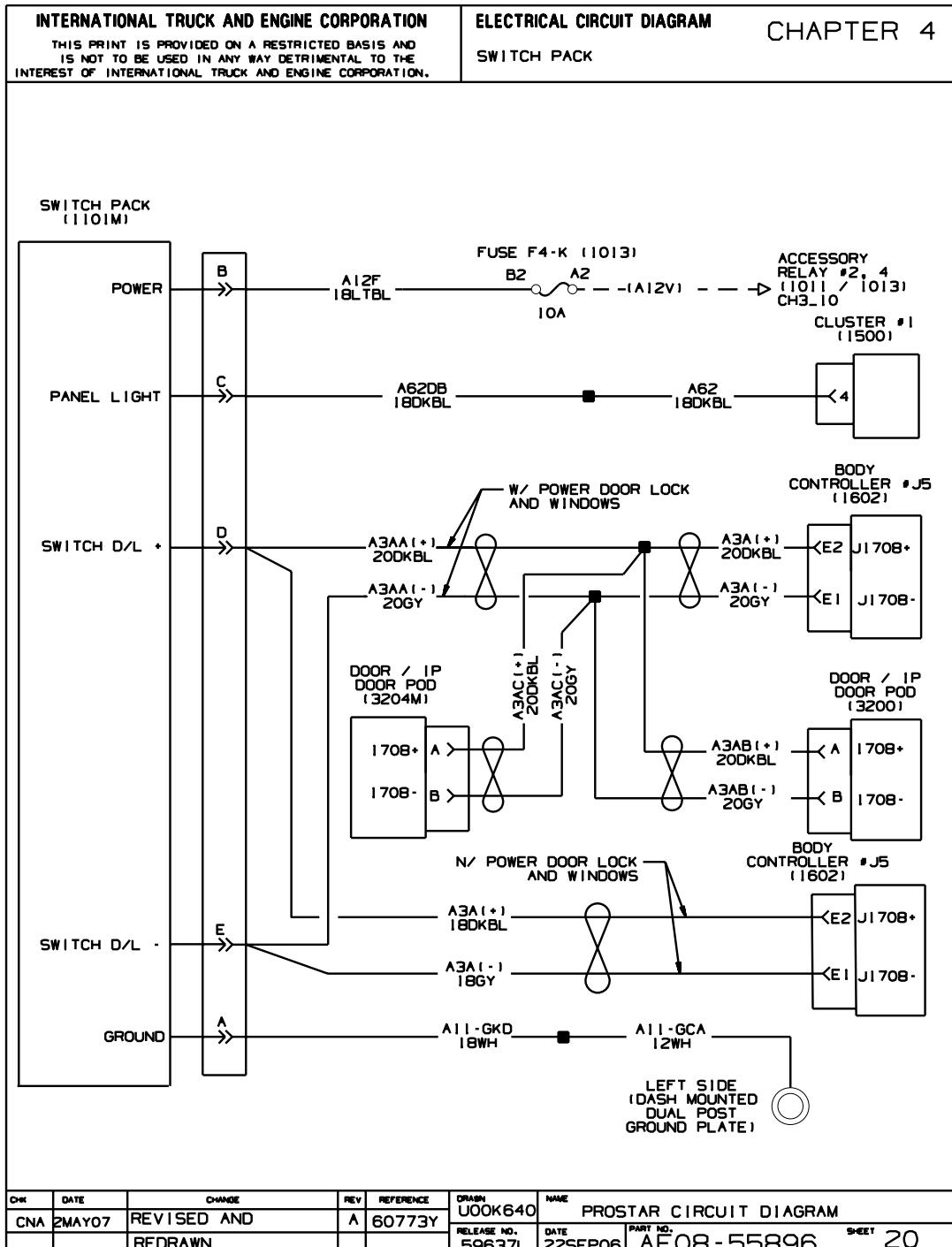


Figure 65 Switch Pack

4.22. WINDSHIELD WIPER MOTOR, P. 21

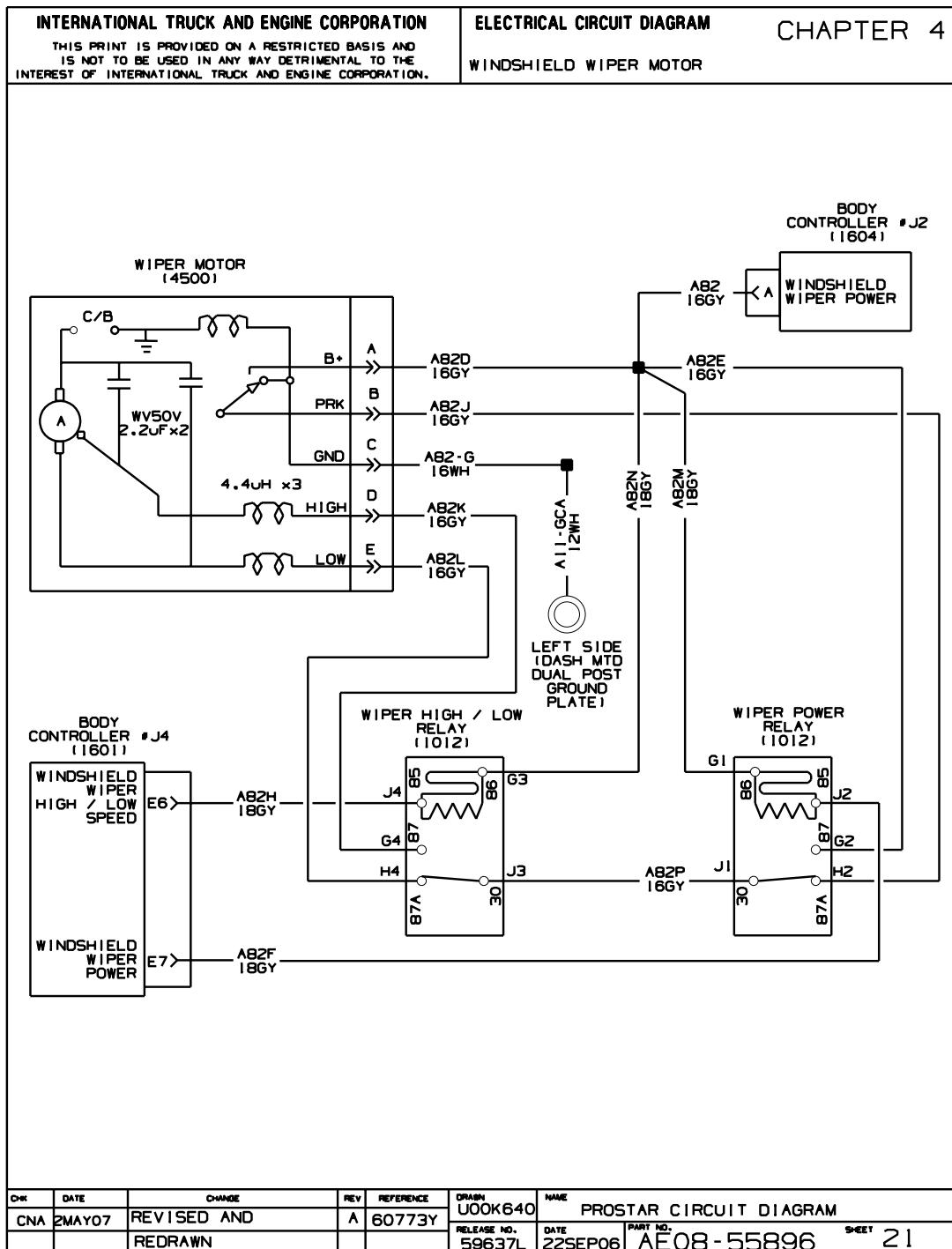


Figure 66 Windshield Wiper Motor

4.23. WINDSHIELD WASHER PUMP, P. 22

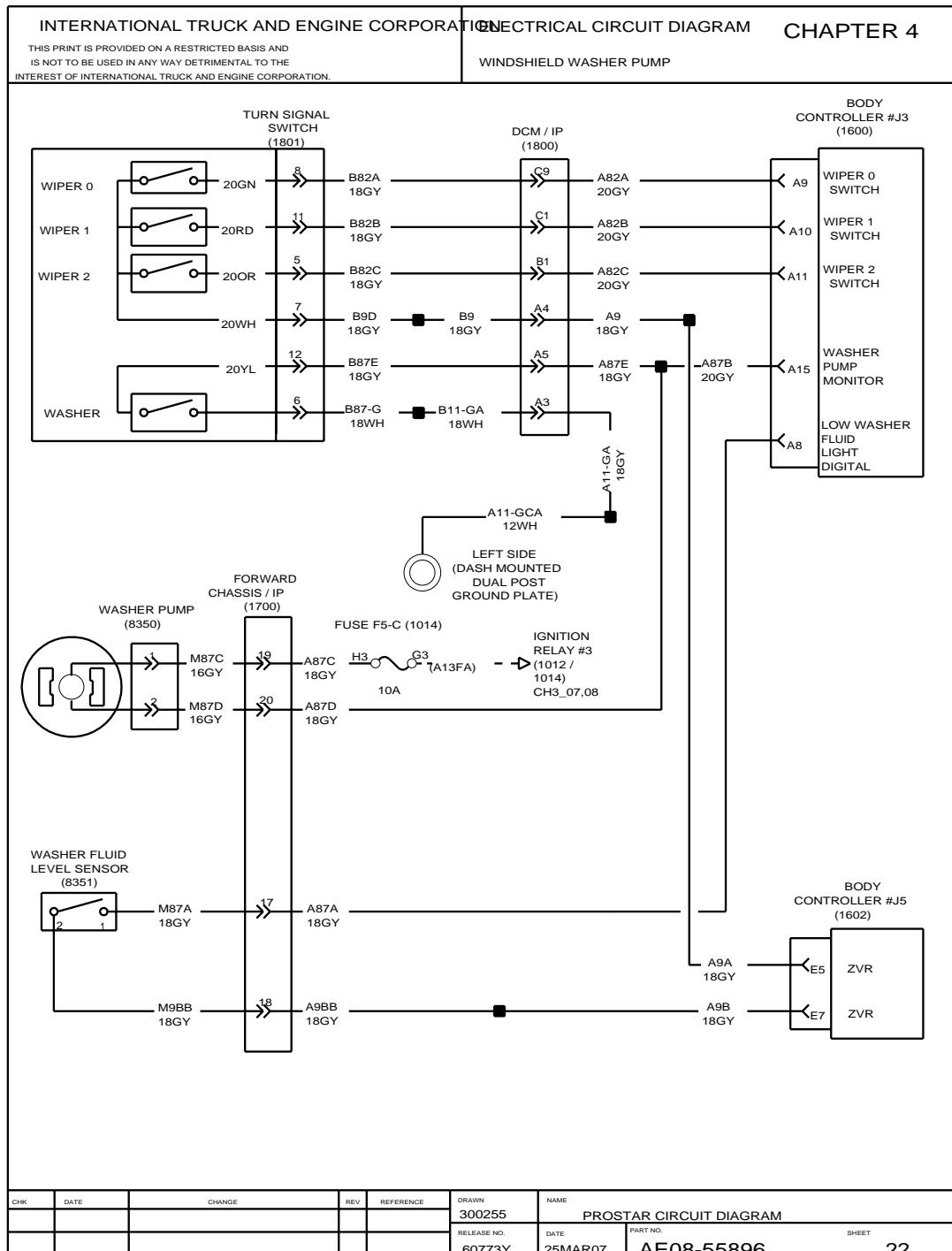


Figure 67 Windshield Washer Pump

4.24. DRIVER DISPLAY — VEHICLE INFORMATION, P. 23

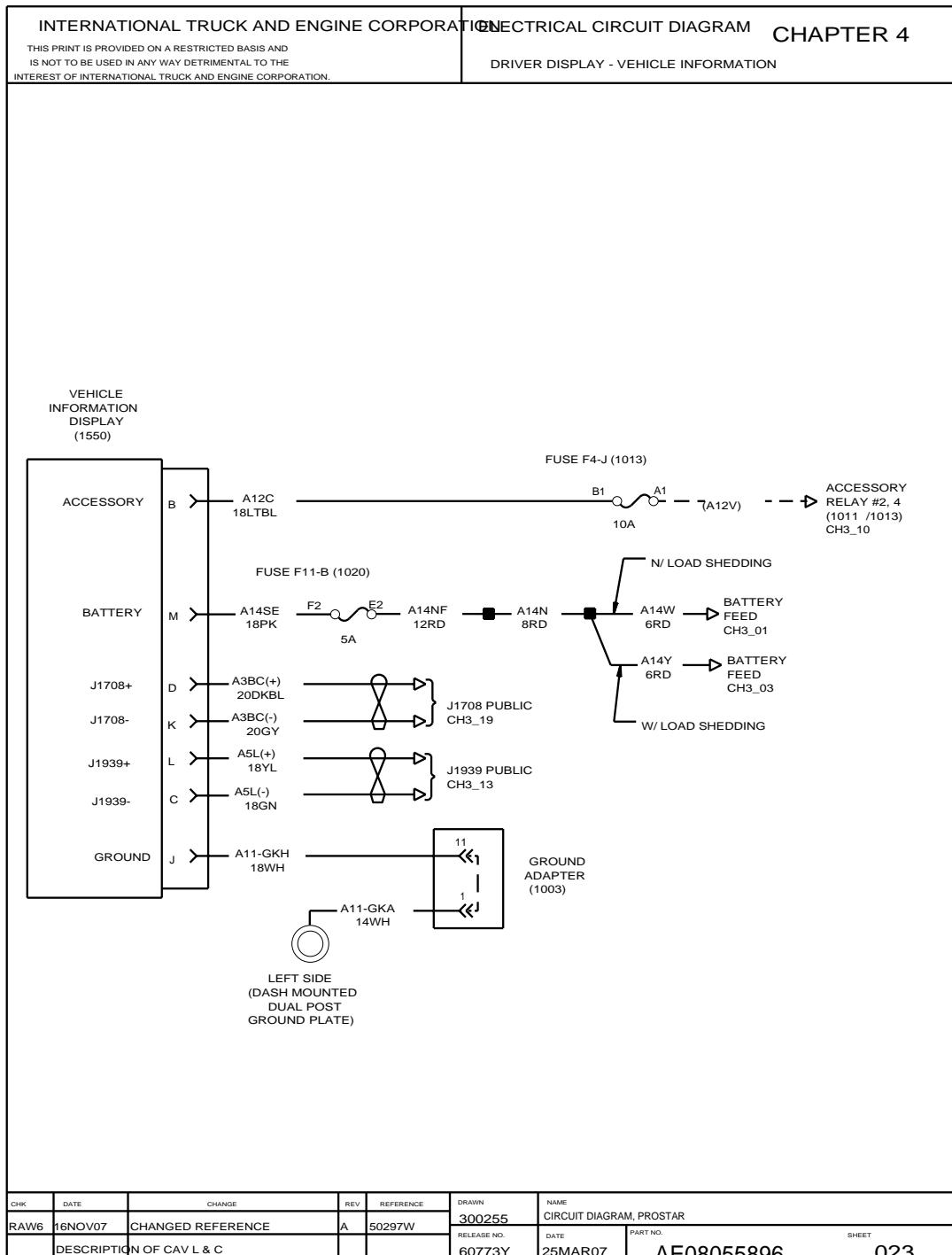


Figure 68 Driver Display — Vehicle Information

INTERNATIONAL TRUCK AND ENGINE CORPORATION THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF INTERNATIONAL TRUCK AND ENGINE CORPORATION.					ELECTRICAL CIRCUIT DIAGRAM CHAPTER 4		
<p style="text-align: center;">INTENTIONALLY LEFT BLANK</p>							
CHK	DATE	CHANGE	REV	REFERENCE	DRAWN 300255	NAME PROSTAR CIRCUIT DIAGRAM	SHEET 24
					RELEASE NO. 60773X	DATE 25MAR07	PART NO. AE08-55896

4.26. BLANK PAGE, P. 25

INTERNATIONAL TRUCK AND ENGINE CORPORATION THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF INTERNATIONAL TRUCK AND ENGINE CORPORATION.		ELECTRICAL CIRCUIT DIAGRAM CHAPTER 4								
<p style="text-align: center;">INTENTIONALLY LEFT BLANK</p>										
CHK	DATE	CHANGE	REV	REFERENCE	DRAWN 300255	NAME PROSTAR CIRCUIT DIAGRAM	RELEASE NO. 60773Y	DATE 25MAR07	PART NO. AF08-55896	SHEET 25

Figure 70 Blank Page

4.27. DOOR SWITCHES — DOME LAMP, P. 26

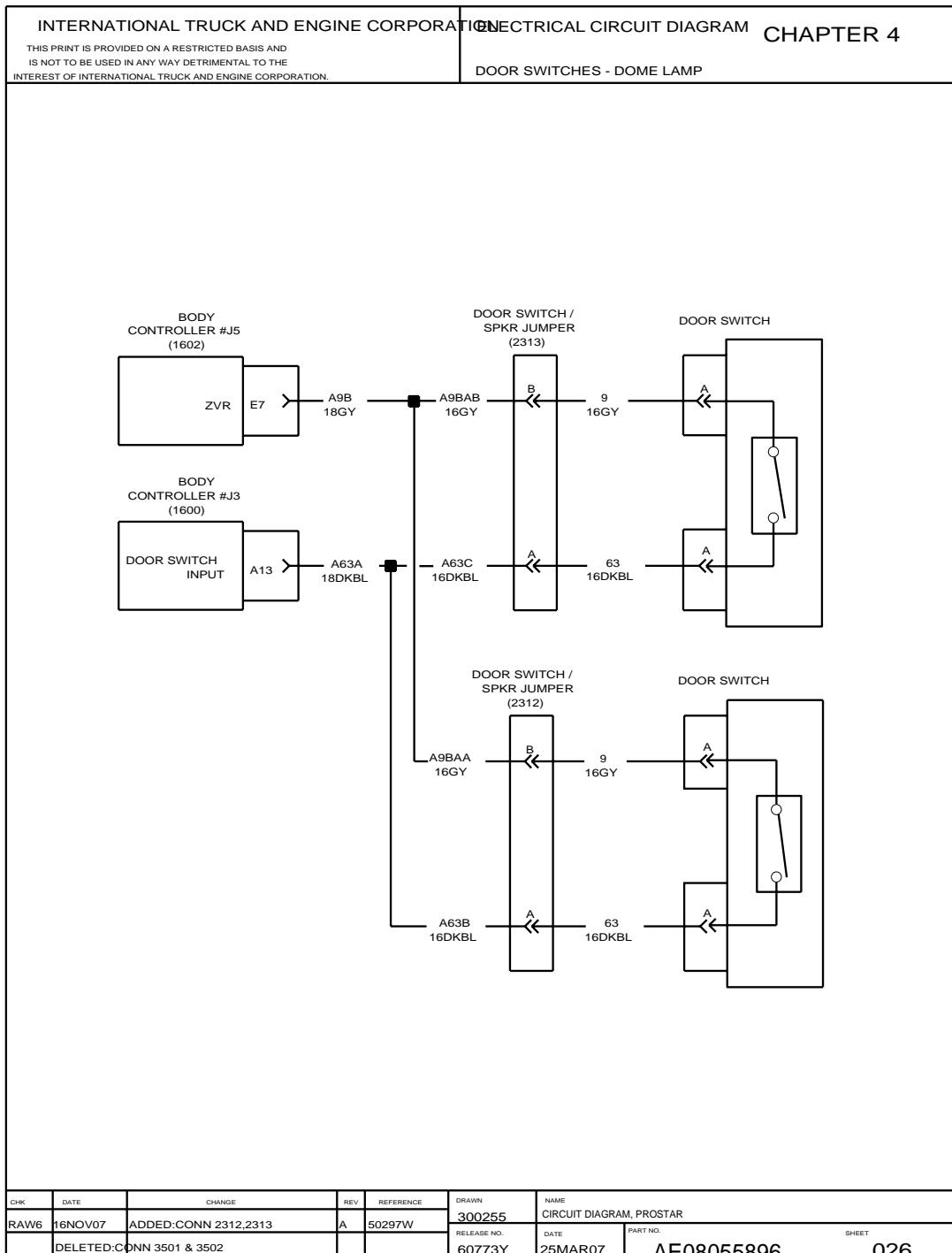


Figure 71 Door Switches — Dome Lamp

4.28. SPARE SWITCH — FOR SINGLE CUSTOMER ACCESSORY, P. 27

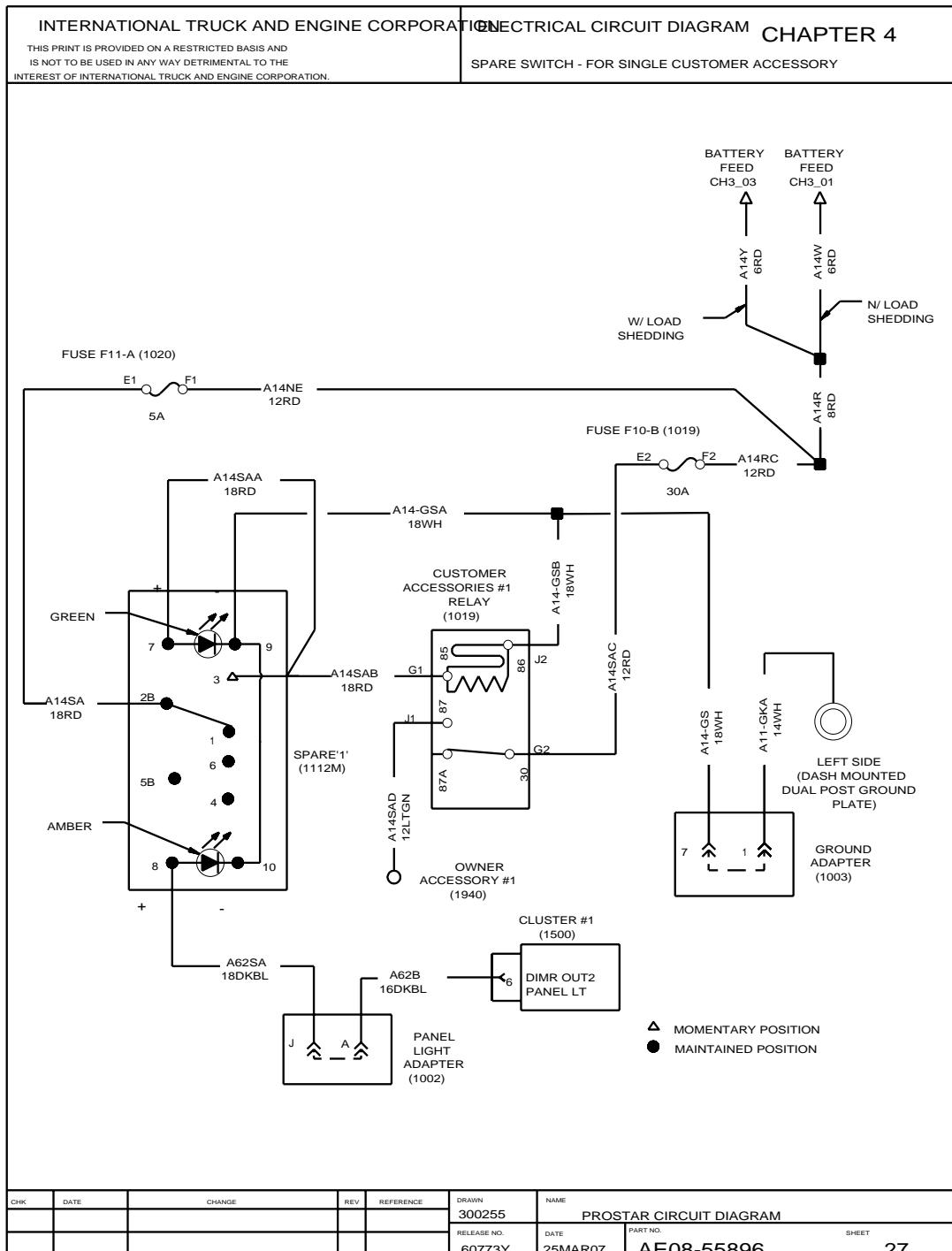


Figure 72 Spare Switch — For Single Customer Accessory

4.29. SPARE SWITCH — FOR DUAL CUSTOMER ACCESSORY, P. 28

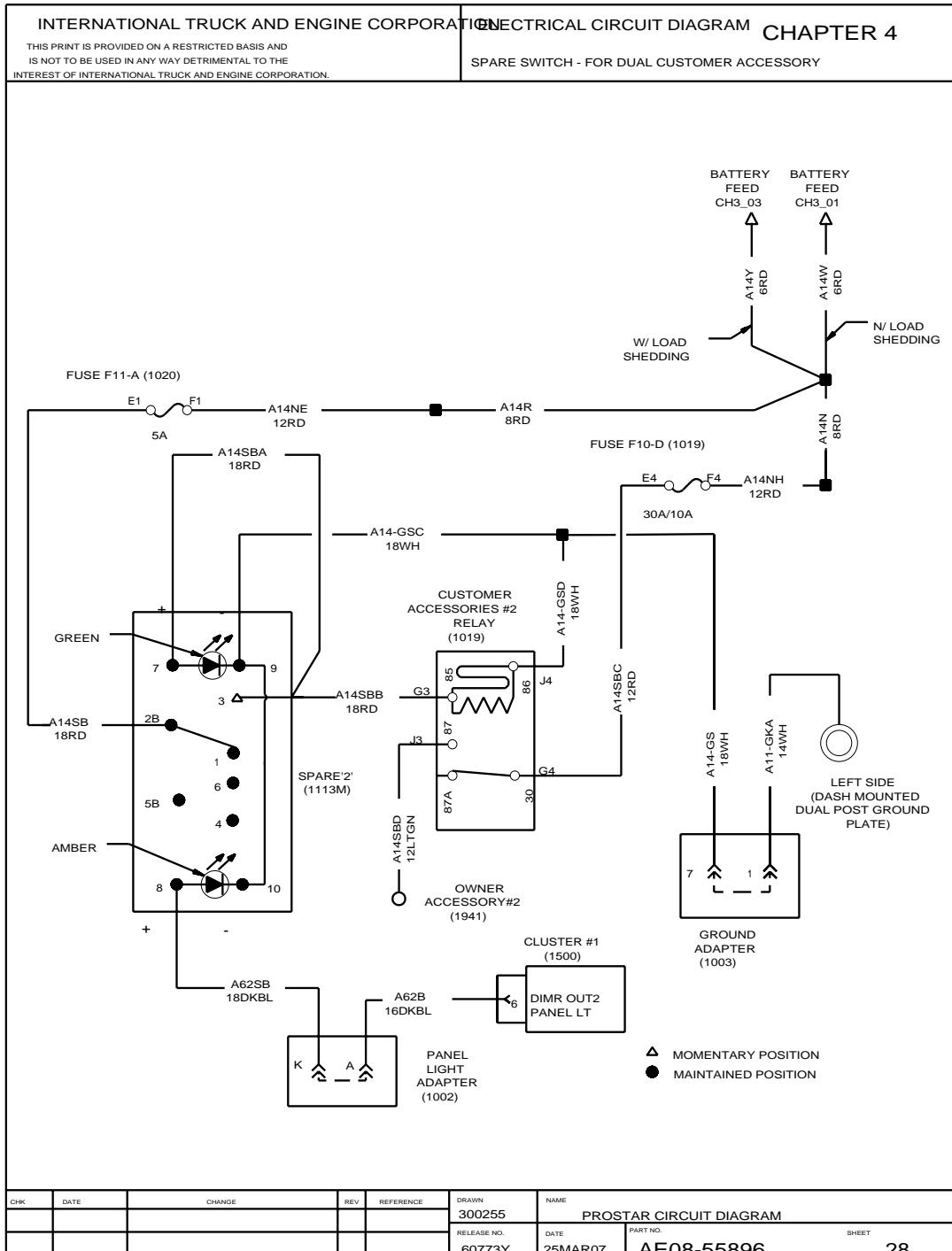


Figure 73 Spare Switch — For Dual Customer Accessory

4.30. EATON VORAD EVT-300 SYSTEM, P. 29

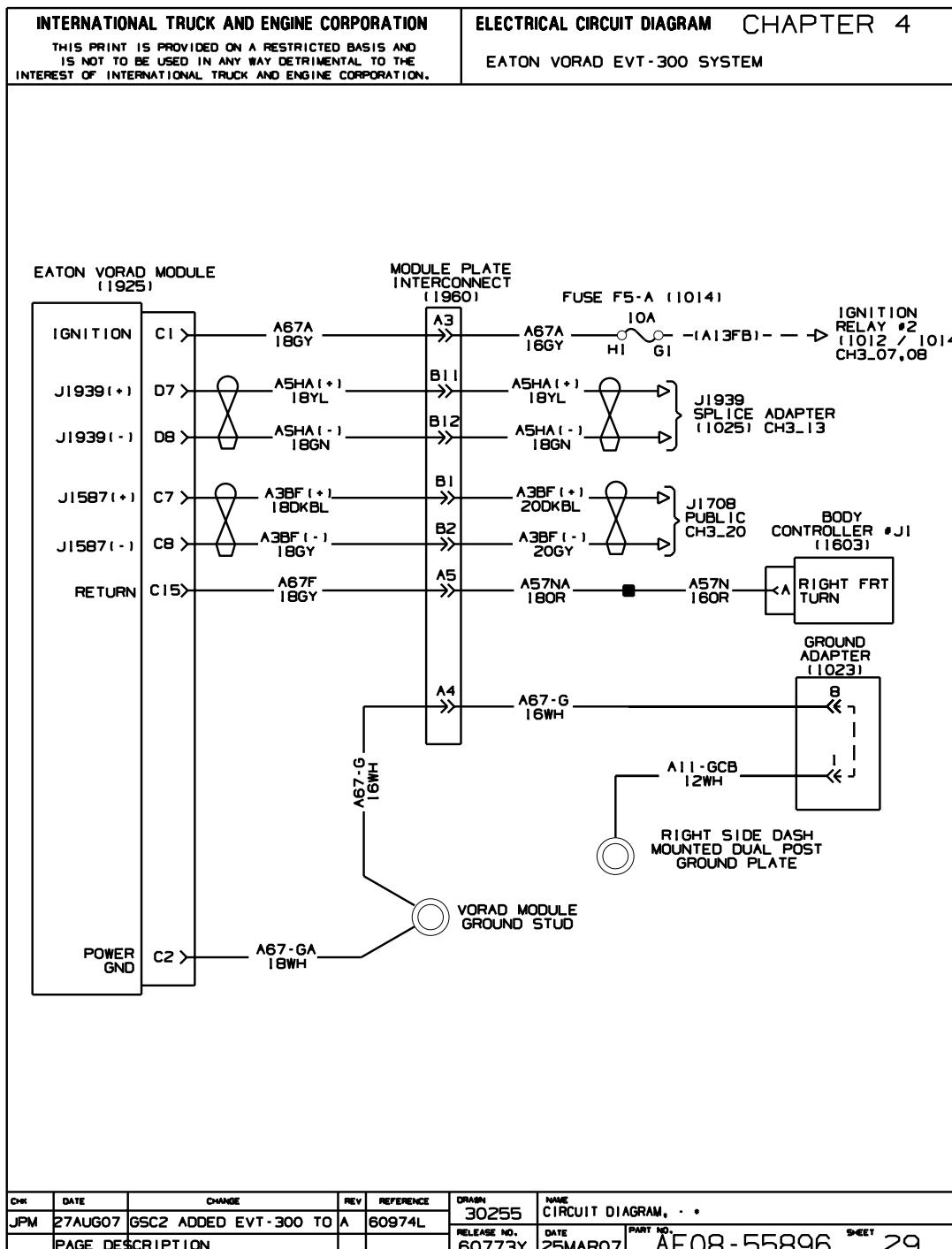


Figure 74 Eaton Vorad EVT-300 System

4.31. EATON VORAD EVT-300 SYSTEM, P. 30

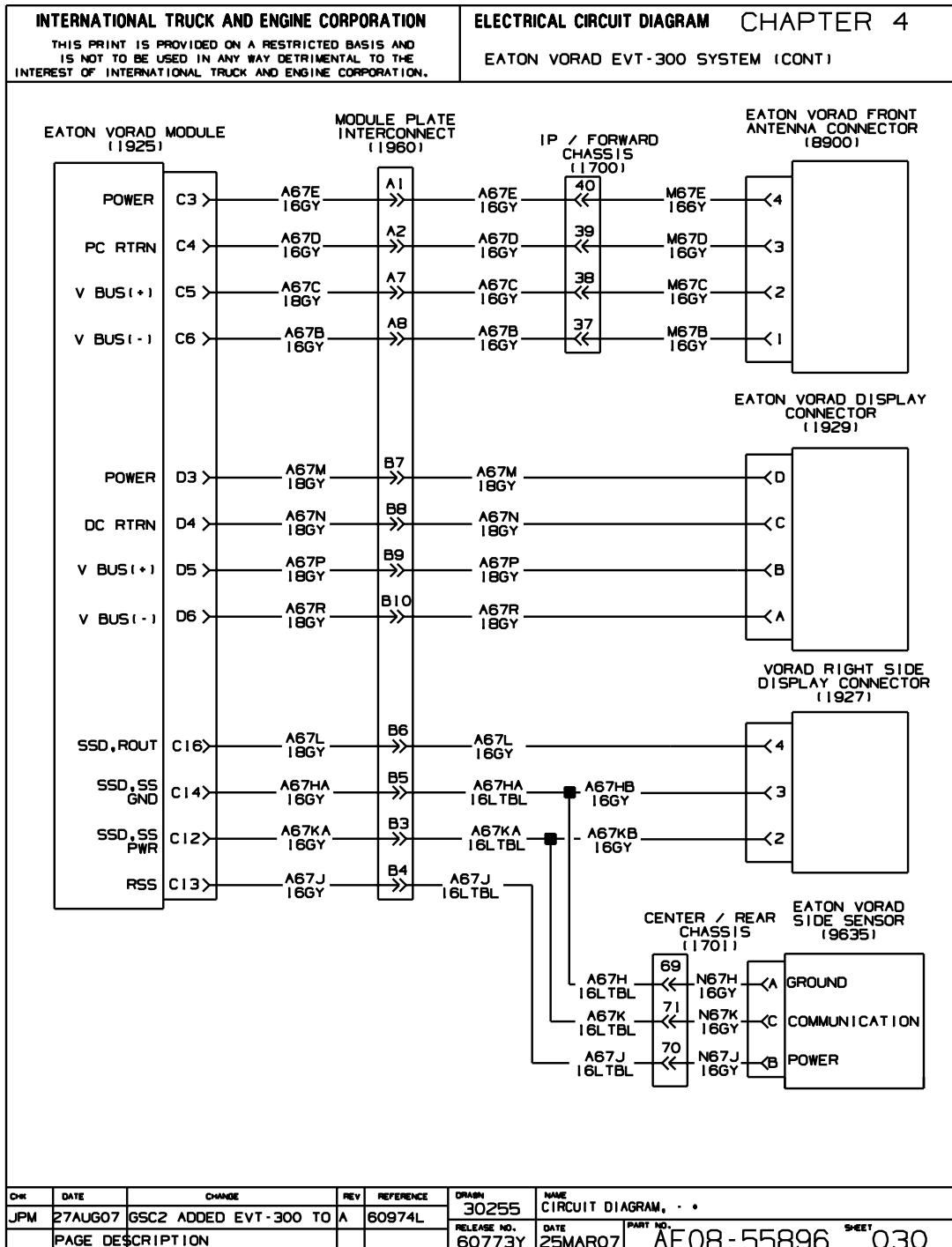


Figure 75 Eaton Vorad EVT-300 System

4.32. EATON VORAD VS-400, P. 31

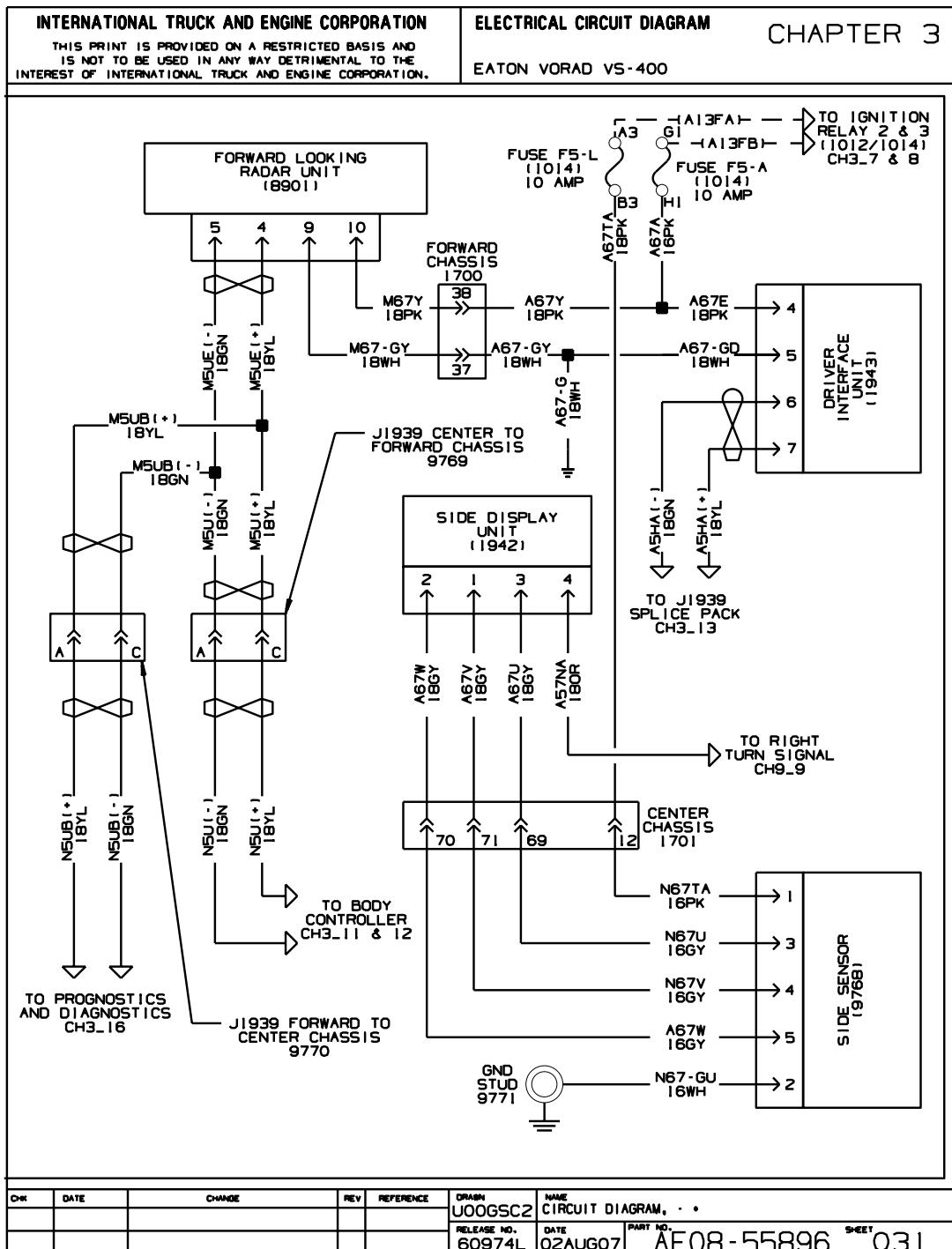


Figure 76 Eaton Vorad VS-400

4.33. AWARE II, P. 32

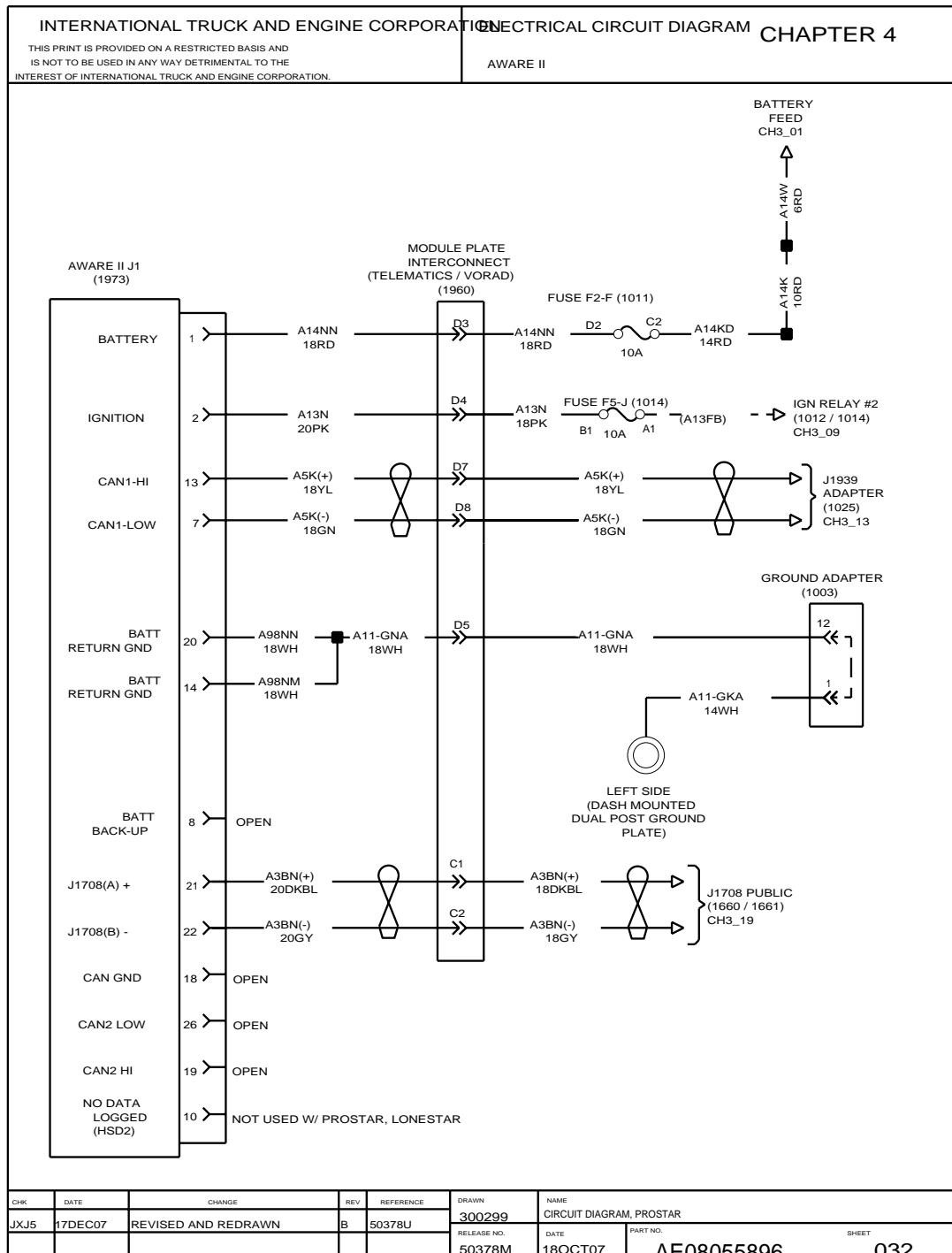


Figure 77 AWARE II

4.34. AWARE II, P. 33

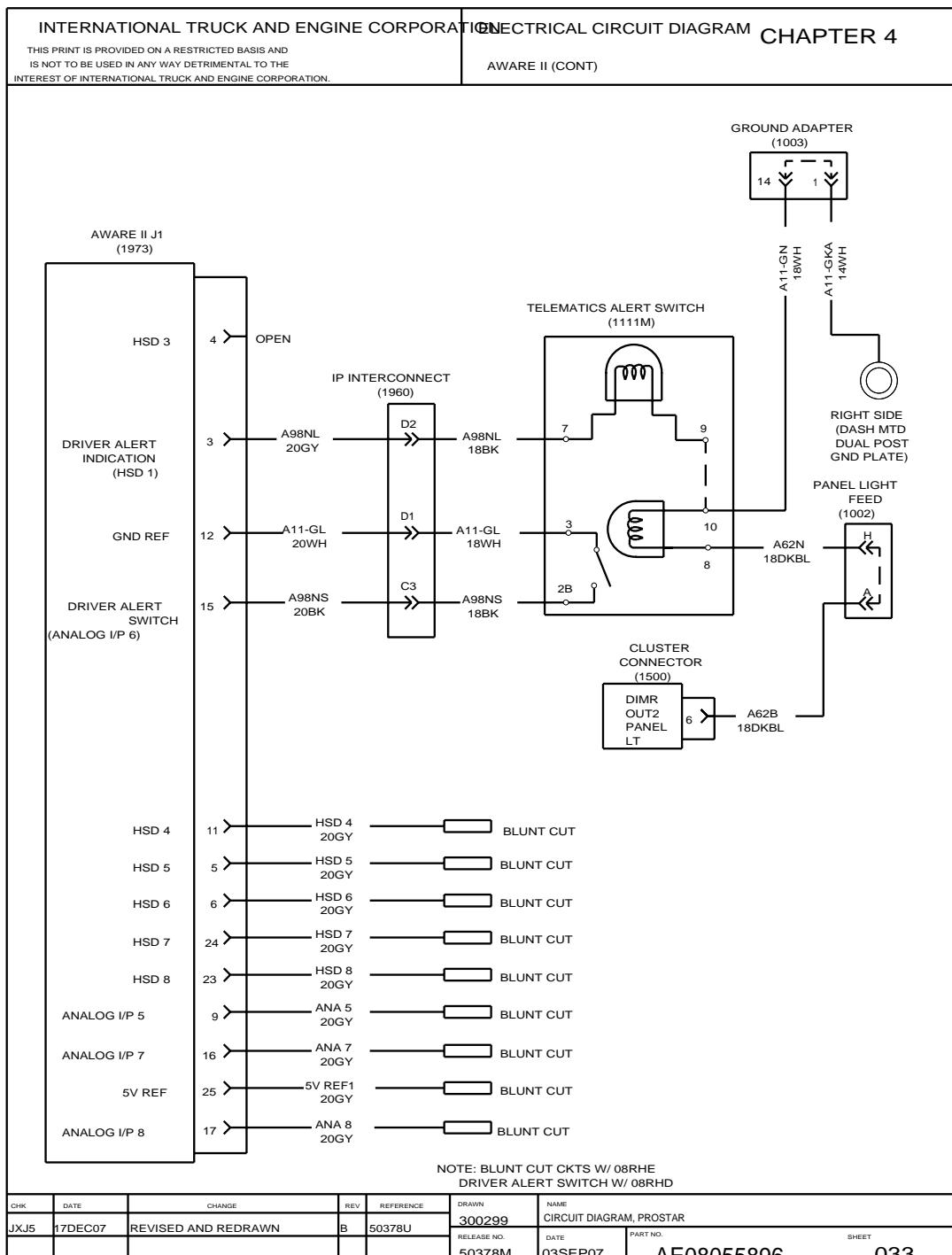


Figure 78 AWARE II

4.35. AWARE II, P. 34

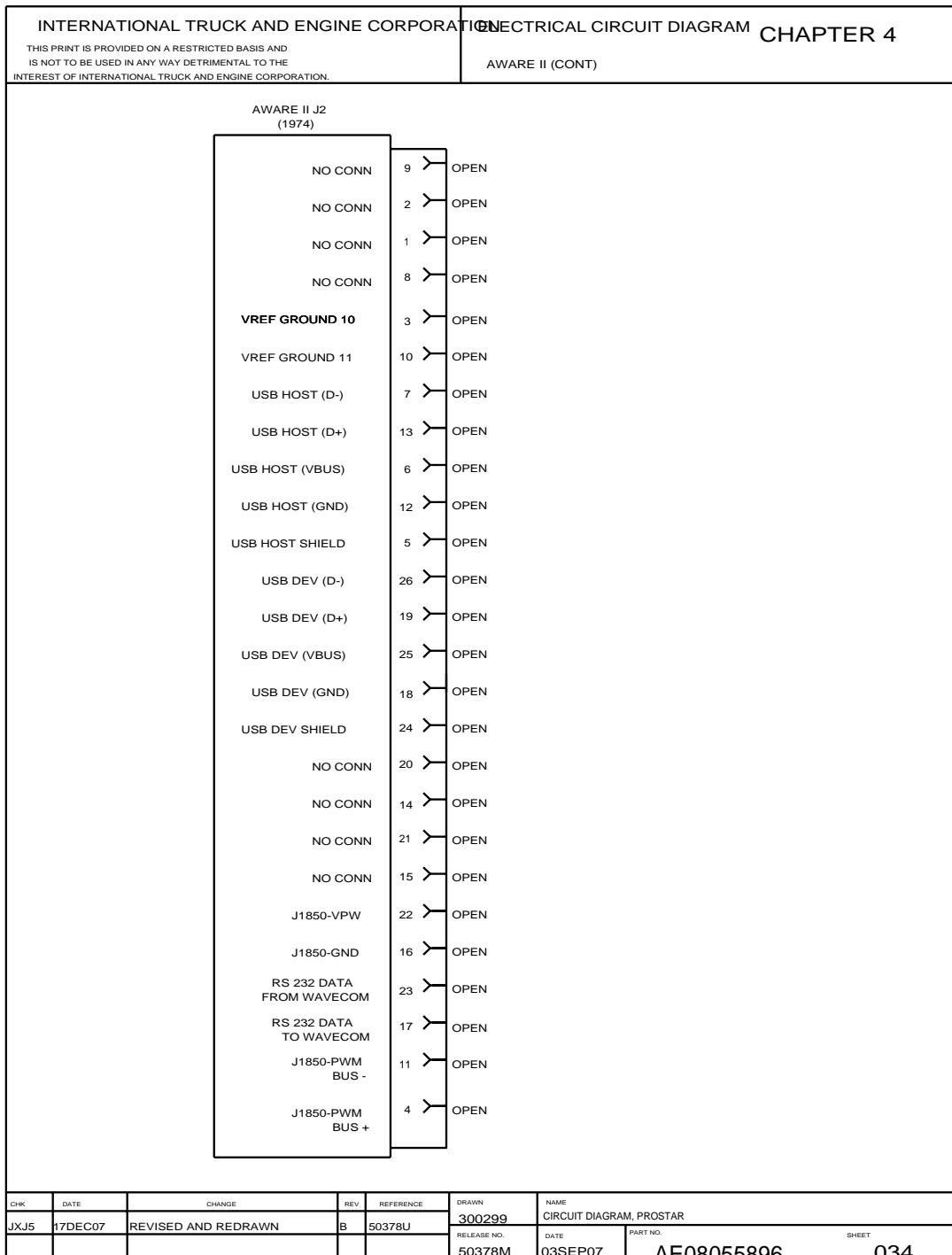
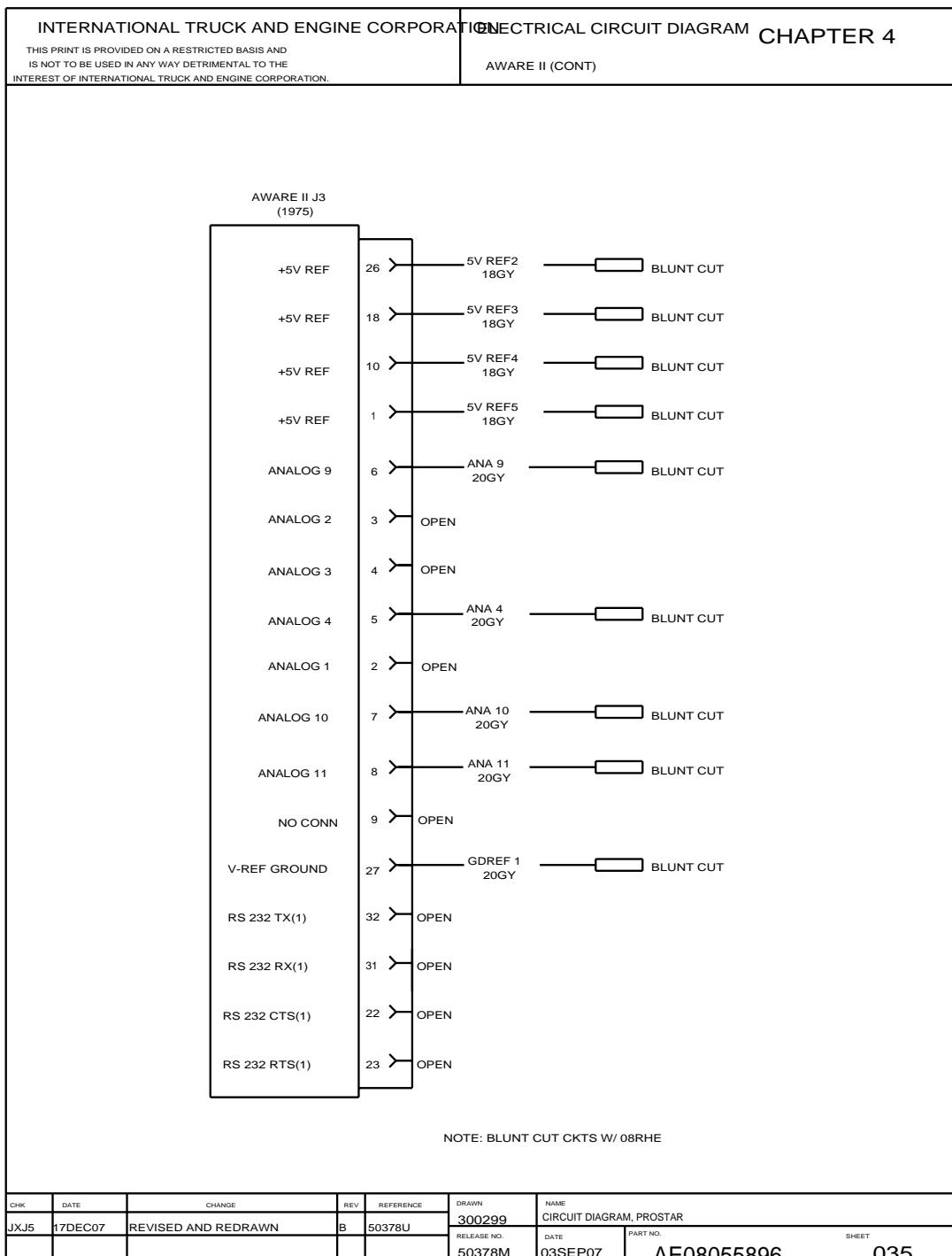


Figure 79 AWARE II

4.36. AWARE II, P. 35**Figure 80 AWARE II**

4.37. AWARE II, P. 36

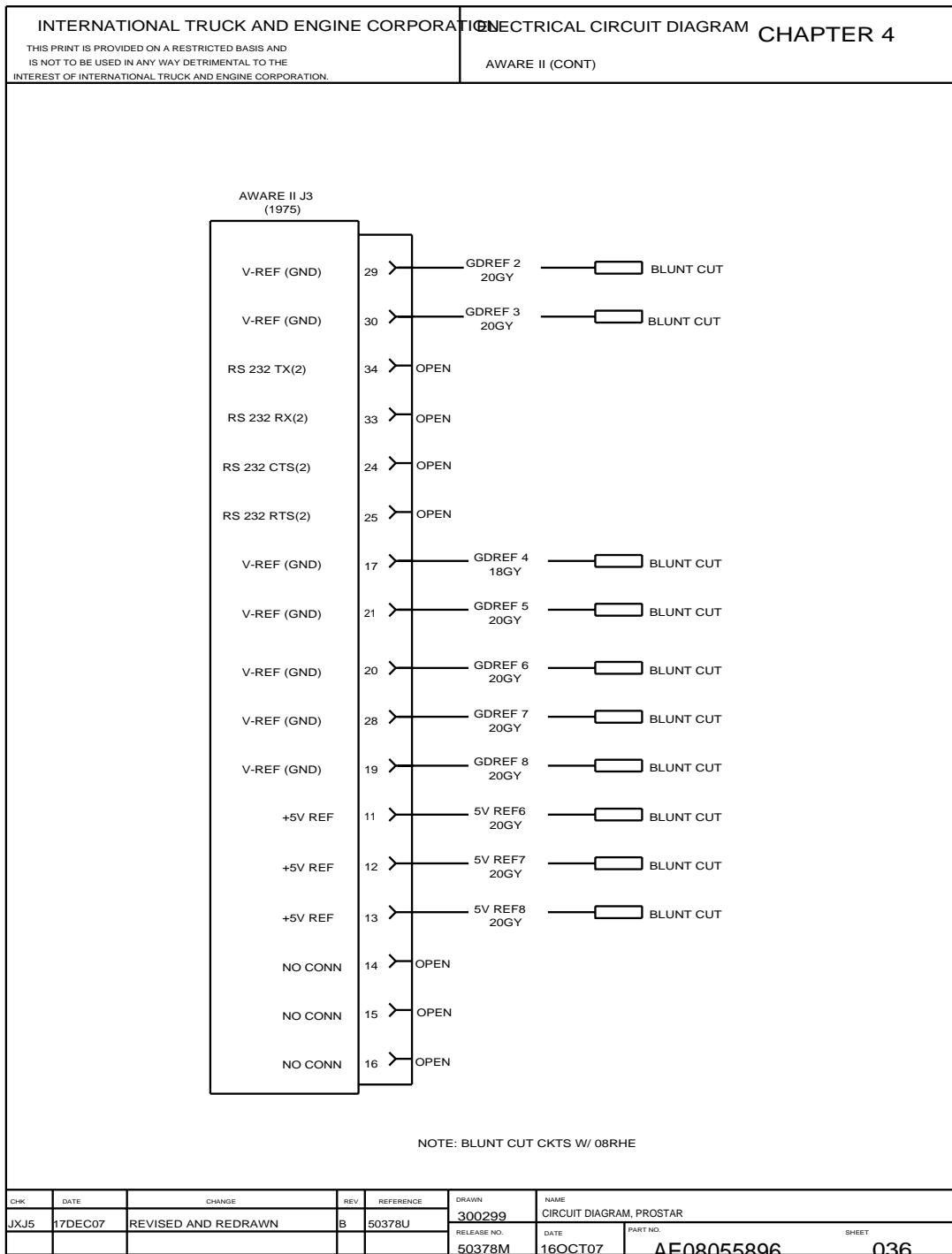


Figure 81 AWARE II

4.38. QUALCOMM OMNIVISION, P. 37

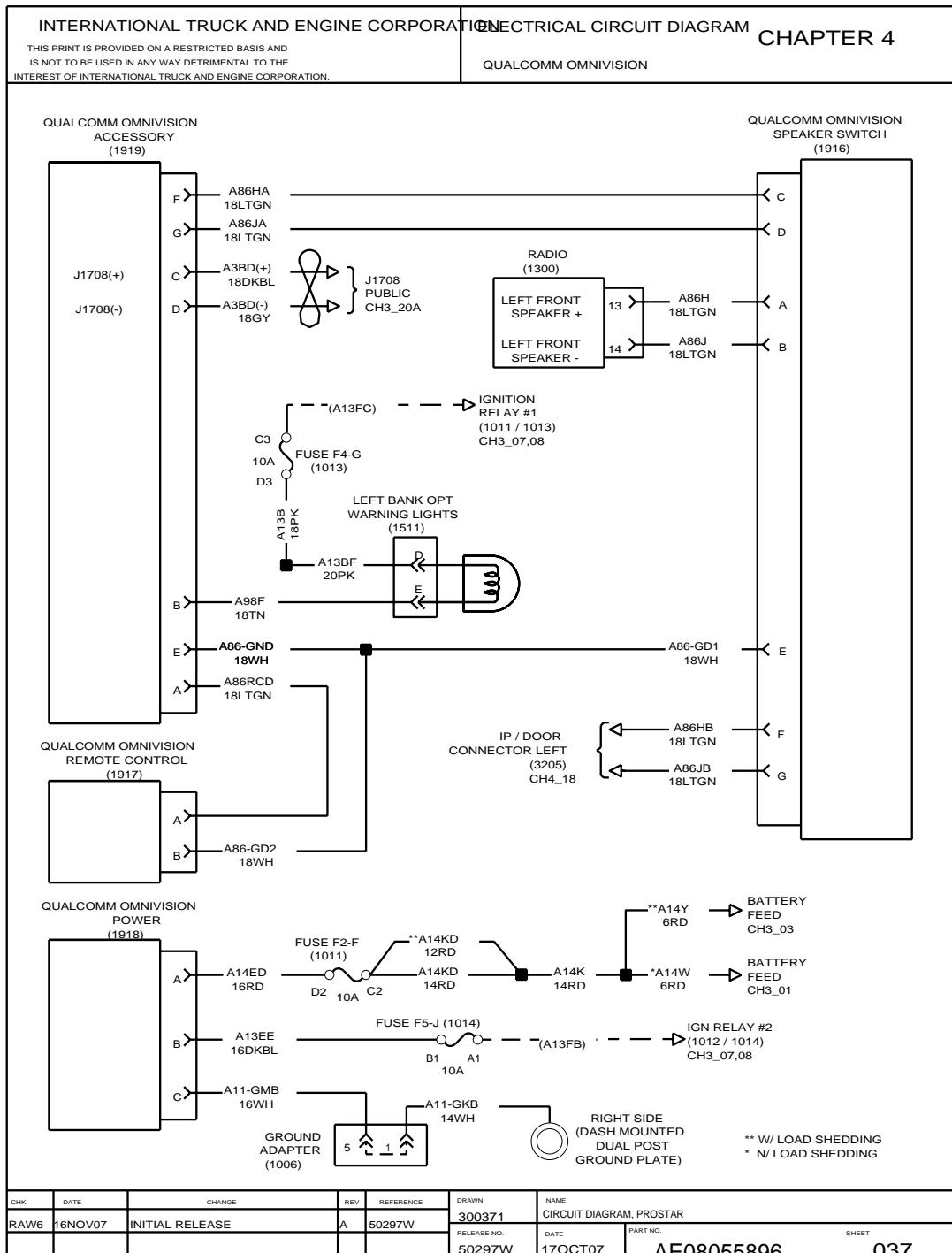


Figure 82 Qualcomm Omnivision

4.39. QUALCOMM OMNIVISION, P. 38

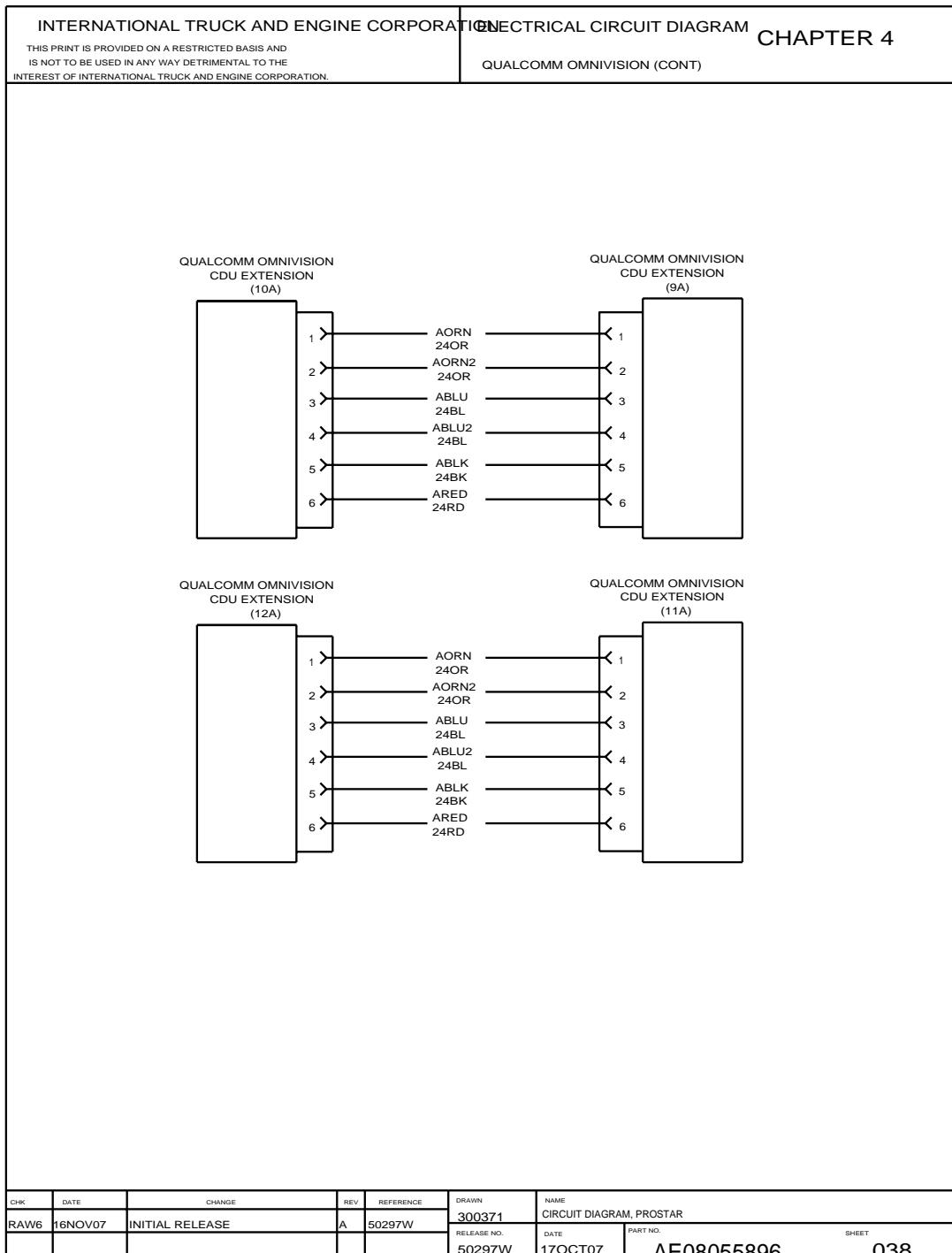


Figure 83 Qualcomm Omnivision

4.40. MOTIENT MOBILE MAX, P. 39

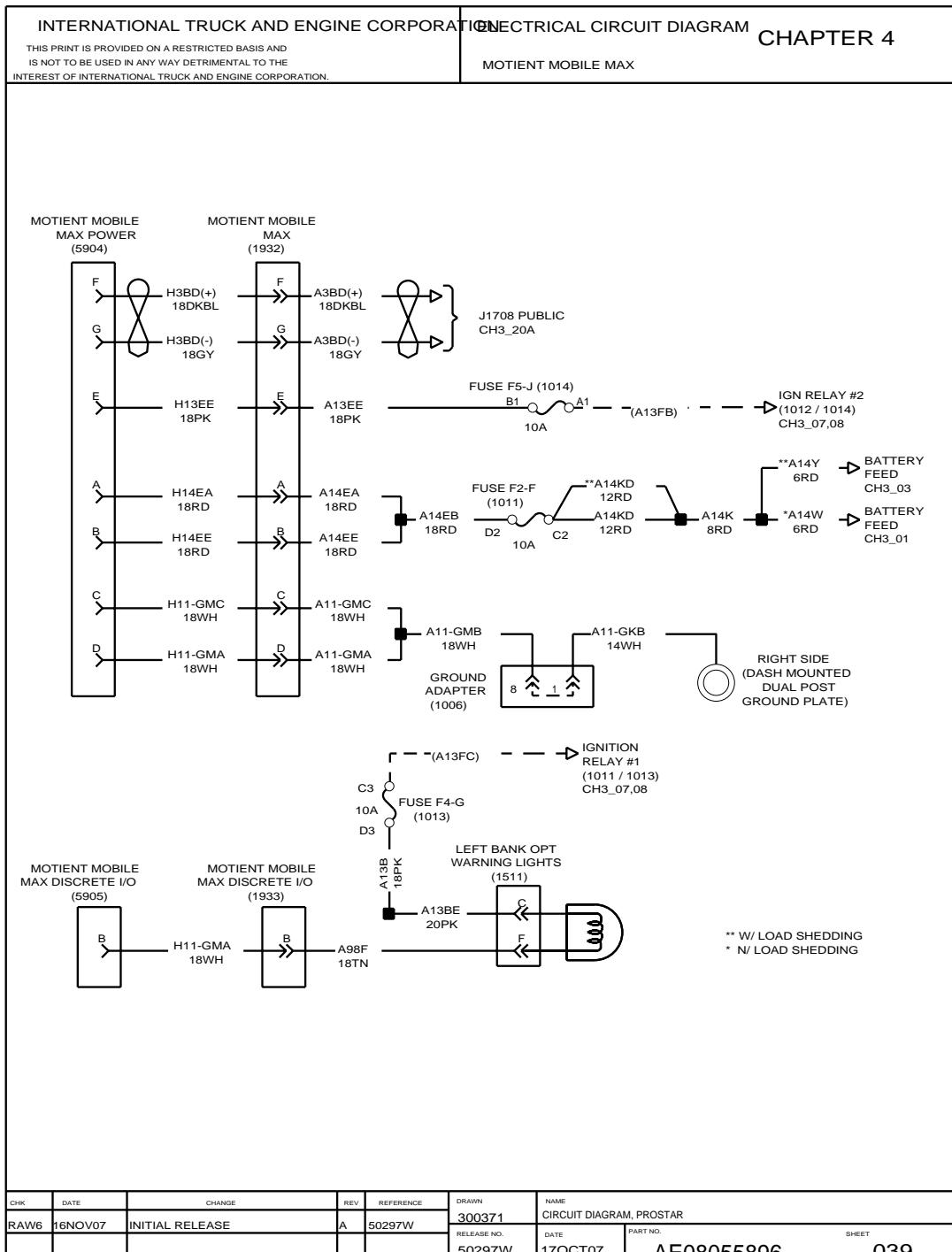


Figure 84 Motient Mobile Max

4.41. REMOTE RADIO, P. 40

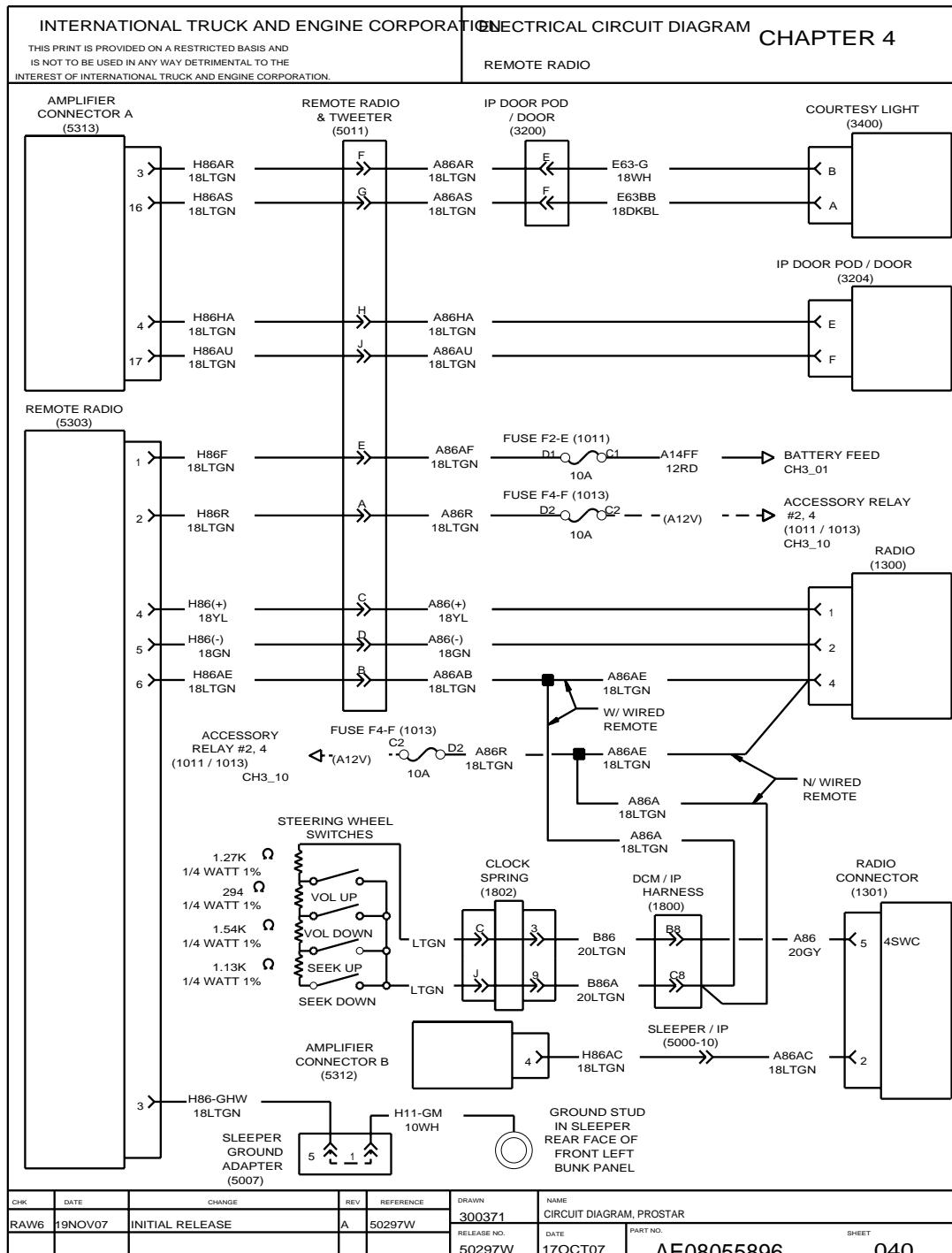


Figure 85 Remote Radio

5. CHARGING AND CRANKING SYSTEM (CHAPTER 5)

5.1. MANUAL TRANSMISSION, P. 1

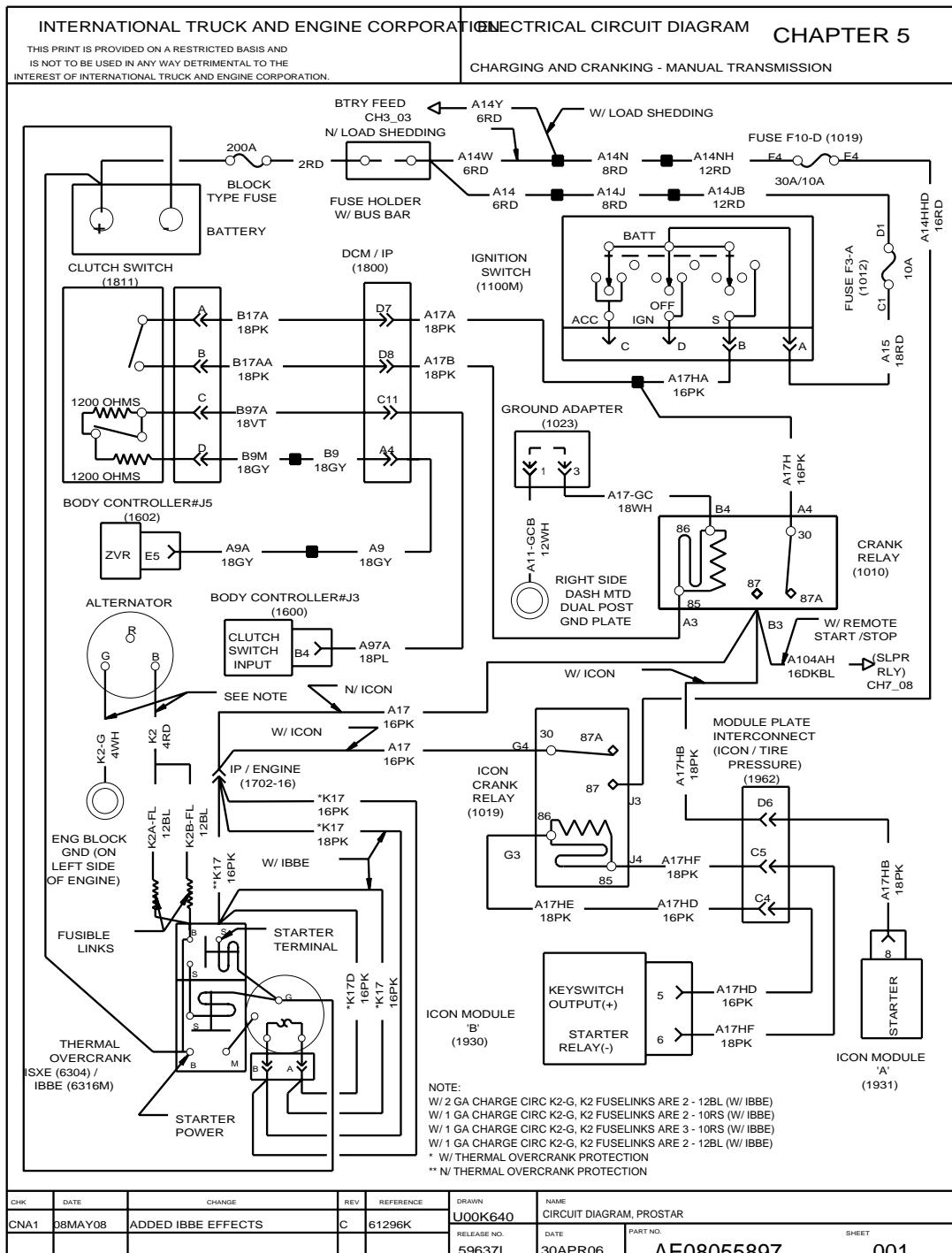


Figure 86 Manual Transmission

5.2. AUTOMATIC TRANSMISSION, P. 2

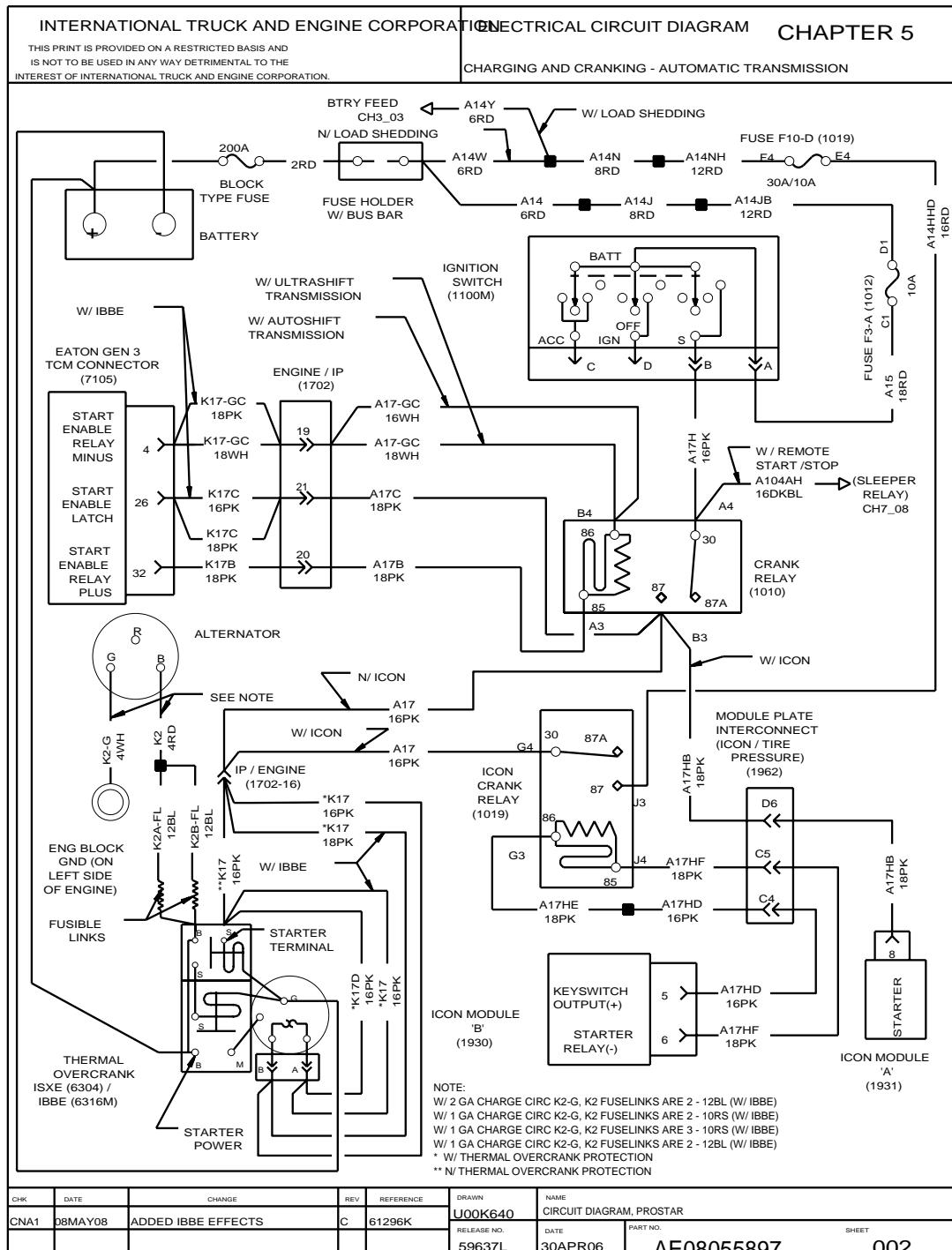


Figure 87 Automatic Transmission

5.3. FREEDOMLINE TRANSMISSION, P. 3

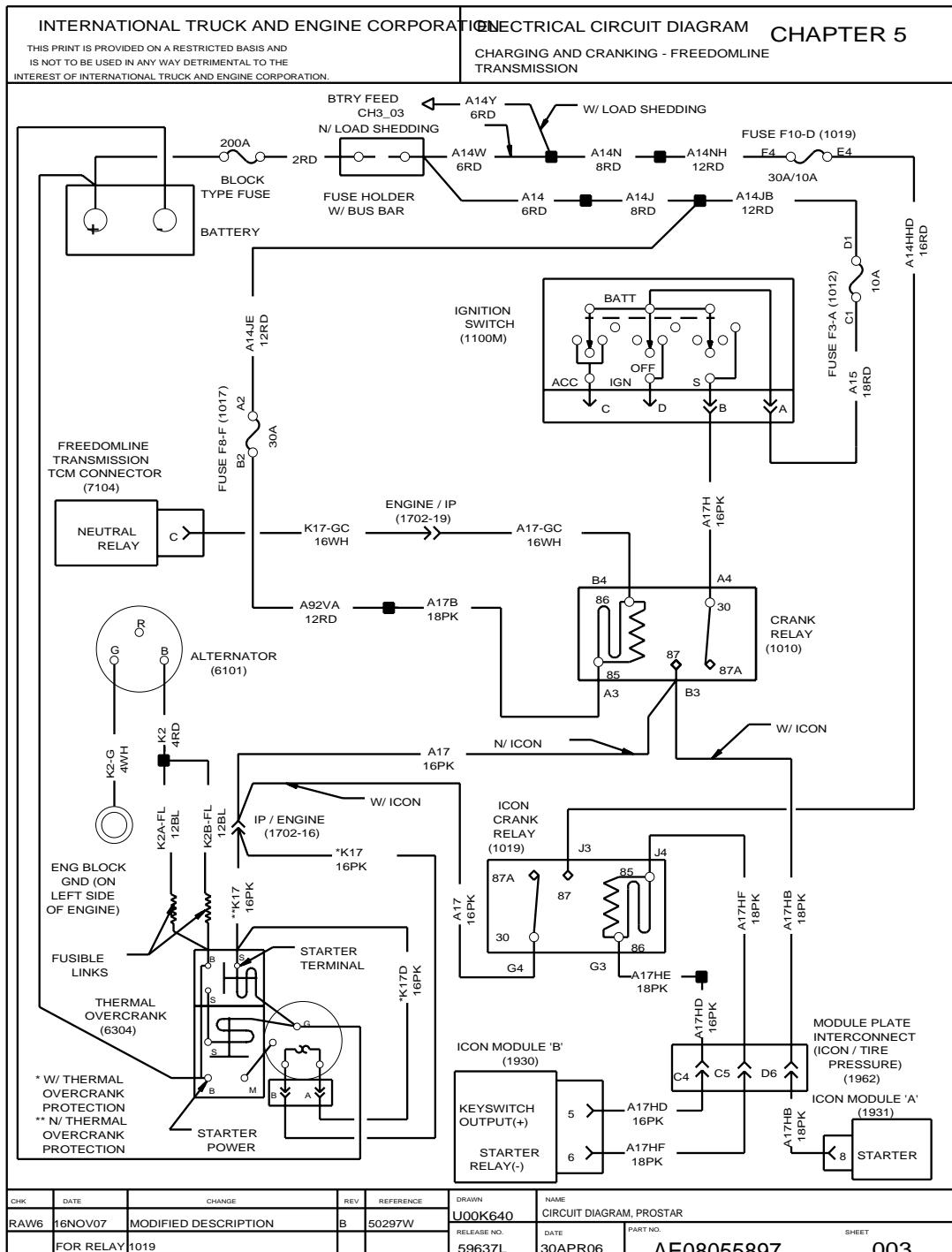


Figure 88 Freedomline Transmission

6. ETHER START AND FAN WIRING (CHAPTER 6)

6.1. ETHER START CUMMINS ISX, P. 1

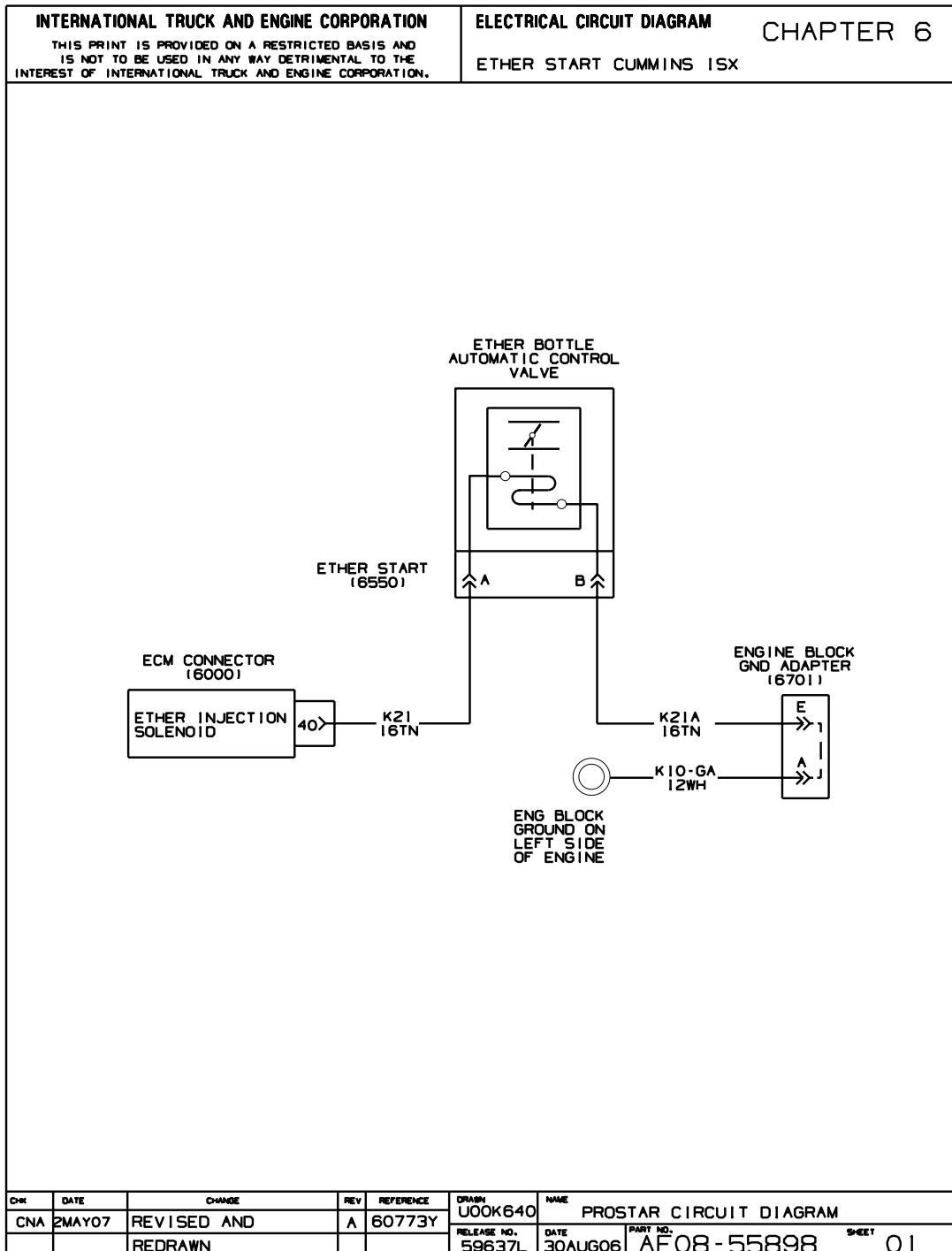


Figure 89 Ether Start Cummins ISX

6.2. FAN WIRING CUMMINS ISX, P. 2

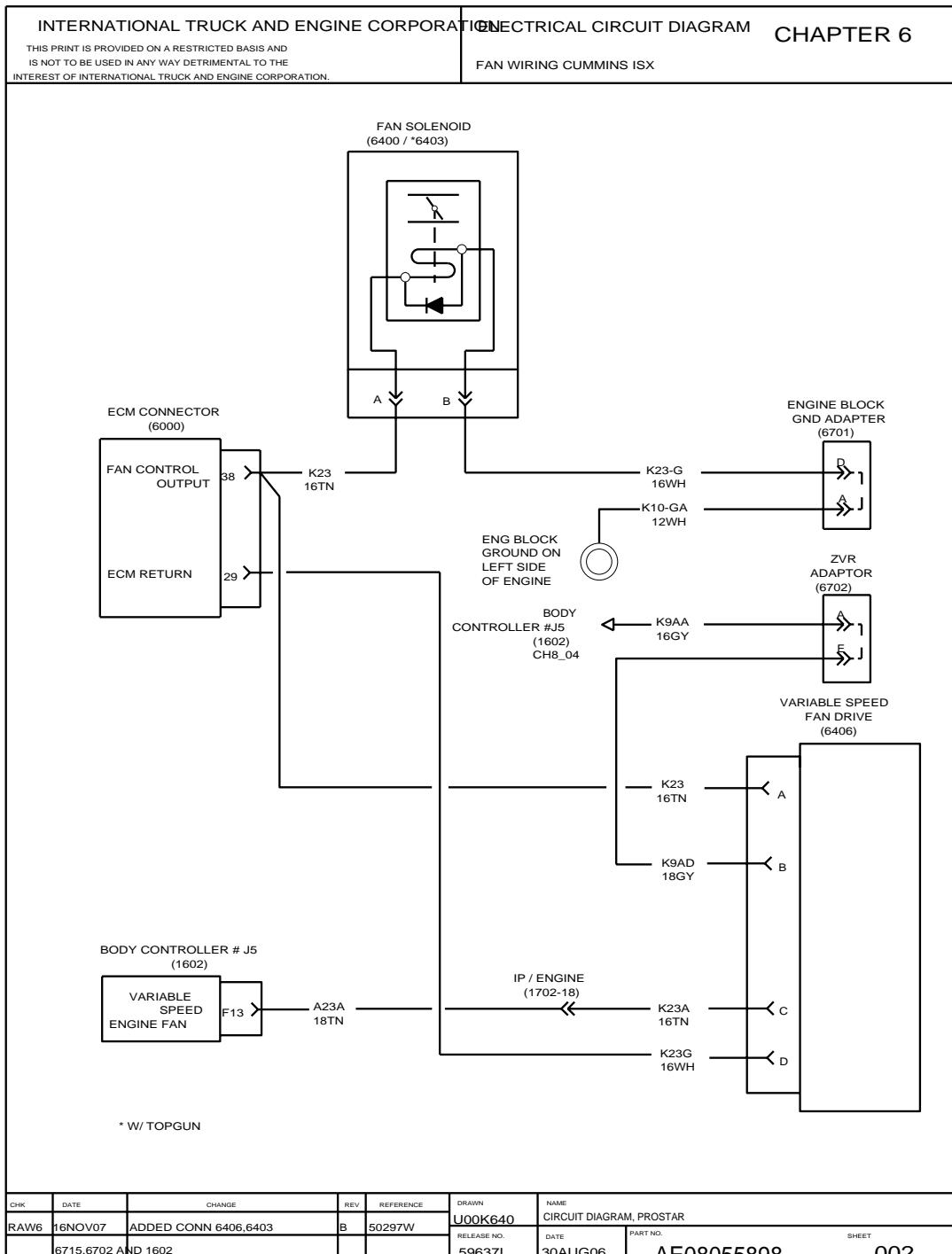


Figure 90 Fan Wiring Cummins ISX

7. ENGINES (CHAPTER 7)

7.1. ELECTRONIC ENGINE CONTROLS, P. 1

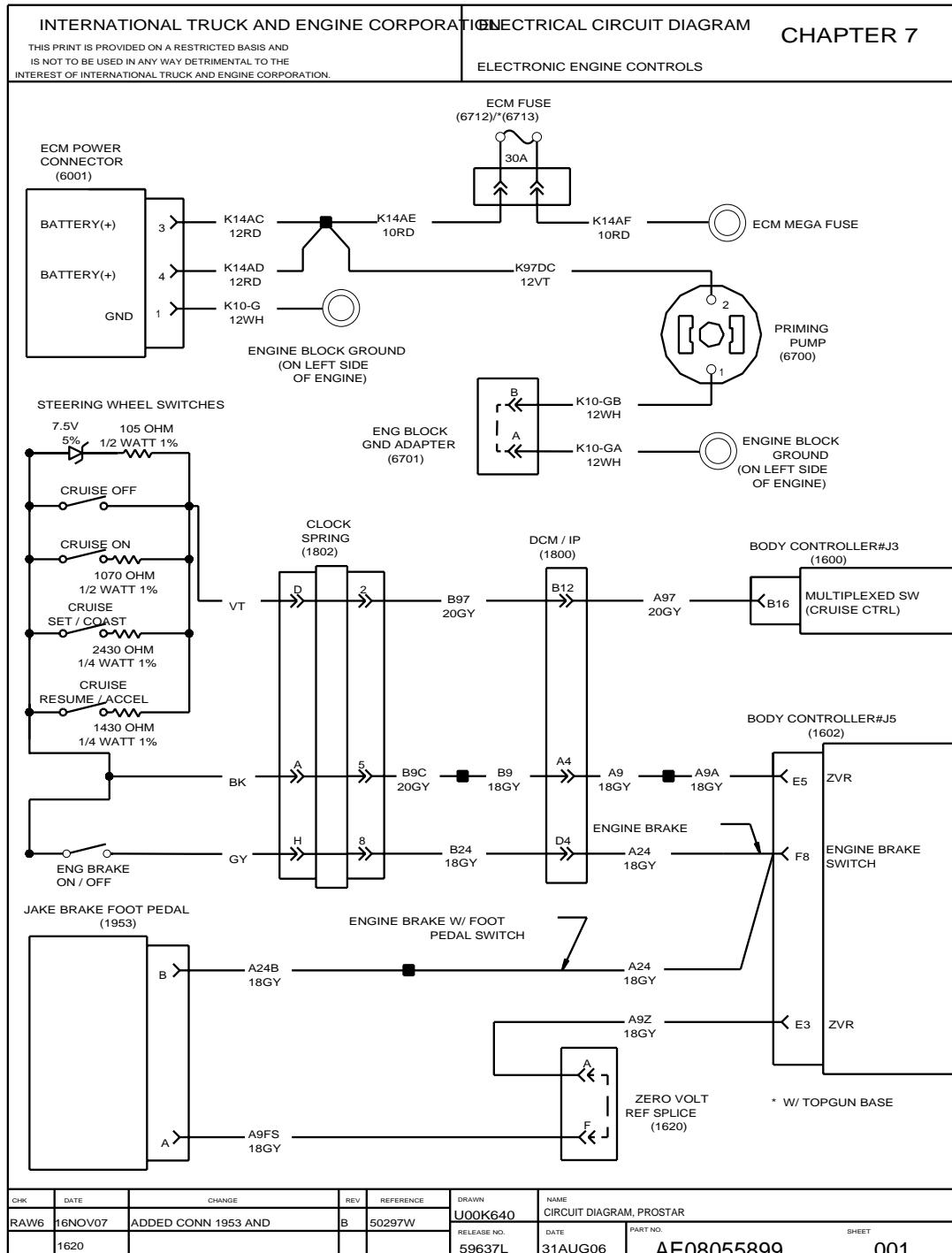


Figure 91 Electronic Engine Controls

7.2. ELECTRONIC ENGINE CONTROLS — CUMMINS ENGINE, P. 2

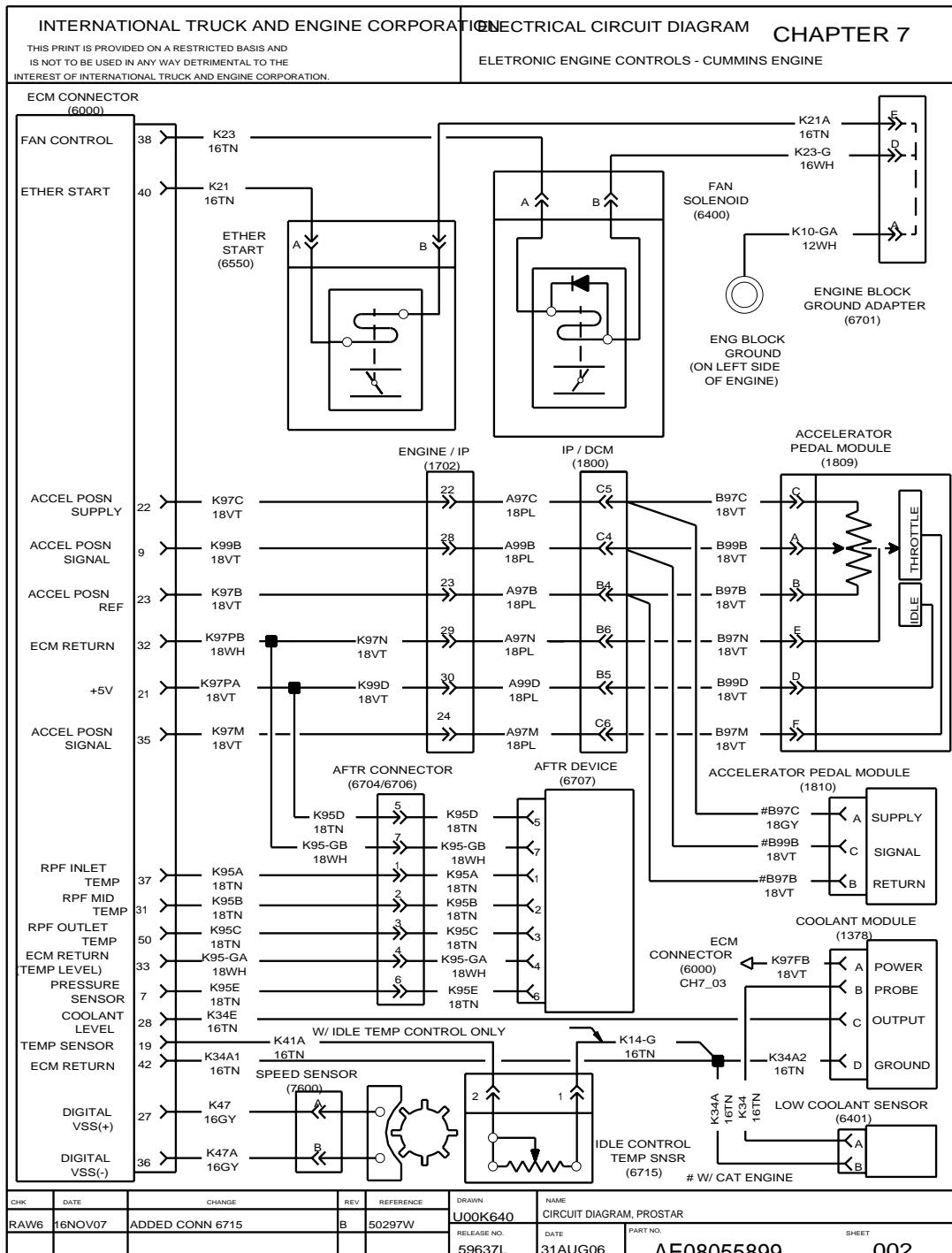


Figure 92 Electronic Engine Controls — Cummins Engine

7.3. ELECTRONIC ENGINE CONTROLS — CUMMINS ENGINE, P. 3

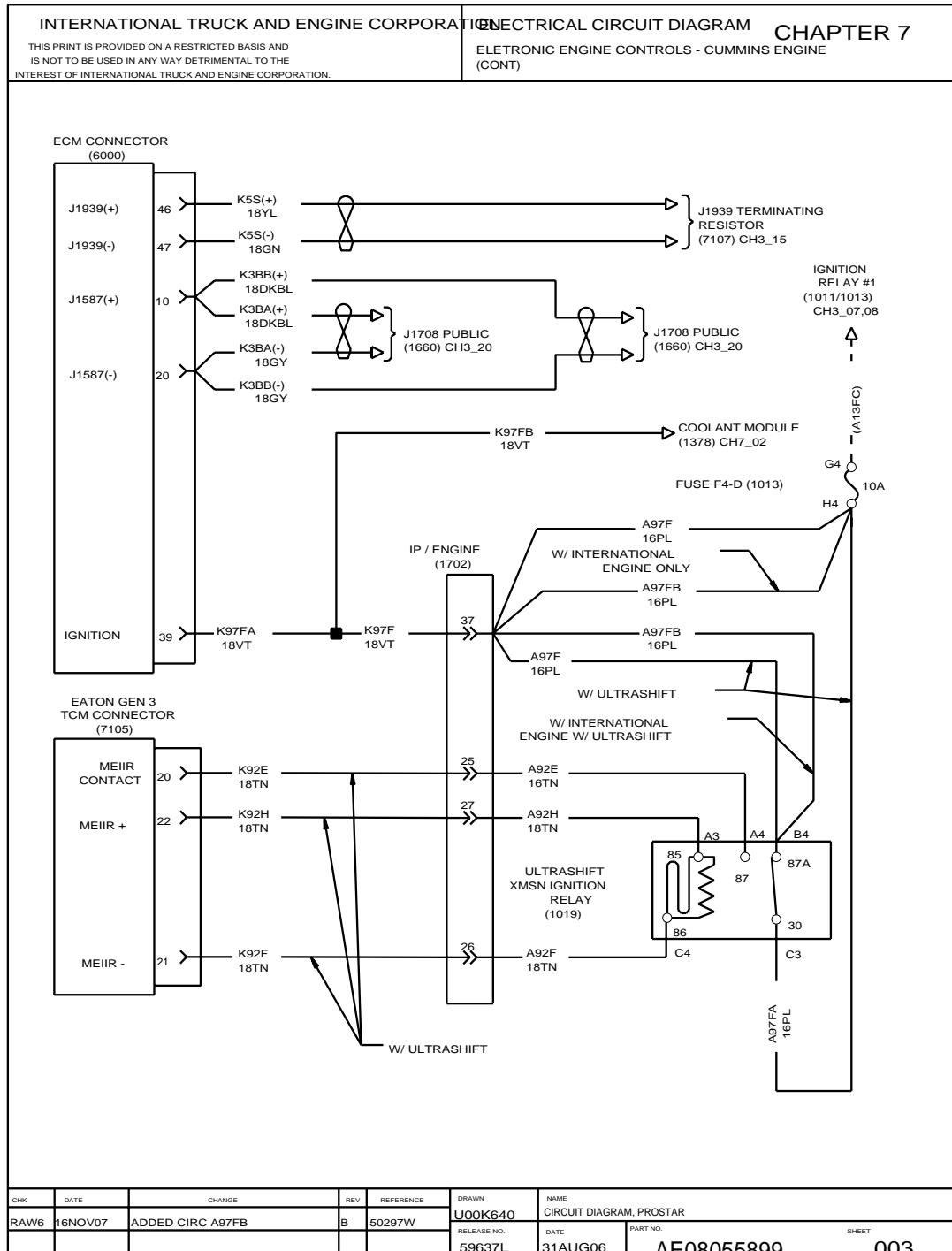


Figure 93 Electronic Engine Controls — Cummins Engine (Cont.)

7.4. ELECTRONIC ENGINE CONTROLS WITH ICON, P. 4

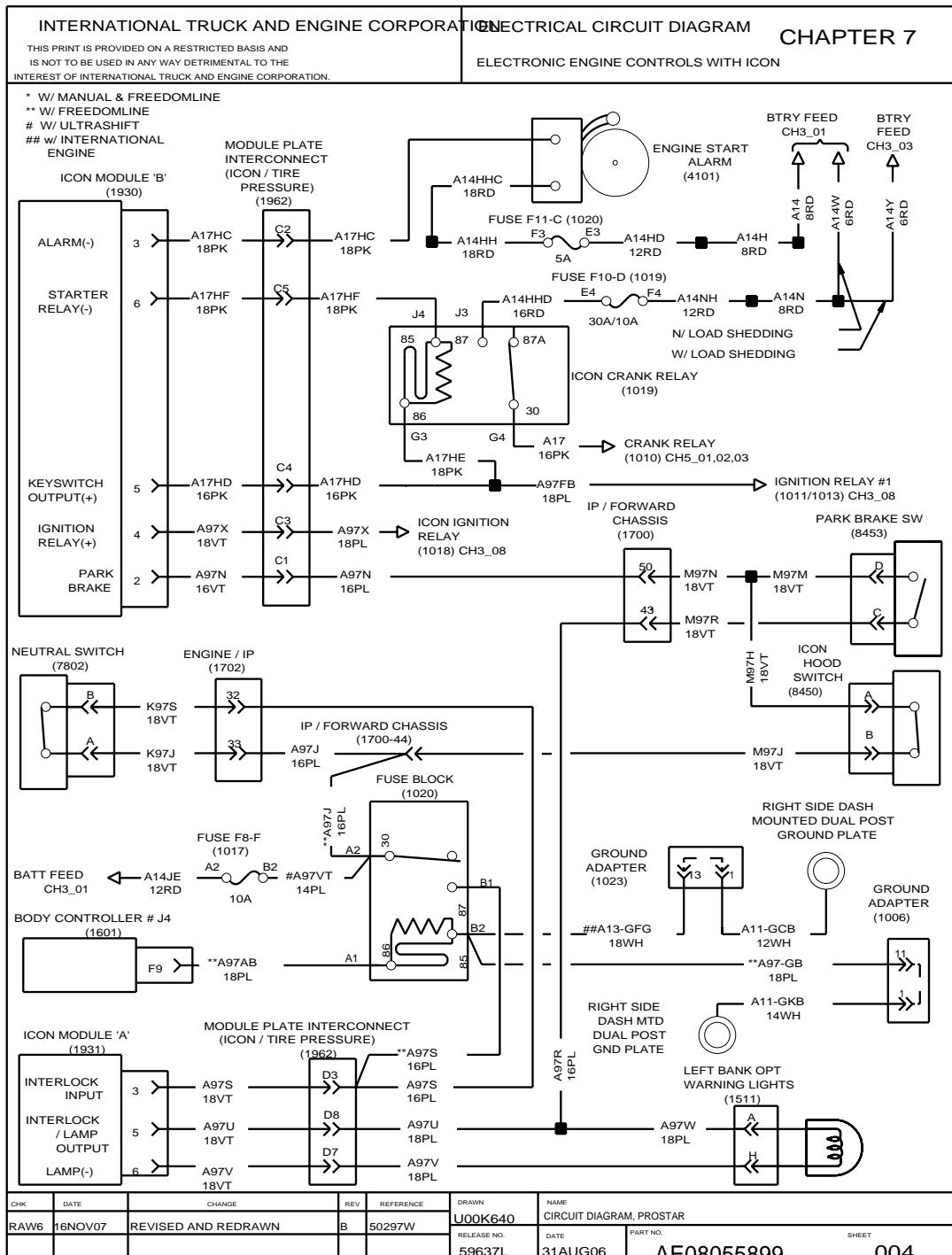


Figure 94 Electronic Engine Controls with ICON

7.5. ELECTRONIC ENGINE CONTROLS WITH ICON, P. 5

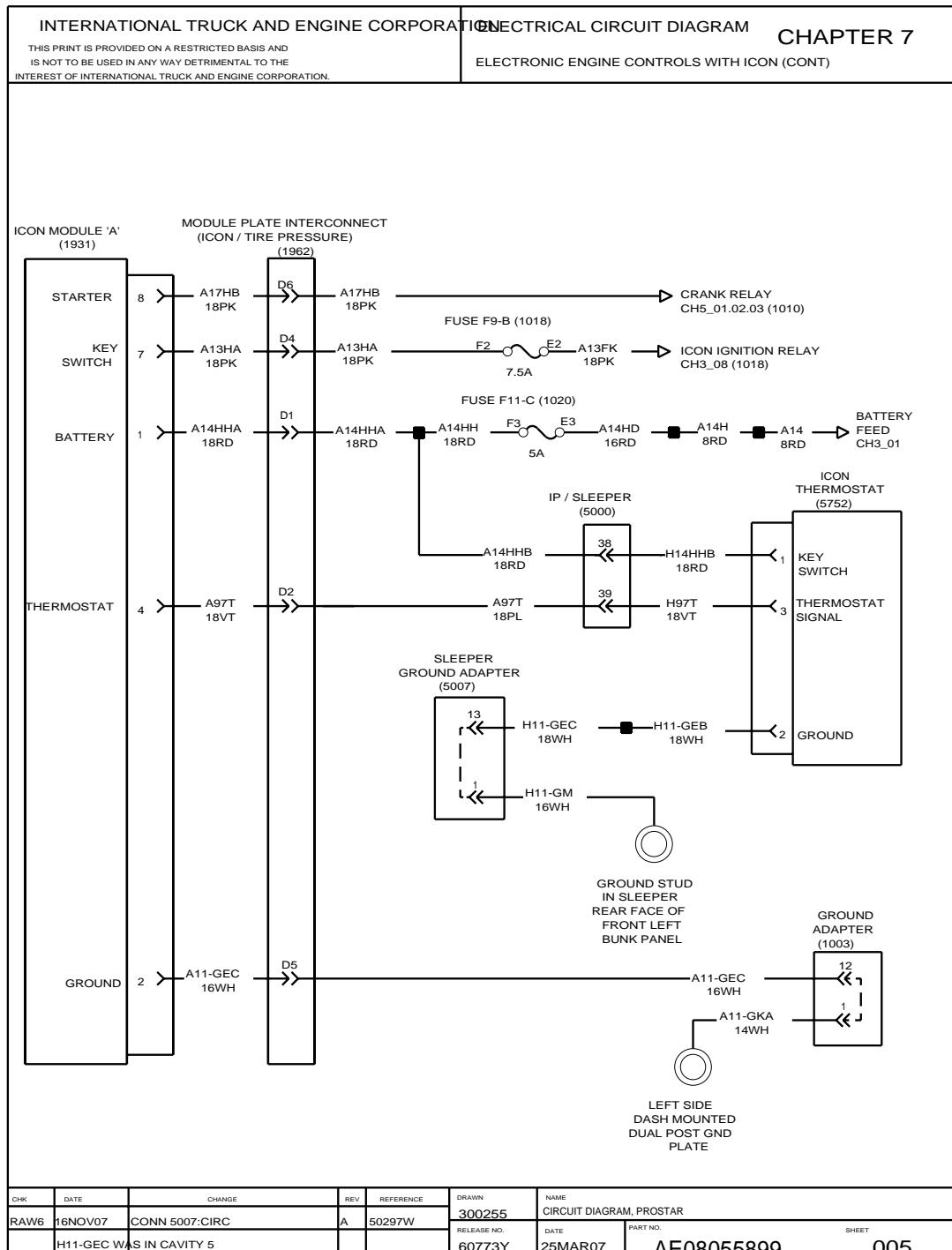


Figure 95 Electronic Engine Controls with ICON (Cont.)

7.6. ELECTRONIC ENGINE CONTROLS WITH ICON, P. 6

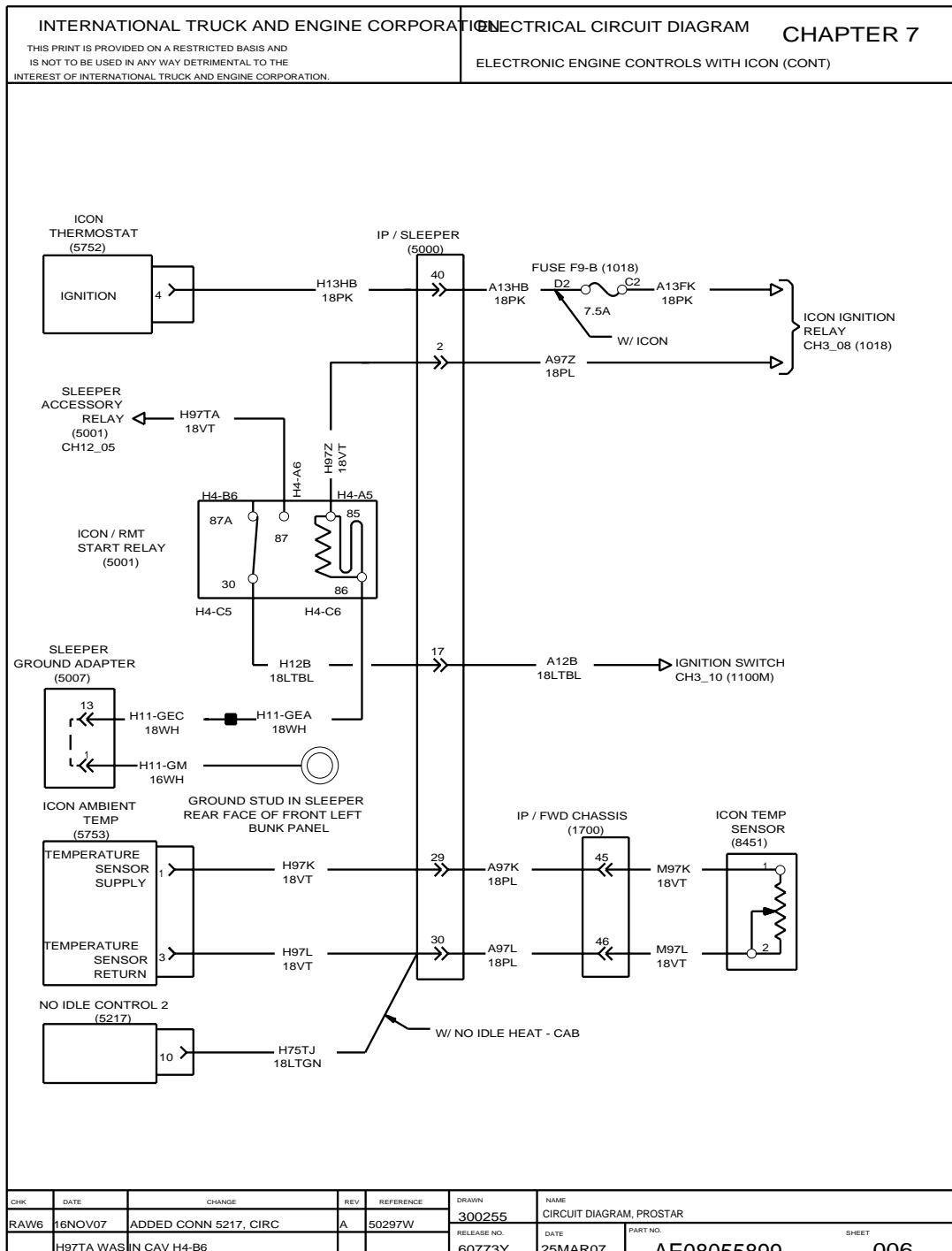


Figure 96 Electronic Engine Controls with ICON (Cont.)

7.7. REMOTE START/STOP, P. 7

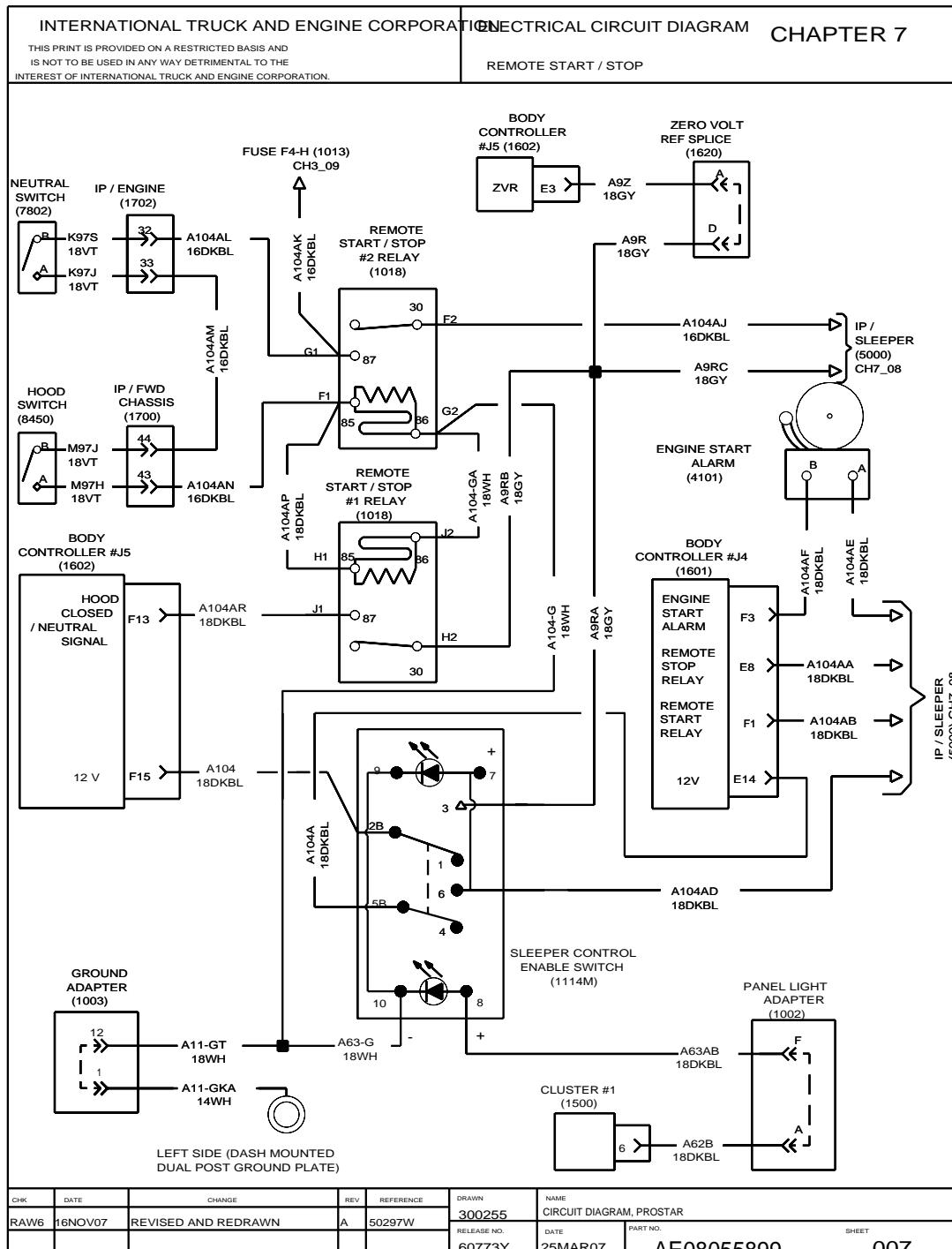


Figure 97 Remote Start/Stop

7.8. REMOTE START/STOP, P. 8

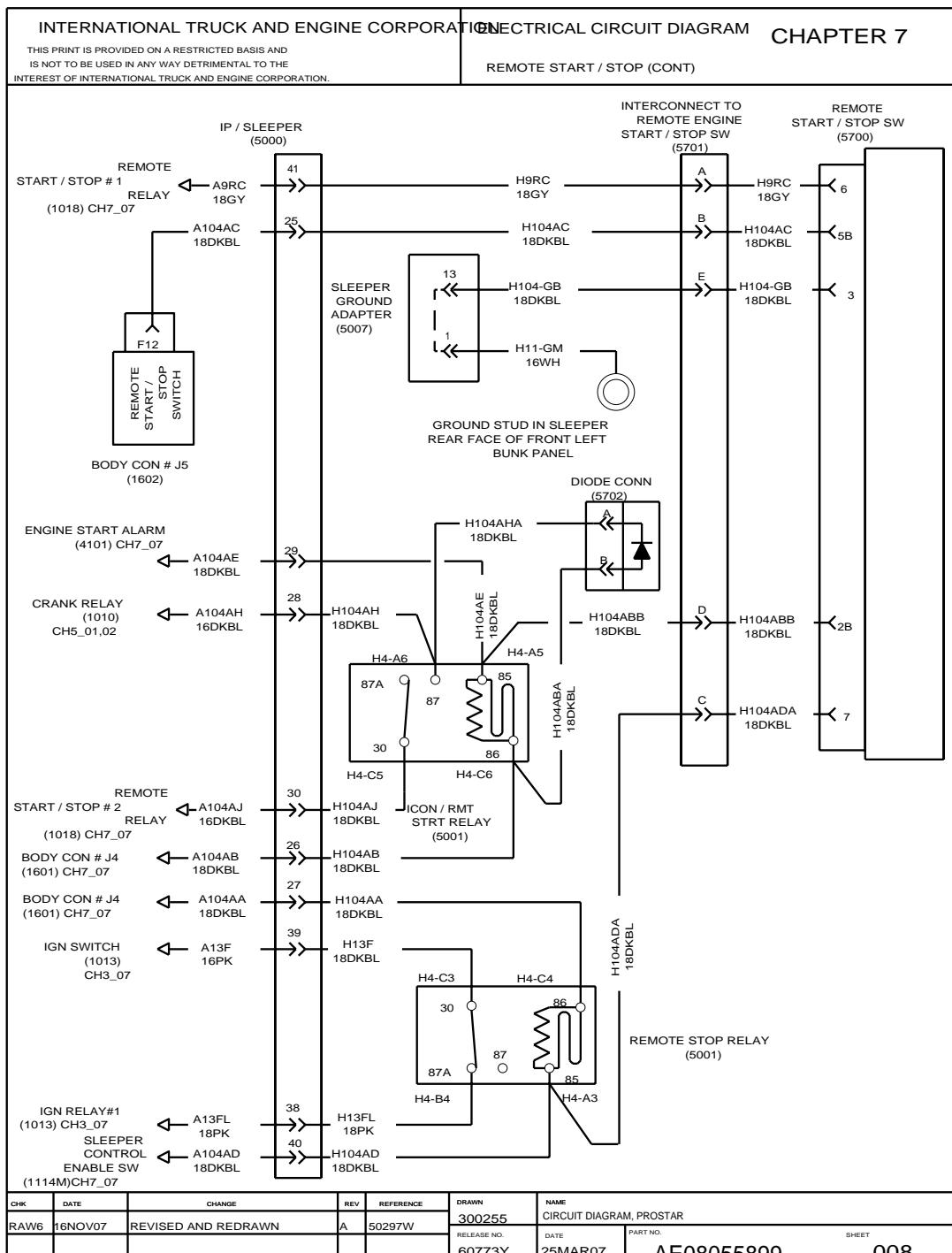


Figure 98 Remote Start/Stop (Cont.)

7.9. NO IDLE ENGINE HEAT, P. 9

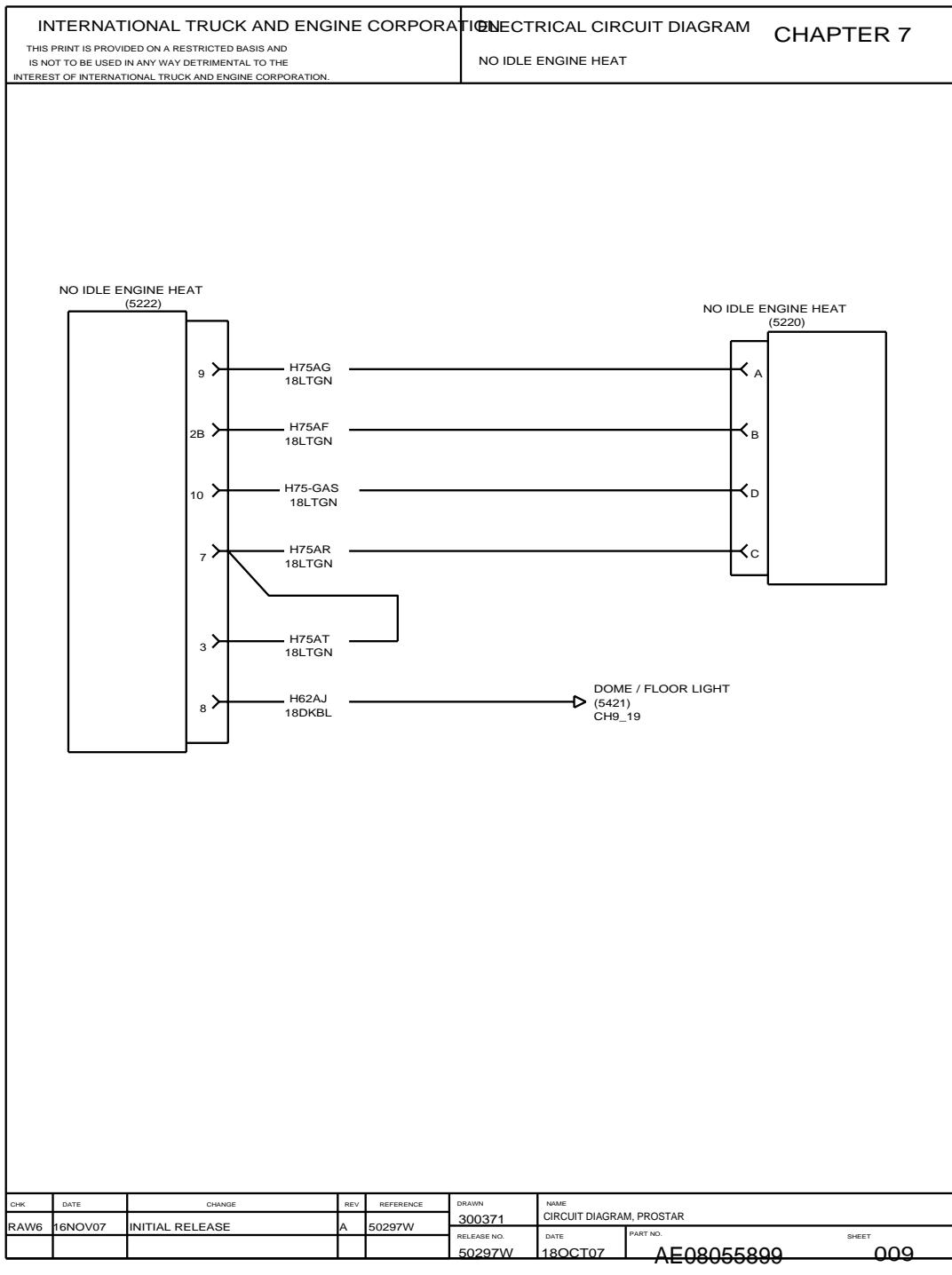


Figure 99 No Idle Engine Heat

7.10. TRI-PAC NO IDLE, P. 10

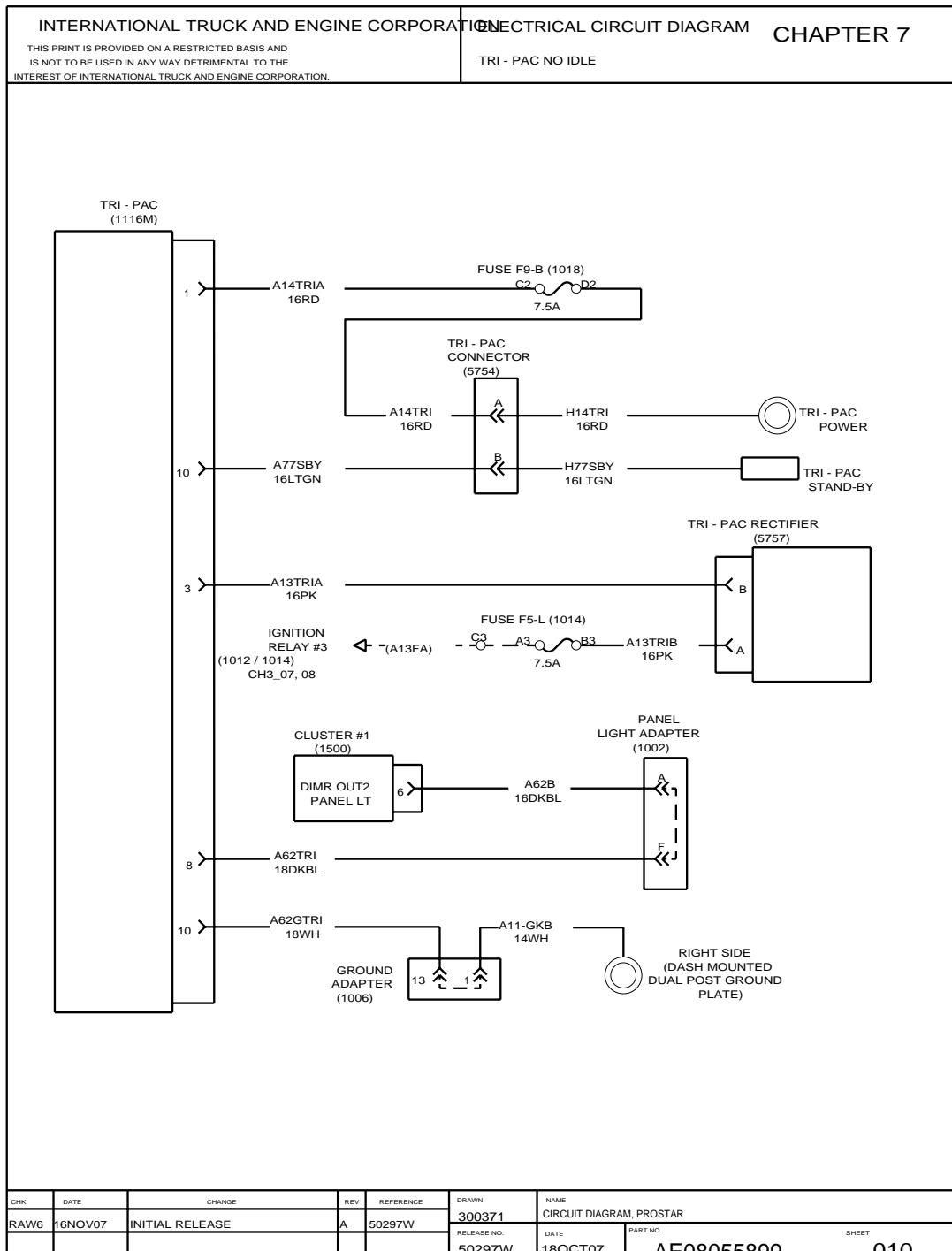


Figure 100 Tri-Pac No Idle

7.11. ELECTRONIC ENGINE CONTROLS (IBB ENGINE), P. 11

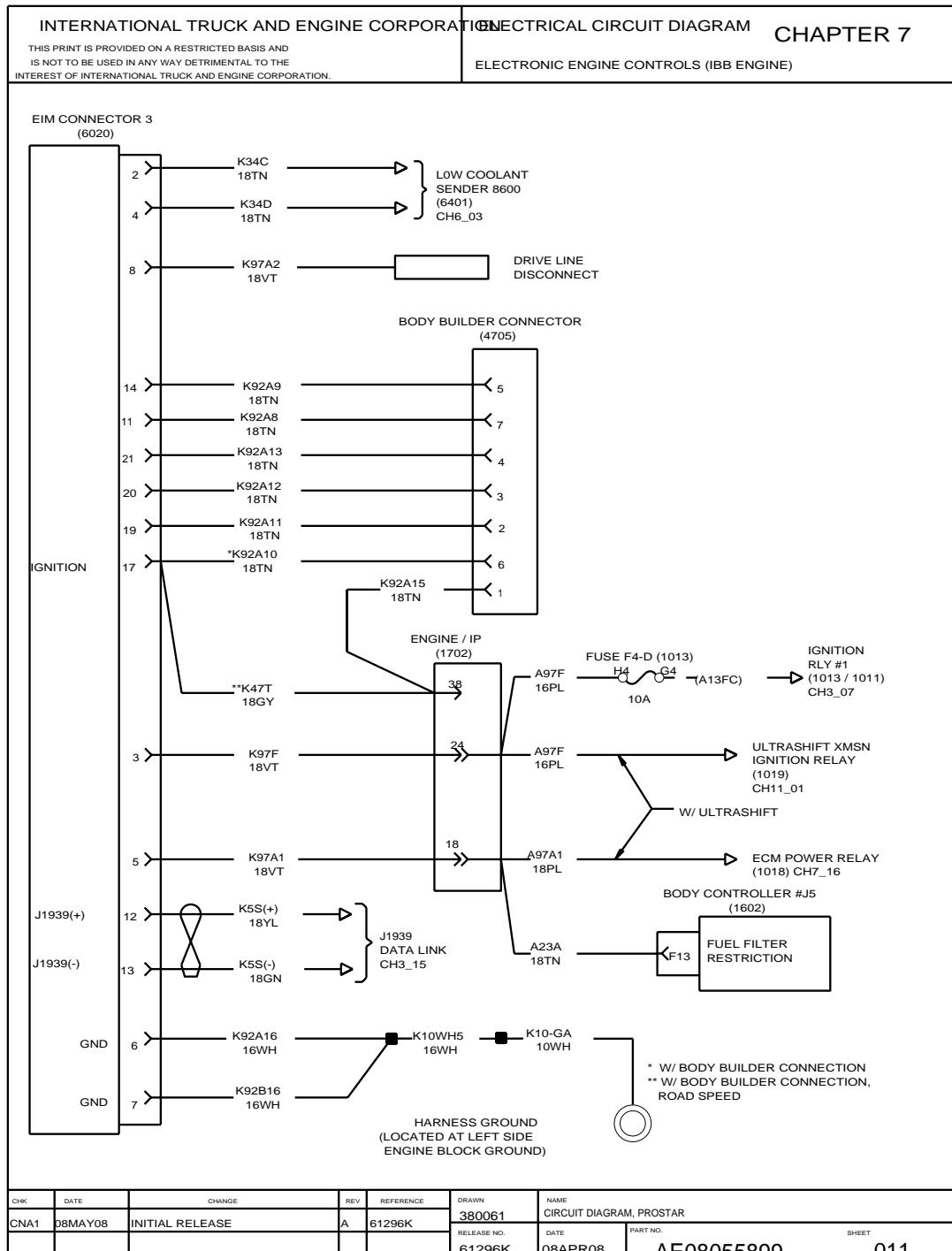


Figure 101 Electronic Engine Controls (IBB Engine)

7.12. ELECTRONIC ENGINE CONTROLS (IBB ENGINE), P. 12

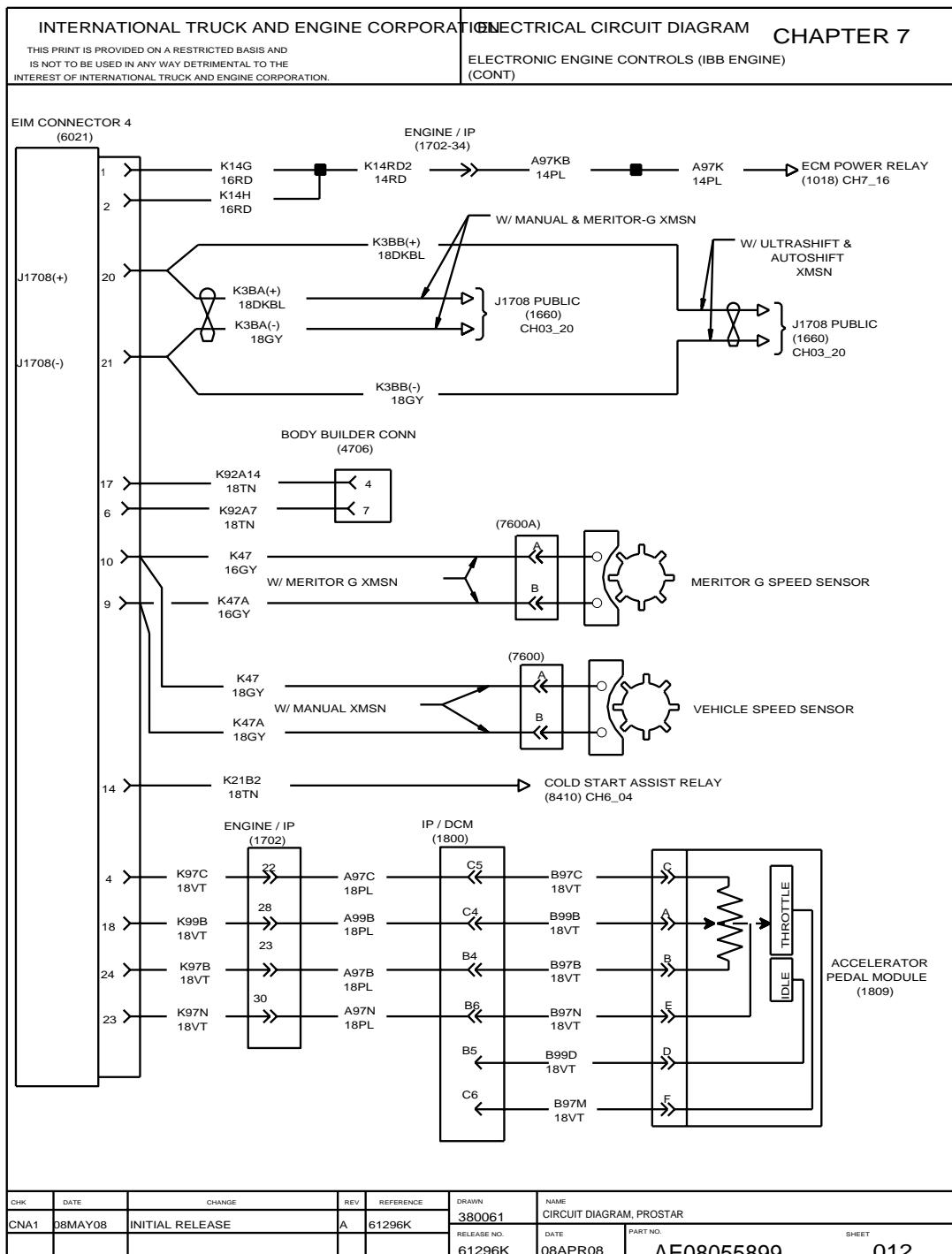


Figure 102 Electronic Engine Controls (IBB Engine)

7.13. ELECTRONIC ENGINE CONTROLS (IBB ENGINE), P. 13

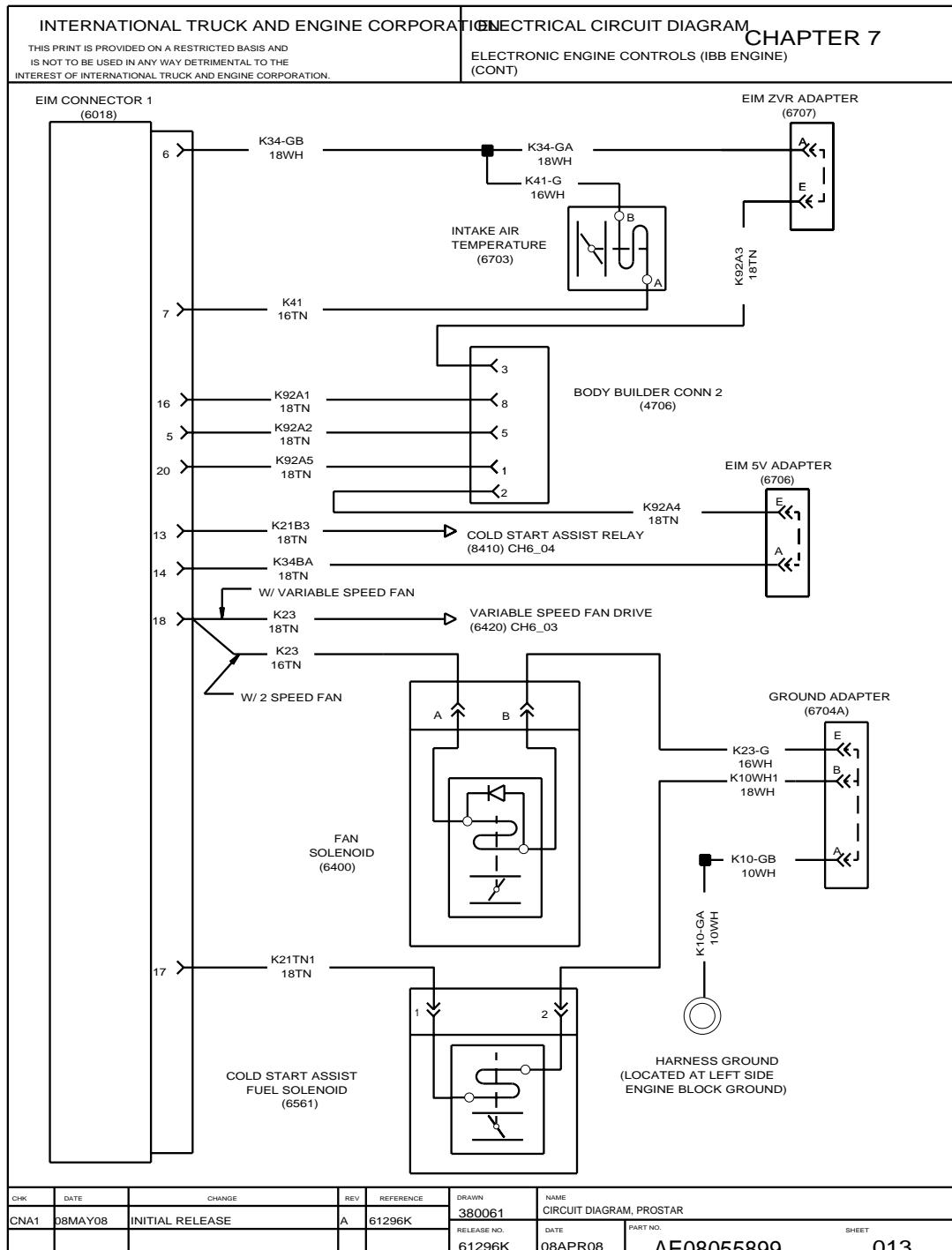


Figure 103 Electronic Engine Controls (IBB Engine)

7.14. ELECTRONIC ENGINE CONTROLS (IBB ENGINE), P. 14

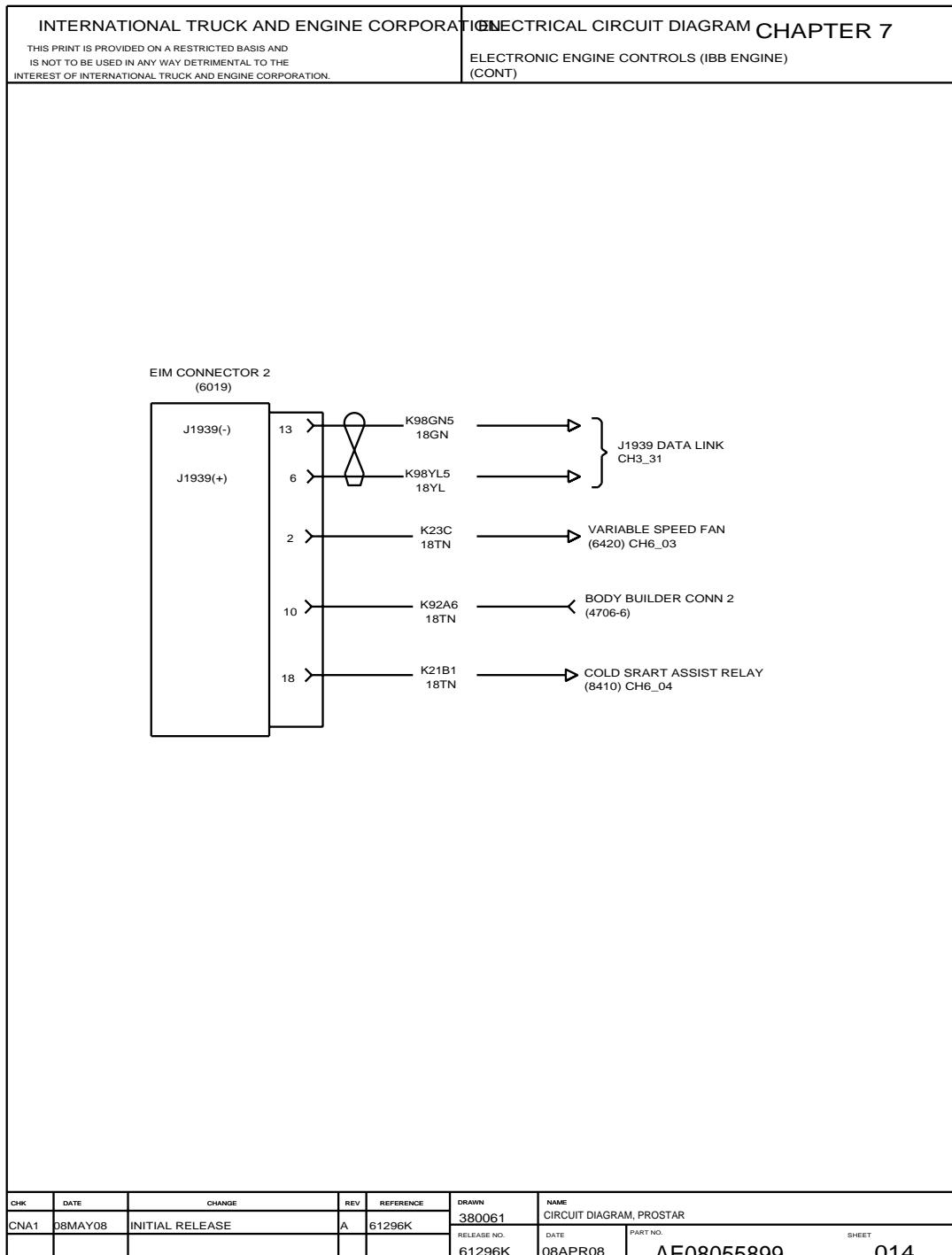


Figure 104 Electronic Engine Controls (IBB Engine)

7.15. ELECTRONIC ENGINE CONTROLS (IBB ENGINE), P. 15

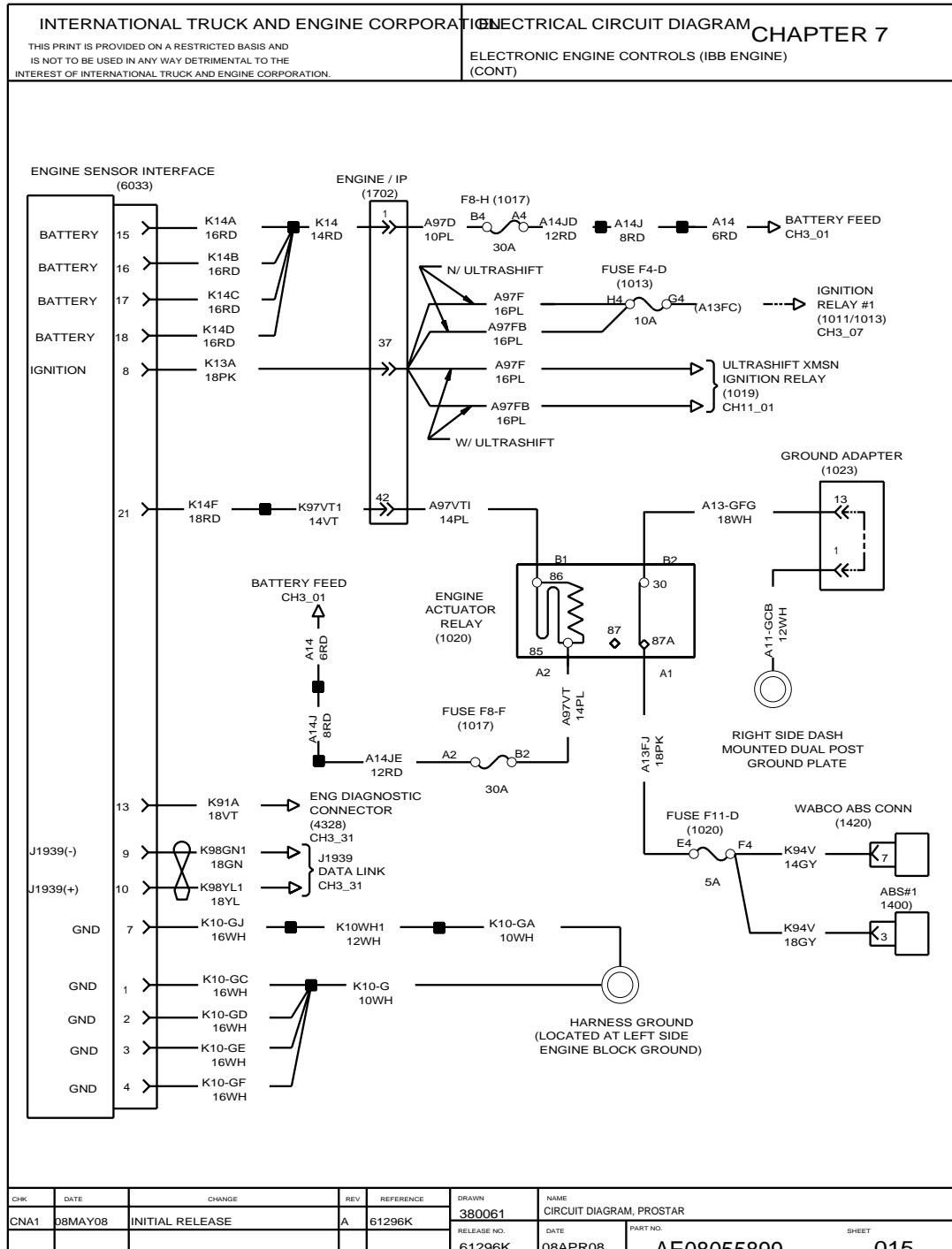


Figure 105 Electronic Engine Controls (IBB Engine)

7.16. AFTERTREATMENT (IBB ENGINE), P. 16

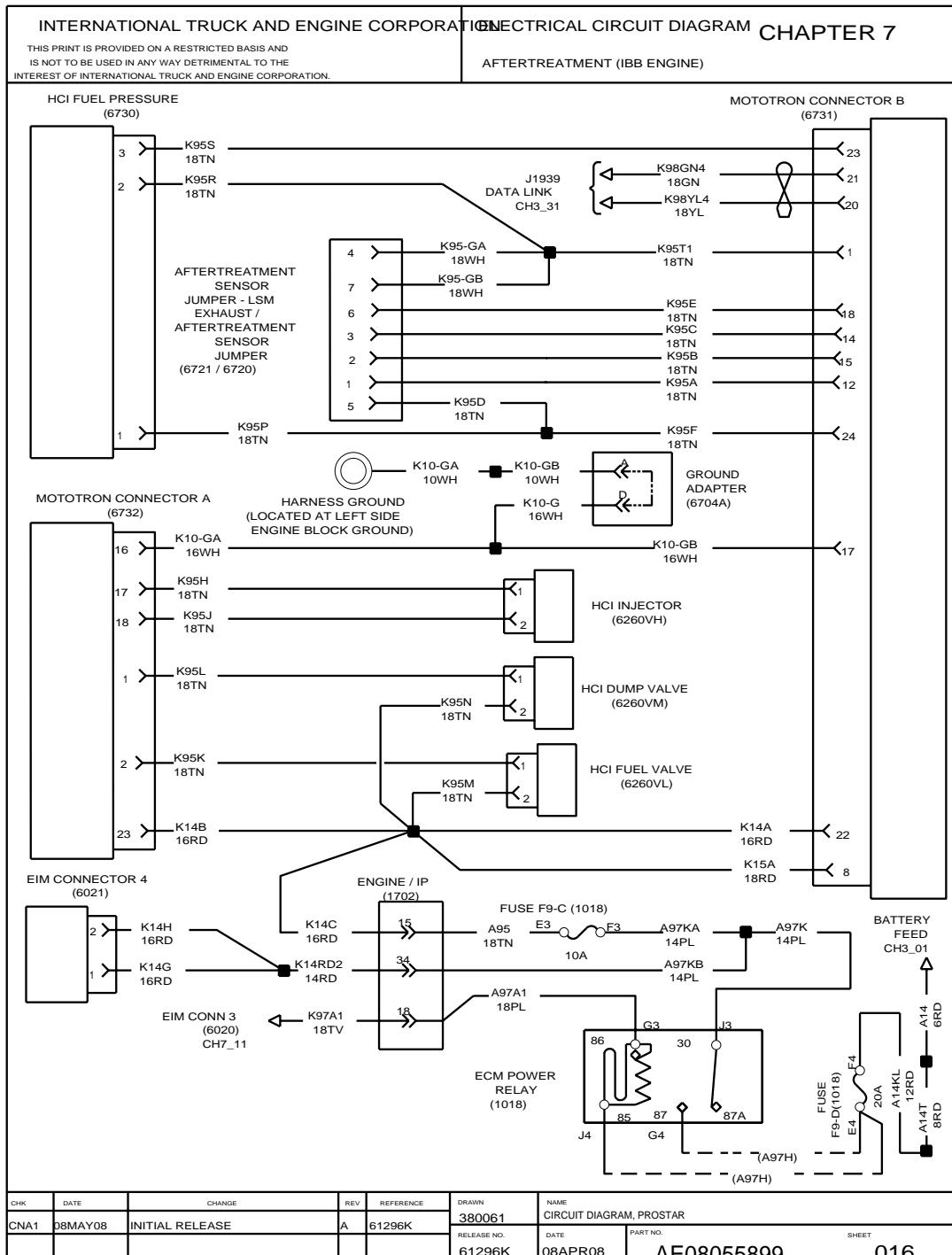


Figure 106 Aftertreatment (IBB Engine)

8. GAUGES AND WARNING LIGHTS (CHAPTER 8)

8.1. AIR PRESSURE INPUT CIRCUIT AND AIR RESTRICTION GAUGE, P. 1

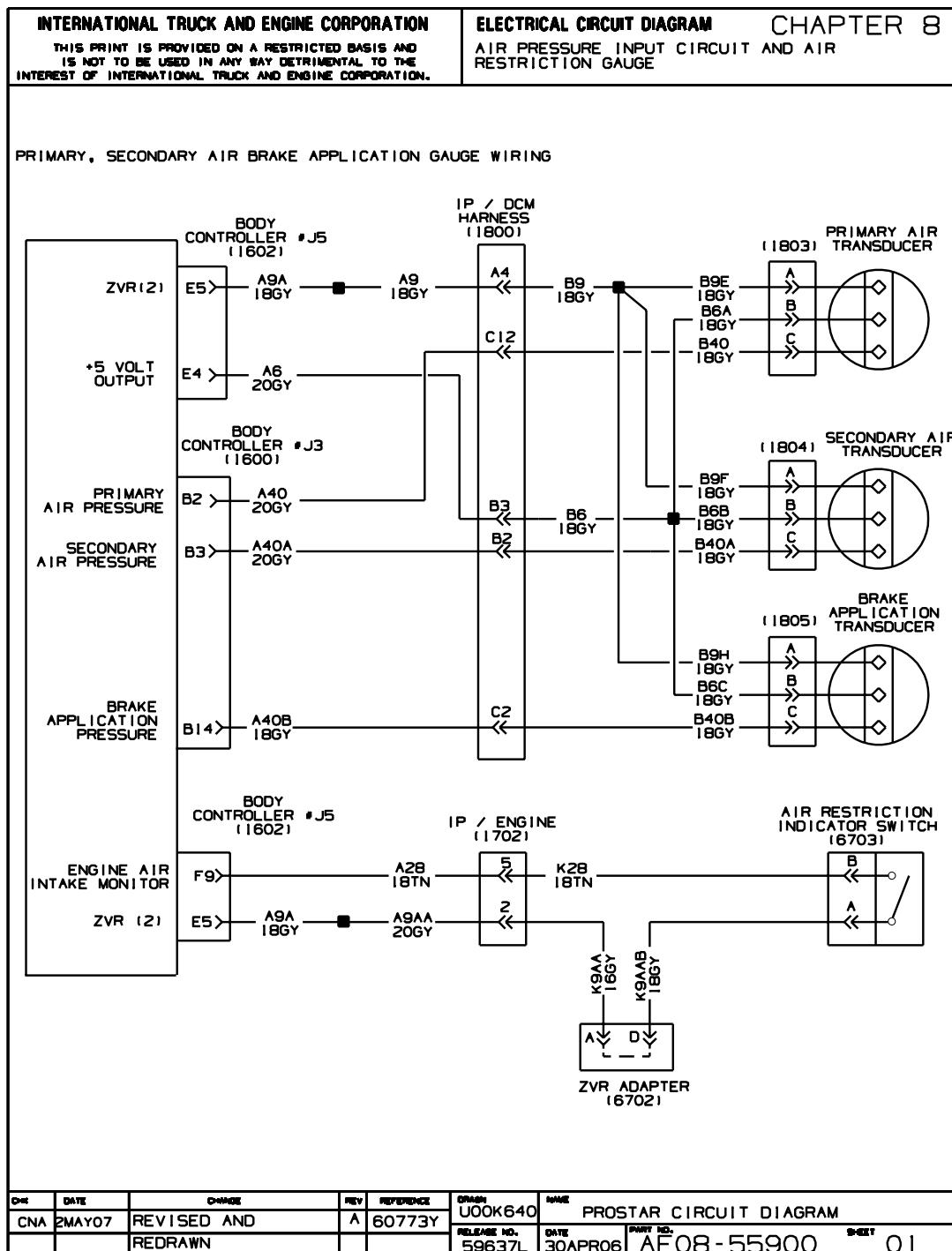


Figure 107 Air Pressure Input Circuit and Air Restriction Gauge

8.2. AXLE TEMPERATURE GAUGES, P. 2

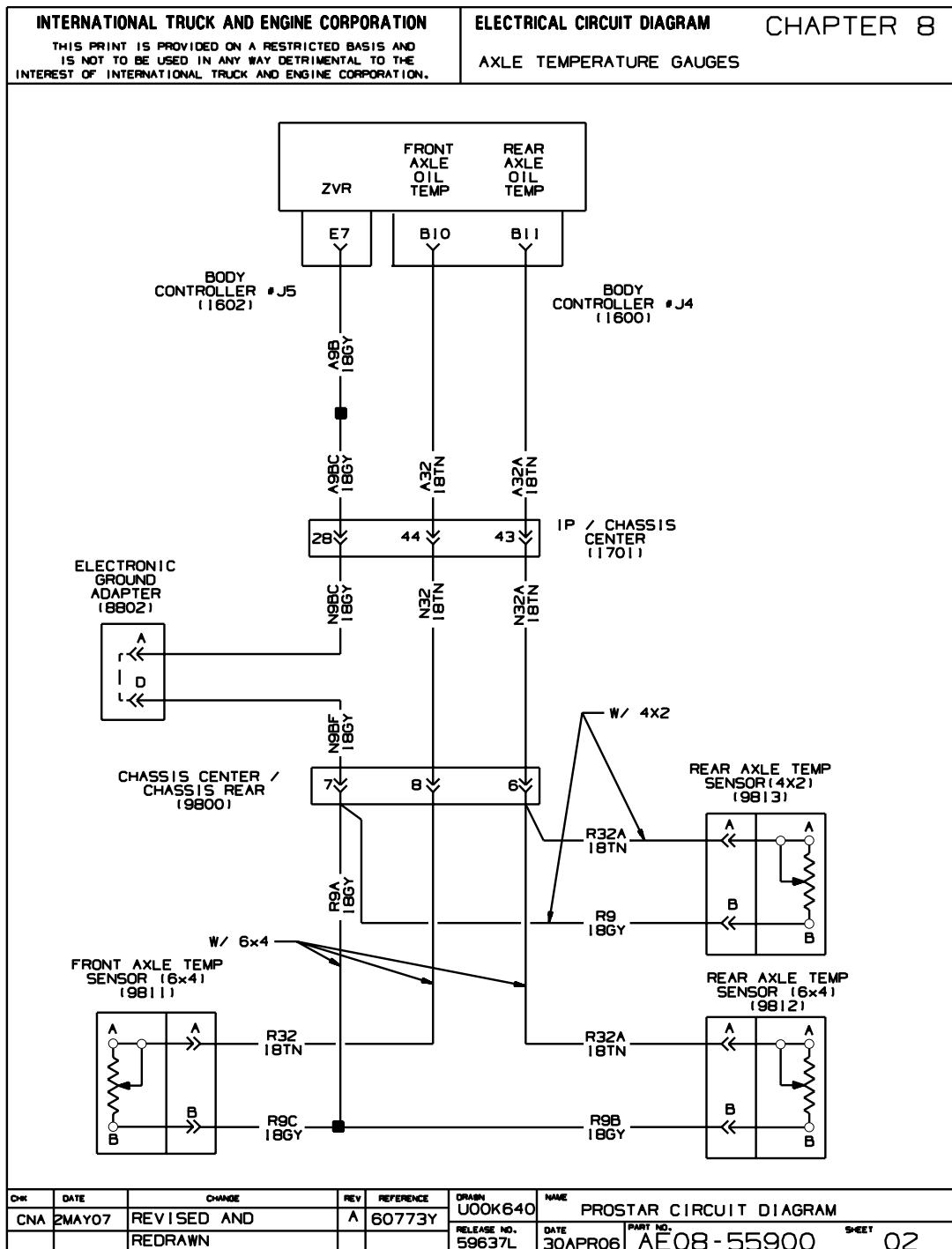


Figure 108 Axle Temperature Gauges

8.3. ENGINE OIL PRESSURE AND TEMPERATURE, SPEEDOMETER, TACHOMETER, VOLTMETER AND WATER TEMP. GAUGES, P. 3

INTERNATIONAL TRUCK AND ENGINE CORPORATION THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF INTERNATIONAL TRUCK AND ENGINE CORPORATION.	ELECTRICAL CIRCUIT DIAGRAM CHAPTER 8 ENGINE OIL PRESSURE AND TEMP, SPEEDO, TACH, VOLTMETER AND WATER TEMP GAUGE
REFER TO CONSOLIDATED ENGINE / VEHICLE CONTROLLER DIAGNOSTICS MANUAL FOR CIRCUIT DIAGRAMS SHOWING INPUT CIRCUITRY 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 _____ _____ _____ _____ _____ U00K640 PROSTAR CIRCUIT DIAGRAM	
RELEASE NO. DATE PART NO. SHEET 59637L 30APR06 AF08-55900 03	

Figure 109 Engine Oil Pressure and Temperature, Speedometer, Tachometer, Voltmeter and Water Temp. Gauges

8.4. ENGINE OIL AND TRANSMISSION OIL TEMPERATURE GAUGES, P. 4

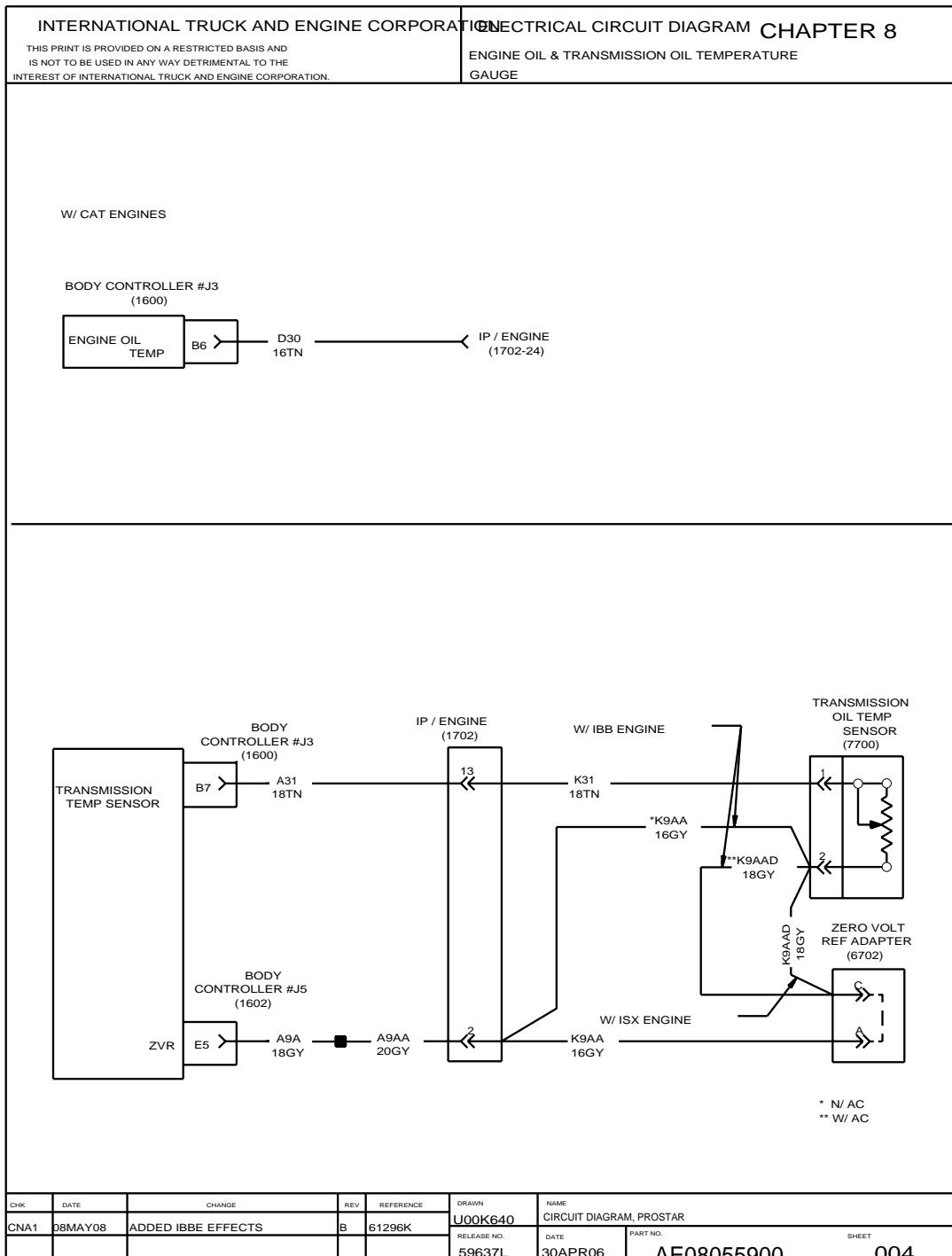


Figure 110 Engine Oil and Transmission Oil Temperature Gauges

8.5. FUEL HEATER, P. 5

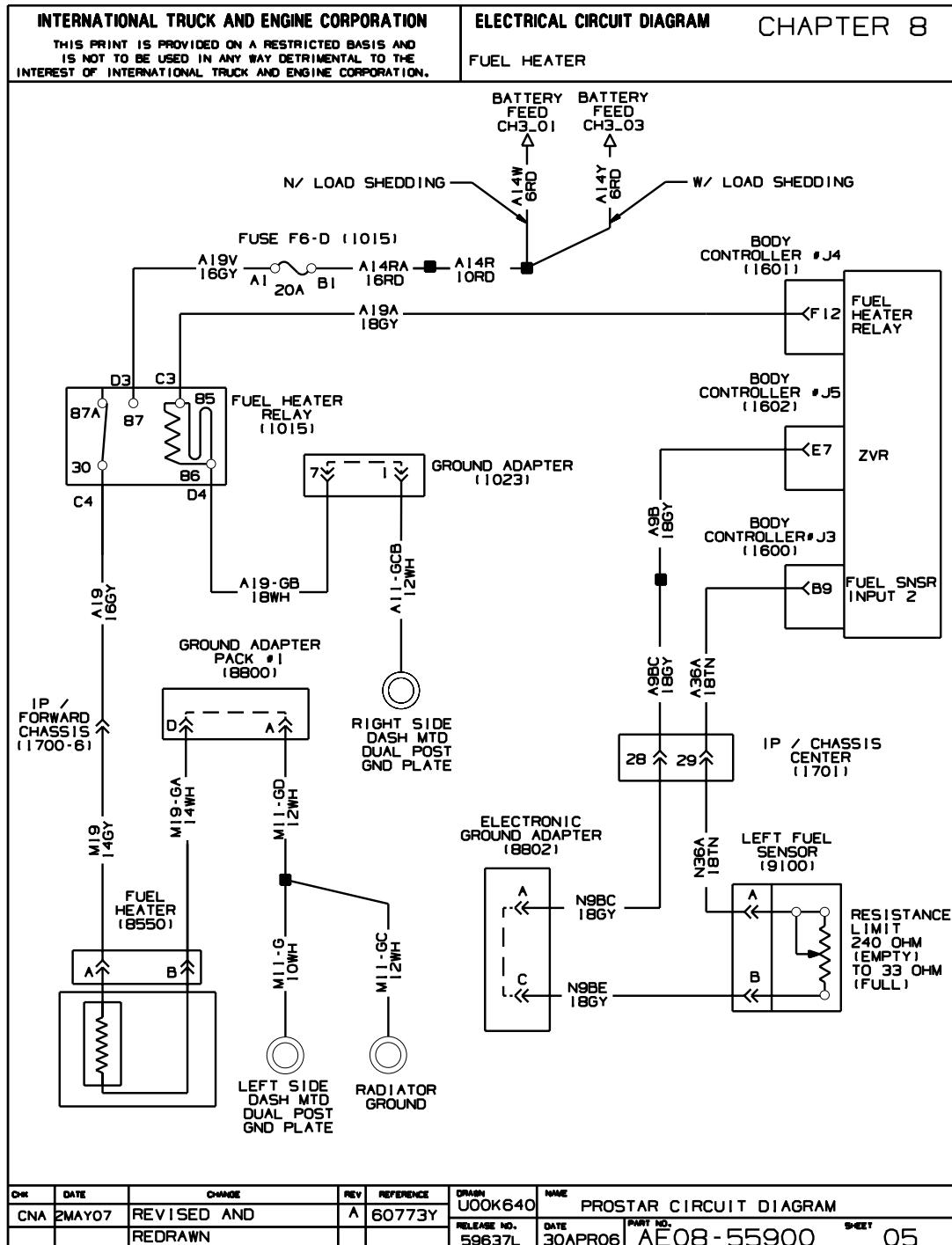


Figure 111 Fuel Heater

8.6. FUEL TRANSFER PUMP FOR DUAL TANK, P. 6

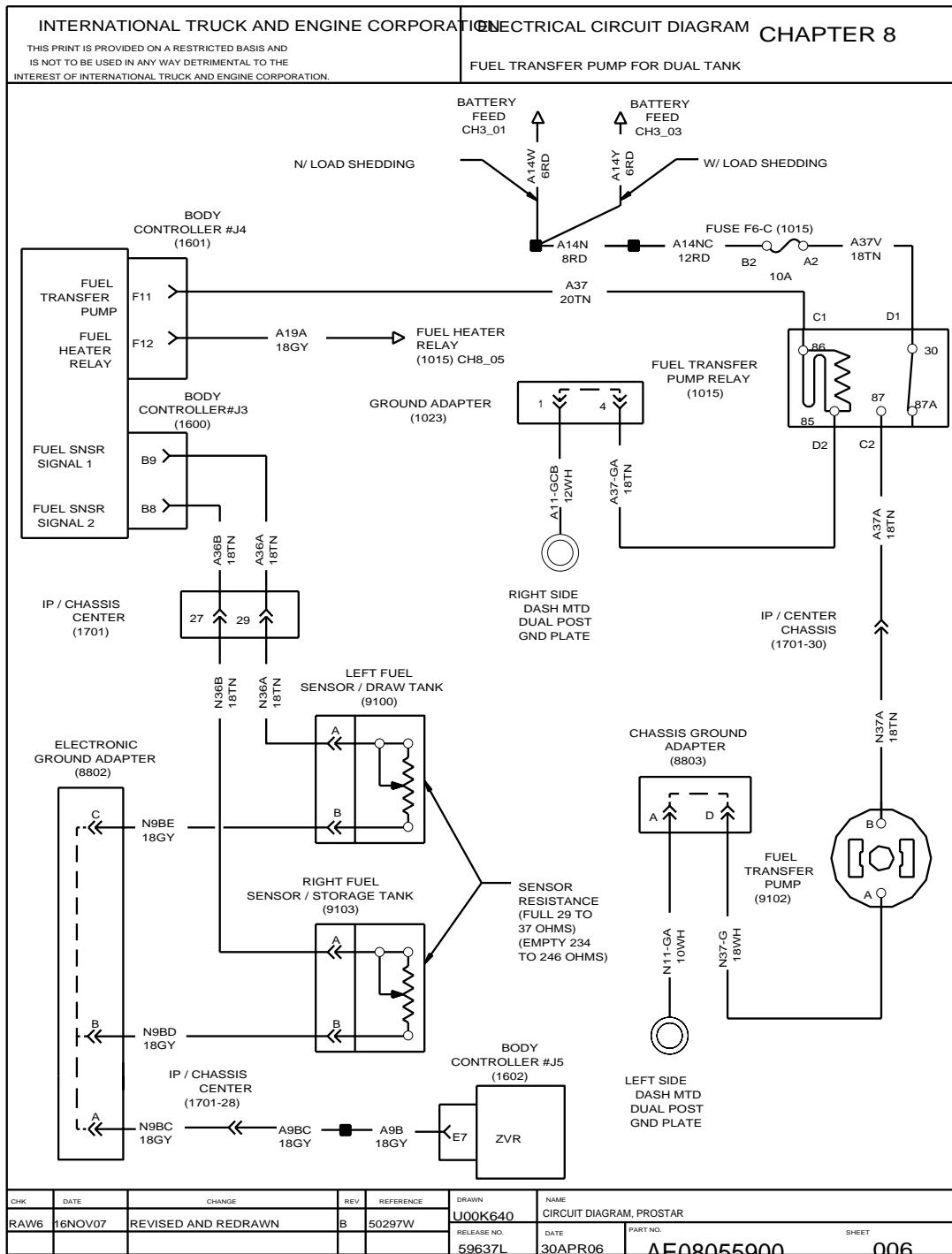


Figure 112 Fuel Transfer Pump for Dual Tank

8.7. DIFFERENTIAL LOCK AND OPTIONAL INDICATOR, P. 7

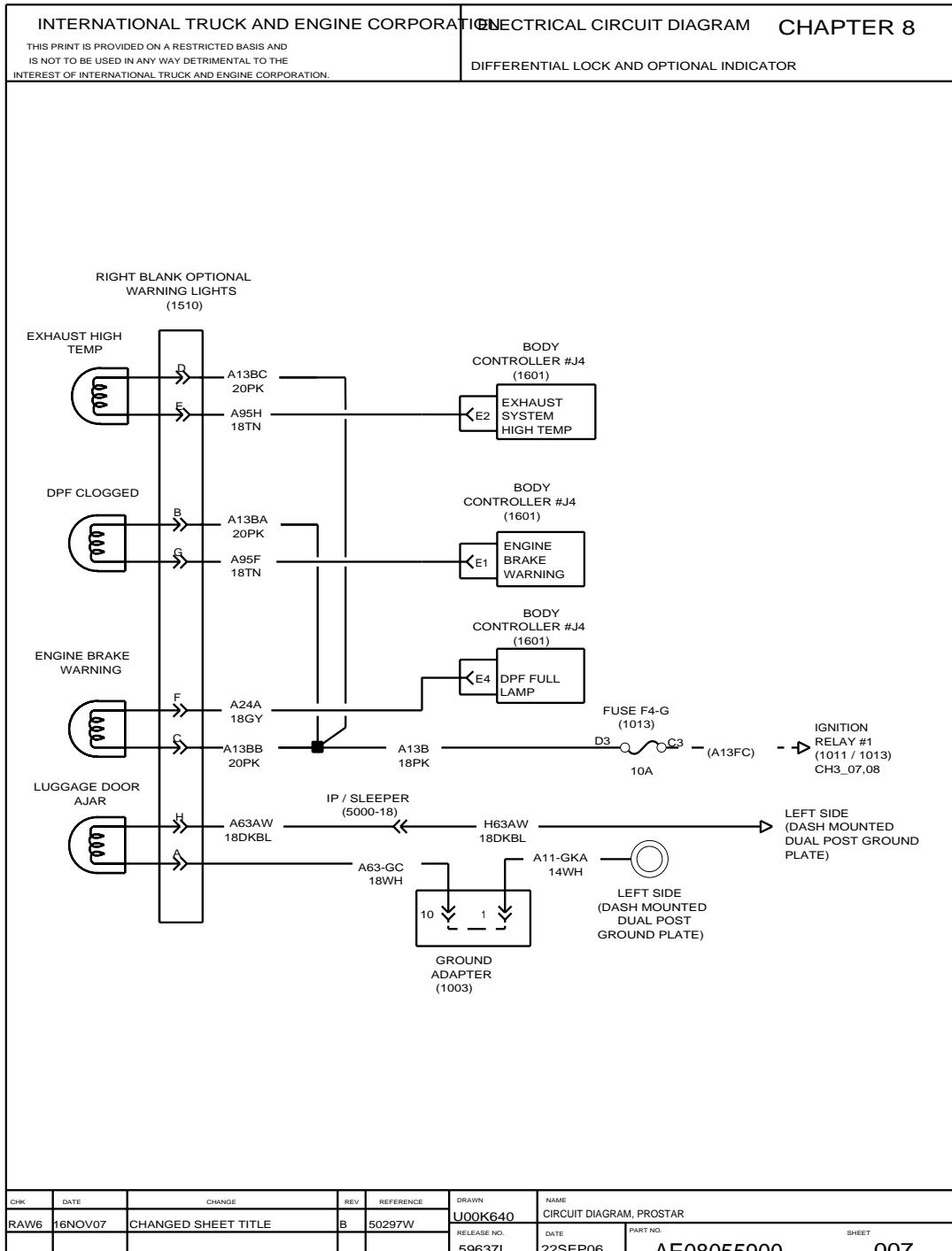


Figure 113 Differential Lock and Optional Indicator

8.8. DIFFERENTIAL LOCK AND OPTIONAL INDICATOR, P. 8

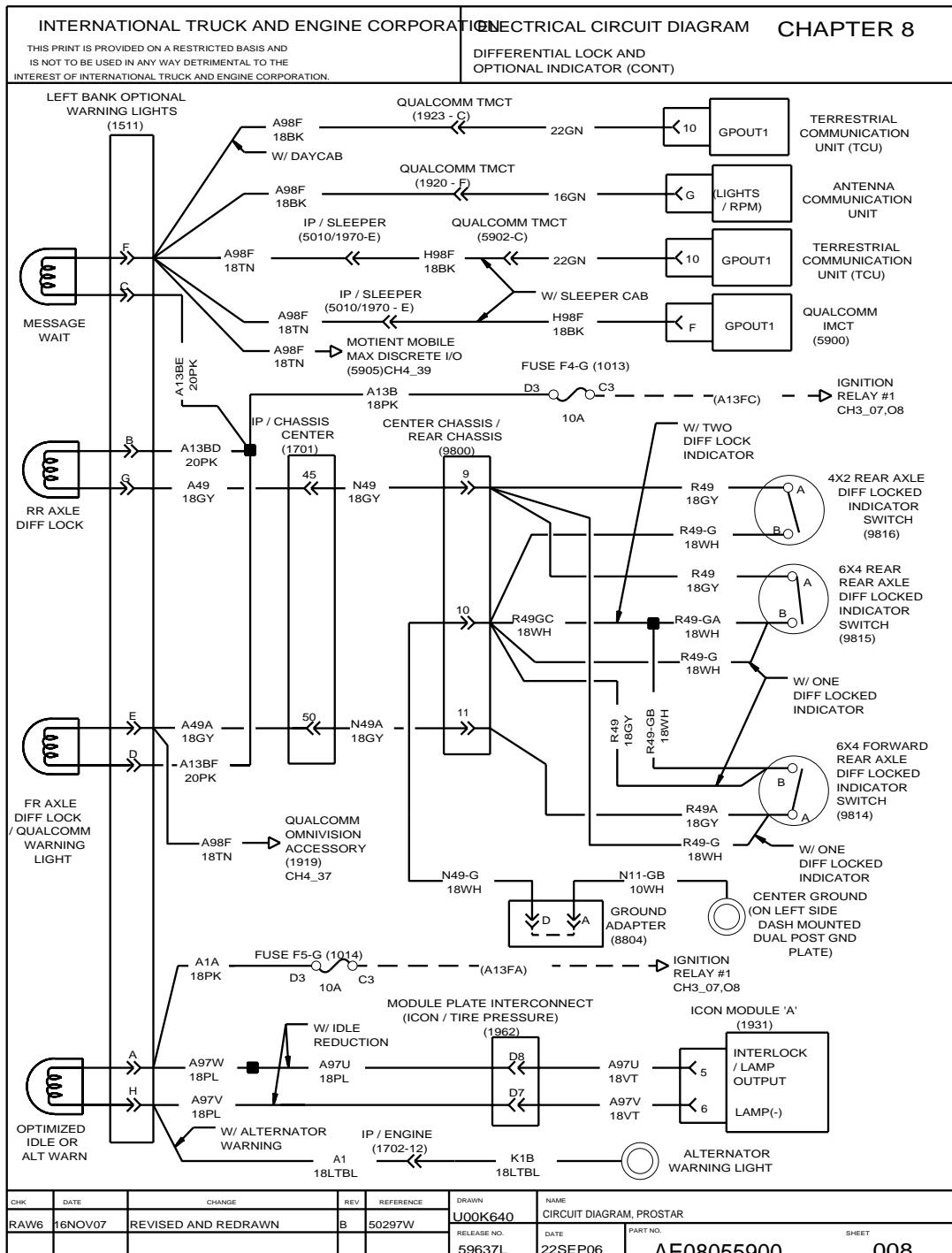


Figure 114 Differential Lock and Optional Indicator (Cont.)

8.9. BLANK PAGE, P. 9

INTERNATIONAL TRUCK AND ENGINE CORPORATION THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF INTERNATIONAL TRUCK AND ENGINE CORPORATION.		ELECTRICAL CIRCUIT DIAGRAM	CHAPTER 8																																										
<p style="text-align: center;">INTENTIONALLY LEFT BLANK</p>																																													
<table border="1"><tr><td>CHG:</td><td>DATE</td><td>CHANGE</td><td>REV</td><td>REFERENCE</td><td>DRAWN BY</td><td>NAME</td></tr><tr><td>CNA</td><td>2MAY07</td><td>REMOVED SECONDARY</td><td>A</td><td>60773Y</td><td>U00K640</td><td>PROSTAR CIRCUIT DIAGRAM</td></tr><tr><td colspan="2"></td><td></td><td></td><td></td><td>RELEASE NO.</td><td>SHEET</td></tr><tr><td colspan="2"></td><td></td><td></td><td></td><td>59637L</td><td>09</td></tr><tr><td colspan="2"></td><td></td><td></td><td></td><td>DATE</td><td>PART NO.</td></tr><tr><td colspan="2"></td><td></td><td></td><td></td><td>22SEP06</td><td>AE08-55900</td></tr></table>				CHG:	DATE	CHANGE	REV	REFERENCE	DRAWN BY	NAME	CNA	2MAY07	REMOVED SECONDARY	A	60773Y	U00K640	PROSTAR CIRCUIT DIAGRAM						RELEASE NO.	SHEET						59637L	09						DATE	PART NO.						22SEP06	AE08-55900
CHG:	DATE	CHANGE	REV	REFERENCE	DRAWN BY	NAME																																							
CNA	2MAY07	REMOVED SECONDARY	A	60773Y	U00K640	PROSTAR CIRCUIT DIAGRAM																																							
					RELEASE NO.	SHEET																																							
					59637L	09																																							
					DATE	PART NO.																																							
					22SEP06	AE08-55900																																							

Figure 115 Blank Page

8.10. IP / GAUGES, P. 10

INTERNATIONAL TRUCK AND ENGINE CORPORATION		ELECTRICAL CIRCUIT DIAGRAM		CHAPTER 8																																											
		IP / GAUGES																																													
INSTRUMENT PANEL GAUGE CLUSTER																																															
<table border="1"> <thead> <tr> <th>GAUGE</th> <th>WARN LIGHT</th> <th>SIGNAL PATH</th> <th>SENSOR LOCATION</th> </tr> </thead> <tbody> <tr> <td>RPM (TACH)</td> <td>NO</td> <td>ENGINE CONT / DRIVE TRAIN J1939 / CLUSTER</td> <td>ENGINE</td> </tr> <tr> <td>MPH/KPH (SPD)</td> <td>NO</td> <td>ENGINE CONT / DRIVE TRAIN J1939 / CLUSTER</td> <td>TRANSMISSION</td> </tr> <tr> <td>FUEL</td> <td>YES</td> <td>BODY CONT / DRIVE TRAIN J1939 / CLUSTER</td> <td>FUEL TANK</td> </tr> <tr> <td>VOLT</td> <td>YES</td> <td>BODY CONT / DRIVE TRAIN J1939 / CLUSTER</td> <td>-</td> </tr> <tr> <td>AIR 1 (PRES)</td> <td>YES</td> <td>BODY CONT / DRIVE TRAIN J1939 / CLUSTER</td> <td>DRIVER CONTROL MODULE</td> </tr> <tr> <td>AIR 2 (PRES)</td> <td>YES</td> <td>BODY CONT / DRIVE TRAIN J1939 / CLUSTER</td> <td>DRIVER CONTROL MODULE</td> </tr> <tr> <td>WATER (TEMP)</td> <td>YES</td> <td>ENGINE CONT / DRIVE TRAIN J1939 / CLUSTER</td> <td>ENGINE</td> </tr> <tr> <td>ENG OIL (TEMP)</td> <td>YES</td> <td>ENGINE CONT / DRIVE TRAIN J1939 / CLUSTER</td> <td>ENGINE</td> </tr> <tr> <td>OIL (PRES)</td> <td>YES</td> <td>ENGINE CONT / DRIVE TRAIN J1939 / CLUSTER</td> <td>ENGINE</td> </tr> <tr> <td>TRANS (TEMP)</td> <td>YES</td> <td>BODY CONT / DRIVE TRAIN J1939 / CLUSTER</td> <td>TRANSMISSION</td> </tr> </tbody> </table>				GAUGE	WARN LIGHT	SIGNAL PATH	SENSOR LOCATION	RPM (TACH)	NO	ENGINE CONT / DRIVE TRAIN J1939 / CLUSTER	ENGINE	MPH/KPH (SPD)	NO	ENGINE CONT / DRIVE TRAIN J1939 / CLUSTER	TRANSMISSION	FUEL	YES	BODY CONT / DRIVE TRAIN J1939 / CLUSTER	FUEL TANK	VOLT	YES	BODY CONT / DRIVE TRAIN J1939 / CLUSTER	-	AIR 1 (PRES)	YES	BODY CONT / DRIVE TRAIN J1939 / CLUSTER	DRIVER CONTROL MODULE	AIR 2 (PRES)	YES	BODY CONT / DRIVE TRAIN J1939 / CLUSTER	DRIVER CONTROL MODULE	WATER (TEMP)	YES	ENGINE CONT / DRIVE TRAIN J1939 / CLUSTER	ENGINE	ENG OIL (TEMP)	YES	ENGINE CONT / DRIVE TRAIN J1939 / CLUSTER	ENGINE	OIL (PRES)	YES	ENGINE CONT / DRIVE TRAIN J1939 / CLUSTER	ENGINE	TRANS (TEMP)	YES	BODY CONT / DRIVE TRAIN J1939 / CLUSTER	TRANSMISSION
GAUGE	WARN LIGHT	SIGNAL PATH	SENSOR LOCATION																																												
RPM (TACH)	NO	ENGINE CONT / DRIVE TRAIN J1939 / CLUSTER	ENGINE																																												
MPH/KPH (SPD)	NO	ENGINE CONT / DRIVE TRAIN J1939 / CLUSTER	TRANSMISSION																																												
FUEL	YES	BODY CONT / DRIVE TRAIN J1939 / CLUSTER	FUEL TANK																																												
VOLT	YES	BODY CONT / DRIVE TRAIN J1939 / CLUSTER	-																																												
AIR 1 (PRES)	YES	BODY CONT / DRIVE TRAIN J1939 / CLUSTER	DRIVER CONTROL MODULE																																												
AIR 2 (PRES)	YES	BODY CONT / DRIVE TRAIN J1939 / CLUSTER	DRIVER CONTROL MODULE																																												
WATER (TEMP)	YES	ENGINE CONT / DRIVE TRAIN J1939 / CLUSTER	ENGINE																																												
ENG OIL (TEMP)	YES	ENGINE CONT / DRIVE TRAIN J1939 / CLUSTER	ENGINE																																												
OIL (PRES)	YES	ENGINE CONT / DRIVE TRAIN J1939 / CLUSTER	ENGINE																																												
TRANS (TEMP)	YES	BODY CONT / DRIVE TRAIN J1939 / CLUSTER	TRANSMISSION																																												
SECONDARY GAUGE CLUSTER																																															
<table border="1"> <thead> <tr> <th>GAUGE</th> <th>WARN LIGHT</th> <th>SIGNAL PATH</th> <th>SENSOR LOCATION</th> </tr> </thead> <tbody> <tr> <td>REAR RR AXLE OIL TEMP</td> <td>YES</td> <td>BODY CONT / DRIVE TRAIN J1939 / CLUSTER</td> <td>REAR RR AXLE</td> </tr> <tr> <td>FORWARD RR AXLE OIL TEMP</td> <td>YES</td> <td>BODY CONT / DRIVE TRAIN J1939 / CLUSTER</td> <td>FORWARD RR AXLE</td> </tr> <tr> <td>BOOST PRESSURE</td> <td>NO</td> <td>ENGINE CONT / DRIVE TRAIN J1939 / CLUSTER</td> <td>ENGINE</td> </tr> <tr> <td>AIR APPLICATION</td> <td>NO</td> <td>BODY CONT / DRIVE TRAIN J1939 / CLUSTER</td> <td>DRIVER CONTROL MODULE</td> </tr> </tbody> </table>					GAUGE	WARN LIGHT	SIGNAL PATH	SENSOR LOCATION	REAR RR AXLE OIL TEMP	YES	BODY CONT / DRIVE TRAIN J1939 / CLUSTER	REAR RR AXLE	FORWARD RR AXLE OIL TEMP	YES	BODY CONT / DRIVE TRAIN J1939 / CLUSTER	FORWARD RR AXLE	BOOST PRESSURE	NO	ENGINE CONT / DRIVE TRAIN J1939 / CLUSTER	ENGINE	AIR APPLICATION	NO	BODY CONT / DRIVE TRAIN J1939 / CLUSTER	DRIVER CONTROL MODULE																							
GAUGE	WARN LIGHT	SIGNAL PATH	SENSOR LOCATION																																												
REAR RR AXLE OIL TEMP	YES	BODY CONT / DRIVE TRAIN J1939 / CLUSTER	REAR RR AXLE																																												
FORWARD RR AXLE OIL TEMP	YES	BODY CONT / DRIVE TRAIN J1939 / CLUSTER	FORWARD RR AXLE																																												
BOOST PRESSURE	NO	ENGINE CONT / DRIVE TRAIN J1939 / CLUSTER	ENGINE																																												
AIR APPLICATION	NO	BODY CONT / DRIVE TRAIN J1939 / CLUSTER	DRIVER CONTROL MODULE																																												
<p>NOTES:</p> <p>I. WARNING LIGHTS ARE PART OF THE GAUGES AND LOCATED IN THE GAUGE CLUSTER</p>																																															
CHG	DATE	CHANGE	REV	REFERENCE																																											
CNA	2MAY07	ADDED TABULAR NOTE	A	60773Y																																											
				DRAWN U00K640																																											
				NAME PROSTAR CIRCUIT DIAGRAM																																											
				RELEASE NO. 59637L																																											
				DATE 30AUG06																																											
				PART NO. AE08-55900																																											
				SHEET 10																																											

Figure 116 IP / Gauges

8.11. IP / GAUGES AND WARNING LIGHTS — GAUGE CLUSTER, P. 11

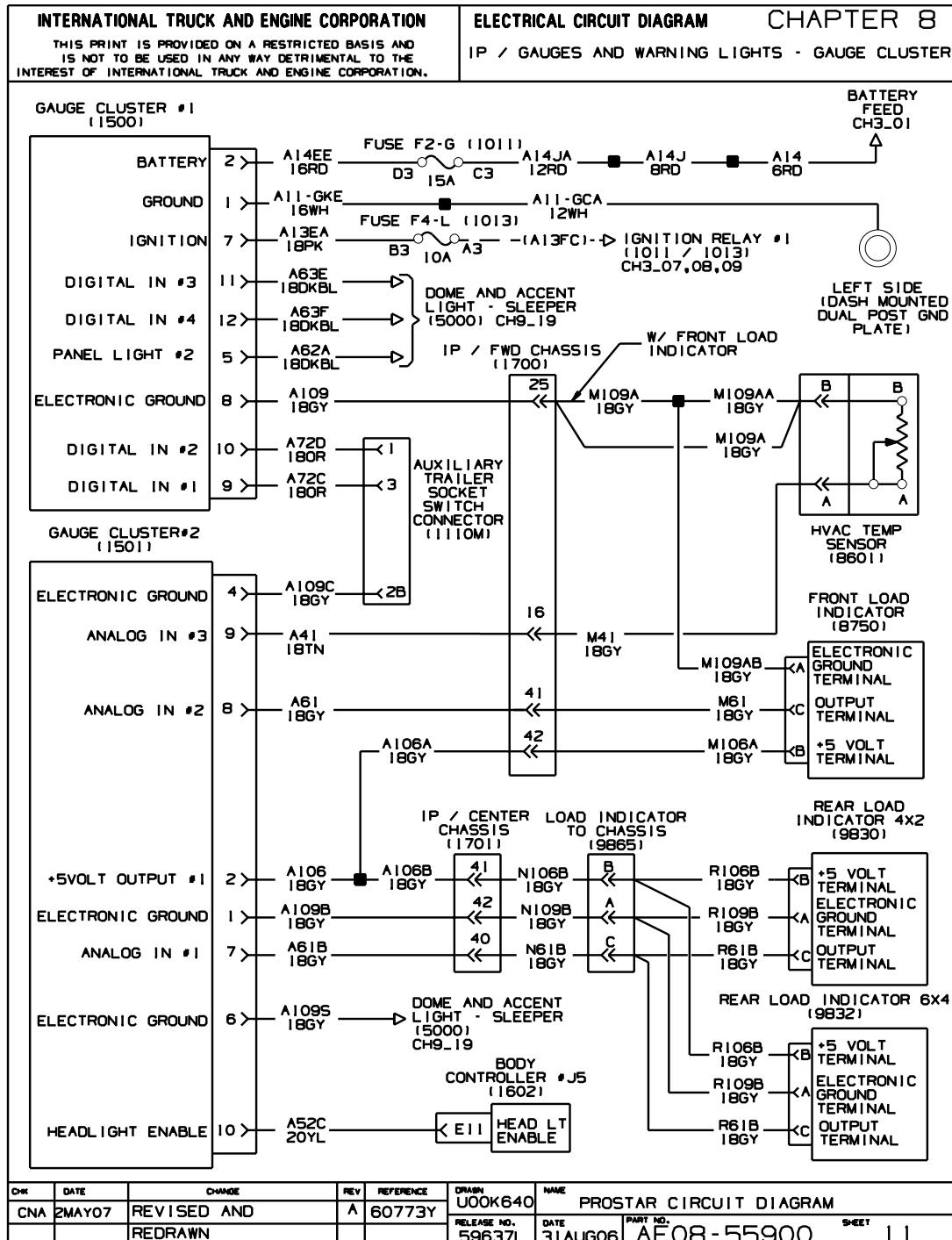


Figure 117 IP / Gauges and Warning Lights — Gauge Cluster

8.12. SECONDARY INSTRUMENT CLUSTER, P. 12

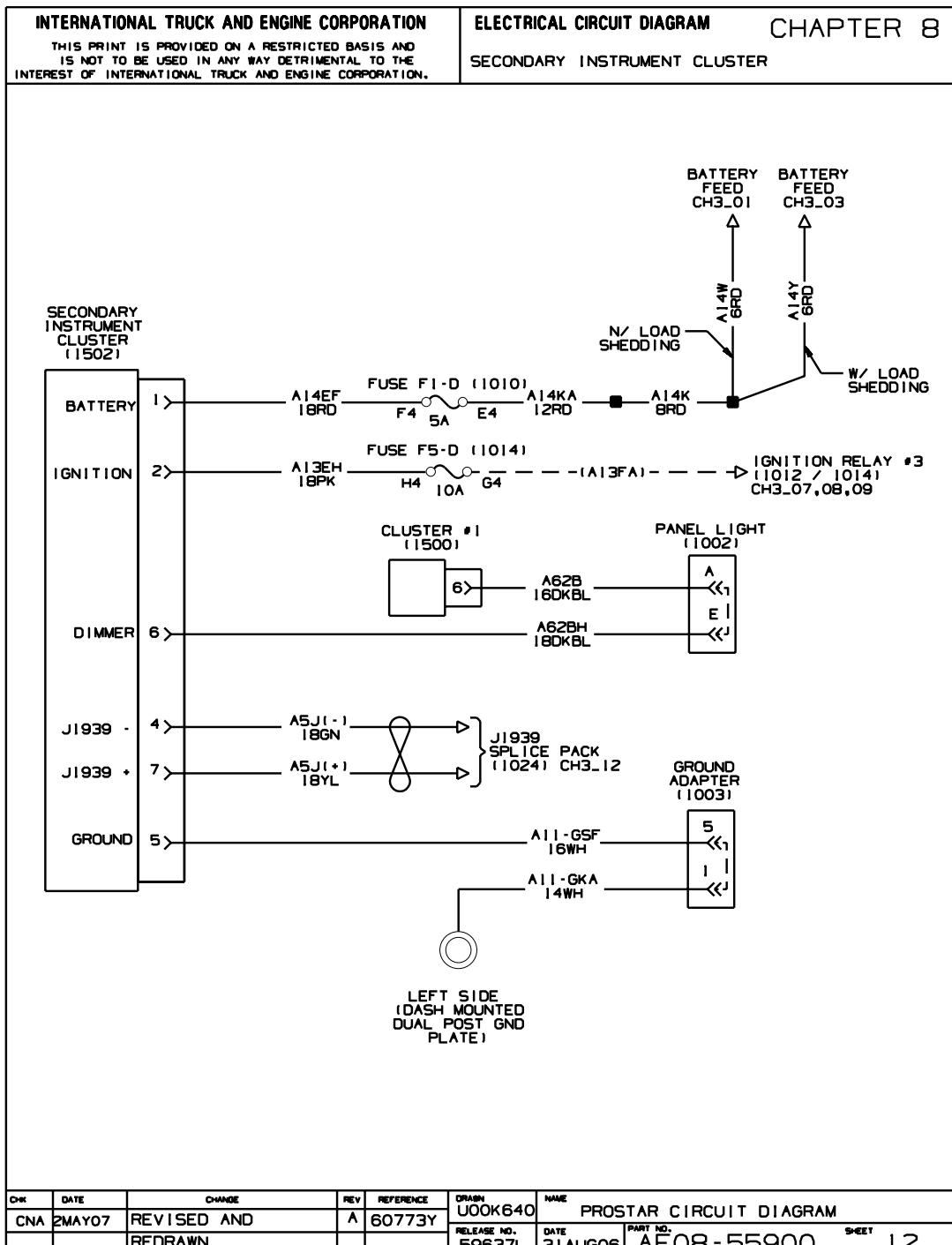


Figure 118 Secondary Instrument Cluster

8.13. PARKING WARNING LIGHT, P. 13

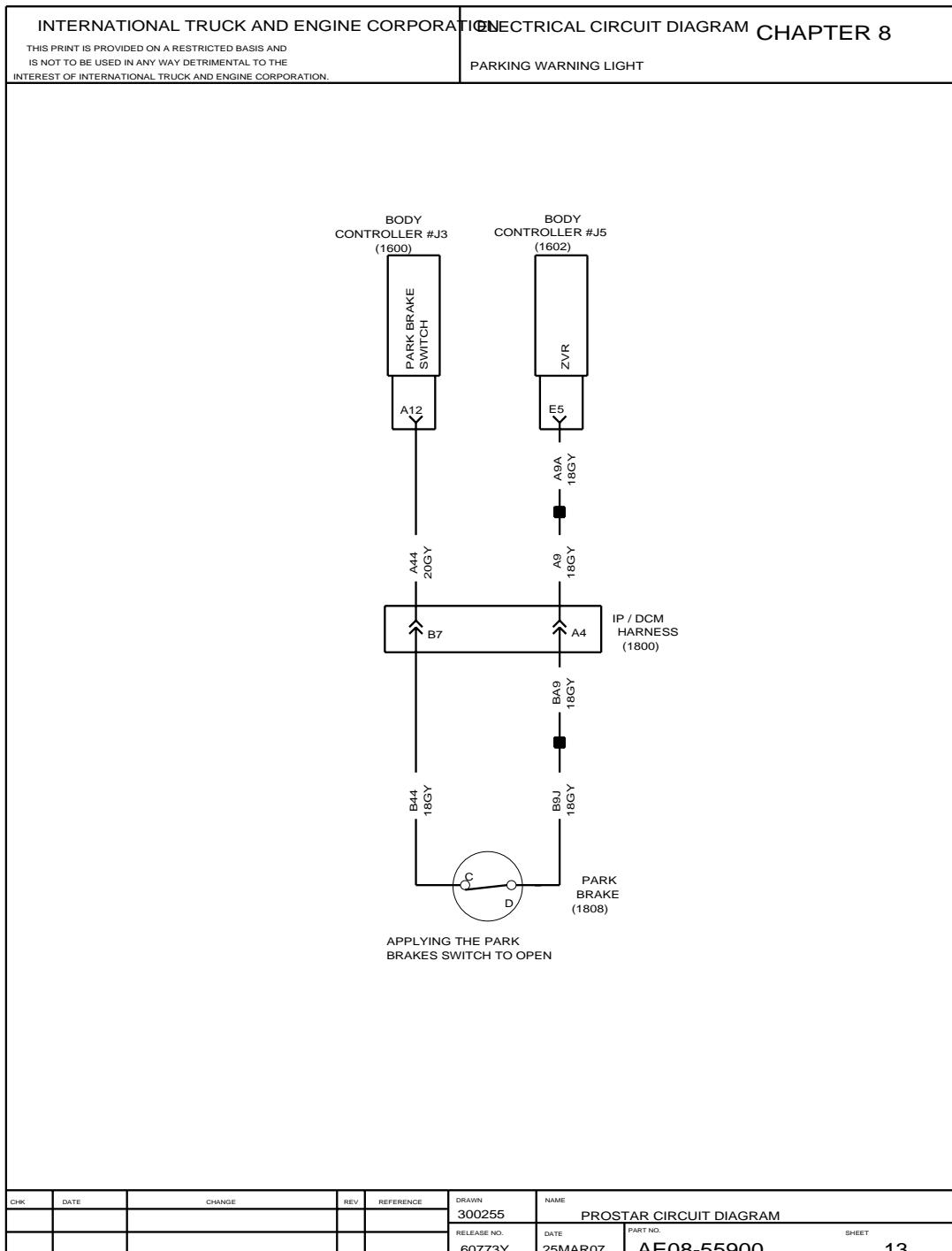


Figure 119 Parking Warning Light

8.14. WARNING LIGHTS, P. 14

INTERNATIONAL TRUCK AND ENGINE CORPORATION THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DEDIMENTAL TO THE INTEREST OF INTERNATIONAL TRUCK AND ENGINE CORPORATION.		ELECTRICAL CIRCUIT DIAGRAM CHAPTER 8 WARNING LIGHTS																																																																																																																																				
IP WARNING LIGHTS																																																																																																																																						
<table border="1"> <thead> <tr> <th>WARNING LIGHT</th><th>REPRESENTATION</th><th>COLOR</th><th>SIGNAL PATH</th><th></th></tr> </thead> <tbody> <tr><td>RANGE INHIBITED</td><td>RANGE INHIBITED</td><td>YELLOW</td><td>TCM / J1939 / CLUSTER</td><td></td></tr> <tr><td>PROTECT</td><td>[ICON]</td><td>YELLOW</td><td>SAE DIAGNOSTIC LAMP</td><td></td></tr> <tr><td>RETARD OVER HEAT</td><td>RETARD OVERHEAT</td><td>YELLOW</td><td>STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER</td><td></td></tr> <tr><td>AMBER WARN (AWL)</td><td>[YIELD ICON]</td><td>YELLOW</td><td>STATUS TRANSMITTED IN J1939 MESSAGE FROM ANY MODULE SAE DIAGNOSTIC LAMP</td><td></td></tr> <tr><td>RED STOP (RSL)</td><td>[STOP ICON]</td><td>RED</td><td>STATUS TRANSMITTED IN J1939 MESSAGE FROM ANY MODULE SAE DIAGNOSTIC LAMP</td><td></td></tr> <tr><td>BRAKE PRESSURE</td><td>BRAKE PRESSURE [BRAKE ICON]</td><td>RED</td><td>STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER</td><td></td></tr> <tr><td>PARK BRAKE</td><td>PARK [ICON]</td><td>RED</td><td>STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER</td><td></td></tr> <tr><td>EMERGENCY EXIT</td><td>EMERG EXIT</td><td>RED</td><td>STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER</td><td></td></tr> <tr><td>LIFT DOOR</td><td>LIFT DOOR</td><td>YELLOW</td><td>STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER</td><td></td></tr> <tr><td>TRAILER ABS</td><td>ABS [TRAILER ICON]</td><td>YELLOW</td><td>STATUS TRANSMITTED IN J1939 MESSAGE FROM ABS</td><td></td></tr> <tr><td>WAIT TO START</td><td>WAIT TO START</td><td>YELLOW</td><td>STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER</td><td></td></tr> <tr><td>TRACTION CONTROL</td><td>TRAC CTRL</td><td>YELLOW</td><td>STATUS TRANSMITTED IN J1939 MESSAGE FROM ABS</td><td></td></tr> <tr><td>IDLE SHUTDOWN</td><td>IDLE SHUTDOWN</td><td>YELLOW</td><td>STATUS TRANSMITTED IN J1939 MESSAGE FROM ECM</td><td></td></tr> <tr><td>MALFUNCTION (MIL)</td><td>[ICON]</td><td>YELLOW</td><td>SAE DIAGNOSTIC LAMP</td><td></td></tr> <tr><td>PTO ENGAGED INDICATOR</td><td>PTO</td><td>YELLOW</td><td>STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER</td><td></td></tr> <tr><td>SERVICE PARK</td><td>SERVICE [ICON]</td><td>RED</td><td>STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER</td><td></td></tr> <tr><td>SEAT BELT</td><td>FASTEN BELTS</td><td>RED</td><td>STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER</td><td></td></tr> <tr><td>BRAKE FLUID</td><td>BRAKE FLUID [ICON]</td><td>RED</td><td>BODY CONT / J1939 / CLUSTER</td><td></td></tr> <tr><td>RED FLASHER</td><td>RED FLASHER</td><td>RED</td><td>STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER</td><td></td></tr> <tr><td>AMBER FLASHER</td><td>AMBER FLASHER</td><td>YELLOW</td><td>STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER</td><td></td></tr> <tr><td>ANTILOCK BRAKING SYSTEM</td><td>[ABS ICON]</td><td>YELLOW</td><td>STATUS TRANSMITTED IN J1939 MESSAGE FROM ABS</td><td></td></tr> <tr><td>ECONOMY MODE</td><td>ECON</td><td>YELLOW</td><td>STATUS TRANSMITTED IN J1939 MESSAGE FROM TCM</td><td></td></tr> <tr><td>LEFT TURN</td><td>[ARROW ICON]</td><td>GREEN</td><td>STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER</td><td></td></tr> <tr><td>HIGH BEAM</td><td>[ICON]</td><td>BLUE</td><td>STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER</td><td></td></tr> <tr><td>RIGHT TURN</td><td>[ARROW ICON]</td><td>GREEN</td><td>STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER</td><td></td></tr> </tbody> </table>					WARNING LIGHT	REPRESENTATION	COLOR	SIGNAL PATH		RANGE INHIBITED	RANGE INHIBITED	YELLOW	TCM / J1939 / CLUSTER		PROTECT	[ICON]	YELLOW	SAE DIAGNOSTIC LAMP		RETARD OVER HEAT	RETARD OVERHEAT	YELLOW	STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER		AMBER WARN (AWL)	[YIELD ICON]	YELLOW	STATUS TRANSMITTED IN J1939 MESSAGE FROM ANY MODULE SAE DIAGNOSTIC LAMP		RED STOP (RSL)	[STOP ICON]	RED	STATUS TRANSMITTED IN J1939 MESSAGE FROM ANY MODULE SAE DIAGNOSTIC LAMP		BRAKE PRESSURE	BRAKE PRESSURE [BRAKE ICON]	RED	STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER		PARK BRAKE	PARK [ICON]	RED	STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER		EMERGENCY EXIT	EMERG EXIT	RED	STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER		LIFT DOOR	LIFT DOOR	YELLOW	STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER		TRAILER ABS	ABS [TRAILER ICON]	YELLOW	STATUS TRANSMITTED IN J1939 MESSAGE FROM ABS		WAIT TO START	WAIT TO START	YELLOW	STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER		TRACTION CONTROL	TRAC CTRL	YELLOW	STATUS TRANSMITTED IN J1939 MESSAGE FROM ABS		IDLE SHUTDOWN	IDLE SHUTDOWN	YELLOW	STATUS TRANSMITTED IN J1939 MESSAGE FROM ECM		MALFUNCTION (MIL)	[ICON]	YELLOW	SAE DIAGNOSTIC LAMP		PTO ENGAGED INDICATOR	PTO	YELLOW	STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER		SERVICE PARK	SERVICE [ICON]	RED	STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER		SEAT BELT	FASTEN BELTS	RED	STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER		BRAKE FLUID	BRAKE FLUID [ICON]	RED	BODY CONT / J1939 / CLUSTER		RED FLASHER	RED FLASHER	RED	STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER		AMBER FLASHER	AMBER FLASHER	YELLOW	STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER		ANTILOCK BRAKING SYSTEM	[ABS ICON]	YELLOW	STATUS TRANSMITTED IN J1939 MESSAGE FROM ABS		ECONOMY MODE	ECON	YELLOW	STATUS TRANSMITTED IN J1939 MESSAGE FROM TCM		LEFT TURN	[ARROW ICON]	GREEN	STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER		HIGH BEAM	[ICON]	BLUE	STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER		RIGHT TURN	[ARROW ICON]	GREEN	STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER	
WARNING LIGHT	REPRESENTATION	COLOR	SIGNAL PATH																																																																																																																																			
RANGE INHIBITED	RANGE INHIBITED	YELLOW	TCM / J1939 / CLUSTER																																																																																																																																			
PROTECT	[ICON]	YELLOW	SAE DIAGNOSTIC LAMP																																																																																																																																			
RETARD OVER HEAT	RETARD OVERHEAT	YELLOW	STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER																																																																																																																																			
AMBER WARN (AWL)	[YIELD ICON]	YELLOW	STATUS TRANSMITTED IN J1939 MESSAGE FROM ANY MODULE SAE DIAGNOSTIC LAMP																																																																																																																																			
RED STOP (RSL)	[STOP ICON]	RED	STATUS TRANSMITTED IN J1939 MESSAGE FROM ANY MODULE SAE DIAGNOSTIC LAMP																																																																																																																																			
BRAKE PRESSURE	BRAKE PRESSURE [BRAKE ICON]	RED	STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER																																																																																																																																			
PARK BRAKE	PARK [ICON]	RED	STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER																																																																																																																																			
EMERGENCY EXIT	EMERG EXIT	RED	STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER																																																																																																																																			
LIFT DOOR	LIFT DOOR	YELLOW	STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER																																																																																																																																			
TRAILER ABS	ABS [TRAILER ICON]	YELLOW	STATUS TRANSMITTED IN J1939 MESSAGE FROM ABS																																																																																																																																			
WAIT TO START	WAIT TO START	YELLOW	STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER																																																																																																																																			
TRACTION CONTROL	TRAC CTRL	YELLOW	STATUS TRANSMITTED IN J1939 MESSAGE FROM ABS																																																																																																																																			
IDLE SHUTDOWN	IDLE SHUTDOWN	YELLOW	STATUS TRANSMITTED IN J1939 MESSAGE FROM ECM																																																																																																																																			
MALFUNCTION (MIL)	[ICON]	YELLOW	SAE DIAGNOSTIC LAMP																																																																																																																																			
PTO ENGAGED INDICATOR	PTO	YELLOW	STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER																																																																																																																																			
SERVICE PARK	SERVICE [ICON]	RED	STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER																																																																																																																																			
SEAT BELT	FASTEN BELTS	RED	STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER																																																																																																																																			
BRAKE FLUID	BRAKE FLUID [ICON]	RED	BODY CONT / J1939 / CLUSTER																																																																																																																																			
RED FLASHER	RED FLASHER	RED	STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER																																																																																																																																			
AMBER FLASHER	AMBER FLASHER	YELLOW	STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER																																																																																																																																			
ANTILOCK BRAKING SYSTEM	[ABS ICON]	YELLOW	STATUS TRANSMITTED IN J1939 MESSAGE FROM ABS																																																																																																																																			
ECONOMY MODE	ECON	YELLOW	STATUS TRANSMITTED IN J1939 MESSAGE FROM TCM																																																																																																																																			
LEFT TURN	[ARROW ICON]	GREEN	STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER																																																																																																																																			
HIGH BEAM	[ICON]	BLUE	STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER																																																																																																																																			
RIGHT TURN	[ARROW ICON]	GREEN	STATUS TRANSMITTED IN J1939 PROPRIETARY MESSAGE FROM BODY CONTROLLER																																																																																																																																			
<table border="1"> <thead> <tr> <th>CHK</th><th>DATE</th><th>CHANGE</th><th>REV</th><th>REFERENCE</th><th>DRAWN</th><th>NAME</th><th></th></tr> </thead> <tbody> <tr> <td>RAW6</td><td>16NOV07</td><td>CHANGED PTO</td><td>A</td><td>50297W</td><td>U00K640</td><td>CIRCUIT DIAGRAM, PROSTAR</td><td></td></tr> <tr> <td></td><td></td><td></td><td></td><td></td><td>RELEASE NO.</td><td>DATE</td><td>PART NO.</td></tr> <tr> <td></td><td></td><td></td><td></td><td></td><td>60773Y</td><td>30APR06</td><td>AE08055900</td></tr> <tr> <td></td><td></td><td>DESCRIPTION</td><td></td><td></td><td></td><td></td><td>SHEET</td></tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>014</td></tr> </tbody> </table>					CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME		RAW6	16NOV07	CHANGED PTO	A	50297W	U00K640	CIRCUIT DIAGRAM, PROSTAR							RELEASE NO.	DATE	PART NO.						60773Y	30APR06	AE08055900			DESCRIPTION					SHEET								014																																																																																		
CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME																																																																																																																																
RAW6	16NOV07	CHANGED PTO	A	50297W	U00K640	CIRCUIT DIAGRAM, PROSTAR																																																																																																																																
					RELEASE NO.	DATE	PART NO.																																																																																																																															
					60773Y	30APR06	AE08055900																																																																																																																															
		DESCRIPTION					SHEET																																																																																																																															
							014																																																																																																																															

Figure 120 Warning Lights

8.15. IP TEXT MESSAGES AND WARNING LIGHTS — CONTROLLED BY ENGINE, TRANSMISSION AND ABS CONTROLLER, P. 15

<small>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.</small>	ELECTRICAL CIRCUIT DIAGRAM CHAPTER 8 <small>IP TEXT MESSAGES & WARNING LIGHTS - CONTROLLED BY ENGINE , TRANSMISSION AND ABS CONTROLLER</small>																
IP TEXT MESSAGES :																	
LOAD SHEDDING																	
WASHER FLUID LOW																	
ELECTRICAL FAULT																	
CHECK A / C																	
AIR FILTER RESTRICTION																	
EXTERIOR LAMP CHECK ACTIVE																	
HVAC TEMP SETTING																	
ACTIVATE HVAC FRONT BLOWER																	
HVAC SLEEPER BLOWER SPEED																	
AIR PRESSURE DIAGNOSTIC																	
CRUISE																	
FUEL FILTER																	
THE FOLLOWING WARNING LIGHTS ARE CONTROLLED BY THE ENGINE, TRANSMISSION, OR ABS CONTROLLER OVER THE DATA BUS AND DO NOT HAVE INDEPENDENT CIRCUITRY THAT CAN BE OR NEEDS TO BE SHOWN:																	
RANGE INHIBITED																	
ECONOMY MODE																	
TRAC CTRL																	
TRAILER ABS																	
ABS																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CHK</th> <th>DATE</th> <th>CHANGE</th> <th>REV</th> <th>REFERENCE</th> <th>DRAWN U00K640</th> <th>NAME PROSTAR CIRCUIT DIAGRAM</th> <th>SHEET 15</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>RELEASE NO. 60773Y</td> <td>DATE 30APR06</td> <td>PART NO. AF08-55900</td> </tr> </tbody> </table>		CHK	DATE	CHANGE	REV	REFERENCE	DRAWN U00K640	NAME PROSTAR CIRCUIT DIAGRAM	SHEET 15						RELEASE NO. 60773Y	DATE 30APR06	PART NO. AF08-55900
CHK	DATE	CHANGE	REV	REFERENCE	DRAWN U00K640	NAME PROSTAR CIRCUIT DIAGRAM	SHEET 15										
					RELEASE NO. 60773Y	DATE 30APR06	PART NO. AF08-55900										

Figure 121 IP Text Messages and Warning Lights — Controlled by Engine, Transmission and ABS Controller

9. LIGHTING SYSTEM (CHAPTER 9)

9.1. LIGHTS — STOP, TAIL, TURN AND BACK-UP N/FREEDOMLINE, P. 1

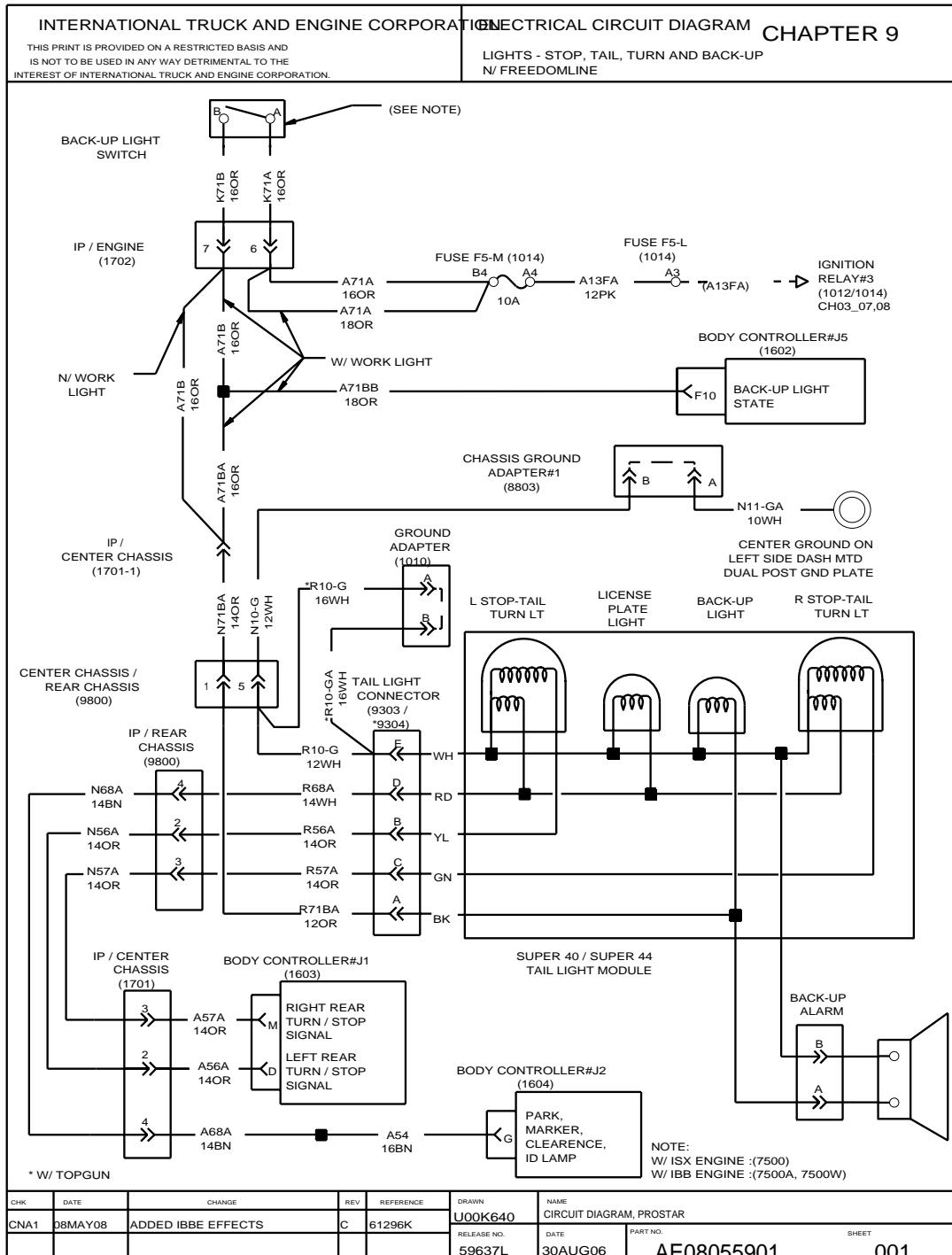


Figure 122 Lights — Stop, Tail, Turn and Back-Up N/Freedomline

9.2. LIGHTS — STOP, TAIL, TURN AND BACK-UP W/FREEDOMLINE, P. 2

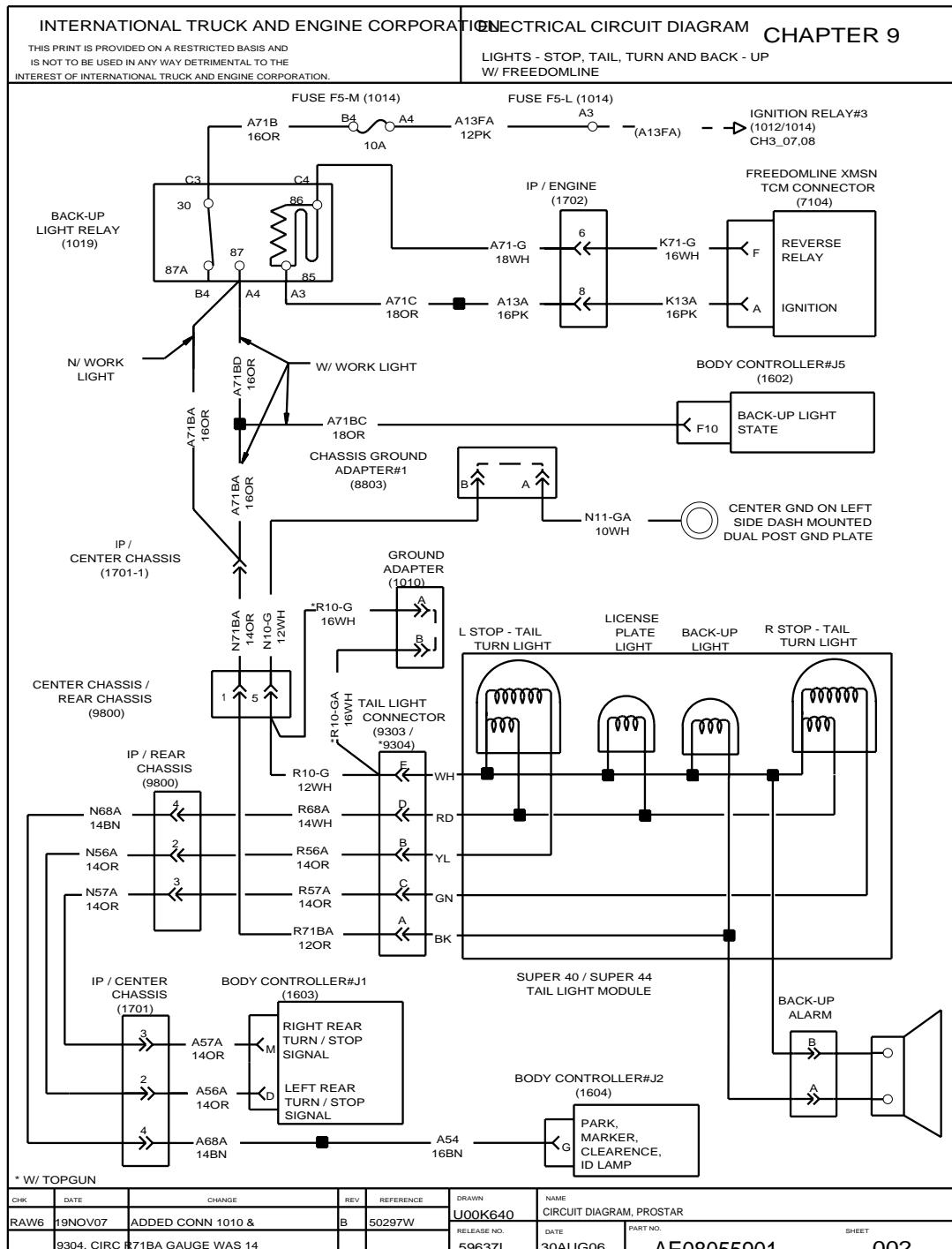


Figure 123 Lights — Stop, Tail, Turn and Back-Up W/Freedomline

9.3. DOME/MAP AND COURTESY LIGHTS — DAY CAB, P. 3

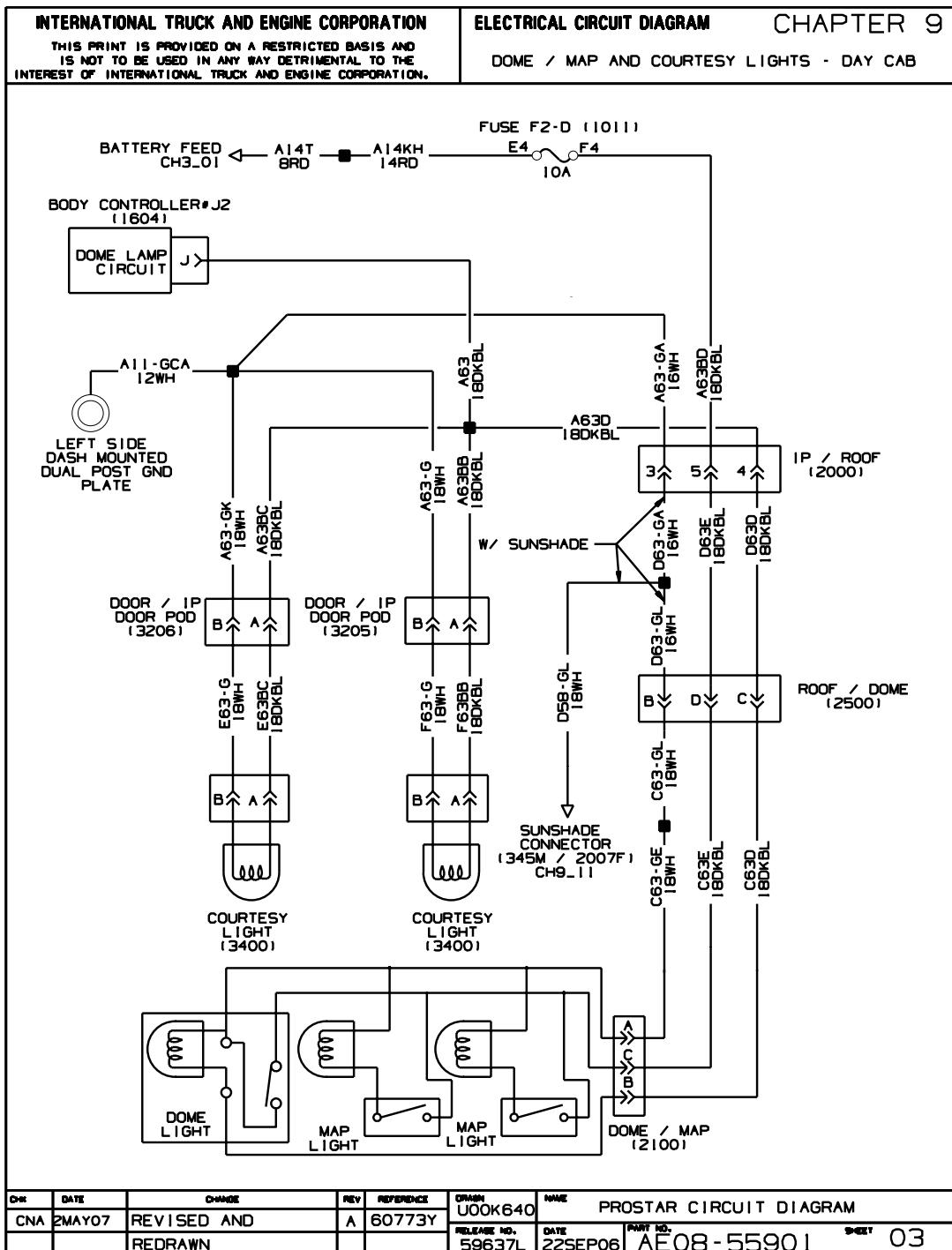


Figure 124 Dome/Map and Courtesy Lights — Day Cab

9.4. DOME/MAP AND COURTESY LIGHTS — SLEEPER, P. 4

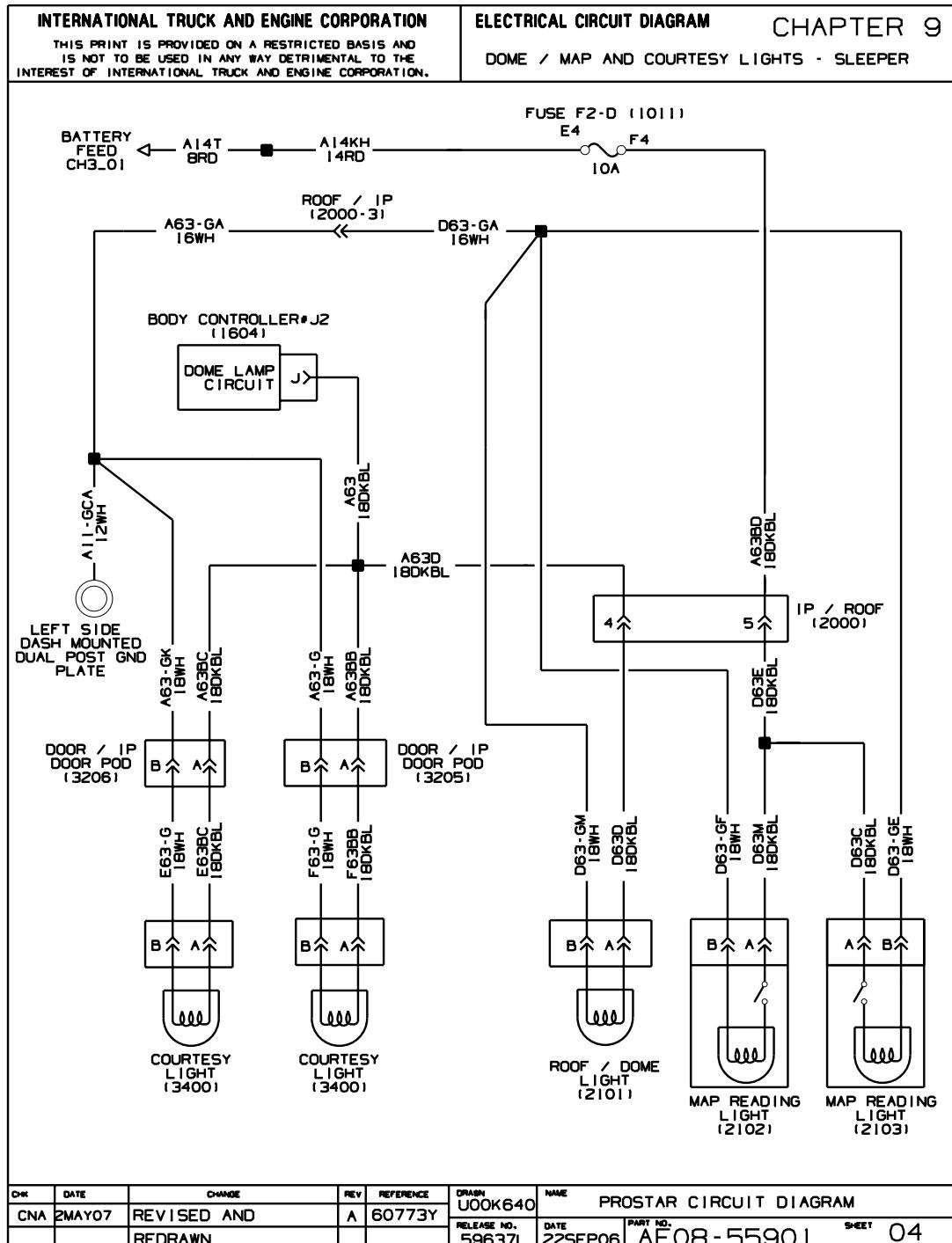


Figure 125 Dome/Map and Courtesy Lights — Sleeper

9.5. FOG LIGHTS AND SPOT LIGHT, P. 5

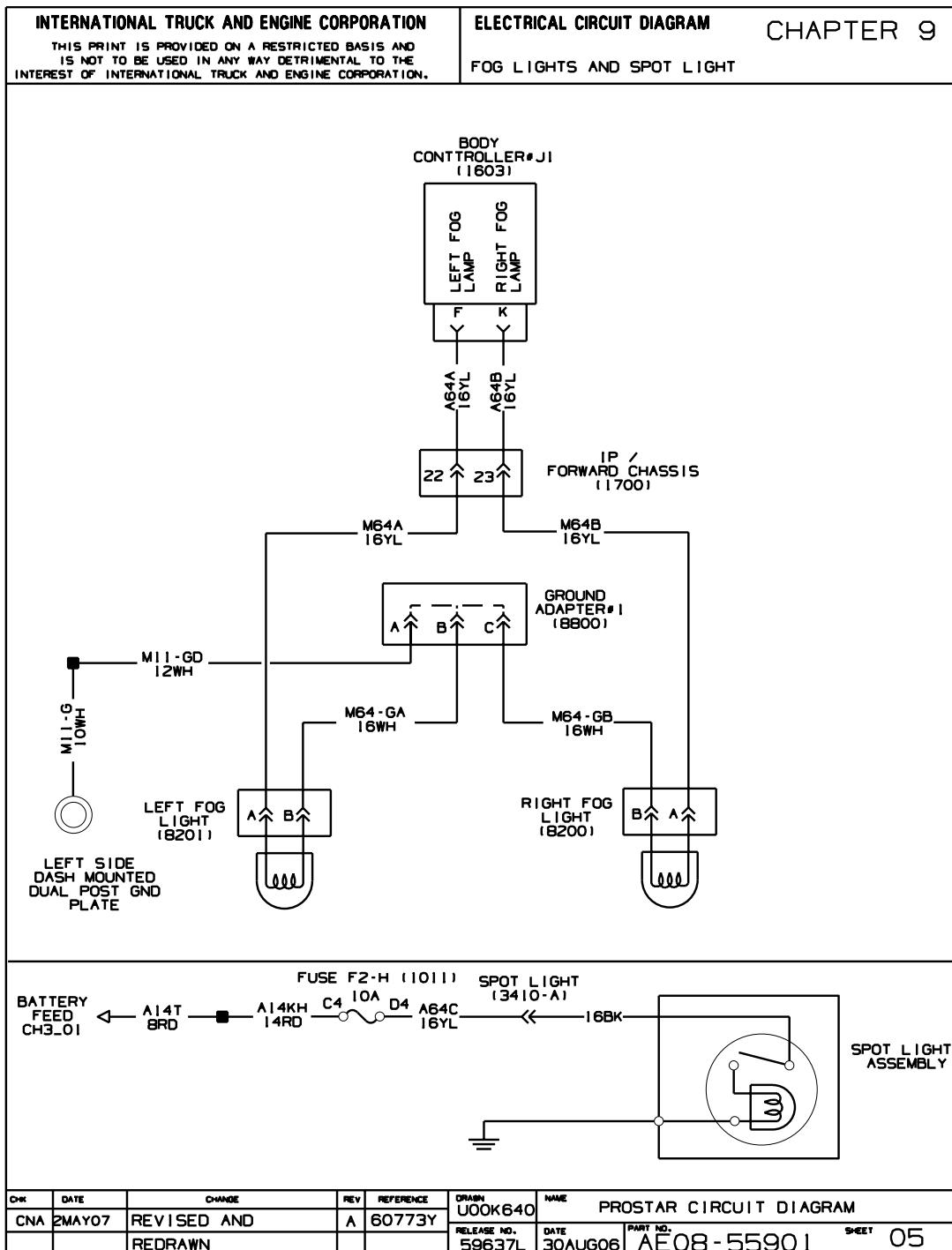


Figure 126 Fog Lights and Spot Light

9.6. HEADLIGHTS, P. 6

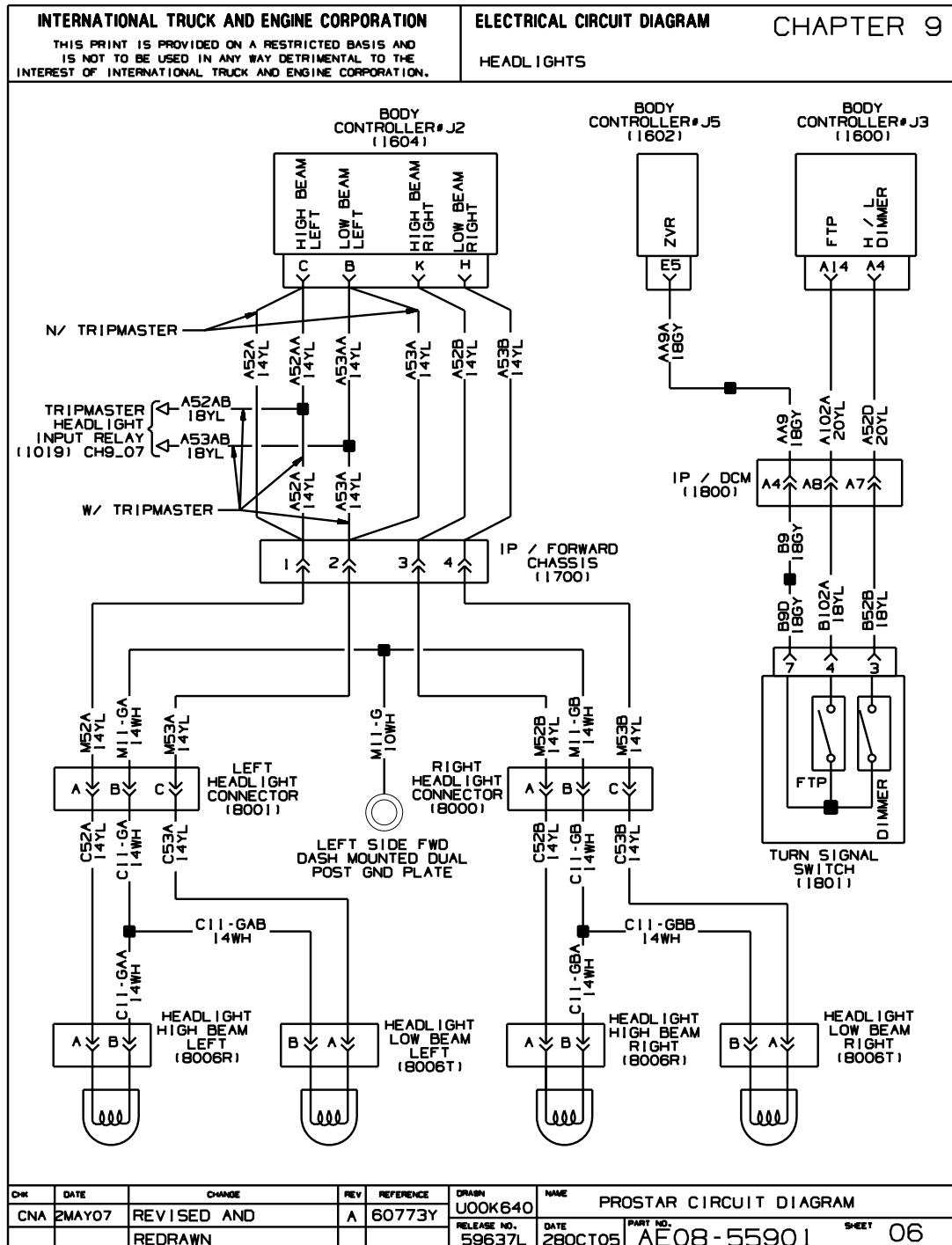


Figure 127 Headlights

9.7. TRIPMASTER, P. 7

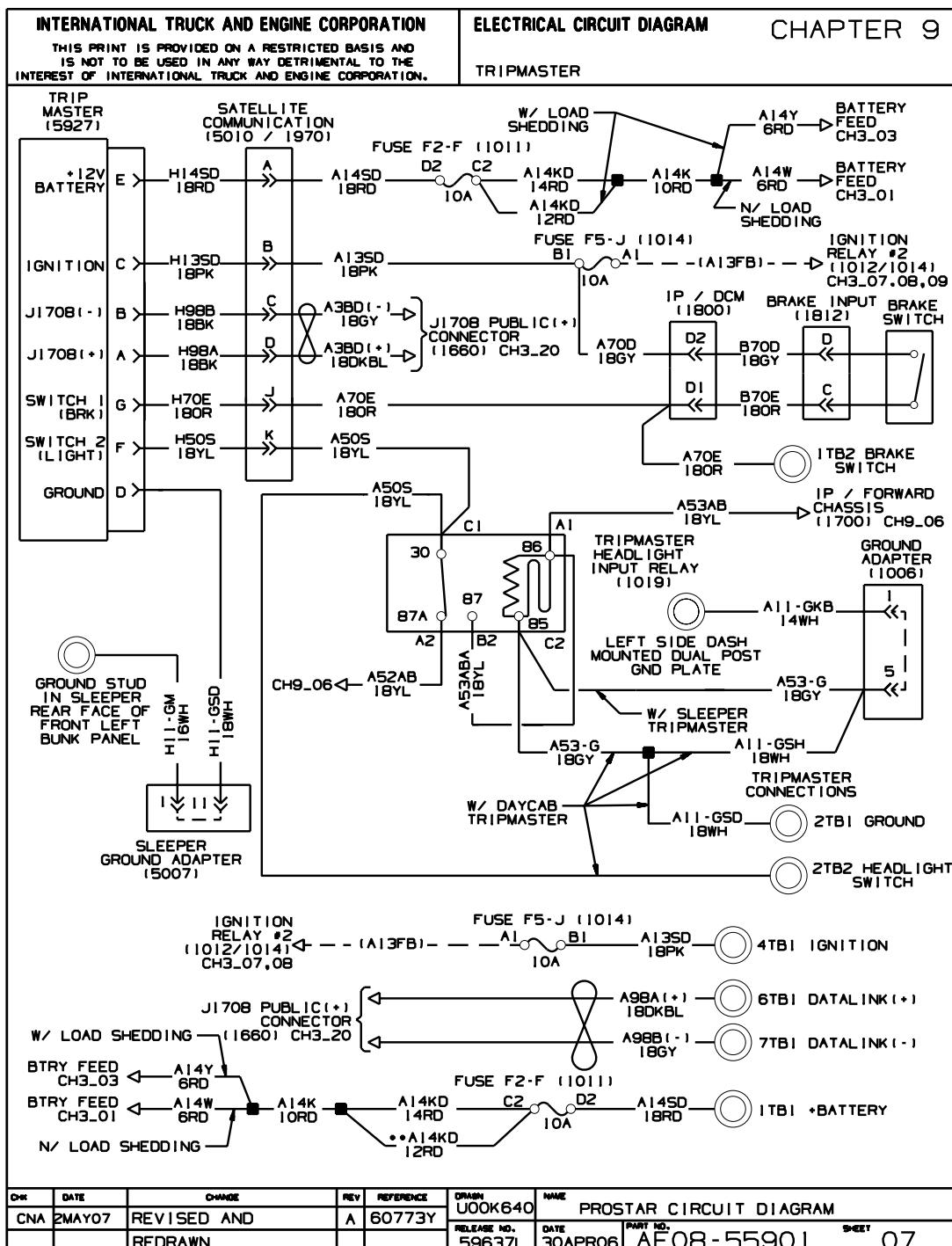


Figure 128 Tripmaster

9.8. TURN AND STOP SWITCH, P. 8

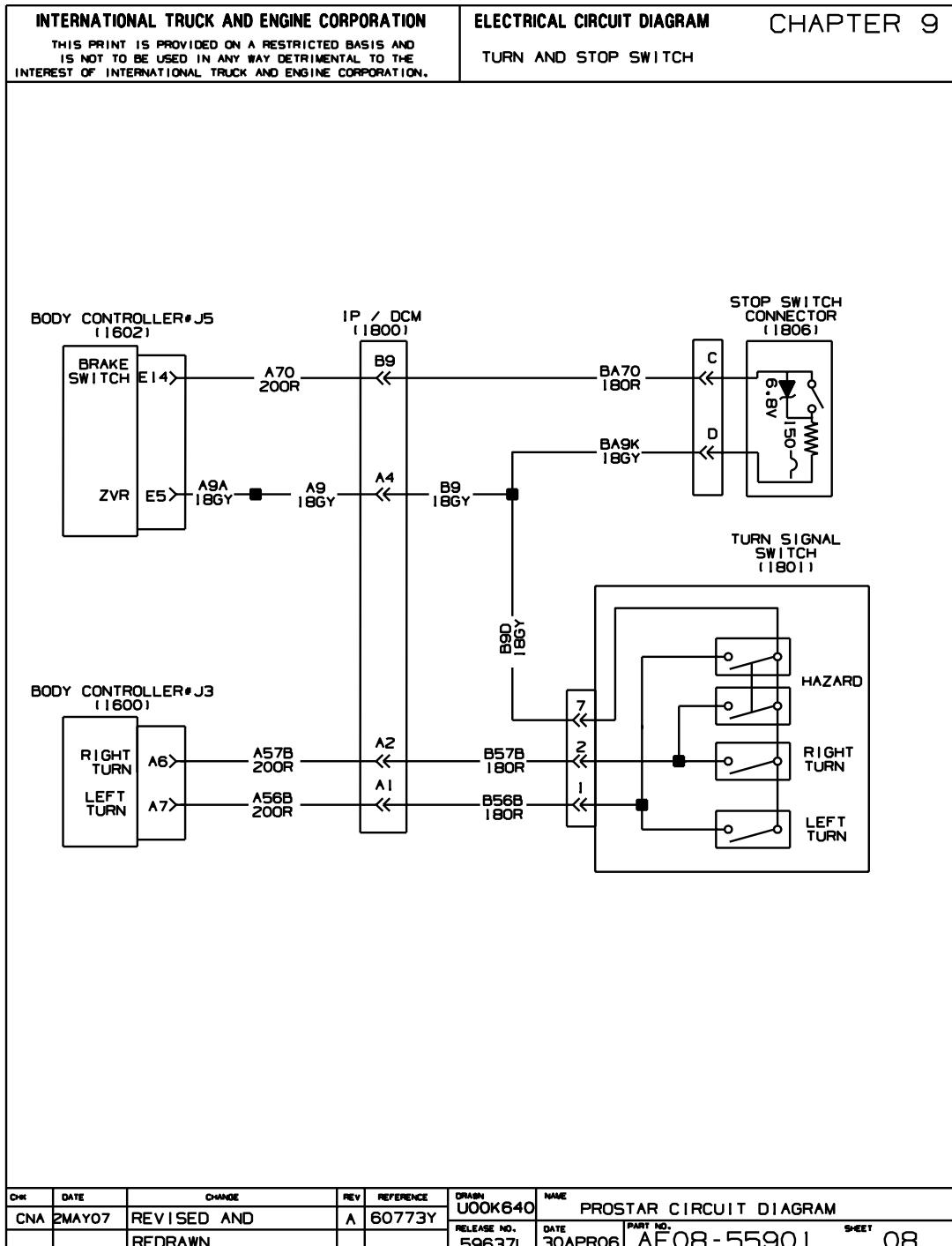


Figure 129 Turn and Stop Switch

9.9. LIGHT SYSTEM — PARK, MARKER, CLEARANCE, ID, TURN, STOP, TAIL, P. 9

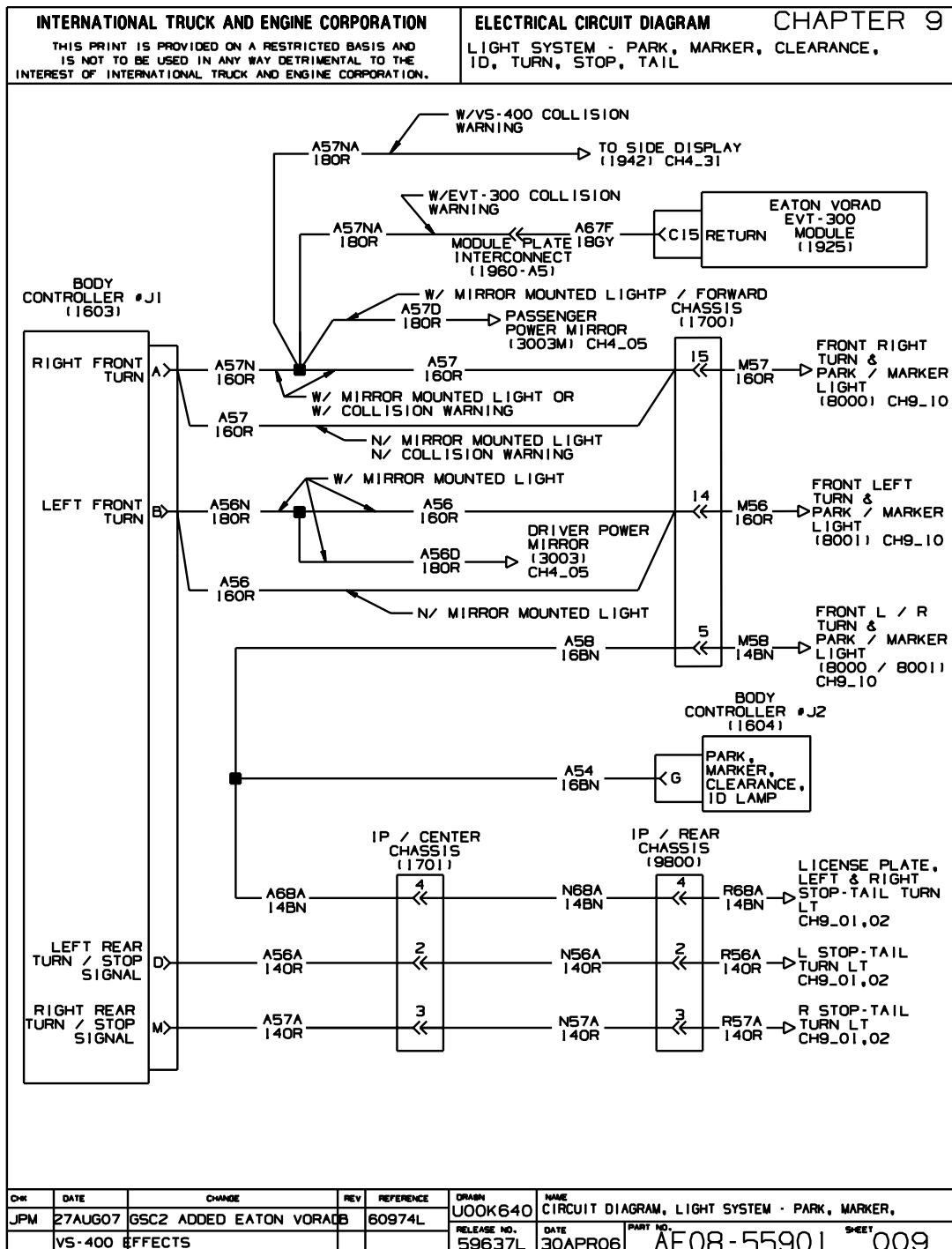


Figure 130 Light System — Park, Marker, Clearance, ID, Turn, Stop, Tail

9.10. LIGHT SYSTEM — PARK, MARKER, FRONT TURN AND MODESTY PANEL LIGHT, P. 10

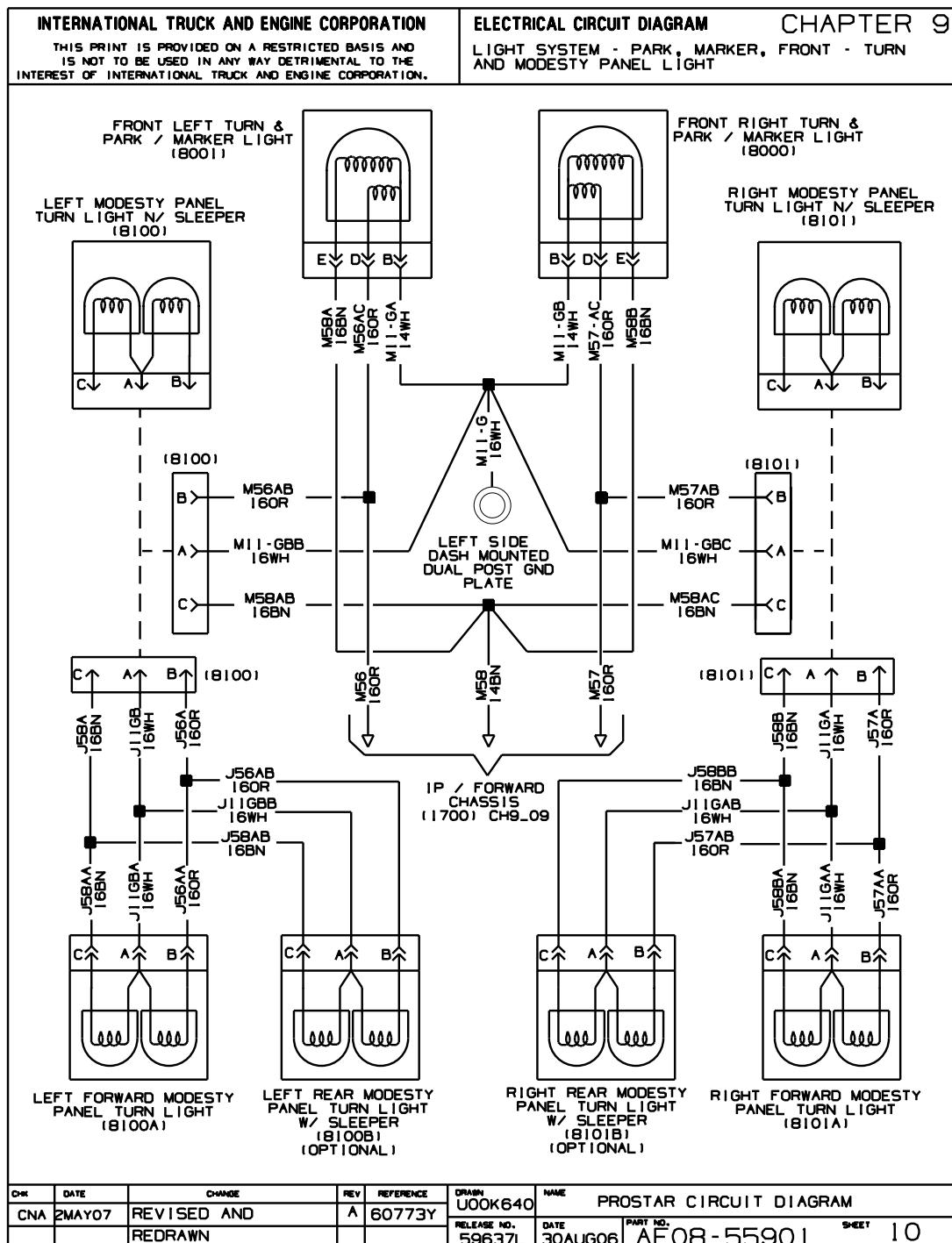


Figure 131 Light System — Park, Marker, Front Turn and Modesty Panel Light

9.11. LIGHT SYSTEM — CLEARANCE, ID, P. 11

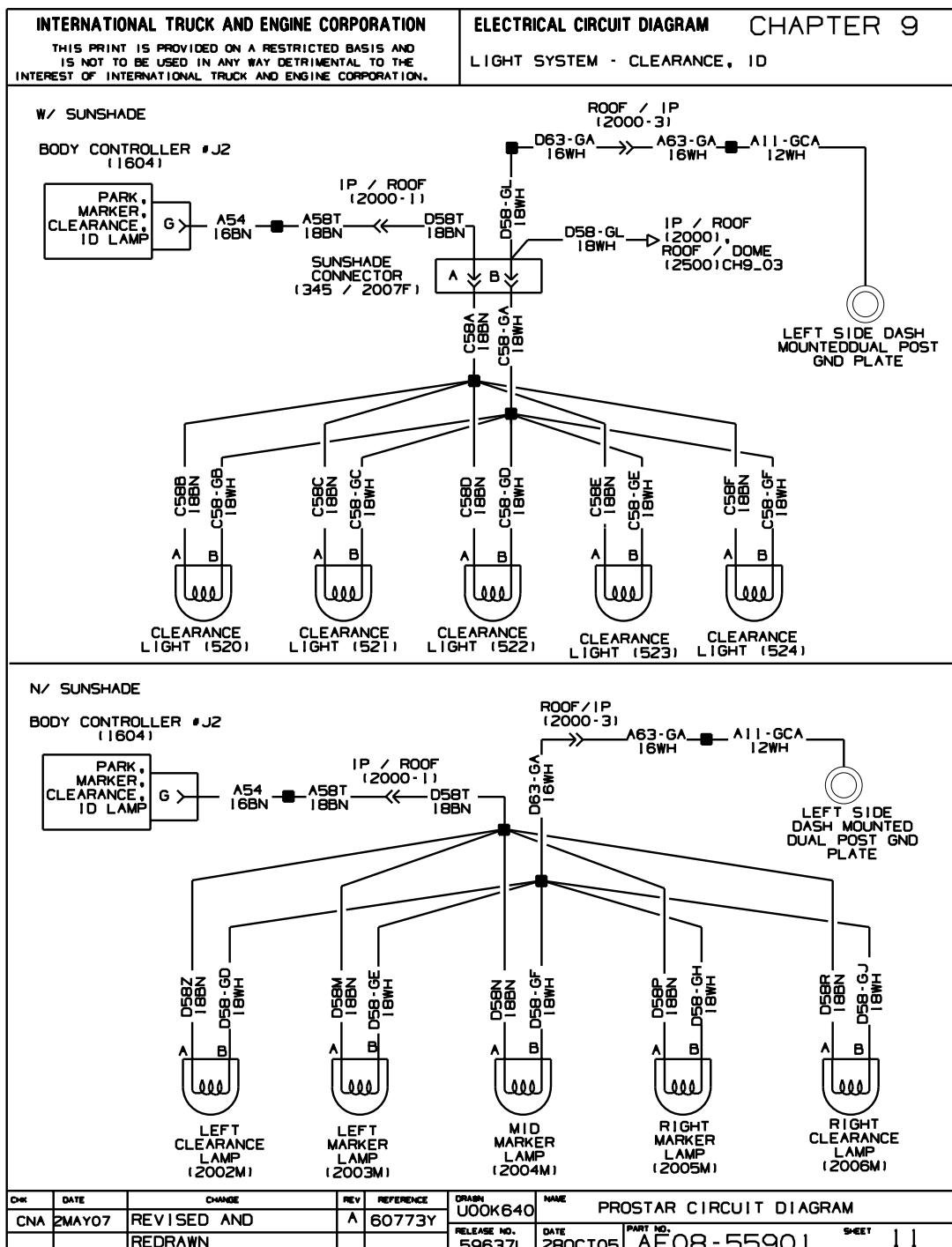


Figure 132 Light System — Clearance, ID

9.12. LIGHT SYSTEM — SKIRT LIGHT, P. 12

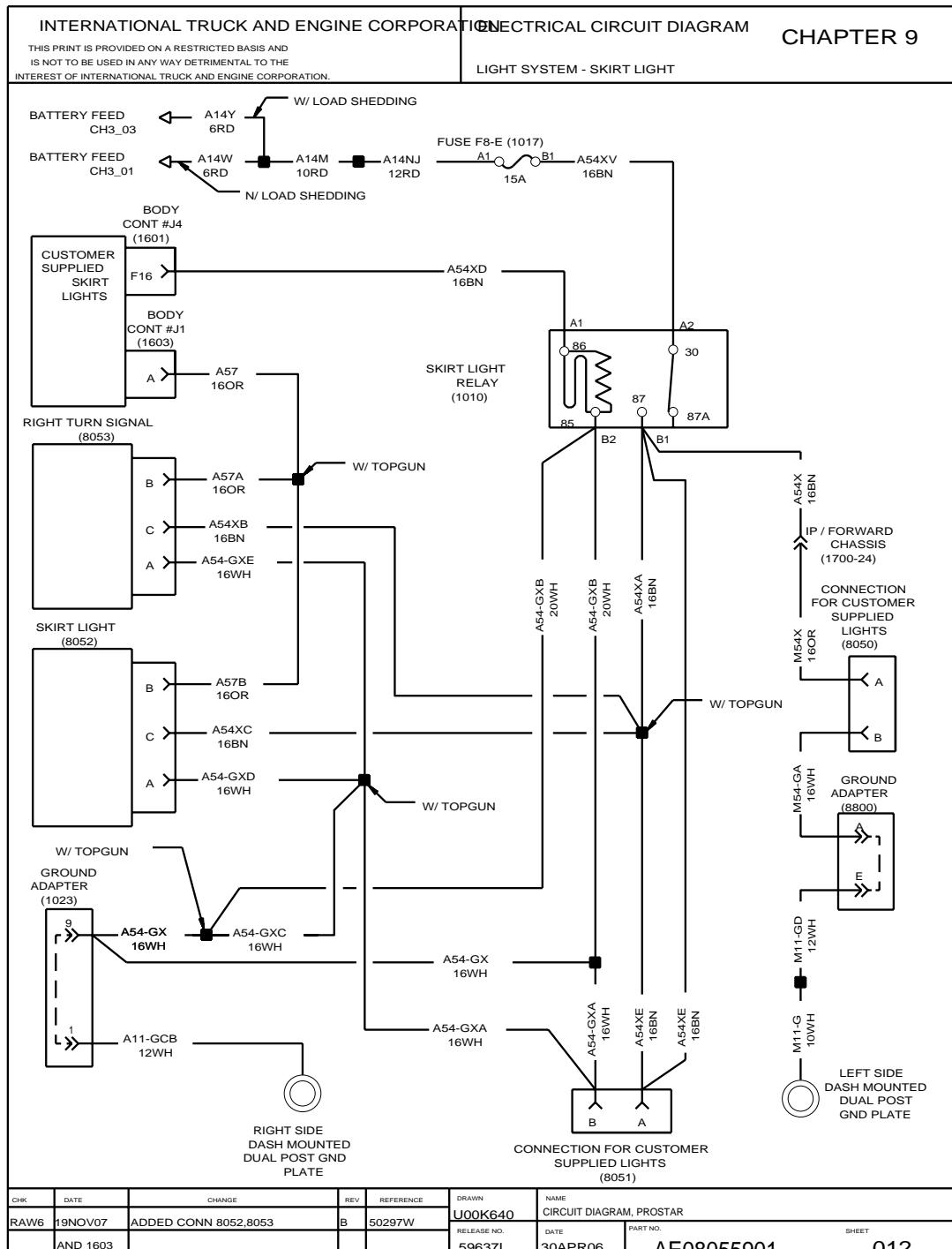


Figure 133 Light System — Skirt Light

9.13. TRAILER LIGHT SYSTEM — MARKER, STOP, TAIL, TURN, P. 13

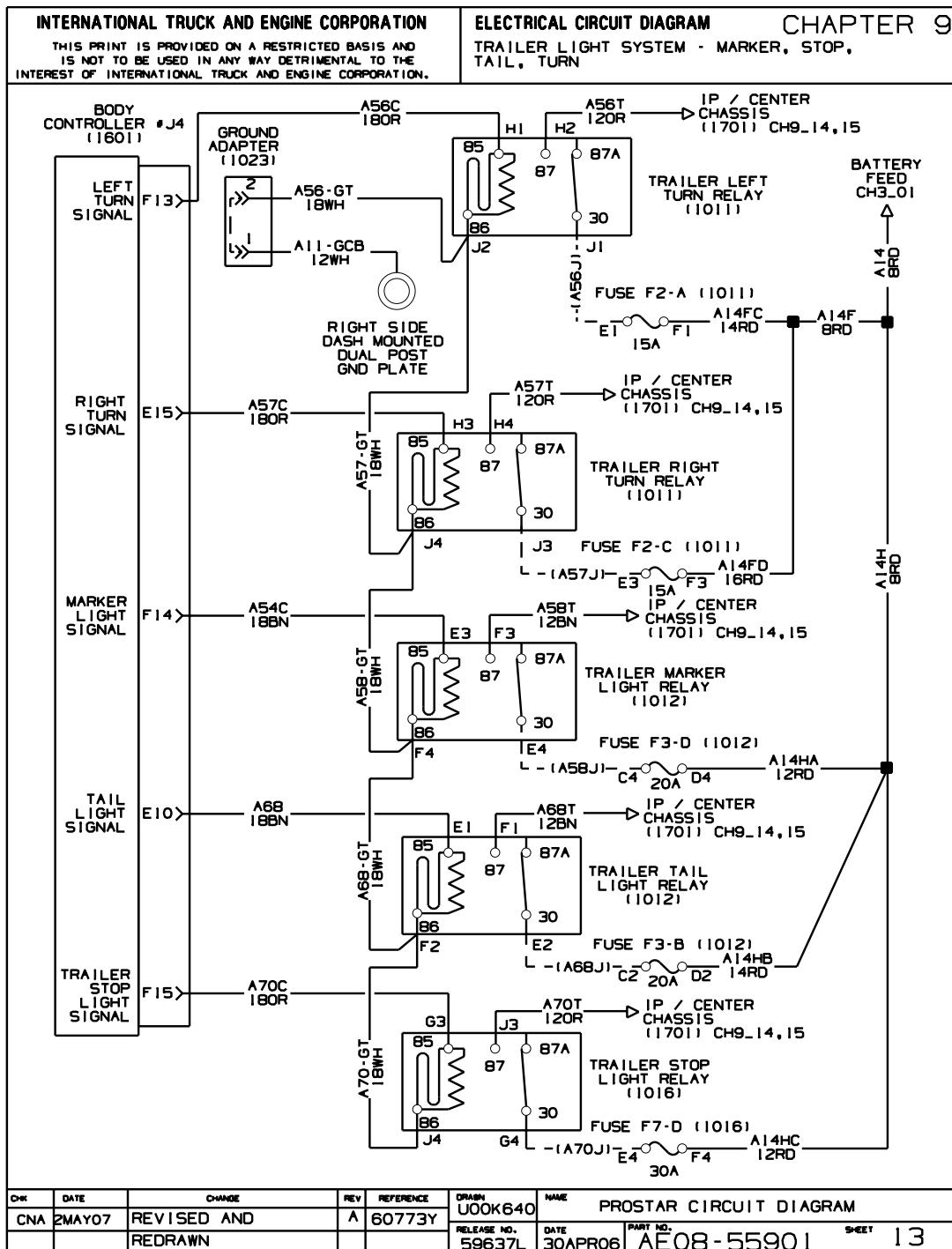


Figure 134 Trailer Light System — Marker, Stop, Tail, Turn

9.14. TRAILER SOCKET — BOC, P. 14

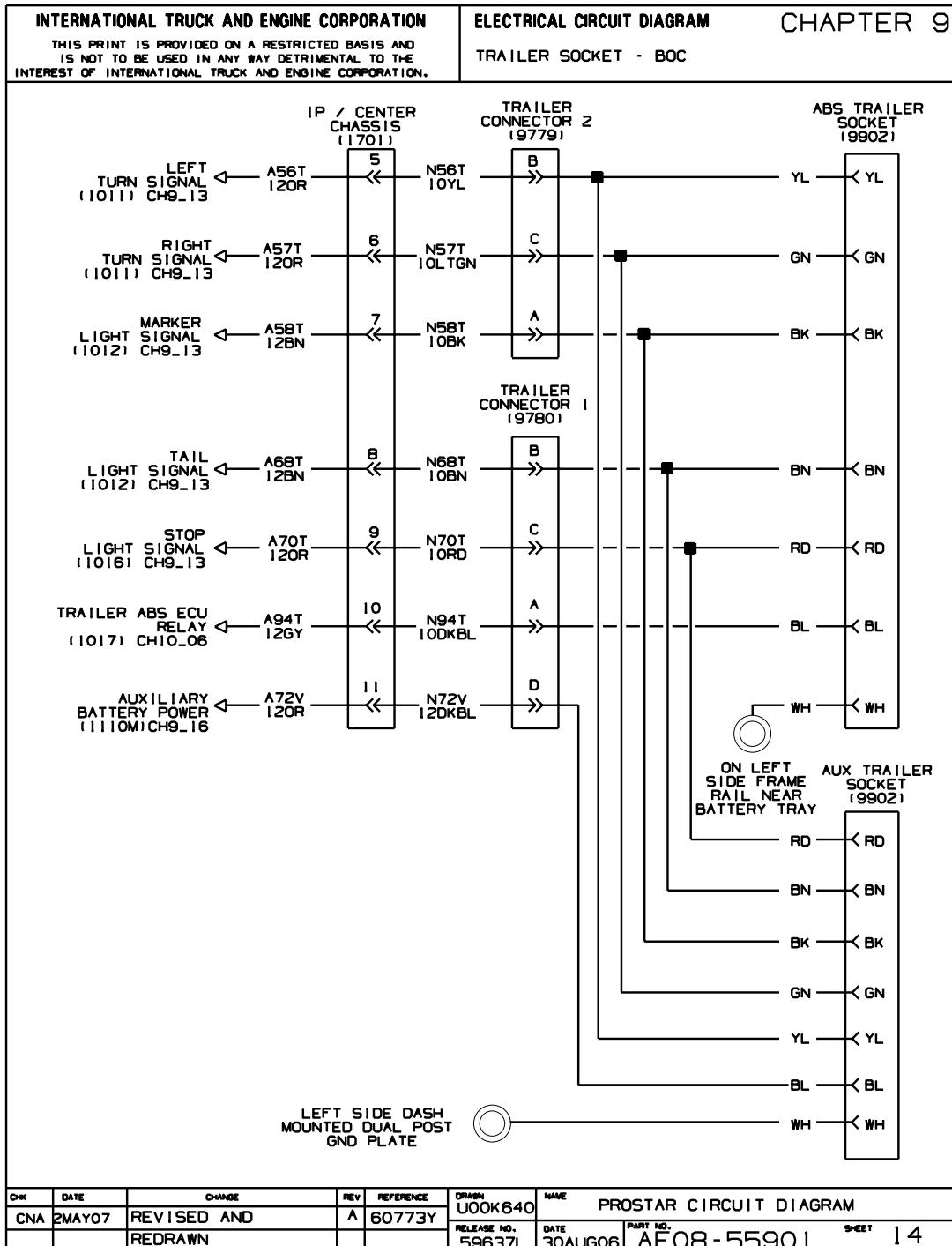


Figure 135 Trailer Socket — BOC

9.15. TRAILER SOCKET — BOC AND EOF, P. 15

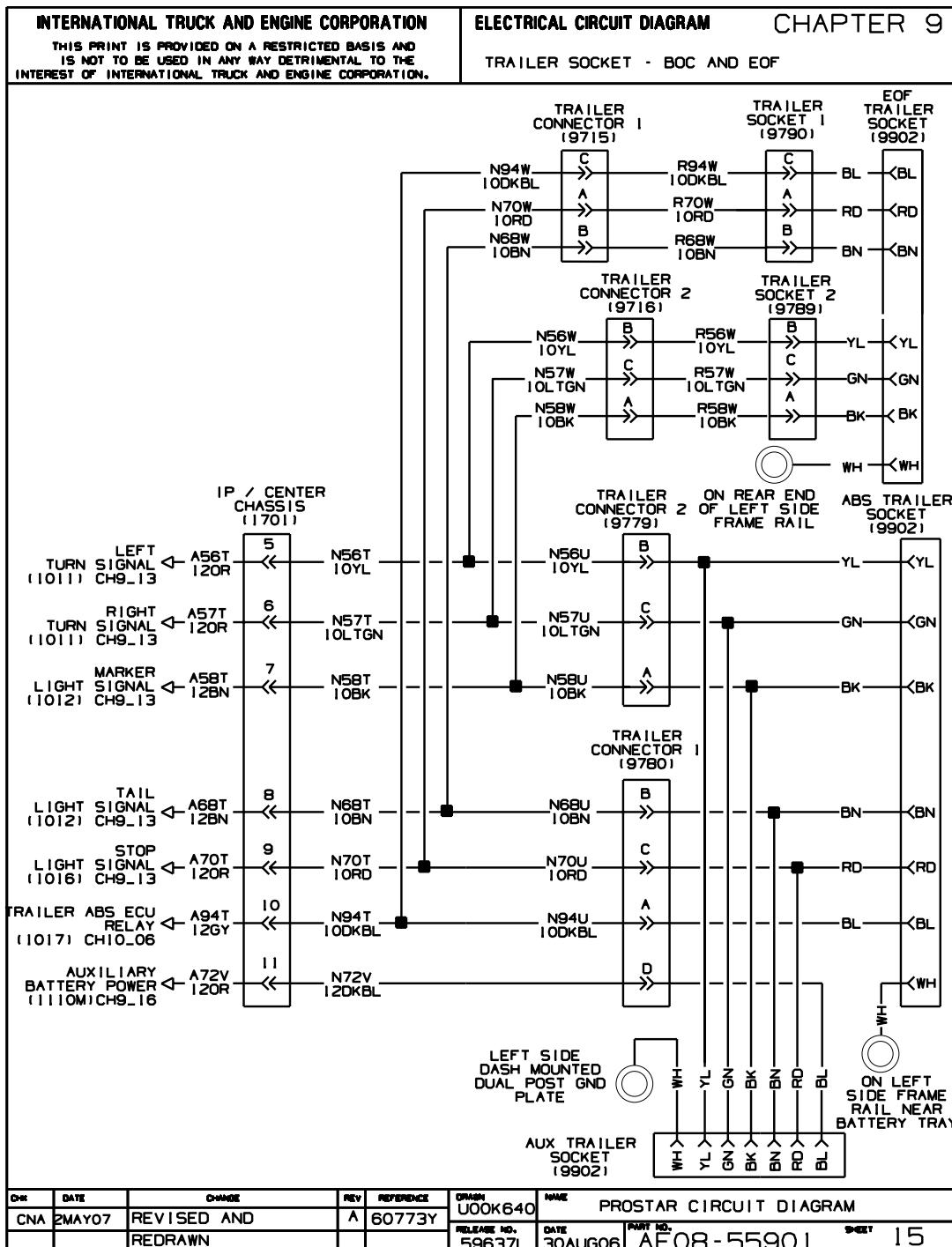


Figure 136 Trailer Socket — BOC and EOF

9.16. TRAILER SOCKET — AUXILIARY, P. 16

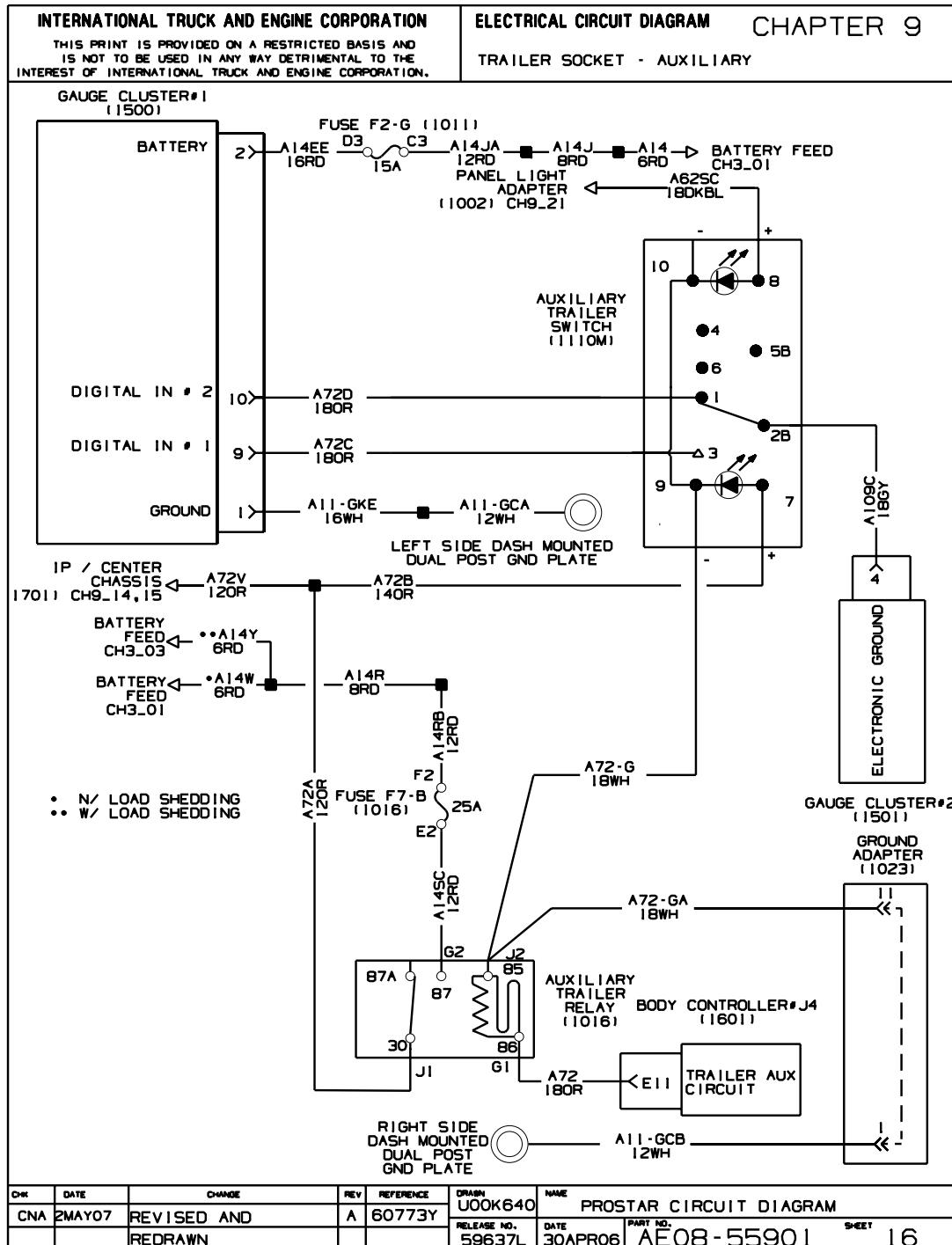
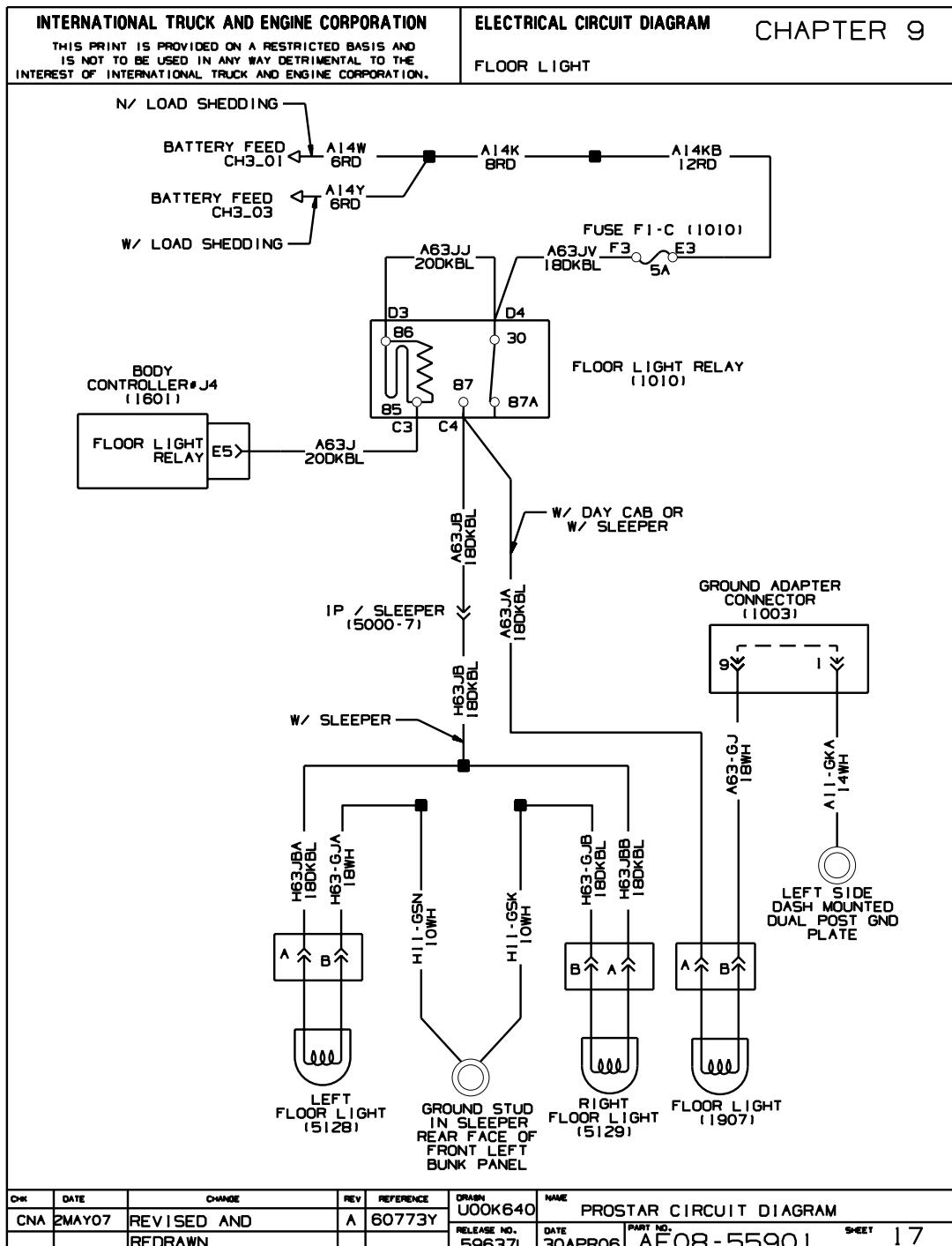


Figure 137 Trailer Socket — Auxiliary

9.17. FLOOR LIGHT, P. 17**Figure 138 Floor Light**

9.18. DOME AND ACCENT LIGHT — SLEEPER, P. 18

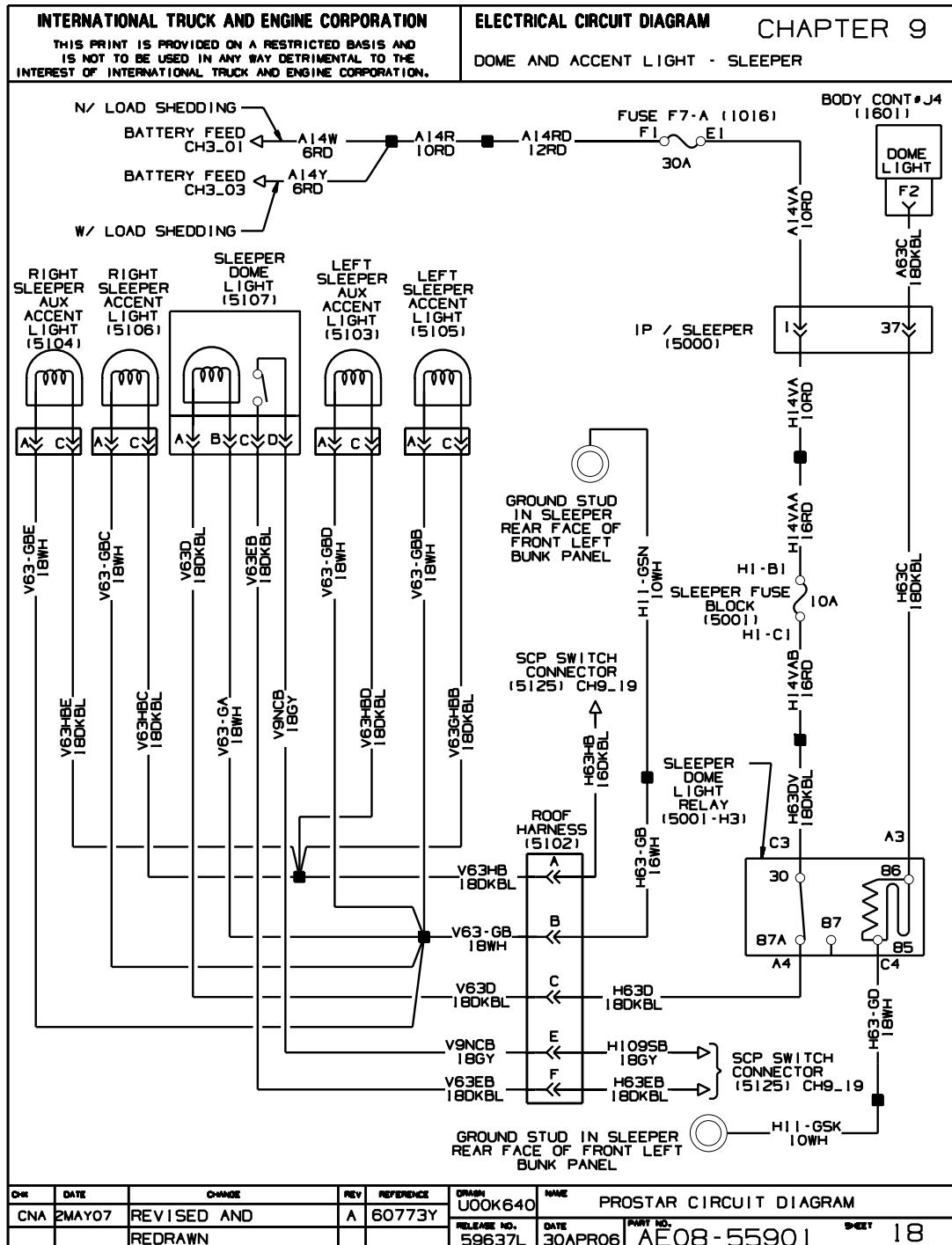


Figure 139 Dome and Accent Light — Sleeper

9.19. DOME AND ACCENT LIGHT — SLEEPER, P. 19

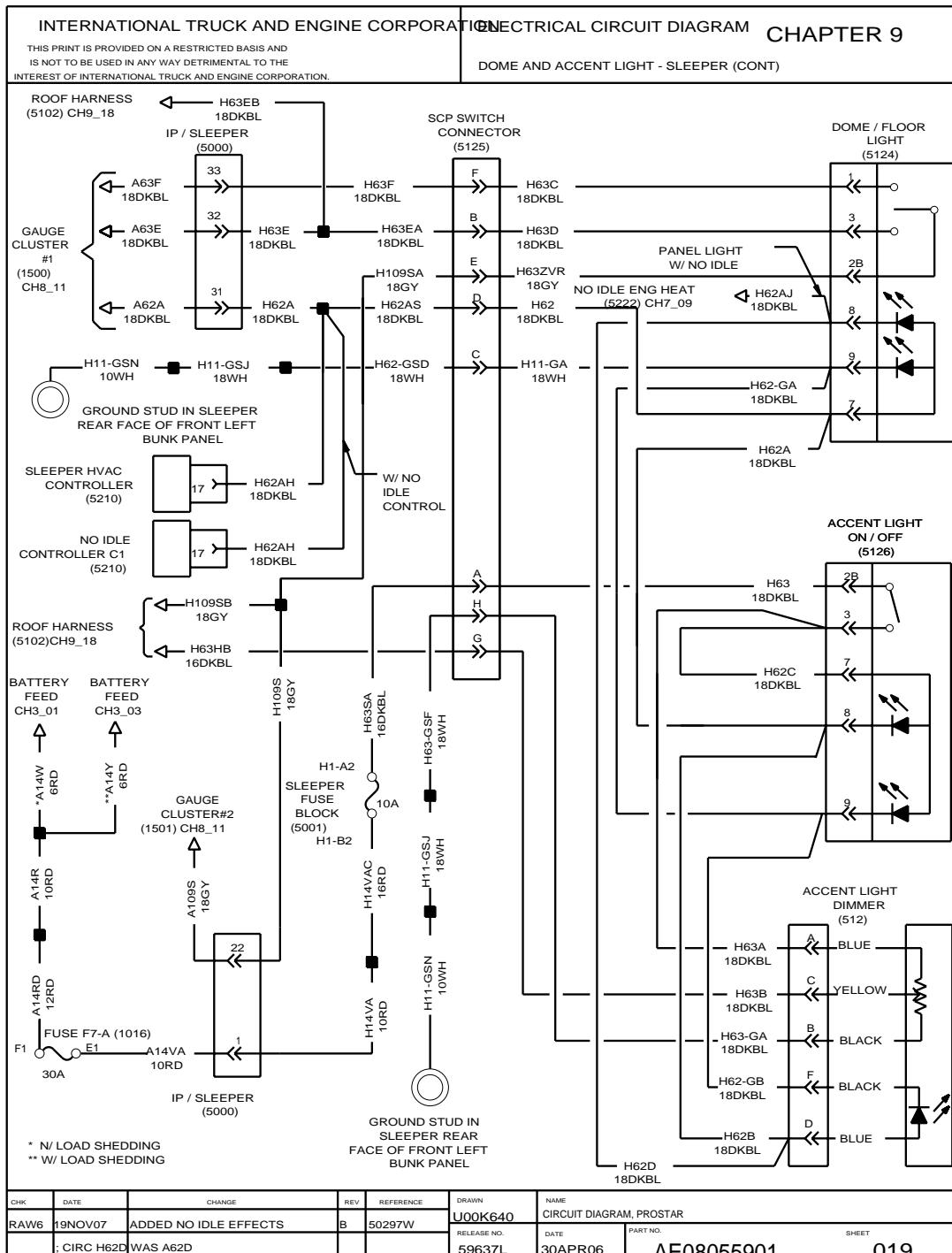


Figure 140 Dome and Accent Light — Sleeper

9.20. LIGHTED AIR SHIELD, P. 20

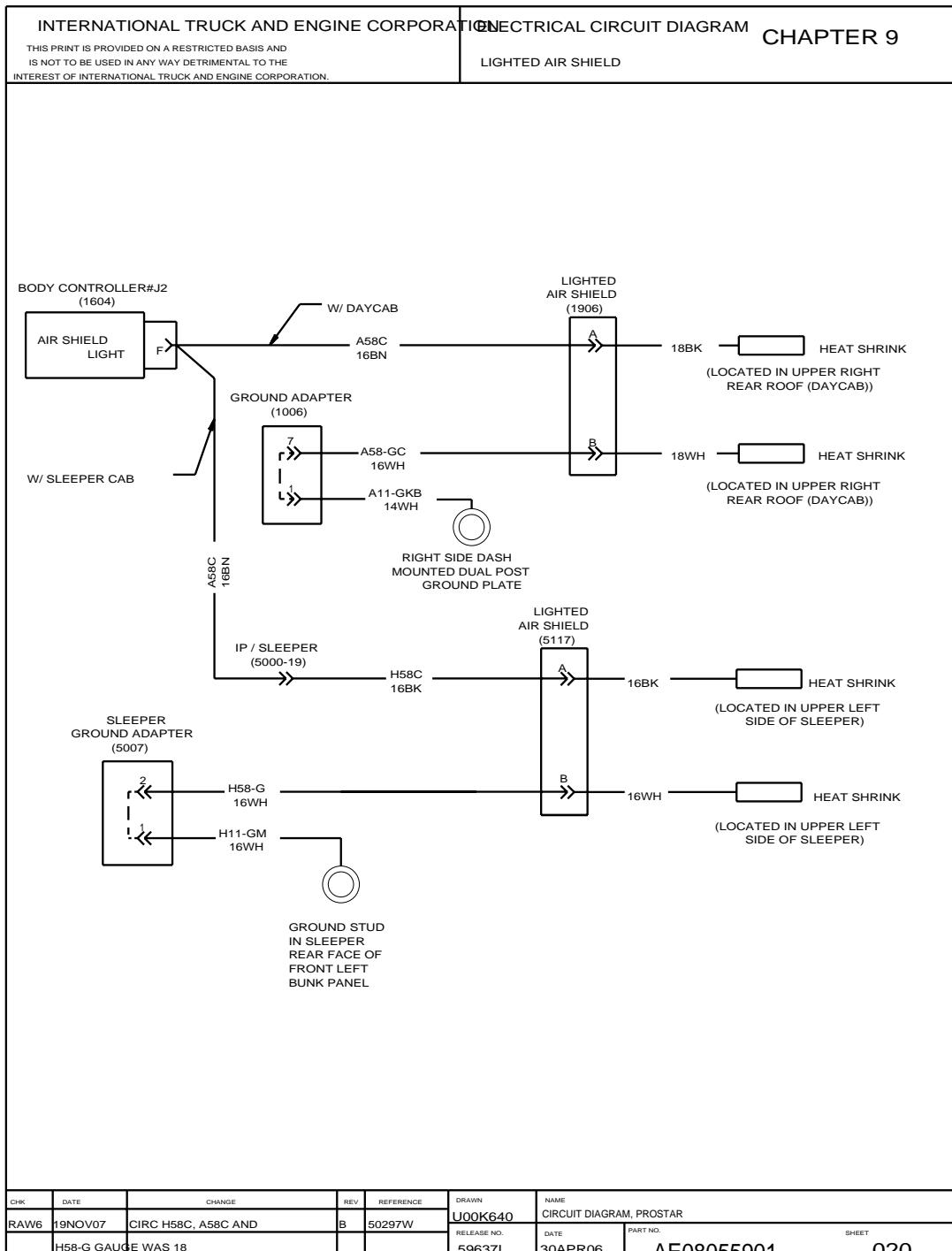


Figure 141 Lighted Air Shield

9.21. PANEL LIGHTS, P. 21

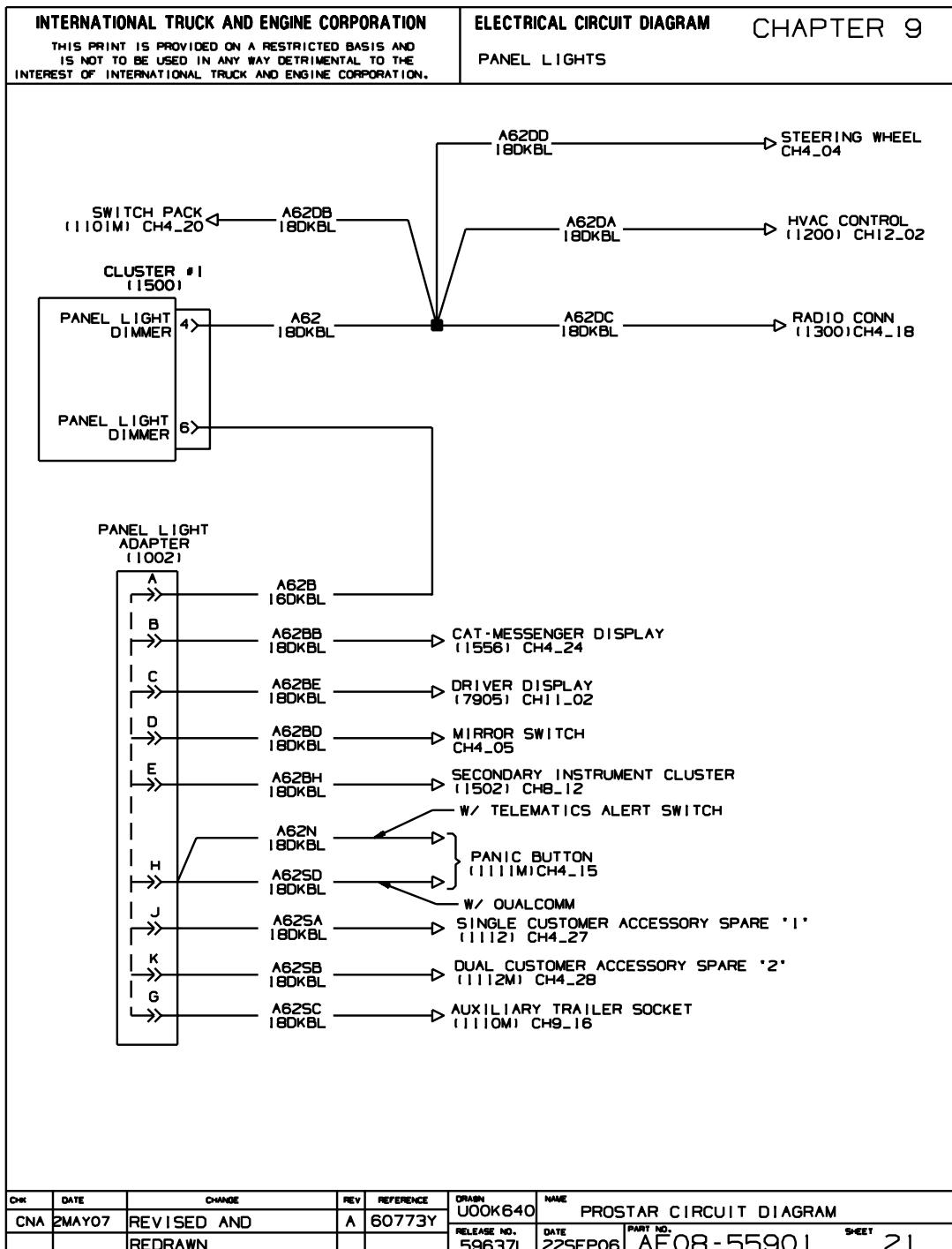


Figure 142 Panel Lights

9.22. WORK LIGHTS — DAY CAB, P. 22

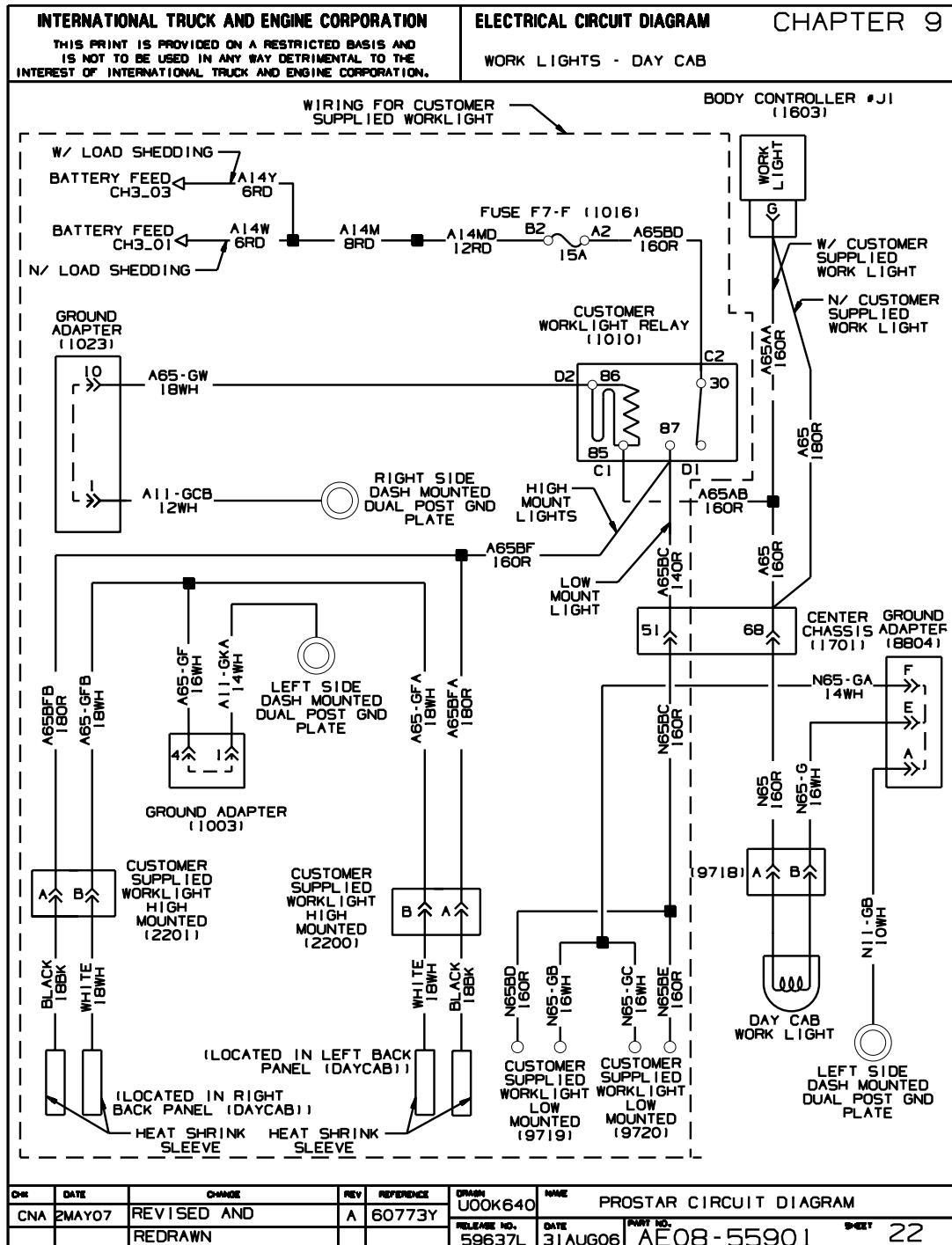


Figure 143 Work Lights — Day Cab

9.23. WORK LIGHTS — SLEEPER CAB, P. 23

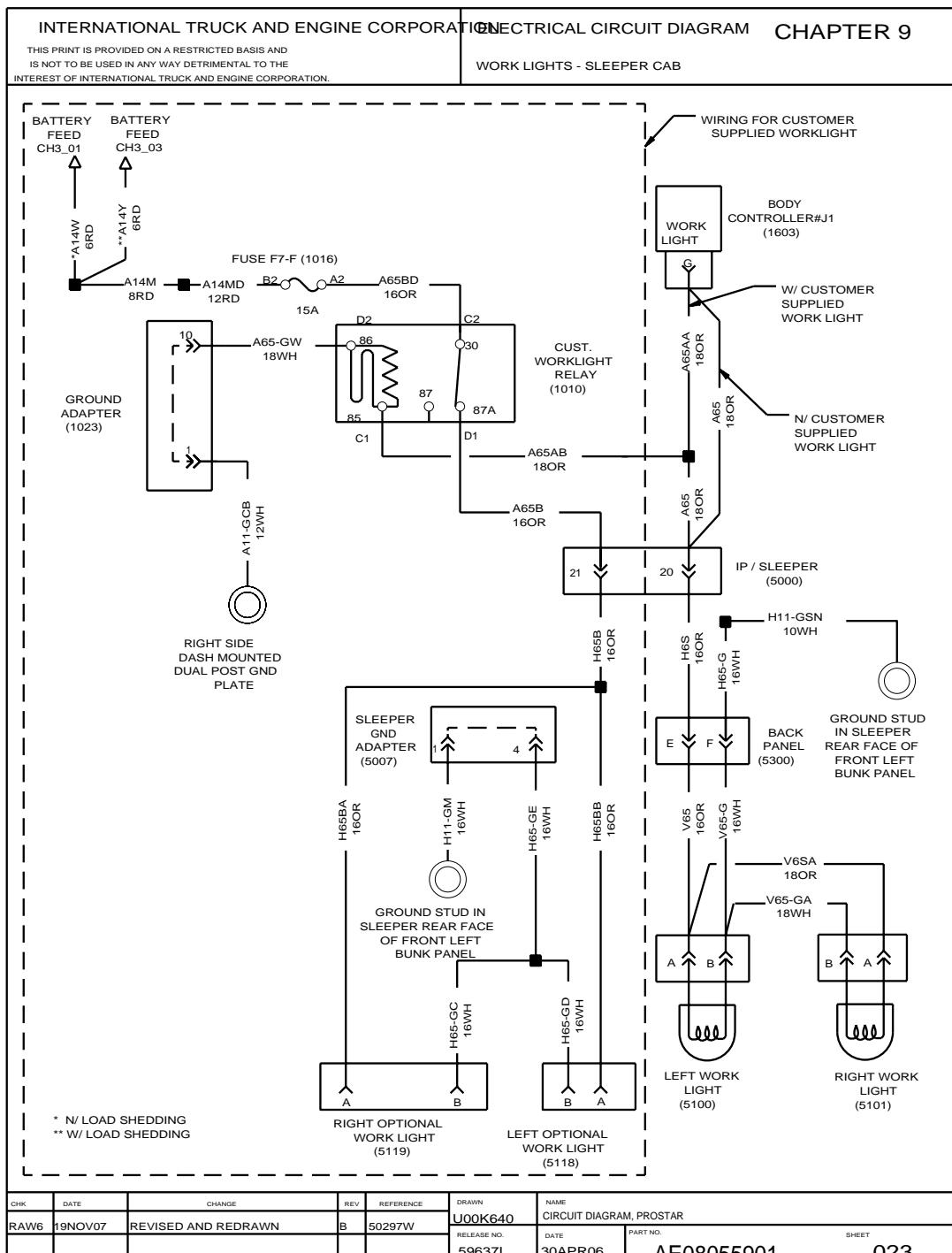


Figure 144 Work Lights — Sleeper Cab