

SERVICE MANUAL

SERVICE MANUAL SECTION

**3000FE, 3000RE Models Built August 1, 2000 to February 29, 2004 —
ELECTRICAL CIRCUIT DIAGRAMS**

Model: 3000 FE

Start Date: 08/01/2000 End Date: 02/29/2004

Model: 3000 RE

Start Date: 08/01/2000 End Date: 02/29/2004

s08208Y, Formerly CTS-5216W

03/27/2000

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1. ELECTRICAL CIRCUIT DIAGRAMS — 3000FE

1.1. INSTRUCTIONS AND CHARTS, (CHAPTER 1)

Circuit Diagram Instructions, p. 1

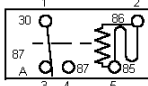
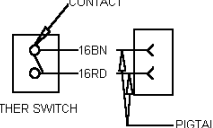
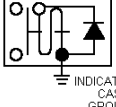
NAVISTAR INTERNATIONAL TRANSPORTATION CORP. ELECTRICAL CIRCUIT DIAGRAMS CHAPTER 1			
THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE NAVISTAR INTERNATIONAL TRANSPORTATION CORP.			
A- SWITCH AND RELAY POSITIONS AS SHOWN ON CIRCUIT DIAGRAMS INDICATE NORMAL POSITION WITH IGNITION OFF UNLESS OTHERWISE NOTED.  SWITCH-MANUAL  RELAY-SUPPRESSED  ETHER SWITCH  INDICATES CASE GROUND B- MULTIPLE CONNECTORS ARE DISPLAYED ON SCHEMATIC AS SHOWN. REFER TO CONNECTOR COMPOSITE WITH APPLICABLE NUMBER FOR MORE COMPLETE INFORMATION.  12 AND/OR 12 SINGLE IN-LINE CONNECTORS DISPLAYED AS SHOWN WITHOUT CONNECTOR NUMBER. 			

Figure 1 Circuit Diagram Instructions, Page 1

Circuit Diagram Instructions, p. 2

NAVISTAR INTERNATIONAL TRANSPORTATION CORP.					ELECTRICAL CIRCUIT DIAGRAMS CHAPTER 1								
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E - CIRCUIT 11 DENOTES ANY COMMON GROUND, (MORE THAN ONE CIRCUIT). ANY INDIVIDUAL GROUND CIRCUIT IS IDENTIFIED WITH THAT PARTICULAR CIRCUIT NUMBER. (E.G CIRCUIT 97 CRUISE CONTROL, IS IDENTIFIED PER EXAMPLE). NOTE: FOR CIRCUIT DESCRIPTION OTHER THAN GROUNDS, NEITHER THE LETTER G OR THE COLOR WHITE WILL BE USED. GROUND CIRCUITS ARE DESCRIBED THUS: 11-G 11-GA 11-GB 97-G 97-GA 97-GB													
F - ABBREVIATIONS: COLOR AND NOUNS <table style="width: 100%; border: none;"> <tr> <th style="text-align: left; border-bottom: 1px solid black; width: 50%;">COLOR ABBREVIATION</th> <th style="text-align: left; border-bottom: 1px solid black; width: 50%;">NOUN ABBREVIATION</th> </tr> <tr> <td style="vertical-align: top; border: none;"> AQ - AQUA BK - BLACK BL - BLUE BN - BROWN DK GN - DARK GREEN GD - GOLD GY - GRAY GN - GREEN LT BL - LIGHT BLUE LT GN - LIGHT GREEN OR - ORANGE PK - PINK PL - PURPLE RD - RED SIL - SILVER TN - TAN VT - VIOLET WH - WHITE YL - YELLOW ENGINE ABBREVIATION I6-CEC - MFG (NAVISTAR) I6-HEUI ELECTRONIC ENGINE CONTROL (ENGINE MOUNTED CONTROL MODULE) </td> <td style="vertical-align: top; border: none;"> A — ACCESSORY AC - AIR CONDITIONER AUX - AUXILIARY AWG - AMERICAN WIRE GAUGE B — BATTERY BAT - BATTERY CONN - CONNECTION OR CONNECTOR DRL - DAYTIME RUNNING LIGHTS ENG - ENGINE FWD - FORWARD GA - GAUGE G — GROUND GND - GROUND I — IGNITION IGN - IGNITION IND - INDICATOR L - LEFT LT - LIGHT OPT - OPTIONAL R - RIGHT S - START OR SENDER THERMO - THERMOSTAT W/ - WITH W/O - WITHOUT </td> </tr> </table>										COLOR ABBREVIATION	NOUN ABBREVIATION	AQ - AQUA BK - BLACK BL - BLUE BN - BROWN DK GN - DARK GREEN GD - GOLD GY - GRAY GN - GREEN LT BL - LIGHT BLUE LT GN - LIGHT GREEN OR - ORANGE PK - PINK PL - PURPLE RD - RED SIL - SILVER TN - TAN VT - VIOLET WH - WHITE YL - YELLOW ENGINE ABBREVIATION I6-CEC - MFG (NAVISTAR) I6-HEUI ELECTRONIC ENGINE CONTROL (ENGINE MOUNTED CONTROL MODULE)	A — ACCESSORY AC - AIR CONDITIONER AUX - AUXILIARY AWG - AMERICAN WIRE GAUGE B — BATTERY BAT - BATTERY CONN - CONNECTION OR CONNECTOR DRL - DAYTIME RUNNING LIGHTS ENG - ENGINE FWD - FORWARD GA - GAUGE G — GROUND GND - GROUND I — IGNITION IGN - IGNITION IND - INDICATOR L - LEFT LT - LIGHT OPT - OPTIONAL R - RIGHT S - START OR SENDER THERMO - THERMOSTAT W/ - WITH W/O - WITHOUT
COLOR ABBREVIATION	NOUN ABBREVIATION												
AQ - AQUA BK - BLACK BL - BLUE BN - BROWN DK GN - DARK GREEN GD - GOLD GY - GRAY GN - GREEN LT BL - LIGHT BLUE LT GN - LIGHT GREEN OR - ORANGE PK - PINK PL - PURPLE RD - RED SIL - SILVER TN - TAN VT - VIOLET WH - WHITE YL - YELLOW ENGINE ABBREVIATION I6-CEC - MFG (NAVISTAR) I6-HEUI ELECTRONIC ENGINE CONTROL (ENGINE MOUNTED CONTROL MODULE)	A — ACCESSORY AC - AIR CONDITIONER AUX - AUXILIARY AWG - AMERICAN WIRE GAUGE B — BATTERY BAT - BATTERY CONN - CONNECTION OR CONNECTOR DRL - DAYTIME RUNNING LIGHTS ENG - ENGINE FWD - FORWARD GA - GAUGE G — GROUND GND - GROUND I — IGNITION IGN - IGNITION IND - INDICATOR L - LEFT LT - LIGHT OPT - OPTIONAL R - RIGHT S - START OR SENDER THERMO - THERMOSTAT W/ - WITH W/O - WITHOUT												
CHK	DATE	CHANGE	REV	REFERENCE	DRAWN BRKHLDR	NAME EC39530, GA39530, GB39530	RELEASE NO. P50299T	DATE 24SEP97	PART NO. AE08-52316	SHEET 2			

Figure 2 Circuit Diagram Instructions, Page 2

Schematic Symbols, p. 3

NAVISTAR INTERNATIONAL TRANSPORTATION CORPORATION				ELECTRICAL CIRCUIT DIAGRAMS CHAPTER 1			
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SYMBOL		DESCRIPTION		SYMBOL		DESCRIPTION	
		MALE/FEMALE IN-LINE CONNECTION				ALARM-ELECTRONIC	
		FEMALE TERMINAL				SOLENOID-GENERAL USAGE	
		MALE TERMINAL				MOTOR-ELECTRIC	
		GROUND				ELECTRONIC MODULE	
		FUSE				HORN	
		CIRCUIT BREAKER (TYPE 1)				SPEAKER-SOUND SYSTEM	
		DIODE				FLASHER-TURN SIGNAL, HAZARD	
		FUSEABLE LINK				MAGNETIC SWITCH	
		RESISTOR				LIGHT-SINGLE FILAMENT	
		SWITCH CONTACT, NORMALLY OPEN				LIGHT-DOUBLE FILAMENT	
		SWITCH CONTACT, NORMALLY CLOSED				SENDER-OIL, WATER, FUEL, TEMPERATURE	
		JUNCTION POINT					
		SPLICE					
		SWITCH-PUSH BUTTON					
		SWITCH-PRESSURE					
		SWITCH-MANUAL/MECHANICAL					
		SWITCH-WITH LIGHT					
		RELAY-SUPPRESSED					
		ACCELERATOR POSITION SENSOR					
CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	
					BRKHLDR	EC39530, GA39530, GB39530	
					RELEASE NO.	DATE	PART NO.
					P50299T	24SEP97	AE08-52316
							SHEET
							3

Figure 3 Schematic Symbols

Schematic Symbols, p. 4

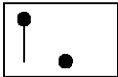
NAVISTAR INTERNATIONAL TRANSPORTATION CORPORATION					ELECTRICAL CIRCUIT DIAGRAM			CHAPTER 1	
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SYMBOL		DESCRIPTION							
		CLUTCH PEDAL SWITCH							
		COOLANT LEVEL PROBE							
		WATER PROBE (WIF)							
									</

Figure 4 Schematic Symbols

International Circuit Number Identification, p. 5

NAVISTAR INTERNATIONAL TRANSPORTATION CORP. ELECTRICAL CIRCUIT DIAGRAM CHAPTER 1			
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NAVISTAR CIRCUIT NUMBER IDENTIFICATION			
CIRCUIT NUMBER	DESCRIPTION	CIRCUIT NUMBER	DESCRIPTION
1	ALTERNATOR-FIELD	37	
2	GENERATOR - CHARGE	38	
3		39	
4		40	
5			
6		42	
7		43	
8		44	PARK BRAKE
9		45	
10		46	
11	GROUND	47	SPEEDOMETER
12	ACC FEED	48	TACHOMETER
13	IGNITION FEED	49	
14	BATTERY FEED	50	HEADLIGHTS FEED
15	KEY SWITCH FEED	51	DIMMER SWITCH
16		52	HEADLIGHT-HI BEAM
17	STARTER CONTROL	53	HEADLIGHT-LO BEAM
18		54	
19	WATER IN FUEL	55	TURN SIGNAL LIGHTS
20		56	LEFT TURN SIGNAL
21	ETHER START	57	RIGHT TURN SIGNAL
22		58	MARKER LIGHTS
23	ENGINE COOLING	59	
24	EXHAUST BRAKE	60	FLASHER
25		61	
26	AMMETER	62	PANEL LIGHTS
27	VOLTMETER	63	
28	INSTRUMENT FEED/GAUGES	64	
29	ENGINE WATER TEMPERATURE	65	
30		66	DAYTIME RUNNING LIGHTS
31	TRANSMISSION OIL TEMPERATURE	67	
32		68	
33		69	
34	COOLANT LEVEL	70	STOP LIGHTS
35	ENGINE OIL PRESSURE	71	BACK-UP LIGHTS
36	FUEL LEVEL	72	
CHK	DATE	CHANGE	REV REFERENCE
		DRAWN	NAME
		STRUVER	EC39530, GA39530, GB39530
		RELEASE NO.	DATE
		P50299T	29AUG97
		PART NO.	SHEET
		AE08-52316	5

Figure 5 International Circuit Number Identification

International Circuit Number Identification, p. 6

NAVISTAR INTERNATIONAL TRANSPORTATION CORP. ELECTRICAL CIRCUIT DIAGRAM CHAPTER 1																																																													
THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE NAVISTAR INTERNATIONAL TRANSPORTATION CORP.	INSTRUCTIONS & CHARTS: NAVISTAR CIRCUIT NUMBER IDENTIFICATION																																																												
<table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 20px;"> <thead> <tr> <th style="width: 10%;">CIRCUIT NUMBER</th> <th style="width: 40%;">DESCRIPTION</th> <th style="width: 10%;">CIRCUIT NUMBER</th> <th style="width: 40%;">DESCRIPTION</th> </tr> </thead> <tbody> <tr><td>73</td><td></td><td>87</td><td></td></tr> <tr><td>74</td><td></td><td>88</td><td></td></tr> <tr><td>75</td><td></td><td>89</td><td></td></tr> <tr><td>76</td><td></td><td>90</td><td>HYDRAULIC BRAKE PUMP MOTOR</td></tr> <tr><td>77</td><td></td><td>91</td><td></td></tr> <tr><td>78</td><td></td><td>92</td><td>ALLISON AUTOMATIC TRANSMISSION</td></tr> <tr><td>79</td><td></td><td>93</td><td></td></tr> <tr><td>80</td><td></td><td>94</td><td>ANTI-LOCK BRAKES</td></tr> <tr><td>81</td><td></td><td>95</td><td></td></tr> <tr><td>82</td><td></td><td>96</td><td></td></tr> <tr><td>83</td><td></td><td>97</td><td>CRUISE CONTROL/ENGINE CONTROLS</td></tr> <tr><td>84</td><td></td><td>98</td><td>(+) & (-) ATA DATALINK/DIAGNOSTICS</td></tr> <tr><td>85</td><td>HORN</td><td>99</td><td>ACCELERATOR POSITION SENSOR (APS)</td></tr> <tr><td>86</td><td></td><td></td><td></td></tr> </tbody> </table> ALLISON AUTOMATIC TRANSMISSION CIRCUIT NUMBER NOTE: CIRCUITS LABELED ALLISON SUPPLIED OR CIRCUITS NUMBERED 102 THRU 195 ARE ALLISON NUMBERING AND COLOR CODING CONVENTION AND DO NOT FOLLOW THE STANDARD NAVISTAR CONVENTION. AS WELL AS CIRCUITS "CAN-H, CAN-L & SHLD"(FOUND IN J-1939 BACKBONE HARNESS USED WITH WTEC III TRANSMISSION)		CIRCUIT NUMBER	DESCRIPTION	CIRCUIT NUMBER	DESCRIPTION	73		87		74		88		75		89		76		90	HYDRAULIC BRAKE PUMP MOTOR	77		91		78		92	ALLISON AUTOMATIC TRANSMISSION	79		93		80		94	ANTI-LOCK BRAKES	81		95		82		96		83		97	CRUISE CONTROL/ENGINE CONTROLS	84		98	(+) & (-) ATA DATALINK/DIAGNOSTICS	85	HORN	99	ACCELERATOR POSITION SENSOR (APS)	86			
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85	HORN	99	ACCELERATOR POSITION SENSOR (APS)																																																										
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CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME																																																							
					BRKHLDR	EC39530, GA39530, GB39530																																																							
					RELEASE NO.	DATE	PART NO.																																																						
					P50299T	06SEP97	AE08-52316																																																						
						SHEET	06																																																						

Figure 6 International Circuit Number Identification

NAVISTAR INTERNATIONAL TRANSPORTATION CORPORATION				ELECTRICAL CIRCUIT DIAGRAM CHAPTER 1	
THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE NAVISTAR INTERNATIONAL TRANSPORTATION CORP.				NAVISTAR CIRCUIT NUMBER IDENTIFICATION: ENGINE CONTROL MODULE	
ECM PIN #	TERM	DESCRIPTION	ECM PIN #	TERM	DESCRIPTION
12	AAT	AMBIENT AIR TEMPERATURE SENSOR	27	IVS	IDLE VALIDATION SWITCH
33	ACD	A/C DEMAND	54	OWL	OIL/WATER WARNING LIGHT
8	APS	ACCELERATOR POSITION SENSOR	25	PWR RLY	CEC MAIN POWER RELAY SIGNAL
16	ATA(+)	J1708 DATA LINK (+)	31	RAS	RESUME/ACCELERATE
17	ATA(-)	J1708 DATA LINK (-)	37	RPRF	PRESET SPEED
29	BAP	BAROMETRIC AIR PRESSURE SENSOR	30	RPS	REMOTE ACCELERATOR POS. SENS. SIG.
43	BNO1	BRAKE STATUS #1	6	RPS_RTN	REMOTE ACCELERATOR POS. SENS. RTN.
44	BNO2	BRAKE STATUS #2	36	RVAR	VARIABLE SPEED SWITCH
18	CAN SHLD	J1939 DATA LINK SHIELD	32	SCS	SET/COAST
19	CAN(+)	J1939 DATA LINK (+)	45	SIL	SERVICE INTERVAL LIGHT
20	CAN(-)	J1939 DATA LINK (-)	34	STI	SELF TEST INPUT
15	CBE_SEL1	RETARDER/EXHAUST BRAKE REQUEST	48	SUL	SHIFT UP LIGHT
10	CLS	COOLANT LEVEL SENSOR	59	TACA	TACHOMETER A
35	COD	CRUISE ON/OFF	60	TACB	TACHOMETER B
21	DC (+)	POWER	38	TCSS	TORQUE CURVE SELECTION INPUT
22	DC (+)	POWER	28	TSA	TWO SPEED AXLE
1	DC (-)	GROUND	3	VBREF(5V)	ACCELERATOR SENSOR SUPPLY
2	DC (-)	GROUND	11	VBREF GND	ACCELERATOR SENSOR GROUND
26	DDS	DRIVELINE DISENGAUGED INPUT	5	VCREF(5V)	REMOTE ACCELERATOR SENS. SUPPLY
42	DPS	GROUND	7	VCREF GND	REMOTE ACCELERATOR SENS. GROUND
46	ECI	ENGINE CRANK INHIBIT	24	VIGN	IGNITION FEED
56	EDL	TRANSMISSION KICKDOWN	47	VRE	RETARDER/EXHAUST BRAKE ENABLE
53	GPL	GLOW PLUG LIGHT	39	VSS(+)	VEHICLE SPEED SENSOR (+)
4	HGE	HYDRAULIC PRESSURE GOVERNOR ENABLE	40	VSS(-)	VEHICLE SPEED SENSOR (-)
49	HMI	HYDRAULIC PRESS. GOVERNOR IND. LT.	58	VSSCALA	SPEEDOMETER SIGNAL A
13	HPS	HYDRAULIC PRESSURE SENSOR	57	VSSCALB	SPEEDOMETER SIGNAL B
41	HSO(+)	POWER	55	WARN	ENGINE WARNING LIGHT
23	HSO(-)	GROUND			
CHK	DATE	CHANGE	REV	REFERENCE	
			DRAWN	NAME	
			EFC/RJM	EC39530, GA39530, GB39530	
			RELEASE NO.	DATE	PART NO.
			P50299T	08OCT98	AE08-52316
					SHEET 7

Figure 7 International Circuit Number Identification: Engine Control Module

1.2. POWER DISTRIBUTION (CHAPTER 2)

Battery, p. 1

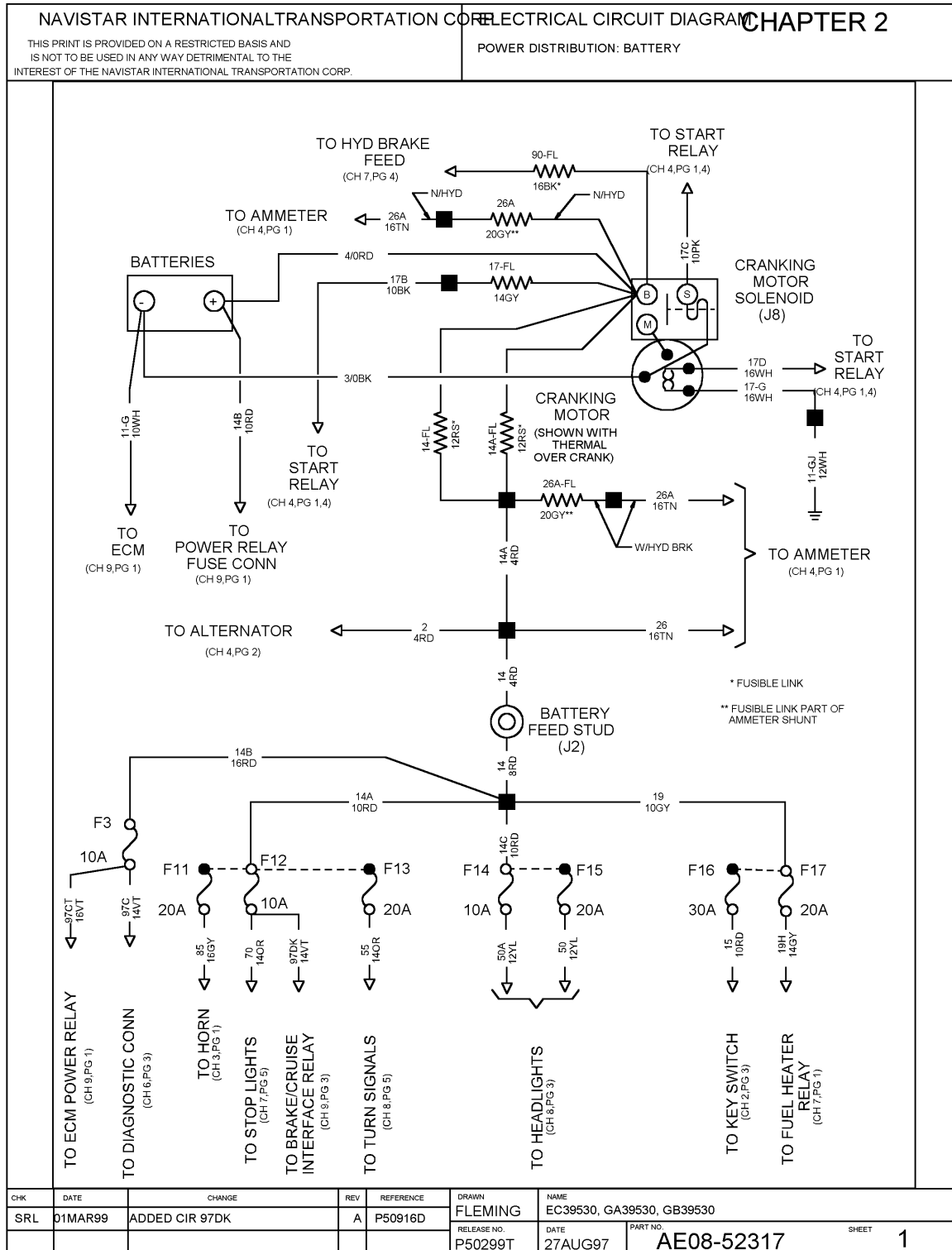


Figure 8 Battery

Ground, p. 2

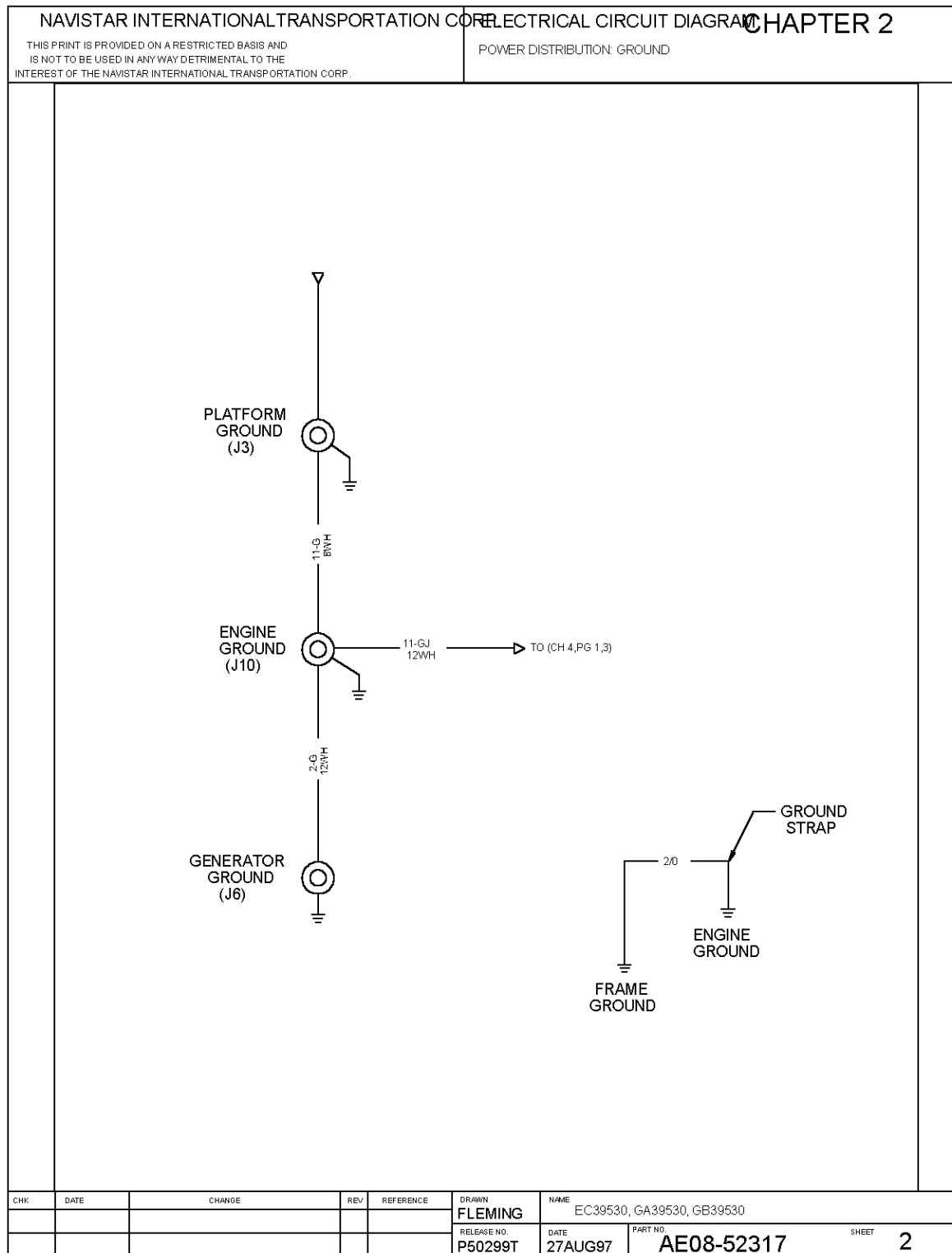
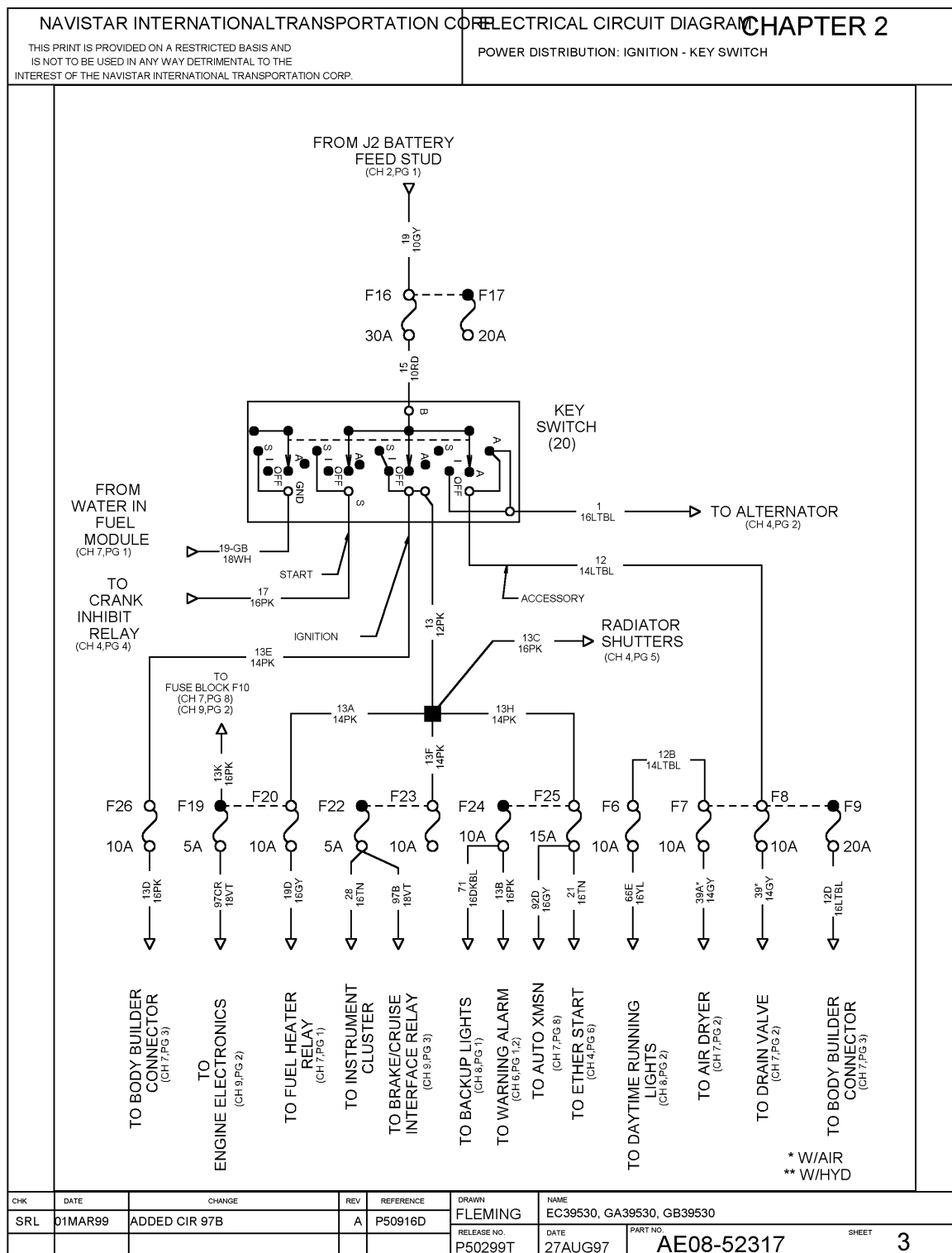


Figure 9 Ground

Ignition — Key Switch, p. 3

Figure 10 Ignition — Key Switch

1.3. CAB ACCESSORIES (CHAPTER 3)

Horn, p. 1

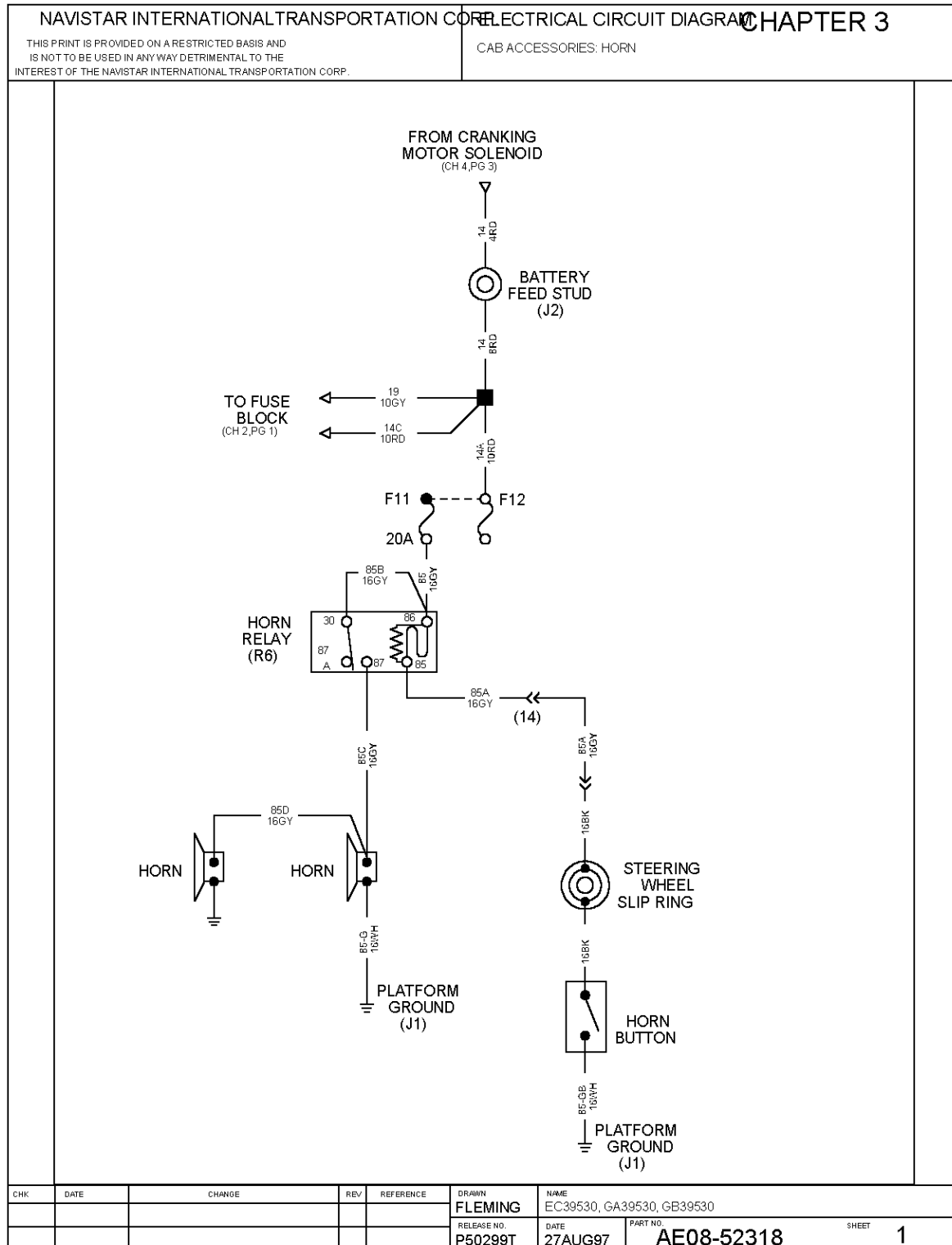


Figure 11 Horn

1.4. ENGINE SYSTEMS (CHAPTER 4)

Ammeter (Shunt), p. 1

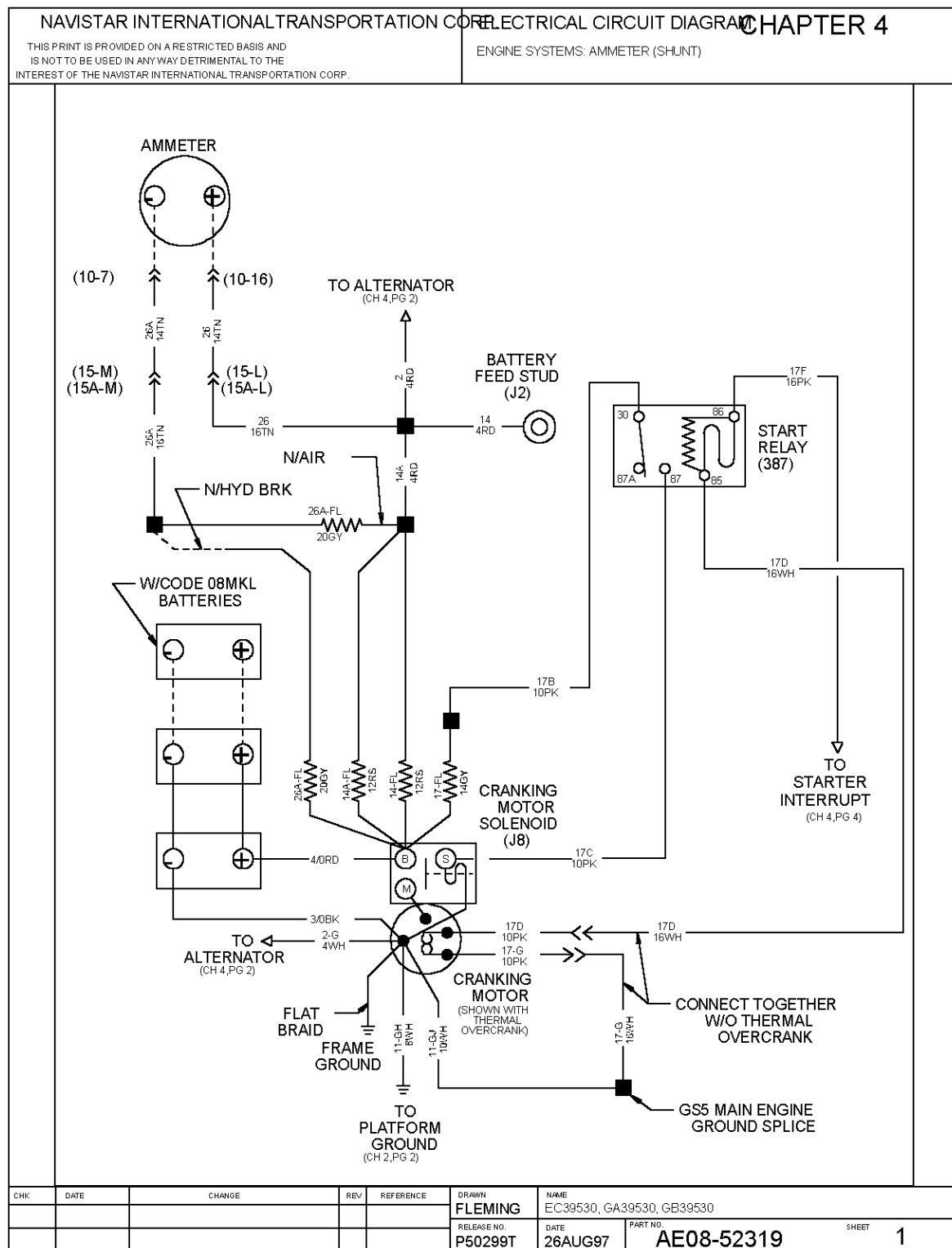


Figure 12 Ammeter (Shunt)

Charging System, p. 2

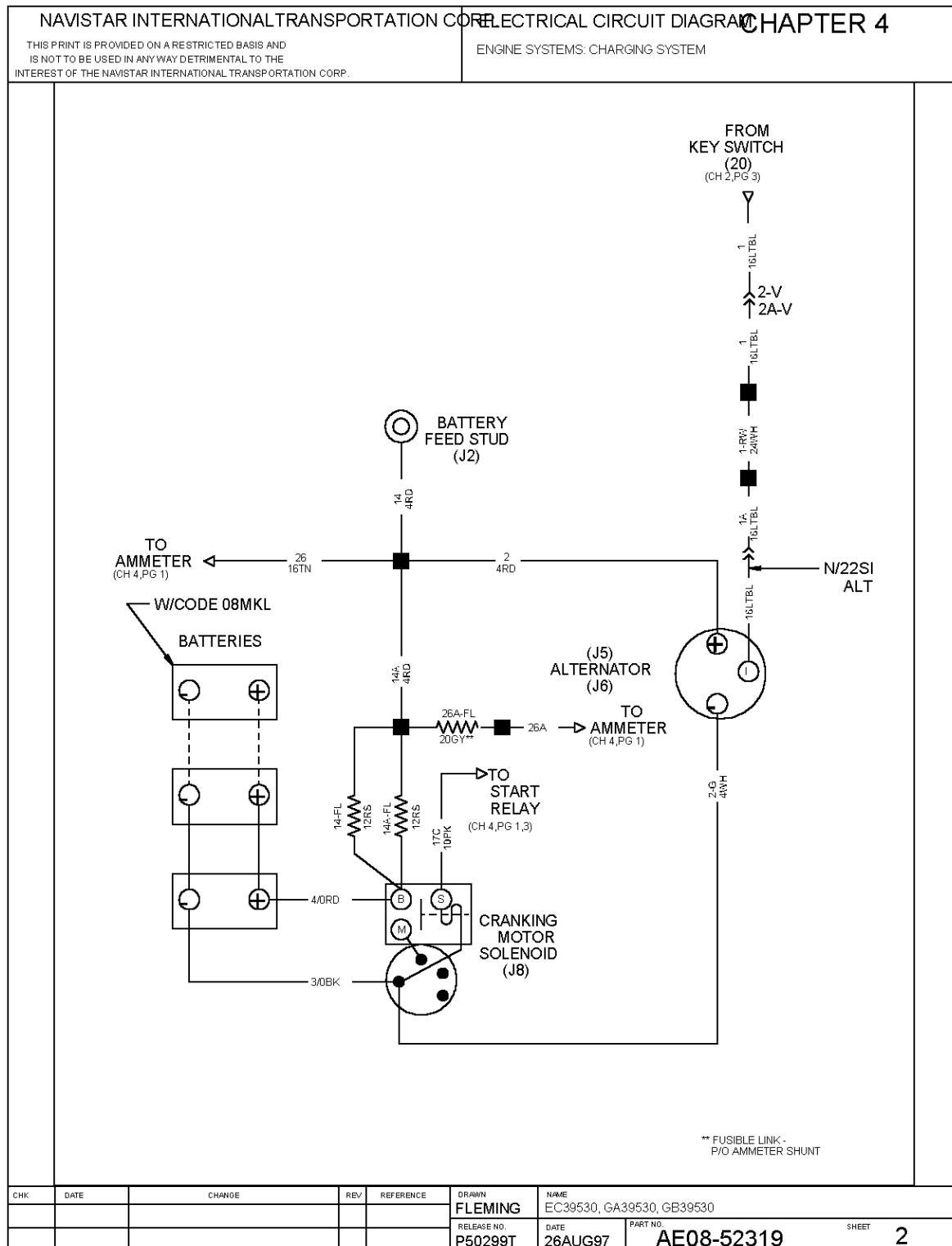
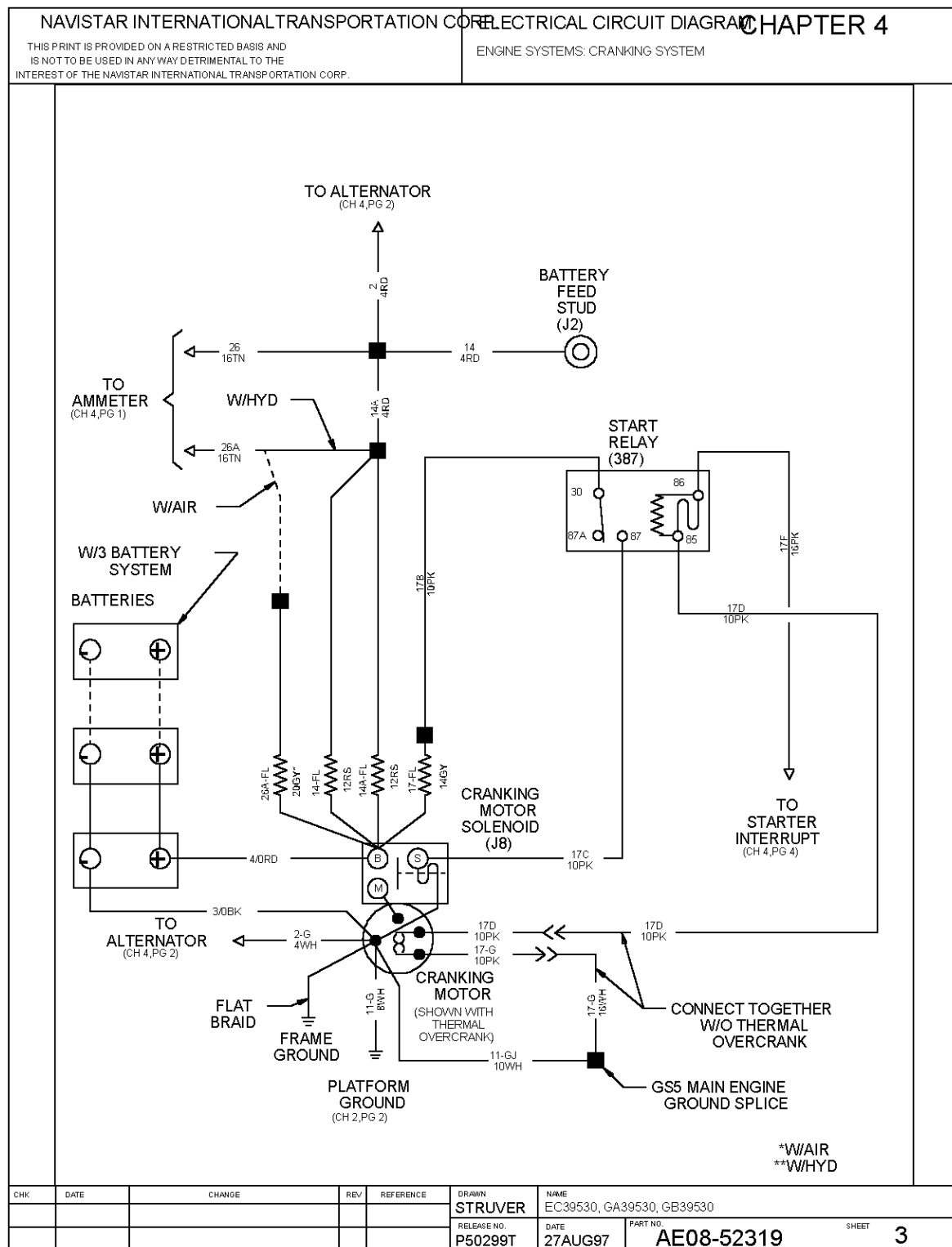


Figure 13 Charging System

Cranking System, p. 3

Figure 14 Cranking System

Cranking System, p. 4

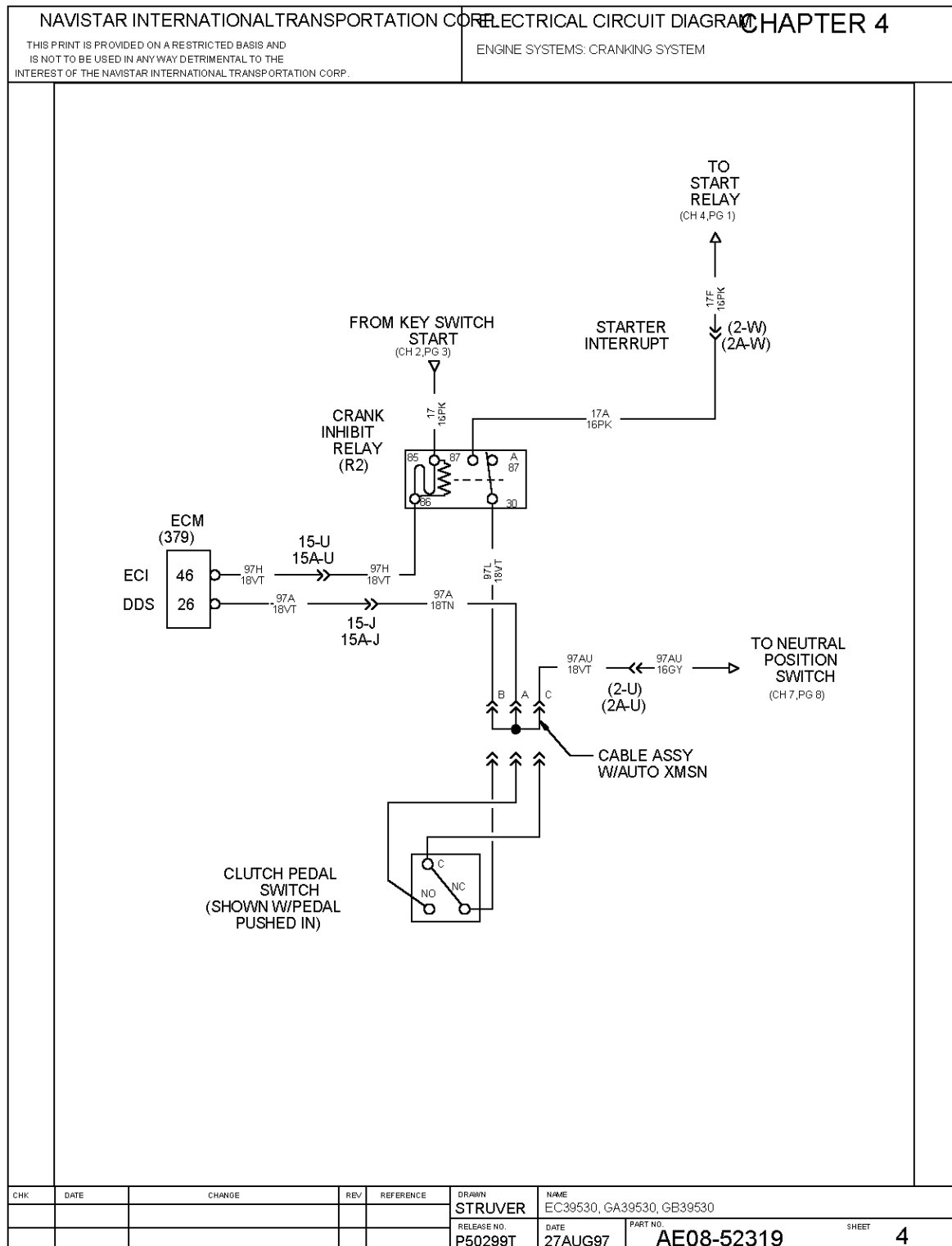
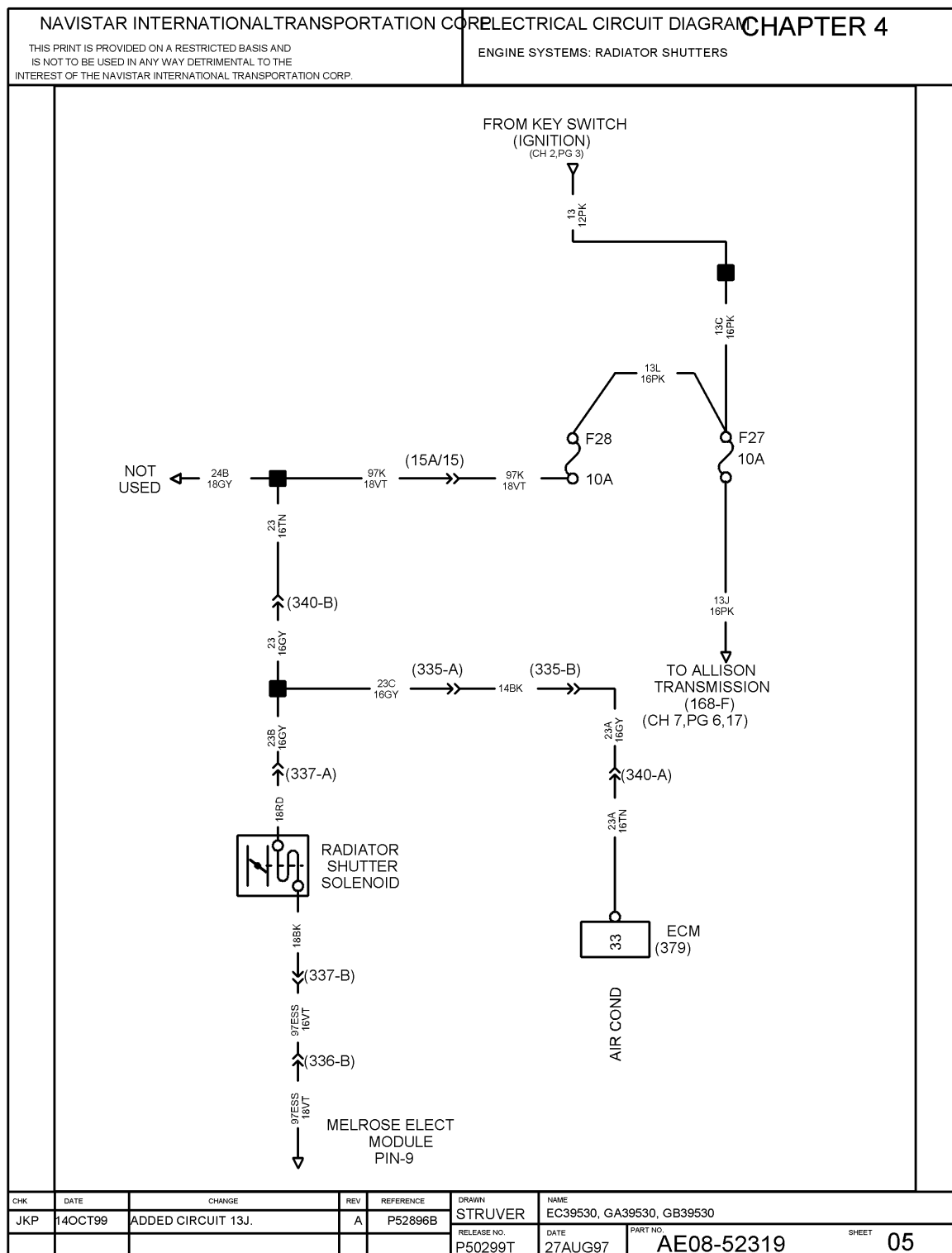


Figure 15 Cranking System

Radiator Shutters, p. 5

Figure 16 Radiator Shutters

Ether Start, p. 6

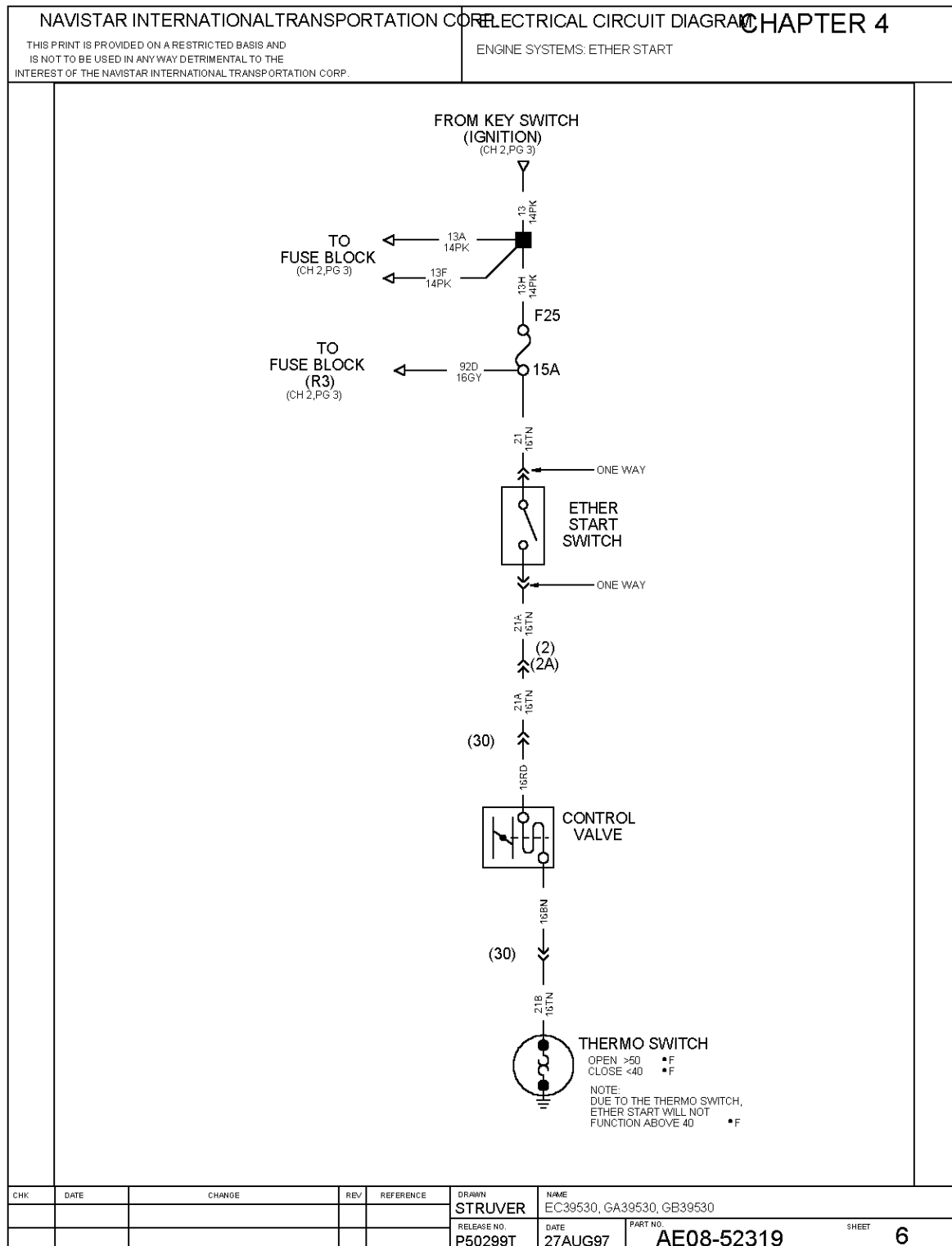


Figure 17 Ether Start

1.5. GAUGES (CHAPTER 5)

Fuel Level Gauge, p. 1

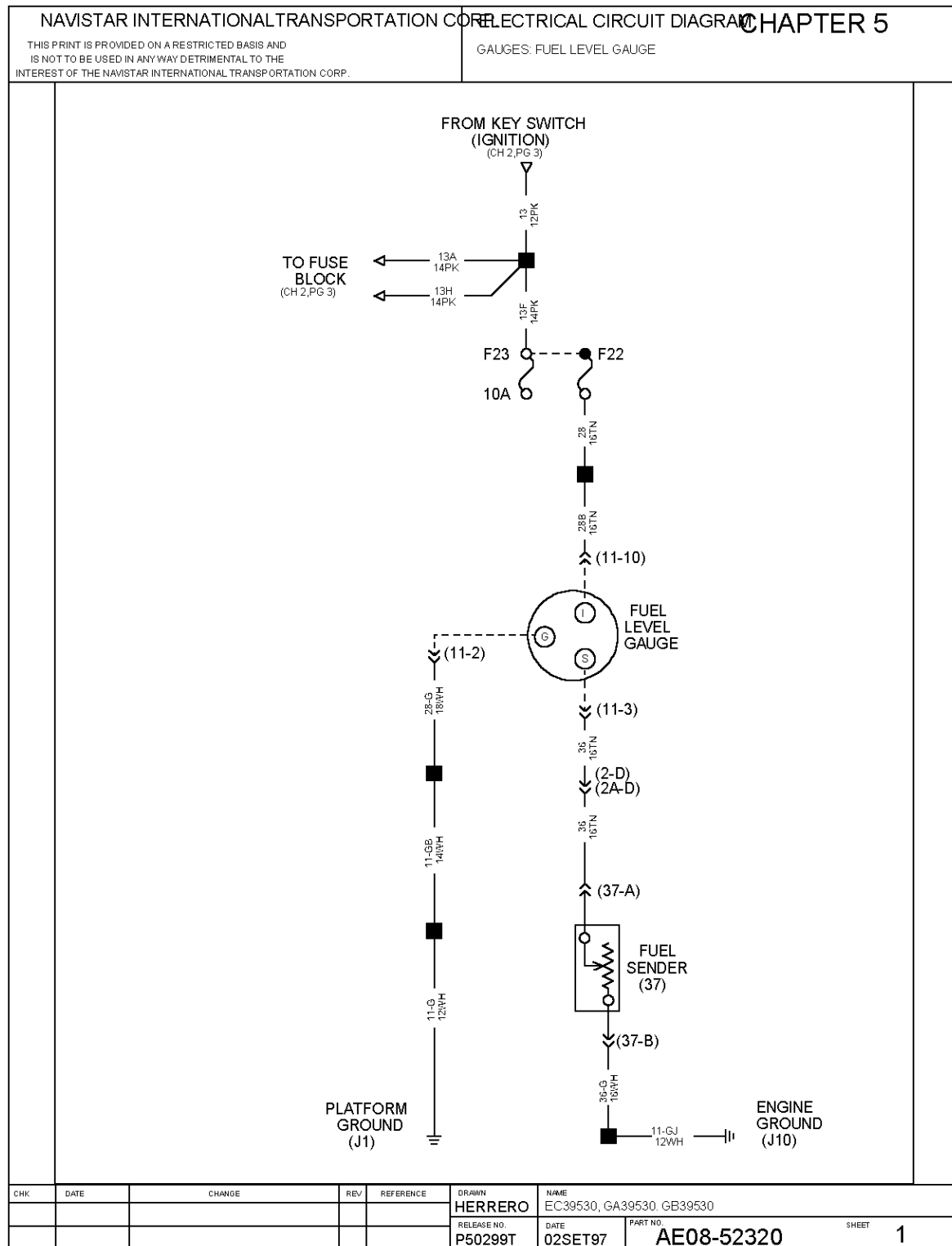


Figure 18 Fuel Level Gauge

Speedometer, Tachometer, Voltmeter, Engine Oil Pressure, Water Temperature, p. 2

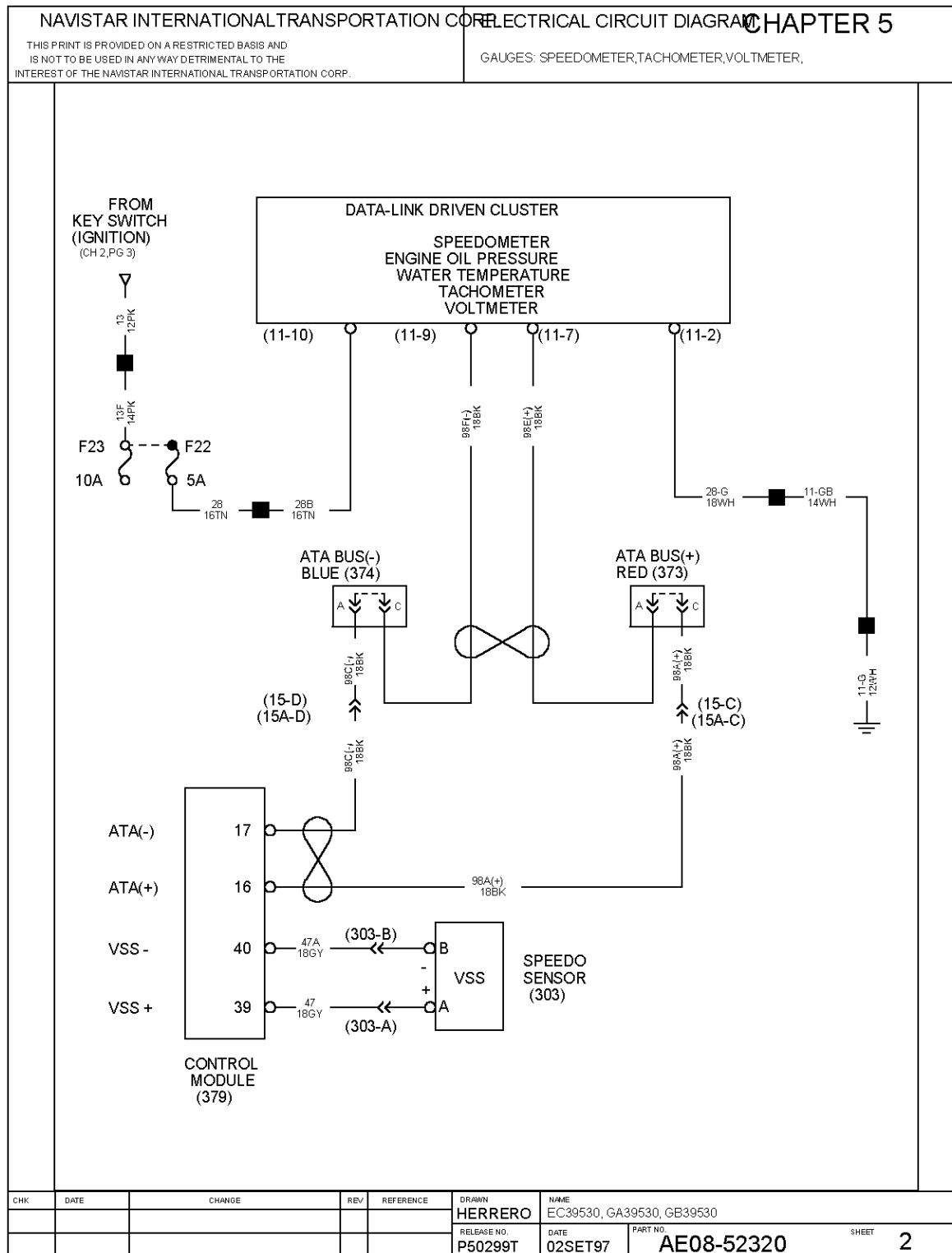


Figure 19 Speedometer, Tachometer, Voltmeter, Engine Oil Pressure, Water Temperature

Transmission Temperature Gauge, p. 3

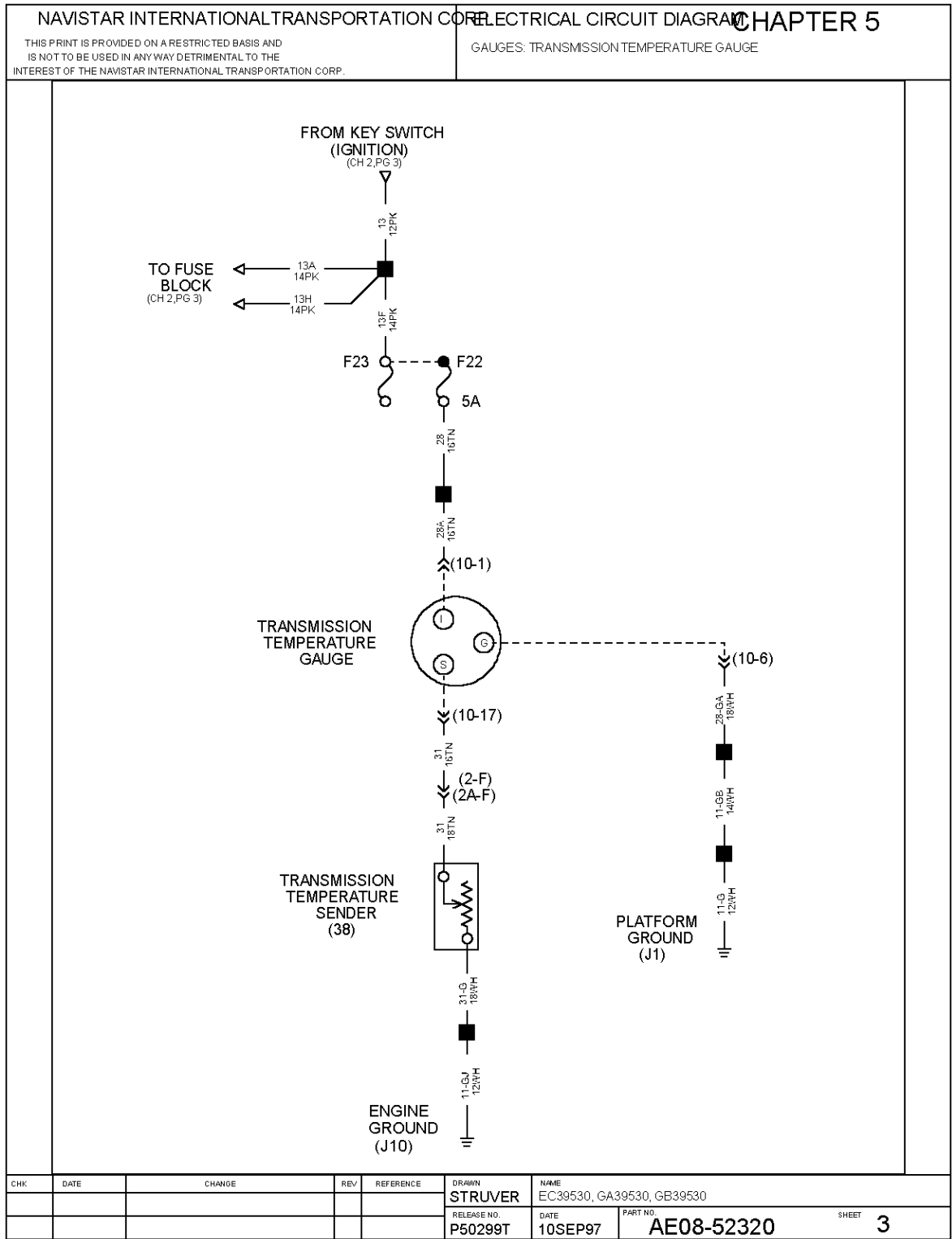
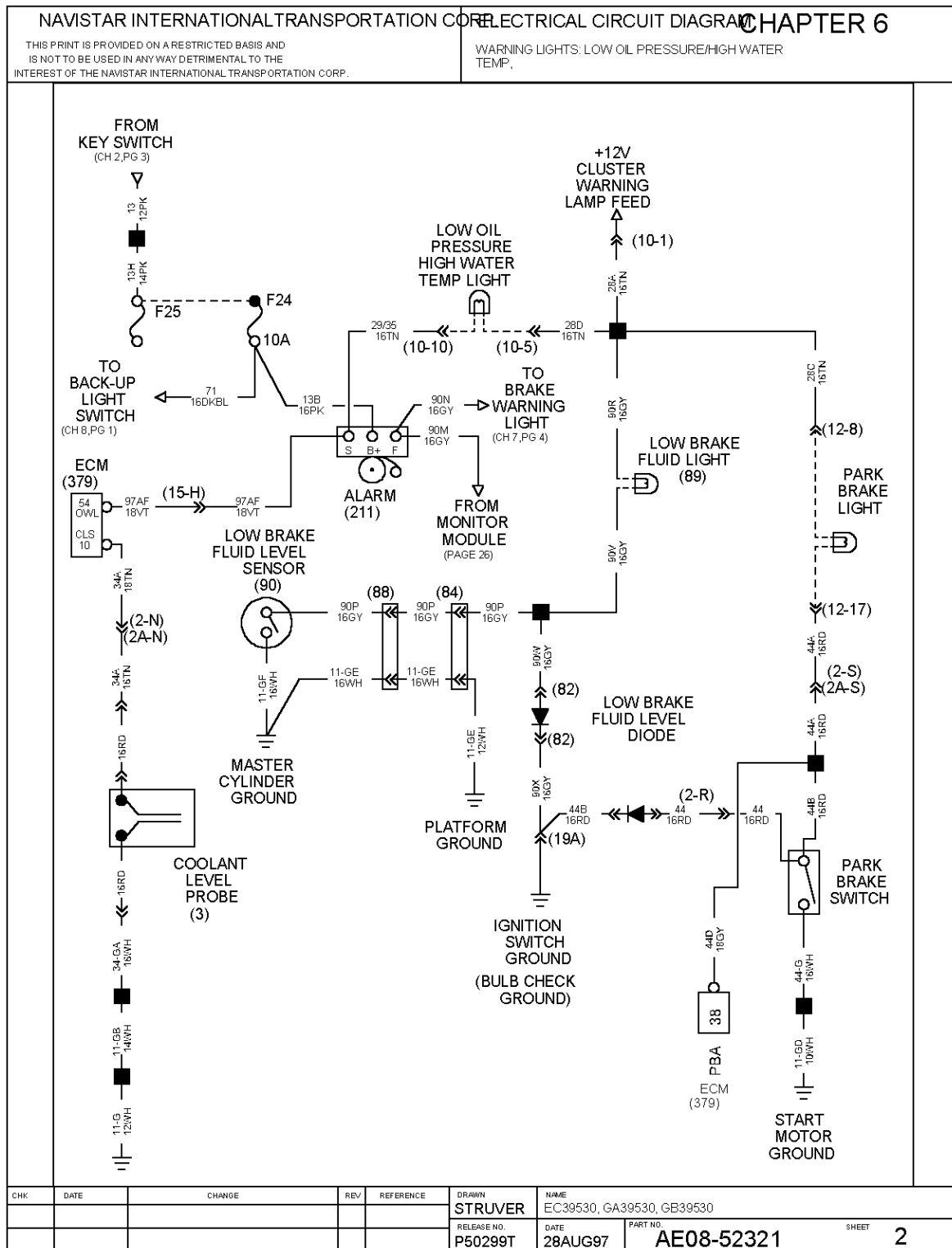


Figure 20 Transmission Temperature Gauge

Low Oil Pressure/High Water Temp/Low Coolant Level/Brake Warning (Air) Lights/Alarm, p. 1



Low Oil Pressure/High Water Temperature/Low Coolant Level/Brake Warning (Hyd.) Lights and Alarm, p. 2

Figure 22 Low Oil Pressure/High Water Temperature/Low Coolant Level/Brake Warning (Hyd.) Lights and Alarm

Diagnostic/Programming Connector and Self-Test Switch and Warning Light Systems, p. 3

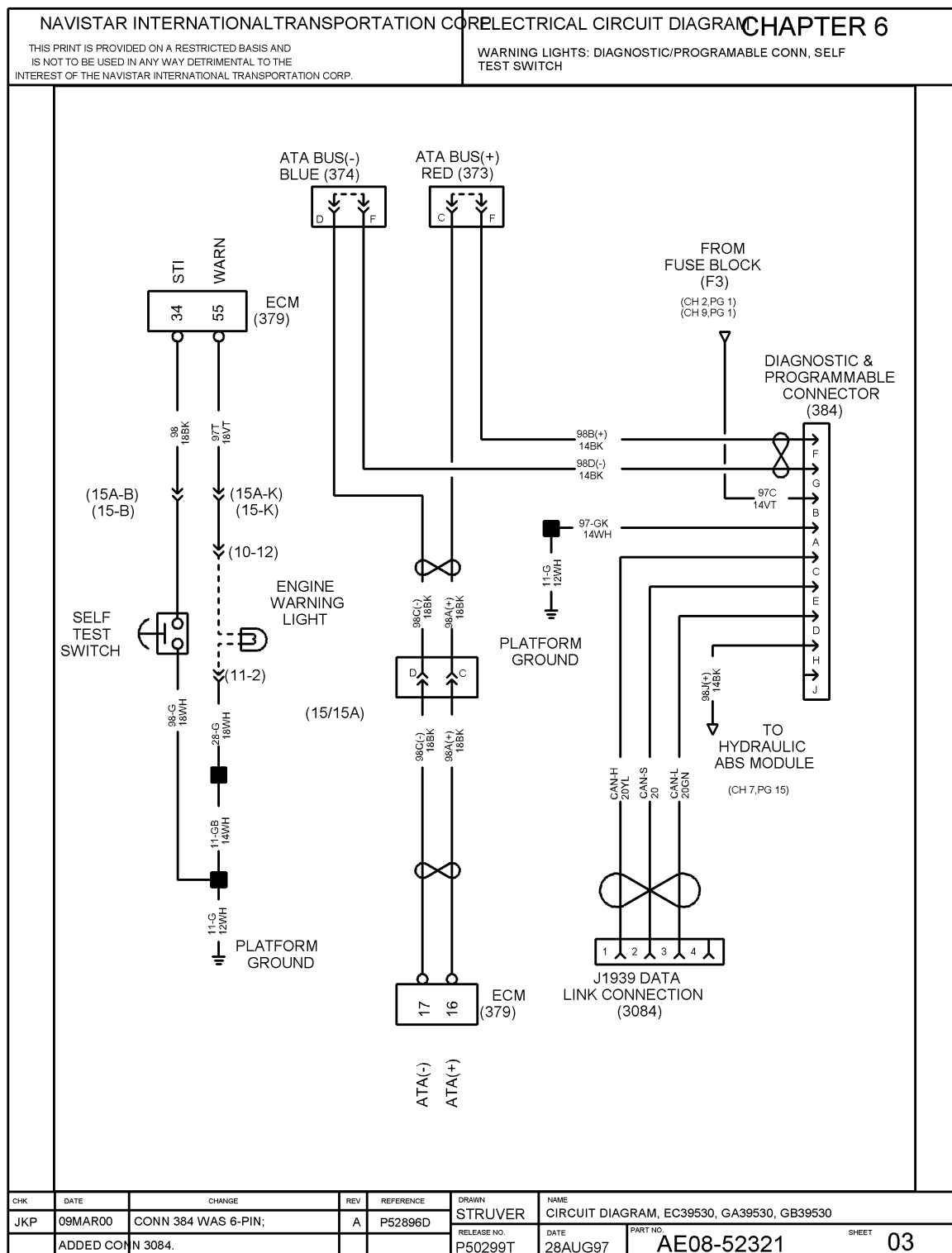


Figure 23 Diagnostic/Programming Connector and Self-Test Switch and Warning Light Systems

Parking Brake and Trans. Warning Lights, p. 4

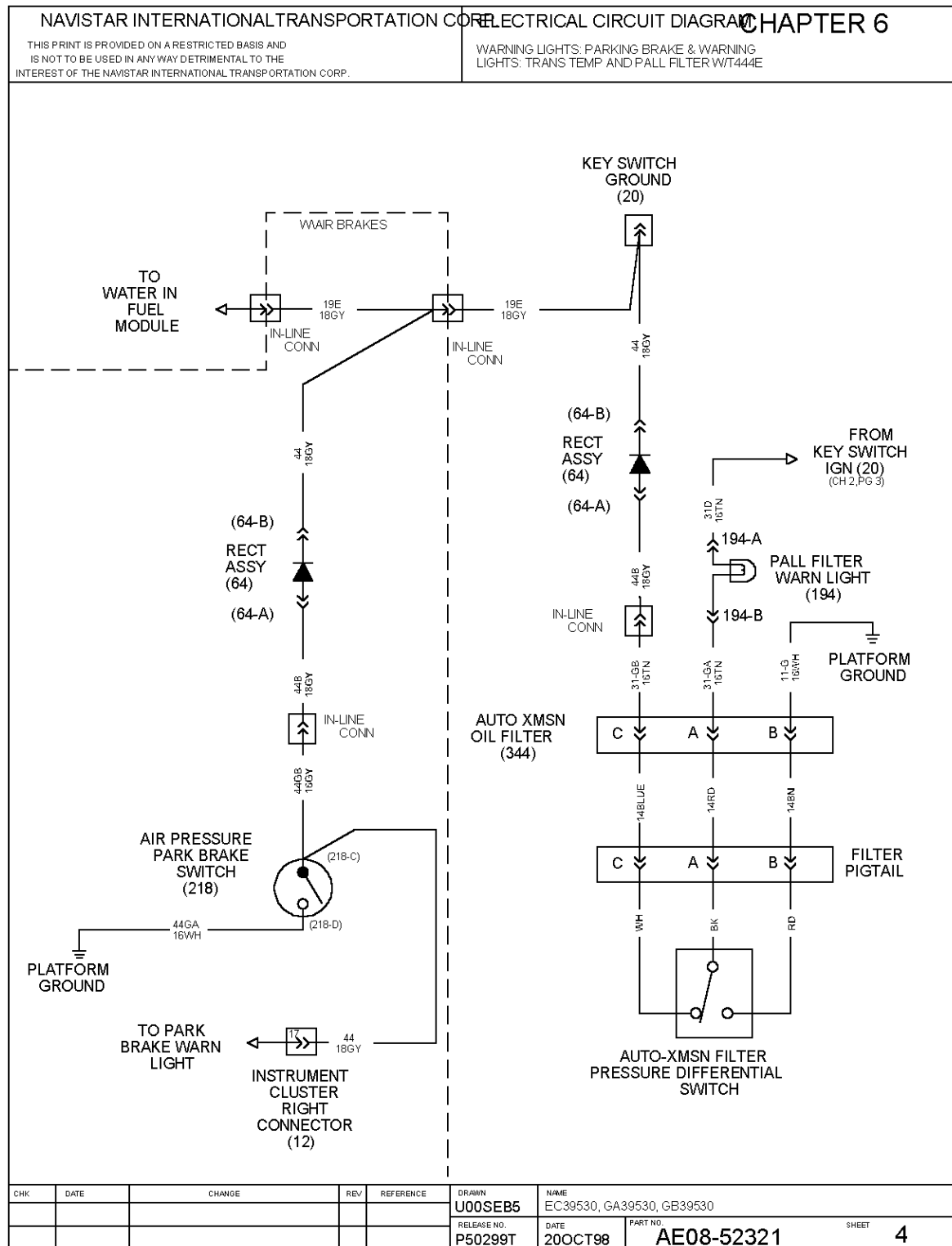


Figure 24 Parking Brake and Trans. Warning Lights

1.7. CHASSIS ACCESSORIES (CHAPTER 7)

Heated Fuel Filter/Water in Fuel, p. 1

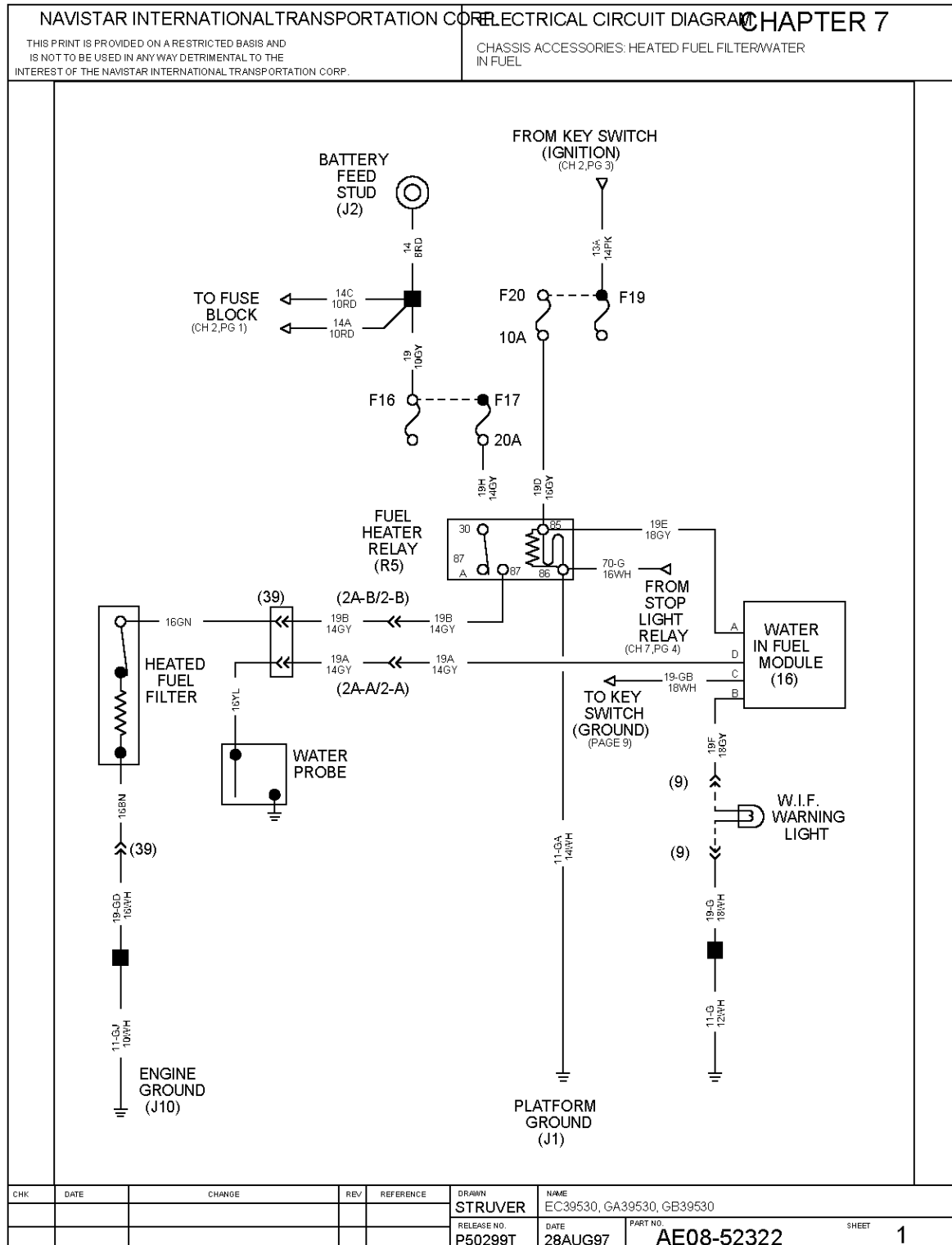


Figure 25 Heated Fuel Filter/Water in Fuel

Air Dryer/Drain Valve, p. 2

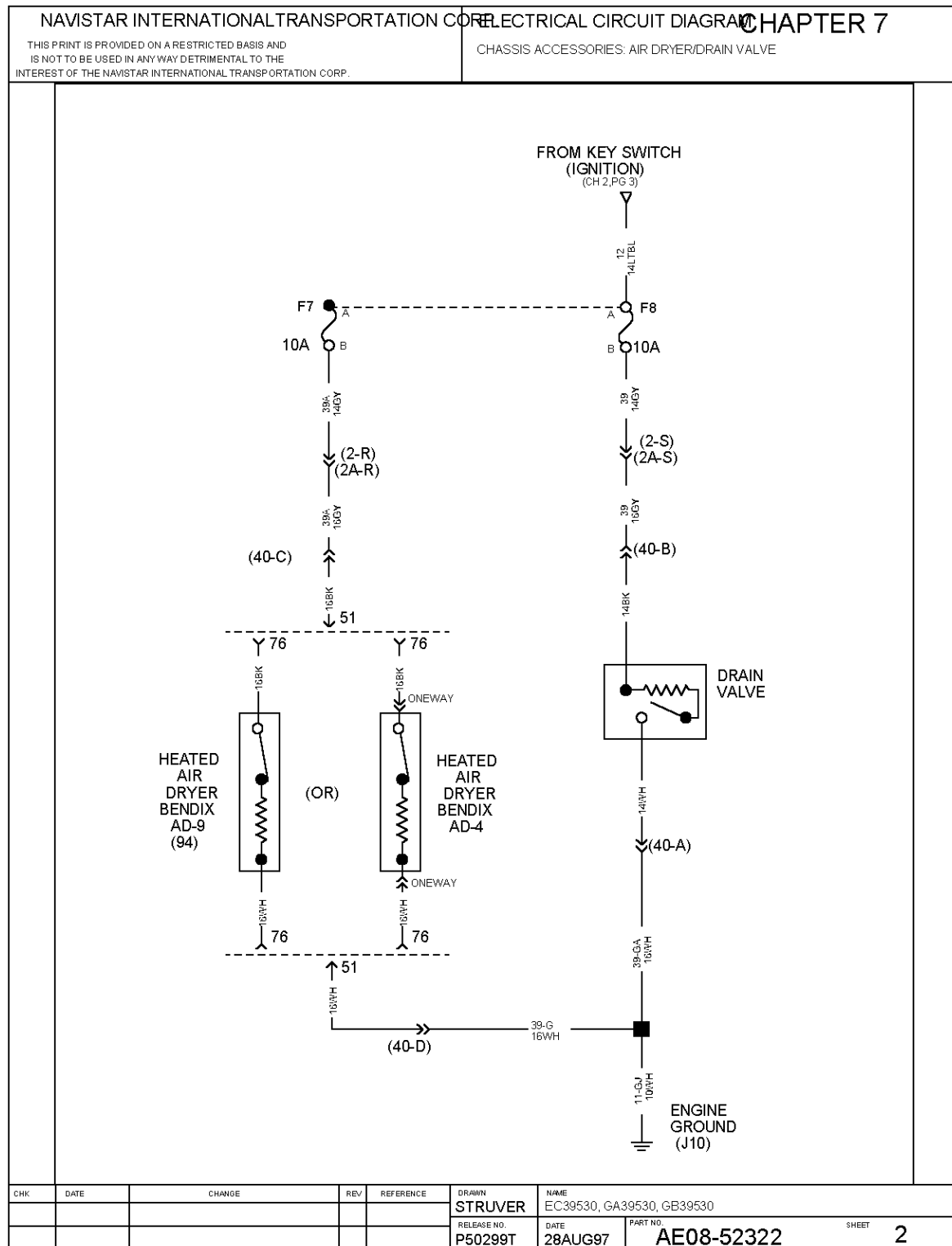


Figure 26 Air Dryer/Drain Valve

Body Builder Connections, p. 3

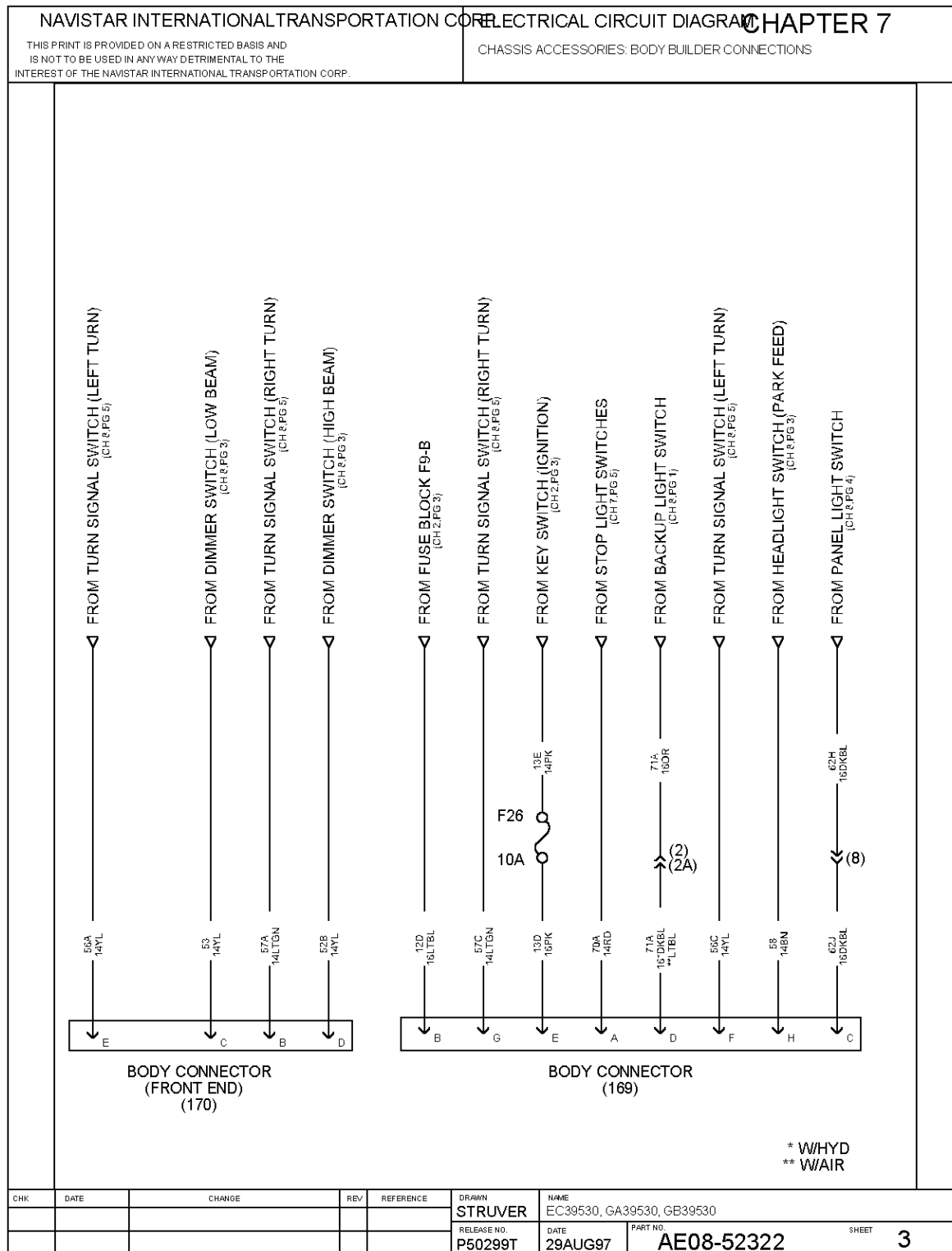
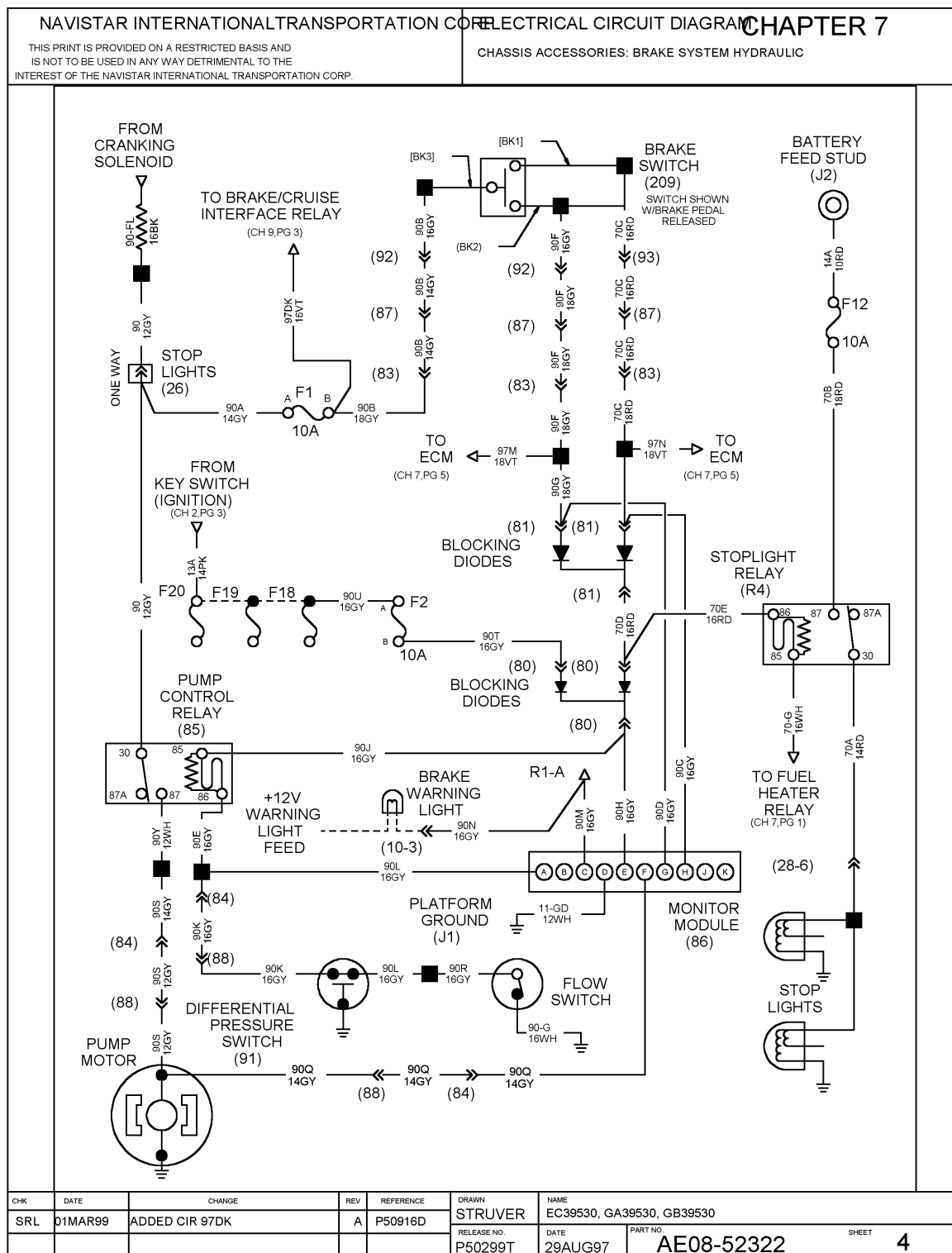


Figure 27 Body Builder Connections

Brake System Hydraulic, p. 4

Figure 28 Brake System Hydraulic

Stoplight Switch (With Air Brake), p. 5

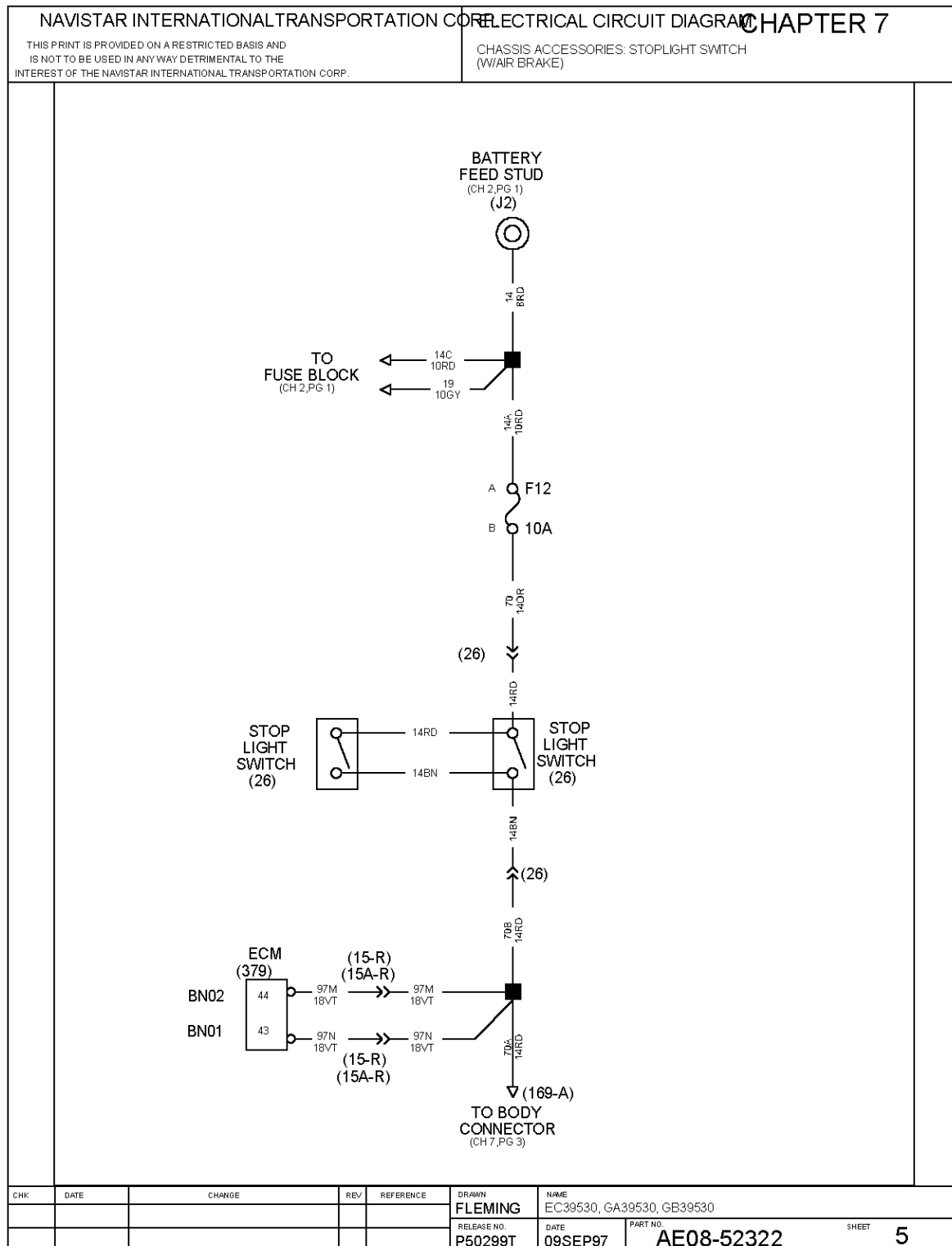


Figure 29 Stoplight Switch (With Air Brake)

NAVISTAR INTERNATIONAL TRANSPORTATION CORPORATION ELECTRICAL CIRCUIT DIAGRAM CHAPTER 7



Antilock Brakes (4-Channel) With AT, MT, With TEC III Allison Trans., p. 7

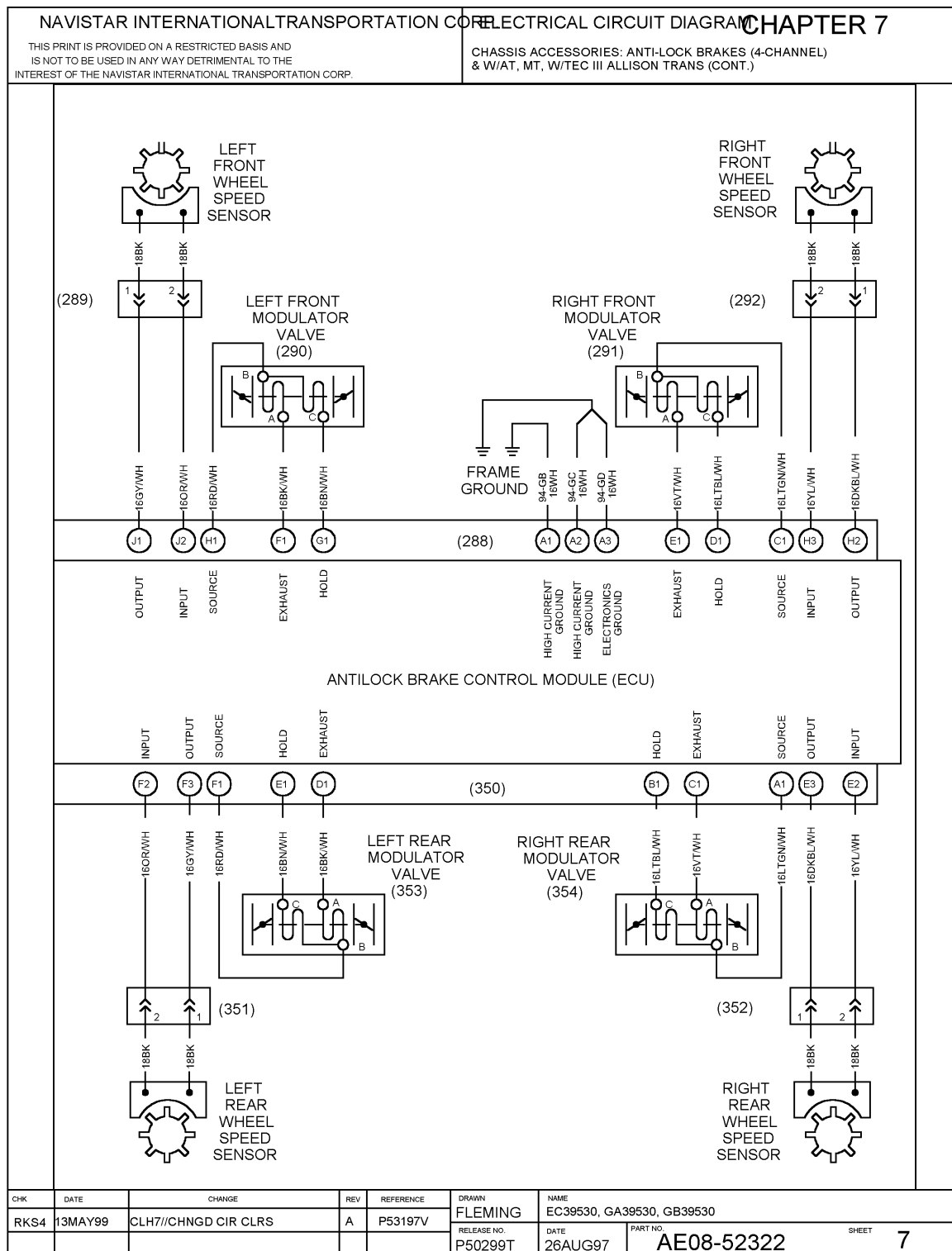


Figure 31 Antilock Brakes (4-Channel) With AT, MT, With TEC III Allison Trans.

Allison AT/MT Automatic Transmission System, p. 8

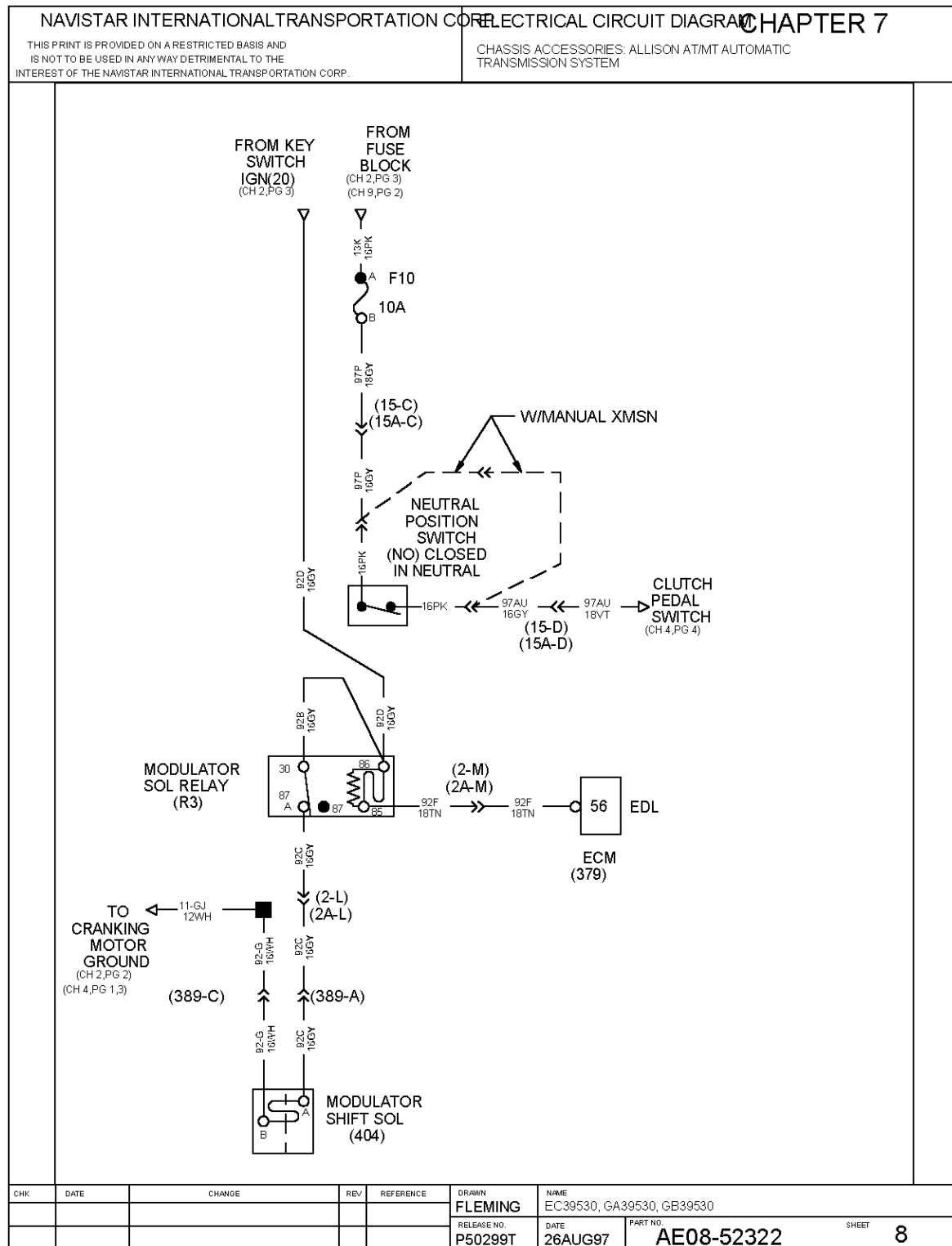


Figure 32 Allison AT/MT Automatic Transmission System

Allison With TEC III Transmission With CEC I6 HEUI, p. 9

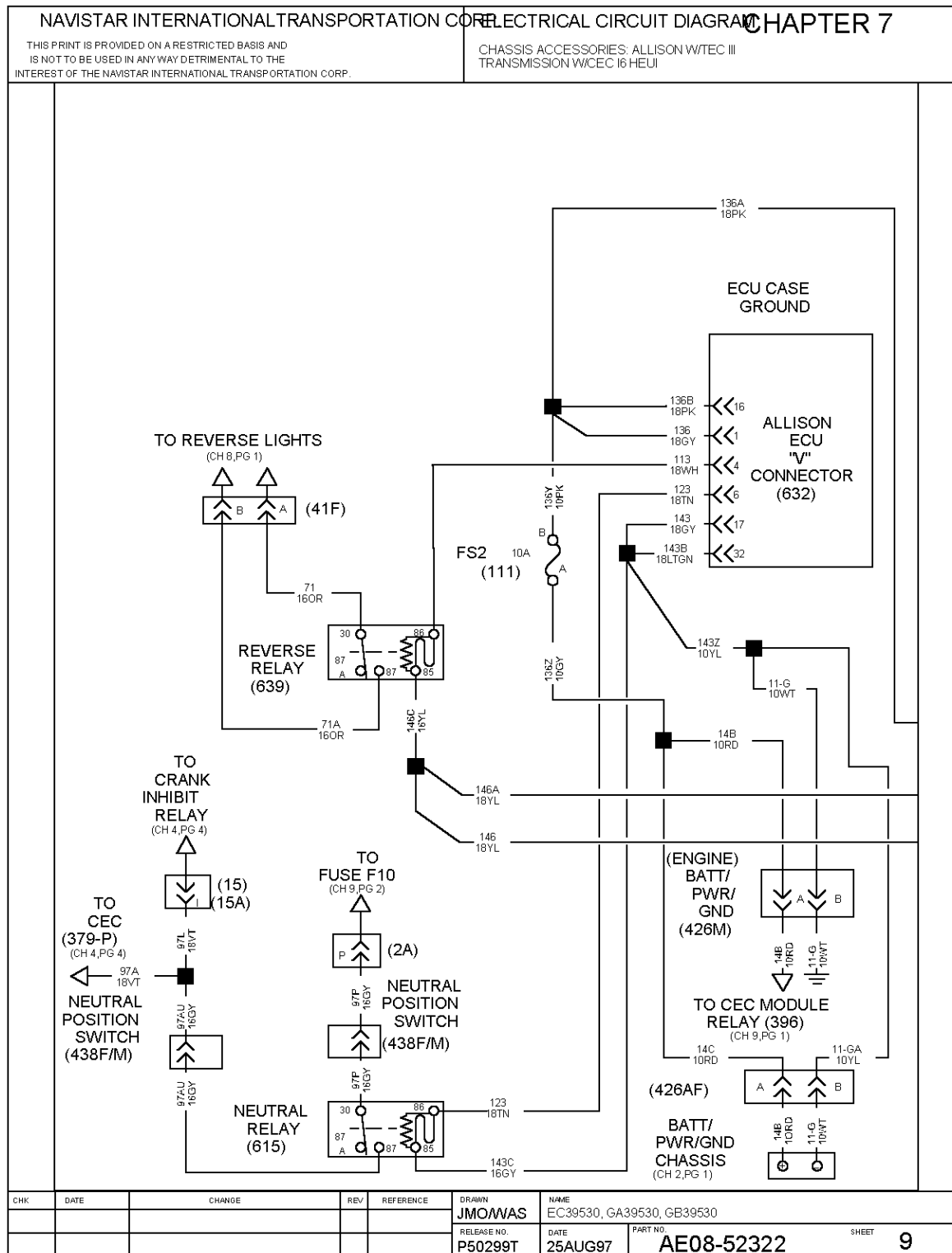


Figure 33 Allison With TEC III Transmission With CEC I6 HEUI

NAVISTAR INTERNATIONAL TRANSPORTATION CORPORATION ELECTRICAL CIRCUIT DIAGRAM CHAPTER 7

CHASSIS ACCESSORIES: ALLISON W/TEC III TRANS
ELECTRONIC W/CEC 16 (CONT.)

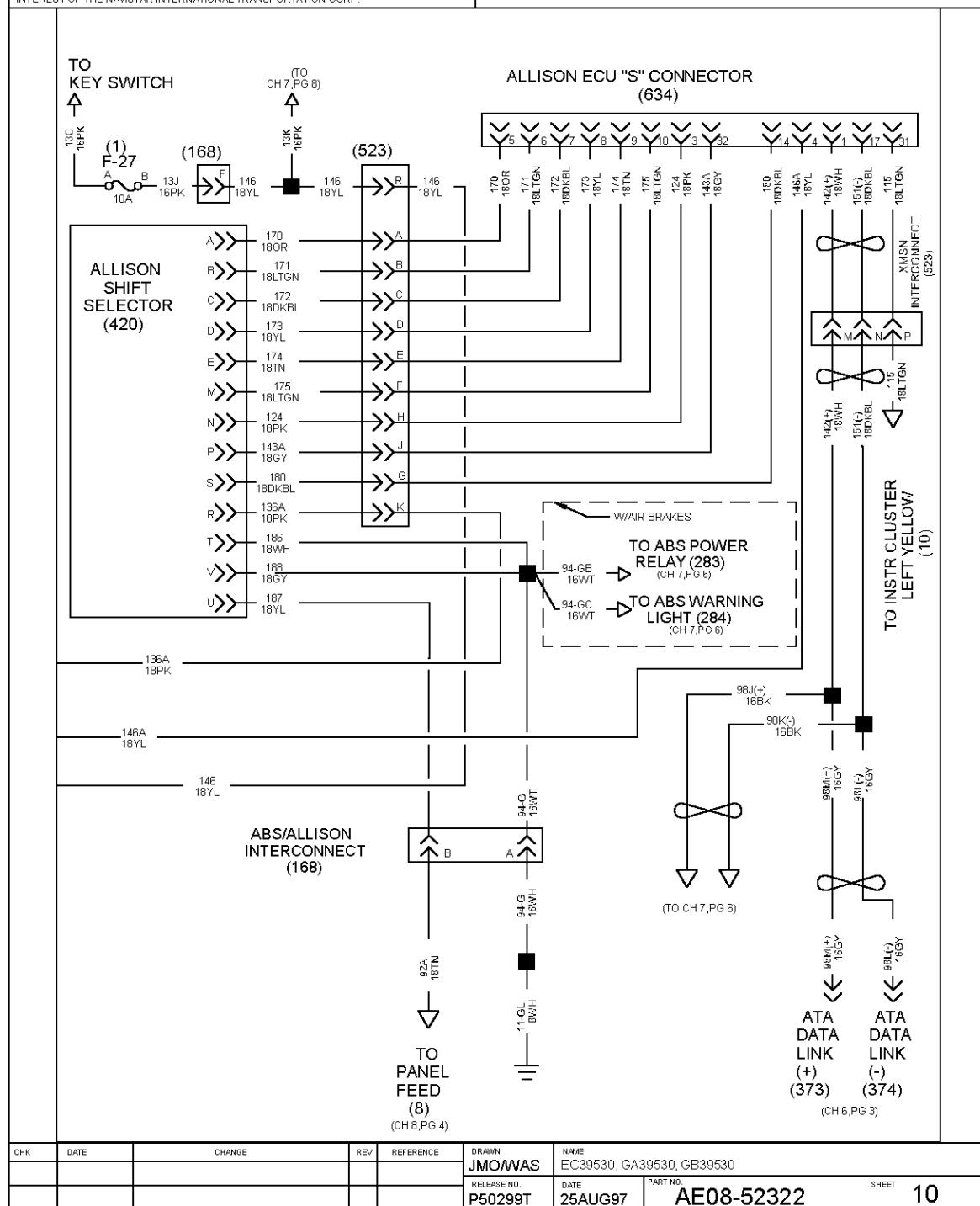


Figure 34 Allison With TEC III Transmission With CEC I6 HEUI (Cont.)

Allison With TEC III Automatic Transmission, p. 11

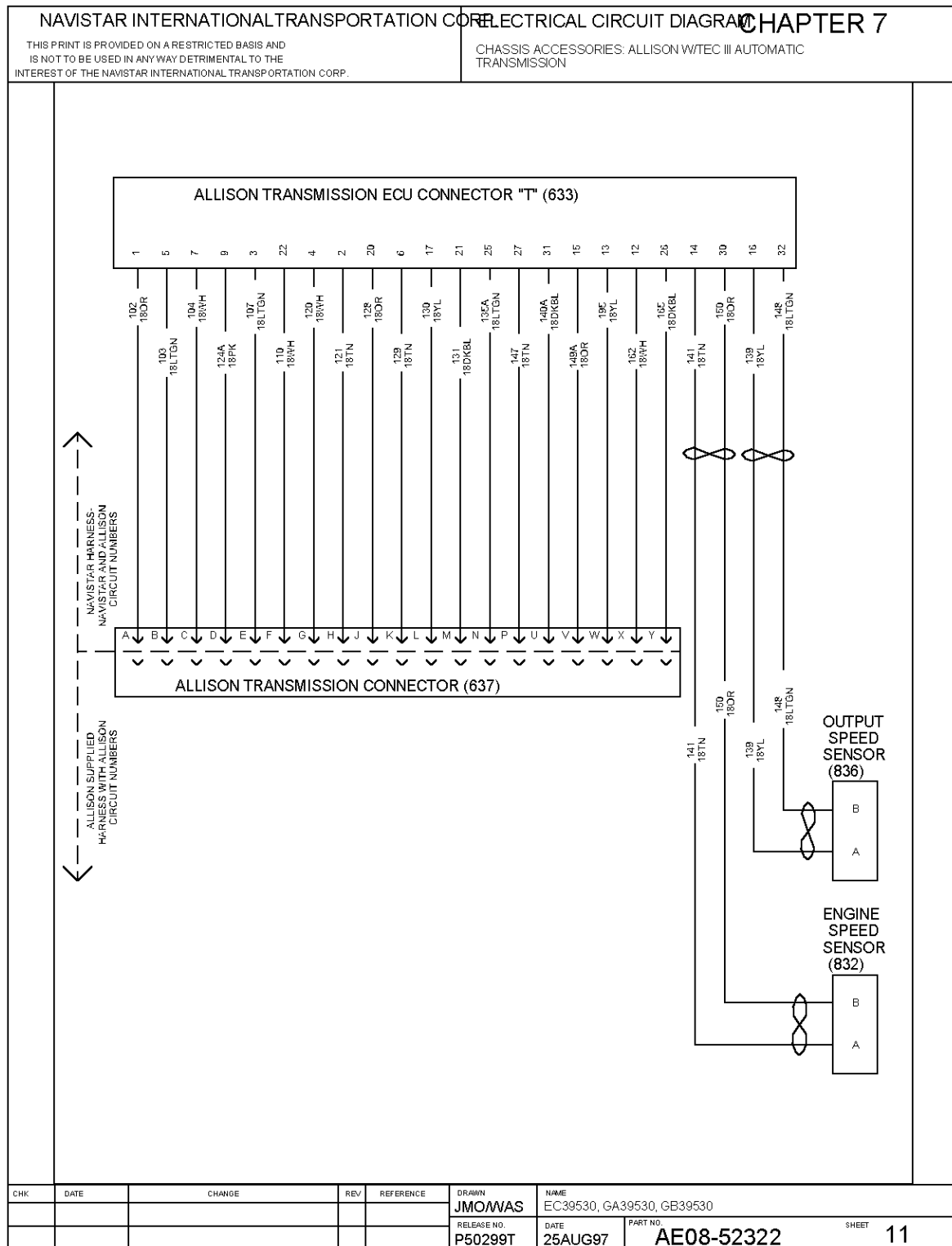
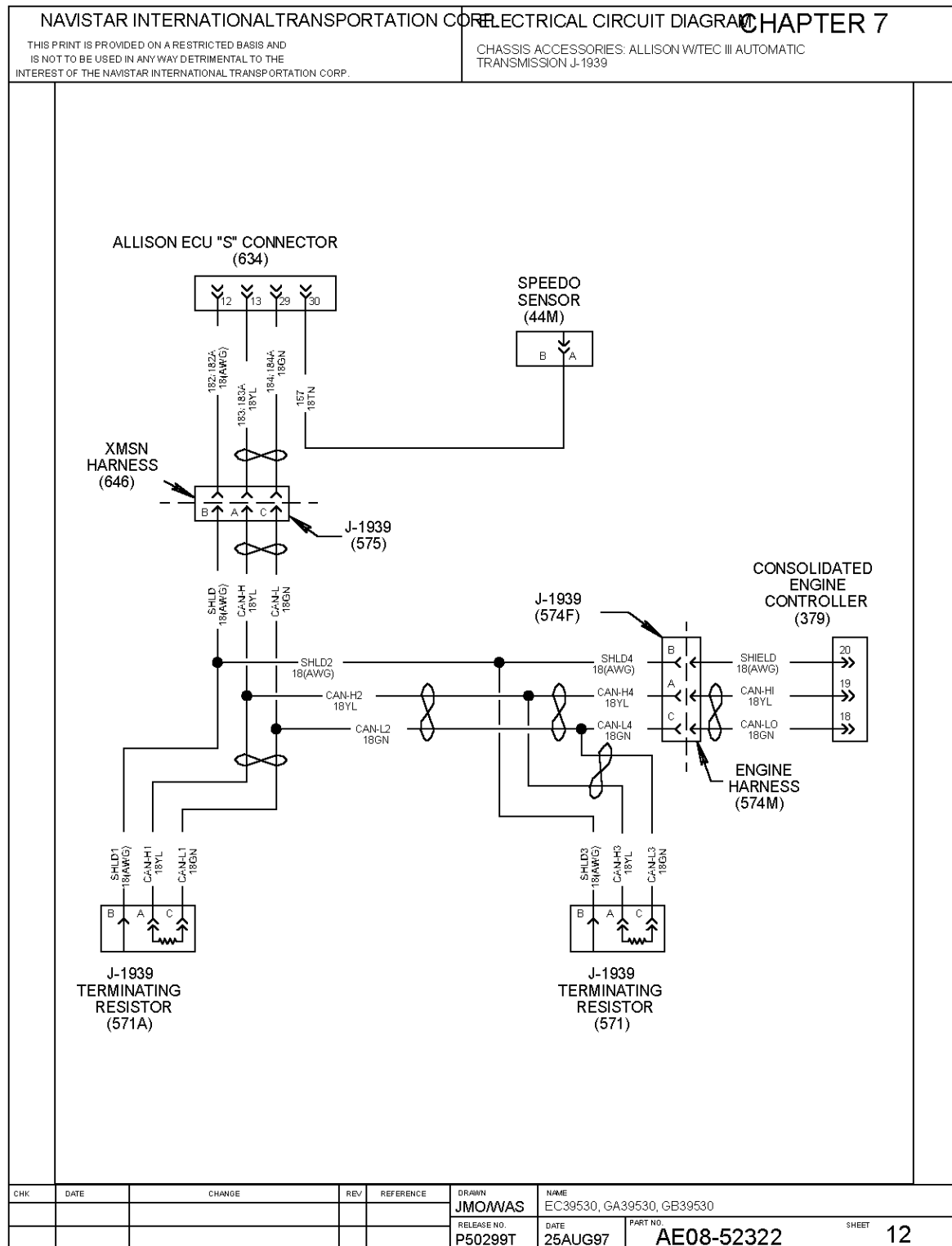


Figure 35 Allison With TEC III Automatic Transmission

Allison With TEC III Automatic Transmission — J-1939, p. 12

Figure 36 Allison With TEC III Automatic Transmission — J-1939

Allison With TEC III Automatic Transmission (Electronic) Spare Input/Outputs, p. 13

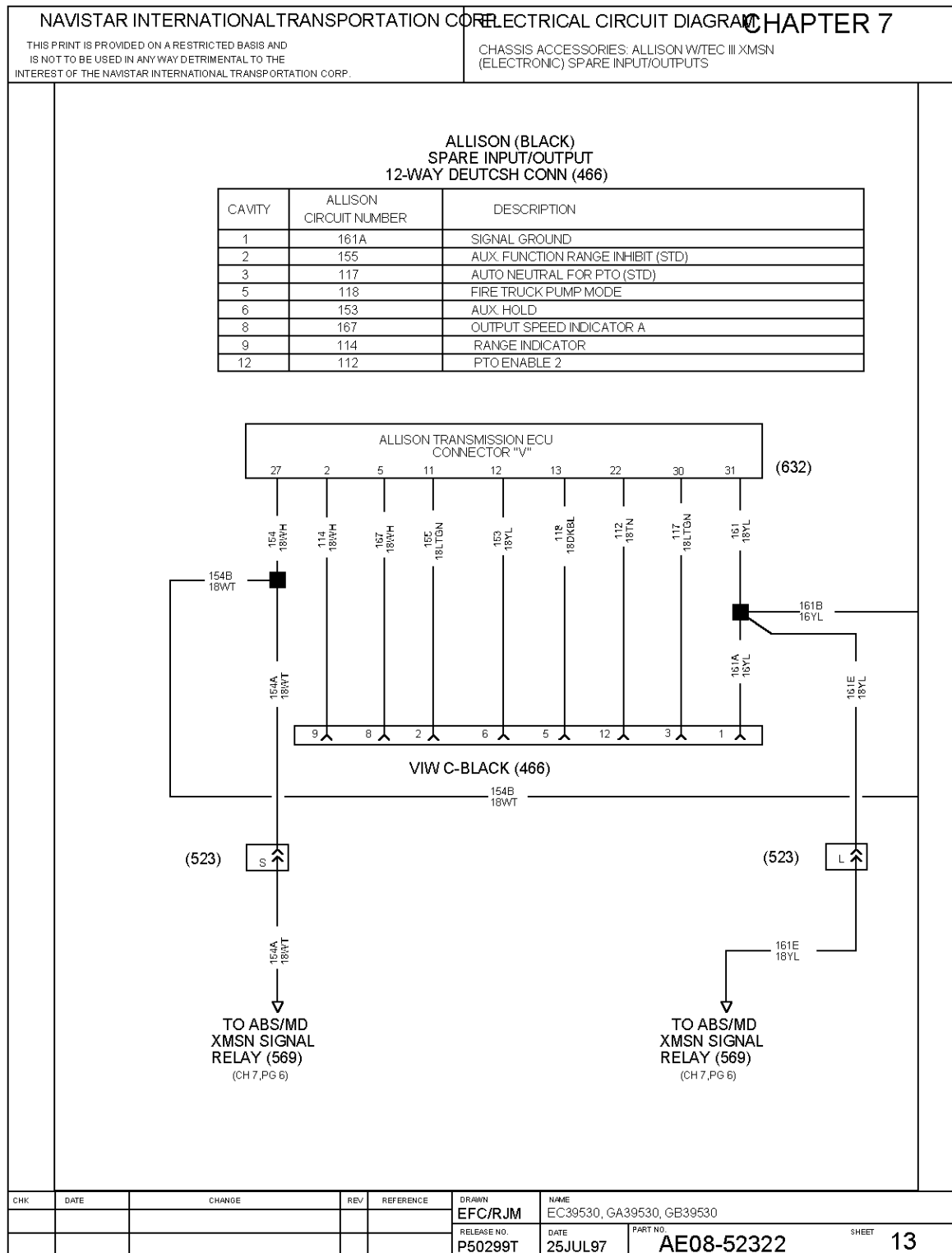


Figure 37 Allison With TEC III Automatic Transmission (Electronic) Spare Input/Outputs

Allison With TEC III Automatic Transmission (Electronic) Spare Input/Outputs (Cont.), p. 14

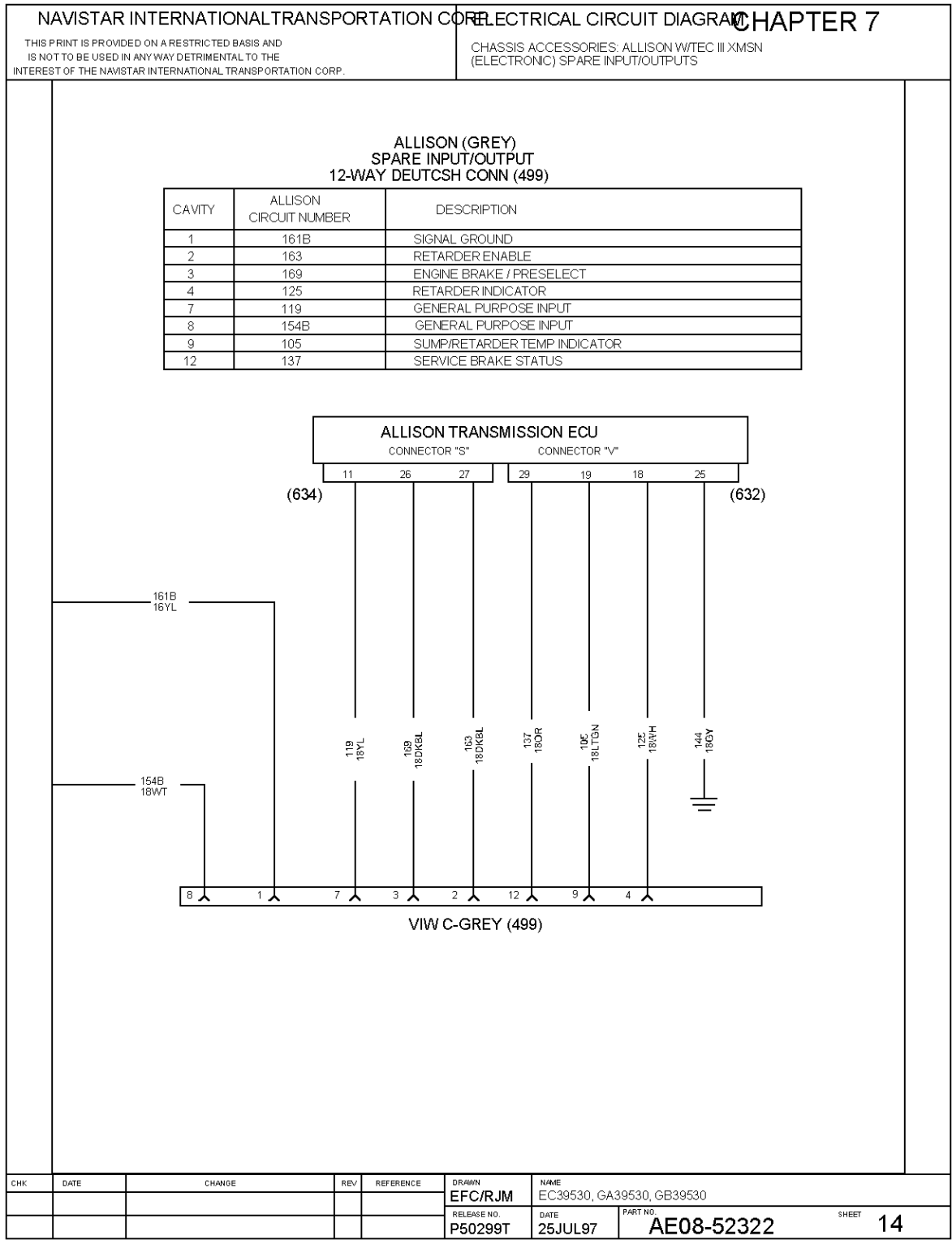


Figure 38 Allison With TEC III Automatic Transmission (Electronic) Spare Input/Outputs (Cont.)

Antilock Brake System — Hydraulic, p. 15

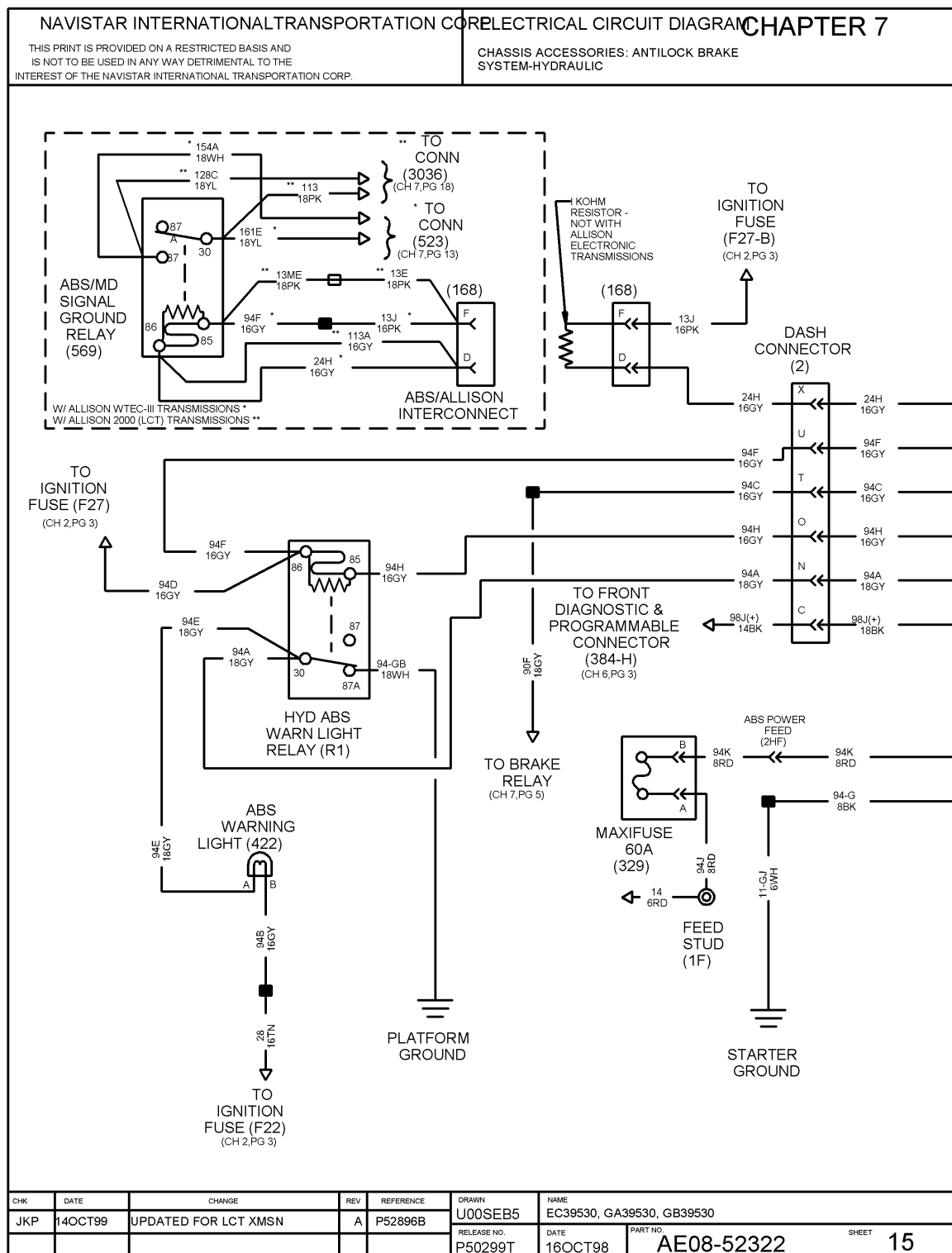


Figure 39 Antilock Brake System — Hydraulic

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ELECTRICAL CIRCUIT DIAGRAM CHAPTER 7

CHASSIS ACCESSORIES: ANTILOCK BRAKE SYSTEM-HYDRAULIC Continued

HYDRAULIC ANTILOCK BRAKE CONTROL MODULE (ECU)

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	RELEASE NO.	DATE	PART NO.	SHEET
					U00SEB5	EC39530, GA39530, GB39530	P50299T	19OCT98	AE08-52322	16

Figure 40 Antilock Brake System — Hydraulic (Cont.)

Antilock Brakes (4-Channel) W/CEC I6 and W/Air Brakes W/Allison 2000 Xmsn, p. 17

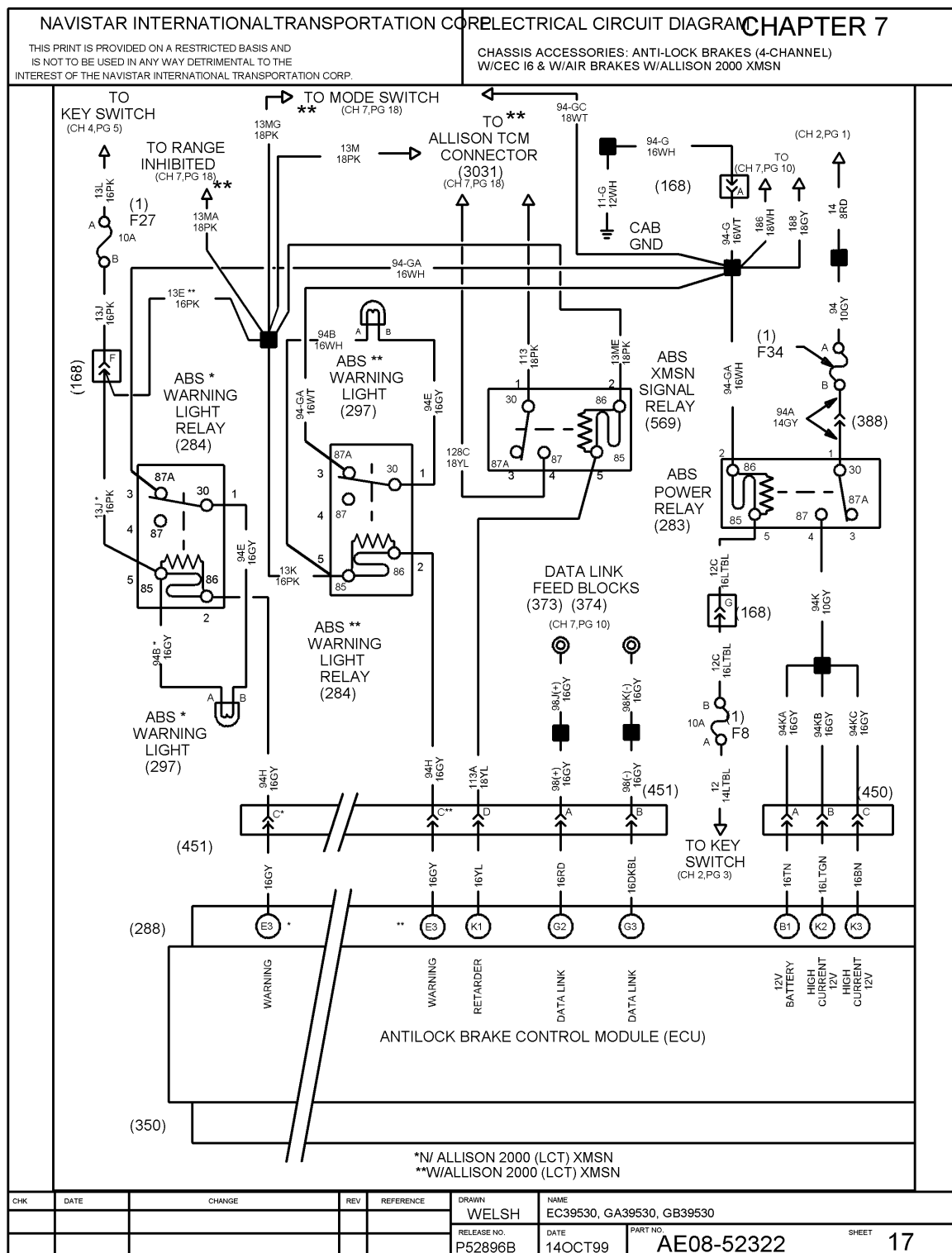
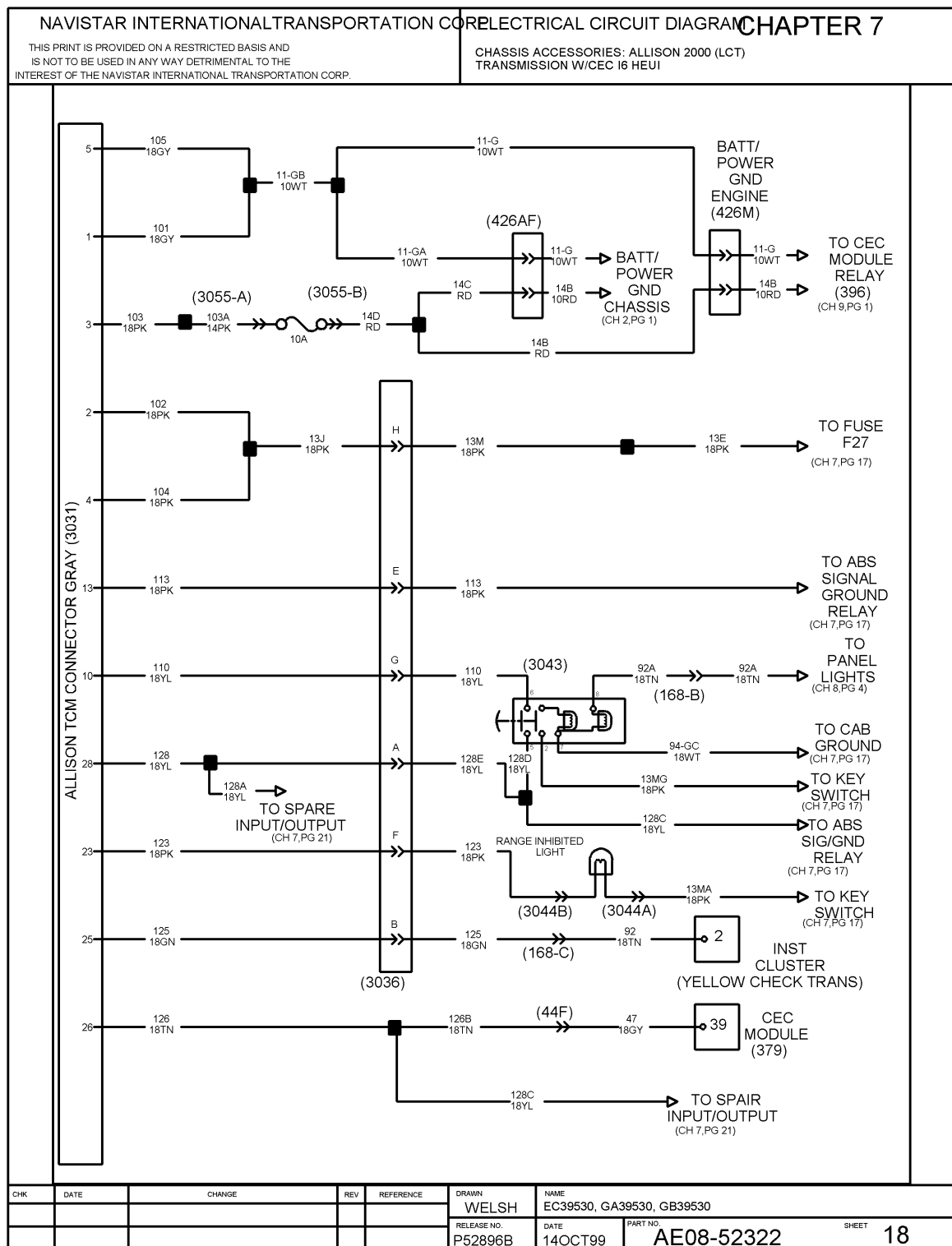


Figure 41 Antilock Brakes (4-Channel) W/CEC I6 and W/Air Brakes W/Allison 2000 Xmsn

Allison 2000 (LCT) Transmission W/CEC I6 HEUI, p. 18

Figure 42 Allison 2000 (LCT) Transmission W/CEC I6 HEUI

Allison 2000 (LCT) Transmission W/CEC I6 HEUI, p. 19

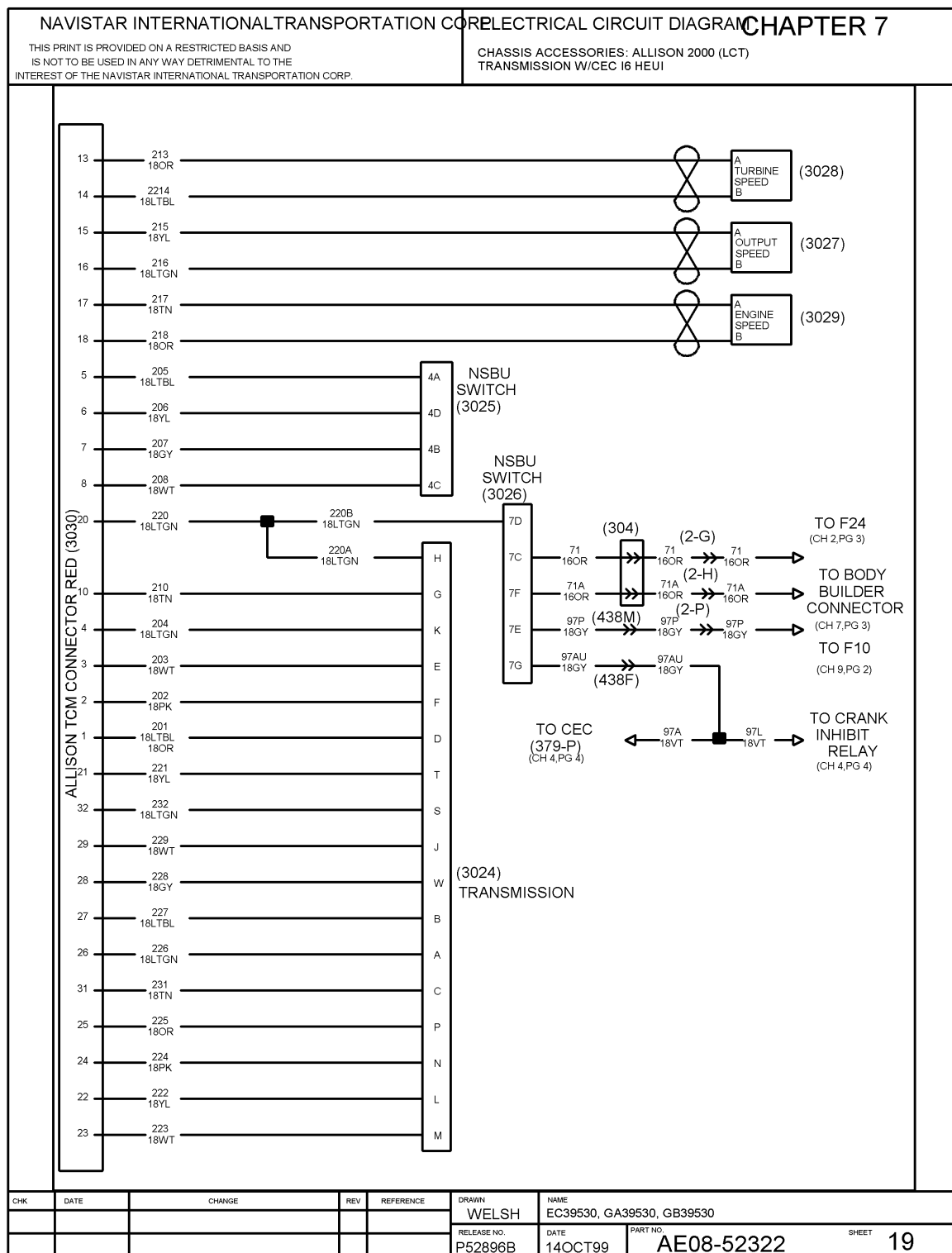


Figure 43 Allison 2000 (LCT) Transmission W/CEC I6 HEUI

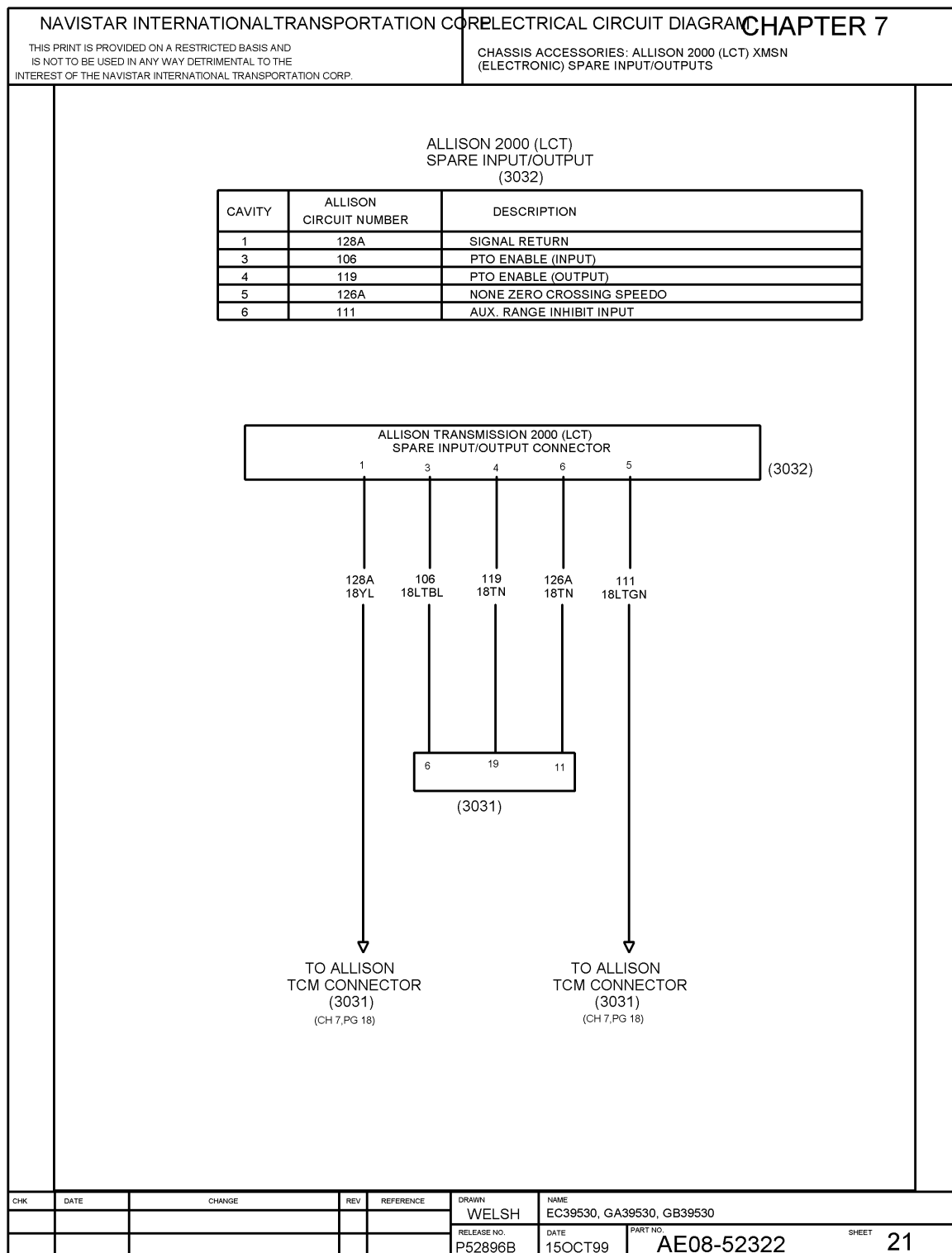
NAVISTAR INTERNATIONAL TRANSPORTATION CORPORATION ELECTRICAL CIRCUIT DIAGRAM CHAPTER 7

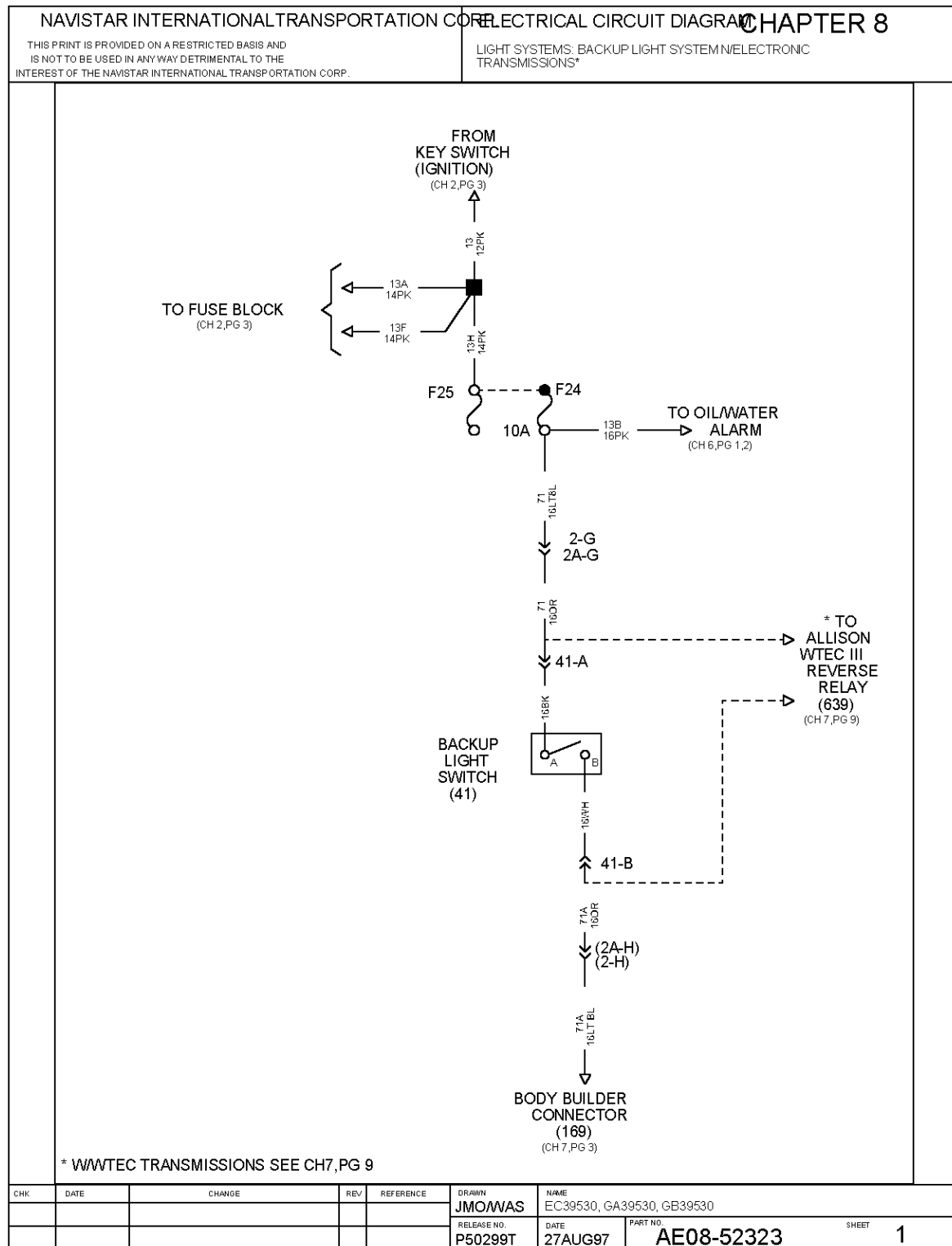
CHASSIS ACCESSORIES: ALLISON 2000 (LCT)
TRANSMISSION J-1939



s08208Y

Allison 2000 (LCT) Transmission (Electronic) Spare Input/Outputs, p. 21



1.8. LIGHT SYSTEMS (CHAPTER 8)**Back-Up Light System N/Electronic Transmissions, p. 1****Figure 46 Back-Up Light System N/Electronic Transmissions**

NAVISTAR INTERNATIONAL TRANSPORTATION CORPORATION

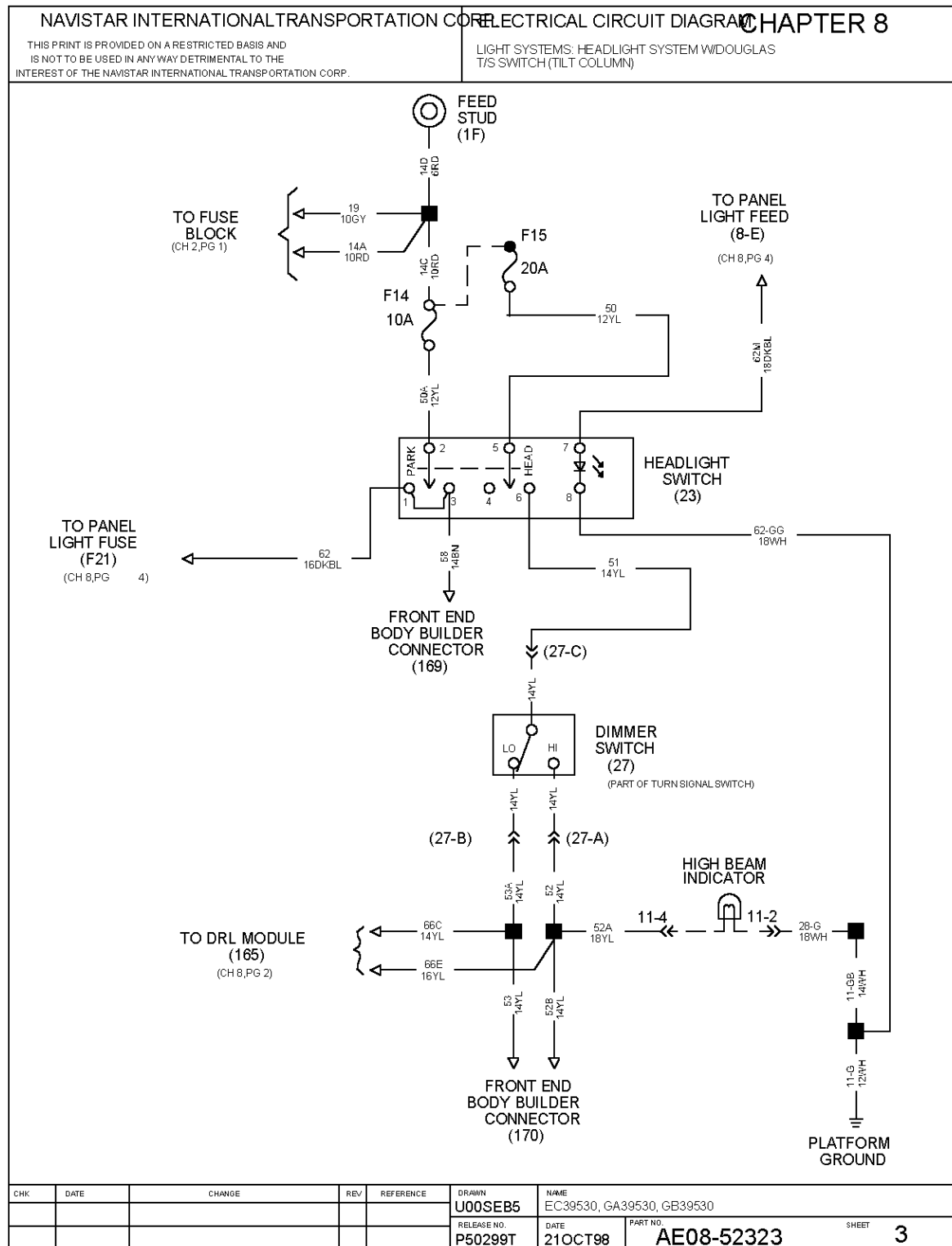
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CHAPTER 8

LIGHT SYSTEMS: DAYTIME RUNNING LIGHTS (USA)

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	PART NO.	SHEET
					JMOWAS	EC39530, GA39530, GB39530		
					RELEASE NO.	DATE		
					P50299T	27AUG97	AE08-52323	2

Figure 47 Daytime Running Lights (USA)

Headlight System With Douglas Turn Signal Switch (Tilt Column), p. 3

Figure 48 Headlight System With Douglas Turn Signal Switch (Tilt Column)

Panel Lights, p. 4

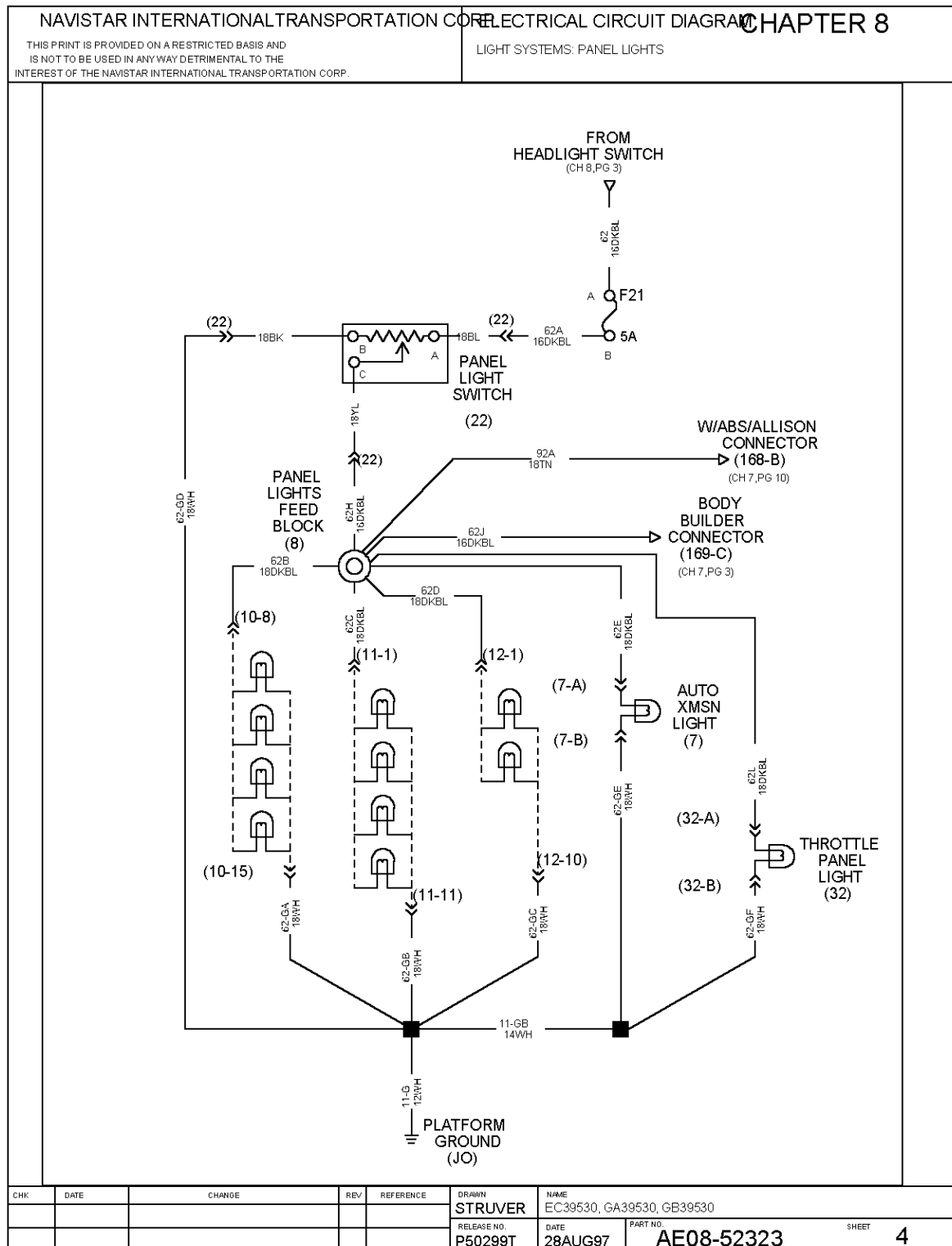


Figure 49 Panel Lights

Turn Signal System, p. 5

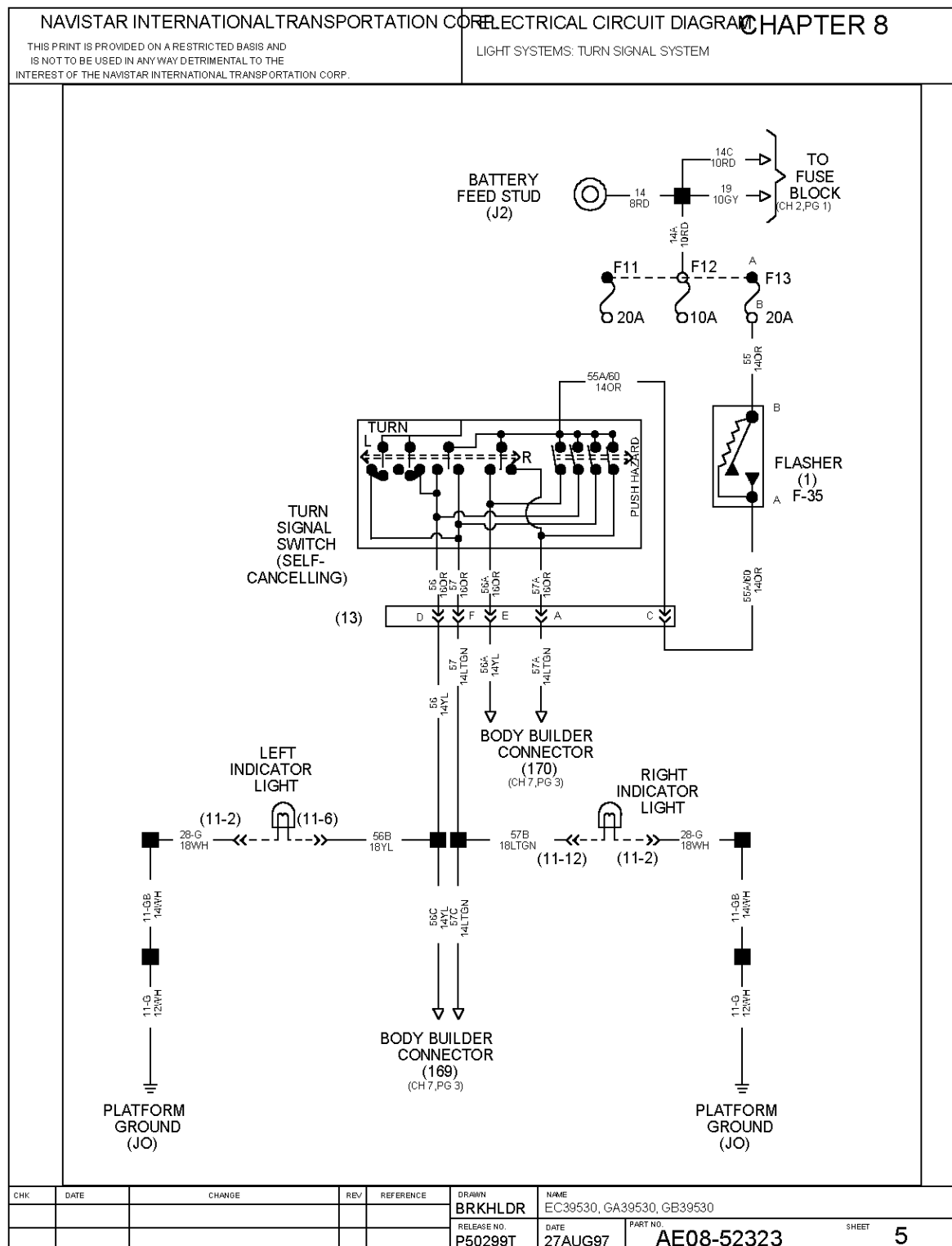


Figure 50 Turn Signal System

1.9. ELECTRONIC CONTROLS (CHAPTER 9)

ECM Power and Ground System With I6 HEUI/CEC, p. 1

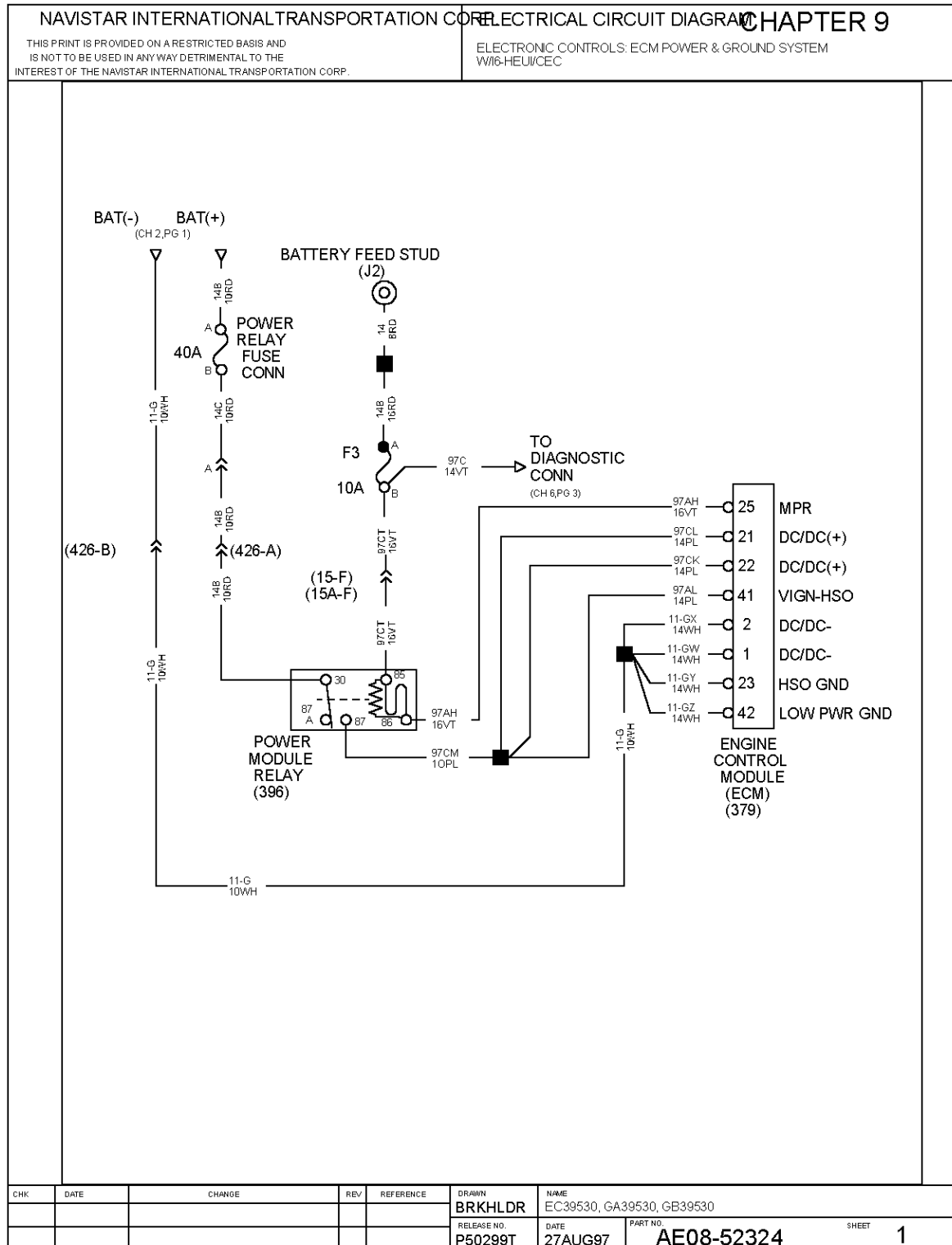
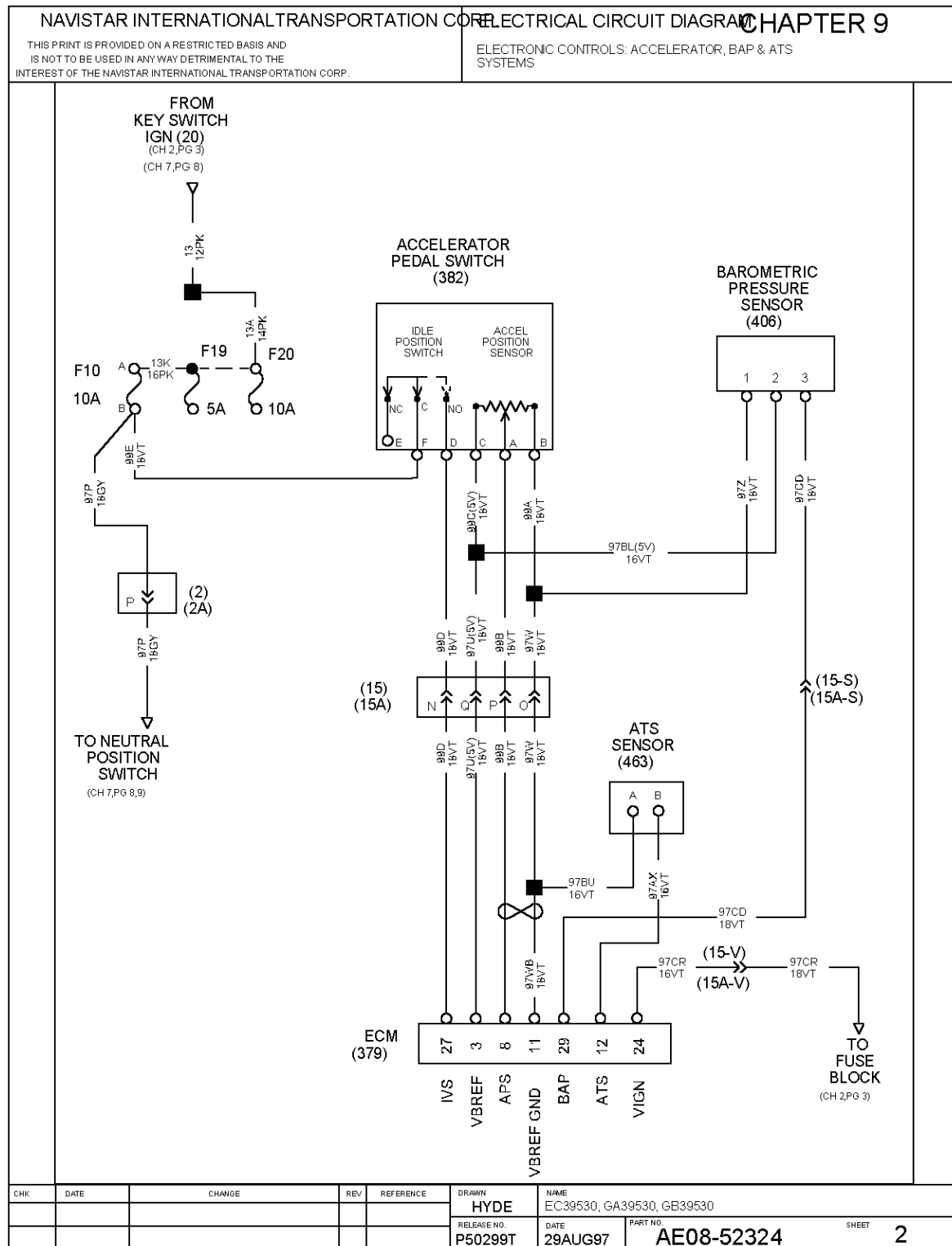


Figure 51 ECM Power and Ground System With I6 HEUI/CEC

Accelerator, BAP and ATS Systems, p. 2

Figure 52 Accelerator, BAP and ATS Systems

Cruise Control and Electronic Hand Throttle System, p. 3

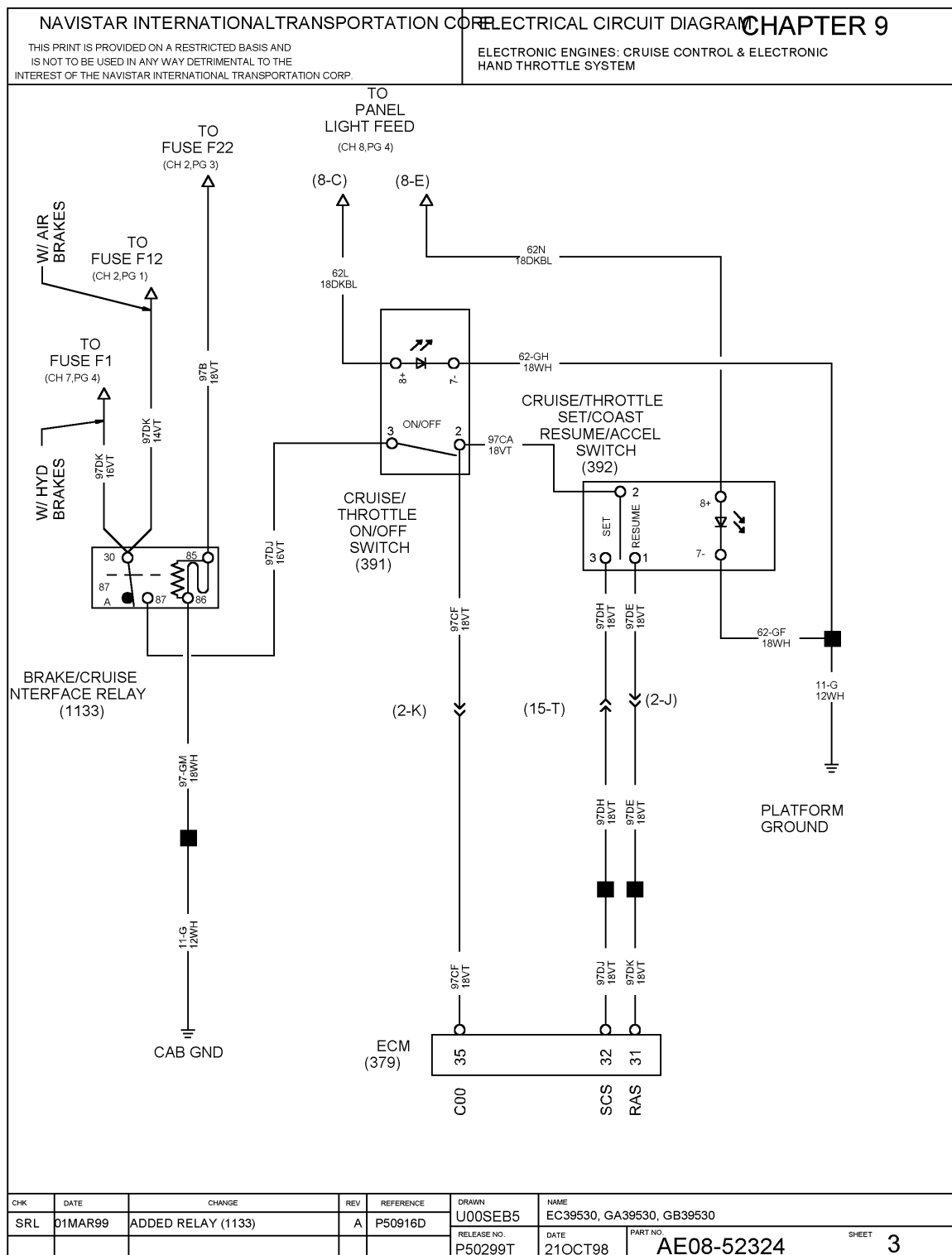


Figure 53 Cruise Control and Electronic Hand Throttle System

1.10. CONNECTOR COMPOSITES (CHAPTER 10)

Junction Points — J1, J2, J3, J5, J6, J7, J8, J10

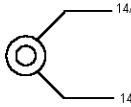
NAVISTAR INTERNATIONAL TRANSPORTATION CORP.				ELECTRICAL CIRCUIT DIAGRAM CHAPTER 10			
THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE NAVISTAR INTERNATIONAL TRANSPORTATION CORP.				CONNECTOR BODY COMPOSITES: JUNCTION POINTS			
J1 - PLATFORM GROUND  11-G/11-GA/66GA/66-G/85-G LOCATED ON LOWER LEFT BELOW DASH PANEL-CAB SIDE				J6 - GENERATOR GROUND  2-G LOCATED AT GENERATOR			
J2 - BATTERY FEED STUD  14/66F 14 LOCATED ON LOWER LEFT DASH PANEL				J7 - LOW AIR PRESSURE SWITCH  40 LOCATED ON COMPRESSOR			
J3 - CAB GROUND  11-G LOCATED ON LOWER LEFT DASH PANEL-ENGINE SIDE				J8 - CRANKING MOTOR (BATTERY FEED)  17C/RD LOCATED ON CRANK MOTOR SOLENOID BY CRANK MOTOR			
J5 - GENERATOR  2 LOCATED ON GENERATOR				J10 - ENGINE GROUND  11-GJ/11-GH/2-G LOCATED ON STARTER MOTOR GROUND TERMINAL			
CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	
					STRUVER	EC39530, GA39530, GB39530	
					RELEASE NO.	DATE	PART NO.
					P50299T	29AUG97	AE08-52325
SHEET							1

Figure 54 Junction Points — J1, J2, J3, J5, J6, J7, J8, J10

Fuse Block Connections

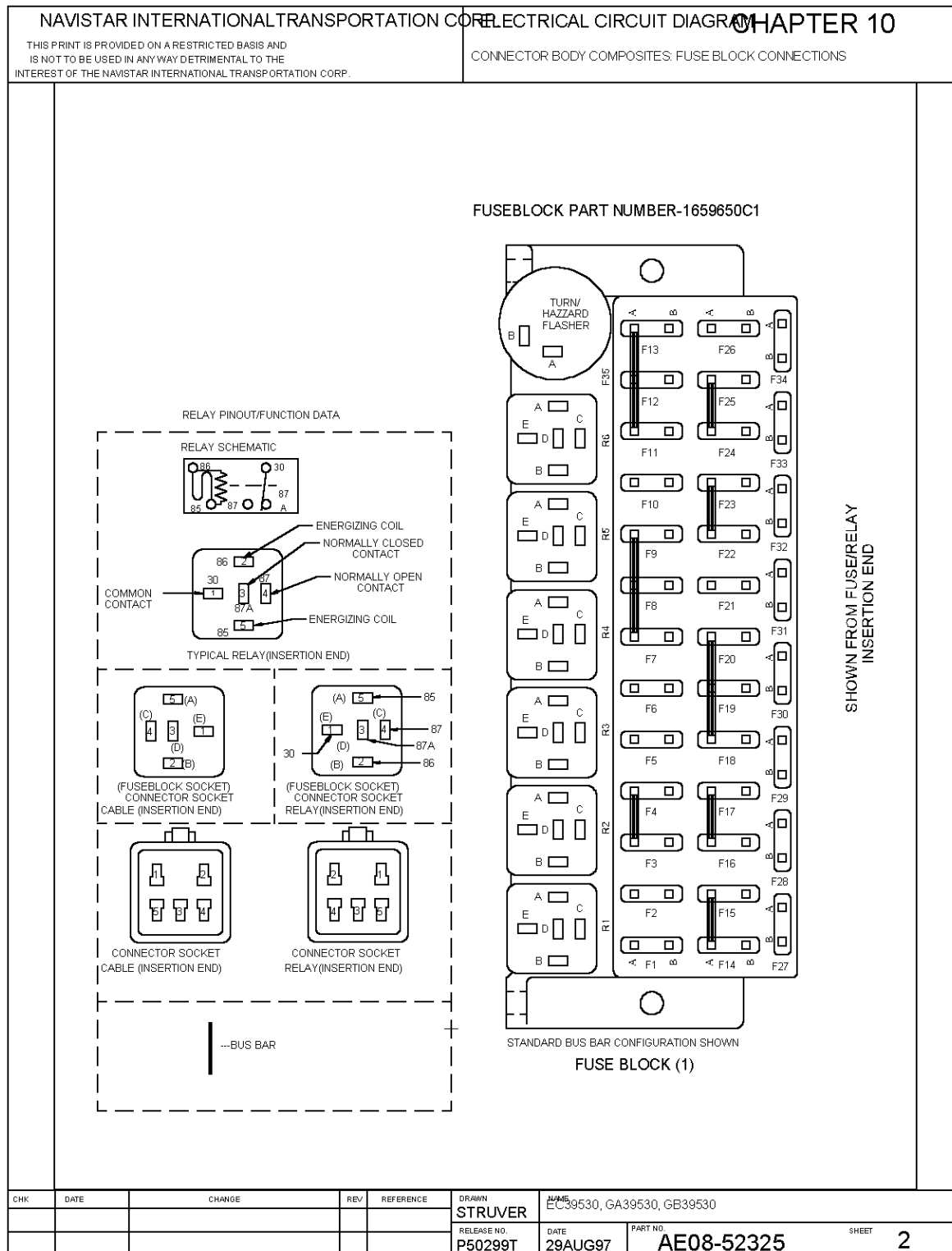


Figure 55 Fuse Block Connections

Fuse Block Connections

NAVISTAR INTERNATIONAL TRANSPORTATION CORPORATION				ELECTRICAL CIRCUIT DIAGRAM CHAPTER 10																																																																							
THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE NAVISTAR INTERNATIONAL TRANSPORTATION CORP.				CONNECTOR BODY COMPOSITES: FUSE BLOCK CONNECTIONS																																																																							
<table border="1"> <thead> <tr> <th colspan="2">RELAYS</th></tr> <tr> <th>CAVITY</th><th>CIRCUIT #</th></tr> </thead> <tbody> <tr><td>R1-A</td><td>94H**</td></tr> <tr><td>R1-B</td><td>94D**</td></tr> <tr><td>R1-C</td><td>94F**</td></tr> <tr><td>R1-D</td><td>94GB**</td></tr> <tr><td>R1-E</td><td>94E**</td></tr> <tr><td>R2-A</td><td>17</td></tr> <tr><td>R2-B</td><td>97H</td></tr> <tr><td>R2-C</td><td>17A</td></tr> <tr><td>R2-D</td><td></td></tr> <tr><td>R2-E</td><td>97L</td></tr> <tr><td>R3-A</td><td>92B</td></tr> <tr><td>R3-B</td><td>92F</td></tr> <tr><td>R3-C</td><td></td></tr> <tr><td>R3-D</td><td>92C</td></tr> <tr><td>R3-E</td><td>92B</td></tr> <tr><td>R4-A</td><td>70G**</td></tr> <tr><td>R4-B</td><td>70E**</td></tr> <tr><td>R4-C</td><td>70B**</td></tr> <tr><td>R4-D</td><td></td></tr> <tr><td>R4-E</td><td>70A**</td></tr> <tr><td>R5-A</td><td>11GA</td></tr> <tr><td>R5-B</td><td>70G**</td></tr> <tr><td>R5-C</td><td>19D</td></tr> <tr><td>R5-D</td><td>19E</td></tr> <tr><td>R5-E</td><td>19B</td></tr> <tr><td>R6-A</td><td>19H</td></tr> <tr><td>R6-B</td><td>85A</td></tr> <tr><td>R6-C</td><td>85</td></tr> <tr><td>R6-D</td><td>85B</td></tr> <tr><td>R6-E</td><td>85C</td></tr> <tr><td>R6-F</td><td>85D</td></tr> <tr><td>R6-G</td><td>85B</td></tr> </tbody> </table>								RELAYS		CAVITY	CIRCUIT #	R1-A	94H**	R1-B	94D**	R1-C	94F**	R1-D	94GB**	R1-E	94E**	R2-A	17	R2-B	97H	R2-C	17A	R2-D		R2-E	97L	R3-A	92B	R3-B	92F	R3-C		R3-D	92C	R3-E	92B	R4-A	70G**	R4-B	70E**	R4-C	70B**	R4-D		R4-E	70A**	R5-A	11GA	R5-B	70G**	R5-C	19D	R5-D	19E	R5-E	19B	R6-A	19H	R6-B	85A	R6-C	85	R6-D	85B	R6-E	85C	R6-F	85D	R6-G	85B
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Figure 56 Fuse Block Connections

Connector Composites (2), (2A), (5)

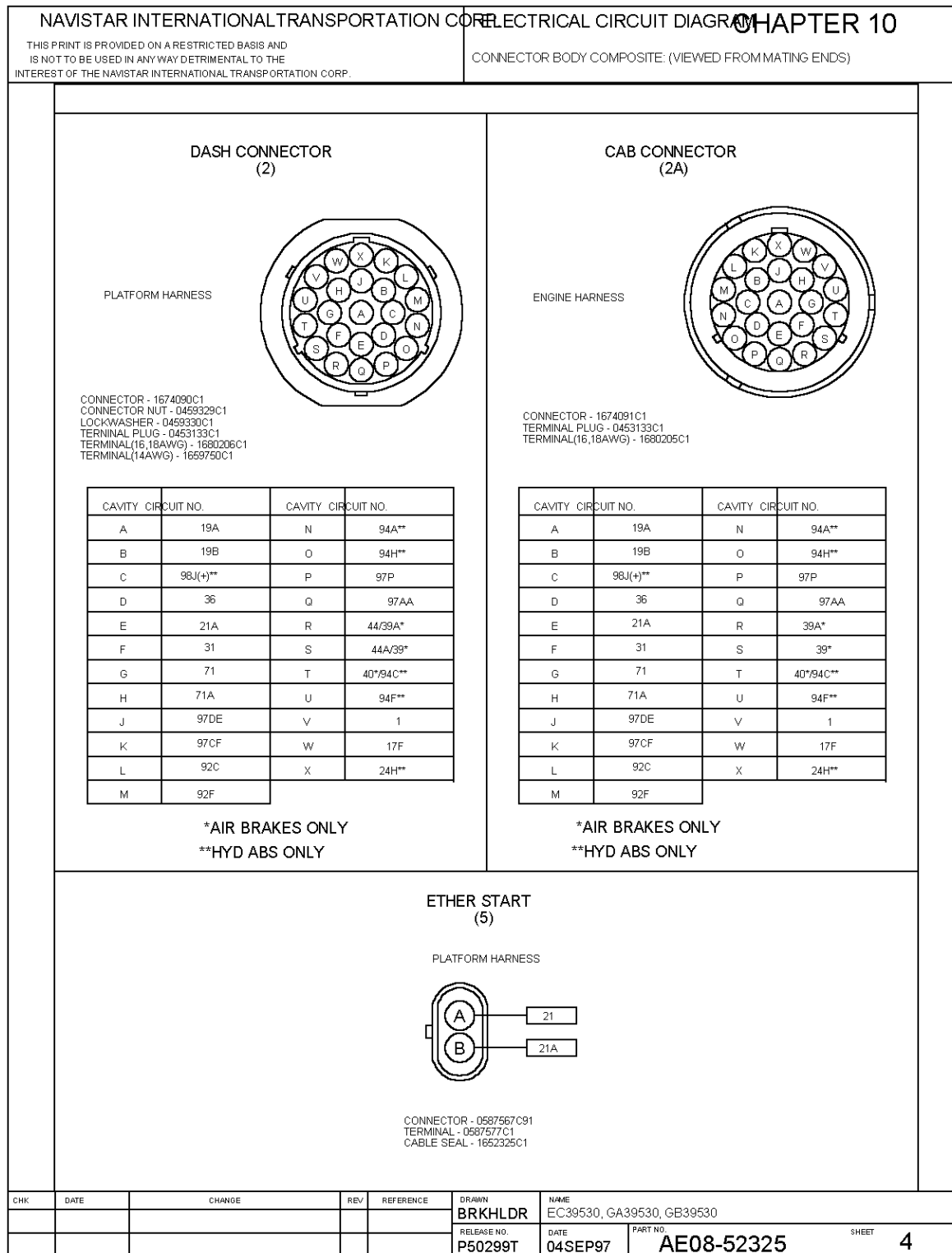
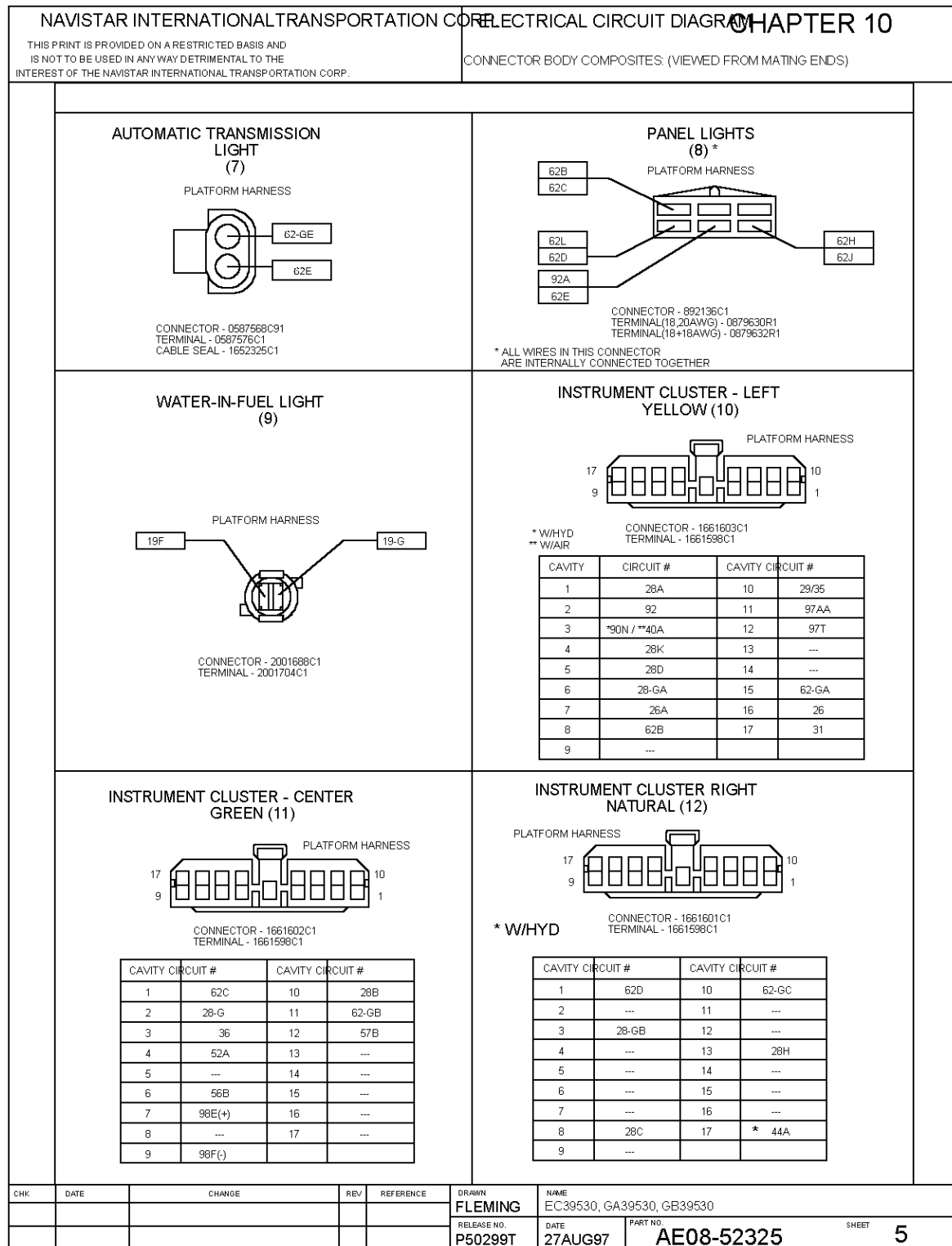


Figure 57 Connector Composites (2), (2A), (5)

Connector Composites (7), (8), (9), (10), (11), (12)

Figure 58 Connector Composites (7), (8), (9), (10), (11), (12)

Connector Composites (13), (15), (15A)

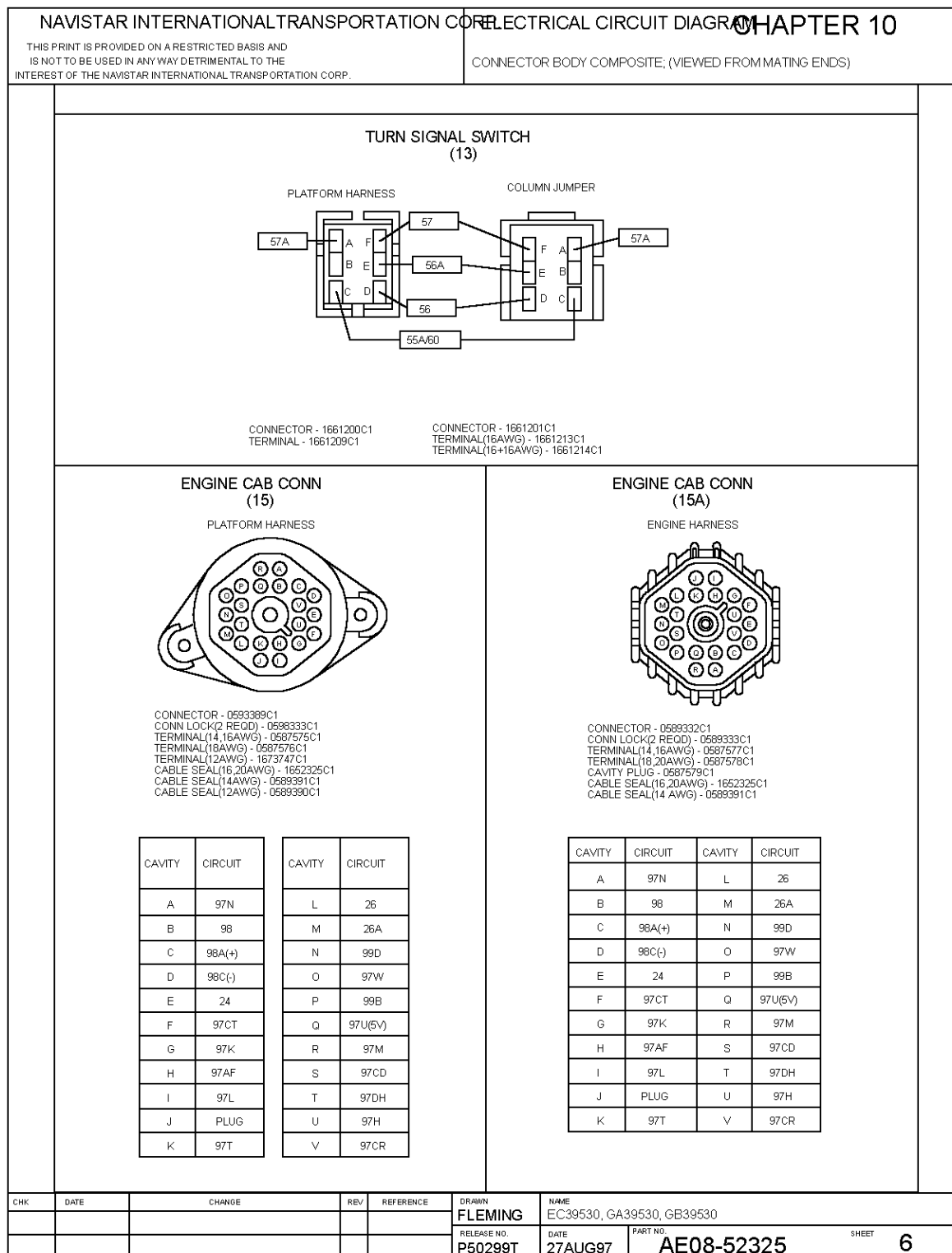
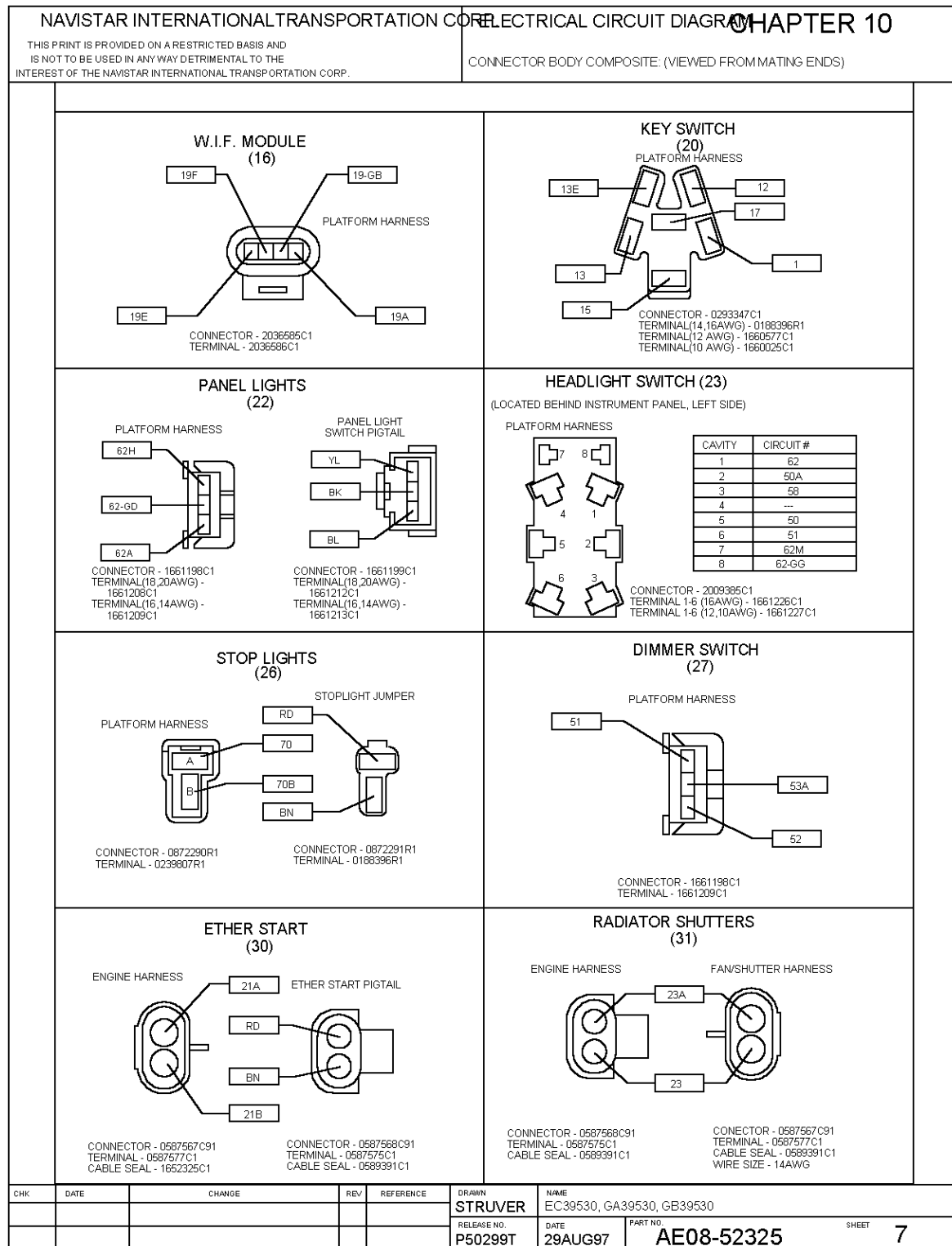


Figure 59 Connector Composites (13), (15), (15A)

Connector Composites (16), (20), (22), (23), (26), (27), (30), (31)

Figure 60 Connector Composites (16), (20), (22), (23), (26), (27), (30), (31)

Connector Composites (32), (37), (38), (39), (40), (41)

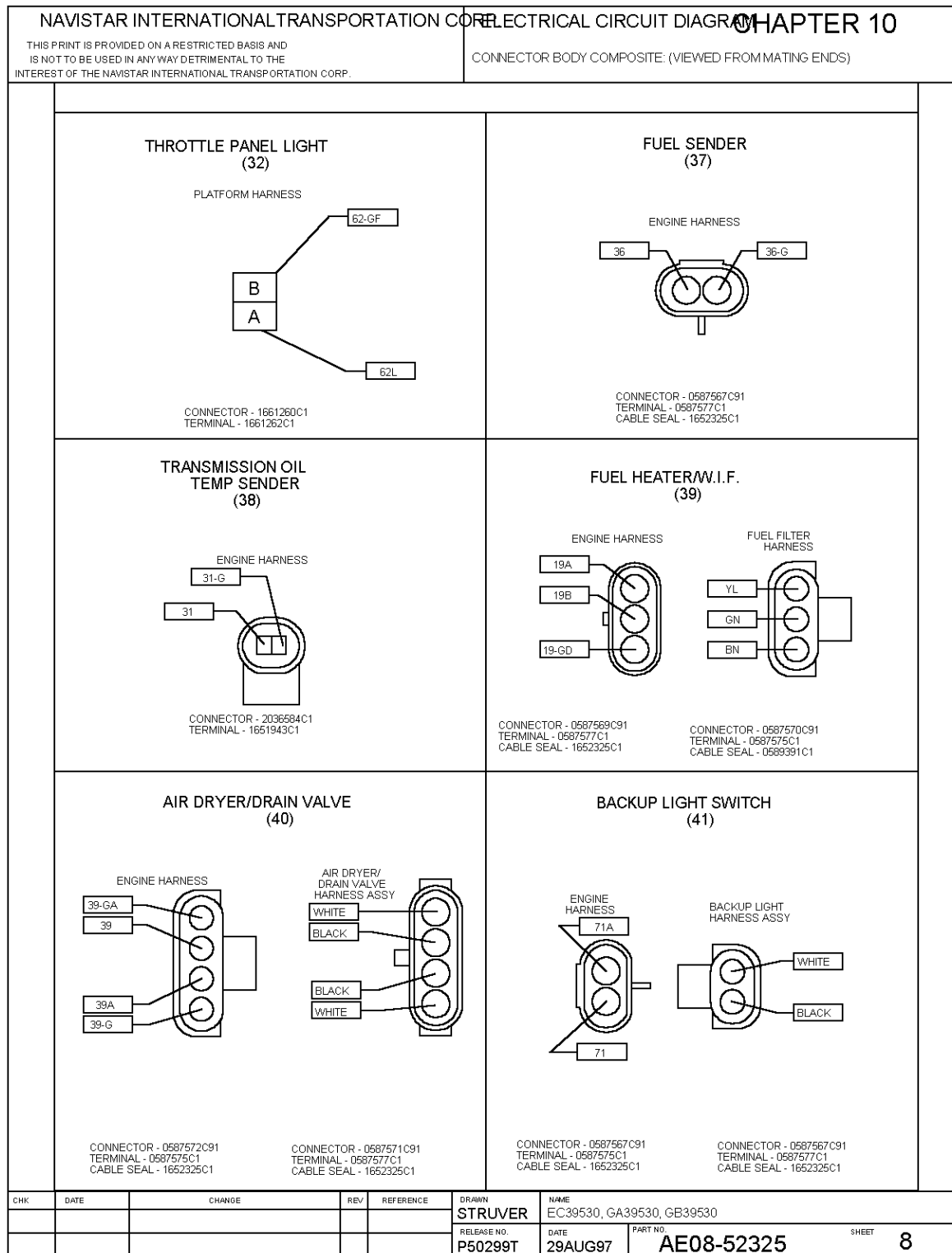
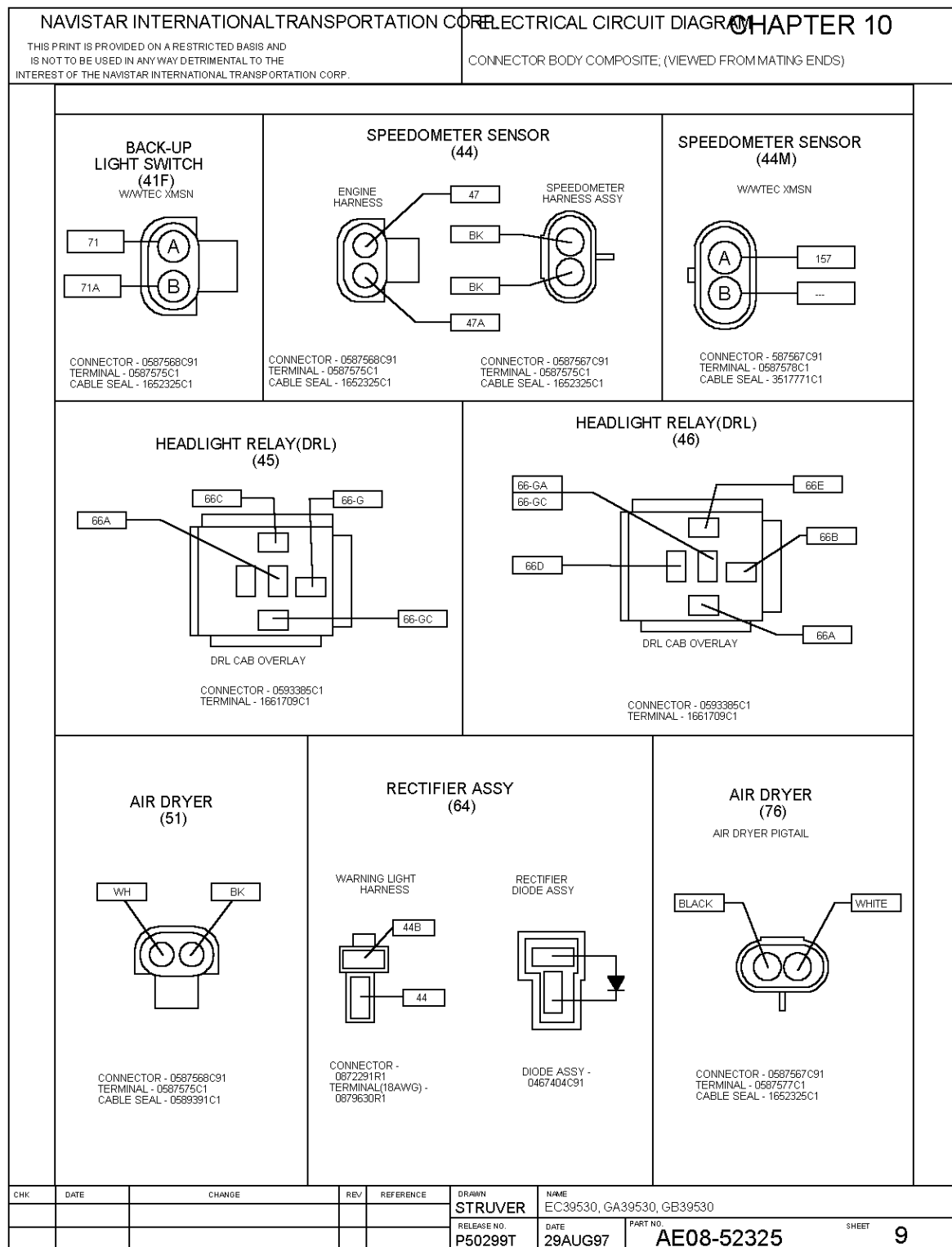


Figure 61 Connector Composites (32), (37), (38), (39), (40), (41)

Connector Composites (41F), (44), (44M), (45), (46), (51), (64), (76)

Figure 62 Connector Composites (41F), (44), (44M), (45), (46), (51), (64), (76)

Connector Composites (80), (81), (82), (83)

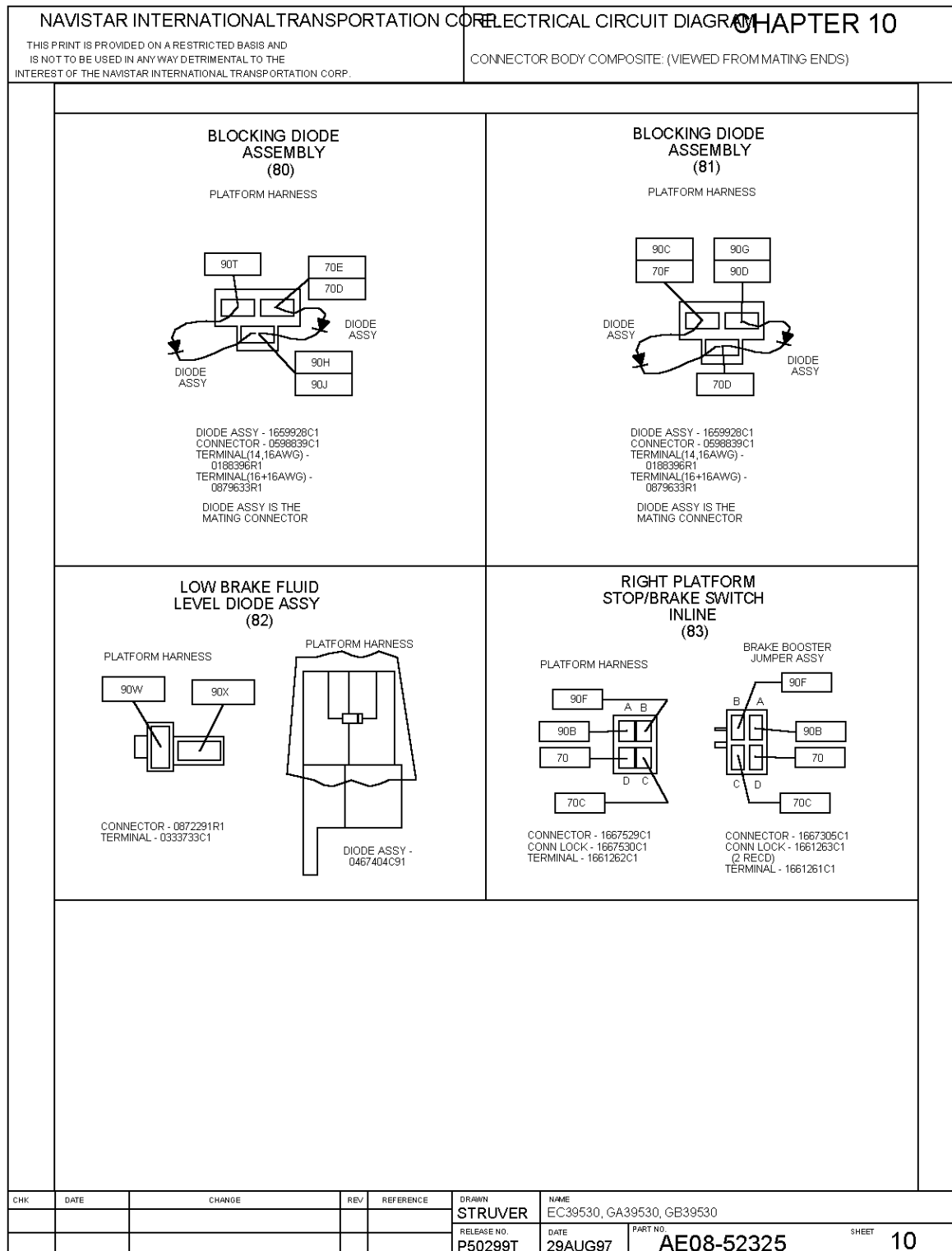


Figure 63 Connector Composites (80), (81), (82), (83)

Connector Composites (84), (85), (86), (87), (88)

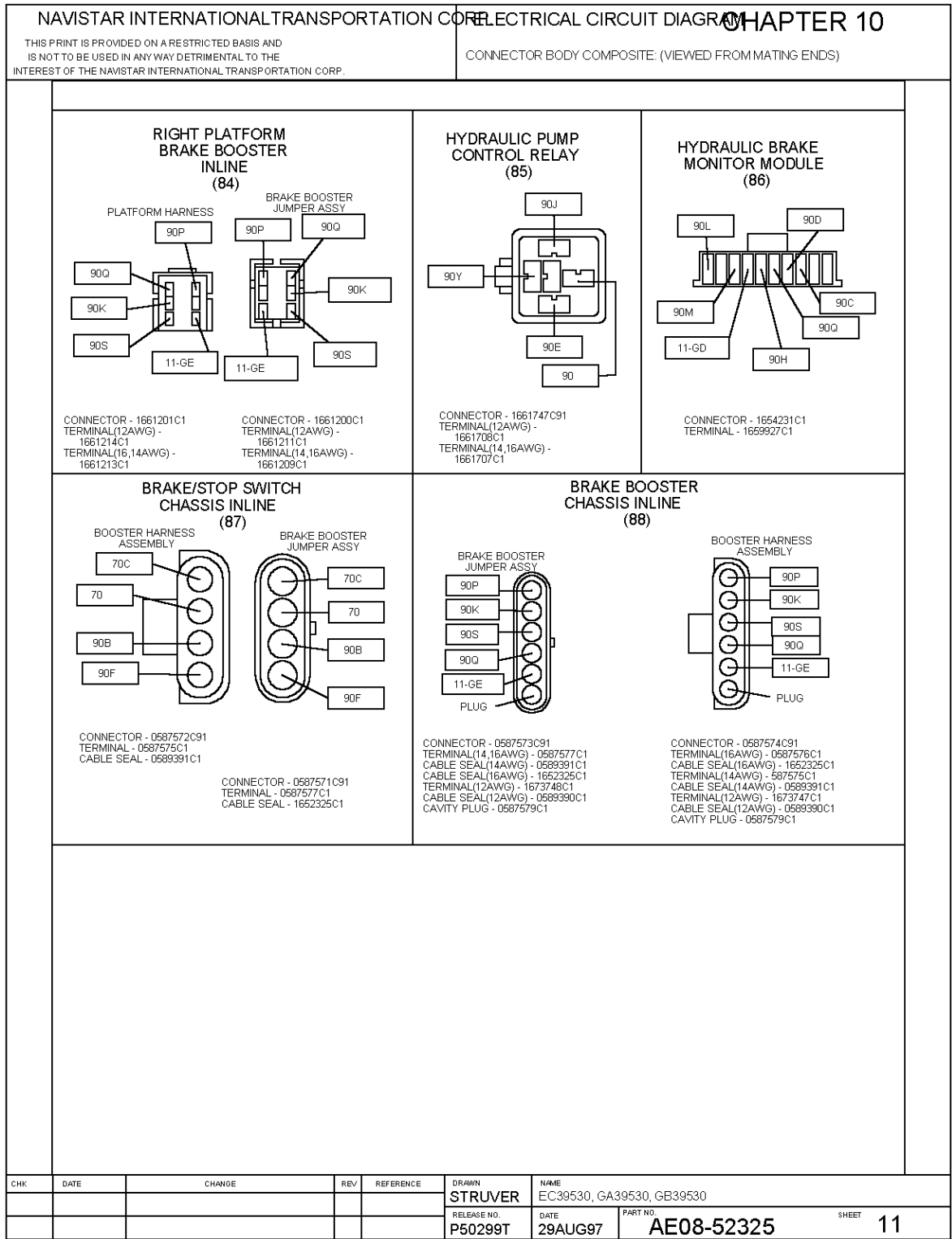


Figure 64 Connector Composites (84), (85), (86), (87), (88)

Connector Composites (89), (90), (91), (92), (93), (94), (165), (168)

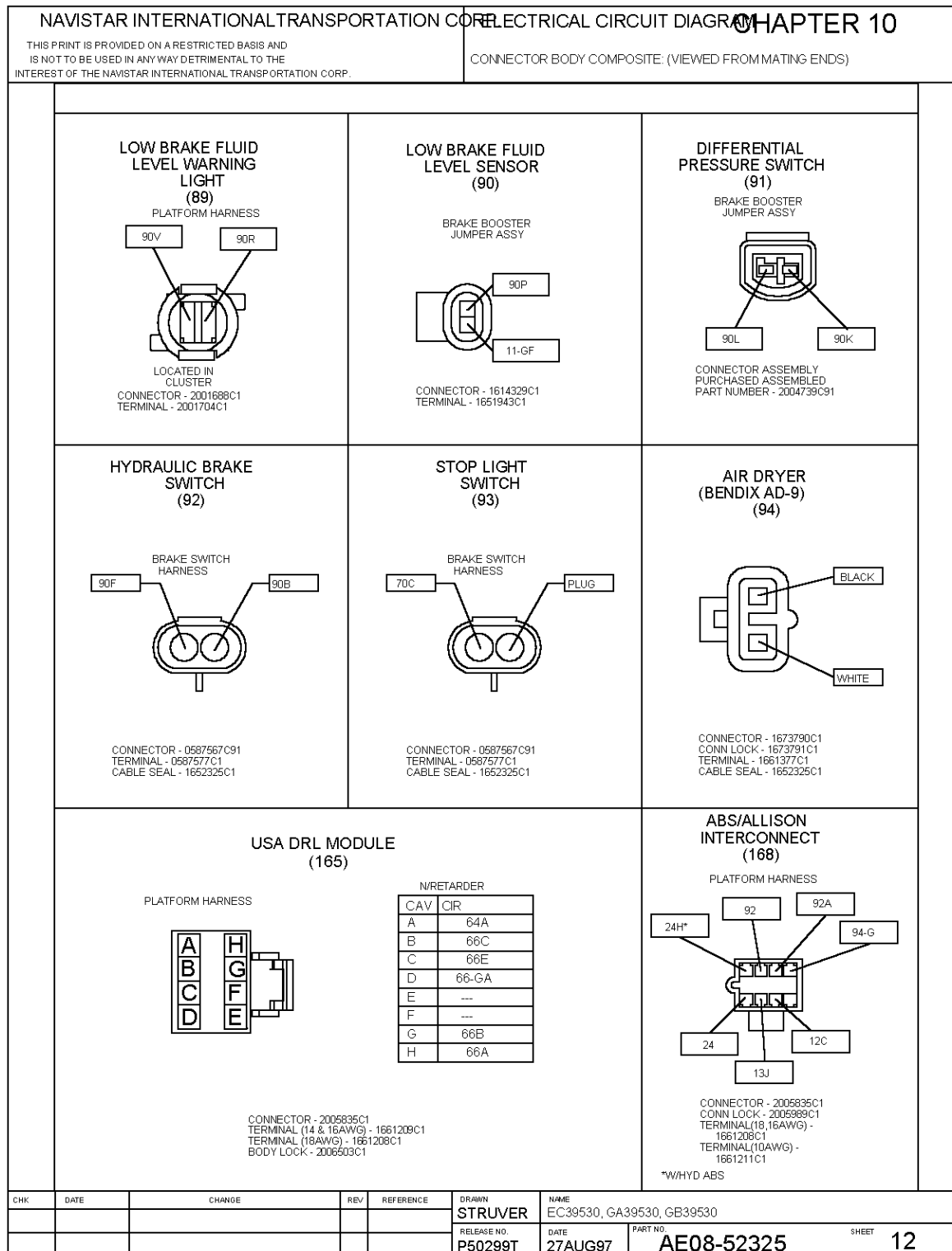


Figure 65 Connector Composites (89), (90), (91), (92), (93), (94), (165), (168)

Connector Composites (168), (169), (170), (194), (209), (218), (224), (258)

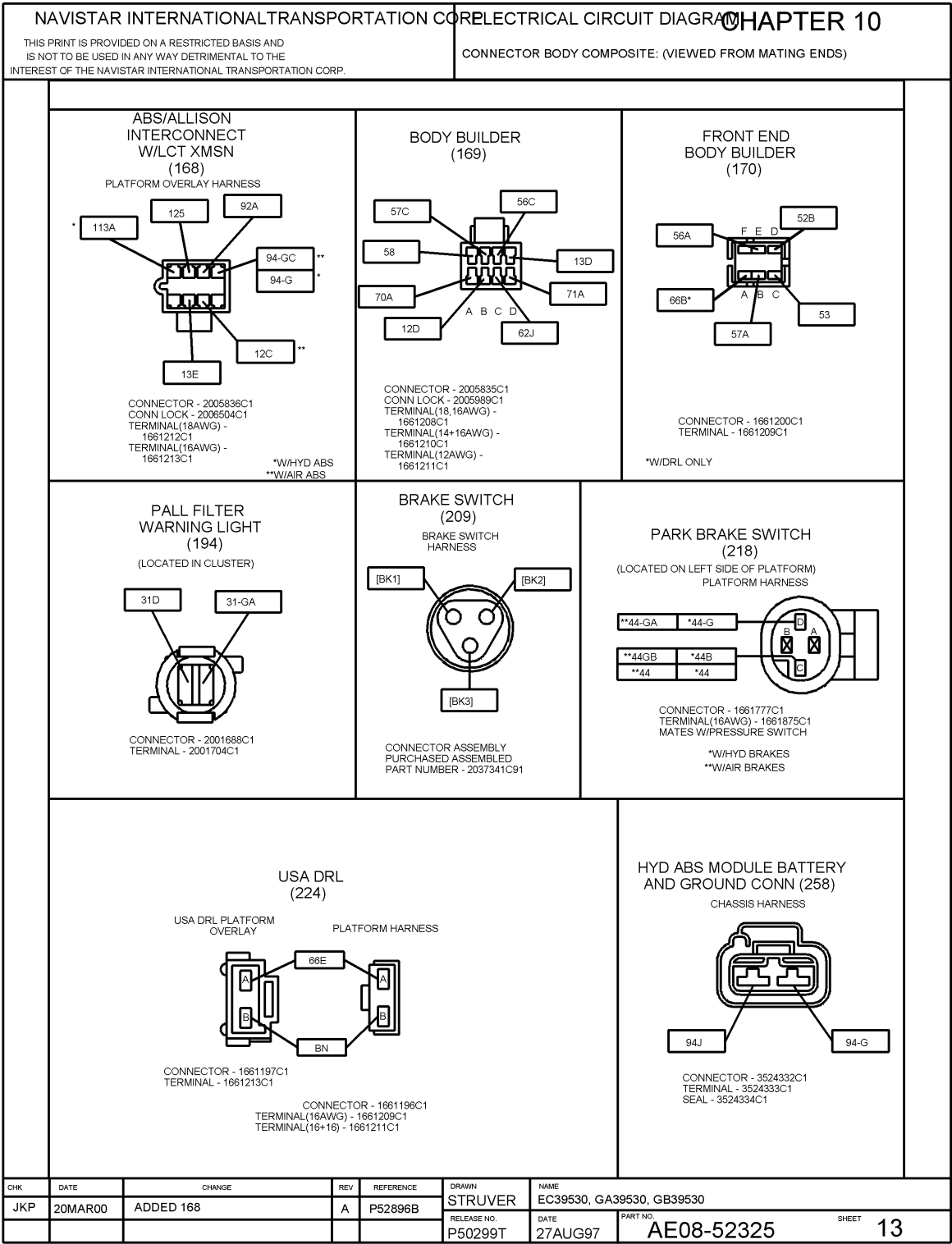


Figure 66 Connector Composites (168), (169), (170), (194), (209), (218), (224), (258)

Connector Composites (261), (279), (283), (284)

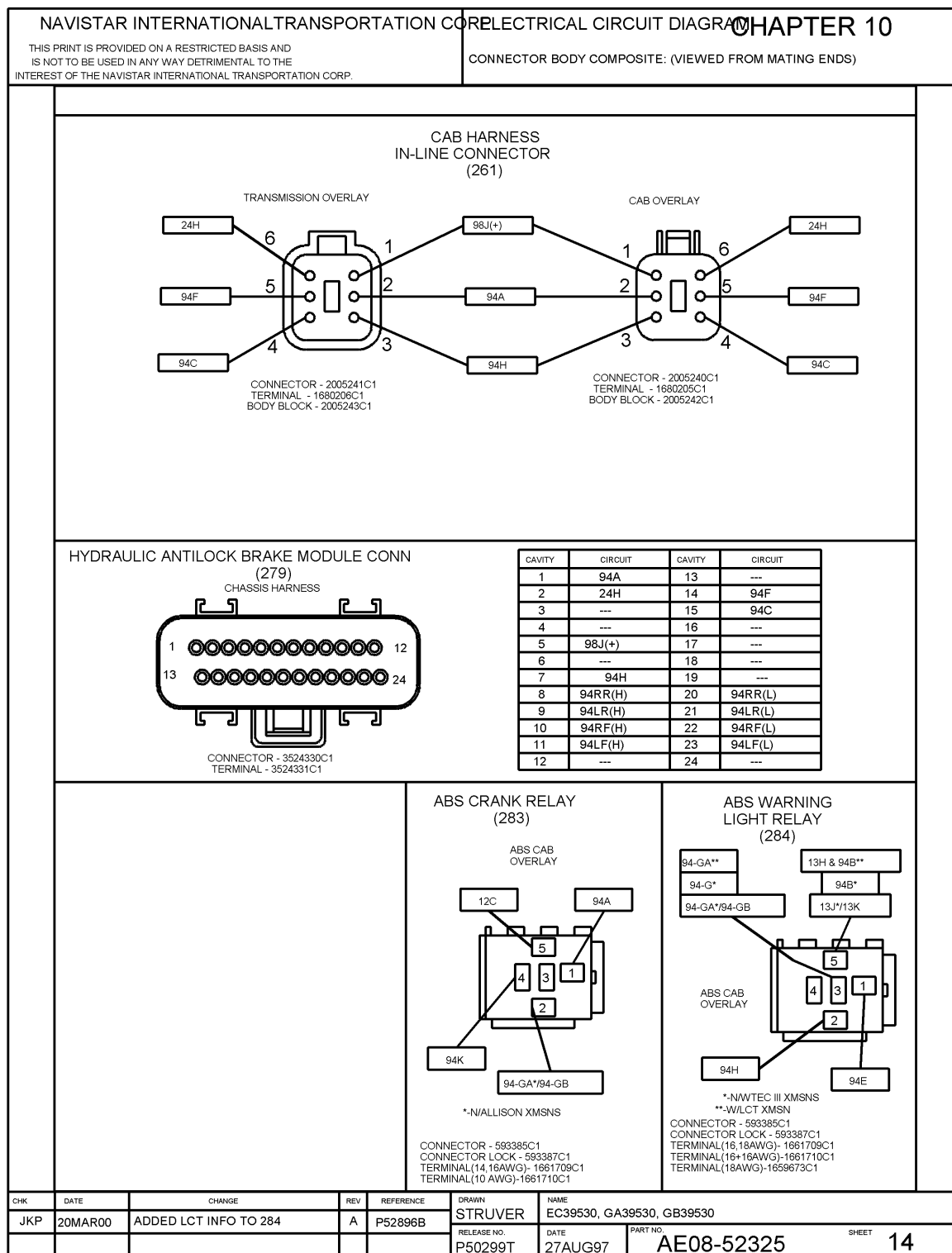
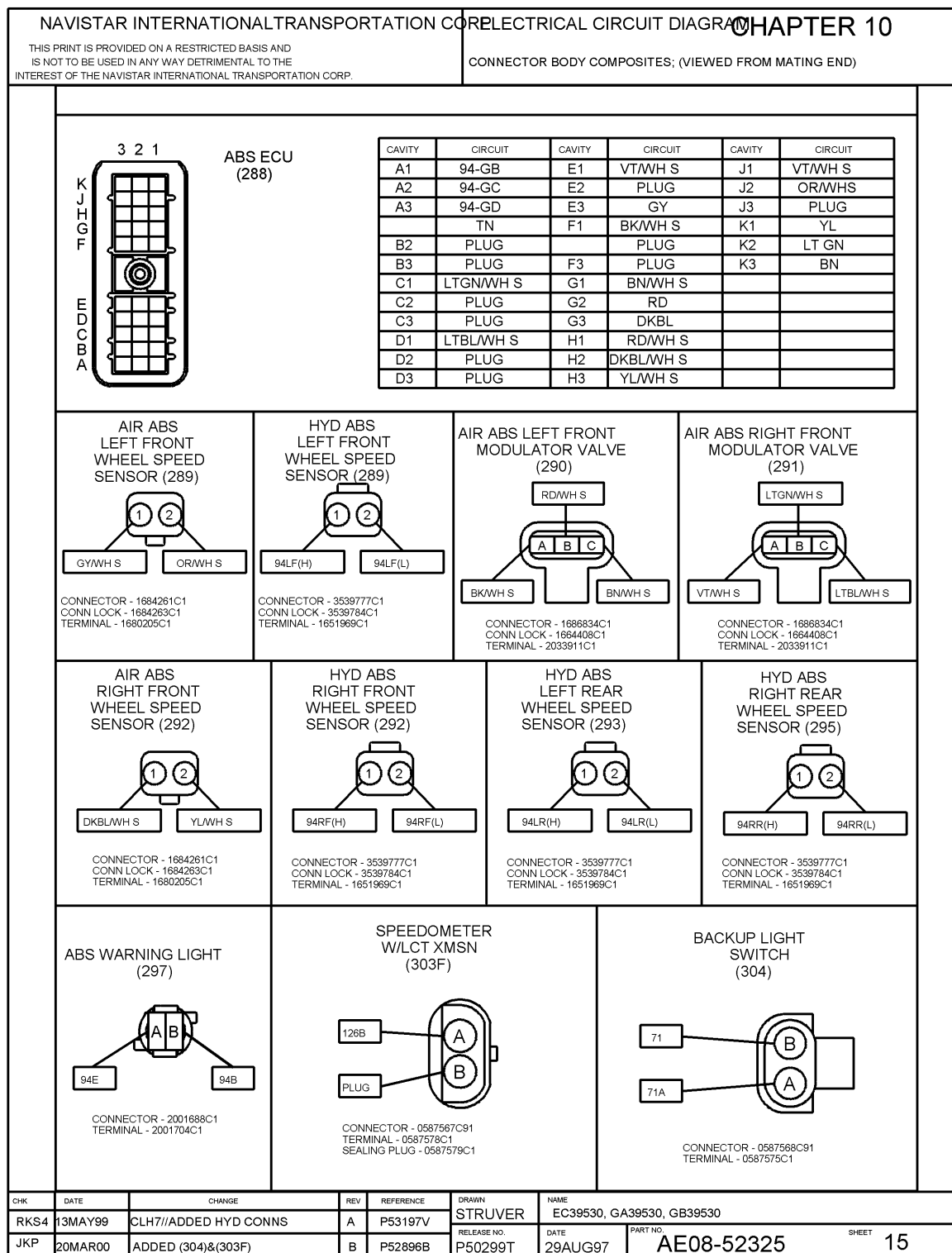


Figure 67 Connector Composites (261), (279), (283), (284)

Connector Composites (288), (289), (290), (291), (292), (293), (295), (297), (303F), (304)

Figure 68 Connector Composites (288), (289), (290), (291), (292), (293), (295), (297), (303F), (304)

Connector Composites (323), (329), (335), (336), (337), (340), (344)

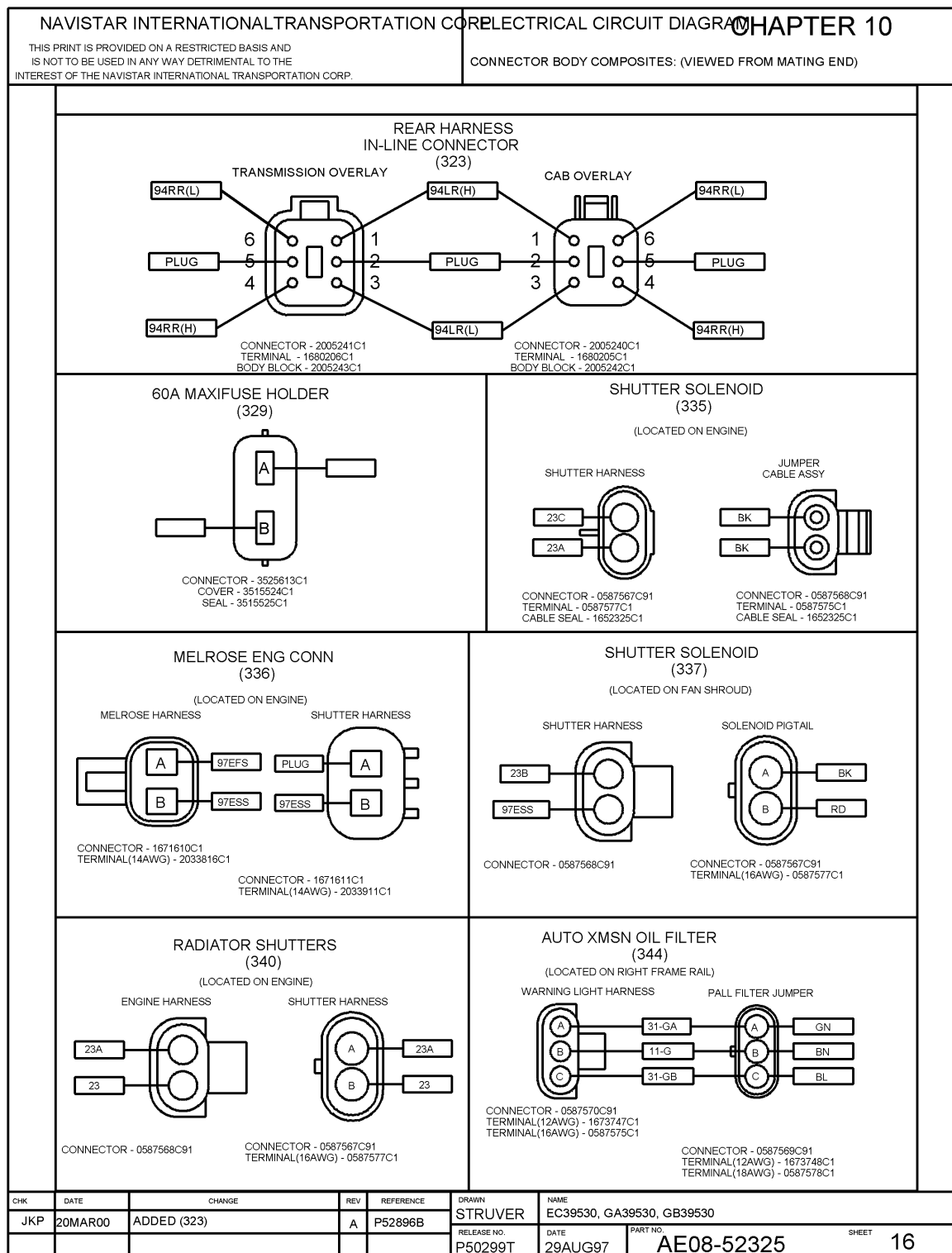
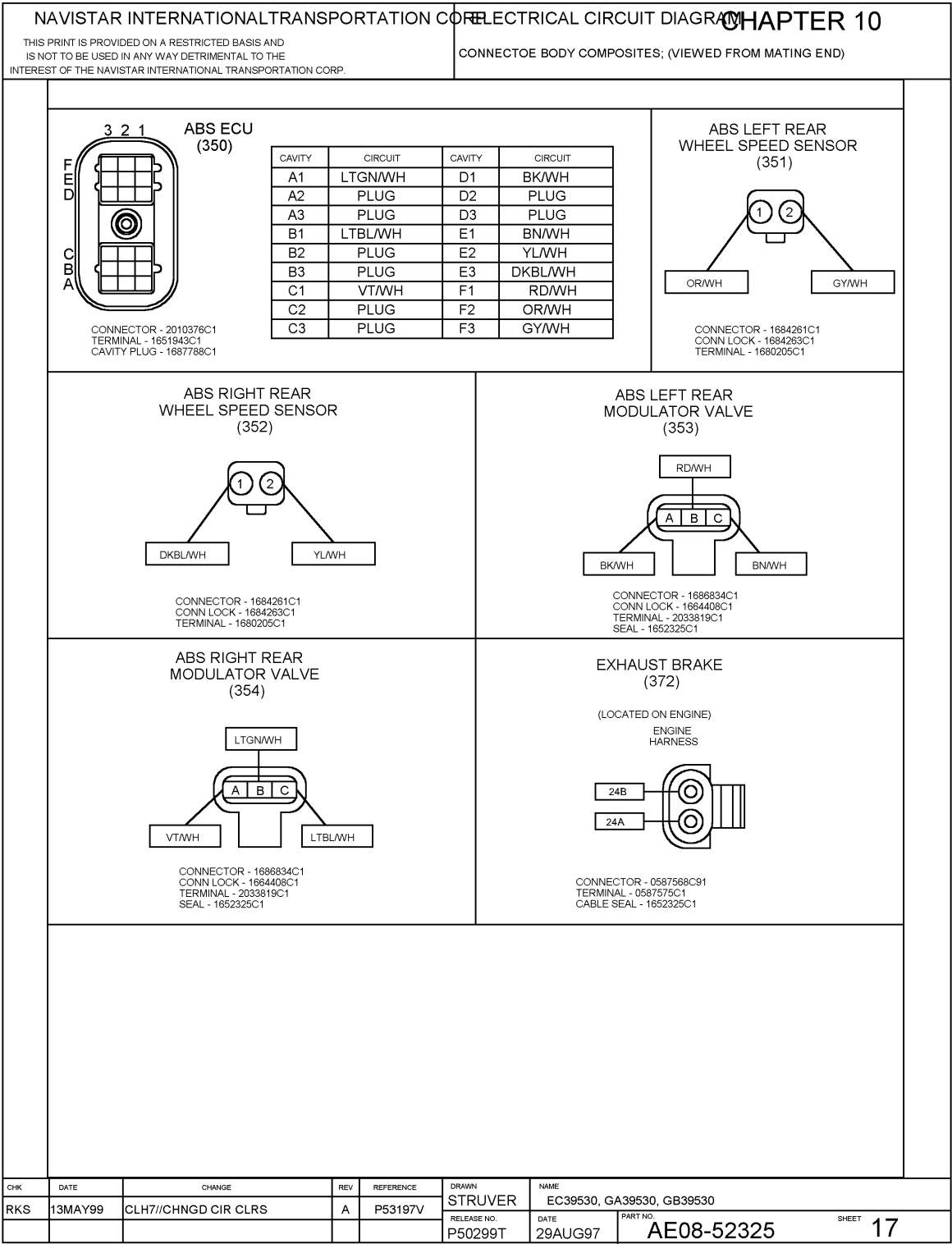


Figure 69 Connector Composites (323), (329), (335), (336), (337), (340), (344)

Connector Composites (350), (351), (352), (353), (354), (372)



Connector Composites (373), (374), (379)

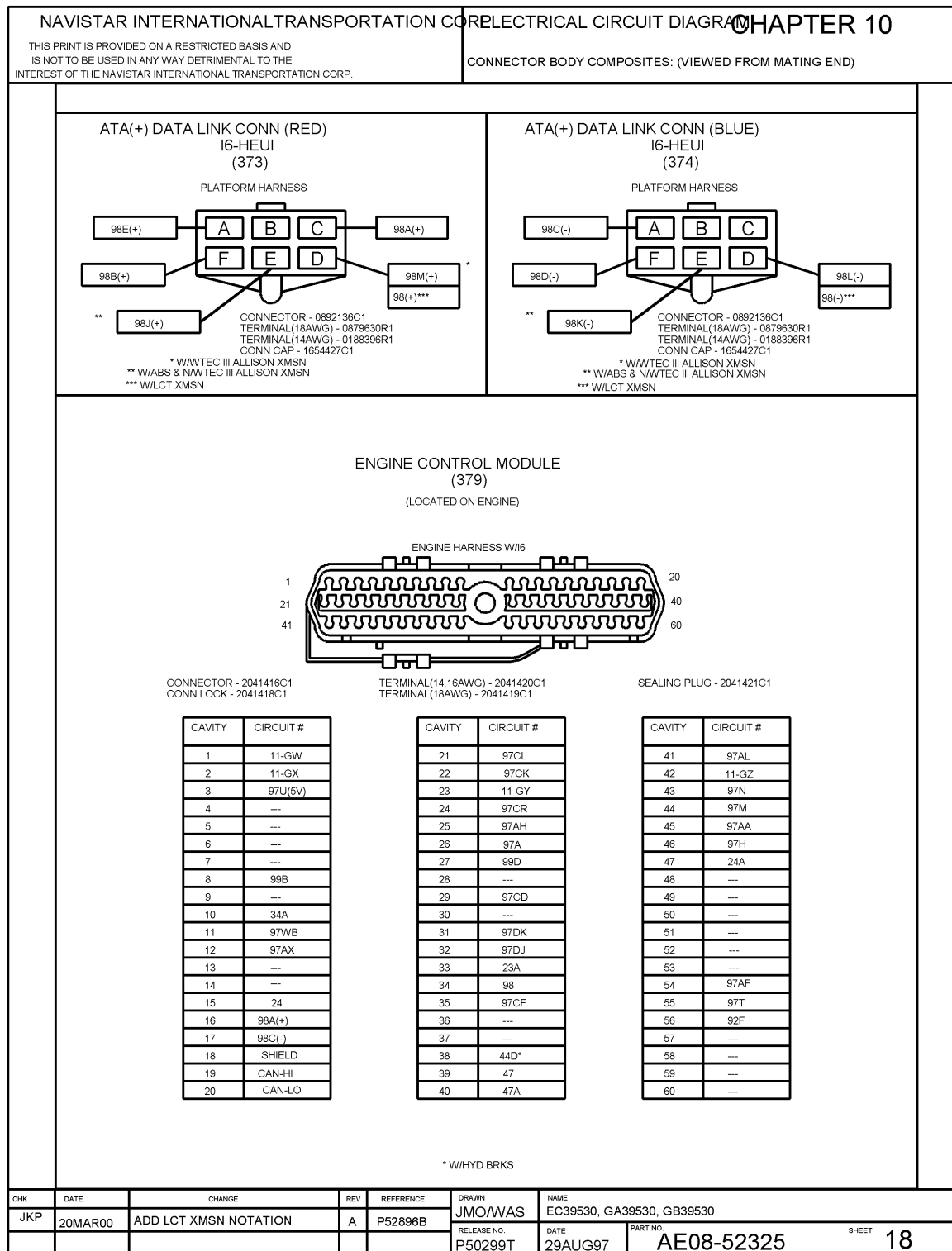


Figure 71 Connector Composites (373), (374), (379)

Connector Composites (382), (384), (387M), (388F), (389M), (391)

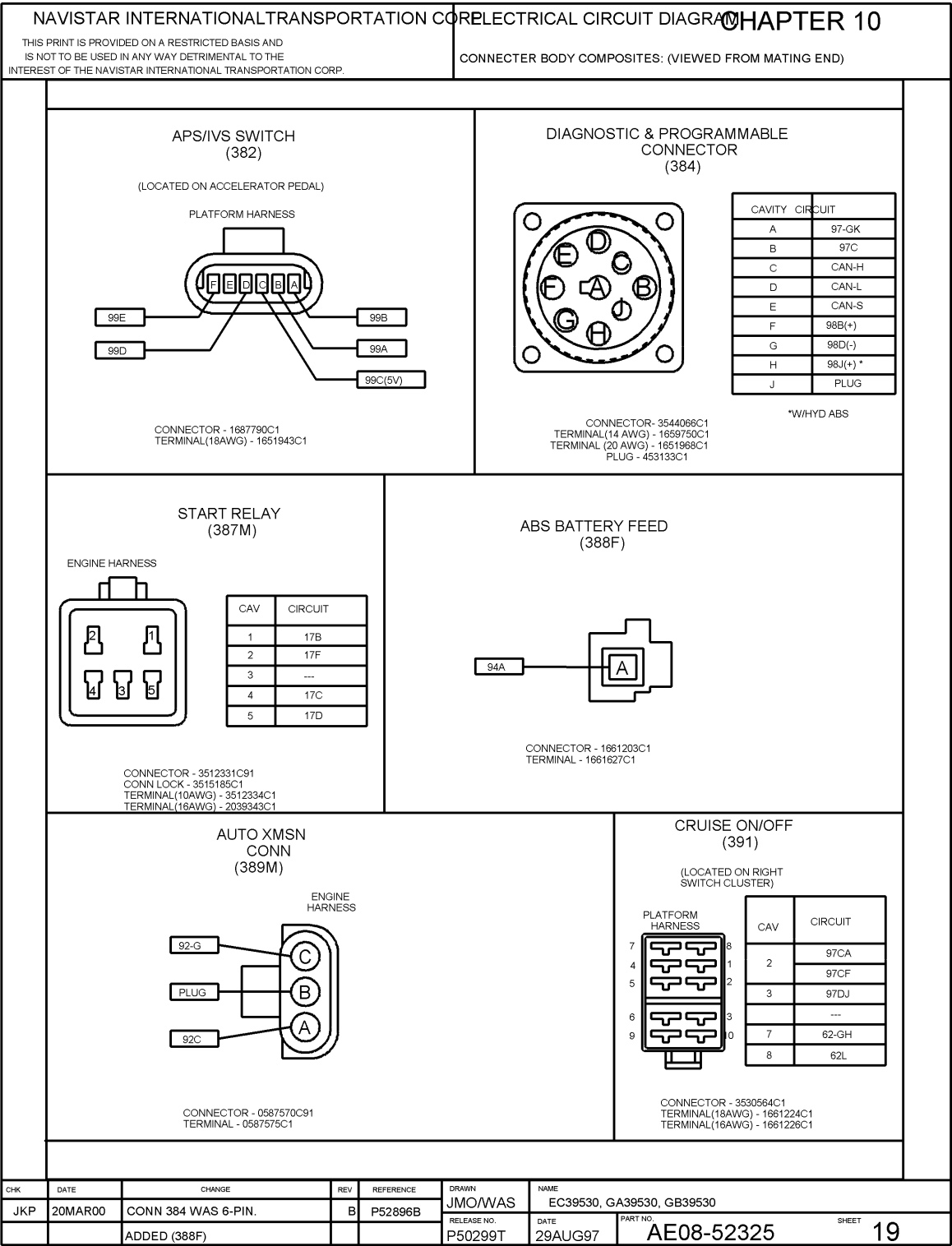


Figure 72 Connector Composites (382), (384), (387M), (388F), (389M), (391)

Connector Composites (392), (396), (404), (406), (420), (422)

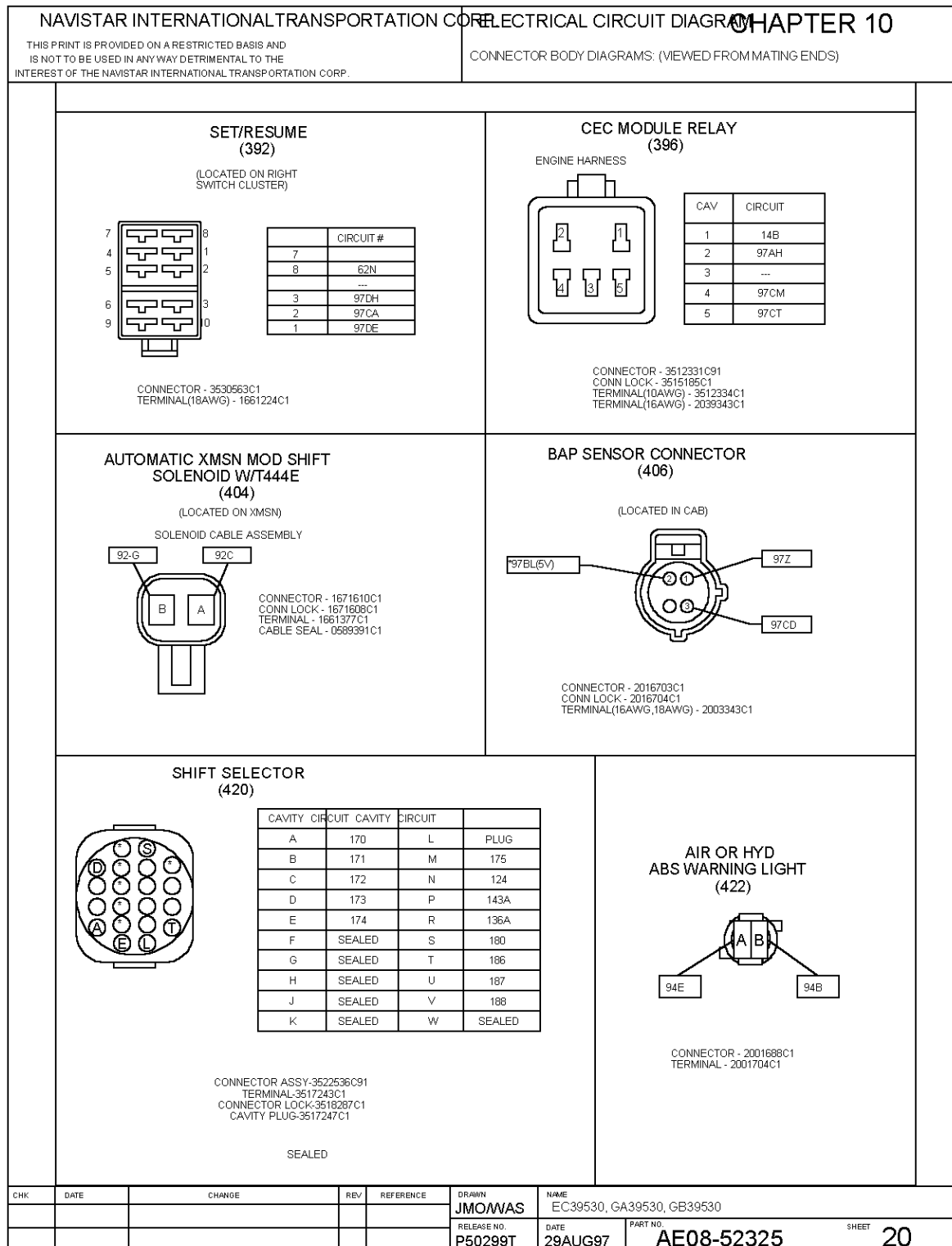


Figure 73 Connector Composites (392), (396), (404), (406), (420), (422)

Connector Composites (426), (426/A), (428), (438), (450), (451)

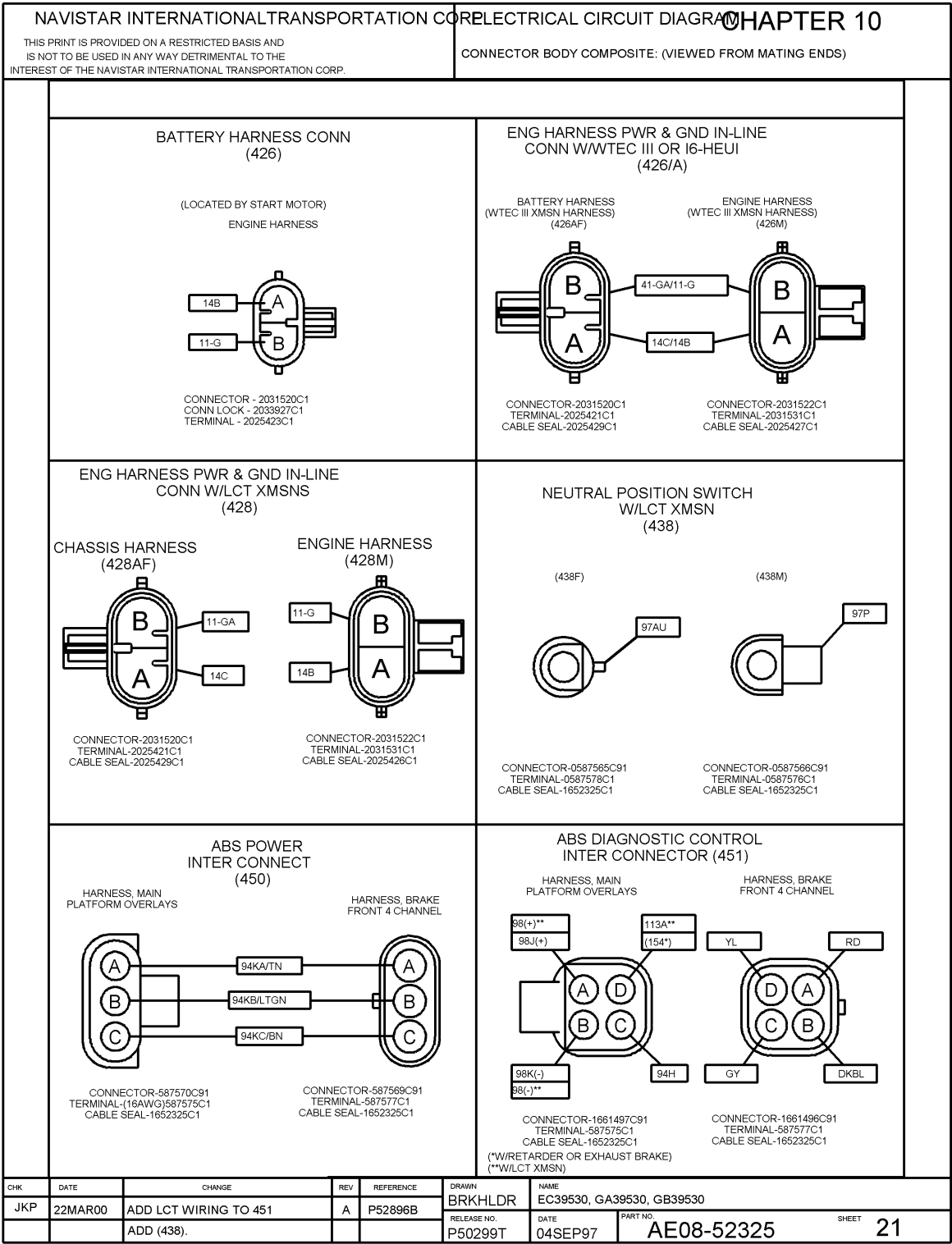


Figure 74 Connector Composites (426), (426/A), (428), (438), (450), (451)

Connector Composites (463), (466), (499), (523)

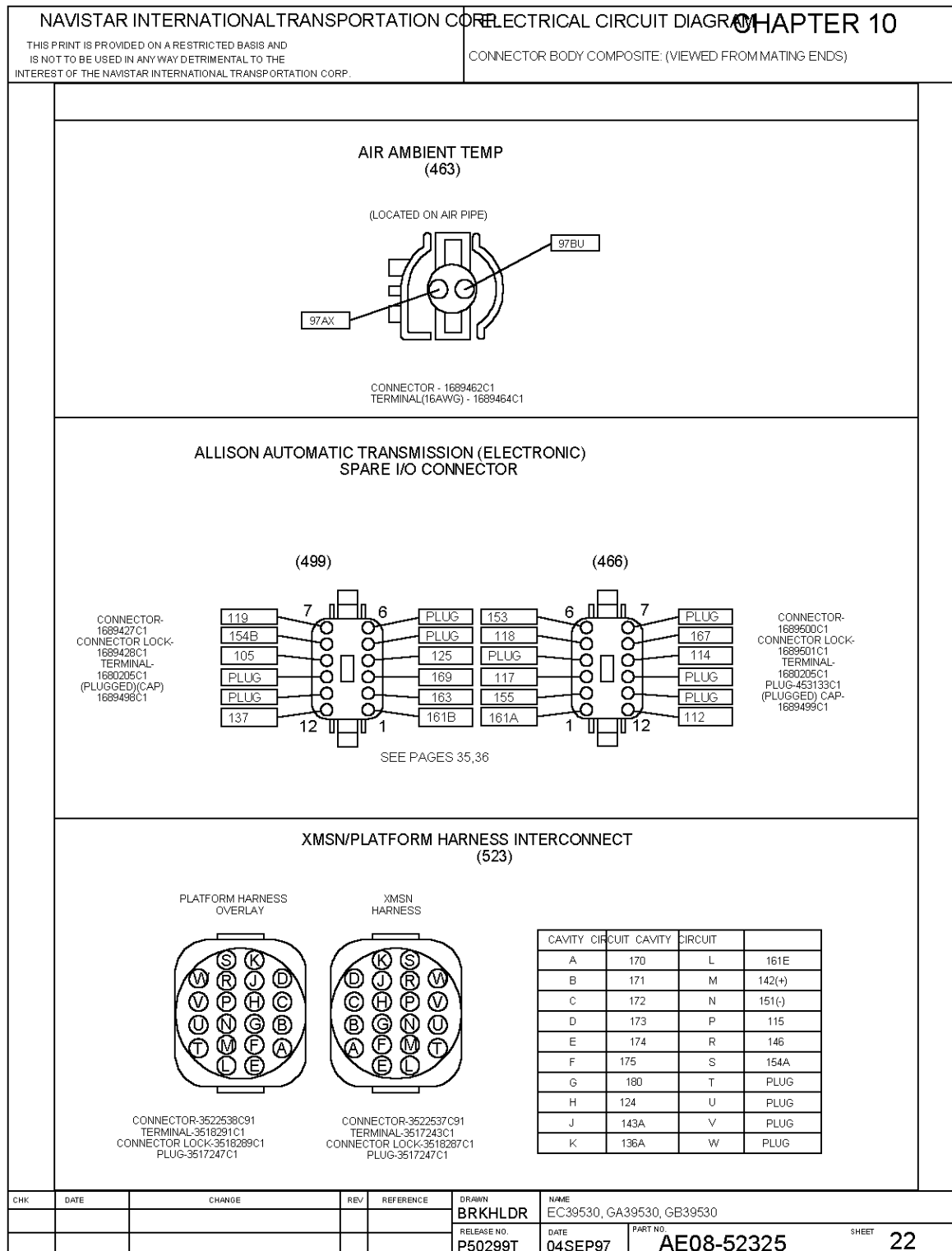
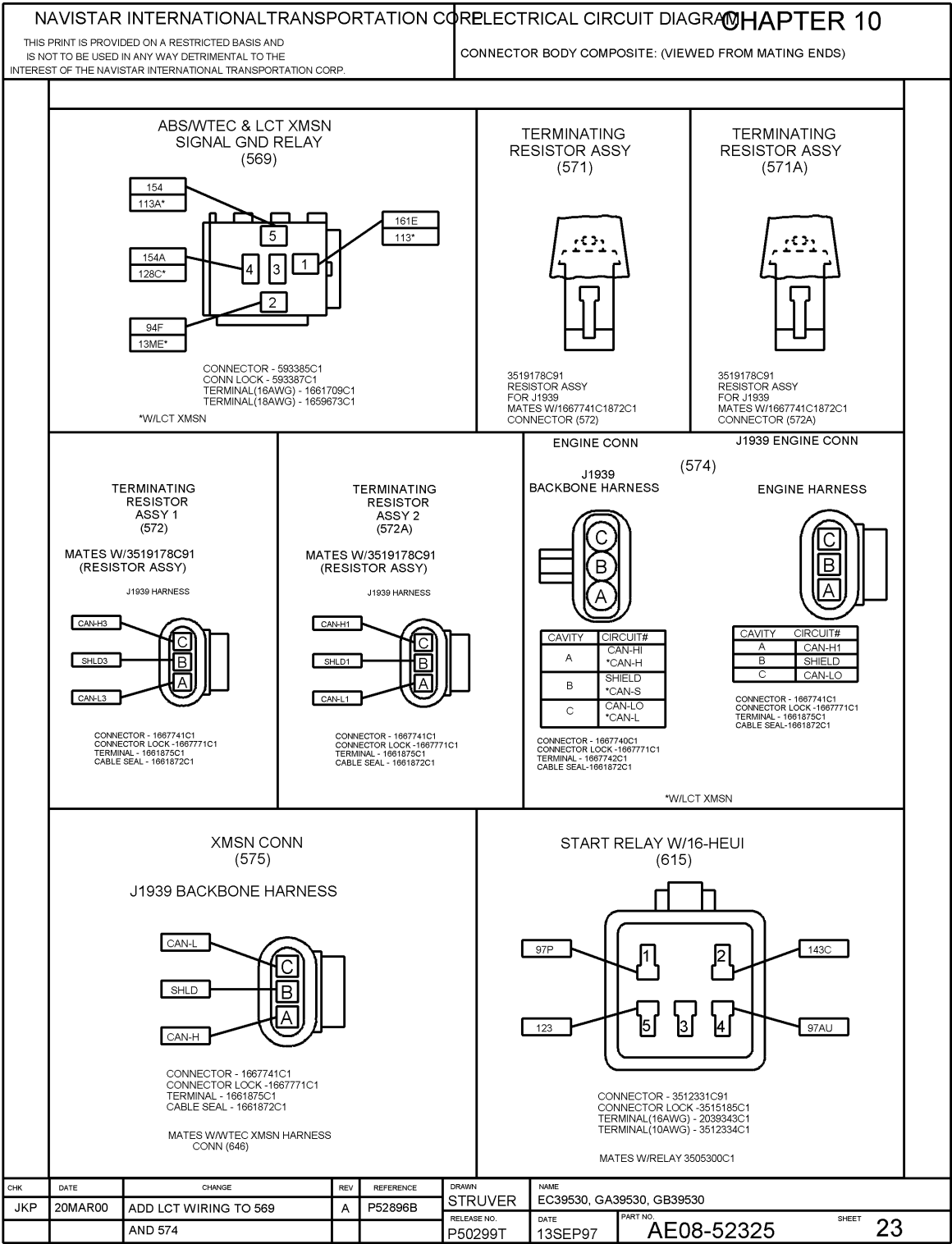


Figure 75 Connector Composites (463), (466), (499), (523)

Connector Composites (569), (571), (571A), (572), (572A), (574), (575), (615)



Connector Composites (632), (633), (634)

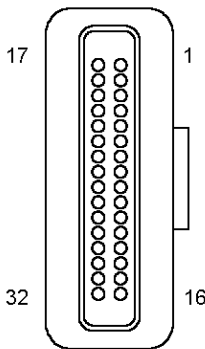
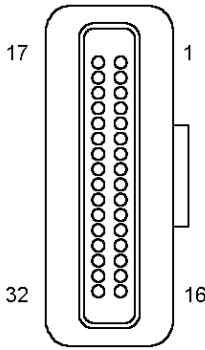
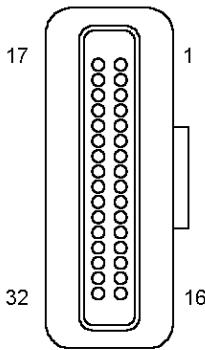
NAVISTAR INTERNATIONAL TRANSPORTATION CORP.					ELECTRICAL CIRCUIT DIAGRAM CHAPTER 10																																																																								
THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE NAVISTAR INTERNATIONAL TRANSPORTATION CORP.					CONNECTOR BODY COMPOSITE: (VIEWED FROM MATING ENDS)																																																																								
 TRANSMISSION ECU "S" (632) CONNECTOR ASSY (GRAY)-3517239C1* RETAINER (CLR)-3517240C1 CONNECTOR-3517244C1 SEAL-3517245C1 CONN(POSITION) LOCK-3517246C1 PLUG-3517247C1 GRAY STRAIN RELIEF.* <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>CAVITY</th><th>CIRCUIT</th><th>CAVITY</th><th>CIRCUIT</th></tr> </thead> <tbody> <tr><td>1</td><td>136</td><td>17</td><td>143</td></tr> <tr><td>2</td><td>114</td><td>18</td><td>125</td></tr> <tr><td>3</td><td>PLUG</td><td>19</td><td>105</td></tr> <tr><td>4</td><td>113</td><td>20</td><td>PLUG</td></tr> <tr><td>5</td><td>167</td><td>21</td><td>PLUG</td></tr> <tr><td>6</td><td>123</td><td>22</td><td>112</td></tr> <tr><td>7</td><td>PLUG</td><td>23</td><td>PLUG</td></tr> <tr><td>8</td><td>PLUG</td><td>24</td><td>PLUG</td></tr> <tr><td>9</td><td>PLUG</td><td>25</td><td>PLUG</td></tr> <tr><td>10</td><td>PLUG</td><td>26</td><td>PLUG</td></tr> <tr><td>11</td><td>155</td><td>27</td><td>154</td></tr> <tr><td>12</td><td>153</td><td>28</td><td>PLUG</td></tr> <tr><td>13</td><td>118</td><td>29</td><td>137</td></tr> <tr><td>14</td><td>PLUG</td><td>30</td><td>117</td></tr> <tr><td>15</td><td>PLUG</td><td>31</td><td>161</td></tr> <tr><td>16</td><td>136B</td><td>31</td><td>143B</td></tr> </tbody> </table>										CAVITY	CIRCUIT	CAVITY	CIRCUIT	1	136	17	143	2	114	18	125	3	PLUG	19	105	4	113	20	PLUG	5	167	21	PLUG	6	123	22	112	7	PLUG	23	PLUG	8	PLUG	24	PLUG	9	PLUG	25	PLUG	10	PLUG	26	PLUG	11	155	27	154	12	153	28	PLUG	13	118	29	137	14	PLUG	30	117	15	PLUG	31	161	16	136B	31	143B
CAVITY	CIRCUIT	CAVITY	CIRCUIT																																																																										
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CAVITY	CIRCUIT	CAVITY	CIRCUIT																																																																										
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CAVITY	CIRCUIT	CAVITY	CIRCUIT																																																																										
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CHK	DATE	CHANGE	REV	REFERENCE	DRAWN STRUVER	NAME EC39530, GA39530, GB39530																																																																							
					RELEASE NO. P50299T	DATE 13SEP97	PART NO. AE08-52325	SHEET 24																																																																					

Figure 77 Connector Composites (632), (633), (634)

Connector Composites (637), (639), (646)

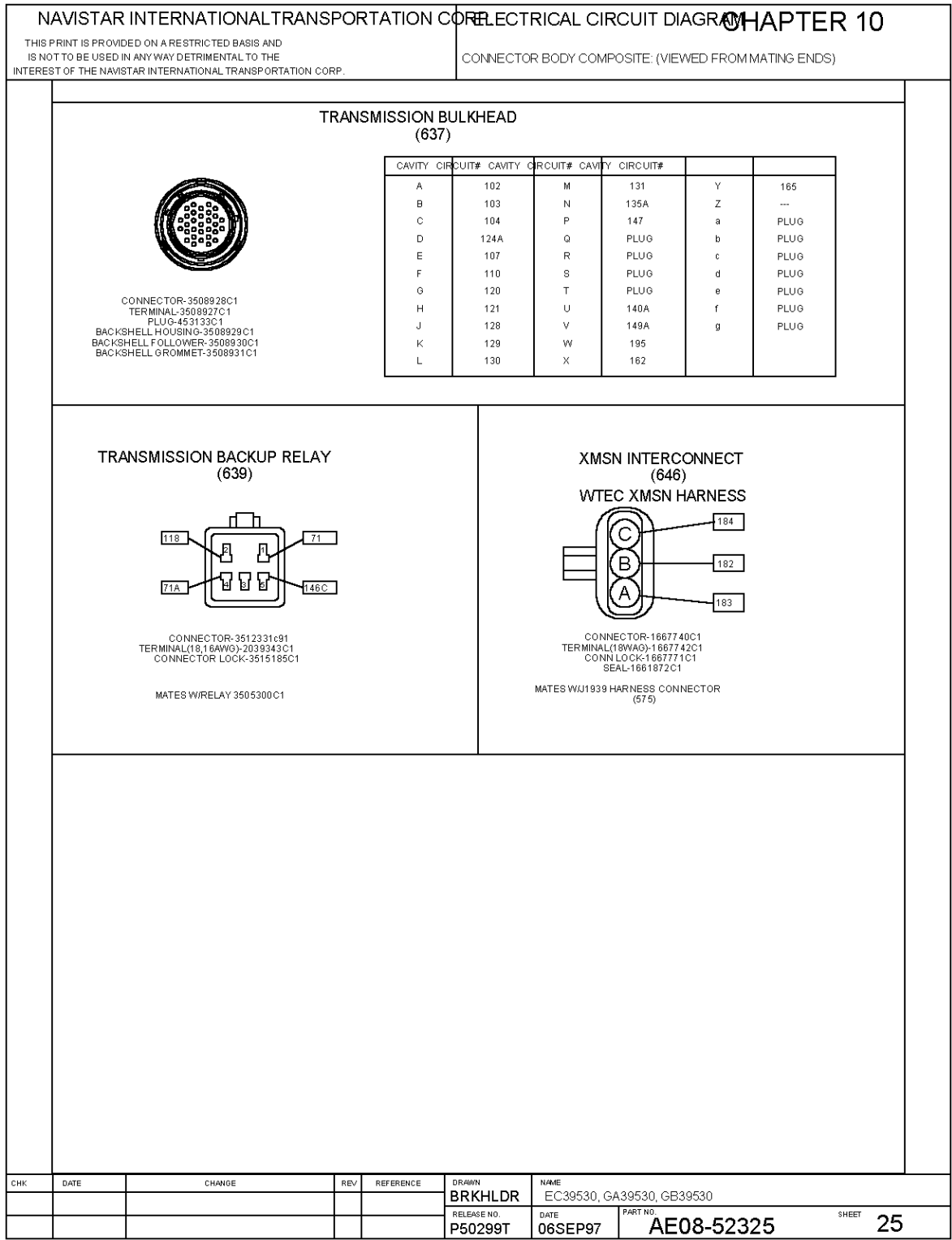


Figure 78 Connector Composites (637), (639), (646)

Connector Composites (832), (836), (1002), (1133), (3084)

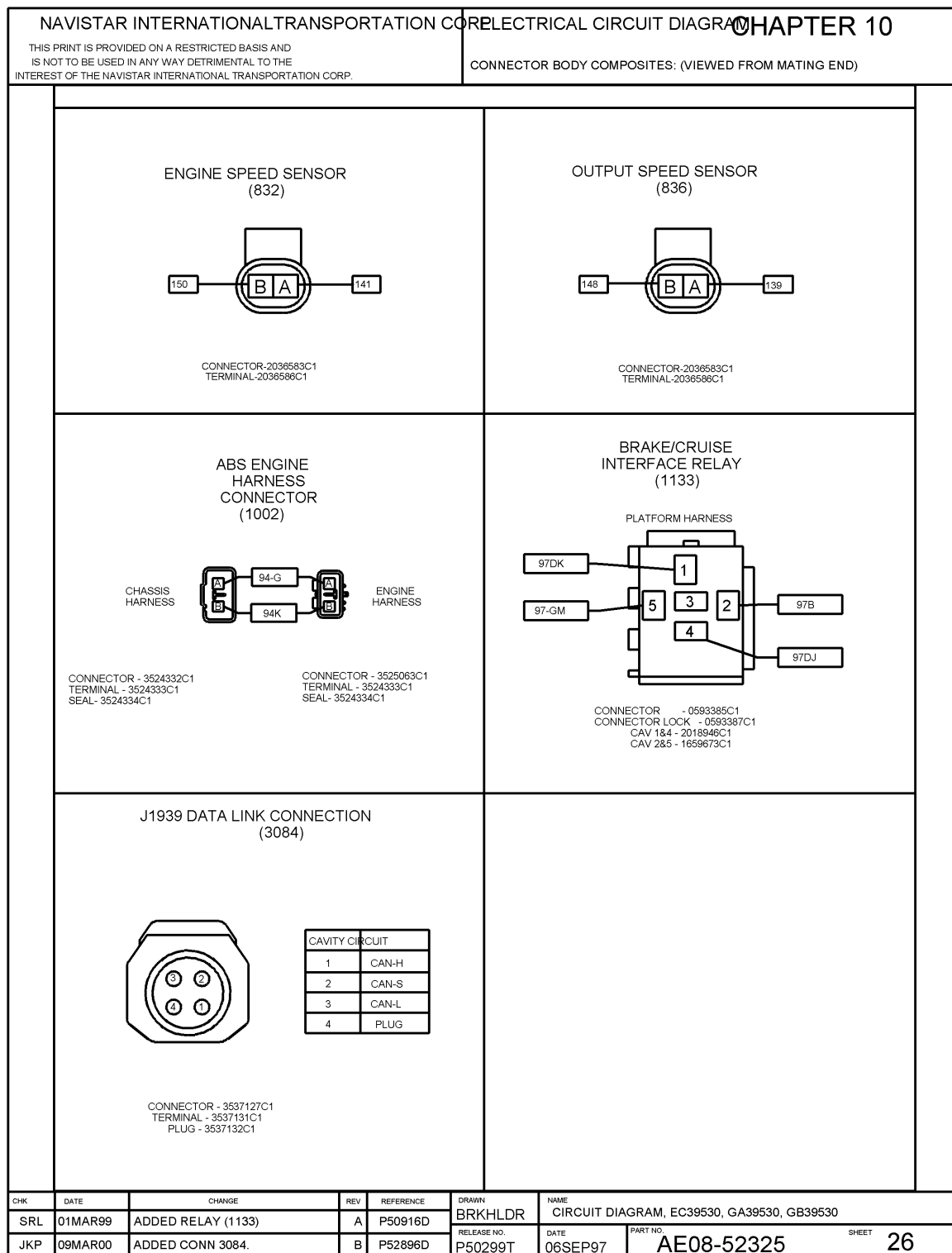
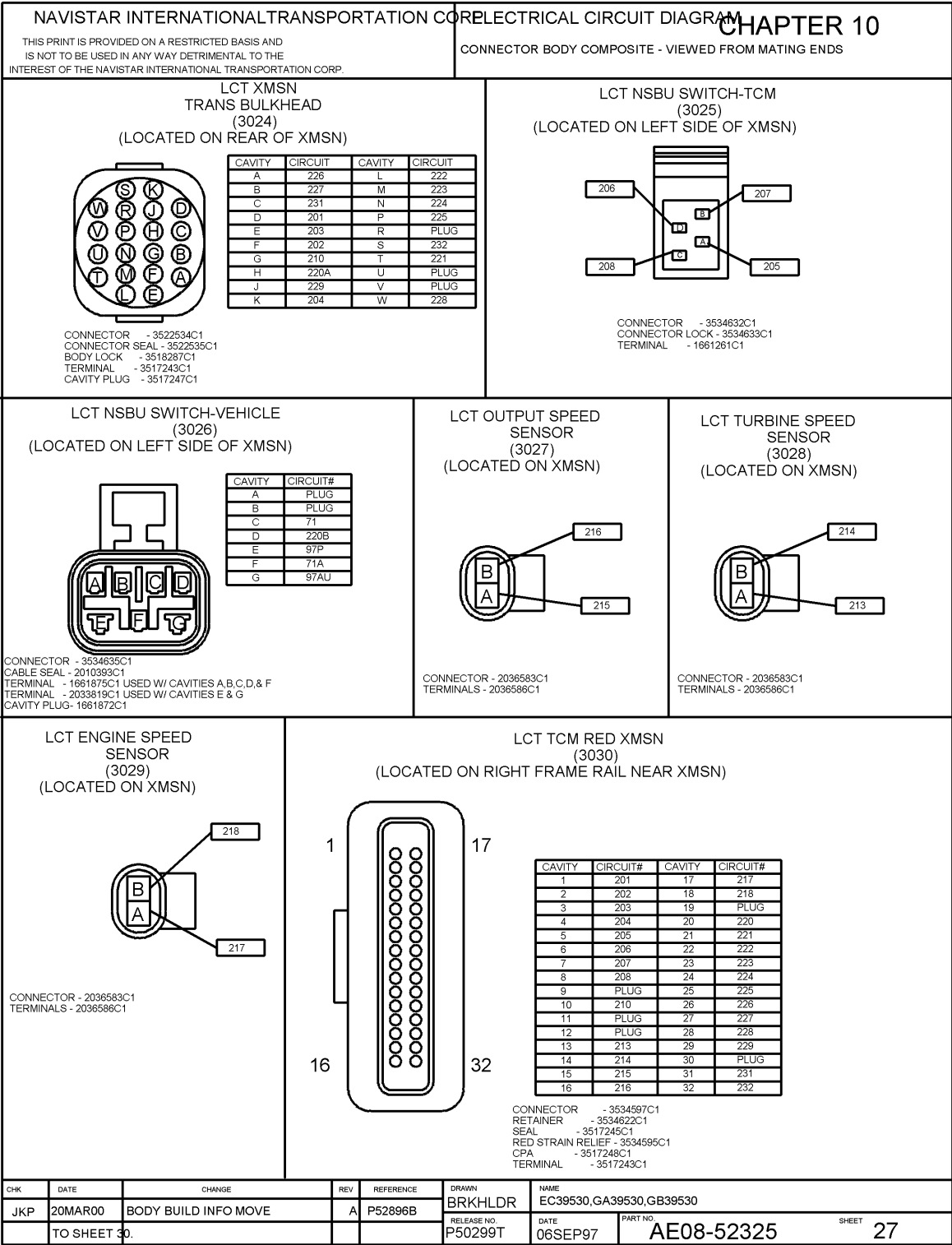


Figure 79 Connector Composites (832), (836), (1002), (1133), (3084)

Connector Composites (3024), (3025), (3026), (3027), (3028), (3029), (3030)



Connector Composites (3031), (3032), (3036), (3043)

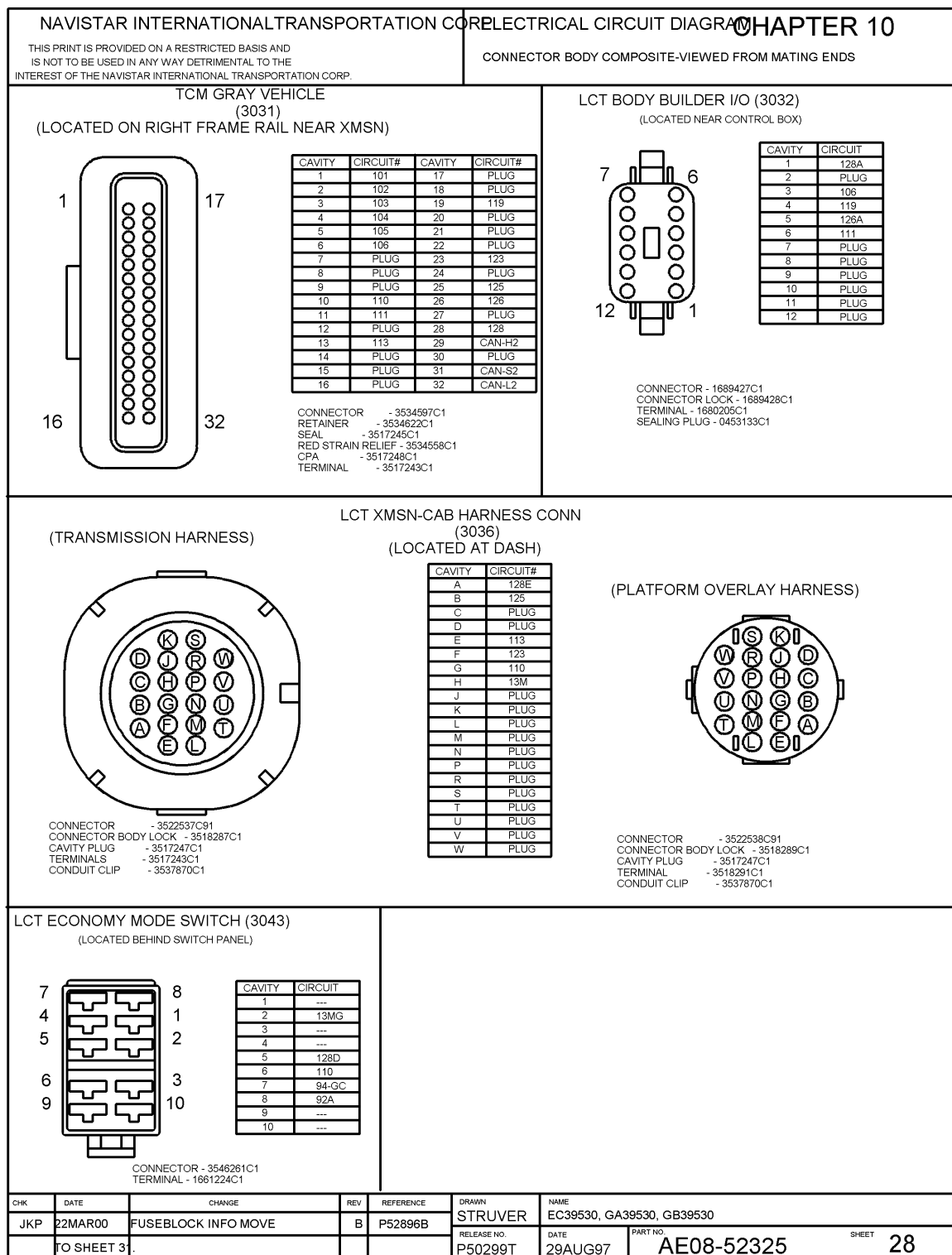
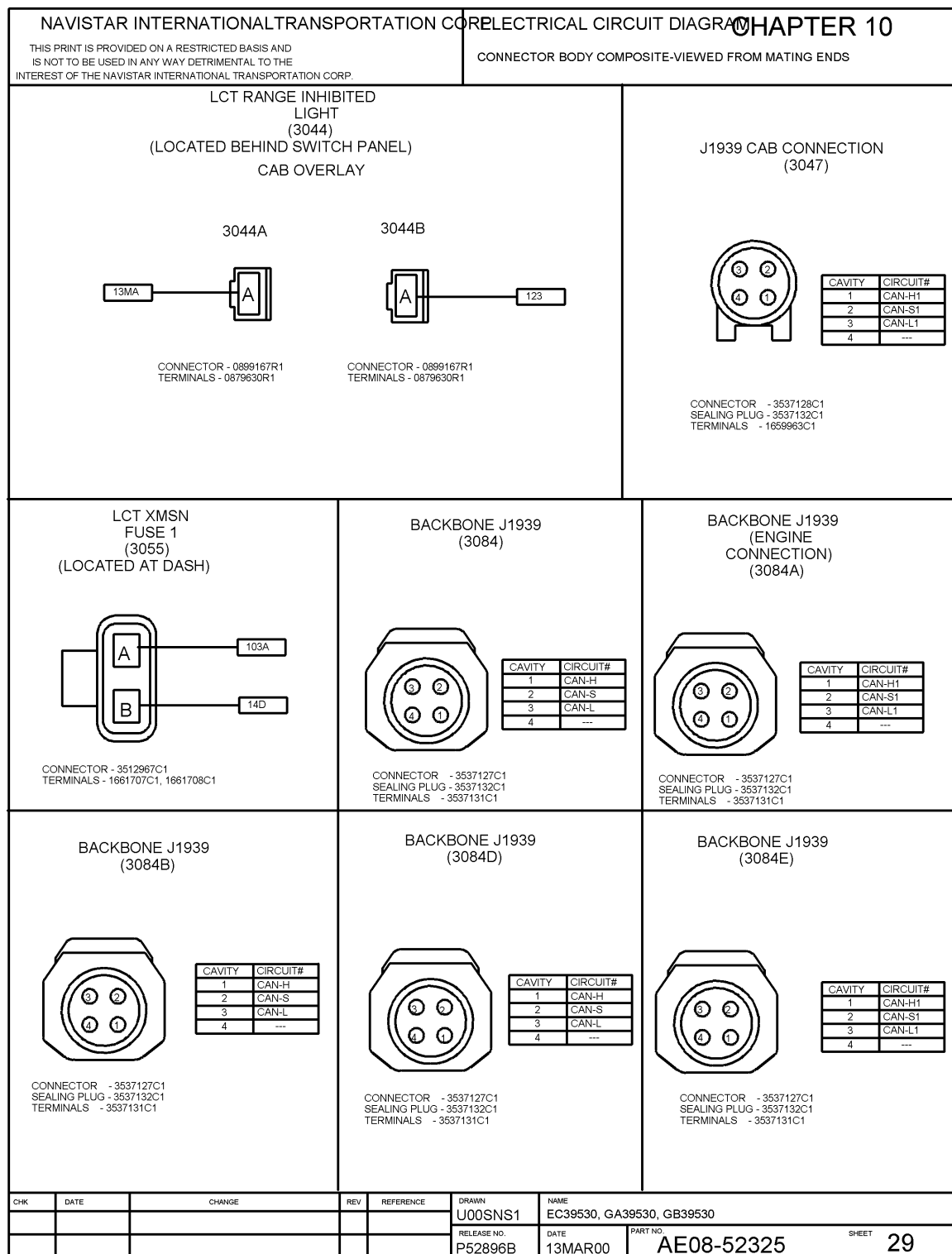


Figure 81 Connector Composites (3031), (3032), (3036), (3043)

Connector Composites (3044), (3047), (3055), (3084), (3084A), (3084B), (3084D, (3084E)

Figure 82 Connector Composites (3044), (3047), (3055), (3084), (3084A), (3084B), (3084D, (3084E)

Lamp Bulb Chart

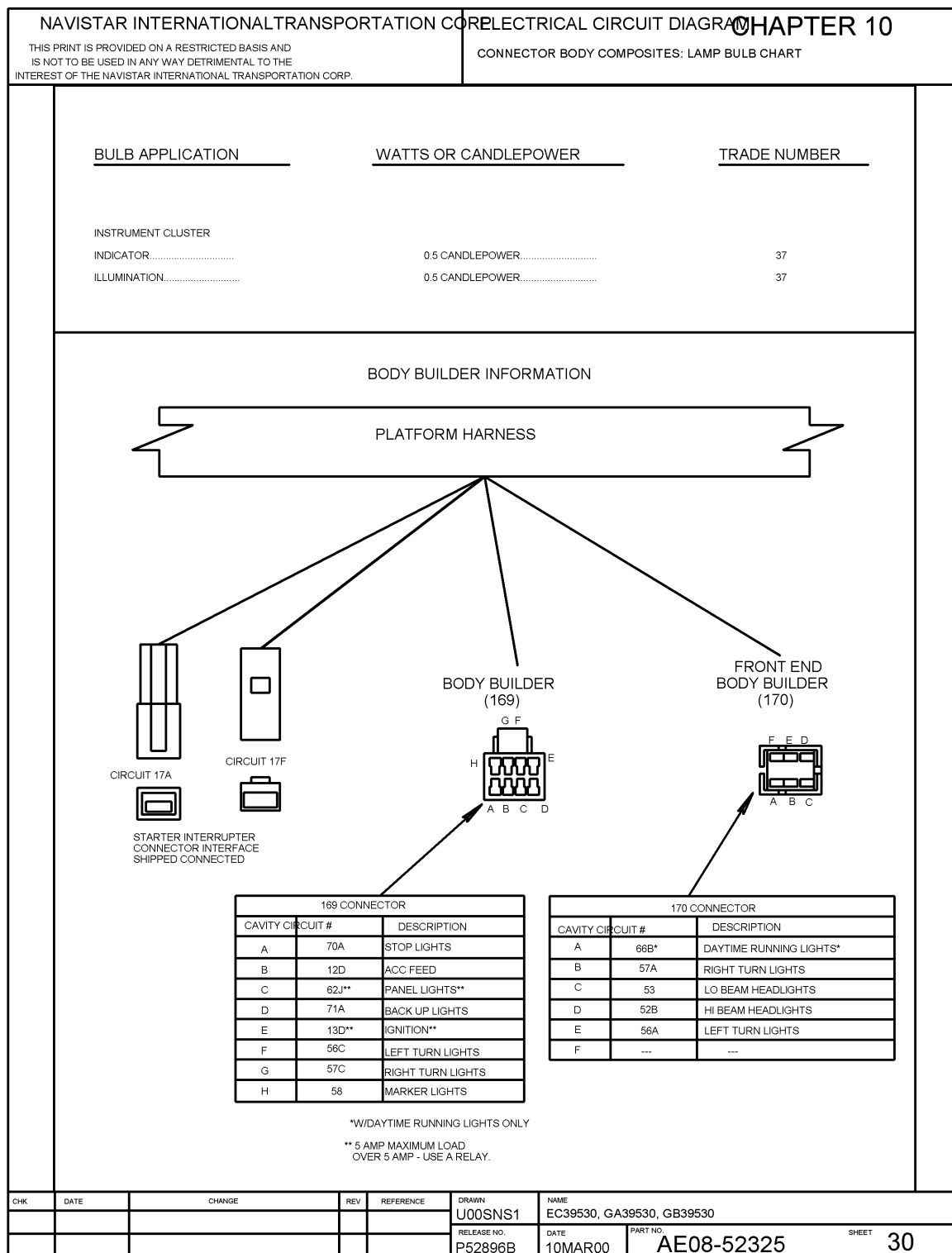


Figure 83 Lamp Bulb Chart

Fuse/Circuit Breaker Chart

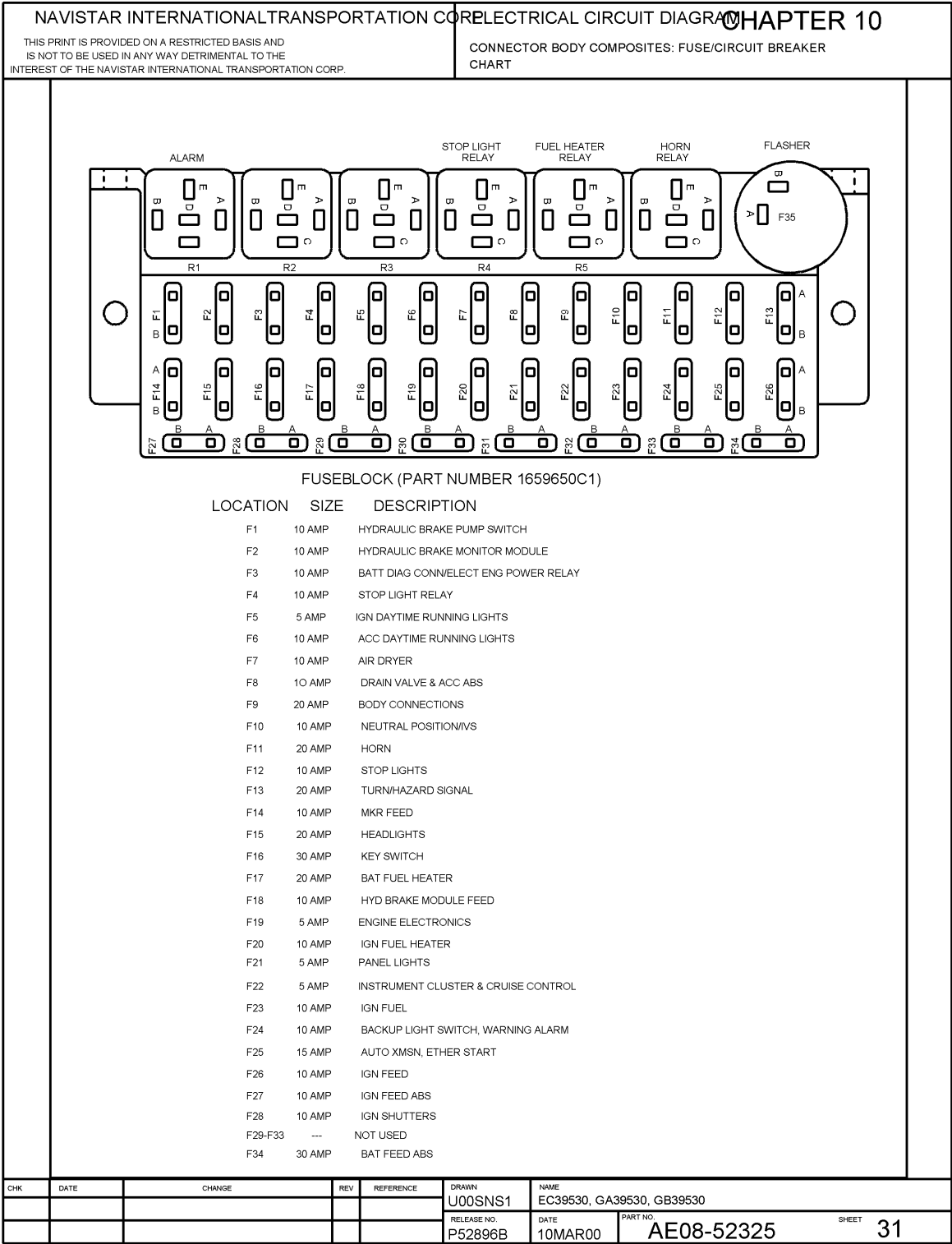


Figure 84 Fuse/Circuit Breaker Chart

2. ELECTRICAL CIRCUIT DIAGRAMS — 3000RE

2.1. INSTRUCTIONS AND CHARTS (CHAPTER 1)

International Circuit Identification Chart, p. 1

NAVISTAR INTERNATIONAL TRANSPORTATION CORPORATION

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ELECTRICAL CIRCUIT DIAGRAM

INSTRUCTIONS & CHARTS: NAVISTAR CIRCUIT IDENTIFICATION CHART

CHAPTER 1

CIRCUIT NUMBER	DESCRIPTION - COLOR	CIRCUIT NUMBER	DESCRIPTION - COLOR
1	GENERATOR - FIELD - LIGHT BLUE	37	FUEL PUMP - TAN
2	GENERATOR - CHARGE - RED	38	
3		39	AIR DRYER - GRAY
4		40	LOW AIR PRESSURE WARNING - GRAY
5		41	FRONT AXLE - GRAY
6		42	
7	ALTERNATOR - RESISTANCE - RED	43	POWER DIVIDER LOCK (PDL) - GRAY
8		44	PARK BRAKE WARNING - GRAY
9		45	ANTI-THEFT WARNING - LIGHT GREEN
10		46	POWER TAKE-OFF WARNING - GRAY
11	GROUND - WHITE	47	SPEEDOMETER - GRAY
12	ACCESSORY FEED - LIGHT BLUE	48	TACHOMETER - GRAY
13	IGNITION FEED - PINK	49	DIFFERENTIAL LOCK - GRAY
14	BATTERY FEED - RED	50	LIGHT SWITCH FEED - YELLOW
15	KEY SWITCH FEED - RED	51	DIMMER SWITCH - YELLOW
16		52	HEADLIGHT - HIGH BEAM - YELLOW
17	STARTER CONTROL - PINK	53	HEADLIGHT - LOW BEAM - YELLOW
18	GLOW PLUG/PRE-HEATER - PINK	54	PARKING/MARKER LIGHTS - BROWN
19	ENGINE SHUT-OFF - GRAY	55	TURN SIGNAL - ORANGE
20		56	TURN SIGNAL LIGHTS - LEFT - ORANGE
21	ETHER START - TAN	57	TURN SIGNAL LIGHTS - RIGHT - ORANGE
22		58	CLEARANCE AND IDENTIFICATION LIGHTS - BROWN
23	ENGINE COOLING - TAN	59	
24	ENGINE BRAKE GRAY	60	HAZZARD LIGHTS - ORANGE
25	PYROMETER - TAN	61	AIR SUSPENSION - GRAY
26	AMMETER - TAN	62	PANEL LIGHTS - DARK BLUE
27	VOLTMETER - TAN	63	COURTESY AND DOME LIGHTS - DARK BLUE
28	INSTRUMENT FEED - TAN	64	AUXILIARY LIGHTS - YELLOW
29	ENGINE WATER TEMPERATURE - TAN	65	5TH WHEEL/WORK LIGHT - ORANGE
30	ENGINE OIL TEMPERATURE - TAN	66	DAYTIME RUNNING LIGHTS - YELLOW
31	TRANSMISSION OIL TEMPERATURE - TAN	67	
32	AXLE OIL TEMPERATURE - TAN	68	TAIL LIGHTS - BROWN
33	ENGINE OIL LEVEL - TAN	69	LICENSE PLATE LIGHT - BROWN
34	WATER LEVEL - TAN	70	STOP LIGHTS - ORANGE
35	ENGINE OIL PRESSURE - TAN	71	BACK-UP LIGHTS - ORANGE
36	FUEL LEVEL - TAN	72	TRAILER AUXILIARY - ORANGE

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	
	08DEC98	RMVD MODELS FROM	A	P52424Y	U00CLH7		
		TITLE BLOCK			RELEASE NO. P52550D	DATE 09SEP98	PART NO. AE08-52106
						SHEET	1

Figure 85 International Circuit Identification Chart

International Circuit Identification Chart, p. 2

NAVISTAR INTERNATIONAL TRANSPORTATION CORPORATION ELECTRICAL CIRCUIT DIAGRAM CHAPTER 1			
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CIRCUIT NUMBER	DESCRIPTION - COLOR	CIRCUIT NUMBER	DESCRIPTION - COLOR
73		87	WINDSHIELD WASHER - GRAY
74		88	CLOCK/HOURMETER - LIGHT GREEN
75	HEATER BLOWER MOTOR - LIGHT GREEN	89	
76	AUXILIARY FAN - LIGHT GREEN	90	HYDRAULIC BRAKE PUMP - GRAY
77	AIR CONDITIONER - LIGHT GREEN	91	INTERCOMMUNICATIONS - VIOLET
78	MIRRORS - HEATED * MOTORIZED - LIGHT GREEN	92	TRANSMISSION (ELECTRONIC) - TAN
79		93	AXLE SHIFT CONTROL - TAN
80		94	ANTILOCK BRAKES - GRAY
81	POWER DOOR LOCKS - LIGHT GREEN	95	EXHAUST EMISSION - TAN
82	WINDSHIELD WIPERS - GRAY	96	SNOW PLOW LIGHTS - YELLOW
83	POWER WINDOW - LIGHT GREEN	97	CRUISE CONTROL AND ELECTRONIC ENGINE - VIOLET
84	CIGAR LIGHTER - LIGHT GREEN	98	DATA LINK AND DIAGNOSTICS - BLACK
85	HORN - ELECTRIC - GRAY	99	THROTTLE POSITION SENSOR - VIOLET
86	RADIO - ENTERTAINMENT - LIGHT GREEN		
* NOTE: NOT ALL CIRCUITS MAY BE USED. COLORS ABOVE ARE NEW STD COLORS FOR MAJOR HARNESSSES.			
CHK	DATE	CHANGE	REV REFERENCE
			U00CLH7 RELEASE NO. P52550D NAME RE30030, GC3953, GD3953 DATE 09SEP98 PART NO. AE08-52106
			SHEET 2

Figure 86 International Circuit Identification Chart

Circuit Diagram Instructions, p. 3

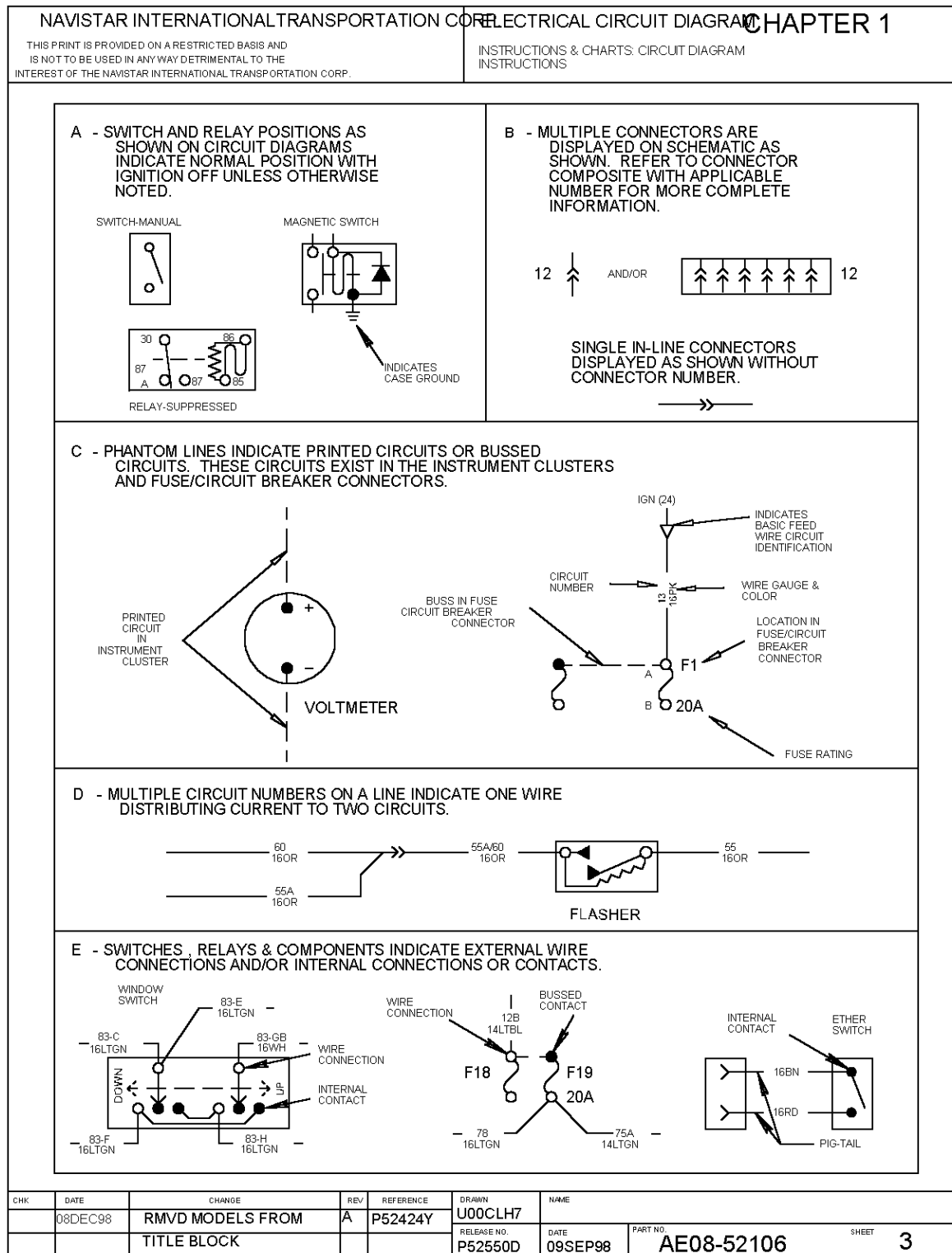


Figure 87 Circuit Diagram Instructions

Circuit Diagram Instructions, p. 4

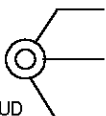
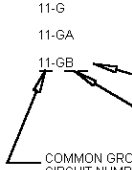
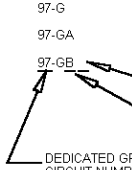
NAVISTAR INTERNATIONAL TRANSPORTATION CORP.				ELECTRICAL CIRCUIT DIAGRAM CHAPTER 1																																																			
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F - JUNCTIONS ARE USED TO IDENTIFY MULTIPLE CONNECTIONS WITH A COMMON FEED OR GROUND. THE JUNCTION MAY BE A STUD OR A CONNECTOR WITH ALL CIRCUITS CONNECTED INTERNALLY BY BUS BAR.  STUD OR ADAPTER  BUS ADAPTER  GROUND JUNCTION THIS VEHICLE USES BUSSED CONNECTORS AND ARE REFERRED TO AS ADAPTERS - GROUND, FEED, IGNITION, ACCESSORY OR BATTERY. G - CIRCUIT 11 DENOTES ANY COMMON GROUND. (MORE THAN ONE CIRCUIT). ANY DEDICATE GROUND CIRCUIT IS IDENTIFIED WITH THAT PARTICULAR SYSTEM CIRCUIT NUMBER. (E.G CIRCUIT 97 CRUISE CONTROL, IS IDENTIFIED PER EXAMPLE). NOTE: FOR CIRCUIT DESCRIPTION OTHER THAN GROUNDS, NEITHER THE LETTER G OR THE COLOR WHITE WILL BE USED. GROUND CIRCUITS ARE DESCRIBED THUS:  11-G 11-GA 11-GB SUFFIX G IS NOT A SUFFIX BUT INDICATES A GROUND CIRCUIT  97-G 97-GA 97-GB SUFFIX G IS NOT A SUFFIX BUT INDICATES A GROUND CIRCUIT H - ABBREVIATIONS: COLOR, NOUN AND ENGINE <u>COLOR ABBREVIATION</u> <table style="width: 100%; font-size: small;"> <tr><td>AQ - AQUA</td><td>LT GN - LIGHT GREEN</td></tr> <tr><td>BK - BLACK</td><td>OR - ORANGE</td></tr> <tr><td>BL - BLUE</td><td>PK - PINK</td></tr> <tr><td>BN - BROWN</td><td>PL - PURPLE</td></tr> <tr><td>DK GN - DARK GREEN</td><td>RD - RED</td></tr> <tr><td>GD - GOLD</td><td>SIL - SILVER</td></tr> <tr><td>GY - GRAY</td><td>TN - TAN</td></tr> <tr><td>GN - GREEN</td><td>VT - VIOLET</td></tr> <tr><td>LT BL - LIGHT BLUE</td><td>WH - WHITE</td></tr> <tr><td></td><td>YL - YELLOW</td></tr> </table> <u>NOUN ABBREVIATION</u> <table style="width: 100%; font-size: small;"> <tr><td>A — ACCESSORY</td><td>G — GROUND</td></tr> <tr><td>ACC — AIR CONDITIONER</td><td>GND — GROUND</td></tr> <tr><td>AUX - AUXILIARY</td><td>I — IGNITION</td></tr> <tr><td>AWG - AMERICAN WIRE GAUGE</td><td>IGN — IGNITION</td></tr> <tr><td>B — BATTERY</td><td>IND - INDICATOR</td></tr> <tr><td>CONN - CONNECTION OR CONNECTOR</td><td>L - LEFT</td></tr> <tr><td>DRL - DAYTIME RUNNING LIGHTS</td><td>LT - LIGHT</td></tr> <tr><td>ENG - ENGINE</td><td>N/ - NOT WITH</td></tr> <tr><td>FL - FUSIBLE LINK</td><td>OPT - OPTIONAL</td></tr> <tr><td>FWD - FORWARD</td><td>R - RIGHT</td></tr> <tr><td>GA - GAUGE</td><td>S - START OR SENDER</td></tr> <tr><td></td><td>THERMO - THERMOSTAT</td></tr> <tr><td></td><td>W/ - WITH</td></tr> <tr><td></td><td>W/O - WITHOUT</td></tr> </table>								AQ - AQUA	LT GN - LIGHT GREEN	BK - BLACK	OR - ORANGE	BL - BLUE	PK - PINK	BN - BROWN	PL - PURPLE	DK GN - DARK GREEN	RD - RED	GD - GOLD	SIL - SILVER	GY - GRAY	TN - TAN	GN - GREEN	VT - VIOLET	LT BL - LIGHT BLUE	WH - WHITE		YL - YELLOW	A — ACCESSORY	G — GROUND	ACC — AIR CONDITIONER	GND — GROUND	AUX - AUXILIARY	I — IGNITION	AWG - AMERICAN WIRE GAUGE	IGN — IGNITION	B — BATTERY	IND - INDICATOR	CONN - CONNECTION OR CONNECTOR	L - LEFT	DRL - DAYTIME RUNNING LIGHTS	LT - LIGHT	ENG - ENGINE	N/ - NOT WITH	FL - FUSIBLE LINK	OPT - OPTIONAL	FWD - FORWARD	R - RIGHT	GA - GAUGE	S - START OR SENDER		THERMO - THERMOSTAT		W/ - WITH		W/O - WITHOUT
AQ - AQUA	LT GN - LIGHT GREEN																																																						
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GY - GRAY	TN - TAN																																																						
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	THERMO - THERMOSTAT																																																						
	W/ - WITH																																																						
	W/O - WITHOUT																																																						

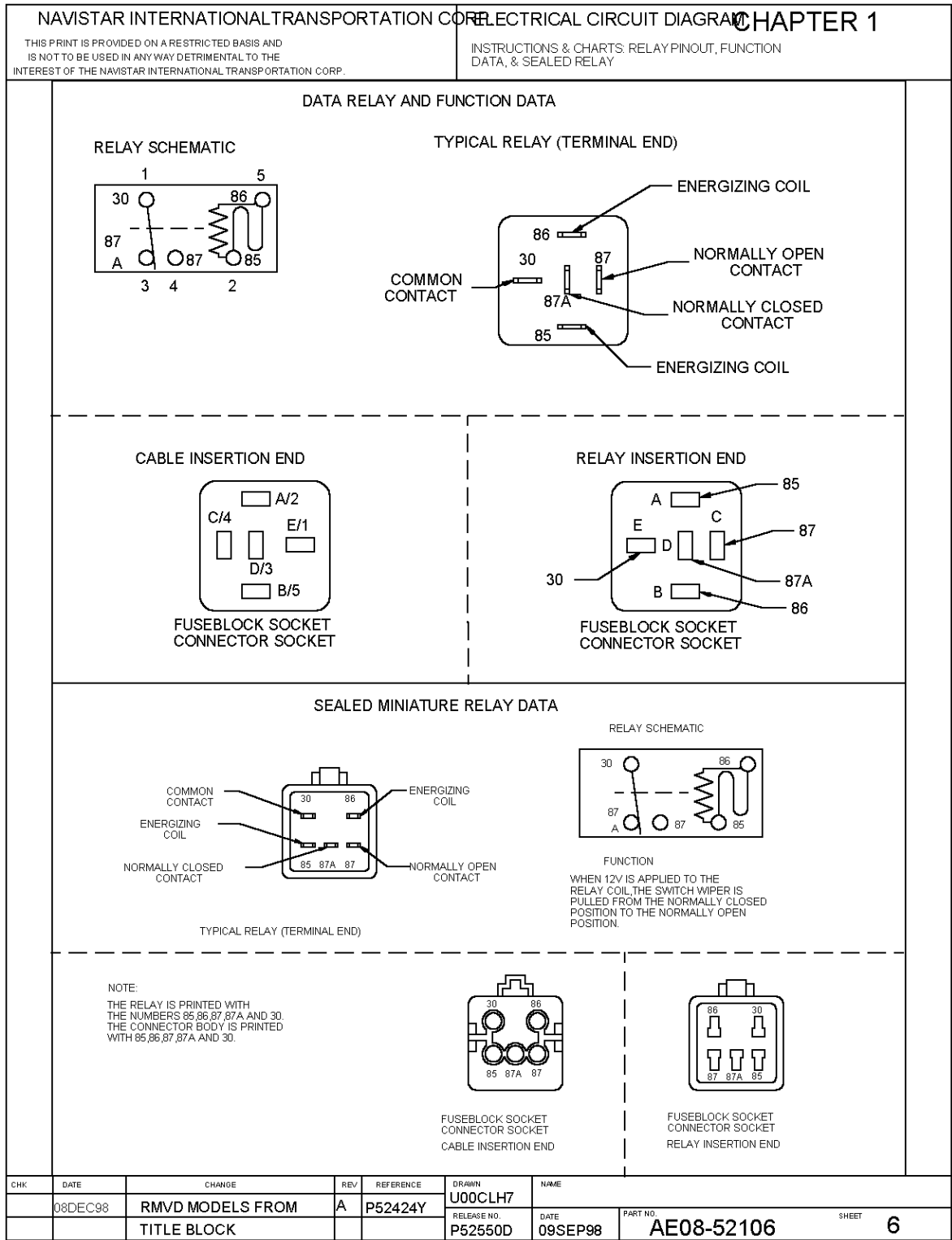
Figure 88 Circuit Diagram Instructions

Schematic Symbols, p. 5

NAVISTAR INTERNATIONAL TRANSPORTATION CORPORATION				ELECTRICAL CIRCUIT DIAGRAMS CHAPTER 1			
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SYMBOL		DESCRIPTION		SYMBOL		DESCRIPTION	
		MALE/FEMALE IN-LINE CONNECTION				ALARM-ELECTRONIC	
		FEMALE TERMINAL				SOLENOID-GENERAL USAGE	
		MALE TERMINAL				MOTOR-ELECTRIC	
		GROUND				CIGAR LIGHTER	
		FUSE / CIRCUIT BREAKER				HORN	
TYPE 1 TYPE 2 OR 3						SPEAKER-SOUND SYSTEM	
		CIRCUIT BREAKER				FLASHER-TURN SIGNAL, HAZARD	
						MAGNETIC SWITCH	
		DIODE				LIGHT-SINGLE FILAMENT	
		LIGHT EMITTING DIODE (LED)				LIGHT-DOUBLE FILAMENT	
		FUSIBLE LINK				SENDER-OIL, WATER, FUEL, TEMPERATURE	
		RESISTOR				CLUTCH PEDAL SWITCH	
		SWITCH CONTACT, NORMALLY OPEN				COOLANT LEVEL PROBE	
		SWITCH CONTACT, NORMALLY CLOSED				WATER PROBE (WIF)	
		JUNCTION POINT					
		SPLICE					
		SWITCH-PUSH BUTTON					
		SWITCH-PRESSURE					
		SWITCH-MANUAL/MECHANICAL					
		SWITCH-WITH LIGHT					
		RELAY-SUPPRESSED					
		ACCELERATOR POSITION SENSOR					
CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	
	08DEC98	RMVD MODELS FROM	A	P52424Y	U00CLH7		
		TITLE BLOCK			RELEASE NO. P52550D	DATE 09SEP98	PART NO. AE08-52106 SHEET 5

Figure 89 Schematic Symbols

Relay Pinout, Function Data, and Sealed Relay, p. 6



2.2. 12 VOLT POWER DISTRIBUTION (CHAPTER 2)

Battery/Alternator With T 444E, p. 1

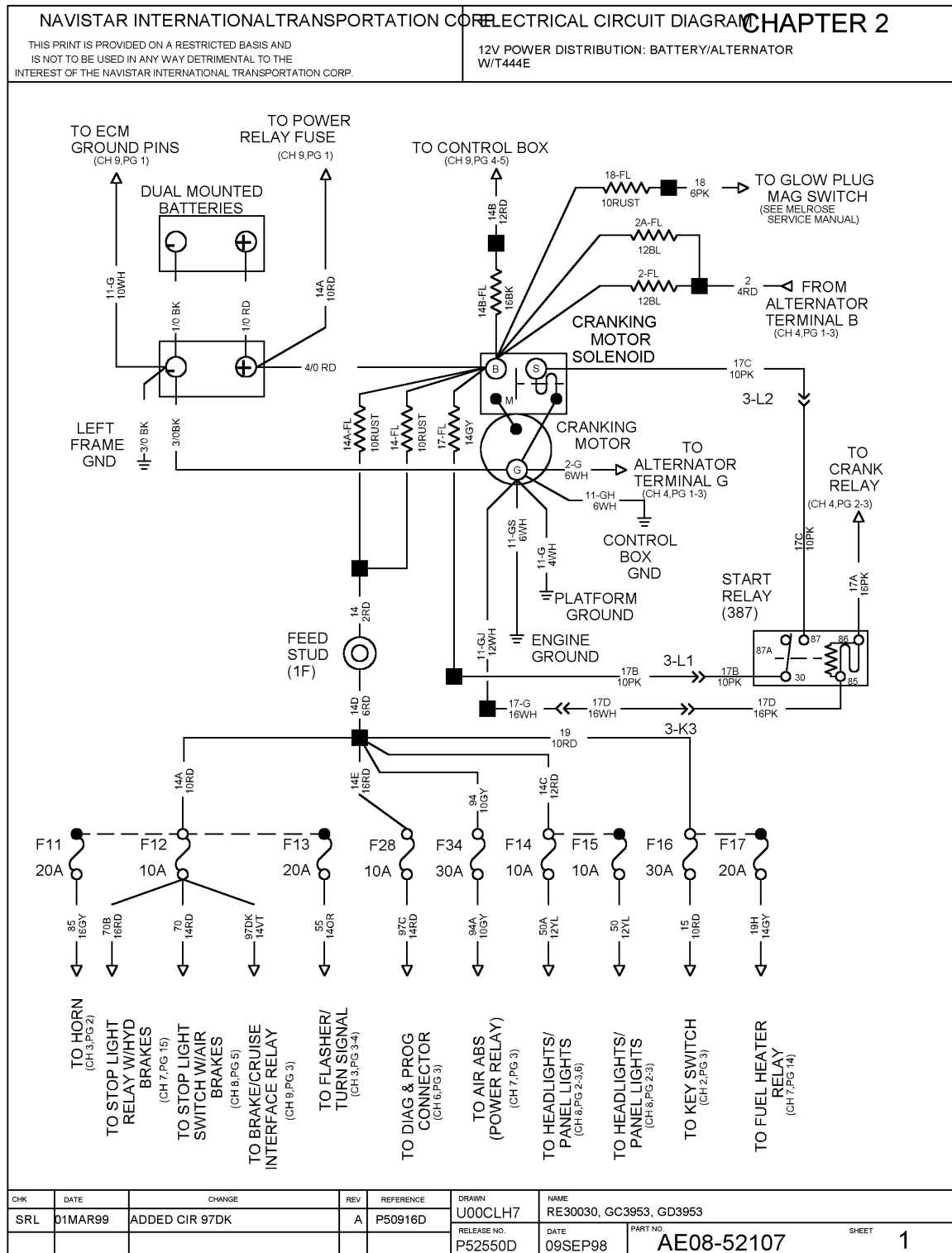
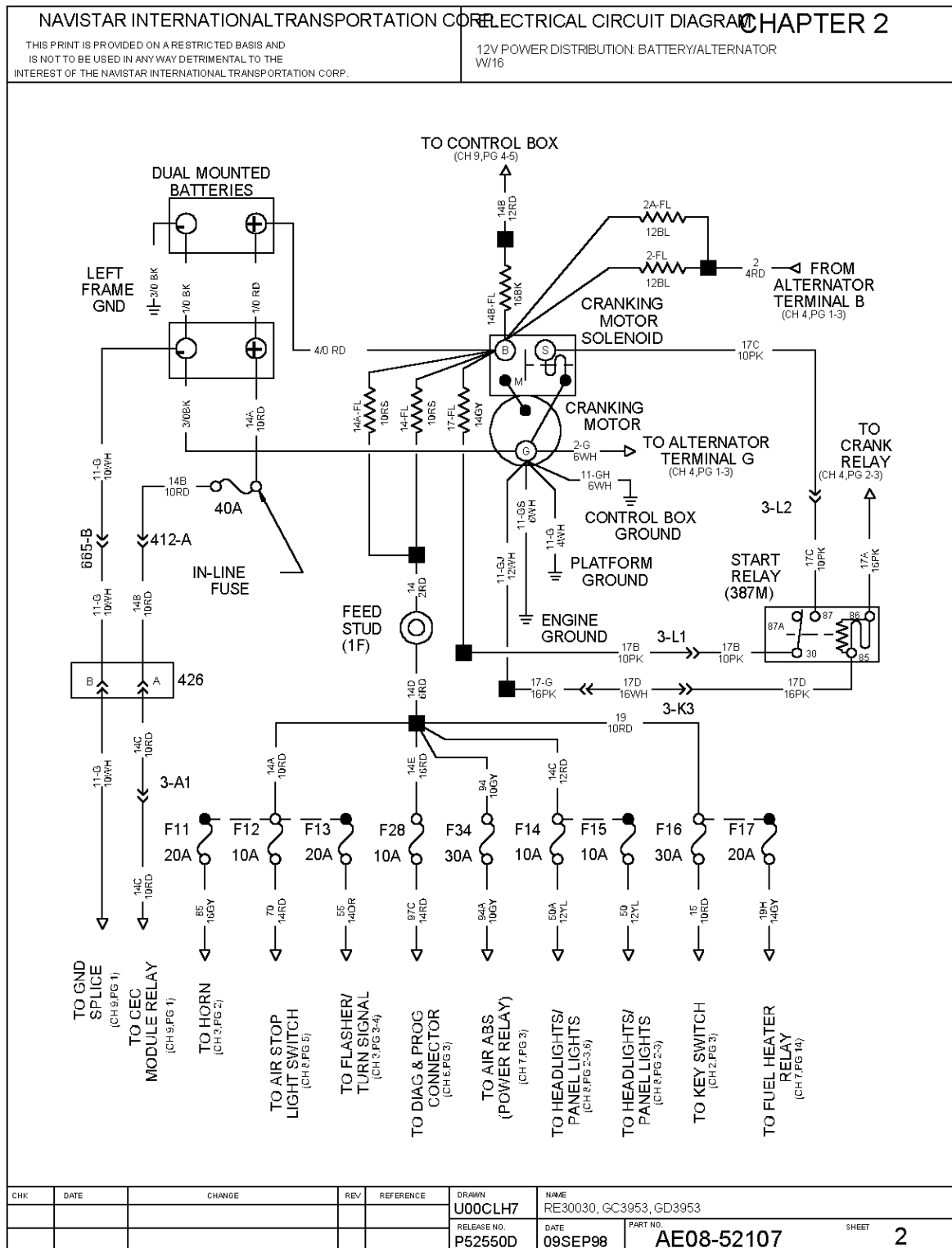


Figure 91 Battery/Alternator With T 444E

Battery/Alternator With I6, p. 2

Figure 92 Battery/Alternator With I6

Key Switch, p. 3

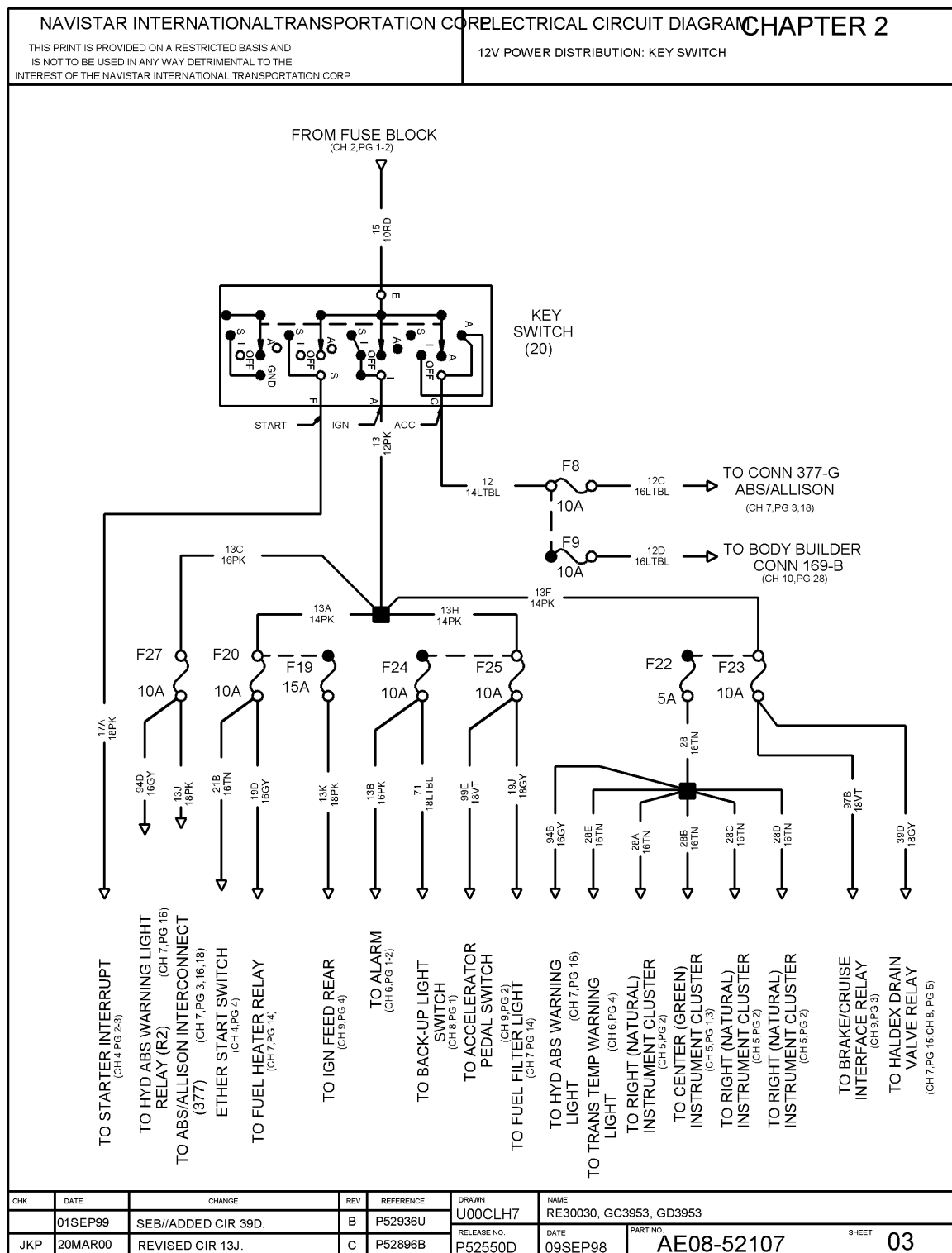
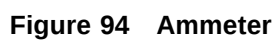


Figure 93 Key Switch

Ammeter, p. 1



Horn, p. 2

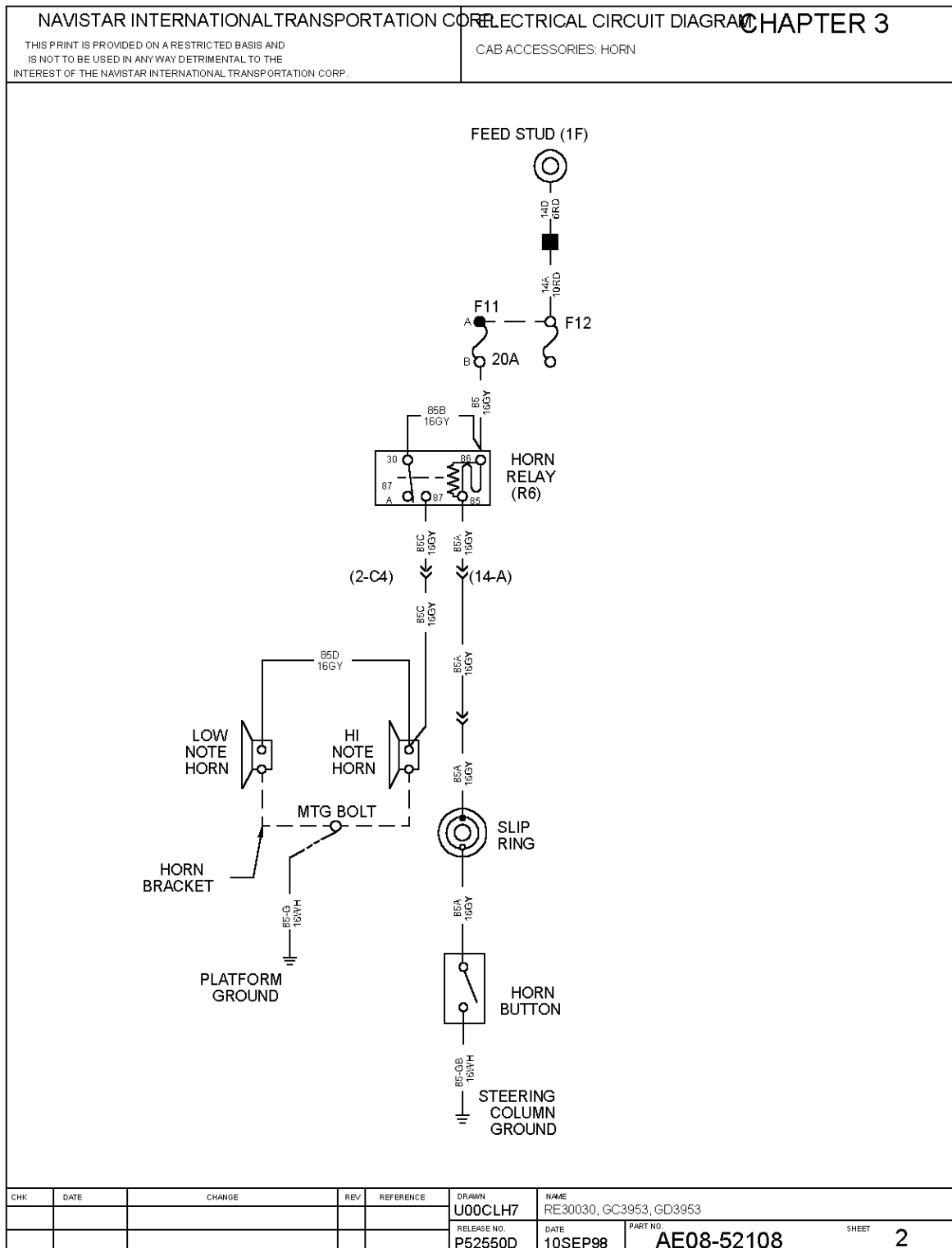
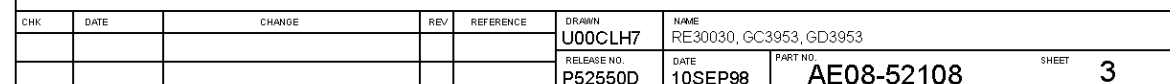


Figure 95 Horn

NAVISTAR INTERNATIONAL TRANSPORTATION CORPORATION ELECTRICAL CIRCUIT DIAGRAM CHAPTER 3

CAB ACCESSORIES: TURN SIGNALS, INTERNATIONAL
T/S SWITCH (STATIONARY COLUMN)



s08208Y

Turn Signals, Douglas Turn Signal Switch (Tilt Column), p. 4

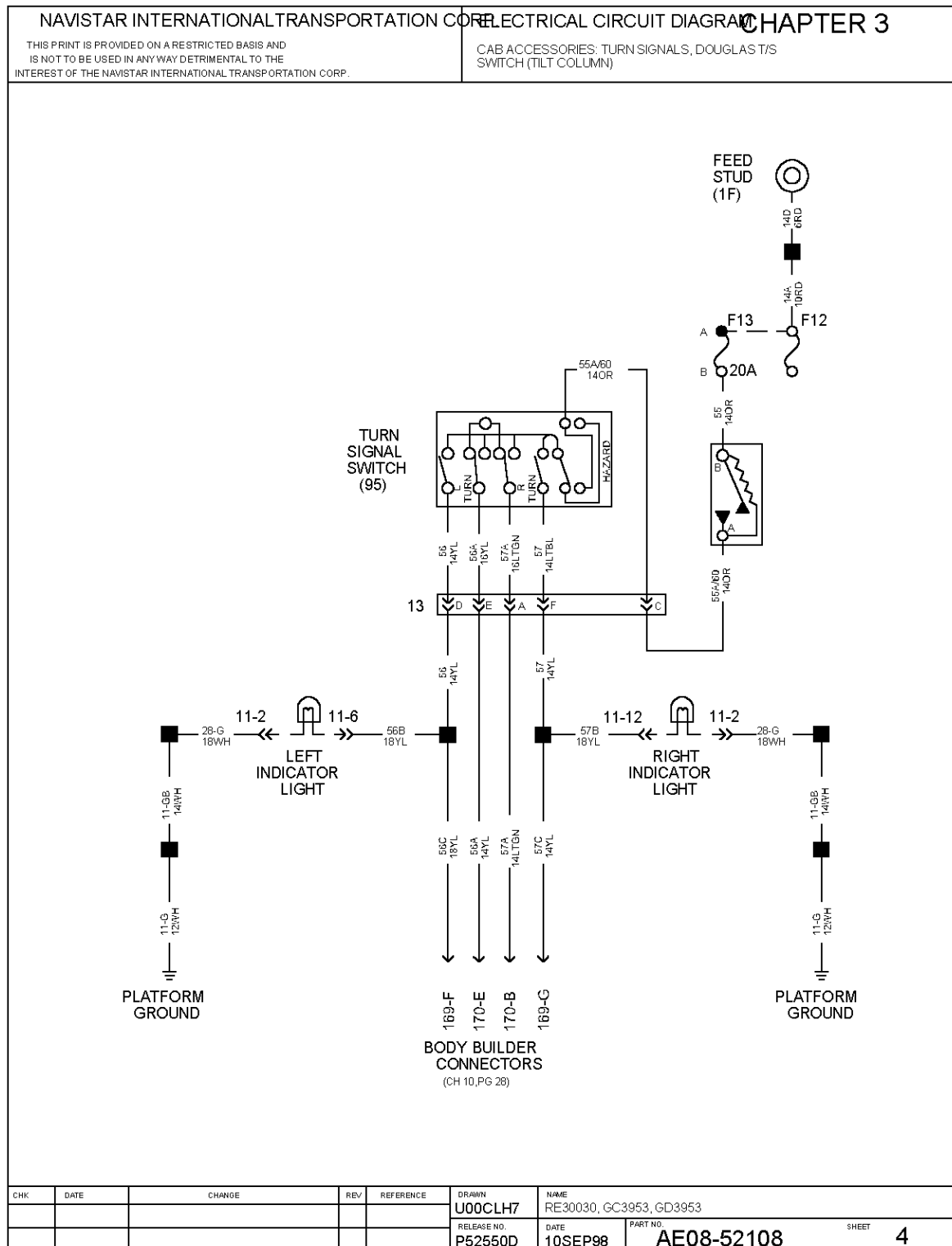
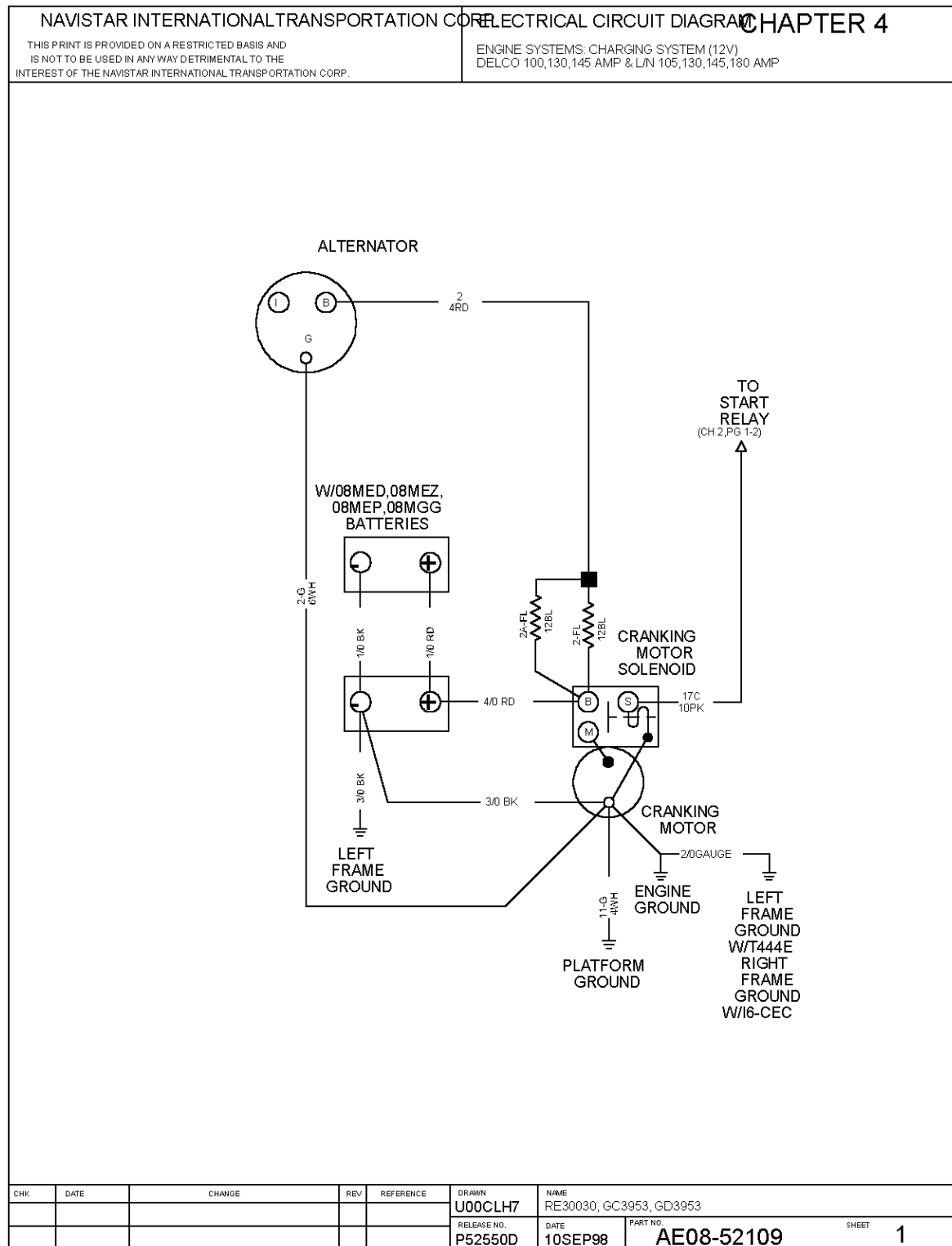


Figure 97 Turn Signals, Douglas Turn Signal Switch (Tilt Column)

2.4. ENGINE SYSTEMS (CHAPTER 4)**Charging System (12V) Delco 100, 130, 145 Amp and L/N 105, 130, 145, 180 Amp, p. 1****Figure 98 Charging System (12V) Delco 100, 130, 145 Amp and L/N 105, 130, 145, 180 Amp**

Cranking System (12V), Optional Starter Overcrank Protection With T 444E, p. 2

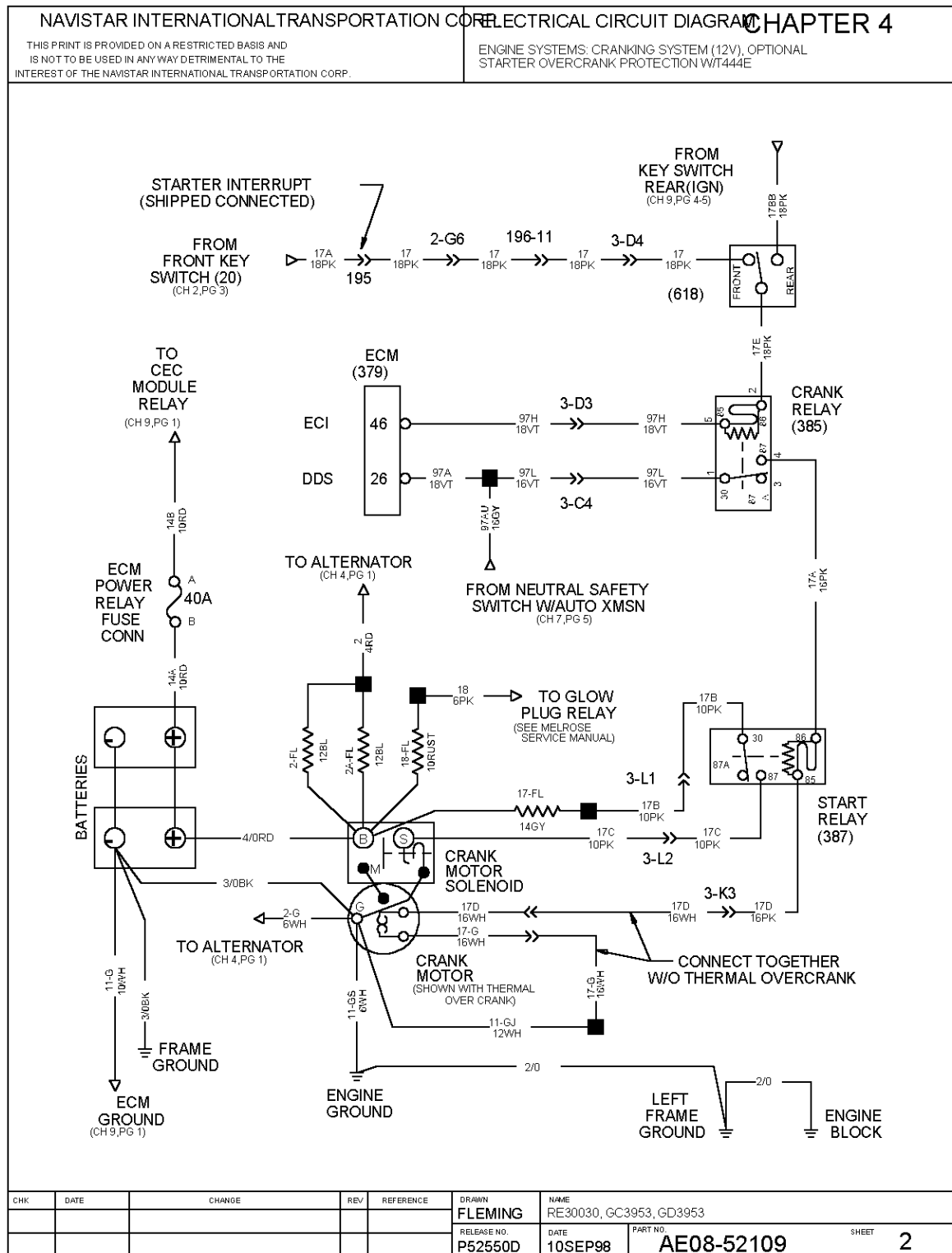


Figure 99 Cranking System (12V), Optional Starter Overcrank Protection With T 444E

Cranking System (12V), Optional Starter Overcrank Protection With I6, p. 3

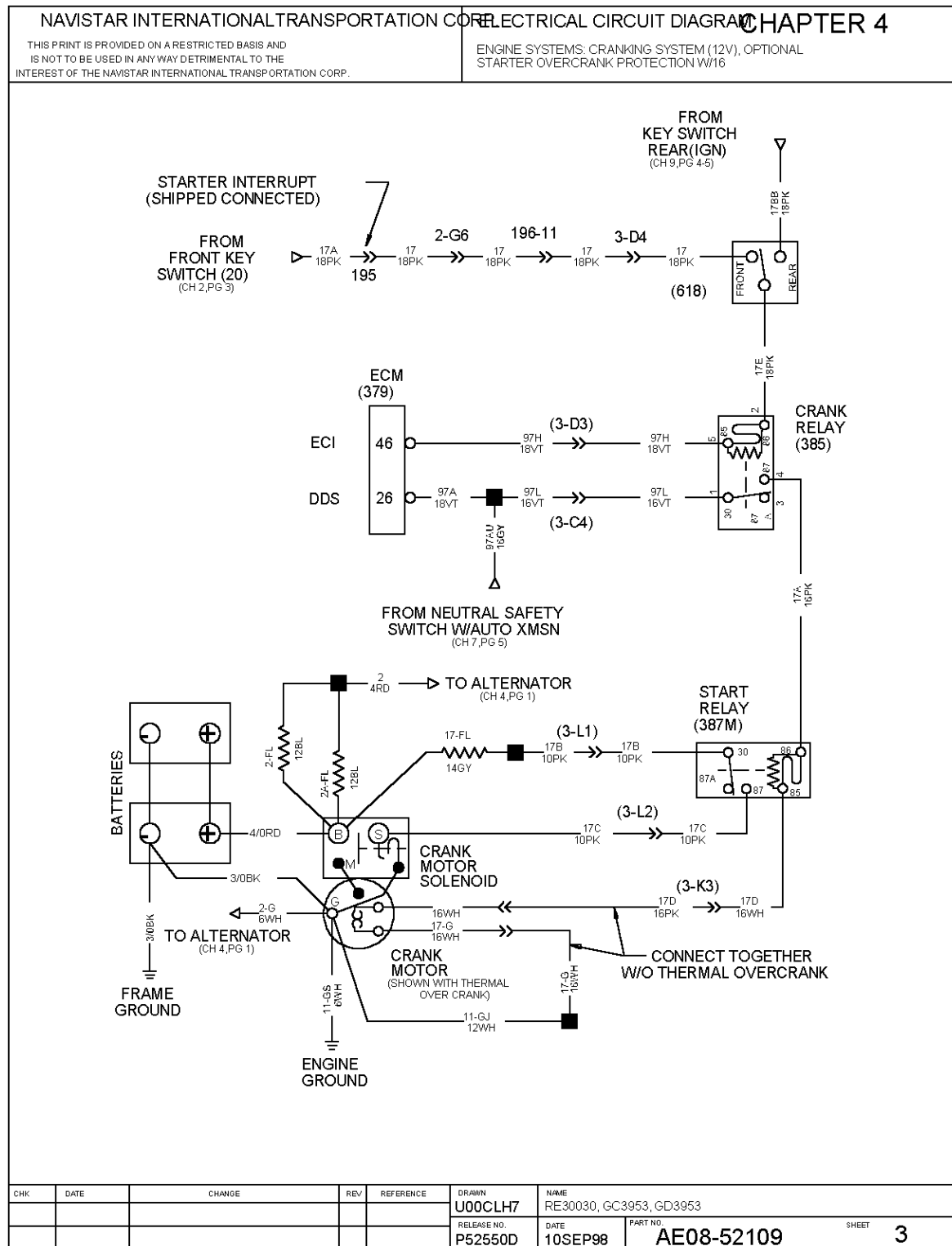


Figure 100 Cranking System (12V), Optional Starter Overcrank Protection With I6

Ether Start With I6, p. 4

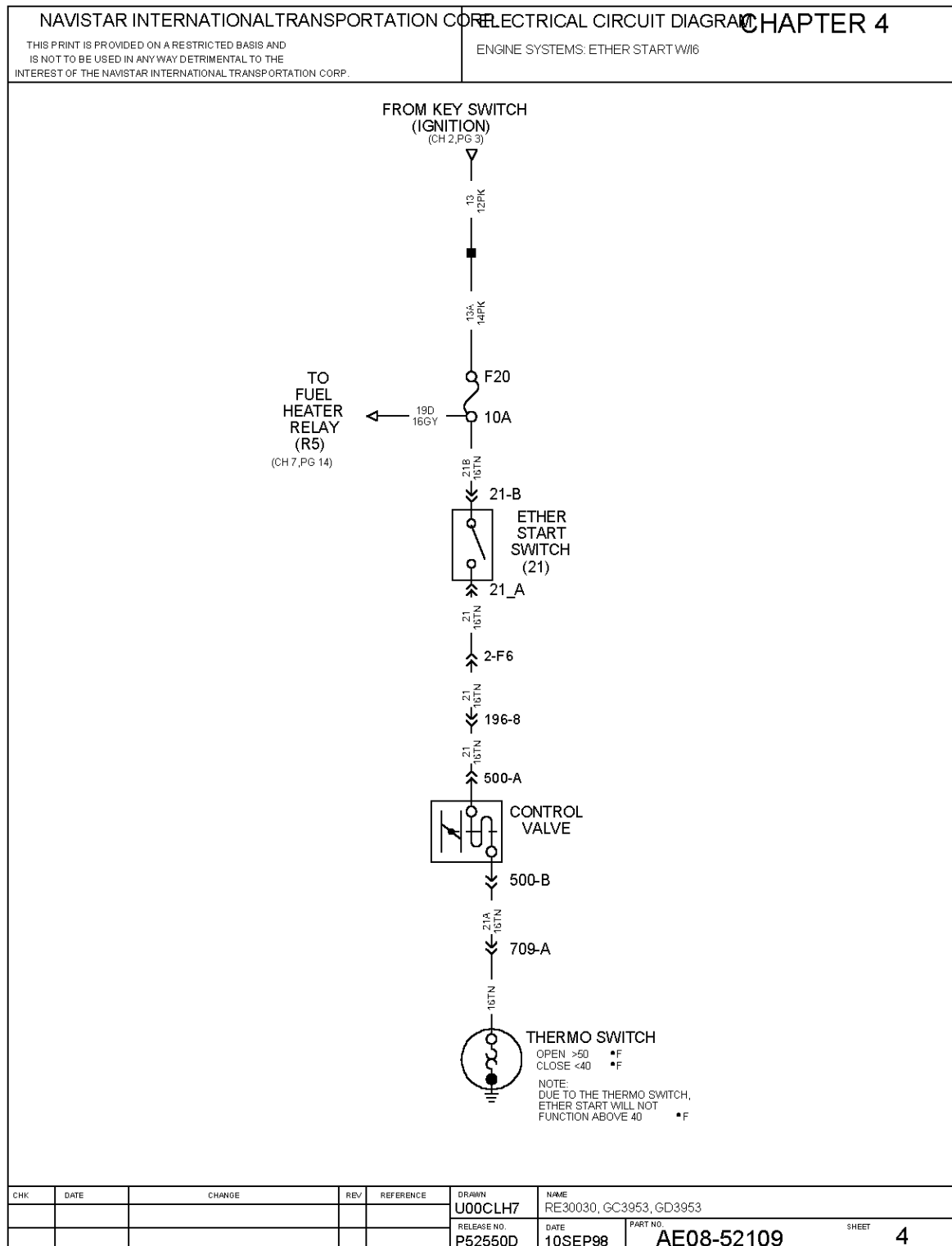


Figure 101 Ether Start With I6

Schwitzer Fan With Electric Solenoid Control With T 444E or With I6, p. 5

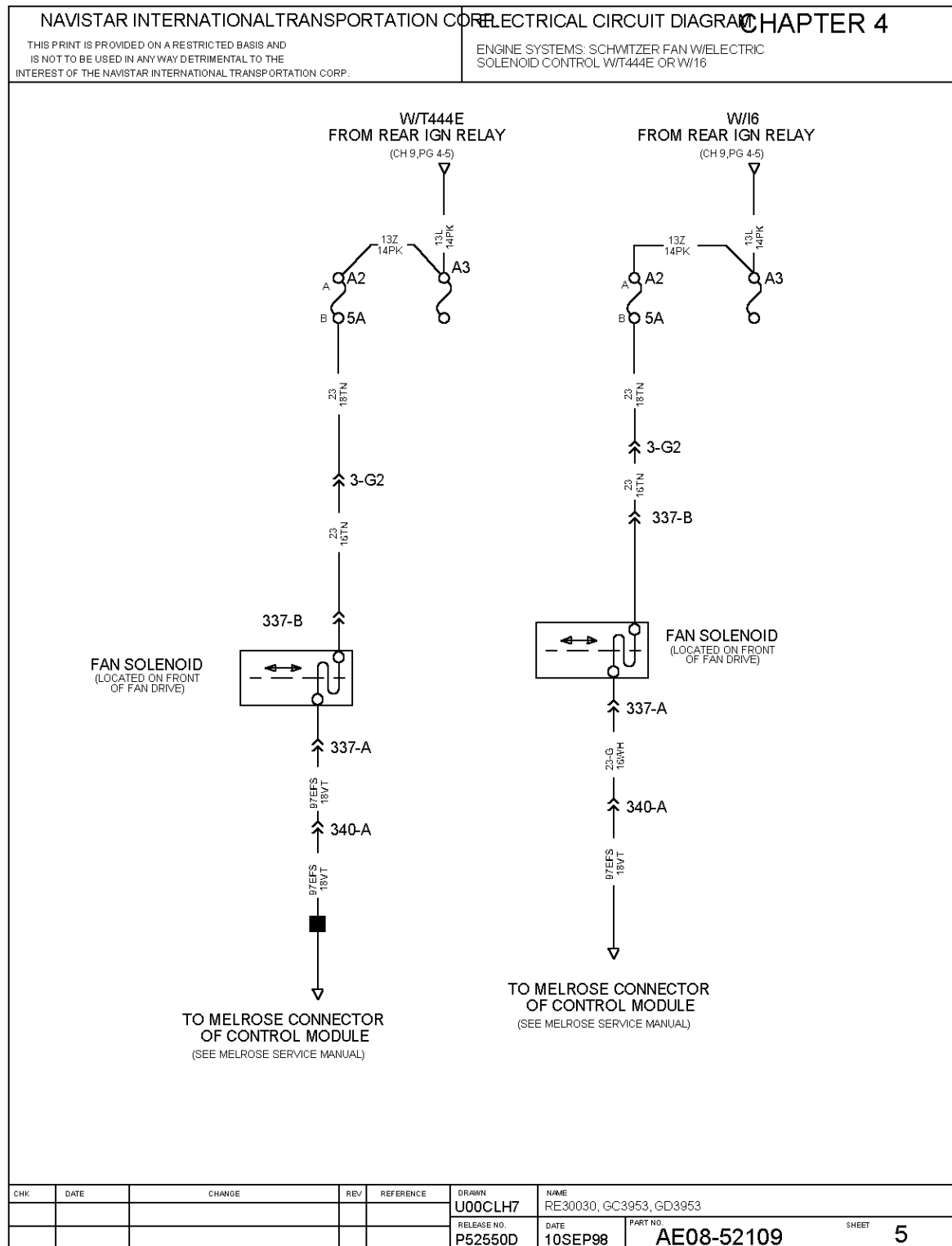


Figure 102 Schwitzer Fan With Electric Solenoid Control With T 444E or With I6

Fuel Level Gauge, p. 1



Speedometer, Tachometer, Voltmeter, Engine Oil Pressure, Water Temperature, p. 2

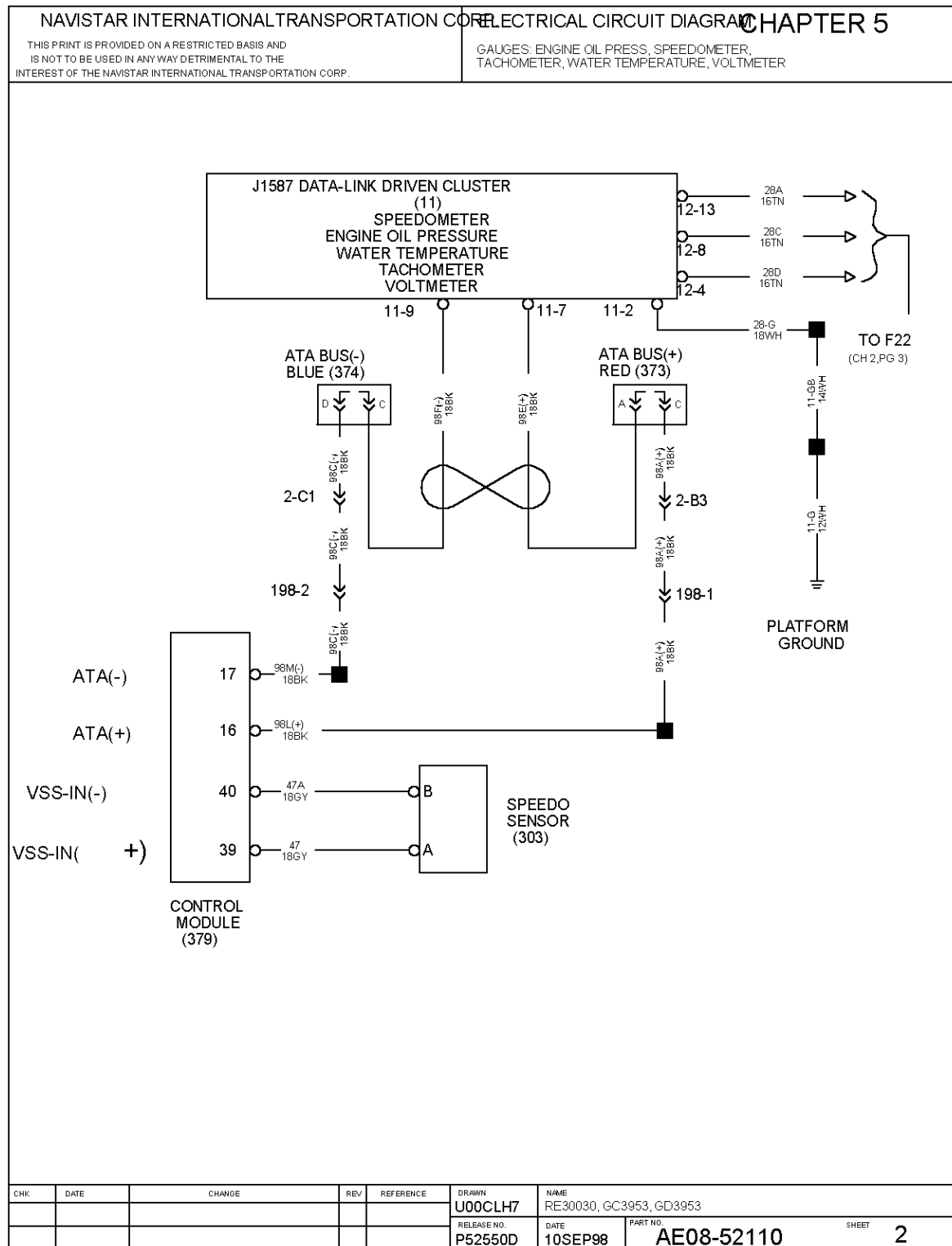


Figure 104 Speedometer, Tachometer, Voltmeter, Engine Oil Pressure, Water Temperature

Transmission Oil Temperature Gauge, p. 3

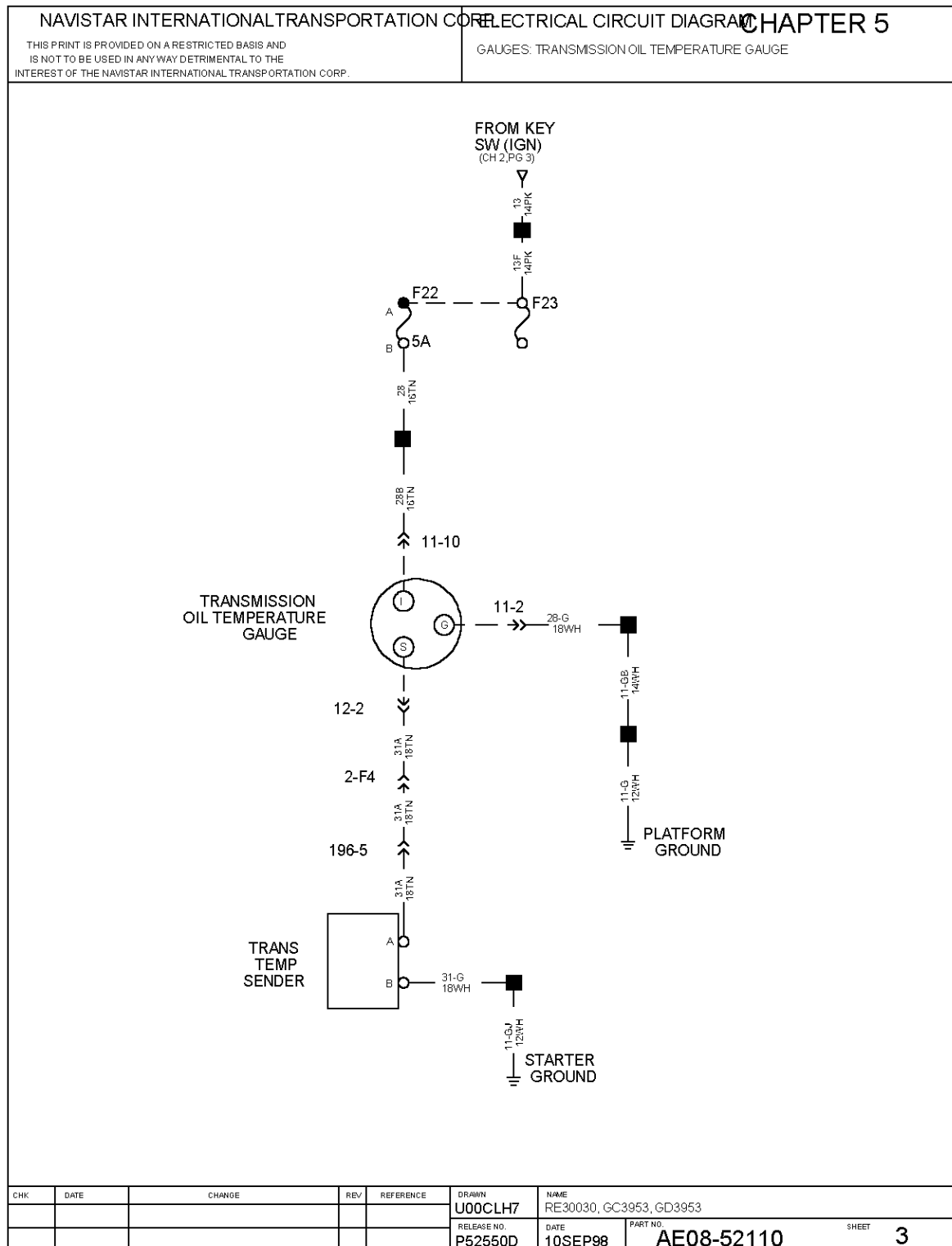


Figure 105 Transmission Oil Temperature Gauge

2.6. WARNING LIGHTS (CHAPTER 6)

Low Oil Pressure/High Water Temp/Low Coolant Level/Brake Warning (Air) Lights and Alarms, p. 1

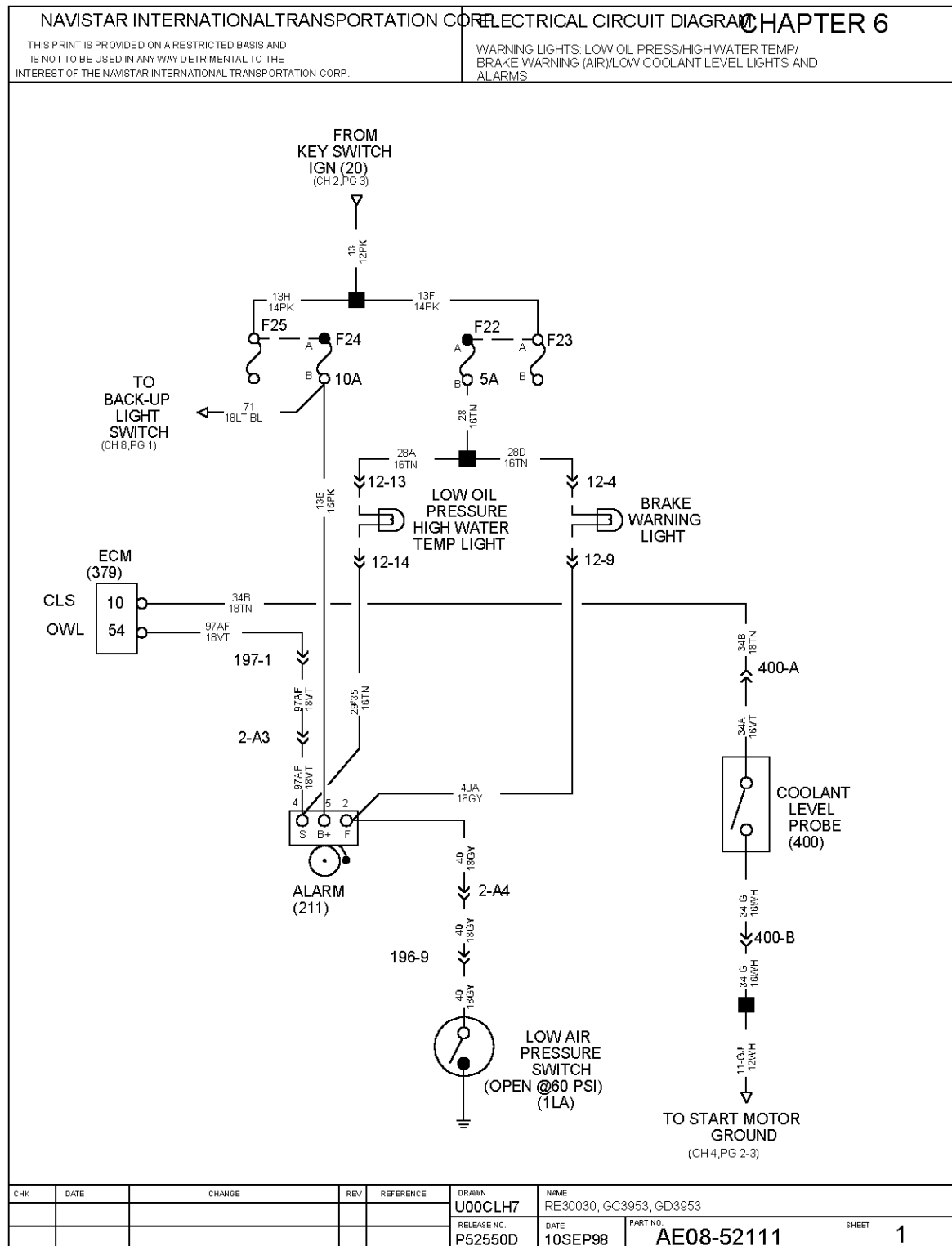


Figure 106 Low Oil Pressure/High Water Temp/Low Coolant Level/Brake Warning (Air) Lights/Alarms

Low Oil Pressure/High Water Temperature/Low Coolant Level/Brake Warning (Hyd.) Lights and Alarms, p. 2

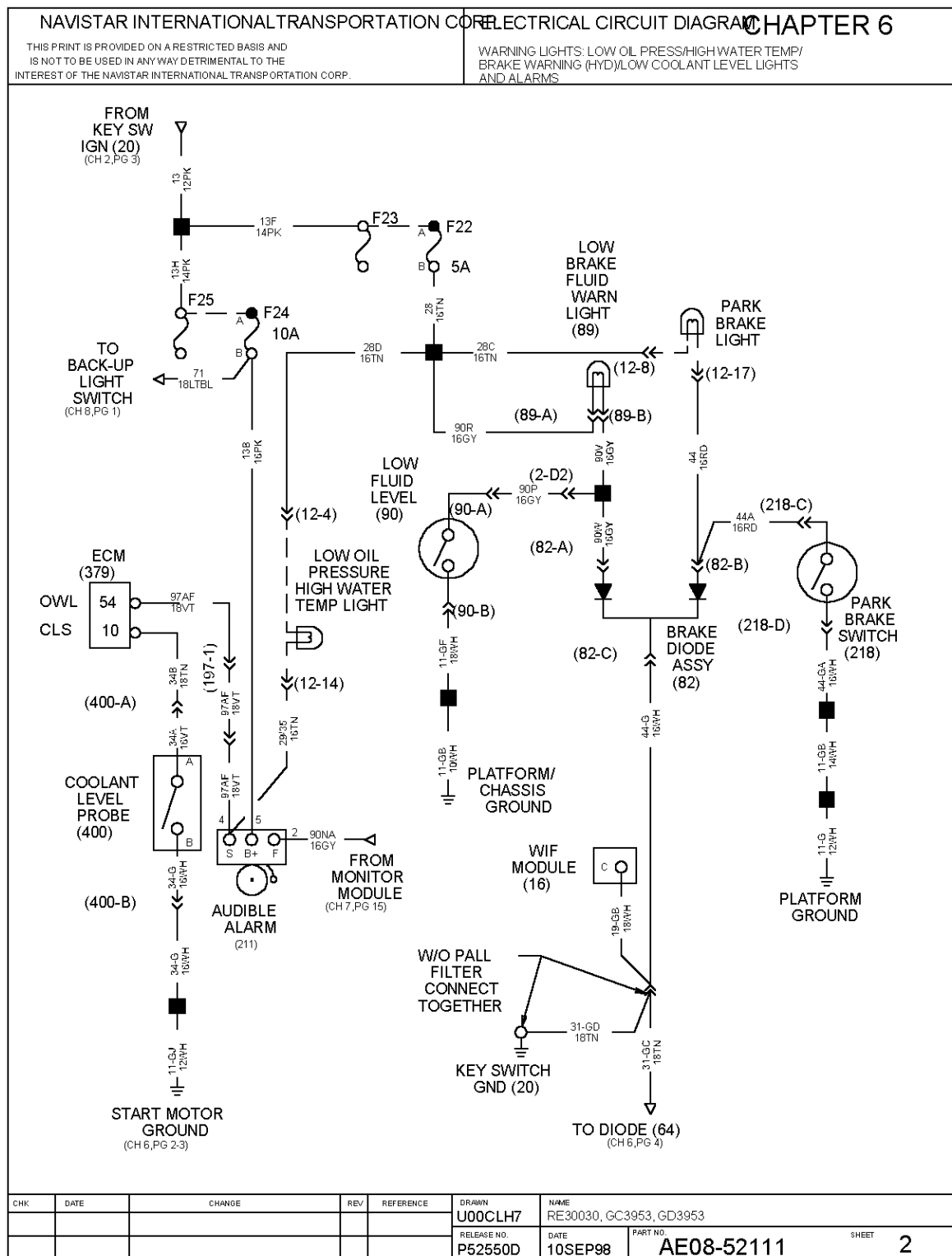
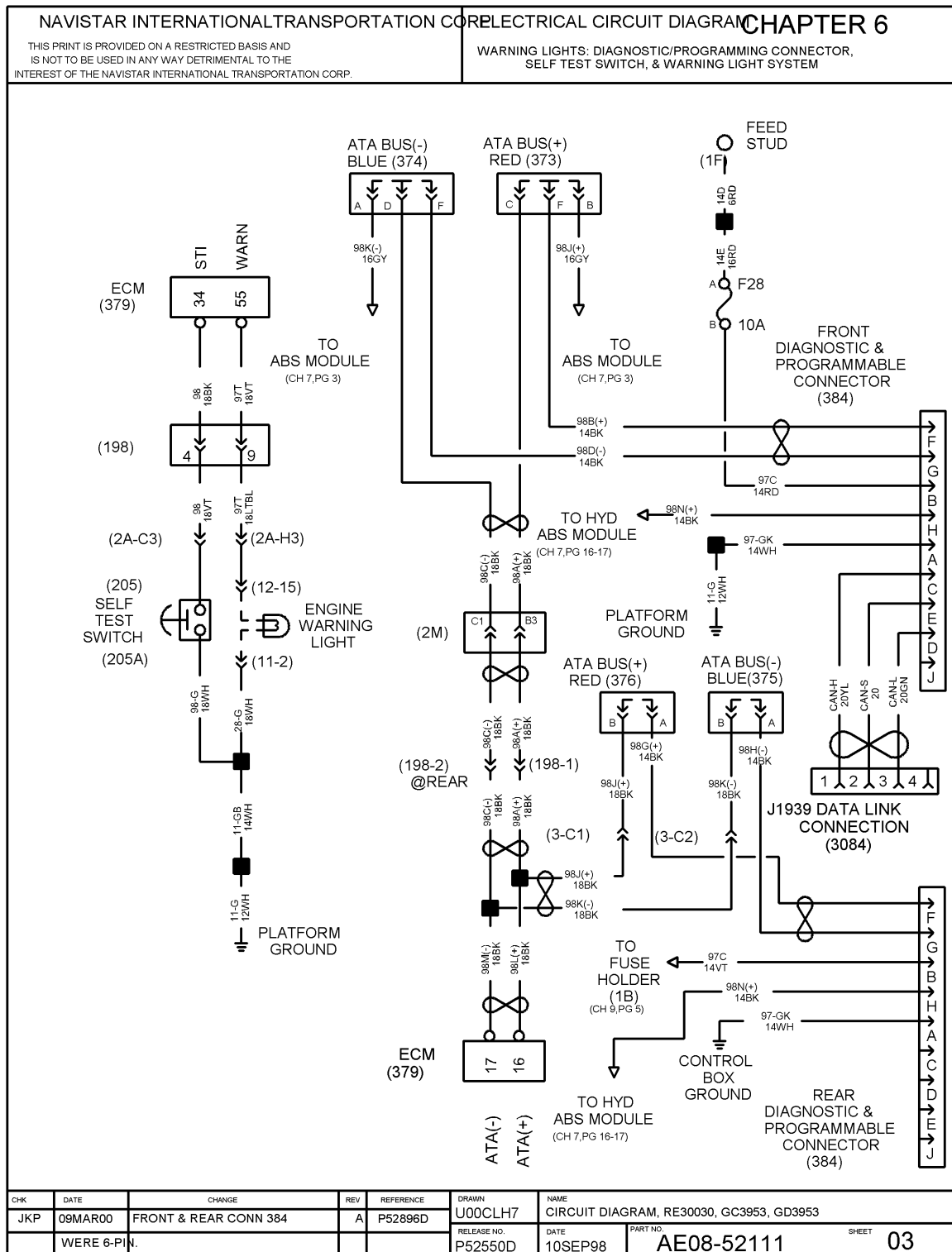


Figure 107 Low Oil Pressure/High Water Temperature/Low Coolant Level/Brake Warning (Hyd.) Lights and Alarms

Diagnostic/Programming Connector and Self-Test Switch and Warning Light System, p. 3

Figure 108 Diagnostic/Programming Connector and Self-Test Switch and Warning Light System

Wait-to-Start, Parking Brake and Trans. Warning Lights, p. 4

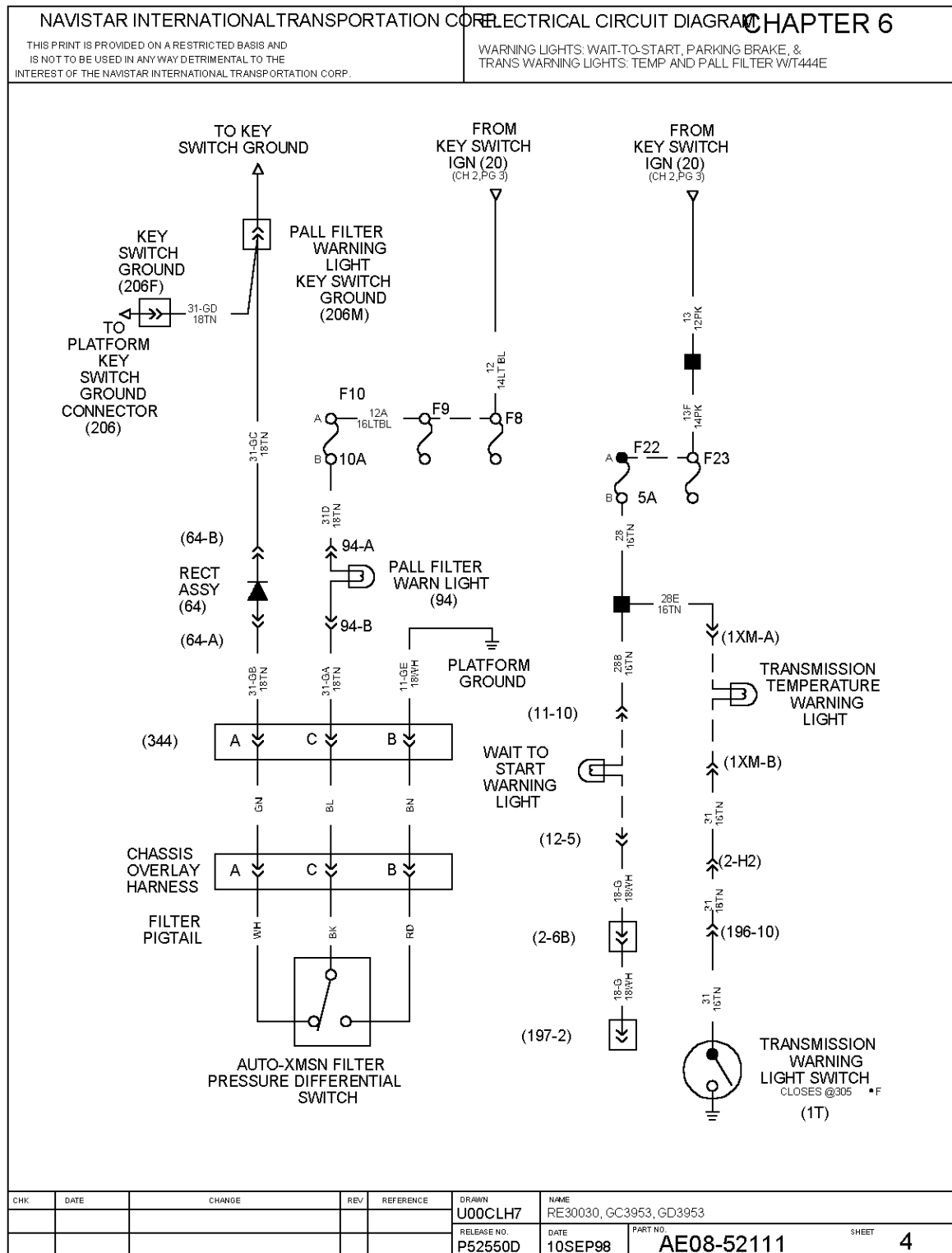


Figure 109 Wait-to-Start, Parking Brake and Trans. Warning Lights

2.7. CHASSIS ACCESSORIES (CHAPTER 7)

Air Dryer (AD-9) With Air Brakes, p. 1

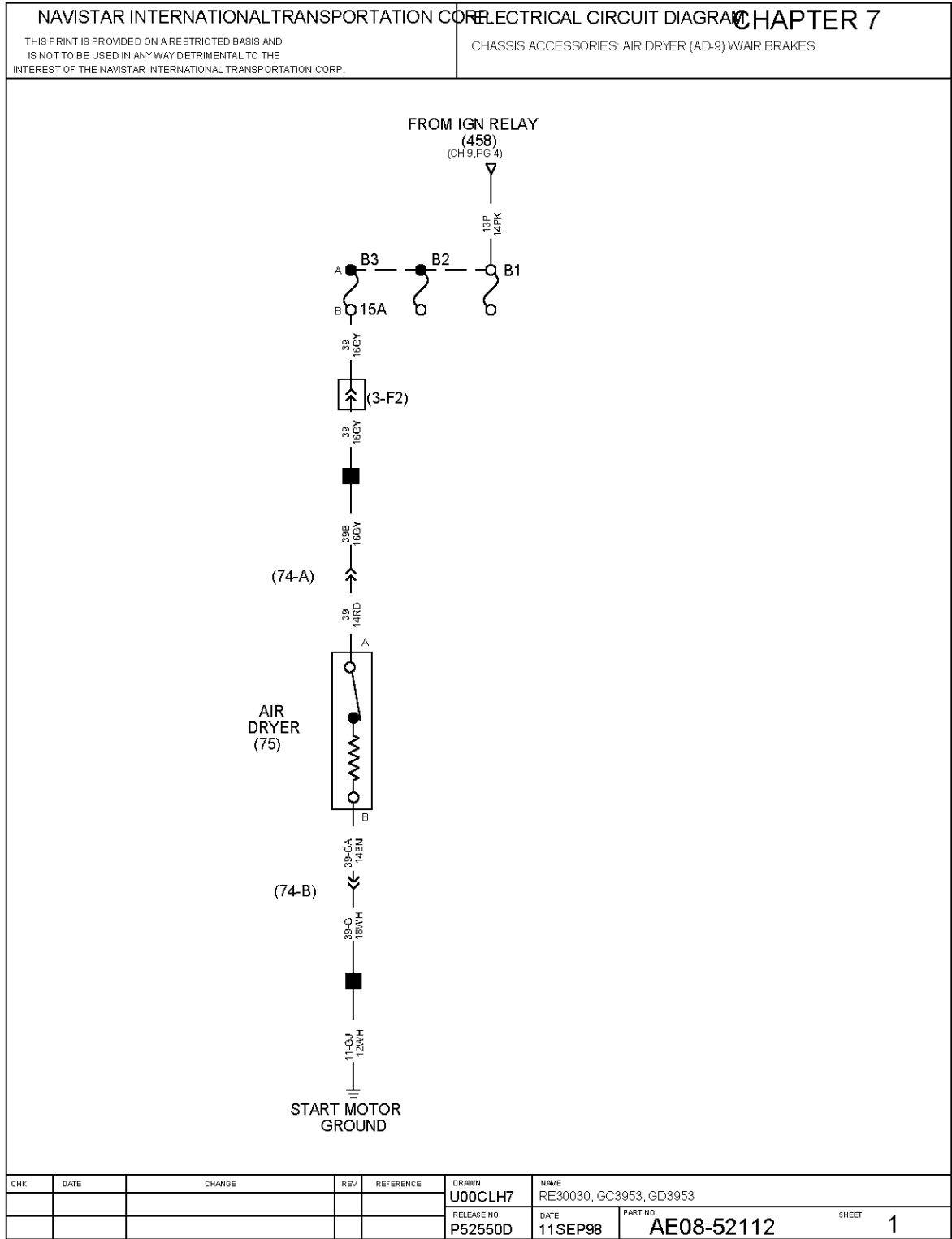


Figure 110 Air Dryer (AD-9) With Air Brakes

Automatic Transmission — Allison Mechanical, p. 2

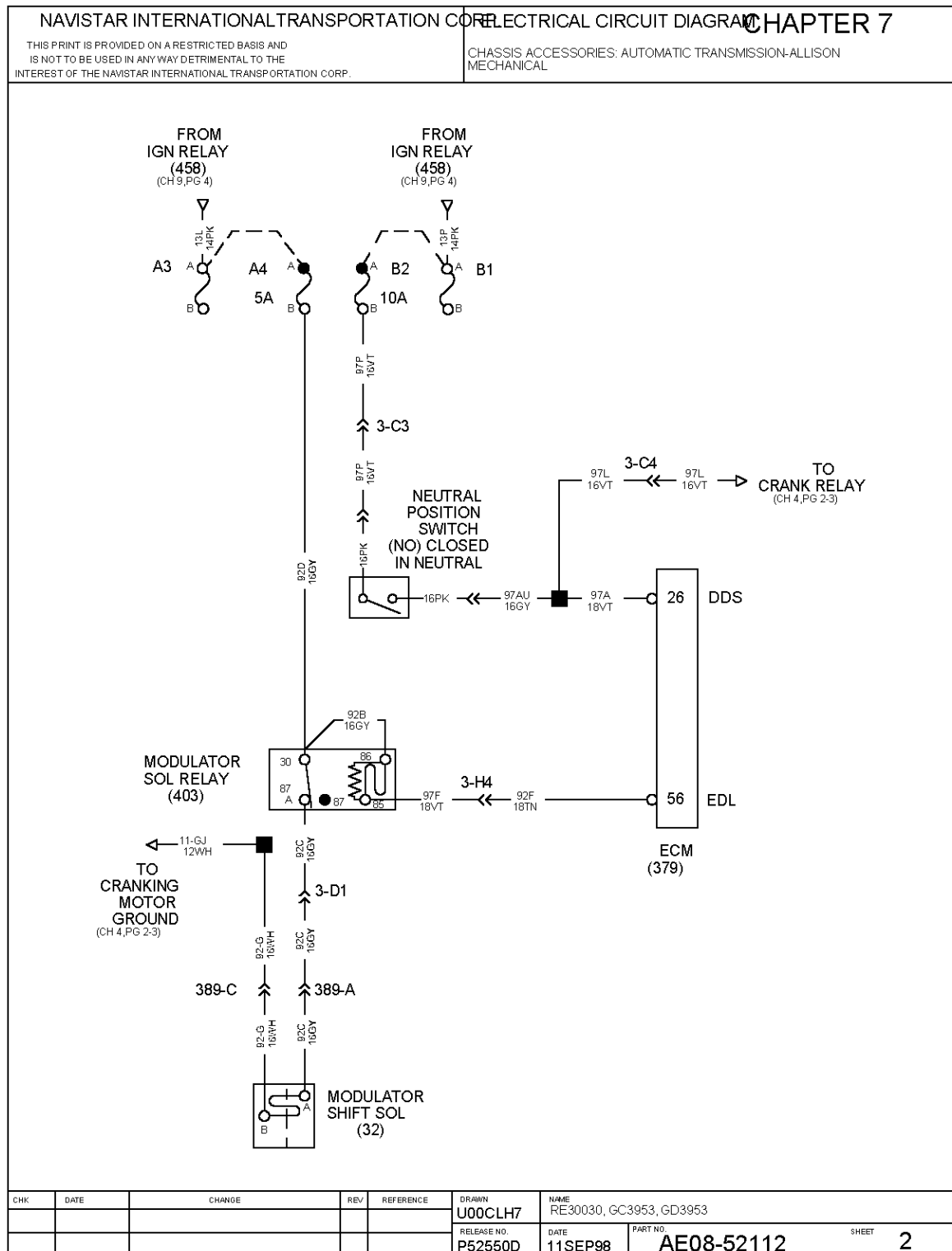


Figure 111 Automatic Transmission — Allison Mechanical

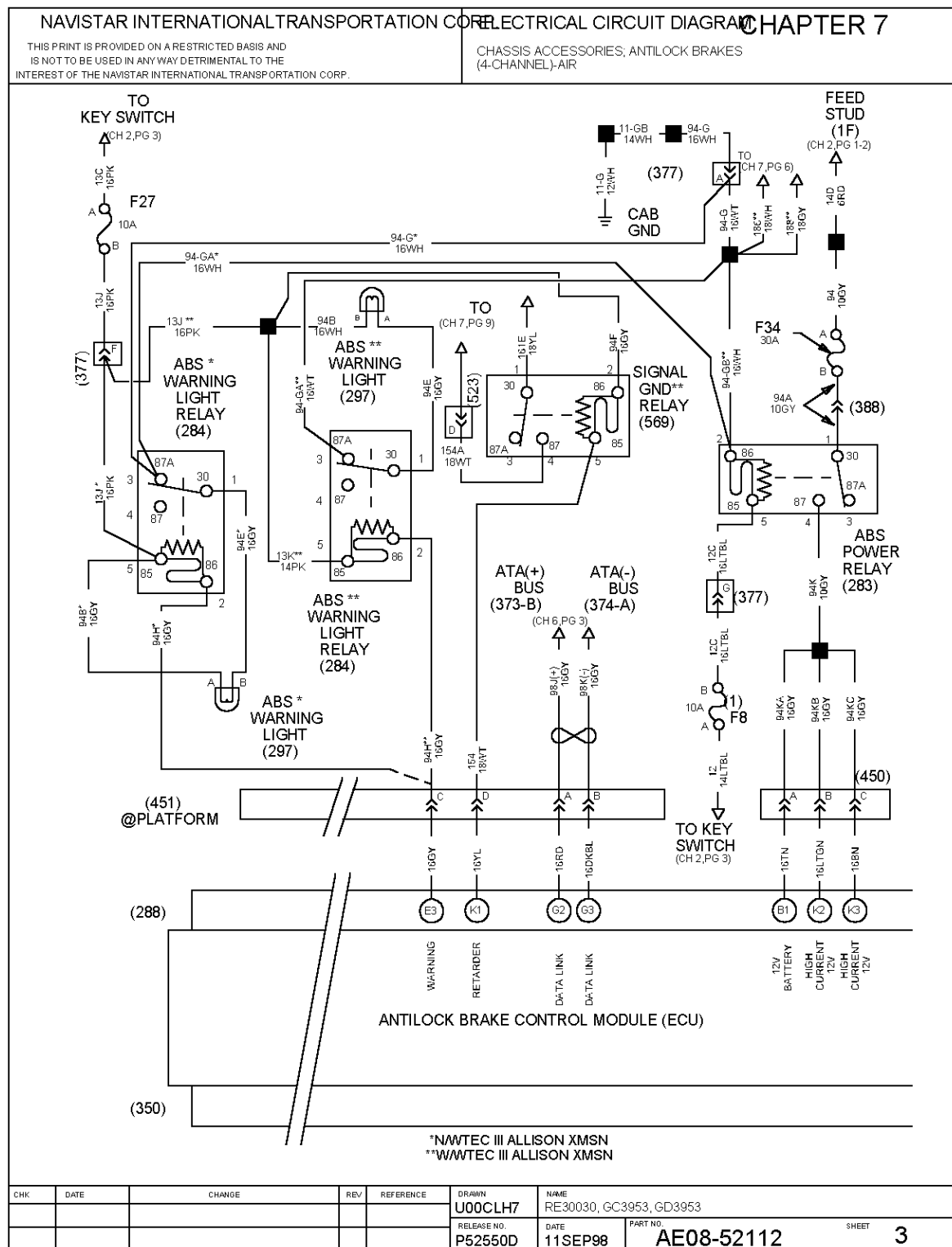


Figure 112 Antilock Brakes (4-Channel) — Air

Antilock Brakes (4-Channel) — Air (Cont.), p. 4

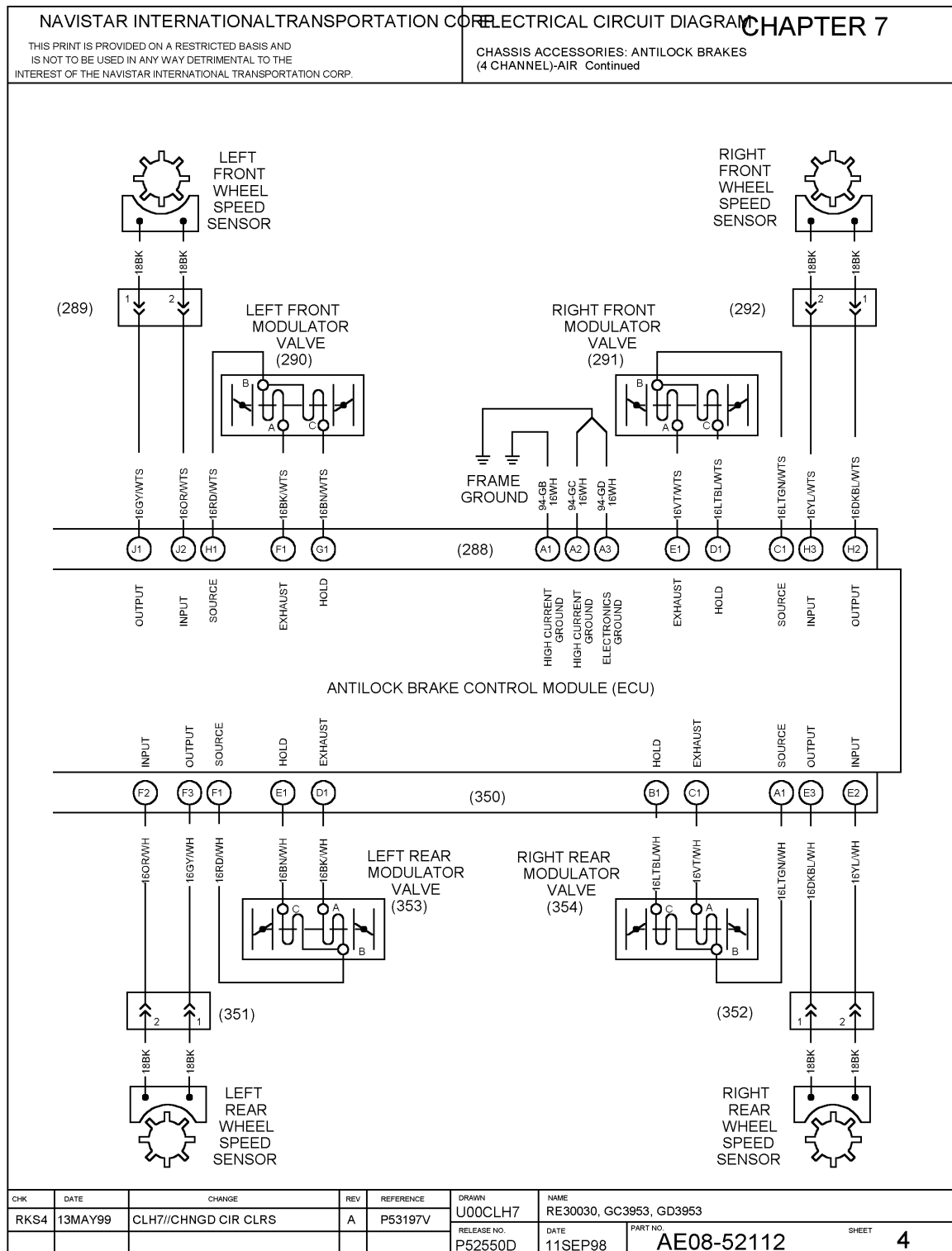
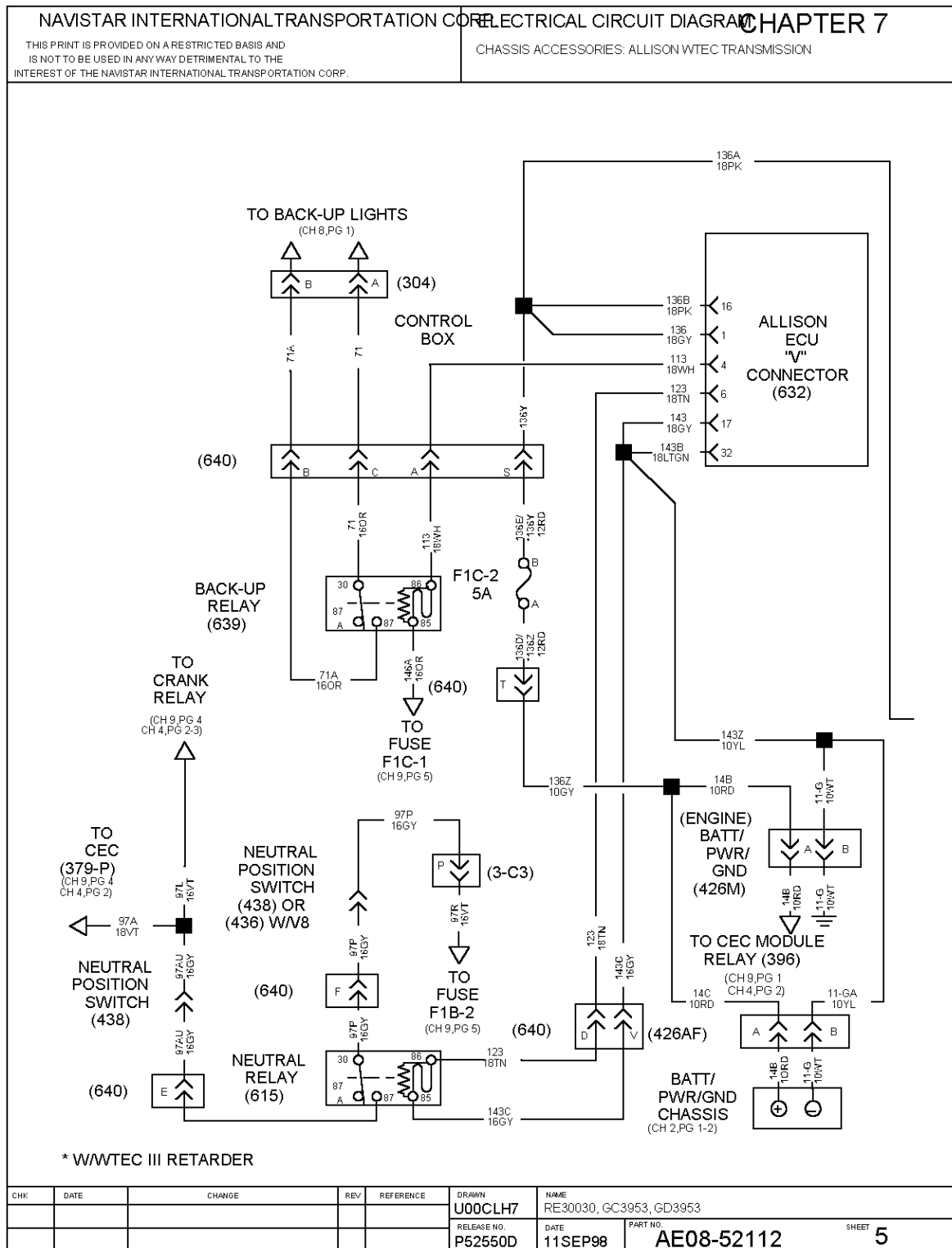


Figure 113 Antilock Brakes (4-Channel) — Air (Cont.)

Allison WTEC Transmission, p. 5

Figure 114 Allison WTEC Transmission

Allison WTEC Transmission (Cont.), p. 6

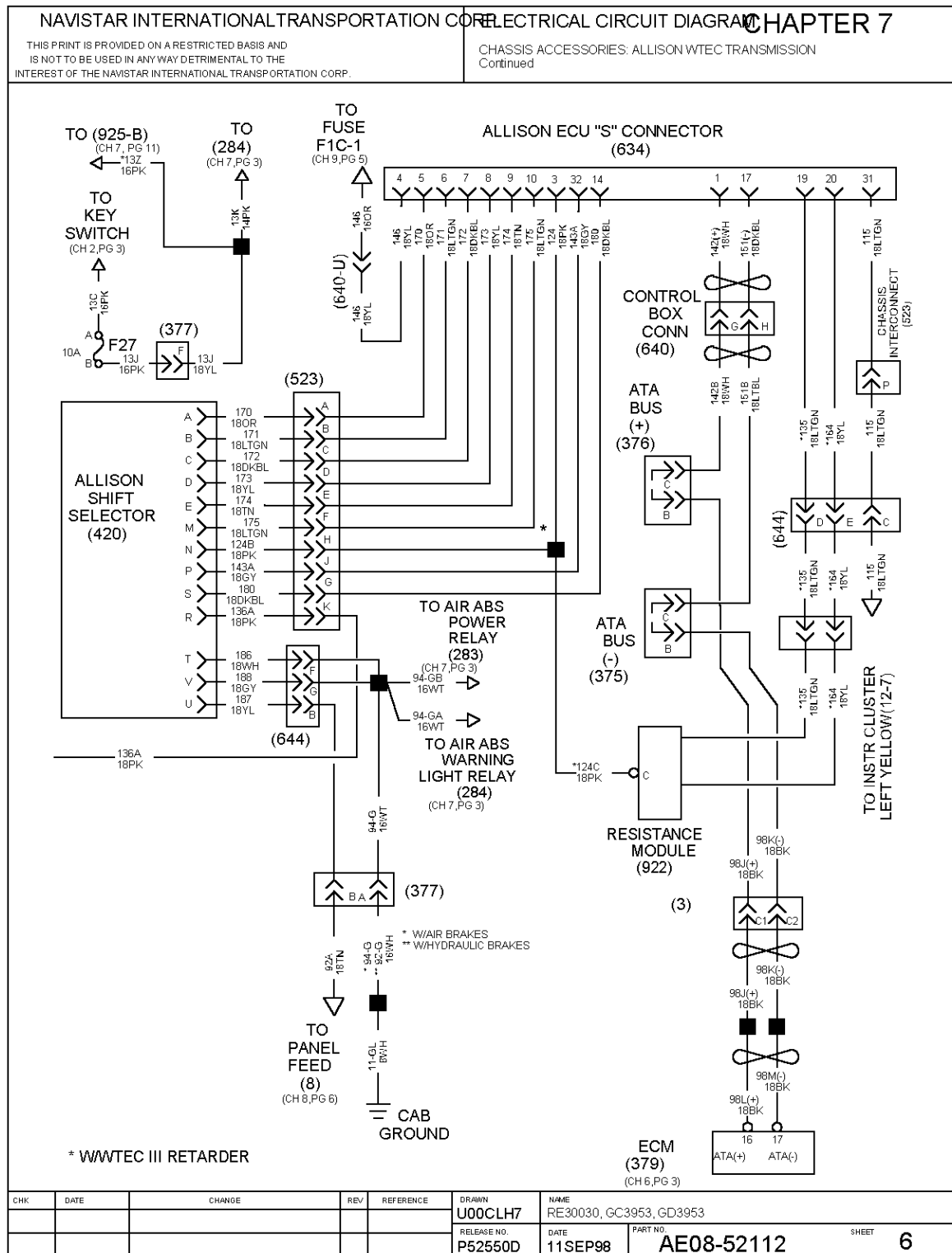


Figure 115 Allison WTEC Transmission (Cont.)

Allison WTEC Transmission (Cont.), p. 7

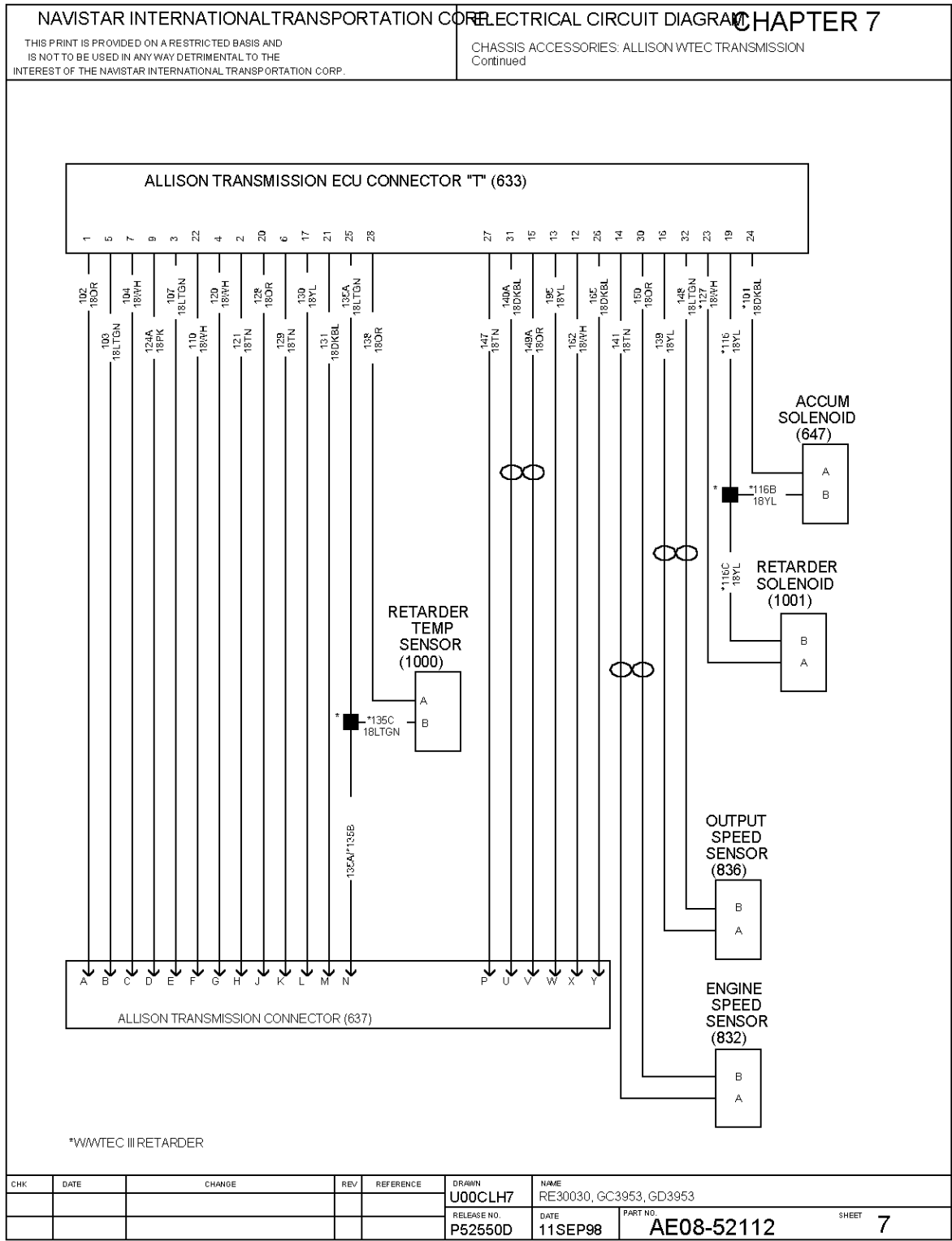


Figure 116 Allison WTEC Transmission (Cont.)

Allison WTEC Transmission (Cont.), p. 8

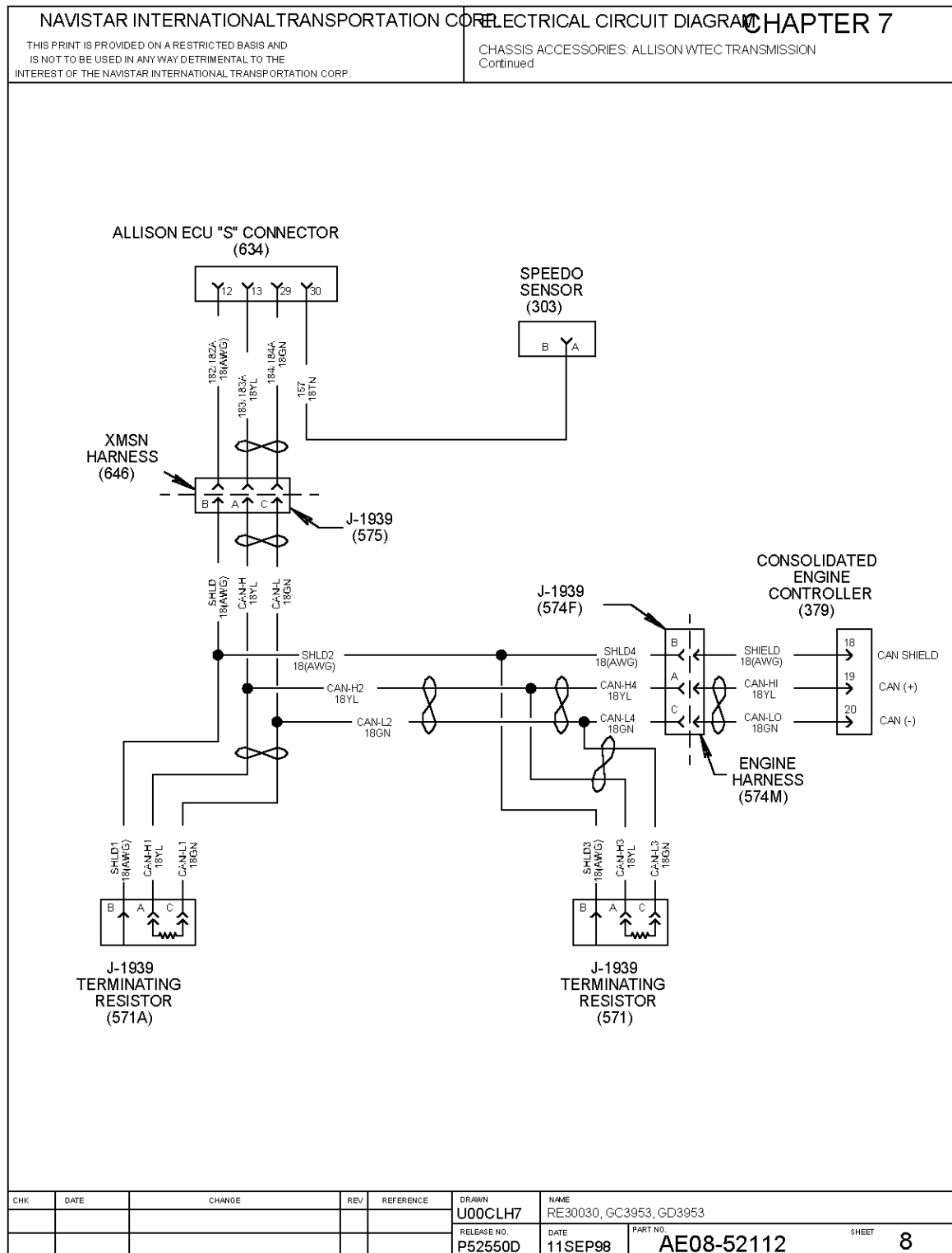


Figure 117 Allison WTEC Transmission (Cont.)

Allison WTEC Transmission (Cont.), p. 9

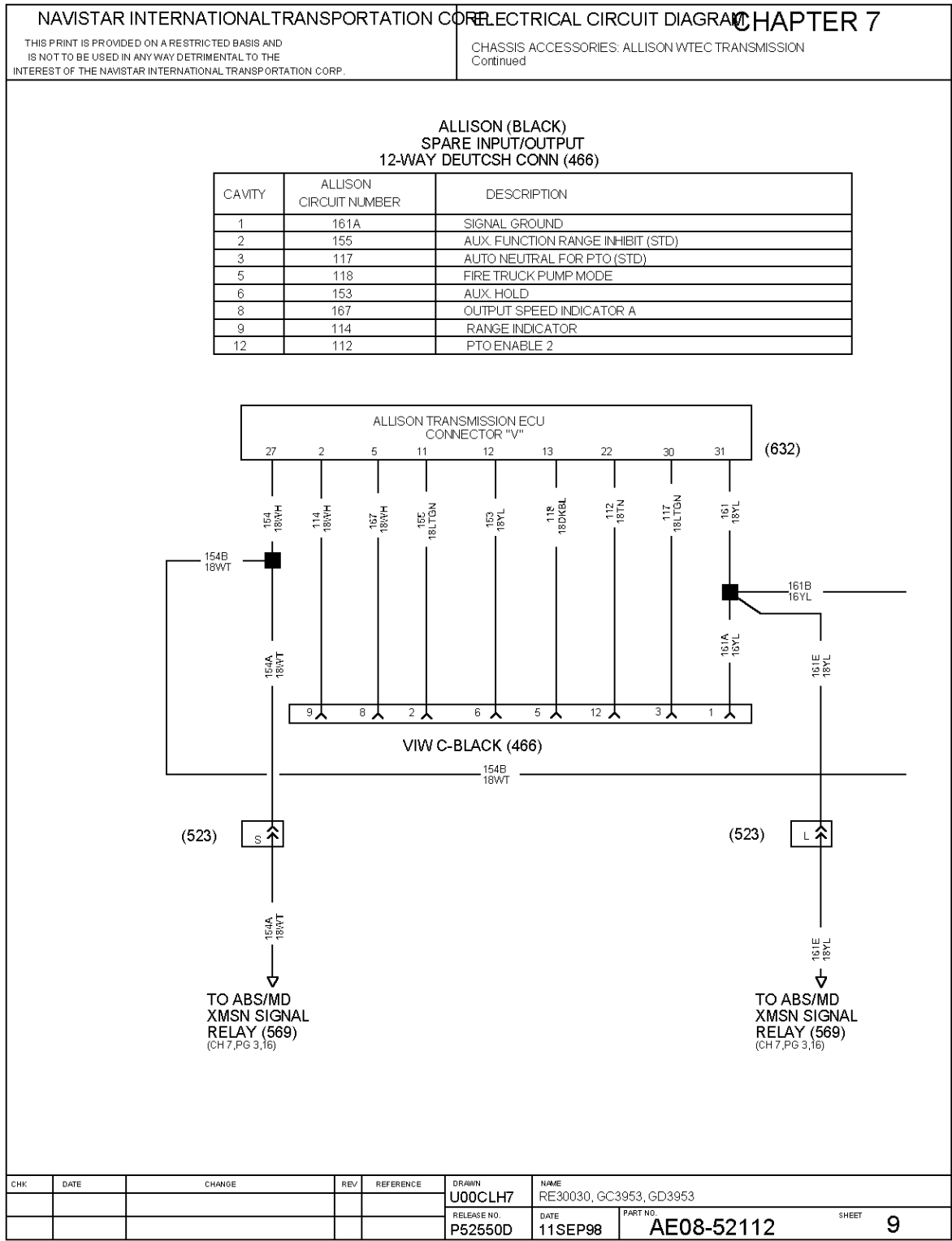


Figure 118 Allison WTEC Transmission (Cont.)

Allison WTEC Transmission (Cont.), p. 10

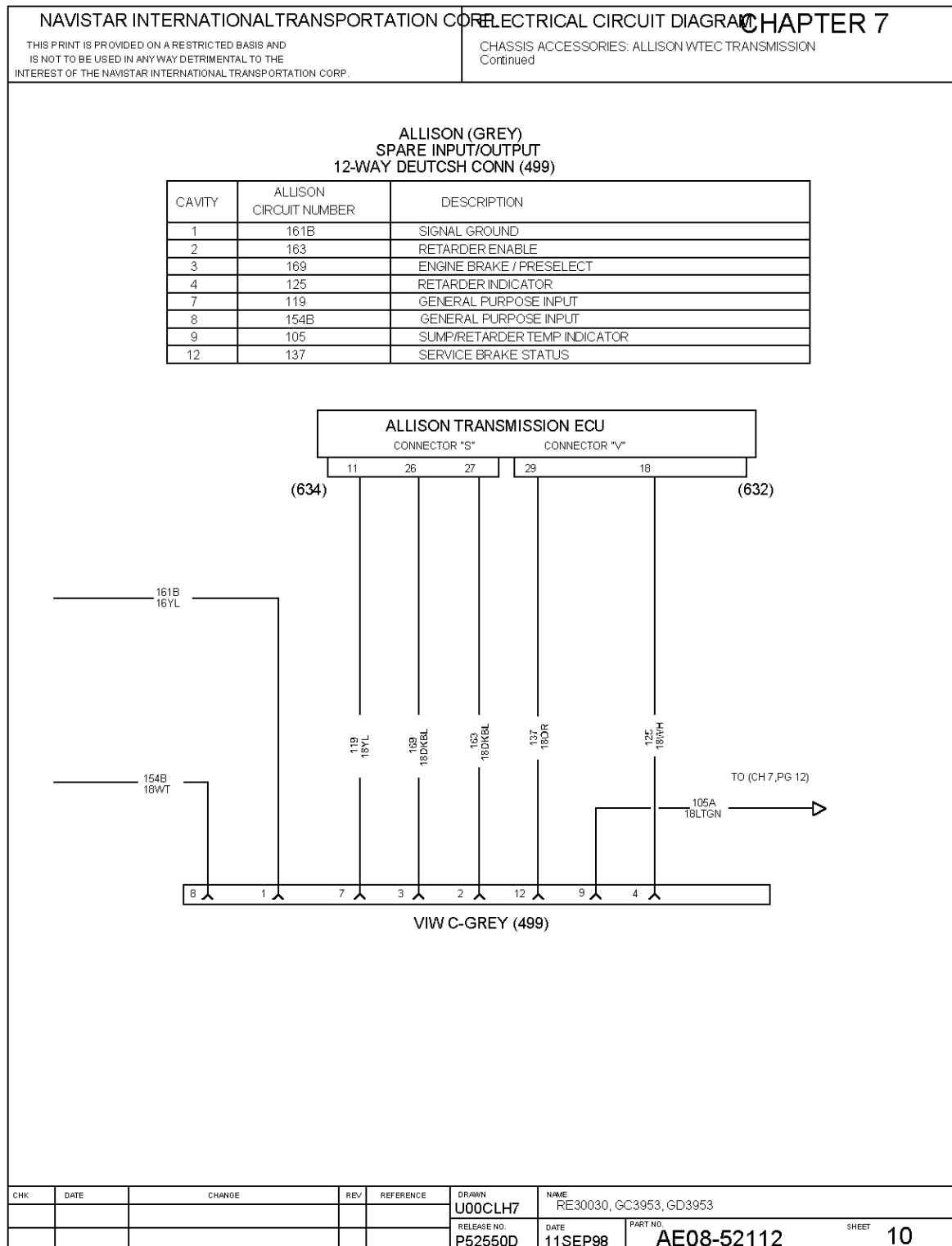


Figure 119 Allison WTEC Transmission (Cont.)

Transmission Retarder Controls With I6 — Allison WTEC Trans., p. 11

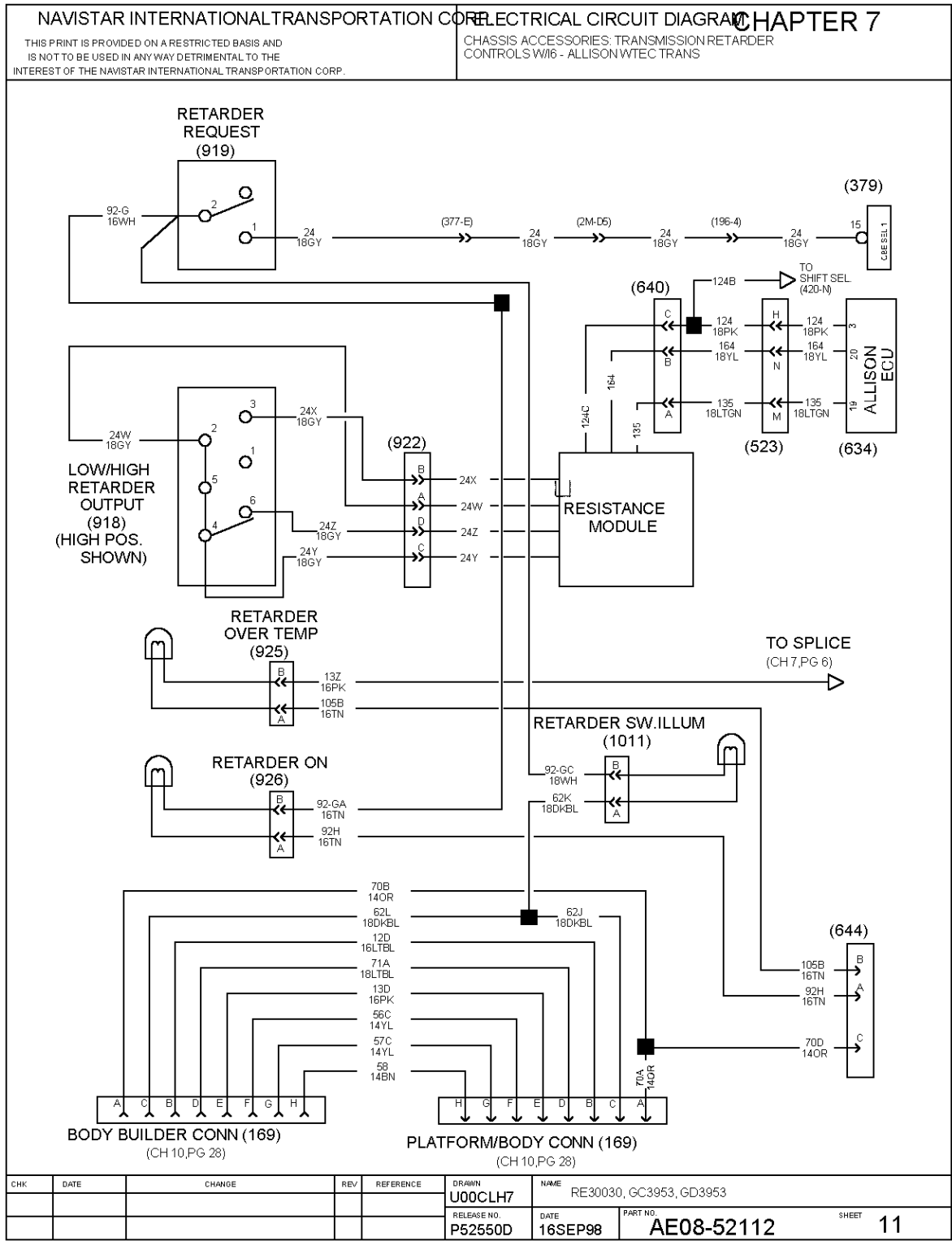


Figure 120 Transmission Retarder Controls With I6 — Allison WTEC Trans.

NAVISTAR INTERNATIONAL TRANSPORTATION CORPORATION ELECTRICAL CIRCUIT DIAGRAM CHAPTER 7

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CHASSIS ACCESSORIES: TRANSMISSION RETARDER CONTROLS W/6 - ALLISON WTEC TRANS Continued

Figure 121 Transmission Retarder Controls With I6 — Allison WTEC Trans. (Cont.)

Drain Valve, p. 13

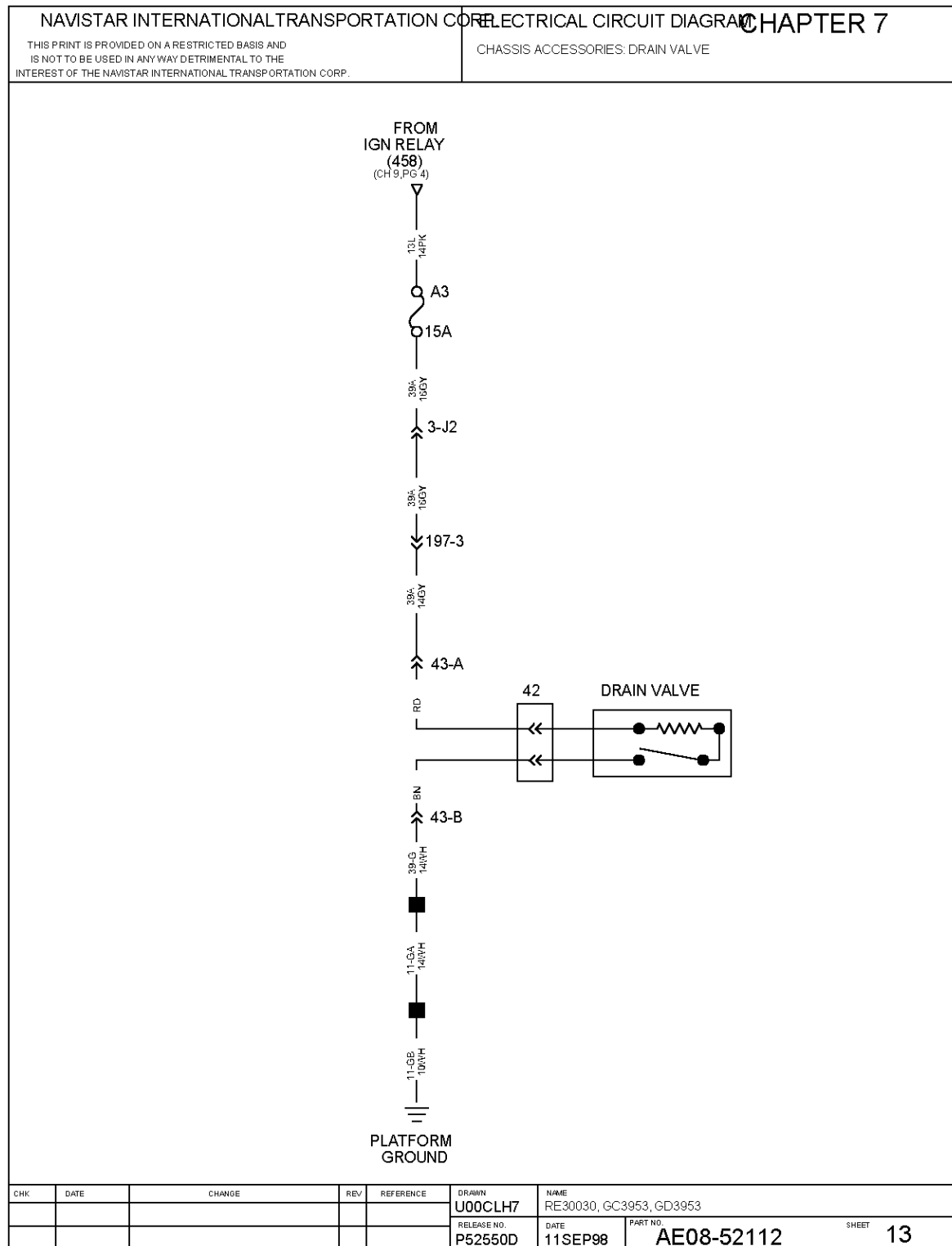


Figure 122 Drain Valve

Fuel Filter Wiring System, p. 14

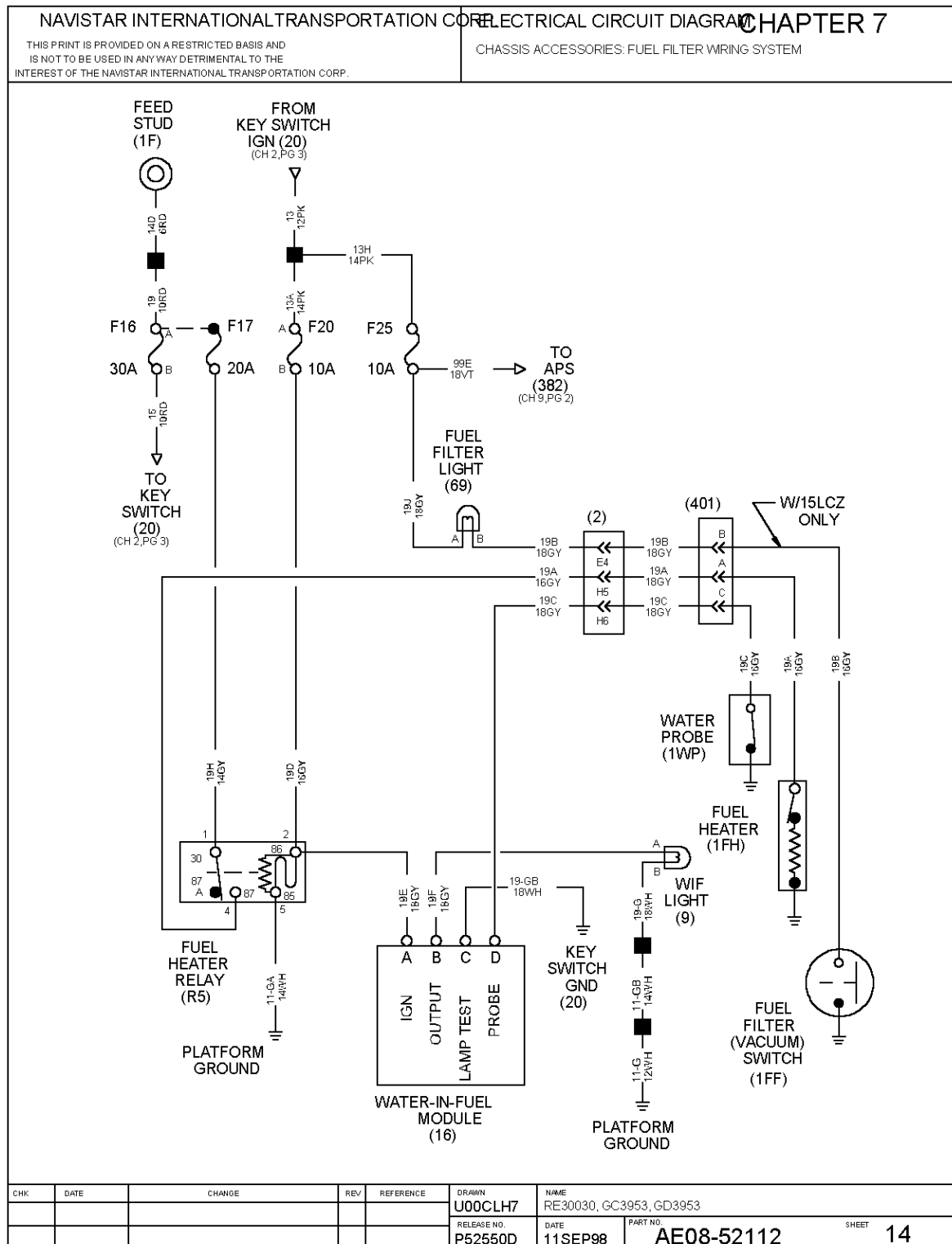
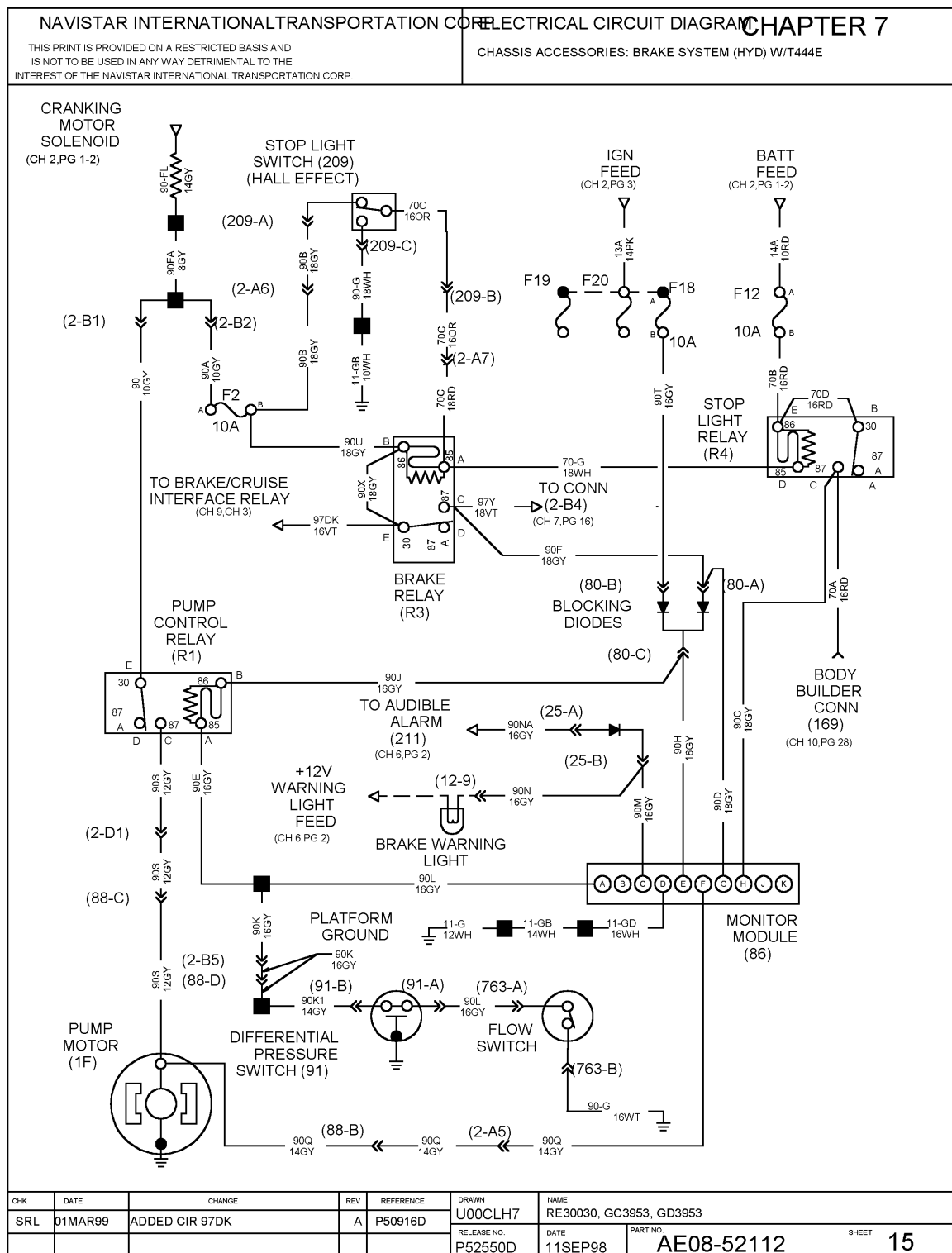


Figure 123 Fuel Filter Wiring System

Brake System (Hyd.) With T 444E, p. 15

Figure 124 Brake System (Hyd.) With T 444E

Antilock Brake System — Hydraulic, p. 16

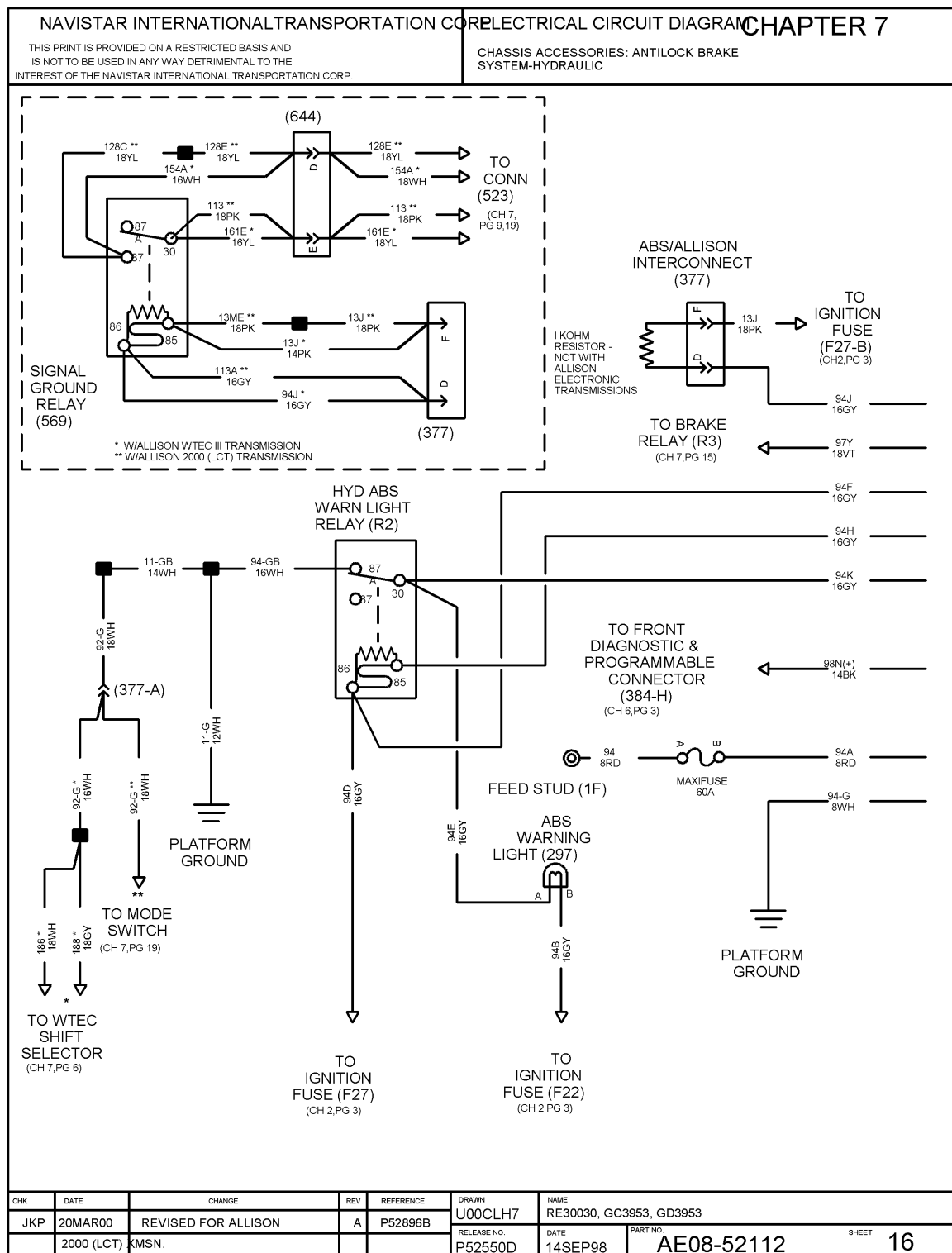


Figure 125 Antilock Brake System — Hydraulic

Antilock Brake System — Hydraulic (Cont.), p. 17

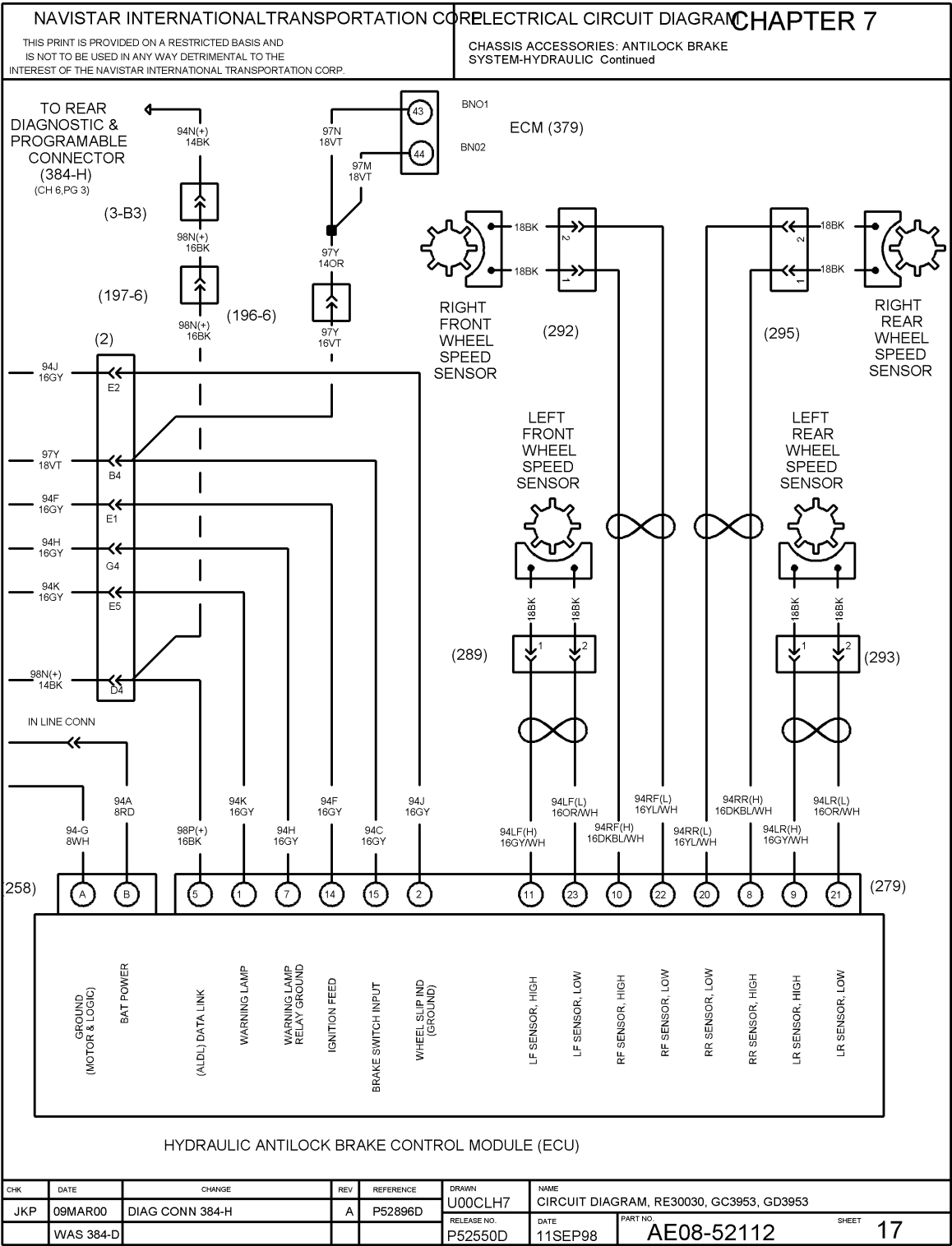


Figure 126 Antilock Brake System — Hydraulic (Cont.)

CHAPTER 7

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CHASSIS ACCESSORIES: ANTI-LOCK BRAKES (4-CHANNEL)
W/AIR BRAKES W/ALLISON 2000 XMSN

TO KEY SWITCH (CH 2, PG 3)

TO RANGE INHIBITED (CH 7, PG 19)

TO MODE SWITCH (CH 7, PG 19)

** TO ALLISON TCM (3031) (CH 7, PG 19)

(377)

F27 10A

13L 16PK

13J 16PK

13MA** 18PK

13N** 18PK

94-G* 16WH

94-GA* 16WH

94-GC** 18WH

94-GD** 18WH

94-GB** 16WH

94-GE** 16GY

94-H* 16GY

94-I** 16GY

113A** 16GY

16GY

16YL

16RD

16DKBL

16TN

16LTGN

16BN

94-G 18WH

11-G 12WH

CAB GND

(377)

F34 30A

94A 10GY

(388)

** ABS WARNING LIGHT RELAY (284)

* ABS WARNING LIGHT RELAY (284)

* ABS WARNING LIGHT (297)

** ABS WARNING LIGHT (297)

DATA LINK FEED BLOCKS (373) (374) (CH 6, PG 3)

(451)

@ PLATFORM

WARNING

RETARDER

DATA LINK

DATA LINK

12V BATTERY

HIGH CURRENT 12V

HIGH CURRENT 12V

ANTILOCK BRAKE CONTROL MODULE (ECU)

*N/ ALLISON 2000 (LCT) XMSN

**W/ALLISON 2000 (LCT) XMSN

SHEET

18

Figure 127 Antilock Brakes (4-Channel) W/Air Brakes W/Allison 2000 Xmsn

Figure 128 Allison 2000 (LCT) Transmission

Allison 2000 (LCT) Transmission, p. 20

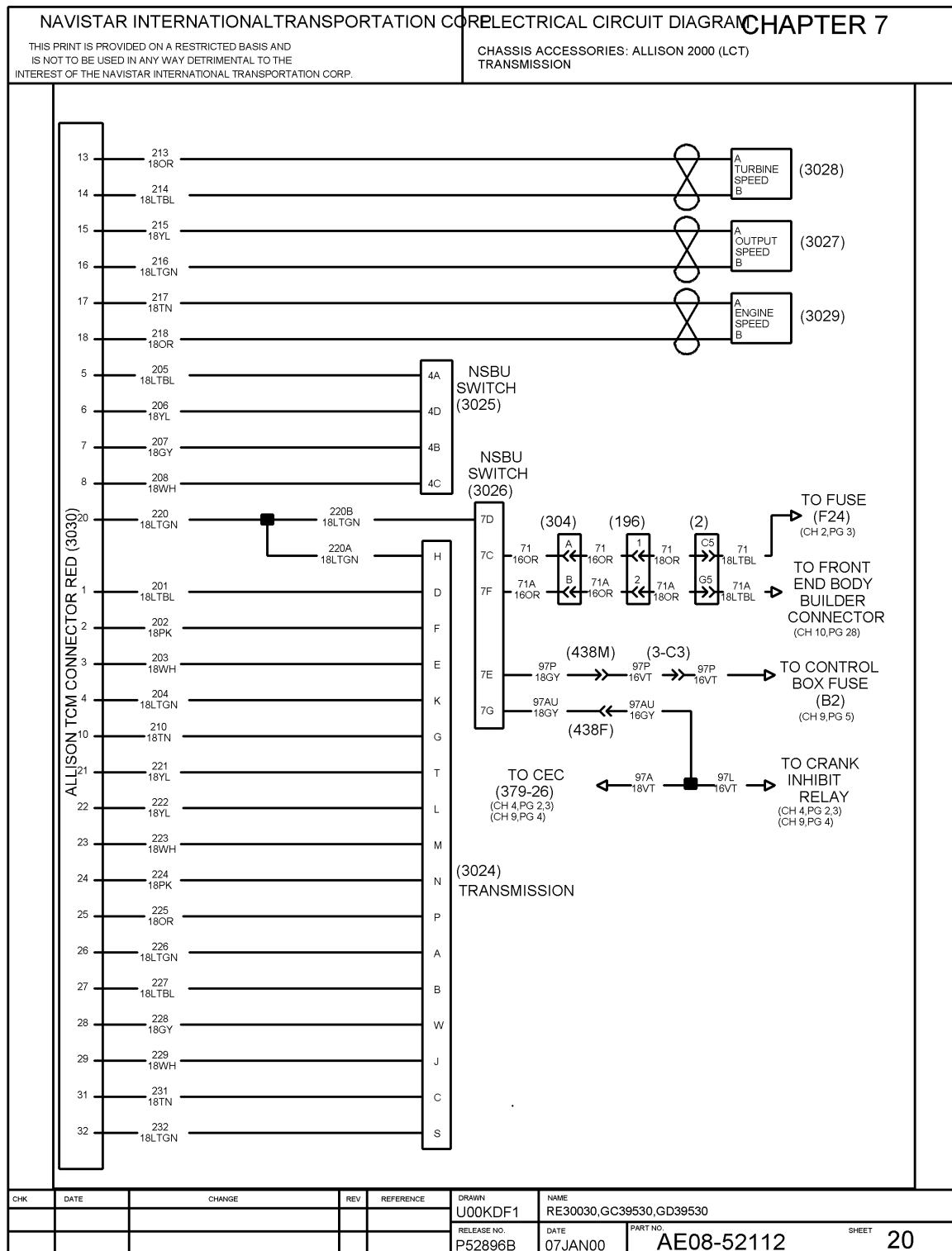


Figure 129 Allison 2000 (LCT) Transmission

Allison 2000 (LCT) Transmission J-1939, p. 21

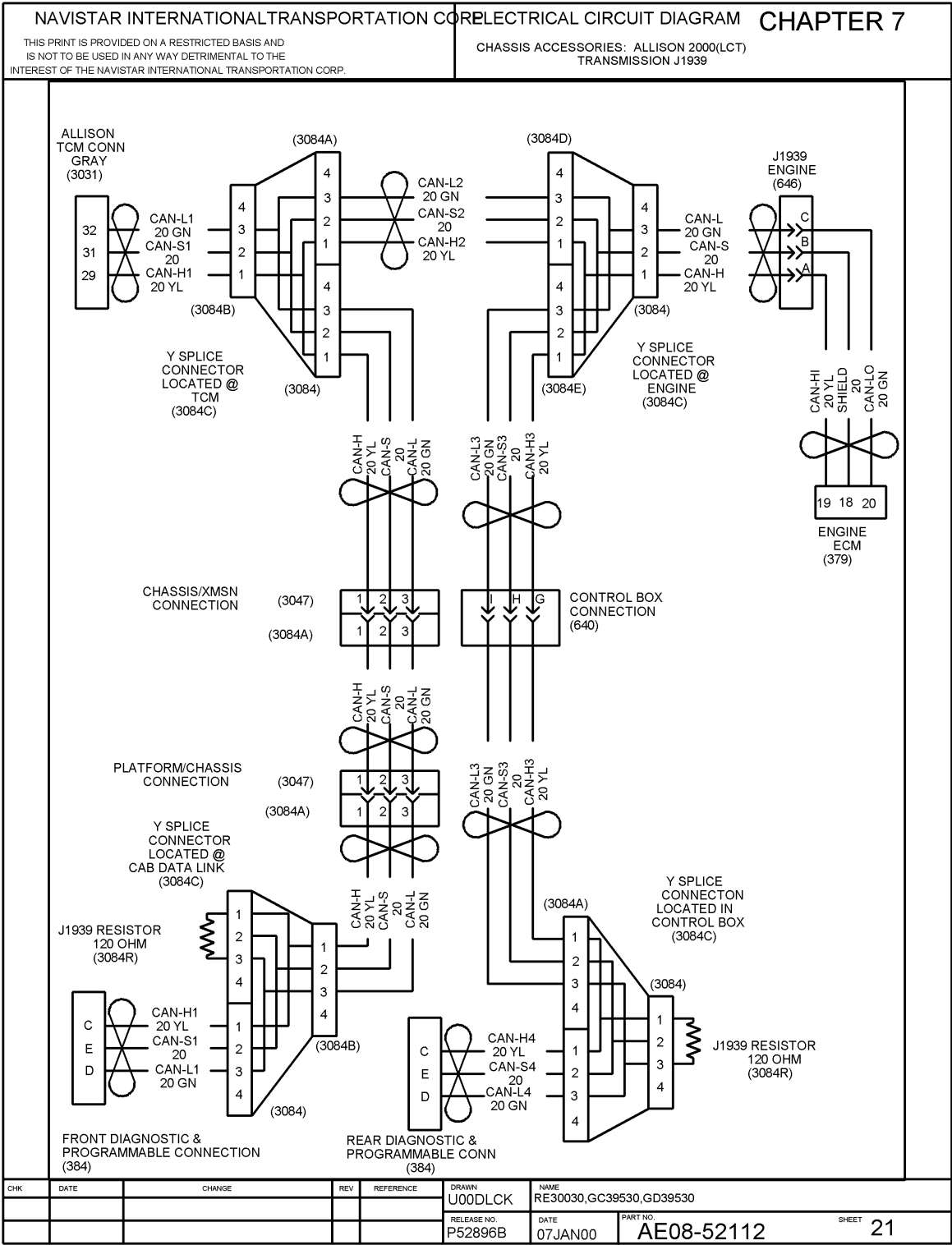


Figure 130 Allison 2000 (LCT) Transmission J-1939

Allison 2000 (LCT) Transmission (Electronic) Spare Input/Outputs, p. 22

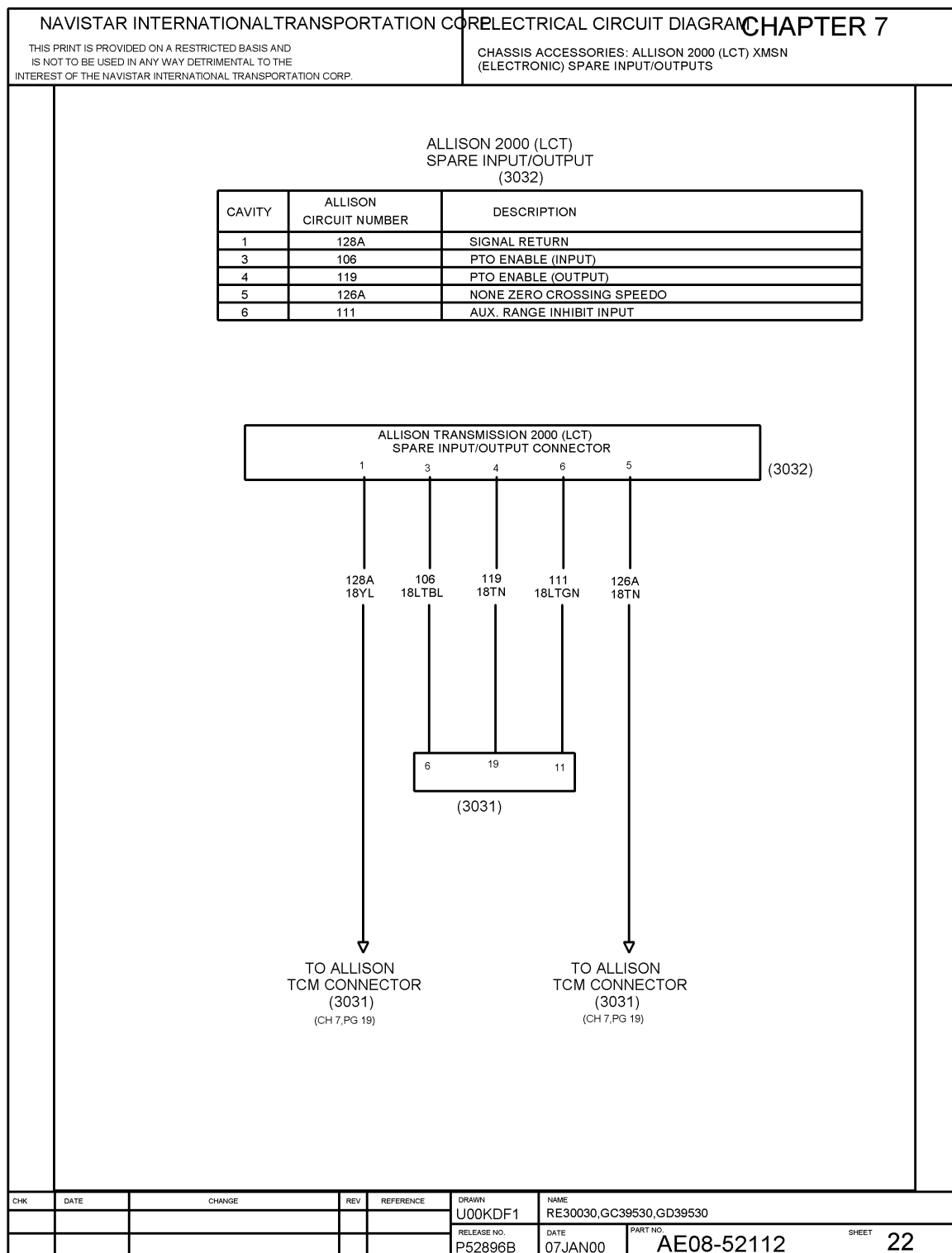


Figure 131 Allison 2000 (LCT) Transmission (Electronic) Spare Input/Outputs

2.8. LIGHT SYSTEMS (CHAPTER 8)

Back-Up Light System, p. 1

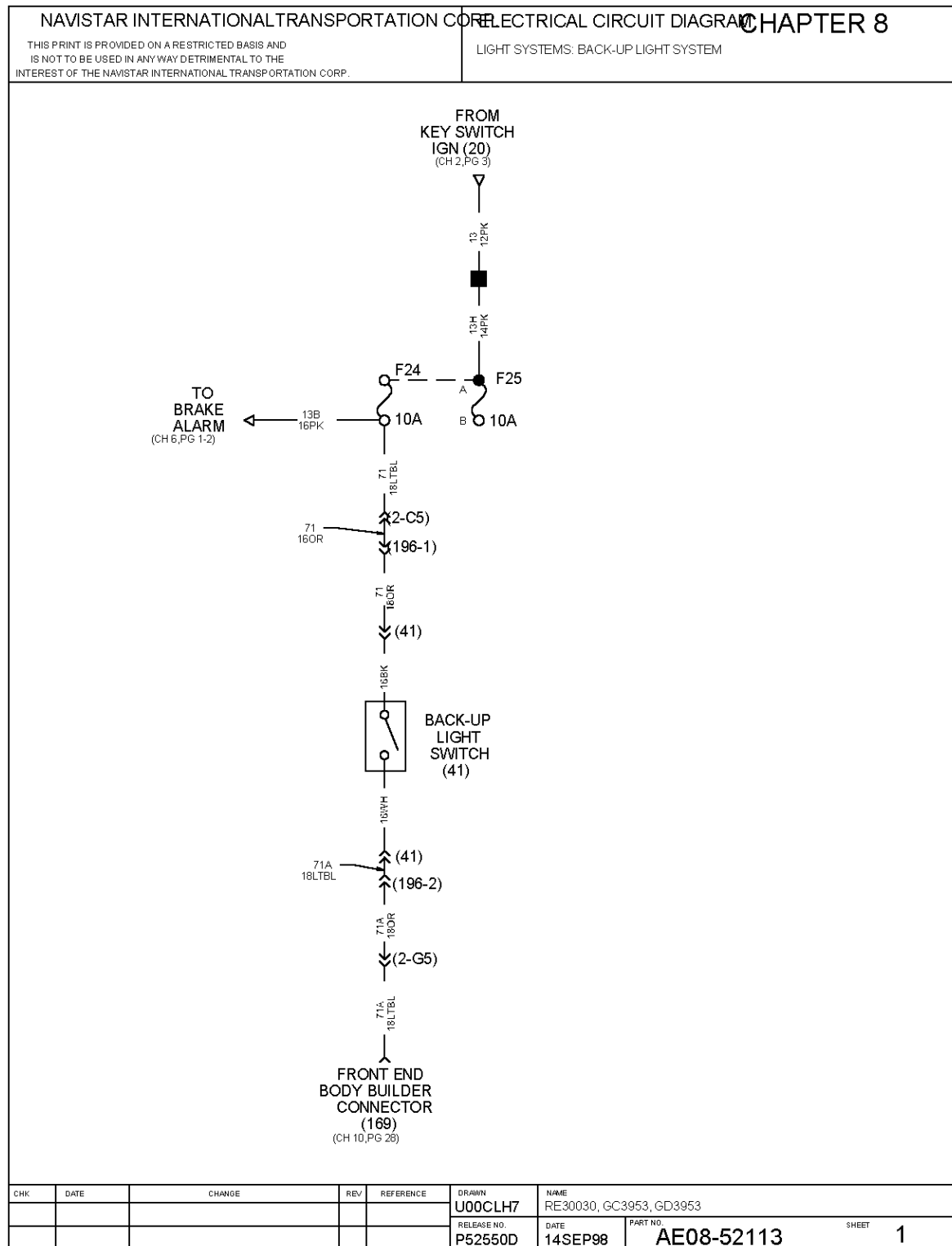


Figure 132 Back-Up Light System

Headlight System With Douglas Turn Signal Switch (Tilt Column), p. 2

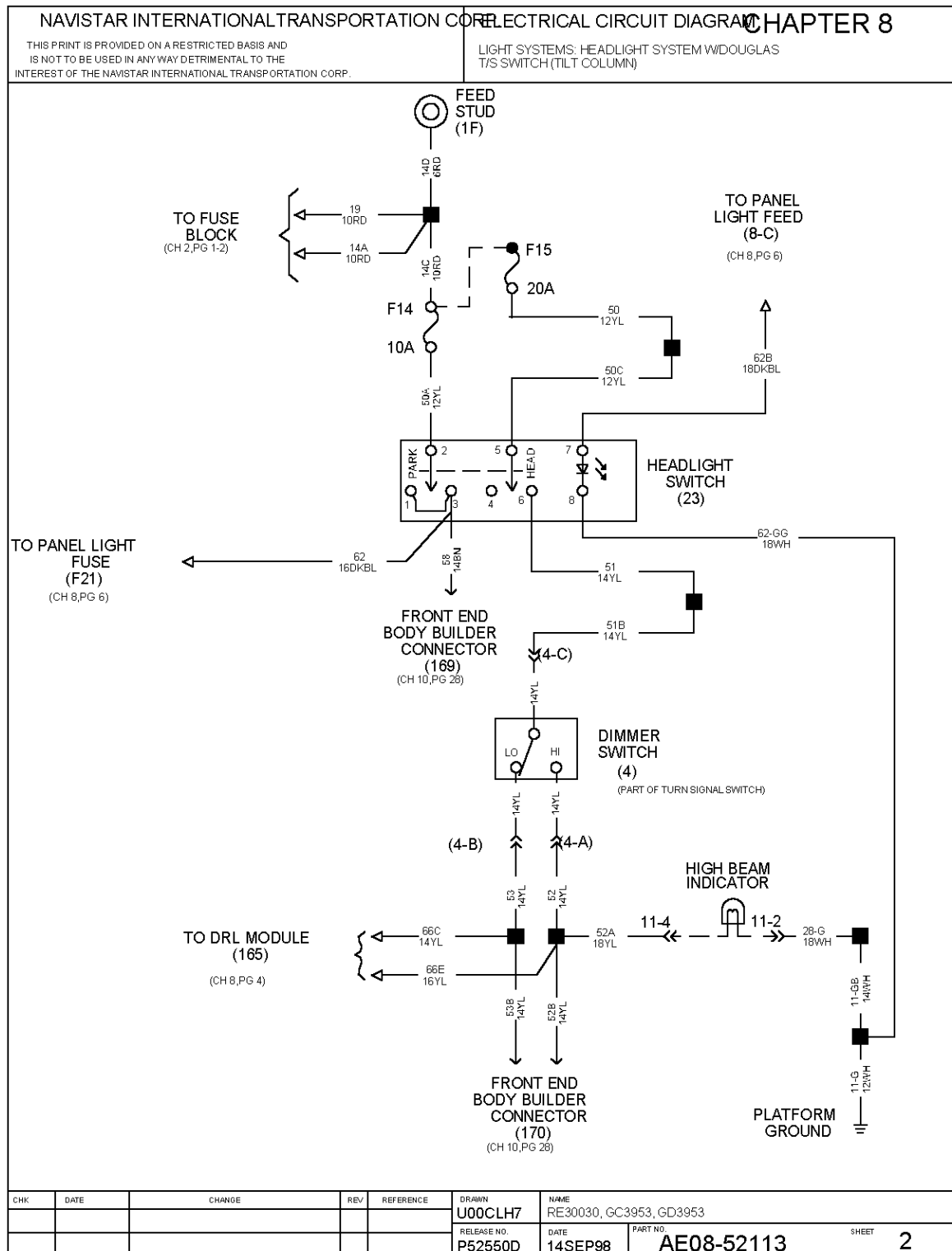
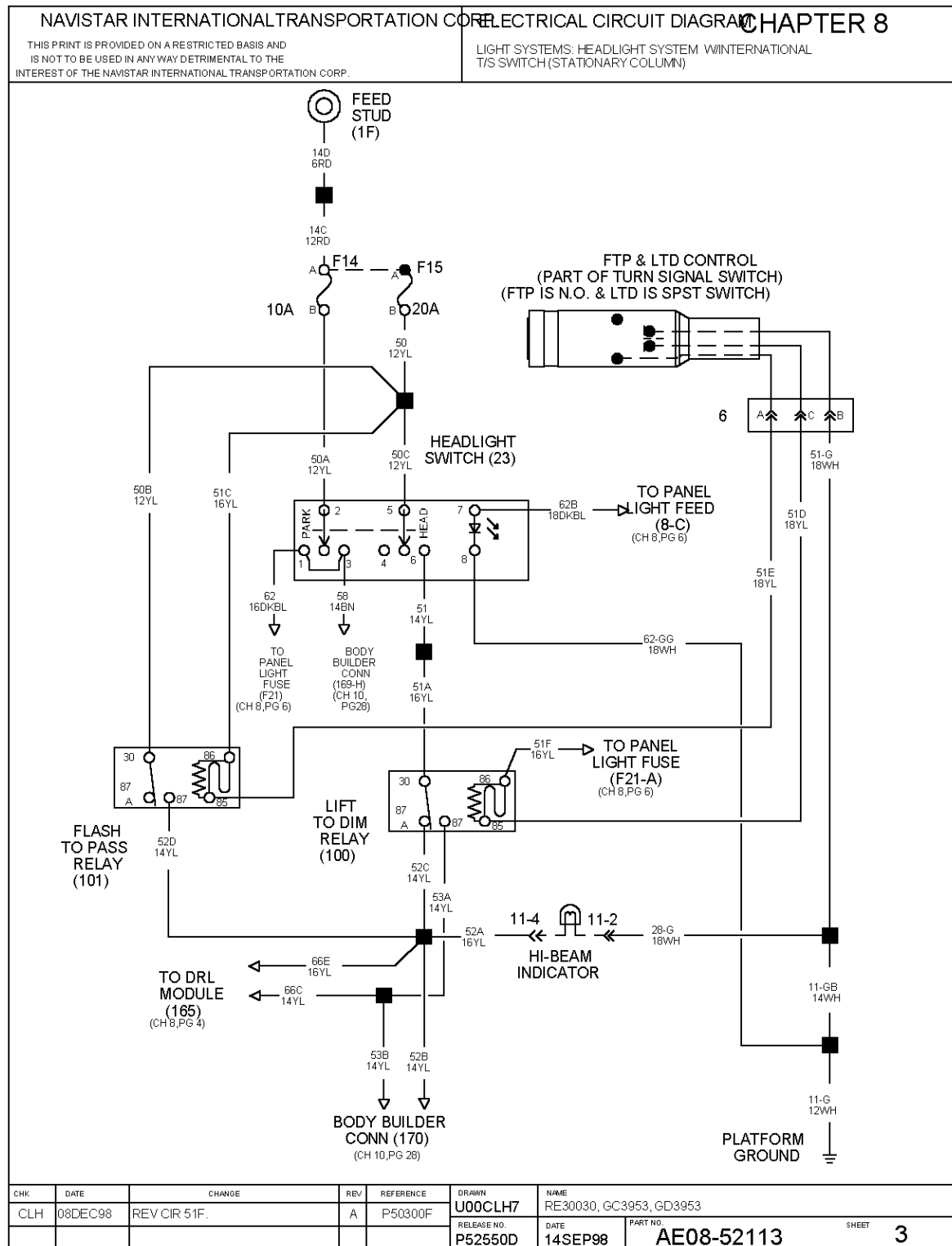


Figure 133 Headlight System With Douglas Turn Signal Switch (Tilt Column)

Headlight System With International Turn Signal Switch (Stationary Column), p. 3

Figure 134 Headlight System With International Turn Signal Switch (Stationary Column)

Daytime Running Lights With Douglas or International Turn Signal Switch, p. 4

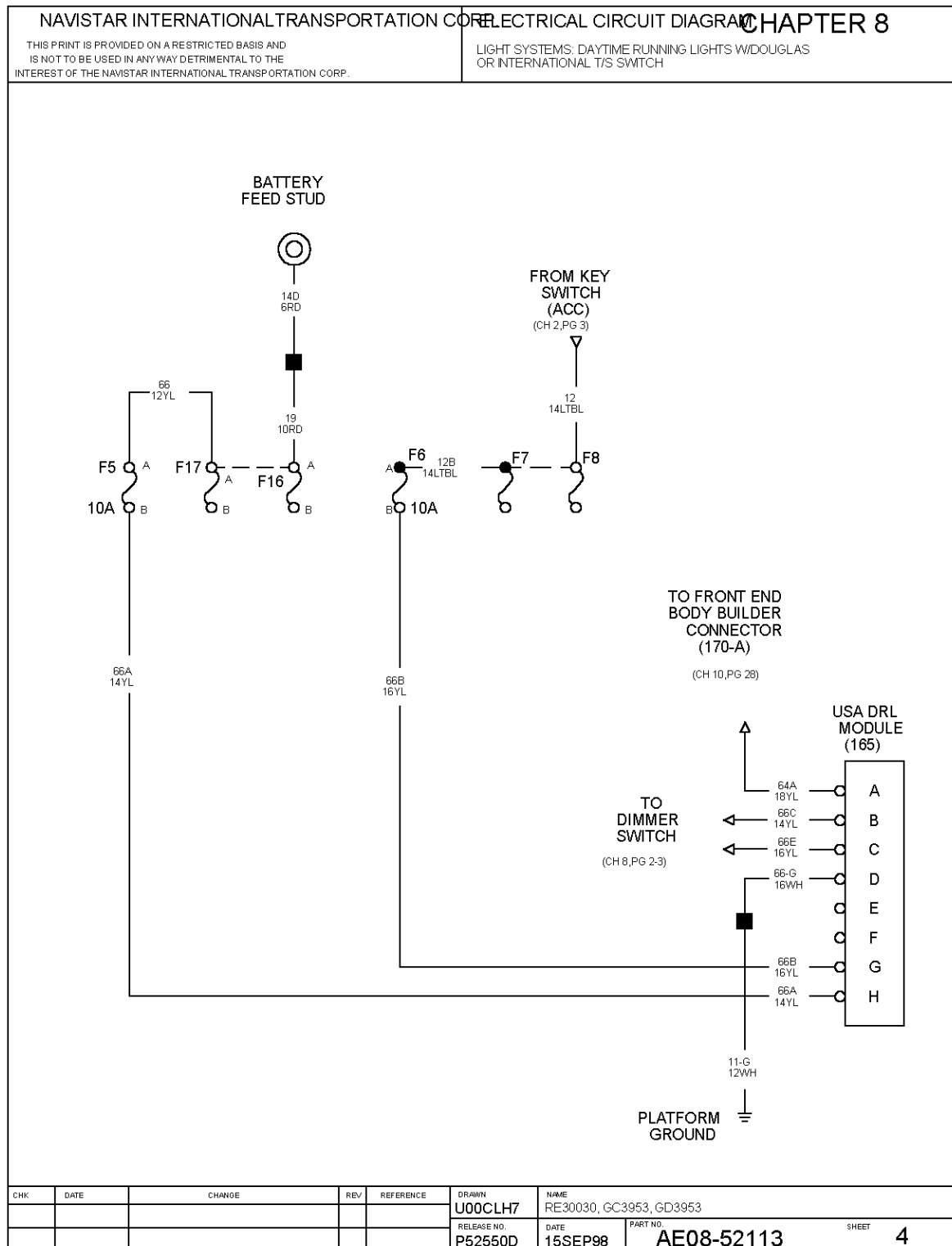
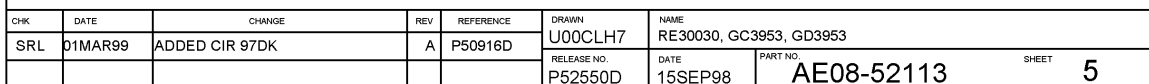


Figure 135 Daytime Running Lights With Douglas or International Turn Signal Switch

ELECTRICAL CIRCUIT DIAGRAM CHAPTER 8

LIGHT SYSTEMS: STOP LIGHT SWITCH W/AIR
BRAKES



s08208Y

Panel Lights, p. 6

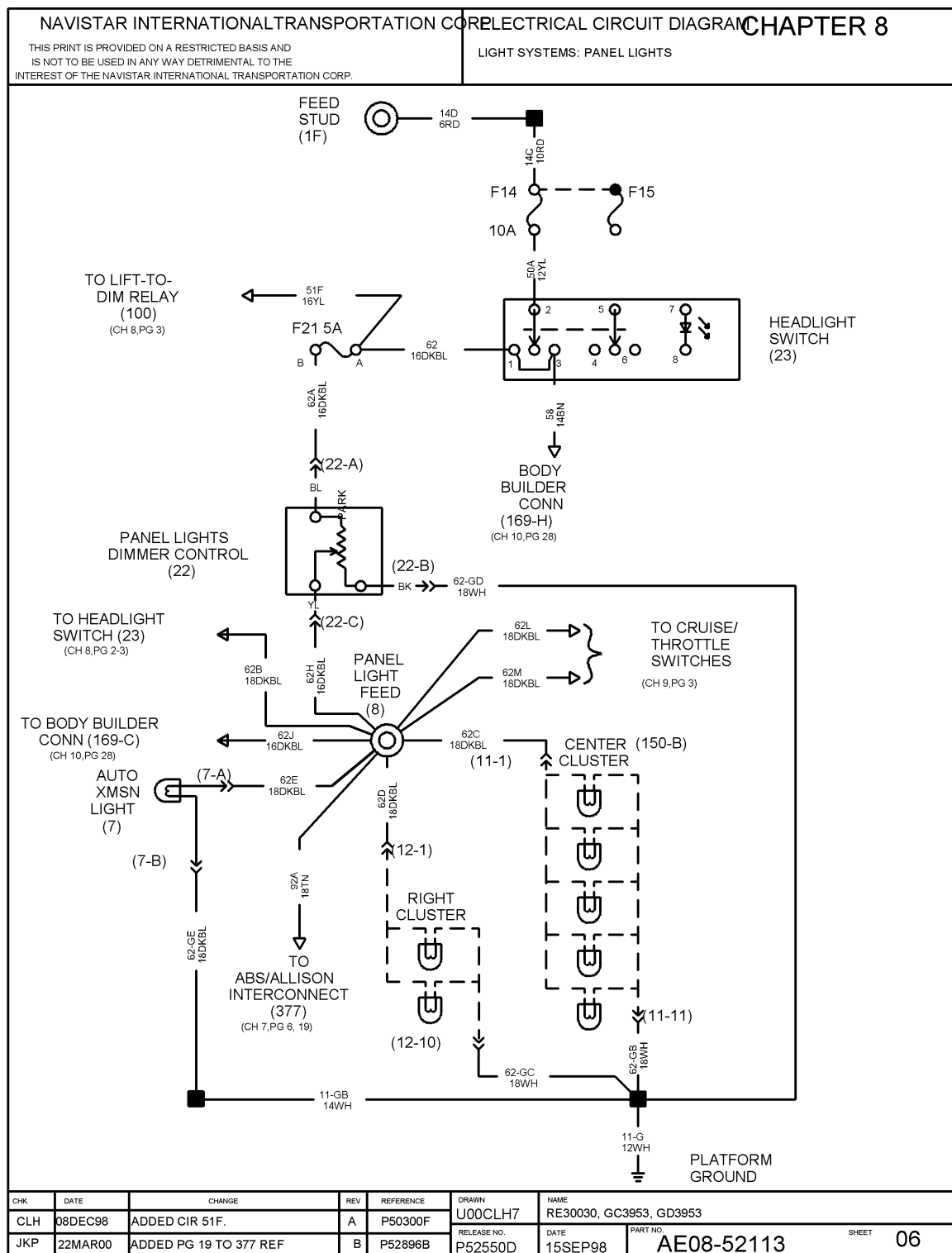


Figure 137 Panel Lights

2.9. ELECTRONIC ENGINES (CHAPTER 9)

ECM Power and Ground System, p. 1

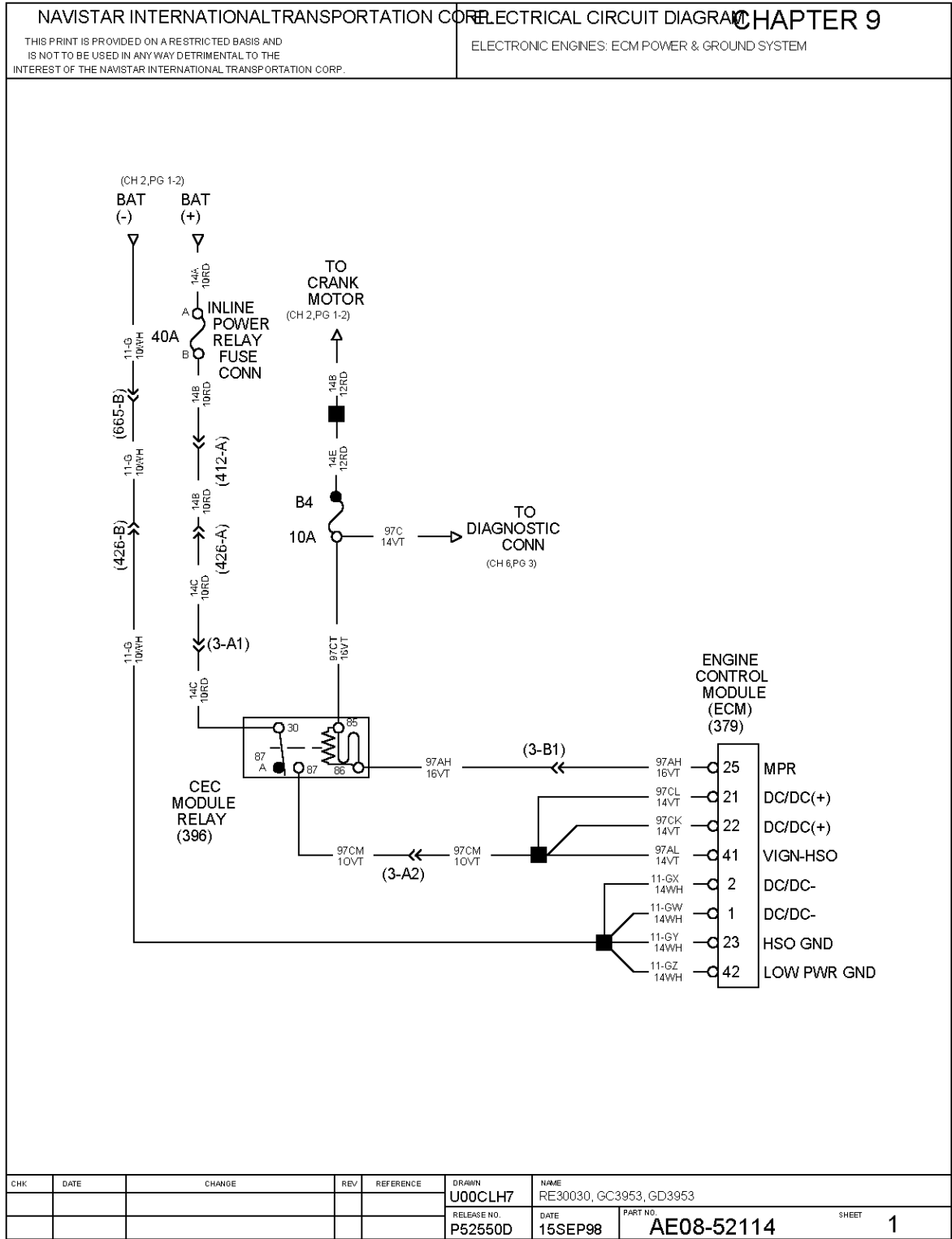


Figure 138 ECM Power and Ground System

Accelerator, BAP and ATS Systems, p. 2

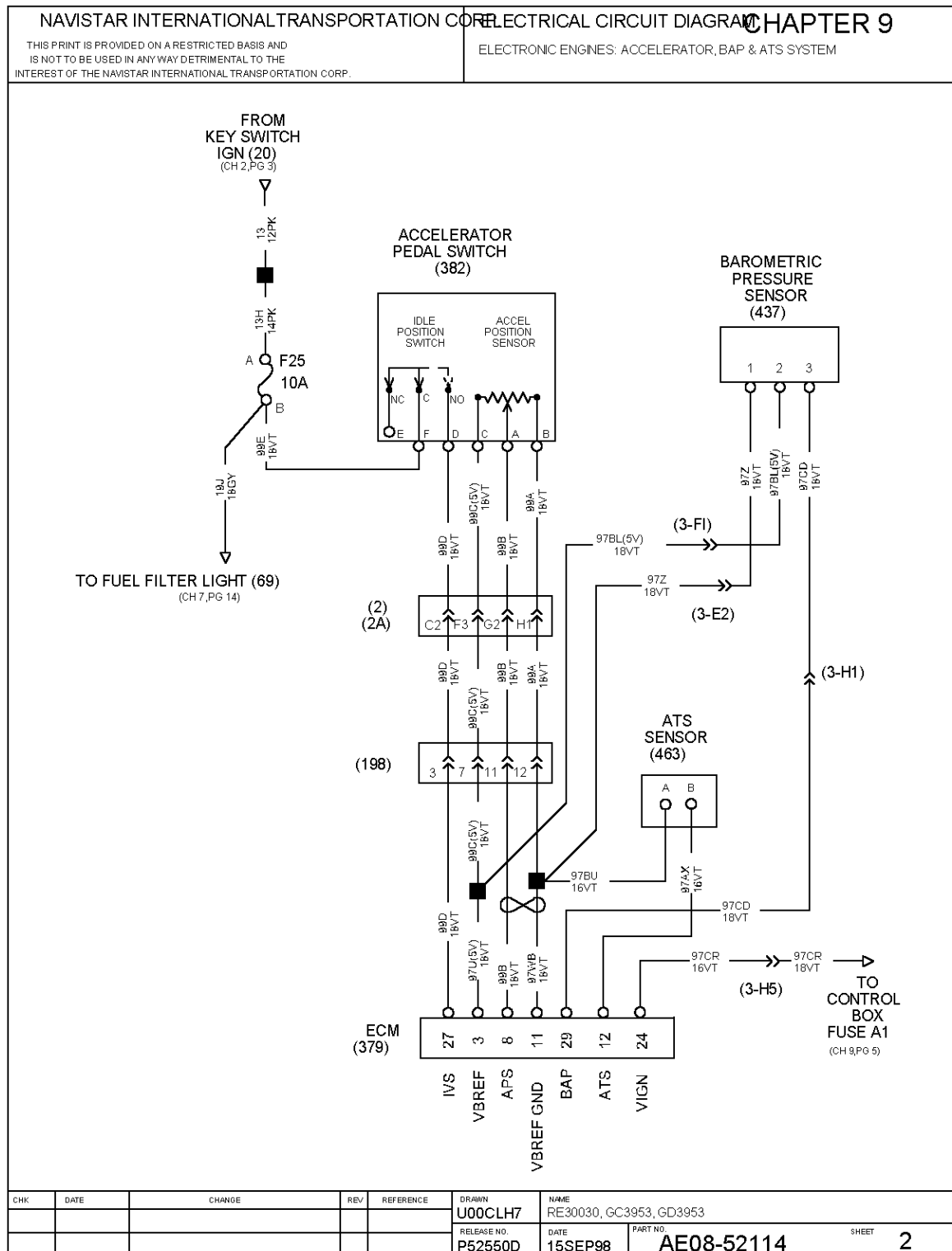


Figure 139 Accelerator, BAP and ATS Systems

NAVISTAR INTERNATIONAL TRANSPORTATION CORPORATION

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ELECTRICAL CIRCUIT DIAGRAM

CHAPTER 9

ELECTRONIC ENGINES: CRUISE CONTROL & ELECTRONIC HAND THROTTLE SYSTEM

TO PANEL LIGHT FEED (8-E) (CH 8, PG 6)

TO FUSE F23 (CH 2, PG 3)

TO FUSE F12 (CH 2, PG 1)

TO HYD BRAKE RELAY (CH 7, PG 15)

W/ AIR BRAKES

W/ HYD BRAKES

BRAKE/CRUISE INTERFACE RELAY (1133)

CAB GND

CRUISE/THROTTLE ON/OFF SWITCH (391)

CRUISE/THROTTLE SET/COAST RESUME/ACCEL SWITCH (392)

ECM (379)

PLATFORM GROUND

Wiring details: 62M 18DKBL, 62L 18DKBL, 62-GH 18WH, 97DK 14VT, 97B 18VT, 97DK 16VT, 97DJ 16VT, 97-GM 18WH, 11-G 12WH, 97CF 18VT, 97CF 18LTBL, 198-10, 2-G3 2A-G3, 97DH 18VT, 97DE 18VT, 198-5, 2-F1 2A-F1, 2-F2 2A-F2, 198-6, 62-GF 18WH, 11-G 12WH.

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	RELEASE NO.	DATE	PART NO.	SHEET
SRL	01MAR99	ADDED RELAY (1133)	A	P50916D	U00CLH7	RE30030, GC3953, GD3953	P52550D	15SEP98	AE08-52114	3

Figure 140 Cruise Control and Electronic Hand Throttle System

Control Box System, p. 4

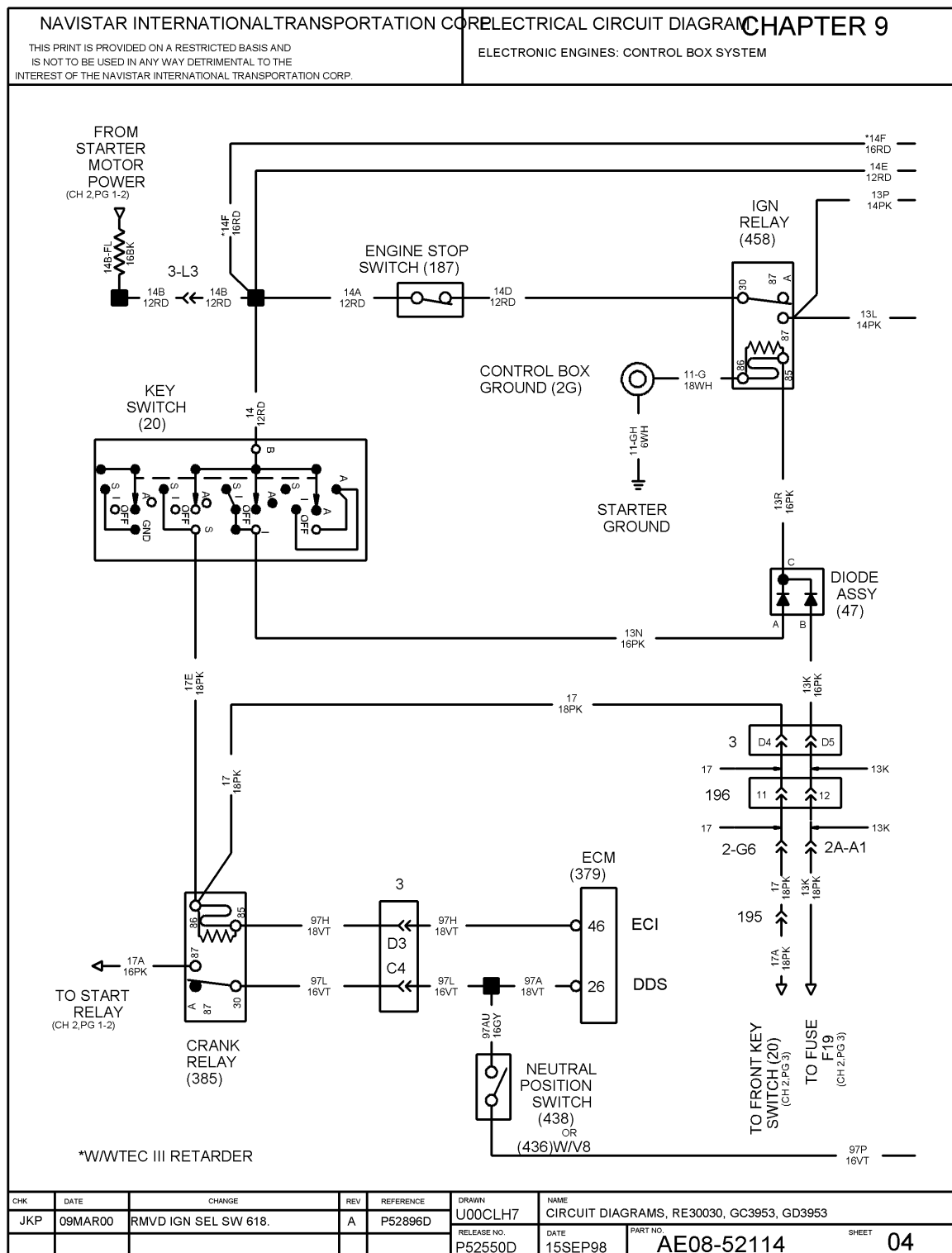


Figure 141 Control Box System

Control Box System (Cont.), p. 5

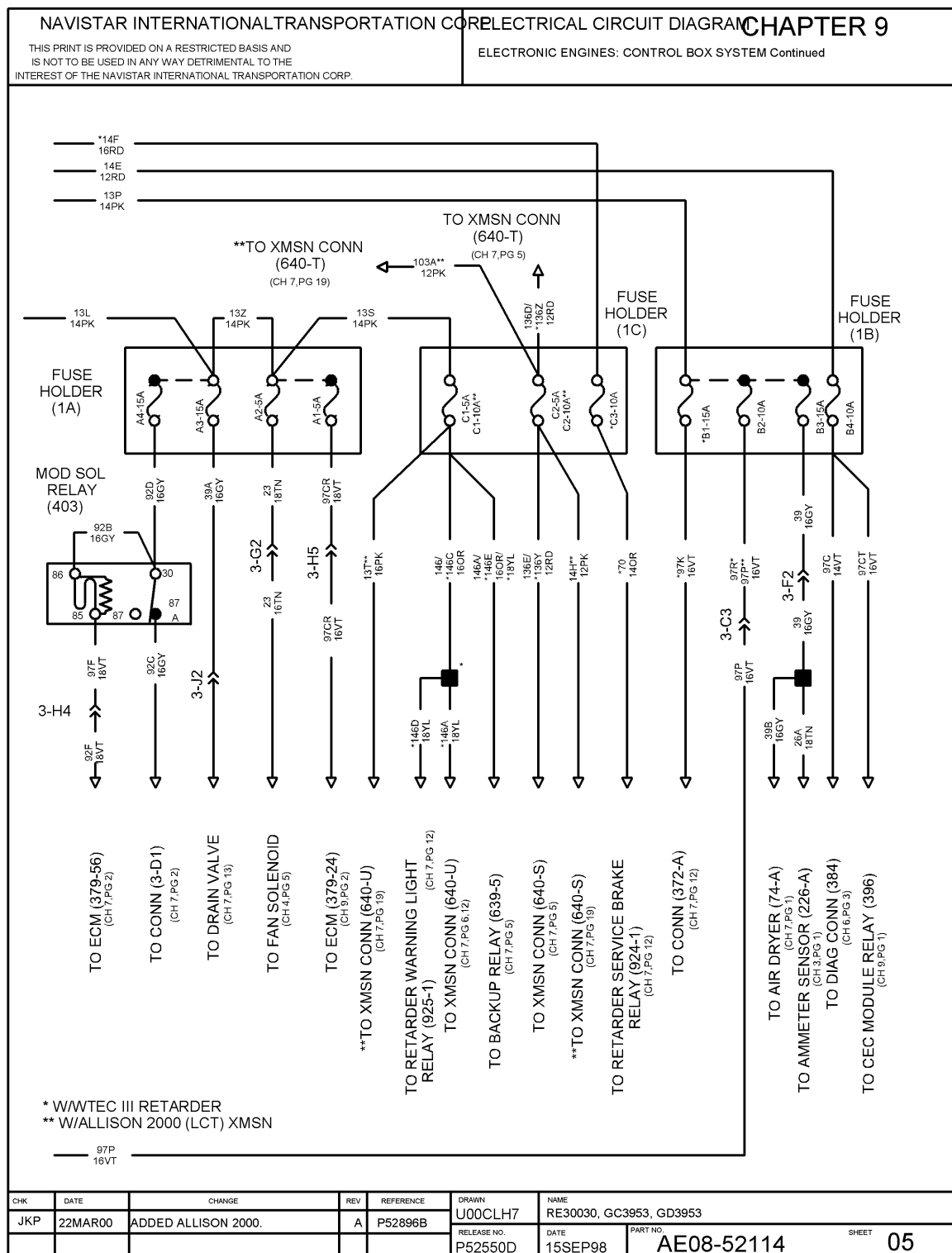


Figure 142 Control Box System (Cont.)

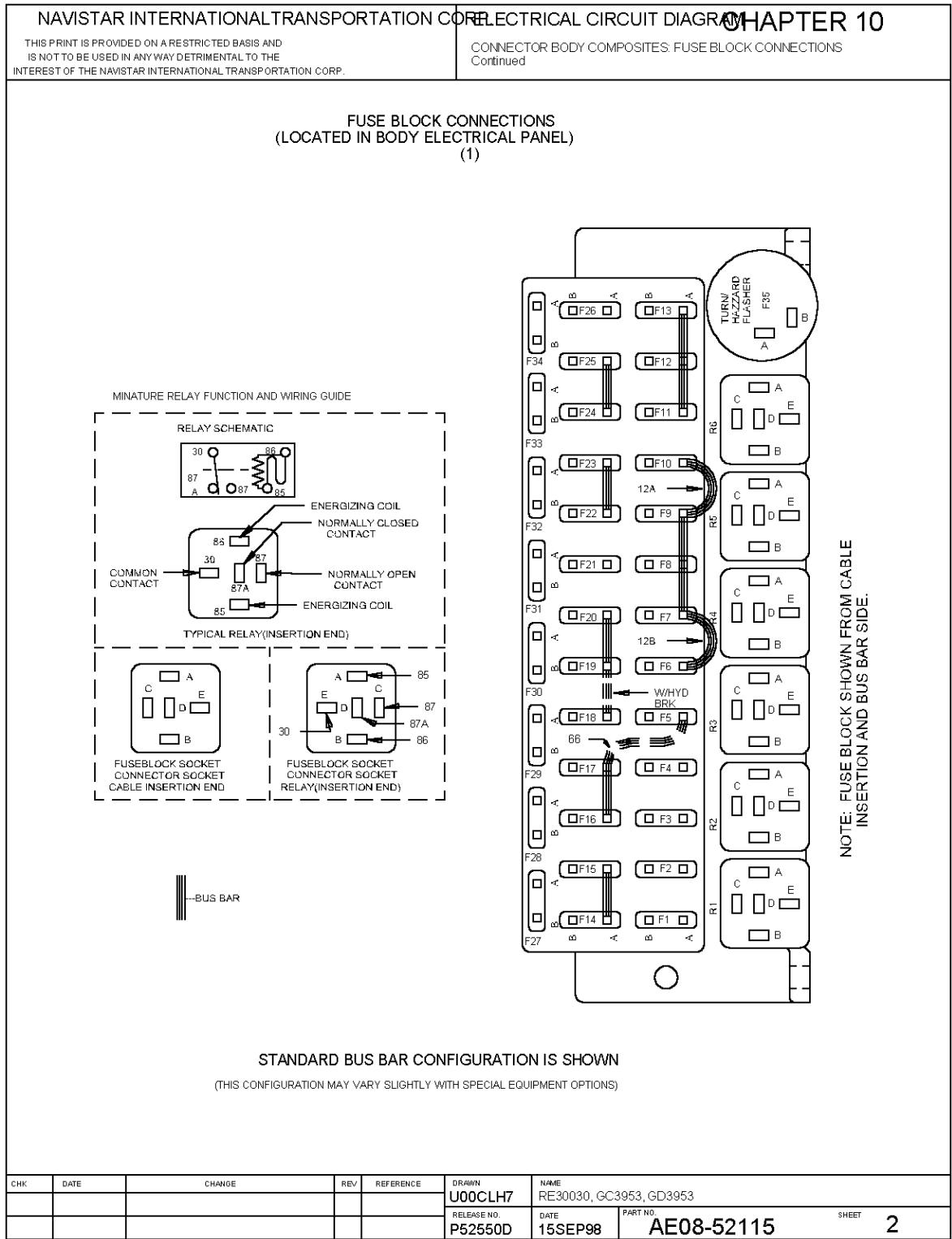
2.10. CONNECTOR COMPOSITES (CHAPTER 10)

Fuse Block Connections

NAVISTAR INTERNATIONAL TRANSPORTATION CORPORATION					ELECTRICAL CIRCUIT DIAGRAM																																																																																																																																																																																																																																																																																																																										
THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE NAVISTAR INTERNATIONAL TRANSPORTATION CORP.					CONNECTOR BODY COMPOSITES: FUSE BLOCK CONNECTIONS																																																																																																																																																																																																																																																																																																																										
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#</th></tr><tr><td>F1-A</td><td></td><td>F12-A</td><td>14A</td><td>F22-A</td><td>(13F)</td><td>F35-A</td><td>55A/60</td><td>R4-A</td><td>*70-G</td></tr><tr><td>F1-B</td><td></td><td>F12-B</td><td>70/97DK</td><td>F22-B</td><td>28</td><td>F35-B</td><td>55</td><td>R4-B</td><td>*70D</td></tr><tr><td>F2-A</td><td>*90A</td><td>F13-A</td><td>*70B</td><td>F23-A</td><td>13F</td><td></td><td></td><td>R4-C</td><td>*70A</td></tr><tr><td>F2-B</td><td>*90B</td><td>F13-B</td><td>(14A)</td><td>F23-B</td><td>97B</td><td></td><td></td><td>R4-D</td><td>*90C</td></tr><tr><td>F2-C</td><td>*90U</td><td>F14-A</td><td>55</td><td>F24-A</td><td>(13H)</td><td></td><td></td><td></td><td></td></tr><tr><td>F3-A</td><td></td><td>F14-B</td><td>14C</td><td>F24-B</td><td>71</td><td></td><td></td><td></td><td></td></tr><tr><td>F3-B</td><td></td><td>F14-C</td><td>50A</td><td>F24-C</td><td>13B</td><td></td><td></td><td></td><td></td></tr><tr><td>F4-A</td><td></td><td>F15-A</td><td>(14C)</td><td>F25-A</td><td>13H</td><td></td><td></td><td>R4-E</td><td>*70B</td></tr><tr><td>F4-B</td><td></td><td>F15-B</td><td>50</td><td>F25-B</td><td>98E</td><td></td><td></td><td></td><td>*70D</td></tr><tr><td>F4-C</td><td></td><td>F16-A</td><td>19</td><td>F26-A</td><td>19J</td><td></td><td></td><td>R5-A</td><td>11-GA</td></tr><tr><td>F4-D</td><td></td><td>F16-B</td><td>15</td><td>F26-B</td><td>13E</td><td></td><td></td><td></td><td></td></tr><tr><td>F5-A</td><td>66</td><td>F17-A</td><td>(19)/66</td><td>F27-A</td><td>13D</td><td></td><td></td><td>R5-B</td><td>19D</td></tr><tr><td>F5-B</td><td>66A</td><td>F17-B</td><td>19H</td><td>F27-B</td><td>13C</td><td></td><td></td><td></td><td>19E</td></tr><tr><td>F6-A</td><td>12B</td><td>F18-A</td><td>*(13A)</td><td>F28-A</td><td>13J/*94D</td><td></td><td></td><td>R5-C</td><td>19A</td></tr><tr><td>F6-B</td><td>66B</td><td>F18-B</td><td>*90T</td><td>F28-B</td><td>14E</td><td></td><td></td><td>R5-D</td><td></td></tr><tr><td></td><td></td><td>F19-A</td><td>(13A)</td><td>F29-A</td><td>97C</td><td></td><td></td><td>R5-E</td><td>19H</td></tr><tr><td></td><td></td><td>F19-B</td><td>13K</td><td>F30-A</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>F7-A</td><td>12B</td><td></td><td></td><td>F30-B</td><td></td><td></td><td></td><td>R6-A</td><td>85A</td></tr><tr><td></td><td>(12)</td><td></td><td></td><td>F31-A</td><td></td><td></td><td></td><td></td><td>85</td></tr><tr><td>F7-B</td><td></td><td>F20-A</td><td>13A</td><td>F31-B</td><td></td><td></td><td></td><td>R6-B</td><td>85B</td></tr><tr><td>F8-A</td><td>12</td><td>F20-B</td><td>19D</td><td>F32-A</td><td></td><td></td><td></td><td>R6-C</td><td>85C</td></tr><tr><td>F8-B</td><td>12C</td><td>F21-A</td><td>62/51F</td><td>F32-B</td><td></td><td></td><td></td><td>R6-D</td><td></td></tr><tr><td></td><td>(12)</td><td>F21-B</td><td>62A</td><td>F32-C</td><td></td><td></td><td></td><td>R6-E</td><td>85B</td></tr><tr><td>F9-A</td><td>12A</td><td></td><td></td><td>F33-A</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>F9-B</td><td>12D</td><td></td><td></td><td>F33-B</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>F10-A</td><td>12A</td><td></td><td></td><td>F34-A</td><td>94</td><td></td><td></td><td></td><td></td></tr><tr><td>F10-B</td><td>**31D</td><td></td><td></td><td>F34-B</td><td>94A</td><td></td><td></td><td></td><td></td></tr><tr><td>F11-A</td><td>(14A)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>F11-B</td><td>85</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										FUSE BLOCK		FUSE BLOCK		FUSE BLOCK		RELAYS		RELAYS		CAVITY	CIRCUIT #	CAVITY	CIRCUIT #	CAVITY	CIRCUIT #	CAVITY	CIRCUIT #	CAVITY	CIRCUIT #	F1-A		F12-A	14A	F22-A	(13F)	F35-A	55A/60	R4-A	*70-G	F1-B		F12-B	70/97DK	F22-B	28	F35-B	55	R4-B	*70D	F2-A	*90A	F13-A	*70B	F23-A	13F			R4-C	*70A	F2-B	*90B	F13-B	(14A)	F23-B	97B			R4-D	*90C	F2-C	*90U	F14-A	55	F24-A	(13H)					F3-A		F14-B	14C	F24-B	71					F3-B		F14-C	50A	F24-C	13B					F4-A		F15-A	(14C)	F25-A	13H			R4-E	*70B	F4-B		F15-B	50	F25-B	98E				*70D	F4-C		F16-A	19	F26-A	19J			R5-A	11-GA	F4-D		F16-B	15	F26-B	13E					F5-A	66	F17-A	(19)/66	F27-A	13D			R5-B	19D	F5-B	66A	F17-B	19H	F27-B	13C				19E	F6-A	12B	F18-A	*(13A)	F28-A	13J/*94D			R5-C	19A	F6-B	66B	F18-B	*90T	F28-B	14E			R5-D				F19-A	(13A)	F29-A	97C			R5-E	19H			F19-B	13K	F30-A						F7-A	12B			F30-B				R6-A	85A		(12)			F31-A					85	F7-B		F20-A	13A	F31-B				R6-B	85B	F8-A	12	F20-B	19D	F32-A				R6-C	85C	F8-B	12C	F21-A	62/51F	F32-B				R6-D			(12)	F21-B	62A	F32-C				R6-E	85B	F9-A	12A			F33-A						F9-B	12D			F33-B						F10-A	12A			F34-A	94					F10-B	**31D			F34-B	94A					F11-A	(14A)									F11-B	85								
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CIRCUIT LOCATION MAY VARY SLIGHTLY. REFER TO SYSTEM SCHEMATIC FOR SPECIFIC CIRCUITS.																																																																																																																																																																																																																																																																																																																															
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SRL	01MAR99	ADDED CIR 97DK-2 PLCS	B	P50916D	RELEASE NO. P52550D	DATE 15SEP98	PART NO. AE08-52115	SHEET 1																																																																																																																																																																																																																																																																																																																							

Figure 143 Fuse Block Connections

Fuse Block Connections (Cont.)



Fuse/Circuit Breaker Chart

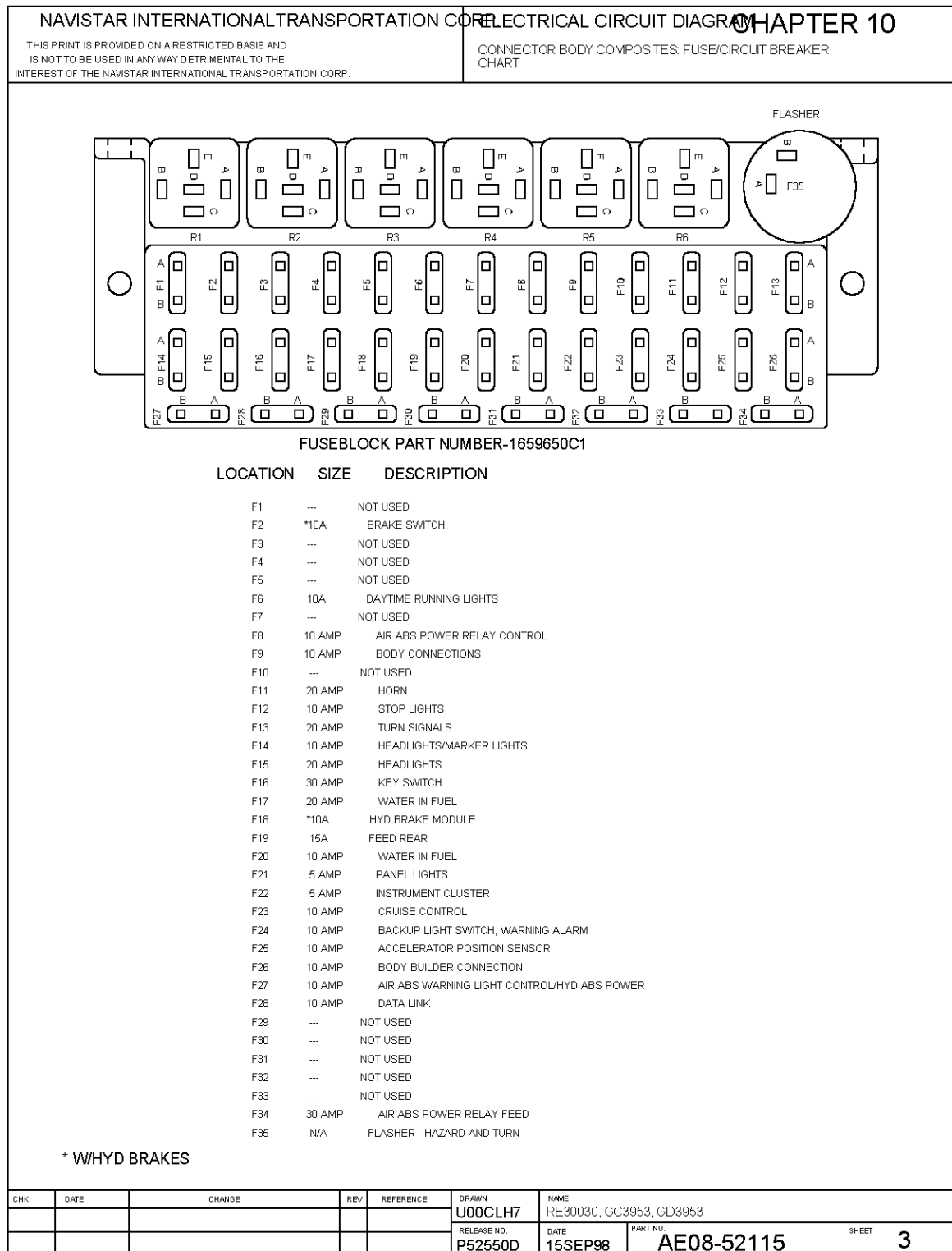
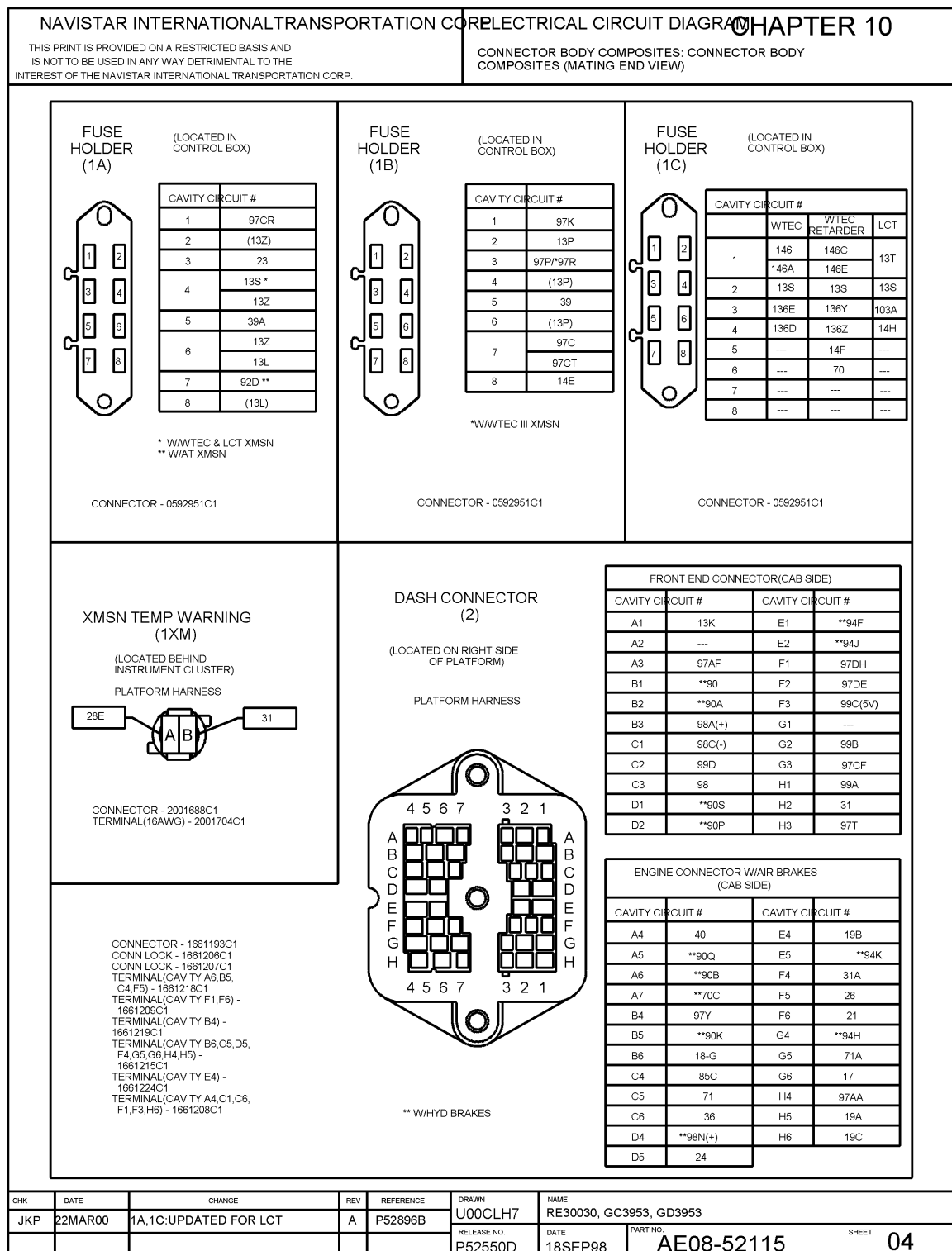


Figure 145 Fuse/Circuit Breaker Chart

Connector Composites (1A), (1B), (1C), (1XM), (2)

Figure 146 Connector Composites (1A), (1B), (1C), (1XM), (2)

Connector Composites (2A), (2F)

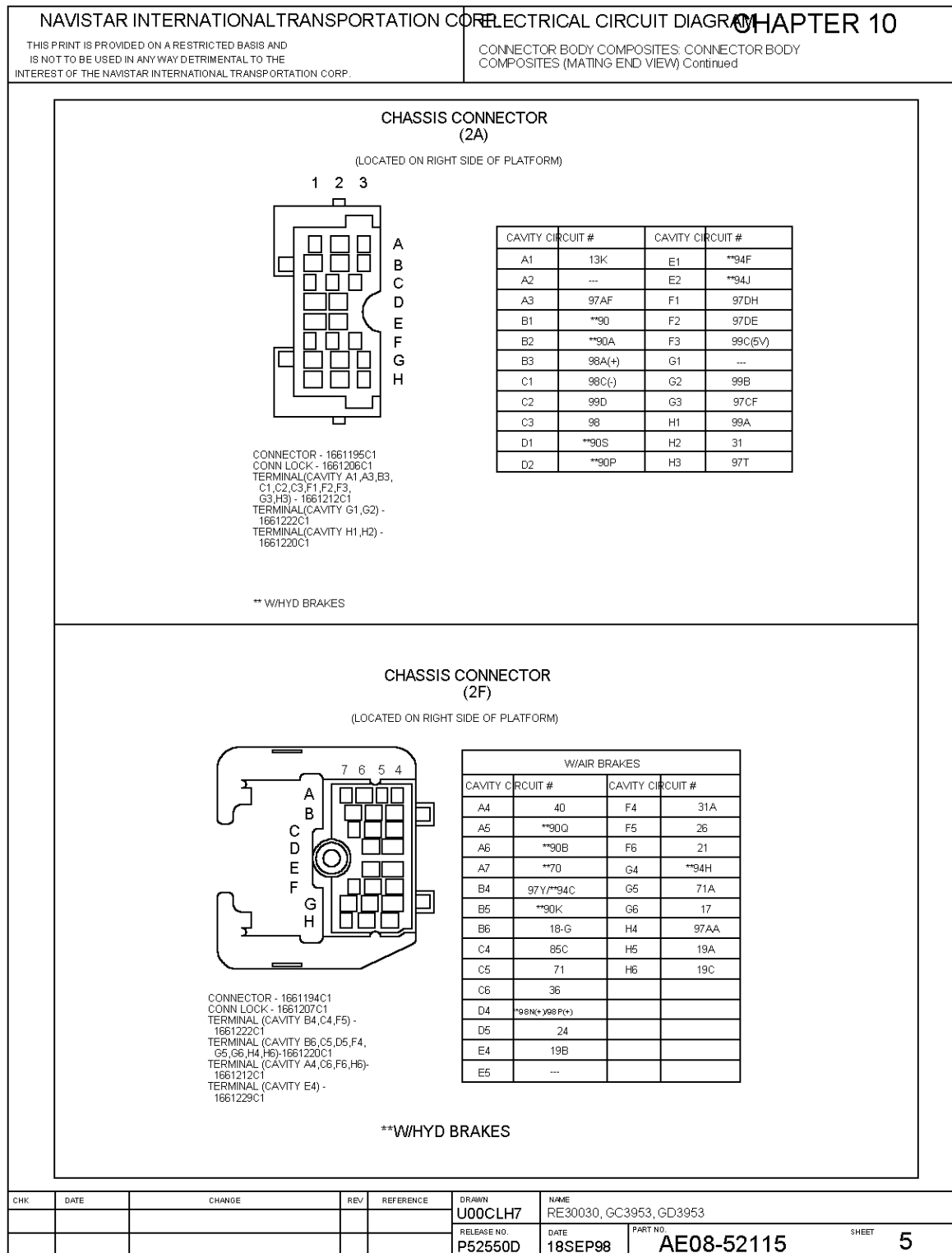


Figure 147 Connector Composites (2A), (2F)

Connector Composite (3)

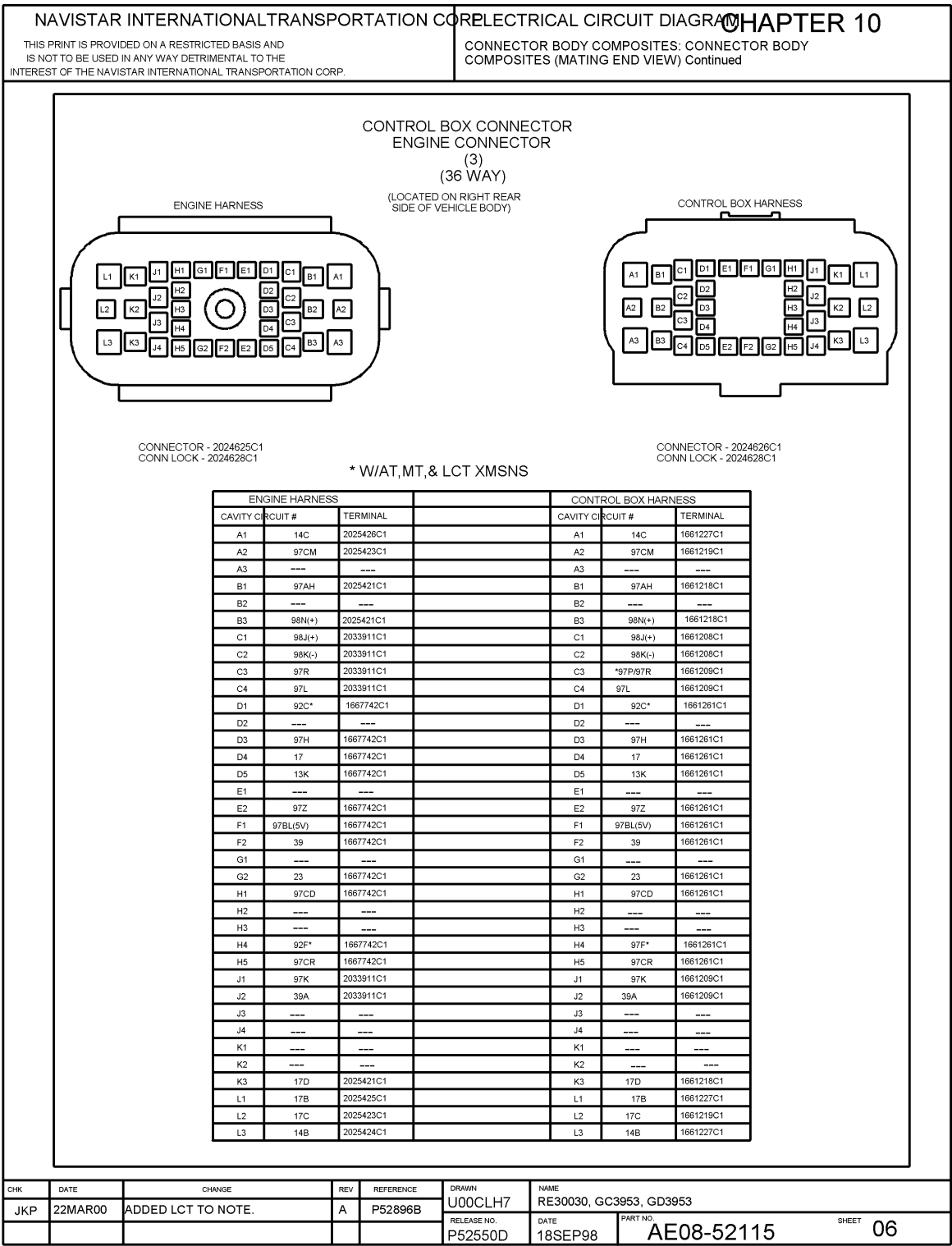


Figure 148 Connector Composite (3)

Connector Composites (4), (6), (7), (8), (9), (11), (12)

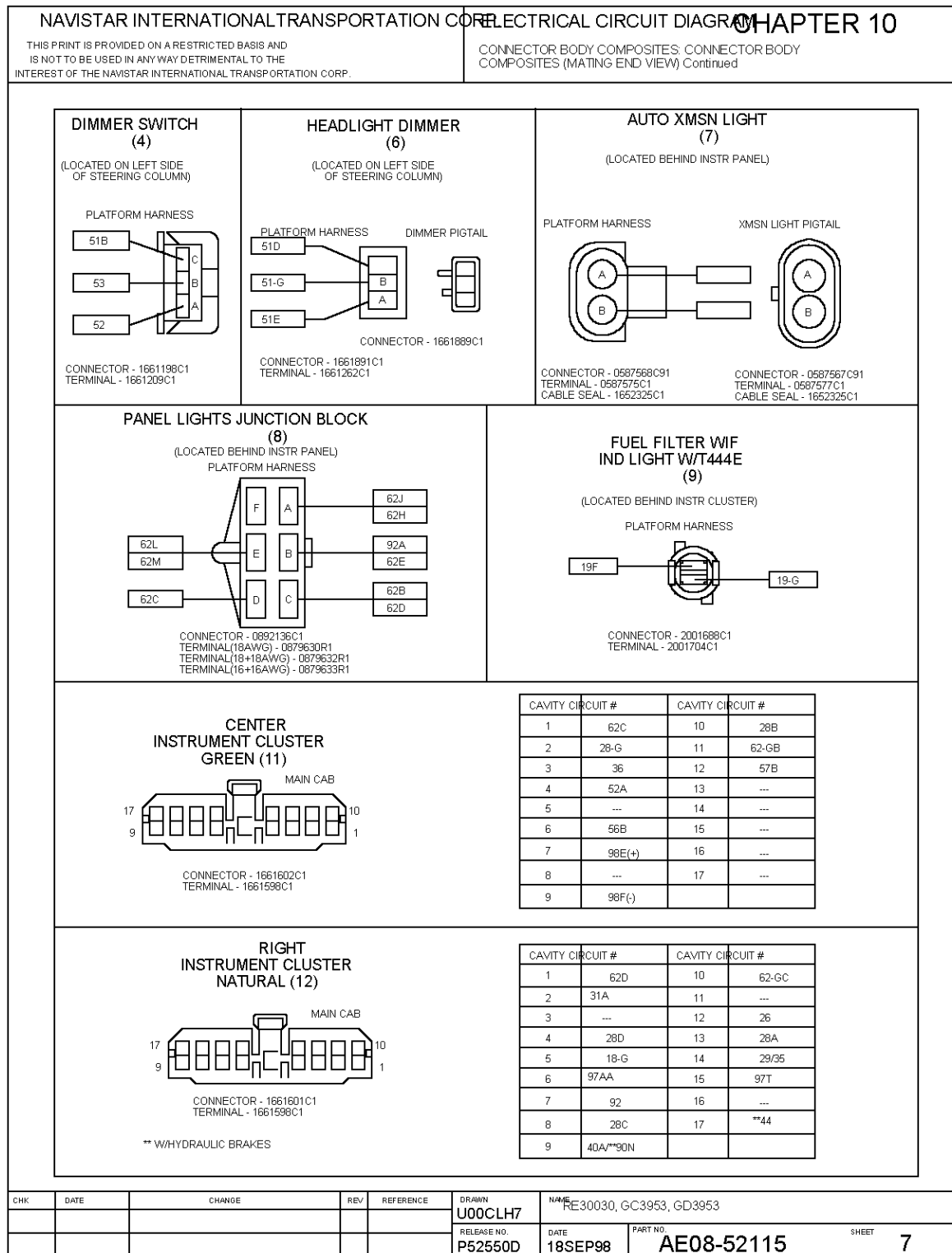


Figure 149 Connector Composites (4), (6), (7), (8), (9), (11), (12)

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CHAPTER 10

CONNECTOR BODY COMPOSITES: CONNECTOR BODY COMPOSITES (MATING END VIEW) Continued

TURN SIGNAL (13)

(LOCATED ON LEFT SIDE OF STEERING COLUMN)

CONNECTOR - 1661200C1
TERMINAL - 1661209C1

CONNECTOR - 1661201C1
TERMINAL(16AWG) - 1661213C1
TERMINAL(16+16AWG) - 1661214C1

FUEL FILTER W/F MODULE W/T444E (16)

(LOCATED BEHIND INSTR. PANEL)

WARNING LIGHT HARNESS

CONNECTOR - 2036585C1
TERMINAL - 2036586C1

REAR KEY SWITCH (20)

CONTROL BOX HARNESS

CONNECTOR - 0293347C1
TERMINAL(16AWG) - 0188396R1
TERMINAL(18AWG) - 0879630R1
TERMINAL(12AWG) - 1660577C1

FRONT KEY SWITCH (20)

PLATFORM HARNESS

CONNECTOR - 0293347C1
TERMINAL(16AWG) - 0879633R1
TERMINAL(14AWG) - 0188396R1
TERMINAL(10AWG) - 1660025C1

ETHER START (21)

PLATFORM HARNESS
W/I6-ENG

CONNECTOR - 0587567C91
TERMINAL(16AWG) - 0587577C1

PANEL LIGHTS (22)

(LOCATED BEHIND INSTRUMENT PANEL)

PLATFORM HARNESS

PANEL LIGHT DIMMER PIGTAIL

CONNECTOR - 1661198C1
TERMINAL(18AWG) - 1661208C1
TERMINAL(16AWG) - 1661209C1

CONNECTOR - 1661199C1

HEADLIGHT SWITCH (23)

(LOCATED BEHIND INSTRUMENT PANEL, LEFT SIDE)

PLATFORM HARNESS

CAVITY	CIRCUIT #
1	62
2	50A
3	58
4	---
5	50C
6	51
7	62B
8	62-GG

CONNECTOR - 2009385C1
TERMINAL 1-6 (16AWG) - 1661226C1
TERMINAL 1-6 (12,10AWG) - 1661227C1

BRAKE WARNING LIGHT BLOCKING DIODE (25)

(LOCATED LEFT OF STEERING WHEEL BRKT)

PLATFORM HARNESS

DIODE ASSEMBLY

DIODE

CONNECTOR - 872291R1
TERMINAL(16+16AWG) - 0879633R1
TERMINAL(16,14AWG) - 0188396R1

DIODE ASSEMBLY
PART NUMBER - 0467404C91

CHK	DATE	CHANGE	REV	REFERENCE
JPK	22MAR00	REAR KEY SW (20):17E	A	P52896B
		WAS 17BB. UPDATED TERMINALS.		

DRAWN	NAME	RELEASE NO.	DATE	PART NO.	SHEET
U00CLH7	RE30030, GC3953, GD3953	P52550D	18SEP98	AE08-52115	08

Figure 150 Connector Composites (13), (16), (20), (21), (22), (23), (25)

Connector Composites (32), (37), (42), (43), (47), (64), (69), (74)

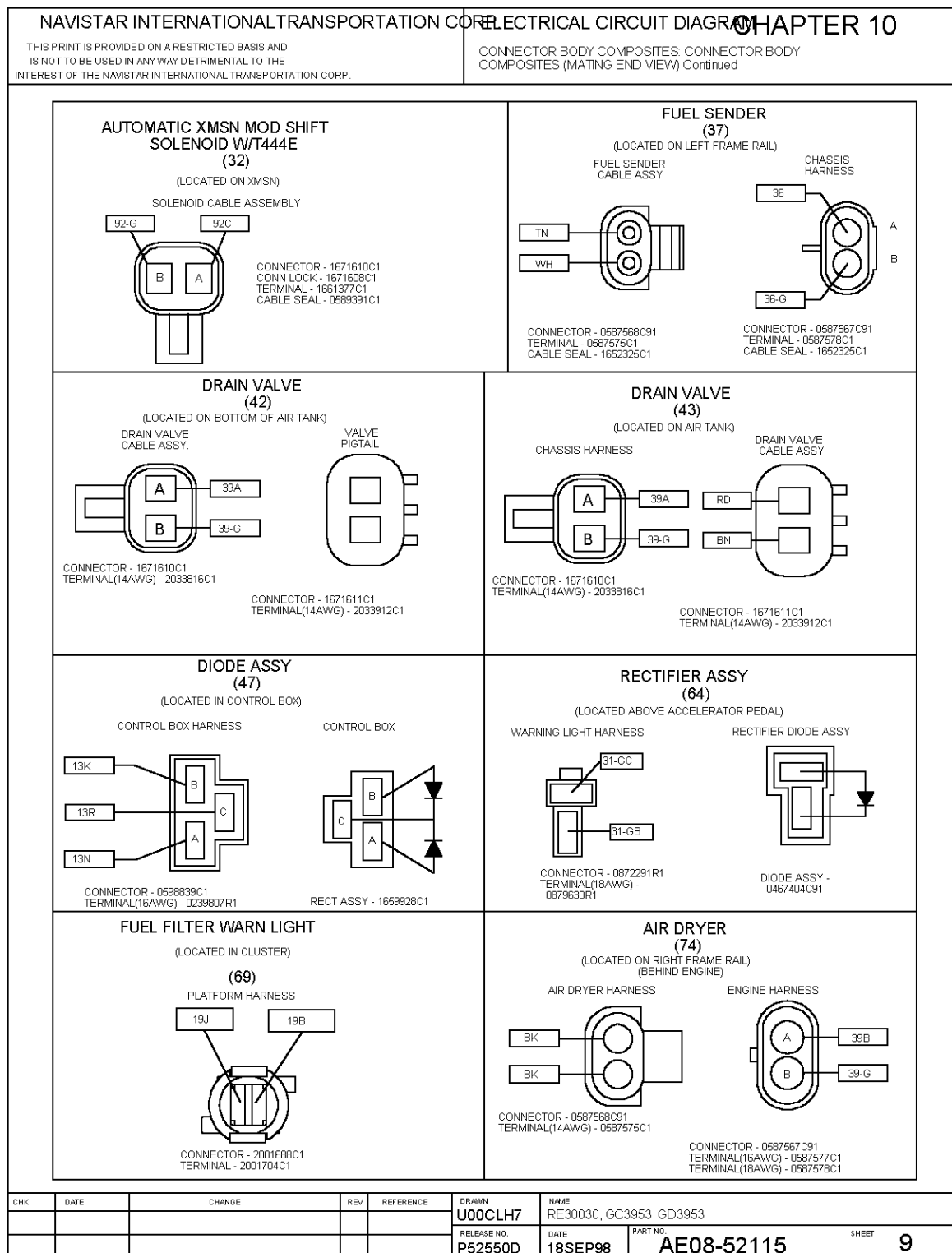


Figure 151 Connector Composites (32), (37), (42), (43), (47), (64), (69), (74)

Connector Composites (75), (78), (79), (80), (82), (86)

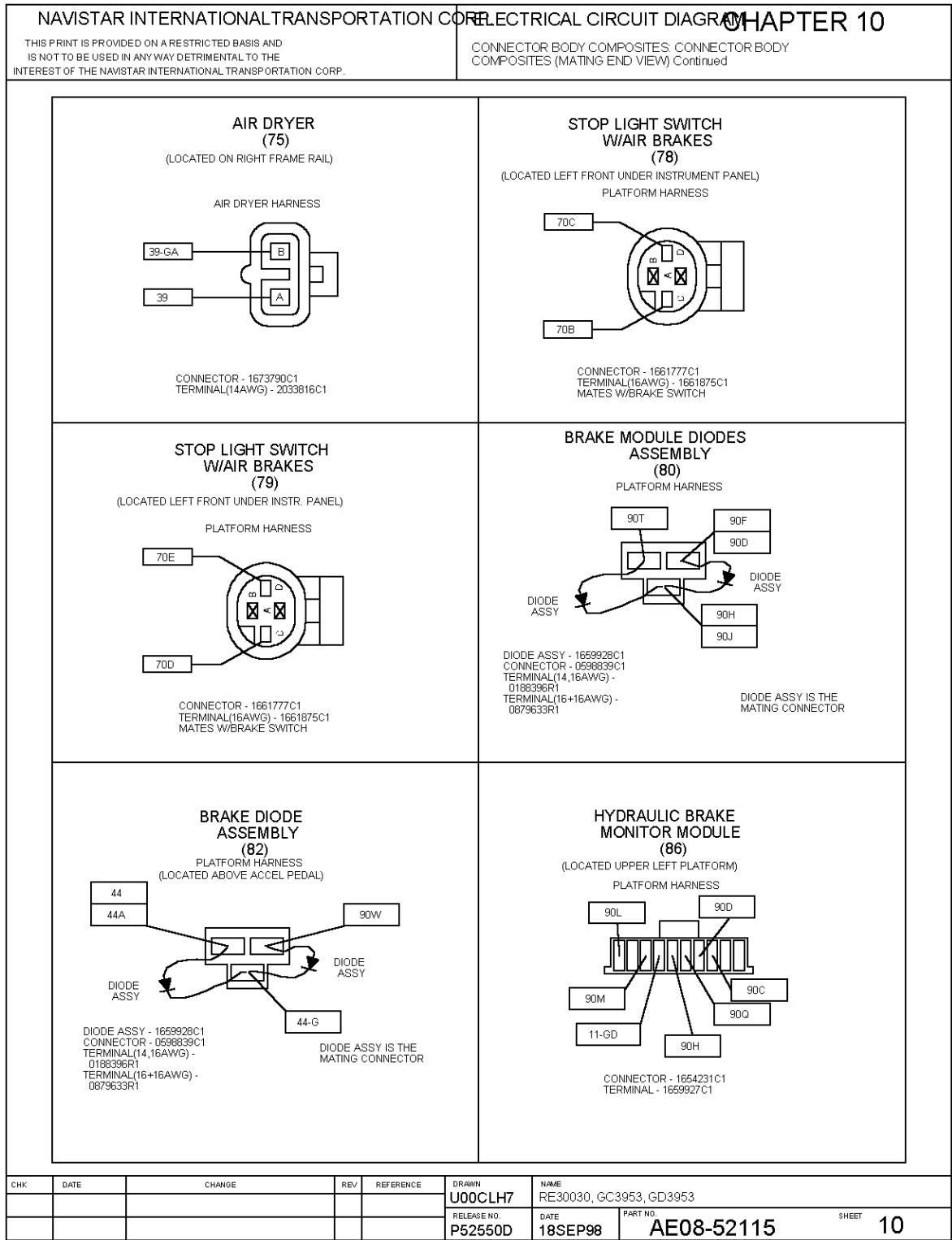


Figure 152 Connector Composites (75), (78), (79), (80), (82), (86)

Connector Composites (88), (89), (90), (91), (94), (100)

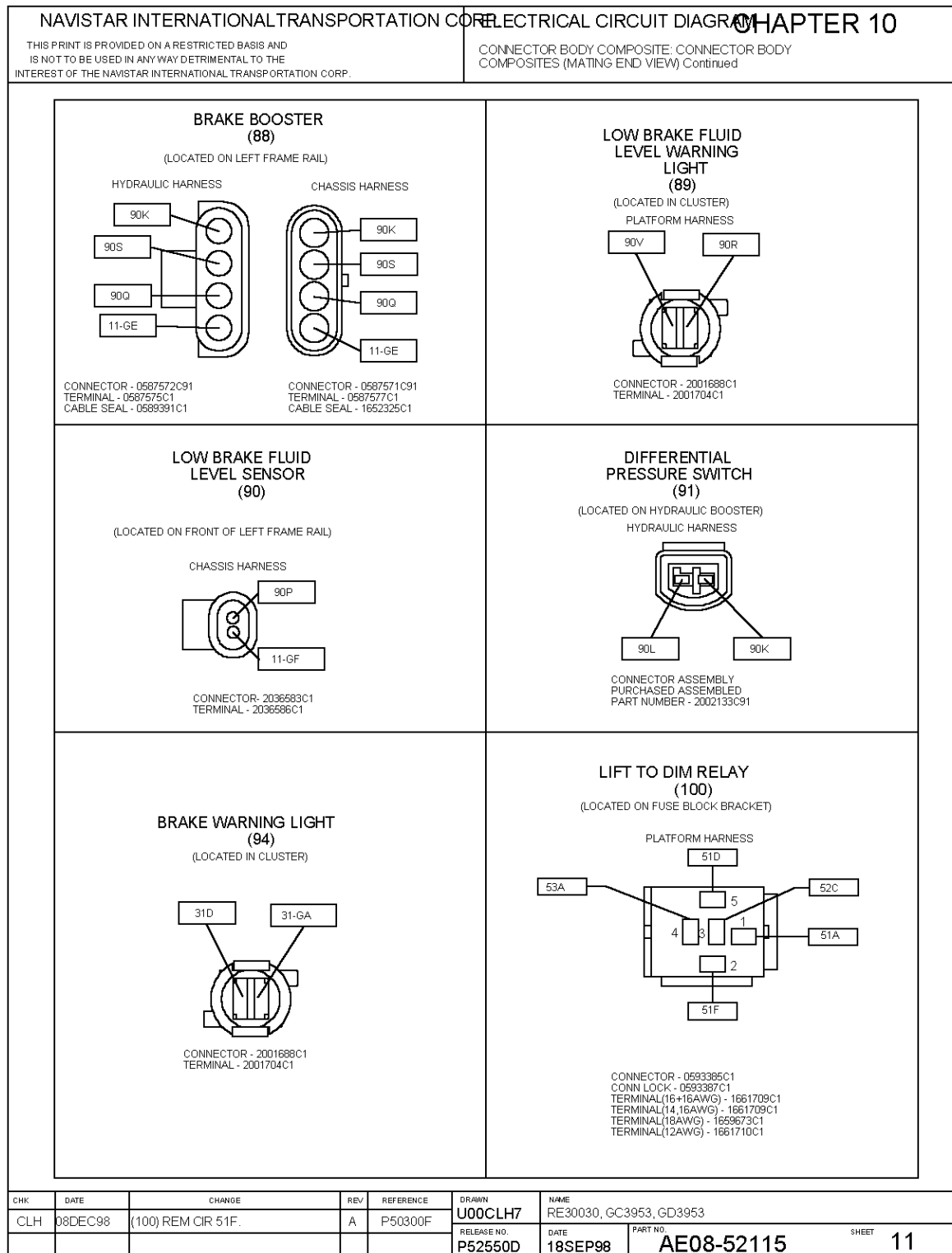
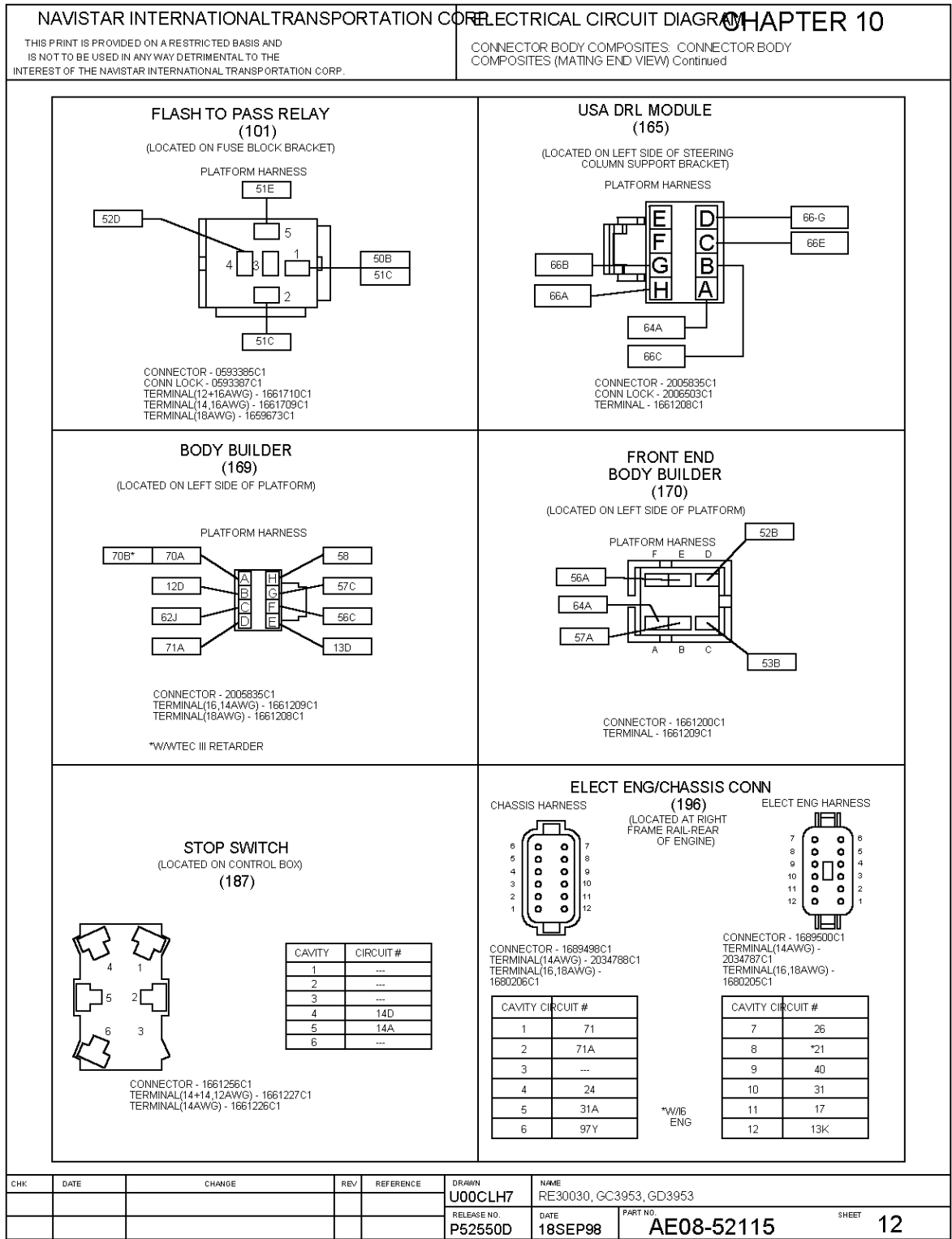
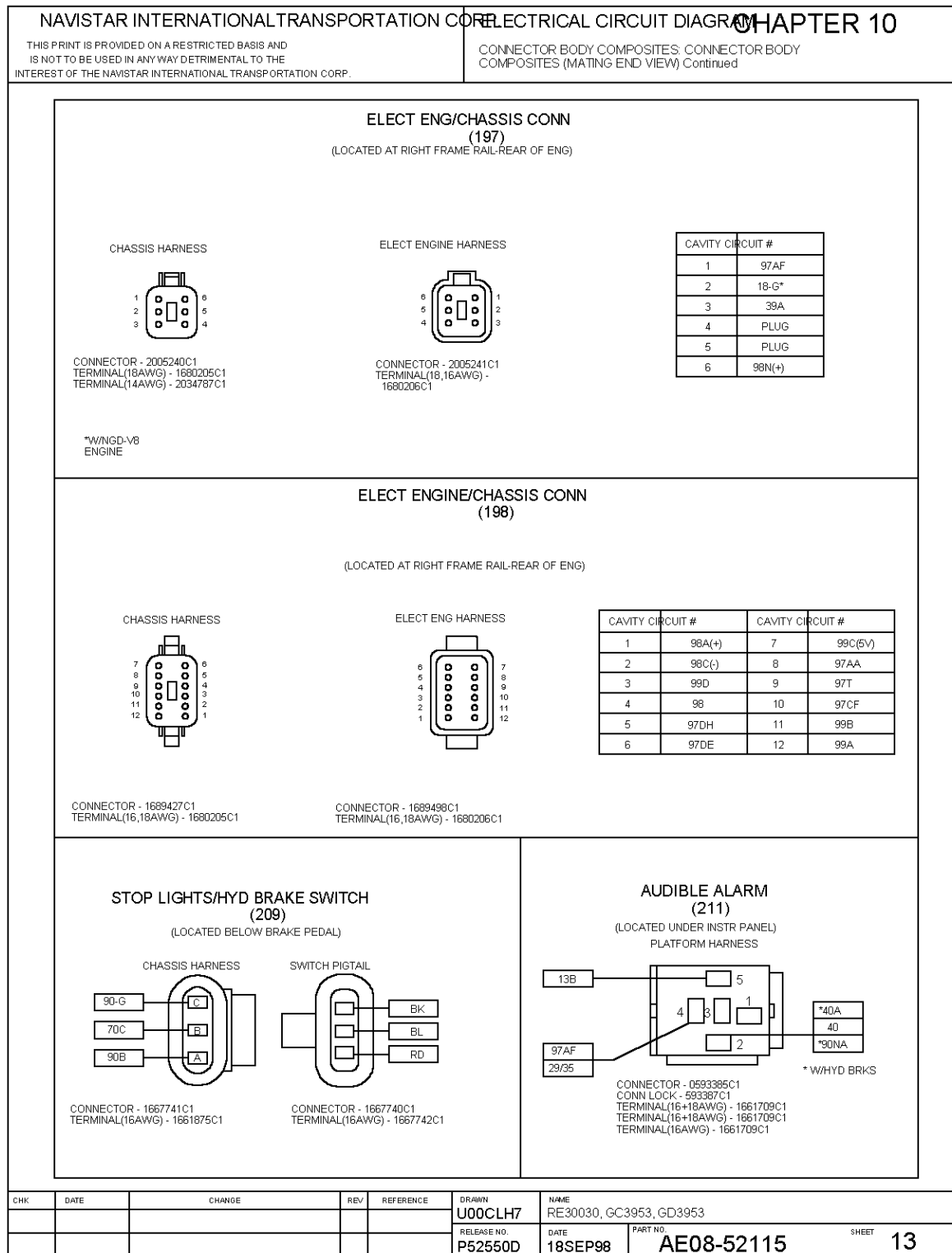


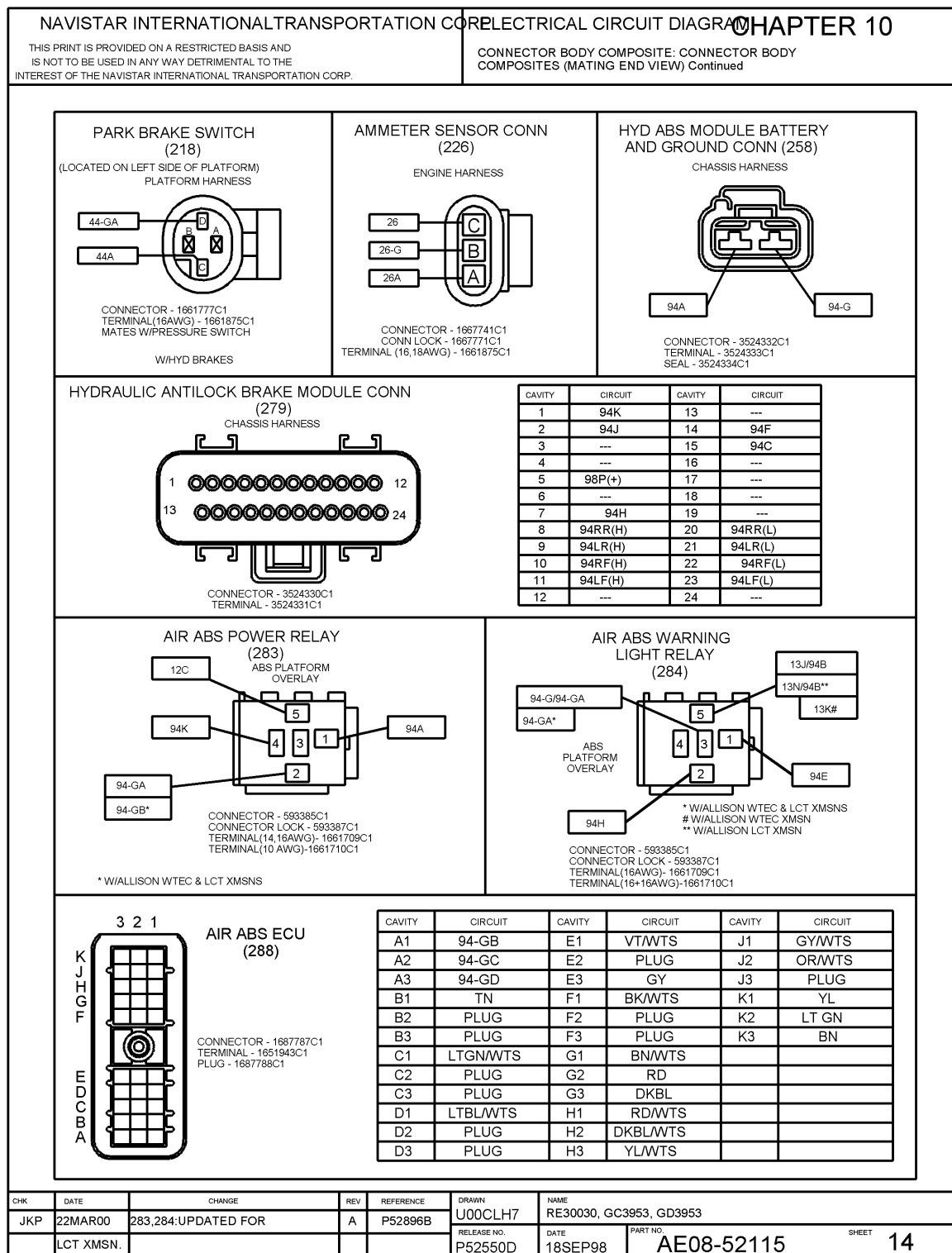
Figure 153 Connector Composites (88), (89), (90), (91), (94), (100)

Connector Composites (101), (165), (169), (170), (187), (196)



Connector Composites (197), (198), (209), (211)



Connector Composites (218), (226), (258), (279), (283), (284), (288)

Figure 156 Connector Composites (218), (226), (258), (279), (283), (284), (288)

Connector Composites (289), (290), (291), (292), (293), (295), (297), (303), (304F)

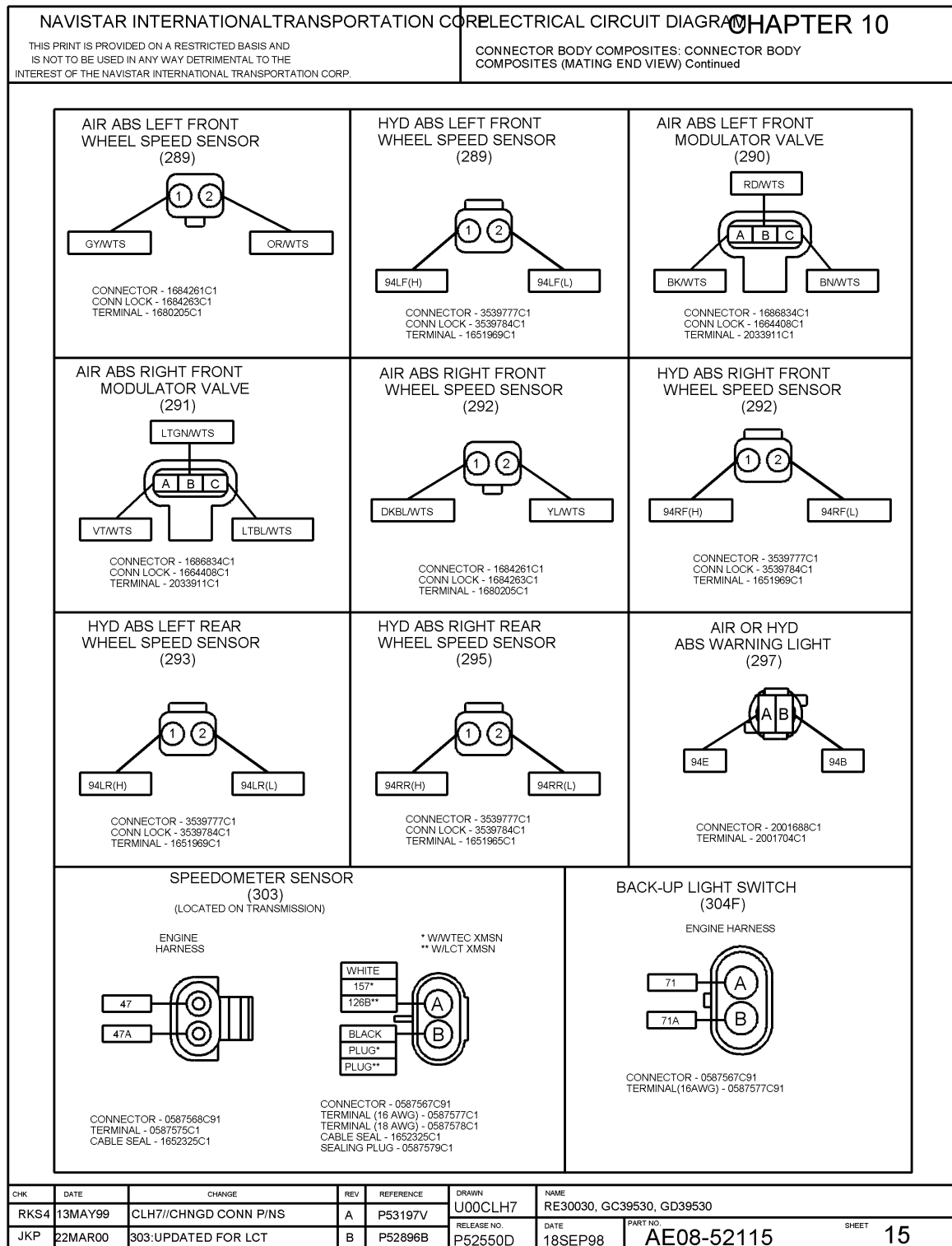
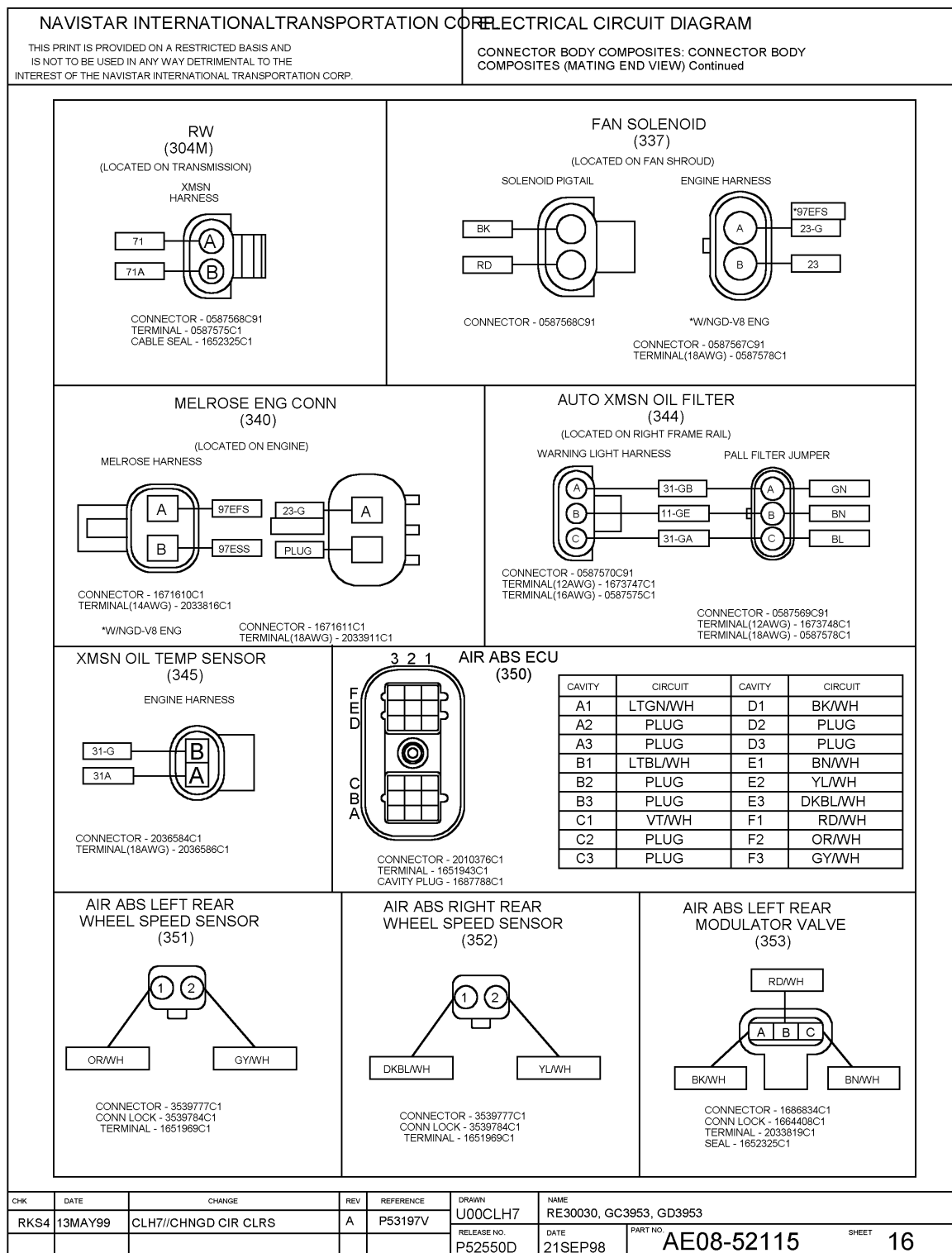


Figure 157 Connector Composites (289), (290), (291), (292), (293), (295), (297), (303), (304F)

Connector Composites (304M), (337), (340), (344), (345), (350), (351), (352), (353)

Figure 158 Connector Composites (304M), (337), (340), (344), (345), (350), (351), (352), (353)

Connector Composites (354), (372), (373), (374), (375), (376), (377)

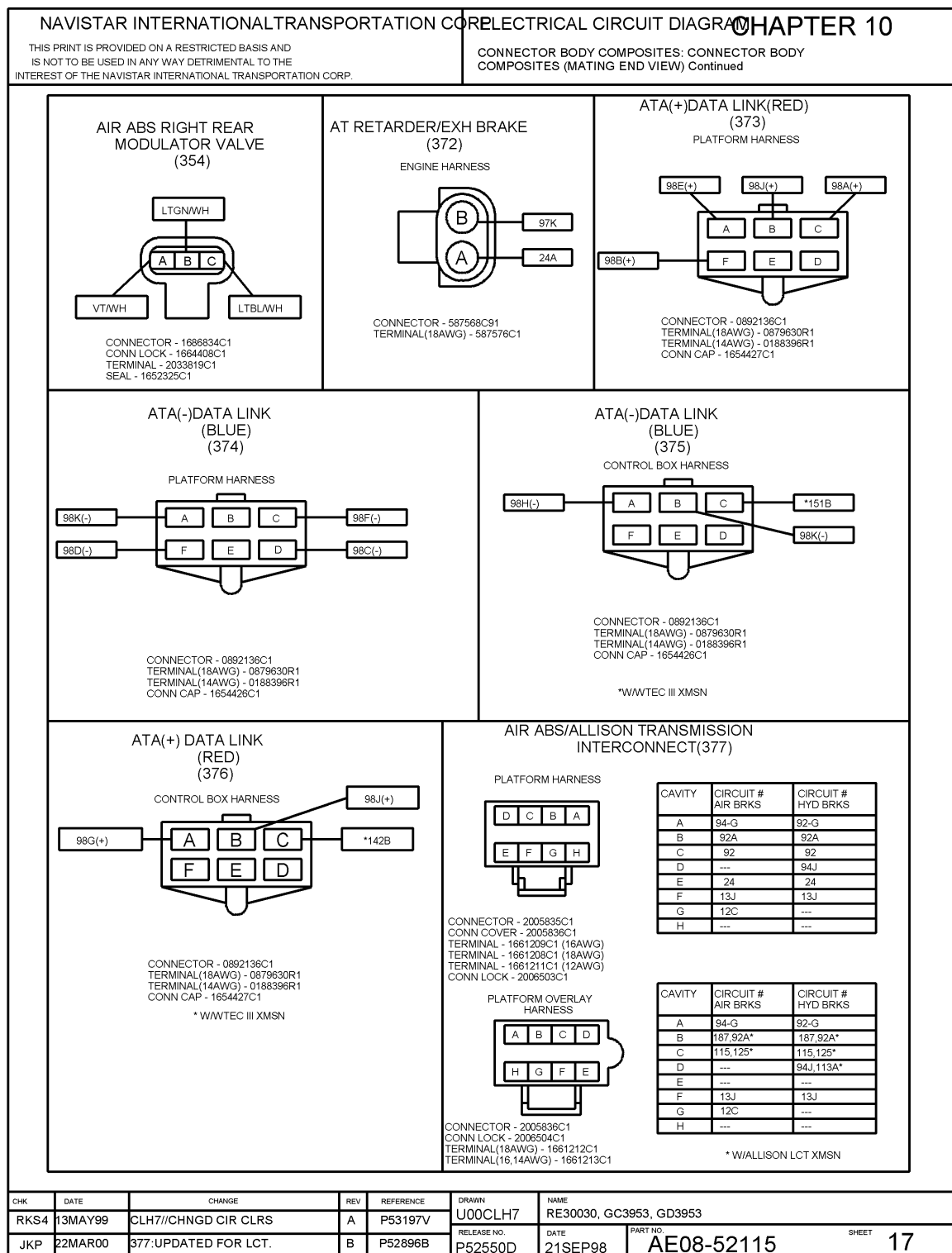
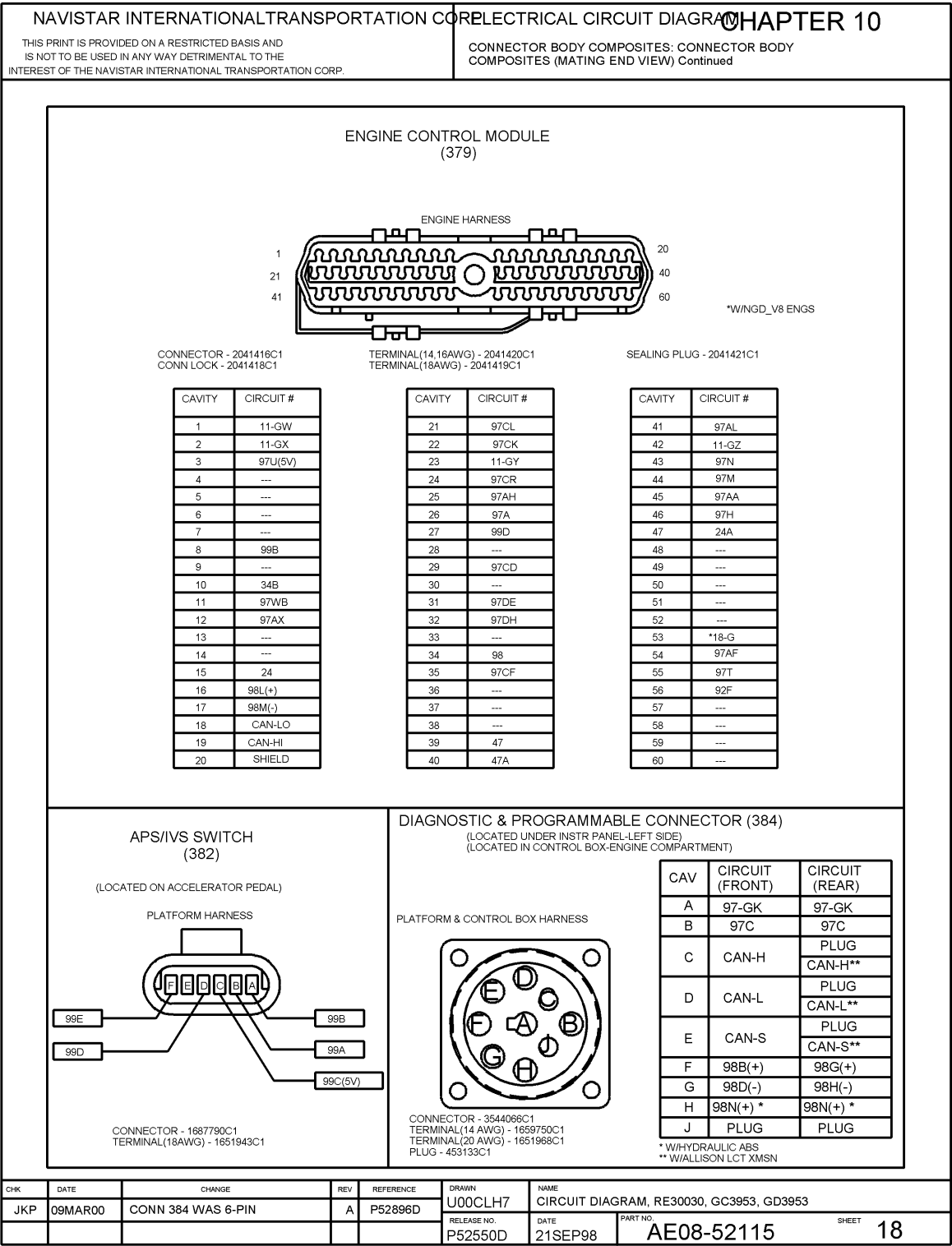


Figure 159 Connector Composites (354), (372), (373), (374), (375), (376), (377)

Connector Composites (379), (382), (384)



CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
JKP	09MAR00	CONN 384 WAS 6-PIN	A	P52896D	U00CLH7	CIRCUIT DIAGRAM, RE30030, GC3953, GD3953
					RELEASE NO. P52550D	DATE 21SEP98
					PART NO. AE08-52115	SHEET 18

Figure 160 Connector Composites (379), (382), (384)

Connector Composites (385), (387M), (389M), (391), (392), (396), (400), (401), (403)

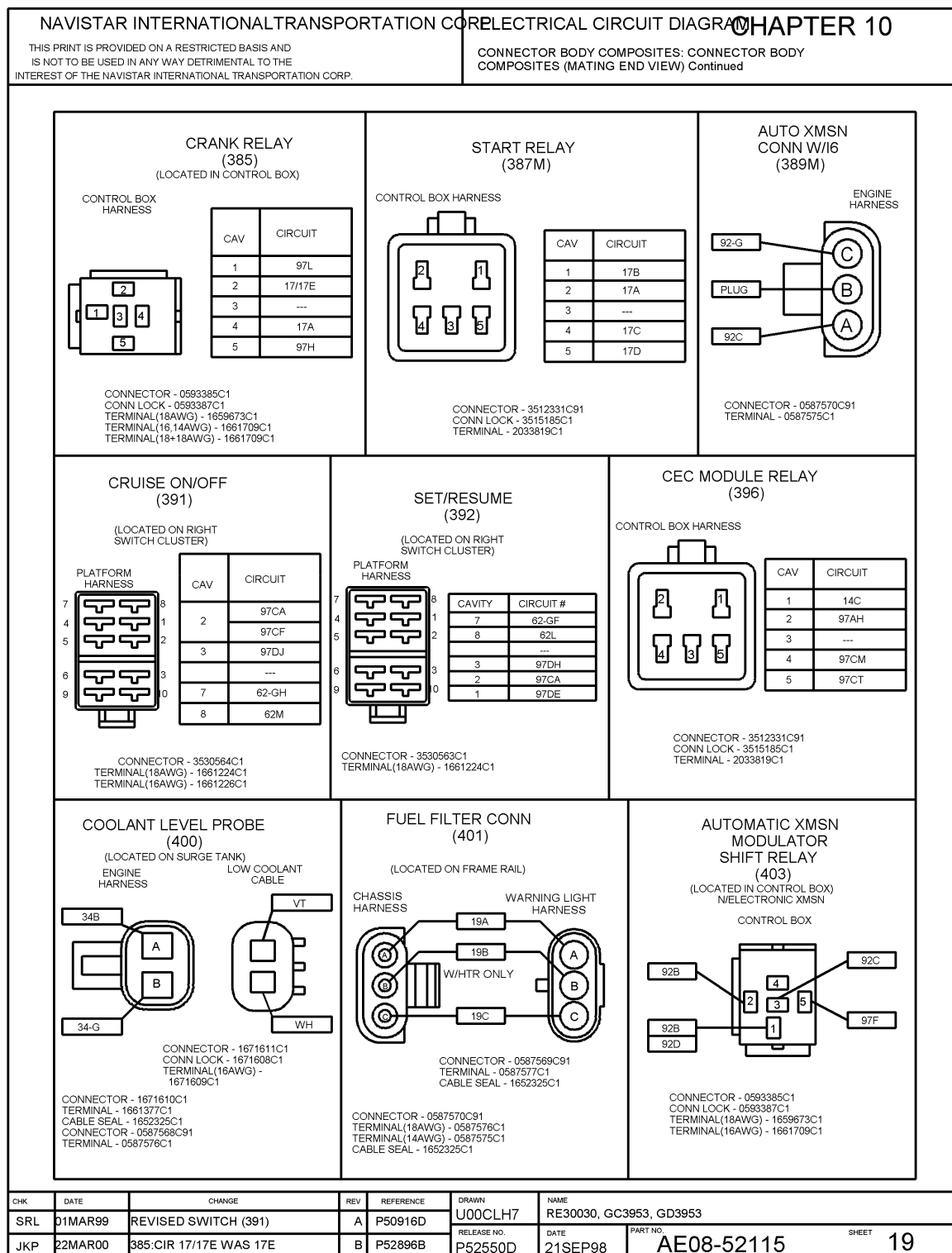
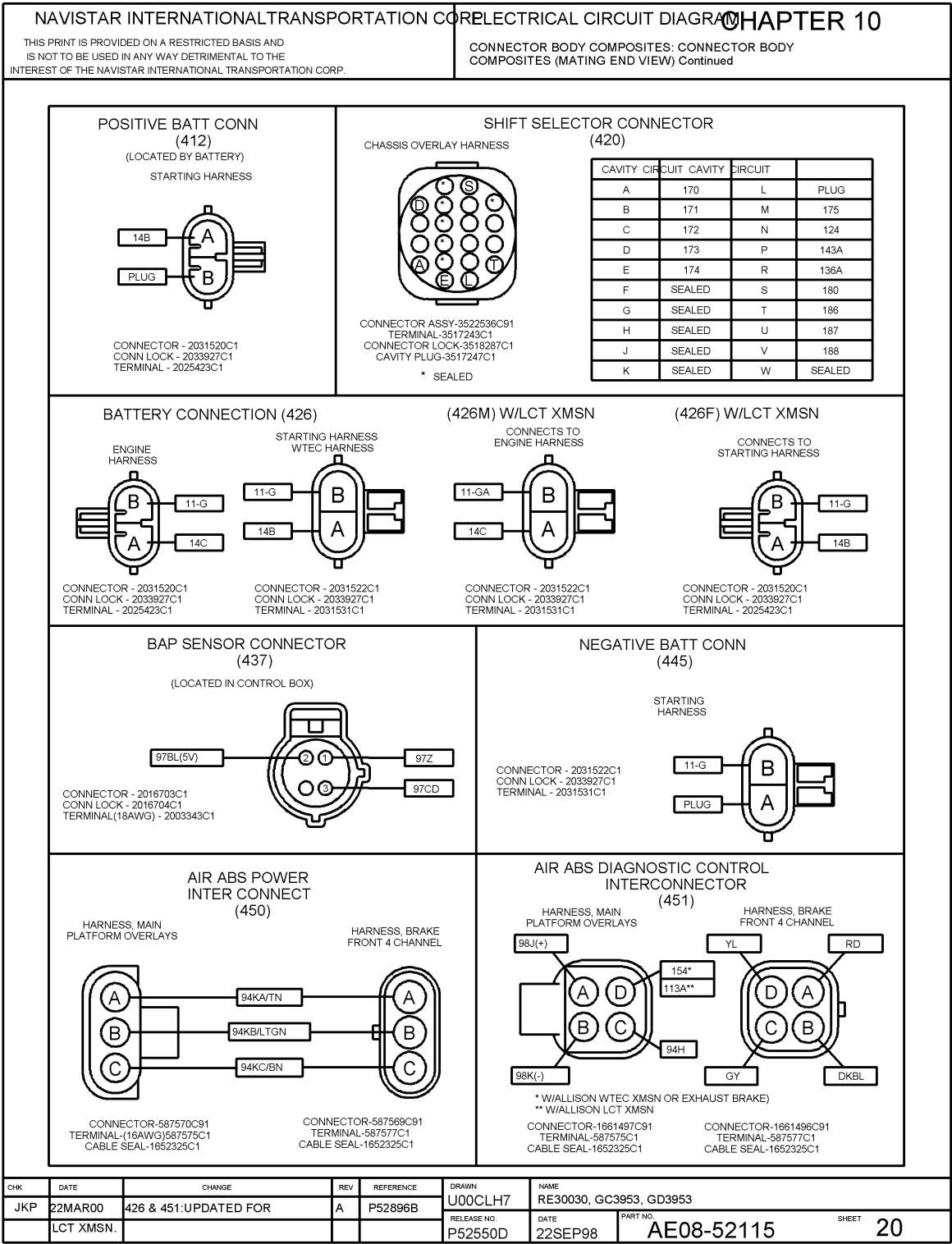


Figure 161 Connector Composites (385), (387M), (389M), (391), (392), (396), (400), (401), (403)

Connector Composites (412), (420), (426, 426M, 426F), (437), (445), (450), (451)



Connector Composites (458), (463), (465), (466), (499), (500), (523)

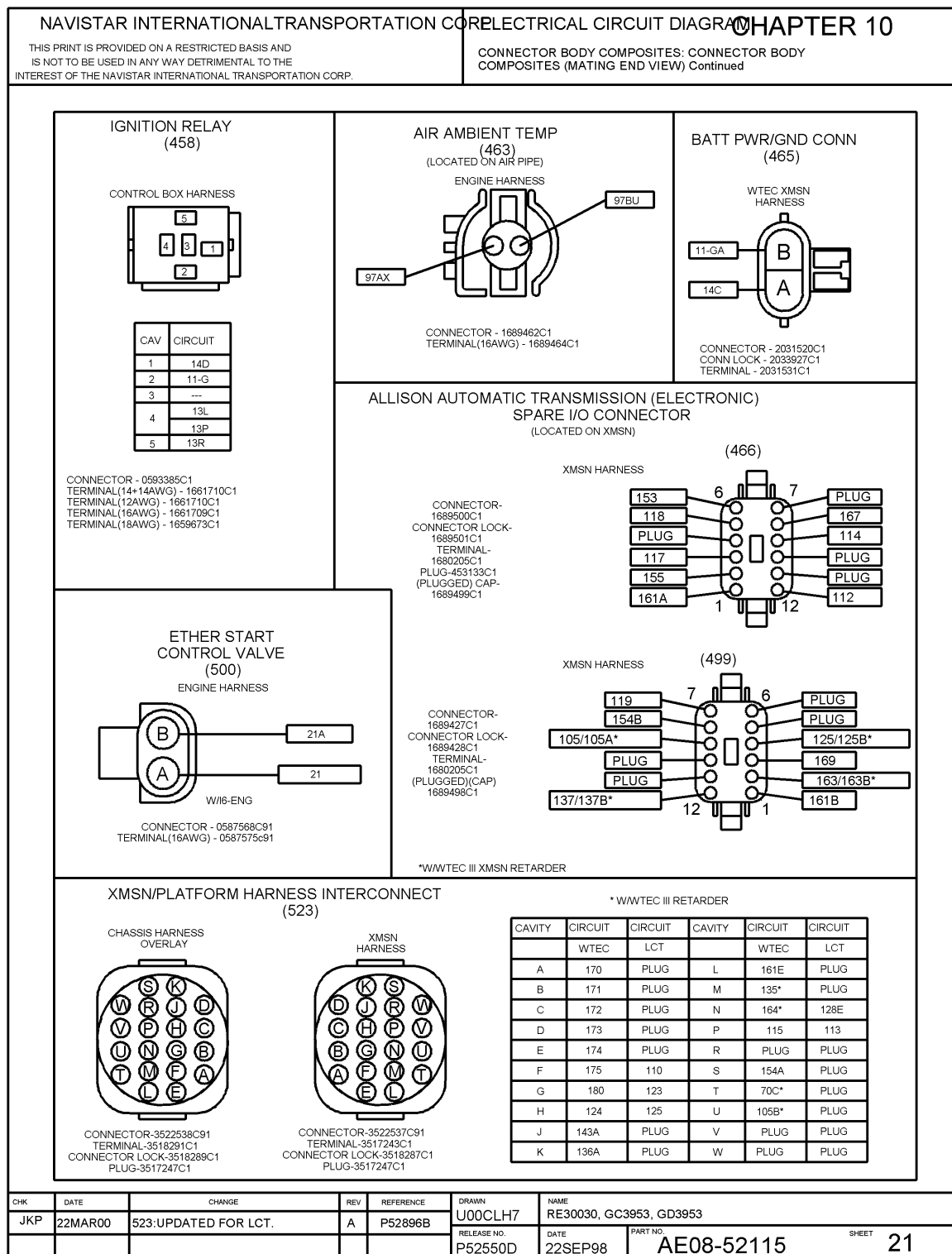


Figure 163 Connector Composites (458), (463), (465), (466), (499), (500), (523)

Connector Composites (569), (571), (571A), (572), (572A), (574), (575), (615)

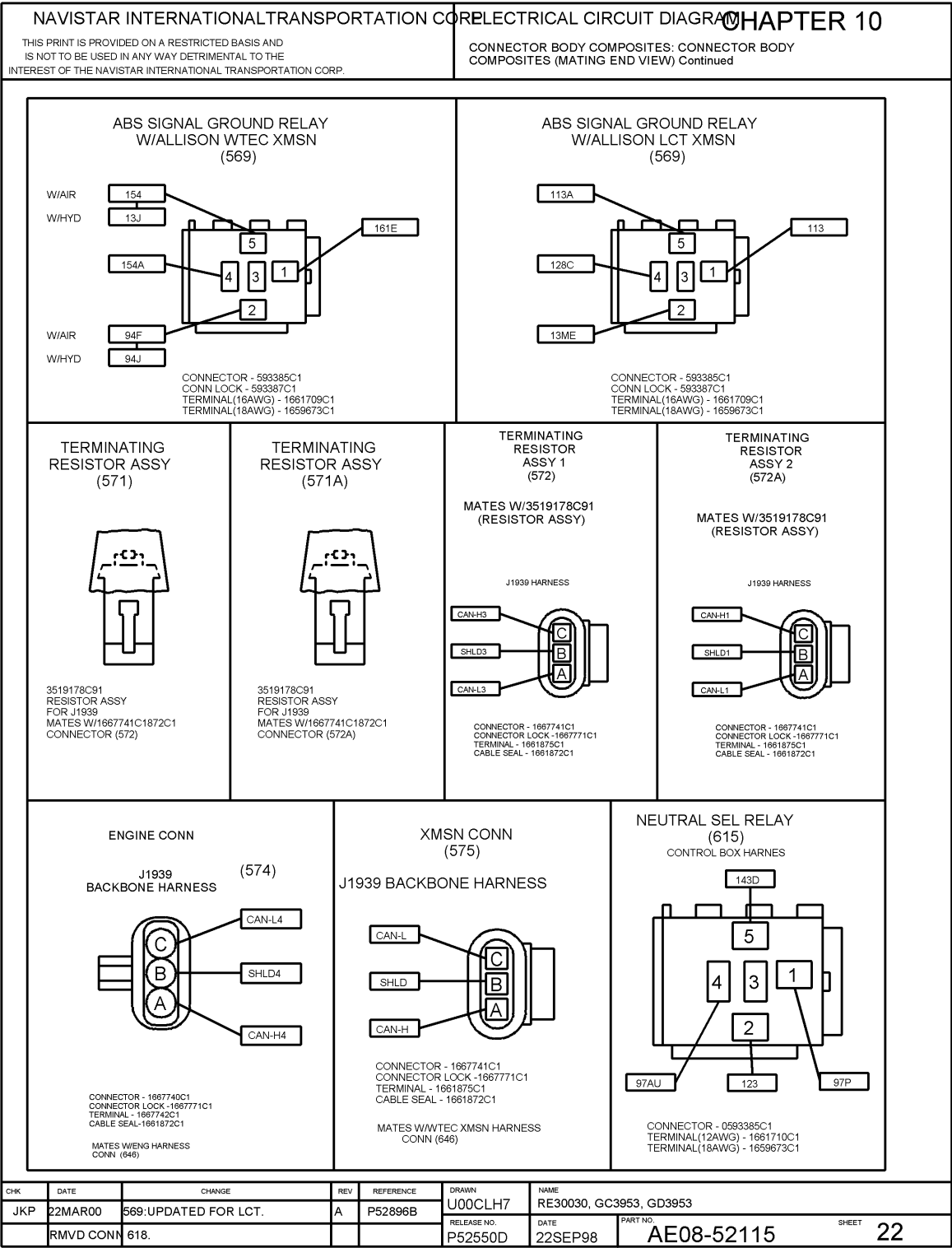


Figure 164 Connector Composites (569), (571), (571A), (572), (572A), (574), (575), (615)

Connector Composites (632), (633), (634)

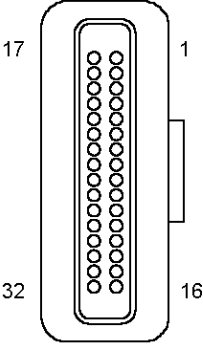
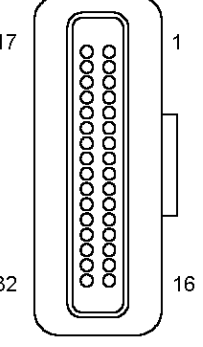
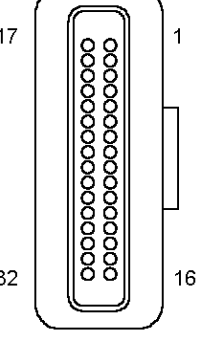
NAVISTAR INTERNATIONAL TRANSPORTATION CORP.				ELECTRICAL CIRCUIT DIAGRAM CHAPTER 10																																																																							
THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE NAVISTAR INTERNATIONAL TRANSPORTATION CORP.				CONNECTOR BODY COMPOSITES: CONNECTOR BODY COMPOSITES (MATING END VIEW) Continued																																																																							
 TRANSMISSION ECU "V" (632) CONNECTOR ASSY (GRAY)-3517239C1* RETAINER (CLR)-3517240C1 CONNECTOR-3517244C1 SEAL-3517245C1 CONN (POSITION) LOCK-3517246C1 PLUG-3517247C1 GRAY STRAIN RELIEF.* <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"><thead><tr><th>CAVITY</th><th>CIRCUIT</th><th>CAVITY</th><th>CIRCUIT</th></tr></thead><tbody><tr><td>1</td><td>136</td><td>17</td><td>143</td></tr><tr><td>2</td><td>114</td><td>18</td><td>125</td></tr><tr><td>3</td><td>PLUG</td><td>19</td><td>105</td></tr><tr><td>4</td><td>113</td><td>20</td><td>PLUG</td></tr><tr><td>5</td><td>167</td><td>21</td><td>PLUG</td></tr><tr><td>6</td><td>123</td><td>22</td><td>112</td></tr><tr><td>7</td><td>PLUG</td><td>23</td><td>PLUG</td></tr><tr><td>8</td><td>PLUG</td><td>24</td><td>PLUG</td></tr><tr><td>9</td><td>PLUG</td><td>25</td><td>PLUG</td></tr><tr><td>10</td><td>PLUG</td><td>26</td><td>PLUG</td></tr><tr><td>11</td><td>155</td><td>27</td><td>154</td></tr><tr><td>12</td><td>153</td><td>28</td><td>PLUG</td></tr><tr><td>13</td><td>118</td><td>29</td><td>137</td></tr><tr><td>14</td><td>PLUG</td><td>30</td><td>117</td></tr><tr><td>15</td><td>PLUG</td><td>31</td><td>161</td></tr><tr><td>16</td><td>136B</td><td>31</td><td>143B</td></tr></tbody></table>								CAVITY	CIRCUIT	CAVITY	CIRCUIT	1	136	17	143	2	114	18	125	3	PLUG	19	105	4	113	20	PLUG	5	167	21	PLUG	6	123	22	112	7	PLUG	23	PLUG	8	PLUG	24	PLUG	9	PLUG	25	PLUG	10	PLUG	26	PLUG	11	155	27	154	12	153	28	PLUG	13	118	29	137	14	PLUG	30	117	15	PLUG	31	161	16	136B	31	143B
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Figure 165 Connector Composites (632), (633), (634)

Connector Composites (635), (636), (637), (639), (640)

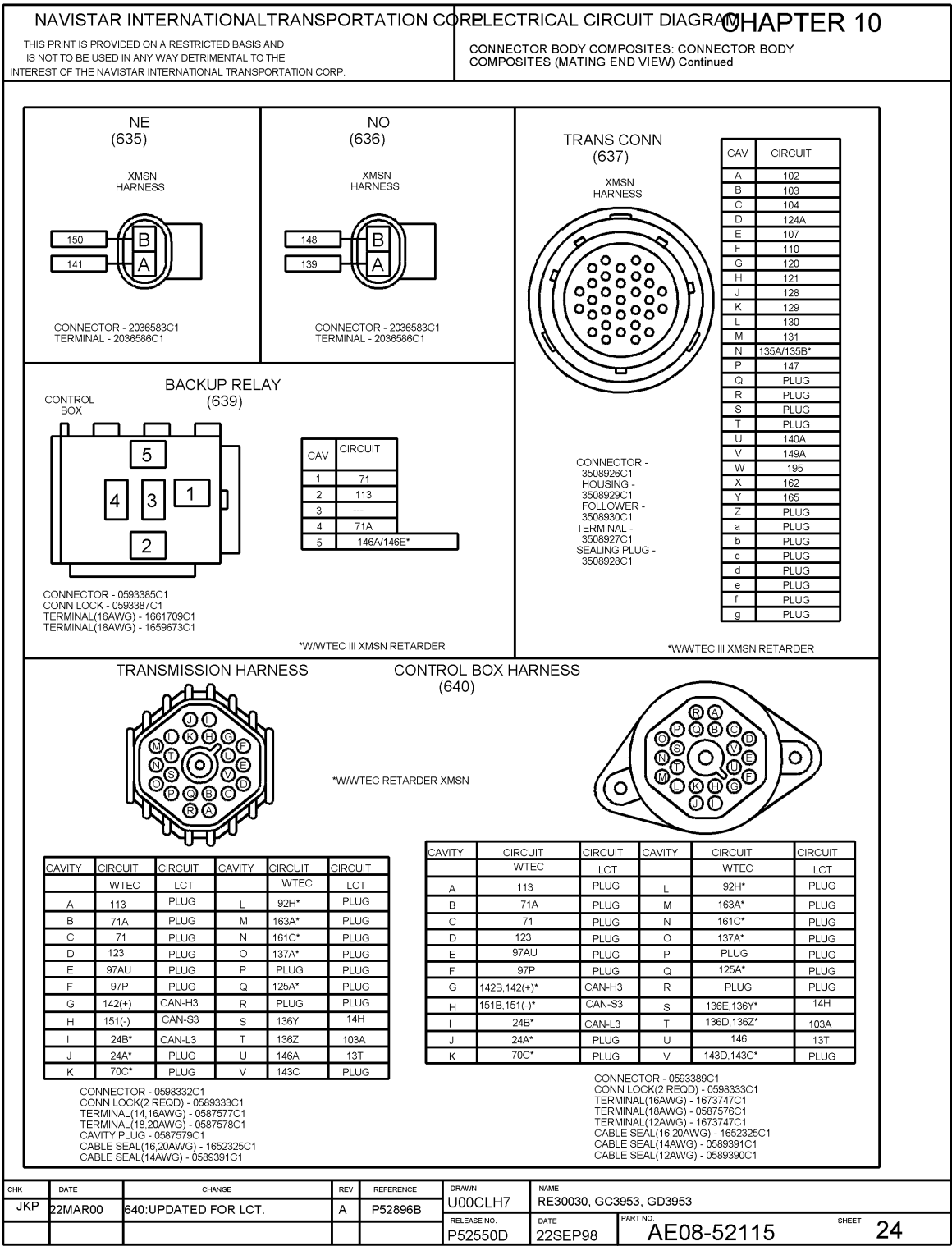


Figure 166 Connector Composites (635), (636), (637), (639), (640)

Connector Composites (643), (644/644M), (646), (647), (665), (763), (832)

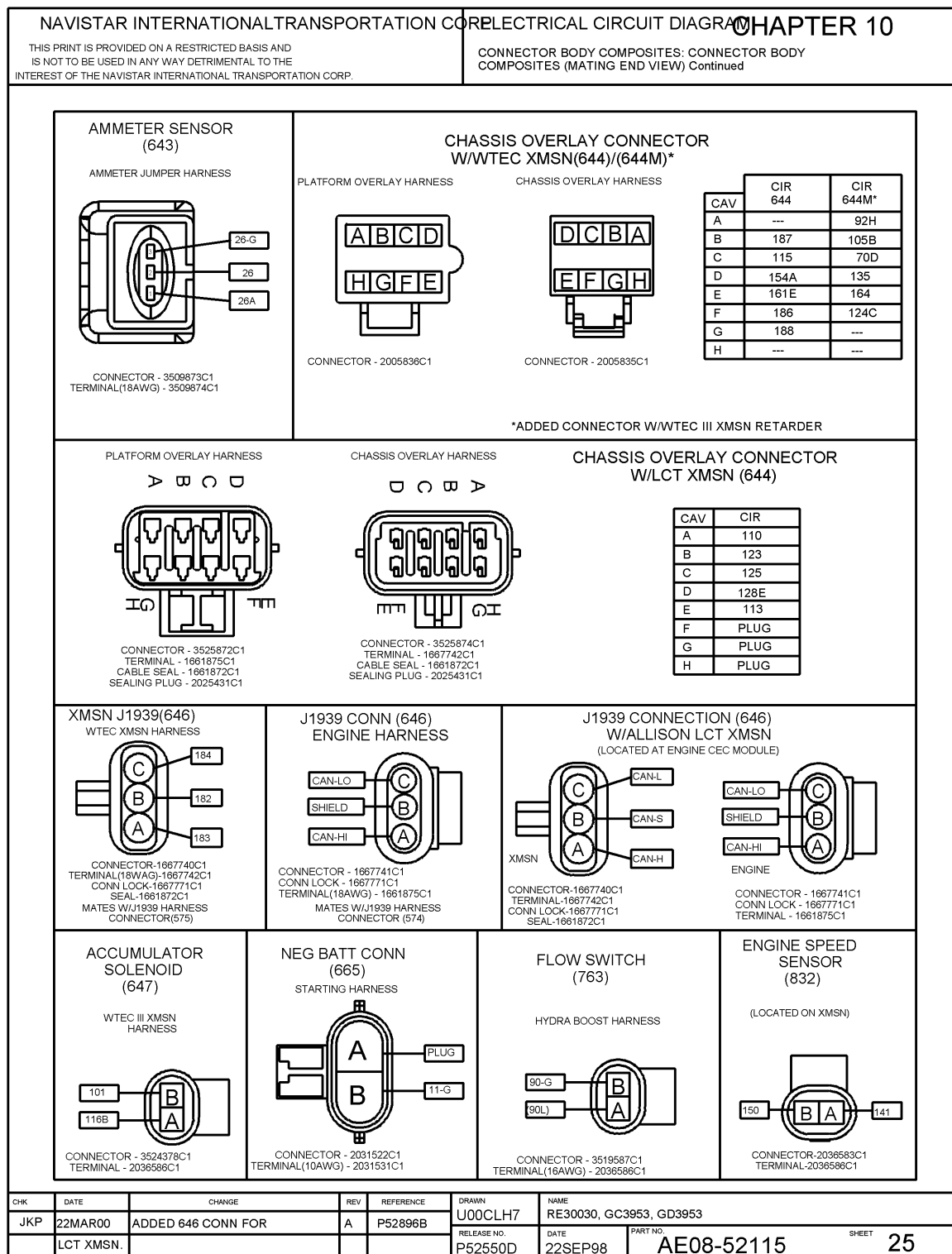
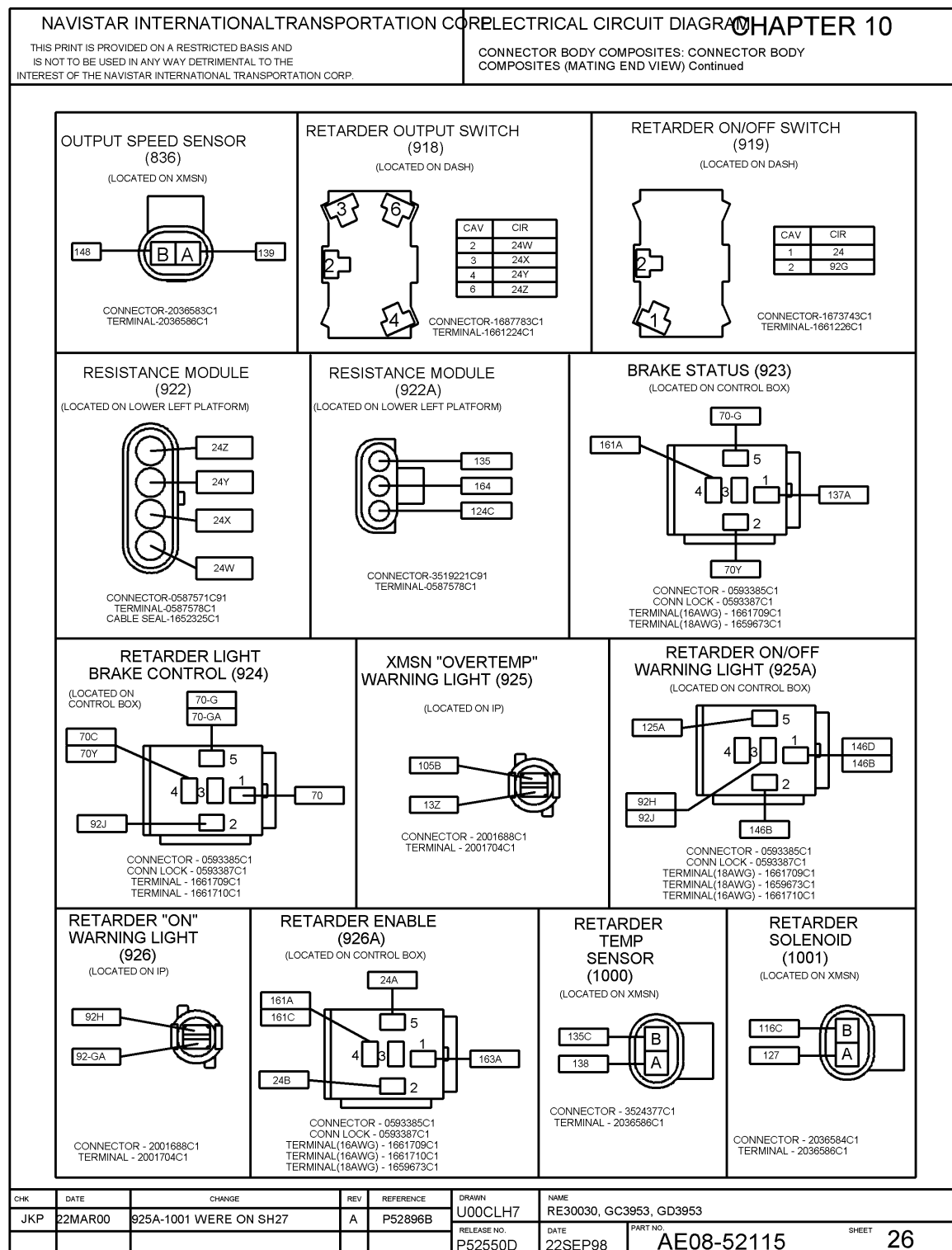


Figure 167 Connector Composites (643), (644/644M), (646), (647), (665), (763), (832)

Connector Composites (836), (918), (919), (922), (922A), (923), (924), (925), (925A), (926), (926A), (1000), (1001)

Figure 168 Connector Composites (836), (918), (919), (922), (922A), (923), (924), (925), (925A), (926), (926A), (1000), (1001)

Connector Composites (1133), (3024), (3025), (3026), (3027), (3028), (3029), (3030)

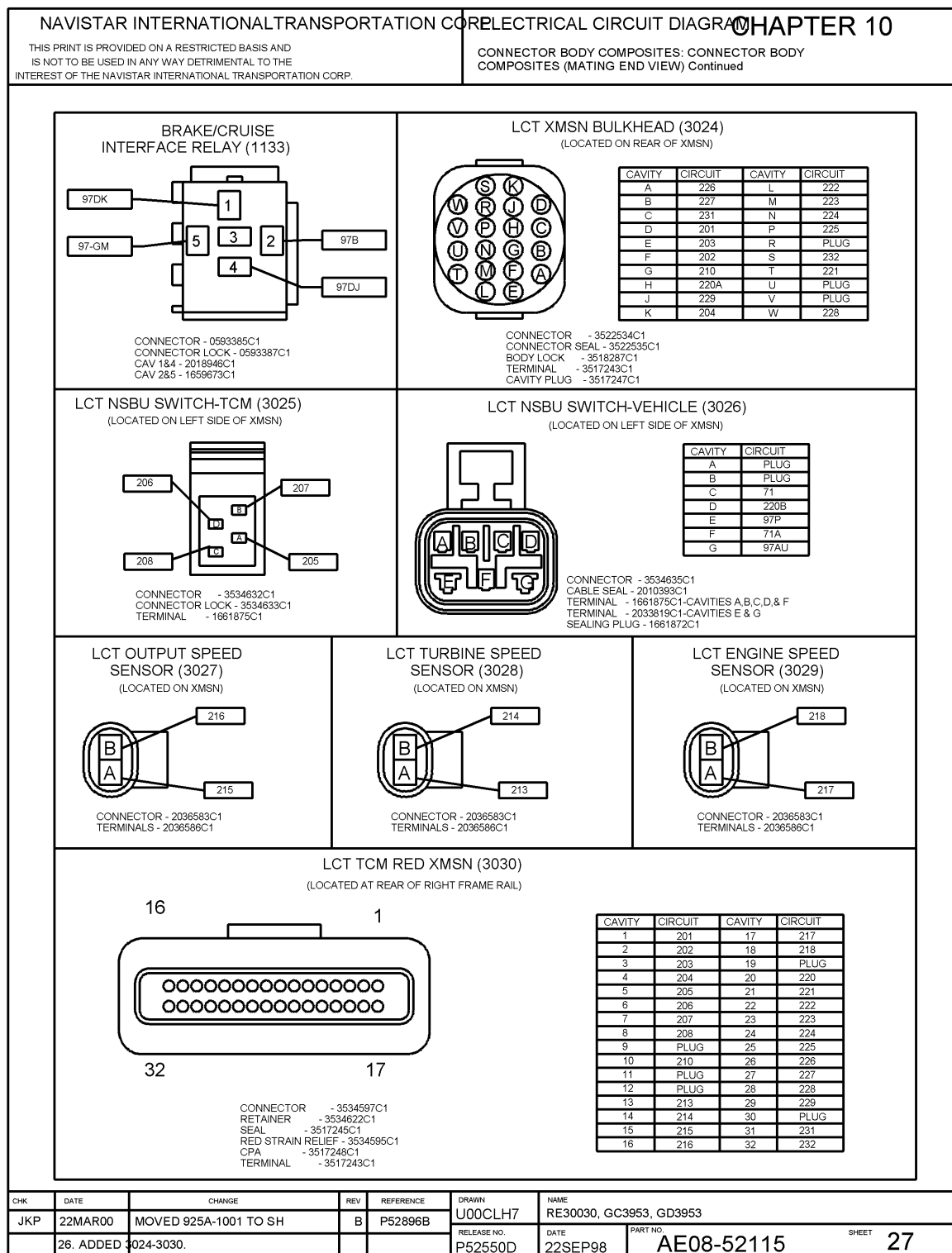
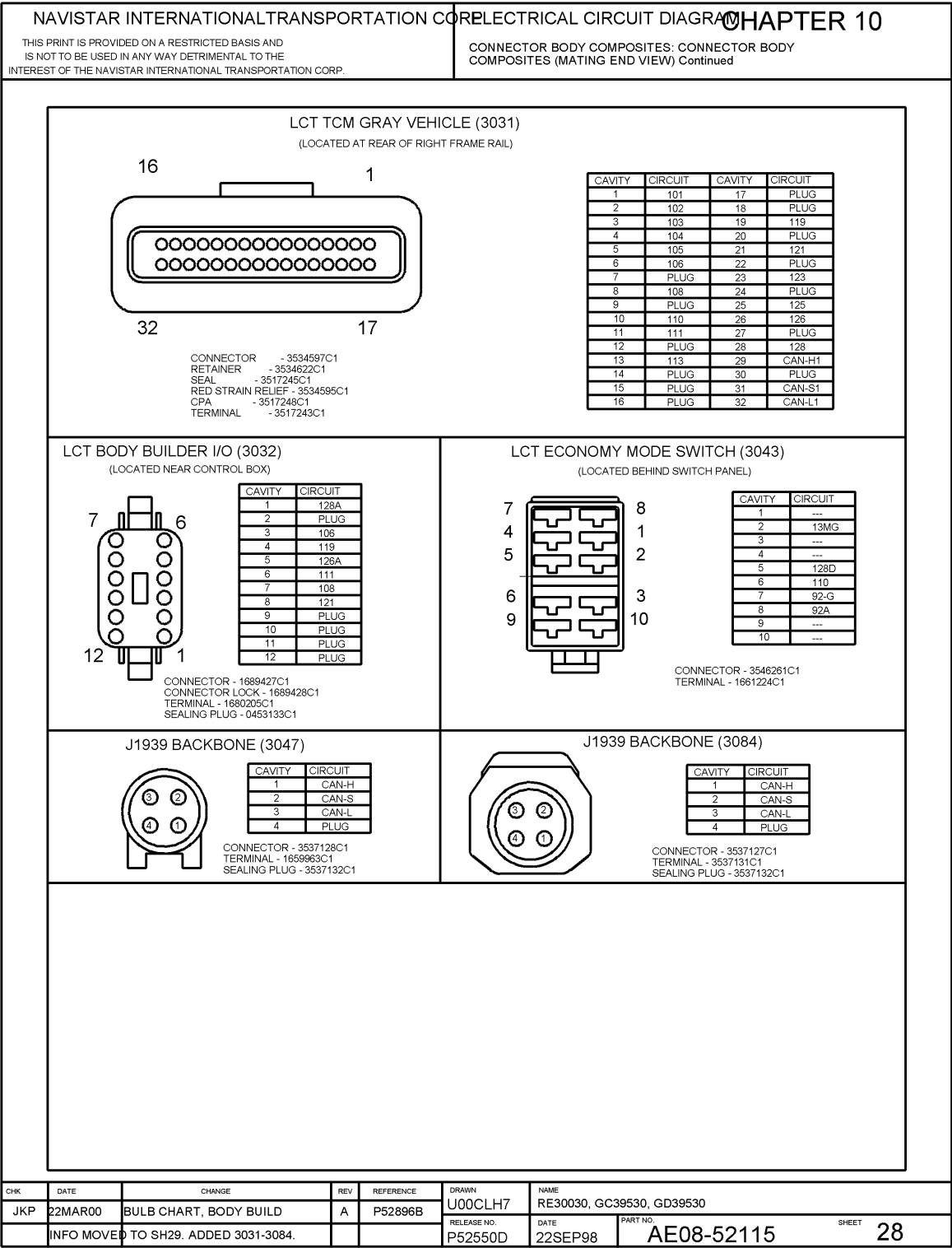


Figure 169 Connector Composites (1133), (3024), (3025), (3026), (3027), (3028), (3029), (3030)

Connector Composites (3031), (3032), (3043), (3047), (3084)



Lamp Bulb Chart and Body Builder Information

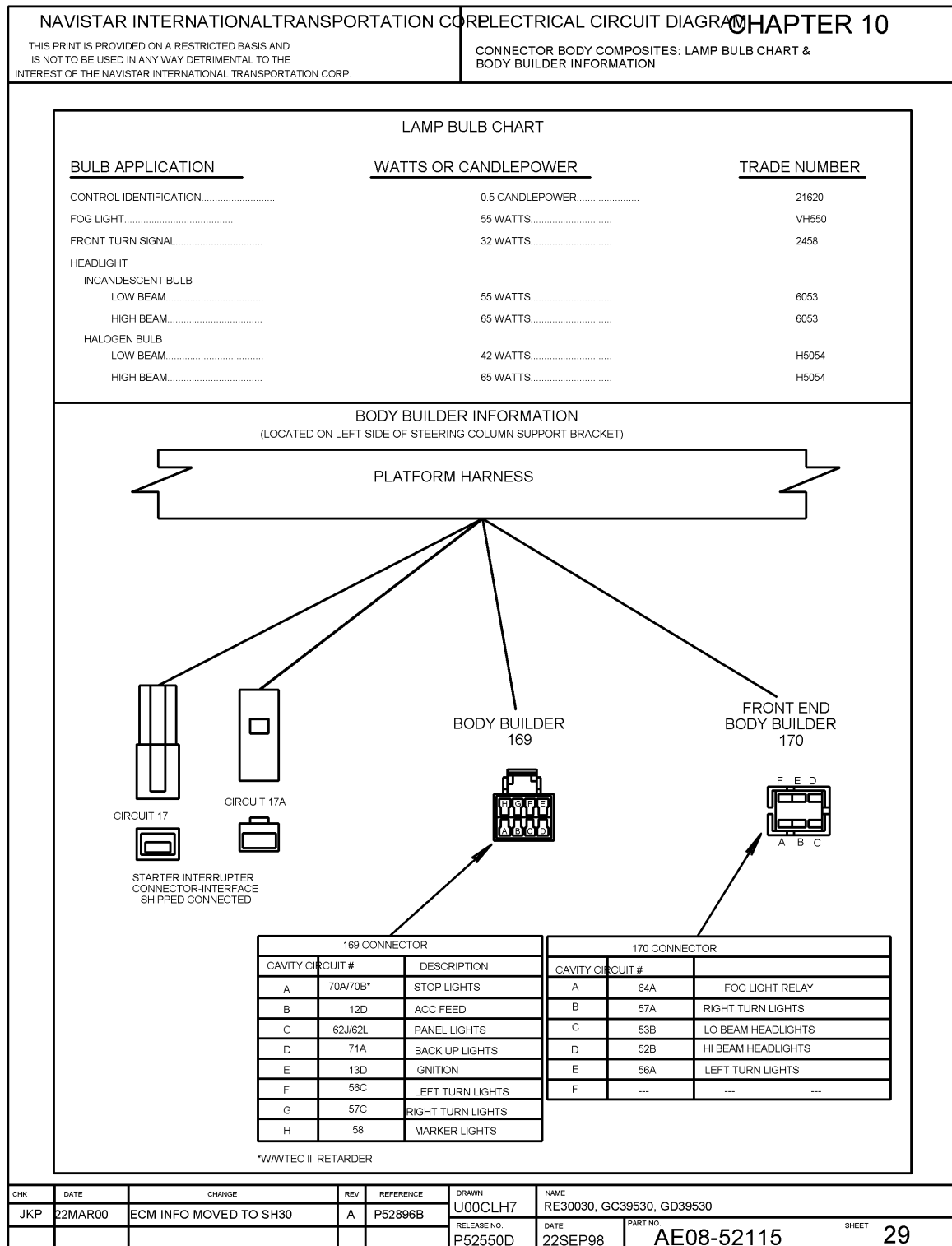


Figure 171 Lamp Bulb Chart and Body Builder Information

International System Acronyms and Descriptions

NAVISTAR INTERNATIONAL TRANSPORTATION CORPORATION

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CONNECTOR BODY COMPOSITES: NAVISTAR SYSTEM ACRONYMS AND DESCRIPTIONS

CHAPTER 10

ENGINE CONTROL MODULE (379)					
ECM PIN #	TERM	DESCRIPTION	ECM PIN #	TERM	DESCRIPTION
12	AAT	AMBIENT AIR TEMPERATURE SENSOR	27	IVS	IDLE VALIDATION SWITCH
33	ACD	A/C DEMAND	54	OWL	OIL/WATER WARNING LIGHT
8	APS	ACCELERATOR POSITION SENSOR	25	PWR RLY	CEC MAIN POWER RELAY SIGNAL
16	ATA(+)	J1708 DATA LINK (+)	31	RAS	RESUME/ACCELERATE
17	ATA(-)	J1708 DATA LINK (-)	37	RPRF	PRESET SPEED
29	BAP	BAROMETRIC AIR PRESSURE SENSOR	30	RPS	REMOTE ACCELERATOR POS. SENS. SIG.
43	BNO1	BRAKE STATUS #1	6	RPS_RTN	REMOTE ACCELERATOR POS. SENS. RTN.
44	BNO2	BRAKE STATUS #2	36	RVAR	VARIABLE SPEED SWITCH
18	CAN SHLD	J1939 DATA LINK SHIELD	32	SCS	SET/COAST
19	CAN(+)	J1939 DATA LINK (+)	45	SIL	SERVICE INTERVAL LIGHT
20	CAN(-)	J1939 DATA LINK (-)	34	STI	SELF TEST INPUT
15	CBE_SEL1	RETARDER/EXHAUST BRAKE REQUEST	48	SUL	SHIFT UP LIGHT
10	CLS	COOLANT LEVEL SENSOR	59	TACA	TACHOMETER A
35	COD	CRUISE ON/OFF	60	TACB	TACHOMETER B
21	DC (+)	POWER	38	TCSS	TORQUE CURVE SELECTION INPUT
22	DC (+)	POWER	28	TSA	TWO SPEED AXLE
1	DC (-)	GROUND	3	VBREF(5V)	ACCELERATOR SENSOR SUPPLY
2	DC (-)	GROUND	11	VBREF GND	ACCELERATOR SENSOR GROUND
26	DDS	DRIVELINE DISENGAGED INPUT	5	VCREF(5V)	REMOTE ACCELERATOR SENS. SUPPLY
42	DPS	GROUND	7	VCREF GND	REMOTE ACCELERATOR SENS. GROUND
46	ECI	ENGINE CRANK INHIBIT	24	VIGN	IGNITION FEED
56	EDL	TRANSMISSION KICKDOWN	47	VRE	RETARDER/EXHAUST BRAKE ENABLE
53	GPL	GLOW PLUG LIGHT	39	VSS(+)	VEHICLE SPEED SENSOR (+)
4	HGE	HYDRAULIC PRESSURE GOVERNER ENABLE	40	VSS(-)	VEHICLE SPEED SENSOR (-)
49	HMI	HYDRAULIC PRESS. GOVERNOR IND. LT.	58	VSSCALA	SPEEDOMETER SIGNAL A
13	HPS	HYDRAULIC PRESSURE SENSOR	57	VSSCALB	SPEEDOMETER SIGNAL B
41	HSO(+)	POWER	55	WARN	ENGINE WARNING LIGHT
23	HSO(-)	GROUND			

CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME	PART NO.	SHEET
					U00KDF1	RE30030, GC39530, GD39530		
					RELEASE NO.	DATE		
					P52896B	08MAR00	AE08-52115	30

Figure 172 International System Acronyms and Descriptions