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1. INSTRUCTIONS AND CHARTS (CHAPTER 1)

1.1. CIRCUIT IDENTIFICATION CHART, P. 1

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.		NAVISTAR CIRCUIT NUMBER IDENTIFICATION & COLOR			
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			
6		42	FRONT AXLE - GRAY		
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	DATE	SHEET NO.	SHEET
					RROEPKE	INSTRUCTIONS AND CHARTS FOR ALL MODELS	29JUL98	AE08-52011	1
					P52600M				

Figure 1 Circuit Identification Chart, page 1

**5000i, 9200i, 9400i and 9900i Chassis Built November 4, 2002 and After —
ELECTRICAL CIRCUIT DIAGRAMS**

1.2. CIRCUIT IDENTIFICATION CHART, P. 2

INTERNATIONAL TRUCK AND ENGINE CORPORATION		ELECTRICAL CIRCUIT DIAGRAM		CHAPTER 1		
THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF INTERNATIONAL TRUCK AND ENGINE CORPORATION.		NAVISTAR CIRCUIT NUMBER IDENTIFICATION & COLOR				
CIRCUIT NUMBER	DESCRIPTION - COLOR	CIRCUIT NUMBER	DESCRIPTION - COLOR			
73	COLLISION AVOIDANCE SYSTEM - LIGHT BLUE	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	SEAT BELTS - LIGHT GREEN	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					
<p>* NOTE: NOT ALL CIRCUITS MAY BE USED. COLORS ABOVE ARE NEW STD COLORS FOR MAJOR HARNESSSES.</p>						
CHK	DATE	CHANGE	REV	REFERENCE	DRAWN	NAME
JPM	0DEC01	GSC2 ADDED CIR 73 DESC	A	P53583S	RROEPKE	INSTRUCTIONS AND CHARTS FOR ALL MODELS
JKP	MAR02	ADDED SEAT BELTS.	B	S5093F	P52600M	DATE 29JUL98 PART NO. AE08-52011 SHEET 02

Figure 2 Circuit Identification Chart, page 2

1.3. CIRCUIT DIAGRAM INSTRUCTIONS, P. 3


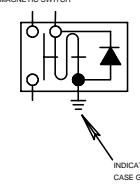
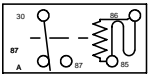

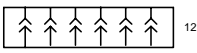
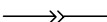
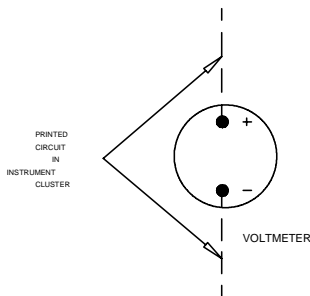
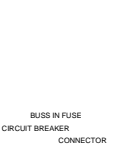
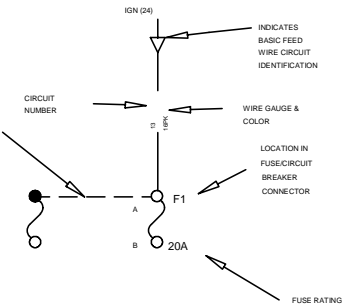
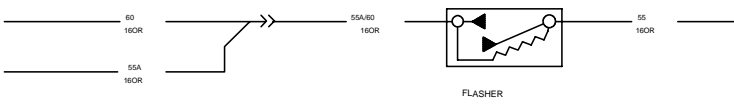
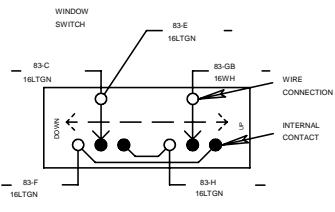
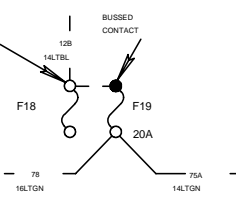
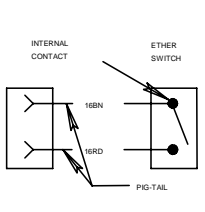
<p>NAVISTAR INTERNATIONAL TRANSPORTATION CORP.</p> <p>THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE NAVISTAR INTERNATIONAL TRANSPORTATION CORP.</p>		<p>ELECTRICAL CIRCUIT DIAGRAM CHAPTER 1</p> <p>INSTRUCTIONS</p>						
<p>A - SWITCH AND RELAY POSITIONS AS SHOWN ON CIRCUIT DIAGRAMS INDICATE NORMAL POSITION WITH IGNITION OFF UNLESS OTHERWISE NOTED.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>SWITCH-MANUAL</p>  </div> <div style="text-align: center;"> <p>MAGNETIC SWITCH</p>  </div> </div> <div style="text-align: center; margin-top: 10px;">  <p>RELAY-SUPPRESSED</p> </div>		<p>B - MULTIPLE CONNECTORS ARE DISPLAYED ON SCHEMATIC AS SHOWN. REFER TO CONNECTOR COMPOSITE WITH APPLICABLE NUMBER FOR MORE COMPLETE INFORMATION.</p> <div style="text-align: center; margin-top: 10px;">  <p>AND/OR</p>  </div> <p style="text-align: center; margin-top: 10px;">SINGLE IN-LINE CONNECTORS DISPLAYED AS SHOWN WITHOUT CONNECTOR NUMBER.</p> <div style="text-align: center; margin-top: 10px;">  </div>						
<p>C - PHANTOM LINES INDICATE PRINTED CIRCUITS OR BUSSED CIRCUITS. THESE CIRCUITS EXIST IN THE INSTRUMENT CLUSTERS AND FUSE/CIRCUIT BREAKER CONNECTORS.</p> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;">  <p>PRINTED CIRCUIT IN INSTRUMENT CLUSTER</p> <p>VOLTMETER</p> </div> <div style="text-align: center;">  <p>BUSSED IN FUSE CIRCUIT BREAKER CONNECTOR</p> </div> <div style="text-align: center;">  <p>INDICATES BASIC FEED WIRE CIRCUIT IDENTIFICATION</p> <p>IGN (24)</p> <p>INDICATES BASIC FEED WIRE CIRCUIT IDENTIFICATION</p> <p>WIRE GAUGE & COLOR</p> <p>LOCATION IN FUSE CIRCUIT BREAKER CONNECTOR</p> <p>FUSE RATING</p> </div> </div>								
<p>D - MULTIPLE CIRCUIT NUMBERS ON A LINE INDICATE ONE WIRE DISTRIBUTING CURRENT TO TWO CIRCUITS.</p> <div style="text-align: center; margin-top: 10px;">  <p>FLASHER</p> </div>								
<p>E - SWITCHES, RELAYS & COMPONENTS INDICATE EXTERNAL WIRE CONNECTIONS AND/OR INTERNAL CONNECTIONS OR CONTACTS.</p> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;">  <p>WINDOW SWITCH</p> <p>WIRE CONNECTION</p> <p>INTERNAL CONTACT</p> </div> <div style="text-align: center;">  <p>WIRE CONNECTION</p> <p>BUSSED CONTACT</p> </div> <div style="text-align: center;">  <p>INTERNAL CONTACT</p> <p>ETHER SWITCH</p> <p>PIG-TAIL</p> </div> </div>								
CHK	DATE	CHANGE	REV	REFERENCE	DRAWN RROEPKE	NAME INSTRUCTIONS AND CHARTS FOR ALL MODELS	PART NO. AE08-52011	SHEET 3
					RELEASE NO. P52600M	DATE 29JUL98		

Figure 3 Circuit Diagram Instructions, page 3

1.4. CIRCUIT DIAGRAM INSTRUCTIONS, P. 4

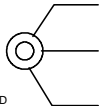


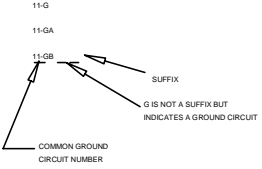
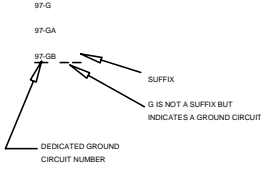
<p>NAVISTAR INTERNATIONAL TRANSPORTATION CORP.</p> <p>THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE NAVISTAR INTERNATIONAL TRANSPORTATION CORP.</p>	<p>ELECTRICAL CIRCUIT DIAGRAM CHAPTER 1</p> <p>INSTRUCTIONS</p>																																																																																																																																										
<p>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.</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <p>STUD OR ADAPTER</p> </div> <div style="text-align: center;">  <p>BUS ADAPTER</p> </div> <div style="text-align: center;">  <p>GROUND JUNCTION</p> </div> </div> <p>THIS VEHICLE USES BUSSED CONNECTORS AND ARE REFERRED TO AS ADAPTERS - GROUND, FEED, IGNITION, ACCESSORY OR BATTERY.</p>																																																																																																																																											
<p>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).</p> <p style="text-align: center; font-size: small;">NOTE: FOR CIRCUIT DESCRIPTION OTHER THAN GROUNDS, NEITHER THE LETTER G OR THE COLOR WHITE WILL BE USED.</p> <p style="text-align: center;">GROUND CIRCUITS ARE DESCRIBED THUS:</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div>																																																																																																																																											
<p>H - ABBREVIATIONS: COLOR, NOUN AND ENGINE</p> <table style="width:100%; border-collapse: collapse;"> <tr> <th style="text-align: left; border-bottom: 1px solid black;">COLOR ABBREVIATION</th> <th style="text-align: left; border-bottom: 1px solid black;">NOUN ABBREVIATION</th> </tr> <tr> <td style="vertical-align: top;"> <table style="width:100%; border-collapse: collapse;"> <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>SL - 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> </td> <td style="vertical-align: top;"> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="vertical-align: top;"> <table style="width:100%; 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Figure 4 Circuit Diagram Instructions, page 4

1.5. SCHEMATIC SYMBOLS, P. 5

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.				SCHEMATIC SYMBOL CHART			
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	
		CIRCUIT BREAKER				SPEAKER-SOUND SYSTEM	
		DIODE				FLASHER-TURN SIGNAL HAZARD	
		LIGHT EMITTING DIODE (LED)				MAGNETIC SWITCH	
		FUSIBLE LINK				LIGHT-SINGLE FILAMENT	
		RESISTOR				LIGHT-DOUBLE FILAMENT	
		SWITCH CONTACT, NORMALLY OPEN				SENDER-OIL, WATER, FUEL, TEMPERATURE	
		SWITCH CONTACT, NORMALLY CLOSED					
		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
					RROEPKE	INSTRUCTIONS AND CHARTS FOR ALL MODELS
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					PART NO.	SHEET
					AE08-52011	5

Figure 5 Schematic Symbols

1.6. RELAY PINOUT, FUNCTION DATA & SEALED RELAY, P. 6

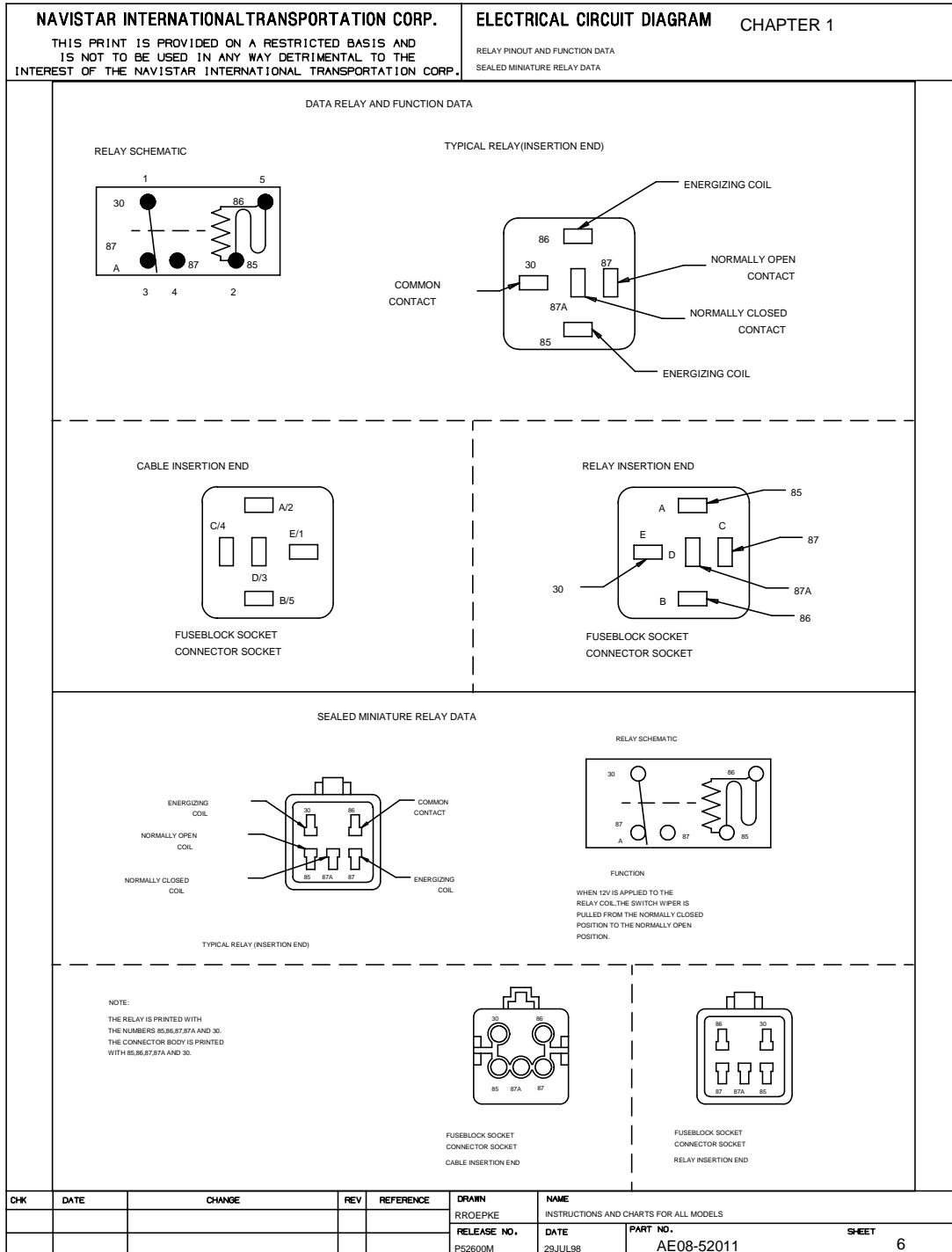


Figure 6 Relay Pinout, Function Data & Sealed Relay

1.7. LAMP BULB CHART, P. 7

INTERNATIONAL TRUCK AND ENGINE CORPORATION		ELECTRICAL CIRCUIT DIAGRAM CHAPTER 1	
THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF INTERNATIONAL TRUCK AND ENGINE CORPORATION.		LAMP BULB CHART	
BULB APPLICATION	WATTS OR CANDLEPOWER	TRADE NUMBER	
AIR RESTRICTION GAUGE.....	2 CANDLEPOWER.....	57	
BACK-UP LIGHTS.....	32 CANDLEPOWER.....	1156	
CIGAR LIGHTER.....	1 CANDLEPOWER.....	1455	
CLOCK - ANALOG.....	2 WATTS.....	VDO-600 802	
CLEARANCE/IDENTIFICATION LIGHTS - SMALL.....	2 CANDLEPOWER.....	194	
CLEARANCE/IDENTIFICATION LIGHTS - LARGE.....	4 CANDLEPOWER.....	904	
COURTESY LIGHT.....	21 CANDLEPOWER.....	1142	
DOME LIGHT.....	21 CANDLEPOWER.....	1142	
EXTERIOR MIRROR LIGHT.....	2 CANDLEPOWER.....	1895	
FOG LIGHT.....	100 WATTS.....	4921-1	
FRONT TURN SIGNAL			
9200/9400/9900.....	32/3 CANDLEPOWER.....	3157	
HEADLIGHTS			
9200/9400/9900 INCANDESCENT			
HIGH/LOW BEAMS.....	65/35 WATTS.....	6053	
HALOGEN (OPTIONAL)			
HIGH/LOW BEAM.....	65/35 WATTS.....	H5054	
HEATER AND AIR CONDITIONER CONTROLS.....	3 CANDLEPOWER.....	168	
HIGH BEAM INDICATOR.....	0.5 CANDLEPOWER.....	37	
INSTRUMENT CLUSTER			
ILLUMINATION LIGHT.....	1 CANDLEPOWER.....	161	
WARNING LIGHT.....	0.5 CANDLEPOWER.....	37	
READING LIGHT.....	15 CANDLEPOWER.....	1003	
SIDE TURN SIGNAL - 9200/9400/9900.....	32/3 CANDLEPOWER.....	3157	
SPEEDOMETER.....	1 CANDLEPOWER.....	161	
SPOTLIGHT.....	30 WATTS.....	4405	
STOP-TAIL-TURN SIGNAL.....	32/3 CANDLEPOWER.....	1157	
TACHOMETER.....	1 CANDLEPOWER.....	161	
TURN SIGNAL INDICATOR.....	0.5 CANDLEPOWER.....	37	
WORK LIGHT.....	35 WATTS.....	4411	
SLEEPER			
DOME LIGHT.....	15 WATTS.....	F15TB-CW	
LUGGAGE COMPARTMENT LIGHT.....	12 CANDLEPOWER.....	211-2	
READING LIGHT.....	12 CANDLEPOWER.....	912	
OVERHEAD CABINET LIGHT.....	12 CANDLEPOWER.....	211-2	
TV/VCR & MICROWAVE CABINET LIGHT.....	12 CANDLEPOWER.....	211-2	
CHK	DATE	CHANGE	REV REFERENCE DRAWN NAME
JKP	MAR02	ADDED & EDITED SLPR ITEMS	A 55093F RROEPKE INSTRUCTIONS AND CHARTS FOR ALL MODELS
			RELEASE NO. DATE PART NO. SHEET
			P52600M 29JUL98 AE08-52011 07

Figure 7 Lamp Bulb Chart

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

2.1. START FEED, P. 1

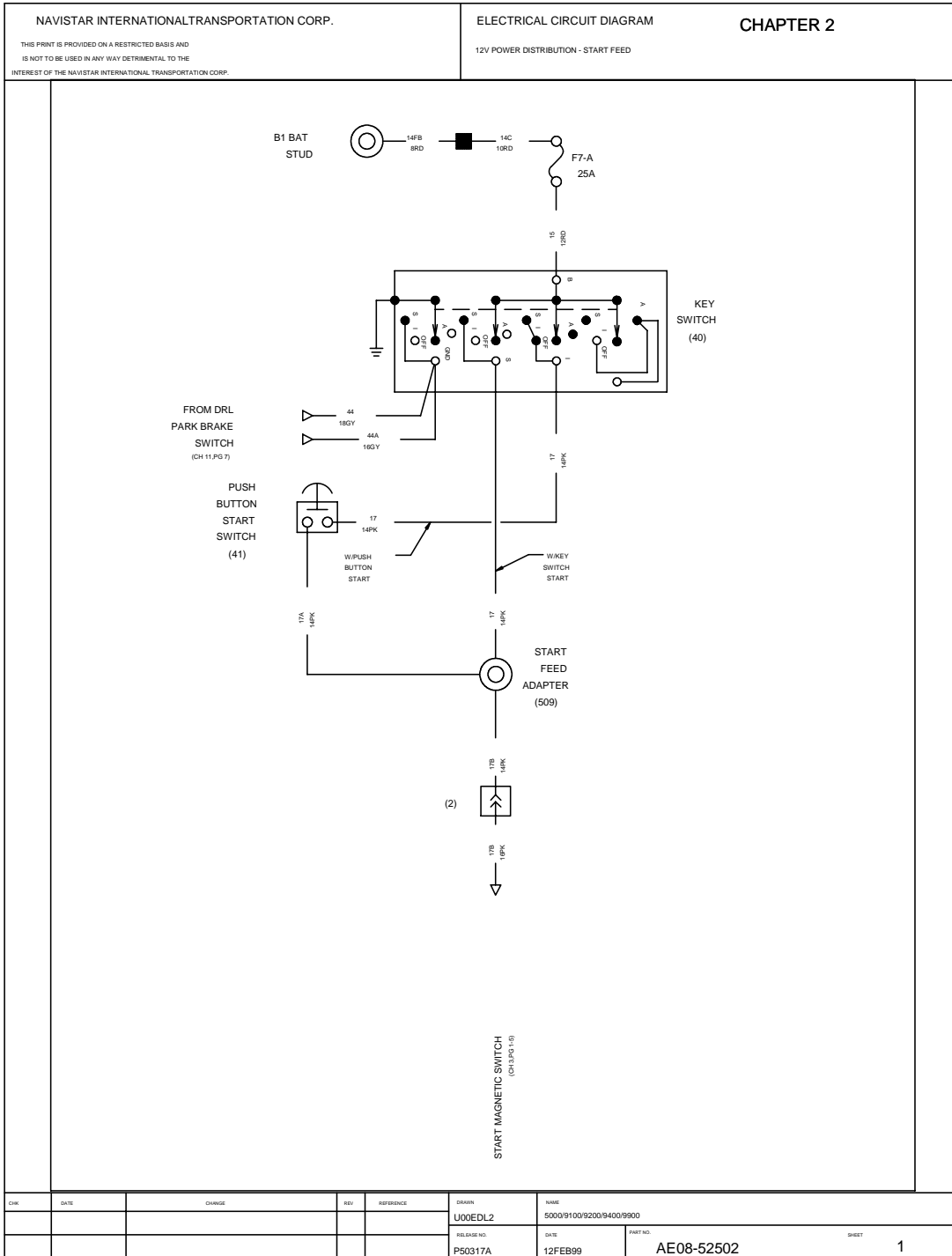


Figure 8 Start Feed

2.2. ACCESSORY, P. 2

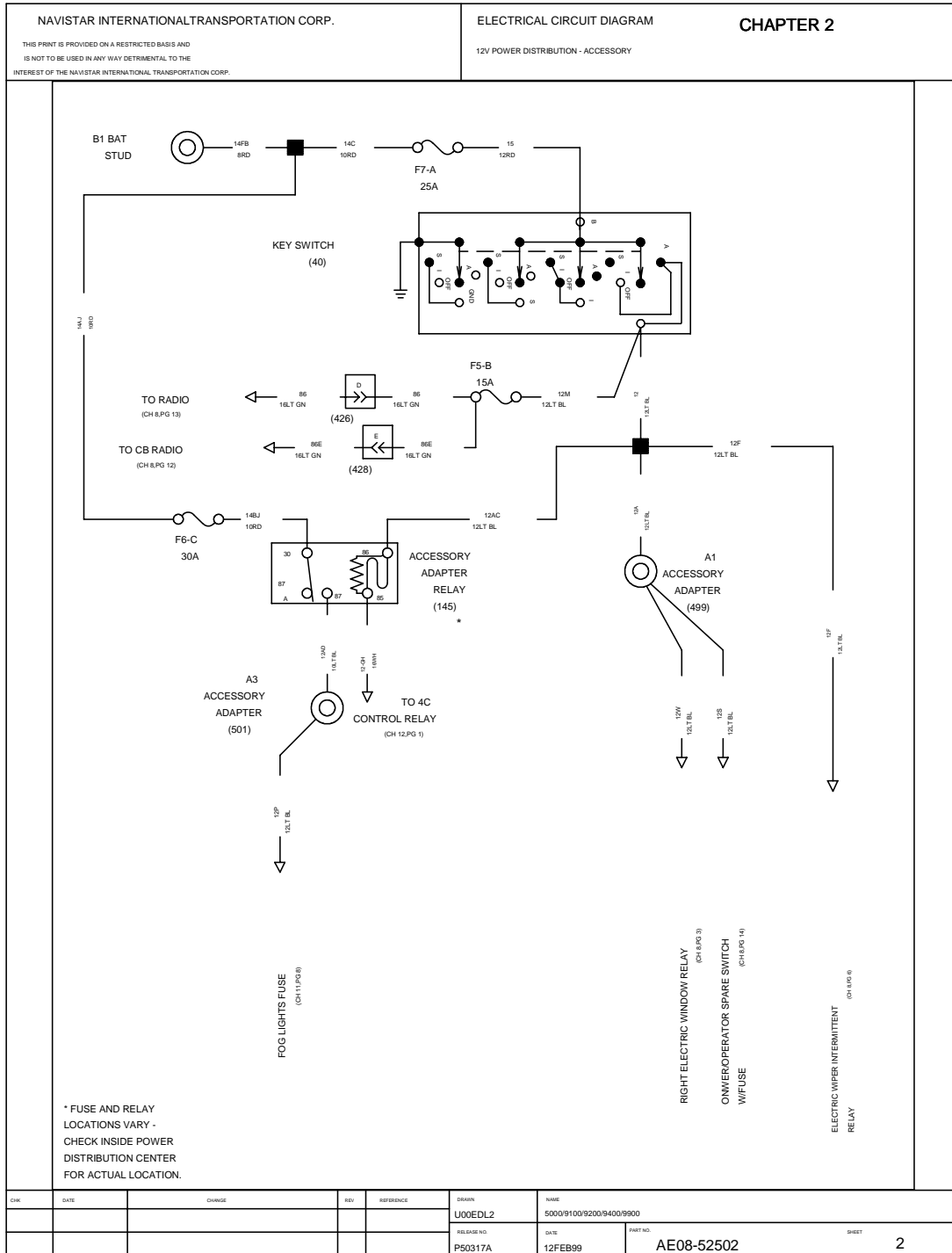


Figure 9 Accessory