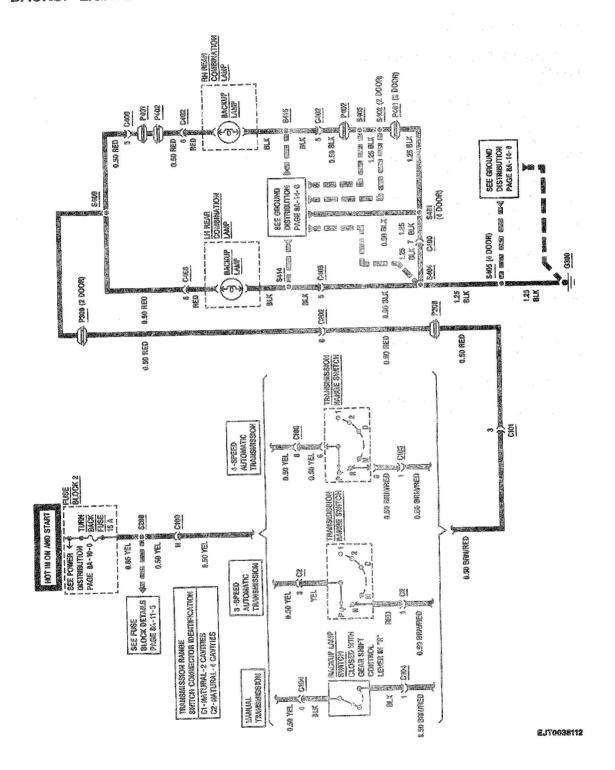
# BACKUP LIGHTS



Backup Lamp Switch (Manual Transmission)	COMPONENT	LOCATION	201-PG	FIG.	CONN
Page		. Mounted on top of Transmission			001111
Transmission Range Switch (Automatic Transmission)	F 400,000,000				
C2 (4 Cavities) (3-Speed Automatic Transmission)	Transmission Range Switch		. 06	A	
C2 (4 Cavities) (3-Speed Automatic Transmission)	(Automatic Transmission)	. RH side of Transmission	. 14	В	202-14A1
Main Harness to Engine Harness, on Bulkhead mounted to Bracket, left of Front Wiper Motor					
Main Harness to Engine Harness, on Bulkhead mounted to Bracket, left of Front Wiper Motor	C100 (16 Cavities)	. Main Harness to Engine Harness, on Bulkhead mounted to			202 01 4 4
C104 (6 Cavities) (Manual and 3-Speed Automatic Transmission)	C101 (16 Cavities)	Main Harness to Engine Harness, on Bulkhead mounted to			
Transmission) Engine Harness to Transmission Harness, RH Rear of Engine Compartment, under Intake Manifold 05 A 202-15B: C106 (10 Cavities) (4-Speed Automatic Transmission) Engine Harness to Transmission Harness, RH Rear Engine, under Intake Manifold 202-05A Main Harness to Floor Harness, LH I/P near G200 06 A 202-08A C401 (6 Cavities) (2-Door) Floor Harness to Rear Lamp Harness, behind LH Rear Wheelhousing 10 A 202-15B: C402 (6 Cavities) Rear Lamp Harness to RH Rear Combination Lamp Jumper Harness, behind LH Rear Wheelhousing 10 A 202-15B: C406 (6 Cavities) Floor Harness to LH Rear Combination Lamp Jumper Harness, behind LH Rear Wheelhousing 10 A 202-15B: C406 (6 Cavities) Floor Harness to LH Rear Combination Lamp Jumper Harness, behind LH Rear Wheelhousing 10 A 202-15B: C406 (6 Cavities) Floor Harness to LH Rear Combination Lamp Jumper Harness, behind LH Rear Wheelhousing 10 A 202-15B: C406 (6 Cavities) Floor Harness to LH Rear Combination Lamp Jumper Harness, behind LH Rear Wheelhousing 10 A 202-15B: C406 (6 Cavities) Floor Harness to LH Rear Combination Lamp 10 A 202-15B: C406 (6 Cavities) Floor Harness to LH Rear Combination Lamp 10 A 202-15B: C406 (6 Cavities) Floor Harness, near Fuse Block 2 A 202-15B: C406 (6 Cavities) Floor Harness, near Fuse Block 2 A 202-15B: C406 Floor Harness, near RH Rear Combination Lamp 2402 Rear Lamp Harness, near RH Rear Combination Lamp 2403 Rear Lamp Harness, near RH Rear Combination Lamp 2404 Floor Harness, near LH Rear Combination Lamp 2405 Rear Door Harness, near LH Rear Combination Lamp 2406 Floor Harness, near LH Rear Combination Lamp 2407 Floor Harness, near LH Rear Combination Lamp 2408 Floor Harness, near LH Rear Combination Lamp 2409 Floor Harness 1, near LH Rear Combination Lamp 2409 Floor Harness 1, near LH Rear Combination Lamp 2409 Floor Harness 1, near LH Rear Combination Lamp 2409 Floor Harness 1, near LH Rear Co		, see a see	04	Α	202-02A1
C106 (10 Cavities) (4-Speed Automatic Transmission)  Engine Harness to Transmission Harness, RH Rear Engine, under Intake Manifold		C Transfer Transfer Trainess, Ital Itali	05	٨	202 1502
under Intake Manifold 202-05A  C202 (22 Cavities) Main Harness to Floor Harness, LH I/P near G200 06 A 202-08A  C401 (6 Cavities) (2-Door) Floor Harness to Rear Lamp Harness, behind LH Rear Wheelhousing 10 A 202-15B3  C402 (6 Cavities) Rear Lamp Harness to RH Rear Combination Lamp Jumper Harness, behind RH Rear Wheelhousing 10 A 202-15B3  C406 (6 Cavities) Floor Harness to LH Rear Combination Lamp Jumper Harness, behind LH Rear Wheelhousing 10 A 202-15B3  P200 LH Engine Compartment on Bulkhead, near Brake Master Cylinder 04 A  P201 RH Rear Engine Compartment on Bulkhead, near Battery 01 A  P300 (2-Door) LH "A" Pillar, under I/P, behind LH Kick Panel 08 A  P401 Rear of Vehicle, right of LH Frame Rail 10 A  P402 Rear of Vehicle, left of RH Frame Rail 10 A  S208 Main Harness, near Fuse Block 2  S401 Rear Lamp Harness, near Fuse Block 2  S402 Rear Lamp Harness, near RH Rear Combination Lamp  S403 Rear Lamp Harness, near RH Rear Combination Lamp  S404 Floor Harness 1, near LH Rear Combination Lamp  S405 Rear Door Harness 1, near LH Rear Combination Lamp  S406 Rear Door Harness 1, near LH Rear Combination Lamp  S407 Rear Combination Lamp Jumper, near RH Rear Combination Lamp  S408 Rear Combination Lamp  S409 Floor Harness 1, near LH Rear Combination Lamp  S414 LH Rear Combination Lamp Jumper, near RH Rear Combination Lamp  S415 RH Rear Combination Lamp Jumper, near RH Rear			03	Α	202-1382
C202 (22 Cavities). Main Harness to Floor Harness, LH I/P near G200	Automatic Transmission)		•••••		202-05A1
C401 (6 Cavities) (2-Door)  Floor Harness to Rear Lamp Harness, behind LH Rear Wheelhousing  Rear Lamp Harness to RH Rear Combination Lamp Jumper Harness, behind RH Rear Wheelhousing  C406 (6 Cavities)  Floor Harness to LH Rear Combination Lamp Jumper Harness, behind LH Rear Wheelhousing  LH Engine Compartment on Bulkhead, near Brake Master Cylinder  Cylinder  Cylinder  RH Rear Engine Compartment on Bulkhead, near Battery  O4  A  P201  RH Rear Engine Compartment on Bulkhead, near Battery  O1  A  P300 (2-Door)  LH "A" Pillar, under I/P, behind LH Kick Panel  Rear of Vehicle, right of LH Frame Rail  O4  P402  Rear of Vehicle, left of RH Frame Rail  O4  Rear of Vehicle, left of RH Frame Rail  DA  S208  Main Harness, near Fuse Block 2  S401  Rear Lamp Harness, near Fuse Block 2  Rear Lamp Harness, near RH Rear Combination Lamp  S402  Rear Lamp Harness, near RH Rear Combination Lamp  S403  Rear Lamp Harness, near RH Rear Combination Lamp  S404  Floor Harness 1, near LH Rear Combination Lamp  S405  Rear Door Harness 1, near LH Rear Combination Lamp  S406  Rear Door Harness 1, near LH Rear Combination Lamp  S407  Rear Combination Lamp  S408  Rear Combination Lamp  S418  RH Rear Combination Lamp Jumper, near LH Rear Combination Lamp  S419  S415  RH Rear Combination Lamp Jumper, near RH Rear	C202 (22 Cavities)				
C402 (6 Cavities).  Rear Lamp Harness to RH Rear Combination Lamp Jumper Harness, behind RH Rear Wheelhousing  C406 (6 Cavities).  Floor Harness to LH Rear Combination Lamp Jumper Harness, behind LH Rear Wheelhousing.  10 A 202-15B3  P200 LH Engine Compartment on Bulkhead, near Brake Master Cylinder.  Cylinder.  Q4 A  P201 RH Rear Engine Compartment on Bulkhead, near Battery.  Q6 A  P300 (2-Door).  LH "A" Pillar, under I/P, behind LH Kick Panel.  Q8 A  P401 Rear of Vehicle, right of LH Frame Rail.  Q8 A  P402 Rear of Vehicle, left of RH Frame Rail.  Q9 A  Rear of Vehicle, left of RH Frame Rail.  Q9 A  S208 Main Harness, near Fuse Block 2  S401 Rear Lamp Harness, near LH Rear Combination Lamp  S402 Rear Lamp Harness, near RH Rear Combination Lamp  S403 Rear Lamp Harness, near RH Rear Combination Lamp  S404 Floor Harness 1, near LH Rear Combination Lamp  S405 Rear Door Harness, near License Plate Lamps  S409 Floor Harness 1, near LH Rear Combination Lamp  S414 LH Rear Combination Lamp Jumper, near LH Rear Combination Lamp  S415 Rear Combination Lamp Jumper, near LH Rear Combination Lamp	C401 (6 Cavities) (2-Door)	Floor Harness to Rear Lamp Harness, behind LH Rear			
C406 (6 Cavities)  Floor Harness to LH Rear Combination Lamp Jumper Harness, behind LH Rear Wheelhousing 10 A 202-15B3  P200 LH Engine Compartment on Bulkhead, near Brake Master Cylinder 04 A  P201 RH Rear Engine Compartment on Bulkhead, near Battery 01 A  P300 (2-Door) LH "A" Pillar, under I/P, behind LH Kick Panel 08 A  P401 Rear of Vehicle, right of LH Frame Rail 10 A  P402 Rear of Vehicle, left of RH Frame Rail 10 A  S208 Main Harness, near Fuse Block 2  S401 Rear Lamp Harness, near LH Rear Combination Lamp  S402 Rear Lamp Harness, near RH Rear Combination Lamp  S403 Rear Lamp Harness, near RH Rear Combination Lamp  S404 Floor Harness 1, near LH Rear Combination Lamp  S405 Rear Door Harness 1, near LH Rear Combination Lamp  S409 Floor Harness 1, near LH Rear Combination Lamp  S414 LH Rear Combination Lamp Jumper, near LH Rear Combination Lamp  S415 RH Rear Combination Lamp Jumper, near RH Rear	C402 (6 Cavities)	Rear Lamp Harness to RH Rear Combination Lamp Jumper			
LH Engine Compartment on Bulkhead, near Brake Master Cylinder	C406 (6 Cavities)		10	A	202-15B3
P300 (2-Door) LH "A" Pillar, under I/P, behind LH Kick Panel	P200	LH Engine Compartment on Bulkhead, near Brake Master			
P401 Rear of Vehicle, right of LH Frame Rail	P201	RH Rear Engine Compartment on Bulkhead, near Battery	01	A	
P401 Rear of Vehicle, right of LH Frame Rail	P300 (2-Door)	LH "A" Pillar, under I/P, behind LH Kick Panel	08	A	
P402 Rear of Vehicle, left of RH Frame Rail					
Rear Lamp Harness, near LH Rear Combination Lamp  S402 Rear Lamp Harness, near RH Rear Combination Lamp  S403 Rear Lamp Harness, near RH Rear Combination Lamp  S404 Floor Harness 1, near LH Rear Combination Lamp  S405 Rear Door Harness, near License Plate Lamps  S409 Floor Harness 1, near LH Rear Combination Lamp  S414 LH Rear Combination Lamp Jumper, near LH Rear Combination Lamp  S415 RH Rear Combination Lamp Jumper, near RH Rear					
Rear Lamp Harness, near RH Rear Combination Lamp  Rear Lamp Harness, near RH Rear Combination Lamp  Rear Lamp Harness, near RH Rear Combination Lamp  Floor Harness 1, near LH Rear Combination Lamp  Rear Door Harness, near License Plate Lamps  Floor Harness 1, near LH Rear Combination Lamp  LH Rear Combination Lamp Jumper, near LH Rear  Combination Lamp  S415			,		
S403			1.		
S404		Rear Lamp Harness, near RH Rear Combination Lamp			
S405		Rear Lamp Harness, near RH Rear Combination Lamp			
S409		Floor Harness 1, near LH Rear Combination Lamp			
S414 LH Rear Combination Lamp Jumper, near LH Rear Combination Lamp  S415 RH Rear Combination Lamp Jumper, near RH Rear		Rear Door Harness, near License Plate Lamps			
Combination Lamp  S415		Floor Harness 1, near LH Rear Combination Lamp			
	S414	LH Rear Combination Lamp Jumper, near LH Rear Combination Lamp			
Combination Lamp	S415	RH Rear Combination Lamp Jumper, near RH Rear Combination Lamp		4	

# 8A - 112 - 2 ELECTRICAL DIAGNOSIS

# BACKUP LIGHTS TROUBLESHOOTING HINTS

- 1. Check the TURN BACK Fuse by observing operation of the turn signals.
- 2. Check that G300 is clean and tight.

- 3. For vehicles equipped with Automatic Transmission, check for proper adjustment of TRANSMISSION RANGE SWITCH. Refer to SECTION 7A.
- 4. Check Backup Lamp bulbs.

#### SYSTEM DIAGNOSIS

	RESULT	ACTION
1. Turn Ignition Switch to "ON."	Backup lamps light.	GO to step 2.
Firmly engage Parking Brake.  Move manual selector to "R."	Backup lamps do not light.	GO to step 3 (Manual transmission). GO to step 6 (Automatic transmission).
2. Move manual selector to "P" or "N."	Backup lamps go out.	All systems diagnosed in this cell are functioning normally.
11	Backup lamps remain lit.	GO to step 9 (Manual transmission). GO to step 10 (Automatic transmission).
3. Disconnect connector C104.	More than 0.3 ohms.	Replace BACKUP LAMP SWITCH.
Connect a digital multimeter from C104 terminal 1 to terminal 4 (switch side). Measure resistance.	Less than 0.3 ohms.	GO to step 4.
4. Connect a test lamp from C104 connector cavity 4 to chassis ground.	Test lamp does not light.	Repair open in YEL wire between FUSE BLOCK and BACKUP LAMP SWITCH.
ground.	Test lamp lights.	Go to step 5.
5. Disconnect connectors C402 and C406. Connect a digital multimeter from connector C402/C406 cavity 6 to connector C104 cavity 2. Measure resistance.	More than 0.3 ohms.	Repair open in RED or BRN/RED wire between C402/C406 and BACKUP LAMP SWITCH.
	Less than 0.3 ohms.	Repair open in BLK ground wire between REAR COMBINATION LAMP and G300.
6. Disconnect TRANSMISSION RANGE SWITCH connector C2	More than 0.3 ohms.	Replace TRANSMISSION RANGE SWITCH.
(3-speed A/T) or C106 (4-speed A/T). Connect a digital multimeter across TRANSMISSION RANGE SWITCH connector C2 terminals 1 and 3 (switch side) (3-speed A/T) or C106 terminals 1 and 8 (4-speed A/T). Measure resistance	Less than 0.3 ohms.	GO to step 7.
7. Disconnect connectors C402 and C406. Connect a digital multimeter from TRANSMISSION RANGE SWITCH connector C2 cavity 3 (3-speed A/T) or C106 cavity 8 (4-speed A/T) to connector C402/C406 cavity 6 Measure resistance.	More than 0.3 ohms.	Repair open in RED or BRN/RED wire between TRANSMISSION RANGE SWITCH and C402/C406.
	Less than 0.3 ohms.	GO to step 8.
8. Connect a test lamp from TRANSMISSION RANGE SWITCH connector C2 cavity (3-speed A/T) or C106 cavity (4-speed A/T) to chassis ground.	1	Repair open in YEL wire between TRANSMISSION RANGE SWITCH and FUSE BLOCK 2.
	Test lamp lights.	Repair open in BLK wire between REAR COMBINATION LAMP and G300.

# SYSTEM DIAGNOSIS

TEST	RESULT	ACTION
9. Disconnect connector C104.	Backup lamps go out.	Replace BACKUP LAMP SWITCH.
10. D	Backup lamps remain lit.	Repair short to voltage in RED or BRN/RED wire between BACKUP LAMP SWITCH and REAR COMBINATION LAMP.
10. Disconnect TRANSMISSION RANGE SWITCH connector C2 (3-speed A/T) or C106 (4-speed A/T).	101 100 100 1	Replace TRANSMISSION RANGE SWITCH.
	Backup lamps remain lit.	Repair short to voltage in RED or BRN/RED wire between TRANSMISSION RANGE SWITCH and REAR COMBINATION LAMP

# COMPONENT REPLACEMENT INFORMATION

For component replacement procedures, refer to the section listed below.		
Backup Lamp Switch		
Transmission Dance Switch	Section	7B
Transmission Range Switch	Section	7 4

### **CIRCUIT OPERATION**

Whenever the Ignition Switch is in either the "ON" or "START" position, battery voltage is applied through the TURN BACK Fuse to the BACKUP LAMP SWITCH (Manual Transmission) or the TRANSMISSION RANGE SWITCH (Automatic Transmission). When the manual selector is placed in "R," the switch closes and battery voltage is applied to the Backup Lamps in the REAR COMBINATION LAMPS. The REAR COMBINATION LAMPS are permanently grounded at G300.