GROUP

LIGHTING SYSTEM 32

((13000))

SECTION 32-02 Headlamp System

VEHICLE APPLICATION

Capri.

DESCRIPTION

Headlamp

A plastic headlamp (sealed beam) is held in place by a retainer ring. The headlamp is aimed by turning a screw at the top or outer edge of each headlamp.

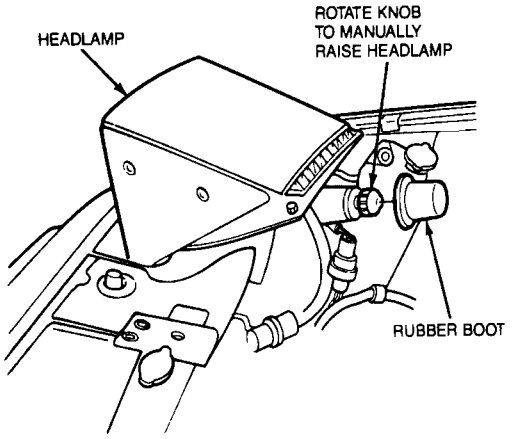
The headlamp assembly is mounted on a bracket that is raised and lowered by an electric motor. The headlamp assemblies raise automatically when the headlamps are turned on. The headlamps will lower, after a slight delay, when the headlamps are turned off.

The headlamp motor switch, located on the console, is used to raise and lower the headlamps without turning the headlamps on. This switch allows service of headlamps and can be used to prevent lamps from freezing in the closed position in winter climates.

A manual control knob, located under a rubber boot, is provided at the rear of each headlamp. This knob allows each motor to be operated separately if there is no electrical power available. Refer to the following for complete operating procedure:

1. Open hood.
2. Remove rubber boot from manual knob.
3. Rotate knob to raise or lower headlamp.
4. Install rubber boot.
5. Close hood.

DESCRIPTION (Continued)



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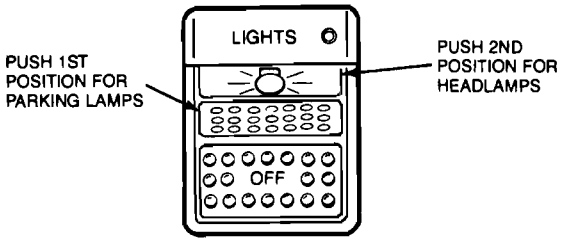
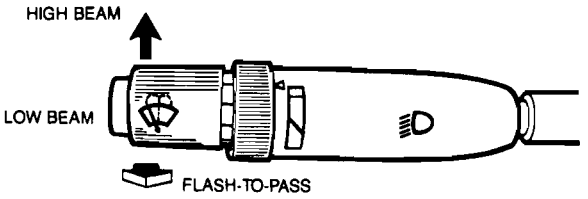
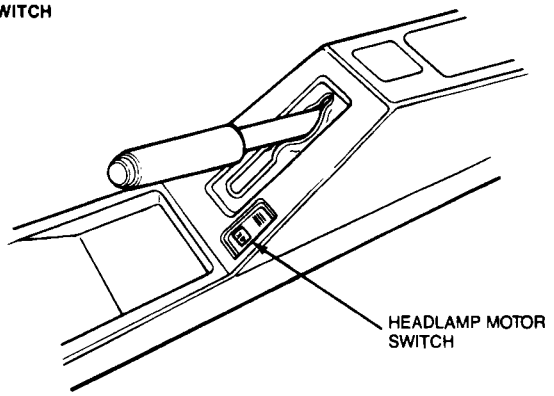


HEADLAMP ON/OFF SWITCH



HEADLAMP CONTROL SWITCH



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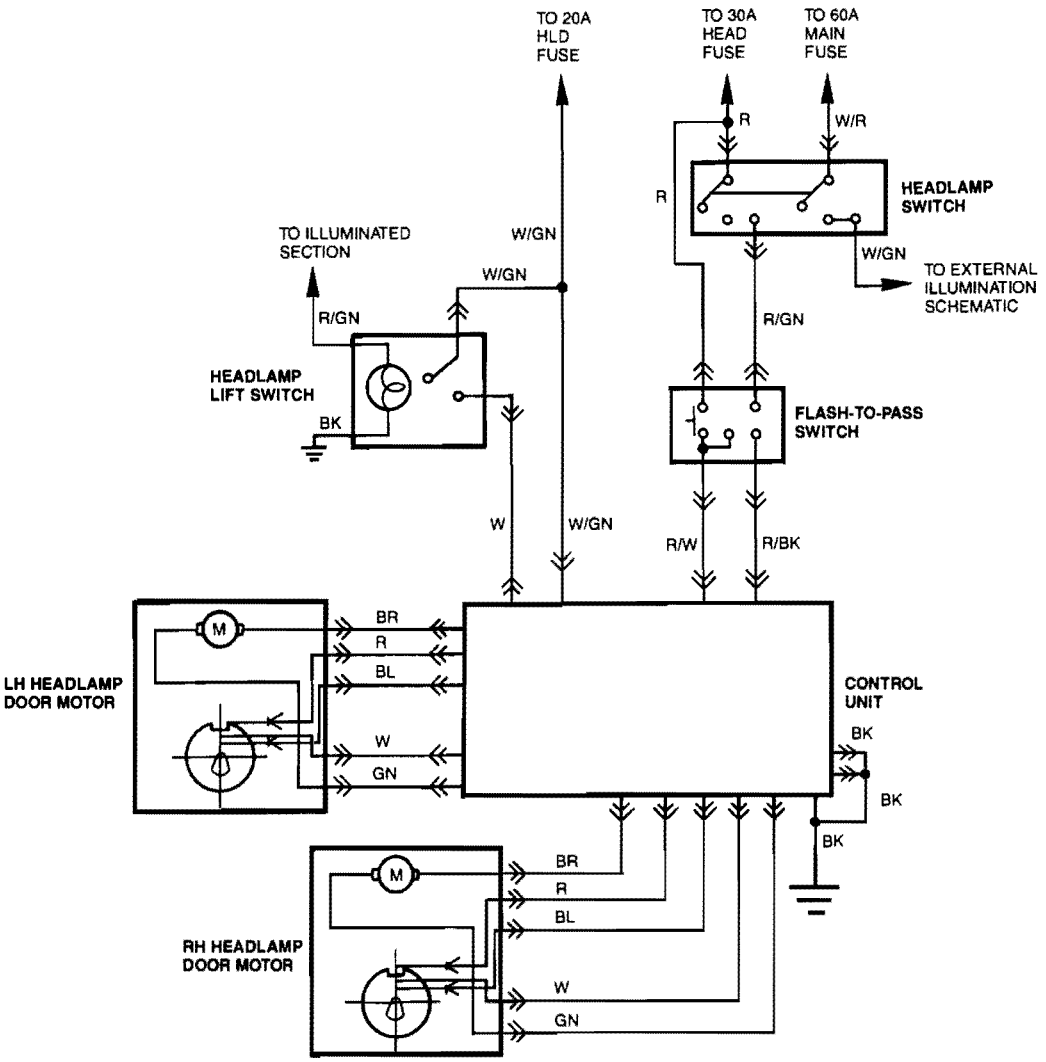
DESCRIPTION (Continued)

Headlamp Doors



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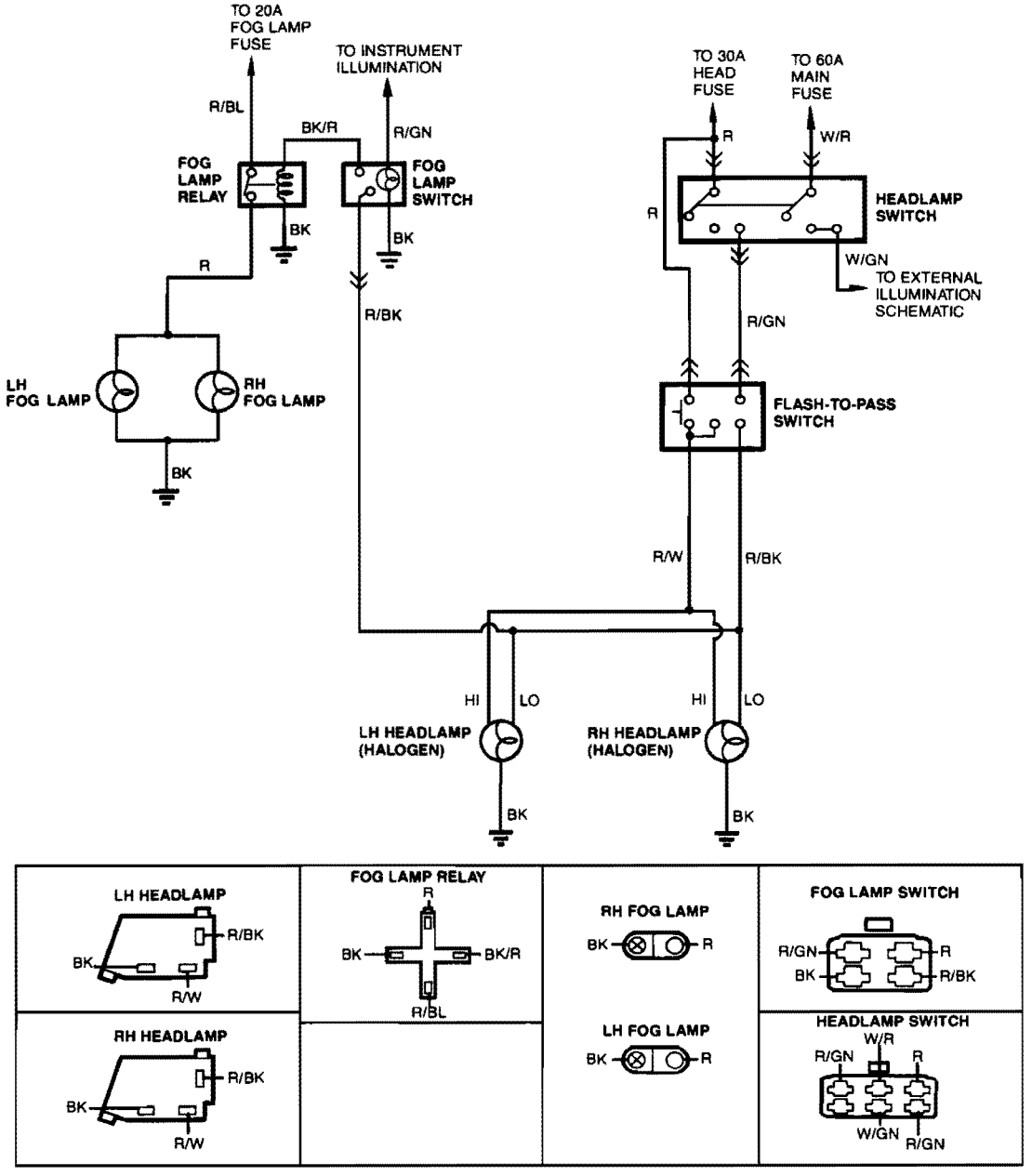
DESCRIPTION (Continued)

Headlamp and Fog Lamps



K15424-A

Fog Lamps

The fog lamp system consists of two fog lamps, a switch and wiring.

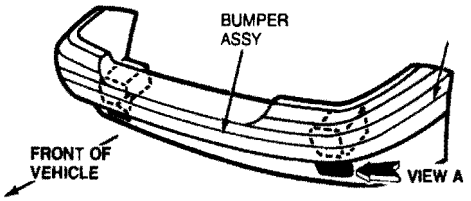
The fog lamps are mounted to the front bumper. The fog lamp switch is located on the LH side of the instrument panel.

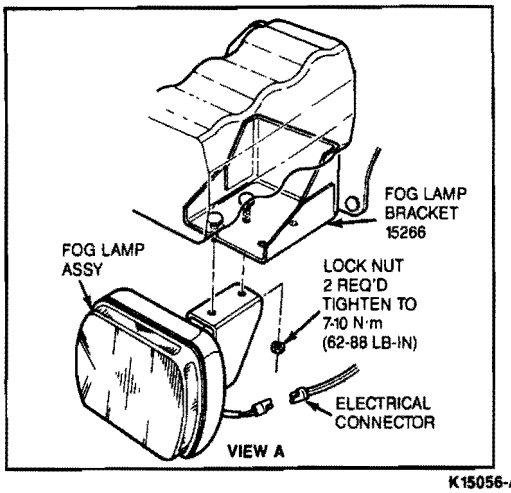
DESCRIPTION (Continued)

Push the switch to turn on the fog lamps. An indicator lamp on the switch will illuminate when the fog lamps are on.

Push the switch again to turn the fog lamps off.

NOTE: The fog lamps will operate only when the headlamps are on and in the low beam position.





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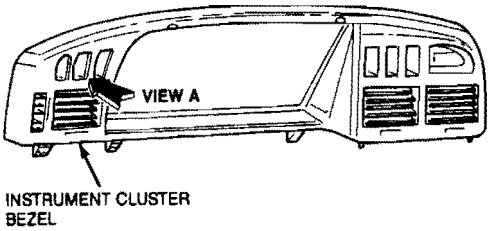
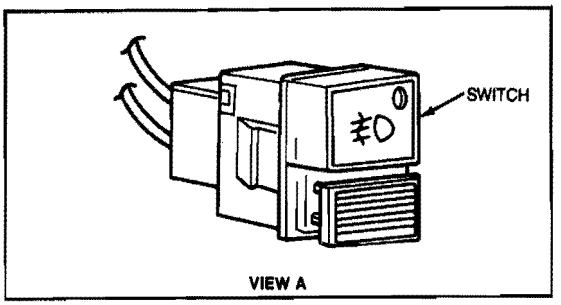




K14839-A

DIAGNOSIS AND TESTING

Visual Inspection

1. Visually inspect the components. Check for:
   a. Blown fuses (HEAD, MAIN, FOG LAMP, or H.L.D.).
   b. Damage to wiring harness.
   c. Corroded connectors.
   d. Blown bulbs.
   e. Motor arm blockage.
2. Shake the wiring harness between the bulbs and either the headlamp switch or the fog lamp switch. Look for obvious signs of shorts, opens or damage.
3. Check to see if horn system works before proceeding. If not, check the MAIN fuse in the main fuse panel.
4. If fault is not visually evident, verify condition and refer to the following chart.

CONDITION	POSSIBLE SOURCE	ACTION
• Headlamps Do Not Operate	• Fuse. • Headlamp switch. • Flash-to-pass switch. • Circuit.	• Go to **HL1.** • Go to **HL4.** • Go to **HL6.** • Go to **HL4.**
• Headlamps Stay On All The Time	• Headlamp switch. • Circuit.	• Go to **HL4.** • Go to **HL4.**
• Headlamps Turn On When Headlamp Switch is in First Position	• Headlamp switch. • Circuit.	• Go to **HL4.** • Go to **HL4.**

DIAGNOSIS AND TESTING (Continued)

CONDITION	POSSIBLE SOURCE	ACTION
• High Beams Do Not Operate	• Headlamp switch. • Circuit.	• Go to **HL4.** • Go to **HL4.**
• High Beams Work, Low Beams Do Not Work	• Flash-to-pass switch. • Circuit.	• Go to **HL6.** • Go to **HL4.**
• Fog Lamps Do Not Operate	• Fuse. • Bulbs. • Fog lamp switch. • Fog lamp relay. • Circuit.	• Go to **FL1.** • Go to **FL10.** • Go to **FL5.** • Go to **FL7.** • Go to **FL5.**
• Fog Lamps Stay On With High Beams On	• Flash-to-pass switch. • Circuit.	• Go to **HL6.** • Go to **HL4.**
• Fog Lamps Stay On All The Time	• Fog lamp switch. • Fog lamp relay. • Circuit.	• Go to **FL5.** • Go to **FL7.** • Go to **FL5.**
• Fog Lamps Turn On With Headlamps Off	• Fog lamp relay. • Headlamp switch. • Circuit.	• Go to **FL7.** • Go to **HL4.** • Go to **FL5.**
• Headlamp Doors Do Not Operate	• Fuse. • Control unit. • Headlamp door motors. • Circuit. • Headlamp switch • Flash-to-pass switch.	• Go to **D1.** • Go to **D4.** • Go to **D7.** • Go to **D4.** • Go to **HL4.** • Go to **HL6.**
• Headlamp Doors Do Not Open When Headlamp Lift Switch is ON	• Headlamp lift switch. • Fuse. • Headlamp door motors. • Circuit.	• Go to **D11.** • Go to **D1.** • Go to **D7.** • Go to **D4.**
• Headlamp Doors Do Not Close	• Fuse. • Control unit. • Headlamp door motors. • Circuit. • Headlamp switch.	• Go to **D1.** • Go to **D4.** • Go to **D7.** • Go to **D4.** • Go to **HL4.**
• Headlamp Doors Open When The Headlamp Switch is in First Position	• Headlamp switch. • Control unit. • Circuit.	• Go to **HL4.** • Go to **D4.** • Go to **D4.**

DIAGNOSIS AND TESTING (Continued)

TEST STEP		RESULT	ACTION TO TAKE
HL1	CHECK FUSE		
	• Access main fuse panel. • Check 30 amp head fuse and 60 amp main fuse. • Are fuses OK?	Yes ▶ No ▶	GO to **HL4.** GO to **HL2.**
HL2	CHECK SYSTEM		
	• Replace blown fuse(s). • Key ON. • Did fuse(s) blow again?	Yes ▶ No ▶	GO to **HL3.** GO to **HL4.**
HL3	CHECK FOR SHORT TO GROUND		
	• Key OFF. • Disconnect R and W/R wires from fuse panel. • Measure resistance from wire in question to ground. • Is the resistance less than 5 ohms?	Yes ▶ No ▶	SERVICE wire in question. REPLACE headlamp switch.
HL4	CHECK POWER SUPPLY TO HEADLAMP SWITCH		
	• Access headlamp switch. • Key ON. • Measure voltge on the R and W/R wires at headlamp switch connector. • Is the voltage greater than 10 volts?	Yes ▶ No ▶	GO to **HL5.** SERVICE wire in question.
HL5	CHECK HEADLAMP SWITCH		
	• Key OFF. • Access headlamp switch. • **Press headlamp switch to first position.** • Measure resistance from R wire to the R/GN wire at switch connector. • Is resistance greater than 10,000 ohms? • **Press headlamp switch to second position.** • Measure resistance of R wire to the R/GN wire at switch connector. • Is resistance less than 5 ohms?	Yes ▶ No ▶	GO to **HL6.** REPLACE headlamp switch.

CK14648-A

DIAGNOSIS AND TESTING (Continued)

TEST STEP	RESULT	ACTION TO TAKE
HL6 CHECK LEAD TO FLASH-TO-PASS SWITCH		
• Access flash-to-pass switch. • Measure resistance of R/GN wire between headlamp switch and flash-to-pass switch. • Is resistance less than 5 ohms?	Yes ▶ No ▶	GO to **HL7.** SERVICE R/GN wire.
HL7 CHECK SUPPLY TO FLASH-TO-PASS SWITCH		
• Key ON. • Measure voltage of the R wire at the flash-to-pass switch. • Is voltage greater than 10 volts?	Yes ▶ No ▶	GO to **HL8.** SERVICE R wire.
HL8 CHECK FLASH-TO-PASS SWITCH		
• Verify the following wire voltages at the switch connector at the specified flash-to-pass switch position.	Yes ▶ No ▶	GO to **HL9.** REPLACE flash-to-pass switch.

Switch Position	Wire	Voltage
OFF (Headlamps OFF)	R all others	Greater than 10 volts Less than 1 volt
ON (Headlamps ON)	R/GN, R/W, R all others	Greater than 10 volts Less than 1 volt
ON (Headlamps OFF)	R, R/W all others	Greater than 10 volts Less than 1 volt
OFF (Headlamps ON)	R, R/GN, R/BK all others	Greater than 10 volts Less than 1 volt

• Are the voltages verified?		
HL9 SYMPTOM MENU		
• Headlamps do not operate correctly.	▶	GO to **HL10.**
• Fog lamps do not operate correctly.	▶	GO to **FL1.**
• Headlamp doors do not operate correctly.	▶	GO to **D1.**

CK14649-A

DIAGNOSIS AND TESTING (Continued)

TEST STEP		RESULT	ACTION TO TAKE
HL10	CHECK SUPPLY TO HEADLAMPS		
	• Access headlamps. • Measure resistance of the R/W and R/BK wire between the flash-to-pass switch and headlamps. • Are resistances less than 5 ohms?	Yes ▶ No ▶	GO to **HL11**. SERVICE wire in question.
HL11	CHECK HEADLAMP GROUNDS		
	• Measure resistance of the BK wires from the headlamps to ground. • Are resistances less than 5 ohms?	Yes ▶ No ▶	GO to **HL12**. SERVICE BK ground circuit.
HL12	CHECK HEADLAMPS		
	• Key ON. • Does headlamp system work properly?	Yes ▶ No ▶	RETURN to condition chart. REPLACE headlamp in question.

CK14650-A

DIAGNOSIS AND TESTING (Continued)

TEST STEP		RESULT	ACTION TO TAKE
FL1	CHECK SUPPLY TO FUSE		
	• Access interior fuse panel. • Key ON. • Measure voltage on W/R wire at the fuse panel. • Is voltage greater than 10 volts?	Yes ▶ No ▶	GO to **FL2.** SERVICE W/R wire.
FL2	CHECK FUSE		
	• Is the 20 amp fog lamp fuse good?	Yes ▶ No ▶	GO to **FL5.** GO to **FL3.**
FL3	CHECK SYSTEM		
	• Replace 20 amp fog lamp fuse. • Key ON. • Did fuse blow again?	Yes ▶ No ▶	GO to **FL4.** GO to **FL5.**
FL4	CHECK FOR SHORT TO GROUND		
	• Key OFF. • Disconnect R/BL wire from the fuse panel. • Measure resistance of the R/BL wire to ground. • Is resistance less than 5 ohms?	Yes ▶ No ▶	SERVICE R/BL wire. REPLACE fog lamp relay.
FL5	CHECK LEAD TO FOG LAMP SWITCH		
	• Access fog lamp switch. • Mesure resistance of the R/BK wire between the flash-to-pass switch and the fog lamp switch. • Is resistance less than 5 ohms?	Yes ▶ No ▶	GO to **FL6.** SERVICE R/BK wire.
FL6	CHECK FOG LAMP SWITCH		
	• **Press fog lamp switch to the ON position.** • Measure resistance between the R/W wire and BK/R wire at the switch. • Is resistance less than 5 ohms? • **Press fog lamp switch to OFF position.** • Measure resistance between R/W wire and the BK/R wire at the switch. • Is resistance greater than 10,000 ohms?	Yes ▶ No ▶	GO to **FL7.** REPLACE fog lamp switch.

CK15401-A

DIAGNOSIS AND TESTING (Continued)

TEST STEP		RESULT	ACTION TO TAKE
FL7	CHECK LEAD TO RELAY		
	• Access fog lamp relay.	Yes ▶	GO to **FL8.**
	• Measure resistance of the BK/R wire between the fog lamp switch and fog lamp relay.	No ▶	SERVICE BK/R wire.
	• Is resistance less than 5 ohms?		
FL8	CHECK FOG LAMP RELAY GROUND		
	• Measure resistance of the BK wire at relay to ground.	Yes ▶	GO to **FL9.**
	• Is resistance less than 5 ohms?	No ▶	SERVICE BK ground circuit.
FL9	CHECK FOG LAMP RELAY		
	• **Apply 12 volts on the BK/R wire at the relay.**	Yes ▶	GO to **FL10.**
	• Measure resistance between the R/BL and R wires at relay connector.	No ▶	REPLACE fog lamp relay.
	• Is resistance less than 5 ohms?		
	• **Take off 12 volts.**		
	• Measure resistance between the R/BL and R wires at relay connector.		
	• Is resistance greater than 10,000 ohms?		
FL10	CHECK SUPPLY TO FOG LAMPS		
	• Access fog lamps.	Yes ▶	GO to **FL11.**
	• Measure resistance of the R wire between the relay and fog lamps.	No ▶	SERVICE R wire.
	• Is resistance less than 5 ohms?		
FL11	CHECK FOG LAMP GROUNDS		
	• Measure resistance of the BK wire between lamps and ground.	Yes ▶	GO to **FL12.**
	• Is resistance less than 5 ohms?	No ▶	SERVICE BK ground circuit.
FL12	CHECK FOG LAMPS		
	• Key ON.	Yes ▶	RETURN to condition chart.
	• Headlamps on.		
	• Fog lamp switch on.	No ▶	REPLACE fog lamp that did not illuminate.
	• Do the fog lamps work?		

CK15402-A

DIAGNOSIS AND TESTING (Continued)

TEST STEP		RESULT	ACTION TO TAKE
D1	CHECK FUSE		
	• Access main fuse panel. • Check 20 amp H.L.D. fuse. • Is fuse OK?	Yes ▶ No ▶	GO to **D4.** GO to **D2.**
D2	CHECK SYSTEM		
	• Replace 20 amp H.L.D. fuse. • Key ON. • Did fuse blow again?	Yes ▶ No ▶	GO to **D3.** GO to **D4.**
D3	CHECK FOR SHORT TO GROUND		
	• Key OFF. • Disconnect the W/GN wire from fuse panel. • Measure resistance of the wire to ground. • Is resistance less than 5 ohms?	Yes ▶ No ▶	SERVICE W/GN wire. REPLACE control unit.
D4	CHECK SUPPLY TO CONTROL UNIT		
	• Access control unit. • Key ON. • Measure voltage on W/GN wire at the control unit. • Is voltage greater than 10 volts?	Yes ▶ No ▶	GO to **D5.** SERVICE W/GN wire.
D5	CHECK SUPPLY TO CONTROL UNIT		
	• **Headlamps ON.** • Measure voltage on R/BK wire at the control unit. • Is voltage greater than 10 volts? • **HI beams ON.** • Measure voltage on R/W wire at the control unit. • Is voltage greater than 10 volts?	Yes ▶ No ▶	GO to **D6.** SERVICE wire in question.
D6	CHECK CONTROL UNIT GROUND		
	• Key OFF. • Measure resistance of BK wire at the control unit to ground. • Is resistance less than 5 ohms?	Yes ▶ No ▶	GO to **D7.** SERVICE BK ground circuit.

CK15404-A

DIAGNOSIS AND TESTING (Continued)

TEST STEP		RESULT	ACTION TO TAKE
D7	CHECK LEADS TO MOTOR (LH)		
	• Access LH headlamp door motor.	Yes ▶	GO to **D8.**
	• Measure resistance of the following wires between the control unit and the motor: • BR • W • R • GN • BL	No ▶	SERVICE wire in question.
	• Are resistances less than 5 ohms?		
D8	CHECK LEADS TO MOTOR (RH)		
	• Access RH headlamp door motor.	Yes ▶	GO to **D9.**
	• Measure resistance of the following wires between the control unit and the motor: • BR • W • R • GN • BL	No ▶	SERVICE wire in question.
	• Are resistances less than 5 ohms?		
D9	CHECK HEADLAMP DOOR MOTOR		
	• Headlamps OFF.	Yes ▶	GO to **D10.**
	• Access motors.	No ▶	REPLACE headlamp door motor(s).
	• Apply 12 volts to BR wire at the connector.		
	• Ground GN wire at the connector.		
	• Does the door open?		
	• Reverse the connections.		
	• Does the door close?		
D10	CHECK SUPPLY TO HEADLAMP DOOR SWITCH		
	• Access headlamp door switch.	Yes ▶	GO to **D11.**
	• Key ON.	No ▶	SERVICE W/GN wire.
	• Measure voltage on the W/GN wire at headlamp door switch.		
	• Is voltage greater than 10 volts?		

CK15977-A

DIAGNOSIS AND TESTING (Continued)

TEST STEP		RESULT	ACTION TO TAKE
D11	CHECK LEAD BETWEEN HEADLAMP LIFT SWITCH AND CONTROL UNIT		
	• Key OFF. • Access control unit. • Measure resistance of the W wire between the headlamp lift switch and the control unit. • Is resistance less than 5 ohms?	Yes ▶ No ▶	GO to **D12.** SERVICE W wire.
D12	CHECK HEADLAMP LIFT SWITCH		
	• Key ON. • **Turn headlamp lift switch on.** • Measure resistance between W/GN wire and the W wire at the switch connector. • Is resistance less than 5 ohms? • **Turn headlamp lift switch off.** • Measure resistance between W/GN wire and the W wire at the switch connector. • Is resistance greater than 10,000 ohms?	Yes ▶ No ▶	GO to **D13.** REPLACE headlamp lift switch.
D13	CHECK CONTROL UNIT		
	• Turn headlamps ON. • Do headlamp doors open? • Turn headlamps off. • Do headlamp doors close?	Yes ▶ No ▶	RETURN to condition chart. REPLACE control unit.

CK15978-A

ADJUSTMENTS

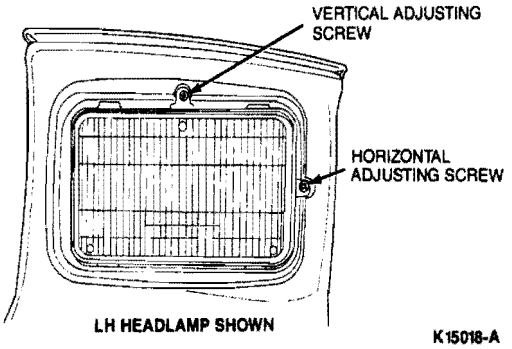
Headlamp Aim

All headlamp adjustments should be made with a half tank of fuel, the luggage compartment empty (except for the spare tire and jack equipment) and correct tire pressures.

The area used to aim headlamps must be flat, although the headlamp aiming equipment can be calibrated to accommodate a slight slope in the floor.

The headlamp aiming screws are located at the top and outer sides of each headlamp. Both of these screws are accessible when the headlamps are in their normal operating position.

Shims are used on the bolts securing the bottom of the headlamp assembly to the body. If necessary, shims can be added or removed. Refer to Headlamp Assembly, Removal and Installation.



Raise and Lower Adjustment

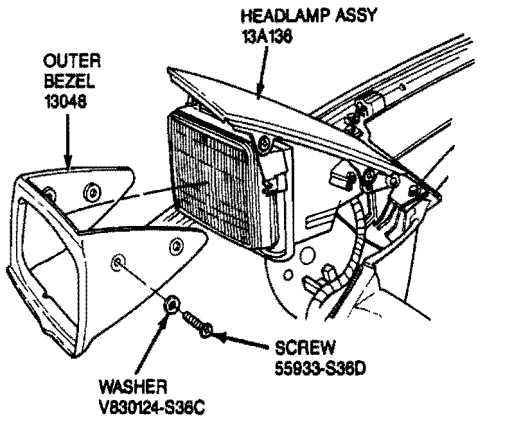
NOTE: The headlamp linkage and assembly is preset at the factory to meet the clearance requirement between turn signal lamp and headlamp. If linkage is required to be adjusted, the headlamp carrier hinges and motor carrier assembly must be replaced with linkage.

REMOVAL AND INSTALLATION

Headlamp

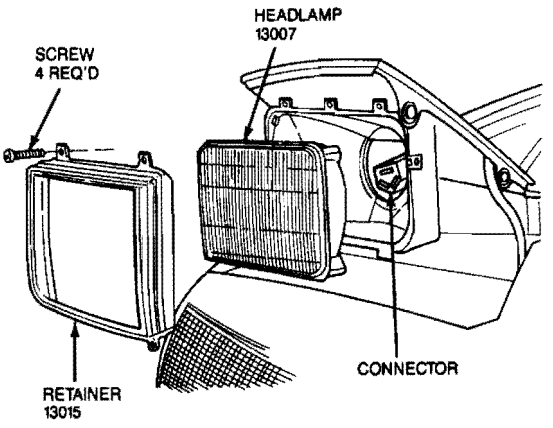
Removal

1. Raise the headlamps to the normal operating position.
2. Remove the four screws and washers retaining the outer bezel enclosing the entire headlamp assembly. Remove the bezel.



NOTE: Do not disturb the headlamp adjusting screws.

3. Remove four screws and retainer.
4. Remove headlamp and unplug connector.



Installation

1. Plug connector onto headlamp.
2. Install headlamp with retainer and four screws. Tighten securely.
3. Check headlamp(s) for proper illumination.

CAUTION: Make sure lower edge of bezel is below the vehicle's front fascia. The screws and washers used to secure the outer bezel must be installed flush with the sides of the bezel. If the washers are installed upside-down the screws may protrude and interfere with headlamp assembly movement.

REMOVAL AND INSTALLATION (Continued)

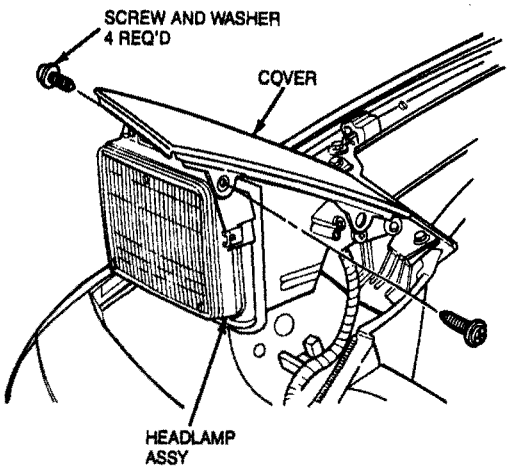
4. Install outer bezel over entire headlamp assembly. It may be necessary to "roll" the bezel into position starting with the lower edge. Install washers and screws so that screws are flush with sides of bezel.
5. Raise and lower headlamps to check for proper operation.

Headlamp Assembly

Removal

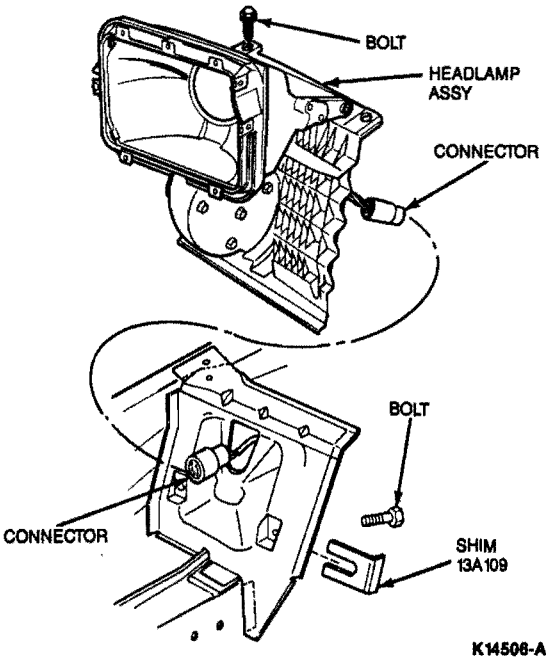
1. Raise headlamps to the normal operating position, and open hood.
2. Remove the windshield washer reservoir or coolant reservoir, depending on which headlamp assembly requires servicing.
3. Remove bezel and headlamp as outlined. Route wiring away from headlamp assembly.

   CAUTION: The headlamp assembly cover is painted to match body color. Use care to prevent damage during removal.
4. Remove four screws and cover from headlamp assembly.



NOTE: Shims may be used at the lower bolts. Note their quantity and placement during removal for proper installation.

5. Remove four bolts retaining headlamp assembly to body. Remove shim(s) if used.
6. Unplug connector from motor and remove headlamp assembly.



CAUTION: Do not adjust linkage.

Installation

1. Position the headlamp assembly onto the vehicle. Route wiring and connect to motor.
2. Install shim(s), if equipped, and four bolts that retain headlamp assembly. Tighten bolts to 3-5 N·m (27-44 lb-in).
3. Carefully install the headlamp cover with four screws. Tighten to 1.6-2.0 N·m (15-17 lb-in).
4. Install headlamp and bezel as outlined.
5. Install the windshield washer reservoir or coolant reservoir.
6. Check operation and aim of headlamps. Adjust as required.

   CAUTION: Do not adjust linkage.

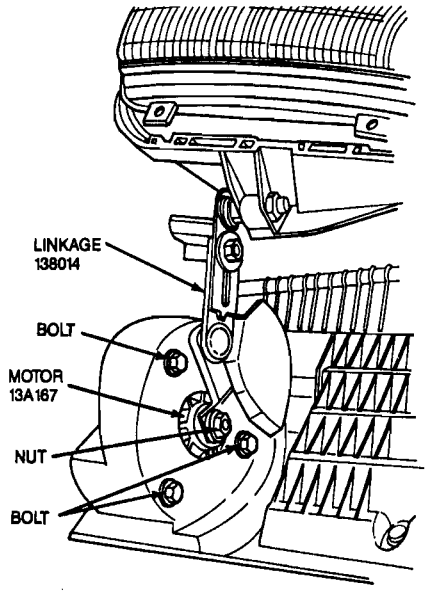
Headlamp Motor

Removal

1. Remove headlamp assembly as outlined.
2. Remove nut retaining linkage to motor.

REMOVAL AND INSTALLATION (Continued)

3. Remove three retaining bolts and motor.



Installation

1. Position motor onto headlamp frame and secure with three bolts.
2. Connect linkage to motor and install nut. Tighten securely.
3. Install headlamp assembly as outlined.
4. Check headlamp assembly for proper operation.

CAUTION: Do not adjust linkage.

Linkage

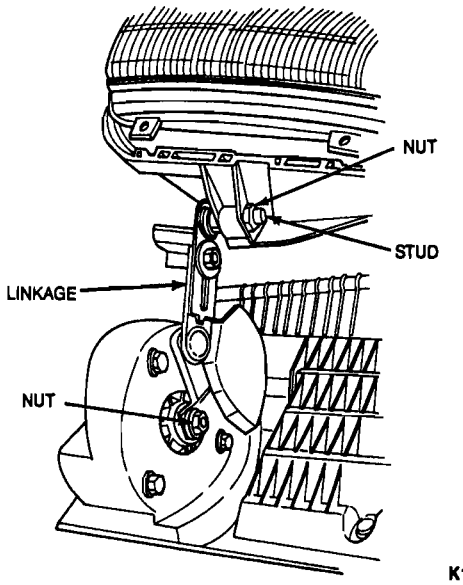
Removal

1. Raise headlamps to the normal operating position.
2. Remove nut retaining linkage to motor.
3. Remove nut and linkage with stud from headlamp assembly. Remove linkage.

Installation

1. Install stud through headlamp assembly and install nut.
2. Connect linkage to motor and install nut.
3. Check headlamp assembly for proper operation.

CAUTION: Do not adjust linkage.

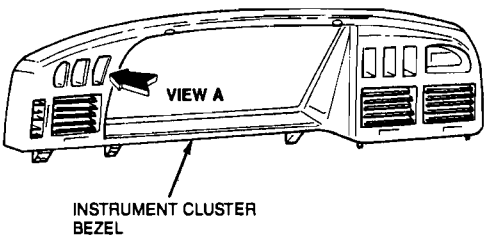


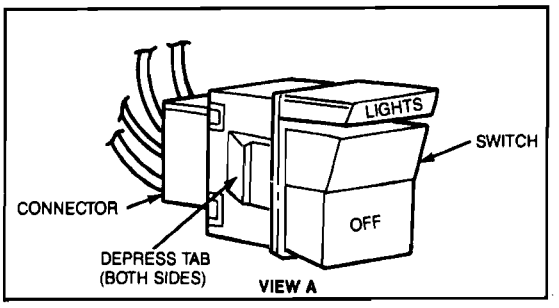
Headlamp Switch

The headlamp switch is located on the LH side of the instrument panel.

Removal

1. Disconnect negative battery cable.
2. Remove instrument cluster bezel. Refer to Section 45-61.
3. Disconnect electrical connector from switch.
4. Depress tangs on both sides of switch and remove from bezel.





REMOVAL AND INSTALLATION (Continued)

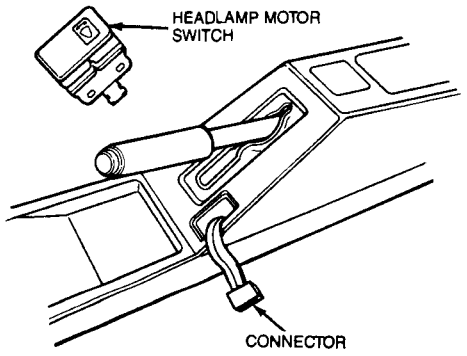
Installation

1. Insert switch into instrument bezel. Make sure switch is fully seated in bezel.
2. Connect electrical connector to switch.
3. Install instrument cluster bezel. Refer to Section 45-61.
4. Connect negative battery cable.
5. Check switch for proper operation.

Headlamp Motor Switch

Removal and Installation

1. Gently pry switch from console. If necessary loosen console and press from below. Refer to Section 45-31.
2. Disconnect electrical connector.
3. Connect electrical connector to switch and snap switch into console.
4. Check switch for proper operation.



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High Beam/Flash-To-Pass Switch

Removal and Installation

The high beam/flash-to-pass switch is part of the turn signal switch on the steering column. Refer to Section 32-40 for Removal and Installation.

High Beam Indicator Lamp Bulb

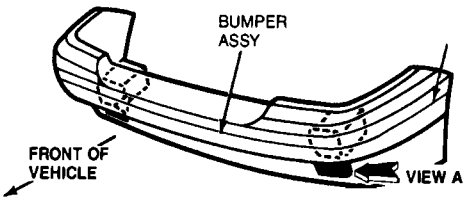
Removal and Installation

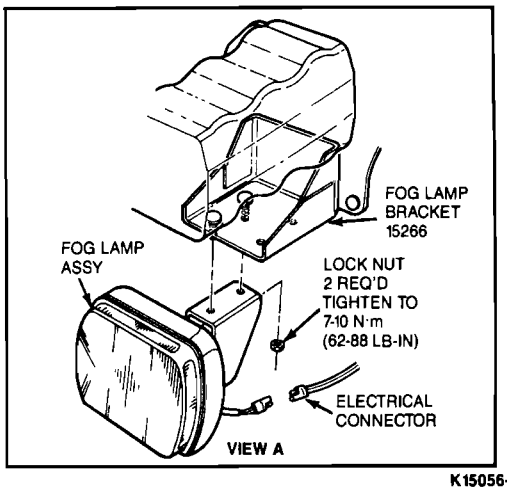
The high beam indicator lamp bulb is located in the instrument cluster. For Removal and Installation of the bulb, refer to Section 33-01.

Fog Lamp

Removal

1. Disconnect the electrical connector at the rear of the fog lamp.
2. Remove two nuts retaining the fog lamp assembly to the bracket, and remove the fog lamp assembly.





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Installation

1. Position the fog lamp assembly to the bracket, and secure with two retaining nuts. Tighten to 7-10 N·m (62-88 lb-in).
2. Connect the electrical connector. Check for proper operation of fog lamps.

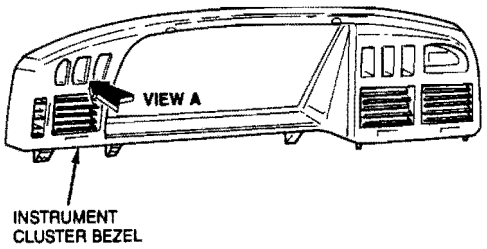
Fog Lamp Switch

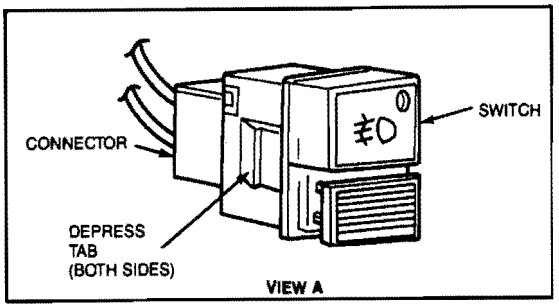
Removal

1. Disconnect the negative battery cable.
2. Remove instrument cluster bezel. Refer to Section 45-61.
3. Disconnect electrical connector from switch.

REMOVAL AND INSTALLATION (Continued)

4. Depress tangs on both sides of switch and remove from bezel.





Installation

1. Insert switch into instrument cluster bezel. Make sure switch is fully seated in bezel.
2. Connect electrical connector to switch.
3. Install instrument cluster bezel. Refer to Section 45-61.
4. Connect negative battery cable. Check switch for proper operation.

SECTION 32-20 Lamps—Parking, Rear and Marker

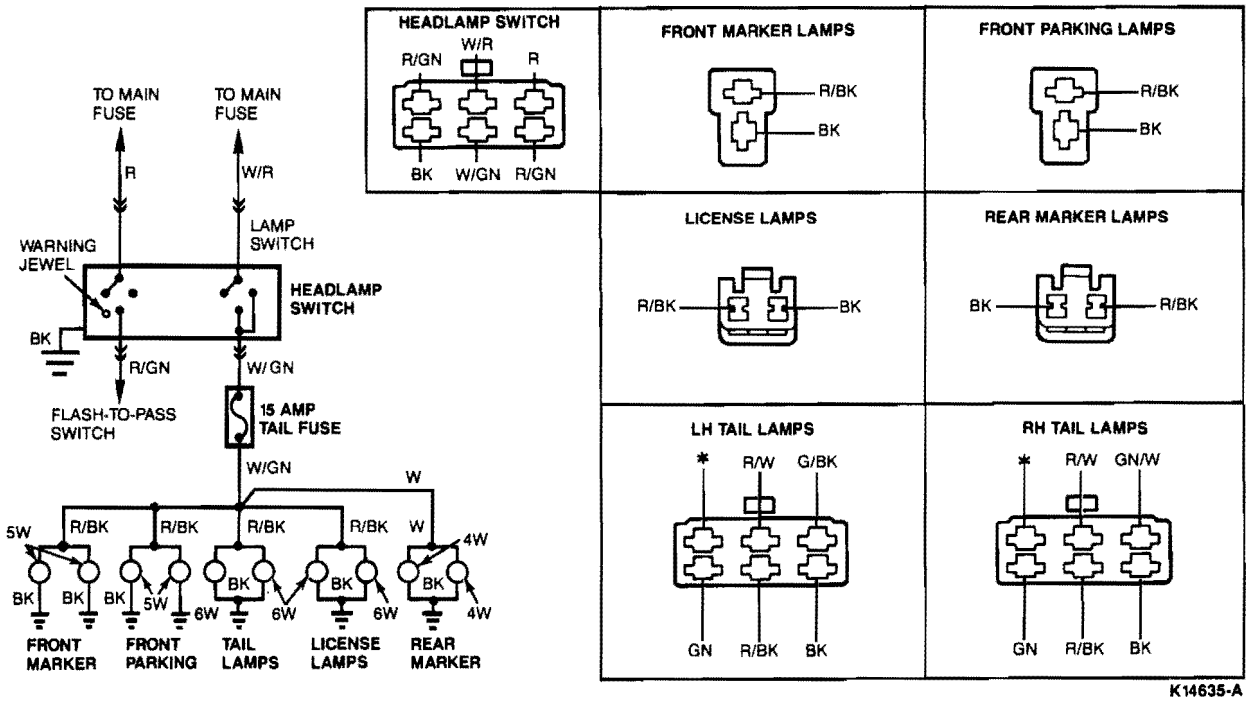
VEHICLE APPLICATION

Capri.

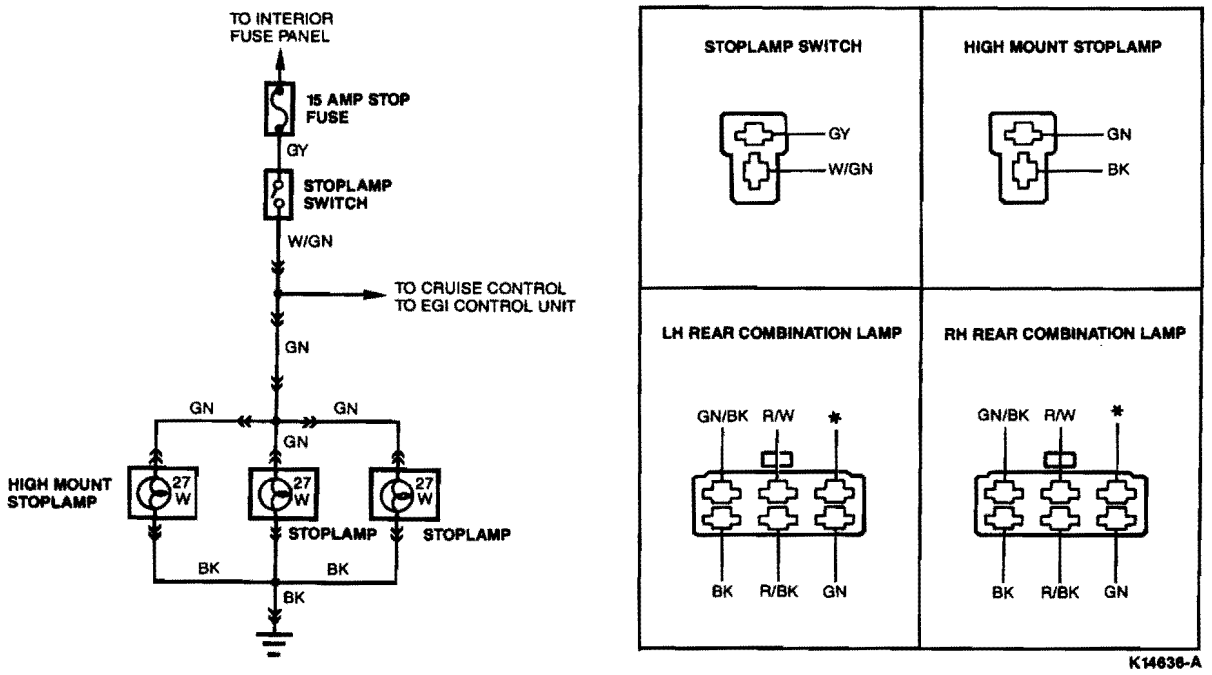
DESCRIPTION

Parking/marker lamps, tail lamps and license lamp circuits are controlled by the headlamp switch. When the headlamp switch is depressed to the first detent, only the parking/marker lamps, tail lamps and license lamps are illuminated.

When the headlamp switch is depressed to the second detent, the parking/marker lamps, tail lamps and license lamps remain on, but the retractable headlamps also raise from the stored position and are illuminated.



DESCRIPTION (Continued)



DIAGNOSIS AND TESTING

Visual Inspection

1. Visually inspect the components. Check for:
   a. Blown fuses (main, stop or tail).
   b. Damage to wiring harness.
   c. Corroded connectors.
   d. Blown bulbs.
2. Exercise the wiring harness between the bulbs and either the stop switch or the headlamp switch. Look for obvious signs of shorts, opens or damage.
3. Check to see if horn system works before proceeding. If not, check the "BTN" fuse in the main fuse panel.
4. If fault is not visually evident, verify condition and refer to the following chart.

CONDITION	POSSIBLE SOURCE	ACTION
• Stoplamps Do Not Work	• Fuse. • Circuit. • Stop switch. • Bulbs.	• Go to **SL1.** • Go to **SL2.** • Go to **SL4.** • Go to **SL7.**
• Stoplamps Run Continuously	• Circuit. • Stop switch.	• Go to **SL2.** • Go to **SL4.**
• Not All Lamps Work	• Circuit. • Bulbs.	• Go to **SL2.** • Go to **SL7.**
• No Exterior Lamps Work	• Main fuse. • 15 amp tail fuse. • Headlamp switch. • Circuit. • Bulbs.	• Go to **EL1.** • Go to **EL6.** • Go to **EL4.** • Go to **EL1.** • Go to **EL10.**

DIAGNOSIS AND TESTING (Continued)

CONDITION	POSSIBLE SOURCE	ACTION
• Some External Lamps Work, But Not All	• Circuit. • Bulb.	• Go to **EL1.** • Go to **EL10.**
• All External Lamps Do Not Turn Off	• Headlamp switch. • Circuit.	• Go to **EL4.** • Go to **EL1.**
• External Lamps Do Not Work When Headlamp Switch is in Second Position	• Headlamp switch. • Circuit. • Bulbs.	• Go to **EL4.** • Go to **EL1.** • Go to **EL10.**

TEST STEP		RESULT ▶	ACTION TO TAKE
SL1	CHECK STOP FUSE		
	• Access interior fuse panel.	Yes ▶	GO to **SL4.**
	• Is the fuse OK?	No ▶	GO to **SL2.**
SL2	CHECK SYSTEM		
	• Replace 15 amp stop fuse.	Yes ▶	GO to **SL3.**
	• Key ON.	No ▶	GO to **SL4.**
	• Did fuse blow again?		
SL3	CHECK FOR SHORTS TO GROUND		
	• Key OFF.	Yes ▶	SERVICE / REPLACE wire.
	• Disconnect GY wire from fuse panel.	No ▶	SERVICE / REPLACE stop switch.
	• Measure resistance between one end of the GY wire and ground.		
	• Is the resistance less than 5 ohms?		
SL4	CHECK POWER SUPPLY TO THE STOP SWITCH		
	• Access stop switch.	Yes ▶	GO to **SL5.**
	• Key ON.	No ▶	SERVICE / REPLACE GY wire.
	• Measure voltage on GY wire at the stop switch.		
	• Is voltage greater than 10 volts?		
SL5	CHECK STOP SWITCH OPERATION		
	• Access stop switch.	Yes ▶	GO to **SL6.**
	• Depress brake pedal.	No ▶	SERVICE / REPLACE stop switch.
	• Measure resistance between the GY wire and the W / GN wire at the switch.		
	• Is the resistance less than 5 ohms?		
SL6	CHECK SUPPLY TO BULBS		
	• Access the stoplamp bulbs.	Yes ▶	GO to **SL7.**
	• Key OFF.	No ▶	SERVICE / REPLACE W / GN wire.
	• Measure resistance of the W / GN wire between the switch and the bulbs.		
	• Is the resistance less than 5 ohms?		

DIAGNOSIS AND TESTING (Continued)

TEST STEP		RESULT ▶	ACTION TO TAKE
SL7	CHECK STOPLAMP BULBS		
	• Access stoplamp bulbs. • Measure resistance of the BK wires between the bulbs and ground. • Is the resistance less than 5 ohms?	Yes ▶ No ▶	GO to **SL8.** SERVICE / REPLACE BK ground circuit.
SL8	CHECK STOPLAMP BULBS		
	• Access stoplamp bulbs. • Key ON. • Depress brake pedal. • Are all the bulbs on?.	Yes ▶ No ▶	RETURN to condition chart. REPLACE bulbs that do not illuminate.

TEST STEP		RESULT ▶	ACTION TO TAKE
EL1	CHECK MAIN FUSE		
	• Access main fuse panel. • Is the main fuse OK?	Yes ▶ No ▶	GO to **EL4.** GO to **EL2.**
EL2	CHECK SYSTEM		
	• Replace main fuse. • Key ON. • Did main fuse blow again?	Yes ▶ No ▶	GO to **EL3.** GO to **EL4.**
EL3	CHECK FOR SHORT TO GROUND		
	• Key OFF. • Disconnect W / R wire from fuse panel. • Measure resistance between one end of the W / R wire and ground. • Is the resistance less than 5 ohms?	Yes ▶ No ▶	SERVICE / REPLACE W / R wire. SERVICE / REPLACE headlamp switch.
EL4	CHECK SUPPLY TO HEADLAMP SWITCH		
	• Key ON. • Measure voltage on W / R wire at the headlamp switch. • Is the voltage greater than 10 volts?	Yes ▶ No ▶	GO to **EL5.** SERVICE / REPLACE W / R wire.
EL5	CHECK HEADLAMP SWITCH		
	• Key OFF. • Access headlamp switch. • Press headlamp switch to first and then second position. • Measure resistance of the W / R wire at the switch to the W / GN wire at the other end of the switch. • Is the resistance less than 5 ohms?	Yes ▶ No ▶	GO to **EL6.** SERVICE / REPLACE headlamp switch.
EL6	CHECK SUPPLY TO TAIL FUSE		
	• Access interior fuse panel. • Measure the resistance of the W / GN wire between the headlamp switch and the tail fuse. • Is the resistance less tha 5 ohms?	Yes ▶ No ▶	GO to **EL7.** SERVICE / REPLACE W / GN wire.

DIAGNOSIS AND TESTING (Continued)

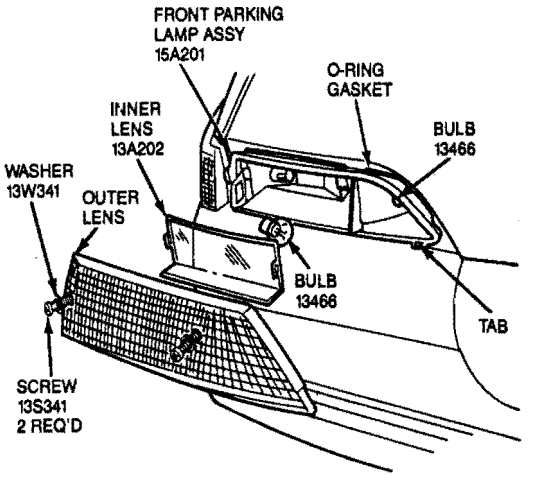
TEST STEP		RESULT ▶	ACTION TO TAKE
EL7	CHECK TAIL FUSE		
	• Check 15 amp tail fuse.	Yes ▶	GO to **EL10.**
	• Is the fuse good?	No ▶	GO to **EL8.**
EL8	CHECK SYSTEM		
	• Replace tail fuse.	Yes ▶	GO to **EL9.**
	• Key ON.	No ▶	GO to **EL10.**
	• Did fuse blow again?		
EL9	CHECK FOR SHORT TO GROUND		
	• Key OFF.	Yes ▶	SERVICE/REPLACE wire.
	• Access lamps.	No ▶	SERVICE/REPLACE bulbs.
	• Disconnect R/BK and W wires from 15 amp tail fuse.		
	• Measure resistance of the wire to ground.		
	• Is the resistance less than 5 ohms?		
EL10	CHECK BULB GROUNDS		
	• Access bulbs.	Yes ▶	GO to **EL11.**
	• Measure resistance of the BK wires between the bulbs and ground.	No ▶	SERVICE/REPLACE BK ground circuit.
	• Is the resistance less than 5 ohms?		
EL11	CHECK SUPPLY TO BULBS		
	• Measure resistance of the R/BK and W wires from the tail fuse to the bulbs.	Yes ▶	GO to **EL12.**
	• Is the resistance less than 5 ohms?	No ▶	SERVICE/REPLACE wire in question.
EL12	CHECK BULBS		
	• Key ON.	Yes ▶	RETURN to condition chart.
	• Press headlamp switch into each position.	No ▶	REPLACE blown bulbs.
	• Do the exterior lamps work?		

REMOVAL AND INSTALLATION

Parking Lamp/Bulb, Front

Removal

1. Remove screws, outer lens and inner lens from front parking lamp assembly.
2. Remove bulb(s).
3. If necessary, disconnect wiring harness and remove parking lamp body.



Installation

NOTE: Make sure O-ring gasket is in proper position on lamp assembly.

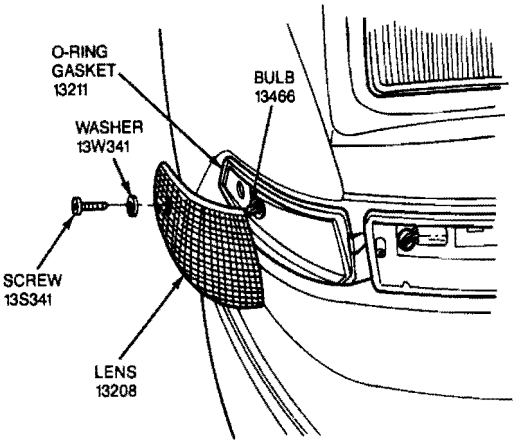
1. If removed, connect wiring and place front parking lamp body into position.
2. Install bulb(s) if removed.
3. Position O-ring gasket into groove.
4. Install inner lens.
5. Engage tab at inboard side of outer lens and install retaining screws.

Side Marker Lamp/Bulb, Front

Removal

NOTE: The front parking lamp outer retaining screw must be removed before the front side marker lamp.

1. Remove front parking lamp outer retaining screw.
2. Remove screws and front marker lamp lens.
3. Remove bulb.
4. Remove lamp socket and front marker lamp if necessary.



Installation

NOTE: Make sure that O-ring gasket is in proper position on lamp assembly.

1. Install lamp socket into front marker body, if removed.
2. Install bulb.
3. Make sure O-ring gasket is in groove.
4. Engage tab at front of lens. Install lens with two screws.
5. Install front parking lamp outer retaining screw.

Combination Lamp, Rear

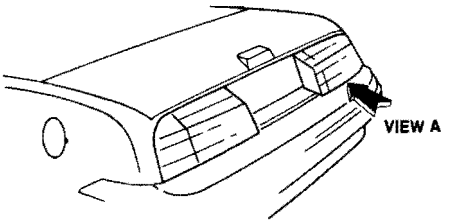
Removal

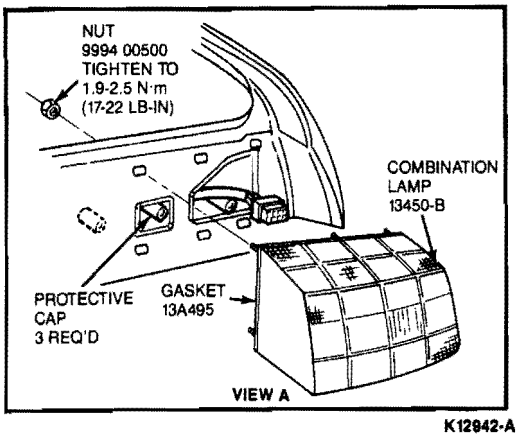
CAUTION: Take care not to damage the gasket located behind the lamp assembly. A new gasket must be installed if the existing gasket is damaged.

1. Remove protective caps from lower studs.
2. Remove nuts from studs on combination lamp assembly and slide assembly slightly forward.
3. Disconnect electrical connector from combination lamp assembly.

REMOVAL AND INSTALLATION (Continued)

4. Remove combination lamp assembly from vehicle.





Installation

NOTE: Make sure that gasket is in proper position on lamp assembly.

1. Position combination lamp assembly onto vehicle.
2. Install nuts onto studs and tighten to 2 N·m (18 lb-in).
3. Install protective caps on lower studs.
4. Connect electrical connector to lens assembly.
5. Check bulbs for proper operation.

Combination Lamp Bulb Replacement

Removal and Installation

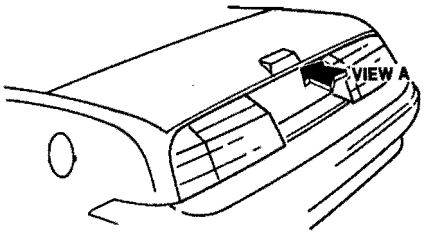
1. Rotate bulb socket one quarter of a turn.
2. Remove socket from lamp body.
3. Remove bulb(s).
4. Install bulb socket.
5. Check bulb for proper operation.

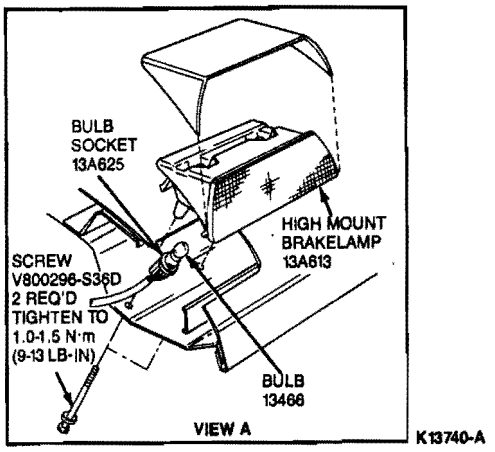
Hi-Mount Brakelamp

Removal

1. From underside of deck lid, remove two screws retaining lamp to deck lid.

   CAUTION: Take care not to damage gasket underneath lamp.
2. Slide lamp assembly forward to disengage hooks from opening edge, remove lamp assembly.
3. Twist bulb socket and remove from lamp housing.
4. Remove bulb from bulb socket.





Installation

1. Install bulb into socket.
2. Install bulb socket into housing.
3. Check bulb for proper operation.
4. Install gasket and lamp housing to underside of deck lid with two retaining screws.

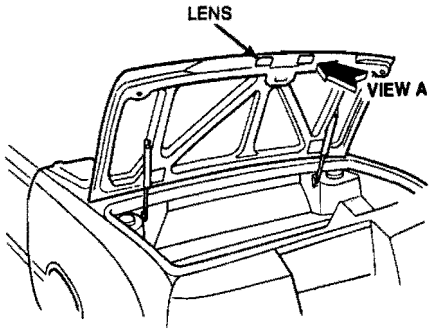
License Plate Lamp Bulb

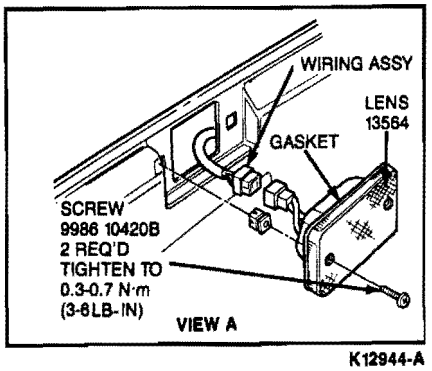
Removal

1. Remove screws from license plate lamp.
2. Pull lens outward, remove bulb socket from lamp by twisting.
3. Remove bulb.

REMOVAL AND INSTALLATION (Continued)

4. Remove gasket if necessary.





K12944-A

Installation

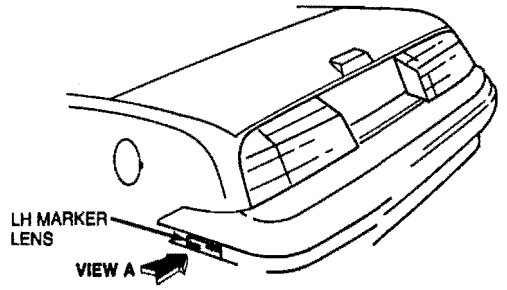
1. Install bulb into socket.
2. Check bulb for proper operation.
3. Install socket into lamp.
4. Install lamp, gasket and screws.

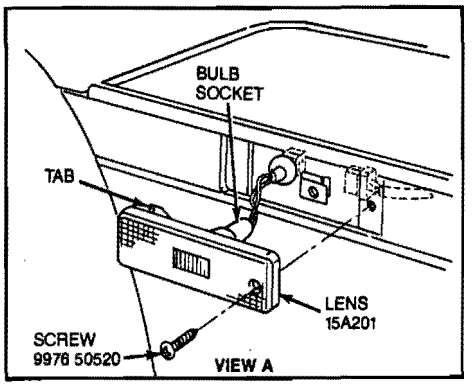
Side Marker Lamps, Rear

Removal

1. Remove one screw and pull lens out from rear to remove.
2. Twist bulb socket and remove from lamp.

3. Remove bulb by pulling bulb outward.





K12945-A

Installation

1. Install bulb into socket.
2. Install socket into lamp.
3. Check operation of bulb.
4. Engage tab at front of lamp and install screw to secure lamp.

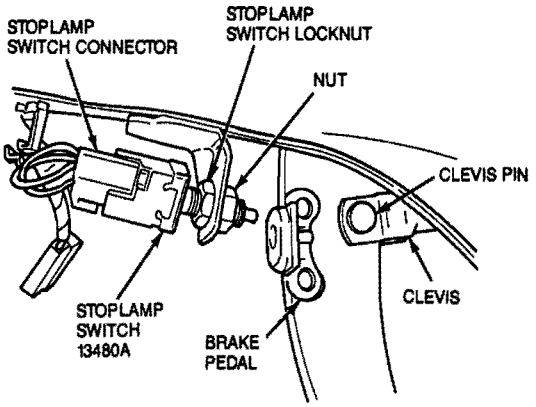
Stoplamp Switch

Removal

1. Disconnect electrical connector from stoplamp switch.

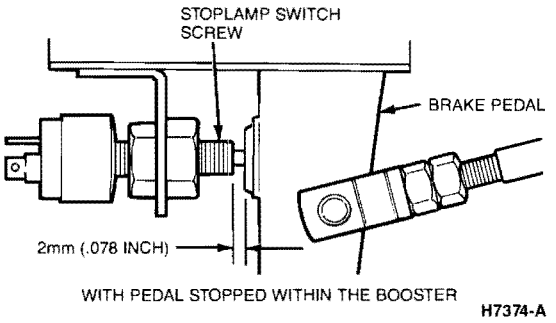
REMOVAL AND INSTALLATION (Continued)

2. Remove nut securing stoplamp switch and remove switch.



Installation

1. Install switch and secure with nut. Do not tighten.
2. Check distance from the brake pedal to the stoplamp switch screw. The distance should be 2mm (0.078 inch).



3. If necessary, adjust the distance by rotating the stoplamp switch. Rotate the switch until distance is within specification.
4. Tighten locknut.
5. Connect electrical connector.
6. Check operation of stoplamp switch and rear lamps.

SECTION 32-40 Turn Signal and Hazard Flasher

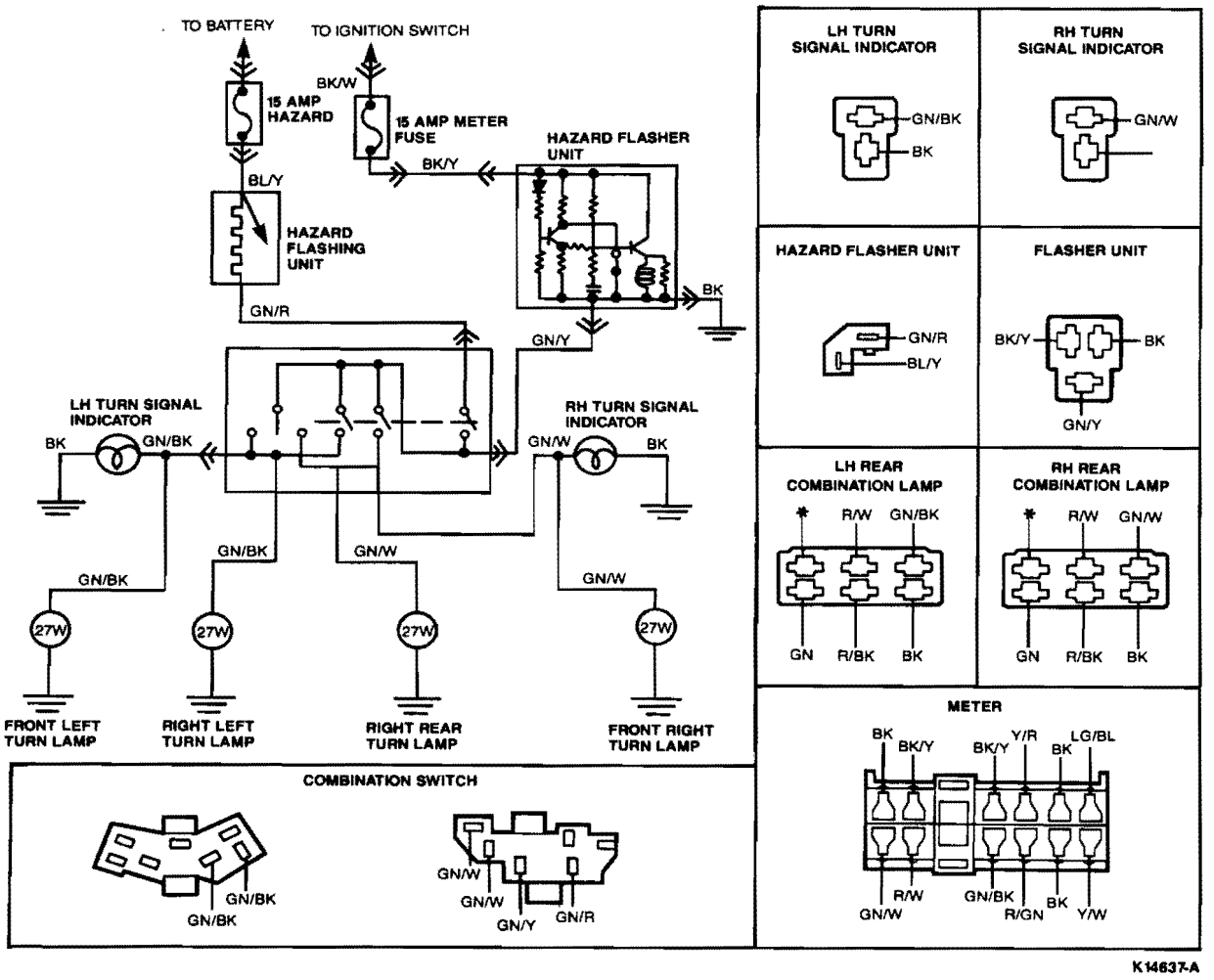
VEHICLE APPLICATION

Capri.

DESCRIPTION

The turn signal/hazard flasher/high beam switch is a multi-function switch which incorporates the windshield wiper switch, the turn signal switch, high beam switch, flash-to-pass switch and the hazard flasher switch. The wiper switch and turn signal/hazard flasher/high beam switch are replaced as an assembly. This assembly is located on the steering column. The steering column must be lowered to access the switch.

DESCRIPTION (Continued)



DIAGNOSIS AND TESTING

Visual Inspection

1. Visually inspect the components. Check for:
   a. Blown fuses.
   b. Damage to wiring harness.
   c. Corroded connectors.
   d. Blown bulbs.
2. Shake the wiring harness between the turn signal lamps and the turn signal switch. Look for obvious signs of shorts, opens or damage.
3. Check to see if horn system works before proceeding. If not, check the MAIN fuse in the main fuse panel.
4. If fault is not visually evident, verify condition and refer to the following chart.

CONDITION	POSSIBLE SOURCE	ACTION
• Turn Signal Lamps Do Not Operate in Either Direction	• Fuse.	• Go to **L1.**
	• Flasher unit.	• Go to **L7.**
	• Turn signal switch.	• Go to **L9.**
	• Circuit.	• Go to **L4.**
	• Bulbs.	• Go to **L12.**

DIAGNOSIS AND TESTING (Continued)

CONDITION	POSSIBLE SOURCE	ACTION
• Turn Signal Lamps Work Only in One Direction	• Turn signal switch. • Circuit. • Bulbs.	• Go to **L9.** • Go to **L4.** • Go to **L12.**
• Turn Signal Lamps Stay On Continuously	• Turn signal switch. • Circuit.	• Go to **L9.** • Go to **L4.**
• Hazard Warning Lamps Do Not Work	• Hazard warning switch. • Flasher unit. • Turn signal switch. • Circuit. • Bulbs.	• Go to **L4.** • Go to **L7.** • Go to **L9.** • Go to **L4.** • Go to **L12.**
• Hazard Warning Lamps Run Continuously	• Hazard warning switch. • Circuit.	• Go to **L4.** • Go to **L4.**
• Hazard and/or Turn Signal Lamps Do Not Flash	• Flasher unit. • Circuit.	• Go to **L7.** • Go to **L4.**

	TEST STEP	RESULT ▶	ACTION TO TAKE
L1	CHECK HAZARD FUSE		
	• Access fuse panel. • Check 15 amp hazard fuse. • Is the fuse OK?	Yes ▶ No ▶	GO to **L4.** GO to **L2.**
L2	CHECK SYSTEM		
	• Replace fuse. • Key ON. • Did fuse blow again?	Yes ▶ No ▶	GO to **L3.** GO to **L7.**
L3	CHECK FOR SHORTS TO GROUND		
	• Key OFF. • Disconnect BK/Y wire from fuse panel. • Measure resistance between one end of BK/Y wire and ground. • Is the resistance less than 5 ohms?	Yes ▶ No ▶	SERVICE/REPLACE wire. SERVICE/REPLACE flasher unit.
L4	CHECK POWER TO HAZARD SWITCH		
	• Access hazard warning switch. • Key ON. • Measure voltage of LY wire at the hazard warning switch. • Is voltage greater than 10 volts?	Yes ▶ No ▶	GO to **L5.** SERVICE/REPLACE wire.
L5	CHECK LEAD TO TURN SIGNAL SWITCH		
	• Key OFF. • Access hazard warning switch. • Measure resistance of GN/Y wire between the hazard warning switch and the turn signal switch. • Is the resistance less than 5 ohms?	Yes ▶ No ▶	GO to **L6.** SERVICE/REPLACE wire.

DIAGNOSIS AND TESTING (Continued)

	TEST STEP	RESULT ▶	ACTION TO TAKE
L6	CHECK FLASHER WARNING SWITCH FOR PROPER OPERATION		
	• Key ON. • Access flasher warning switch. • Disconnect GN/R wire from switch. • Turn on hazard warning switch. • Measure resistance between the LY wire and the GN/R wire at the switch. • Is the resistance less than 5 ohms?	Yes ▶ No ▶	GO to **L7.** SERVICE/REPLACE hazard warning switch.
L7	CHECK POWER LEAD TO FLASHER UNIT		
	• Key OFF. • Access flasher unit. • Measure resistance of BK/Y wire between the hazard fuse and the flasher unit. • Is the resistance less than 5 ohms?	Yes ▶ No ▶	GO to **L8.** SERVICE/REPLACE BK/Y wire.
L8	CHECK FLASHER UNIT GROUND		
	• Access flasher unit. • Measure resistance of the BK wire between the flasher unit and ground. • Is the resistance less than 5 ohms?	Yes ▶ No ▶	GO to **L9.** SERVICE/REPLACE wire.
L9	CHECK LEAD TO TURN SIGNAL SWITCH		
	• Access turn signal switch. • Measure resistance of the GN/Y wire between the flasher unit and the turn signal switch. • Is the resistance less than 5 ohms?	Yes ▶ No ▶	GO to **L10.** SERVICE/REPLACE GN/Y wire.
L10	CHECK FLASHER UNIT FOR PROPER OPERATION		
	• Access the flasher unit. • Disconnect the GN/Y wire at the flasher unit. • Key ON. • With a test lamp, connect one of the test lamps to ground and the other end to GN/Y terminal at the flasher unit. • Does the test lamp flash on and off in constant cycles?	Yes ▶ No ▶	GO to **L11.** SERVICE/REPLACE flasher unit.
L11	CHECK LEADS TO TURN LAMPS		
	• Access turn lamps. • Measure resistance of the GN/W wire between the turn signal switch and the following lamps: Front left turn lamp Front right turn lamp Rear left turn lamp Rear right turn lamp LH turn signal indicator RH turn signal indicator • Are the resistances less than 5 ohms?	Yes ▶ No ▶	GO to **L12.** SERVICE/REPLACE wire in question.

DIAGNOSIS AND TESTING (Continued)

	TEST STEP	RESULT ▶	ACTION TO TAKE
L12	CHECK TURN LAMP GROUNDS		
	• Access turn lamps. • Measure resistance of the BK wire between ground and the following lamps: Front left turn lamp Front right turn lamp Rear left turn lamp Rear right turn lamp LH turn signal indicator RH turn signal indicator • Are the resistances less than 5 ohms?	Yes ▶ No ▶	GO to **L13.** SERVICE / REPLACE wire in question.
L13	CHECK TURN LAMPS		
	• Access the turn lamps. • Disconnect the GN / W wires from the terminals of the following lamp bulbs. Apply 12 volts to the following lamp bulbs: Front left turn lamp Front right turn lamp Rear left turn lamp Rear right turn lamp RH turn indicator lamp LH turn indicator lamp • Do all the turn lamps illuminate?	Yes ▶ No ▶	GO to **L14.** REPLACE any turn lamp that does not illuminate.
L14	CHECK SYSTEM (TURN SIGNAL SWITCH)		
	• Key ON. • Put turn signal switch to right and then left position. • Does turn signal system operate correctly?	Yes ▶ No ▶	RETURN to Condition Chart. SERVICE / REPLACE turn signal switch.

REMOVAL AND INSTALLATION

Turn Signal / Hazard Flasher / High Beam Switch Assembly

Removal

1. Disconnect negative battery terminal.
2. Remove center trim panel and access cover beneath steering column.
3. Remove lower steering column shroud.
4. Remove column upper retaining bolts.

   NOTE: Steering column will rest on instrument panel brace.

   CAUTION: Ensure no wires are pinched when lowering steering column.
5. Remove two switch retaining screws and remove switch.
6. Grasp switch and lever firmly and pull lever out of switch.
7. Disconnect electrical connectors from switch.

Installation

1. Align key with slot and install lever in switch assembly.
2. Connect connectors to switch assembly.
3. Position switch on steering column and install retaining screws.
4. Make sure column support bracket is in position. Raise column into position and install retaining bolts. Tighten to 23-31 N·m (17-23 lb-ft).
5. Install lower column shroud.
6. Install access cover and trim panel.
7. Connect negative battery terminal.
8. Check for proper operation.

REMOVAL AND INSTALLATION (Continued)

Wiper Switch and Turn Signal/High Beam Lever

Removal

1. Remove center trim panel and access cover below steering column.
2. Remove lower steering column shroud.
3. Disconnect harness connector for wiper switch and remove from retaining clip.
4. Firmly grasp switch and lever and pull out to remove.

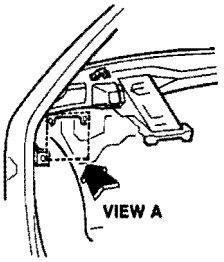
Installation

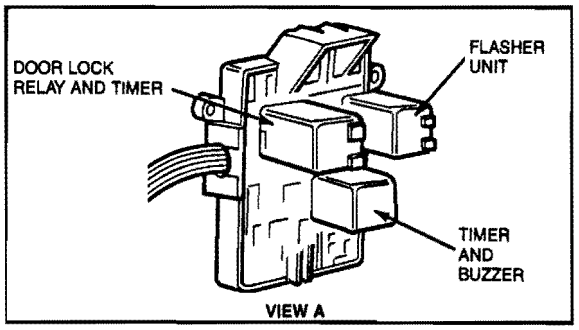
1. Install lever to switch. Make sure it is fully seated.
2. Route switch harness through retainer and connect connector.
3. Install lower steering column shroud.
4. Install access panel and trim cover.

Turn Signal Flasher Unit

Removal and Installation

1. Pull turn signal flasher out of relay panel located above fuse panel.
2. Install the new turn signal flasher by pushing it into the relay panel.





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Hazard Flasher Unit

Removal and Installation

1. Pull hazard flasher out of connector located inside LH bottom edge of instrument panel.
2. Install new hazard flasher into connector.

SPECIFICATIONS

TORQUE SPECIFICATIONS

Description	Nem	Lb-Ft
Steering Column Upper Retaining Bolts	23-31	17-23

SECTION 32-60 Lamps, Interior

VEHICLE APPLICATION

Capri.

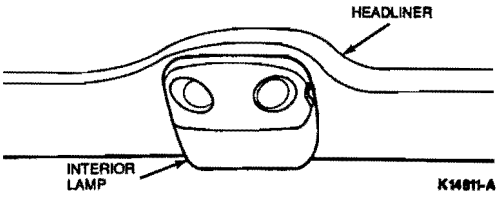
DESCRIPTION AND OPERATION

Courtesy lamps are provided under both sides of the instrument panel.

Two map lamps are located at the front of the dome lamp inside the optional hardtop. The map lamps are operated as individual units. The switches controlling them are on the outboard sides of the dome lamp assembly.

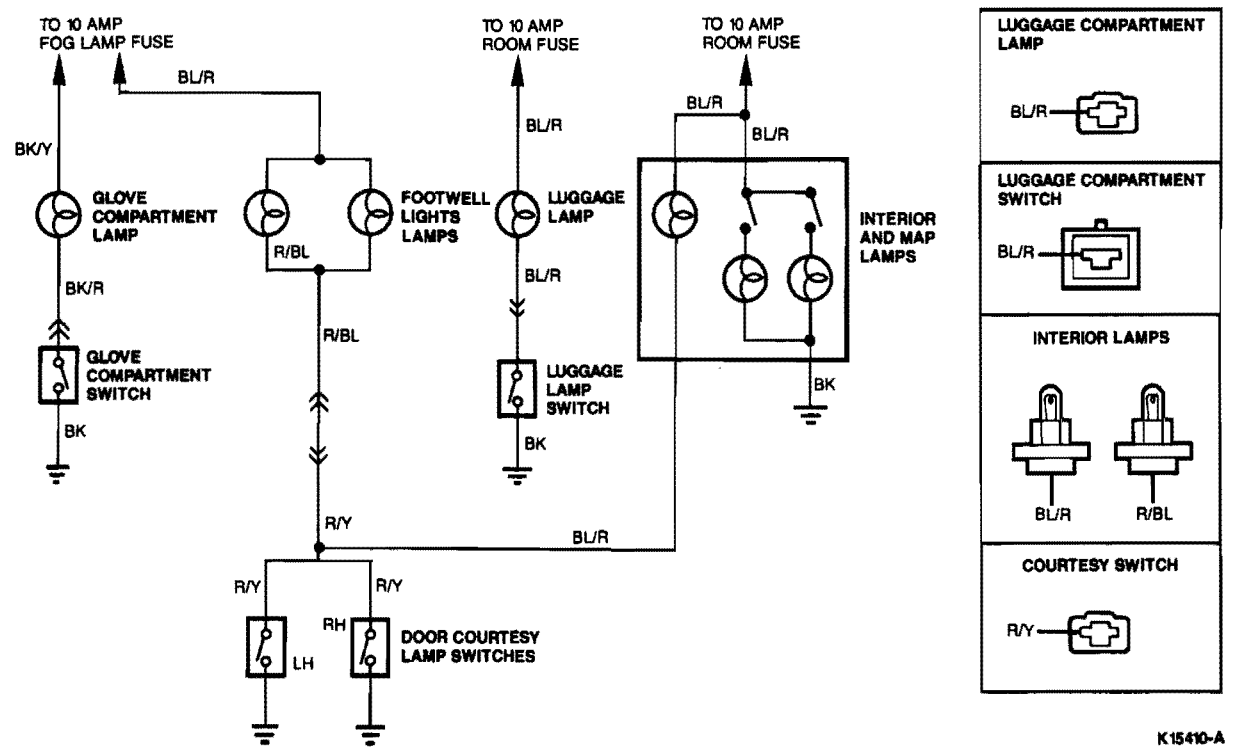
The courtesy lamps and dome lamp are automatically illuminated when either door is opened.

A cargo lamp is located in the luggage compartment and is illuminated when the deck lid is raised. The switch is part of the luggage compartment latch.



The glove compartment lamp is located in the glove compartment and is illuminated when the glove compartment door is opened.

DESCRIPTION AND OPERATION (Continued)



DIAGNOSIS AND TESTING

Visual Inspection

1. Visually inspect the components. Check for:
   a. Blown 10 amp room fuse.
   b. Damage to wiring harness.
   c. Corroded connectors.
   d. Blown lamps.
2. Shake the wiring harness between the lamps and the interior fuse panel. Look for obvious signs of shorts, opens or damage.
3. Check to see if horn system works before proceeding. If not, check the BTN fuse in the main fuse panel.
4. If fault is not visually evident, verify condition and refer to the following chart.

CONDITION	POSSIBLE SOURCE	ACTION
• Glove Compartment Lamp Does Not Light	• Fuse. • Glove compartment lamp. • Glove compartment switch. • Circuit.	• Go to **IL1.** • Go to **GB2.** • Go to **GB3.** • Go to **GB1.**
• Glove Compartment Lamp Does Not Turn Off	• Glove compartment switch . • Circuit.	• Go to **GB3.** • Go to **GB1.**
• Footwell Lamps Do Not Light When Door is Open	• Fuse. • Footwell lamps. • Door courtesy lamp switch. • Circuit.	• Go to **IL1.** • Go to **FW2.** • Go to **FW4.** • Go to **FW1.**
• Footwell Lamps Do Not Turn Off	• Door courtesy lamp switch. • Circuit.	• Go to **FW4.** • Go to **FW1.**

DIAGNOSIS AND TESTING (Continued)

CONDITION	POSSIBLE SOURCE	ACTION
• Luggage Lamp Does Not Light	• Fuse. • Luggage lamp. • Luggage lamp switch. • Circuit.	• Go to **IL1.** • Go to **LG2.** • Go to **LG5.** • Go to **LG1.**
• Luggage Lamp Does Not Turn Off	• Luggage lamp switch. • Circuit.	• Go to **LG5.** • Go to **LG1.**
• Dome Lamp Does Not Light (Optional Hardtop)	• Fuse. • Dome lamp and map lamp switch. • Dome lamp. • Door courtesy lamp switch. • Circuit.	• Go to **IL1.** • Go to **IS4.** • Go to **IS3.** • Go to **FW4.** • Go to **IS1.**
• Dome Lamp Does Not Turn Off	• Door courtesy lamp switch. • Circuit.	• Go to **FW4.** • Go to **IS1.**
• Map Lamps Do Not Light (Optional Hardtop)	• Fuse. • Map lamp. • Map lamp switch. • Circuit.	• Go to **IL1.** • Go to **IS3.** • Go to **IS4.** • Go to **IS1.**
• Map Lamps Do Not Turn Off (Optional Hardtop)	• Map lamp switch. • Circuit.	• Go to **IS4.** • Go to **IS1.**

TEST STEP		RESULT ▶	ACTION TO TAKE
IL1	CHECK ROOM FUSE		
	• Access interior fuse panel. • Check the 10 amp room fuse. • Is the fuse good?	Yes ▶ No ▶	GO to **IL4.** GO to **IL2.**
IL2	CHECK SYSTEM		
	• Replace 10 amp room fuse. • Key ON. • Open and close door. • Did fuse blow again?	Yes ▶ No ▶	GO to **IL3.** GO to **IL4.**
IL3	CHECK FOR SHORT TO GROUND		
	• Key OFF. • Disconnect the BL / R wire from the fuse panel. • Measure the resistance of the BL / R wire to ground. • Is the resistance less than 5 ohms?	Yes ▶ No ▶	SERVICE BL / R wire. GO to **IL4.**
IL4	SYMPTOM MENU		
	• Glove compartment lamp does not work properly. • Footwell lamps do not work properly. • Luggage lamp does not work properly. • Dome and map lamps do not work properly.	▶ ▶ ▶ ▶	GO to **GB1.** GO to **FW1.** GO to **LG1.** GO to **IS1.**

TEST STEP		RESULT ▶	ACTION TO TAKE
GB1	CHECK POWER TO GLOVE COMPARTMENT LAMP		
	• Key ON. • Measure the voltage on the BK / Y wire at the glove compartment lamp. • Is the voltage greater than 10 volts?	Yes ▶ No ▶	GO to **GB2.** SERVICE BK / Y wire.

DIAGNOSIS AND TESTING (Continued)

	TEST STEP	RESULT ▶	ACTION TO TAKE
GB2	CHECK GLOVE COMPARTMENT LAMP		
	• Ground the BK/R wire of the glove compartment lamp.	Yes ▶	GO to **GB3.**
	• Does the lamp turn on?	No ▶	REPLACE glove compartment lamp.
GB3	CHECK SUPPLY TO GLOVE COMPARTMENT SWITCH		
	• Key OFF.	Yes ▶	GO to **GB4.**
	• Locate glove compartment switch connector.	No ▶	SERVICE BK/R wire.
	• Measure the resistance of the BK/R wire between the glove compartment lamp and the glove compartment switch.		
	• Is the resistance less than 5 ohms?		
GB4	CHECK GLOVE COMPARTMENT SWITCH GROUND		
	• Measure resistance of the BK wire from the glove compartment switch to ground.	Yes ▶	GO to **GB5.**
	• Is the resistance less than 5 ohms?	No ▶	SERVICE BK wire.
GB5	CHECK GLOVE COMPARTMENT SWITCH		
	• Key ON.	Yes ▶	RETURN to condition chart.
	• Open the glove compartment door.	No ▶	REPLACE glove compartment door switch.
	• Does the glove compartment door lamp turn on?		
	• Close the glove compartment door.		
	• Does the glove compartment door lamp turn off?		

	TEST STEP	RESULT ▶	ACTION TO TAKE
FW1	CHECK POWER SUPPLY TO FOOTWELL LAMPS		
	• Key ON.	Yes ▶	GO to **FW2.**
	• Locate footwell lamp connectors.	No ▶	SERVICE BL/R wire.
	• Measure voltage on the BL/R wire at the footwell lamp connector.		
	• Is the voltage greater than 10 volts?		
FW2	CHECK FOOTWELL LAMPS		
	• Ground the R/BL wire at the footwell lamp connector.	Yes ▶	GO to **FW3.**
	• Do the footwell lamps turn on?	No ▶	REPLACE footwell lamps.

DIAGNOSIS AND TESTING (Continued)

	TEST STEP	RESULT ▶	ACTION TO TAKE
FW3	CHECK LEADS BETWEEN LAMPS AND DOOR SWITCHES		
	• Key OFF.	Yes ▶	GO to **FW4.**
	• Locate the door courtesy lamp switch connectors.	No ▶	SERVICE wires between the lamps and switch.
	• Measure the resistances between the R/BL wire at the lamps to the R/Y wire at the door courtesy lamp switches.		
	• Is the resistance less than 5 ohms?		
FW4	CHECK DOOR COURTESY LAMP SWITCHES		
	• Locate the door courtesy lamp switch connectors.	Yes ▶	RETURN to condition chart.
	• Open each of the doors.	No ▶	REPLACE door switches.
	• Measure the resistances between the R/Y and ground at the switch.		
	• Is the resistance less than 5 ohms?		

	TEST STEP	RESULT ▶	ACTION TO TAKE
LG1	CHECK POWER SUPPLY TO LUGGAGE LAMP		
	• Key ON.	Yes ▶	GO to **LG2.**
	• Locate the luggage lamp connector.	No ▶	SERVICE BL/R wire.
	• Measure the voltage on the BL/R wire at the lamp.		
	• Is the voltage greater than 10 volts?		
LG2	CHECK LUGGAGE LAMP		
	• Ground the BL/R wire at the other end of the lamp connector.	Yes ▶	GO to **LG3.**
	• Does the luggage lamp turn on?	No ▶	REPLACE luggage lamp.
LG3	CHECK LEAD BETWEEN LUGGAGE LAMP AND LUGGAGE LAMP SWITCH		
	• Key OFF.	Yes ▶	GO to **LG4.**
	• Locate the luggage lamp switch connector.	No ▶	SERVICE BL/R wire.
	• Measure the resistance of the BL/R through the BL wire between the luggage lamp and the luggage lamp switch.		
	• Is the resistance less than 5 ohms?		
LG4	CHECK LUGGAGE LAMP SWITCH GROUND		
	• Measure the resistance of the BK wire between the luggage lamp switch and ground.	Yes ▶	GO to **LG5.**
	• Is the resistance less than 5 ohms?	No ▶	SERVICE BK wire.
LG5	CHECK LUGGAGE LAMP SWITCH		
	• Open the luggage compartment or back hatch.	Yes ▶	RETURN to condition chart.
	• Does the luggage lamp turn on?	No ▶	REPLACE luggage lamp switch.

DIAGNOSIS AND TESTING (Continued)

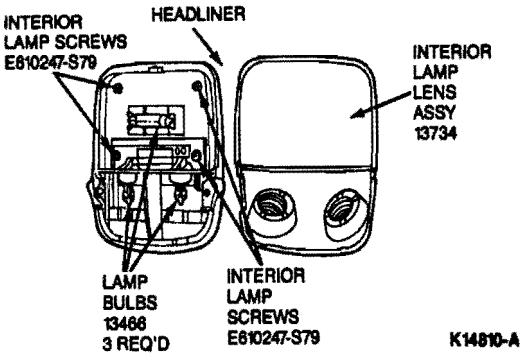
TEST STEP		RESULT ▶	ACTION TO TAKE
IS1	CHECK POWER SUPPLY TO DOME AND MAP LAMPS		
	• Key ON. • Locate the dome and map lamp connectors. • Measure the voltage on the BL / R wire at the dome and map lamps. • Is the voltage greater than 10 volts?	Yes ▶ No ▶	GO to **IS2.** SERVICE BL / R wire.
IS2	CHECK DOME AND MAP LAMP GROUND		
	• Key OFF. • Measure the resistance of the BK wire between the dome and map lamp and ground. • Is the resistance less than 5 ohms?	Yes ▶ No ▶	GO to **IS3.** SERVICE BK wire.
IS3	CHECK DOME AND MAP LAMPS		
	• Disconnect the dome and map lamps. • Apply 12 volts to one terminal and ground the other terminal. • Do the lamps turn on?	Yes ▶ No ▶	GO to **IS4.** REPLACE lamp(s).
IS4	CHECK MAP LAMP SWITCH		
	• Reconnect the dome and map lamps. • Turn the map lamp on and off. • Does the map lamp turn on and off respectively?	Yes ▶ No ▶	GO to **IS5.** REPLACE map lamp switches.
IS5	CHECK LEAD BETWEEN DOME LAMP AND DOOR SWITCHES		
	• Access the door courtesy lamp switches. • Measure the resistance of the R / Y wire between the dome lamp and the door switches. • Is the resistance less than 5 ohms?	Yes ▶ No ▶	GO to **FW4.** SERVICE R / Y wire.

REMOVAL AND INSTALLATION

Lamp, Dome

Removal

1. Squeeze the front and rear sides of the dome lamp lens to disengage retaining tangs.
2. Remove lens.
3. Remove bulb(s) as required.
4. Remove screws retaining lamp assembly to headliner / roof.
5. Disconnect electrical connector.



Installation

1. Connect wiring connector to dome lamp.
2. Install dome lamp assembly to hardtop with screws.
3. Install bulb(s).

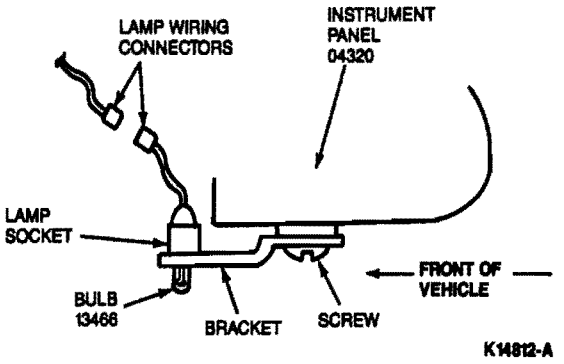
REMOVAL AND INSTALLATION (Continued)

4. Check operation of dome lamp assembly.
5. Snap lens onto lamp.

Lamps, Courtesy

Removal

1. Remove bulb if necessary.
2. Disconnect lamp wiring connector.
3. Twist lamp socket and remove from bracket.
4. If necessary, remove screw retaining lamp bracket to underside of instrument panel.



Installation

1. Position lamp bracket and secure with screw.
2. Insert socket into bracket and twist to secure.
3. Connect lamp wiring.
4. Install bulb into socket.
5. Check lamp for proper operation.

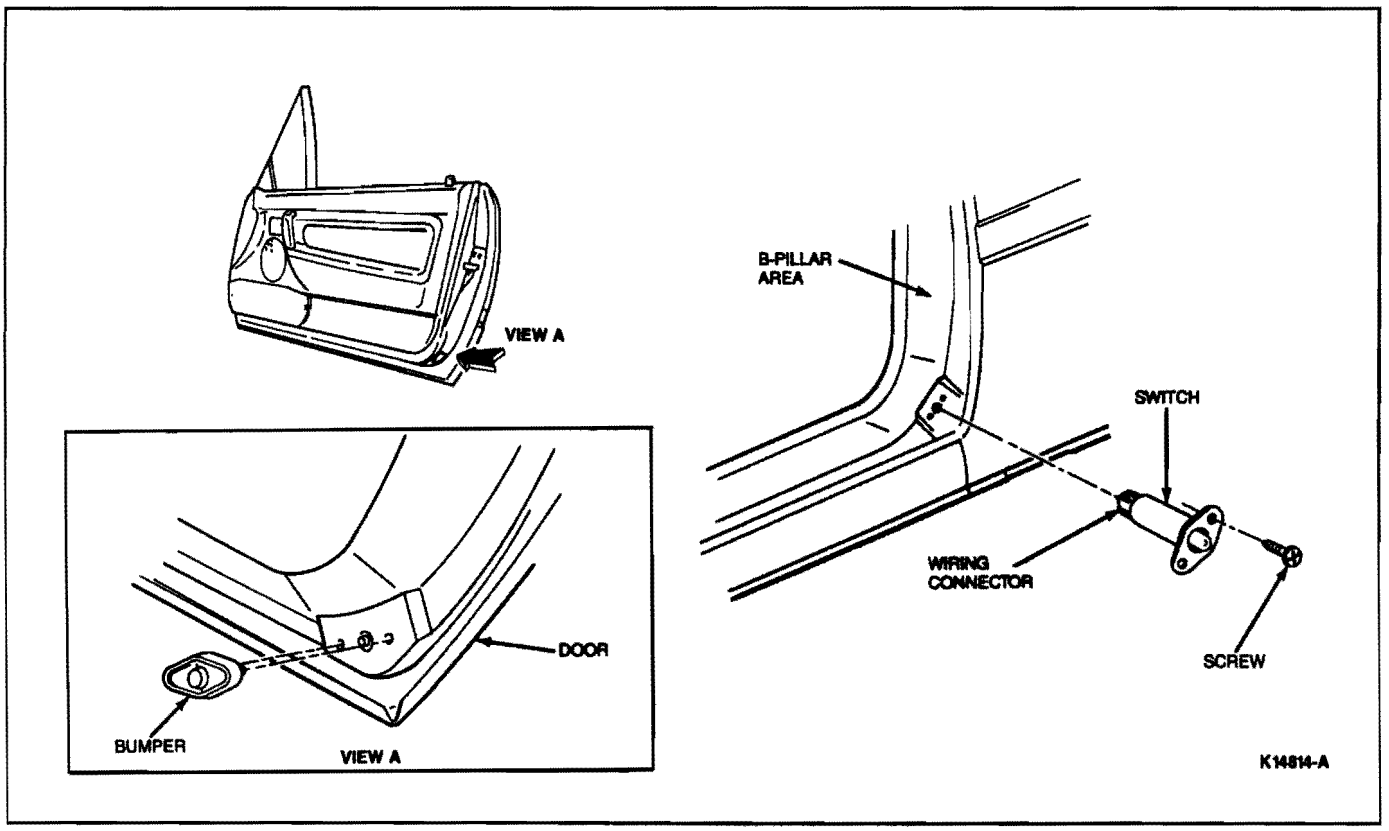
Door Switch

NOTE: There is a bumper located on the lower rear edge of the inside door. It is used to compress the door switch when the door is closed. Be sure that this bumper is attached and in good condition to ensure proper operation of the door switch.

Removal

1. Remove screws securing door switch to lower "B" pillar area.
2. Pull switch out of "B" pillar.
3. Disconnect wiring connector from switch and remove switch.

REMOVAL AND INSTALLATION (Continued)



Installation

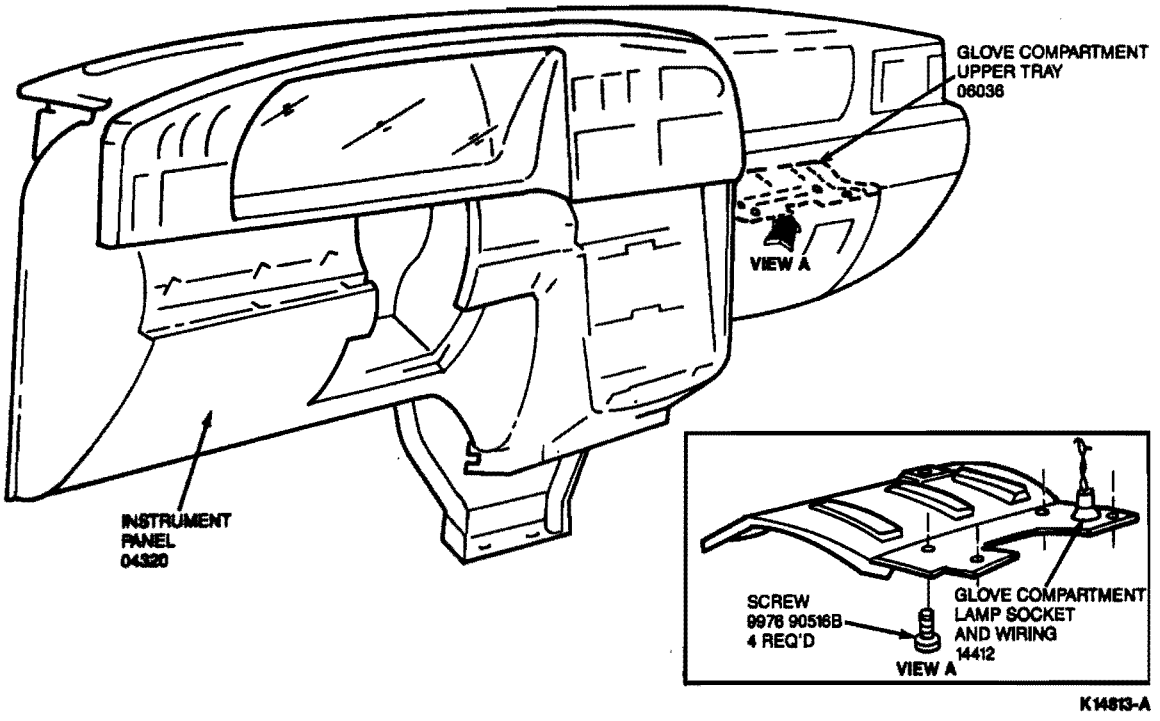
1. Connect switch wiring connector.
2. Position switch into door and secure with screws.
3. Open and close door to ensure proper operation of interior lamps.

Lamp/Bulb, Glove Compartment

Removal

1. Remove bulb if necessary.
2. Open glove compartment door and squeeze sides in to allow door to open fully.
3. Remove five screws securing upper glove compartment tray assembly.
4. Lower tray and squeeze lamp socket retainers to remove.
5. Disconnect wiring connector.
6. Remove lamp socket.

REMOVAL AND INSTALLATION (Continued)



Installation

1. Install lamp socket.
2. Connect wiring connector.
3. Install upper glove compartment tray with five screws.
4. Install bulb.
5. Check lamp for proper operation.
6. Install glove compartment back into position.

Lamp, Automatic Transaxle Selector

For removal and installation procedures, refer to Section 17-02.

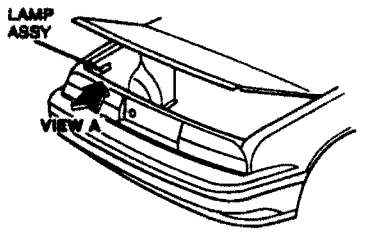
Switch, Headlamp Motor

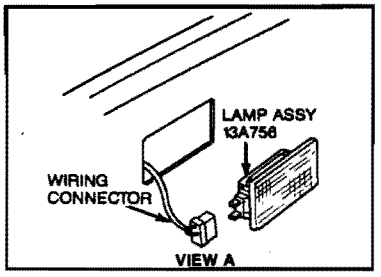
For removal and installation procedures, refer to Section 32-02.

Lens/Bulb, Cargo Lamp

Removal

1. Remove cargo lamp from inner left trim panel using a small screwdriver.
2. Disconnect wiring from lamp assembly.
3. Remove bulb, if necessary.





Installation

1. Check bulb holder for bent tangs and adjust if necessary.
2. Install bulb into holder.
3. Connect wiring to lamp assembly.
4. Insert lamp assembly into inner left trim panel (snaps in).

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