

LAMPS

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LAMP DIAGNOSIS

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GENERAL INFORMATION

GENERAL INFORMATION

LH vehicles use lighting on the interior and exterior of the vehicle for illuminating and indicating purposes. Lighting circuits are protected by fuses or circuit breakers. Lighting circuits require an overload protected power source, on/off device, lamps and body ground to operate properly. Plastic lamp sockets require a wire in the harness to supply body ground to the lamp socket. Lamp sockets that are exposed to moisture should be coated with Mopar® Multi purpose Grease or equivalent to avoid corrosion. If a socket has become corroded, clean socket and bulb base with abrasive fiber sanding pad or metallic bristle brush. Replace sockets and bulbs that are deformed from corrosion that could prevent a continuous body ground.

Wire connectors can make intermittent contact or become corroded. Before coupling wire connectors, inspect the terminals inside the connector. Male terminals should not be bent or disengaged from the insulator. Female terminals should not be sprung open or disengaged from the insulator. Bent and sprung terminals can be repaired using needle nose pliers and pick tool. Corroded terminals appear chalky or green. Corroded terminals should be replaced to avoid recurrence of the problem symptoms. Wire connector terminals should be coated with Mopar® Multi purpose Grease or equivalent to avoid corrosion.

Begin electrical system failure diagnosis by testing related fuses and circuit breakers in the fuse block and engine compartment. Verify that bulbs are in good condition and test continuity of the circuit ground. Refer to Group 8W, Wiring Diagrams, for component location and circuit information.

SAFETY PRECAUTIONS

WARNING: EYE PROTECTION SHOULD BE USED WHEN SERVICING GLASS COMPONENTS. PERSONAL INJURY CAN RESULT.

CAUTION: Do not touch the glass of halogen bulbs with fingers or other possibly oily surface, reduced bulb life will result. Do not use bulbs with higher candle power than indicated in the Bulb Application table at the end of this group. Damage to lamp can result. Do not use fuses, circuit breakers or relays having greater amperage value than indicated on the fuse panel or in the Owners Manual.

When it is necessary to remove components to service another, it should not be necessary to apply excessive force or bend a component to remove it. Before damaging a trim component, verify hidden fasteners or captured edges are not holding the component in place.

DIAGNOSIS AND TESTING

HEADLAMP AND FOG LAMP DIAGNOSIS

When a vehicle experiences problems with the headlamp system, verify the condition of:

- Battery connections
- Charging system
- Headlamp bulbs
- Head lamp relay
- High beam dimmer switch
- Headlamp switch
- Body Control Module
- Wire connectors

Refer to Group 8W, Wiring Diagrams, for component locations and circuit information.

ELECTRONIC DAYTIME RUNNING LIGHT

LH vehicles built for use in Canada are equipped with a Daytime Running Lamp (DRL) system. The DRL system operates the headlamp high beams at reduced power with the headlamp high beam and low beam switch OFF and the ignition switch in the run position. In addition, the park brake must be disengaged and the brake fluid level switch must be open for the headlamps to operate in the DRL mode. The DRL system is controlled by the Daytime Running Lamp Module attached to the Junction Block on the

left side of the instrument panel. The DRL module overrides the headlamp switch when the headlamps are turned OFF. The headlamps operate normally when the headlamps are turned ON.

DAYTIME RUNNING LAMP MODULE

The Daytime Lamp Module is controlled by inputs received from the Parking Brake, Brake Fluid Level Switch, High Beam Headlamp Relay and Low Beam Headlamp. Refer to Group 8W, Wiring Diagrams, for location and circuit information.

HEADLAMP SWITCH

The headlamp switch is located on the upper left side of the instrument panel. Refer to Group 8E, Instrument Panel and Systems, for proper service procedures.

HIGH-BEAM HEADLAMP SWITCH

The high beam headlamp switch is part of the multi-function switch located on the steering column. Refer to Group 8J, Turn Signals and Warning Flashers, for proper service procedures.

HEADLAMP DIAGNOSIS

CONDITION	POSSIBLE CAUSES	CORRECTION
HEADLAMPS ARE DIM WITH ENGINE IDLING OR IGNITION TURNED OFF	1. Loose or corroded battery cables. 2. Loose or worn generator drive belt. 3. Charging system output too low. 4. Battery has insufficient charge. 5. Battery is sulfated or shorted. 6. Poor lighting circuit Z1 ground. 7. Both headlamp bulbs defective.	1. Clean and secure battery cable clamps and posts. 2. Adjust or replace generator drive belt. 3. Test and repair charging system, refer to Group 8A, Battery 4. Test battery state-of-charge, refer to Group 8A, Battery. 5. Load test battery, refer to Group 8A, Battery. 6. Test for voltage drop across Z1 ground locations, refer to Group 8W, Wiring Diagrams. 7. Replace both headlamp bulbs.
HEADLAMP BULBS BURN OUT FREQUENTLY	1. Charging system output too high. 2. Loose or corroded terminals or splices in circuit.	1. Test and repair charging system, refer to Group 8A, Battery. 2. Inspect and repair all connectors and splices, refer to Group 8W, Wiring Diagrams.

DIAGNOSIS AND TESTING (Continued)

CONDITION	POSSIBLE CAUSES	CORRECTION
HEADLAMPS ARE DIM WITH ENGINE RUNNING ABOVE IDLE	1. Charging system output too low. 2. Poor lighting circuit Z1 ground. 3. High resistance in headlamp circuit. 4. Both headlamp bulbs defective.	1. Test and repair charging system, refer to Group 8A, Battery. 2. Test for voltage drop across Z1 ground locations, refer to Group 8W, Wiring Diagrams. 3. Test amperage draw of headlamp circuit. 4. Replace both headlamp bulbs.
HEADLAMPS FLASH RANDOMLY	1. Poor lighting circuit Z1-ground. 2. High resistance in headlamp circuit. 3. Faulty headlamps switch circuit breaker. 4. Loose or corroded terminals or splices in circuit. 5. Loose relay 6. Faulty Body Control Module	1. Test for voltage drop across Z1-ground locations, refer to Group 8W, Wiring Diagrams. 2. Test amperage draw of headlamp circuit. 3. Replace headlamp switch. 4. Inspect and repair all connectors and splices, refer to Group 8W, Wiring Diagrams. 5. Inspect and reset headlamp and parking lamp relays. 6. Replace Body Control Module
HEADLAMPS DO NOT ILLUMINATE	1. No voltage to headlamps. 2. No Z1-ground at headlamps. 3. Faulty headlamp switch. 4. Faulty dimmer switch. 5. Broken connection between BCM and headlamp/parking lamp relay. 6. Faulty parking lamp/headlamp relay. 7. Faulty Body Control Module	1. Repair open headlamp circuit, refer to Group 8W, Wiring Diagrams. 2. Repair circuit ground, refer to Group 8W, Wiring Diagrams. 3. Replace headlamp switch. 4. Replace headlamp switch. 5. Check Junction Block. continuity. Service as necessary. 6. Replace relay. 7. Replace Body Control Module
HEADLAMPS ILLUMINATE CONTINUOUSLY WITH IGNITION ON	1. Check headlamp switch circuit G52 for continuity. If no continuity. 2. Check headlamp switch return circuit L80 for continuity. If no continuity. (BCM will automatically do this if no continuity is detected.) 3. Check circuit L43 left side and L44 right side for a short to battery between the headlamp switch and the headlamp relay. 4. Stuck relay. 5. Faulty Body Control Module	1. Repair circuit. 2. Repair circuit. 3. Repair circuit. 4. Replace relay. 5. Replace Body Control Module

DIAGNOSIS AND TESTING (Continued)

CONDITION	POSSIBLE CAUSES	CORRECTION
INSTRUMENT PANEL LAMPS DO NOT DIM OR ILLUMINATE	1. No voltage to dimmer switch. 2. No Z1-ground at headlamps. 3. Faulty dimmer switch.	1. Check fuse. If good repair open headlamp circuit, refer to Group 8W, Wiring Diagrams. 2. Repair circuit ground, refer to Group 8W, Wiring Diagrams. 3. Replace dimmer switch.

FOG LAMP DIAGNOSIS

CONDITION	POSSIBLE CAUSES	CORRECTION
FOG LAMPS ARE DIM WITH ENGINE IDLING OR IGNITION TURNED OFF.	1. Loose or corroded battery cables. 2. Loose or worn generator drive belt. 3. Charging system output too low. 4. Battery has insufficient charge. 5. Battery is sulfated or shorted. 6. Poor lighting circuit Z1 ground. 7. Both fog lamps are defective.	1. Clean and secure battery cable clamps and posts. 2. Adjust or replace generator drive belt. 3. Test and repair charging system, refer to Group 8A, Battery. 4. Test battery state-of-charge, refer to Group 8A, Battery. 5. Load test battery, refer to Group 8A, Battery. 6. Test for voltage drop across Z1 ground locations, refer to Group 8W, Wiring Diagrams. 7. Replace both fog lamp bulbs.
FOG LAMP BULBS BURN OUT FREQUENTLY	1. Charging system output too high. 2. Loose or corroded terminals or splices in circuit.	1. Test and repair charging system, refer to Group 8A, Battery. 2. Inspect and repair all connectors and splices, refer to Group 8W, Wiring Diagrams.
FOG LAMPS ARE DIM WITH ENGINE RUNNING ABOVE IDLE	1. Charging system output too low. 2. Poor lighting circuit Z1 ground. 3. High resistance in fog lamp circuit. 4. Both fog lamp bulbs defective.	1. Test and repair charging system, refer to Group 8A, Battery. 2. Test for voltage drop across Z1 ground locations, refer to Group 8W, Wiring Diagrams. 3. Test amperage draw of fog lamp circuit. 4. Replace both fog lamp bulbs.

DIAGNOSIS AND TESTING (Continued)

CONDITION	POSSIBLE CAUSES	CORRECTION
FOG LAMPS FLASH RANDOMLY	1. Poor lighting circuit Z1-ground. 2. High resistance in fog lamp circuit. 3. Faulty fog lamp switch. 4. Loose or corroded terminals or splices in circuit. 5. Bad connection between headlamp switch and BCM 6. Loose relay. 7. Faulty Body Control Module.	1. Test for voltage drop across Z1-ground locations, refer to Group 8W, Wiring Diagrams. 2. Test amperage draw of fog lamp circuit. 3. Replace headlamp switch. 4. Inspect and repair all connectors and splices, refer to Group 8W, Wiring Diagrams. 5. Test and diagnose circuit between headlamp switch and BCM. 6. Inspect and reset fog lamp relay. 7. Replace Body Control Module.
FOG LAMPS DO NOT ILLUMINATE	1. Blown fuse for fog lamps. 2. No Z1-ground at fog lamps. 3. Faulty fog lamp switch. 4. Broken connector terminal or wire splice in fog lamp circuit. 5. Broken connection between BCM and fog lamp relay. 6. Faulty fog lamp relay. 7. Faulty Body Control Module.	1. Replace fuse, refer to Group 8W, Wiring Diagrams. 2. Repair circuit ground, refer to Group 8W, Wiring Diagrams. 3. Replace headlamp switch. 4. Repair connector terminal or wire splice. 5. Test relay connectors in the Junction Block and the circuit to BCM. Repair as necessary. 6. Replace relay. 7. Replace Body Control Module.

HEADLAMP ALIGNMENT

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GENERAL INFORMATION

GENERAL INFORMATION

LH vehicle headlamps are equipped with a bubble level to aid up/down headlamp alignment. The bubble level is used to assist headlamp alignment when compensating for vehicle ride height changes due to heavy luggage compartment loads or vehicle ride height changes. The vehicle should always be on a level surface when headlamp alignments are checked or changed. Headlamp alignment should always be first attempted by using the bubble level.

The bubble levels cannot be calibrated. The bubble level adjustments are set by the manufacturer. Horizontal alignment does not ordinarily have to be changed except in the case of body damage or tampering.

ADJUSTMENTS

HEADLAMP ALIGNMENT PREPARATION

(1) Verify headlamp dimmer switch and high beam indicator operation.

(2) Inspect and correct damaged or defective components that could interfere with proper headlamp alignment.

(3) Verify proper tire inflation.

(4) Clean headlamp lenses.

(5) Verify that luggage area is not heavily loaded.

(6) Fuel tank should be FULL. Add 2.94 kg (6.5 lbs.) of weight over the fuel tank for each estimated gallon of missing fuel.

HEADLAMP AND FOG LAMP ADJUSTMENT USING ALIGNMENT SCREEN

NOTE: LH vehicle headlamps should be aligned using the low beams. The high beams should be used to verify low beam settings.

ALIGNMENT SCREEN PREPARATION

(1) Position vehicle on a level surface perpendicular to a flat wall 7.62 meters (25 ft.) away from front of headlamp lens.

(2) If necessary, tape a line on the floor 7.62 meters (25 ft.) away from and parallel to the wall.

(3) From the floor up 1.27 meters (5 ft.), tape a line on the wall at the center line of the vehicle. Sight along the center line of the vehicle (from rear of vehicle forward) to verify accuracy of the line placement.

(4) Rock vehicle side-to-side three times to allow suspension to stabilize.

(5) Jounce front suspension three times by pushing downward on front bumper and releasing.

(6) Measure the distance from the center of the headlamp bulbs to the floor, or refer to Headlamp Alignment Measurement Chart. Transfer measurement to the alignment screen (with tape). Use this line for up/down adjustment reference.

(7) Measure distance from the center line of the vehicle to the center of the headlamp bulbs, or refer to Headlamp Alignment Measurement Chart. Transfer measurements to screen (with tape) to each side of vehicle center line. Use these lines for left/right adjustment reference (Fig. 1).

NOTE: There are reference marks on the lens to assist in locating the lamp centers.

ADJUSTMENTS (Continued)

HEADLAMP ALIGNMENT MEASUREMENT CHART

Module	Low Beam Center Line to Ground		Distance Between Lamp Centers (Low Beam)	
Concorde	25.0 in.	635.4 mm	54.2 in.	1376 mm
Intrepid	25.7 in.	652.4 mm	52.4 in.	1330 mm
LHS	25.0 in.	635.4 mm	49.3 in.	1254.5 mm
300M	24.8 in.	629.3 mm	52.7 in.	1338.5 mm

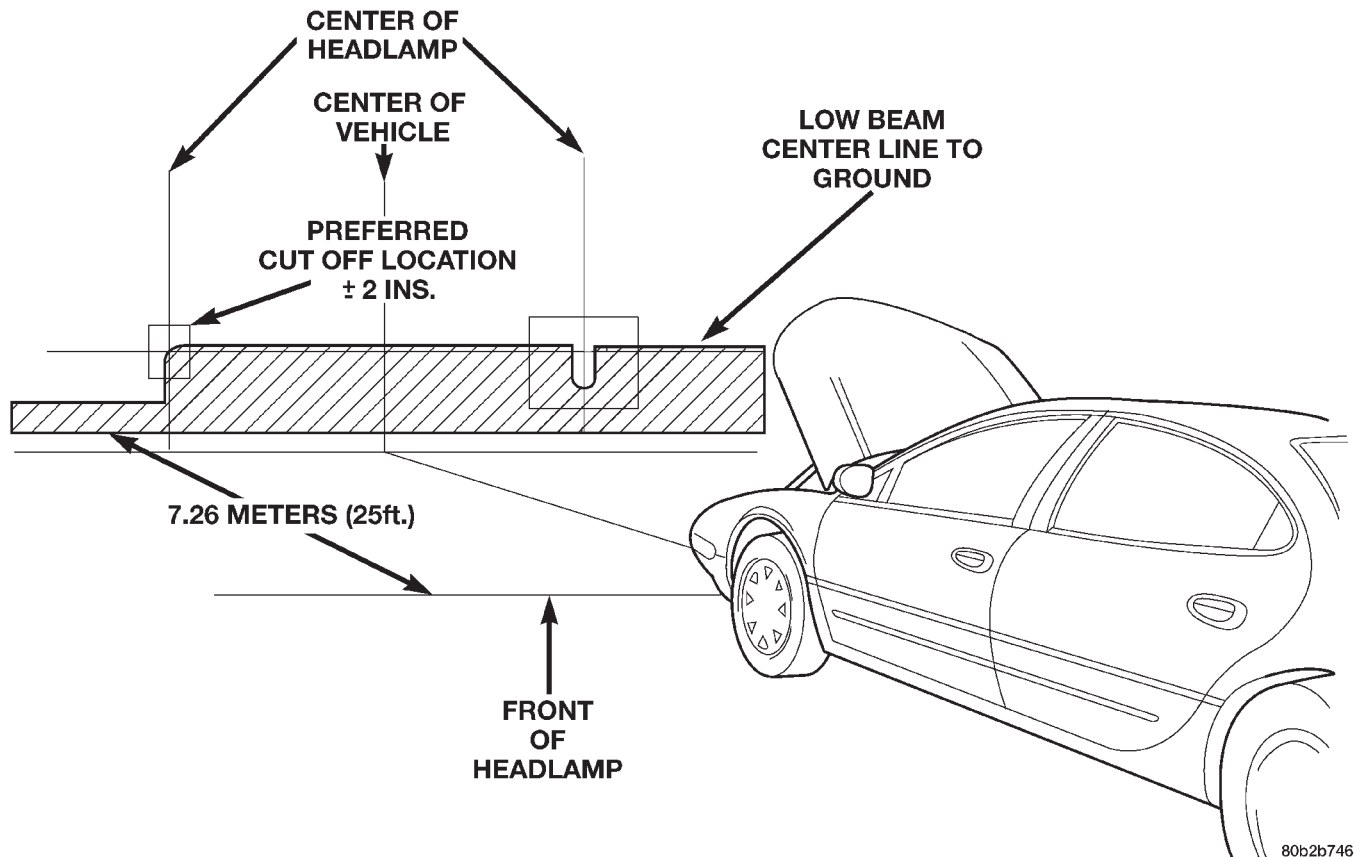


Fig. 1 Headlamp Alignment Screen

HEADLAMP ADJUSTMENT

(Fig. 1). The low beam hot spot cut off should be within 2 inches above/below the horizontal center line, and to the right of the vertical center line. This puts the low beam hot spot in the lower right quadrant of the aiming screen. Occasional stray filament images should be disregarded while verifying aim. Verify the vertical adjustment by checking the high beams to ensure they are centered within ± 2 inches relative to the horizontal center line. The low beams should be shielded when checking high beams. Do NOT cover the headlamp(s) for extended periods, as the heat may damage them. To adjust headlamp alignment, rotate the alignment screws, (Fig. 2) and (Fig. 3) to achieve the specified pattern.

NOTE: THE HORIZONTAL ADJUSTER IS SHOWN BELOW THE TOP OF THE HEADLAMP.

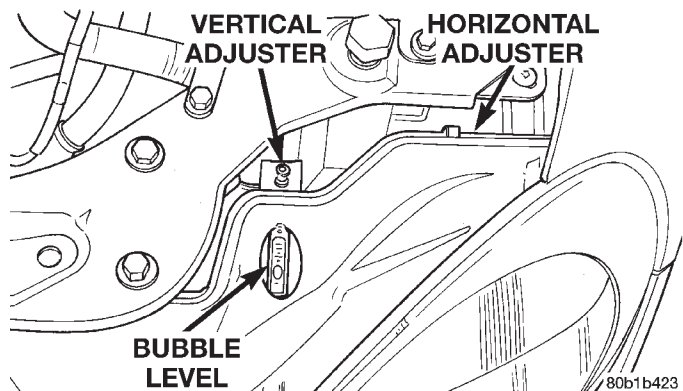
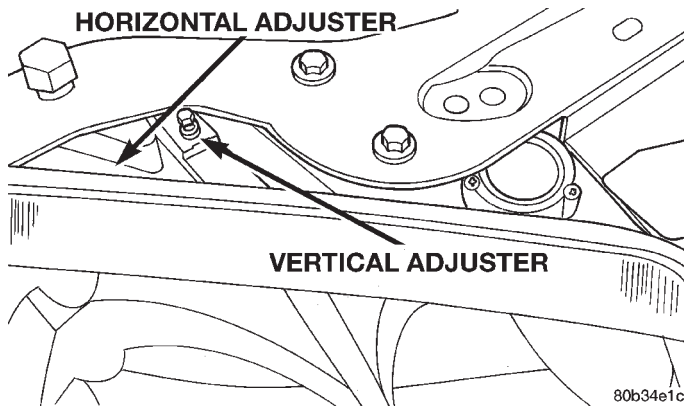
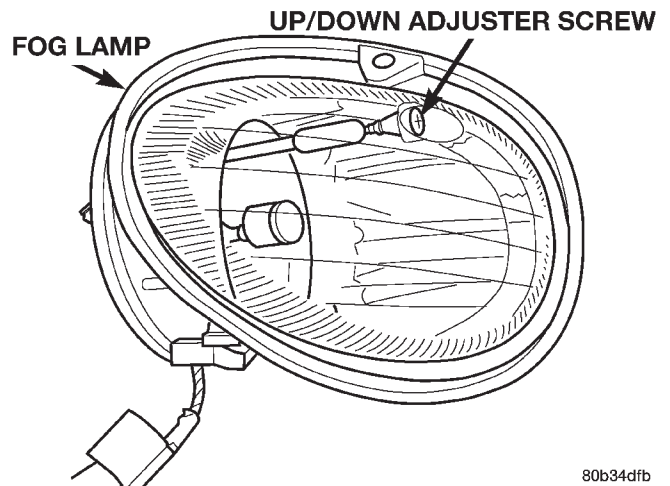
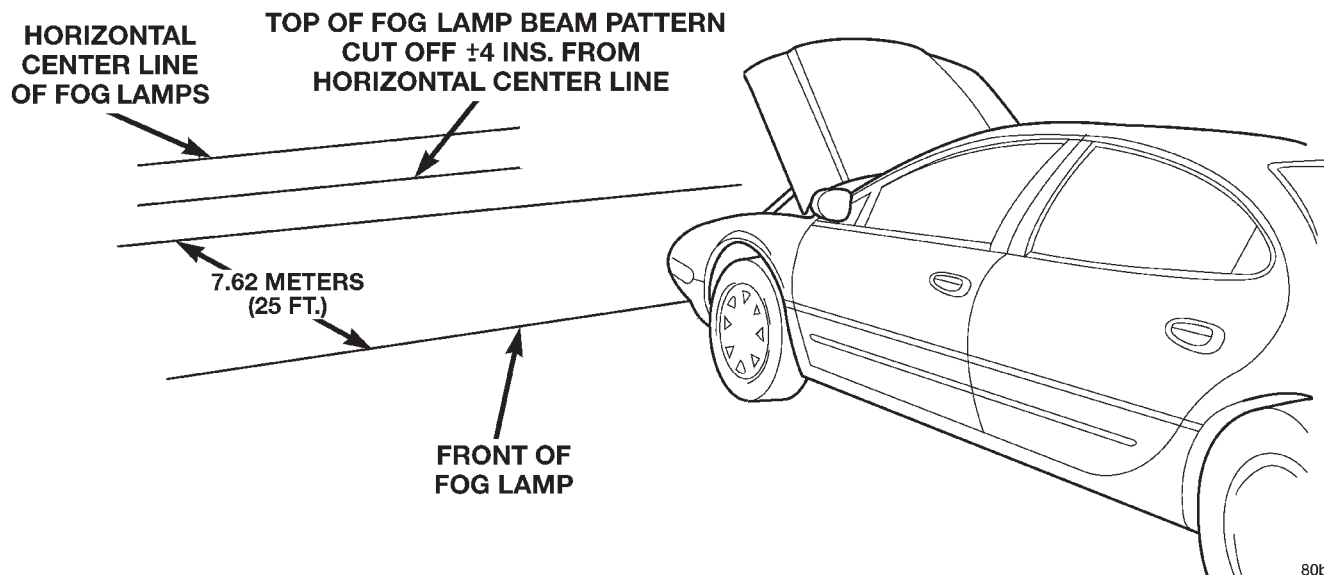


Fig. 2 Headlamp Alignment Screws – Concorde/ LHS/300M

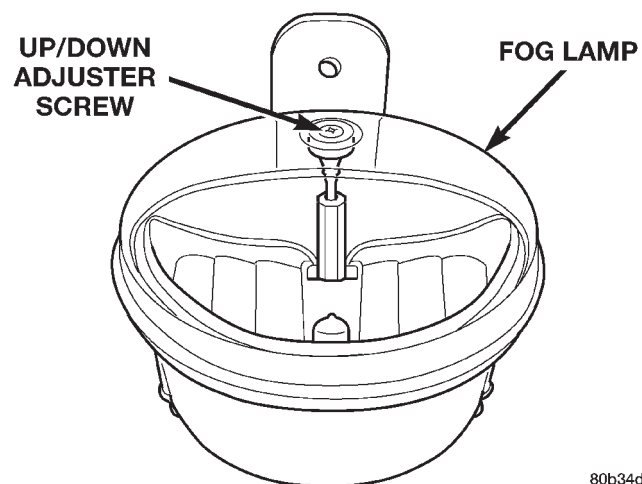
ADJUSTMENTS (Continued)

**Fig. 3 Headlamp Alignment Screws – Intrepid****FOG LAMP ALIGNMENT**

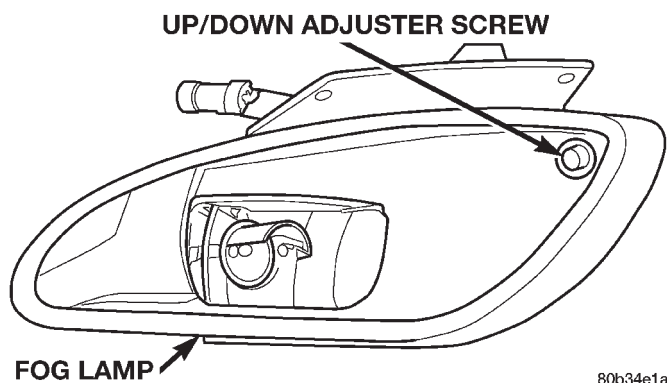
Prepare an alignment screen. Refer to Alignment Screen Preparation paragraph in this section. A properly aligned fog lamp will project a pattern on the alignment screen 100 mm (4 in.) below the fog lamp center line and straight ahead. To adjust fog lamp alignment, rotate the alignment screw (Fig. 5), (Fig. 6) or (Fig. 7).

**Fig. 5 Fog lamp Adjuster Screw – Intrepid****Fig. 4 Fog Lamp Alignment Screen**

ADJUSTMENTS (Continued)



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Fig. 6 Fog lamp Adjuster Screw – LHS

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Fig. 7 Fog lamp Adjuster Screw – 300M

LAMP BULB SERVICE

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REMOVAL AND INSTALLATION

CHMSL BULB(S) – CONCORDE/LHS

REMOVAL

- (1) Release deck lid latch and open deck lid.
- (2) From under rear shelf panel, disconnect the lamp socket from the CHMSL housing (Fig. 1).
- (3) Remove bulb from the socket.

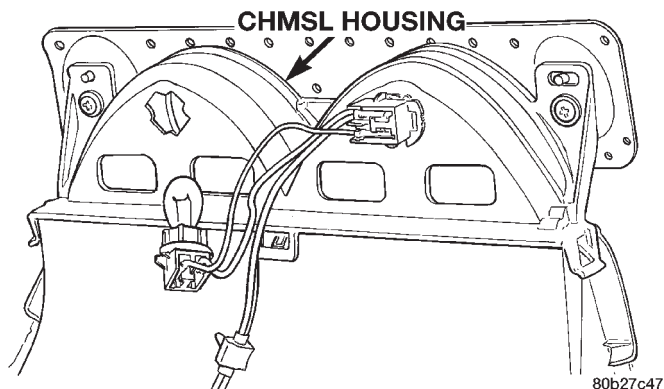


Fig. 1 CHMSL – Rear Shelf

INSTALLATION

- (1) Install the bulb into the socket.
- (2) Install socket into CHMSL housing.
- (3) Verify CHMSL operation.

CHMSL AND APPLIQUE LAMP BULB(S) – INTREPID

REMOVAL

- (1) Release deck lid latch and open trunk lid.
- (2) Remove deck lid cover.

FRONT PARKING, SIDE MARKER, AND TURN

- (3) Disconnect lamp socket from housing (Fig. 2).
- (4) Remove bulb from socket.

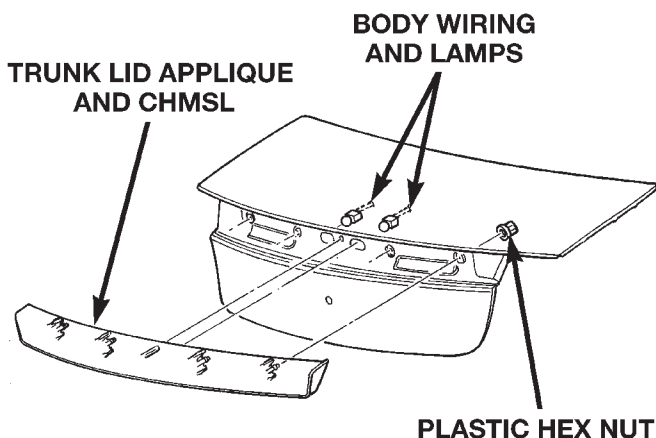


Fig. 2 CHMSL – Intrepid

INSTALLATION

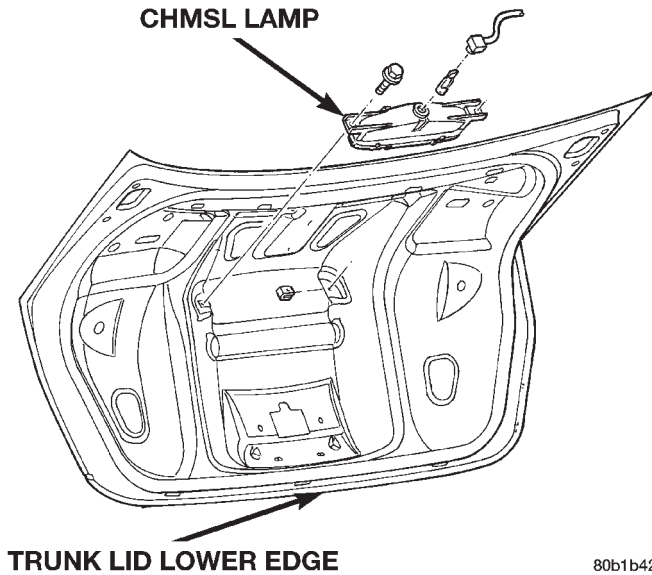
- (1) Install bulb into socket.
- (2) Install socket into housing.
- (3) Verify CHMSL operation.
- (4) Install deck lid cover.

CHMSL LAMP BULB – 300M

REMOVAL

- (1) Release deck lid latch and open deck lid.
- (2) Remove deck lid cover.
- (3) Disconnect lamp socket(s) from housing (Fig. 3).
- (4) Remove bulb(s) from socket(s).

REMOVAL AND INSTALLATION (Continued)

**Fig. 3 CHMSL – 300M**

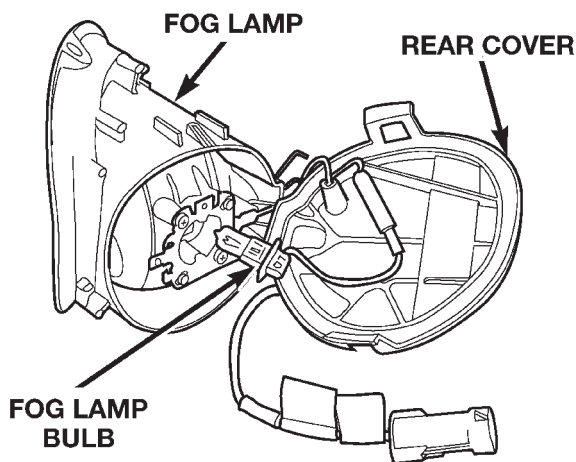
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INSTALLATION

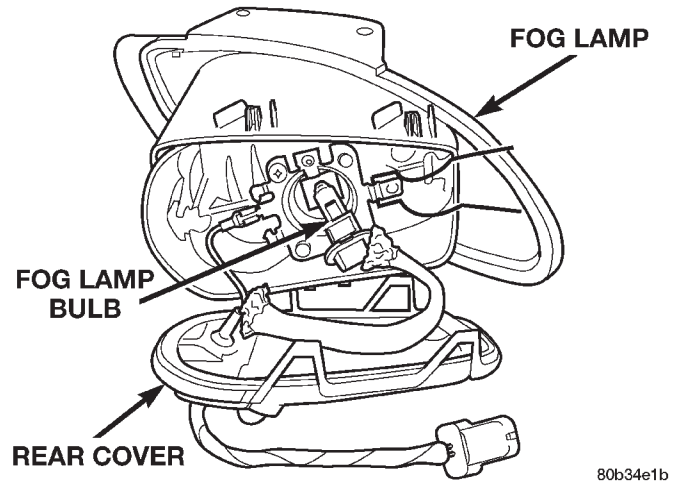
- (1) Install bulb(s) in socket(s).
- (2) Install socket(s) into housing.
- (3) Verify CHMSL operation.
- (4) Install deck lid cover.

FOG LAMP BULB – INTREPID/300M**REMOVAL**

- (1) Remove fog lamp housing screw in front fascia and pull lamp housing from the fascia.
- (2) Remove rear cover from fog lamp housing.
- (3) Disengage wire clip holding bulb in fog lamp.
- (4) Hinge wire clip out of bulb removal path.
- (5) Pull bulb from lamp housing (Fig. 4) or (Fig. 5).
- (6) Disengage wire connector from body wire harness.

**Fig. 4 Fog Lamp Bulb – Intrepid**

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Fig. 5 Fog Lamp Bulb – 300M**INSTALLATION**

CAUTION: Do not touch the glass of halogen bulbs with fingers or other possibly oily surface, reduced bulb life will result.

- (1) Connect wire connector to body wire harness.
- (2) Cover exposed terminal with teflon coated sleeve.
- (3) Insert bulb into lamp housing.
- (4) Hinge wire clip over bulb base.
- (5) Engage wire clip to hold bulb in fog lamp.
- (6) Install rear cover to fog lamp housing.
- (7) Verify fog lamp operation and alignment.
- (8) Install fog lamp housing screw to the front fascia.

FOG LAMP BULB – LHS**REMOVAL**

- (1) Remove fog lamp housing screw in front fascia and pull lamp housing from the front fascia.
- (2) Disconnect wire connector from fog lamp socket (Fig. 6).
- (3) Rotate socket and pull bulb/socket from lamp housing.

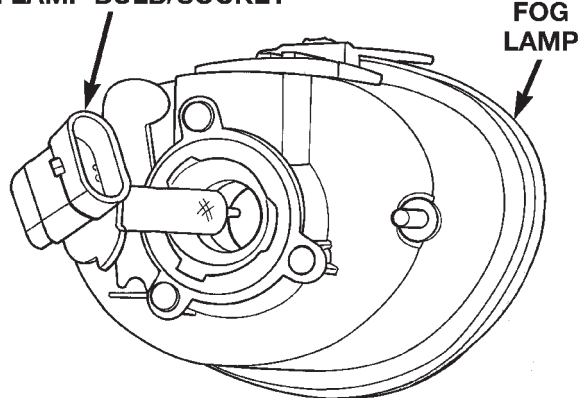
INSTALLATION

CAUTION: Do not touch the glass of halogen bulbs with fingers or other possibly oily surface, reduced bulb life will result.

- (1) Install socket into fog lamp housing and rotate to the lock position.
- (2) Connect wire connector to the socket.
- (3) Verify fog lamp operation and alignment.
- (4) Install fog lamp housing into fascia.
- (5) Install fog lamp screw to the front fascia.

REMOVAL AND INSTALLATION (Continued)

FOG LAMP BULB/SOCKET



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Fig. 6 Fog Lamp Bulb - LHS

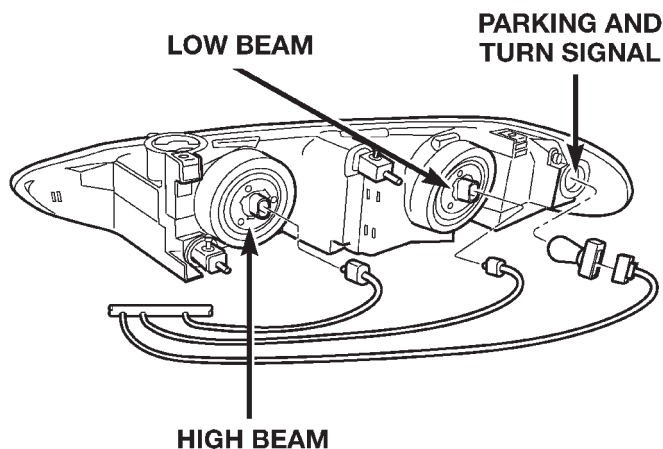
FRONT PARKING AND TURN SIGNAL LAMP BULB - LHS

REMOVAL

- (1) Remove headlamp housing from vehicle.
- (2) Disconnect wire connector from back of lamp socket(s).
- (3) Rotate socket and pull lamp socket from headlamp housing (Fig. 7).
- (4) Remove bulb from lamp socket.

INSTALLATION

- (1) Push bulb into lamp socket.
- (2) Place lamp socket into headlamp housing and rotate to the lock position.
- (3) Connect wire connector to lamp socket(s).
- (4) Verify headlamp operation.
- (5) Install headlamp housing.
- (6) Verify headlamp operation and alignment.



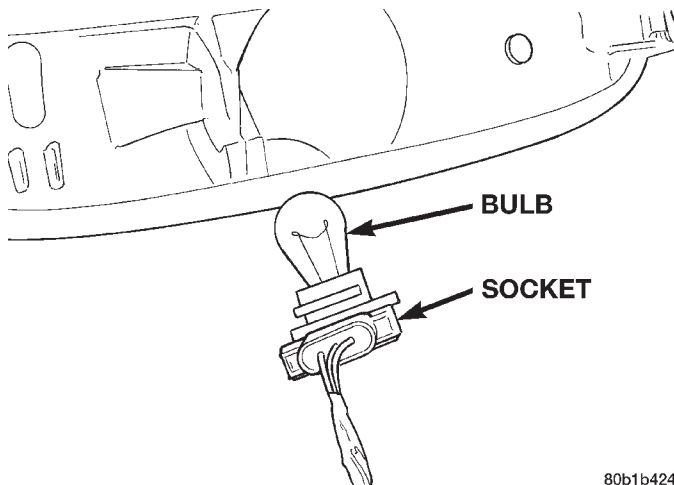
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Fig. 7 Front Parking and Turn Signal Lamp Bulb - LHS

FRONT PARKING, SIDE MARKER, AND TURN SIGNAL LAMP BULB - CONCORDE

REMOVAL

- (1) Reach under the fascia and remove the socket from the lamp housing (Fig. 8).
- (2) Rotate and pull socket from lamp housing.
- (3) Pull bulb from socket.



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Fig. 8 Parking, Side Marker, and Turn Signal Lamp Bulb - Concorde

INSTALLATION

- (1) Push bulb into socket.
- (2) Install socket into lamp housing.
- (3) Verify park and turn signal lamp operation.

FRONT PARKING, SIDE MARKER, AND TURN SIGNAL LAMP BULB - INTREPID

REMOVAL

- (1) Release hood latch and open hood.
- (2) Remove jackscrews attaching headlamp to crossmember.
- (3) Remove lamp housing to access the lamp socket.
- (4) Remove lamp socket from lamp housing (Fig. 9).
- (5) Pull bulb from socket.

INSTALLATION

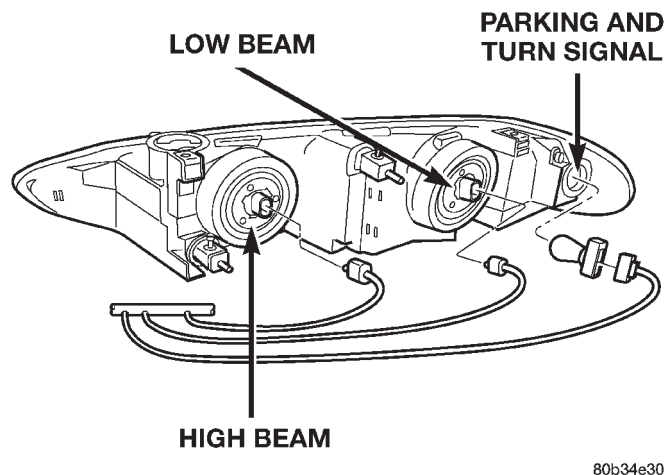
- (1) Push bulb into socket.
- (2) Install lamp socket in lamp housing.
- (3) Verify lamp operation.
- (4) Place headlamp in position on vehicle.
- (5) Install jackscrews to attach headlamp housing to crossmember.

FRONT SIDE MARKER LAMP BULB - LHS

REMOVAL

- (1) Reach under the fascia and remove the socket from the side marker lamp housing (Fig. 10).

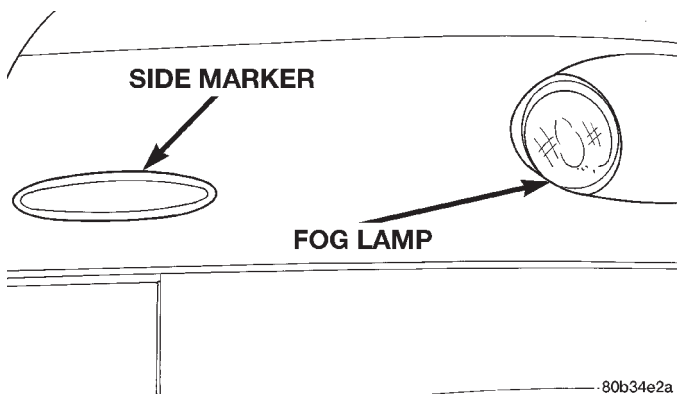
REMOVAL AND INSTALLATION (Continued)



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Fig. 9 Parking, Side Marker, and Turn Signal Bulb - Intrepid

- (2) Pull bulb from socket.



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Fig. 10 Front Side Marker Lamp Bulb - LHS

INSTALLATION

- (1) Push bulb into socket.
- (2) Install socket into front side marker lamp housing.
- (3) Verify park and front side marker lamp operation.

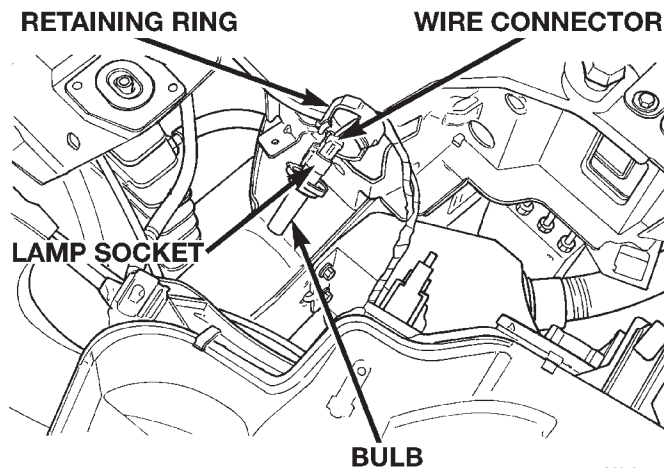
HEADLAMP BULB(S) - CONCORDE/LHS/300M

REMOVAL

- (1) Remove headlamp housing. Refer to Headlamp Housing - Concorde/LHS/300M for proper procedures.
- (2) Rotate retaining ring (High beam or Low beam) and pull lamp socket from headlamp housing (Fig. 11).
- (3) Remove bulb from lamp socket.

INSTALLATION

CAUTION: Do not touch the glass of halogen bulbs with fingers or other possibly oily surface, reduced bulb life will result.



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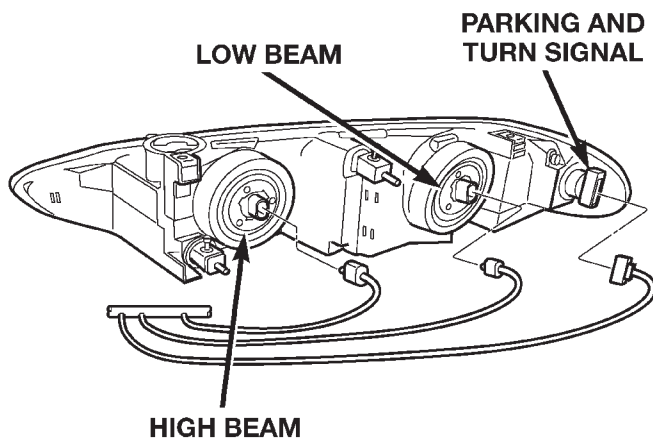
Fig. 11 Headlamp Bulb Removal

- (1) Push bulb into lamp socket.
- (2) Place lamp socket into headlamp housing and rotate retaining ring to the lock position.
- (3) Install headlamp housing.

HEADLAMP BULBS - INTREPID

REMOVAL

- (1) Release hood latch and open hood.
- (2) Remove jackscrews attaching headlamp housing to crossmember and remove the lamp housing to access the lamp(s).
- (3) Disconnect wire connector from back of lamp socket (Fig. 12).
- (4) Rotate retaining ring (High beam or Low beam) and pull lamp socket from headlamp housing.
- (5) Remove bulb from lamp socket.



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Fig. 12 Headlamp Bulb - Intrepid

INSTALLATION

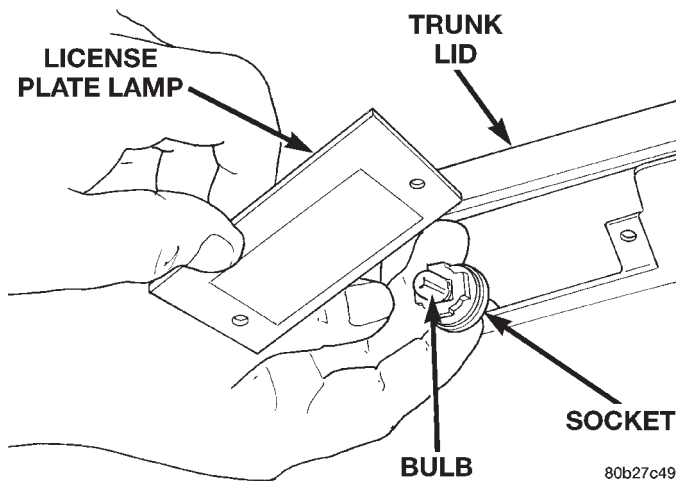
CAUTION: Do not touch the glass of halogen bulbs with fingers or other possibly oily surface, reduced bulb life will result.

REMOVAL AND INSTALLATION (Continued)

- (1) Push bulb into lamp socket.
- (2) Place lamp socket into headlamp housing and rotate retaining ring to the lock position.
- (3) Connect wire connector to lamp socket(s).
- (4) Place lamp housing in position on vehicle.
- (5) Verify headlamp operation.
- (6) Install jackscrews to attach headlamp housing to crossmember.
- (7) Verify headlamp operation and alignment.

LICENSE PLATE LAMP BULB – REAR BUMPER FASCIA**REMOVAL**

- (1) Remove screws attaching license plate lamp to rear bumper fascia.
- (2) Remove license plate lamp from rear bumper fascia.
- (3) Remove socket from lamp (Fig. 13).
- (4) Pull bulb from socket.

**Fig. 13 License Plate Lamp Bulb****INSTALLATION**

- (1) Push bulb into socket.
- (2) Install socket into lamp.
- (3) Place license plate lamp in position on rear bumper fascia.
- (4) Install screws to attach license plate lamp to rear bumper fascia.

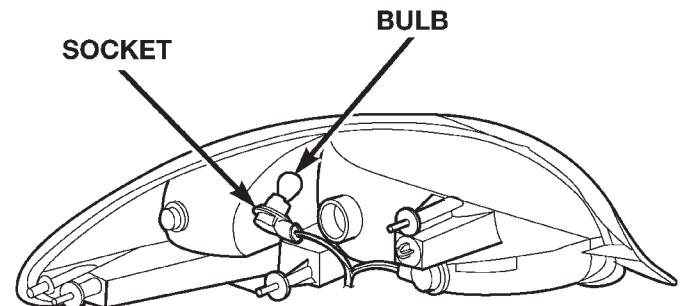
TAIL, STOP, BACK UP, AND TURN SIGNAL LAMP BULB**REMOVAL**

- (1) Release deck latch and open deck lid.
- (2) Remove trunk lining from rear closure panel as necessary to gain access to tail lamp fasteners.

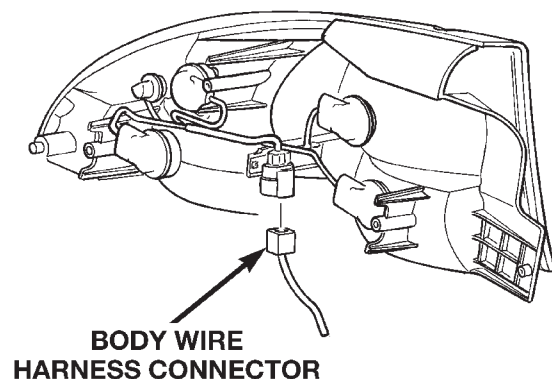
- (3) Remove nuts attaching tail lamp to rear closure panel.
- (4) Remove tail lamp from rear closure panel.
- (5) Remove socket(s) from tail lamp (Fig. 14), (Fig. 15), and (Fig. 16).
- (6) Pull bulb from socket.

INSTALLATION

- (1) Push bulb into socket.
- (2) Install socket(s) in tail lamp.
- (3) Place tail lamp in position on rear closure panel.
- (4) Install nuts attaching tail lamp to rear closure panel.
- (5) Install trunk lining.
- (6) Verify lamp operation.



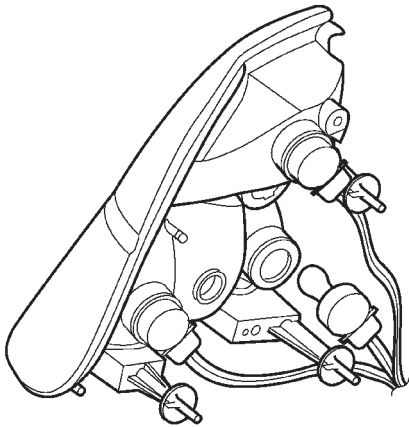
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Fig. 14 Tail, Stop, Back up, and Turn Signal Lamp Bulb – Concorde/LHS

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Fig. 15 Tail, Stop, Back up, and Turn Signal Lamp Bulb – Intrepid

REMOVAL AND INSTALLATION (Continued)



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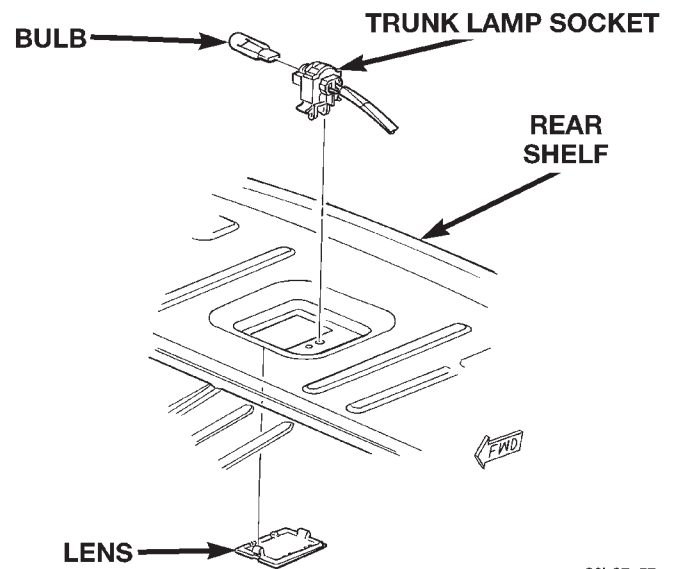
Fig. 16 Tail, Stop, Back up, and Turn Signal Lamp Bulb - 300M

DECK LID LAMP BULB**REMOVAL**

- (1) Remove lens from lamp (Fig. 17).
- (2) Pull bulb from socket.

INSTALLATION

- (1) Insert bulb into socket.
- (2) Install lamp lens.



80b27c57

Fig. 17 Deck Lid Lamp Bulb

EXTERIOR LAMP HOUSINGS

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REMOVAL AND INSTALLATION

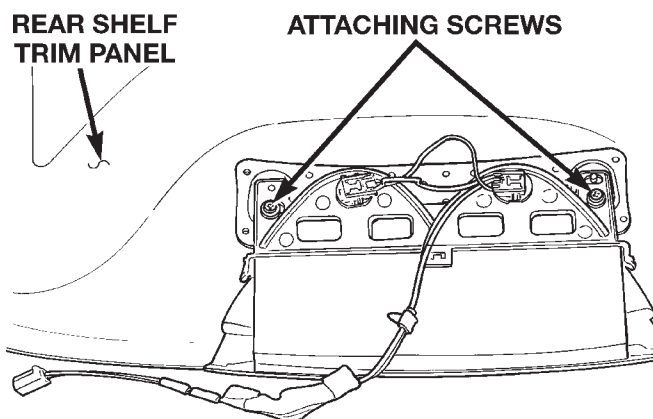
CHMSL HOUSING – CONCORDE/LHS

REMOVAL

- (1) Release deck lid latch and open deck lid.
- (2) From under rear shelf panel, disconnect CHMSL wire connector from body harness.
- (3) Remove rear shelf upper panel.
- (4) Remove fasteners attaching the CHMSL to rear shelf upper panel (Fig. 1).
- (5) Remove CHMSL from rear shelf upper panel.

INSTALLATION

- (1) Place CHMSL in position on rear shelf upper panel.
- (2) Install fasteners to attach CHMSL to rear shelf upper panel.
- (3) Install rear shelf upper panel.
- (4) Connect CHMSL wire connector to body harness.
- (5) Verify CHMSL operation.



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Fig. 1 CHMSL – Rear Shelf

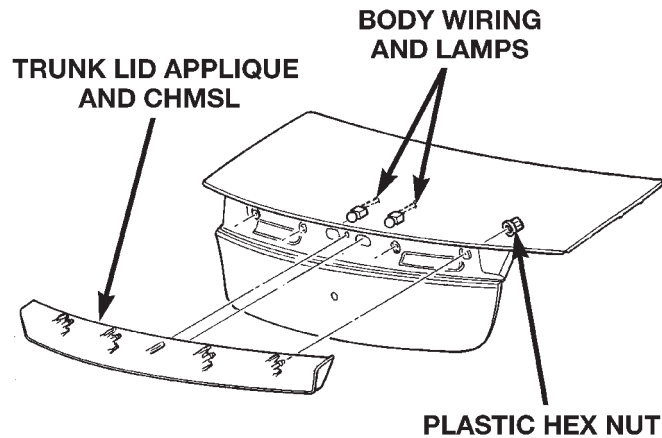
REMOVAL AND INSTALLATION (Continued)

CHMSL AND APPLIQUE HOUSING - INTREPID**REMOVAL**

- (1) Release deck lid latch and open deck lid.
- (2) Remove deck lid cover.
- (3) Disconnect CHMSL wire connector from body harness (Fig. 2).
- (4) Remove fasteners attaching CHMSL and applique to the deck lid.
- (5) Remove CHMSL from deck lid.

INSTALLATION

- (1) Place CHMSL in position on deck lid.
- (2) Install fasteners attaching CHMSL and applique to deck lid.
- (3) Connect CHMSL wire connector to body harness.
- (4) Verify CHMSL operation.
- (5) Install deck lid cover.



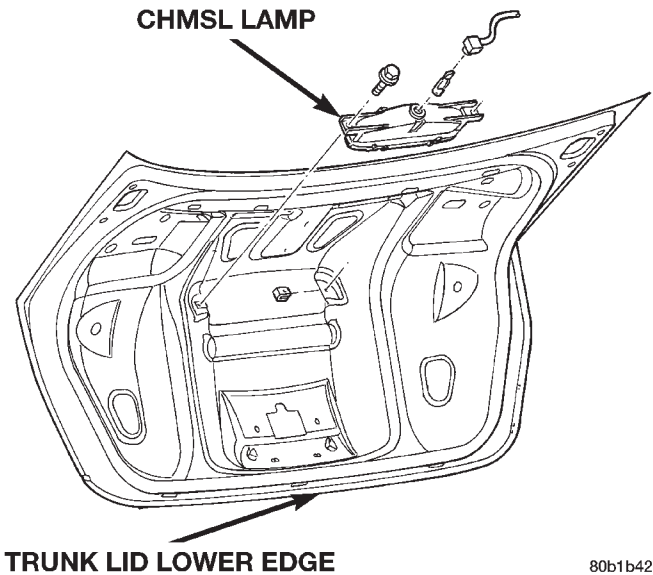
80b1b426

*Fig. 2 CHMSL Housing - Intrepid***CHMSL HOUSING - 300M****REMOVAL**

- (1) Release deck lid latch and open deck lid.
- (2) Remove deck lid cover.
- (3) Disconnect CHMSL wire connector from body harness (Fig. 3).
- (4) Remove fasteners attaching CHMSL to the deck lid.
- (5) Remove CHMSL from deck lid.

INSTALLATION

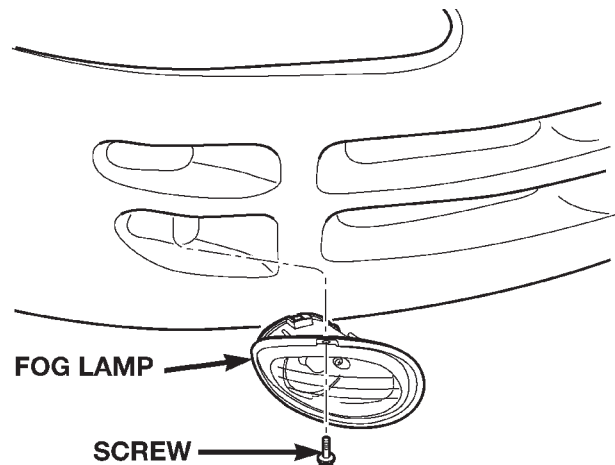
- (1) Place CHMSL in position on deck lid.
- (2) Install fasteners attaching CHMSL to deck lid.
- (3) Connect CHMSL wire connector to body harness.
- (4) Verify CHMSL operation.
- (5) Install deck lid cover.



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*Fig. 3 CHMSL - Deck Lid***FOG LAMP HOUSING****REMOVAL**

- (1) Remove screw(s) attaching fog lamp to fascia (Fig. 4), (Fig. 5), and (Fig. 6).
- (2) Pull fog lamp forward from opening in front bumper fascia.
- (3) Disconnect fog lamp wire connector from front lighting wire harness.
- (4) Remove fog lamp from vehicle.

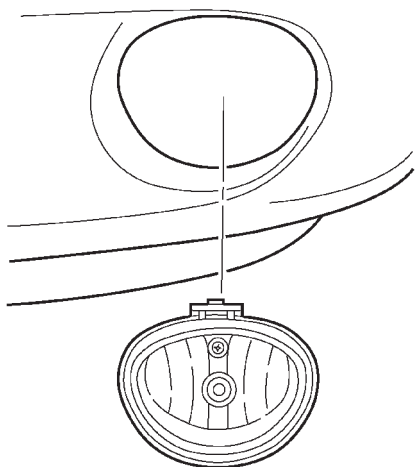


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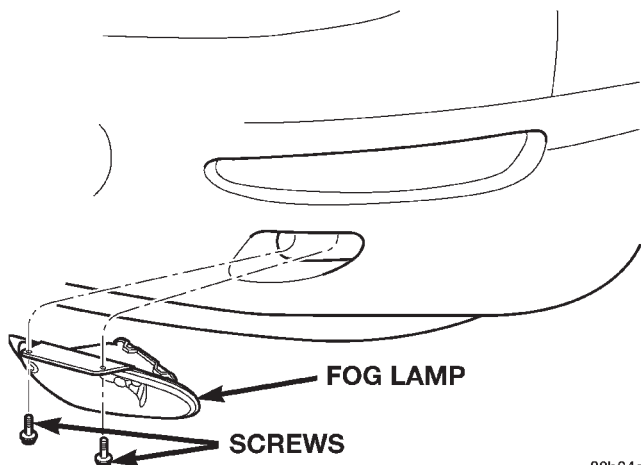
*Fig. 4 Fog Lamp - Intrepid***INSTALLATION**

- (1) Place fog lamp in position on vehicle.
- (2) Connect fog lamp wire connector to front lighting wire harness.

REMOVAL AND INSTALLATION (Continued)



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Fig. 5 Fog Lamp – LHS

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Fig. 6 Fog Lamp – 300M

(3) Insert fog lamp rearward into opening in front bumper fascia.

(4) Install screw(s) attaching fog lamp to fascia.

(5) Verify fog lamp operation and alignment. Refer to Fog Lamp Alignment procedures in this group.

FRONT PARKING, AND TURN SIGNAL LAMP HOUSING – LHS

The front parking, and turn signal lamp housing is part of the headlamp housing. For removal procedure refer to Headlamp Housing Removal and Installation procedures.

FRONT PARKING, SIDE MARKER, AND TURN SIGNAL LAMP HOUSING – CONCORDE/300M

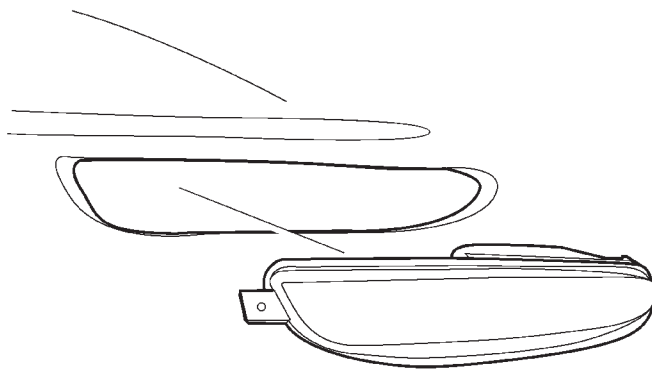
REMOVAL

(1) Remove headlamp housing to access lamp housing.

(2) Rotate and pull socket from lamp housing.

(3) Disconnect fastener attaching lamp housing to fascia (Fig. 7).

(4) Remove lamp housing from vehicle.



80b34e2e

Fig. 7 Front Parking, Side Marker, and Turn Signal Lamp Housing

INSTALLATION

(1) Place lamp housing in position on fascia.

(2) Install lamp fastener.

(3) Install bulb socket in lamp.

(4) Verify lamp operation.

(5) Install headlamp housing.

FRONT PARKING, SIDE MARKER, AND TURN SIGNAL LAMP HOUSING – INTREPID

The front parking, side marker, and turn signal lamp housing is part of the headlamp housing. For removal procedure refer to Headlamp Housing Removal and Installation procedures.

FRONT SIDE MARKER HOUSING – LHS

REMOVAL

(1) Loosen fascia as necessary to access lamp.

(2) Remove bulb socket from lamp.

(3) Disconnect fasteners attaching side marker lamp to fascia (Fig. 8).

(4) Remove attaching fasteners.

(5) Remove lamp housing from vehicle.

INSTALLATION

(1) Place lamp in position on fascia.

(2) Install lamp fasteners.

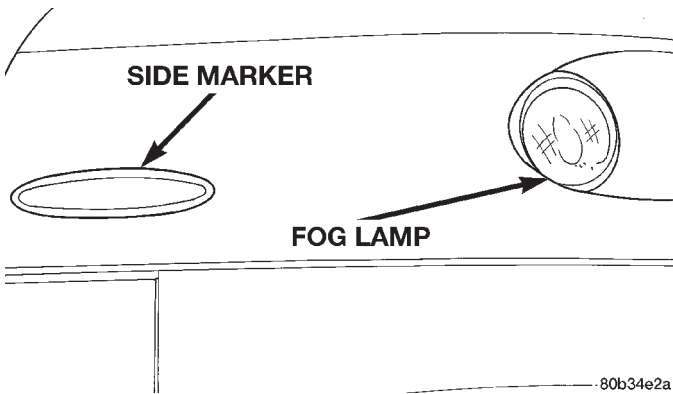
(3) Install bulb socket in lamp.

(4) Connect wire harness connector.

(5) Verify lamp operation.

(6) Attach fascia to vehicle.

REMOVAL AND INSTALLATION (Continued)

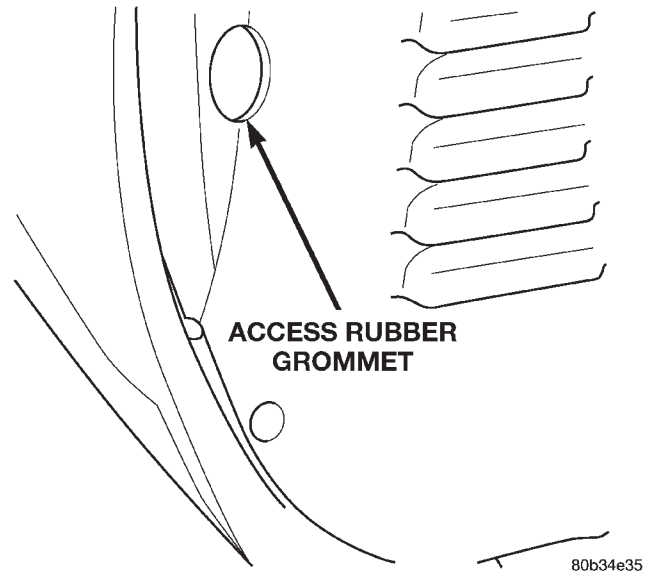
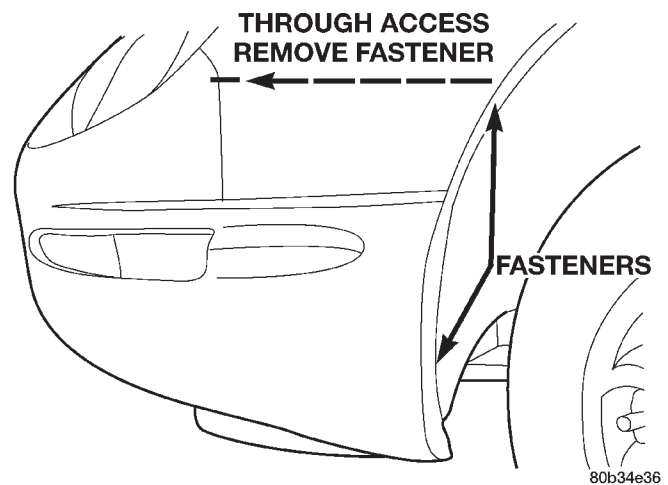
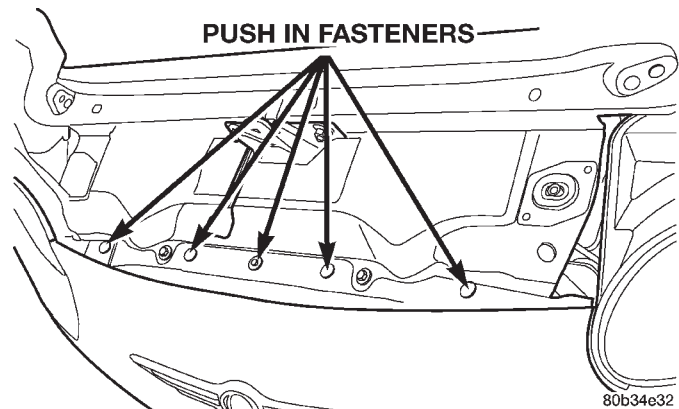
**Fig. 8 Front Side Marker Lamp Housing****HEADLAMP HOUSING – CONCORDE/LHS/330M****REMOVAL**

- (1) Release hood latch and open hood.
- (2) Remove large rubber grommet (70 mm x 168 mm) from splash shield to gain access to fascia fasteners (Fig. 9).
- (3) Remove fasteners attaching fascia to the front fender and splash shield, using access hole in splash shield (Fig. 10).
- (4) Remove the push pins attaching the fascia to the upper radiator closure panel (Fig. 11).
- (5) Remove jackscrews attaching headlamp housing to crossmember and remove the lamp housing to access the lamp(s) (Fig. 12).
- (6) Roll fascia forward to clear way for headlamp housing removal (Fig. 13).
- (7) Disconnect wire connector from back of lamp socket(s).
- (8) Remove headlamp housing (Fig. 14).

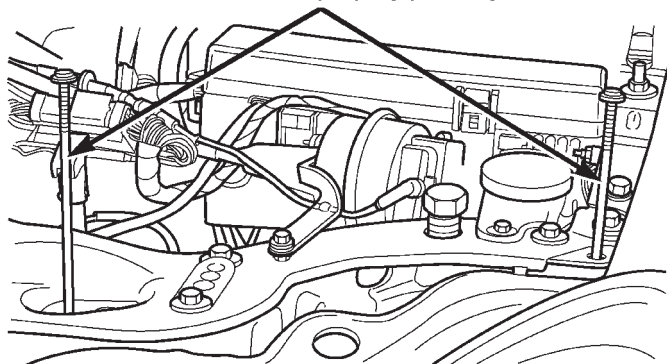
INSTALLATION

CAUTION: Do not touch the glass of halogen bulbs with fingers or other possibly oily surface, reduced bulb life will result.

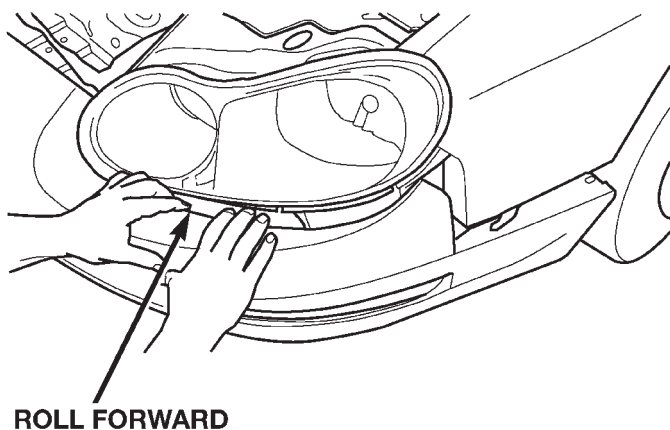
- (1) Place headlamp housing into position.
- (2) Connect wire connector to lamp socket(s).
- (3) Verify headlamp operation.
- (4) Install jackscrews to attach headlamp housing to crossmember.
- (5) Align fascia to bumper reinforcement and install the top center push pins, to upper radiator closure panel.
- (6) Align the two fascia studs to the fender vertical attachments, at the same time align the fascia groove on the horizontal flange with the fender drive pin. Push fascia rearward to engage the fasteners.
- (7) Install nut on fascia stud through the splash shield access hole.
- (8) Verify headlamp operation and alignment.

**Fig. 9 Access Rubber Grommet****Fig. 10 Fastener Locations****Fig. 11 Remove Push In Fasteners**

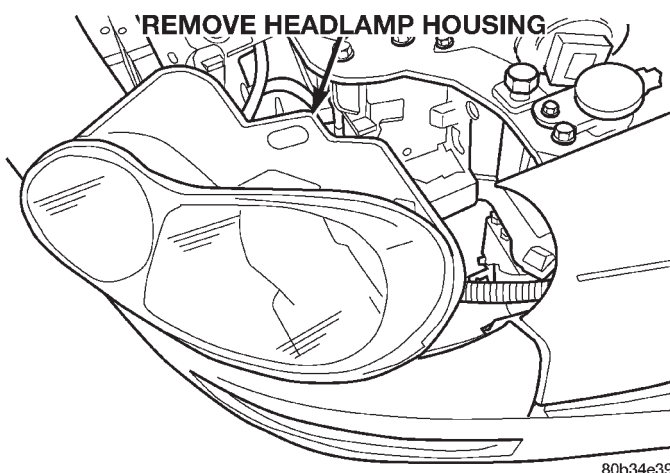
REMOVAL AND INSTALLATION (Continued)

HEADLAMP JACKSCREWS

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Fig. 12 Headlamp Jackscrews

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Fig. 13 Roll Fascia Forward

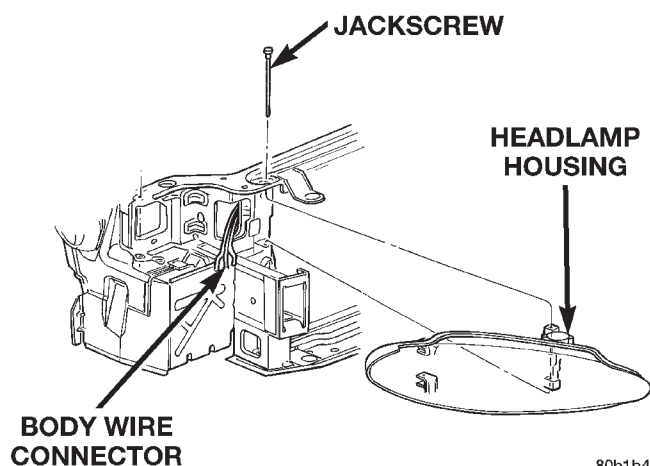
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Fig. 14 Remove Headlamp Housing**HEADLAMP HOUSING – INTREPID**

Headlamp lens fogging is a normal condition and does not require service. Moisture will vent from tubes or vents located on the back of the lamp.

REMOVAL

- (1) Release hood latch and open hood.
- (2) Remove jackscrews attaching headlamp to body (Fig. 15).
- (3) Remove headlamp from body.
- (4) Disconnect wire connector from headlamp and parking, side marker, and turn signal lamps.
- (5) Remove headlamp housing from vehicle.



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Fig. 15 Headlamp Housing**INSTALLATION**

- (1) Place headlamp housing in position on vehicle.
- (2) Connect wire connector to headlamp, parking, side marker, and turn signal lamps.
- (3) Place headlamp lamp in position on body.
- (4) Install screws to attach headlamp to body.
- (5) Verify headlamp operation and alignment.

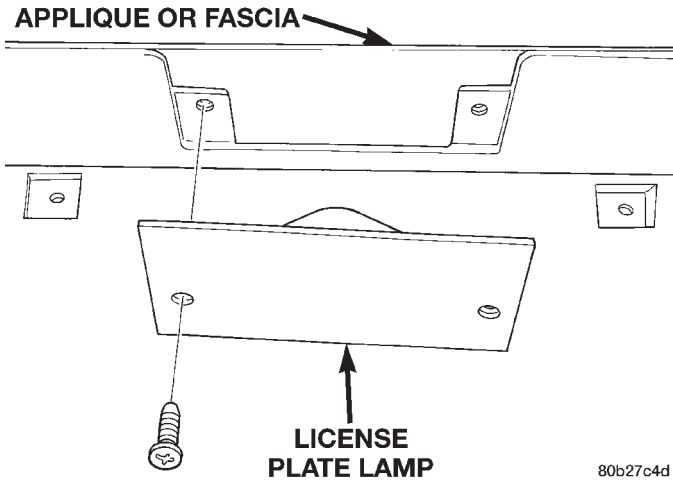
LICENSE PLATE LAMP – REAR BUMPER FASCIA**REMOVAL**

- (1) Remove screws holding license plate lamp to fascia (Fig. 16).
- (2) Remove license plate lamp from vehicle.

INSTALLATION

- (1) Place license plate lamp in position on vehicle.
- (2) Install screws to attach license plate lamp to fascia.

REMOVAL AND INSTALLATION (Continued)



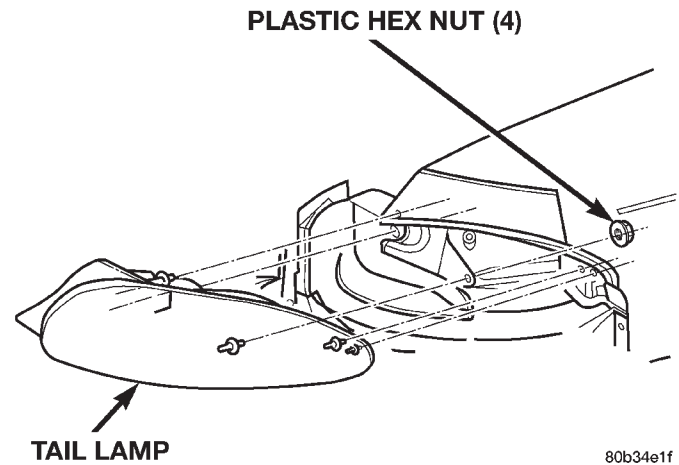
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Fig. 16 License Plate Lamp**TAIL, STOP, BACK UP, AND TURN SIGNAL LAMP****REMOVAL**

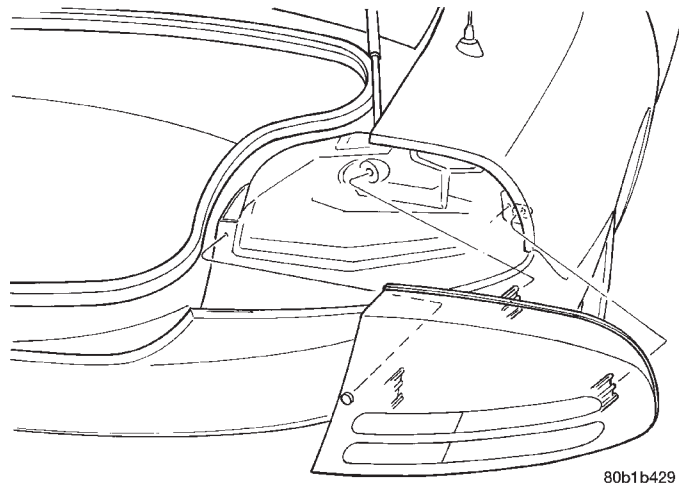
- (1) Release deck lid latch and open deck lid.
- (2) Remove fasteners attaching trunk lining to lower rear trunk panel.
- (3) Move the trunk lining to access the tail lamp fasteners.
- (4) Remove nuts attaching tail lamp to lower trunk and quarter panel (Fig. 17), and (Fig. 18).
- (5) Remove tail lamp from vehicle.
- (6) Disconnect tail lamp wire connector from body wire harness.

INSTALLATION

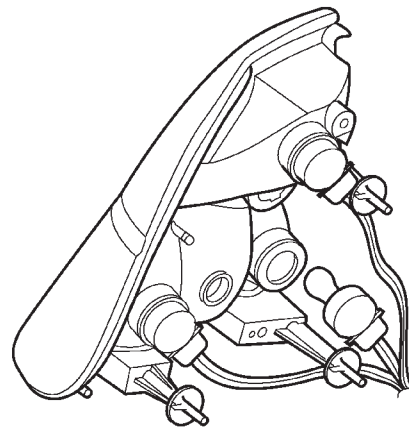
- (1) Connect tail lamp wire connector to body wire harness.
- (2) Place tail lamp in position on vehicle.
- (3) Install nuts to attach tail lamp to lower trunk and quarter panel.
- (4) Place trunk lining in position on lower trunk panel.
- (5) Install fasteners to attach trunk lining to lower rear trunk panel.
- (6) Verify lamp operation.



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Fig. 17 Tail, Stop, Back up, and Turn Signal – Concorde/ LHS

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Fig. 18 Tail, Stop, Back up, and Turn Signal – Intrepid

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Fig. 19 Tail, Stop, Back up, and Turn Signal – 300M

LIGHTING SYSTEMS

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HEADLAMP SYSTEM	22	ALL OTHER LIGHTING SYSTEMS	23
HEADLAMP TIME DELAY SYSTEM	23	DAYTIME RUNNING LAMP	23
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GENERAL INFORMATION

AUTOMATIC HEADLAMP SYSTEM

The Automatic Headlamp system turns the instrumentation and exterior illumination lamps ON when the ambient light levels are low and OFF when light levels are high. Automatic headlamps are controlled by the Body Control Module (BCM). With the headlamp switch in the AUTO position, the BCM will control the headlamp, parking, side marker, tail and instrumentation lamps based on ambient light levels. Ambient light levels are monitored by the BCM using the automatic temperature control system Sun load Sensor, located on the top of the instrument panel cover. Ambient light readings are averaged to limit cycling the lamps ON and OFF when passing through areas with varying light levels. The automatic headlamps will only function when the engine is running. When the headlamp switch is in the AUTO position (Automatic mode), the Headlamp Time Delay system will function when the ignition is switched OFF.

COURTESY LAMPS

The Body Control Module (BCM) illuminates the courtesy lamps whenever a door is opened. When the last door is closed, the BCM “fades-to-OFF” the courtesy lamps in five seconds. If a door is left ajar, the courtesy lamps remain on for a maximum of one hour when ignition switch is OFF. After one hour, the BCM “fades-to-OFF” the courtesy lamps.

DAYTIME RUNNING LAMPS – CANADA ONLY

The daytime running lamps are controlled by the Daytime Running Lamp Module (DRL Module). The DRL module is attach to the Junction Block. The Junction Block is located on the left side of the instrument panel. The DRL allows the high beam

headlamps to illuminate at reduced power when the ignition switch is in the run position with the high and low beam headlamp switches in the OFF position. The Park Brake must be released and the Brake Fluid Level switch must be in the open position to allow the headlamps to operate in DRL mode. The daytime running lamps will go out when the headlamp switch is turned ON. The passing light feature will flash bright high beams while the daytime running lamps are activated.

HEADLAMPS ON WITH WINDSHIELD WIPERS

Vehicles equipped with the Automatic Headlamp System the instrumentation and exterior illumination lamps will be turned ON when the headlamp switch is in the AUTO position and the windshield wipers have been in the intermittent, low or high mode of operation for more than ten seconds. When the windshield wipers are turned OFF the Body Control Module will determine if the instrumentation and exterior illumination lamps should remain ON base upon the current ambient light level.

HEADLAMP SYSTEM

The headlamp system is controlled completely by the Body Control Module (BCM). The BCM controls the Park lamps, Headlamps, and Front Fog Lamps using relays located in the Junction Block. Three wires are connected between the headlamp switch and the BCM. The first wire contains information regarding the position of the headlamp switch (Off, Automatic Headlamps, Automatic Headlamp switch fog, Park with Fog, Head, or Head with Fog Lamps). The second wire contains information regarding the position of the dimmer switch (Dome Lamp, Daytime Brightness, or Dimming Level). The third wire is a dedicated signal return (ground) wire.

GENERAL INFORMATION (Continued)

The headlamp system will default to headlamps ON position when ignition switch is ON when an open or short circuit failure occurs on the headlamp switch input. The system will return to normal operation when the open or short is repaired. A fault will be reported by the BCM when a failure occurs on the dimmer or headlamp switch input.

The dimmer system will default to Daytime Brightness when an open or a short occurs on the dimmer switch input.

The BCM will turn OFF the exterior lamps if they are left ON with the ignition switch OFF for more than ten minutes. This feature prevents the vehicle battery from being discharged when the vehicle lights have been left ON.

HEADLAMP TIME DELAY SYSTEM

The Headlamp Time Delay system is controlled by the Body Control Module (BCM) through the headlamp relay. The headlamp time delay system is activated by turning the headlamps ON (high or low beam) while the engine is running, turning the ignition switch OFF, and then turning the headlamp switch OFF within 45 seconds. The system will not activate if more than 45 seconds elapse between ignition switch OFF and headlamp switch OFF. The BCM will allow the headlamps to remain ON for 90 seconds before they automatically turn off. Refer to the Owner's Manual for more information.

ILLUMINATED ENTRY

The Illuminated Entry System is available on vehicles equipped with the Remote Keyless Entry system. The Illuminated Entry System turns ON the courtesy lamps when the remote keyless entry system is activated. The Remote Keyless Entry Module and the Body Control Module (BCM) are used to control the system. Courtesy lamps will turn on for 30 seconds (± 1 second) and "fade-to-OFF" over a five second period.

The Illuminated Entry System also turns ON the courtesy lamps when a door is opened. The courtesy lamps will remain ON while the door is open, then

"fade-to-OFF" 30 seconds (± 1 second) after the last door is closed.

The courtesy lamps will "fade-to-OFF" immediately when the ignition is switched to ON.

The Illuminated Entry System cannot be activated during the 30 second (± 1 second) period after the ignition switch is turned OFF except by using the RKE transmitter. If a door is opened and closed during this 30 second period, the system will function as previously described.

The courtesy lamps will fade to OFF immediately, if the Remote Keyless Entry lock function is actuated with all doors closed.

DIAGNOSIS AND TESTING

DAYTIME RUNNING LAMP

The Daytime Running Light Module (DRL Module) is controlled by inputs received from the ignition switch and High or Low Beam Headlamp Switches, Park Brake switch, and the Brake Fluid Level switch. Refer to Group 8W, Wiring Diagrams, for component location and circuit information.

ILLUMINATED ENTRY

When testing the system, all doors must be closed to prevent courtesy lamps from lighting. Verify that remote keyless entry system is operating properly before testing illuminated entry circuits. The body controller uses input from the remote keyless entry system to switch ON the courtesy lamps.

Refer to Group 8W, Wiring Diagrams, for component location and circuit information. Refer to Body Systems Diagnostic Procedures Manual for complete diagnostic information.

ALL OTHER LIGHTING SYSTEMS

Refer to Group 8W, Wiring Diagrams, for component locations and circuit information. For additional diagnostic information, refer to the appropriate Body Diagnostic Procedures manual.

LAMP APPLICATION

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SPECIFICATIONS

GENERAL INFORMATION

The following Bulb Application Tables lists the lamp title on the left side of the column and trade number or part number on the right.

CAUTION: Do not use bulbs that have a higher candle power than the bulb listed in the Bulb Application Table. Damage to lamp can result.

CAUTION: Do not touch halogen bulbs with fingers or other oily surfaces. Bulb life will be reduced.

DIMMER CONTROLLED INTERIOR LAMPS

Service procedures for most of the lamps in the instrument panel, Instrument cluster and switches are located in Group 8E, Instrument Panel and Gauges. Some components have lamps that can only be serviced by a Authorized Service Center (ASC) after the component is removed from the vehicle. Contact local dealer for location of nearest ASC.

LAMP LOCATION	BULB NUMBER
A/C Heater Control	330
Ash Receiver	161
Headlamp Switch	4798351
Instrument Cluster	PC194
Radio	ASC
Analog Clock	A9625

SPECIFICATIONS (Continued)

EXTERIOR LAMP BULBS

EXTERIOR LAMP BULB CHART

LAMP NAME		BULB NUMBER
Back up	Concorde/LHS	921
Back up	Intrepid/300M	3157
Center High Mounted Stop - Two Bulbs	Concorde/LHS	921
Center High Mounted Stop - Two Bulbs	Intrepid	922
Center High Mounted Stop - One Bulb	300M	921
Front Parking/Turn Signal	LHS	3157 KNA
Front Parking/Turn Signal/Side Marker	Concorde/300M	3157 KNA
Front Parking/Turn Signal/Side Marker	Intrepid	3157 KNA
Front Side Marker	LHS	168
Fog lamps	Intrepid	H-3 (35 watt)
	300M	H-3 (55 watt)
	LHS	9045 (45 Watt)
Headlamps	Concorde/Intrepid/300M	High beam
		9005 XSL
		Low beam
		9006 XSL
	LHS	High beam
		9005 XSL
		Low beam
		9006
License Plate	ALL	168
Side Marker (front)	LHS	168
Tail	300M	168
Tail Side Marker	Intrepid	168
Tail/Stop/Turn Signal	ALL	3157

SPECIFICATIONS (Continued)

INDICATOR LAMPS

Service procedures for most of the lamps in the instrument panel, instrument cluster and switches are located in Group 8E, Instrument Panel and Systems.

INDICATOR	BULB NUMBER
Air Bag	LED
Anti-Lock Brake	LED
Brake Warning	LED
Charging System	LED
Check Engine	LED
Cruise	74
Door Open	LED
Engine Oil Pressure	LED
Engine Temperature	LED
High Beam	74
Low Fuel	LED
Low Washer Fluid	LED
Seat Belt	LED
Deck Lid Open	LED
Turn Signal	PC194
Trac ON	74
Trac OFF	LED

NON DIMMER CONTROLLED INTERIOR LAMPS

Service procedures for most of the lamps in the following list can be found in Group 23, Body. Some components have lamps that can only be serviced by a Authorized Service Center (ASC) after the component is removed from the vehicle. Contact local dealer for location of nearest ASC.

LAMP LOCATION	BULB NUMBER
Door Courtesy	212-2
Glove Compartment	194
Overhead Console	192
Overhead Information Center	4437661
Reading Lamp – Front or Rear	192
Trunk	906
Visor Vanity	6501966