

10-1A-8 NOISE REDUCTION

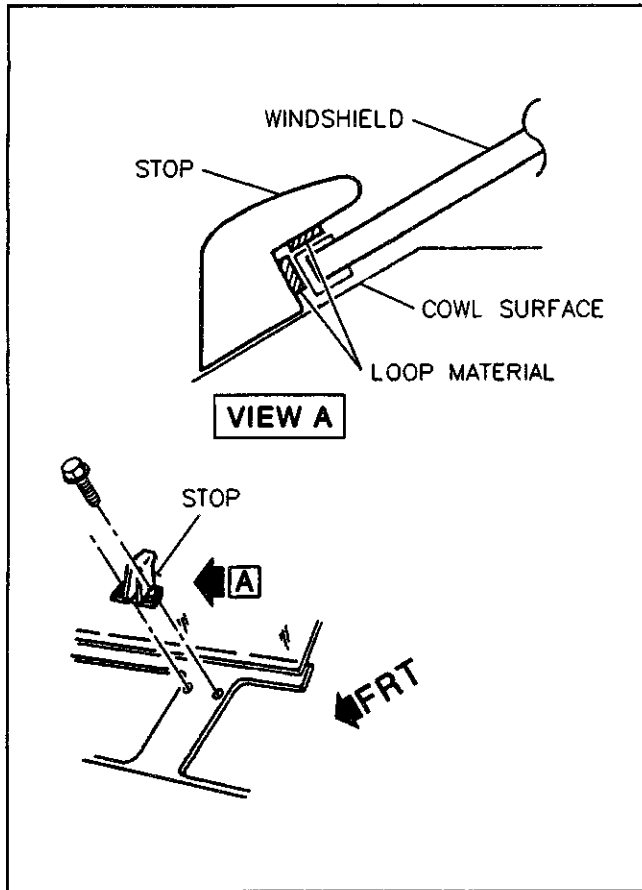


Figure 11 - Front of Vehicle—Windshield Wiper Stop

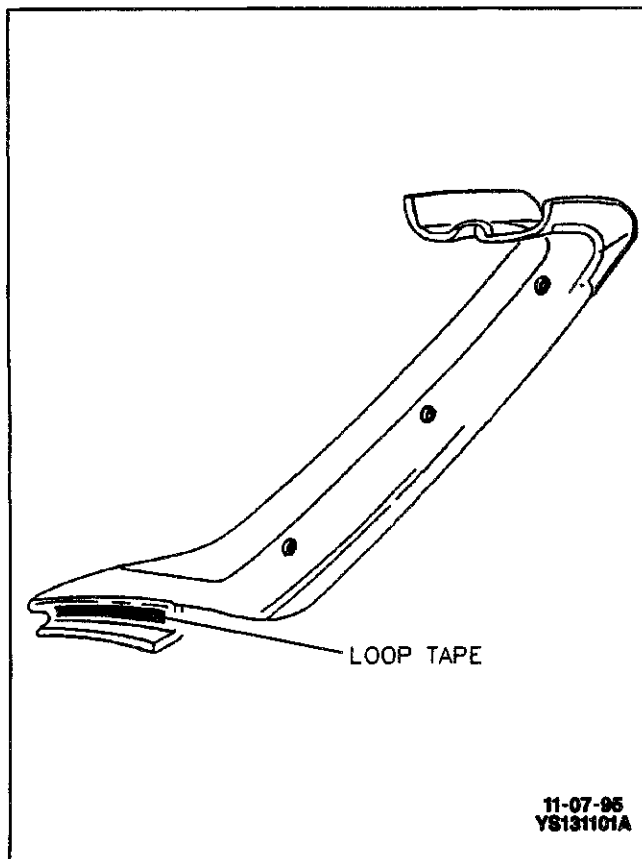


Figure 12 - Instrument Panel—A-Pillar Garnish Molding

Windshield Wiper Stop

Symptom:

- Popping, light rattle at front of windshield.

Possible Cause:

- Windshield wiper park stop rubbing on edge of windshield.

Diagnosis:

- Visually inspect.

Corrective Action:

- Remove stop and apply loop portion of hook and loop tape in two places as shown.
- Reposition stop for slight clearance.

INSTRUMENT PANEL

“A” Pillar Garnish Molding

Symptom:

- Itch coming from “A” pillar at front corner of Instrument Panel (I/P) upper trim pad.

Possible Cause:

- Garnish molding rubbing on I/P upper trim pad.
- Garnish molding contacting I/P carrier. Refer to Instrument Panel - Garnish Molding to Carrier Attachment.
- Door window rubbing “A” pillar weatherstrip. Refer to Door - Window to “A” pillar Weatherstrip.

Diagnosis:

- While test driving, apply pressure to bottom of garnish moldings and listen for itch to change.

Corrective Action:

- Remove garnish moldings and apply foam tape as shown.

Refer to SECTION 10-2 for molding removal.

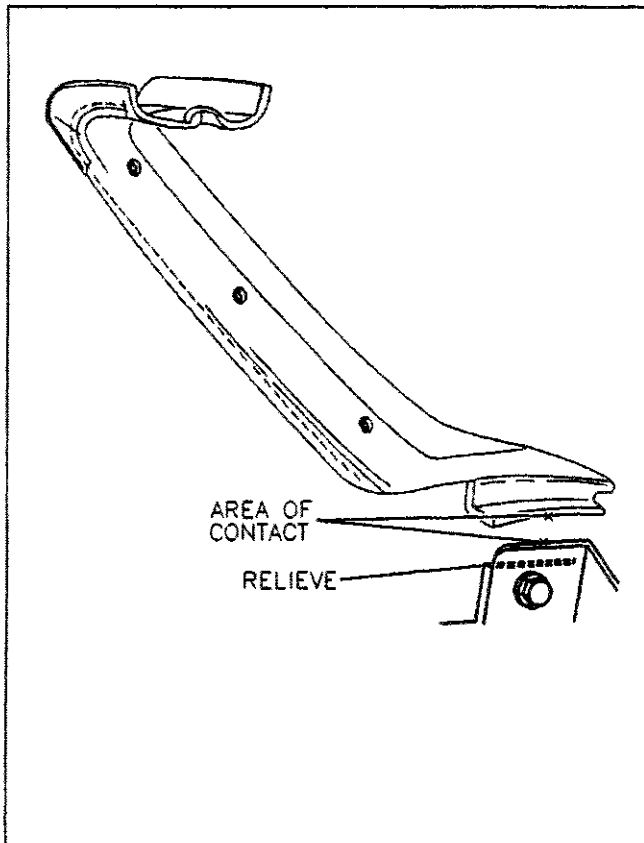


Figure 13 - Instrument Panel—Garnish Molding to Carrier Attachment.

Garnish Molding to Carrier Attachment

Symptom:

- Itch from lower drivers side “A” pillar.

Possible Cause:

- Garnish molding contacting Instrument Panel (I/P) carrier upper attachment.

Diagnosis:

- Road test listen for noise, remove I/P upper trim pad and inspect.

Corrective Action:

- Relieve upper edge of I/P carrier attaching tab to eliminate interference and isolate with felt tape.

Refer to SECTION 8C for I/P pad removal.

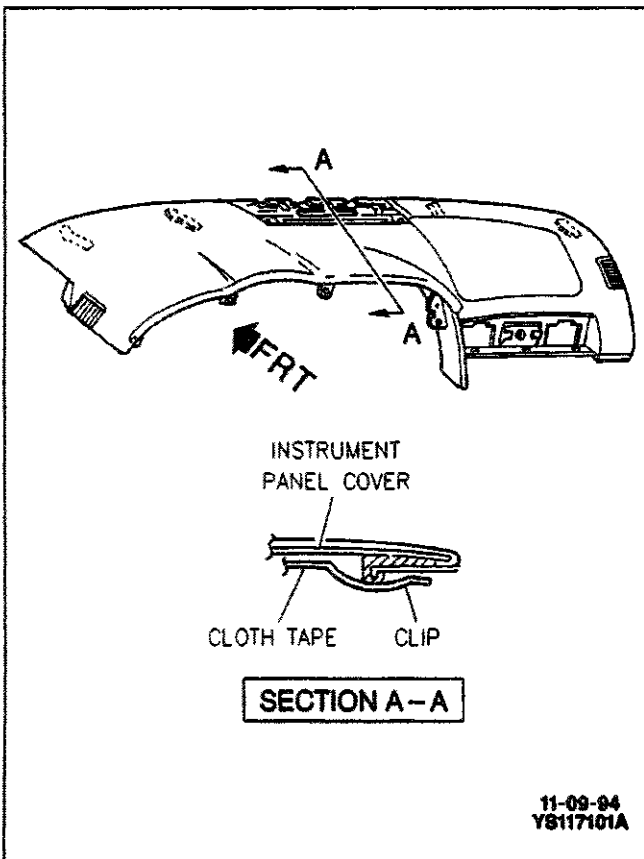


Figure 14 - Instrument Panel—Upper Trim Pad Retaining Clips

Upper Trim Pad Retaining clips

Symptom:

- Itch from Instrument Panel (I/P) upper trim pad at windshield.

Possible Cause:

- Trim pad retaining clips.

Diagnosis:

- Remove trim pad and check retaining clips for damaged or missing plastic coating.

Corrective Action:

- Install cloth tape completely around each trim pad retaining clip. Use caution not to bend clips.

Refer to SECTION 8C for trim pad removal.

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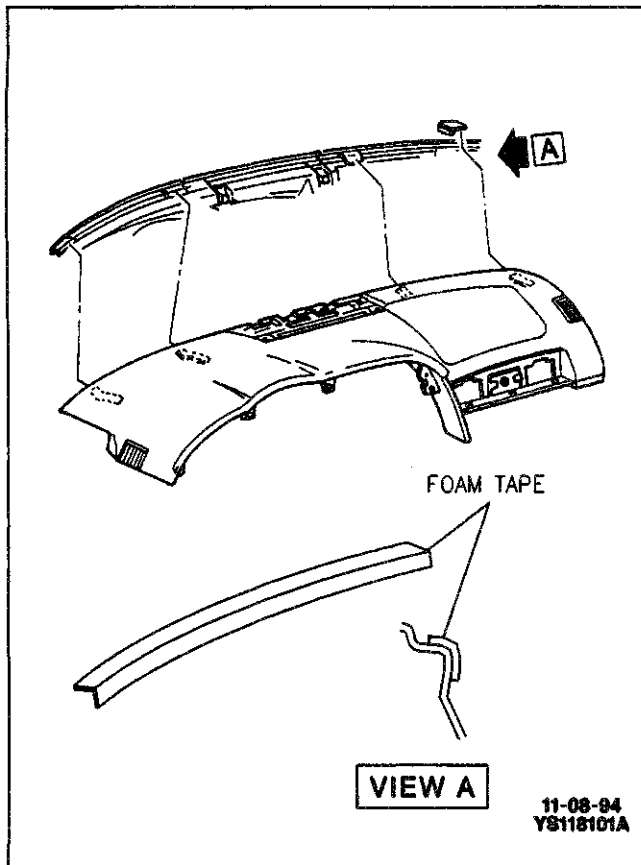


Figure 15 - Instrument Panel—Upper Trim Pad at Windshield

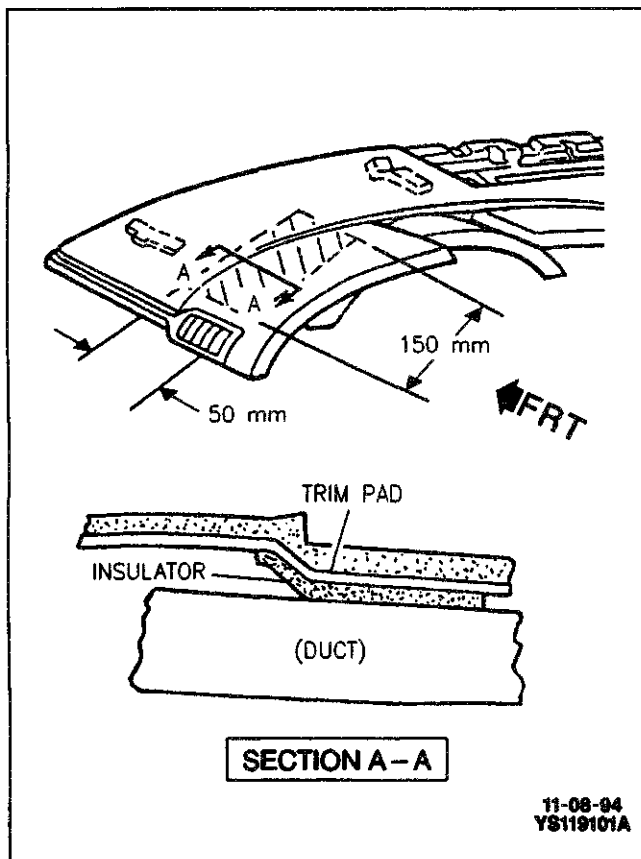


Figure 16 - Instrument Panel—Upper Trim Pad to A/C Duct

Upper Trim Pad at Windshield

Symptom:

- Rattle from instrument panel upper trim pad at windshield.

Possible Cause:

- Trim pad contacting windshield lower steel panel.

Diagnosis:

- While test driving, apply pressure to forward edge of trim pad and listen for noise to change.

Corrective Action:

- Add 4 mm thick 50 mm wide (3/16 x 2 inch) strip of foam tape full length of exposed metal surface of top and vertical surface of windshield lower frame, except defroster grill opening. Slit lower edge of foam at openings for I/P clips.

Refer to SECTION 8C for trim pad removal.

Upper Trim Pad to A/C Duct

Symptom:

- Rattle forward of instrument panel cluster.

Possible Cause:

- Top of air conditioning duct rattling on under side of upper trim pad.

Diagnosis:

- Remove upper trim pad and visually inspect.

Corrective Action:

- Install a foam pad 50 mm by 150 mm (2 inch by 6 inch) to underside of upper trim pad to insulate area of air conditioning duct contact.

Refer to SECTION 8C for upper trim pad removal.

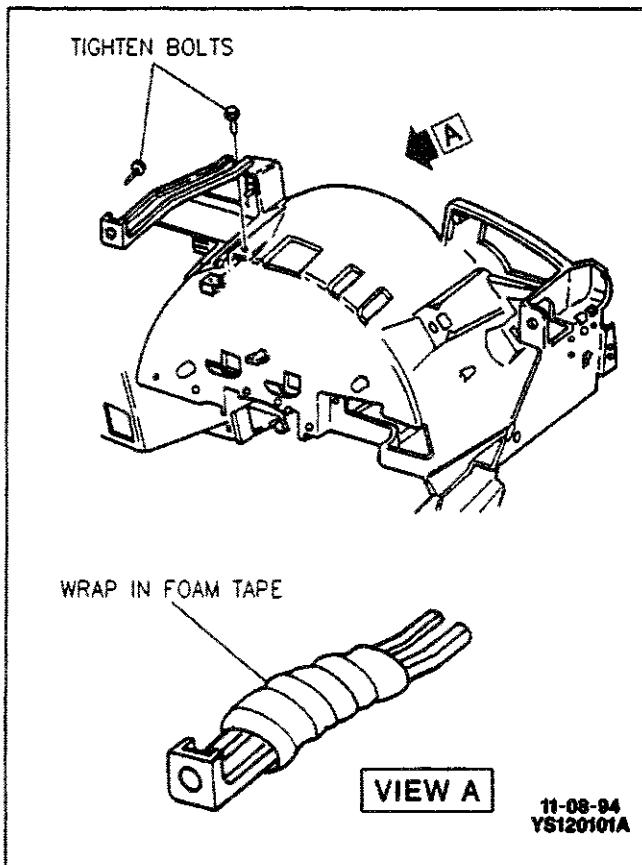


Figure 17 - Instrument Panel—Support Bracket

Support Bracket

Symptom:

- Buzz or rattle at driver's side of instrument panel (I/P).

Possible Cause:

- Loose instrument panel upper support bracket bolts and/or support bracket contacting upper trim pad or I/P.

Diagnosis:

- Remove I/P upper trim pad and visually inspect.

Corrective Action:

- Tighten bolts. Wrap bracket in foam tape.

Refer to SECTION 8C for upper trim pad removal.

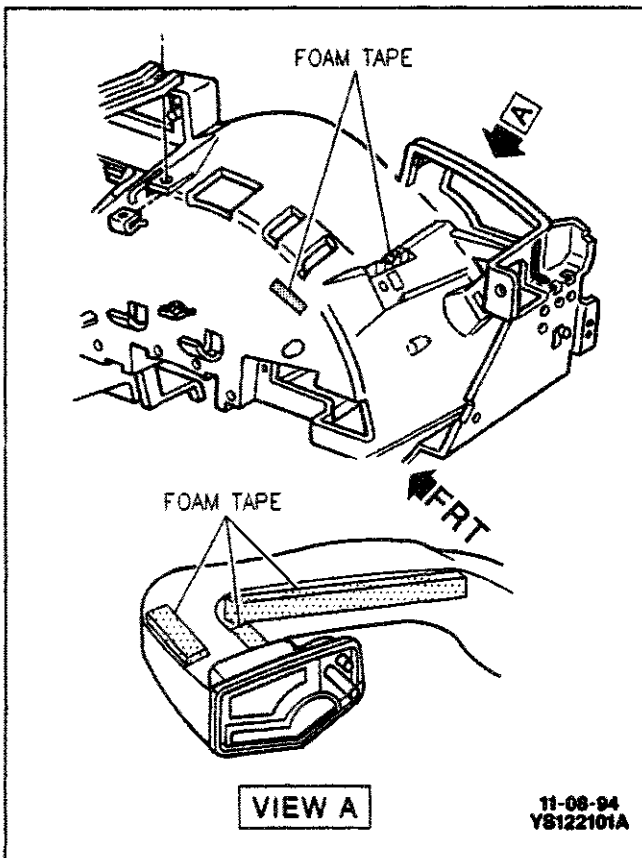


Figure 18 - Instrument Panel—Air Distribution Duct—LH

Air Distribution Duct—LH

Symptom:

- Rattle at top of Instrument Panel (I/P) near I/P cluster.

Possible Cause:

- A/C air distribution rattling on top of I/P.

Diagnosis:

- Remove I/P upper trim pad and visually inspect.

Corrective Action:

- Pull up on the air distribution duct and install a 3 mm (1/8 inch) thick foam tape insulator to the I/P and air duct in area of contact.

Refer to SECTION 8C for upper trim pad removal.

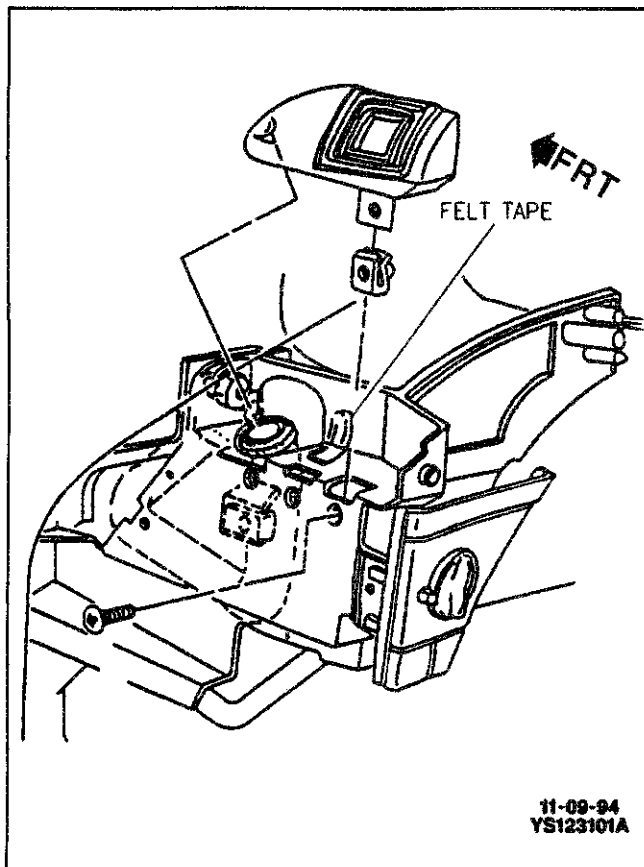


Figure 19 - Instrument Panel—Side Window Defogger Outlet

Side Window Defogger Outlet

Symptom:

- Buzz coming from left side of instrument panel.

Possible Cause:

- Side window defogger duct outlet buzzing on instrument panel.

Diagnosis:

- Remove the side window defogger duct outlet grill and apply pressure to the duct outlet while test driving.

Corrective Action:

- Remove instrument panel upper trim pad and side window defogger duct outlet. Install a 13 mm by 75 mm (1/2 inch by 3 inch) section of felt tape to the instrument panel where shown.

Refer to SECTION 8C for upper trim pad removal.

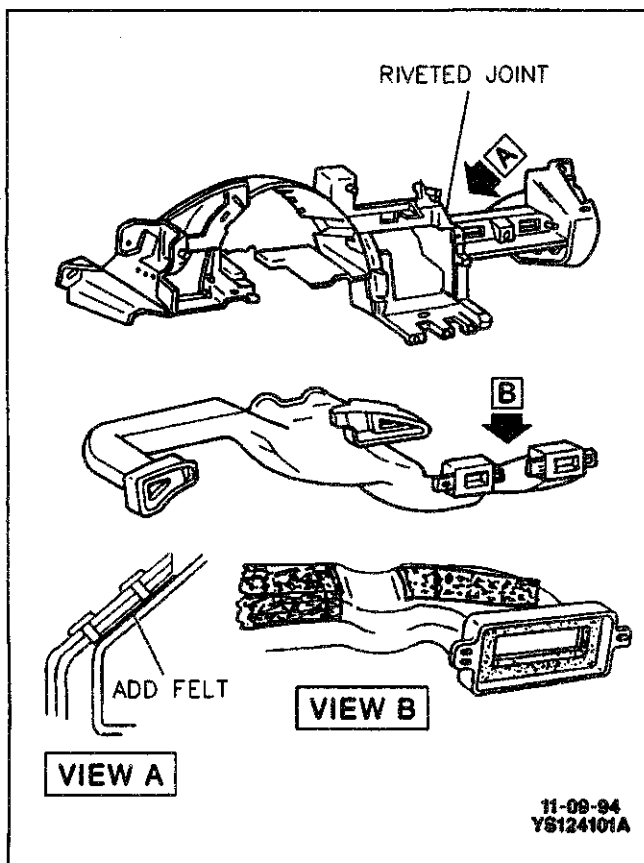


Figure 20 - Instrument Panel—Air Distribution Duct—RH

Air Distribution Duct—RH

Symptom:

- Rattle at passenger side of Instrument Panel (I/P).

Possible Cause:

- A. Air distribution duct contacting I/P riveted joint between center and right air outlets.
- B. Air distribution duct contacting air bag module.

Diagnosis:

- Remove I/P upper trim pad and visually inspect.

Corrective Action:

- A. Add felt tape under rivets between air duct and instrument panel as shown in "VIEW A."
- B. Add foam tape to air duct as shown in "VIEW B." If foam tape was previously installed, insure outboard and inboard foam insulators are positioned outward and inward respectively enough to prevent I/P to air bag module contact.

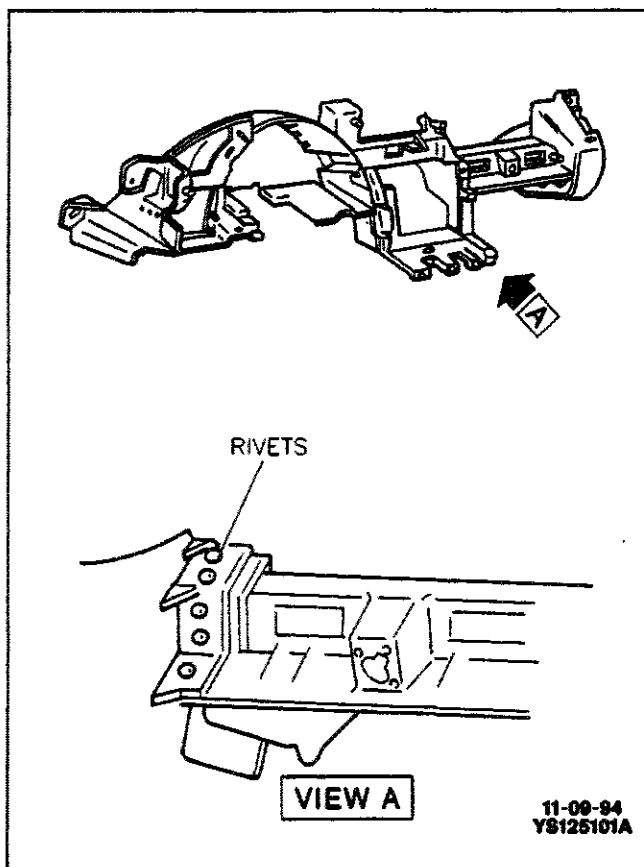


Figure 21 - Instrument Panel—Right Side Rivets

Right Side Rivets

Symptom:

- Buzz from passenger side of Instrument Panel (I/P).

Possible Cause:

- Loose rivets attaching I/P extension, or loose mandrel.

Diagnosis:

- Remove I/P upper trim pad and inspect.

Corrective Action:

- Replace loose rivets, or glue mandrels in place.

Refer to SECTION 8C for upper trim pad removal.

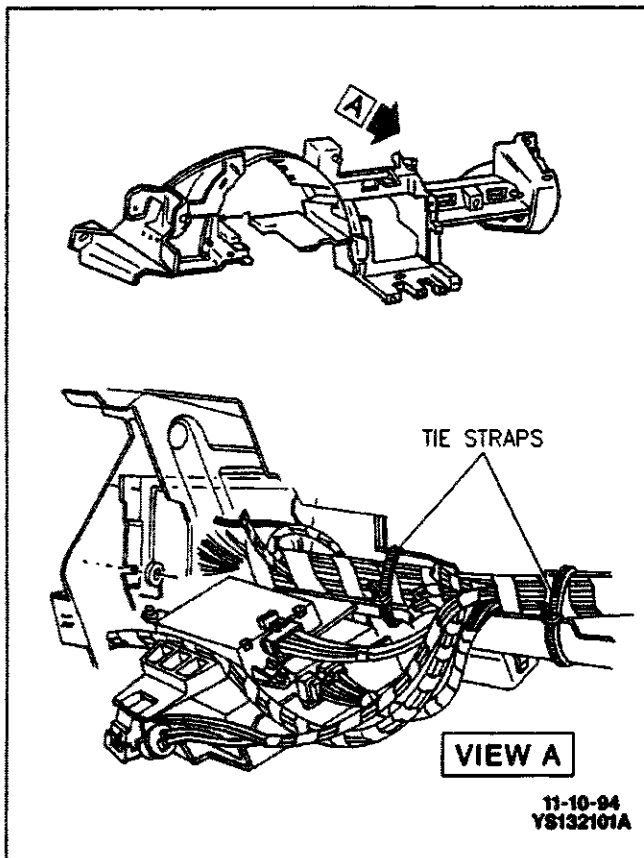


Figure 22 - Instrument Panel—Instrument Panel Harness

Instrument Panel Harness

Symptom:

- Rattle at passenger side of Instrument Panel (I/P).

Possible Cause:

- I/P wire harness bouncing on multi-use relay bracket.

Diagnosis:

- Check for loose or missing tie straps.

Corrective Action:

- Replace tie straps.

Refer to SECTION 8B for lower trim panel and knee bolster removal procedures.

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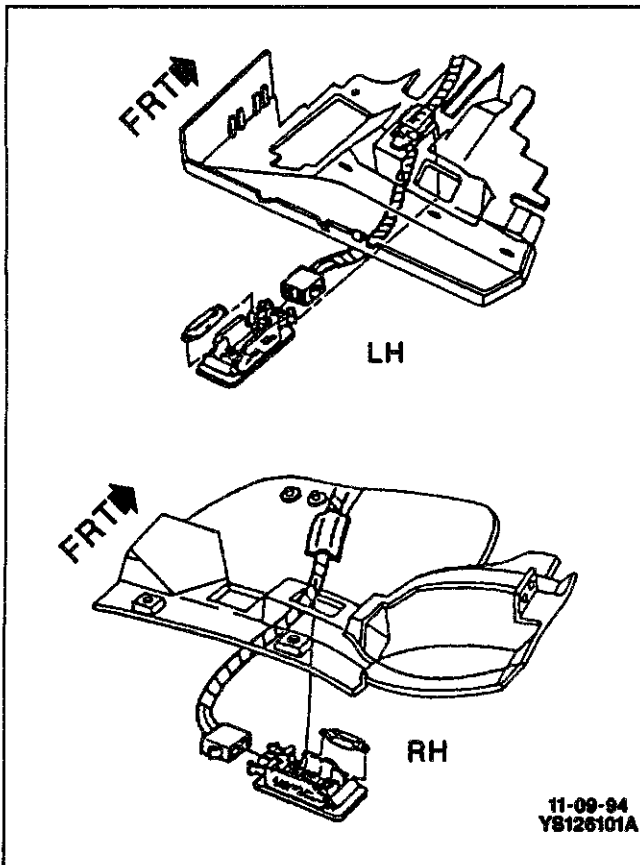


Figure 23 - Instrument Panel—Courtesy Lamp Bulb

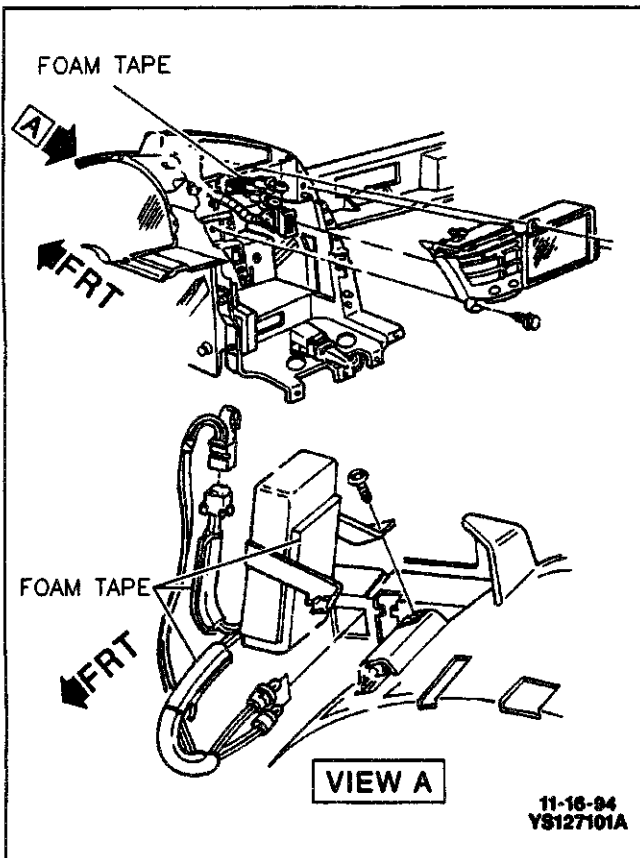


Figure 24 - Instrument Panel—LTPWS Module

Courtesy Lamp Bulb

Symptom:

- Buzz coming from under instrument panel.

Possible Cause:

- Courtesy lamp bulb holder loose.

Diagnosis:

- Tap on lamps with finger and listen for buzz.

Corrective Action:

- Replace lamp assembly.

Refer to SECTION 8C for courtesy lamp removal.

LTPWS Module

Symptom:

- Rattle at center of Instrument Panel (I/P).

Possible Cause:

- Low Tire Pressure Warning System (LTPWS) module and/or associated wiring contacting I/P.

Diagnosis:

- Road test. Remove I/P upper trim pad. Visually inspect. Tap on module and wires with finger. Listen for rattle.

Corrective Action:

- Wrap wires to module and wires from module to Driver Information Center with foam tape at I/P contact points. Position foam tape on module as shown and between module and I/P.

Refer to SECTION 8C for I/P upper trim pad removal.

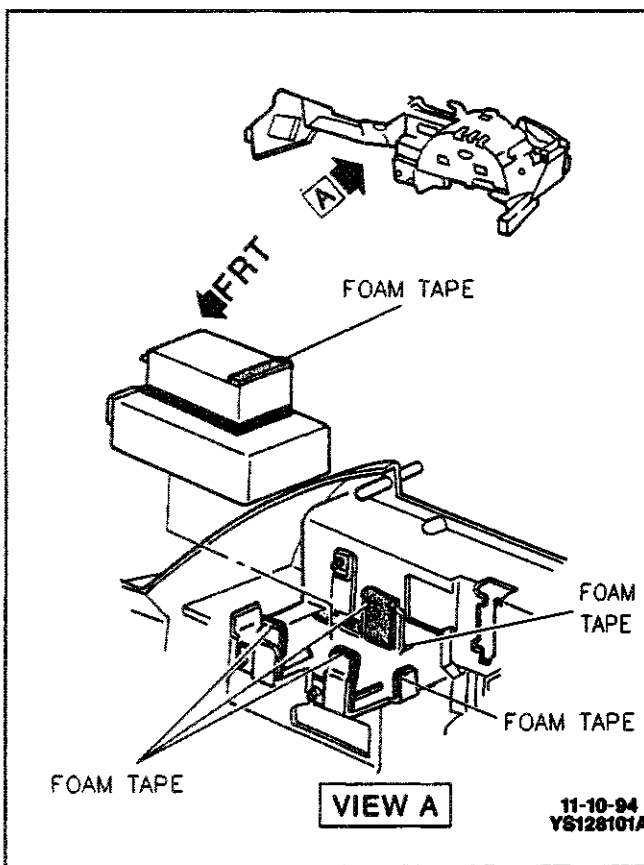


Figure 25 - Instrument Panel—PKE Module

PKE Module

Symptom:

- Rattle at center of instrument panel.

Possible Cause:

- Passive Keyless Entry (PKE) module loose in bracket and/or module or bracket contacting air duct.

Diagnosis:

- Road test with upper trim pad removed. Apply pressure to module to see if rattle stops.

Corrective Action:

- Add foam tape between bracket and air duct, bracket and module, and module and air duct.

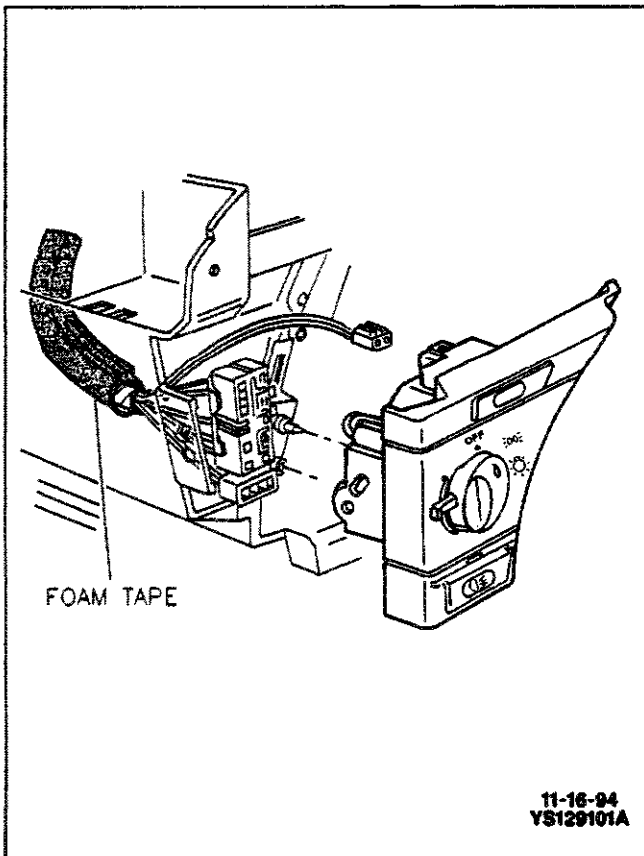


Figure 26 - Instrument Panel—Headlamp Switch Harness

Headlamp Switch Harness

Symptom:

- Rattle at left side of Instrument Panel (I/P) near headlamp switch.

Possible Cause:

- Headlamp switch wire harness contacting I/P.

Diagnosis:

- Remove headlamp switch and visually inspect.

Corrective Action:

- Wrap headlamp switch wire harness with foam tape as shown.

Refer to SECTION 8C for switch removal procedure.

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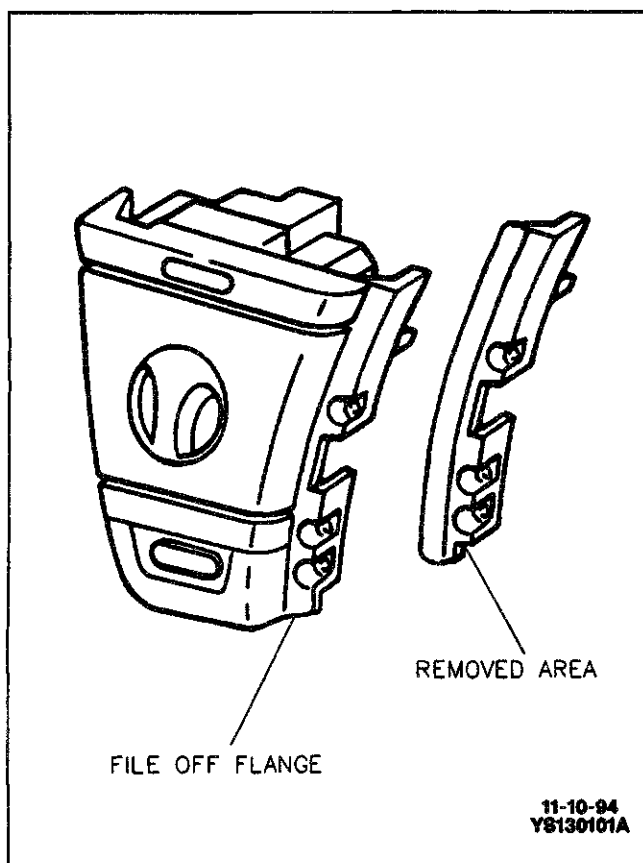


Figure 27 - Instrument Panel—Headlamp Switch

Headlamp Switch

Symptom:

- Itch at left side of instrument panel cluster.

Possible Cause:

- Headlamp switch contacting instrument panel cluster trim plate.

Diagnosis:

- While testing driving, apply downward pressure to corner of trim plate and see if itch stops.

Corrective Action:

- Remove headlamp switch and file down flange as illustrated.

Cluster Trim Plate

Symptom:

- Squeak, rattle, buzz, itch, from Instrument Panel (I/P) cluster.

Possible Cause:

- Cluster trim plate contacting I/P.
- Cluster trim plate contacting cluster.
- Cluster lens contacting I/P.
- Cluster trim plate contacting headlamp switch. Refer to "Instrument Panel—Headlamp Switch."

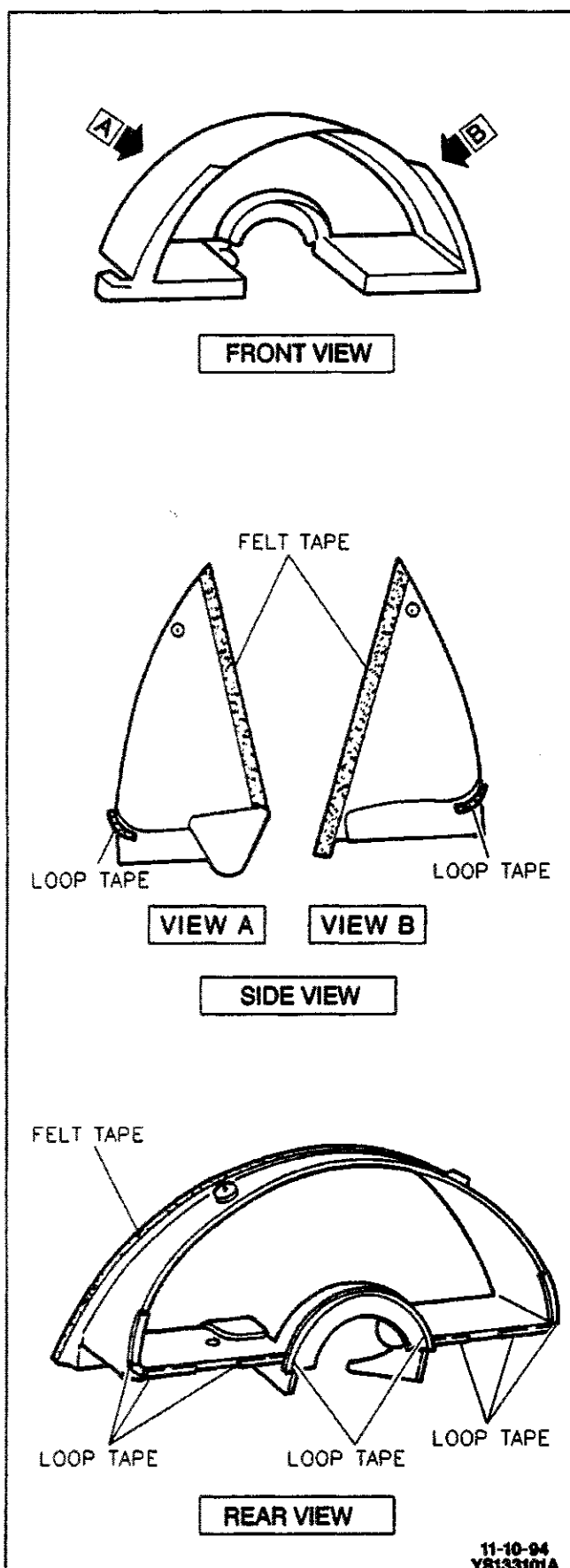
Diagnosis:

- Test drive. Apply pressure to trim plate. Listen for noise to change.
- Visually inspect.

Corrective Action:

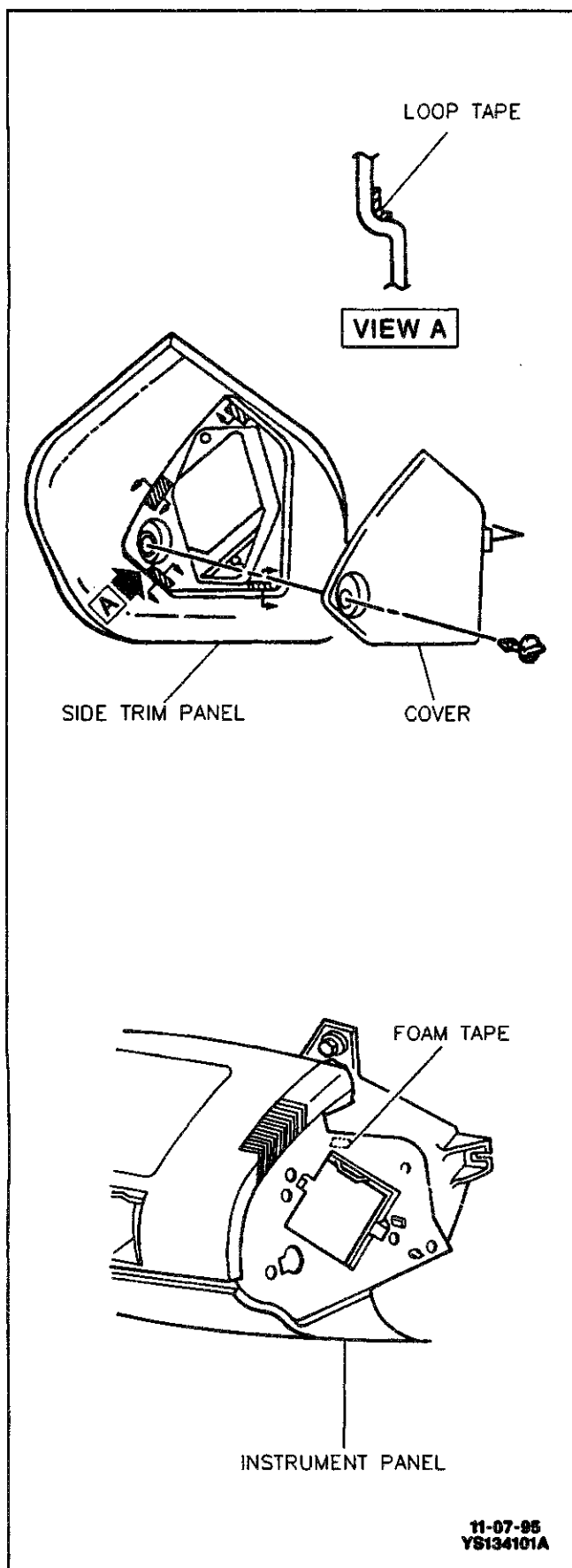
- Remove cluster trim plate.
- Install loop portion of hook and loop tape in 50 mm (2 inch) long strips to rear of trim plate as shown in rear view.
- Install loop tape around steering column opening as shown in rear view.
- Install felt tape behind front upper edge of trim plate as shown in side and rear views.
- Install tape just up to the edge so that it does not show when trim plate is installed.

Refer to SECTION 8C for trim plate removal.



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Figure 28 - Instrument Panel—Cluster Trim Plate



Fuse Box Rivets and Cover

Symptom:

- Buzz at right side of instrument panel.

Possible Cause:

- Fuse box cover vibrating against instrument panel side trim panel.
- Instrument panel side trim panel contacting fuse box rivet heads.

Diagnosis:

- Tap on cover with finger and listen for buzz.
- Remove side trim panel and test drive to verify buzz has stopped.

Corrective Action:

- Remove fuse box cover and apply 6 mm by 25 mm (1/4 inch by 1 inch) section of hook and loop tape (loop portion) to side trim panel where cover makes contact.
- Remove side trim panel and install 6 mm (1/4 inch) foam tape between rivet heads on instrument panel and side trim panel.

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Figure 29 - Instrument Panel—Fuse Box Rivets and Cover

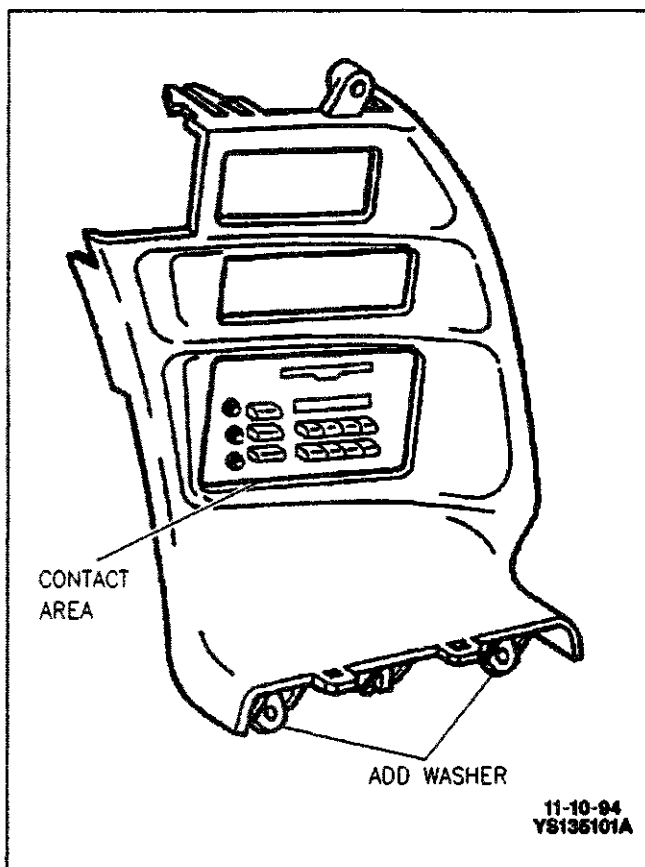


Figure 30 - Console—Radio Control

CONSOLE

Radio Control

Symptom:

- Itch bottom of radio control to instrument panel (I/P) accessory trim plate.

Possible Cause:

- Radio control contacting I/P accessory trim plate.

Diagnosis:

- Road test insert index card between radio and I/P accessory trim plate. Listen for noise to stop.

Corrective Action:

- Remove accessory trim plate, hot glue a 1 mm (3/64 inch) thick flat washer to back side of lower trim plate mounting tabs.

Refer to SECTION 8C for I/P accessory trim plate removal.

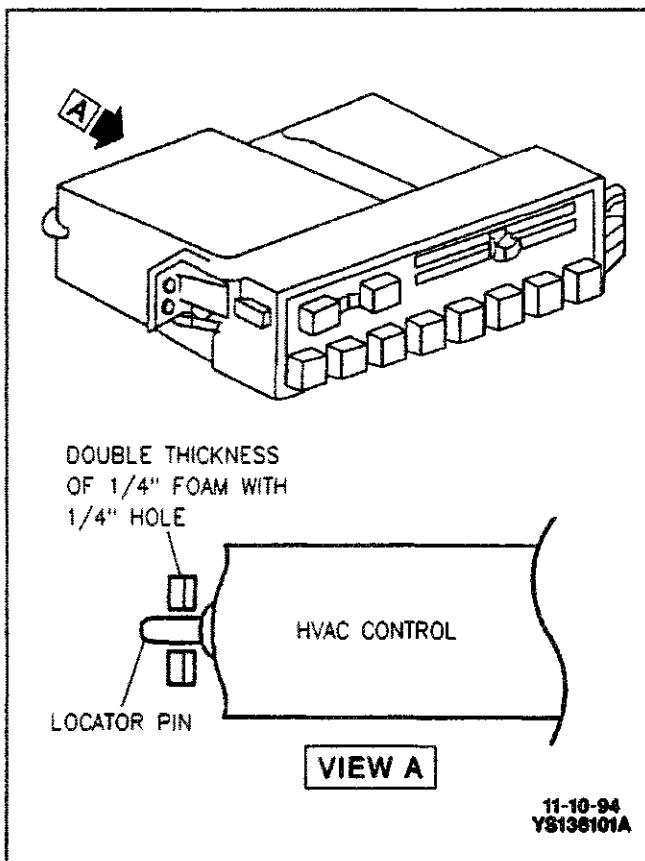


Figure 31 - Console—HVAC Control

HVAC Control

Symptom:

- Buzz coming from center of dash.

Possible Cause:

- Heating, Ventilation and Air Conditioning (HVAC) control locator pin.

Diagnosis:

- While test driving, apply pressure to the HVAC control and listen for the buzz to change.

Corrective Action:

- Remove the HVAC control and apply a double thick 6 mm (1/4 inch) section of foam tape with a 6 mm (1/4 inch) hole around the locator pin.

Refer to SECTION 8C for HVAC control removal.