

TOYOTA

SERVICE BULLETIN

TOYOTA MOTOR SALES, U.S.A., INC.

VOLUME

10

| | |
|-----------|---|
| REFERENCE | <u>HEATING & AIR</u> <u>CONDITIONING</u> |
| NUMBER | <u>006</u> |
| DATE | <u>05-19-89</u> |
| MODEL | <u>'89 MX</u> |

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AUTOMATIC A/C PERFORMANCE

To improve A/C performance, the following production change has been made:

1. The air flow volume at low blower speed has been increased to improve cool down performance.
2. The solar sensor has been repositioned to improve sunlight sensitivity.
3. The ambient sensor has been relocated and shielded to prevent hot air from the engine compartment from contacting the sensor.

PRODUCTION EFFECTIVE:

| | |
|-------------------|------------------------|
| <u>VIN #</u> | <u>PRODUCTION DATE</u> |
| JT2MX83E-K0029349 | MAY, 1989 |

PART NUMBER INFORMATION:

| <u>PREVIOUS PART NO.</u> | <u>NEW PART NO.</u> | <u>PART NAME</u> |
|--------------------------|---------------------|------------------------------------|
| 87161-22011 | 87161-22020 | AMPLIFIER, HEATER SERVO MOTOR |
| 88625-22140 | 88625-22141 | THERMISTOR COOLER (SOLAR SENSOR) |
| 88625-22150 * | 88625-22151 | THERMISTOR COOLER (AMBIENT SENSOR) |
| _____ | 91655-F0616 | BOLT FOR AMBIENT SENSOR |

SERVICING PROCEDURE:

To improve A/C performance of vehicles produced prior to frame no. JT2MX83E-K0029349 use the following parts:

- | <u>PART NO.</u> | <u>PART NAME</u> |
|-------------------|------------------------------------|
| 1. 87161-22020 | AMPLIFIER, HEATER SERVO MOTOR |
| 2. 88625-22141 | THERMISTOR COOLER (SOLAR SENSOR) |
| 3. 88625-22200 * | THERMISTOR COOLER (AMBIENT SENSOR) |
| 4. 88625-22151 ** | THERMISTOR COOLER (AMBIENT SENSOR) |
| 5. 91655-F0616 ** | BOLT FOR AMBIENT SENSOR |

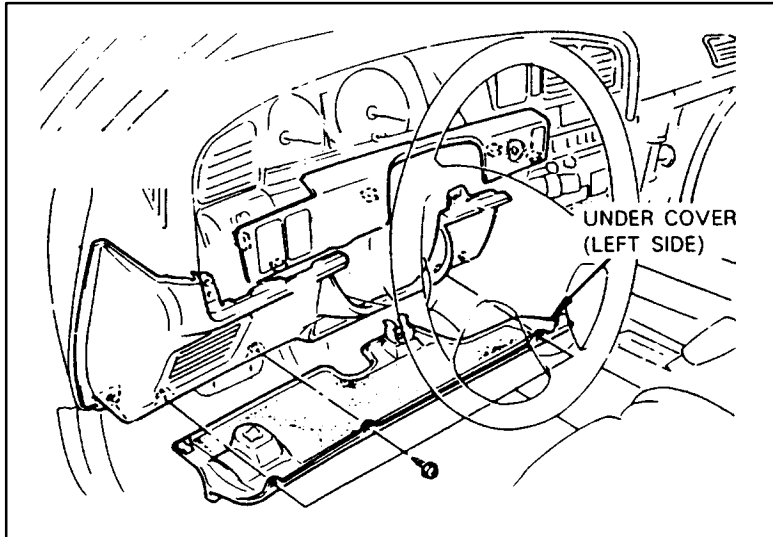
* THIS PART CAN BE USED ONLY FOR VEHICLES PRIOR TO FRAME NO. JT2MX83E-K0023199.

** THESE PARTS ARE FOR VEHICLES BETWEEN FRAME NO. JT2MX83E-K0023200 AND FRAME NO. JT2MX83E-K0029348.

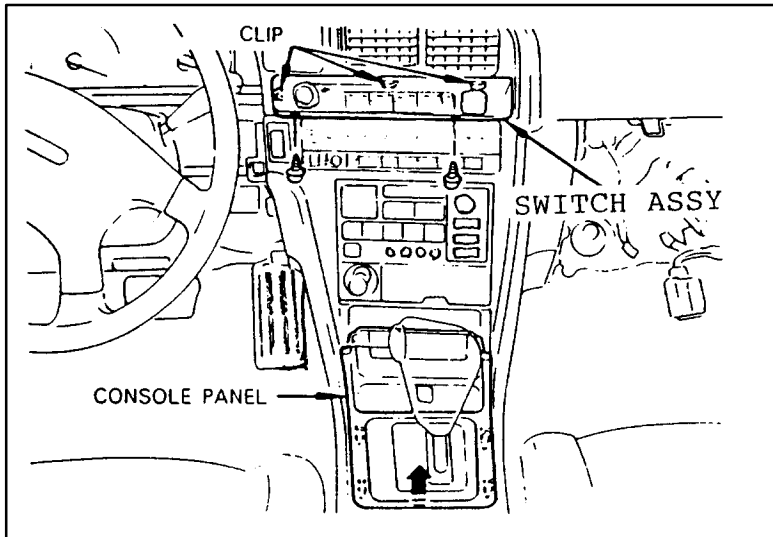
CRESSIDA AUTOMATIC A/C PERFORMANCE (Cont'd)

INSTALLATION PROCEDURE:

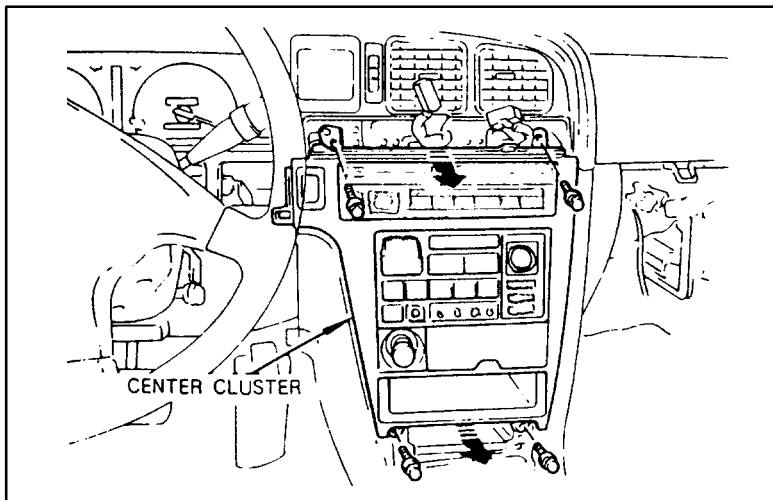
HEATER SERVO MOTOR AMPLIFIER (P/N 87161-22020)



- a) Remove the under cover from the left side.



- b) Remove the Audio switch assembly and the center console panel (4 clips).
- c) Remove Cupholder (2) screws and Cupholder assembly.

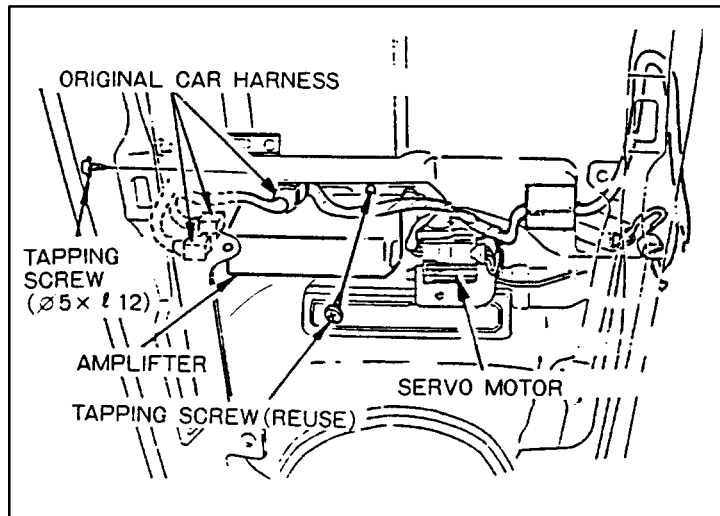


- d) Remove the center cluster panel assembly (4 capscrews) and right side of instrument cluster near ignition key.
- e) Lift up and remove center cluster assembly.

Note: Be careful of wiring harnesses connected to cluster assembly and right cluster assembly.

CRESSIDA AUTOMATIC A/C PERFORMANCE (Cont'd)

HEATER SERVO MOTOR AMPLIFIER INSTALLATION (CONT'D)

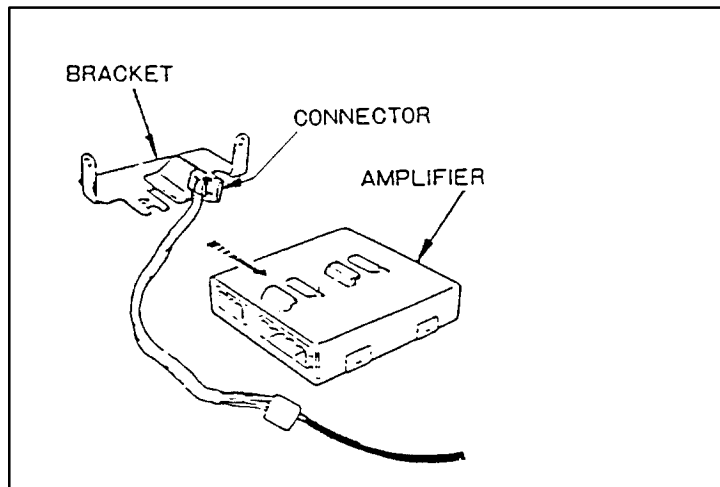


f) Disconnect the two connectors from the amplifier and one connector from the original harness.

* **Note:** If CD equipped, remove the amplifier first.

g) Remove the (2) tapping screws from the amplifier bracket.

h) Remove amplifier with bracket assembly.

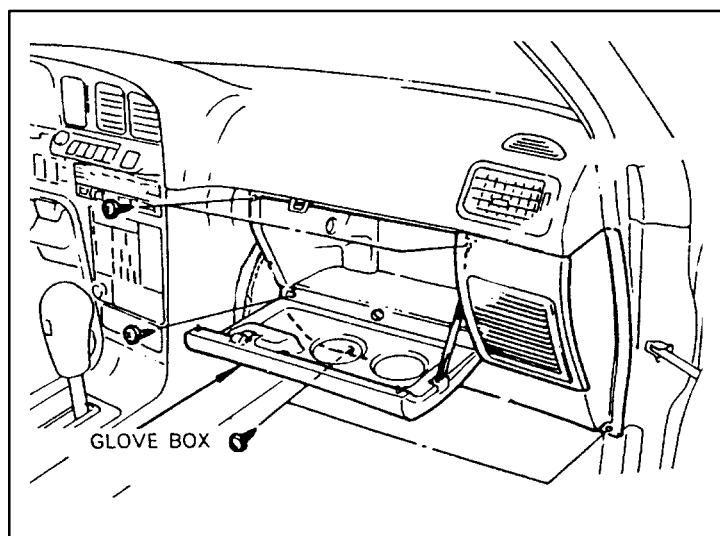


i) Remove the bracket with sub-harness from the amplifier.

j) Assemble the bracket with sub-harness to the new amplifier.

k) Install the amplifier into the original location.

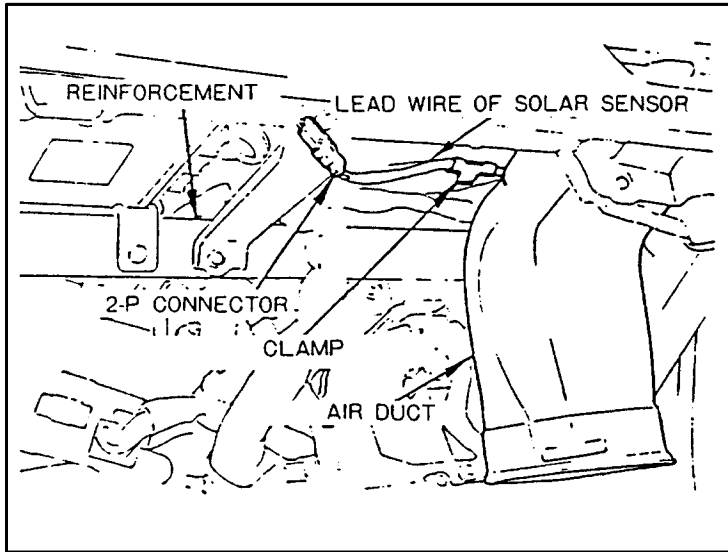
SOLAR SENSOR ASSEMBLY (P/N 88625-22141)



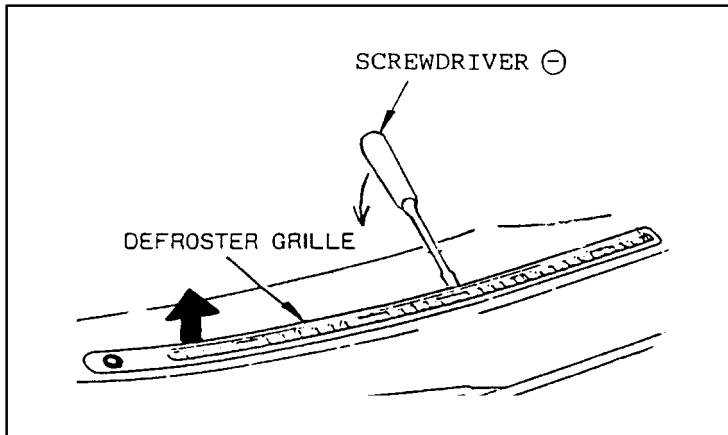
a) Remove the glove box assembly.

CRESSIDA AUTOMATIC A/C PERFORMANCE (Cont'd)

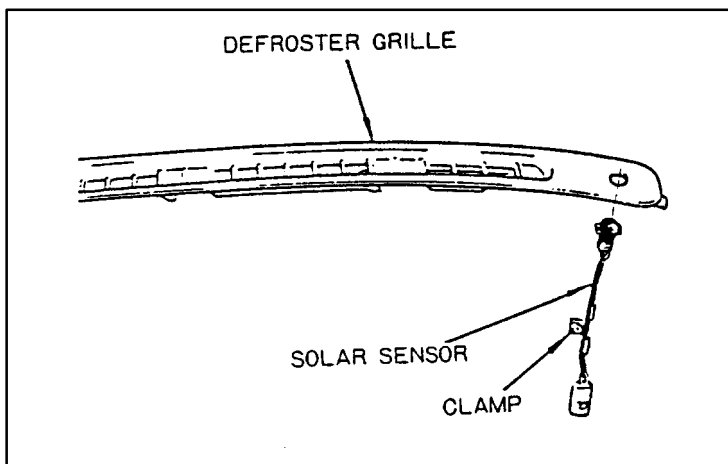
SOLAR SENSOR ASSEMBLY (CONT'D)



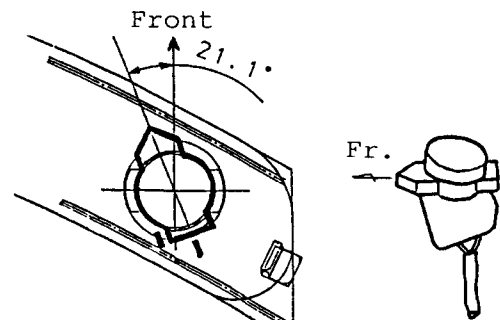
- b) Disconnect the 2-pin connector of Solar Sensor from the original harness.
- c) Remove the lead wire clamp of the Solar Sensor from the defroster duct.



- d) Remove the defroster grille using a screwdriver. Be careful not to crack the grille assembly.

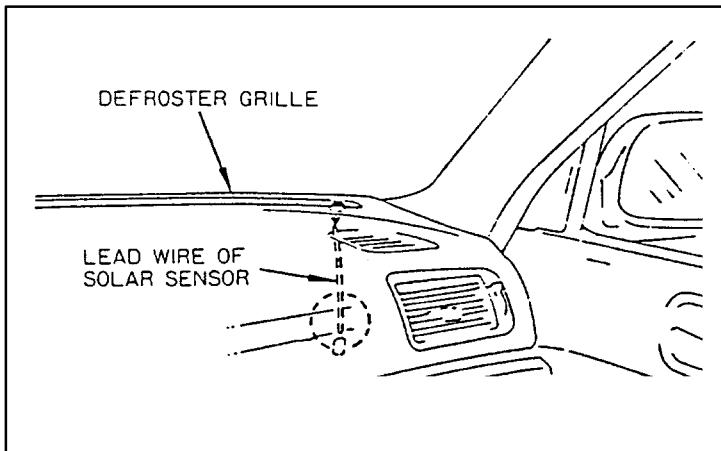


- e) Remove the original Solar Sensor.
- f) Install the new Solar Sensor into the defroster grille. Make sure the arrow of sensor is pointing towards the front of vehicle (as shown below).

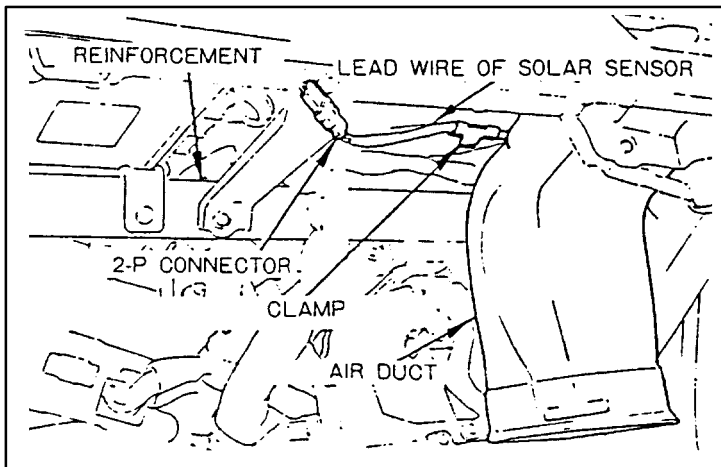


CRESSIDA AUTOMATIC A/C PERFORMANCE (Cont'd)

SOLAR SENSOR INSTALLATION (CONT'D)

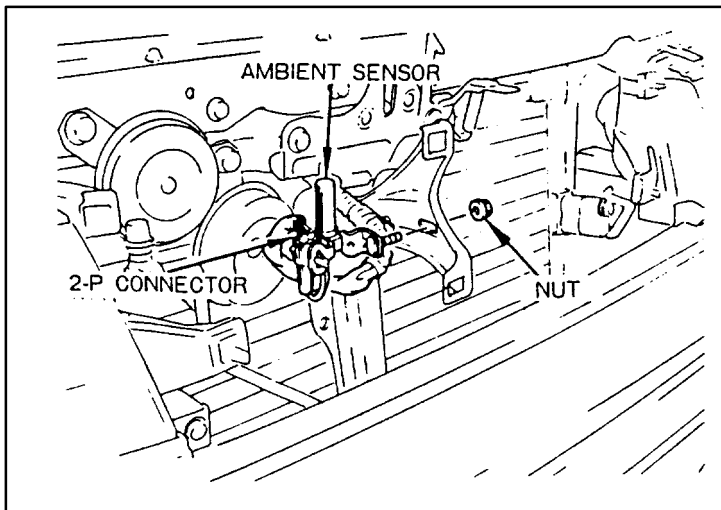


- g) Pass the lead wire of Solar Sensor through the original access hole, and reinstall the defroster grille.



- h) Route and connect the 2-pin connector of Solar Sensor to the original harness.
- i) Fasten the lead wire of Solar Sensor to the underside of the defroster duct with the clamp provided on the harness.

AMBIENT SENSOR INSTALLATION (P/N 88625-22200)



- a) Disconnect the 2-pin connector and remove the original ambient sensor from the center brace.

CRESSIDA AUTOMATIC A/C PERFORMANCE (Cont'd)

AMBIENT SENSOR INSTALLATION (CONT'D)

- b) Install the new Ambient Sensor as shown on the left without fastening nut.
- c) Insert the clamp in the hole (8.5 mm) at the lower side of the center brace.
- d) Install new Ambient Sensor to the lower stud of condenser and fasten with original nut.

