



Technical Service
BULLETIN

May 9, 1997

Title:

AIR CONDITIONING EVAPORATOR ODOR

Models:

All Models

T S B

AC002-97

HEATING & AIR CONDITIONING

Introduction

A musty odor may be emitted from the air conditioning system of some vehicles which are usually operated in areas with high temperature and humidity. It is most noticeable when the air conditioner is first turned "ON" after the vehicle has been parked for several hours. The odor could result from one or more of the following conditions:

1. Blockage of the evaporator housing drain pipe, resulting in the build up of condensate.
2. Microbial growth in the evaporator, arising from dampness in the evaporator housing where the cooling air flow is dehumidified.

To address excessive air conditioning evaporator odor, check the evaporator housing drain pipe for blockage. If no problems are found, the evaporator and housing should be cleaned and disinfected using the general procedure given on page 2, and the model specific procedure on the pages indicated in the Table of Contents at the bottom of this page.

Affected Vehicles

- While this procedure may be used on any Toyota vehicle, this bulletin gives details specifically for the **AE100** Corolla, **SXV/VCV10** Camry, **MCX10** Avalon, **MX83** Cressida, **AT180/200** Celica, **ST184/204** Celica, **JZA80** Supra, **EL42/44/53** Tercel/Paseo, **TCR10/20** Previa, **FZJ80** Land Cruiser series as well as recent production Truck, Tacoma, T100, 4Runner and MR2 models.

Tools & Materials

PART NUMBER	DESCRIPTION OF TOOLS & MATERIALS	QUANTITY	SOURCE
08821-00810-01	Spray Gun Kit	1	OTC
08821-00811-01	Spray Gun (replacement)	(1)	OTC
08821-00812-01	Spray Gun Nozzle (replacement)	(1)	OTC
08821-00813-01	Freshener Mixing Container (replacement)	(1)	OTC
08821-00801-DS	Air Conditioning Freshener	1 per vehicle	TMS

CAUTION:

Wear safety glasses, protective mask, and gloves while working with the freshener.

Table of Contents

MODEL	PAGE	MODEL	PAGE	MODEL	PAGE	MODEL	PAGE
General	2	Cressida	6	Tercel	8	4Runner	9
Camry	3	Celica	7	Paseo	8	Truck	9
Corolla	4	Supra	7	MR2	9	Tacoma	9
Avalon	6	Previa	8	Land Cruiser	9	T100	9

General Procedure applies to all models and model years.
The Specific Model Sections cover only the most recent models.



General Procedure

1. Preparation of freshener solution:
 - (a) Invert freshener container and shake vigorously for 30 seconds.
 - (b) Mix 3.4 fl. oz. of freshener (1 container) with 30 fl. oz. to make 1 qt. of solution.
2. Drying the evaporator:
 - Dry the evaporator for 10 minutes with the following settings:
 - AC: Off**
 - Air Outlet: Foot**
 - Mode: Recirc.**
 - Blower: High**
 - Temp: Max Warm**
3. Evaporator Treatment Preparation:
 - (a) Ensure availability of 30–45 psi compressed air to be used with spray gun for application of freshener.
 - (b) Place a tray under the evaporator housing drain hose to collect used cleaning solution.
 - (c) Place shop cloth under the evaporator housing in the vehicle to prevent cleaning solution from dripping onto the floor mat.

4. Vehicle Preparation: **See specific model section.**

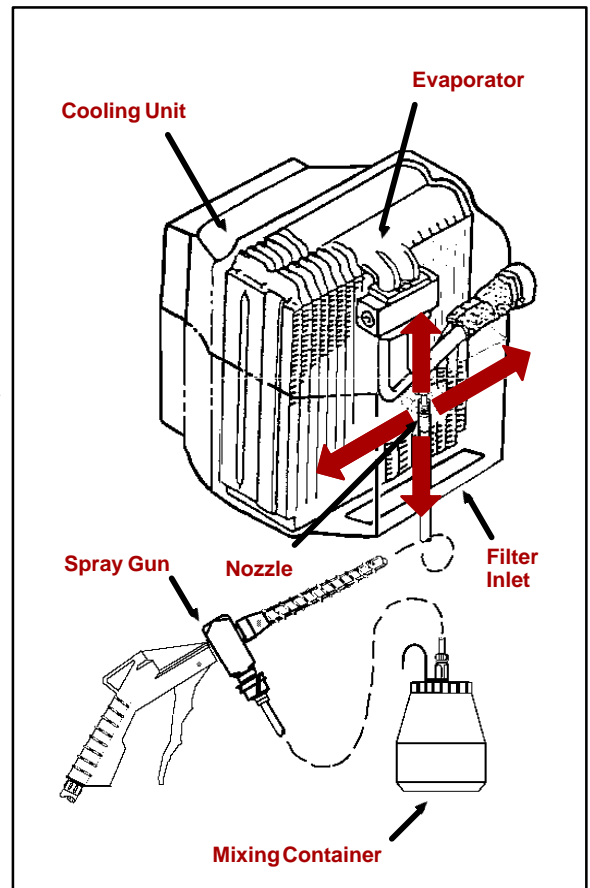
5. Evaporator treatment:

- (a) Set HVAC mode as follows:
 - AC: Off**
 - Air Outlet: Face**
 - Mode: Fresh**
 - Blower: High**
 - Temp: Max Warm**
 - Windows: Open**
- (b) Insert spray nozzle into the filter inlet and spray the entire quantity (1 qt.) of freshener solution into the evaporator while moving the nozzle around to cover the complete evaporator surface.
- (c) Turn the blower OFF.

6. Reinstallation of Parts.

7. Completion of Treatment.

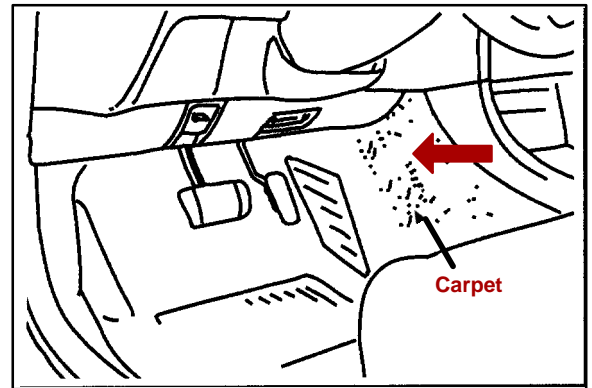
- (a) Dry the evaporator for 30 minutes with the following settings:
 - AC: Off**
 - Air Outlet: Foot**
 - Mode: Recirc.**
 - Blower: High**
 - Temp: Max Warm**
 - Windows: Closed**
- (b) If vehicle still has alcohol smell, open windows for ventilation. Do not turn on the AC switch until the evaporator is completely dry as this can reduce the effectiveness of the solution.



CAUTION
Do not get into the vehicle during this drying operation.

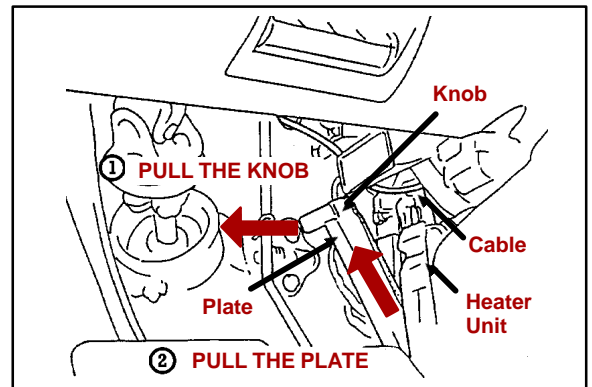
Camry
(SXV/VCV10)

1. Removal of parts.
 - (a) Pull down the carpet from the center console as indicated by red arrow in the illustration.

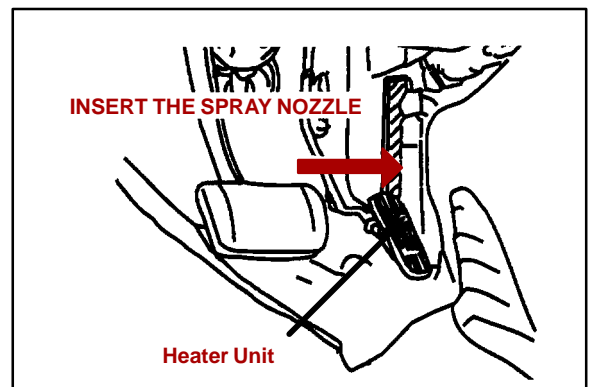


- (b) Remove the plate on the side of the heater unit using steps and, indicated with red arrows to show direction, in the illustration.

CAUTION:
 1. Do not bend the cable.
 2. The plate will be reused.

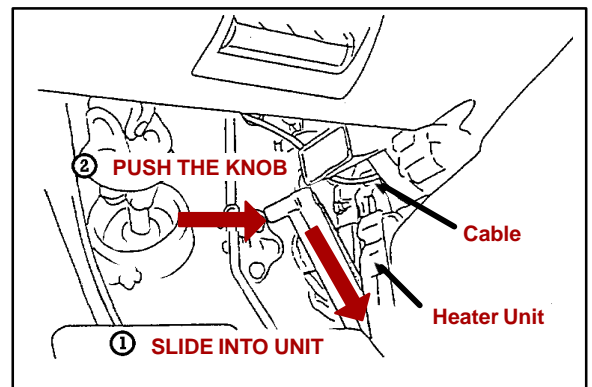


- (c) Remove the blower resistor.
2. Cleaning the Evaporator.
 - Follow the general procedures given on page 2.



3. Reinstallation of parts.
 - (a) Reinstall the plate on the side of the heater unit using steps and, indicated with red arrows to show direction, in the illustration.

CAUTION:
 Confirm that the plate is secure.



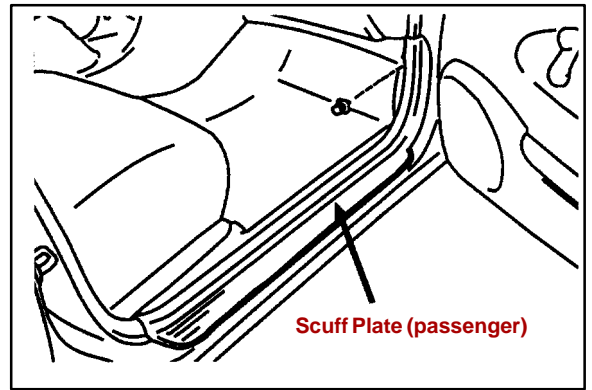
- (b) Restore the carpet to its original position taking care not to bend the cable.

Corolla

1. Removal of parts.

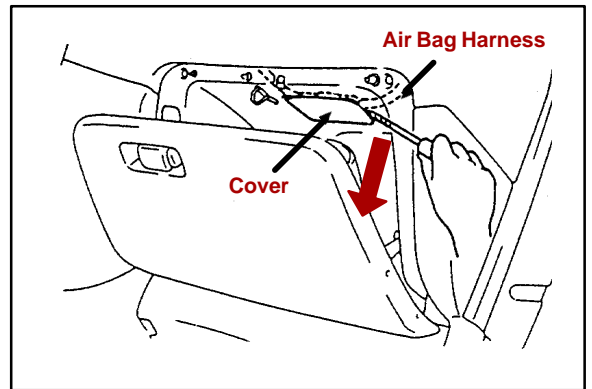
(AE100)

- (a) Remove the scuff plate from the passenger side door sill.



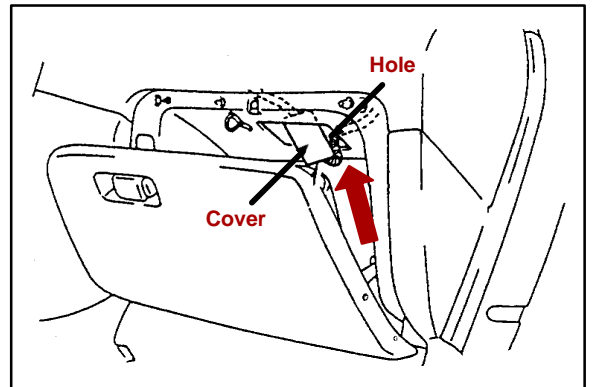
- (b) Open the glove box door and temporarily remove the Air Bag Harness Cover as shown in the illustration.

CAUTION:
Do not disconnect the Air Bag Harness.

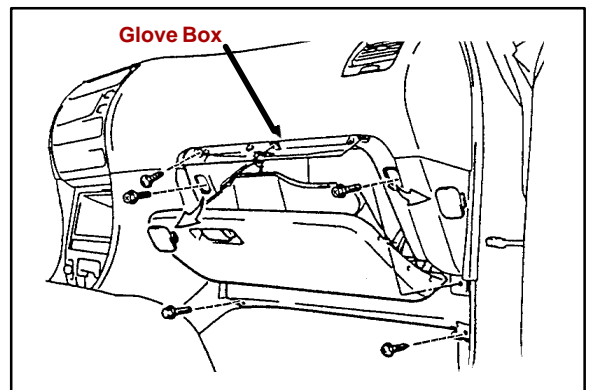


- (c) Pass the cover up through the hole.

CAUTION:
Take care not to pinch the Air Bag Harness when reinstalling the cover.



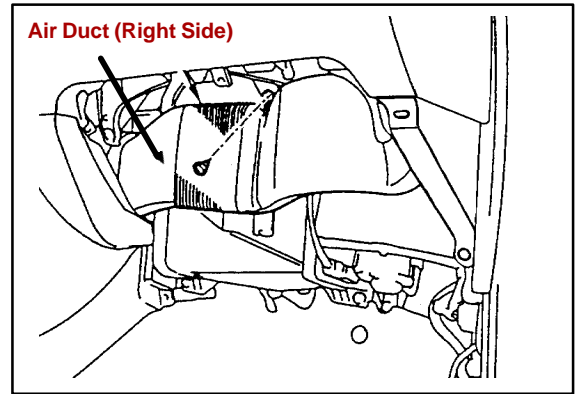
- (d) Remove the glove box.



Corolla

(e) Remove the passenger side air duct.

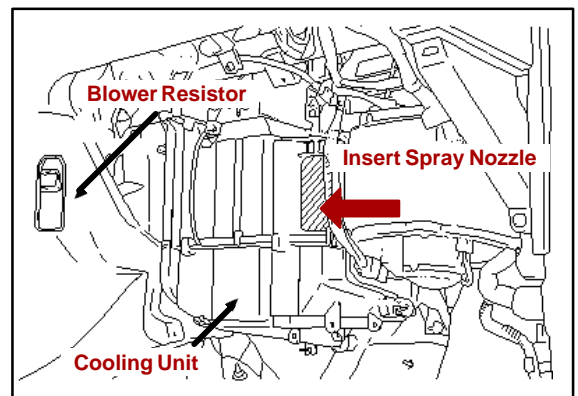
continued



(f) Remove the blower resistor to allow access for the spray nozzle (insert at red arrow).

2. Cleaning the Evaporator.

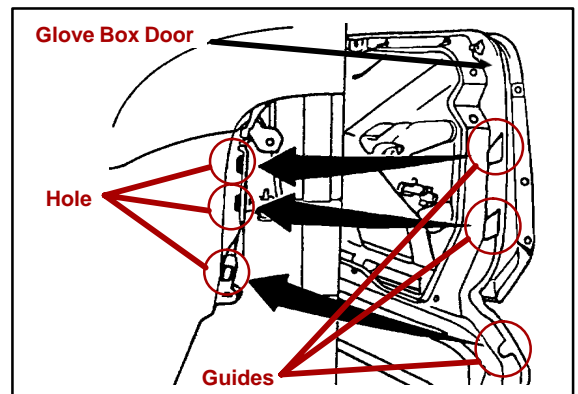
- Follow the general procedures given on page 2.



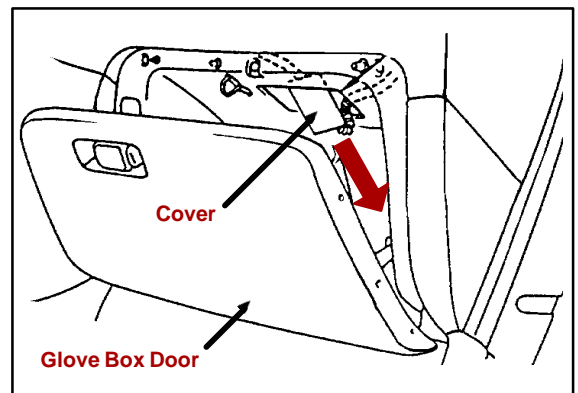
3. Reinstallation of parts.

- Reinstall the parts in the reverse order of removal described in step 1.

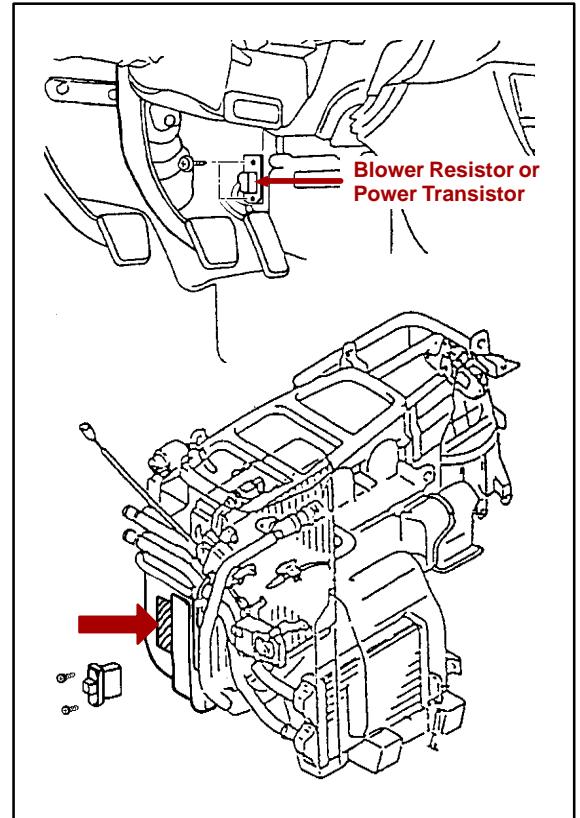
CAUTION:
Make sure that the three guides of glove box are inserted back into the three holes as shown in the illustration.



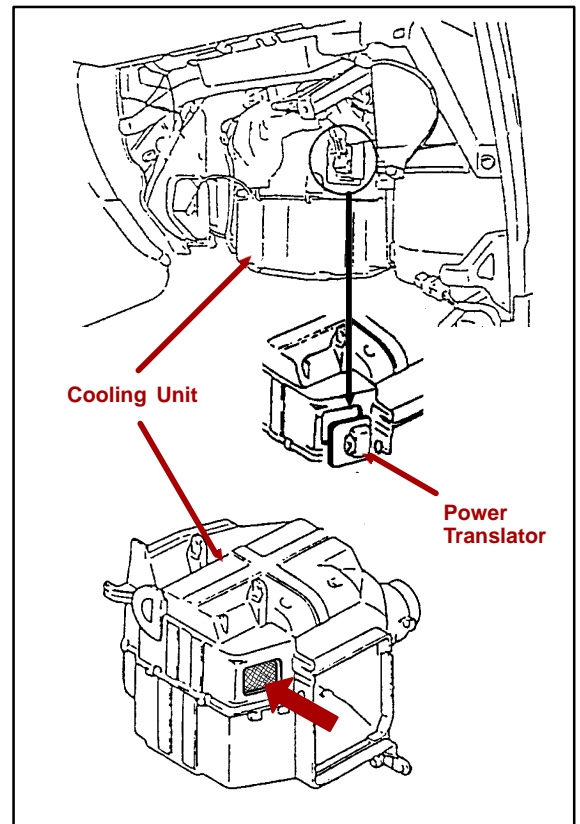
CAUTION:
Take care not to pinch the Air Bag Harness when reinstalling the glove box.



- Avalon**
(MCX10)
1. Removal of parts.
 - (a) Remove lower finish panels.
 - (b) If manual AC remove blower resistor.
 - (c) If auto-AC remove power transistor.
 2. Cleaning the Evaporator.
 - Follow the general procedures given on page 2.
 3. Reinstallation of parts.
 - Reinstall the parts in the reverse order of removal described in step 1.



- Cressida**
(MX83)
1. Removal of parts.
 - (a) Remove glove box.
 - (b) Remove power transistor.
 2. Cleaning the Evaporator.
 - Follow the general procedures given on page 2.
 3. Reinstallation of parts.
 - Reinstall the parts in the reverse order of removal described in step 1.



Celica

1. Removal of parts.

(AT180/200)
(ST184/204)

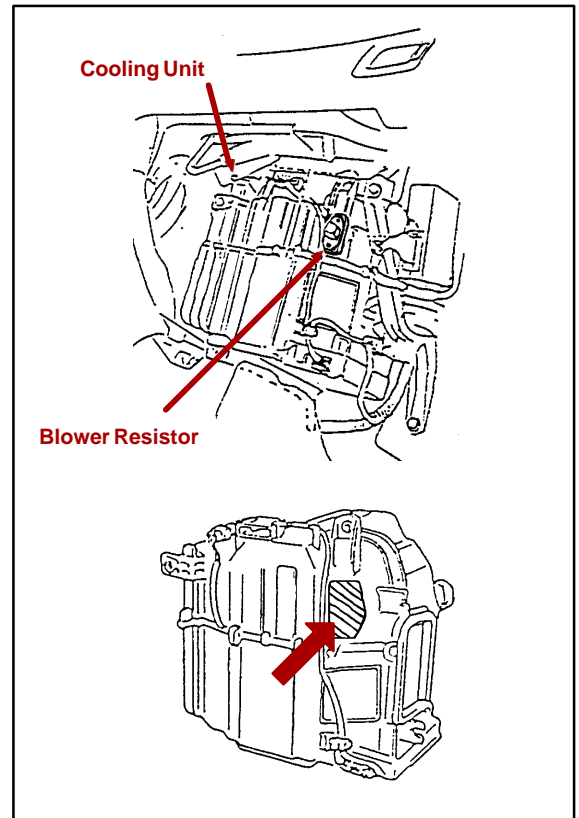
- (a) Remove glove box.
- (b) Remove blower resistor.

2. Cleaning the Evaporator.

- Follow the general procedures given on page 2.

3. Reinstallation of parts.

- Reinstall the parts in the reverse order of removal described in step 1.



Supra

1. Removal of parts.

(JZA80)

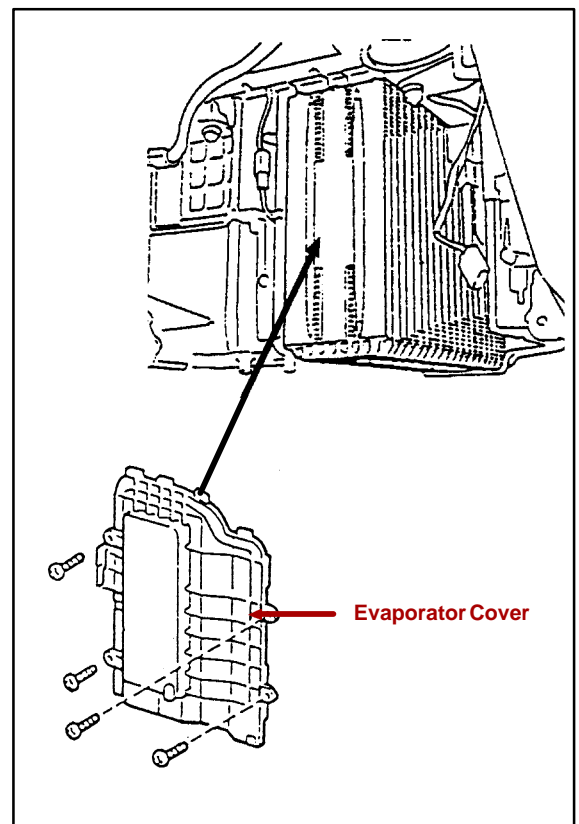
- (a) Remove the glove box, side air duct and the ECM.
- (b) Remove evaporator cover.

2. Cleaning the Evaporator.

- Follow the general procedures given on page 2.

3. Reinstallation of parts.

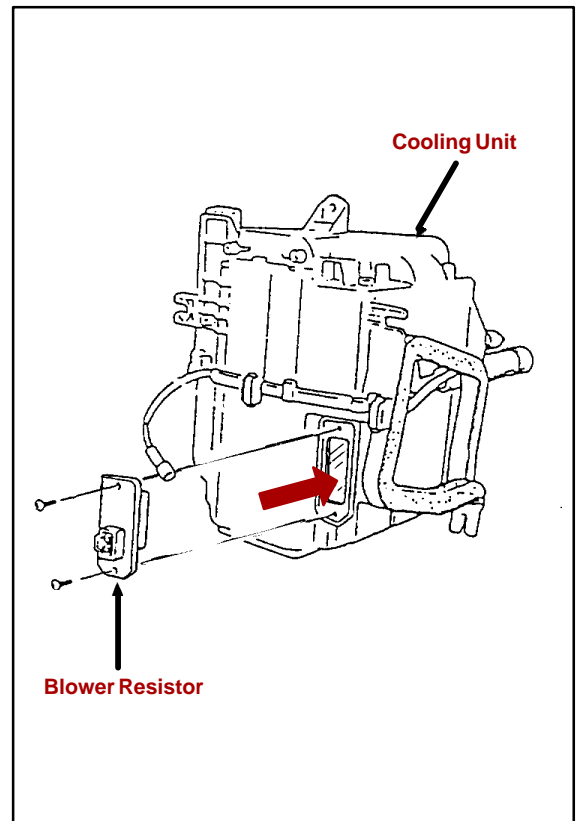
- Reinstall the parts in the reverse order of removal described in step 1.



Tercel/Paseo

(EL42/44/53)

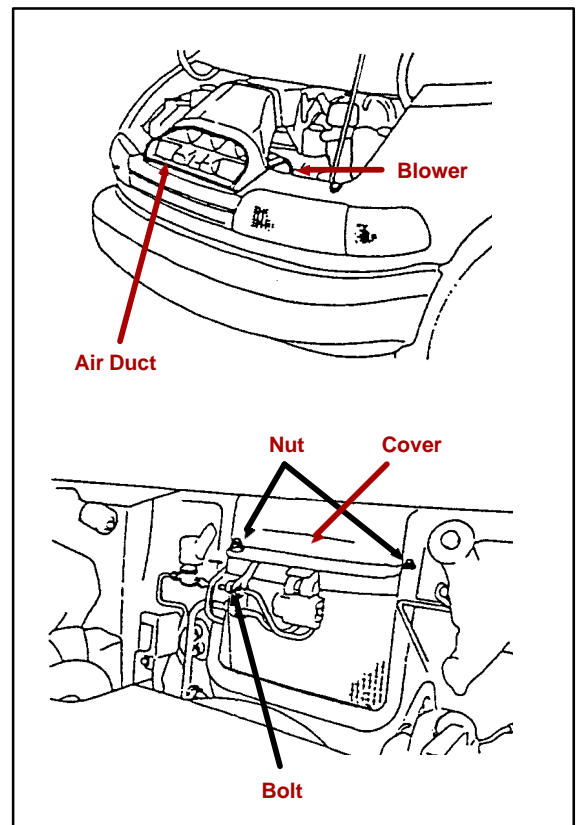
1. Removal of parts.
 - (a) Remove glove box.
 - (b) Remove blower resistor.
2. Cleaning the Evaporator.
 - Follow the general procedures given on page 2.
3. Reinstallation of parts.
 - Reinstall the parts in the reverse order of removal described in step 1.



Previa

(TCR10/20)

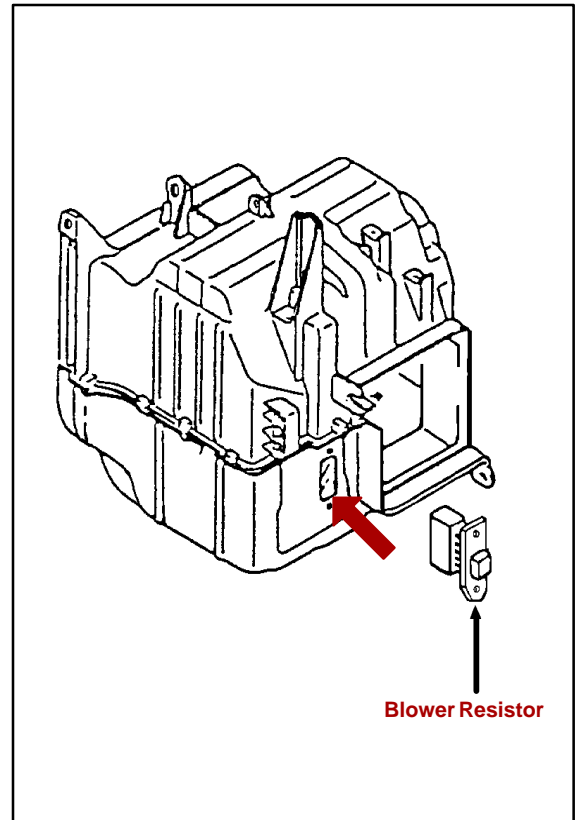
1. Removal of parts.
 - (a) Remove air duct and blower motor.
2. Cleaning the Evaporator.
 - Follow the general procedures given on page 2.
3. Reinstallation of parts.
 - Reinstall the parts in the reverse order of removal described in step 1.



Land Cruiser

(FZJ80)

1. Removal of parts.
 - (a) Remove glove compartment door.
 - (b) Remove blower resistor.
2. Cleaning the Evaporator.
 - Follow the general procedures given on page 2.
3. Reinstallation of parts.
 - Reinstall the parts in the reverse order of removal described in step 1.



**MR2,
T100,
Truck,
Tacoma,
4Runner
Other**

1. Removal of parts.
 - Remove the blower motor.
2. Cleaning the Evaporator.
 - Follow the general procedures given on page 2.
3. Reinstallation of parts.
 - Reinstall the blower motor.

