



Technical Service Information Bulletin

September 12, 1997

Title:

AIR CONDITIONING EVAPORATOR ODOR

Models:

'92-'96 ES 300, '93-'94 LS 400,
All GS 300, SC 300/400, LX 450.

AC001-97

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 condensation.
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 Lexus vehicle, this bulletin gives details specifically for the '92-'96 ES 300, all GS 300, '93-'94 LS 400, all SC 300/400 and the LX 450.

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.

Warranty Information

OPCODE	DESCRIPTION	TIME	OPN	T1	T2
N/A	No applicable warranty information	-	-	-	-

Table of Contents

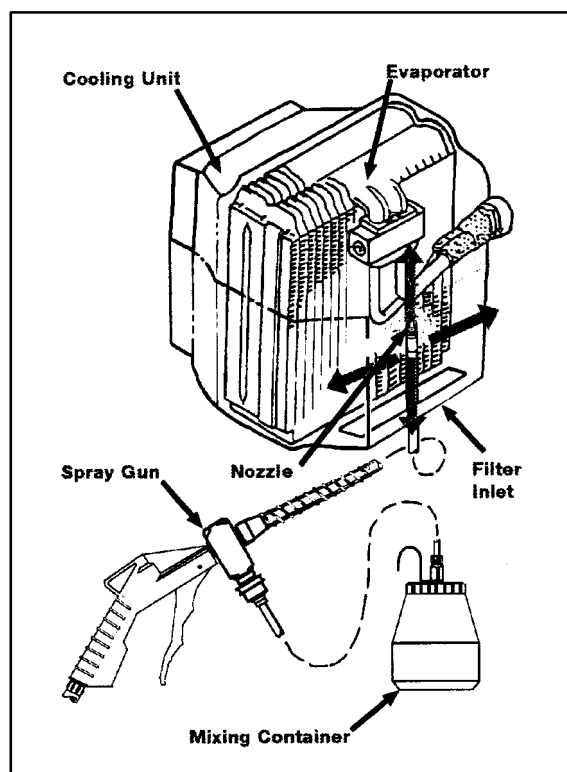
MODEL	PAGE	MODEL	PAGE	MODEL	PAGE	MODEL	PAGE
GENERAL	2	ES 300	3	GS 300	5	LS 400	7
		SC 300	9	SC 400	9	LX 450	11
General Procedure applies to all models and model years. The Specific Model Sections cover only the listed “affected models.”							



Lexus Supports ASE Certification

**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:
A/C: 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:
A/C: 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:
A/C: Off
Air Outlet: Foot
Mode: Recirc.
Blower: High
Temp: Max Warm
Windows: Closed
 - (b) If the 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.

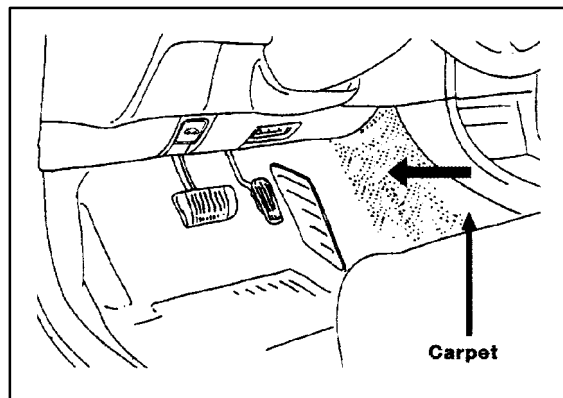
**CAUTION**

Do not get into the vehicle during this drying operation.

ES 300
(‘92–’96)

1. Removal of parts.

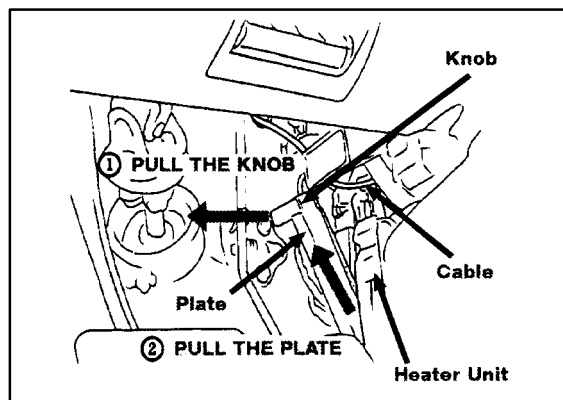
- (a) Pull down the carpet from the center console as indicated by red arrow in the illustration.



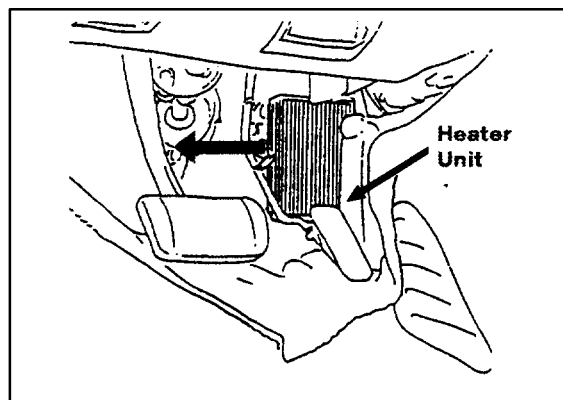
- (b) Remove the plate on the side of the heater unit using steps ① and ②, indicated with red arrows to show direction, in the illustration.

CAUTION:
Do not bend the cable.

NOTE:
The Plate will be reused.



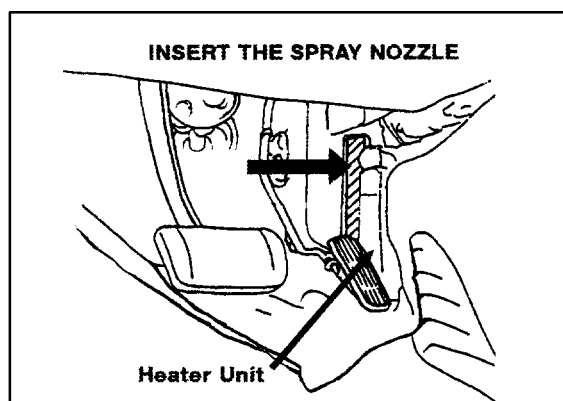
- (c) Remove the filter.
- (d) Remove the blower controller.



2. Clean the Evaporator.

- Follow the general procedures given on page 2.

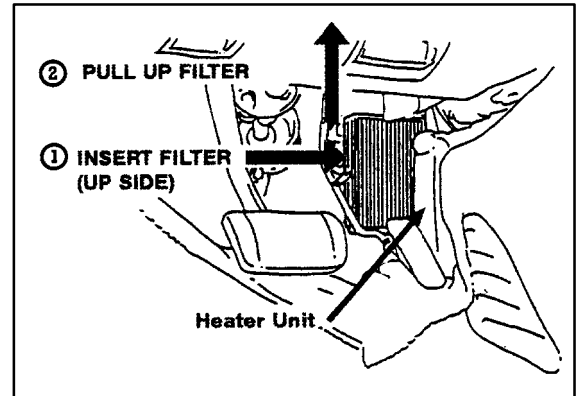
NOTE:
Location for insertion of spray nozzle is indicated by the red arrow in the illustration.



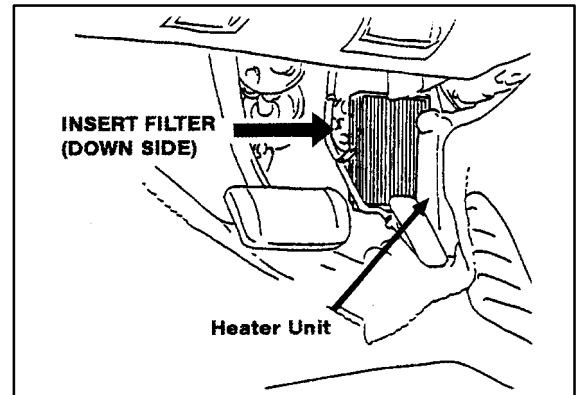
ES 300
('92-'96)
 (Continued)

3. Reinstallation of parts.

- (a) Insert the filter (up side) into the heater unit following the numbered steps shown in the illustration.



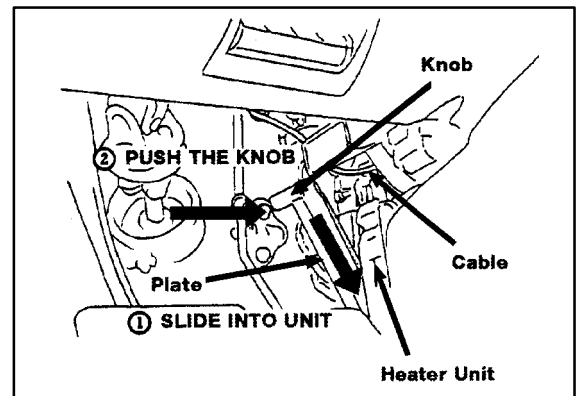
- (b) Insert the filter (down side) into the heater unit.



- (c) Reinstall the plate on the side of the heater unit using steps ① and ②, indicated with **red** arrows to show direction, in the illustration.

CAUTION:
 Confirm that the plate is secure.

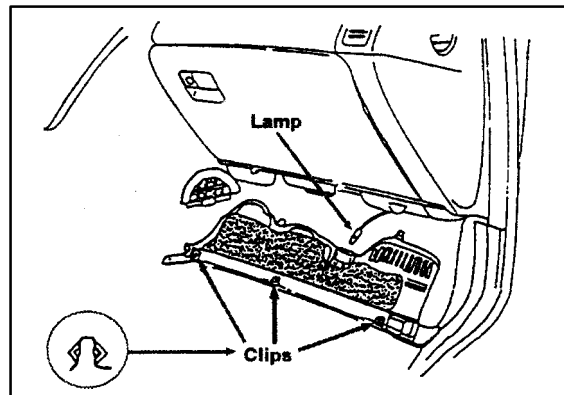
- (d) Restore the carpet to its original position taking care not to bend the cable.



GS 300 1. Removal of parts.

- (a) Remove the undercover.

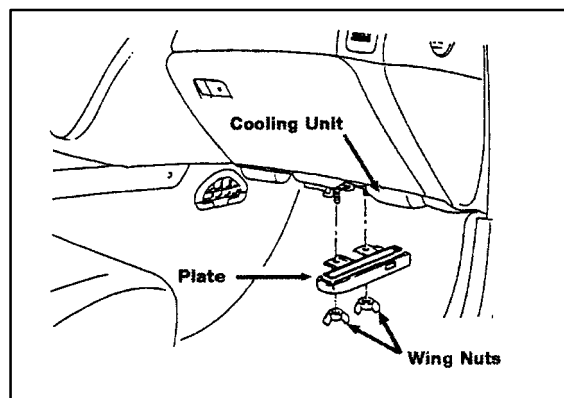
NOTE:
Pull down the clip areas (3 places) of the Undercover to remove.



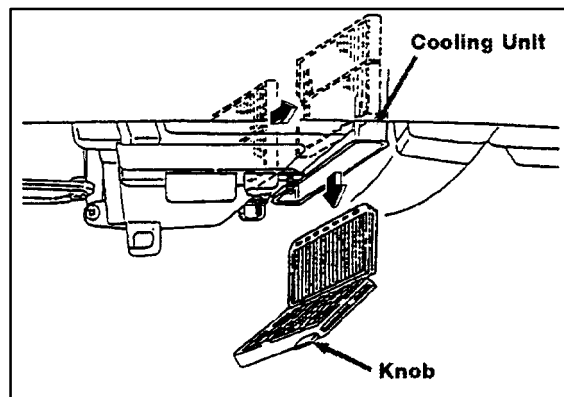
- (b) Remove the lamp.

- (c) Remove the (2) wing nuts and the plate on the bottom of the cooling unit.

CAUTION:
The plate and wing nuts will be reused.



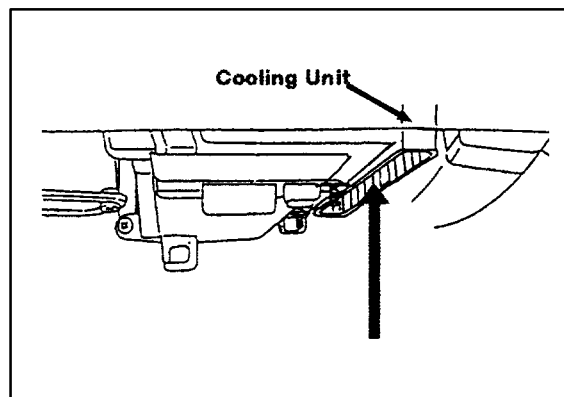
- (d) Remove the (2) filters from the cooling unit.



2. Clean the Evaporator.

- Follow the general procedures given on page 2.

NOTE:
Location for insertion of spray nozzle is indicated by the red arrow in the illustration.



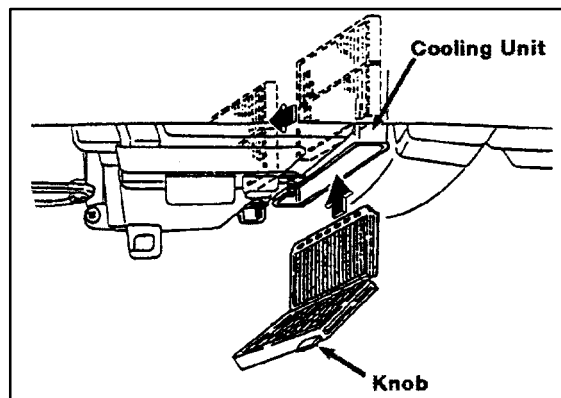
GS 300
(Continued)

3. Reinstallation of parts.

- (a) Insert the (2) filters into the cooling unit as shown in the illustration.

NOTE:

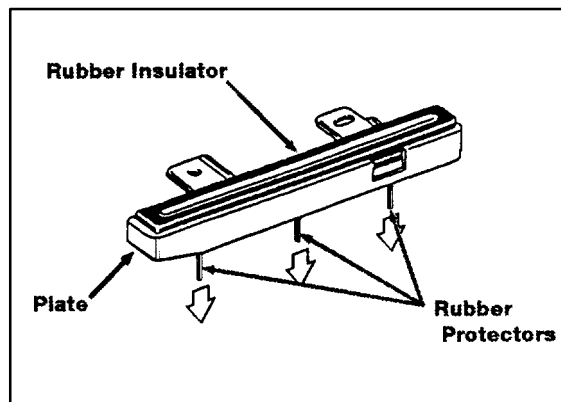
Insert a clean air filter with it's knob facing downwards, then slide it forward and install the second filter in the same manner.



- (b) Assemble the rubber insulator on the plate.

CAUTION:

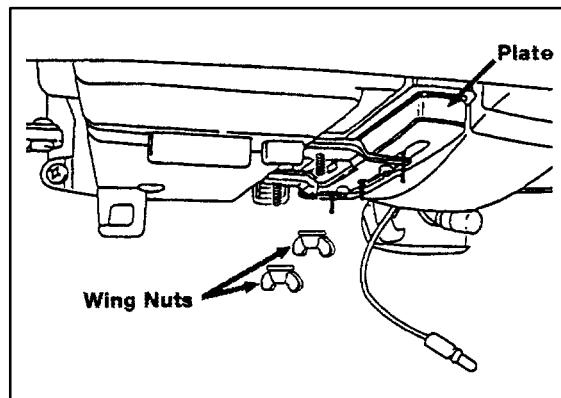
To prevent the cooling unit from leaking water, pull the three rubber projections from the other side of the plate to make sure that the rubber insulator seals properly against the plate.



- (c) Install the plate on the cooling unit and secure with the (2) wing nuts.

CAUTION:

To prevent water leaks, verify that the cooling unit and plate are fully secure before tightening the wing nuts.



NOTE:

Before installing the plate on the cooling unit, coat the rubber insulator with water for easier assembly.

- (d) Reinstall the lamp.

- (e) Reassemble the Undercover.

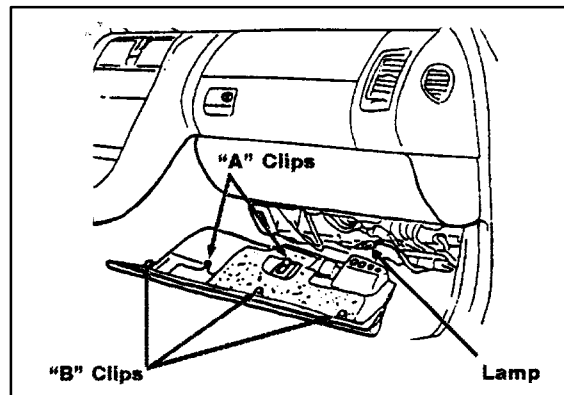
LS 400
(’93–’94)

1. Removal of parts.

(a) Remove the undercover.

NOTE:

- Remove the front of “A” clips.
- Pull down the three “B” clip areas of the Undercover to remove.

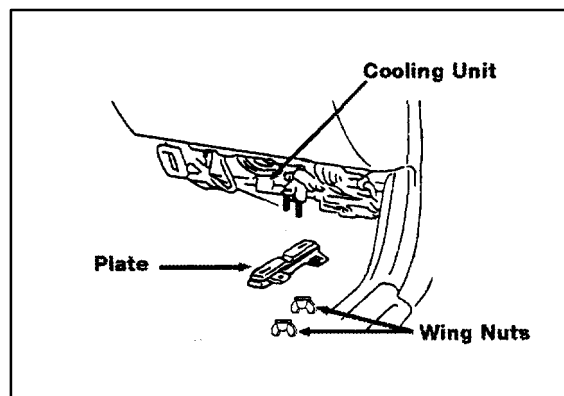


(b) Remove the lamp.

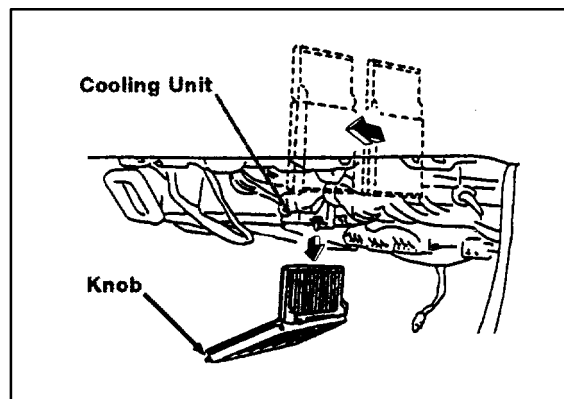
(c) Remove the (2) wing nuts and the plate on the bottom of the cooling unit.

CAUTION:

The plate and wing nuts will be reused.



(d) Remove the (2) filters from the cooling unit.

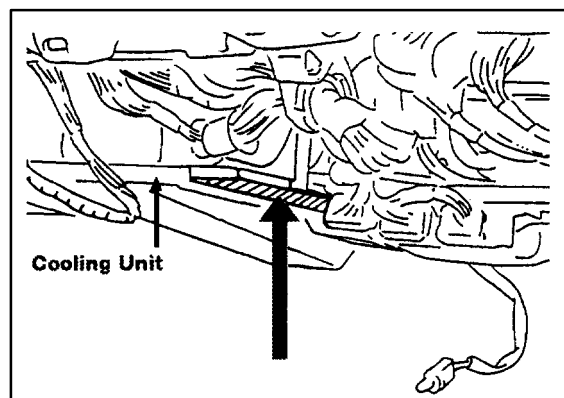


2. Clean the Evaporator

- Follow the general procedures given on page 2.

NOTE:

Location for the insertion of spray nozzle is indicated by the red arrow in the illustration.



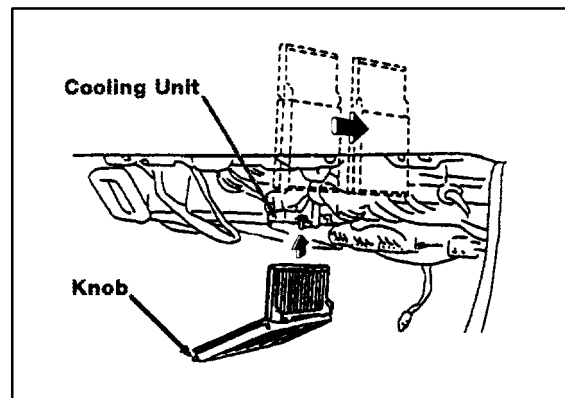
LS 400
('93-'94)
 (Continued)

3. Reinstallation of parts.

- (a) Insert the (2) filters into the cooling unit as shown in the illustration.

NOTE:

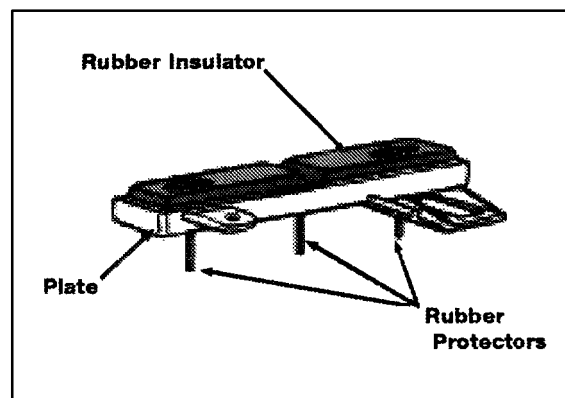
Insert a clean air filter with it's knob facing downwards, then slide it forward and install the second filter in the same manner.



- (b) Assemble the rubber insulator on the plate.

CAUTION:

To prevent the cooling unit from leaking water, pull the three rubber projections from the other side of the plate to make sure that the rubber insulator seals properly against the plate.



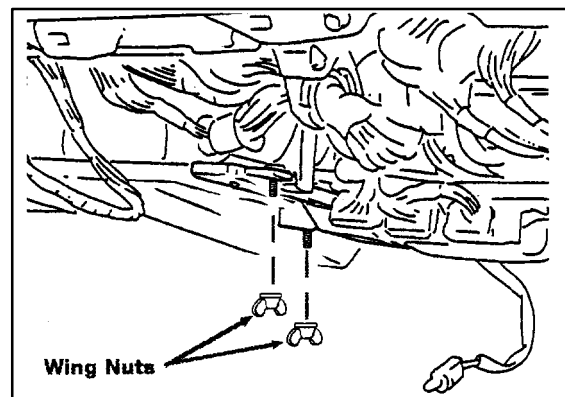
- (c) Install the plate on the cooling unit and secure with the (2) wing nuts.

CAUTION:

To prevent water leaks, verify that the cooling unit and plate are fully secure before tightening the wing nuts.

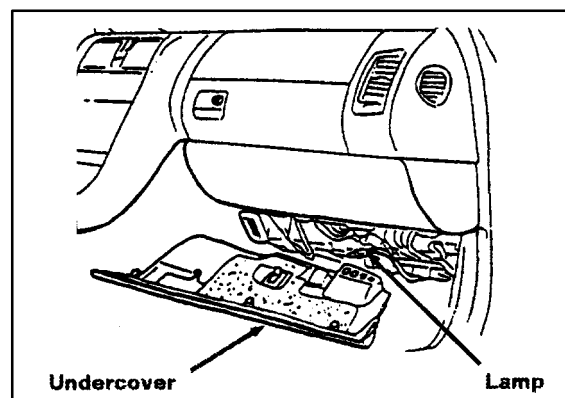
NOTE:

Before installing the plate on the cooling unit, coat the rubber insulator with water for easier assembly.



- (d) Reinstall the lamp.

- (e) Reassemble the Undercover.



SC 300 1. Removal of parts.
SC 400

- (a) Remove two clips using the clip remover then remove the undercover.

NOTE:
Pull down the clip areas (4 places) of the Undercover to remove.

- (b) Remove the (2) wing nuts and the plate on the bottom of the cooling unit.

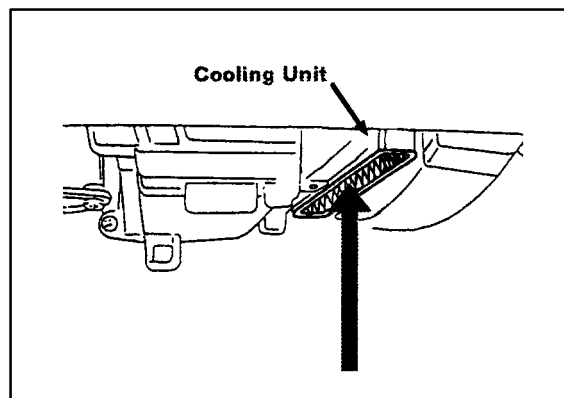
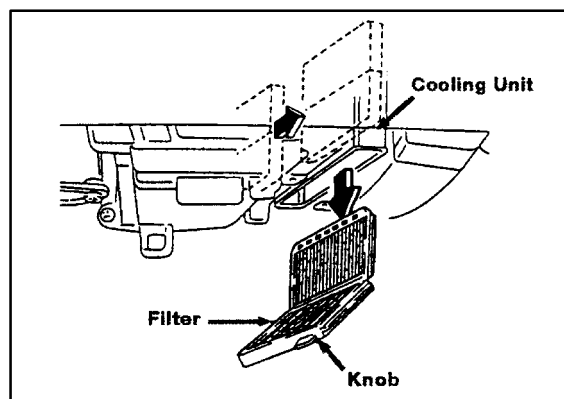
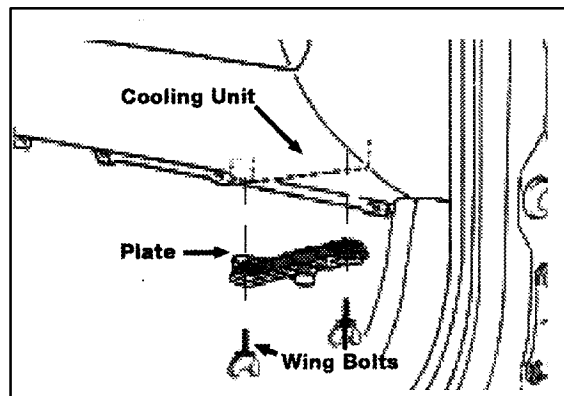
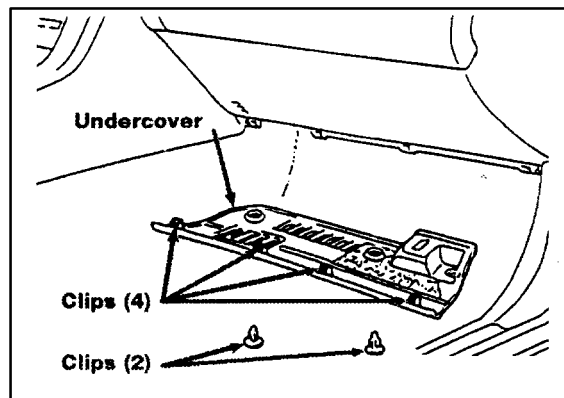
CAUTION:
The plate and wing nuts will be reused.

- (c) Remove the (2) filters from the cooling unit.

2. Clean the Evaporator

- Follow the general procedures given on page 2.

NOTE:
Location for the insertion of spray nozzle is indicated by the **red** arrow in the illustration.



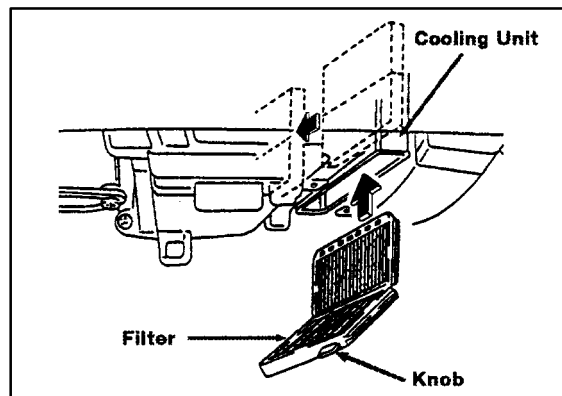
SC 300 3. Reinstallation of parts.**SC 400**

(Continued)

- (a) Insert the (2) filters into the cooling unit as shown in the illustration.

NOTE:

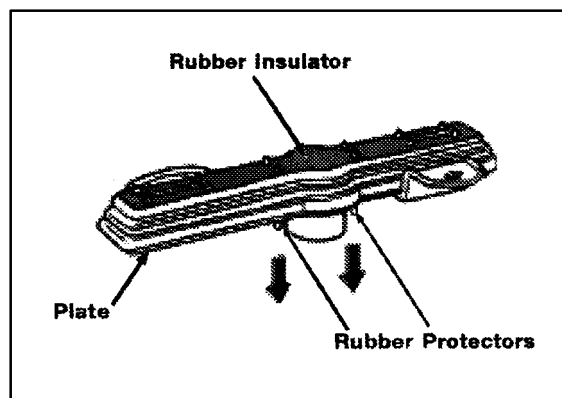
Insert a clean air filter with it's knob facing downwards, then slide it forward and install the second filter in the same manner.



- (b) Assemble the rubber insulator on the plate.

CAUTION:

To prevent the cooling unit from leaking water, pull the three rubber projections from the other side of the plate to make sure that the rubber insulator seals properly against the plate.



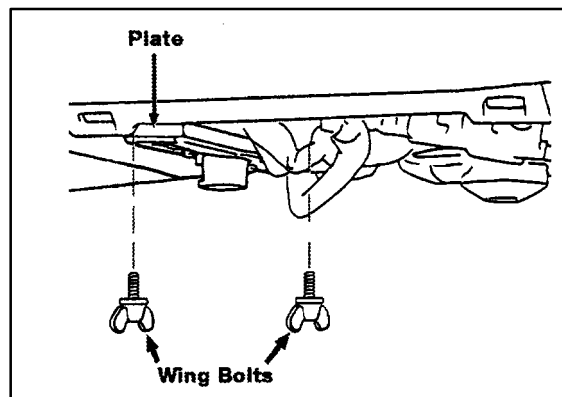
- (c) Install the plate on the cooling unit and secure with the (2) wing nuts.

CAUTION:

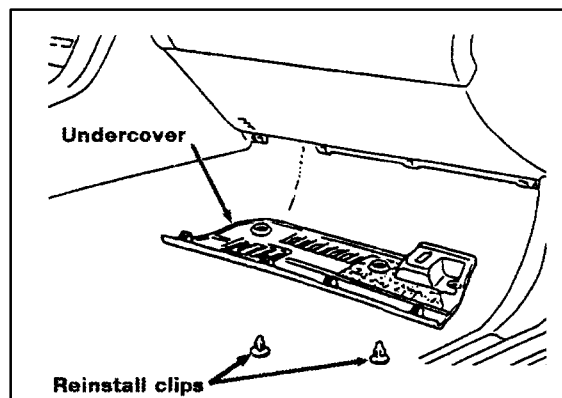
To prevent water leaks, verify that the cooling unit and plate are fully secure before tightening the wing nuts.

NOTE:

Before installing the plate on the cooling unit, coat the rubber insulator with water for easier assembly.



- (d) Reassemble the Undercover.



LX 450 1. Removal of parts.

- (a) Remove the glove compartment door.
- (b) Remove the A/C Amplifier.
- (c) Remove power transistor.

2. Clean the Evaporator

- Follow the general procedures given on page 2.

3. Reinstallation of parts.

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

