

Service Bulletin

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Category U	Applicable Model/s SEE BELOW	Subject HFC-134 A/C RETROFIT PARTS	Bulletin No. 96-03
			Issued 05/96
			Revised

AFFECTED VINS

This bulletin contains information on HFC-134a air conditioning retrofit systems and applies to the vehicles listed below.

1985 through 1994 model year 323/Protegé
1986 through 1993 model year MX-6/626
1988 through 1991 model year 929
1992 through 1993 model year MX-3
1990 through 1993 model year MX-5
1986 through 1994 model year RX-7
1989 through 1993 model year MPV
1986 through 1993 model year B-Series Truck

DESCRIPTION

The recharging of air conditioning units with CFC-12 has been prohibited in New Brunswick as of January 1996. This regulation also prohibits any servicing of CFC-12 systems with the use of CFC-12 freon gas. If any repair or service is required on the air conditioning system of a vehicle equipped with a CFC-12 system, the system must be upgraded with the use of retrofit parts, to accept HFC-134a.

This bulletin provides the necessary information to correctly install and service the R-134a retrofit parts.

The bulletin consists of the following four sections:

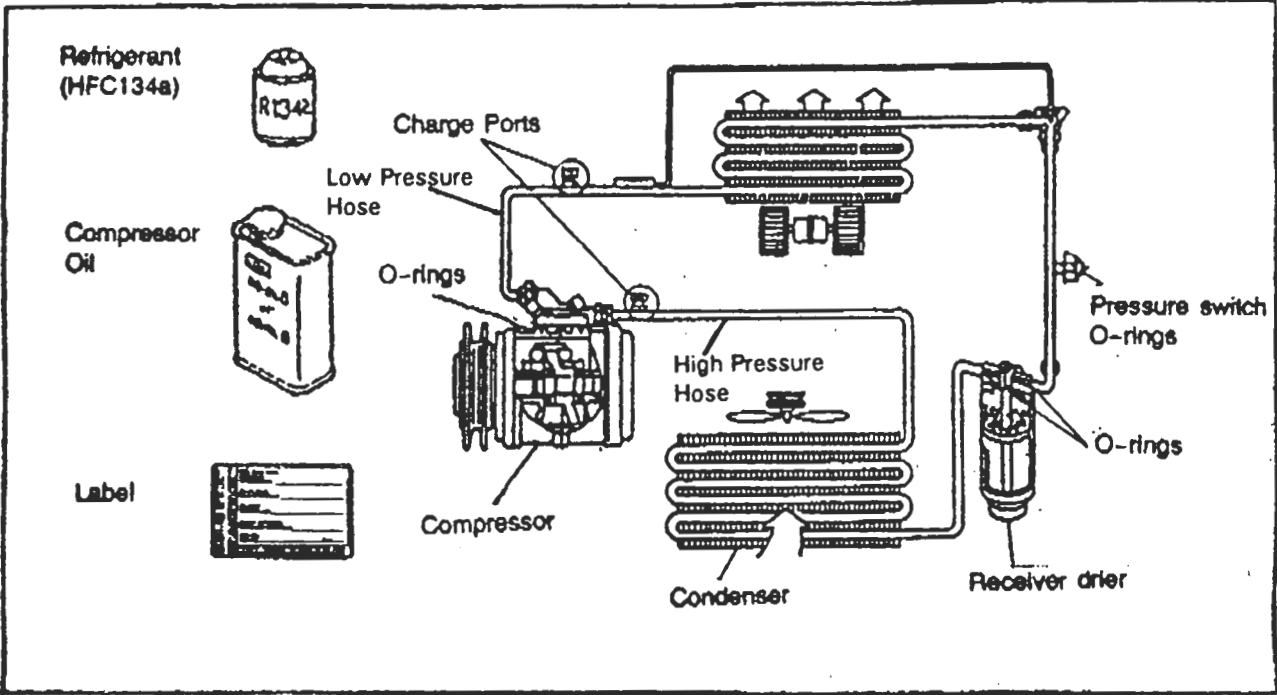
- I. Outline of Retrofit Parts.
- II. Repair Procedure
- III. Retrofit Parts List
- IV. Warranty Information

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I Outline of Retrofit Parts

Retrofitting the CFC-12 type air conditioner to HFC-134a requires the replacement of component parts, lubricants, as well as refrigerant. Parts to be replaced differ according to model year and model as shown in the table on the next page.

- . Refrigerant
- . Receiver drier
- . Charge port adapters
- . O-rings
- . Caution label
- . Compressor
- . Compressor oil
- . Condenser
- . Pressure switch
- . High / Low pressure hose



Retrofit Component Table By Vehicle Model

	Protege		323		626/MX-6		929		MX-3		MX-5		RX-7				MPV		B-Series Trucks	
	90-94	85-89	93	86-92	92-93	88-91	92-93	90-93	93-94	MANA	ND	93-94	MANA	ND	86-92	MANA	ND	89-93	89-93	86-93
Refrigerant	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Receiver drier	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Charge port adaptor-High side	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Charge port adaptor-Low side																				
O-rings	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Caution label	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Compressor	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X	-	X	-
Compressor oil	•	X	•	X	•	X	•	X	•	X	•	X	•	X	•	X	•	X	•	X
Condenser	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pressure switch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
High/Low pressure hose	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* If the compressor is replaced, the compressor oil does not need to be replaced because the replacement compressor contains the oil.

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A. All models require the following part replacement:

a. Refrigerant

Note: Charging amount of refrigerant requires precise measurement. Refer to the attached "Compressor Oil and Refrigerant Charging Amount Table" (page 14) when charging refrigerant.

b. Receiver Drier

Note: The following models require the pressure switch be transferred from the old receiver drier to the new receiver drier with new HFC-134a compatible O-rings:

1985-1989 323

1986-1992 MX-6/626

1986-1993 B-Series Truck

c. Charge port adapter

Note: Charge port adapter is required to prevent the retrofit system from being charged with CFC-12 freon gas.

d. New caution label

Note: Vehicles equipped with HFC-134a retrofit parts require a new caution label to be affixed over the previous caution label under the hood. If it is not possible to install it over the old label, install a new label where space is available and remove or make the old label illegible in compliance with regulations. Fill out the necessary information on the appropriate location of the new label.

e. O-Ring

Refer to Section III Retrofit Parts List to determine correct location for O-rings that need to be replaced on each model.

Note: Refer to "Category U, 009-95" Service Bulletin for further O-ring information.

B. Certain models require the following part replacement:

a. Compressor oil

The following models require compressor oil replacement:

- 1985-1989 323
- 1986-1992 MX-6/626
- 1988-1991 929
- 1990-1993 MX-5
- 1986-1994 RX-7
- 1989-1993 MPV
- 1986-1993 B-Series Truck

Note: REPLACE the old CFC-12 compressor oil with the appropriate compressor oil. Charging amount of oil requires precise measurement. Refer to the attached "Compressor Oil and Refrigerant Charging Amount Table" when charging oil.

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b. Compressor

The following models require compressor replacement:

- 1990-1994 Protégé
- 1993 MX-6/626
- 1992-1993 929
- 1992-1993 MX-3

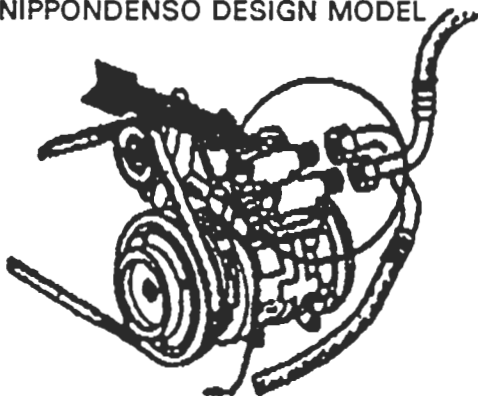
Note: DO NOT add the compressor oil because the replacement compressor contains the proper amount of oil.

There are two different types of CFC-12 air conditioning systems found on 1986-1994 RX-7. Before retrofitting, you should identify which air conditioning system is installed on the vehicle. The following is the identification method:

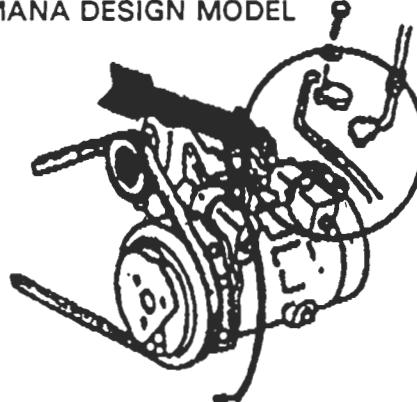
1986-1994 RX-7:

Identify the compressor referring to the figure below.

NIPPONDENSO DESIGN MODEL



MANA DESIGN MODEL



(Note: Difference in pipe fitting).

c. Condenser

The 1993-1994 RX-7 equipped with MANA design A/C requires condenser replacement.

d. Pressure switch

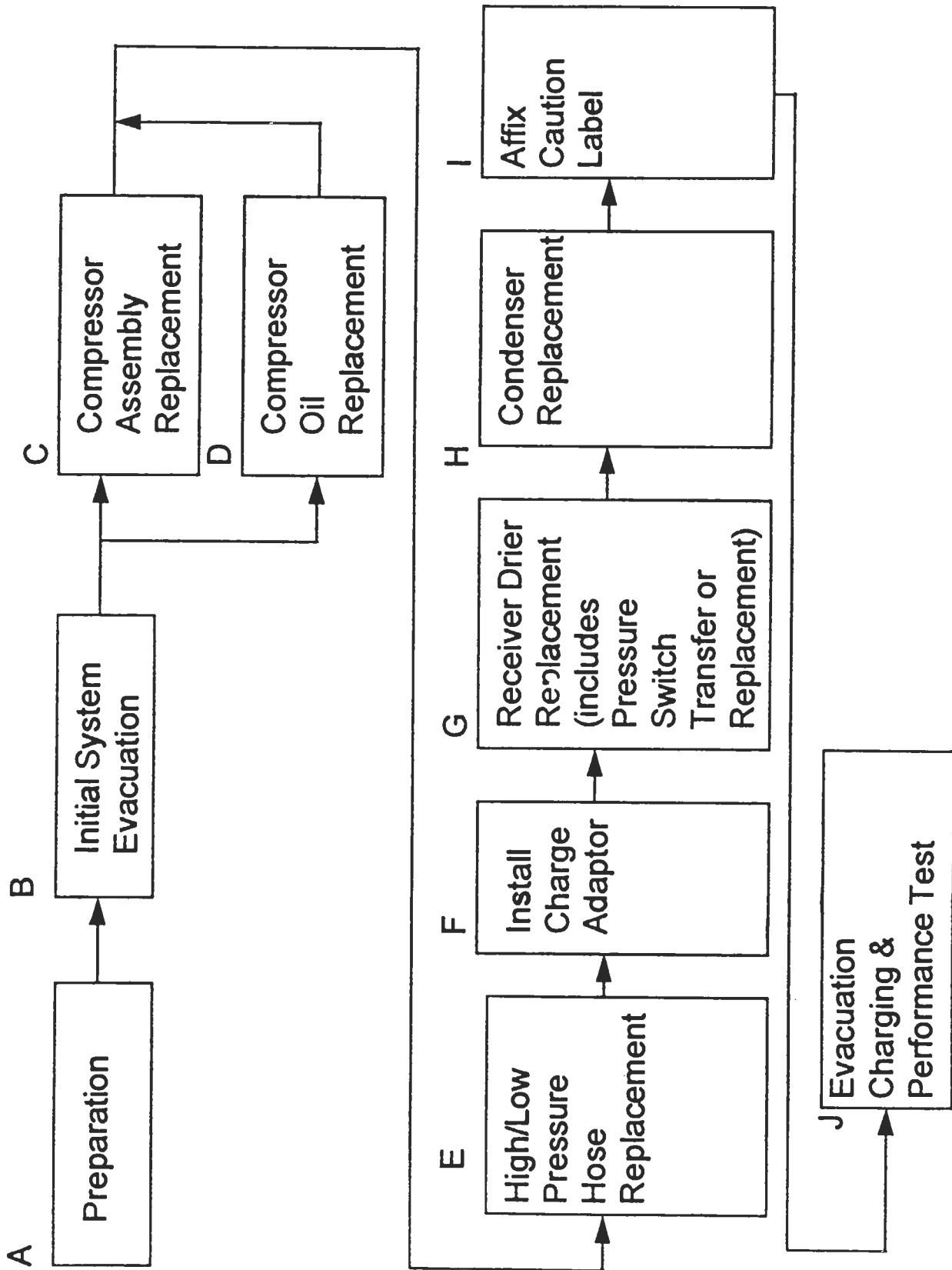
The 1986-1992 RX-7 equipped with NIPPONDENSO design A/C requires pressure switch replacement

Note: The following models require the pressure switch to be transferred from the old receiver drier to the new receiver drier with new HFC-134a compatible O-rings:

- 1985-1989 323
- 1986-1992 MX-6/626
- 1986-1993 B-Series Truck

e. High / Low pressure hose

The 1990 - 1994 323/Protégé requires high pressure and low pressure hose replacements.



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A. PREPARATION

a. System Condition:

1. Determine if the vehicle air conditioning system has been previously retrofitted. Talk to the customer and obtain the service history of the air conditioning system.
2. Check the engine compartment area for a system label to determine the existing system identification and/or if a retrofit label has been installed.
3. Determine that CFC-12 charge ports are on the air conditioning system.
4. Determine possible refrigerant leaks and system performance.

B. INITIAL SYSTEM EVACUATION

a. Removal of CFC-12 Oil:

During the process of retrofitting a vehicle A/C system to HFC-134a, almost all of the CFC-12 A/C oil should be eliminated from the system and replaced with HFC-134a oil. This is accomplished by the following three (3) steps:

- Removal of CFC-12 A/C oil with system Evacuation Procedures
- Draining of CFC-12 A/C oil from the compressor or replacement of the compressor.
- Replacement of the receiver drier

b. Evacuation Procedure:

Some of the CFC-12 A/C oil can be removed from a CFC-12 system by evacuation. By following the procedures below, remove the maximum possible amount of CFC-12 A/C oil:

1. Verify A/C system has no leaks.
(If the system has a leak and no CFC-12 is present, see Note below).
2. Connect CFC-12 recovery station to the vehicle A/C system.
3. Start the engine and turn on the A/C.
4. Set A/C controls to Max A/C and Blower to #2 speed.
5. Run the engine at 1500-1800 RPM for 5-10 minutes.
6. Shut off the engine.
7. Immediately evacuate the system.
8. After completing evacuation, allow the vehicle to sit for at least 15 minutes before removing the compressor.

Note: If the system has a leak and/or no CFC-12 is present, the evacuation procedure will be ineffective. CFC-12 oil will have to be removed by component replacement and compressor draining and/or replacement.

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C. COMPRESSOR ASSEMBLY REPLACEMENT

- 1990-1994 Protegé
- 1993 626/MX-6
- 1992-1993 929
- 1992-1993 MX-3

- Replace the compressor. Refer to the appropriate Workshop Manual or Body Electrical Troubleshooting Manual for removal procedures. Do not add compressor oil.*
- Connect the high side and low side hose to the compressor fittings with new HFC-134a compatible O-rings.

- * Replacement compressor contains necessary amount of oil.

D. COMPRESSOR OIL REPLACEMENT

- 1985-1989 323
- 1986-1992 626/MX-6
- 1988-1993 929
- 1990-1993 MX-5
- 1986-1994 RX-7
- 1989-1993 MPV
- 1986-1993 B-Series Truck

After properly evacuating the A/C system, remove the A/C compressor from the vehicle according to the procedures outlined in the appropriate workshop manual. If the compressor has an oil drain plug, remove it and allow the compressor to drain. If the compressor is not equipped with an oil drain plug, place the compressor with the discharge and suction connections at a downward angle directly over an approved oil waste container. Allow the A/C compressor to drain for a minimum of 5 minutes. After 5 minutes, turn the compressor clutch several rotations and allow the compressor to drain for an additional 5-10 minutes. Repeat these processes if necessary.

- Refill the compressor with a new HFC-134a compressor oil in the amount called for in the "Compressor Oil and Refrigerant Charging Amount Table".
- Connect the high side and low side hose to the compressor fittings with new HFC-134a compatible O-rings.

E. HIGH / LOW PRESSURE HOSE REPLACEMENT

- 1990 - 1994 Protegé 323

- Replace the high and low pressure hoses. Refer to the appropriate Workshop Manual or Body Electrical Troubleshooting Manual for further procedures.

F. INSTALL CHARGE ADAPTOR




- Remove the service port caps and clean old CFC-12 service ports with a steel brush. Be sure not to allow contaminants to enter the A/C system.

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Note:

- Clean Air Act requires HFC-134a system to have a different configuration of charging port fittings than a CFC-12 system.
- There are three different types of adapters for retrofit system. Please take note that two types require removal of the schrader valve core from the CFC-12 service port, while the remaining one does not .

Refer to the table below:

	Straight Configuration		90-Degree Angle Configuration
Configuration			
Schrader Valve	With schrader Valve	No Schrader Valve	With Schrader Valve
Applicable Parts No.	HEY0-61-F00 HGY0-61-F00 LCY0-61-F00	EAY0-61-FOX EAY0-61-FOY	NAY0-61-F1X NAY0-61-F1Y
Caution	Remove schrader valve core from CFC-12 service port	Do not remove schrader valve core from CFC-12 service port	Remove schrader valve core from CFC-12 service port.

- Always finger tighten the adaptor before using a wrench to complete tightening. If an excessive resistance is felt while finger tightening, remove the adapter, verify that the adapter matches correctly, and check threads for any burrs or any sign of cross threading.

When installing 90-degree adapter or straight adaptor with schrader valve:

1. Remove schrader valve and O-ring from the OEM service port. When removing the schrader valve, be sure to prevent any material from leaving or entering the port.
2. Apply a small amount of Loctite to the threads of the existing valves.
3. Align and install the adaptor to the OEM service port. When installing the 90° adapter, make sure the direction of the charge port allows for easy access with no interference.
4. Tighten the adapter to the specified torque. With a wrench hold the OEM service port from turning while tightening adapter.
Tightening torque: 6.8-8.1 N.m. (69-82 kgf.cm, 60-72 in.lbf)
5. Install a cap on the adapter.

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When installing straight adapter with no schrader valve:

1. Apply a small amount of Locktite to the threads of the existing valves.
2. Attach and install an adapter on the OEM service port.
3. Torque the adapter to the specified torque. With a wrench hold the OEM service port from turning while tightening adapter.
Tightening torque: 6.8-8.1 N.m. (69-82 kgf.cm, 60-72 in.lbf)
4. Install a cap on the adapter.

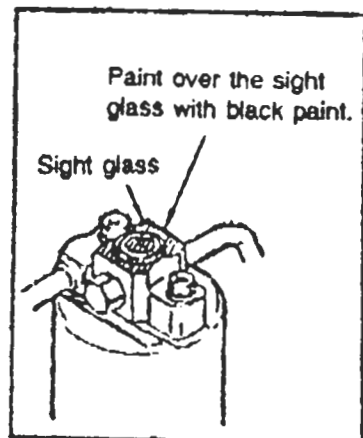
G. RECEIVER DRIER REPLACEMENT

- Remove and discard the receiver drier. Refer to the appropriate Workshop Manual or Body Electrical Troubleshooting Manual for removal procedures.
- Transfer the pressure switch from the old receiver drier to the new receiver drier using new HFC-134a compatible O-rings on the following models:
 - 1985-1989 323/Protegé
 - 1986-1992 MX-6/626
 - 1986-1993 B-Series Truck
- For 1986-1992 RX-7 NIPPONDENSO design A/C, replace the pressure switch with a new part.

Note: **Do not** add any oil other than the recommended amount outlined in this service bulletin.

- Install a new receiver drier and pipes using new HFC-134a compatible O-rings.

Note: If the model is equipped with a sight glass, it should be covered up with black paint. To prevent faulty judgement of the amount of refrigerant due to its cloudy white appearance which could lead to overcharging, the sight glass method is no longer valid. Judgement of retrofit A/C refrigerant volume is made by gauge pressure and cooling performance only.



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H. CONDENSER REPLACEMENT

For 1993-1994 RX-7 equipped with MANA design A/C;

Replace the old condenser with a new condenser using HFC-134a compatible O-rings. Refer to the 1993-1994 RX-7 Body Electrical Troubleshooting Manual for replacement procedure.

I. AFFIX CAUTION LABEL

Using a typewriter or permanent ball-point pen, fill in the required blue HFC-134a A/C adaptation label (Caution Label).

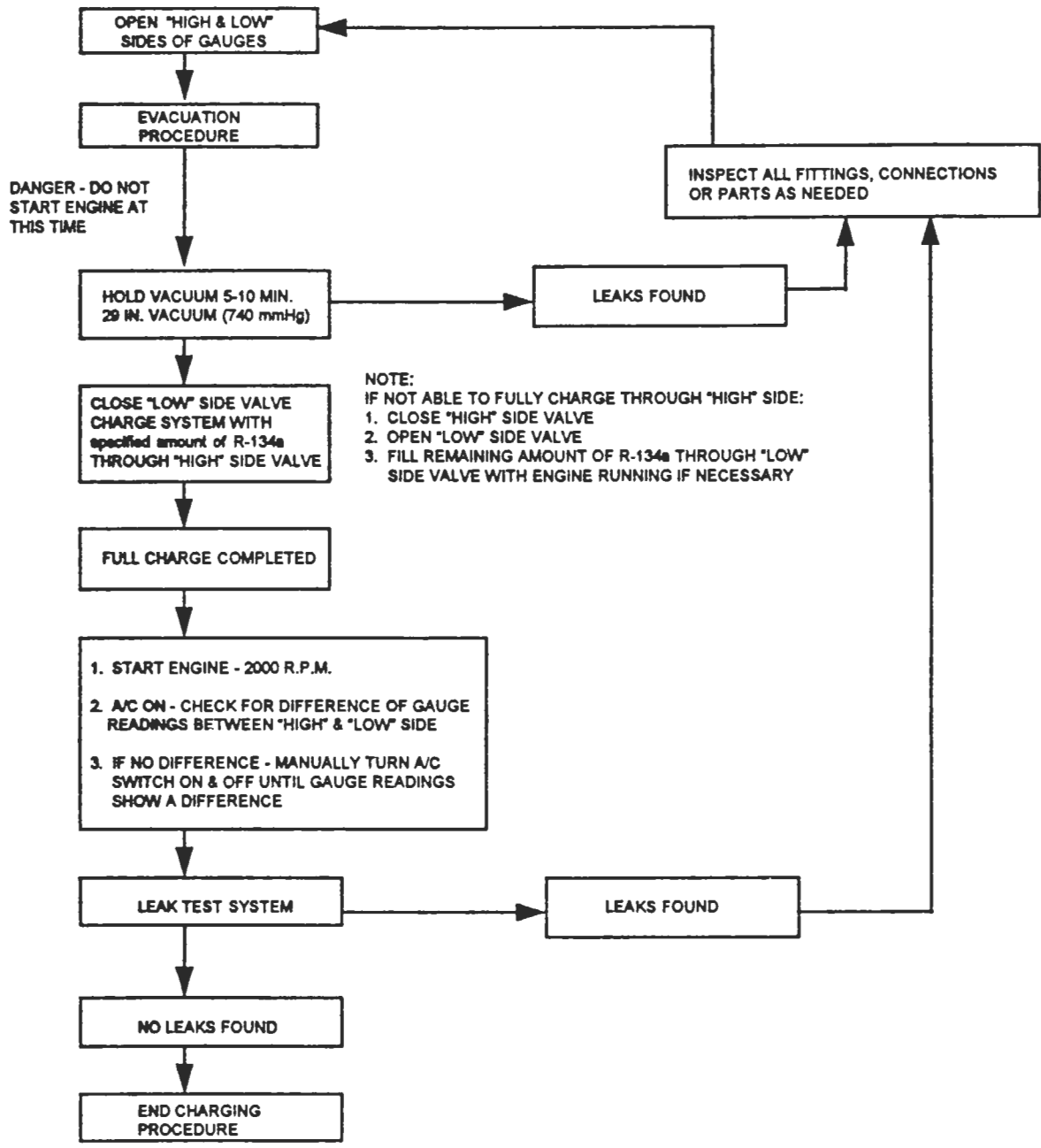
NOTICE: AIR CONDITIONER RETROFITTED TO R-134a AVIS: CLIMATISEUR MODIFIE POUR CONVENIR AU R-134a	R-134a Charge amount: R-134a Charge: De Remplissage: _____ ①
	PAG oil volume: Charge De Lubrifiant: _____ ②
	PAG oil type: De Lubrifiant type: _____ ③
	Retrofit performed by: Modification executee par: _____ ④
	Address: _____ ⑤
	Date: _____ ⑥
RETROFIT PROCEDURE PERFORMED TO SAE J1601 MODIFICATION EFFECTUEE CONFORMEMENT A LA NORME SAE J1601	

- | | |
|--|---|
| ① R-134a REFRIGERANT CHARGE AMOUNT IN "g (oz)" | ④ NAME OF INSTALLATION DEALERSHIP |
| ② R-134a OIL AMOUNT IN "cc (fl. oz.)" | ⑤ STREET, CITY, PROVINCE OF INSTALLATION DEALERSHIP |
| ③ R-134a OIL TYPE: I.E., SP-10, etc. | ⑥ DATE ADAPTATION WAS PERFORMED |

If possible, place the new label over the existing CFC-12 label. If the new label does not completely cover the existing label, remove the old label before installing the revised label.

J. EVACUATION, CHARGING & PERFORMANCE TEST PROCEDURE

Model:	1985-1989 323/Protegé, 1990-1993 MX-5, 1987-1993 B-Series Truck, 1986-1994 RX-7	1986-1992 MX-6/626 1989-1993 MPV 1988-1991 929
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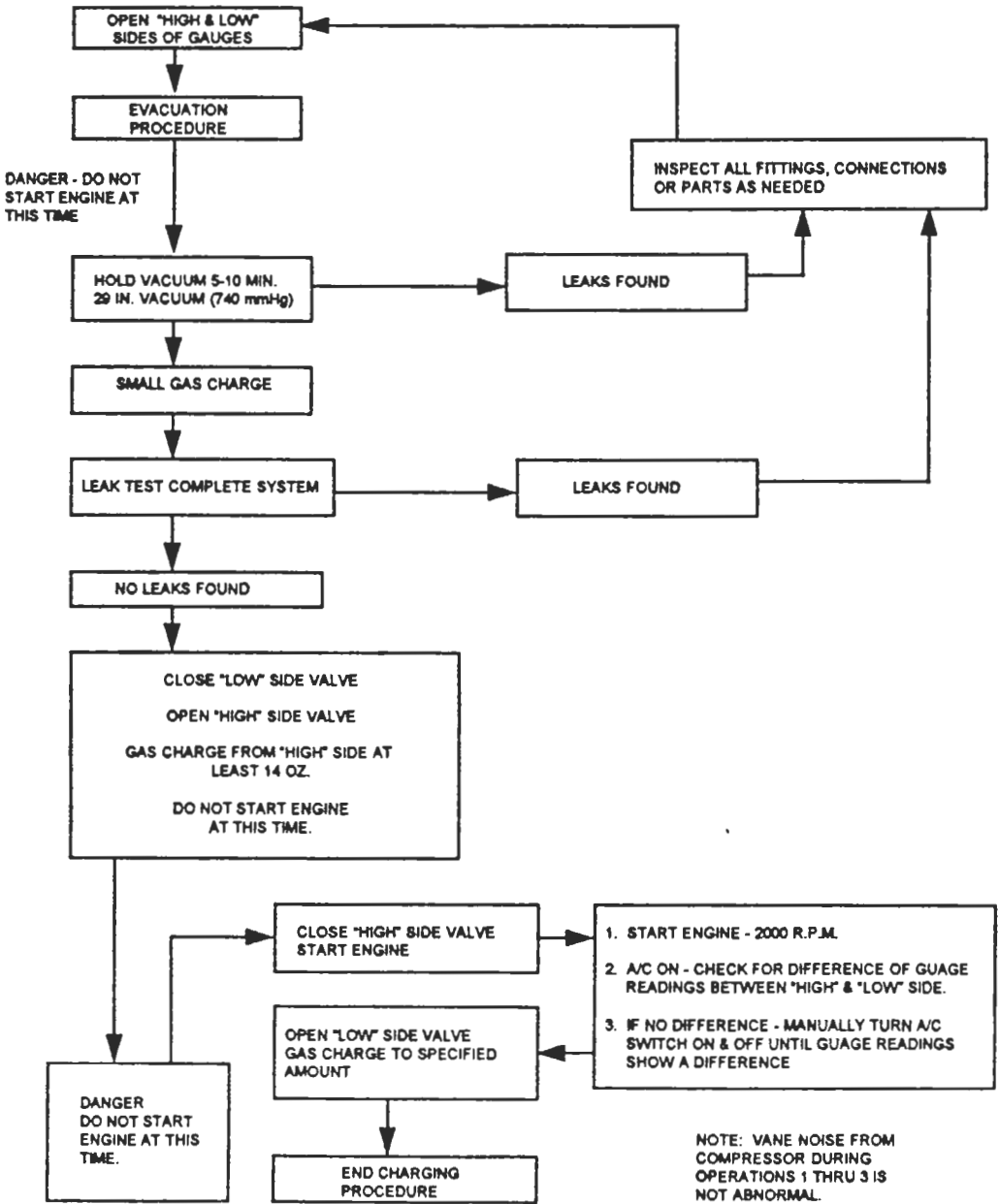
NOTE:
REINSTALL CAPS ON THE HIGH AND LOW SIDE CHARGE VALVES AFTER COMPLETING CHARGE.
TURN THE CAPS UNTIL YOU FEEL RESISTANCE, THEN TURN CAP AN ADDITIONAL QUARTER TURN.

Model: 1990-1994 323/Protegé, 1993 MX-6/626
 1992-1993 MX-3, 1992-1993 929

THE PANASONIC ROTARY COMPRESSOR, BECAUSE OF ITS UNIQUE INTERNAL STRUCTURE, REQUIRES A SPECIAL REFRIGERANT CHARGING PROCEDURE. THIS PROCEDURE IS NEEDED TO ENSURE THE VANES SEAT PROPERLY AGAINST THE CYLINDER WALL IN TURN PREVENTING EXCESSIVE NOISE DURING THE GAS CHARGE OPERATION.

DURING THE GAS CHARGE OPERATION YOU MAY EXPERIENCE SOME VANE NOISE. THIS NOISE IS NORMAL AND SHOULD BE OF NO CONCERN.

USE REFRIGERANT R-134a. Refer to the "COMPRESSOR OIL AND REFRIGERANT CHARGING AMOUNT" for charging amount.



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Compressor Oil and Refrigerant Charging Amount

* Charging amount of oil and refrigerant requires precise measurement.

Model		Comp. OIL		Refrigerant
		Spec.	Amount	
323/Protegé	1990-1994	-	☆	720g (25.4oz)
	1985-1989	ND8	80 cc (2.4 fl oz)	765g (27.0oz)
MX-6/626	1993	-	☆	810g (28.6oz)
	1988-1992	ND8	80 cc (2.4 fl oz)	900g (31.8oz)
	1986-1987	DS-83P	100 cc (3.3 fl oz)	794g (28.1oz)
929	1992-1993	-	☆	750g (26.5oz)
	1988-1990 (*)	ZXL100PG	100 cc (3.3 fl oz)	750g (26.5oz)
	1990 (**)-1991	ZXL100PG	100 cc (3.3 fl oz)	650g (22.9oz)
MX-3	1992-1993	-	☆	720g (25.4oz)
MX-5	1990-1993	ND9	150 cc (5.0 fl oz)	720g (25.4oz)
RX-7 (MANA)	1993-1994	ND9	150 cc (5.0 fl oz)	720g (25.4oz)
	1989-1992	SP20	135 cc (4.5 fl oz)	816g (28.8oz)
	1986-1988	SP20	135 cc (4.5 fl oz)	816g (28.8oz)
RX-7 (ND)	1993-1994	ND9	120 cc (4.0 fl oz)	550g (19.4oz)
	1986-1991	ND8	80 cc (2.4 fl oz)	750g (26.5oz)
MPV w/single A/C	1989-1993	ND8	100 cc (3.3 fl oz)	1,098g (38.8oz)
MPV w/dual A/C	1989-1993	ND8	120 cc (4.0 fl oz)	1,400g (49.4oz)
B2200/B2000	1987-1993	SP20	135 cc (4.5 fl oz)	675g (23.9oz)
B2600	1990-1993	SP20	135 cc (4.5 fl oz)	675g (23.9oz)

Note: Source Compressor oil locally.

☆ DO NOT add compressor oil, replacement compressor contains proper amount of oil.

* JM1HC22**L0312437 and lower.

** JM1HC22**L0312438 and higher.

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III. RETROFIT PARTS LIST

323/Protegé

< for 1990-1994 Model >

Part Name	Part Number	Quantity	Remarks
Receiver Drier	BR70-61-500	1	
Adapter-High side	EAY0-61-FOX	1	Straight
O-ring	LB51-61-J1X	1	Both ends of Receiver Drier
	LB54-61-J1X	1	Compressor fitting (High side)
	LB56-61-J1X	1	Compressor fitting (Low side)
Caution Label	EAY0-61-439	1	
Compressor	BB7C-61-450	1	For I-4
	BRY0-61-450	1	For I-4 DOHC
High Pressure Hose	BR71-61-461B	1	For I-4
	BR70-61-461B	1	For I-4 DOHC
Low Pressure Hose	BB7C-61-462	1	For I-4
	BB7A-61-462	1	For I-4 DOHC

< for 1985-1989 Model >

Part Name	Part Number	Quantity	Remarks
Receiver Drier	BFY0-61-500	1	
Adapter-High side	NAY0-61-F1X	1	90-Degree
Adapter-Low side	EAY0-61-FOY	1	Straight
O-ring	LB53-61-J1X	1	Both ends of Receiver Drier
	LB54-61-J1X	1	Compressor fitting (High side)
	LB56-61-J1X	1	Compressor fitting (Low side)
	UHY8-61-J1X	1	For Pressure switch on Receiver Drier
Caution Label	EAY0-61-439	1	
Compressor Oil (250cc/Can)	W257-61-K39	1	Requires 80cc/vehicle

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MX-6/626

< for 1993 Model >

Part Name	Part Number	Quantity	Remarks
Receiver Drier	GB6H-61-500	1	
Adapter-High side	EAY0-61-FOX	1	Straight
Adapter-Low side	EAY0-61-FOY	1	Straight
O-ring	LB51-61-J1X	1	Both ends of Receiver Drier
	LB54-61-J1X	1	Compressor fitting (High side)
	LB56-61-J1X	1	Compressor fitting (Low side)
Caution Label	EAY0-61-439	1	
Compressor	GB6H-61-450D	1	For 2.0L (I-4)
	GB6M-61-450D	1	For 2.5L (V-6)

< for 1988-1992 Model >

Part Name	Part Number	Quantity	Remarks
Receiver Drier	GJ51-61-501B	1	
Adapter-High side	EAY0-61-FOX	1	Straight
Adapter-Low side	NAY0-61-F1Y	1	90-Degree
O-ring	LB51-61-J1X	1	Both ends of Receiver Drier
	LB54-61-J1X	1	Compressor fitting (High side)
	LB56-61-J1X	1	Compressor fitting (Low side)
	UHY8-61-J1X	1	For Pressure switch on Receiver Drier
Caution Label	EAY0-61-439	1	
Compressor Oil (250cc/Can)	W257-61-K39	1	Requires 80cc/vehicle

< for 1986-1987 Model >

Part Name	Part Number	Quantity	Remarks
Receiver Drier	GEY0-61-500	1	
Adapter-High side	EAY0-61-FOX	1	Straight
Adapter-Low side	EAY0-61-FOY	1	Straight
O-ring	LB53-61-J1X	1	Both ends of Receiver Drier
	LB54-61-J1X	1	Compressor fitting (High side)
	LB56-61-J1X	1	Compressor fitting (Low side)
	UHY8-61-J1X	1	For Pressure switch on Receiver Drier
Caution Label	EAY0-61-439	1	
Compressor Oil (250cc/Can)	H760-61-K39	1	Requires 100cc/vehicle

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929

< for 1992-1993 Model >

Part Name	Part Number	Quantity	Remarks
Receiver Drier	HGY0-61-501	1	
"O" Ring Kit	HGY0-61-F00	1	See Note
Caution Label	EAY0-61-439	1	
Compressor	HGY0-61-450	1	

< for 1990(*)-1991 Model >

Part Name	Part Number	Quantity	Remarks
Receiver Drier	HEY0-61-501	1	
"O" Ring Kit	HEY0-61-F00	1	See Note
Caution Label	EAY0-61-439	1	
Compressor Oil (250cc/Can)	H760-61-K39	1	Requires 100cc/Vehicle

(*) JM1HC22**L0312438 and higher

< for 1988-1990(*) Model >

Part Name	Part Number	Quantity	Remarks
Receiver Drier	HEY1-61-501	1	
"O" Ring Kit	HEY0-61-F00	1	See Note
Caution Label	EAY0-61-439	1	
Compressor Oil (250cc/Can)	H760-61-K39	1	Requires 100cc/Vehicle

(*)JM1HC22**L0312437 and lower

MX-3

< for 1992-1993 Model >

Part Name	Part Number	Quantity	Remarks
Receiver Drier	EA70-61-500	1	
Adapter-High side	EAY0-61-FOX	1	Straight
Adapter-Low side	EAY0-61-FOY	1	Straight
O-ring	LB51-61-J1X	1	Both ends of Receiver drier
	LB54-61-J1X	1	Compressor fitting (High side)
	LB56-61-J1X	1	Compressor fitting (Low side)
Caution Label	EAY0-61-439	1	
Compressor	EA76-61-450C	1	For 1.6L (I-4)
	EA70-61-450C	1	For 1.8L (V-6)

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MX-5

< for 1990-1993 Model >

Part Name	Part Number	Quantity	Remarks
Receiver Drier	NA01-61-500A	1	
Adapter-High side	NAY0-61-F1X	1	90-Degree
Adapter-Low side	NAY0-61-F1Y	1	90-Degree
O-ring	LB51-61-J1X	1	Both ends of Receiver Drier
	LB54-61-J1X	1	Compressor fitting (High side)
	LB56-61-J1X	1	Compressor fitting (Low side)
Caution Label	EAY0-61-439	1	
Compressor Oil (250cc/Can)	FD15-61-K39	1	Requires 150cc/vehicle

RX-7

< for 1993-1994 Model with MANA A/C >

Part Name	Part Number	Quantity	Remarks
Receiver Drier	FD01-61-500B	1	
Adapter-High side	EAY0-61-FOX	1	Straight
Adapter-Low side	EAY0-61-FOY	1	Straight
O-ring	LB51-61-J1X	1	Both ends of Receiver Drier, Condenser (Outlet)
	LB54-61-J1X	1	Condenser (Inlet), Compressor fitting (High side)
	LB56-61-J1X	1	Compressor fitting (Low side)
Caution Label	EAY0-61-439	1	
Compressor Oil (250cc/Can)	FD15-61-K39	1	Requires 150cc/vehicle
Condenser	FD31-61-480	1	

< for 1993-1994 Model with ND A/C >

Part Name	Part Number	Quantity	Remarks
Receiver Drier	FDY1-61-501	1	
"O" Ring Kit	LCY0-61-F00	1	See Note
Caution Label	EAY0-61-439	1	
Compressor Oil (250cc/Can)	FD15-61-K39	1	Requires 120cc/Vehicle

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< for 1986-1992 Model with MANA A/C >

Part Name	Part Number	Quantity	Remarks
Receiver Drier	FBY0-61-500	1	
Adapter-High side	EAY0-61-FOX	1	Straight
Adapter-Low side	NAY0-61-F1Y	1	90-Degree
O-ring	LB53-61-J1X	1	Both ends of Receiver Drier
	LB54-61-J1X	1	Compressor fitting (High side)
	LB56-61-J1X	1	Compressor fitting (Low side)
Caution Label	EAY0-61-439	1	
Compressor Oil (250cc/Can)	UHY8-61-K39	1	Requires 135cc/vehicle

< for 1986-1991 Model with ND A/C >

Part Name	Part Number	Quantity	Remarks
Receiver Drier	FBY1-61-500	1	
"O" Ring Kit	LCY0-61-F00	1	See Note
Caution Label	EAY0-61-439	1	
Compressor Oil (250cc/Can)	W257-61-K39	1	Requires 80cc/Vehicle
Pressure Switch	FBY1-61-503	1	

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MPV

< for 1989-1993 Model with Single A/C >

Part Name	Part Number	Quantity	Remarks
Receiver Drier	LB50-61-500	1	
Adapter-High side	NAY0-61-F1X	1	For 2.6L (I-4), 90-Degree
Adapter-High side	EAY0-61-FOX	1	For 3.0L (V-6), Straight
Adapter-Low side	NAY0-61-F1Y	1	For 2.6L (I-4), 90-Degree
Adapter-Low side	EAY0-61-FOY	1	For 3.0L (V-6), Straight
O-ring	LB52-61-J1X	1	Receiver drier (Outlet side)
	LB53-61-J1X	1	Receiver drier (Inlet side)
	LB54-61-J1X	1	Compressor fitting (High side)
	LB56-61-J1X	1	Compressor fitting (Low side)
Caution Label	EAY0-61-439	1	
Compressor Oil (250cc/Can)	W257-61-K39	1	Requires 100cc/vehicle

< for 1989-1993 Model with Dual A/C >

Part Name	Part Number	Quantity	Remarks
Receiver Drier	LCY0-61-501	1	
"O" Ring Kit	LCY0-61-F00	1	See Note
Caution Label	EAY0-61-439	1	
Compressor Oil (250cc/Can)	W257-61-K39	1	Requires 120cc/Vehicle

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B2200/B2000

< for 1986-1993 Model >

Part Name	Part Number	Quantity	Remarks
Receiver Drier	UHY8-61-500	1	
Adapter-High side	NAY0-61-F1X	1	90-Degree
Adapter-Low side	EAY0-61-FOY	1	Straight
O-ring	LB53-61-J1X	1	Both ends of Receiver drier
	LB54-61-J1X	1	Compressor fitting (High side)
	LB56-61-J1X	1	Compressor fitting (Low side)
	UHY8-61-J1X	1	For pressure switch on Receiver Drier
Caution Label	EAY0-61-439	1	
Compressor Oil (250cc/Can)	UHY8-61-K39	1	Requires 135cc/vehicle

B2600

< for 1987-1993 Model >

Part Name	Part Number	Quantity	Remarks
Receiver Drier	UHY9-61-500	1	
Adapter-High side	NAY0-61-F1X	1	90-Degree
Adapter-Low side	EAY0-61-FOY	1	Straight
O-ring	LB53-61-J1X	1	Receiver drier fittings
	LB54-61-J1X	1	Compressor fitting (High side)
	LB56-61-J1X	1	Compressor fitting (Low side)
	UHY8-61-J1X	1	For pressure switch on Receiver Drier
Caution Label	EAY0-61-439	1	
Compressor Oil (250cc/Can)	UHY8-61-K39	1	Requires 135cc/vehicle

O-rings come in a package of ten each.

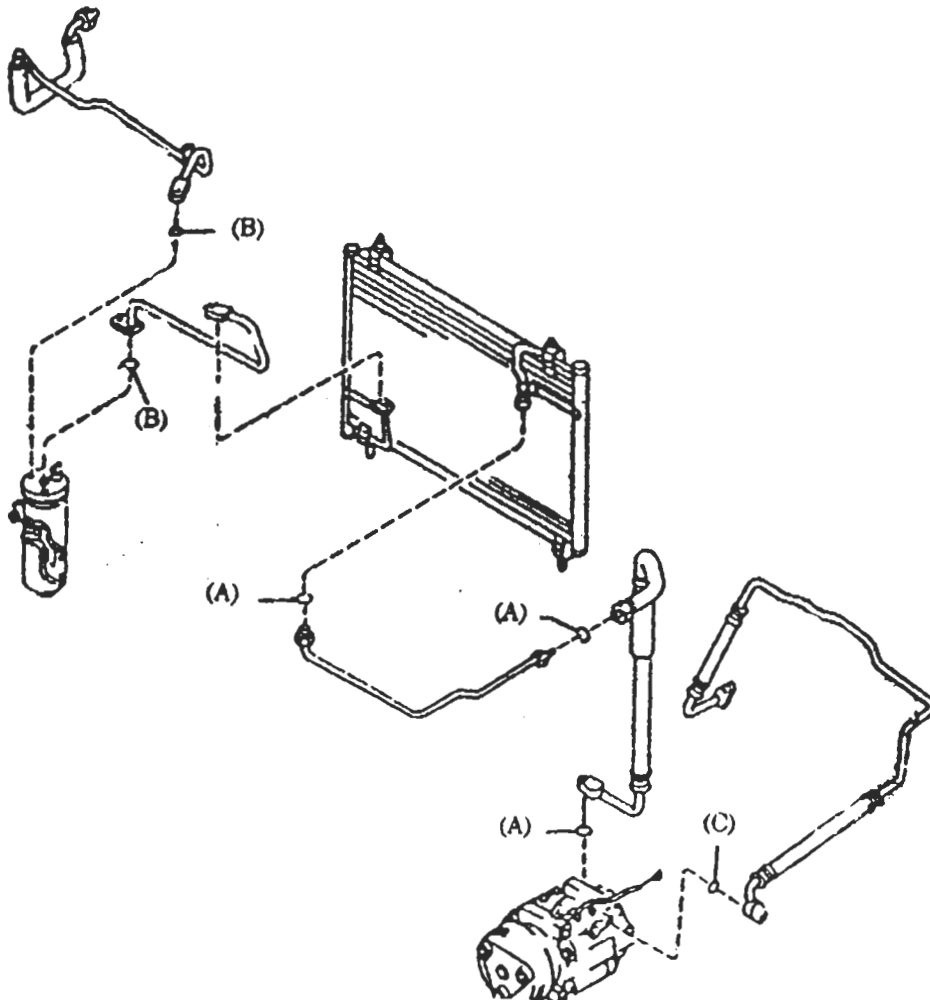
O-ring Kits are as described on the following pages.

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One O-Ring Kit contains the following listed parts.

Check size of O-ring and location as shown below before replacing.

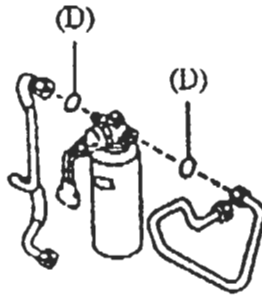
Model	Part No. & Component Part	Quantity	Remarks
'92-93 929	<u>HGYO-61-F00</u>		
	— Adaptor-High Side	1	
	— Adaptor-Low Side	1	
	— O-ring (A) (10.8mm x 1.78mm)	3	
	— O-ring (B) (6.07mm x 1.78mm)	2	
	— O-ring(C) (14.0mm x 1.78mm)	1	



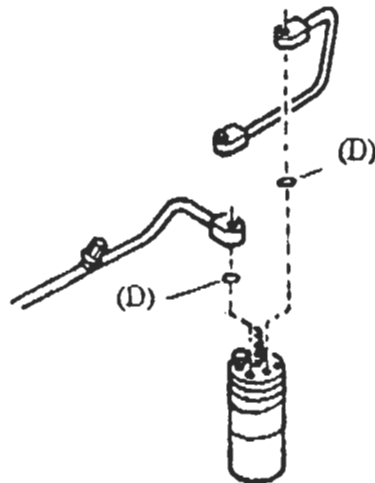
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Model	Part No. & Component Part	Quantity	Remarks
'88-91 929	<u>HEY0-61-F00</u>		
	— Adaptor-High Side	1	
	— Adaptor-Low Side	1	
	— O-ring (D) (6.07mm X 1.78mm)	2	

'88-'90 929 JM1HC22**L0312437 and Lower



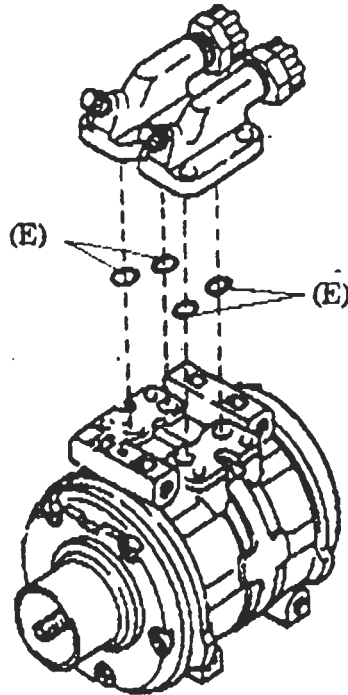
'90-'91 929 JM1HC22**L0312438 and Higher



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Model	Part No. & Component Part	Quantity	Remarks
'89-93 MPV	<u>LCY0-61-F00</u>		
Dual A/C	— Adaptor-High Side (A)	1	This adaptor is necessary for '86-'88 RX-7 only.
	— Adaptor-High Side (B)	1	
'86-'92 RX-7 ND Design	— Adaptor-Low Side	1	(*) Replacement of this O-ring is necessary for '86-'92 RX-7 only.
	— O-ring (E) (19.8mm X 2.4mm)	4 (*)	
'93-'94 RX-7 ND Design			

'86-'92 RX-7 ND Design



R134a A/C Retro-Fit Parts List -- All Mazda Vehicles

Part Name	Part Number	Protege		626/MX-6				929			MX-3		MX-5				RX-7				MPV		B2000	B2600	
		90-94	85-89	93	88-92	86-87	92-93	90-91	88-90	92-93	90-93	93-94	91-94	86-92	86-92	89-93	89-93	89-93	86-93	87-93	Dual A/C	Dual A/C	86-93	87-93	
								*	**			MANA	ND	MANA	ND	Single A/C									
Receiver Drier	BR70-61-500	X																							
	BFY0-61-500		X																						
	GB6H-61-500			X																					
	GJ51-61-501B				X																				
	GEY0-61-500					X																			
	EA70-61-500							X																	
	NA01-61-500A									X															
	LB50-61-500																								
	UHY9-61-500																								X
	UHY8-61-500																							X	
	FD01-61-500B																								
	FBY0-61-500																								
	HEY0-61-501							X																	
	HEY1-61-501																								
	HGY0-61-501									X															
	FBY1-61-501																								
	FDY1-61-501																								
	LCY0-61-501																								
	LCY0-61-501																								
	HEY0-61-P00							X																	
	HGY0-61-P00									X															
	LCY0-61-P00																								
	EAY0-61-P0X			X																				X	
	NAY0-61-FIX																							X	

* JM1HC22**L0312438 and Higher
 ** JM1HC22**L0312437 and Lower

Part Name	Part Number	Protege		323			626/MX-6			929			MX-3		MX-5			RX-7				MPV		B2000		B2600	
		90-94	85-89	93	88-92	86-87	92-93	90-91	88-90	90-91	92-93	90-91	88-90	92-93	90-93	92-93	90-93	93-94	86-92	86-92	86-92	89-93	89-93	86-93	87-93	87-93	
Change Part Adaptor Low Side	EAY0-61-F0Y		X	X		X								X							X		X		X		
	NAY0-61-F1Y			X										X								X					
O-ring Set (+)	LB51-61-J1X	X		X										X													
	LB52-61-J1X																										
Caution Label Compressor Oil	LB53-61-J1X		X			X																					
	LB54-61-J1X	X	X	X	X	X								X										X		X	
	LB56-61-J1X	X	X	X	X	X								X										X		X	
	UHY8-61-J1X		X	X	X	X																					
	EAY0-61-439	X	X	X	X	X	X							X											X		X
	W237-61-K39		X	X	X	X																					
Compressor	FD15-61-K39																										
	UHY8-61-K39																										
	H760-61-K39					X							X														
	BB7C-61-450	X											X														
	BRY0-61-450	X																									
	GB6H-61-450D			X																							
	GB6M-61-450D			X																							
	EA76-61-450C																										
	EA70-61-450C																										
	HGY0-61-450																										
Condensor	FD31-61-480																										
	FBY1-61-503																										
Pressure Switch	BR71-61-461B		X																								
	BR70-61-461B		X																								
High Pressure Hose	BB7C-61-462		X																								
	BB7A-61-462		X																								

Note: (+): *****-61-J1X One O-ring set contains 10 O-rings.
 (+ +): See page 22-24 in this bulletin for detailed information
 * JM1HC22 * L0312438 and Higher
 ** JM1HC22 * L0312437 and Lower

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WARRANTY INFORMATION

Repairs using retrofit parts which are outlined in this service bulletin are covered by warranty only when the warrantable repair for CFC-12 air conditioning system is conducted by those dealers in New Brunswick.

Suggested Repair Times:

- Operation Number: **XX0831RX**
- HFC-134a A/C Retrofit Parts Installation.
- includes evacuating CFC-12 and recharging HFC-134a

Model	Year	Spec.	Hours
Protegé	90-94		1.6
323	85-89		1.7
626	86-87		1.6
MX-6	88-92		1.4
	93		1.4
929	88-91		1.7
	92-93		1.4
MX-3	92-93	V6	2.0
		I4	1.6
MX-5	90-93		1.5
RX-7	86-92	ND	1.5
		MANA	1.4
	93-94	ND	1.7
		MANA	2.0
MPV	89-93	SINGLE A/C	1.6
		DUAL A/C	1.6
B2000	86-93		1.4
B2200			1.4
B2600	87-93		1.4

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MAZDA CANADA INC.
NATIONAL SERVICE DEPARTMENT