




SERVICE BULLETIN

PUBLICATION GROUP, AFTER SALES SERVICE DEP.
MITSUBISHI MOTOR SALES EUROPE BV

SERVICE BULLETIN		No.: ESB-97E55-002	
		Date: 1998-03-15	<Model> (EC,EXP) ECLIPSE (D30) (EC,EXP) CARISMA
Subject: CHANGE IN AIR GAP FOR A/C COMPRESSOR		<M/Y> 96-10 96-10	
Group: HEATER, A/C & VENTILATION			
INFORMATION		 O. Kai - E.V.P. & G.M. After Sales Service Dept.	

1. Description:

This Service Bulletin informs you of change in air gap of the clutch for the A/C compressor.

2. Applicable Manuals:

Manual	Pub. No.	Language	Page(s)
'96 CARISMA Workshop Manual	PWDE9502	(English)	55-4, 34
	PWDS9503	(Spanish)	
	PWDF9504	(French)	
	PWDG9505	(German)	
	PWDD9506	(Dutch)	
	PWDW9507	(Swedish)	
	PWDI96E1	(Italian)	
'96 ECLIPSE Workshop Manual	PWDE95E1	(English)	55-4, 34
	PWDS95E1	(Spanish)	
	PWDF95E1	(French)	
	PWDG95E1	(German)	
	PWDD95E1	(Dutch)	
	PWDI95E1	(Italian)	

3. Effective Date:

CARISMA From April 17, 1997
ECLIPSE From May 2, 1997

4. Details:

'96 CARISMA Workshop Manual, Page 2, 3
'96 ECLIPSE Workshop Manual, Page 4, 5

Caution**Do not heat R-134a above 40°C**

In most instances, moderate heat is required to bring the pressure of the refrigerant in its container above the pressure of the system when charging or adding refrigerant.

A bucket or large pan of hot water not over 40°C is all the heat required for this purpose. Do not heat the refrigerant container with a blow torch or any other means that would raise temperature and pressure above this temperature. Do not weld or steam clean on or near the system components or refrigerant lines.

Caution**Keep R-134a containers upright when charging the system.**

When metering R-134a into the refrigeration system keep the supply tank or cans in an upright position. If the refrigerant containers on its side or upside down, liquid refrigerant will enter the system and damage the compressor.

Caution

- 1. The leak detector for R-134a should be used to check for refrigerant gas leaks.**
- 2. Do not allow liquid refrigerant to touch bright metal.**

Refrigerant will tarnish bright metal and chrome surfaces, and in combination with moisture can severely corrode all metal surfaces.

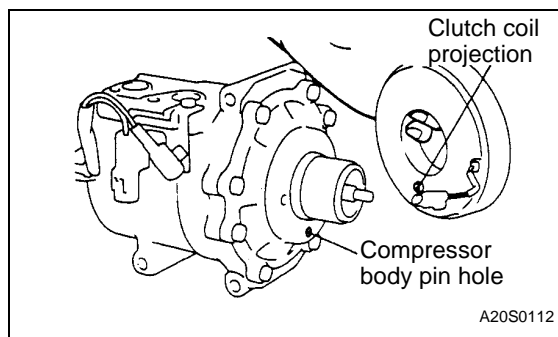
SERVICE SPECIFICATIONS

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Items		Standard value
Idle speed r/min	4G92	750 ± 50
	4G93	800 ± 50
Idle speed r/min		850 ± 50
Resistor (for blower motor) Ω	LO	2.30
	ML	1.10
	MH	0.40
Refrigerant temperature switch	ON (continuity) temperature	Approx. 155°C or less
	OFF (no continuity) temperature	Approx. 155°C or more (until the temperature drops to approx. 125°C when OFF)
Air gap (Magnetic clutch) mm		0.4 - 0.65 <Old>

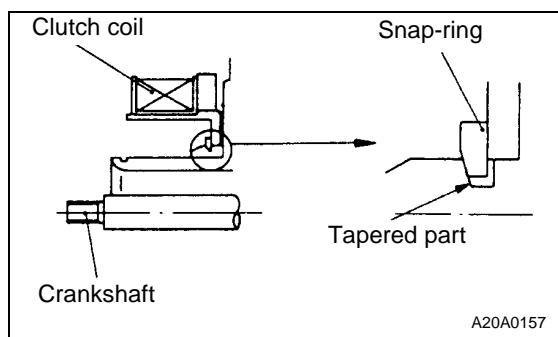
0.3 - 0.5

<New>



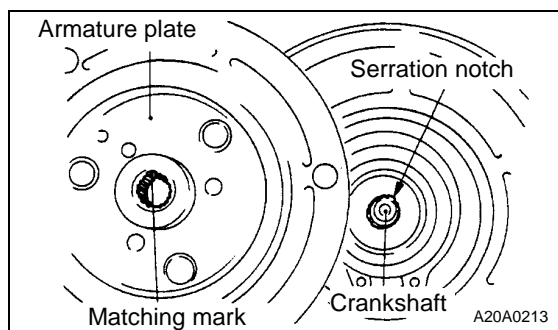
►C◄ CLUTCH COIL INSTALLATION

When installing the clutch coil to the A/C compressor body, install so that the pin hole of the A/C compressor body and the clutch coil projection are aligned.



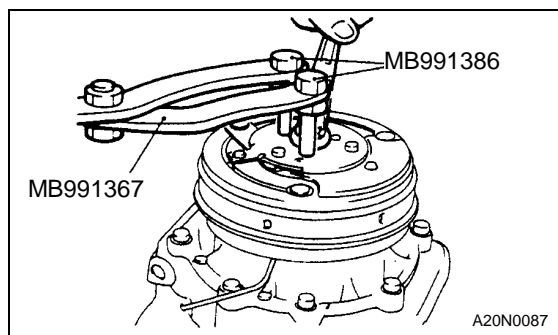
►D◄ SNAP RING INSTALLATION

Install the snap ring so that the tapered surface is at the outer side.

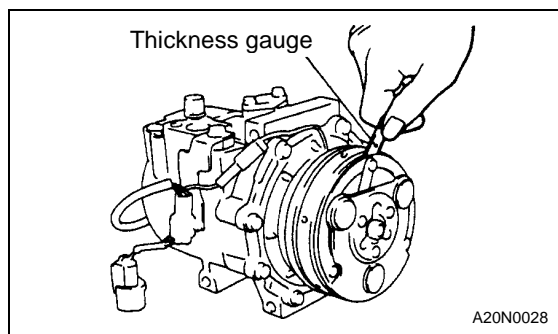


►E◄ ARMATURE PLATE INSTALLATION

Align the mating mark of the crankshaft spline and the mating mark of the armature plate, and then fit them together.



►F◄ NUT INSTALLATION



►G◄ AIR GAP ADJUSTMENT

Check whether or not the air gap of the clutch is within the standard value. <Old>

Standard value: ~~0.4~~ 0.65 mm

<New>
0.3 - 0.5

NOTE

If there is a deviation of the air gap from the standard value, make the necessary adjustment by adjusting the number of shims.

SERVICE SPECIFICATIONS

Items		Standard value
Idle speed r/min		850 ± 50
Idle-up speed r/min		850 in Neutral
Resistor (for blower motor) Ω	LO	1.83
	ML	0.87
	MH	0.31
Refrigerant temperature switch	ON (continuity) temperature	Approx. 160°C or less
	OFF (no continuity) temperature	Approx. 160°C or more (until the temperature drops to approx. 125°C when OFF)
Air gap (Magnetic clutch) mm		0.4 - 0.65 <Old>

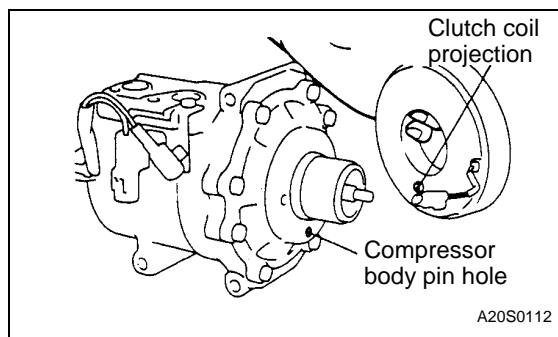


LUBRICANTS

0.3 - 0.5 <New>

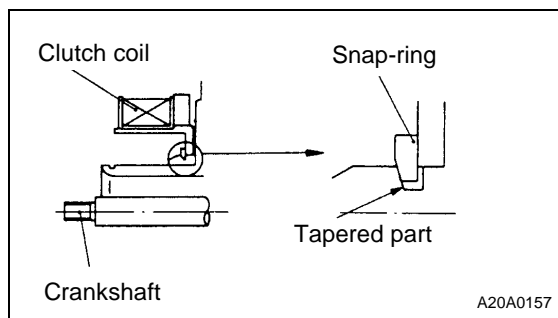
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Items	Specified lubricants	Quantity
Each connection of refrigerant line Lip seal of the compressor	SUN PAG 56	As required
Compressor refrigerant unit lubricant lubricant mℓ	SUN PAG 56	170 - 190



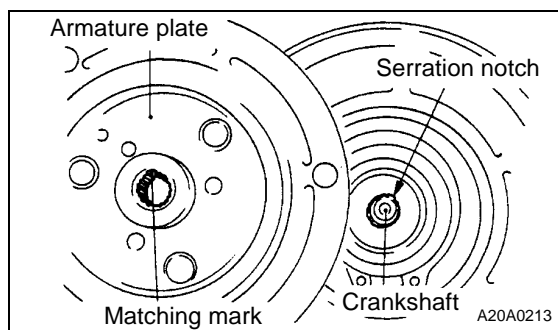
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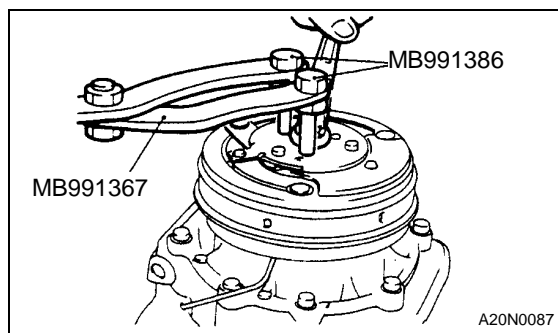
►D◄ SNAP RING INSTALLATION

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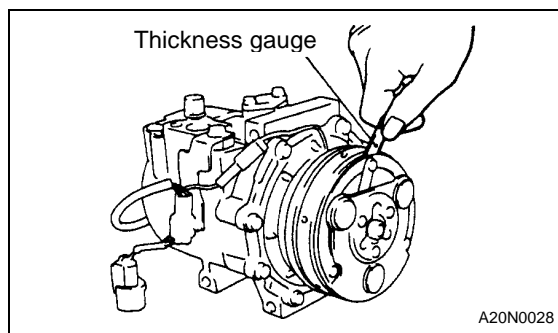


►E◄ ARMATURE PLATE INSTALLATION

Align the mating mark of the crankshaft spline and the mating mark of the armature plate, and then fit them together.



►F◄ NUT INSTALLATION



►G◄ AIR GAP ADJUSTMENT

Check whether or not the air gap of the clutch is within the standard value.

Standard value:

<Old> 0.4 - 0.65 mm	<New> 0.3 - 0.5
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NOTE

If there is a deviation of the air gap from the standard value, make the necessary adjustment by adjusting the number of shims.