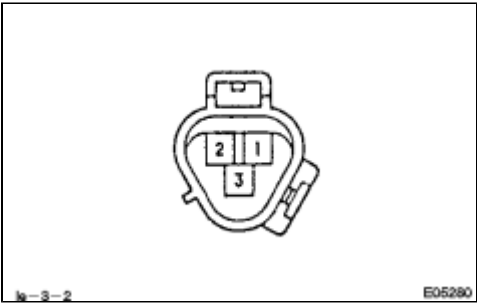


Last Modified: 7-13-2007		1.7 G
Service Category: Vehicle Interior	Section: Heating/Air Conditioning	
Model Year: 2008	Model: ES350	Doc ID: RM000002CW100BX
Title: AIR CONDITIONING: COMPRESSOR AND MAGNETIC CLUTCH: INSPECTION (2008 ES350)		

INSPECTION

1. INSPECT COMPRESSOR AND MAGNETIC CLUTCH (A/C LOCK SENSOR)



- (a) Measure the resistance according to the value(s) in the table below.
- Standard resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
1 - 2	Always (at 20°C (68°F))	165 to 205 Ω

If the resistance is not as specified, replace the compressor and magnetic clutch.

2. INSPECT COMPRESSOR AND MAGNETIC CLUTCH (A/C COMPRESSOR SOLENOID)

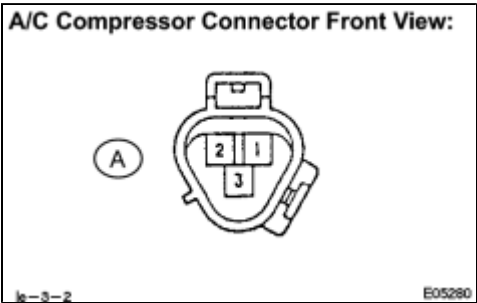


- (a) Measure the resistance according to the value(s) in the table below.
- Standard resistance:

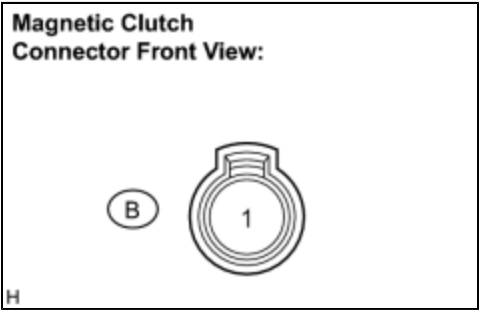
TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
2 - 1	20°C (68°F)	10 to 11 Ω

If the resistance is not as specified, replace the compressor and magnetic clutch.

3. INSPECT COMPRESSOR AND MAGNETIC CLUTCH



- (a) Disconnect the connector from the compressor and magnetic clutch.



(b) Disconnect the connector from the magnetic clutch.

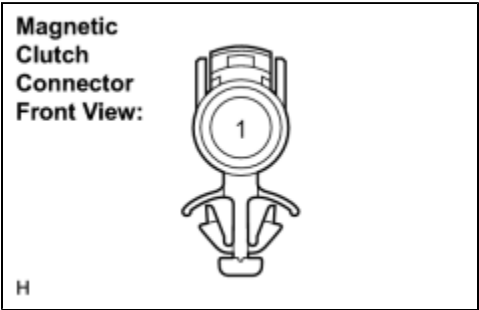
(c) Measure the resistance according to the value(s) in the table below.

Standard resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A-3 - B-1	Always	Below 1 Ω
A-3 - Body ground	Always	10 k Ω or higher

If the resistance is not as specified, replace the compressor and magnetic clutch.

4. INSPECT MAGNETIC CLUTCH



(a) Measure the resistance according to the value(s) in the table below.

Standard resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
1 - Body ground	Always	3.4 to 3.8 Ω

If the resistance is not as specified, replace the magnetic clutch.

(b) When connector terminal 1 is connected to the positive (+) battery terminal, check that the following occurs: 1) the magnetic clutch's operating sound can be heard, and 2) the magnetic clutch's hub and rotor lock.

OK:

1)
The magnetic clutch's operating sound can be heard.

2)
The magnetic clutch's hub and rotor lock.

If the result is not as specified, replace the magnetic clutch.

