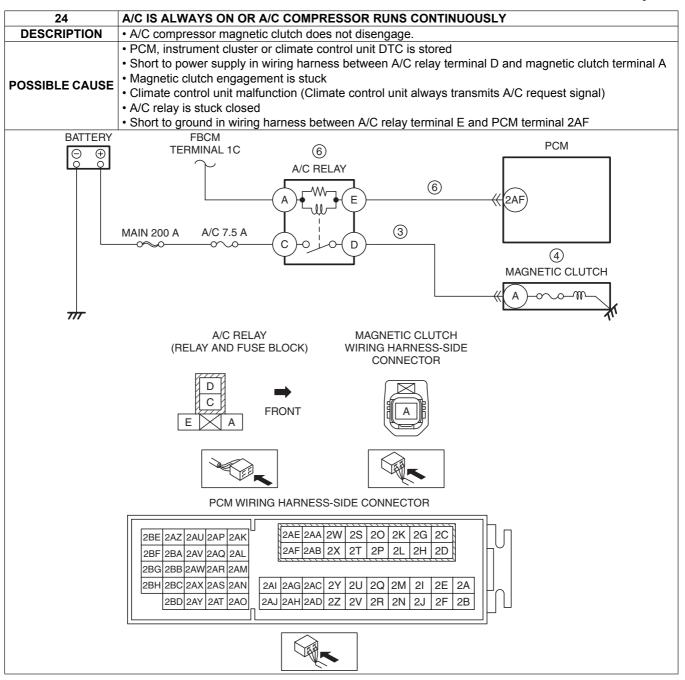
NO.24 A/C IS ALWAYS ON OR A/C COMPRESSOR RUNS CONTINUOUSLY [SKYACTIV-G 2.0, SKYACTIV-G 2.5]

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Diagnostic Procedure

Diagilo	Diagnostic Procedure				
STEP	INSPECTION	RESULTS	ACTION		
1	VERIFY PCM, INSTRUMENT CLUSTER AND	Yes	Go to the applicable DTC inspection.		
	CLIMATE CONTROL UNIT DTC		(See DTC TABLE [SKYACTIV-G 2.0, SKYACTIV-G		
	Retrieve the PCM, instrument cluster and		2.5].)		
	climate control unit DTCs using the M-MDS.		(See DTC TABLE [INSTRUMENT CLUSTER].)		
	(See ON-BOARD DIAGNOSTIC TEST		(See DTC TABLE [FULL-AUTO AIR CONDITIONER].)		
	[SKYACTIV-G 2.0, SKYACTIV-G 2.5].)	No	Go to the next step.		
	(See DTC INSPECTION [INSTRUMENT				
	CLUSTER].)				
	(See DTC DISPLAY [FULL-AUTO AIR				
	CONDITIONER].)				
	Are any DTCs present?				

STEP	INSPECTION	RESULTS	ACTION	
2	DETERMINE IF MALFUNCTION CAUSE IS	Yes	Go to Step 5.	
	MAGNETIC CLUTCH OR OTHER	No	Go to the next step.	
	Start the engine and idle it.			
	Turn the A/C switch on.			
	Remove the A/C relay.			
	Does the magnetic clutch disengage?			
3	INSPECT IF MALFUNCTION CAUSE IS	Yes	Inspect for a short to power supply circuit between	
	MAGNETIC CLUTCH POWER SUPPLY		magnetic clutch terminal A and A/C relay terminal D.	
	CIRCUIT OR MAGNETIC CLUTCH		Repair or replace the wiring harness for a possible short	
	A/C relay is removed.		to power supply if necessary.	
	Switch the ignition off.	No	Go to the next step.	
	Disconnect the magnetic clutch connector.			
	Start the engine and idle it.			
	Does the magnetic clutch disengage?			
4	INSPECT MAGNETIC CLUTCH CLEARANCE	Yes	Inspect the magnetic clutch to see if it is stuck.	
	Verify the magnetic clutch clearance. (See MACOUSTIC CLUTCH AD ILLETATION.)		(See MAGNETIC CLUTCH INSPECTION [MANUAL	
	(See MAGNETIC CLUTCH ADJUSTMENT [MANUAL AIR CONDITIONER].)		AIR CONDITIONER].)	
	(See MAGNETIC CLUTCH ADJUSTMENT		(See MAGNETIC CLUTCH INSPECTION [FULL-AUTO AIR CONDITIONER].)	
	[FULL-AUTO AIR CONDITIONER].)		Replace the magnetic clutch if necessary.	
	• Is the magnetic clutch clearance normal?		(See MAGNETIC CLUTCH DISASSEMBLY/	
	a the magnetic duter dearance normal:		ASSEMBLY [MANUAL AIR CONDITIONER].)	
			(See MAGNETIC CLUTCH DISASSEMBLY/	
			ASSEMBLY [FULL-AUTO AIR CONDITIONER].)	
		No	Adjust the magnetic clutch clearance.	
			(See MAGNETIC CLUTCH ADJUSTMENT [MANUAL	
			AIR CONDITIONER].)	
			(See MAGNETIC CLUTCH ADJUSTMENT [FULL-	
			AUTO AIR CONDITIONER].)	
5	DETERMINE IF MALFUNCTION CAUSE IS A/C	Yes	Climate control unit always transmits A/C request	
	RELAY CONTROL SIGNAL OR A/C REQUEST		signal.	
	SIGNAL		Replace the climate control unit.	
	• Access the PCM PID ACCS using the M-MDS.		(See CLIMATE CONTROL UNIT REMOVAL/	
	(See ON-BOARD DIAGNOSTIC TEST		INSTALLATION [MANUAL AIR CONDITIONER].)	
	[SKYACTIV-G 2.0, SKYACTIV-G 2.5].)		(See CLIMATE CONTROL UNIT REMOVAL/	
	Monitor the PID ACCS while turning on and off		INSTALLATION [FULL-AUTO AIR CONDITIONER].)	
	the air conditioner using the switch on the	No	Go to the next step.	
	control panel.			
6	Is the ACCS PID value always ON? INSPECT A/C RELAY	Yes	Penlace the A/C relay	
٥	• Inspect the A/C relay.	No	Replace the A/C relay. Inspect for a short to ground circuit between A/C relay	
	(See RELAY INSPECTION.)	INU	terminal E and PCM terminal 2AF.	
	• Is there any malfunction?		Repair or replace the wiring harness for a possible short	
	there any manufaction.		to ground if necessary.	
7	Verify the test results.	l .	2 g. 5 s	
	If normal, return to the diagnostic index to service any additional symptoms.			
	(See SYMPTOM DIAGNOSTIC INDEX [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)			
	• If a malfunction remains, inspect the related Service Information and perform the repair or diagnosis.			
	 If the vehicle is repaired, troubleshooting is 			
	 If the vehicle is not repaired or additional di 		ormation is not available, replace the PCM.	
	(See PCM REMOVAL/INSTALLATION [SK	YACTIV-G 2	2.0, SKYACTIV-G 2.5].)	