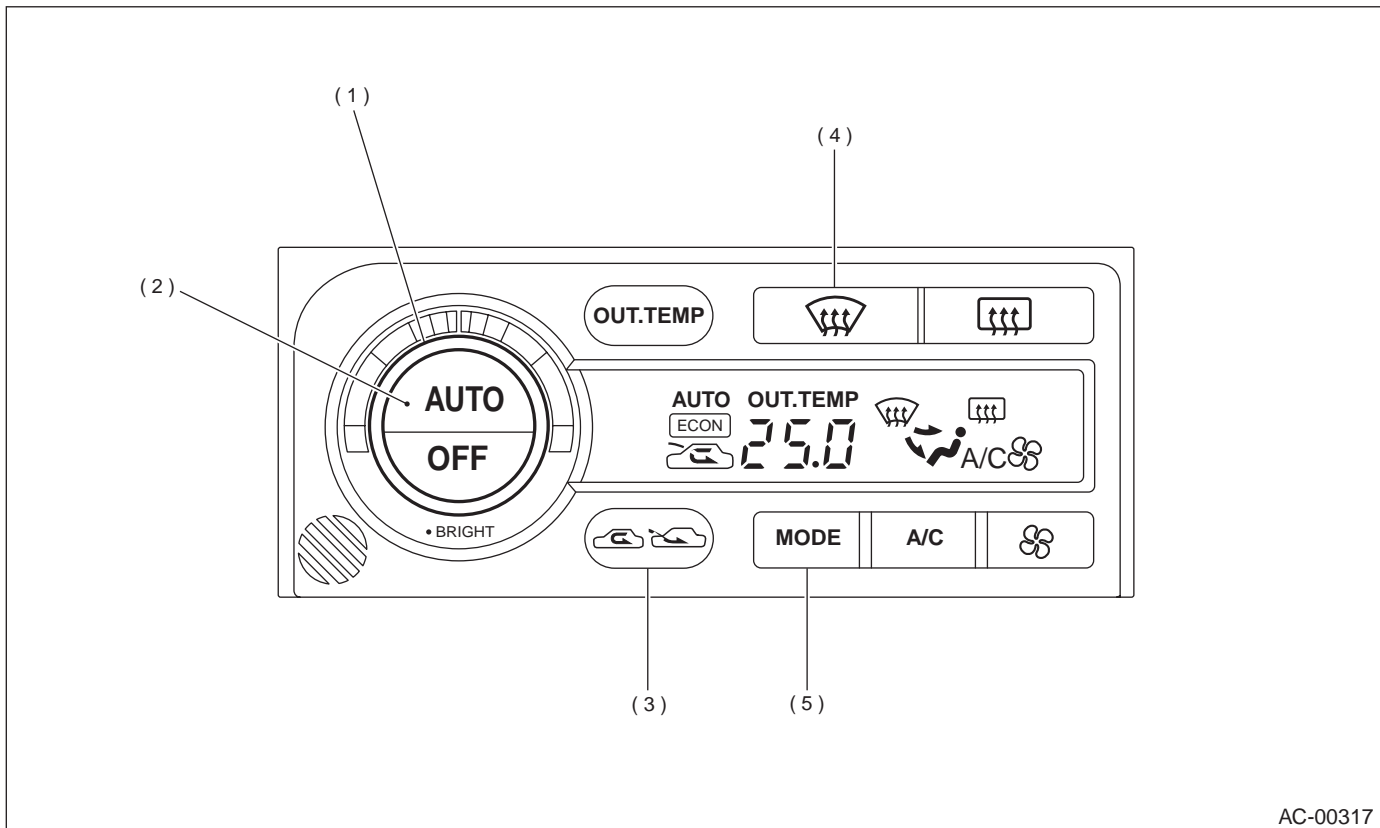


SELF-DIAGNOSIS PROCEDURE

HVAC SYSTEM (AUTO A/C) (DIAGNOSTICS)

5. Self-Diagnosis Procedure

A: OPERATION



AC-00317

(1) Temperature control dial
(2) AUTO switch

(3) FRESH/RECIRC switch
(4) DEF switch

(5) MODE switch

SELF-DIAGNOSIS PROCEDURE

HVAC SYSTEM (AUTO A/C) (DIAGNOSTICS)

Step	Value	Yes	No
1 SELECT CONTROL PANEL TO SELF-DIAGNOSIS MODE. 1) Turn ignition switch to OFF. 2) While pushing "AUTO" and "FRESH/RECIRC" switches, start the engine. Can it be moved to the self-diagnosis mode?	It can be moved to self-diagnosis mode.	Go to step 2.	<Ref. to AC-12, A/C AND/OR SELF-DIAGNOSIS SYSTEMS DO NOT OPERATE, Diagnostics for A/C System Failure.>
2 CHECK INDICATOR. 1) Turn temperature control dial clockwise by one click. 2) Make sure that all characters illuminate on the display. Does each character illuminate?	Each character illuminates.	Go to step 3.	Go to step 7.
3 CHECK EACH SENSOR AND EACH POTENTIOMETER. 1) Turn temperature control dial clockwise by one click. 2) If system has the trouble for each sensor and/or each potentiometer, DTC is indicated on indicator. 3) If system has no trouble, DTC "20" is indicated on indicator. NOTE: When the sunload sensor is checked inside the passenger compartment or in the shade, DTC "25" may appear on the indicator. Always check the sunload sensor in a place where it senses direct sunlight. Is the DTC "20" indicated on indicator?	DTC "20" indicated.	Go to step 4.	Perform diagnosis procedure according to the displayed DTC. <Ref. to AC-22, DTC FOR SENSOR AND POTENTIOMETER, LIST, List of Diagnostic Trouble Code (DTC).>
4 CHECK DOOR MOTOR POSITION SWITCH. 1) Turn temperature control dial clockwise by one click. 2) If system has the trouble for each door position switch, DTC is indicated on indicator. 3) If system has no trouble, DTC "30" is indicated on indicator. Is the DTC "30" indicated on indicator?	DTC "30" indicated.	Go to step 5.	Perform diagnosis procedure for mode door actuator. <Ref. to AC-32, DTC 31, 32, 33, 34 OR 35 (MODE DOOR ACTUATOR), Diagnostic Procedure with Diagnostic Trouble Code (DTC).>
5 CHECK OPERATION OF EACH ACTUATOR, BLOWER FAN AND COMPRESSOR CLUTCH. 1) Turn temperature control dial clockwise by one click. 2) Select operating mode by pushing every "DEF" switch. 3) Check the operation for each mode. •Air inlet: •Air outlet: •Air mix door: •Blower fan: •A/C compressor: Does each mode displayed match the operating mode table? <Ref. to AC-11, OPERATING MODE TABLE, OPERATION, Self-Diagnosis Procedure.>	Each mode displayed match the operating mode table.	Go to step 6.	Go to step 7.

SELF-DIAGNOSIS PROCEDURE

HVAC SYSTEM (AUTO A/C) (DIAGNOSTICS)

Step	Value	Yes	No
6 CHECK INDICATED VALUE OF EACH SENSOR. 1) Turn temperature control dial clockwise by one click. 2) Each time the "DEF" switch is pressed, the value indicated on the display changes to correspond with the ambient sensor, in-vehicle sensor and intake sensor, in that order. 3) Make sure there is no big difference between the temperature indicated on the display and the measured temperature. Is a proper input signal value displayed in each sensor?	Proper input signal value displayed.	End	Go to step 7.
7 CHECK POOR CONTACT. Check poor contact in A/C control module connector. Is there poor contact in connector?	There is no poor contact.	Replace A/C control module.	Repair connector.

1. OPERATING MODE TABLE

Mode display	41	42	43	44	45	46	47	48
Air inlet	REC	REC	REC	FRE	FRE	FRE	FRE	FRE
Air outlet	VENT	VENT	B/L	B/L	B/L	HEAT	D/H	DEF
Air mix door	FULL COOL	FULL COOL	FULL COOL	FULL HOT	FULL HOT	FULL HOT	FULL HOT	FULL HOT
Blower fan	5V	5V	Power supply voltage	8.5V	8.5V	8.5V	8.5V	Power supply voltage
A/C compressor	ON	ON	ON	OFF	OFF	OFF	ON	ON