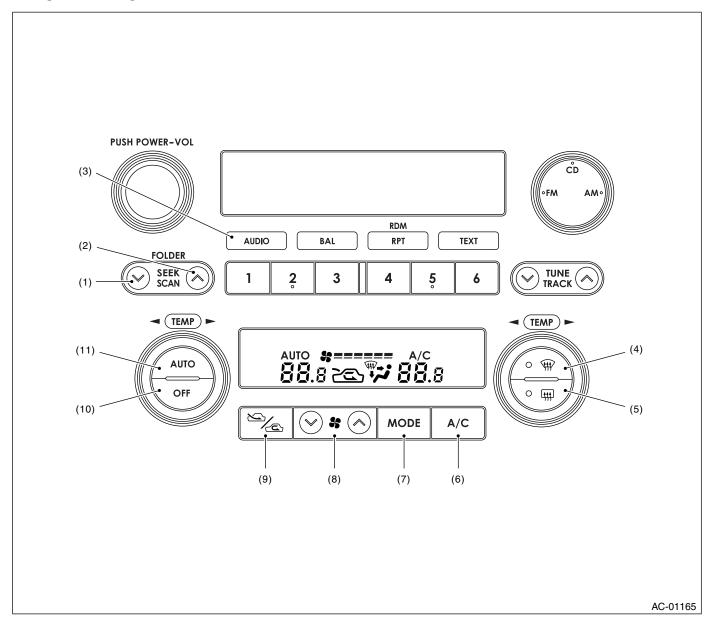
5. Diagnostic Chart for Self-Diagnosis

A: OPERATION



- (1) SEEK DOWN switch
- (2) SEEK UP switch
- (3) AUDIO switch
- (4) Defroster switch

- (5) Rear window defogger switch
- (6) A/C switch
- (7) Air flow control switch
- (8) Fan switch

- (9) FRESH/RECIRC switch
- (10) OFF switch
- (11) AUTO switch

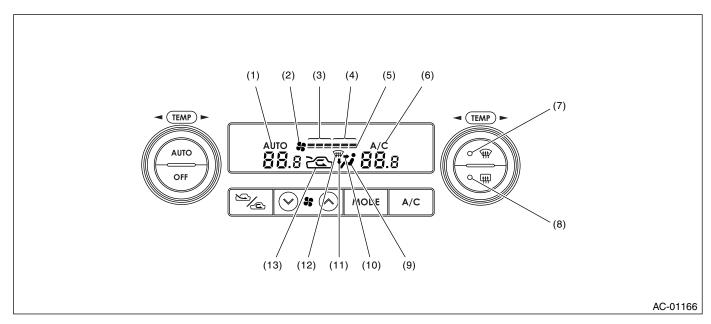
NOTE:

For A/C system self-diagnosis, there is one that checks the control panel, and the other that checks the whole control system (sensor, actuator, blower motor, etc.). Perform the self-diagnosis for control panel first, and then perform the self-diagnosis for control system.

1. A/C CONTROL PANEL SELF-DIAGNOSIS

	Step	Check	Yes	No
1	SET SELF-DIAGNOSIS MODE BY OPERAT-ING A/C CONTROL PANEL. 1) Turn the ignition switch from OFF to ACC, and wait for 2 seconds. 2) Turn the ignition switch to ON with the AUDIO switch and SEEK UP switch pressed. 3) The screen display and indicator illuminate.	Does the self-diagnosis mode operate?	Go to step 2.	<ref. ac(diag)-<br="" to="">15, A/C OR SELF- DIAGNOSIS SYS- TEMS DO NOT OPERATE, Diag- nostics for A/C System Malfunc- tion.></ref.>
2	CHECK DISPLAY AND INDICATOR. Check if all the screen display and indicators come on and then go off. NOTE: "11" — "14" is displayed in the screen when malfunction occurs.	Do all the screen display and indicators come on and then go off?	Go to step 3.	Replace the A/C control panel.
3	CHECK SWITCH AND TEMPERATURE CONTROL DIAL INPUT. According to the switch check table, press each switch or turn the temperature control dial, and check the relative screen display and indicators illuminate. <ref. ac(diag)-12,="" chart="" check="" diagnostic="" for="" operation,="" self-diagnosis.="" switch="" table,="" to=""></ref.>	Does the screen display related to each switch and dial input illuminate?	Go to step 4.	Replace the A/C control panel.
4	CHECK A/C CONTROL PANEL COMMUNICATION. 1) Turn the ignition switch to OFF. 2) Disconnect the auto A/C control module harness connector. 3) Using a suitable lead wire, short the terminal No. 15 and No. 16 of auto A/C control module harness connector (B283). 4) Turn the ignition switch from OFF to ACC, and wait for 2 seconds. 5) Turn the ignition switch to ON with the AUDIO switch and SEEK SOWN switch pressed. 6) When no malfunction occurs in the control panel communication, "CL" is displayed in the screen; and when malfunction occurs, "OP" is displayed.	Is "CL" displayed in the screen?	A/C control panel is normal. Turn the ignition switch to OFF, and connect the auto A/C control module harness connector.	Replace the A/C control panel.

2. SWITCH CHECK TABLE



Switch	Display screen	Switch	Display screen
A/C switch	(6)	FAN switch (+)	(4)
AUTO switch	(1)	FAN switch (-)	(3)
Air flow control switch	(9)	Driver's side temperature control dial	(10) (12)
FRESH/RECIRC	(13)	Passenger's side temperature control dial	(11) (12)
Defroster switch	(7)	OFF switch	(2) (5)
Rear defogger switch	(8)		

3. A/C CONTROL SYSTEM SELF-DIAGNOSIS

	Step	Check	Yes	No
1	SET SELF-DIAGNOSIS MODE BY OPERAT-ING A/C CONTROL PANEL. 1) Turn the ignition switch from OFF to ACC, and wait for 2 seconds. 2) Start the engine with the auto switch and FRESH/RECIRC switch pressed. NOTE: Self-diagnosis can also be performed with ignition switch ON, but start the engine because telling the magnet clutch operation is difficult. 3) All the indicator blinks four times.	Does the self-diagnosis mode operate?	Go to step 2.	<ref. ac(diag)-<br="" to="">15, A/C OR SELF- DIAGNOSIS SYS- TEMS DO NOT OPERATE, Diag- nostics for A/C System Malfunc- tion.></ref.>
2	CHECK EACH SENSOR AND POTENTIO-METER 1) After the indicators are completed to blink, automatically change to the inspection mode of sensor and potentiometer. NOTE: Display items can be changed each time the A/C switch is pressed. (Step Operation) 2) When malfunction occurs in each sensor and potentiometer, codes are displayed on the screen. When no malfunction occurs in each sensor and potentiometer, code "20" is displayed on the screen. 3) Identify the defective sensor according to the sensor check table. <ref. ac(diag)-14,="" chart="" check="" diagnostic="" for="" operation,="" self-diagnosis.="" sensor="" table,="" to=""></ref.>	Are other codes except "20" displayed?	Repair the defective sensor. <ref. ac(diag)-31,="" diagnostic="" for="" procedure="" sensors.="" to=""></ref.>	Go to step 3.
3	CHECK EACH ACTUATOR, BLOWER FAN AND MAGNET CLUTCH. 1) After completing each sensor and potentiometer inspection, change to the inspection mode of actuator, blower fan and magnet clutch by pressing the defroster switch. 2) Each mode will change and operate automatically every four seconds. NOTE: Operation mode items can be changed each time the A/C switch is pressed. (Step Operation) 3) Check the operation of actuator, blower fan and magnet clutch in each mode according to the operating mode table. <ref. ac(diag)-14,="" chart="" diagnostic="" for="" mode="" operating="" operation,="" self-diagnosis.="" table,="" to=""></ref.>		A/C control system is normal. Press the OFF switch and complete the self-diagnosis mode.	Repair the mal- function part in accordance with each diagnostic chart. <ref. to<br="">AC(diag)-15, Diag- nostics for A/C System Malfunc- tion.> or <ref. to<br="">AC(diag)-24, Diag- nostic Procedure for Actuators.></ref.></ref.>

4. SENSOR CHECK TABLE

NOTE:

When the sunload sensor check is conducted indoors or in the shade, open circuit might be indicated. Always check the sunload sensor at the place where the sun shines directly on it.

Display screen (Malfunction at present) *1	SENSOR	Trouble contents	
21/AUTO Blink	In-vehicle sensor	Open	
–21/AUTO Blink	- III-veriicie serisor	Short	
22/AUTO Blink	Ambient sensor	Sensor trouble or communication malfunction	
23/AUTO Blink	F	Open	
-23/AUTO Blink	Evaporator sensor	Short	
24/AUTO Blink	Engine coolant temperature sensor	Sensor trouble or communication malfunction	
25 Blink	Sunload sensor	Open *2	
–25/AUTO Blink		Short	
26/AUTO Blink	Driver's side air mix door actuator	COOL	
27/AUTO Blink	potentiometer	HOT	
–26/AUTO Blink	Passenger's side air mix door actua-	COOL	
–27/AUTO Blink	tor potentiometer	HOT	
28/AUTO Blink	Made deer estuder notantismeter	FACE	
29/AUTO Blink	Mode door actuator potentiometer	DEF	
20 Blink	When all conditions are normal		

^{*1: &}quot;AUTO" display does not blink when past malfunction occurred. Past malfunction means that abnormal signal had input for a certain time continuously in the past.

5. OPERATING MODE TABLE

Display screen	FRESH/RECIRC door	Mode door	Air mix door*	Blower fan	A/C compressor (Mag- net clutch)
31	FRESH	FACE	Maximum cool	LO	OFF
32	RECIRC	FACE	Maximum cool	LO	ON
33	RECIRC	FACE	Maximum cool	M1	ON
34	FRESH	B/L	50%	M1	ON
35	FRESH	FOOT	50%	M1	ON
36	FRESH	FOOT	Maximum hot	M3	ON
37	FRESH	F/D	Maximum hot	M3	ON
38	FRESH	DEF	Maximum hot	HI	ON

^{*:} Same opening angle for both driver's and passenger's side.

^{*2:} Present malfunction only is displayed for sunload sensor open circuit.