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 AUTO switch and SEEK UP switch pressed. 3) The screen display and indicator illuminate. 	Does the self-diagnosis func- tion operate?	Go to step 2.	<ref. ac(diag)-<br="" to="">14, 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 on the screen when malfunction occurs.	Do all the screen display and indicators come on then go off?	Go to step 3 .	Replace the A/C control panel.
3	CHECK SWITCH AND TEMPERATURE CON- TROL 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)-11,<br="" to="">SWITCH CHECK TABLE, OPERATION, Diag- nostic Chart for Self-diagnosis.></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 COMMUNI- CATION. 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 AUTO switch and SEEK DOWN 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 on the screen?	A/C control panel is normal. Turn the ignition switch to OFF, and connect the auto A/C con- trol module har- ness 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 con- trol 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 igni- tion switch ON, but start the engine because observing the magnet clutch operation is diffi- cult. 3) All the indicators blink four times. 	Does the self-diagnosis func- tion operate?	Go to step 2.	<ref. ac(diag)-<br="" to="">14, A/C OR SELF- DIAGNOSIS SYS- TEMS DO NOT OPERATE, Diag- nostics for A/C System Malfunc- tion.></ref.>
2	 CHECK EACH SENSOR AND POTENTIOME- TER. 1) After the indicators stop blinking, automati- cally 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 dis- played on the screen. 3) Identify the defective sensor according to the sensor check table. <ref. ac(diag)-13,<br="" to="">SENSOR CHECK TABLE, OPERATION, Diag- nostic Chart for Self-diagnosis.></ref.> 	Are other codes except 20 displayed?	Repair the defec- tive sensor. <ref. to AC(diag)-29, Diagnostic Proce- dure for Sensors.></ref. 	Go to step 3.
3	CHECK EACH ACTUATOR, BLOWER FAN AND MAGNET CLUTCH. 1) After completing each sensor and potenti- ometer 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 auto- matically every four seconds. NOTE: Operation mode items can be changed each time the A/C switch is pressed. (Step Opera- tion) 3) Check the operation of actuator, blower fan and magnet clutch in each mode according to the operating mode table. <ref. ac(diag)-<br="" to="">13, OPERATING MODE TABLE, OPERATION, Diagnostic Chart for Self-diagnosis.></ref.>	Do the actuator, blower fan and magnet clutch operate as described in the operating mode table?	A/C control system is normal. Press the OFF switch and complete the self-diagnosis function.	Repair the defec- tive part in accor- dance with each diagnostic chart. <ref. ac(diag)-<br="" to="">14, Diagnostics for A/C System Mal- function.> or <ref. to AC(diag)-22, Diagnostic Proce- dure for Actua- tors.></ref. </ref.>

4. SENSOR CHECK TABLE

NOTE:

When the sunload sensor check is performed indoors or in the shade, it could be diagnosed as having an open circuit. Always check the sunload sensor with the sun shining on it.

Display screen (Malfunction at present) *1	SENSOR	Trouble contents	
21/AUTO Blink	In vehicle consor	Open	
–21/AUTO Blink		Short	
22/AUTO Blink	Ambient sensor	Sensor trouble or communication failure	
23/AUTO Blink	Evenerator concer	Open	
–23/AUTO Blink		Short	
24/AUTO Blink	Engine coolant temperature sensor	Sensor trouble or communication failure	
25 Blink	Suplead concer	Open *2	
–25/AUTO Blink	Sumoad sensor	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 actentiometer	FACE	
29/AUTO Blink		DEF	
20 Blink	When al	conditions are normal	

*1: AUTO display does not blink when past malfunction occurred. Past malfunction means that abnormal signals were continuously input for a certain time in the past.

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

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