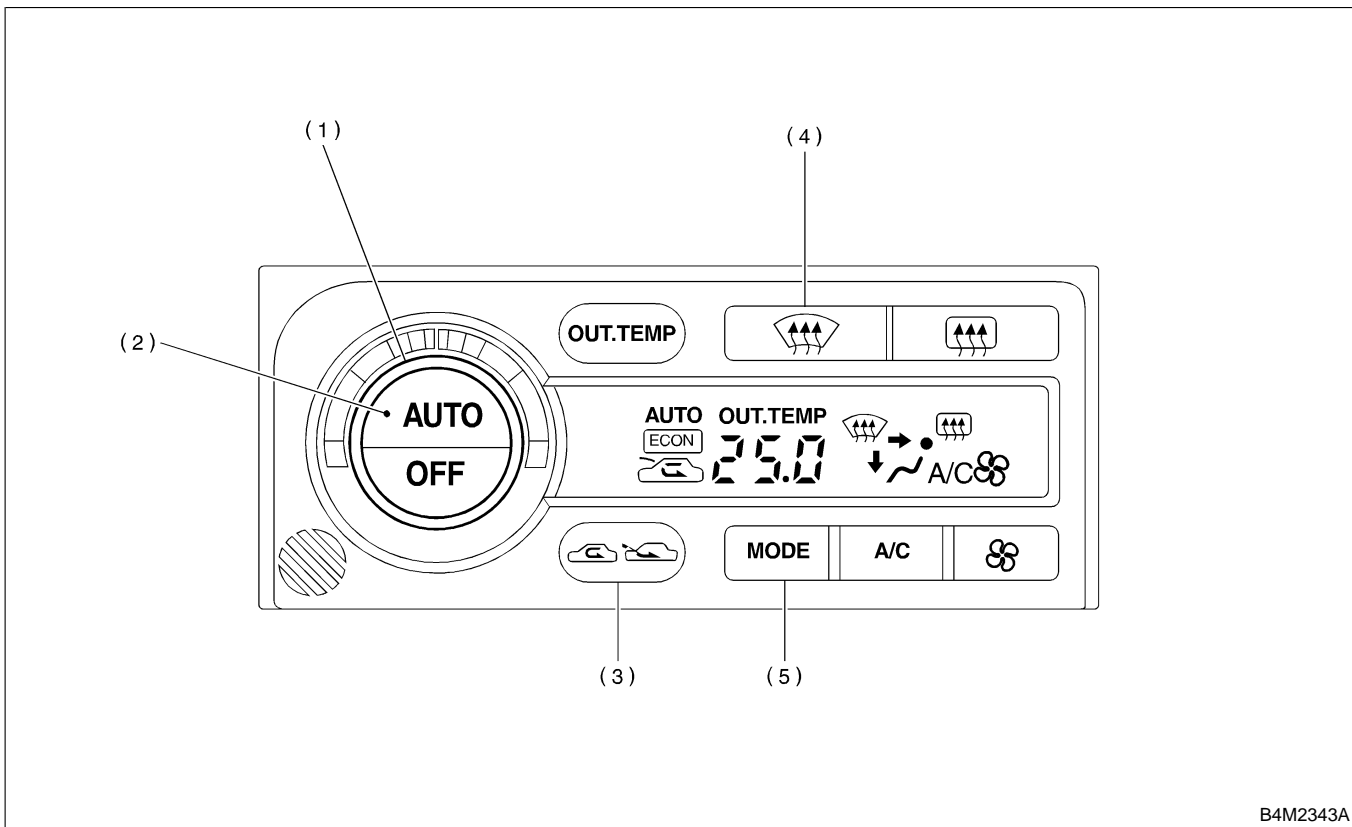


# DIAGNOSTICS CHART FOR DIAGNOSIS SYSTEM

HVAC System (Auto A/C) (DIAGNOSTICS)

## 5. Diagnostics Chart for Diagnosis System S001624

### A: SELF-DIAGNOSIS MODE S001624F36



- (1) Temperature select dial
- (2) AUTO switch

- (3) REC switch
- (4) DEF switch

- (5) MODE switch

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No.	Step	Check	Yes	No
1	<b>SELECT CONTROL PANEL TO SELF-DIAGNOSIS MODE.</b> 1) Turn ignition switch to OFF. 2) While pushing "AUTO" and "REC" switches, start the engine.	Can it be moved to the self-diagnosis mode?	Go to step 2.	<Ref. to AC-16 A/C AND/OR SELF-DIAGNOSIS SYSTEMS DO NOT OPERATE, Diagnostics for A/C System Failure.>
2	<b>CHECK INDICATOR AND BUZZER.</b> 1) Turn temperature select dial clockwise by one click. 2) Make sure that all characters illuminate on the display, and that the buzzer continuously sounds.	Does each character illuminate and buzzer sound?	Go to step 3.	Go to step 7.
3	<b>CHECK EACH SENSOR AND EACH POTENTIOMETER.</b> 1) Turn temperature select dial clockwise by one click. 2) If system has the trouble for each sensor and/or each potentiometer, trouble code is indicated on indicator. 3) If system has no trouble, code "20" is indicated on indicator. NOTE: When the sunload sensor is checked inside the passenger compartment or in the shade, code "25" may appear on the indicator. Always check the sunload sensor in a place where it senses direct sunlight.	Is the code "20" indicated on indicator?	Go to step 4.	Repair each trouble code.
4	<b>CHECK DOOR MOTOR POSITION SWITCH.</b> 1) Turn temperature select dial clockwise by one click. 2) If system has the trouble for each door position switch, trouble code is indicated on indicator. 3) If system has no trouble, code "30" is indicated on indicator.	Is the code "30" indicated on indicator?	Go to step 5.	Repair each trouble code.
5	<b>CHECK OPERATION OF EACH ACTUATOR, BLOWER FAN AND COMPRESSOR CLUTCH.</b> 1) Turn temperature select dial clockwise by one click. 2) Select operating mode by pushing every "DEF" switch. 3) Check the operation for each mode. <ul style="list-style-type: none"> <li>● Air inlet:</li> <li>● Air outlet:</li> <li>● Air mix door:</li> <li>● Blower fan:</li> <li>● A/C compressor:</li> </ul>	Does each mode displayed match the operating mode table? <Ref. to AC-14 OPERATING MODE TABLE, SELF-DIAGNOSIS MODE, Diagnostics Chart for Diagnosis System.>	Go to step 6.	Go to step 7.

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No.	Step	Check	Yes	No
6	<p><b>CHECK INDICATED VALUE OF EACH SENSOR.</b></p> <p>1) Turn temperature select dial clockwise by one click.</p> <p>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.</p> <p>3) Make sure there is no big difference between the temperature indicated on the display and the measured temperature.</p> <p>NOTE: If a large temperature difference is noted, check for ECM standard voltage and sensor function using the performance characteristic diagram.</p>	Is a proper input signal value displayed in each sensor?	End	Go to step 7.
7	<p><b>CHECK POOR CONTACT.</b></p> <p>Check poor contact in A/C control module.</p>	Is there poor contact in A/C control module?	Repair poor contact in A/C control module.	Contact with your Subaru distributor.

## 1. OPERATING MODE TABLE S001624F3601

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

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MEMO: