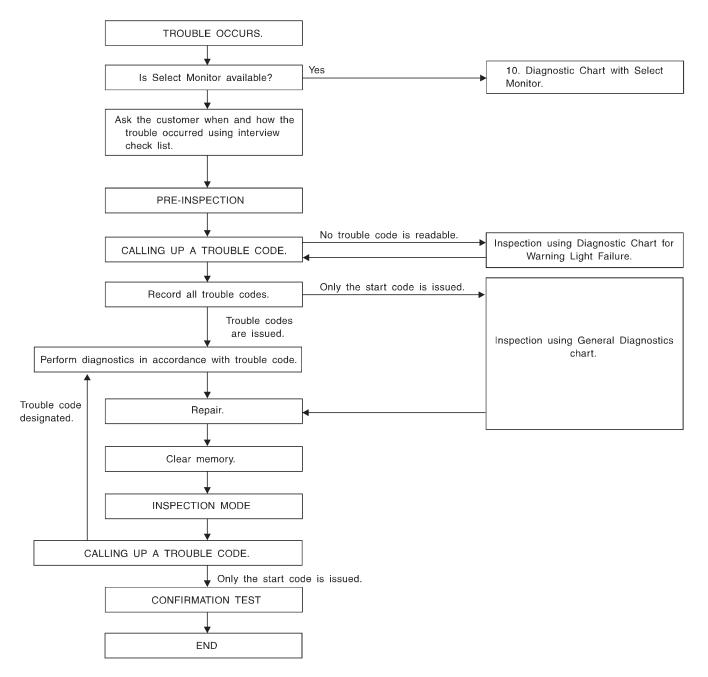
6. Diagnostics Chart for On-board Diagnosis System

A: BASIC DIAGNOSTICS PROCEDURE



B4M1051A

CAUTION:

Remove foreign matter (dust, water, etc.) from the ABSCM&H/U connector during removal and installation.

NOTE:

• To check harness for broken wires or short circuits, shake it while holding it or the connector.

• When ABS warning light illuminates, read and record trouble code indicated by ABS warning light.

B: CHECK LIST FOR INTERVIEW

Check the following items about the vehicle's state.

1. THE STATE OF TH	IE ABS WARNING LIGHT				
ABS warning light comes on.	□ Always □ Sometimes □ Only once □ Does not come on • When /how long does it come on?:				
Ignition key position	□ LOCK □ ACC □ ON (before starting engine) □ START □ On after starting (Engine is running) □ On after starting (Engine is stop)				
Timing	☐ Immediately after ignition is ON. ☐ Immediately after ignition starts.				
	□ When advancing	km/h to	km/h		
		MPH to	MPH		
	☐ While traveling at a constant speed	km/h	MPH		
	☐ When decelerating	km/h to	km/h		
		MPH to	MPH		
	□When turning to right	Steering angle :	deg		
		Steering time :	sec		
	☐ When turning to left	Steering angle :	deg		
		Steering time :	sec		
	☐ When moving other electrical parts				
	Parts name: Operating condition:				
2. SYMPTOMS					
ABS operating	□ Performs no work.				
condition	☐ Operates only when abruptly applying brakes.	Vehicle speed :	km/h		
		ļ	MPH		
	How to step on brake pedal :				
	a) Operating time :		sec		
	b) Operating noise : □ Produce / □ Does not produce				
	What kind of noise?	☐ Knock ☐ Gong gong ☐ Bong ☐ Buzz ☐ Gong gong buzz ☐ Others:			
	c) Reaction force of brake pedal				
		☐ Stick ☐ Press down once with a clunk ☐ Press and released ☐ Others :			

4-4dBRAKES [ABS 5.3i TYPE] 6. Diagnostics Chart for On-board Diagnosis System

Behavior of vehicle	a) Directional stability cannot be obtained or steering arm refuses to work when applying brakes : ☐ Yes / ☐No				
	• When :	 □ Vehicle turns to right □ Vehicle turns to left □ Spins □ Others : 			
	b) Directional stability cannot be obtained or steering arm refuses to work when accelerating : \[\subseteq \text{Yes} / \subseteq \text{No} \]				
	When:	☐ Vehicle turns to right ☐ Vehicle turns to left ☐ Spins ☐ Others:			
	c) Brakes are out of order : □ Yes / □No				
	What:	 □ Braking distance is long □ Brakes lock or drag □ Pedal stroke is long □ Pedal sticks □ Others : 			
	d) Poor acceleration : □ Yes / □No				
	What:	☐ Fails to accelerate ☐ Engine stalls ☐ Others :			
	e) Occurrence of vibration : □ Yes / □No				
	Where What kind:				
	f) Occurrence of abnormal noise : □ Yes / □No				
	Where What kind:				
	g) Occurrence of other phenomena : Yes / No				
	What kind :				
	ER WHICH TROUBLE OCCURS				
Environment	a) Weather	 ☐ Fine ☐ Cloudy ☐ Rainy ☐ Snowy ☐ Various/Others : 			
	b) Ambient temperature	F(°C)			
	c) Road	□ Urban area □ Suburbs □ Highway □ General road □ Ascending slope □ Descending slope □ Paved road □ Gravel road □ Muddy road □ Sandy place □ Others :			
	d) Road surface	□ Dry □ Wet □ New-fallen snow □ Compressed snow □ Frozen slope □ Others :			

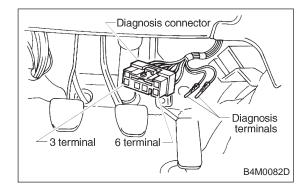
BRAKES [ABS 5.3i TYPE] 4-4d
6. Diagnostics Chart for On-board Diagnosis System

Condition	a) Brakes	Deceleration :	g		
		□ Continuous / □Intermittent			
	b) Accelerator	Acceleration:	g		
		□ Continuous / □ Intermittent			
	c) Vehicle speed	km/h	MPH		
		☐ Advancing ☐ Accelerating ☐ Reducing speed ☐ Low speed ☐ Turning ☐ Others:			
	d) Tire inflation pressure	Front RH tire :	kPa		
		Front LH tire :	kPa		
		Rear RH tire :	kPa		
		Rear LH tire :	kPa		
	e) Degree of wear	Front RH tire :			
		Front LH tire :			
		Rear RH tire :			
		Rear LH tire :			
	f) Genuine parts are used. : □Yes / □No				
	g) Chain is passed around tires. : □Yes / □No				
	h) T tire is used. : □Yes / □No				
	i) Condition of suspension alignment :				
	j) Loading state :				
	k) Repair parts are used. : □Yes / □No				
	What :				
	I) Others :				

C: INSPECTION MODE

Reproduce the condition under which the problem has occurred as much as possible.

Drive the vehicle at a speed more than 40 km/h (25 MPH) for at least one minute.



D: TROUBLE CODES

When on-board diagnosis of the ABS control module detects a problem, the information (up to a maximum of three) will be stored in the EEP ROM as a trouble code. When there are more than three, the most recent three will be stored. (Stored codes will stay in memory until they are cleared.)

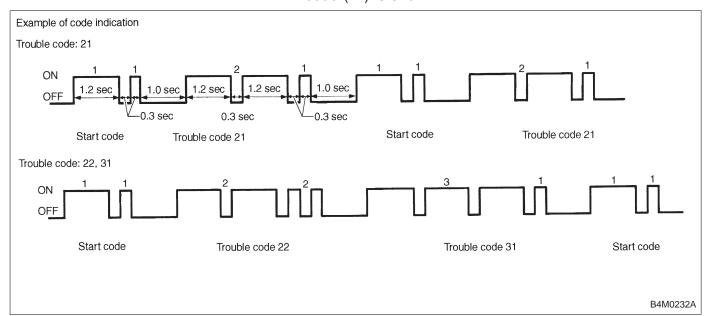
1. CALLING UP A TROUBLE CODE

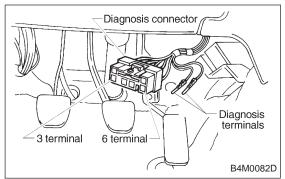
- 1) Take out diagnosis connector from side of driver's seat heater unit.
- 2) Turn ignition switch OFF.
- 3) Connect diagnosis connector terminal 6 to diagnosis terminal.
- 4) Turn ignition switch ON.
- 5) ABS warning light is set in the diagnostic mode and blinks to identify trouble code.
- 6) After the start code (11) is shown, the trouble codes will be shown in order of the last information first.

These repeat for a maximum of 5 minutes.

NOTE:

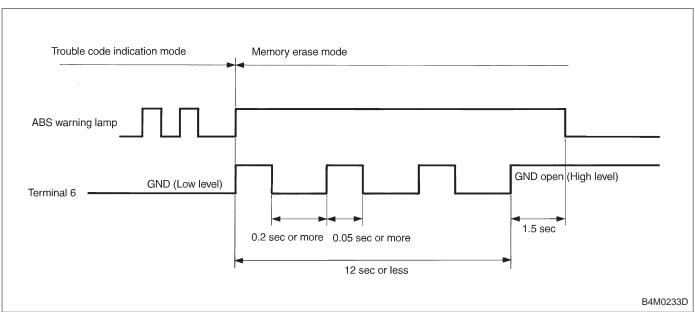
When there are no trouble codes in memory, only the start code (11) is shown.





2. CLEARING MEMORY

- 1) After calling up a trouble code, disconnect diagnosis connector terminal 6 from diagnosis terminal.
- 2) Repeat 3 times within approx. 12 seconds; connecting and disconnecting terminal 6 and diagnosis terminal for at least 0.05 seconds each time.



NOTE:

After diagnostics is completed, make sure to clear memory. Make sure only start code (11) is shown after memory is cleared.