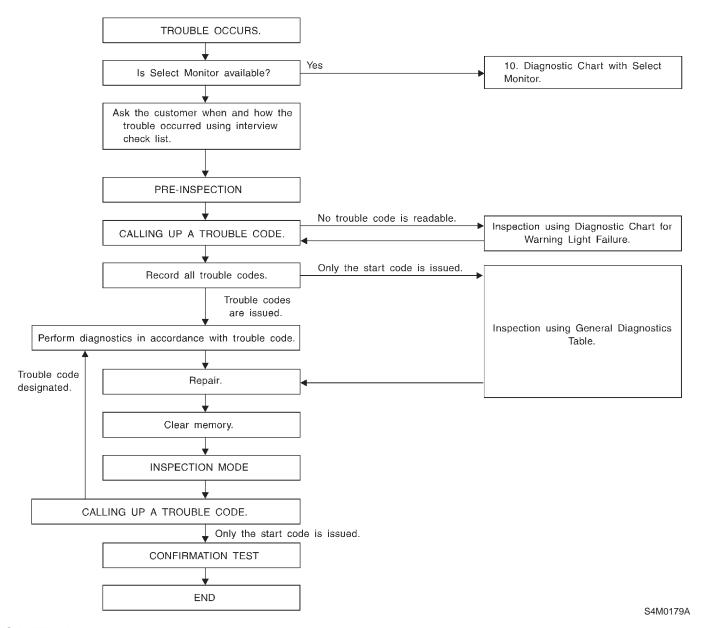
6. Diagnostics Chart for On-board Diagnosis System

A: BASIC DIAGNOSTICS PROCEDURE



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 THE ABS WARNING LIGHT

ABS warning light	☐ Always			
comes on.	□ 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 condi-	□ Performs no work.			
tion	☐ Operates only when abruptly applying brakes.	Vehicle speed :	km/h	
			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 wit	h a clunk	
		☐ Press and released		
		☐ Others :		

Behavior of vehicle	a) Directional stability cannot be obtained or steering arm refuses to work when applying brakes : \Box Yes / \Box 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 : □ Yes / □ 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 : \square Yes / \square No			
	What kind :			
3. CONDITIONS UNDE	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 :		

4-4 [T6B0] DIAGNOSTICS AIRBAG
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. : \square Yes / \square 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.

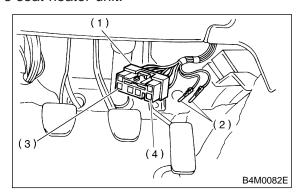
Drive the vehicle at a speed more than 40 km/h (25 MPH) for at least one minute.

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

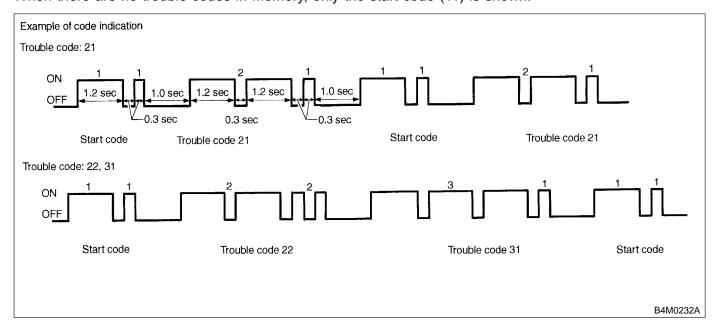
1) Take out diagnosis connector from side of driver's seat heater unit.



- (1) Diagnosis connector
- (2) Diagnosis terminals
- (3) 3 terminal
- (4) 6 terminal
- 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 3 minutes.

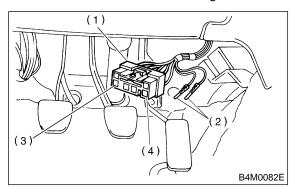
NOTE:

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

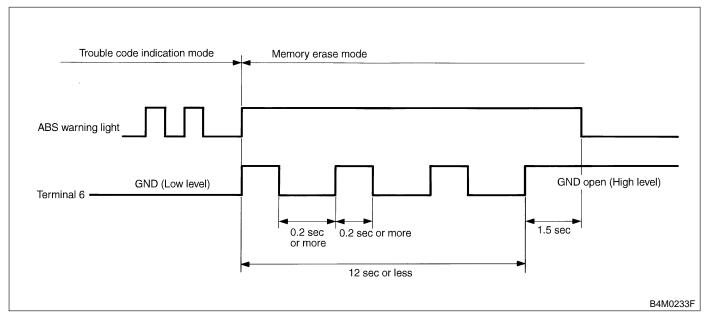


2. CLEARING MEMORY

1) After calling up a trouble code, disconnect diagnosis connector terminal 6 from diagnosis terminal.



- (1) Diagnosis connector
- (2) Diagnosis terminals
- (3) 3 terminal
- (4) 6 terminal
- 2) Repeat 3 times within approx. 12 seconds; connecting and disconnecting terminal 6 and diagnosis terminal for at least 0.2 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.

MEMO: