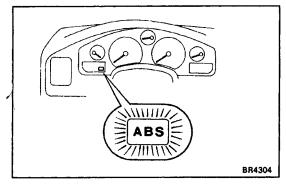
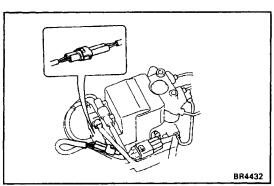
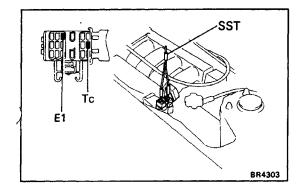


0.25s | -0.25s Light ON Normal Code OFF | -0.25s Normal Code 0.5s 0.5s | Trouble Code 0.5s (In Case Code 23) Light ON 4.0s | BR1309







DIAGNOSIS SYSTEM DESCRIPTION

BB076 -01

If a malfunction occurs, the system will identify the problem and the ECU will stores the codes for the trouble items.

At the same time, the system informs the driver of a malfunction via the "ABS" warning light in the combination meter.

To identify the trouble by the number of blinks (diagnostic code) of the warning light turn on the ignition switch, disconnect the service connector, and use SST to connect Tc and E1 of the data link connector. In the event of two codes, that having the smallest number (code) will be identified first.

HINT: The warning light does not show the diagnostic codes while the vehicle is running.

DIAGNOSIS SYSTEM INSPECTION

BR077-01

1. INSPECT BATTERY VOLTAGE

Inspect that the battery voltage is about 12 V.

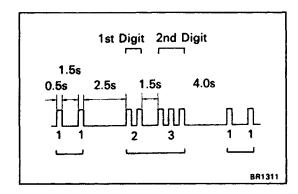
- 2. CHECK THAT WARNING LIGHT TURNS ON
 - (a) Turn the ignition switch on.
 - (b) Check that the "ABS" warning light turns on for 3 seconds.

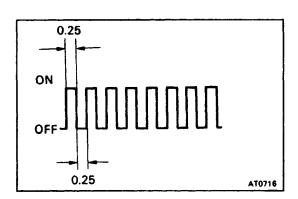
If not, inspect and repair or replace the fuse, bulb and wire harness.

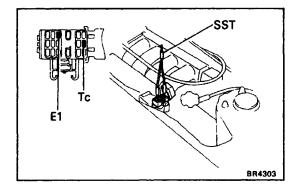
- 3. REAR DIAGNOSTIC CODE
 - (a) Turn the ignition switch on.
 - (b) Disconnect the service connector.

(c) Using SST, connect terminals Tc and E1 of the data link connector.

SST 09843-18020







(d) In event of a malfunction, 4 seconds later the warning light will begin to blink. Read the number of blinks.(See DIAGNOSTIC CODE on page BR-55)

HINT: The first number of blinks will equal the first digit of a two digit diagnostic code. After a 1.5 second pause, the 2nd number of blinks will equal the 2nd number of a two digit code. If there are two or more codes, there will be a 2.5 second pause between each, and indication will begin after 4.0 second pause from the smaller value and continue in order to larger.

- (e) If the system is operating normally (no malfunction), the warning light will blink once every 0.5 seconds.
- (f) Repair the system.
- (g) After the malfunctioning components has been repaired, clear the diagnoistic codes stored in the ECU. (See page BR-55)

HINT: If you disconnect the battery cable while repairing, all diagnostic codes in the ECU will erased.

(h) Remove the SST from terminals Te and E1 of the data link connector.

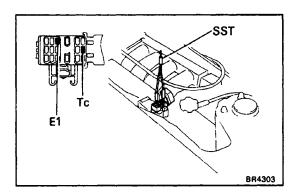
SST 09843-18020

- (i) Connector the service connector.
- (j) Turn the ignition switch on, and check that the "ABS" warning light goes off after the warning light goes on for 3 seconds.

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8R078-01

ode No.	Light Pattern	Diagnosis	Trouble Part
11	ON OFF	Open circuit in solenoid relay circuit	Actuator inside wire harness Control relay Wire harness and connector of solenoid relay circuit
12		Short circuit in solenoid relay circuit	
13	几八八八	Open circuit in pump motor relay circuit	Actuator inside wire harness Control relay Wire harness and connector of pump motor relay circuit
14		Short circuit in pump motor relay circuit	
21	\lambda_\lambd	Open or short circuit in 3 position solenoid of front right wheel	Actuator solenoid Wire harness and connector of actuator solenoid circuit
22		Open or short circuit in 3 position solenoid of front left wheel	
23		Open or short circuit in 3 position solenoid of rear right wheel	
24		Open or short circuit 3 position solenoid of rear left wheel	
31		Front right wheel speed sensor signal malfunction	
32	M.M.	Front left wheel speed sensor signal malfunction	
33		Rear right wheel speed sensor signal malfunction	Speed sensor Sensor rotor
34	ML MML	Rear left wheel speed sensor signal malfunction	Wire harness and connector of speed sensor
35		Open circuit in front left or rear right wheel speed sensor	
36		Open circuit in front right or rear left wheel speed sensor	
37		Wrong both rear axle hubs	Rear sensor rotors
41		Abnormal battery voltage (less than 9.5 V/more than 16.2 V)	BatteryVoltage regulator
51		Pump motor of actuator locked or open circuit in pump motor circuit in actuator	Pump motor, relay and battery Wire harness, connector and ground bolt or actuator pump motor circuit
Always on		Malfunction in ECU	• ECU



DIAGNOSTIC CODES CLEARING CLEAR DIAGNOSTIC CODES

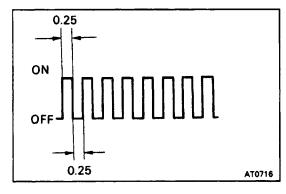
- (a) Turn the ignition switch on.
- (b) Using SST, connect terminals Tc and E1 of the data link connector.

SST 09843-18020

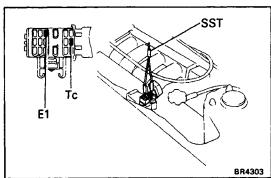
HINT: Keep the vehicle stopped vehicle speed 0 km/h (0 mph).

BR1804

(c) Clear the diagnostic codes stored in ECU by depressing the brake pedal 8 or more times within 3 seconds.

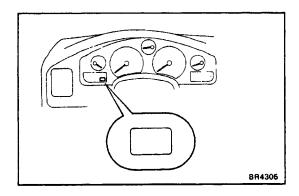


(d) Check that the warning light shows the normal code.



(e) Remove the SST from terminals Te and E1 of the data link connector.

SST 09843–18020



(f) Check that the warning light goes off.