

Deceleration Sensor and Speed Sensor Diagnosis System

PRECAUTION

- While checking the deceleration sensor and speed sensor diagnosis system, the Rear-Wheel Anti-Lock Brake System does not work and brake system works as normal brake system.

INSPECTION OF DIAGNOSIS SYSTEM

1. INSPECT BATTERY POSITIVE VOLTAGE

Inspect that the battery positive voltage is about 12 V.

2. CHECK THAT WARNING LIGHT TURNS ON

- Turn the ignition switch to ON.
- Check that the "REAR ANTI-LOCK" warning light turns on for about 3 seconds.
If not, inspect and repair or replace the fuse, bulb and wire harness.
- Check that the "REAR ANTI-LOCK" warning light turns off.
- Turn the ignition switch to OFF.

3. PERFORM FOLLOWING STEPS

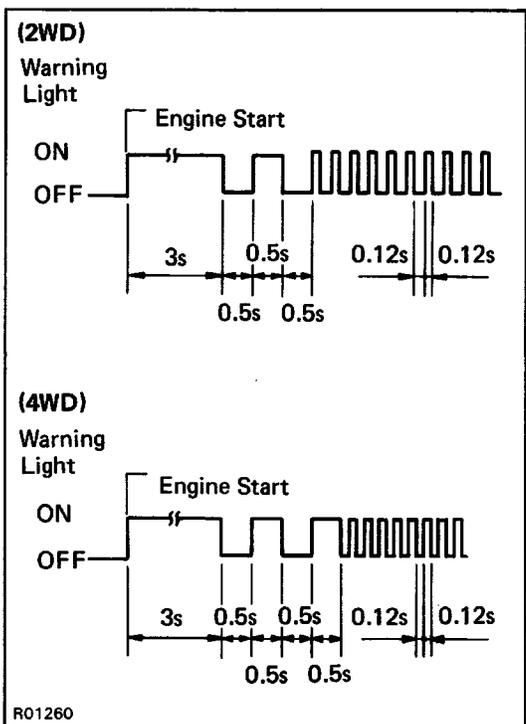
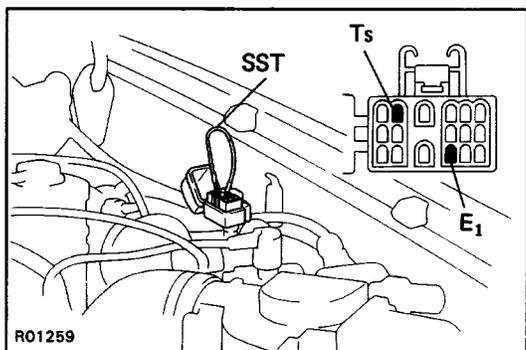
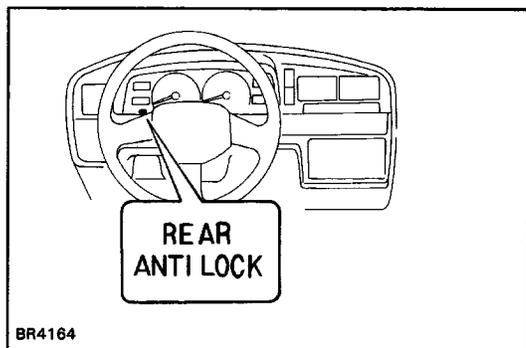
- Using SST, connect the terminal Ts to E1 of the data link connector 1.
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- Start the engine.

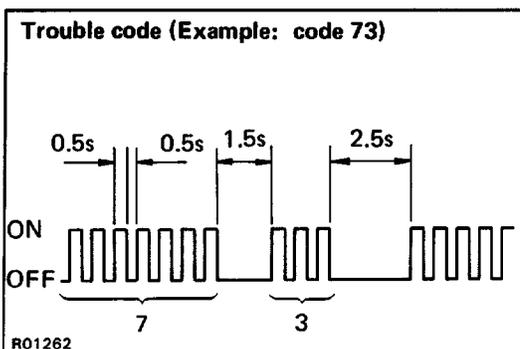
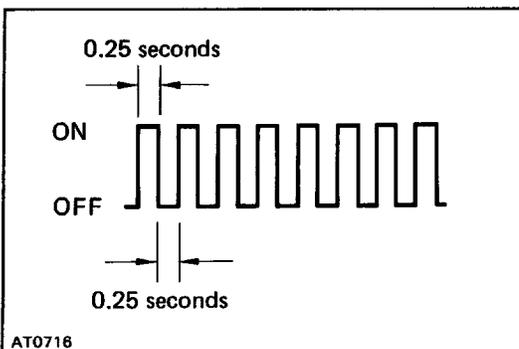
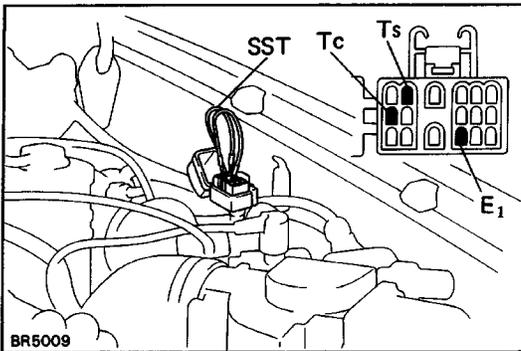
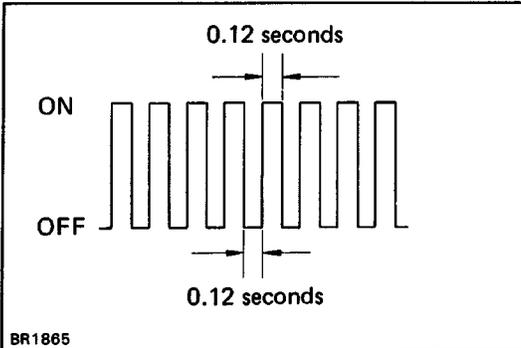
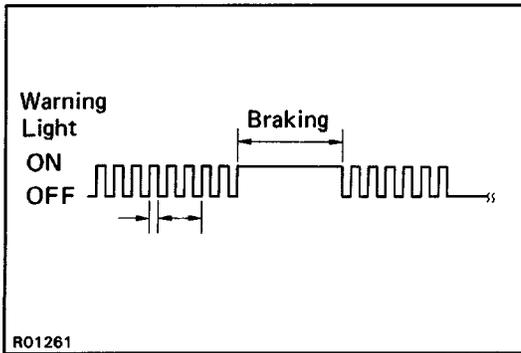
- (2 WD model)

Check that the warning light blinks about 4 times every 1 second after blinking 1 time in 1.5 seconds as shown.

- (4 WD model)

Check that the warning light blinks about 4 times every 1 second after blinking 2 times in 2.0 seconds as shown.





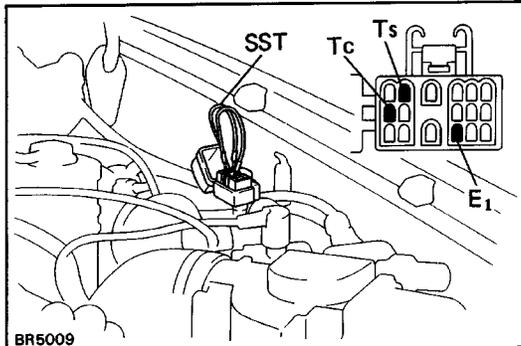
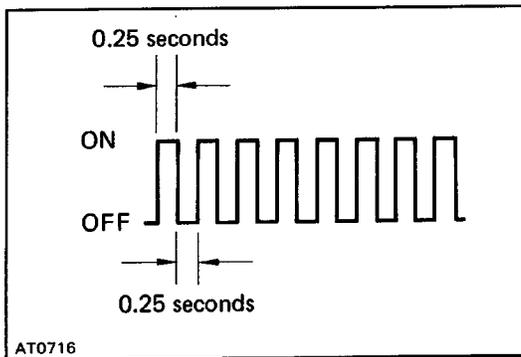
- (e) Drive the vehicle straight ahead at about 20 km/h (12.4 mph) or more, depress the brake pedal strongly.
- (f) Check that the warning light turns on while braking.

- (g) Drive the vehicle straight ahead at about 50 km/h (31 mph) or more, and stop the vehicle.
- (h) Check that the warning light blinks about 4 times every 1 second as shown.

- (i) Using SST, connect terminals Tc and E 1 of the data link connector 1.
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- (j) Check that the warning light shows the normal code.

- (k) In event of a malfunction, 2.5 seconds later the warning light will begin to blink. Read the number of blinks.
(See DIAGNOSTIC TROUBLE CODE on page BR-86)
HINT: The first number of blinks will equal the first digit of a two digit diagnostic trouble code. After a 1.5 seconds 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 seconds pause between each, and indication will begin after 2.5 seconds pause from the smaller value and continue in order to larger.



- (l) If the system is operating normally (no malfunction), the warning light will blink once every 0.5 seconds.
- (m) Repair the system.
- (n) After the malfunctioning components have been repaired, clear the diagnostic trouble codes stored in the ECU.
(See page BR-76)
HINT: If you disconnect the battery cable while repairing, all diagnostic trouble codes in the ECU will be erased.
- (o) Remove the SST from terminals Ts, Tc and E 1 of the data link connector 1.
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DIAGNOSTIC TROUBLE CODE

Code No.	Light Pattern	Diagnosis	MAIfunctioing Part
	ON OFF	Speed sensor and sensor rotor are normal	
73		Low output voltage of speed sensor signal	Speed sensor Sensor rotor Differential ring gear
77		Abnormal change of output voltage of speed sensor signal	Sensor rotor Differential ring gear
79		Sticking of deceleration sensor pendulum	Deceleration sensor