

DECELERATION SENSOR AND SPEED SENSOR DIAGNOSIS SYSTEM

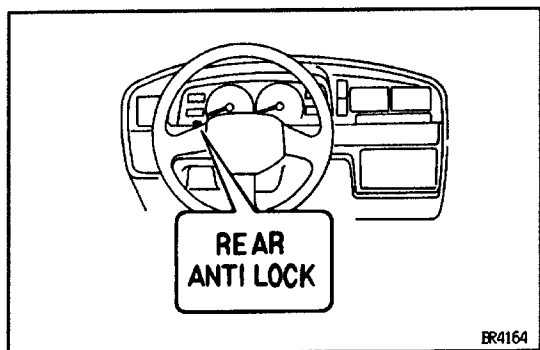
DIAGNOSIS SYSTEM INSPECTION

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 a normal brake system.

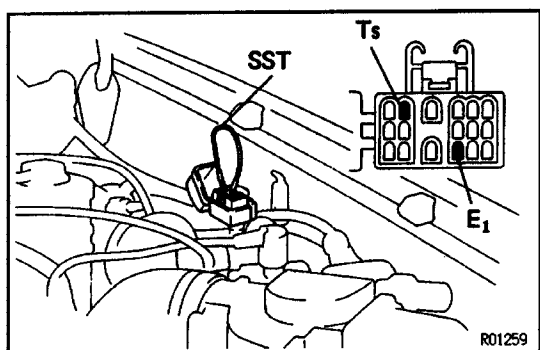
1. INSPECT BATTERY POSITIVE VOLTAGE

Inspect that the battery positive voltage is 10 – 14 V.



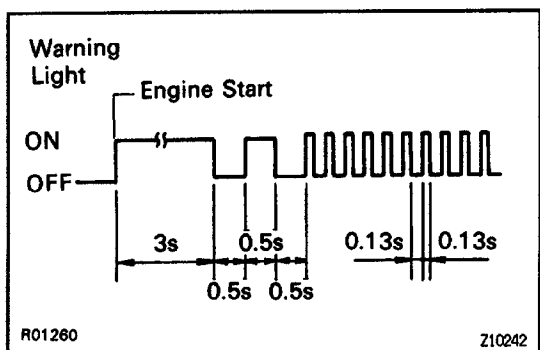
2. CHECK THAT WARNING LIGHT TURNS ON

- Turn the ignition switch 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 OFF.



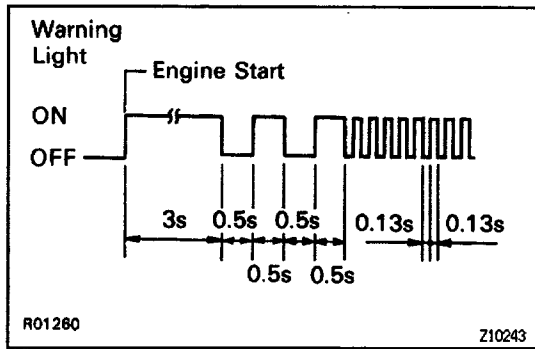
3. DO THE FOLLOWING STEPS

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



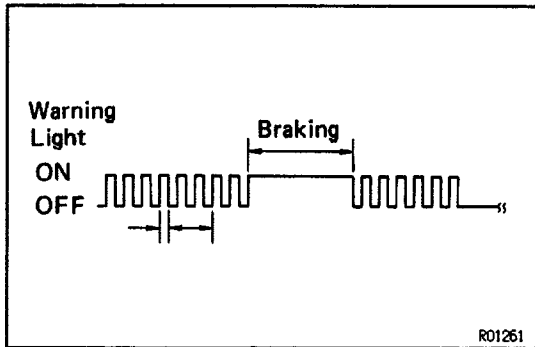
- 2 WD:

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



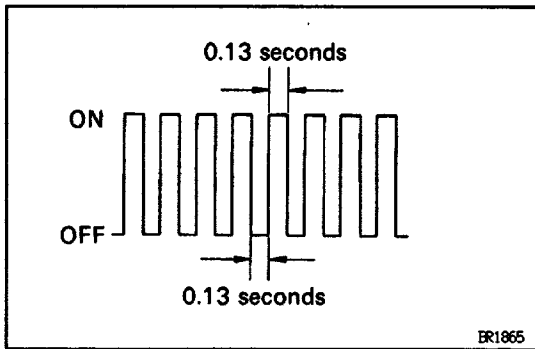
(d) 4WD:

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



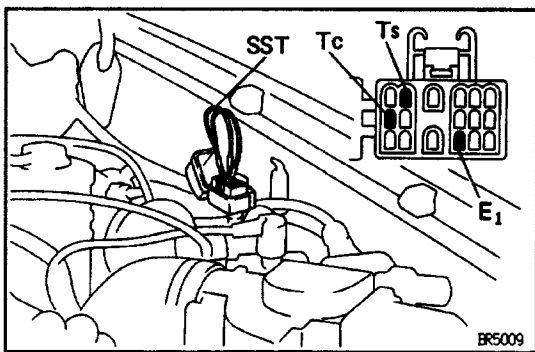
(e) Drive the vehicle straight ahead at about 20 km/h (12.4 mph) or more, depress the brake pedal strongly.

(f) Check that the warning light turns on while braking.



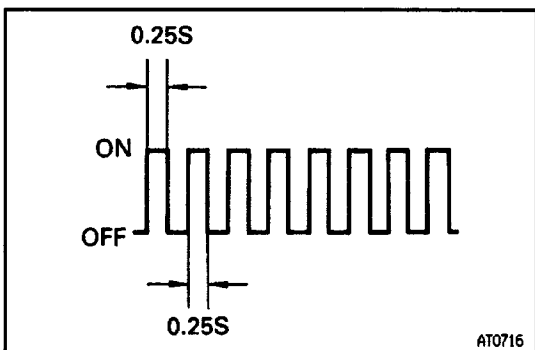
(g) Drive the vehicle straight ahead at about 50/km (31 mph) or more, and stop the vehicle.

(h) Check that the warning light blinks about 4 times every 1 second, as shown.

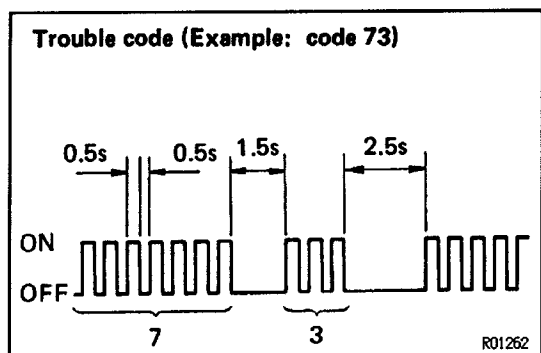


Using SST, connect terminals Tc and E1 of the data link connector 1.

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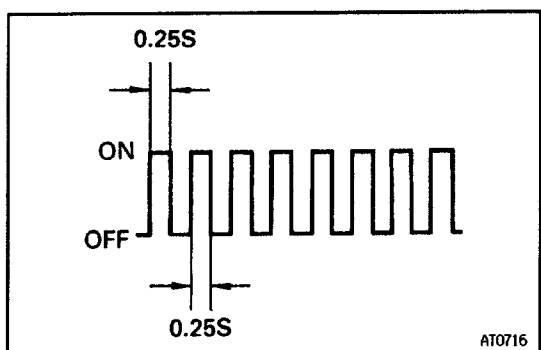
(j) Check that the warning light shows the normal code.



(k) In event of a malfunction, 2.5 seconds later the warning light will begin to blink. Read the number of blinks.

(See page [BR-56](#))

HINT: The 1st number of blinks will equal the 1st digit of a 2 digit diagnostic trouble code. After a 1.5 seconds pause, the 2nd number of blinks will equal the 2nd number of a 2 digit code. If there are 2 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 the larger value.



(l) If the system is operating normally (no malfunction), the warning light will blink once every 0.5 seconds.

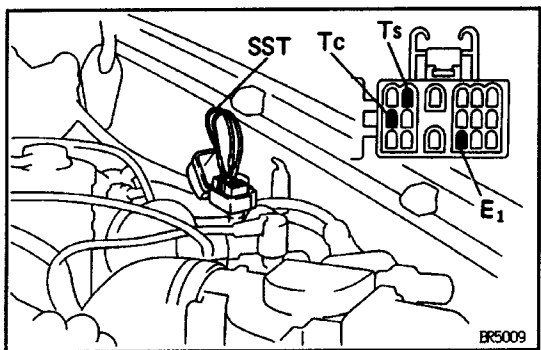
(m) Repair the system.

(n) After the malfunctioning components has been repaired, clear the diagnostic trouble codes stored in the ECU.





(See page [BR-46](#))

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

(o) Remove the SST from terminals Ts, Tc and E1 of the data link connector 1.
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DIAGNOSTIC TROUBLE CODE

Code No.	Light System	Diagnosis	Malfunctioning 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