

SPEED SENSOR AND DECELERATION SENSOR DIAGNOSIS SYSTEM DIAGNOSIS SYSTEM INSPECTION

PRECAUTION

While checking the speed sensor diagnosis system, ABS dose not operate and brake system operates as normal brake system.

1. INSPECT BATTERY POSITIVE VOLTAGE

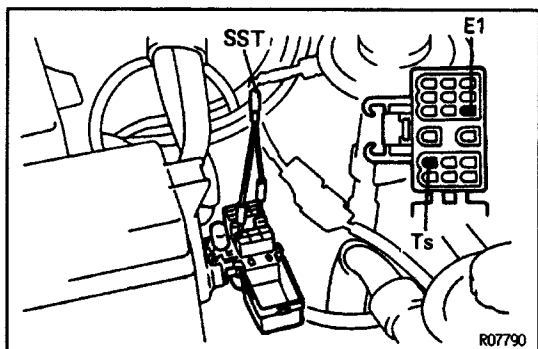
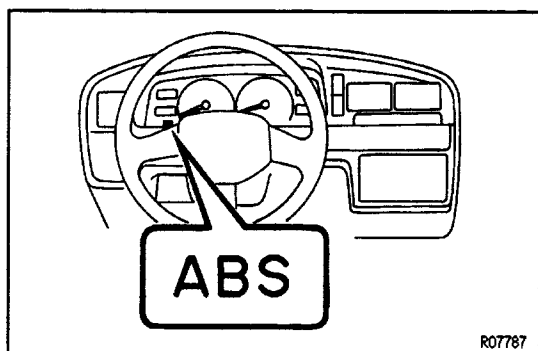
Inspect that the battery positive voltage is 10 – 14 V.

2. CHECK THAT WARNING LIGHT TURNS ON

- Turn the ignition switch ON.
- Check that the "ABS" warning light turns on for 3 seconds.

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

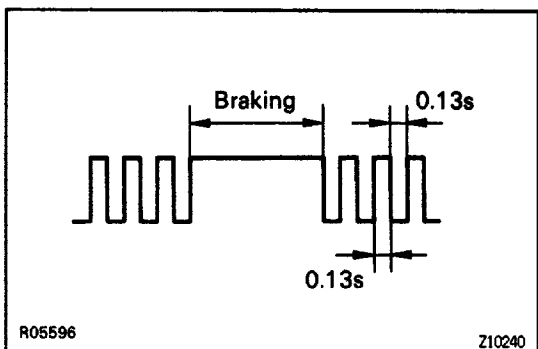
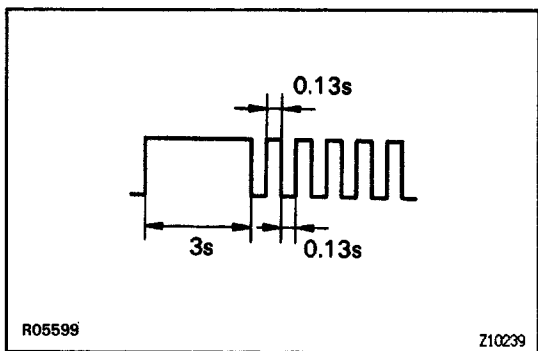
- Check that the "ABS" warning light turns off.
- Turn the ignition switch OFF.



3. DO THE FOLLOWING STEPS

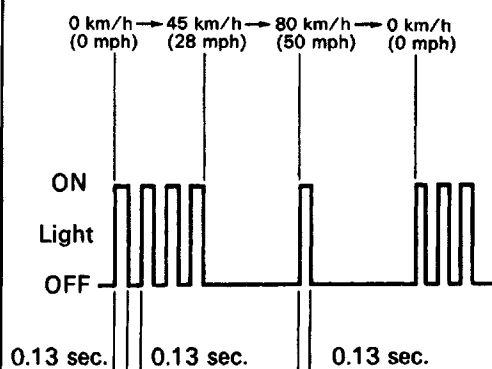
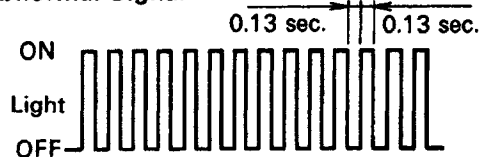
- Using SST, connect terminals Ts and E1 of the data link connector 1.
SST 09843-18020
- Start the engine.

- Check that the warning light blinks about 4 times every 1 second.



4. INSPECT DECELERATION SENSOR OPERATION

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

Normal Signal**Abnormal Signal**

R00444

5. INSPECT SPEED SENSOR SIGNAL CHANGE

(a) Drive the vehicle faster than 45 km/h (28 mph) for several seconds.

(b) Check the warning light signal.

If the warning light signal is abnormal, do steps 6 and 7.

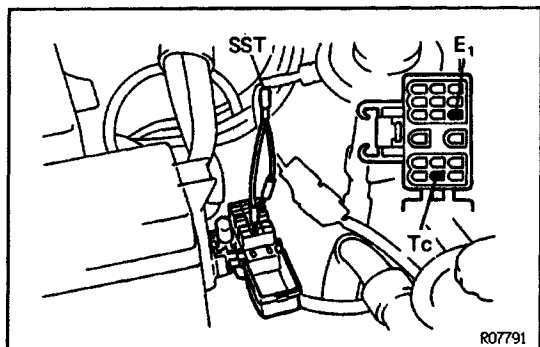
HINT:

- If the deceleration sensor operation in step 4 does not occur, an abnormal signal is output.
- The high-speed check is possible at 80 km/h (50 mph) or higher.

6. READ DIAGNOSTIC TROUBLE CODE

(a) Stop the vehicle, and warning light will begin to blink.

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



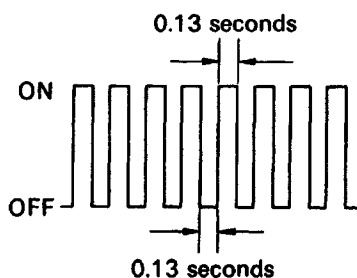
R07791

(c) Read the number of blinks of the ABS warning light.

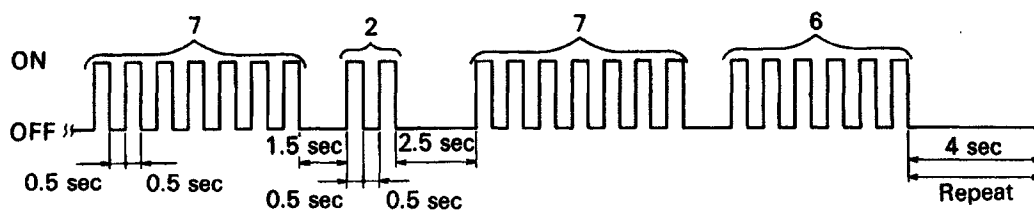
(See page [BR-89](#))

HINT: If normal, the warning light blinks about 4 times every 1 second.

If 2 or more malfunctions are indicated at the same time, the smallest numbered code will be displayed 1 st.



BR1855

Malfunction Code (Example Code 72, 76)

BR3893

Z10244

7. REPAIR MALFUNCTIONING PARTS

Repair or replace the malfunctioning parts.







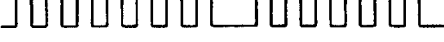

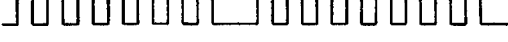
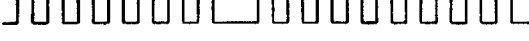
HINT: When repairing or replacing parts, turn the ignition switch OFF.

8. REMOVE SST

Remove the SST from terminals Tc, Ts and E1 of the data link connector 1.

SST 09843-18020

DIAGNOSTIC TROUBLE CODE

Code No.	Light Pattern	Diagnosis	Malfunctioning Part
	ON OFF 	All speed sensors and sensor rotors are normal	
71		Low voltage of right front speed sensor signal	<ul style="list-style-type: none"> • Right front speed sensor • Sensor installation
72		Low voltage of left front speed sensor signal	<ul style="list-style-type: none"> • Left front speed sensor • Sensor installation
73		Low voltage of right rear speed sensor signal	<ul style="list-style-type: none"> • Right rear speed sensor • Sensor installation
74		Low voltage of left rear speed sensor signal	<ul style="list-style-type: none"> • Left rear speed sensor • Sensor installation
75		Abnormal change of right front speed sensor signal	<ul style="list-style-type: none"> • Right front sensor rotor
76		Abnormal change of left front speed sensor signal	<ul style="list-style-type: none"> • Left front sensor rotor
77		Abnormal change of right rear speed sensor signal	<ul style="list-style-type: none"> • Right rear sensor rotor
78		Abnormal change of left rear speed sensor signal	<ul style="list-style-type: none"> • Left rear sensor rotor
79		Deceleration sensor is faulty	<ul style="list-style-type: none"> • Deceleration sensor • Sensor installation