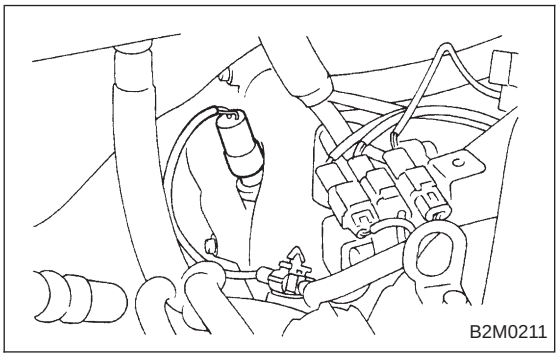
14. Vehicle Speed Sensor 2

A: GENERAL PRECAUTIONS

1) Be careful not to drop or bump sensor as this may break built-in magnet.
2) Drive key is designed to separate from vehicle speed sensor 2. Be careful not to lose it or forget to install.
3) Vehicle speed sensor 2 is installed in part (which contains bearings, etc., finished to a high degree of accuracy). Do not allow foreign matter (filings, sand, etc.) to get into it.
4) When checking output of vehicle speed sensor 2 as a single unit, ensure test leads are connected to their correct terminals. Failure to do this may damage internal IC.
5) Discard vehicle speed sensor 2 after removal; replace with new one.

B: REMOVAL

CAUTION:
- **Be careful when removing vehicle speed sensor 2 immediately after driving vehicle for a while, as temperature around it is high.**
- **Before removing vehicle speed sensor 2, clean dirt, etc. from surrounding areas. Take care not to allow foreign matter to get into mounting hole.**



1) Remove collector cover.
2) Disconnect vehicle speed sensor 2 connector.
3) Turn and remove vehicle speed sensor 2.
4) Remove key and packing.

C: INSTALLATION

CAUTION:

- **Ensure sensor mounting hole is clean and free of foreign matter.**
- **Apply grease to tip end of key to prevent key from falling off sensor.**
- **Align tip end of key with key groove on end of speedometer shaft during installation.**

1) Hand tighten vehicle speed sensor 2, then tighten it using suitable tool.
Tightening torque required for sensor to reach bottom of transmission is as follows:

Tightening torque:
0.39 — 0.88 N·m (4.0 — 9.0 kg-cm, 3.5 — 7.8 in-lb)

CAUTION:

- **When torque must be applied that exceeds 0.88 N·m (9.0 kg-cm, 7.8 in-lb), the key and key groove on end of speedometer may not be aligned properly. Remove the key, align it correctly and reassemble.**
- **Sensor threads are secured by Locktite. The reassembly must be completed within 5 minutes before Locktite dries.**

2) Tighten vehicle speed sensor 2 further to specified torque.

Tightening torque:
5.9±1.5 N·m (60±15 kg-cm, 52±13 in-lb)