ABS & TRACTION ACTUATOR ASSY

3218U–01

ON–VEHICLE INSPECTION

1. BRAKE ACTUATOR INSPECTION

(a) Prepare for the inspection.

(1) Connect the hand–held tester (with 24 V VIM) to the DLC3 and start the engine.

NOTICE:

Be sure to use the 24 V VIM, because the hand–held tester will be damaged if you do not use the 24 V VIM.

(2) Follow the instructions on the tester display and enter ACTIVE TEST mode.

(b) Inspect the actuator motor operation.

NOTICE:

Do not leave the motor relay running for more than 5 seconds. Make sure to wait for 20 seconds between each relay operation.

(1) Turn ON the motor relay. Check that the actuator motor emits noise.

(2) Turn OFF the motor relay.

(3) Depress and hold the brake pedal for 15 seconds. Without releasing the pedal, increase the pressure on the pedal. Check that the pedal cannot be depressed any further.

(4) While still depressing and holding the brake pedal, turn ON the motor relay. Check that the pedal does not vibrate.

(5) Turn OFF the motor relay and release the pedal.

(c) Inspect the solenoid valve operation for the front–right wheel.

NOTICE:

- **Do not leave the motor relay or solenoid valves running for more than 5 seconds. Make sure to wait for 20 seconds between each relay or solenoid valve operation.**
- **Each solenoid valve's ACTIVE TEST lasts approximately 2 seconds and ends (turns off) automatically.**
- **When only operating the pressure reducing valve, do not depress the brake pedal.**
- **Do not turn on any solenoid valves that do not appear in the instructions.**

(1) Depress and hold the brake pedal.

(2) Turn ON the SFRH and SFRR solenoid valves simultaneously. Without releasing the pedal, increase pressure on the pedal. Check that the pedal cannot be depressed any further.

(3) Continue to depress and hold the brake pedal. Then, turn OFF the SFRH and SFRR solenoid valves simultaneously. Increase pressure on the pedal. Check that the pedal can be depressed further.

(4) Turn on the motor relay and check that the pedal returns to its reset state.

(5) Check the solenoid valves of the other wheels in the same way (step c (1) to (4)).

HINT:

The solenoid valves for the other wheel are: SFLH and SFLR for the front–left wheel, and SRH and SRR for the rear wheels.