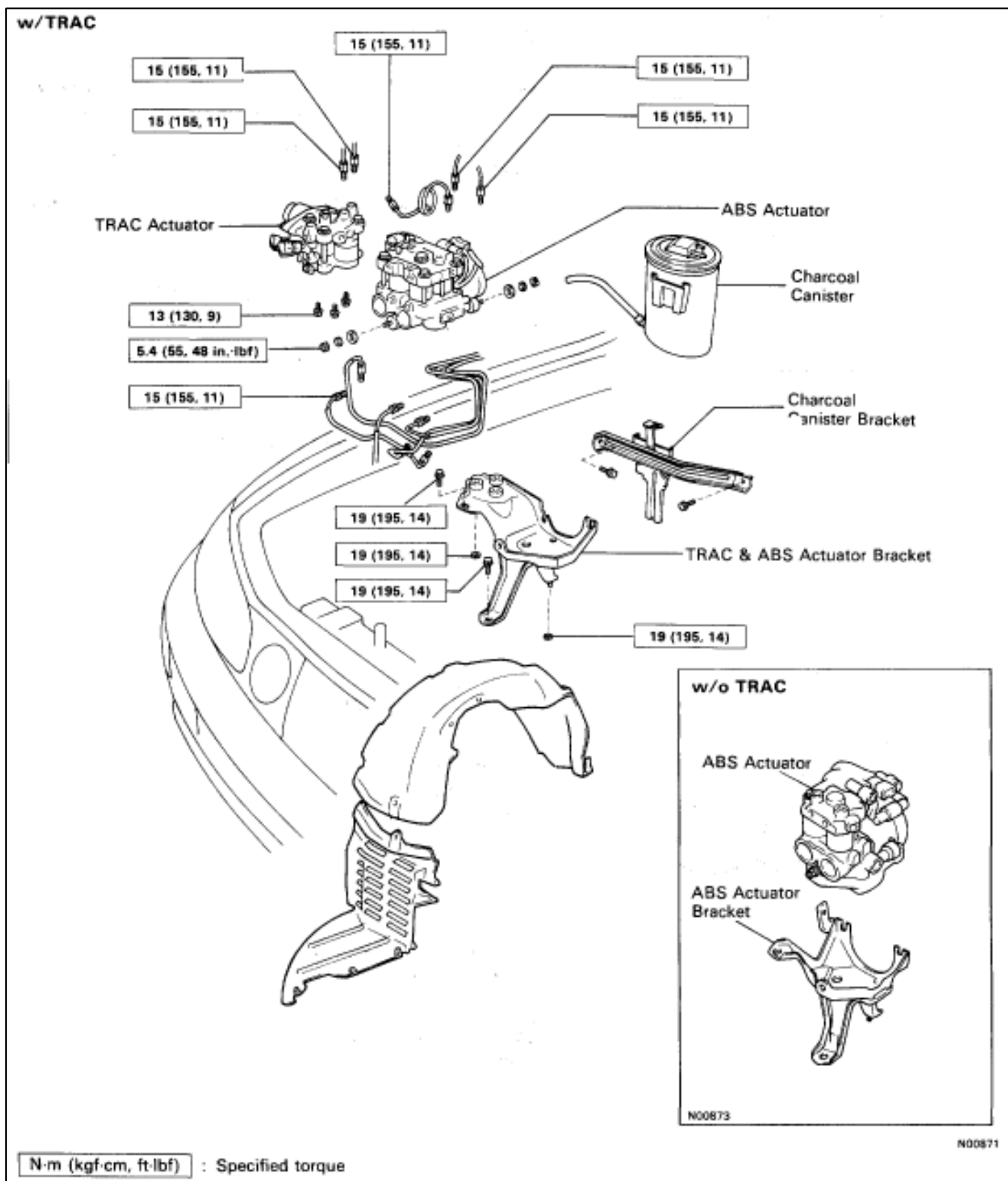
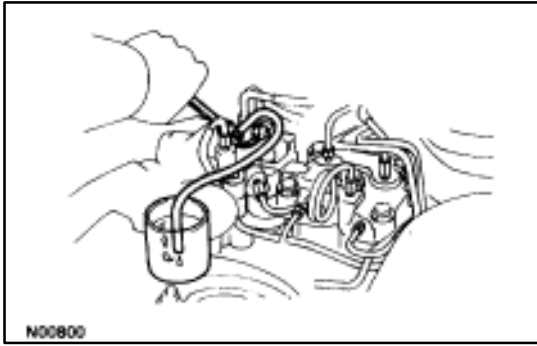


ABS ACTUATOR REMOVAL AND INSTALLATION OF ABS ACTUATOR

Remove and install the parts as shown.





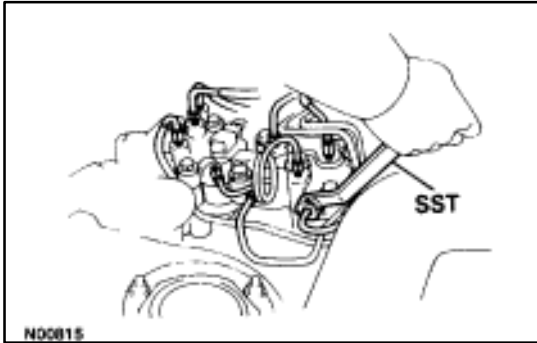
(MAIN POINTS OF REMOVAL AND INSTALLATION)

1. (w/TRAC)

DRAIN OUT HIGH PRESSURE FLUID

- (a) Connect a vinyl tube to the TRAC actuator bleeder plug, then loosen the bleeder plug.
- (b) When the fluid has flowed out, tighten the bleeder plug.

CAUTION: Since the fluid is under high pressure, it could spray out with great force, so be careful.



2. **DISCONNECT AND CONNECT BRAKE TUBE**

(w/TRAC)

Using SST, disconnect and connect the brake tube from/ to the TRAC actuator and ABS actuator.

SST 09751-36011

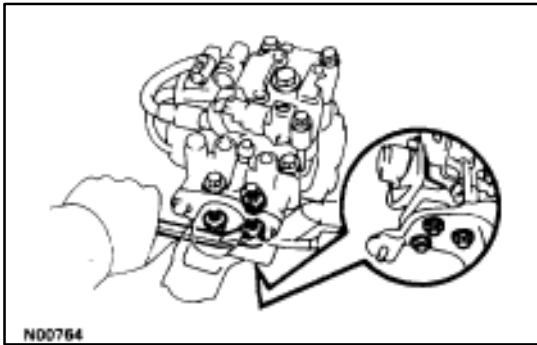
Torque: 15 N·m (155 kgf·cm, 11 ft·lbf)

(w/o TRAC)

Using SST, disconnect and connect the brake tube from/ to the ABS actuator.

SST 09751-36011

Torque: 15 N·m (155 kgf·cm, 11 ft·lbf)



3. (w/TRAC)

REMOVE AND INSTALL TRAC ACTUATOR

Loosen and tighten the three bolts.

Torque: 13 N·m (130 kgf·cm, 9 ft·lbf)

HINT: When loosening or tightening TRAC actuator installation bolts, lift the actuator bracket up slightly from the body.

4. **BLEED BRAKE SYSTEM**

(See page [BR-6](#))

5. (w/TRAC)

BLEED TRAC SYSTEM

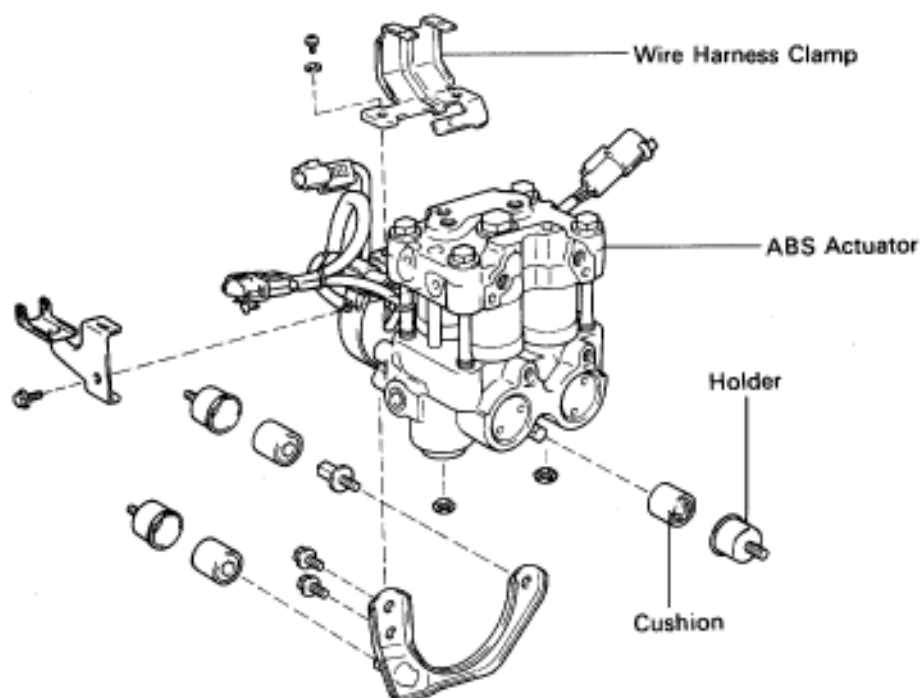
(See page [BR-8](#))

DISASSEMBLY AND ASSEMBLY OF ABS ACTUATOR

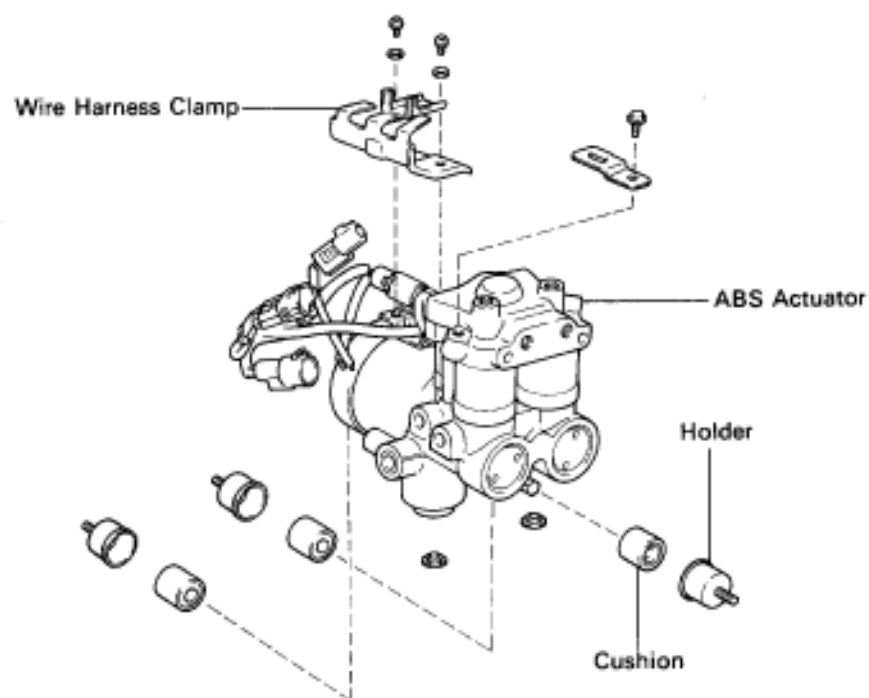
Remove and install the parts as shown.

COMPONENTS

w/TRAC

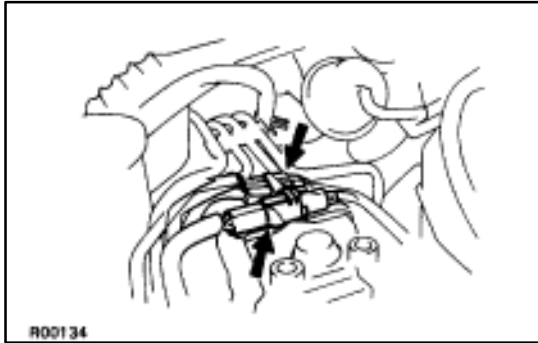


w/o TRAC



INSPECTION OF ABS ACTUATOR OPERATION

HINT: Using the ABS actuator checker (SST), check the operation of the actuator. If the actuator does not operate, check the operation of the solenoid and pump motor relay of sub-wire harness G according to instructions on pages [BR-89](#) and [BR-93](#). If the solenoid and/or pump motor relay are abnormal, replace the relay and inspect the actuator operation again.



(w/o TRAC)

1. INSPECT BATTERY VOLTAGE

Battery voltage: 10–14.5 V

2. DISCONNECT CONNECTORS FROM ACTUATOR

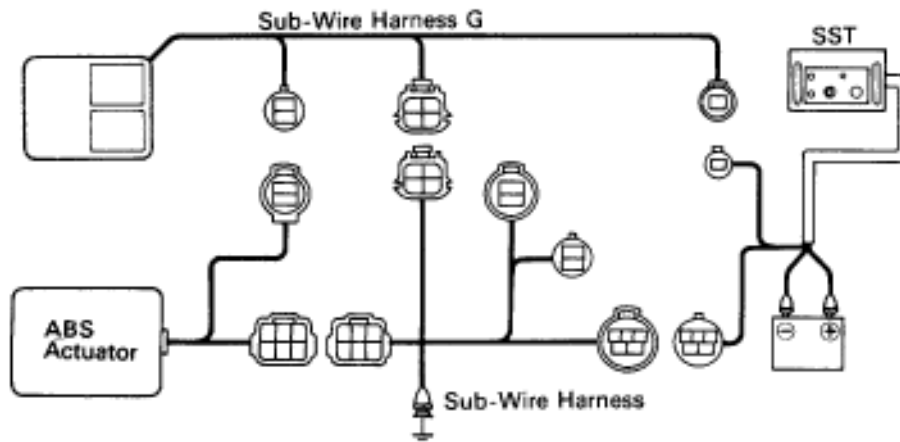
Disconnect the two connectors from the actuator as shown.

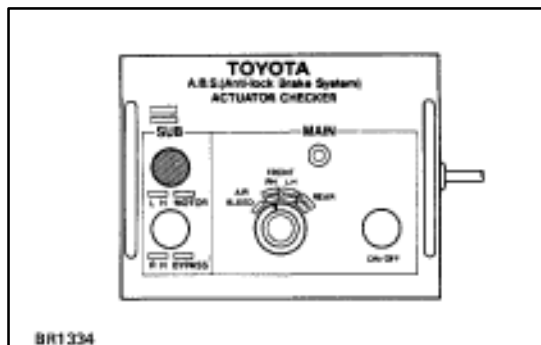
3. CONNECT ACTUATOR CHECKER (SST) TO ACTUATOR

- (a) Connect the actuator checker (SST) to the actuator side wire harnesses via the sub-wire harnesses (SST) as shown.

SST 09990-00150 and 09990-00250

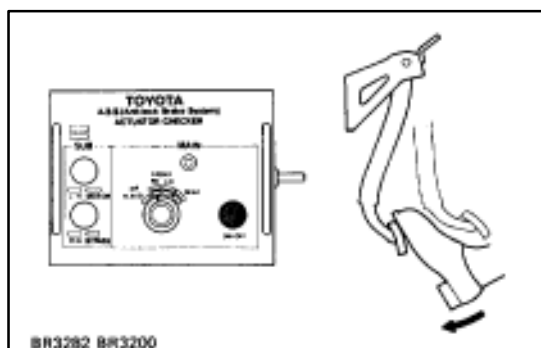
- (b) Connect the red cable of the checker to the battery positive (+) terminal and the black cable to the negative (–) terminal. Connect the black cable of the sub-wire harness to the battery negative (–) terminal or body ground.





4. INSPECT BRAKE ACTUATOR OPERATION

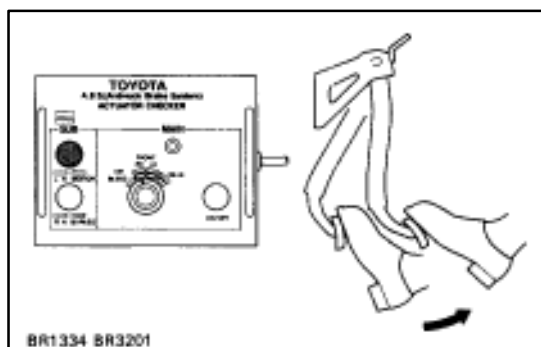
- (a) Start the engine, and run it at idle speed.
- (b) Turn the MAIN selector switch of the actuator checker to the "FRONT RH" position.
- (c) Push and hold in the SUB MOTOR switch for a few seconds.
- (d) Depress the brake pedal and hold it until step (g) is completed.



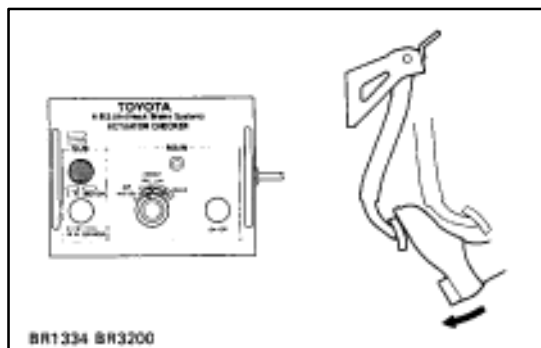
- (e) Push the MAIN push switch and check that the brake pedal can not be depressed.

NOTICE: Do not keep the MAIN push switch pushing more than 10 seconds.

- (f) Release the switch, and check that the pedal can be depressed.



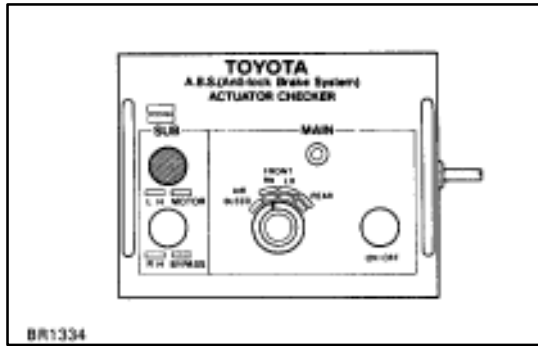
- (g) Push and hold in the SUB MOTOR switch for a few seconds, and check that the pedal returns.
- (h) Release the brake pedal.



- (i) Push and hold in the SUB MOTOR switch for a few seconds.
- (j) Depress the brake pedal and hold it for about 15 seconds. As you hold the pedal down, push the SUB MOTOR switch for a few seconds. Check that the brake pedal does not pulsate.

5. INSPECT OTHER WHEELS

- (a) Turn the MAIN selector switch to the "FRONT LH" position.
- (b) Repeat (c) to (j) of step 4, checking the actuator operation in the same way.
- (c) Also, inspect the "REAR" positions following the same procedure.

**6. PUSH SUB MOTOR SWITCH**

Push and hold in the SUB MOTOR switch for a few seconds.

7. DISCONNECT ACTUATOR CHECKER (SST) FROM ACTUATOR

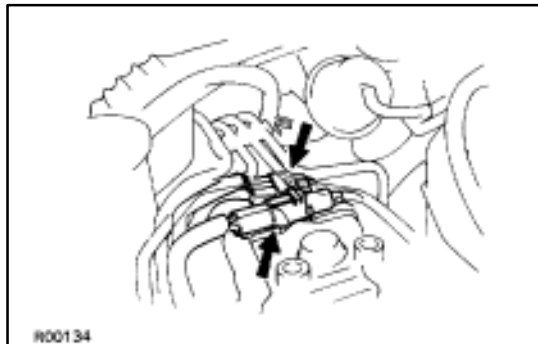
- (a) Disconnect the actuator checker (SST) and subwire harness (SST) from the actuator.

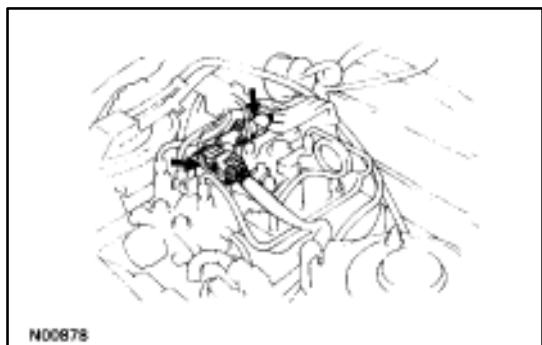
SST 09990-00150

- (b) Connect the actuator connectors.

- (c) Clear the diagnostic codes.

(See page [BR-63](#))





(w/TRAC)

1. INSPECT BATTERY VOLTAGE

Battery voltage: 10–14.5 V

2. DISCONNECT CONNECTORS FROM ACTUATOR

Disconnect the two connectors from the actuator as shown.

3. CONNECT ACTUATOR CHECKER (SST) TO ACTUATOR

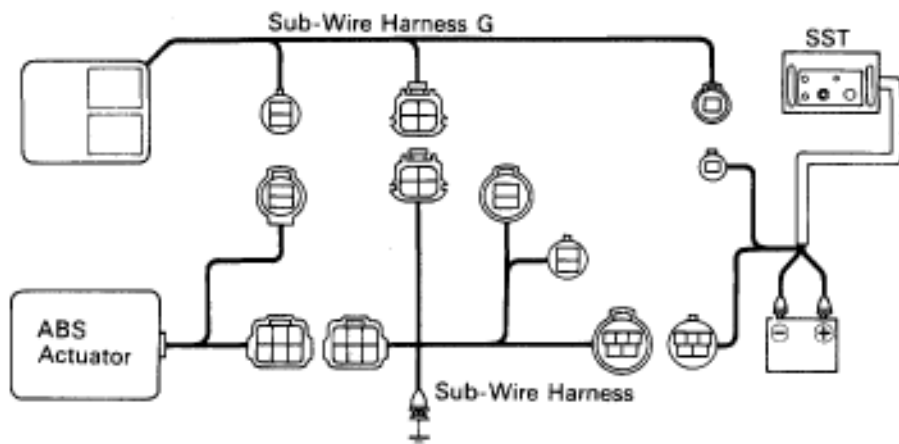
(a) Connect the actuator checker (SST) to the actuator side wire harnesses via the sub-wire harnesses (SST) as shown.

SST 09990-00150 and 09990-00250

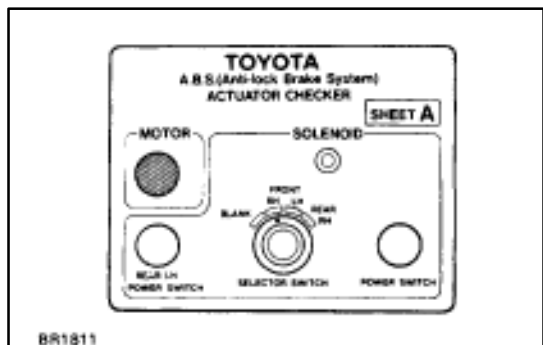
(b) Connect the red cable of the checker to the battery positive (+) terminal and the black cable to the negative (-) terminal. Connect the black cable of the sub-wire harness to the battery negative (-) terminal or body ground.

(c) Place "SHEET A" (SST) on the actuator checker.

SST 09990-00163



R00084



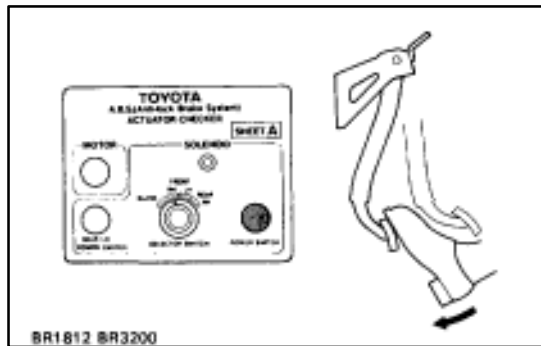
4. INSPECT BRAKE ACTUATOR OPERATION

(a) Start the engine, and run it at idle speed.

(b) Turn the selector switch of the actuator checker to the "FRONT RH" position.

(c) Push and hold in the MOTOR switch for a few seconds.

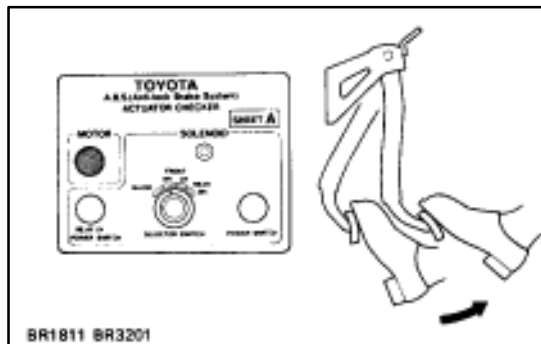
(d) Depress the brake pedal and hold it until step (g) is completed.



- (e) Push the POWER SWITCH, and check that the brake pedal can not be depressed.

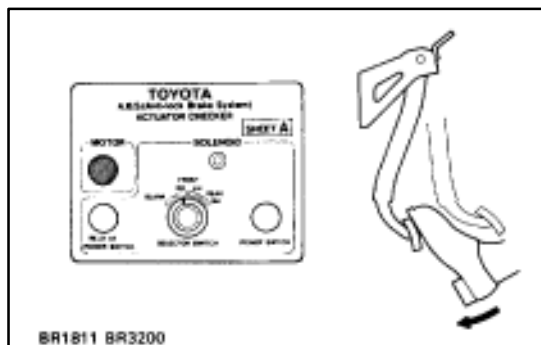
CAUTION: Do not keep the POWER SWITCH pushed in for more than 10 seconds.

- (f) Release the switch, and check that the pedal can be depressed.



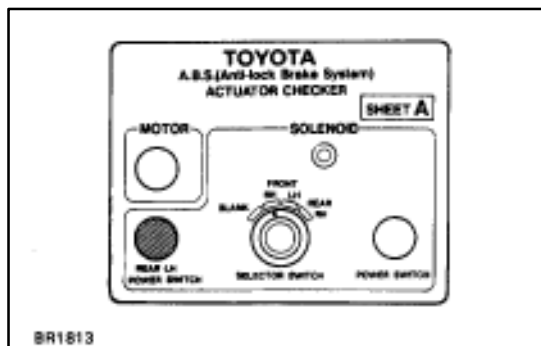
- (g) Push and hold in the MOTOR switch for a few seconds, and check that the pedal returns.

- (h) Release the brake pedal.



- (i) Push and hold in the MOTOR switch for a few seconds.

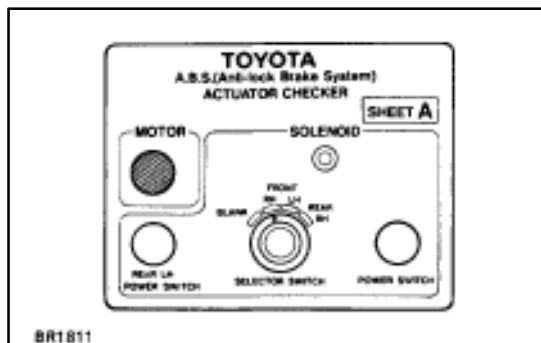
- (j) Depress the brake pedal and hold it for about 15 seconds. As you hold the pedal down, push the MOTOR switch for a few seconds. Check that the brake pedal does not pulsate.



5. INSPECT OTHER WHEELS

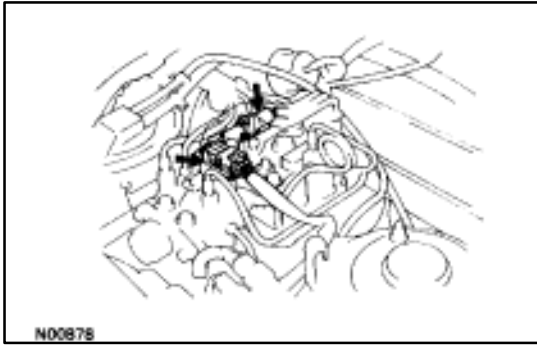
- (a) Turn the selector switch to the "FRONT LH" position.
 (b) Repeat (c) to (j) step 4, checking the actuator operation in the same way.
 (c) Also, inspect the "REAR RH" and "REAR LH" positions following the same procedure.

HINT: When inspecting the "REAR LH" position, push the REAR LH switch instead of the POWER SWITCH. THIS makes it possible to inspect wherever the selector switch position indicates.



6. PUSH MOTOR SWITCH

Push and hold in the MOTOR switch for a few seconds.



7. DISCONNECT ACTUATOR CHECKER (SST) FROM ACTUATOR

- (a) Remove "SHEET A" (SST) and disconnect the actuator checker (SST) and sub-wire harness (SST) from the actuator.

SST 09990-00150 and 09990-00163

- (b) Connect the actuator connectors.
- (c) Clear the diagnostic codes.
(See page [BR-63](#))