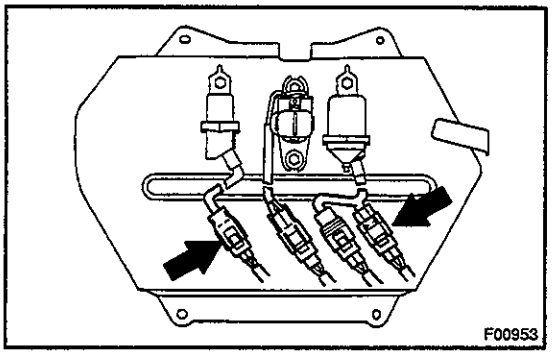


ABS ACTUATOR

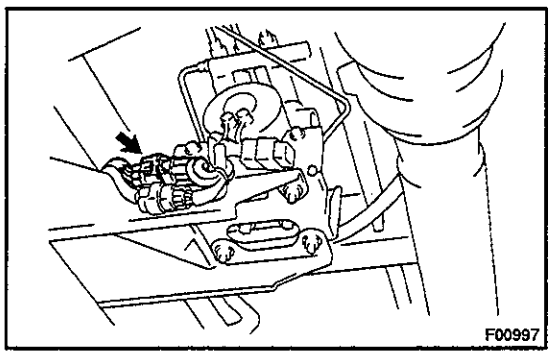
ON–VEHICLE INSPECTION

BR044–01

1. INSPECT BATTERY VOLTAGE
Battery voltage: 22 – 26 V

2. DISCONNECT CONNECTORS

(a) Disconnect the 2 connectors from the solenoid relay and motor sub–relay.

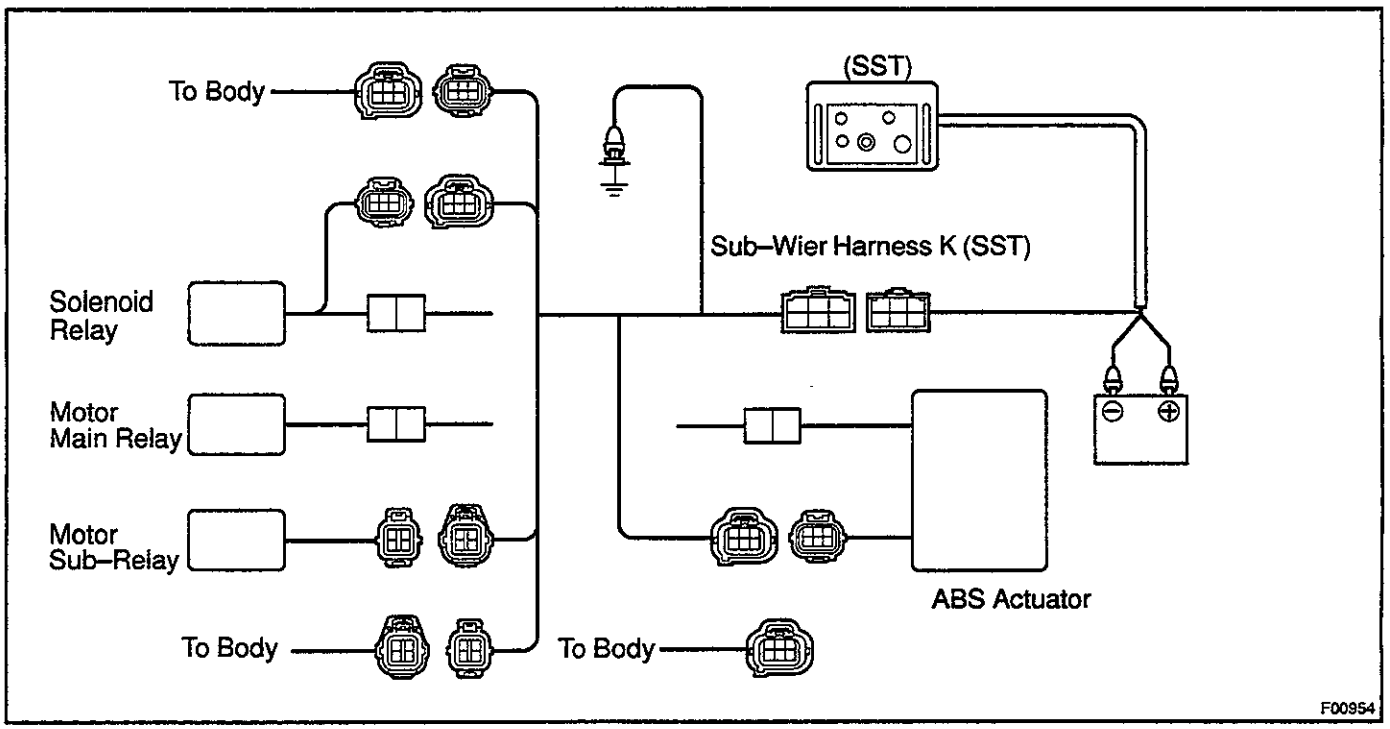


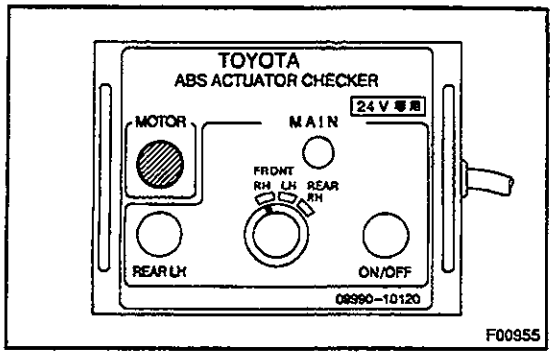
(b) Disconnect the connector from the actuator.

3. CONNECT ACTUATOR CHECKER (SST) TO ACTUATOR

(a) Connect the actuator checker (SST) to the actuator, control relay and body side wire harness through the sub–wire harness K (SST), as shown.
SST 09990–10120, 09990–00320

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





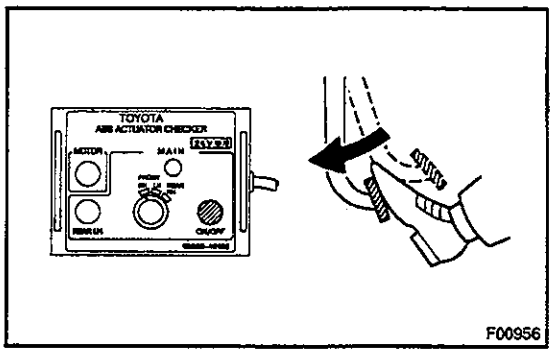
4. INSPECT BRAKE ACTUATOR OPERATION

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

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

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

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

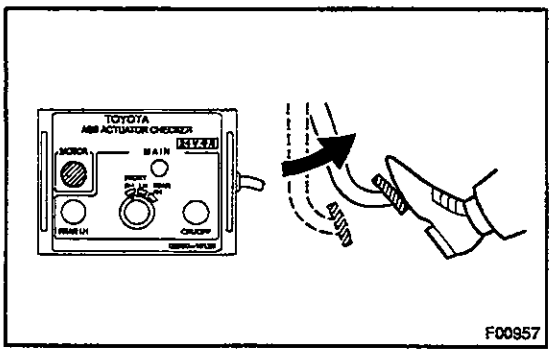


(e) Push the POWER switch, and check that the brake pedal does not go down.

NOTICE:

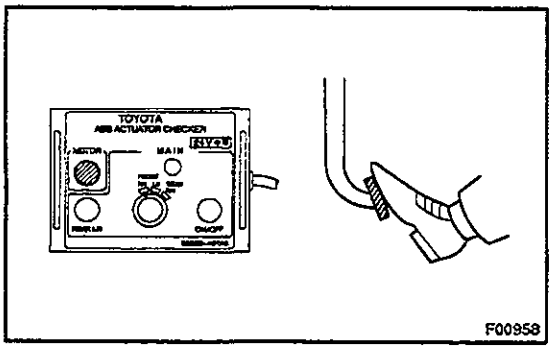
Do not keep the POWER switch pushed down for more than 10 seconds.

(f) Release the switch, and check that the pedal goes down.



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

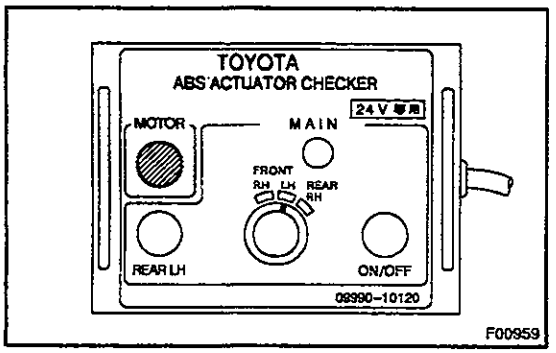
(h) Release the brake pedal.



(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.

(k) Release the brake pedal.



5. INSPECT FOR OTHER WHEELS

(a) Turn the selector switch to "FRONT LH" position.

(b) Repeating (c) to (j) of the step 4, check the actuator operation similarly.

(c) Similarly, inspect "REAR RH" position.

6. PUSH MOTOR SWITCH

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

(b) Stop the engine.

BR

7. DISCONNECT ACTUATOR CHECKER (SST) FROM ACTUATOR

Disconnect the actuator checker (SST) and sub–wire harness (SST) from the actuator, control relay and body side wire harness.

SST 09990–00120, 09990–00320

8. CONNECT CONNECTORS

(a) Connect the 2 connectors to the control relay.

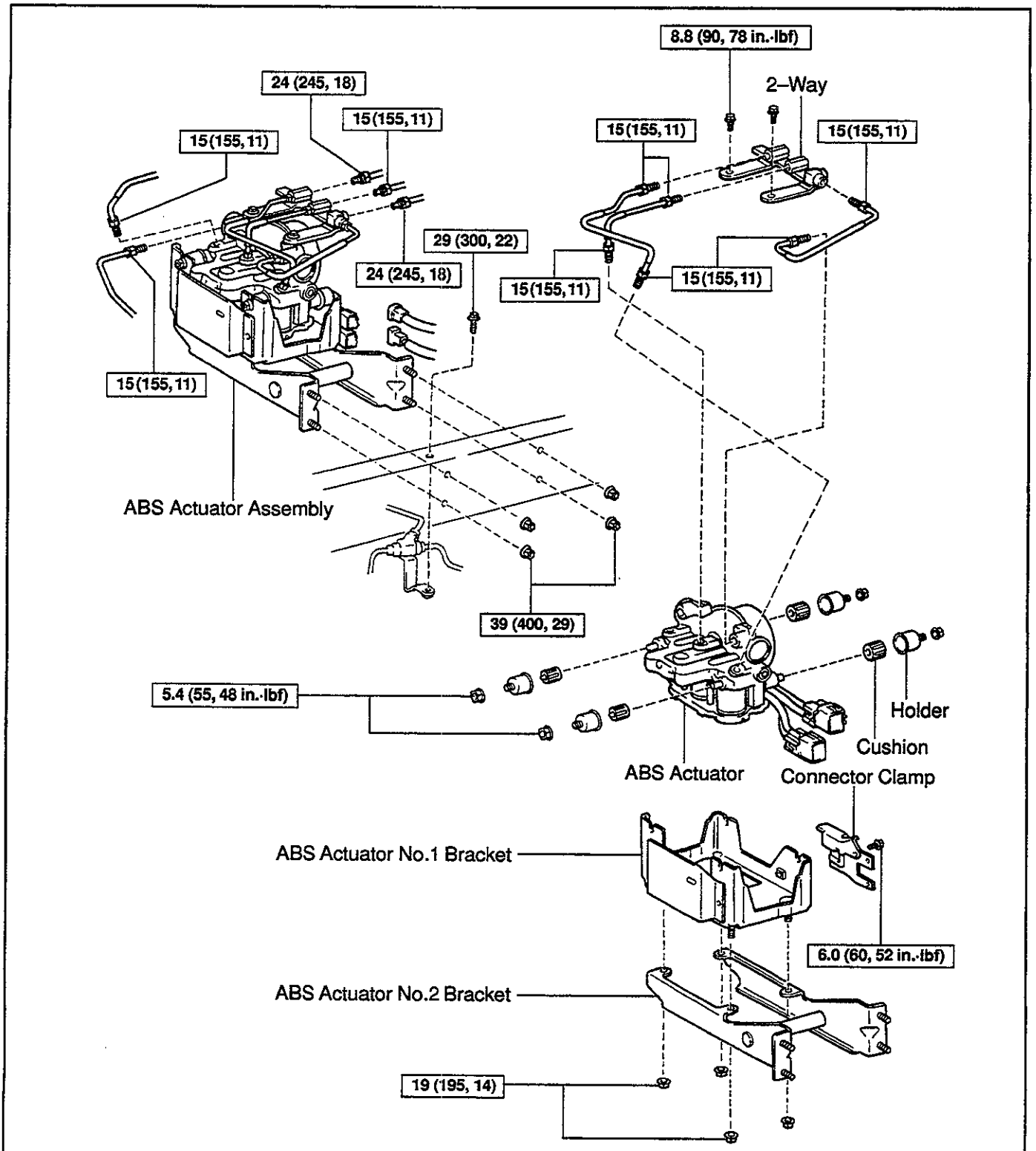
(b) Connect the connector to the actuator.

(c) Install the control relay to the actuator bracket.

9. CLEAR DTC (See page DI–3)

BR045-01

COMPONENTS



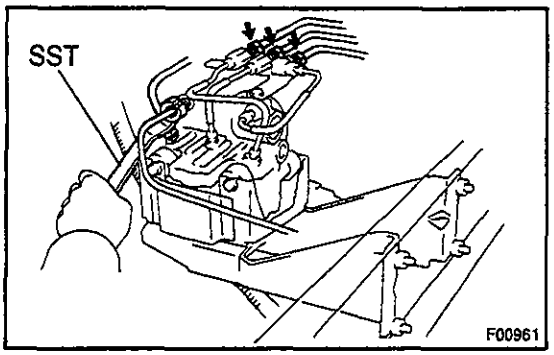
N·m (kgf·cm, ft·lbf) : Specified torque

F00960

BR

BR0046-01

REMOVAL



1. DISCONNECT BRAKE LINES

Using SST, disconnect the 5 brake lines from the ABS actuator.

SST 09751–36011

Torque:

10 mm Nut: 15 N·m (155 kgf·cm, 11 ft·lbf)

12 mm Nut: 24 N·m (245 kgf·cm, 18 ft·lbf)

2. DISCONNECT 2 CONNECTORS FROM ABS ACTUATOR

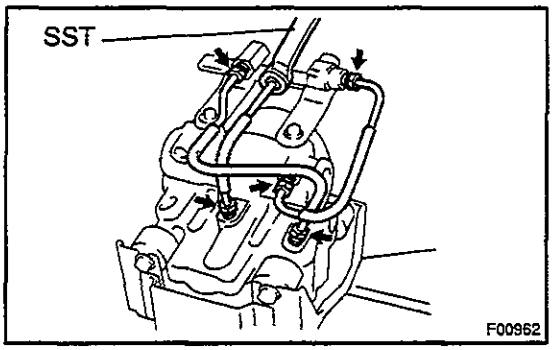
3. REMOVE ABS ACTUATOR ASSEMBLY

(a) Remove the brake line mount bolt.

Torque: 29 N·m (300 kgf·cm, 22 ft·lbf)

(b) Remove the 4 nuts and actuator assembly.

Torque: 39 N·m (400 kgf·cm, 29 ft·lbf)



4. REMOVE ABS ACTUATOR

(a) Using SST, remove the 3 brake lines.

SST 09751–36011

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

(b) Remove the 2 bolts and 2–way.

Torque: 8.8 N·m (90 kgf·cm, 78 in.·lbf)

(c) Remove the bolt and connector clamp.

Torque: 6.0 N·m (60 kgf·cm, 52 in.·lbf)

(d) Remove the 4 nuts and actuator from the actuator bracket.

Torque: 5.4 N·m (55 kgf·cm, 48 in.·lbf)

(e) Remove the 4 holders and cushions from the ABS actuator.

(f) Remove the 4 nuts and separate the bracket.

Torque: 19 N·m (195 kgf·cm, 14 ft·lbf)

BR047-01

INSTALLATION

Installation is in the reverse order of removal.

AFTER INSTALLATION, FILL BRAKE RESERVOIR WITH BRAKE FLUID, BLEED BRAKE SYSTEM (See Pub. No. RM339E on page BR–9) AND CHECK FOR LEAKS