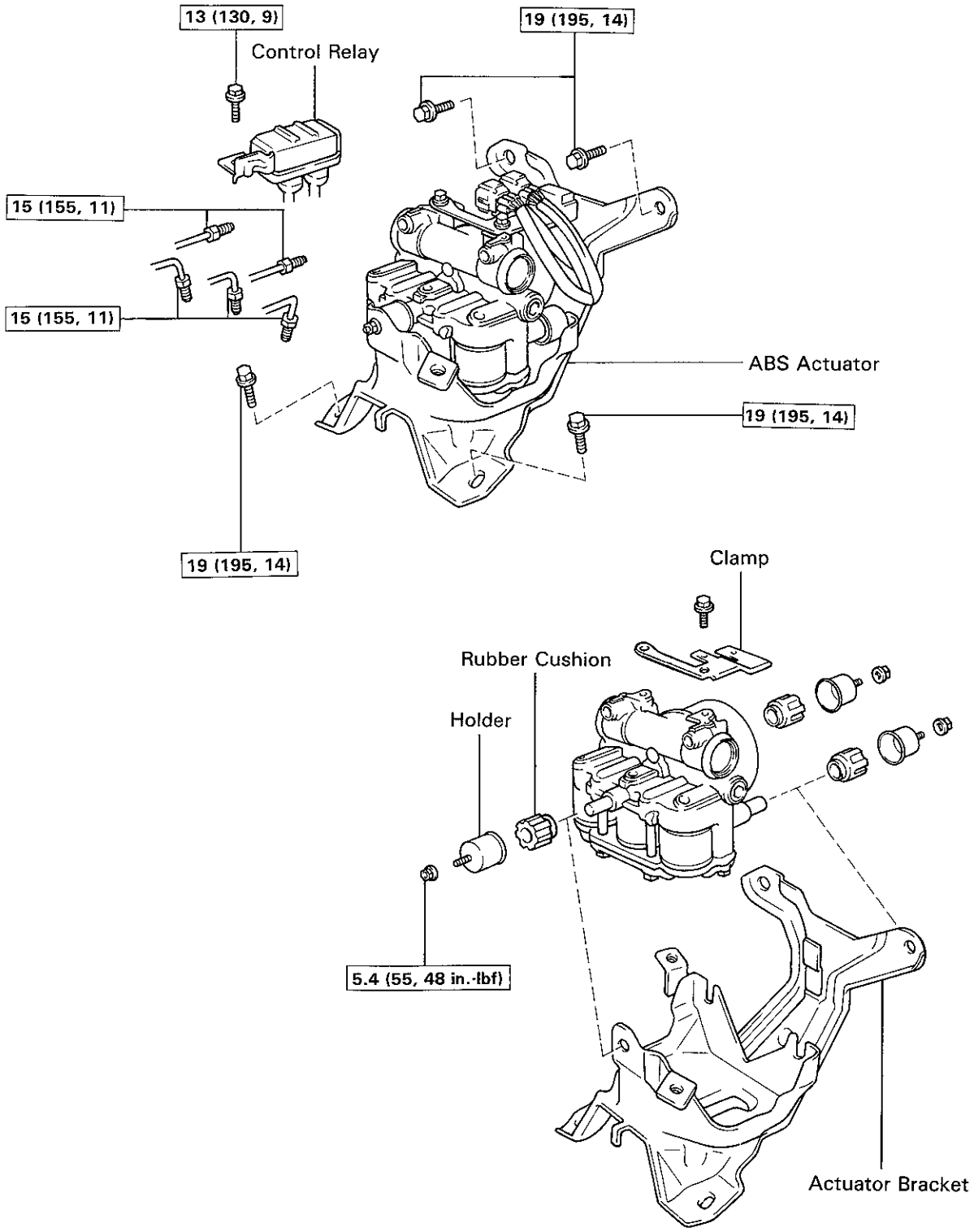
ABS ACTUATOR

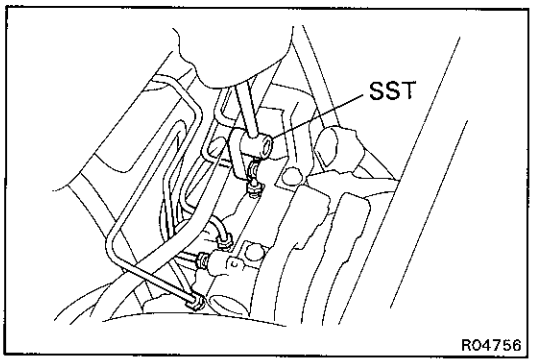
ABS ACTUATOR REMOVAL AND INSTALLATION

Remove and install the parts as shown.



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

R04770



MAIN POINTS OF REMOVAL AND INSTALLATION

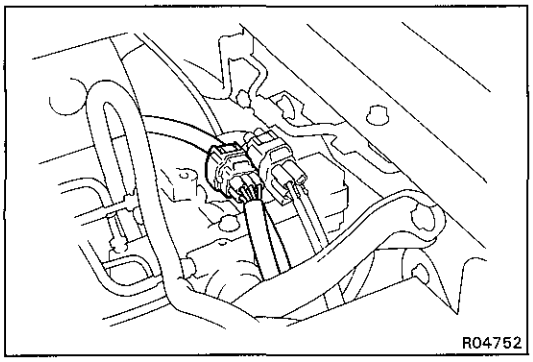
1. **DISCONNECT AND CONNECT BRAKE LINES**

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

   SST 09023-00100

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

2. **BLEED BRAKE SYSTEM**
   (See pub No.RM184E, page BR-7)



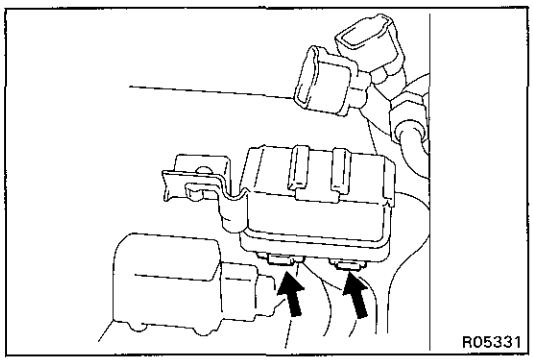
ABS ACTUATOR INSPECTION

1. INSPECT BATTERY VOLTAGE

Battery voltage:
10 – 14.5 V

2. DISCONNECT CONNECTORS

(a) Disconnect the connector from the actuator.



(b) Remove the control relay from the actuator bracket.

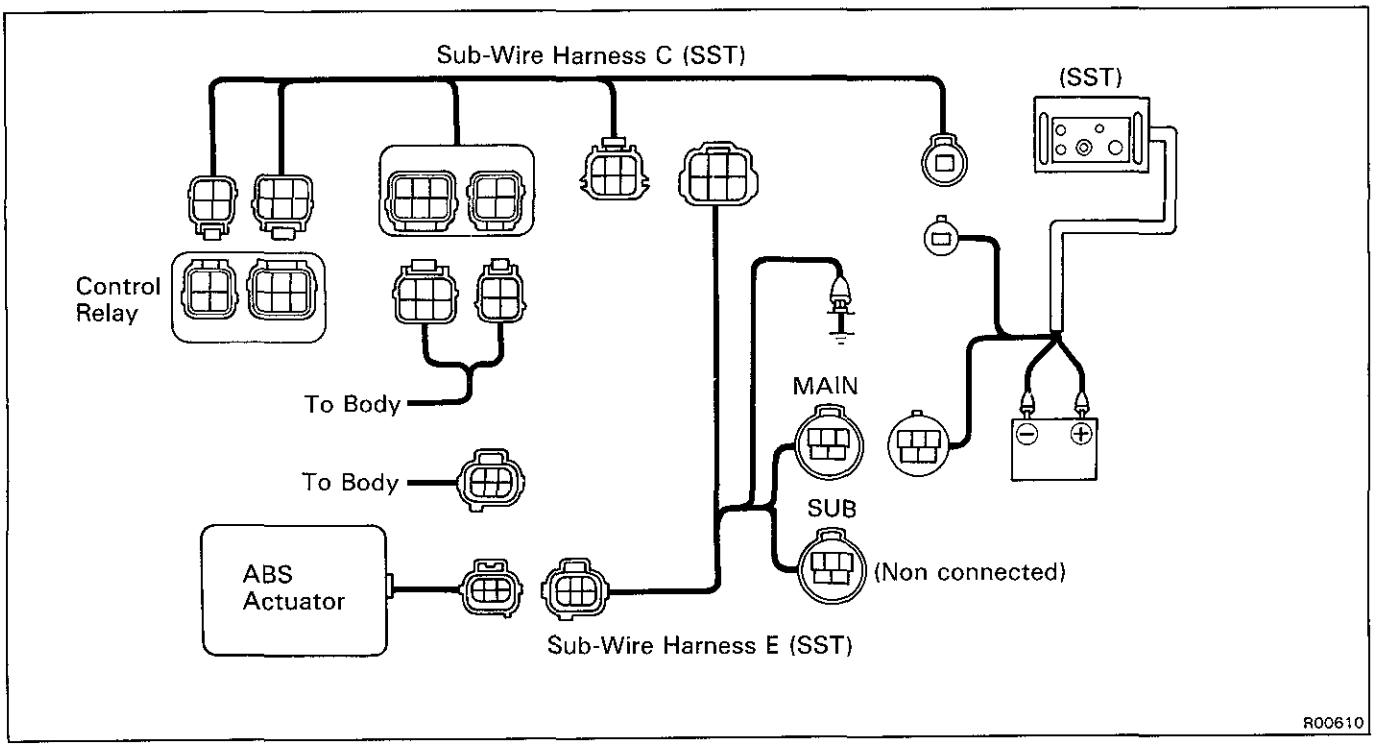
(c) Disconnect the two connectors from the control relay.

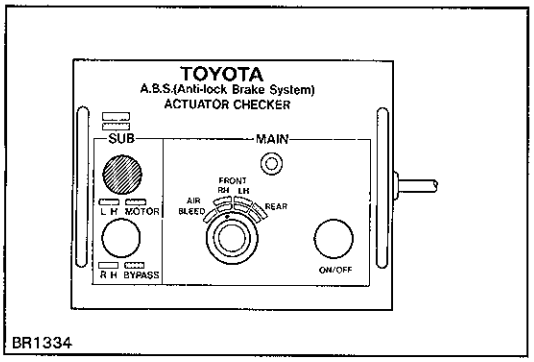
3. CONNECT ACTUATOR CHECKER (SST) TO ACTUATOR

(a) Connect the actuator checker (SST) to the actuator, control relay and body side wire harness through the sub-wire harness C and E (SST) as shown.

SST 09990-00150, 09990-00200, 09990-00210

(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.





BR1334

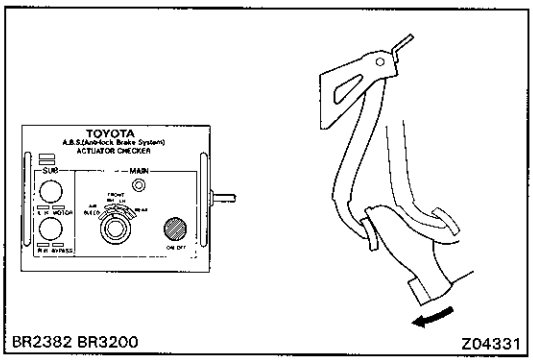
4. INSPECT BRAKE ACTUATOR OPERATION

(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.

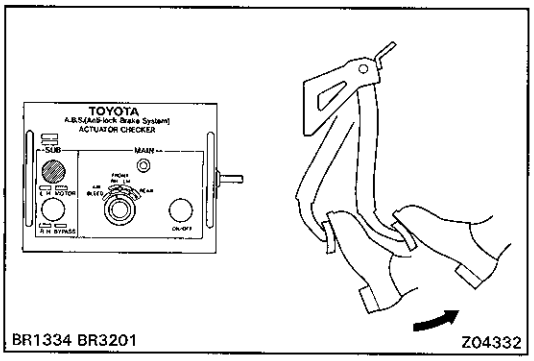


BR2382 BR3200 Z04331

(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.

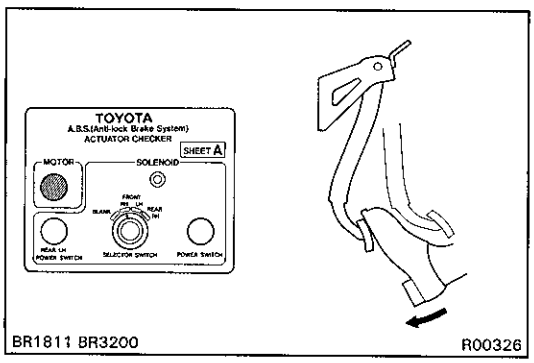
(f) Release the switch, and check that the pedal goes down.



BR1334 BR3201 Z04332

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

(h) Release the brake pedal.

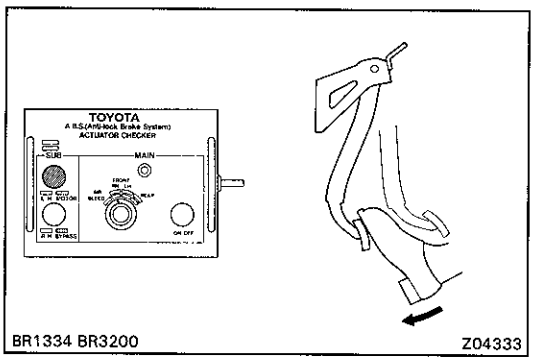


BR1811 BR3200 R00326

(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 MOTOR SWITCH for a few seconds. Check that the brake pedal does not pulsate.

(k) Release the brake pedal.



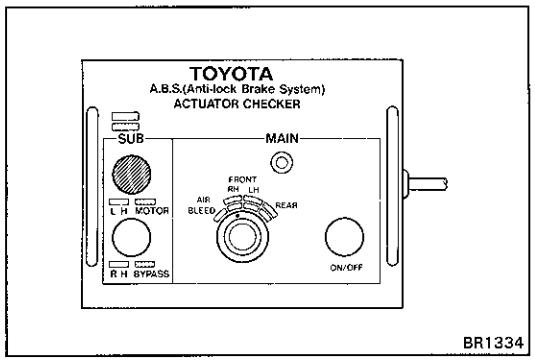
BR1334 BR3200 Z04333

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" position.



6. PUSH SUB MOTOR SWITCH

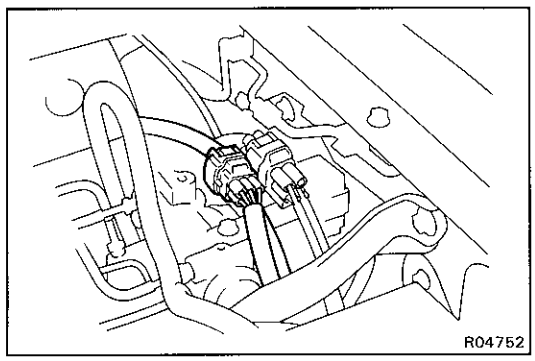
(a) Push and hold in the SUB MOTOR switch for a few seconds.

(b) Stop the engine.

7. DISCONNECT ACTUATOR CHECKER (SST) FROM ACTUATOR

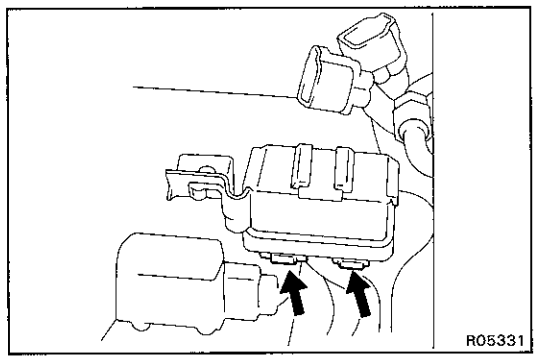
Disconnect the actuator checker (SST) and sub-wire harness (SST) from the actuator, control relay and body side wire harness.

SST 09990-00150, 09990-00200, 09990-00210



8. CONNECT CONNECTORS

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



(b) Connect the connector to the actuator.

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

9. CLEAR DIAGNOSTIC CODES
(See page BR-27)