

## ABS ACTUATOR ON-VEHICLE INSPECTION

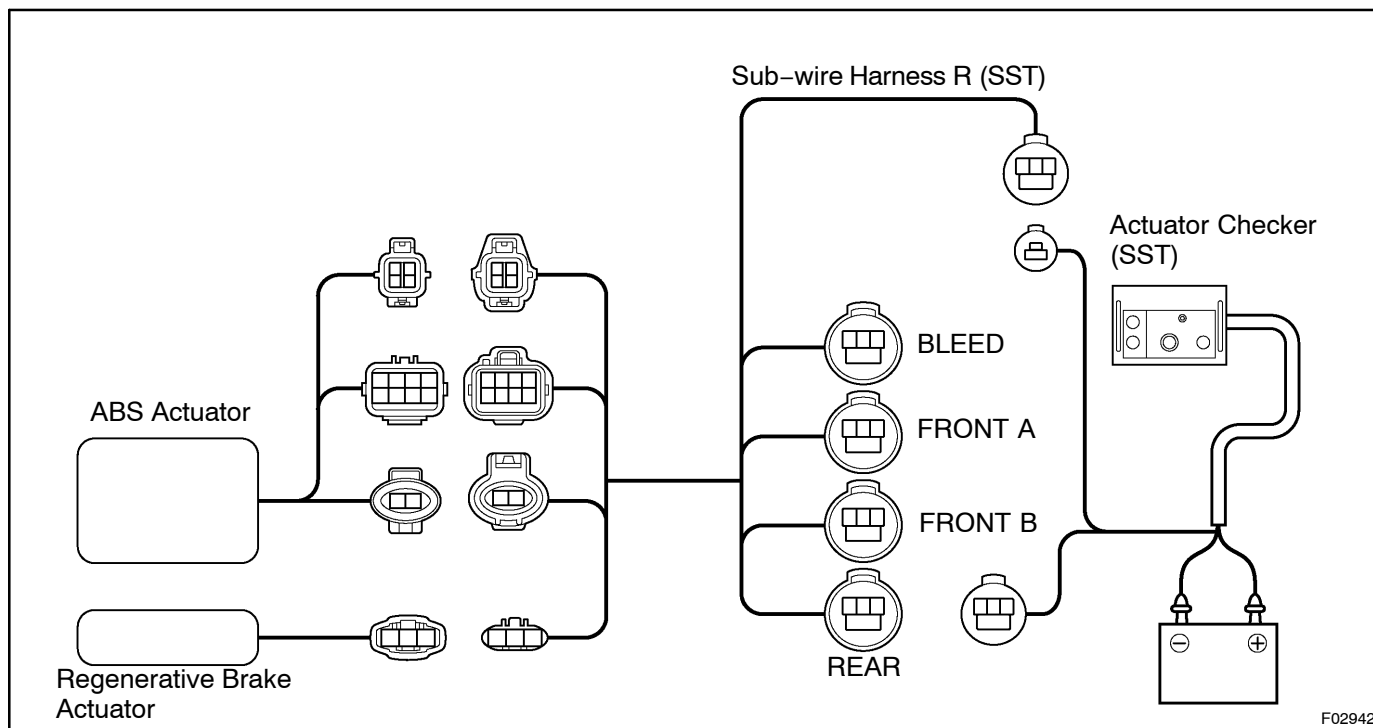
BROOK-01

1. **INSPECT BATTERY POSITIVE VOLTAGE**  
Battery positive voltage: 10 – 14 V
2. **DISCONNECT 3 CONNECTORS FROM ABS ACTUATOR**
3. **DISCONNECT CONNECTOR FROM REGENERATIVE BRAKE ACTUATOR**
4. **CONNECT ACTUATOR CHECKER (SST) TO ACTUATORS**
  - (a) Connect the actuator checker (SST) to the ABS actuator and regenerative brake actuator through the sub-wire harness R (SST) as shown in the chart.  
SST 09990-00150, 09990-00470

### HINT:

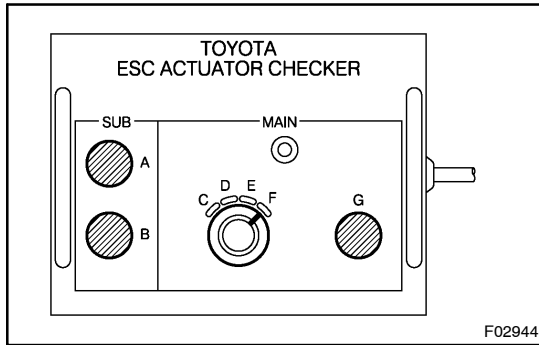
Connect the connector having the label of "FRONT A" to the connector of the actuator checker.

- (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.



### 5. INSPECT ABS SWITCHING SOLENOID

- (a) Turn the motor switch OFF, depress the brake pedal more than 40 times.
- (b) Check that the brake pedal becomes heavy to depress. If the pedal does not become heavy to depress, check and replace the brake line and hydraulic brake booster.



- (c) Turn the select switch to "F" position.

HINT:

Although each indication on an actual checker is different from the one shown in the illustration, follow the indications in this manual.

- (d) Push the switches "A", "B" and "G" simultaneously, depress the brake pedal with stable force.

**NOTICE:**

**Do not keep the switches "A", "B" and "G" pushed down for more than 10 secs.**

- (e) Release the switch "B" and check that the pedal can be depressed.  
 (f) Release the switch "A" and check that the pedal can be depressed.  
 (g) Release the switch "G" and brake pedal.

If the pedal cannot be depressed, replace the ABS actuator.

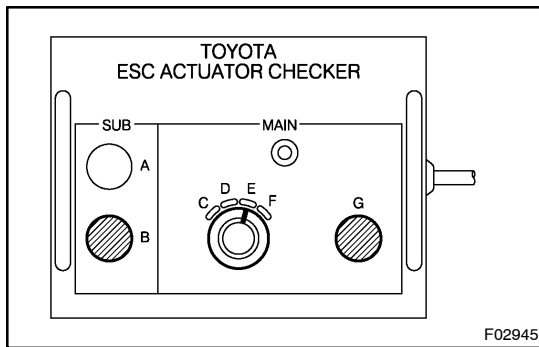
**NOTICE:**

**Do not keep the switches "A", "B" and "G" pushed down for more than 10 secs.**

## 6. INSPECT PUMP MOTOR OPERATION

Turn the motor switch ON and check that pump motor operation noise can be heard.

If the pump motor does not operate, check and replace the pump motor.



## 7. INSPECT FRONT ABS SOLENOID

- (a) Turn the selector switch to "E" position.  
 (b) Push and hold the switches "B" and "G" simultaneously, depress the brake pedal with stable force.

**NOTICE:**

**Do not keep the switches "B" and "G" pushed down for more than 10 secs.**

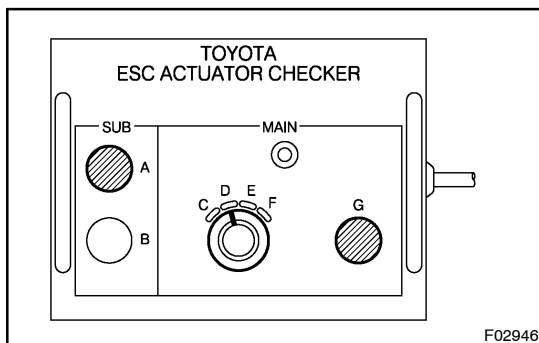
- (c) Check the pedal cannot be depressed.  
 If the pedal can be depressed, replace the ABS actuator.

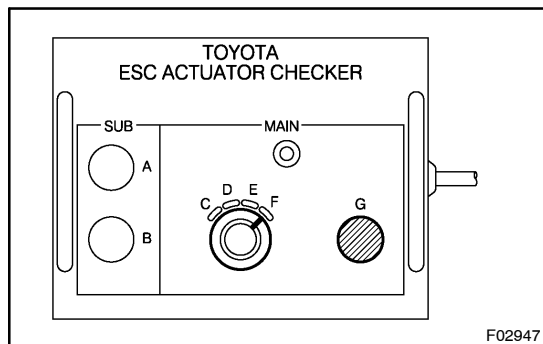
- (d) Release the pedal and switches "B" and "G".  
 (e) Turn the selector switch to "D" position.  
 (f) Push and hold the switches "A" and "G" simultaneously, depress the brake pedal with stable force.

**NOTICE:**

**Do not keep the switches "A" and "G" pushed down for more than 10 secs.**

- (g) Check the pedal cannot be depressed.  
 If the pedal can be depressed, replace the ABS actuator.  
 (h) Release the pedal and switches "A" and "G".



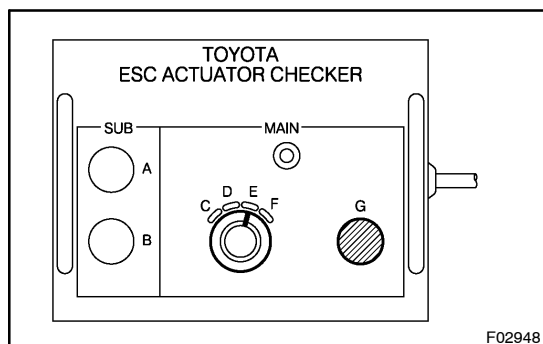


- (i) Turn the motor switch OFF, then reconnect the connector of sub-wire harness from the one with label of "FRONT A" to "FRONT B".
- (j) Turn the select switch to "F" position.
- (k) Depress the brake pedal with stable force, push the switch "G".

**NOTICE:**

**Do not keep the switch "G" pushed down for more than 10 secs.**

- (l) Check the pedal can be depressed.  
If the pedal cannot be depressed, replace the ABS actuator.
- (m) Release the switch "G" and pedal.

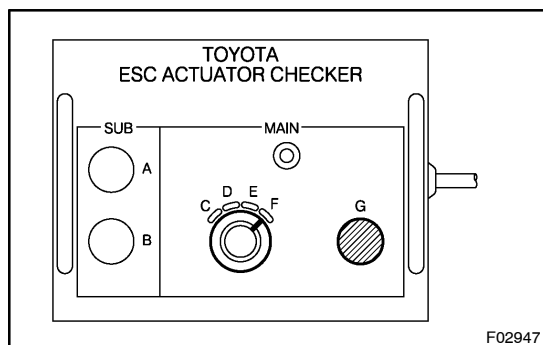


- (n) Turn the select switch to "E" position.
- (o) Depress the brake pedal with stable force, push the switch "G".

**NOTICE:**

**Do not keep the switch "G" pushed down for more than 10 secs.**

- (p) Check the pedal can be depressed.  
If the pedal cannot be depressed, replace the ABS actuator.
- (q) Release the switch "G" and pedal.

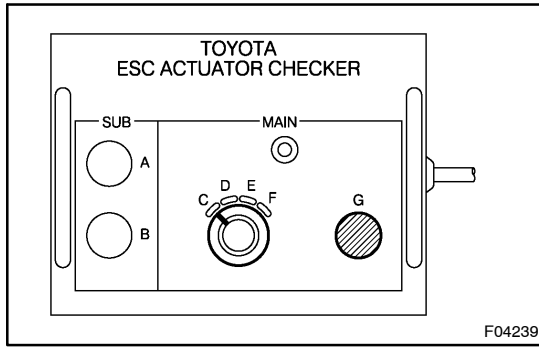
**8. INSPECT REAR ABS SOLENOID.**

- (a) Jack up and support the vehicle.
- (b) Release the PKB lever.
- (c) Turn the motor switch OFF, then reconnect the connector of sub-wire harness from the one with label of "FRONT B" to "REAR".
- (d) Turn the select switch to "F" position.
- (e) Push the switch "G", depress the brake pedal with stable force.

**NOTICE:**

**Do not keep the switch "G" pushed down for more than 10 secs.**

- (f) Check the rear wheel by rotating it by hand.  
If the rear wheel stops, replace the ABS actuator.
- (g) Release the switch "G" and brake pedal.



- (h) Turn the select switch to "C" position.
- (i) Depress the brake pedal with stable force, then push the switch "G".

**NOTICE:**

**Do not keep the switch "G" pushed down for more than 10 secs.**

- (j) Check the rear wheel by rotating it by hand.  
If the wheel stops, replace the ABS actuator.

- (k) Release the switch "G" and pedal.
- (l) Lower the vehicle.

**9. DISCONNECT ACTUATOR CHECKER (SST)**

- (a) Disconnect the actuator checker (SST) and sub-wire harness (SST) from ABS and regenerative brake actuator.
- (b) Connect the 4 connectors to the ABS and regenerative brake actuator.

**10. CLEAR DTC (See page [DI-245](#))**