BRAKE STROKE SIMULATOR CYLINDER SUB–ASSY
ON–VEHICLE INSPECTION

32159–01

NOTICE:

The DTC may be stored after inspection. Be sure to clear the DTC and check that a normal system code is output after the inspection is finished.

1. **INSPECT STROKE SIMULATOR**
(a) Check battery voltage
   Standard Value: 10 to 14 V (during engine stop)
(b) Connect hand–held tester and pedal effort gauge
   (1) Connect the pedal effort gauge.
   (2) Move the shift lever to the P position. Apply the parking brake and connect the hand–held tester to the DLC3.
   (3) Turn the power switch on (IG).
   (4) Clear the DTC (see page 05–975).
(c) Check operation w/o brake booster (see page 32–22).
   (1) Check and adjust brake pedal height (see page 32–16).
   (2) Check pedal free play (see page 32–16).
   (3) Check pedal reserve distance (see page 32–16).
   (4) Turn on the hand–held tester and select "ECB INVALID" to prohibit the brake control (ECB).
   (5) Monitor "MAS CYL PRS 1", "MAS CYL PRS 2", "PEDAL STROKE" and "PEDAL STROKE 2" using the hand–held tester.
   (6) Check the value output from "MAS CYL PRS 1", "MAS CYL PRS 2", "PEDAL STROKE" and "PEDAL STROKE 2" by depressing the brake pedal.

Standard Value:

Pedal Effort N (kgf, lbf)	MAS CYL PRS 1 (V)	MAS CYL PRS 2 (V)	PEDAL STROKE (V)	PEDAL STROKE 2 (V)
200 (20.4, 45)	0.9 – 1.2	0.9 – 1.2	1.7 – 2.1	2.9 – 3.3
500 (51, 112)	1.7 – 2.2	1.7 – 2.2	1.9 – 2.3	2.7 – 3.1

   (7) Finish the brake control prohibition on the hand–held tester.
(d) Check operation w/ brake booster
   (1) Turn on the power switch.
   (2) Turn on the hand–held tester and monitor the value of "PEDAL STROKE" and "PEDAL STROKE 2".
   (3) Depress the brake pedal 4 to 5 times.
   (4) Check the value output from "PEDAL STROKE" and "PEDAL STROKE 2" by depressing the brake pedal.

Standard Value:

Pedal Effort N (kgf, lbf)	PEDAL STROKE (V)	PEDAL STROKE 2 (V)
50 (5.1, 11)	1.1 – 1.7	3.3 – 3.8
100 (10.2, 22)	1.3 – 1.8	3.2 – 3.7
150 (15.3, 34)	1.4 – 1.8	3.2 – 3.6
200 (20.4, 45)	1.4 – 1.8	3.2 – 3.6