

# BRAKE MASTER CYLINDER SUB-ASSY

32156-01

## ON-VEHICLE INSPECTION

### 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 BRAKE MASTER CYLINDER

- (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
  - (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.