

1K



EXCVA / EXCV Cable Removal and Installation

[Reference: Exhaust Control System Construction](#)

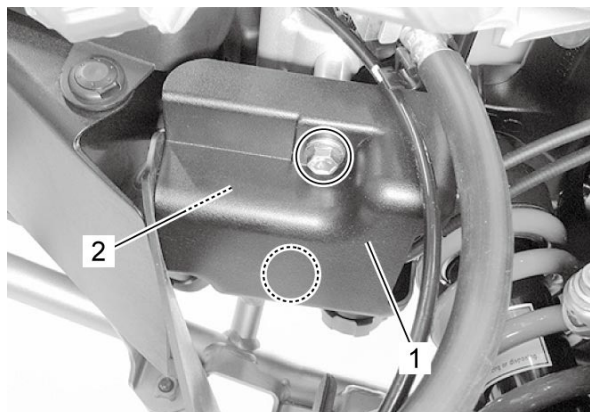
[Reference: Exhaust System Components](#)


Removal

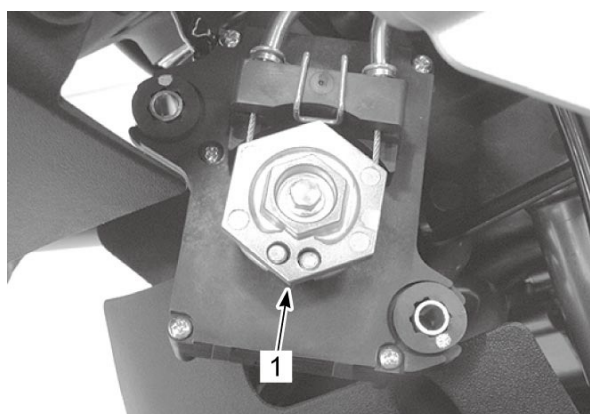
NOTE:

Before removing the EXCV cables, be sure to set the EXCVA pulley to the adjustment position.

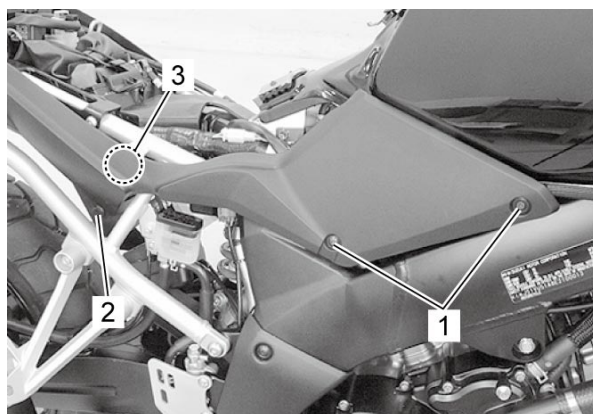
- 1) Turn the ignition switch OFF.
- 2) Remove the EXCVA cover (1) with the EXCVA (2).



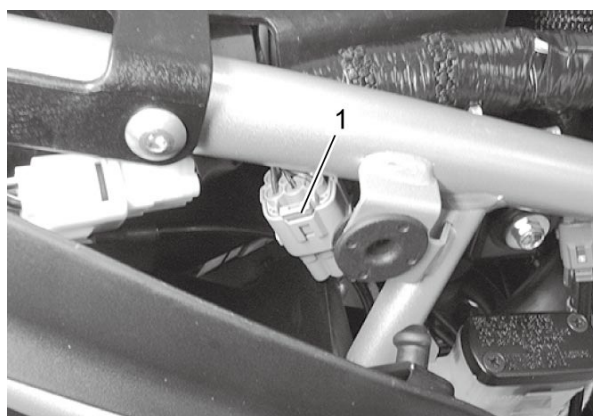
- 3) Connect the special tool (Mode select switch) to the mode select coupler. 
- 4) After turning the mode select switch ON, turn the ignition switch ON.
- 5) Check that the cable slots of the EXCVA pulley comes to the middle (Adjustment position) (1).
- 6) Turn the ignition switch OFF.



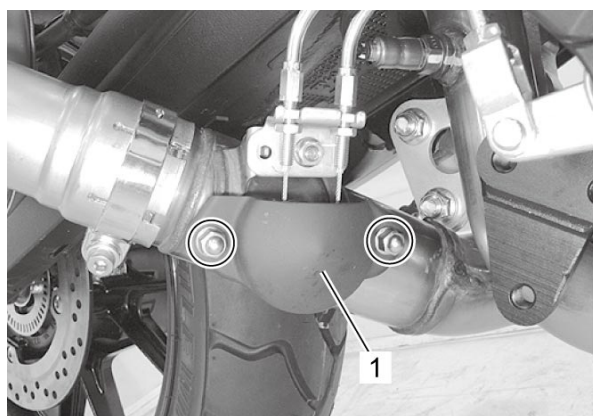
- 7) Remove the screws (1) and clip (2).
- 8) Disconnect the hook (3)



9) Disconnect the EXCVA coupler (1)

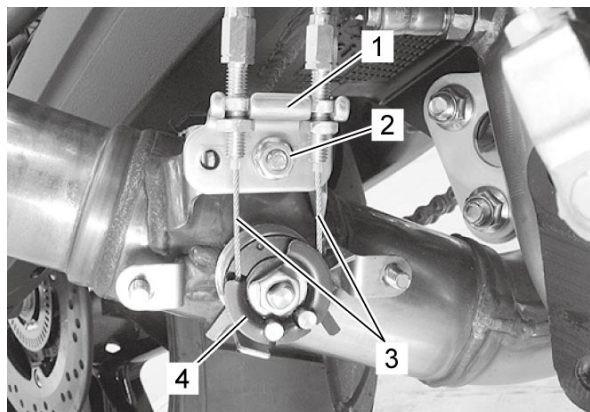


10) Remove the EXCV coupler (1).



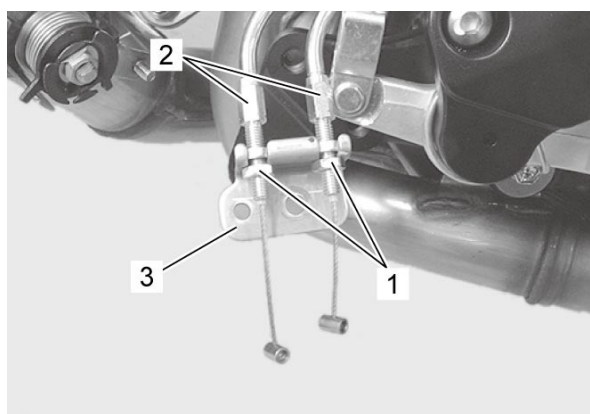
11) Remove the EXCV cable bracket (1) by removing the nut (2).

12) Remove the EXCV cables (3) from the EXCV pulley (4).

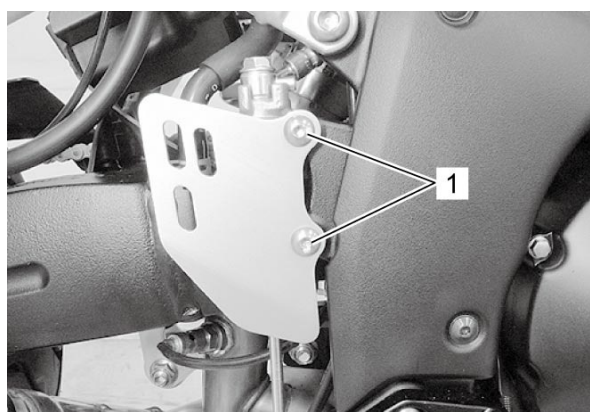


13) Loosen the lock-nuts (1).

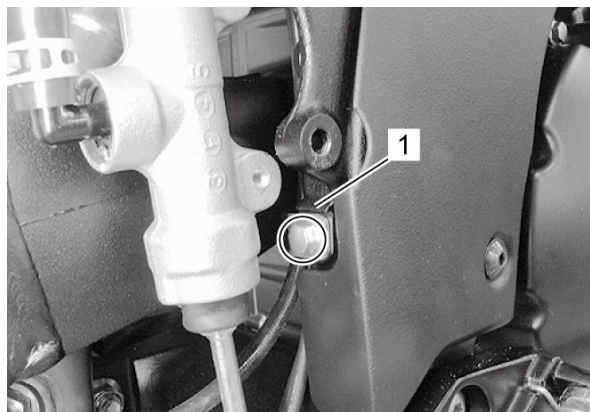
14) Remove the EXCV cables (2) from its bracket (3).



15) Remove the rear brake master cylinder mounting bolts (1).



16) Remove the EXCV cable guide (1).

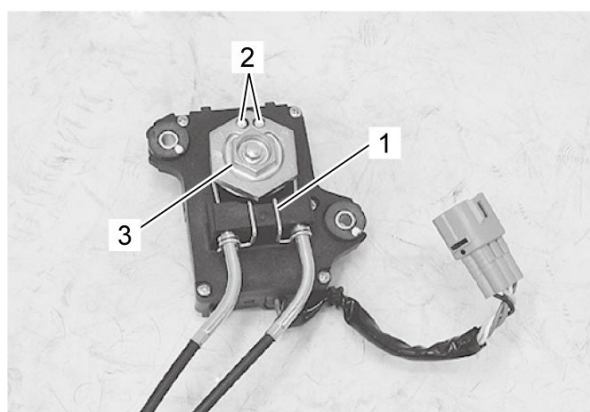


17) Remove the EXCVA (1) with the EXCV cables.



18) Remove the guide (1).

19) Disconnect the EXCV cables (2) from the EXCVA pulley (3).



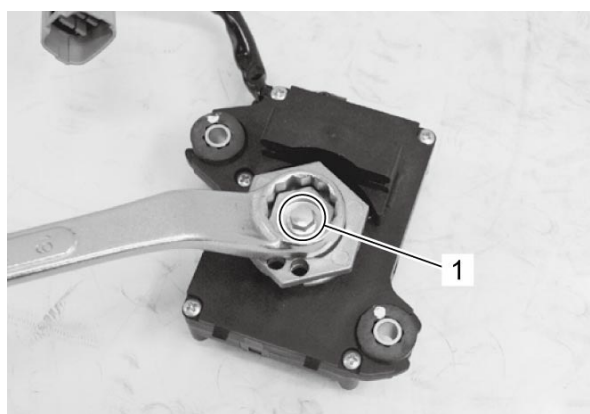
20) Hold the pulley with a box end wrench, and remove the pulley mounting bolt (1).

NOTICE:

- When loosening or tightening the pulley bolt, be sure to fix the pulley with a box end wrench, or EXCVA may get damaged.

- **Do not use the box end wrench to turn EXCVA pulley so as not to cause damage to the internal gear of EXCVA.**

21) Remove the pulley from the EXCVA body.



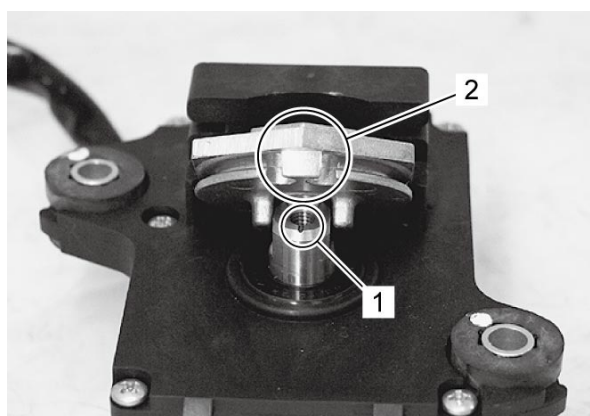
Installation

Reference: [EXCVA Pulley Inspection](#)

1) Install the EXCVA pulley to the shaft.

NOTE:

Align the shaft's line (1) and cable slots (2).



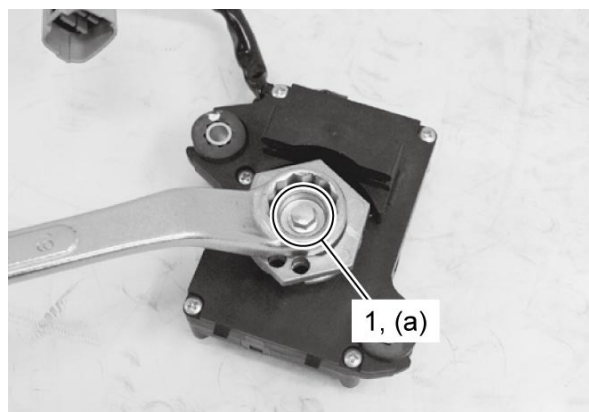
2) Hold the pulley with a box end wrench, and then tighten the pulley mounting bolt (1) to the specified torque.

NOTICE:

When loosening or tightening the pulley bolt, be sure to fix pulley with a box end wrench, or EXCVA may get damaged.

Tightening torque

EXCVA pulley mounting bolt (a): 5 N·m (0.5 kgf-m, 4.0 lbf-ft)



- 3) Install the EXCVA with the EXCV cables as shown in the exhaust control system construction and rear brake hose routing diagram.
- 4) Temporarily install the EXCV cable No. 1 (31J00L) (1) and No. 2 (31J00P) (2) to the EXCV cable bracket (3) and install them to the center exhaust pipe.

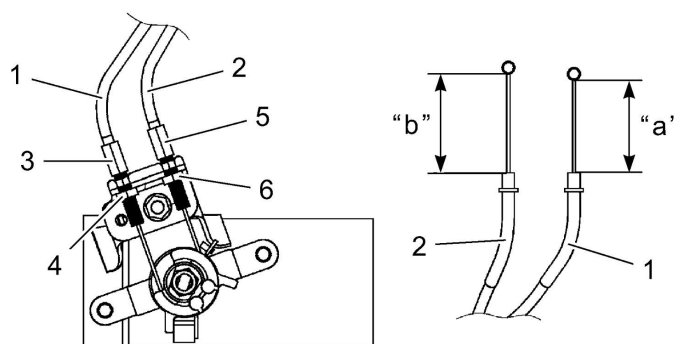
NOTE:

The EXCV cables are identified by the letters.

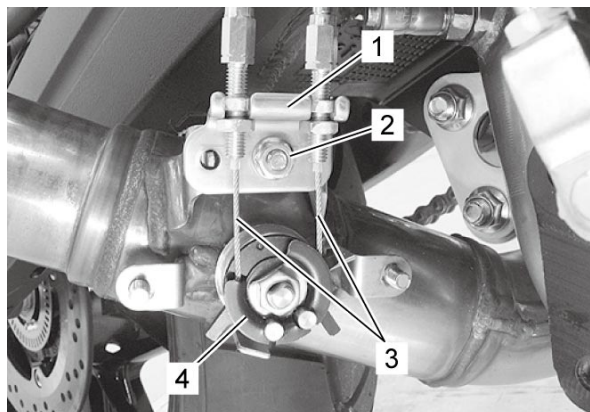
No. 1 cable (1): 31J00L

No. 2 cable (2): 31J00P

- 5) Install the EXCV cable No. 1 (1) and No. 2 (2) to the EXCV pulley.
- 6) Adjust the inner cable length "a" of No. 1 cable (1) in 46 – 47 mm (1.81 – 1.85 in) by turning the adjuster (3), then tighten the lock-nuts (4).
- 7) Adjust the inner cable length "b" of No. 2 cable (2) in 52.3 – 53.3 mm (2.06 – 2.10 in) by turning the adjuster (5), then tighten the lock-nuts (6).

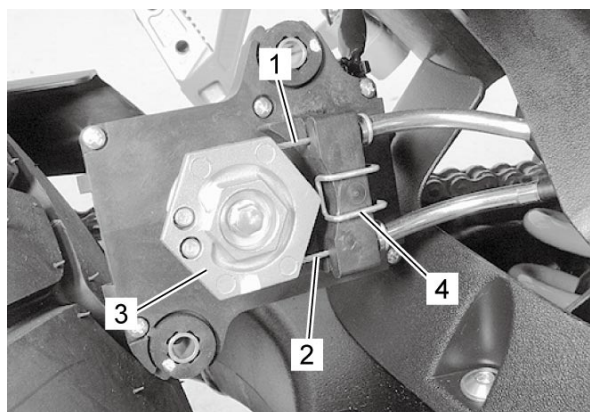


- 8) Remove the EXCV cable bracket (1) by removing the nut (2).
- 9) Remove the EXCV cables (3) from the EXCV pulley (4).

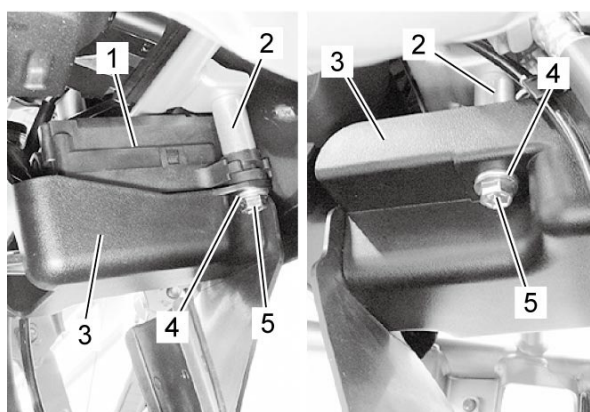


10) Install the EXCV cable No. 1 (1) and No. 2 (2) to the EXCVA pulley (3).

11) Install the guide (4).



12) Install the EXCVA (1), spacers (2), EXCVA cover (3), washers (4) and tighten the EXCVA mounting bolts (5).



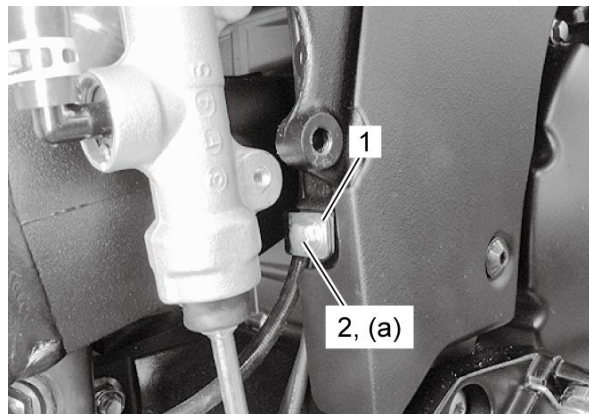
13) Connect the EXCVA coupler.


14) Pass the EXCV cables and HO2 sensor #2 lead wire into the guide (1) and install the guide (1).

- 15)** Tighten the EXCV cable guide bolt (2) to the specified torque.

Tightening torque

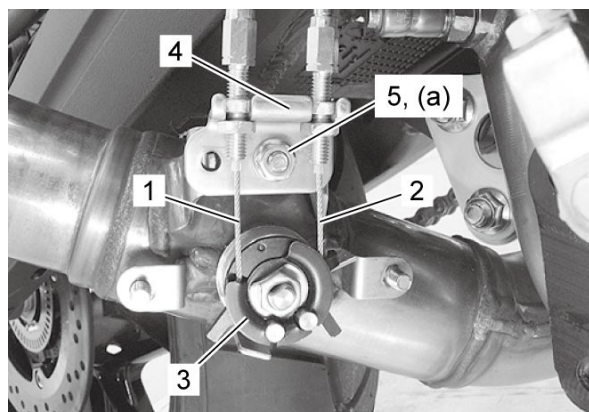
EXCV cable guide bolt (a): 10 N·m (1.0 kgf-m, 7.5 lbf-ft)



- 16)** Install the rear brake master cylinder. 
- 17)** Install the EXCV cable No. 1 (1) and No. 2 (2) to the EXCV pulley (3).
- 18)** Install the EXCV cable bracket (4) and tighten the nut (5) to the specified torque.

Tightening torque

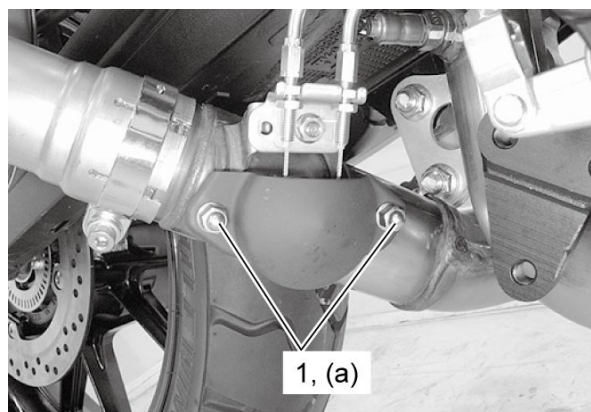
EXCV cable bracket mounting nut (a): 11 N·m (1.1 kgf-m, 8.0 lbf-ft)



- 19)** Tighten the EXCV cover nut (1) to the specified torque.

Tightening torque

EXCV cover nut (a): 10 N·m (1.0 kgf-m, 7.5 lbf-ft)



20) Install the removed parts.

21) Inspect the EXCVA position sensor voltage. Refer to [EXCVA Adjustment](#).