

1K



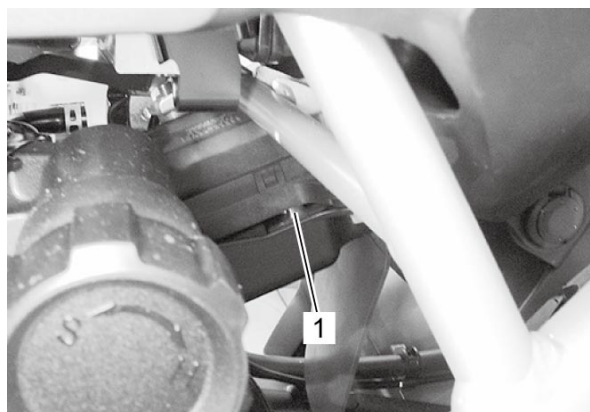
EXCVA Adjustment

Step 1

- 1) Set the EXCVA to the adjustment position. Refer to [EXCVA / EXCV Cable Removal and Installation](#).

Step 2

- 1) Turn the ignition switch OFF.
- 2) Connect the special tool (Mode select switch) to the mode select coupler.
- 3) Turn the ignition switch ON and check the operation of EXCVA (1).
(EXCVA operation order: Full close → Full open → Middle position)

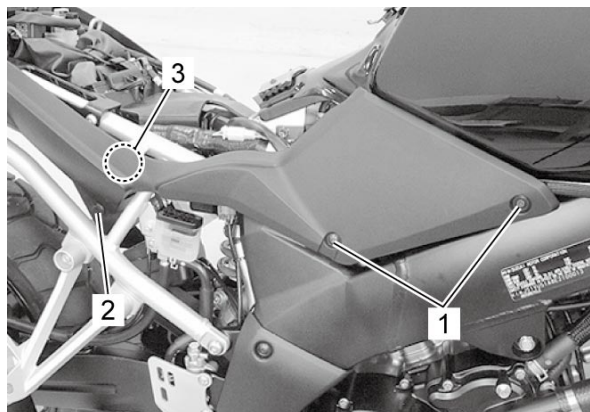



- 4) Turn the mode select switch ON. If DTC "C46" is not indicated on the LCD display (1), the adjustment is correctly completed. If "C46" is indicated, repeat the procedures from Step 3 to Step 4.

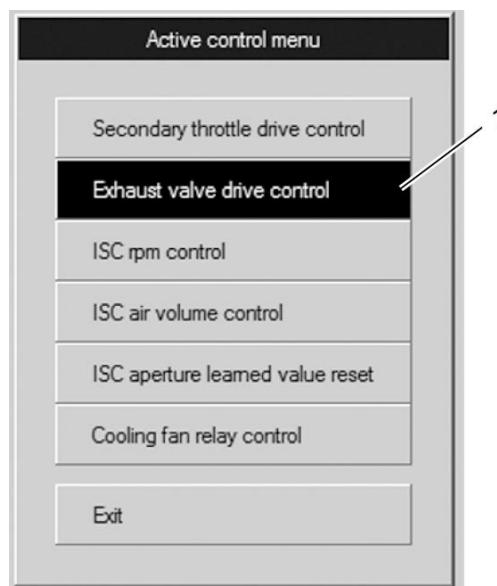


Step 3

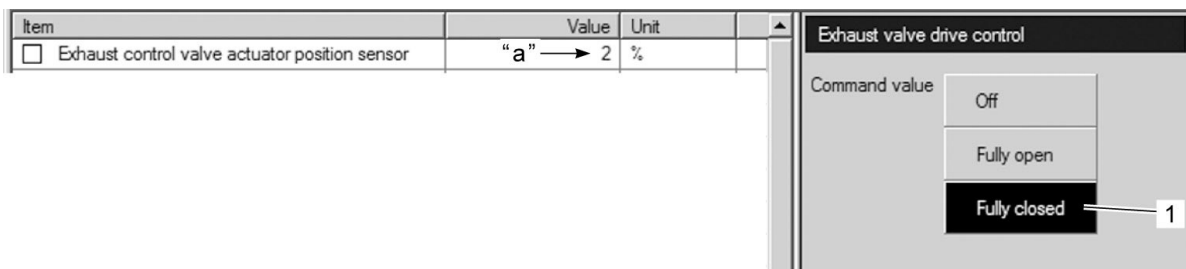
- 1) Turn the ignition switch OFF.
- 2) Remove the screws (1) and clip (2).
- 3) Disconnect the hook (3).



- 4) Set up the SDS tools referring to the SDS operation manual for further details. 
- 5) Turn the ignition switch ON.
- 6) Click "Exhaust valve drive control" (1).



- 7) Click "Full closed" (1).

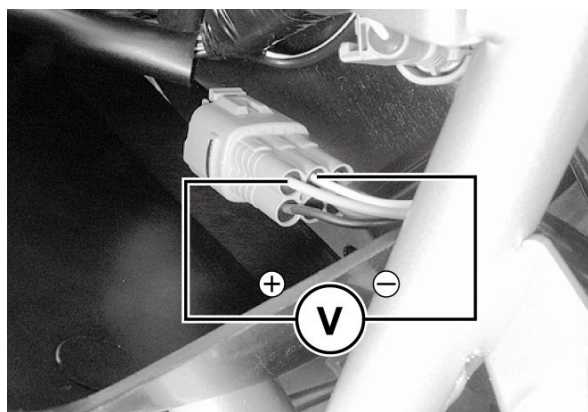


"a":	Exhaust control valve actuator position: 2%
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- 8) Measure the EXCVA position sensor voltage between the Y wire and W wire at EXCV fully closed position.

EXCVA position sensor voltage

EXCV is fully closed: 0.45 – 1.40 V



- 9) If the measured voltage is less than specification, adjust the No. 1 cable adjuster (1) as follows:

- a) Set the EXCVA to the adjustment position. Refer to [EXCVA / EXCV Cable Removal and Installation](#).

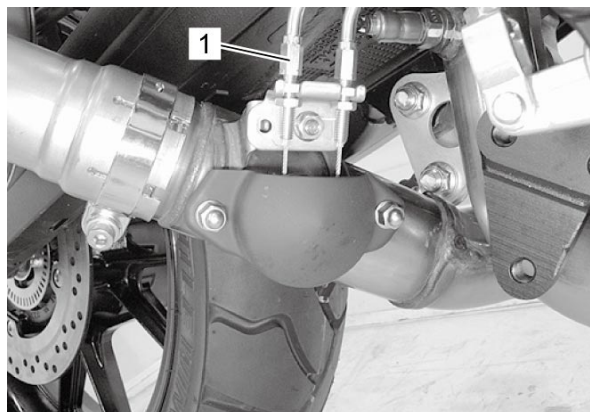
NOTICE:

Adjusting the No. 1 cable with the EXCV fully closed can damage the EXCVA. Be sure to adjust the No. 1 cable with the EXCV set in the adjustment position.

- b) Turn the No. 1 cable adjuster (1) in or out to set the voltage within the specified value.

NOTE:

If C46 code is indicated after adjusting the voltage, increase the voltage to 0.9 V.



Step 4

- 1) Click "Full open" (1).

Item	Value	Unit
<input type="checkbox"/> Exhaust control valve actuator position sensor	"a" → 98	%

Exhaust valve drive control

Command value

Off

Fully open 1

Fully closed

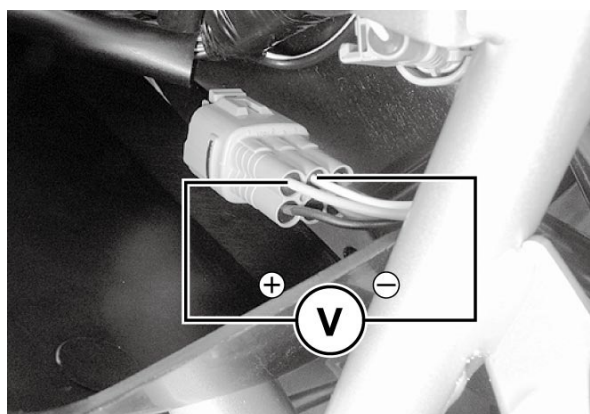


"a":	Exhaust control valve actuator position: 98%
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- 2) Measure the EXCVA position sensor voltage between the Y wire and W wire at EXCV fully opened position.

EXCVA position sensor voltage

EXCV is fully opened: 3.60 – 4.55 V



- 3) If the measured voltage is more than specification, adjust the No. 2 cable adjuster (1) as

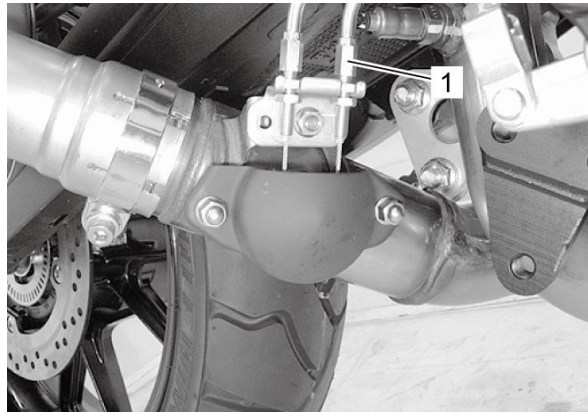
follows:

- a) Set the EXCVA to the adjustment position. Refer to [EXCVA / EXCV Cable Removal and Installation](#).

NOTICE:


**Adjusting the No. 2 cable with the EXCV fully opened can damage the EXCVA.
Be sure to adjust the No. 2 cable with the EXCV set in adjustment position.**

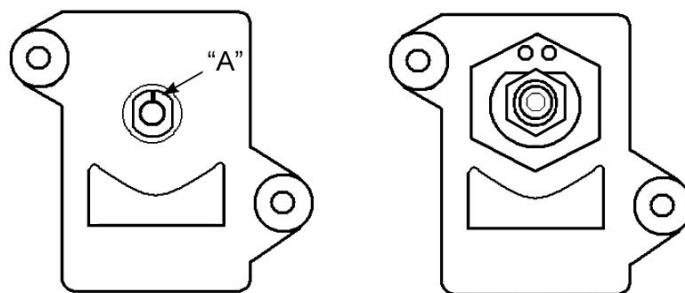
- b) Turn the No. 2 cable adjuster (1) in or out to set the output voltage within the specified value.



- 4) After adjusting the EXCV cables, perform Step 2 to confirm DTC "46" is not indicated.
- 5) Install the removed parts.

Repair (EXCV pulley does not rotate when turning the ignition switch ON, during EXCVA adjustment)

- 1) Turn the ignition switch OFF.
- 2) Disconnect the EXCVA coupler and EXCV cables from the EXCVA pulley. 
- 3) Apply 12 V to the EXCVA lead wire between the Gr wire and P wire to rotate the motor so that the line "A" or pulley comes to the adjacent position as shown.



- 4) Connect the EXCVA coupler.
- 5) Check the EXCVA to the adjustment position. Refer to [EXCVA / EXCV Cable Removal and Installation](#).
- 6) Turn the ignition switch OFF.
- 7) Connect the EXCV cables and install the EXCVA. Refer to [EXCVA / EXCV Cable Removal and Installation](#).
- 8) Inspect the EXCVA position sensor voltage. Refer to [EXCVA Adjustment](#).