

1A



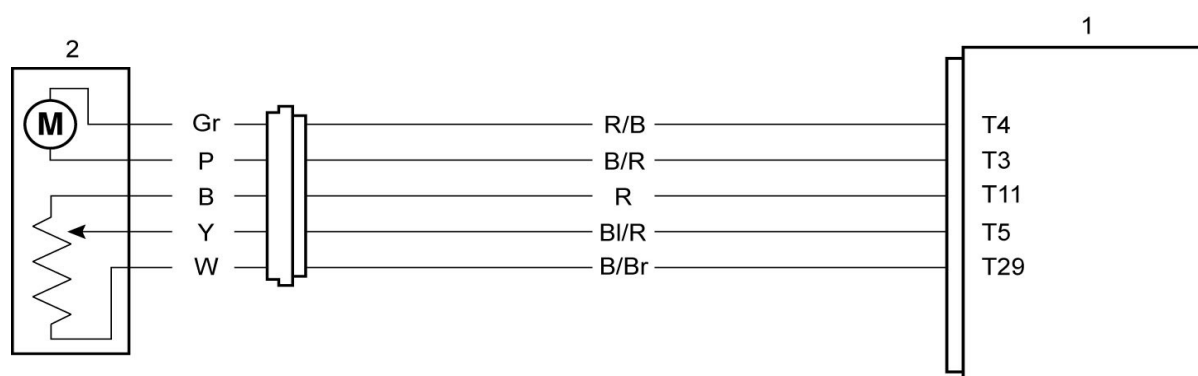
DTC P1658 (C46)

DTC Detecting Condition and Trouble Area

DTC detecting condition	Trouble area
P1658 (C46): EXCVA Motor Circuit Malfunction The operation voltage does not reach the EXCVA motor. EXCVA motor can not operate properly.	<ul style="list-style-type: none">EXCVA malfunctionEXCVA circuitEXCVA motor malfunctionECM



Wiring Diagram

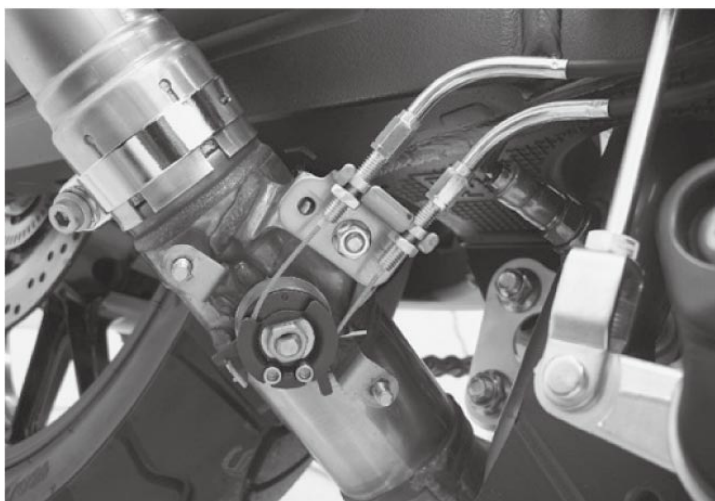
Refer to [FI System Wiring Diagram](#).



1. ECM	2. EXCVA
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Troubleshooting

Step	Action	Yes	No
1	EXCV cable check 1) Turn the ignition switch OFF. 2) Remove the right frame cover.  3) Remove the EXCV cover. Refer to Exhaust Pipe / Muffler Removal . 4) Check the installation of EXCV cables.	Go to Step 2.	Replace or adjust the EXCV cables. 

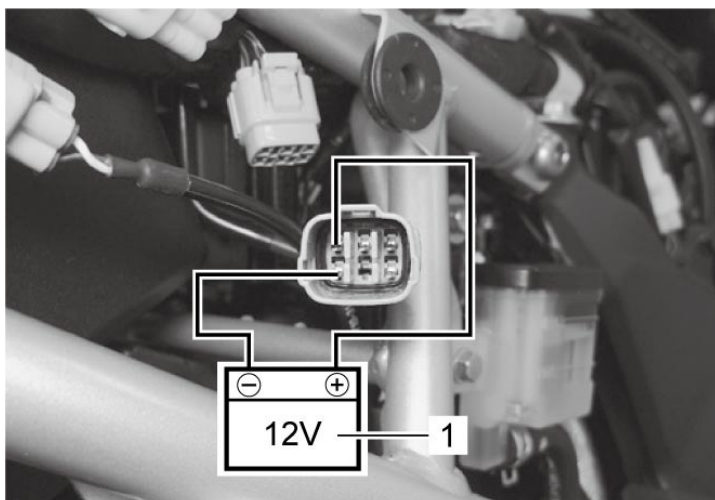


Is the EXCV cables installation OK?

2

EXCVA motor circuit check

- 1) turn the ignition switch OFF.
- 2) Disconnect the EXCVA coupler.
- 3) Apply 12 V to the terminals with a battery (1) and check the operation of EXCV.

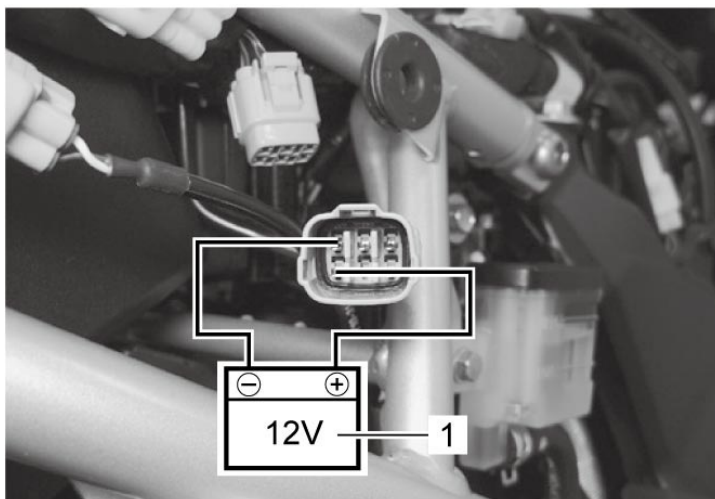


- 4) Then, switch the wires supplied 12 V with a battery (1) and check the operation of EXCV. (Check the operation of EXCVA in both way.)

- Repair or replace the defective wire harness.
- Replace the ECM with a known good one, and inspect it again.

Replace the EXCVA with a new one.





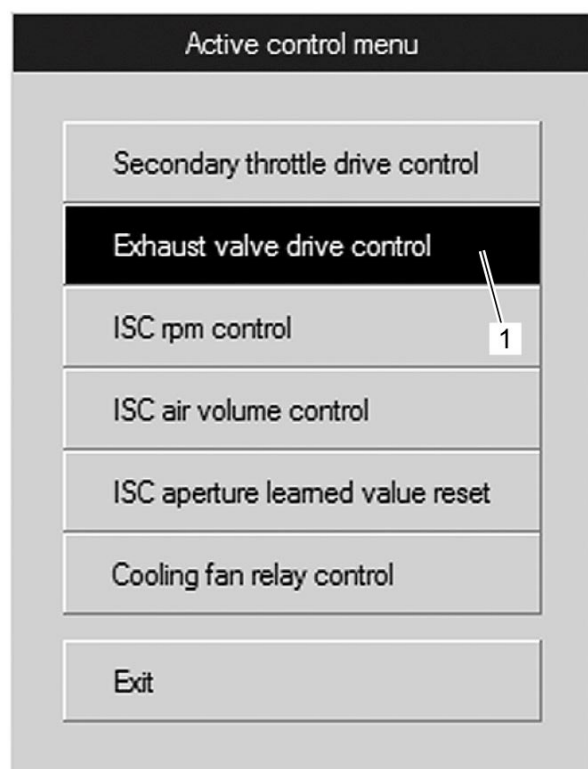
Is the operation OK?

Troubleshooting (Use of Mode Select Switch)

Refer to [DTC P1657-H / P1657-L \(C46\)](#).

Active Control Inspection

- 1) Set up the SDS tool.
- 2) Turn the ignition switch ON.
- 3) Click "Exhaust valve drive control" (1).



- 4) Click each button (1).
At this time, if an operation sound is heard from the EXCVA, the function is normal.

Item	Value	Unit	
<input type="checkbox"/> O2 sensor (Bank 2-Sensor 2)	5.0	V	
<input type="checkbox"/> Secondary throttle actuator position sensor	50	%	
<input type="checkbox"/> Exhaust control valve actuator position sensor	2	%	
<input type="checkbox"/> Cooling fan relay	Off		



Exhaust valve drive control

Command value

Off

Fully open

Fully closed

1

Item	Value	Unit	
<input type="checkbox"/> O2 sensor (Bank 2-Sensor 2)	5.0	V	
<input type="checkbox"/> Secondary throttle actuator position sensor	50	%	
<input type="checkbox"/> Exhaust control valve actuator position sensor	98	%	
<input type="checkbox"/> Cooling fan relay	Off		



Exhaust valve drive control

Command value

Off

Fully open

Fully closed

1

