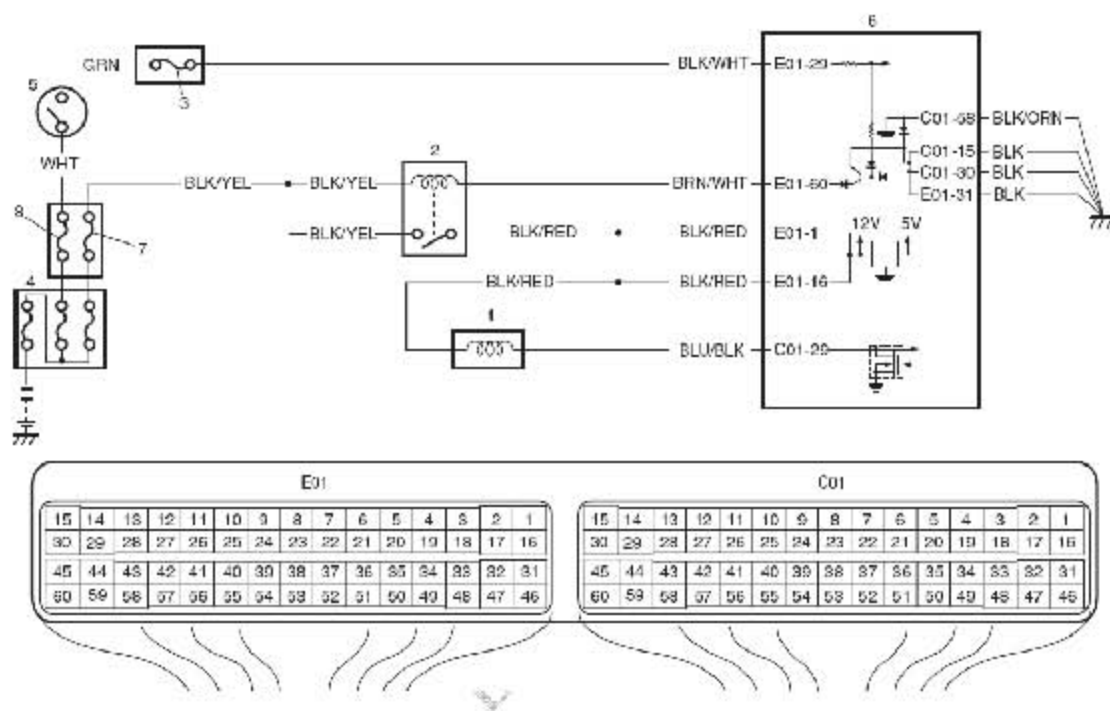


# P0443: Evaporative Emission System Purge Control Valve Circuit

## Wiring Diagram



1. EVAP canister purge valve	3. "IG COIL" fuse	5. Ignition switch	7. "FI" fuse
2. Main relay	4. Main fuse box	6. ECM	8. "IGN" fuse

## DTC Detecting Condition and Trouble Area

DTC detecting condition	Trouble area
Monitor signal of EVAP canister purge valve is different from command signal. (Circuit open or short) (2 driving cycle detection logic)	<ul style="list-style-type: none"> <li>• EVAP canister purge valve</li> <li>• EVAP canister purge valve circuit</li> <li>• ECM</li> </ul>

## DTC Confirmation Procedure

- 1) With ignition switch OFF, connect scan tool to DLC.
- 2) Turn ON ignition switch and clear DTC using scan tool.

- 3) Start engine and warm up normal operating temperature.
- 4) Drive vehicle at more than 40 km/h, 25 mph for 5 min. or more.
- 5) Check DTC and pending DTC.

Step	Action	Yes	No
1	Was "Engine and Emission Control System Check" performed?	Go to Step 2.	Go to "Engine and Emission Control System Check".
2	EVAP canister purge power supply circuit check 1) Turn OFF ignition switch and disconnect connector from EVAP canister purge valve. 2) Measure voltage between engine ground and "BLK/RED" wire terminal of EVAP canister purge valve connector with ignition switch turned ON. Is it voltage 10 – 14 V?	Go to Step 3.	"BLK/RED" wire is open circuit.
3	Wire circuit check 1) Disconnect connectors from ECM with ignition switch turned OFF. 2) Measure resistance between "C01-29" terminal of ECM connector and vehicle body ground. Is resistance infinity?	Go to Step 4.	"BLU/BLK" wire is shorted to ground circuit.
4	Wire circuit check 1) Measure voltage between "C01-29" terminal of ECM connector and vehicle body ground with ignition switch turned ON. Is voltage 0 V?	Go to Step 5.	"BLU/BLK" wire is shorted to other circuit.

Step	Action	Yes	No
5	<p>Wire circuit check</p> <p>1) Connect connector to purge control valve with ignition switch turned OFF.</p> <p>2) Turn ON ignition switch and measure voltage between "C01-29" terminal of ECM connector and vehicle body ground.</p> <p>Is it voltage 10 – 14 V?</p>	Go to Step 6.	"BLU/BLK" wire is open circuit.
6	<p>EVAP canister purge control valve check</p> <p>1) Check EVAP canister purge control valve referring to "EVAP Canister Purge Valve Inspection in Section 1B".</p> <p>Is it in good condition?</p>	Go to Step 7.	Faulty EVAP canister purge control valve.
7	<p>EVAP canister purge control circuit check</p> <p>1) With ignition switch turn OFF, measure resistance between "E01-1/16" terminal and "C01-29" terminal of ECM connector.</p> <p>Is resistance below 34 <math>\Omega</math> at 20 °C, 68 °F?</p>	Faulty ECM. Substitute a known-good ECM and recheck.	"BLK/RED" and/or "BLU/BLK" wire are high resistance circuit.