

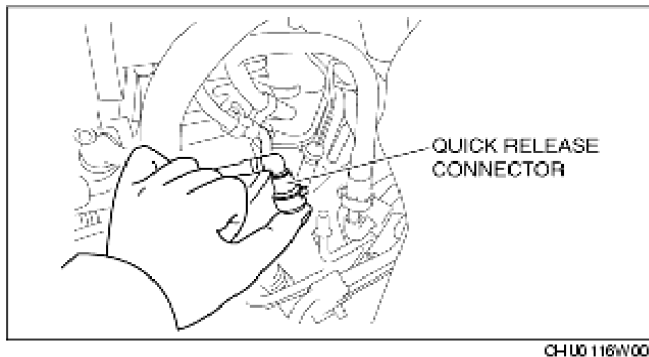
PURGE SOLENOID VALVE INSPECTION

BHE011618740W01

Purge Control Inspection

Without Using WDS or equivalent

1. Warm up the engine and idle it.
2. Turn the ignition switch off.
3. Disconnect the quick release connector going to the charcoal canister from the engine room side. (See [QUICK RELEASE CONNECTOR REMOVAL/INSTALLATION.](#))
4. Start the engine and idle it.
5. After warming up the engine, verify that the vacuum is not present by placing a finger on the quick release connector for **approx. 30 s** as shown in the figure.



- If the vacuum is present, inspect the following:
 - PCM terminal voltage
 - Evaporative purge control
 - Purge solenoid valve
- 6. Verify that the vacuum is present after **approx. 30 s** from the engine starting.
 - If the vacuum is present, inspect the following.
 - PCM terminal voltage
 - Intake air temperature
 - Evaporative purge control
 - Throttle opening angle
 - Load/No load identifying signal
 - Purge solenoid valve

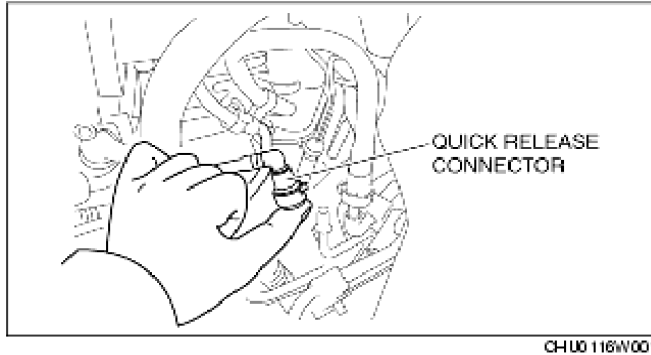
Using WDS or equivalent

1. Warm up the engine and idle it.
2. Turn the ignition switch off.

3. Disconnect the quick release connector going to the charcoal canister from the engine room side. (See [QUICK RELEASE CONNECTOR REMOVAL/INSTALLATION](#).)

4. Start the engine and idle it.

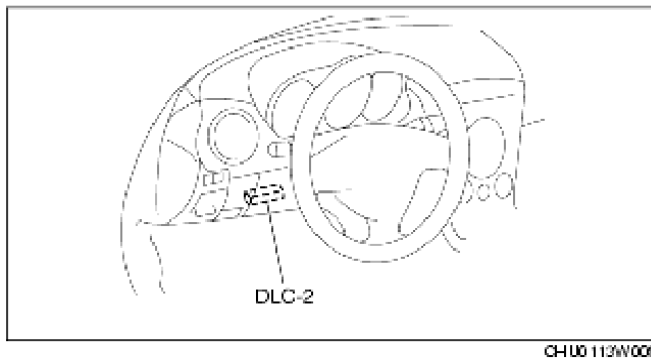
5. After warming up the engine, verify that the vacuum is not present by placing a finger on the quick release connector for **approx. 30 s** as shown in the figure.



- If the vacuum is present, inspect the following:
 - PCM terminal voltage
 - Evaporative purge control
 - Purge solenoid valve

6. Connect the quick release connector.

7. Connect the WDS or equivalent to the DLC-2.

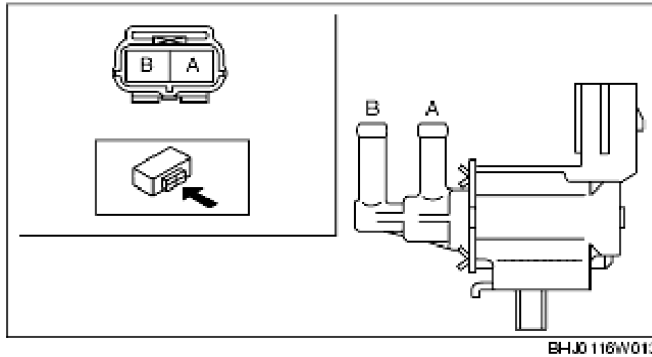


8. When operating the purge solenoid valve of DUTY **0 %** at DUTY **100 %** using simulation function EVAPCP, verify that the engine idles roughly or stops.

- If the idling condition does not change, inspect the following.
 - (1) Turn the ignition switch to the ON position.
 - (2) When operating the purge solenoid valve of DUTY **0 %** at DUTY **50 %** using simulation function EVAPCP, verify that purge solenoid valve can be heard operating.
 - If there is no sound of operation, inspect the following.
 - Vacuum hose: disconnection, damage (extension manifold (upper)-purge solenoid valve-charcoal canister)
 - Wiring harnesses, connectors: open circuit (main relay D terminal-purge solenoid valve-PCM 2P terminal)
 - If there is no sound of operation, inspect the following.
 - Purge solenoid valve

Air flow Inspection

1. Disconnect the negative battery cable. (See [BATTERY REMOVAL/INSTALLATION](#).)
2. Remove the extension manifold. (See [INTAKE-AIR SYSTEM REMOVAL/INSTALLATION](#).)
3. Remove the purge solenoid valve.
4. Inspect air flow between the ports under the following conditions:



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- If there is air flow, inspect the related wiring harnesses.
- If there is no air flow, replace the purge solenoid valve.

Step	Terminal		Port	
	A	B	A	B
1	○	○		
2	B+	Ground	○	○

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