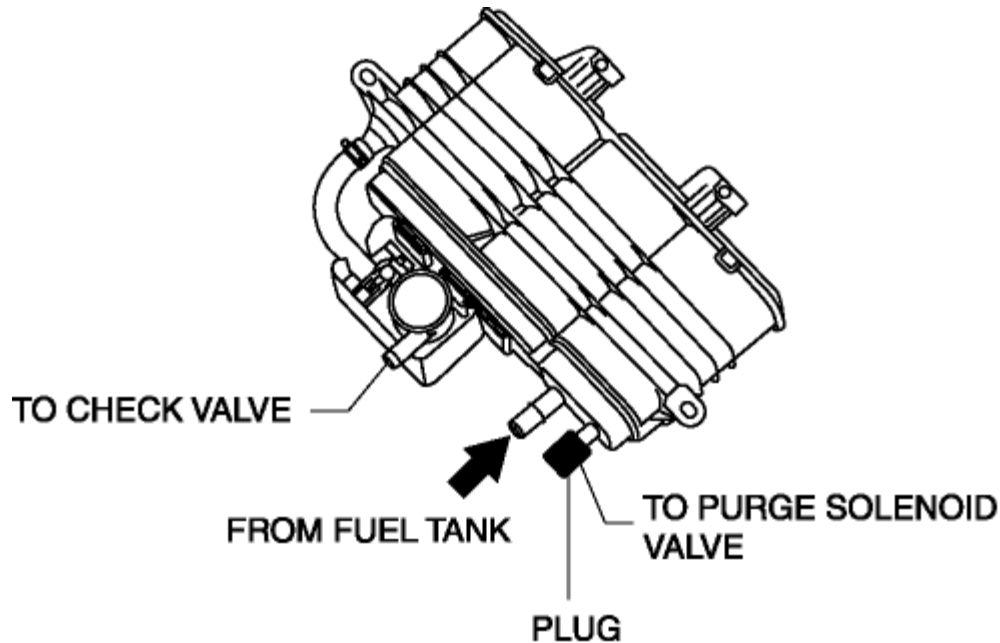


2012 - Mazda6 - Engine

CHARCOAL CANISTER, CANISTER VENT (CV) SOLENOID VALVE, AIR FILTER COMPONENT INSPECTION [MZI 3.7 V6]

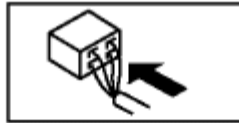
Airflow Inspection

1. Disconnect the negative battery cable. (See [BATTERY REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#) .)
2. Remove the charcoal canister, CV solenoid valve, air filter component. (See [CHARCOAL CANISTER, CANISTER VENT \(CV\) SOLENOID VALVE, AIR FILTER COMPONENT REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#) .)
3. Plug the purge solenoid valve side of the charcoal canister.



4. Pressurizing from the fuel tank side of the charcoal canister, verify that there is no leak from the charcoal canister and that the CV solenoid valve is closed.
 - If malfunction, replace the charcoal canister, CV solenoid valve, air filter component. (See [CHARCOAL CANISTER, CANISTER VENT \(CV\) SOLENOID VALVE, AIR FILTER COMPONENT REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#) .)
5. Connect the battery positive voltage to CV solenoid valve terminal A.

CV SOLENOID VALVE WIRING HARNESS-SIDE CONNECTOR



6. Pressurizing from the fuel tank side of the charcoal canister, verify that the CV solenoid valve is open and that there is airflow through the air filter.

- If malfunction, replace the charcoal canister, CV solenoid valve, air filter component. (See **CHARCOAL CANISTER, CANISTER VENT (CV) SOLENOID VALVE, AIR FILTER COMPONENT REMOVAL/ INSTALLATION [MZI 3.7 V6] .**)

7. Pressurizing from the air filter side, verify that the CV solenoid valve is open and that there is airflow through the air filter.

- If malfunction, replace the charcoal canister, CV solenoid valve, air filter component. (See **CHARCOAL CANISTER, CANISTER VENT (CV) SOLENOID VALVE, AIR FILTER COMPONENT REMOVAL/ INSTALLATION [MZI 3.7 V6] .**)

[< Previous](#) [Next >](#)

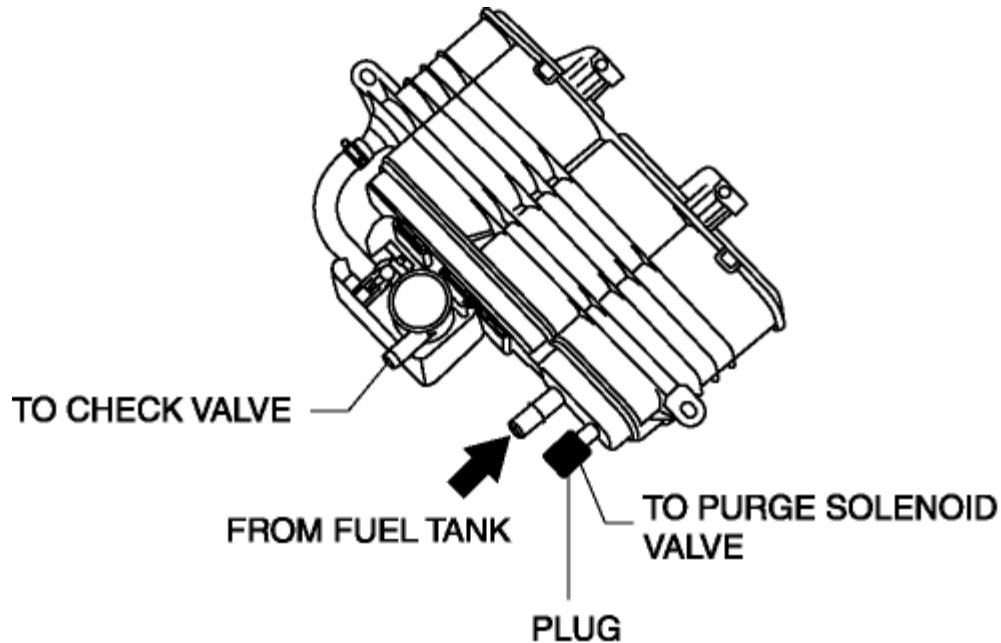
[Back to Top](#)

2012 - Mazda6 - Engine

CHARCOAL CANISTER, CANISTER VENT (CV) SOLENOID VALVE, AIR FILTER COMPONENT INSPECTION [MZI 3.7 V6]

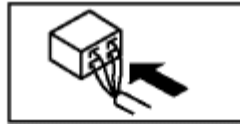
Airflow Inspection

1. Disconnect the negative battery cable. (See [BATTERY REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#) .)
2. Remove the charcoal canister, CV solenoid valve, air filter component. (See [CHARCOAL CANISTER, CANISTER VENT \(CV\) SOLENOID VALVE, AIR FILTER COMPONENT REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#) .)
3. Plug the purge solenoid valve side of the charcoal canister.



4. Pressurizing from the fuel tank side of the charcoal canister, verify that there is no leak from the charcoal canister and that the CV solenoid valve is closed.
 - If malfunction, replace the charcoal canister, CV solenoid valve, air filter component. (See [CHARCOAL CANISTER, CANISTER VENT \(CV\) SOLENOID VALVE, AIR FILTER COMPONENT REMOVAL/ INSTALLATION \[MZI 3.7 V6\]](#) .)
5. Connect the battery positive voltage to CV solenoid valve terminal A.

CV SOLENOID VALVE WIRING HARNESS-SIDE CONNECTOR



6. Pressurizing from the fuel tank side of the charcoal canister, verify that the CV solenoid valve is open and that there is airflow through the air filter.

- If malfunction, replace the charcoal canister, CV solenoid valve, air filter component. (See **CHARCOAL CANISTER, CANISTER VENT (CV) SOLENOID VALVE, AIR FILTER COMPONENT REMOVAL/ INSTALLATION [MZI 3.7 V6] .**)

7. Pressurizing from the air filter side, verify that the CV solenoid valve is open and that there is airflow through the air filter.

- If malfunction, replace the charcoal canister, CV solenoid valve, air filter component. (See **CHARCOAL CANISTER, CANISTER VENT (CV) SOLENOID VALVE, AIR FILTER COMPONENT REMOVAL/ INSTALLATION [MZI 3.7 V6] .**)

[< Previous](#) [Next >](#)

[Back to Top](#)