Component Procedures: Vacuum Check Valve HVAC

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Component Procedures: Vacuum Check Valve HVAC

Components (itype_392)

SYSTEM DESCRIPTION
A
vacuum check valve
is installed in the accessory vacuum supply line in the engine compartment, near the vacuum tap on the engine intake manifold. The vacuum check valve is designed to allow vacuum to flow in only one direction through the accessory vacuum supply circuits.
The use of a vacuum check valve helps to maintain the system vacuum needed to retain the selected heater-A/C mode settings. The check valve will prevent the engine from bleeding down system vacuum through the intake manifold during extended heavy engine load (low engine vacuum) operation.
The vacuum check valve cannot be repaired and, if faulty or damaged, it must be replaced.

Components (itype_32)

A
vacuum check valve
is installed in the accessory vacuum supply line in the engine compartment, near the vacuum tap on the engine intake manifold.

Procedures (itype_376)

REMOVAL
1. Unplug the heater-A/C vacuum supply line connector at the
vacuum check valve
near the engine intake manifold vacuum adapter fitting.
2. Note the orientation of the check valve in the vacuum supply line for correct reinstallation.
3. Unplug the vacuum check valve from the vacuum supply line fittings.
4. Reverse the removal procedures to install.

Component Tests and General Diagnostics (itype_383)

1. Remove the
vacuum check valve
. The valve is located in the (black) vacuum supply tube at the intake manifold vacuum tap.
2. Connect the test set vacuum supply hose to the heater-A/C system (natural color) side of the valve. When connected to this side of the check valve, no vacuum should pass and the test set gauge should return to the 27 kPa (8 in. Hg.)
setting. If OK, go to Step 3. If not OK, replace the faulty valve.
3. Connect the test set vacuum supply hose to the engine vacuum (black color) side of the valve. When connected to this side of the check valve, vacuum should flow through the valve without restriction. If not OK, replace the faulty valve.