



11. Update the VSA modulator-control unit if it does not have the latest software (see page 19-135). If the unit already has the latest software, substitute a known-good VSA modulator-control unit (see page 19-136).

12. Test-drive the vehicle.

NOTE: Drive the vehicle on the road, not on a lift.

13. Check for DTCs with the HDS.

Is DTC 108-21 indicated?

YES—Check for loose terminals in the VSA modulator-control unit 36P connector. If the VSA modulator-control unit was updated, substitute a known-good VSA modulator-control unit (see page 19-136), then retest. If the VSA modulator-control unit was substituted, go to step 1.

NO—If the VSA modulator-control unit was updated, troubleshooting is complete. If the VSA modulator-control unit was substituted, replace the original VSA modulator-control unit (see page 19-136). If any other DTCs are indicated, go to the indicated DTCs troubleshooting. ■

DTC 121-xx*: VSA Solenoid Valve Malfunction

DTC 122-xx*: VSA Solenoid Valve Malfunction

DTC 123-xx*: VSA Solenoid Valve Malfunction

DTC 124-xx*: VSA Solenoid Valve Malfunction

*: Any two-character subcode (see table)

DTC	Sectional	Valve	
121	Right-front and left-rear	Regulator	
			-01
			-02
			-11
			-21
122	Right-front and left-rear	Suction	
			-24
			-01
			-21
123	Left-front and right-rear	Regulator	
			-22
			-23
			-01
			-02
124	Left-front and right-rear	Suction	
			-11
			-21
			-24
			-01

1. Turn the ignition switch to ON (II).
2. Clear the DTC with the HDS.
3. Turn the ignition switch to LOCK (0), then turn it to ON (II) again.
4. Check for DTCs with the HDS.

Is DTC 121-xx, 122-xx, 123-xx, or 124-xx indicated?

YES—Go to step 5.

NO—Intermittent failure, the system is OK at this time. ■

(cont'd)

VSA System Components

DTC Troubleshooting (cont'd)

5. Update the VSA modulator-control unit if it does not have the latest software (see page 19-135). If the unit already has the latest software, substitute a known-good VSA modulator-control unit (see page 19-136).
6. Turn the ignition switch to LOCK (0), then turn it to ON (II) again.
7. Check for DTCs with the HDS.

Is DTC 121-xx, 122-xx, 123-xx, or 124-xx indicated?

YES—Check for loose terminals in the VSA modulator-control unit 36P connector. If the VSA modulator-control unit was updated, substitute a known-good VSA modulator-control unit (see page 19-136), then retest. If the VSA modulator-control unit was substituted, go to step 1.

NO—if the VSA modulator-control unit was updated, troubleshooting is complete. If the VSA modulator-control unit was substituted, replace the original VSA modulator-control unit (see page 19-136). If any other DTCs are indicated, go to the indicated DTCs troubleshooting. ■

Symptom Troubleshooting

VSA activation indicator does not go off, and no DTCs are stored

NOTE: If the VSA modulator was replaced prior to the activation indicator turning on, do the VSA sensor neutral position memorization (see page 19-133).

1. Turn the ignition switch to ON (II).
2. Check the VSA activation indicator for several seconds when the ignition switch is turned to ON (II).

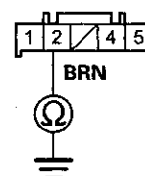
Does the indicator come on then go off?

YES—The system is OK at this time. ■

NO—Go to step 3.

3. Turn the ignition switch to LOCK (0).
4. Disconnect the VSA OFF switch 5P connector (see page 19-134).
5. Check the VSA OFF switch (see page 19-134).
Is the VSA OFF switch OK?
YES—Go to step 6.
NO—Replace the VSA OFF switch (see page 19-134). ■
6. Disconnect the gauge control module 32P connector (see page 22-351).
7. Check for continuity between VSA OFF switch 5P connector terminal No. 2 and body ground.

VSA OFF SWITCH 5P CONNECTOR



Wire side of female terminals

Is there continuity?

YES—Repair a short to body ground in the wire between the gauge control module and the VSA OFF switch. ■

NO—Substitute a known-good gauge control module (see page 22-351), then go to step 1 and recheck. If it is OK, replace the original gauge control module (see page 22-351). ■