Reaction Fuel System Cleaner

Installation Instructions For use with REACTION 1425 Vacuum Applicator

**R100 is compatible with all vacuum and pressurized fuel system cleaning applicators. Please follow the instructions for the tool you are using.*

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Note: The service procedure will have greater results if the vehicle's engine is warm before starting the procedure. Please read complete instructions before starting the procedure.

Before Performing Procedure:

- ***Check Engine Oil***
- ***Perform a visual inspection of the vehicle for fluid leakage.***
- ***Perform a visual inspection for possible signs of overheating. Low Coolant Level, Weeping Radiator, Bulging or Leaking Radiator and Heater Hoses, Loose Clamps, Etc.***
- ***Verify adequate ventilation.***
- ***Verify that the vehicle is not making any underhood noises such as knocking or rapping.***

Procedure 1—Throttle Body Cleaning with R110 Throttle Body Cleaner

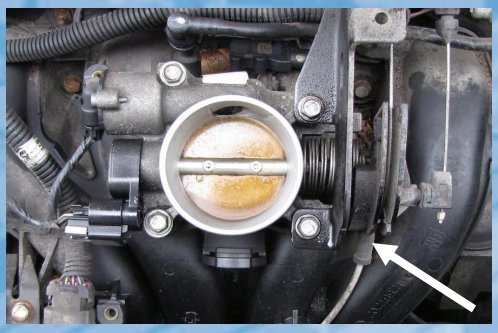
1. With engine off, disconnect air intake ducting at the throttle body. If the mass airflow sensor is located in the throttle body, you will see a screen in front of the throttle plate. If the mass airflow sensor is located in the throttle body, do not clean the throttle body. Skip to Procedure 2.
2. Spray R110 liberally into the throat of the throttle body. If the vehicle is drive by wire, follow the manufacturer's recommended procedure for opening the throttle plate. If the throttle is mechanically activated, the throttle may be opened by hand. Allow the cleaner to soak for 2-3 minutes. Reapply as necessary to complete cleaning. A soft rag may be used to aid in cleaning. A wire brush is not recommended to prevent damage to coated throttle body parts.

R110 Throttle Body Cleaner is sensor and teflon safe.

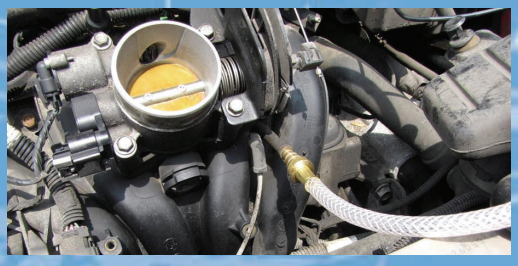
3. Reconnect any removed air intake ducting.
4. Caution: Keep all loose articles away from moving parts.
5. Start engine to clear any excess cleaner from the intake manifold.

Procedure 2—Fuel Induction Service with R100 Fuel System Cleaner

1. Hang the R1425 Vacuum Applicator from a convenient spot on the underside of the hood.
2. Locate a vacuum port as close as possible to, but downstream of the throttle plate.



Vacuum ports upstream of the throttle plate will not produce a vacuum when the engine is idling. Most vehicles are equipped with a manifold pressure sensor and a fuel pressure regulator that are supplied with manifold vacuum; do not use these vacuum sources. **The PCV And Power Brake Booster vacuum sources are often the easiest source to use.** If you have chosen to use the Power Brake vacuum source to perform this service, check the vacuum line from the brake booster for any in-line check valves or filters. If there are no in-line valves or filters, hook applicator to brake vacuum source. If there are check valves or filters in the vacuum line, attach a temporary hose to the intake manifold and connect the R1425 Vacuum Applicator to the temporary hose. Make sure the cone is pointed at the vacuum source.



3. Attach the bottle of R100 Fuel System Cleaner to the R1425 Vacuum Applicator.
4. Make sure the applicator hose is clear of all fan blades and moving parts.

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5. Make sure the applicator metering valve is closed.
6. Make sure air conditioning and all accessories are turned off.
7. Set Parking Brake, start and idle engine.
8. Adjust the R1425 applicator metering valve to get a steady drip to a small stream of chemical. This part of the procedure should take from 15 to 45 minutes. Adjust accordingly.
9. During the idle application, occasionally raise engine speed to 2000 RPM for 30 seconds to clear any excess chemical from collecting in low spots in the intake manifold.
10. Let the engine run until the applicator is empty. Turn off engine.
11. Un-hook applicator and reassemble all removed parts and the unhooked vacuum source.
12. Start vehicle and make sure the brake pedal is proper after having the vacuum hose off.
13. Immediately drive the vehicle for a few miles.

Notice: During and After Installation: White Smoke is normal from the exhaust for a few miles. This should clean up during a normal road test.

Procedure 3—Fuel System Cleaning with ET100 Fuel System Cleaner

1. Add one bottle of R100 Fuel System Cleaner to the fuel tank. If product gets on vehicle, wipe away immediately. There is no minimum amount of fuel required to be in the tank when adding the product.
2. Make sure fuel filler cap is tight. A loose fuel cap can cause false trouble codes.

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Cleaning Procedures 1 & 2 should be performed every 12,000 miles. At 6,000 mile intervals, add one bottle of R100