

# DIESEL-FUEL SERVICE

## Tools Needed

Diesel-Fuel Injector Machine #72220

## Products Needed

SOLTEC™ 2-pack Diesel Kit #35102 which includes:

- ▶ SOLTEC™ Diesel Flush #36101
- ▶ SOLTEC™ Premium Diesel Treatment #36001



#72220



#35102

## Vehicle Preparation

Verify that the vehicle's oil and coolant are at proper levels before beginning service and that the engine is at normal operating temperature. For best results, the vehicle's fuel filters should be changed prior to service. Position a drip pan or tray beneath the vehicle to catch any fuel that may spill during the connection procedure.

## Fuel Pressure Notice:

Vehicles may operate slightly above or below recommended pressures. Vehicles may require an adjustment to the pressure level in order to idle smoothly. **You must determine the proper fuel pressure by consulting your shop manual for correct operating pressure.**

**NOTE: If the system develops a leak at any time during the service, IMMEDIATELY STOP and make all necessary repairs before resuming cleaning operation.**

## Important Note:

This operation must be performed before the first service or if the machine has run completely out of fluid.

1. Connect the red and black service hoses together using the primer adapter (*see Figure A*).
2. Connect the power supply cable clamps to a 12 volt auto battery or approved 12 volt power supply (do not use a battery charger or booster), verify that the green power light is on.
3. Remove cap from fluid reservoir, add the entire bottle of SOLTEC™ Diesel Flush #36101 and replace cap (this step may require more than one bottle).



*Figure A*

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## *Important Note (continued)*

4. Set service timer at 5 minutes.
  - a. Set the primer pump switch and the timer/alarm switch to the "ON" position (*see Figure B*).
  - b. The the pump will now circulate fresh solution through the unit's system and purge it of any trapped air or contaminants.
  - c. Allow pump to operate approximately 30–40 seconds, until the lines are purged; turn timer knob back to zero.
  - d. Return the primer pump switch and the timer/alarm switch to the "OFF" position and disconnect both service hoses from the primer adapter.



**Figure B**

## *Step 1*

Locate an access point to the fuel supply and return lines (between the fuel tank and the fuel injector pump), otherwise known as the low pressure side of the fuel system (*see Figure C*).

### *Caution:*

**Accessing the fuel system after the fuel injector pump will expose the equipment to excessive pressure that can damage the equipment or vehicle's fuel system.**



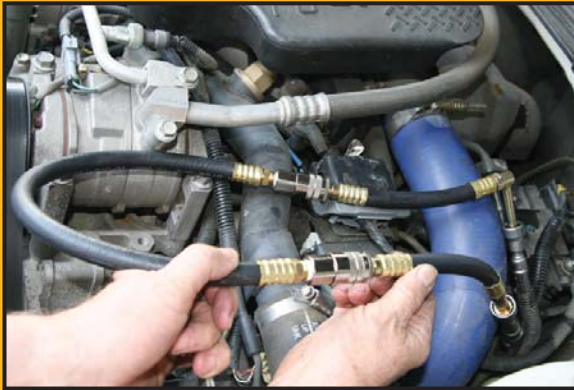
**Figure C**

## *Step 2*

Select the appropriate fuel line adapters for the specific vehicle and connection type. Disconnect the supply and return lines and install the appropriate adapters on the lines leading to the vehicle's fuel tank. These adapters should now be connected together using the tank-to-tank loop adapter (*see Figure D*). Install the appropriate adapters on the lines leading to the vehicle's fuel injector pump (*see Figure E*). Connect the red service hose from the **Diesel-Fuel Injector Machine #72220** to the adapter on the supply line (*see Figure F*). Connect the black service hose to the adapter on the return line leading to the vehicle's fuel injector pump\* (*see Figure G*).

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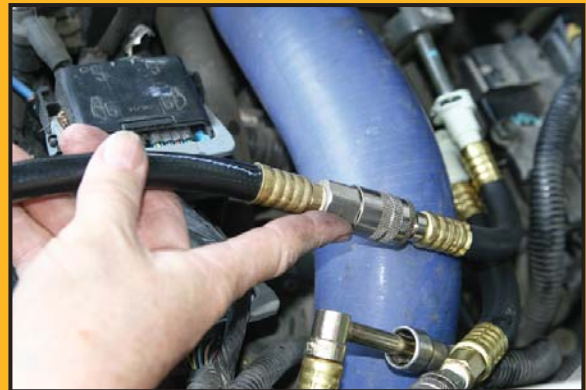
*Figure D*



*Figure E*



*Figure F*



*Figure G*

## *\*Warning*

Use extreme caution to ensure that the adapters and service hoses are **never** connected to the fuel lines on the “**engine side**”, or “**after**” the vehicle’s fuel injector pump. The connection should always be “**before**,” or on the “**fuel tank side**” of the injector pump. Failure to comply may result in severe personal injury and damage to the **injector cleaning machine**, vehicle, and surrounding property.

**NOTE: Should the engine run dry, follow the vehicle’s service manual for instructions on “Re-priming” the fuel System.**

## *Step 3*

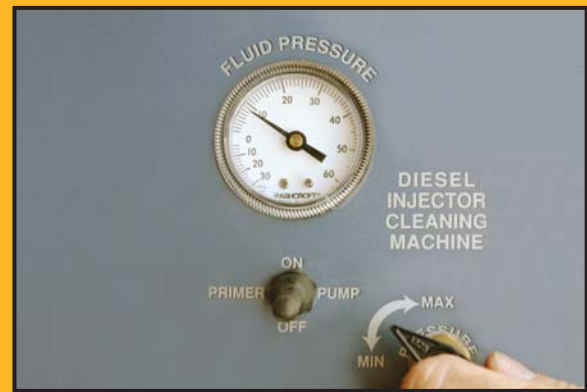
Set service timer to appropriate cleaning cycle period, typically 10 to 15 minutes. Set the primer pump switch and the timer/alarm switch to the “ON” position (*see Figure H*). Start the vehicle’s engine and run at idle (the primer pump may now be switched “OFF”). Adjust the pressure regulator as needed for a smooth idle (*see Figure I*). Observe the fluid level in the machine’s reservoir tank closely during service. Additional solution should be added to the reservoir as needed to prevent the vehicle from running “dry” prior to the end of service.

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*Figure H*



*Figure I*

## Step 4

When the alarm sounds at the end of the cleaning cycle, immediately turn the engine off. Set the timer/alarm switch to the "OFF" position. Disconnect the cable clamps from the battery, and store the power cord on the cord hanger. Disconnect both service hoses, and store on the hose hanger. Remove all the adapters and reconnect the fuel lines in their original locations. Start the vehicle's engine and run it at idle for 2-3 minutes to clear any air in the fuel lines. Recheck all the fuel lines and connections for leaks.

## Step 5

Install **SOLTEC™ Premium Diesel Treatment #36001** into the fuel tank.

