

# DIESEL FUEL SYSTEM CONTAMINATION

**注意:** Fuel system damage that was caused by incorrect or contaminated fuel that was introduced into the fuel system by the customer is not covered under warranty.

## IF THE ENGINE WAS NOT STARTED AFTER INCORRECT OR CONTAMINATED FUEL WAS USED DURING REFUELING

If the fuel system has been contaminated (with gasoline, water, etc.) AND the engine WAS NOT STARTED, the following procedure must be followed:

1. Remove all fuel from the fuel tank. ([Refer to 14 - Fuel System/Fuel Delivery - Standard Procedure](#)) Use an appropriate fuel container. Dispose of the contaminated fuel using the proper procedures.

**小心:** Dispose of petroleum based products in a manner consistent with all applicable Local, State, Federal, and Provincial regulations.

2. Remove the fuel tank. ([Refer to 14 - Fuel System/Fuel Delivery/TANK, Fuel - Removal](#))
3. Ensure the swirl pot indentation below the in the fuel tank electric fuel pump inlet is completely drained of any contaminated fuel.
4. Completely drain the low pressure fuel lines, and install a new fuel filter.
5. Install the fuel tank, and fill with clean diesel fuel.
6. Road test the vehicle to verify normal operation.

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4. Completely drain the low pressure fuel lines, and install a new fuel filter.
5. Install the fuel tank, and fill with clean diesel fuel.
6. Detach the low pressure line at the T-Fitting orifice between the fuel injector low pressure return lines and the fuel filter
7. Connect a clean hose to the T-Fitting orifice, and place the other end in a suitable clean container.
8. Turn the ignition ON, and collect the fuel escaping from the T-Fitting orifice in a clean container. Check the fuel sample for metal chips, dirt, or other foreign matter.

9. If any dirt or metal chips are present in the fuel sample, completely clean the high pressure side of the fuel injection system, then install new the fuel injectors, and the high pressure fuel pump.
10. If there are no metal chips or dirt present in the fuel sample, the fuel system is ok. Reconnect the T-Fitting orifice, and road test the vehicle to verify normal operation.

## BLEEDING AIR FROM FUEL SYSTEM

**警告:** No sparks, open flames or smoking. Risk of poisoning from inhaling and swallowing fuel. Risk of injury to eyes and skin from contact with fuel. Pour fuels only into suitable and appropriately marked containers. Wear protective clothing.

**警告:** This procedure can be used on the XH, WH and WK, but the LE does not have a water separator.

1. Turn the ignition off.
2. Remove the engine cover.
3. Connect a hose to the fuel filter water drain (2) and insert the other end of the hose into an OSHA approved and appropriately marked container.
4. Turn the water drain counterclockwise to bleed air.

**小心:** Turning the ignition to the on position will engage the in tank fuel pump. Be sure that the bleed hose and the fuel capture container is secure.

5. Turn the ignition to the on position and observe the container until fuel flows free of bubbles.
6. Turn the ignition off.
7. Tighten the water drain valve on the fuel filter.
8. Remove the bleed hose and container.
9. Install the engine cover.

## DRAINING FUEL TANK - DIESEL

A one-way check valve is located within the fuel fill fitting on the fuel tank. Because of this valve, the tank cannot be drained the conventional way through the fuel fill opening.

To drain the tank, the fuel pump module must be removed.

1. Release the fuel system pressure ([Refer to 14 - Fuel System/Fuel Delivery - Standard Procedure](#))
2. Partially drain the fuel tank
3. Remove fuel pump module ([Refer to 14 - Fuel System/Fuel Delivery/MODULE, Fuel Pump - Removal](#))
4. After fuel pump module has been removed, drain fuel into an approved diesel fuel oil draining station.