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## **Winn Fuel System**

Originally known as the Winn Fuel System, the system is located in the rear engine compartment of the diesel coach. The Winn and Racor Fuel Systems are similar in function and design. Racor acquired the Winn Fuel System and now provides replacement filters. The system is designed to filter particles out of the fuel system, provide a means to filter water from the fuel and through a small electric pump will prime the fuel system when it gets air. One specific time this occurs is when the fuel filters are changed. The ability to prime the fuel system with the Winn system eliminates the need to excessively crank the engine to prime the fuel system after air enters the fuel system. The system consists of a canister type fuel filter, similar to an oil filter, a clear fuel bowl, a small control panel mounted near the fuel system and a small electric fuel pump.

Water is heavier than fuel and will collect at the bottom of the filter housing. Located in the bottom of the fuel filter is a sensor that will illuminate the Water in Fuel light at the dash when water is detected at the bottom of the fuel filter. If the Water in Fuel light illuminates, check the fuel system as soon as safely possible. Examine the fuel filter control panel in the engine compartment to see if the H<sub>2</sub>O light is illuminated. If illuminated, the system will need to be purged of water by pressing the H<sub>2</sub>O Purge button on the control panel. The pump will cycle to evacuate excess water from the fuel into the plastic catch bag or plastic bottle located below the filter system. Be sure the tainted water runs directly into the catch bag and not onto the ground.

To engage the fuel prime feature, place the ignition key in the On position. At the engine compartment control panel, press the Air Purge button to activate the internal pump. Once engaged, the internal pump operates for approximately sixty seconds to draw fuel from the fuel tank, move it through the fuel water separator and the injection system to force trapped air into the tank return line. The priming function can be reactivated several times if required. Look at the clear filter to determine when air has been purged from the system and the fuel filter is partially filled when the pump stops.

Protect the engine compartment control panel from water contact. When cleaning the engine compartment, avoid spraying the control panel with water. On occasion, moisture may get into the wiring and trip the Water in Fuel light at the dash. If there is no water in the fuel filter, the warning light should go out when the wiring has dried.

When changing the primary fuel filter, turn the thumbscrew located on top of the filter counterclockwise and remove the screw. Pull up the filter and remove it from the top of the housing. Two O-rings are installed on the plastic fuel filter - one on the top and one on the bottom. The new replacement filter may also include new O-rings. Prior to reinstalling the O-rings, lubricate the surfaces using fuel or Vaseline. When reinstalling the filter, use caution to avoid over-tightening the thumbscrew. Resetting the thumbscrew too tight can prevent a seal and create an air leak within the fuel system.

For more technical assistance contact Racor Fuel Systems technical support at (800) 344-3286 or an authorized Racor dealer.

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