

## RV218999 EVANS TEMPCON SERVICE REPLACEMENT VALVE INSTALLATION GUIDELINES



Kit Contents:

Electric Water Valve Jumper Harness Mounting Screws (4 ea.

This Evans' service replacement

valve package is intended to replace the **old** version of the electric water valve in all Evans systems that have the style of valve shown below. Evans currently has two variations of this valve in use with the consumer. The jumper harness in this kit allows the new valve to work with the mating harness for the older version.



There are two types of actuators on the valves that Evans supplies as shown in the illustration above. The significant difference in the valves is the arrangement of the terminals in the connector housing on the actuator. Old style valves have a distinct "T" pattern as shown on the left and the manufacturer's logo "Seitz" on the actuator, while the new valves have the terminals located in the four corner positions of the connector housing, as seen on the right, and the actuator manufacturer's logo "CEI" on the cover. All replacement valves supplied in RV218999 packages are the new style of valve intended for service replacement of the old style valve if they fail to operate. If replacing a new valve, you should order the valve part number RV218967 without the jumper harness or additional bolts.

Installation:

## CAUTION:

## The engine should be cold and the vehicle turned off before attempting to remove and replace the water valve assembly. Opening coolant lines on systems that are hot can result in burns and/or serious injury due to extremely hot coolant escaping under pressure.

To replace your existing valve, first install clamping devices on the coolant lines before and after the valve to prevent coolant loss during the valve change. Unplug the wire harness from the valve and loosen the clamps securing the heater hoses to the valve. If necessary, unbolt the valve assembly from any mounting bracket that may be used. Place a small catch basin or shop clothes beneath the valve assembly to catch any coolant that escapes from the hoses then pull the hoses loose from the valve assembly.

Install the new valve onto the coolant lines and mounting bracket (if applicable) with the screws provided in the replacement kit. The original nuts may be reused. If your valve is free floating on the coolant lines, secure the valve assembly with wire ties after plumbing the valve. Connect the coolant lines to the valve ports and tighten the clamps securely. Be sure the coolant supply line is connected to the inlet (red tape) side of the valve. If reversed the valve will leak and eventually be damaged.

Inspect the main harness valve connector to ensure the correct valve was previously installed on the vehicle. The connector pattern should have three wires in a straight line for the old style valve (on left below), not a 3 corner or 'L' pattern for the new valve (on right below). Plug the mating connector on the jumper harness into the valve connector on the main harness.



Note: If the main harness connector is the 3 corner pattern shown at left in the illustration, then <u>do not</u> use the jumper provided in the kit. Plug the harness directly into the new valve.

Plug the connector from the jumper harness into the valve connector socket. Be sure to push the connector straight into the socket and do not rock the connector as it is

inserted as this could cause the pins in the connector to become bent or misaligned.

Start the vehicle and rotate the temperature control dial to the open (red) position. Check the valve installation for any signs of leakage; tighten the hose clamps if necessary. Once the engine has warmed up and heated air is being discharged from the louver openings, rotate the temperature dial to the closed (blue) position. Monitor the discharge air temperature to ensure the valve has closed. Turn the dial to full heat and again monitor the discharge air to ensure the air is heating up.