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SERVICE BULLETIN

032106

DATE: March 21, 2006

TO: OEM Parts and Service Departments, Evans Authorized Service Centers

SUBJECT: New Electronic Water Valve

Evans Tempcon, Inc is in the final stages of introducing a new electric water valve assembly and matching new electrical harness to all of our customers' production facilities. While this change was made for primarily economic considerations, the new valve does provide increased temperature control and added durability features. **The two valve assemblies are not directly interchangeable. The attached instruction sheets provide a positive means of identifying the two valves. Be aware that the individual electrical connectors will fit into either style valve assembly but will not work if incorrectly matched.**

Due to supply issues with the old supplier, we will soon be providing replacement parts for the old RV218812 with the new RV218999 package. This package will consist of a new valve, a jumper harness to connect the old harness to the new valve, and (4) new bolts to remount if required. **There is no jumper harness to connect an old valve to a new harness. The service package part number for the new style valve is RV218967.** It will contain the valve only.

To aid in identification, Evans will provide where available, the approximate date or unit number for the change. Some production units were manufactured during the transition with new valves, a jumper harness and the old electrical connector. These units would use the new valve package and the existing jumper harness if a replacement is needed.

Contact your Evans Tempcon Service Representative or Evans Technical Service for assistance.

PLEASE DISTRIBUTE THIS BULLETIN TO ALL YOUR DEALERS AND SERVICE FACILITIES.



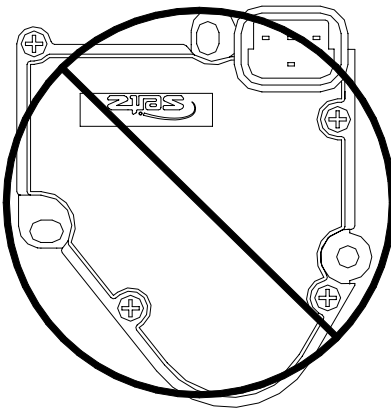
RV218967 EVANS TEMPCON SERVICE REPLACEMENT VALVE INSTALLATION GUIDELINES

Kit Contents: Electric Water Valve

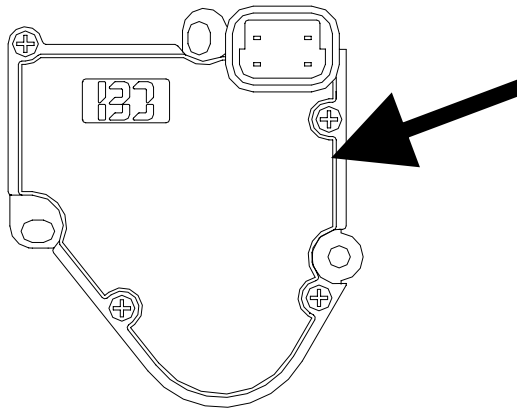


This Evans' service replacement valve package is intended to replace the **new** version of the electric water valve in all Evans systems that have the style of valve shown below. Evans currently has two variations of this valve in use with the consumer.

OLD



NEW



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 RV218967 packages are the new style of valve intended for service replacement of the new style valve if they fail to operate. If replacing an old style valve, you should order the valve part number RV218999 with the jumper harness or additional bolts.

Installation:

CAUTION:

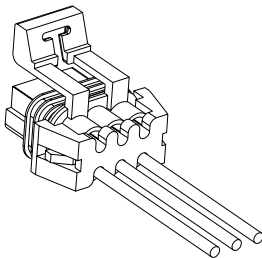
The engine should be cold and the vehicle turned off before attempting to remove and replace the water valve assembly. Opening coolant lines on systems that are hot can result in burns and/or serious injury due to extremely hot coolant escaping under pressure.

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.

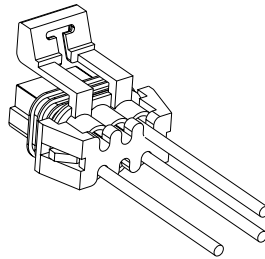
Install the new valve onto the coolant lines and mounting bracket (if applicable). The original hardware may be reused. If your valve is free floating on the coolant lines, secure the valve assembly with wire ties after plumbing the valve. Connect the coolant lines to the valve ports and tighten the clamps securely. **Be sure the coolant supply line is connected to the inlet (red tap) 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 three corners or 'L' pattern for the new valve (on right below).

OLD



NEW



Note: If the main harness connector is the 3 corner pattern shown at left in the illustration, then plug the harness directly into the new valve.

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.



QUICK TIPS FOR IDENTIFICATION OF EVANS TEMPCON BASIC PARTS/COMPONENTS

WATER VALVES:

RV218520 (NWMR #04219):

MECHANICAL WATER VALVE – for use with boden cables

RV212545:

ELECTRONIC WATER VALVE – MRF: RANCO – TAG READS: H47L1000/1100

***used in production until middle of 2002. Still available for service. It is NOT replaced by anything else.

RV218812 (NWMR #04471):

ELECTRONIC WATER VALVE – MFR: SEITZ-TAG READS: H44C-5410-000

– replaced by **RV218999 (NWMR #010285)** in 2006

RV218967 (NWMR #010286):

ELECTRONIC WATER VALVE-MRF: CEI – TAG READS H44M-6001-000/RV012267. Began production use approximately April 2006

COLD CONTROL (located on base unit) = RV212093 (NWMR #03789) – only one ever used with Evans HVAC systems

EXPANSION VALVE = RV011154 = RV218310 (NWMR #03949) – only one ever used with Evans HVAC systems

KNOBS:

BLOWER KNOB: RV218470 (NWMR #02266) - all

TEMPERATURE KNOB: RV218471 (NWMR #02267) (if have a mechanical water valve-uses boden cable)

RV218472 (NWMR #01969) (if have an electronic water valve -cableless–

Ranco/Seitz/CEI)

MODES KNOB: RV218472 (NWMR #01969) – all

BLOWER MOTORS & WHEELS:

RV212105 (NWMR #06690) – DOUBLE SHAFTED MOTOR – REDMAN/PN#PF28128Q/062Q (USED 1990-1993)

RV218076 (NWMR #00745) – SINGLE SHAFTED MOTOR – SAYS FASCO/HV033208 (used since 1993)

HV218013 (NWMR #006246) – SINGLE SHAFTED BLOWER WHEEL

BINARY PRESSURE SWITCH: RV010484=RV212069 (NWMR #04138) – only one we provide (Ford and diesel only)

TRINARY PRESSURE SWITCH: HV033198=RV212188 (NWMR #04661) – only one we provide (Chevy only)

CONDENSER FAN ASSEMBLY: RV200453P=RV218183 (NWMR #03885) – only one we provide with the exception of Monaco

RECEIVER DRIER: If it is a gas unit, it WAS NOT supplied by Evans. Contact Parker Hannifin @ 800-272-7537, fax: 440-266-7400 or email @ c-parker@parker.com. Give them the part number on drier. They will cross reference it to their customers' number and advise you the information (i.e. part number and name).