

Replacement Instructions

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- Contact TLS Systems Technical Support for additional troubleshooting information at 800-323-1799.

CONTRACTOR CERTIFICATION REQUIREMENTS

Veeder-Root requires the following minimum training certifications for contractors who will install and setup the equipment discussed in this manual:

Service Technician Certification (Previously known as Level 2/3): Contractors holding valid Technician Certifications are approved to perform installation checkout, startup, programming and operations training, system tests, troubleshooting and servicing for all Veeder-Root Series Tank Monitoring Systems, including Line Leak Detection.

TLS-4xx Technician Certification: Contractors holding valid TLS-450 Technician Certifications are approved to perform installation checkout, startup, programming and operations training, troubleshooting and servicing for all Veeder-Root TLS-450 Series Tank Monitoring Systems, including Line Leak Detection and associated accessories.

Warranty Registrations may only be submitted by selected Distributors.

SAFETY WARNINGS AND PRECAUTIONS

FAILURE TO COMPLY WITH THE FOLLOWING WARNINGS AND SAFETY PRECAUTIONS COULD RESULT IN SERIOUS INJURY OR DEATH, AND/OR CAUSE DAMAGE TO PROPERTY, AND THE ENVIRONMENT.

THIS SYSTEM OPERATES NEAR HIGHLY COMBUSTIBLE FUEL STORAGE TANKS.

EXPLOSIVE: Fuels and their vapors are extremely explosive if ignited.

FLAMMABLE: Fuels and their vapors are extremely flammable.

READ ALL RELATED MANUALS: Knowledge of all related procedures before you begin work is important. Read and understand all manuals thoroughly. If you do not understand a procedure, ask someone who does.

USE SAFETY BARRICADES: Unauthorized people or vehicles in the work area are dangerous. Always use safety cones or barricades, safety tape, and your vehicle to block the work area.

APPROVED CONTAINER: Use a non-breakable, clearly marked container, suitable for collecting and transporting hazardous fuels during service.

NOTICE: NOTICE is used to address practices not related to physical injury.

USE SAFETY BARRICADES: Unauthorized people or vehicles in the work area are dangerous. Always use safety cones or barricades, safety tape and your vehicle to block the work area.

EPOXY SEALANT: is irritating to eyes, respiratory system, and skin. Can cause allergic skin reaction. Contains: epoxy resin and Cycloaliphatic epoxy-carboxylate. **Precautions:** Wear suitable protective clothing, gloves, eye, and face protection. Use only in well ventilated areas. Wash thoroughly before eating, drinking, or smoking.

GENERAL PRECAUTIONS

1. Read and follow all instructions in this manual, including all safety procedures, local and federal guidelines.
2. Have equipment installed in compliance with all applicable codes including: National Electrical Codes 70 and 30A; federal, state, and local codes; and other applicable safety codes.
3. Substitution of components may impair intrinsic safety.
4. Do not modify or use service parts other than those provided by Veeder-Root.

Reference Documents: Manual 577014-466, 577014-446

Suggested Equipment: V-R kit# 330020-872, approved 5-gallon container to receive diesel fuel; siphon pump; petroleum jelly; UL classified for petroleum, non-setting thread sealant; wire strippers; an adjustable wrench capable of opening to 2.275" to remove sensor; a 1/2" drive ratchet and extension.

PROCEDURE

1. Turn off power to the TLS-450PLUS console and Fuel Conditioning Controller and all related circuits to the sump.
2. Close the STP Adapter ball valve to isolate the Fuel Conditioner unit from the pump (see Figure 1).
3. Using a 1/2" drive ratchet and extension remove either of the two filter cap nuts.
4. Remove filter and set aside. Using the siphon pump and approved container, pump out the fluid in filter compartment until the fuel level is below the filter cavity.

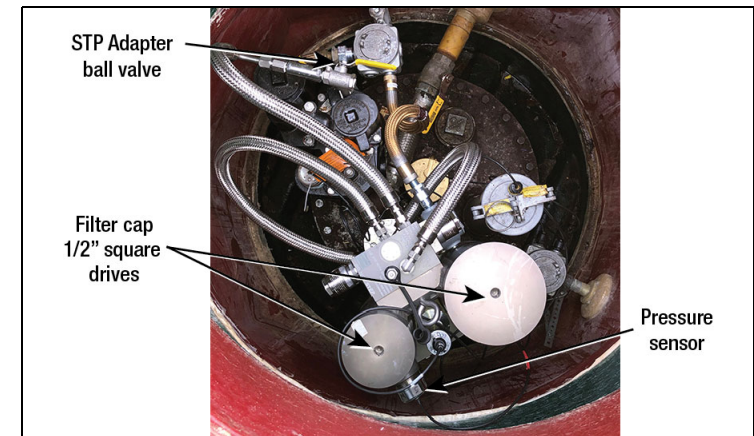


Figure 1.

5. Open the intrinsically safe junction box with the FC Pressure Sensor cable connections and cut the cable from the ATG at the old epoxy pack. Clear the ATG Comm alarm.
6. Using the 2.275" wrench, remove the old Pressure Sensor from the Fuel Conditioner.
7. Get the new Pressure Sensor and parts from the kit.
8. Apply a coating of non-setting thread sealant to the threads of the new Pressure Sensor and screw it into the FC. Tighten securely.
9. Connect the new Pressure Sensor cable wires to the ATG cable wires and seal wire connections in the epoxy pack as shown in Figure 2.

NOTICE Observe polarity when connecting Pressure Sensor wires!

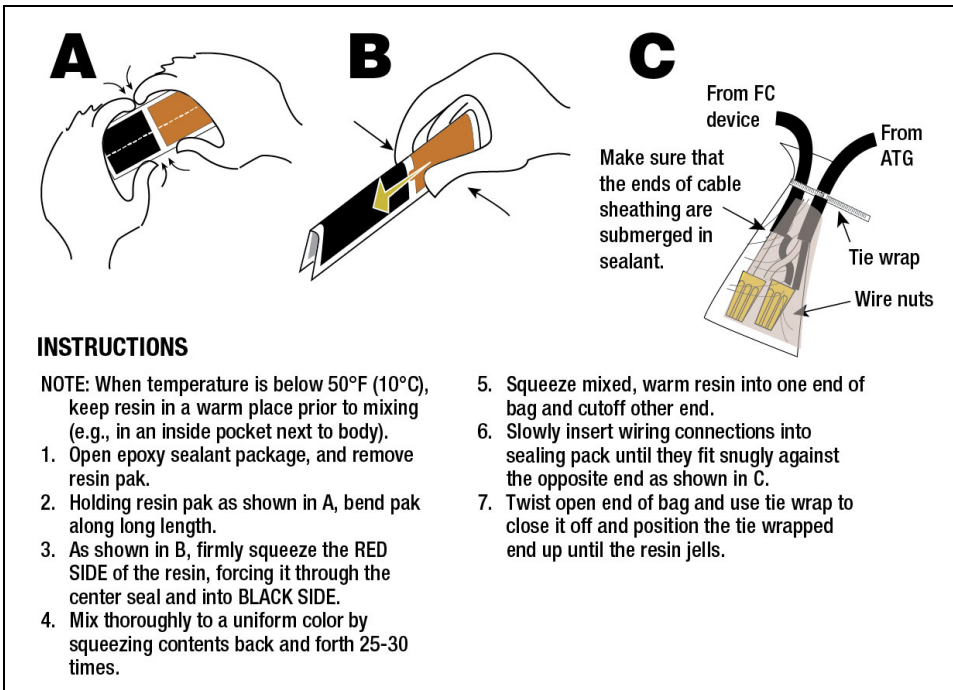


Figure 2.

10. Replace the FC filter, cap and nut. Tighten the filter cap nut until snug.
11. Re-open the STP Adapter ball valve (see Figure 1).
12. Turn on Power to TLS-450PLUS console and the Fuel Conditioning Controller and related circuits for that sump.
13. Verify that the sensor is being read by checking the Fuel Conditioner screen on the ATG.
14. Touch the TLS-450PLUS Status Bar to clear the alarm.
15. At the Fuel Conditioning Controller front panel, touch the Service button to open the Service Home screen (see Figure 3).
16. Touch the Fill button to refill the Fuel Conditioner filter compartment (see Figure 4).

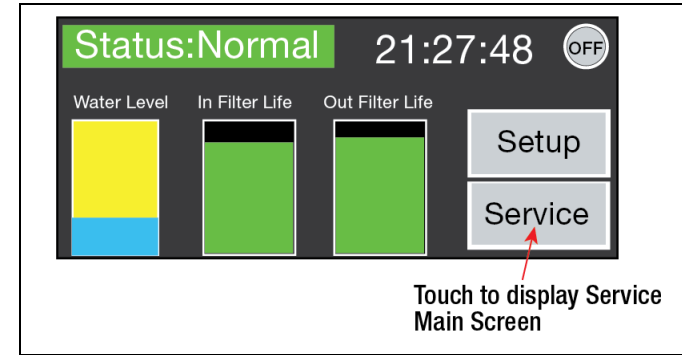


Figure 3.

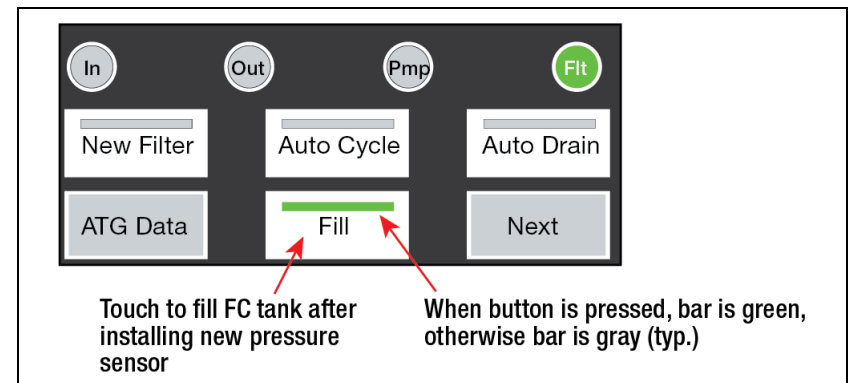


Figure 4.

For additional assistance, please contact Veeder-Root Technical Support by phone at 800-323-1799 or by email to technicalsupport@veeder.com