Franklin Fueling Systems

75 SERIES COAXIAL HOSE

MODEL F2IS2I INSTALLATION GUIDE

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Conventions used in this manual

This manual includes safety precautions and other important information presented in the following format:

NOTE: This provides helpful supplementary information.

IMPORTANT: This provides instructions to avoid damaging hardware or a potential hazard to the environment, for example: fuel leakage from equipment that could harm the environment.

⚠ **CAUTION**: This indicates a potentially hazardous situation that could result in minor or moderate injury if not avoided. This may also be used to alert against unsafe practices.

⚠ **WARNING**: This indicates a potentially hazardous situation that could result in severe injury or death if not avoided.

⚠ **DANGER**: This indicates an imminently hazardous situation that will result in death if not avoided.

Operating precautions

Franklin Fueling Systems (FFS) equipment is designed to be installed in areas where volatile liquids such as gasoline and diesel fuel are present. Working in such a hazardous environment presents a risk of severe injury or death if you do not follow standard industry practices and the instructions in this manual. Before you work with or install the equipment covered in this manual, or any related equipment, read this entire manual, particularly the following precautions:

IMPORTANT: To help prevent spillage from an underground storage tank, make sure the delivery equipment is well-maintained, that there is a proper connection, and that the fill adaptor is tight. Delivery personnel should inspect delivery elbows and hoses for damage and missing parts.

⚠ **CAUTION**: Use only original FFS parts. Substituting non-FFS parts could cause the device to fail, which could create a hazardous condition and/or harm the environment.

⚠ **WARNING**: Follow all codes that govern how you install and service this product and the entire system. Always lock out and tag electrical circuit breakers while installing or servicing this equipment and related equipment. A potentially lethal electrical shock hazard and the possibility of an explosion or fire from a spark can result if the electrical circuit breakers are accidentally turned on while you are installing or servicing this product. Refer to this manual (and documentation for related equipment) for complete installation and safety information.

⚠ **WARNING**: Before you enter a containment sump, check for the presence of hydrocarbon vapors. Inhaling these vapors can make you dizzy or unconscious, and if ignited, they can explode and cause serious injury or death. Containment sumps are designed to trap hazardous liquid spills and prevent environmental contamination, so they can accumulate dangerous amounts of hydrocarbon vapors. Check the atmosphere in the sump regularly while you are working in it. If vapors reach unsafe levels, exit the sump and ventilate it with fresh air before you resume working. Always have another person standing by for assistance.

⚠ **WARNING**: Follow all federal, state, and local laws governing the installation of this product and its associated systems. When no other regulations apply, follow NFPA codes 30, 30A, and 70 from the National Fire Protection Association. Failure to follow these codes could result in severe injury, death, serious property damage, and/or environmental contamination.

⚠ **WARNING**: Always secure the work area from moving vehicles. The equipment in this manual is usually mounted underground, so reduced visibility puts service personnel working on it in danger from moving vehicles that enter the work area. To help prevent this safety hazard, secure the area by using a service truck (or some other vehicle) to block access to the work area.

⚠ **DANGER**: Make sure you check the installation location for potential ignition sources such as flames, sparks, radio waves, ionizing radiation, and ultrasound sonic waves. If you identify any potential ignition sources, you must make sure safety measure are implemented.

⚠ **DANGER**: Make sure you perform continuity testing as described in PEI document: *RP400-12: Recommended Procedure for Testing Electrical Continuity of Fuel Dispensing Hanging Hardware*.

1. The work area must be clean and have sufficient lighting.
2. Remove hose from carton and set aside package of kitted components (kit part # 849).
3. Identify hose end (swivel end) without O-rings on the vapor tube adaptor.

4. From this hose end, remove the retaining ring from the vapor tube adaptor and set aside for re-use.

NOTE: To ensure re-use of the retaining ring, use the proper size retaining ring pliers to spread the ring just enough to clear and pull over the end of the vapor tube adaptor.

5. From this hose end, also remove the flow restrictor and set aside for re-use.

6. From the other hose end (fixed end, non-swivel), carefully pull out the vapor tube assembly and set aside for re-use.

IMPORTANT: The vapor tube assembly must be re-inserted into the same hose from which it came. If the vapor tube is installed in a different hose it may damage the vapor tube and cause coaxial hose problems.

NOTE: Use care when removing the vapor tube assembly to not kink the tube, damage the vapor tube adaptor quad rings, or lose the flow restrictor.

7. Feed the customer-supplied communications cable through the hose fittings.

NOTE: Customer-supplied communication cable to be gas and oil resistant, as well as meeting all applicable local codes for this application.

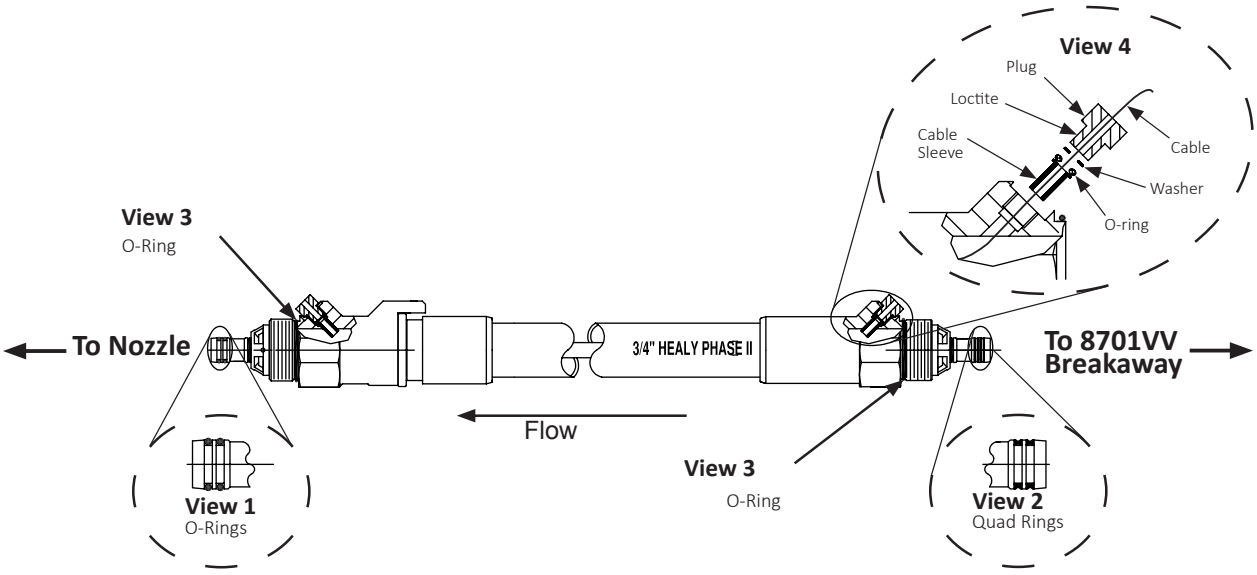
8. Re-insert the vapor tube assembly as previously removed in step 6.
9. Re-insert the flow restrictor as previously removed in step 5.
10. Re-insert the retaining ring as previously removed in step 4.
11. Remove the larger O-rings from the kitted components package (set aside in step 2) and assemble onto vapor tube adaptor on the hose end identified in step 3. (See View 1.)
12. From the kitted components package, tighten down both ends of the communication cable (View 4). Use thread-locking sealant (Loctite® 271 or equivalent) on the threads of the plug (View 4). Torque the Plug down finger-tight and then additional two full turns to ensure proper tightening of the cable.
13. Lubricate the O-rings (View 1), the quad rings (View 2) and O-rings (View 3, two places). Use of any weight motor oil as a lubricant is sufficient.
14. Assemble the end with the quad rings (View 2) to the output half of the breakaway. Install the hose assembly and torque to 35 to 70 foot/pounds. Assemble the end with the O-rings (View 1) to the nozzle.

NOTE: Be sure that the vapor tube fitting slides easily into the breakaway's valve on the nozzle end before final tightening.

15. Terminate the customer-supplied communications cable to the customer-supplied communications system per the manufacturer's installation instructions.

NOTE: The integrity and operation of the customer-supplied communications components are the responsibility of the installer and customer.

16. Pressurize the system and test for leaks. If any are found, lockout and tagout, and then troubleshoot the leaks.



IMPORTANT: Once the system has been installed correctly, inspect daily for leaks.

⚠ **DANGER**: When you complete any maintenance procedures, make sure you perform continuity testing as described in PEI document: ***RP400-12: Recommended Procedure for Testing Electrical Continuity of Fuel Dispensing Hanging Hardware***.