

VST Installation Procedure for Flex Fuel Conventional Fuel Hoses

Part Number Series: V34FF



Vapor Systems Technologies, Inc.

650 Pleasant Valley Drive
Springboro, Ohio 45066 (USA)

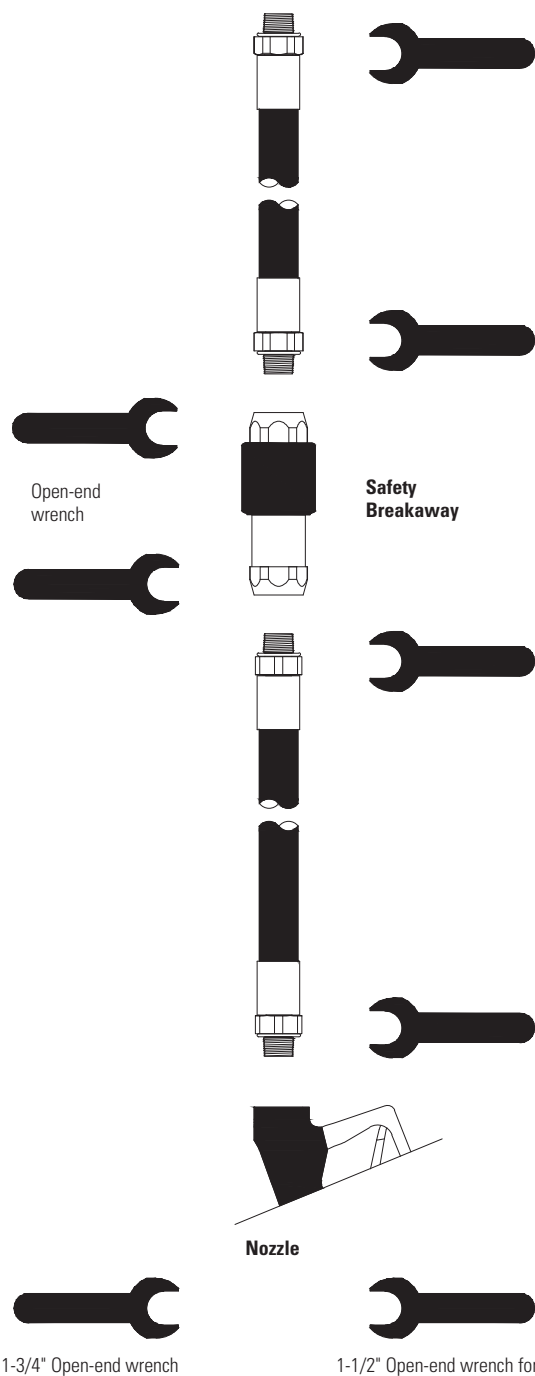
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www.vsthose.com

Figure 1.
Hanging Hardware Assembly



GENERAL INFORMATION

If hanging hardware components are involved in a drive-off or incur other customer abuse, each individual component must be functionally tested prior to customer dispensing activities.

INSTALLATION PREPARATION

This procedure must be followed to ensure leak-proof installation and operation of these hose products.

1. Turn off and tag the power to the dispenser. Dispenser must be de-energized prior to service to avoid personal injury.
2. Barricade work area to block vehicle access to the dispenser.
3. Close dispenser shear valve prior to performing any service work with the hanging hardware (hoses, safety breakaways, and nozzles).
4. Drain liquid product from the hanging hardware set into an approved container prior to replacing any hanging hardware component. (Pull nozzle lever.)

If the nozzle has an interlock device, engage the interlock before pulling the lever.

5. Remove hanging hardware from the dispenser prior to making replacement component assembly connections. VST recommends connecting the whip hose to the dispenser as the last connection during hanging hardware assembly.

INSTALLATION

1. The maximum length of the hose assembly shall not exceed eighteen (18) feet. Lengths greater than eighteen (18) feet are permitted if acceptable to authorities having jurisdiction.
2. Initial inspection:
 - a. Carefully unpack hose from shipping carton.
 - b. Inspect hose for any damage to threads, exterior, etc.
3. These are pipe thread couplings. Use of thread sealant is recommended. Do not use Teflon[®] tape. With pipe thread connections, the amount of torque necessary to obtain a seal is dependent on the mating materials and thread condition. **Only enough torque to achieve sealing should be used.**

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4. Attach hose on mating connections and tighten to finger tight. After finger tight, use wrenches **ONLY** on the hex flats to tighten an additional 1 to 1-1/2 TFFT (turns from finger tight.) This is normally sufficient to obtain a proper seal. Do not exceed 40 ft.-lbs. for 3/4" pipe threads.
 - a. DO NOT OVER TIGHTEN
 - b. DO NOT USE channel locks or pliers to tighten connections.
 - c. Always follow FLOW DIRECTION ARROW (where applicable)
5. Visually inspect all hose connections for signs of potential leak points. Repair any issue immediately before proceeding.
6. Purge air from the system by pumping one-tenth (1/10) to two-tenths (2/10) of a gallon of fuel into an approved container. Inspect each hose joint connection for liquid leaks and make proper adjustments if necessary.
7. Check the nozzle shut-off action by dispensing fuel into an approved container at least three times to assure proper automatic operation. The fuel flow rate must be greater than 3 gpm for the automatic shut-off mechanism to operate.

To test, operate the nozzle and submerge the spout tip in fuel until the fuel level covers the vent hole. The main valve of the nozzle automatically shuts off when liquid covers the vent hole at the end of the spout. The hold-open latch will disengage automatically when the liquid covers the vent hole in the spout.
8. Measure the resistance between the dispenser outlet casting and the tip of the nozzle spout. Use an electronic multimeter set on the high range of the ohmmeter function. Resistance should not indicate more than 70,000 ohms per foot of hose. Example: The measured resistance for a 12-foot hose must not exceed 840,000 ohms (840 kilohms).

MAINTENANCE

Inspect hoses regularly for damage, loose connections, leaks, kinks, blisters, bulges, flattened areas, soft spots, or any cuts/gouges deep enough to expose the reinforcement beneath the hose cover. Replace as necessary. Subject to customer abuse, hoses should be replaced when damaged.

The hose is designed and constructed to give lasting service if properly handled and maintained. If for any reason it should need attention, contact your VST distributor for proper disposition.

NOTE: Due to abuse, misuse, changing fuel formulas, variation in maintenance practices, environmental conditions and/or conditions beyond the manufacturer's control, dispensing equipment may need replacement before five (5) years. Inspections and proper maintenance procedures should be followed by the station manager to determine if replacement is required before five (5) years.

WARNING

Unauthorized rebuilding or modifying of hoses voids **ALL** approvals and warranties.

VST products must be used in compliance with applicable federal, state and local laws and regulations.

CUSTOMER COPY

**To be left at gasoline dispensing facility (GDF)
at time of installation**

Manufacturing Date:

(SEE BOX LABEL)

Serial Number: (Fill in at time of installation)

VST Warranty Statement

This limited warranty is given by Vapor Systems Technologies, Inc. (hereinafter VST) to the initial purchaser, and any subsequent purchasers of new equipment, within the warranty period of products manufactured by VST. VST products:

- Are factory tested and meet all applicable performance standards and specifications.
- Should be used in compliance with all applicable federal, state, and local laws and regulations to which they were certified.
- Are warranted to be free from defect in material and workmanship with ongoing compliance to all applicable performance standards and specifications under normal use, service, proper installation, inspections, and maintenance practices per manufacturer specifications.

VST warrants the materials and workmanship to be free from defects in accordance with the following provisions:

1. This warranty does not apply to any products that have:
 - Been subject to misuse, abuse, tampering, negligence, accident, or drive off.
 - Been misapplied, improperly installed, or not installed per VST's instructions and specifications.
 - Been modified, altered, rebuilt or repaired by unauthorized persons or outside the criteria of VST specifications.
 - Been improperly maintained and/or improperly inspected in accordance with the system's or product's periodic maintenance schedule, and any inspection and/or maintenance requirements imposed by the State or any government agency.
 - Been exposed to contact with fuels containing greater than 5% methanol, 10% ethanol, or 15% MTBE by volume or any exposure to M85/E85 fuel, unless the product is rated for that type of fuel.
 - Been subject to damage resulting from acts of God.
2. This warranty does not cover and VST is not responsible or liable for:
 - Incidental, consequential and/or indirect damages or loss including, but not limited to, personal injury, death, property damage, environmental damage, cost of labor, clean-up, downtime, installation and removal, product damage, and loss of product, revenue or profits.
 - Any claims or lawsuits against the purchaser and/or distributor.
 - Labor or materials necessary to disconnect or connect the warranted product for return to VST.

VST products used on systems that have not been listed by a nationally-recognized testing laboratory (NRTL) or use that falls outside intended field of use voids all warranties.

The duration of this warranty is TWELVE (12) MONTHS from the time of installation provided timely valid proof of installation is submitted to VST. Valid proof of installation options include, but are not limited to:

- VST Product Warranty Registration Card is properly completed and returned to VST at time of installation and within (6) SIX MONTHS from the date of manufacture.

OR

- In lieu of a legitimate, completed and returned VST Product Warranty Registration Card within the first (6) SIX MONTHS from the date of manufacture, VST requires the following:
 1. A completed gasoline dispensing facility (GDF) monthly maintenance log from the month in which the VST equipment was installed and documented, **AND**
 2. One of the following documents that may be used as a reference installation date:
 - A valid distributor invoice
 - A valid contractor invoice

The above options must be clearly marked with:

- All VST product serial numbers
- Product sale date and/or installation date
- Purchaser name, address, and phone number

If valid proof of installation is not received by VST, as noted above, the warranty period is TWELVE (12) MONTHS from the VST date of manufacture.

In the event of a warranty claim:

- The purchaser/distributor must obtain a copy of a Return Goods Authorization (RGA) from VST prior to returning product so as to ensure proper processing. All warranty claim returns must be shipped freight prepaid by the purchaser and/or distributor.
- Warranty status will be determined upon inspection at VST's facility within THIRTY (30) DAYS of receipt by VST of the warranted products. All returned merchandise deemed Not Under Warranty; will be held by VST for SEVEN (7) BUSINESS DAYS prior to disposal. Return of this product to the purchaser/distributor will require purchaser/distributor to issue a call tag within SEVEN (7) BUSINESS DAYS of notification.
- Repair or replacement of the warranted product is the **EXCLUSIVE REMEDY** under the terms of this warranty. No other warranty exists.

VST, as to each defect, shall be relieved of all obligations and liabilities under this Limited Warranty if the products have been operated with any accessory, equipment, or a part not specifically approved by VST and the appropriate governing regulatory agencies.

THIS LIMITED WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ALL OTHER WARRANTIES. VST MAKES NO OTHER WARRANTIES (WHETHER WRITTEN OR ORAL), EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OTHERWISE, AND ANY OTHER SUCH WARRANTIES ARE HEREBY DISCLAIMED.

VST NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON OR ENTITY TO ASSUME FOR IT OR BIND IT TO ANY OTHER LIABILITY OR OBLIGATION RELATED TO OR IN CONNECTION WITH THIS LIMITED WARRANTY.

VST reserves the right to make changes at any time to prices and designs, or make additions or improvements with respect to its products, without incurring any obligation to modify or install same on previously manufactured products.

✂ Cut along dotted lines for both the Return Tag and the Warranty Registration Card

Warranty Registration Card:

- Cut Out
- Fill out completely
- Return to VST for Warranty Registration at time of installation

Product Return Tag:

- Cut Out
- Fill out completely when submitting a Warranty Return Claim
- Include completed form in box with Warranty Return Claim product
- Include RGA paperwork



Hose Return Tag

No warranty accepted without tag filled out and attached to product.

ASC Company: _____

Site Name: _____

ASC Tech Name: _____

Site Street Address: _____

ASC #: _____

Site City, State & Zip: _____

Service Date: ____ / ____ / ____

Site Phone #: ____ - ____ - ____

Claim Serial #: _____

Hose Type (check one):

(product removed from service)

- Balance Assist Conventional

Replacement Serial #: _____

Check reason for return - at least one box below must be checked to be considered for a warranty claim:

- Connection or thread problem
- Failed A/L test (applies to Assist only)
- Failed liquid removal test (applies to Balance only)
- Failed regulatory test ----->
- leaked at coupling ----->
- leaked through the hose wall
- Meter creep
- Other claim - explain (use space to the right)----->

Specify the test that failed: _____

Specify which coupling leaked: _____

Please explain any "Other claim" below: _____

This side of tag to be filled in by ASC



Vapor Systems Technologies, Inc.

Phone: (937) 704-9333 • Fax: (937) 704-9443
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**IMPORTANT
PRODUCT WARRANTY
REGISTRATION CARD**

(FILL OUT WARRANTY REGISTRATION CARD COMPLETELY)

See VST Warranty Statement for complete Warranty details.

A copy of the VST Warranty Statement is included in every product carton.

PRODUCT STYLE:

- HOSE
- NOZZLE
- PROCESSOR
- SAFETY BREAKAWAY
- OTHER

SERIAL NUMBER:	_____
INSTALLATION DATE:	_____
INSTALLATION SITE NAME:	_____
INSTALLATION CITY/STATE/ZIP:	_____
INSTALLATION SITE PHONE NUMBER:	_____
DISTRIBUTOR NAME:	_____

✂ Cut along dotted lines for both the Return Tag and the Warranty Registration Card

Product Return Tag:

- Cut Out
- Fill out completely when submitting a Warranty Return Claim
- Include completed form in box with Warranty Return Claim product
- Include RGA paperwork

Warranty Registration Card:

- Cut Out
- Fill out completely
- Return to VST for Warranty Registration at time of installation

Hose Return Tag

No warranty accepted without tag filled out and attached to product.

Distributor Name: _____

Street Address: _____

City, State & Zip: _____

Distributor Phone #: _____

RG#: _____

Distributor should check off "all" of the below items for accurate warranty claim processing:

- RGA number is obtained and filled in on this side of tag
- "Claim serial number" is validated (refer to other side of tag)
- "Replacement serial number" is filled in (refer to other side of tag)
- Verify the "reason for return" is filled in (refer to other side of tag)

Return product to: Vapor Systems Technologies, Inc.

650 Pleasant Valley Drive

Springboro, Ohio 45066

Phone: 1-888-VST-HOSE

1-888-878-4673

Website: www.vsthose.com

9533-001 01/21

This side of tag to be filled in by Distributor

Vapor Systems Technologies, Inc.
 650 Pleasant Valley Drive
 Springboro, Ohio 45066

