

WELD-LESS FUEL RETURN FITTING



Part Number: 166025ERL

Installation Instructions:

WARNING! Proper installation of the fuel return line will necessitate complete removal of the fuel tank. This work should be done by a fuel tank specialist, who regularly does this work and is familiar with safety regulations and precautions necessary to do this work.

Holley recommends having your tank professionally cleaned before drilling. If you choose not to have the tank professionally cleaned, drain the tank completely, let dry, and fill with water. If a person attempts this work, who is not familiar with the safety regulations and precautions, an explosion hazard may result causing serious injury or death.

Earl's Weld-less Fuel Return Fitting is to be used in Electronic Fuel Injection (EFI) installations where a return option is needed on fuel tanks that didn't offer a return provision. Being universal suits any vehicle application where no welding is required and is intended to be used when one doesn't have access to both sides of the tank.

Features:

- Low-profile design needs at least 1-3/8" of space
- Accommodates 6AN, 8AN, 5/16" or 3/8" hose barb adapters
- Includes fixed & flexible in-tank fuel return tube
- Effectively routes returning fuel below surface level
- Helps keep air out of fuel system
- Comes with -6AN ORB plug and installation hardware
- Knurled ribbed body helps prevent rotation
- Suitable for pump gas and E85
- To be used with Steel or Aluminum tanks up to 1/8" thick
- Installs on flat horizontal surfaces mounted on top of tank

Tools Required:

- 1/4" Hex Key
- Deburring Tool
- Center Punch
- Rubber Mallet
- 1" Wrench
- Marker
- Step Drill that reaches up to 1/2"
- Drill
- Heat Gun
- 9/16" Socket
- Impact Drill & Driver

Recommended Parts: *Adapters Sold Separately

- 6AN Male to 6AN ORB
 - P/N: AT985006ERL
- 8AN Male to 6AN ORB
 - P/N: AT985086ERL



- 5/16" Hose Barb to 6AN ORB
 - P/N: 785056ERL
- 3/8" Hose Barb to 6AN ORB
 - P/N: 785066ERL



Installation Instructions:

1. Find location on top of tank (need at least 1-3/8" of space), mark it, and center punch it.



2. Use step drill to drill 1/2" hole.

NOTE:

It is NOT recommended to use drill bits due to the tank's thin walls tend to deform.



3. Deburr hole and ensure no shavings or debris are left inside of tank.



4. Choose either the fixed or flexible tube. Flexible tube allows to go around baffle walls. Both tubes are designed to reach bottom of tank.



5. To aid install, heat the end of a tube with a heat gun just enough to expand it.



6. With work gloves on, securely press tube into hose barb side of fitting, until it bottoms out.

NOTE:

Tube will be hot to the touch from the heat gun.



7. Insert fitting with tube into the drilled hole. If necessary, cut tube with scissors to the height of the tank.



8. Hold fitting on flats with a 1" wrench and tighten the fastener with a 9/16" socket with Impact Driver.

NOTE: For best results, tighten bolt with an impact and don't use hand tools.



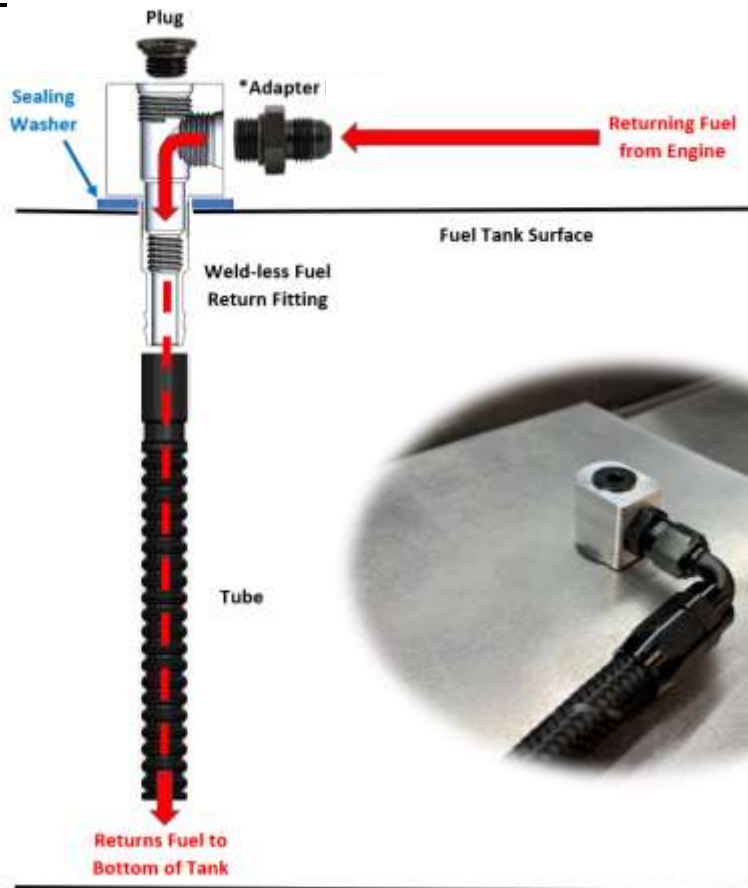
9. During tightening, knurled shaft will collapse and mushrooms like a rivet nut to seal against inside of tank. Fitting is fully seated when it stops rotating and remains stationary.



10. Remove bolt and washer & replace with ORB Plug. Install adapter of your choice (sold separately) at front of fitting as shown. Connect return line and check for leaks.



General Layout Overview:



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