



Model Number 72xxx
Hose & Fittings

Operating and Installation Instructions

CAUTION!

This product is to be installed only by persons knowledgeable in the repair and modification of vehicle fuel systems and general vehicle systems modification. Only a qualified technician or mechanic who is aware of applicable safety procedures and fabrication skills should perform the installation of this product.

GASOLINE AND OTHER FUELS ARE FLAMMABLE AND CAN BE EXPLOSIVE!

Perform the installation in a well-ventilated location only to minimize the buildup of fuel vapors. **NO** open flames, smoking or other sources of ignition are to be present during installation, to prevent fire or explosion that can cause serious injury or death. Grinding, cutting, and drilling must be performed with care to prevent ignition. Draining and removal of all fuel and ventilation of vapors in vehicle and fuel system is recommended when performing such procedures. Proper eye and personal protection is required at all times during installation.

WARNING!

The Vehicle's fuel system may be under pressure! Do not loosen any fuel connections until relieving all fuel system pressure. Consult an applicable service manual for instructions to relieve fuel system pressure safely.

This product is intended for racing, off-road, or marine use only. This fuel system component may not be legal for sale or use on emission-controlled motor vehicles; consult local, state and national laws.

Product Contents:

Check the package to ensure that no components are missing from the box.

Contact your Fuelab distributor immediately for replacement.

Parts List:

Model	Parts
72600-XX	Fitting, Fitting Nut, Olive Insert
72700-XX	Hose
72800-XX	Olive Insert

Tools Required:

- AN Hose Cutters (or alternative cutting tool)
- AN Spanner Wrenches (or alternative wrench)*
- PTFE Hose Expander (or Screwdriver)
- Aluminum Soft Vise Jaws
- Masking Tape

Before Installation, Plan Entire Fuel System:

A complete design plan of the entire fuel system must be created for the specific application. Consult other sources of information and manufacturer's instructions for the various components of the fuel system. Visit our company website (www.fuelab.com) for specific details pertaining to example fuel systems and other solution ideas.

Additional information including advanced troubleshooting, any special alerts and FAQ's pertaining to this and other products is also available. A good design plan for the fuel system must contain consideration for: Pressure and flow rate through various components, quality of components, operating environment (temperature, vibration, shock, general exposure to elements) and local area laws.

Plumbing Planning Notes:

Adequate structural mounting and support is the responsibility of the fabricator or installer. Mount the Fuel Cell away from sources of heat or in an areas prone to collision damage without it being vulnerable to road hazards or debris.

The fuel ports use “AN” or “military” style fittings. This plumbing standard is commonly used with racing and high performance applications. See step 4 on next page for additional information on this port standard. Use of a liquid filled gauge exposed to engine compartment heat is not recommended as the liquid inside the gauge may exert measurement errors, all mechanical gauges and pressure transducers have amounts of error due to temperature fluctuation, be aware of inaccurate pressure readings. **DO NOT** plumb gauge port to any gauge mounted inside the vehicle or in passenger compartment. A line burst can spill fuel inside passenger compartment and on occupants, possibly causing serious injury or death.

HOSE & FITTINGS INSTRUCTIONS

Installation Steps:



Tools required

1. *Cutting the PTFE Hose*

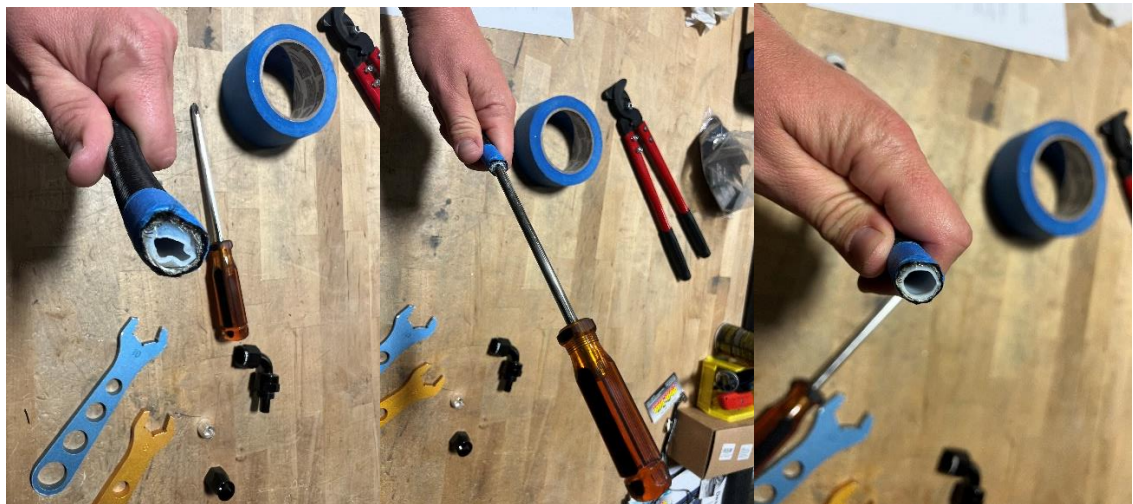
- i. Find where you want to make the cut for the hose to your preferred length. Mark it by wrapping some masking tape around the hose. This will mark your position and keep the Stainless-Steel Braid and Nylon from Fraying as you cut.



- ii. Make your cut in the middle of the tape to ensure a clean cut. We recommend a nice set of AN Hose Cutters. Other industrial hose cutting tools, or a fine-tooth metal saw can also be used.



- iii. Once the hose is cut, make sure that the hose is round, and the PTFE liner doesn't get damaged or collapse. If the liner has collapsed, you can use the fitting, a screwdriver or similar to round the bring it back to shape



2. *Installing the Fitting*

- i. Before removing the masking tape, slide the Fitting Nut onto the PTFE Hose. Be sure that it's facing the correct way with the open threads facing the hose end.



- ii. Carefully remove the masking tape and try to keep the Black Nylon and Steel Braid as clean and nice as possible to avoid thread engagement issues.



- iii. Then you need to flare out the Stainless-Steel braid to make room for the olive insert/ferrule.



- iv. Next install the Olive/ferrule onto the PTFE tube. The olive/ferrule will slide around the outside of the PTFE tube, and inside of the Stainless-Steel Braid. Be sure that no braids get between the olive/ferrule and the tube to prevent possible leaks.



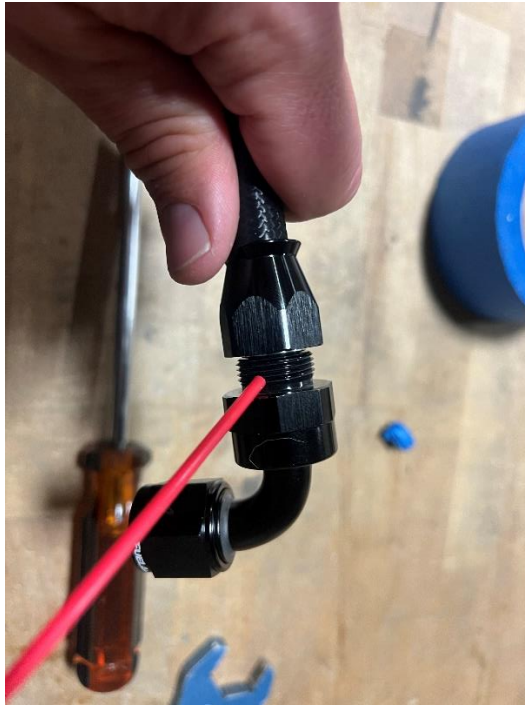
- v. The olive/ferrule must go all the way down on the PTFE tube until the tube bottoms out inside the olive/ferrule.



- vi. Make sure the PTFE tube is still open wide enough to receive the fitting without tearing or folding over. This can also cause leaks.



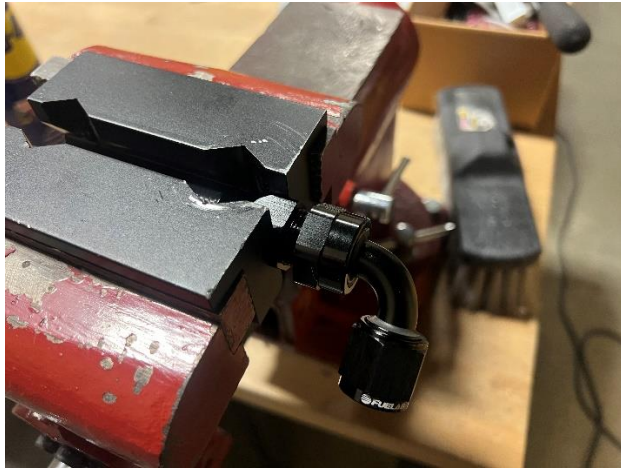
- vii. Lubricate the threads on the hose end fitting and the fitting nut using a light oil.



- viii. Push the fitting all the way into the PTFE Tube until flush with the olive/ferrule. Push and twist or wiggle back and forth to get it to go in easily.



- ix. Hold the fitting nut in vise jaws, keep the fitting and nut straight, and start the threads by hand to ensure that the threads are correctly aligned.



- x. After making sure the threads are still properly lubricated, using the correct size Spanner or AN wrench, tighten the fitting until you have about a 1mm gap between the nut and the fitting.



- xi. Align the flat sides of the hex for a clean, professional finish!



Fuel System Maintenance Notes:

Periodic inspection and general maintenance is required for longevity and reliability of the fuel system. This action directly affects performance and reliability of the products. Included with that are periodic inspection and/or filter element replacement. Straining Filters should be checked and cleaned at least every 50,000 miles (more often for off-road operating conditions). Replace or clean downstream filters every year or 15,000 miles (more often for off-road operating conditions). Dirty fuel filters can block flow and adversely affect fuel system performance as well as can directly damage the Fuel Surge Tank System.

Special alert for E85 or Methanol Users: **DO NOT** use cellulose (paper) based filter elements! Water can contaminate the fuel and break down the element, creating debris that can damage injectors.

Troubleshooting Notes:

Problem (Symptom)	Possible Causes	Possible Solutions
Leakage	<ul style="list-style-type: none">Loose connections	Make sure the parts are assembled properly. Follow the leak and tighten the fittings.
Not building up fuel pressure.	<ul style="list-style-type: none">Incorrect fuel system initial priming procedure.Improperly mounted low fuel level.	Check all the plumbing.
Loss of fuel pressure or erratic pressure pulsation after several minutes of operation.	<ul style="list-style-type: none">Cavitation (vapor lock) due to overheating or restricted inlet.	Check temperature of return line right after failure. If return line is hot to touch (uncomfortable to leave hand on Fuel Surge Tank due to it being too hot, or above 120°F), then look for sources of heat such as exhaust or fuel rail mountings that could be conducting too much heat. If return line is not hot to the touch, check for inlet restrictions such as improperly vented tank or inspect module and straining filter in lift pump. Contact Fuelab, as Fuel Surge Tank may be damaged due to improper operating condition for repair or consultation.

Please do not return this product to your retailer. If you experience any performance, reliability or problems during installation or use of this product, please contact Fuelab immediately!

For more tips, advice or troubleshooting please visit our website at www.fuelab.com, e-mail message to info@fuelab.com or call our tech department at 618-344-3300 between 8am and 5pm Central Standard Time.



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LIMITED LIFETIME WARRANTY

FUELAB, a division of FCP, Inc., having its principal place of business at **1605 Eastport Plaza Drive, Suite 125, Collinsville, IL 62234, USA** ("Manufacturer") warrants its **FUELAB** products (the "Products") as follows:

1. Limited Lifetime Warranty

Manufacturer warrants that the Products sold hereunder will be free from defects in material and workmanship from the date of purchase for so long as the original purchaser owns the Products. This Limited Lifetime Warranty does not extend to any subsequent owner or transferee of the Products. If the Products do not conform to this Limited Lifetime Warranty during the warranty period (as herein above specified), Buyer shall notify Manufacturer in writing of the claimed defects and demonstrate to Manufacturer's satisfaction that said defects are covered by this Limited Lifetime Warranty. If the defects are properly reported to Manufacturer within the warranty period, and the defects are of such type and nature as to be covered by this Limited Lifetime Warranty, Manufacturer shall, at its option and own expense, furnish replacement Products or replacement parts for the defective Products or refund the purchase price. Removal of Products from vehicle, shipping to Manufacturer and installation of the replacement Products or replacement parts shall be at purchaser's expense. *(Vehicle means any automotive, bike or marine transportation device powered by an internal combustion engine to which the Product is attached. This Product is **NOT** intended or designed for use on aircraft, experimental or otherwise.)*

2. Other Limits

THE FOREGOING IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. This Limited Lifetime Warranty does not cover any damage due to: (a) transportation; (b) storage; (c) improper use; (d) failure to follow instructions for the Products or to perform any preventive maintenance; (e) modification; (f) unauthorized repair; (g) normal wear and tear; or (h) external causes such as accidents, abuse, or other actions beyond Manufacturer's reasonable control. This Limited Lifetime Warranty also does not apply to Products upon which repairs have been effected or attempted by persons other than pursuant to written authorization by Manufacturer. This Limited Lifetime Warranty is not extended if we repair or replace the Products.

3. Exclusive Obligation

THIS LIMITED LIFETIME WARRANTY IS EXCLUSIVE. The sole and exclusive obligation of Manufacturer shall at its option be to repair or replace the defective Products in the manner and for the period provided above or to refund the purchase price. Manufacturer shall not have any other obligation with respect to the Products or any part thereof, whether based on contract, tort, strict liability or otherwise.

4. Other Statements

ORAL OR OTHER WRITTEN STATEMENTS BY MANUFACTURER'S EMPLOYEES, REPRESENTATIVES AND/OR RESELLERS DO NOT CONSTITUTE WARRANTIES, SHALL NOT BE RELIED UPON BY BUYER, AND ARE NOT A PART OF THE CONTRACT FOR SALE OR THIS LIMITED LIFETIME WARRANTY.

5. Entire Obligation

This Limited Lifetime Warranty states the entire obligation of Manufacturer with respect to the Products. If any part of this Limited Lifetime Warranty is determined to be void or illegal, the remainder shall remain in full force and effect.

6. Warranty Service

How Do You Get Service?

If something goes wrong with your Product, contact FUELAB at 618-344-3300, or send an e-mail with proof of purchase to: info@fuelab.com for a Return Authorization Number (RMA). After receiving your RMA send the product postage paid, fully insured, with a brief written description of the problem to:

FUELAB Warranty Department, 1605 Eastport Plaza Drive, Suite 125, Collinsville, IL 62234

We will inspect your Product and contact you within three business days of receipt to give the results of our inspection and an estimate of the labor and/or parts charges required to fix the Product, if applicable. If covered under this Limited Lifetime Warranty, Manufacturer will repair or replace the Product and return it to you at no cost or refund the purchase price. If the Product is NOT covered under this warranty and if you authorize repairs, we will return the repaired Product to you COD, or prepaid via credit card, within three business days. If we find no issues with the returned product and it meets all performance specifications, there will be a \$25 charge to cover technician labor and inspection time. Additional return shipping charges will apply. We will return the repaired Product to you COD, or prepaid via credit card, within three business days.

Limitation of Liability

THE REMEDIES DESCRIBED ABOVE ARE YOUR SOLE AND EXCLUSIVE REMEDIES AND OUR ENTIRE LIABILITY FOR ANY BREACH OF THIS LIMITED LIFETIME WARRANTY, OUR LIABILITY SHALL UNDER NO CIRCUMSTANCES EXCEED THE ACTUAL AMOUNT PAID BY YOU FOR THE DEFECTIVE PRODUCT, NOR SHALL WE UNDER ANY CIRCUMSTANCES BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL OR PUNITIVE DAMAGES OR LOSSES, WHETHER DIRECT OR INDIRECT.

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.