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1x	Hose End Assembly Tape
10x	Clamps



## **PTFE, Stainless Steel Hose Kit - Kits** 51005, 51006, 51007 and 51008

WARNING: Cancer and Reproductive Harm www.P65Warnings.ca.gov

- FiTech PTFE hose is suitable for use with all types of automotive fluids including most fuels such as gas, ethanol/flex fuels (E85), oil, coolant etc.
- FiTech PTFE hose has an internal anti-static liner to prevent electrostatic build up on the inside of the PTFE tube, from media passing through, which typically can discharge through the tube wall causing leaks.
- It is extremely important to ensure that the hose is assembled correctly to ensure best leak free performance.
- When determining hose routing never make sharp turns that can put stress on the hose and could cause kinks or route near high temperature items such as headers and exhaust. Kinking hose or overheating the hose can cause damage and/or leaks.
- Make sure all hose lengths have at least a little slack and that the hose is not twisted. This will ensure there is no stress on the hose which will extend the life of the hose.
- On applicable part numbers, the black covering provides an aesthetic stealthy appearance as well as having a flame-retardant property.

Measure carefully to determine appropriate hose length. Be sure to consider for hose end fittings lengths Once the cut length has been determined, tightly wrap tape around the area of the cut. As shown, mark the cut line.



NOTE: The tape is used to prevent the hose from fraying during cutting.

PTFE hose uses stainless steel braiding for strength. The best tool for cutting PTFE hose is a toothless chop saw blade. However, the following can also be effective when used properly.

- Band saw with a fine tooth blade
- Large heavy duty cable cutting shears
- Rotary tool with abrasive cut-off wheel

**NOTE:** Other tools can be used as long as the result is a clean cut without fraying or deformation of the hose. Typically using a chop saw or rotary tool using a quick fast cut without heavy pressure works best.

Carefully cut all the way around the hose completely through all layers. Clean any debris from the cut end of the hose.

Disassemble the hose-end by unscrewing the B-nut. Next, locate the silver colored "ferule" inside the hose-end. Put ferule aside as it will be needed later.

Push the hose into the B-nut from the fitting that will be installed.

**NOTE:** If the stainless braid frays too much, this will be very difficult and a new cut may be necessary. If working with black covered hose, use extreme care to try and prevent the black covering from fraying. If this happens, the hose can still be used if the fray is not too bad. Loose strands can be trimmed back later. If the fray is very bad, the hose will have to be re-cut or the black covering can be completely removed from the entire hose and assembled without.

As the hose starts to insert into the B-nut, remove the tape.

Slide the B-nut up the hose about 1" (25mm).

## NOTE:

Locate the internal ferule. Push the ferule on to the end of the hose liner so that it goes underneath the stainless steel braiding. The braiding may need to be frayed slightly. There is a shoulder inside the ferule that the PTFE liner should sit against when fully inserted.

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Insert the hose-end into the end of the PTFE hose until it is fully seated, as shown. Check to make sure the hose end is sliding correctly into the PTFE hose lining and not folding it over. If the black polyester has frayed, no wise good time to trim back loose strands that may get caught in the threads.

Slide the B-nut down towards the hose end. Apply lubrication to the threads.

Begin threading the B-nut to the hose-end while applying pressure to ensure the first few threads engage correctly. Once a few threads are engaged, pressure is no longer needed.

**NOTE:** It is very easy to strip these threads, so be very careful.

Clamp the B-nut in a vise or carefully with two wrenches. Be careful not over-tighten and distort the B-nut. Tighten the hose-end in to the B-nut until there is no gap left between the two.

**NOTE:** It is recommended to use aluminum vise jaws and a non-marring wrenches to prevent surface finish marring or damage.

Hose assembly is complete. Pressure testing is recommended to ensure proper installation. If not possible, carefully inspect the hose during first use.

## **3-Year Limited Warranty on FiTech EFI Systems**

FiTech extends the following limited warranty to the original purchaser of a FiTech EFI system purchased after November 1, 2022. FiTech warrants its products against defects in materials and workmanship, under normal use and service for 3 years from the date of original purchase. This applies only to the original purchaser and the parts must remain installed on the original vehicle for which they were purchased. This warranty is void if the product was improperly installed, was installed on a vehicle for which it was not designed, if it was modified in any manner, or was removed from the original vehicle and reinstalled on another vehicle. Coolant temperature product is in repair will be added to the existing warranty period. sensors and oxygen sensors are not covered under this warranty.

This warranty shall not apply to any product installed improperly, or contrary to FiTech's instructions, altered, misused, repaired or damaged from an accident, collision, or willful or negligent act. To make a claim under the terms of this Warranty, the original purchaser must contact FiTech tech support. If FiTech tech support deems the product in need of warranty service, proof of original purchase will be required. Purchaser must call FiTech Technical Support (951-340-2624) option 2 or email: Techmail@fitechefi.com, to obtain a Returned Material Authorization (RMA). Proof of purchase must clearly show the place of purchase, purchase price, product purchased, and date of purchase. Purchaser needs to register their product here: https://fitechefi.com/warranty-registration or using the mail-in registration form found in the product box.

FiTech's 3-Year Limited Warranty does not cover factory refurbished parts, this warranty is only valid for new purchases from an authorized dealer.

FiTech's liability is expressly limited to replacing or repairing the defective part or parts (refunds are not covered under FiTech's 3-year Limited Warranty). FiTech will have no liability for the cost of installation or removal of the defective product or for the cost of labor or any additional parts required to complete the installation of the replacement product. FiTech is not responsible for any shipping charges accrued during the warranty process/claim.

In no event will FiTech be liable for any indirect, special, incidental, or consequential losses or damages (including but not limited to interruption of business or loss of business or profit) resulting from the use or inability

to use the product, any breach of warranty, or any defect in the product, even if FiTech shall have been advised of the possibility of such potential damages or losses. Some states do not allow the exclusion or limitations of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

If the product is in the FiTech facility for repair, the amount of time the

In the event that your EFI System that is under warranty is in for repair and FiTech has authorized a replacement, and if that EFI System has been discontinued, FiTech will replace it with a similar product for the same application. The replacement EFI System will maintain the existing warranty period of the original EFI System.

## What is not covered under FiTech's 3-Year Limited Warranty:

- Offboard Sensors (oxygen sensors, and temperature sensors, are subjected to a 1-year limited warranty).
- Fuel pumps (Fuel pumps are subjected to a 1-year limited warranty. The customer must send photos of filters used in application. If the filter is completely clogged or contaminated, the fuel pump will not be covered under any FiTech warranty).
- Fire Damage.
- Cracked footings or flanges on the base of EFI units due to overtightening or improper installation.
- Removal or replacement costs.
- Shipping costs.
- Damage to related components.
- Costs incurred due to downtime of a vehicle.
- Vehicle transport or storage costs.
- Any product used in marine applications unless specifically stated for marine usage.
- Any product purchased from an unauthorized third party (for example: Amazon, eBay, Craigslist, etc.)



WARNING: This product can expose you to chemicals including Chromium, Lead, Lead Compounds, Nickel (Metallic), Nickel Compounds, Disonyl and Di(2-ethylhexyl) Phthalates (DEHP)(DINP) which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information, visit www.P65warnings.ca.gov.

INSTALLATION INSTRUCTIONS PTFE, Stainless Steel Hose Kit - Kits 51005, 51006, 51007 and 51008 RevA0923

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