

GENUINE  
**STROMBERG**

97

## TwoStep fuel line

Installation guide

HOT ROD CARBURETION • CLOTHING & COLLECTIBLES  
• SERVICE PARTS • LINKAGE & FUEL DELIVERY

If you need further information  
or assistance, please contact your  
Genuine Stromberg dealer,

or email us direct at  
[tech@stromberg-97.com](mailto:tech@stromberg-97.com)

or log on to our Tech Center at  
[www.stromberg-97.com](http://www.stromberg-97.com)

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Picture 1: 9145-11A

### Align your fuel pump

On some intake manifolds, you may need to rotate the top of the fuel pump to align the outlet with the TwoStep fuel line.

(See Picture 1 - 11A pump shown)

Simply remove the small screws, keeping downward pressure on the top of the fuel pump before releasing the spring gently. Rotate the top casting (usually by one screw space) and replace the screws tight.

### Using a remote fuel pump?

TwoStep fuel lines with part numbers ending -RP accept a Genuine Stromberg Superseat fuel hose fitting (9080k) or a stock flathead firewall-to-fuel-pump flexible hose (Ford part 9288). You may find it easier to attach these before installation. Always hold the end fitting with an 11/16in open-end wrench to avoid twisting the fuel line.

### WARNING!

Stromberg 97, 81, 48 and 40 carburetors are designed for between 2.5 psi and 3.0 psi MAXIMUM fuel pressure measured at the carburetor. Excess pressure can cause flooding which may cause a fire or explosion resulting in property damage, serious personal injury or death. Many modern electric fuel pumps are designed to provide higher pressures and require the use of a fuel regulator when used with Stromberg carburetors. Always check the manufacturer's specification.

### WARNING!

Never smoke, use an open flame, or produce any sparks where gasoline or gasoline vapors could be present. Always perform any work on the fuel system in a well ventilated area. Disconnecting fuel lines will usually result in some gasoline being spilled. Use a catch bottle to collect excess fuel. Clean up any spilled fuel before continuing. Failure to do so may result in the build up of dangerous gasoline or other combustible vapors that may cause severe respiratory injury, or a fire or explosion, resulting in property damage, serious personal injury or death.

### WARNING!

Stromberg recommends that installation be performed only by a professional auto mechanic. An improperly fitted fuel line may cause poor performance or lead to property damage, personal injury or death, and may void your warranty.

### WARNING!

Always disconnect your vehicle's battery and make sure that the engine is cool before performing any work on the fuel system. Failure to do so may produce sparks, causing a fire or explosion, resulting in property damage, serious personal injury or death.

## Warning!

These instructions, including the diagrams, must be read and fully understood before installation, otherwise installation should not be attempted. Failure to follow these instructions may result in poor performance, vehicle damage, personal injury or death.

If you have any questions, contact your Genuine Stromberg dealer or email us at [tech@stromberg-97.com](mailto:tech@stromberg-97.com)

### 1. Read this first

#### Have you got the right fuel line?

Check you have the correct fuel line before installation. Stromberg TwoStep fuel lines are designed to fit Stromberg 97, 81, 48 and 40 carburetors on specific intake manifolds. Carburetor spacing differs between intake makes and models.

#### Are you using the stock Ford/Mercury flathead fuel pump?

Check your TwoStep fuel line against the chart below. All three pumps are available new. Stromberg TwoStep fuel lines DO NOT fit the 1951-53 Ford 1BA-9350 fuel pump which requires 1/8in NPT fittings.

TwoStep part numbers:

Ending with	Use this fuel pump	On this engine
- 59A	59A-9350 'glass bowl' type	1933-48
- 11A	11A-9350 'pepper pot' type	1933-48
- 7RA	7RA-9350 'glass bowl' type	1949-53
- RP	Remote pump	1933-53

#### Use Stromberg S-jets

Unlike some aftermarket needle & seat inlet fittings, Genuine Stromberg S-jets ensure that the fuel line fits the same depth into each carburetor, which is vital for good alignment. All new Genuine Stromberg 97 carburetors are S-jet equipped.

## 2. Tools required for installation

- > 11/16in AF open-end wrench
- > 1/2in AF flare nut wrench

## 3. TwoStep installation

### Step 1 - Preparation

- Start with the gaskets and carburetors on the intake manifold with the fasteners in place, but not fully tightened. If you are using the stock flathead fuel pump, fit it firmly to the pump stand, but install the stand loosely onto the intake studs. This makes installation a little easier.
- Slide one of the supplied brass compression fittings, followed by a brass ferrule, onto each of the bare fuel line ends. (See **Picture 2**)

### Step 2 - Installation

- If you are using a remote fuel pump, simply offer the fuel line into the carburetor inlet valves. If you're using a stock flathead fuel pump, offer the fuel line into the fuel pump outlet first (pulling the brass fitting back up the fuel line can help), then slide it into the rearmost carburetor inlet valve. (See **Picture 3**) The other ends should then slide into place. Manufacturing tolerances in the various components may add up to a small misalignment, so you may have to move the carburetors a little on the studs, or in some cases lift them off the studs to get the line into place. You should not need to bend the fuel line. Be patient! Ensure that the fuel line ends are centred in the S-jets and fuel pump outlet with the brass ferrules free to move on the line. Then start to tighten the fuel fittings just a couple of threads each at this point.

### WARNING!

Never use teflon tape or thread sealant on fuel line compression fittings. It may cause fuel leaks which may cause a fire resulting in property damage, serious personal injury or death.

- When the fuel line is attached, with the carburetors and fuel pump stand flat on their mounts, firmly seat the fuel line ends into the carburetor inlet valves and fuel pump. Check from above that the fuel line and carburetors are in good visual alignment. (See **Picture 4**) Now fix the carburetors and fuel pump stand firmly to the intake manifold. Then tighten all of the fuel line fittings (using the 1/2in flare nut wrench) to compress the ferrules, forming a good fuel-tight seal.

**Caution!:** When tightening the fuel line compression fittings, hold the carburetor fuel inlet with an 11/16in open-end wrench. (See **Picture 5**) This fitting must not be allowed to turn in the carburetor. DO NOT overtighten the fittings.

- Watch closely for signs of flooding when the fuel pump is first turned on or when the engine is first started. If flooding is apparent, stop the engine immediately. Check and tighten the fuel fittings. Clean up any raw fuel.

### WARNING!

Check the fuel line does not interfere with the throttle linkage. Any sticking, binding, or 'over-center' movement in the linkage could result in uncontrolled engine speed, property damage, serious personal injury or death.

## 4. Maintenance

- After an initial running period, and at regular intervals afterwards, check and retighten all fuel fittings as required. The presence of liquid fuel or vapor smell always demands further checks.

For further information or assistance, please contact your Genuine Stromberg dealer or email us direct at **tech@stromberg-97.com**

You'll find more information and pictures at the Stromberg Tech Center.

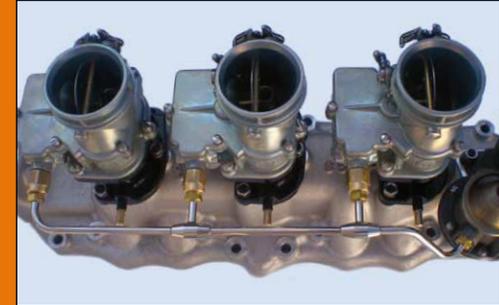
Log on to **www.stromberg-97.com**



Picture 2



Picture 3



Picture 4



Picture 5