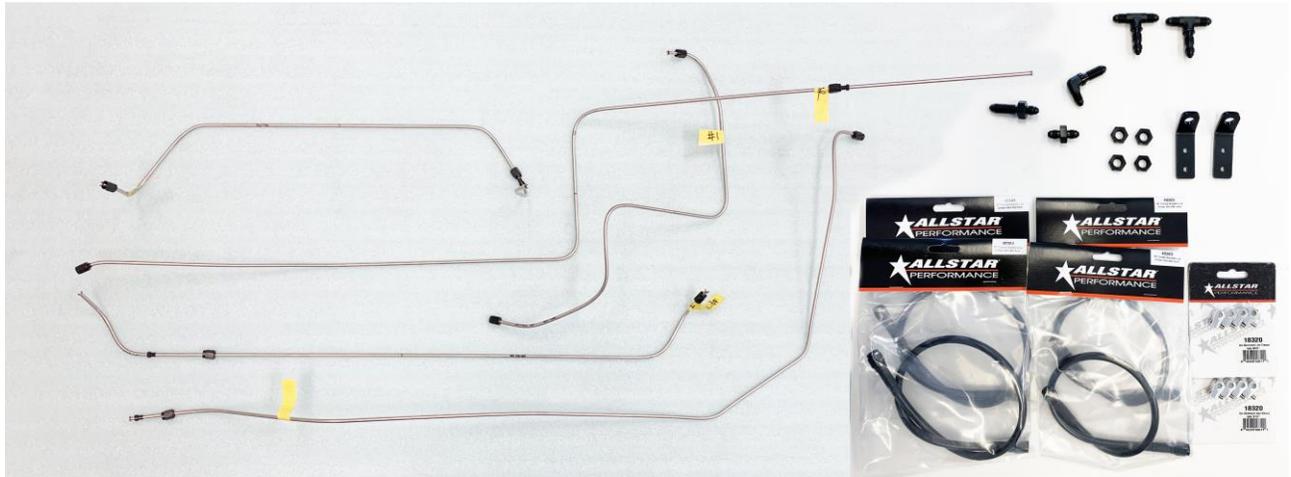


Instructional Guide

*Pro Touring Brake Line Kit
67-69 F-Body / 68-74 X-Body*



Speedtech

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Figure 1 1968 Camaro, features our brake line kit – Built by Speedtech Performance

Congratulations on the purchase of your new Speedtech Performance Brake Line Kit. Use only approved and appropriately rated jack and jack stands, be sure to take all safety precautions required to do the job safely and correctly. If you are unsure seek the assistance of a highly qualified workshop to assist you.

Read and understand all instructions thoroughly before you begin. For the most part, assembly and set up of your new Brake Line Kit can be done in a home garage with hand tools and basic welding equipment.

We enjoy seeing the progress our customers are making as they work through their builds so join the Team Speedtech group on Facebook and share your pictures and your story.

From everyone at Speedtech Performance we send you all best wishes for your project!

Installation Guide

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1.0 GENERAL INFORMATION

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1.1 This Guide

The following instructions are intended for professional installers and are guidelines only. Speedtech Performance assumes no responsibility for the installation of any of its products installed by others. All products are intended to be installed by qualified professionals.

NOTE! Some Items pictured may look different then the parts you have in the kit you received. For example, in this guide we have only used pictures of the Brake Line Kit. Your application may have a slightly different shape the part is functionally the same and is installed in the same manner described.

1.2 Overview

These instructions outline the Brake Line Kit. Some photos in the install process may vary slightly from your exact application.

We recommend you inspect all of your car's suspension components prior to installation of our parts, such as bushings and brake lines which may be worn and could cause adverse effects. Replace parts as necessary. We suggest you replace the upper axle housing bushings with factory replacement rubber bushings. This will allow the correct amount of articulation that the rear suspension requires.

The Speedtech coilover bracket is designed to slip over and bolt on to the existing shock bracket. Note that for determining left and right sides, the shock mount tabs are located inward.

1.3 Tools

Installation of the Speedtech Performance Brake Line Kit can be done on the floor with simple hand tools.

Additional things to have before you start:

- Socket / Wrench
- Floor Stands
- Floor Jack

2.0 CHECK IN PARTS AND HARDWARE

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2.1 Checking in the Order

Best practice will be to check in your order as soon as possible after receiving the order. To check in the order we have provided tables, these can be used as check lists for your order. If you discover anything missing form your order, call your authorized dealer as soon as possible.

2.2 Check in Tables

X	#	Description	Size
	5	Pre-Bent Lines	Labeled
	1	90° Bulkhead	ALL 50094
	1	Straight Bulkhead	ALL 50092
	2	Bulkhead "T"	FRG 483403
	4	Bulkhead Nuts	ALL 50098
	1	Union	ALL 50090
	6	Brake line clamps	ALL 18320
	2	Line Mount Brackets	Bent
	2	Rear Flex Lines	ALL 48363 – 18"
	2	Front Flex Lines	ALL 43364 – 21"

Optional Prop Valve Kit (#10531)

X	#	Description	Size
	1	Proportioning Valve - Wilwood	260-11179
	1	Proportioning Valve - Bracket	
	2	Bolt	¼ x 1 ¾
	2	Nylock Nut	¼
	1	Inverted Flare Plug	131X3
	1	NPT Pipe Plug	1/8
	4	Inverted Flare – Russell	643961

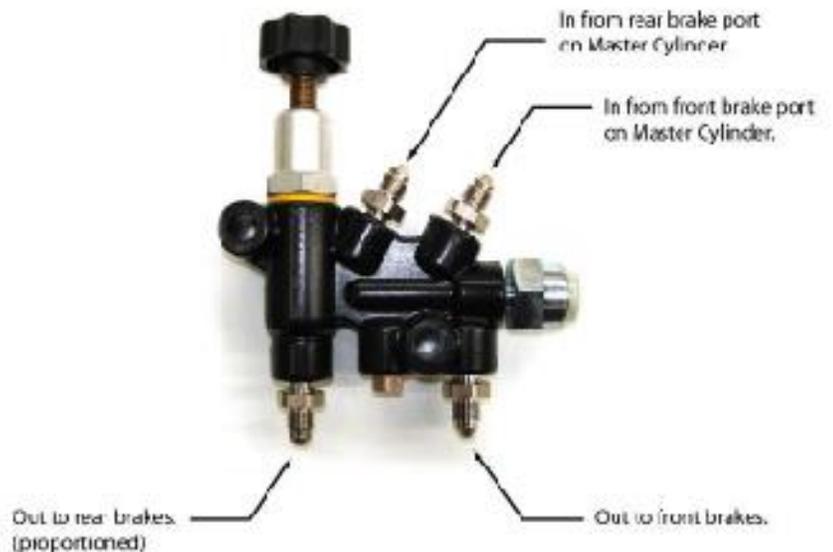
3.0 INSTALLATION

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3.1 VALVE ASSEMBLY

Install the line fittings into the proportioning valve Wilwood # 260-11179

Note brake line locations for in and out, front and rear.



Install the Proportioning Valve to the supplied bracket with the $\frac{1}{4}$ x $1\frac{3}{4}$ " bolts. Notice that the switch on the right side of the valve is intended to activate your rear brake lights. If you are planning on maintaining the factory pedal mounted brake light switch, remove the Wilwood switch and block the port with the supplied $\frac{1}{8}$ " NPT plug. The proportioning valve can now be installed on the firewall. If using a brake booster, you will need to bend the bracket down approximately 30 degrees to clear the booster and bend the ends of the brake line to match.



NOTE: We have **NOT** supplied brake lines that go from the master cylinder to the proportioning valve. This is due to variations in fittings and master cylinder designs. The easiest way to complete the connection would be to use braided flex lines that you can purchase from a performance parts retailer. If you have the proper tools, you can fabricate custom hard lines.



3.2 LINE INSTALL

Install the brake lines. Above you can see the 2 downward lines. The front brake line is in the foreground. Note which port the front line is connected to on the prop valve.

Note: DO NOT Tighten any of the fittings at this time. Keep them finger tight as you continue the installation, so you can adjust parts as needed to line up properly.



3.2.1 BULKHEAD / LINE INSTALL CONT.

Install the Bulkhead "T" into the sub frame mounting holes with the long leg through the frame. This shows the driver's side bulkhead T installed with both lines connected. You can see Front Line #1 on the left and Line #2 coming out of the fitting.



3.2.2 BULKHEAD / LINE INSTALL CONT.

Install the passenger side 90 deg bulkhead fitting. Connect Front #2 line.



3.2.3 BULKHEAD / LINE INSTALL CONT.

Install rear line #1 so that it runs down the firewall and onto the sub frame. This line continues along the sub frame and then out to the rocker panel.



3.2.4 BULKHEAD / LINE INSTALL CONT.

Install the union that joins rear line #1 to rear line #2 just past the end of the sub frame, see above. Here you can use the factory line clamps to hold the line in place.



3.2.5 BULKHEAD / LINE INSTALL CONT.

Insert a bulkhead "T" through the mounting bracket and attach rear line #2. Hold bracket against the frame rail with a Vise Grip or other style clamp. Attach rear line #3. This line runs over to the passenger side. The final open side of the fitting is where the rear brake caliper braided flex line will attach. Use rivets to attach the line clamp solidly to the frame.



3.2.6 BULKHEAD / LINE INSTALL CONT.

Install a line clamp in the center of line #3 and attach the right side of the line to the mounting bracket on the passenger side frame rail, see below.



3.2.7 BULKHEAD / LINE INSTALL CONT.

Once you have all the lines clamped and the mounting brackets attached to the vehicle, tighten the bulkhead fitting mounting nuts and all tube end nuts.

Keep in mind that the fittings are aluminum and damage easily. Do not cross thread or over tighten. They only need to be tight enough so that they don't leak. The tube nut and sleeve combined with the flared end will provide an adequate seal when installed properly.

3.3 FLEX LINES

Install the flex lines onto ends of the hard lines. The flex lines provided for both the front and rear caliper connection will need adapter fittings for the caliper side. All flex lines have the same end fittings, -3 JIC.

Because of the many different caliper designs, you will have to purchase the correct adapter fittings for your calipers from your performance parts retailer.



3.4 BLEEDING / FINISH

Be sure to properly bleed the entire brake system before driving the vehicle.

Note: Torque values within these instructions are only recommendations; it is the responsibility of the installer and/or owner to check with the Society of Automotive Engineers Bolt Torque Chart to verify proper torque amounts. Be careful not to strip threads out of any factory or Speedtech mount locations.

4.0 CONGRATULATIONS

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Congratulations on completing your project, we know you will get many years of enjoyment from your project. Please join the group [Team Speedtech](#) on Facebook. Team Speedtech is a community of like-minded individuals using Speedtech Performance products. The Group's members include customers, our dealers and factory employees - each with a passion for Pro Touring muscle cars. You can ask questions and get advice from the group members as well as share your experience. Within the group we enjoy seeing the videos and pictures during the progress of your projects so post up. We also encourage you to share pictures and videos of your finished projects out on the road, at the show & shine, on track or however you get enjoyment from your ride, we want to see it!

Thank you for choosing Speedtech Performance! We know you have a choice, and we appreciate that you entrust us with your chassis and suspension needs for you custom muscle cars.

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