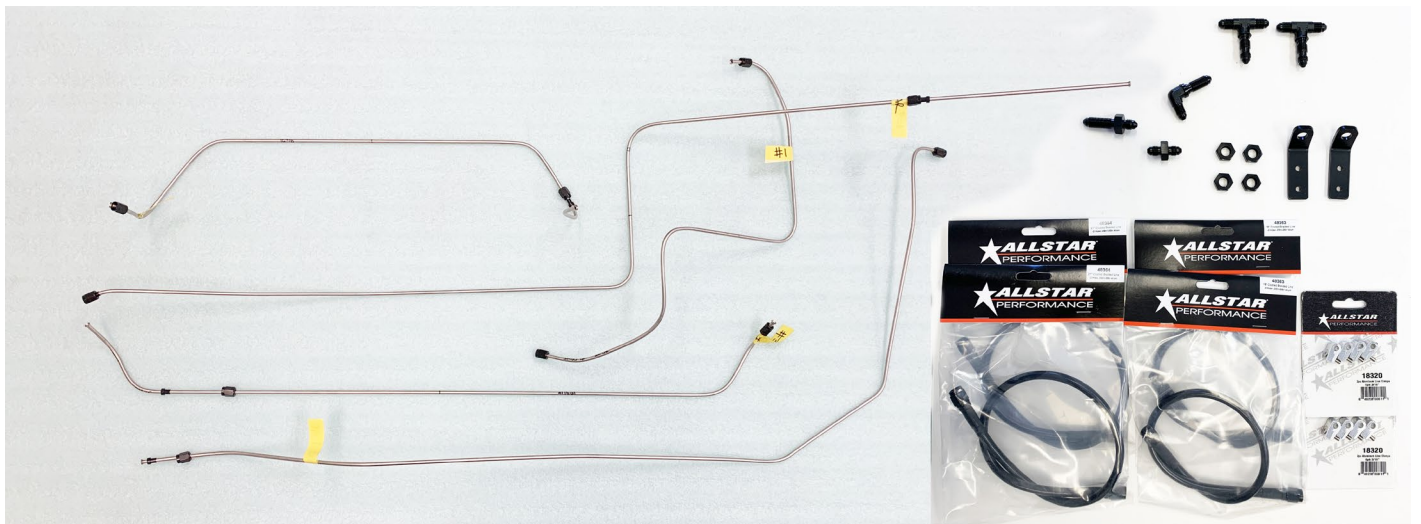


Instruction Guide

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



Speedtech
PERFORMANCE

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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, and be sure to take all safety precautions required to complete the job safely and correctly. If you have uncertainties, seek the assistance of a highly qualified workshop to assist you.

Read and understand all instructions thoroughly before you begin. Your main assembly and set up of your new brake line kit can be done in a home garage with hand tools.

Speedtech enjoys seeing the progress our customers are making as they work through their builds. Join the group, [Team Speedtech](#), on Facebook and share your pictures and your story.

Speedtech Performance sends you best wishes for your project!

TABLE OF CONTENTS

1.0	GENERAL INFORMATION.....	4
1.1	THIS GUIDE.....	4
1.2	OVERVIEW.....	4
1.3	TOOLS.....	4
2.0	CHECK IN PARTS AND HARDWARE.....	4
2.1	CHECKING IN THE ORDER.....	4
2.2	CHECK IN TABLES.....	5
3.0	INSTALLATION.....	5
3.1	VALVE ASSEMBLY.....	5
3.2	LINE INSTALL.....	6
3.2.1	BULKHEAD / LINE INSTALL CONTINUES.....	7
3.3	FLEX LINES.....	9
3.4	BLEEDING / FINISH.....	9
4.0	CONGRATULATIONS.....	9

1.0 GENERAL INFORMATION

[Back to Table of Contents](#)

1.1 THIS GUIDE

Thank you for purchasing your new Speedtech Performance brake line kit. Read through all instructions thoroughly before beginning and take all safety precautions required to do the job carefully and correctly. If you have uncertainty, seek the assistance of a highly qualified workshop. 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.

1.2 OVERVIEW

These instructions outline the brake line kit. Photos in the instruction process may vary slightly from your exact operation. For example, there are only 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.

Speedtech recommends you inspect all of your car's suspension components prior to installation and replace the parts as necessary. It is also suggested that you replace the upper axle housing bushings with factory replacement rubber bushings. This will allow the correct amount of movement that the rear suspension requires.

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

[Back to Table of Contents](#)

2.1 CHECKING IN THE ORDER

Check in your order as soon as possible. To check in the order, Speedtech has provided tables which can be used as check lists, as displayed in figure 2. All bolts and nuts are NF unless otherwise noted. Hardware comes in several boxes. If you discover anything missing from 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

Figure 2: Check in tables with amounts, descriptions, and sizes

3.0 INSTALLATION

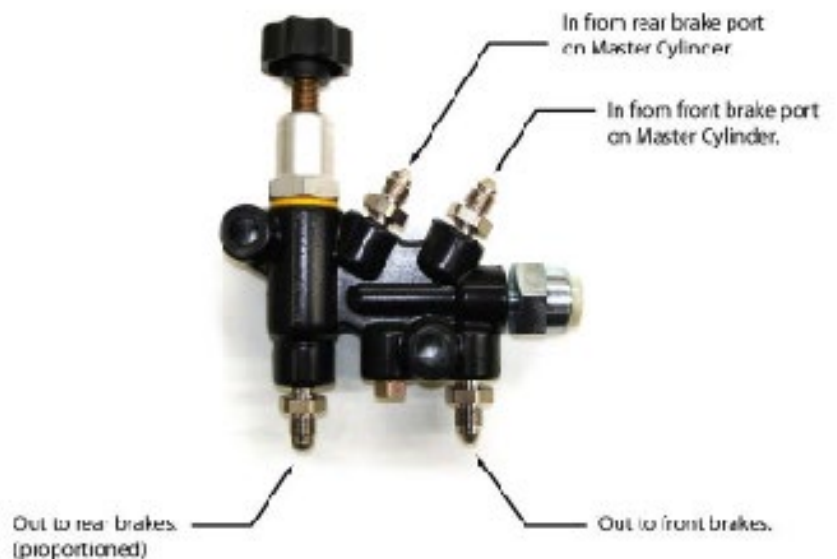
[Back to Table of Contents](#)

3.1 VALVE ASSEMBLY

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

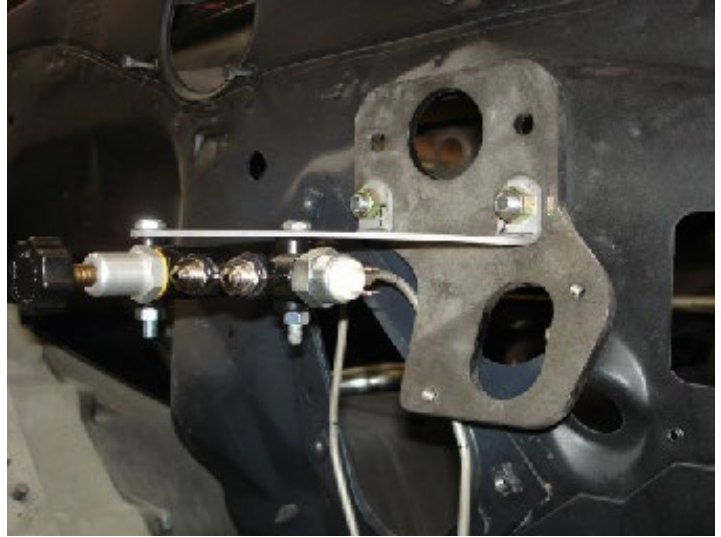
NOTE: Observe brake line locations for in-and-out and front-and-rear.

Figure 3: Valve assembly



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 you are 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.

Figure 4: Installing the valve



NOTE: Speedtech has 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 is 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.

Figure 5: Proportioning valve



3.2 LINE INSTALL

Install the brake lines. Figure 6 presents the 2 downward lines. The front brake line is in the foreground. Take note of 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.

Figure 6: Line install



3.2.1 BULKHEAD / LINE INSTALL CONTINUES

Install the Bulkhead "T" into the subframe mounting holes with the long leg through the frame, as shown in figure 7. You should be able to see front line #1 on the left and line #2 coming out of the fitting.

Figure 7: Driver's side bulkhead T installed with both lines connected



Install the passenger side 90 degree bulkhead fitting. Connect front #2 line.

Figure 8: Passenger side



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

Figure 9: Rear line #1



Install the union that joins rear line #1 to rear line #2 just past the end of the subframe, see figure 10. You may use the factory line clamps to hold the line in place.

Figure 10: Installing the union



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.

Figure 11: Inserting a bulkhead "T" through the mounting bracket



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 figure 12.

Figure 12: Line clamp



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.

NOTE: 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.



Figure 13: Flex lines

3.4 BLEEDING / FINISH

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

NOTE: Torquing 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

[Back to Table of Contents](#)

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 customers, dealers, and factory employers that have a passion for pro touring muscle cars and are using Speedtech Performance products. You can ask questions and get advice from the group members and share your experience. Everyone enjoys seeing the videos and pictures during the progress of your project and Speedtech encourages you to share them!

Thank you for choosing Speedtech Performance and entrusting us with your brake line kit for your custom muscle car.

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