

# HoseTechniques® Silicone Vacuum Hose Installation Manual

## Mazda Miata 1.6L/1.8L M1/M2 Kit P/N 14805-xx

(Throughout this installation manual, you'll see **SVH**, which is our abbreviation for **Silicone Vacuum Hose**)

**NOTE:** Before installing, if you are not familiar with your engine, or prefer not to install the hose yourself, take this kit to an engine tuning shop, or a car stereo installation shop and have them do it for you; or refer to your factory workshop manual for more details concerning replacement of your vacuum hoses and other hoses under the hood.

**IMPORTANT NOTE: FOR THIS KIT, SOME ORIGINAL PARTS MUST BE TEMPORARILY REMOVED TO BE ABLE TO REACH CERTAIN VACUUM LINE SECTIONS. THESE REMOVED PARTS SHOULD BE REPLACED AFTER YOU COMPLETELY FINISH INSTALLING & INSPECTING ALL NEW HOSES.**

### Kit Contents:

Qty	Size/Description
8 ft	03.5mm <b>SVH</b>
7 ft	04.0mm <b>SVH</b>
11 ft	06.0mm <b>SVH</b>
3 ft	08.0mm <b>SVH</b>
1 ft	10.0mm <b>SVH</b>
1 ea	HoseTechniques SuperCutter™ (for smooth trimming)
1 ea	HoseTechniques SuperSlitter™ (for slitting for slit and cover uses)
2 ea	HoseTechniques decals (oval shape, white or black)
2 ea	HoseTechniques decals (10" long, white or black)
1 pak	Tie Wraps in matching color (100 pcs)
1 ea	This Instruction Manual

### BEFORE YOU BEGIN!

1. Review our website [www.hosetechniques.com](http://www.hosetechniques.com) to study the 3 different Miata installations (one will be similar to yours).
2. Be sure engine is off, ignition key is removed from vehicle, & emergency brake is on.
3. It is important to have a clean engine before installing silicone vacuum hose. This enhances your engine as well as becoming the perfect background for your HoseTechniques' **SVH**.
4. Be careful not to spill radiator fluid on the ground when replacing radiator overflow hoses.
5. Some tools/items to have ready while installing **SVH** are:  
Hose Cutter (example: Craftsman Handy-Cut or use kit's HoseTechniques SuperCutter, included in your kit), SuperSlitter (included in your kit), Pliers, Fender cover, Clean cloths, Rubbing alcohol (for cleaning). . . . and good lighting!

### HOSE INSTALLATION TECHNIQUES & TIPS

Carefully study your engine to locate the hoses you plan to replace. Then, start removing each OEM hoses one at a time, replacing it with **SVH**. Don't pre-cut all the hose - **CUT EACH PIECE OF HOSE ONLY AS YOU NEED IT, ONE PIECE AT A TIME!** Do not replace any Brake booster Vacuum Lines.

Suggested Uses	Suggested Hose I.D. Sizes
Intake Manifold (small fittings)	03.5mm
Windshield Washer Hose	04.0mm
Boost Controllers (if installed)	04.0mm or 06.0mm
Intake Manifold (large fittings)	06.0mm
Throttle and/or Cruise Control Cable	06.0mm (Use enclosed SuperSlitter tool to slit the <b>SVH</b> )
Radiator Overflow Hose	06.0mm or 08.0mm
Hood Hold Up Rod	06.0mm or 08.0mm
Intake Pipe	08.0mm (includes aftermarket systems & some radiator overflow)
Misc covers of hard lines, etc.	10.0mm (do not use as a brake booster hose)

## HOSE INSTALLATION TECHNIQUES & TIPS (con't)

Silicone Vacuum Hose is to be used only for air or vacuum, with these exceptions:

As replacement for windshield washer hose (usually 04.0mm), radiator overflow hose (usually 06.0mm) and 06.0mm or 08.0mm **SVH** to cover the throttle & cruise control cables. Whenever you want to use **SVH** as a "cover", use the supplied SuperSlitter to slit the hose. To decide the proper hose I.D. (06.0 or 08.0mm), cut a 1/2" section of each hose in your kit; then slit each one with our SuperSlitter tool. These will help decide which size to use to cover the throttle and/or cruise control cable. After selecting the correct size, carefully measure the cable lengths you want to cover; cut the proper size hose(s) to that length, then use the SuperSlitter for slitting. Cover the throttle/cruise control cable with the slit hose and make sure it fits correctly before proceeding. The supplied tie wraps can be used to secure the throttle cable and cruise control cable silicone hose covers that you make from this kit.

The following techniques will enhance the looks of your final installation and can possibly help your points when your vehicle is judged in a contest:

- A. Use enough hose on each installation so there is a nice smooth, natural, flowing bend of hose on each section. Sharp bends can collapse when heated up.
- B. Make your hose end cuts very carefully so as not to have any jagged ends showing. Jagged ends can split.

All new **SVH** should be installed without sharp bends. After the engine heats up, **bends that are too tight could collapse closing off the vacuum line**.

Caution: If the new **SVH** fits too loose on a particular fitting, then check to see if a smaller I.D. **SVH** is in your kit. If there isn't one, you may opt to use the supplied tie wraps to tighten the connection. But if that doesn't work and it is still too loose, re-install your original hose and contact HoseTechniques for a different size hose I.D.

**TIP!** If you intend to slip the **SVH** over the hood hold-up rod, we highly suggest that you carefully remove the hood hold-up rod from the vehicle and install the hose on it from the bottom up. You can use a mild solution of liquid dishwashing soap as a lubricant to help slide it on.

Hard lines and high-pressure lines that cannot be replaced with **SVH** usually can be covered with a section of vacuum hose that is slit along the length of the hose. You can use tie wraps to hold the hose in place. Extra **SVH** can be ordered from your HoseTechniques dealer or directly from HoseTechniques.

On cars that have a metal loop-style oil dipstick, use pliers to gently open the loop wide enough to be able to slide on the **SVH**. Where the loop comes back around, you will need to cut the **SVH** on an angle to make a nice finish to the hose end in this very visible area.

### HEADING TO THE FINISH LINE!

After you have completed your installation, go over all **SVH** again to check for loose connections. Slightly loose connections can be made tighter by using the color matched tie wraps included in your kit.

When you are sure all the connections are snug, ensure the emergency brake is on and the transmission is in neutral or park, then start the engine. With the engine on, once again check for loose **SVH** and make sure there are no leaks. After releasing the brake, if the engine revs and drives normally, you are finished!

We hope you enjoy HoseTechniques **SVH** in the color of your choice and your clean engine as well. Let us know if you enter car shows and if you can, email or mail us your installation pix, both before and after.

**NOTE:** Like anything else, **SVH** subject to dirt from normal driving and frequent car shows. To keep your **SVH** clean, periodically use just a little rubbing alcohol and a clean lint free cloth to clean away dirt that may have gotten on the hose.