

HoseTechniques™ Silicone Vacuum Hose Installation Manual

Mazda Miata (NC) 2.0L Kit (2006 – 2008) P/N 14806-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 (panels covering the windshield washer lines) 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:

<u>Qty</u>	<u>Size/Description</u>
7 ft	04.0mm SVH
4 ft	06.0mm SVH
2 ft	08.0mm SVH
3 ft	10.0mm SVH
1 ea	Straight Fitting 3/16" x 3/16"
1 ea.	Y-Fitting 3/16" x 3/16" x 3/16"
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 to study the Mazda Miata (NC) 2.0L (2006 – 2008) SVH installation (this car should be the same as yours, you may get some ideas from the pictures).
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 the proper SVH size. Don't precut 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.

<u>Suggested Uses</u>	<u>Suggested Hose I.D. Sizes</u>
Windshield Washer Hose	04.0mm
Hood Hold Up Rod	06.0mm
Radiator Overflow	08.0mm
Cover for Valve Cover Breather Hose	10.0mm (covers the hard plastic tube - Slit&Groom)

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) and radiator overflow hose (usually 08.0mm). For other applications, cut a 1/2" section of each hose (06.0mm and 10.0mm) in your kit; then slit each one with our SuperSlitter tool. These cut and slit samples will help decide which size to slip over the hood hold-up rod (06.0mm) and to cover the valve cover breather hose (10.0mm).

After selecting the correct sizes, carefully measure the length of the item you want to cover; cut the proper SVH size hose(s) to that length.

To install the 6.0mm SVH on the hood hold-up rod, we highly suggest that you carefully remove the hood hold-up rod from the vehicle and install the SVH hose on it from the bottom up. You can use a mild solution of liquid dishwashing soap as a lubricant to help slide the SVH on. Do not worry about using too much liquid soap; any excess soap can be easily washed off. The hood hold-up rod will use 2 sections of 6.0mm SVH. The short section (3-7/8") will be slid on first. The longer section (37-3/4") will be slide on last. Look at the picture on www.hosetechniques.com to see how the final installation looks. Remember the factory rubber sections (2 pcs.) will be removed before installing SVH.

The valve cover breather hose will use approximately 27.0" of 10.0mm SVH that must be slit using the Slit 'n Groom Technique. The supplied tie wraps can be used to secure the new SVH cover on to the hard plastic hose. Keep the slit edge of the SVH facing down, to enhance the looks.

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 they become hot.
- B. Make your hose end cuts very carefully so as not to have any jagged ends showing. Jagged ends can split.

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.

Other hard lines and high-pressure lines that cannot be replaced with SVH can usually 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. See Slit 'n Groom© Technique below.

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 is 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.

Slit 'n Groom© Technique

This is a technique developed by HoseTechniques to utilize SVH as a cover for engine wires, hard lines, hood/trunk release cables, spark plug wires, and battery cables. Select the item you want to cover, then decide which size hose will best cover this part. A good way to determine the proper size is to cut a short section of SVH with the SuperCutter, then use the SuperSlitter to slit the SVH open. Use this slit SVH to test fit on the part to be covered. Make sure the hose fits snugly all the way around the part. It is acceptable to have a slight gap if the gap can be turned down so it cannot be seen. In most cases, silicone hose, after being slit, has sufficient memory to stay in place around the object to be covered, however to completely secure the slit hose in place, we suggest to use color matched nylon tie wraps to keep the SVH from moving.