mods4cars

INSTALLATION

smartTOP

STHFMA2

Comfort Roof Control Module for

- Mazda MX-5 RF

v1.0

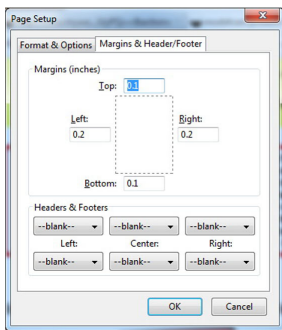**Further information and manuals for all products can be found on our web site**

www.mods4cars.com

We explicitly point out that all functions of this control unit should be used only while exercising caution and responsibility. We can NOT be held liable for any damage or injury caused by installing or using this product.
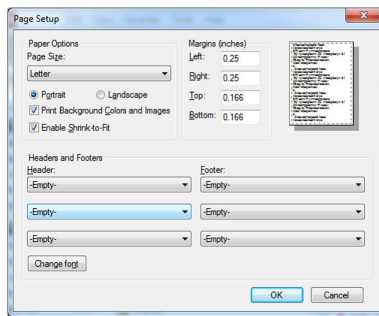**PLEASE READ THE COMPLETE MANUAL CAREFULLY BEFORE USING THIS PRODUCT.**

Important Information. READ BEFORE INSTALLING!

Firefox

Internet Explorer

PRINTING THIS MANUAL
This manual is designed to produce completely filled pages. In order to get best print results, simply set the borders to minimum settings in the browser's page setup menu and disable headers and footers.

Activate the print preview and if necessary decrease the zoom level until all pages are shown correctly.

ALL IMAGES CAN BE CLICKED FOR FULL SIZE in the browser.

TROUBLE SHOOTING - NEED TO CONTACT US?
If you run into any problems after installing the module, please go over the manual again in great detail, clicking every photo for full size!
We now have a full **Knowledge Base with Support Ticket system** available online at
www.mods4cars.com/support

If you need to contact us, the best and fastest way to do so is by **opening a support ticket there**

This module comes with our USB Field Upgrade and Configuration Port! We recommend connecting it to a computer BEFORE YOU INSTALL and using our support app "m4cconnect" to do a quick firmware update check. M4cconnect as well as all other information regarding USB update and configuration can be found at
www.mods4cars.com/usb. You can even configure and activate your favorite module functions and settings on screen before the module is installed in the car! It is a good idea to permanently install the USB cable with the module in the car, leaving the computer plug in an easily accessible spot for later use with a Wifi/3G/4G connected laptop.

The green DATA LED signals a correct installation and shows the status of the module.

LED OFF

- Ignition OFF: CAN bus and module are in low-power standby mode. This is normal.
- Ignition ON: Either power connection or CAN bus connection is interrupted. Check the two wire taps for power and ground as well as the CAN connectors. Also make sure the CAN polarity is correct.

LED either dimly lit or flickering erratically

- A dim or flickering LED is an indicator for interrupted or missing POWER or GROUND connections. The module will get some leakage current from the CAN bus which causes the LED to stay dimly lit or flicker erratically. See previous paragraph about wire taps if applicable!

LED permanently ON

- Module is connected to CAN and power, but does not receive the correct data. Recheck all connections thoroughly. A VERY COMMON source of problems is reversed polarity on the CAN wires. Double-check the POLARITY and wire-colors of all connections!
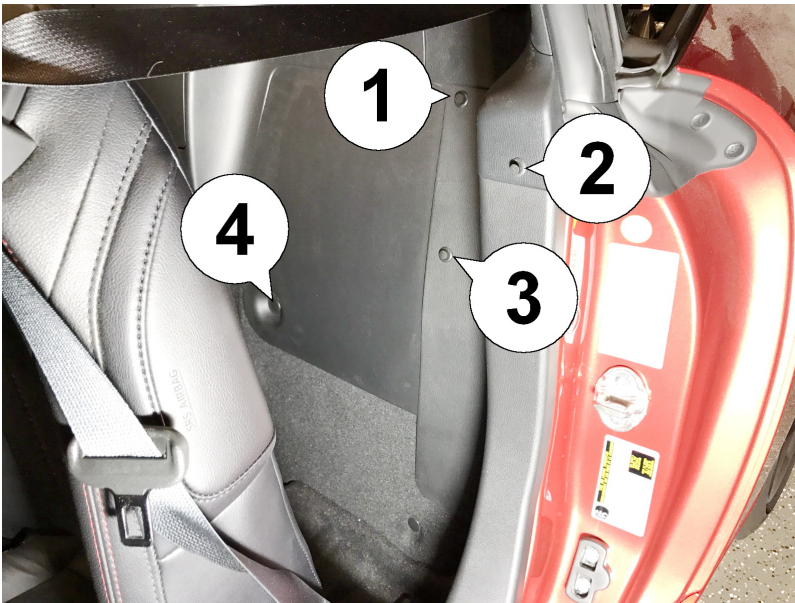
LED blinks

- CAN bus is active, the module is connected correctly and ready for use.

Installation - Steps 1-3

1. Fully open the convertible top, then start closing it and stop when it is in the service position as shown. **IMPORTANT: Turn the ignition fully off before continuing!** Move the left seat all the way forward and up. Remove the door sill by pulling upward. It is only snapped into place.
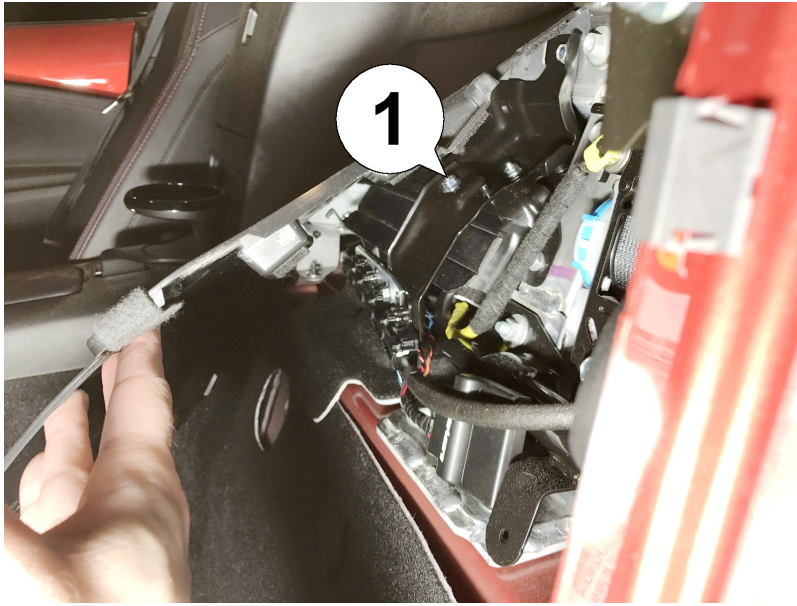

2. Remove the plastic rivets (1) through (3) by pulling the center pieces out first, then grabbing the ring to pull the actual rivet out. Rivet (4) is just a simple plug.
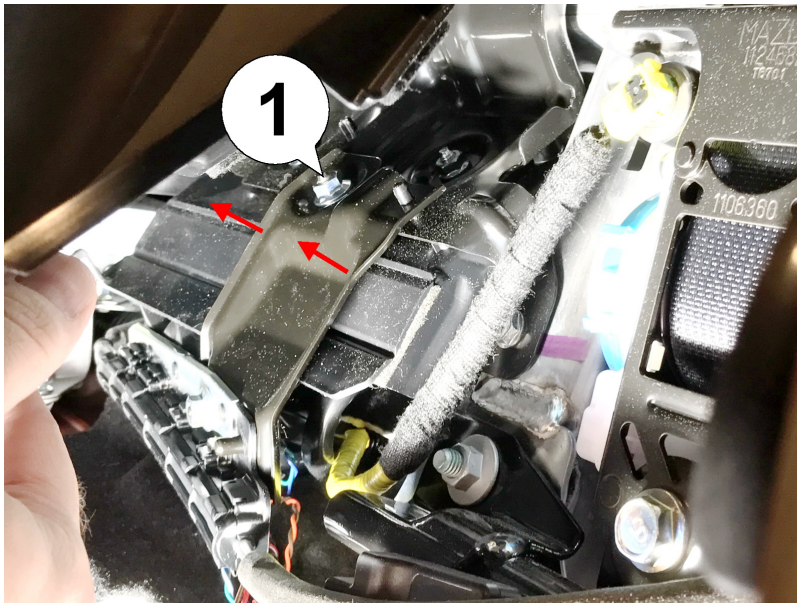

3. Remove the side piece by first gently pulling out on the left lower corner (1), then downward (2) and lastly towards the front of the car (3). It is also snapped into place with a few more metal clamps.
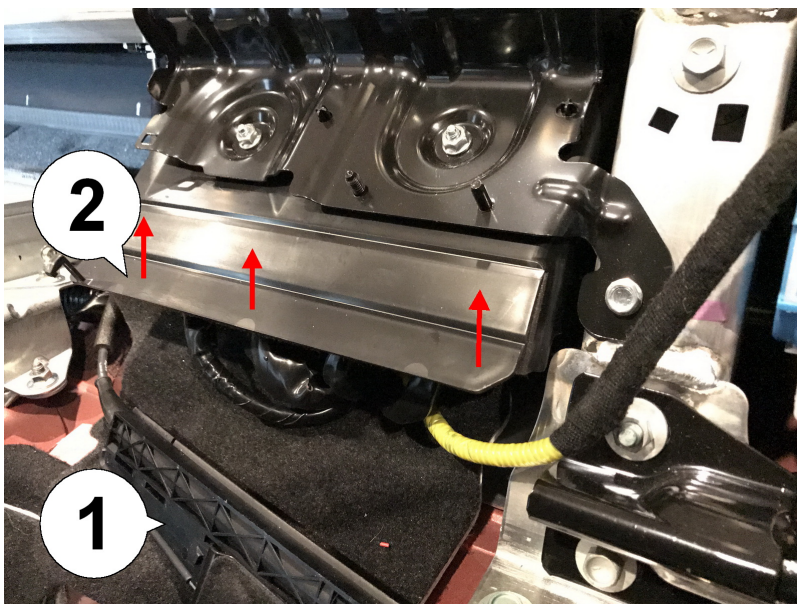
Installation - Steps 4-6

4. Now it is possible to pull the back wall cover forward and look underneath. Some black metal holders with a very distinctive silver nut on top (1) should be visible.
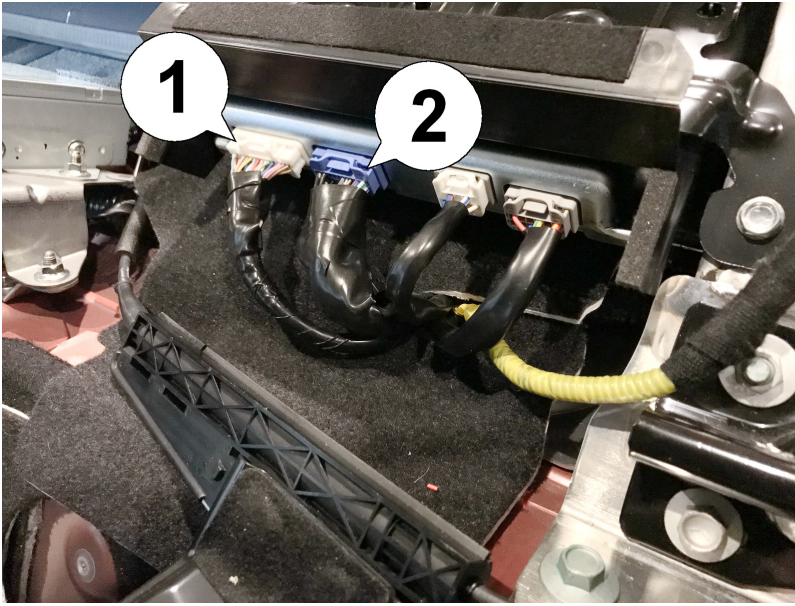

5. Remove the nut (1), then flip the metal holder down by first pulling it off the bolts (see arrows). Directly under it is a plastic lid with two folds/hinges.
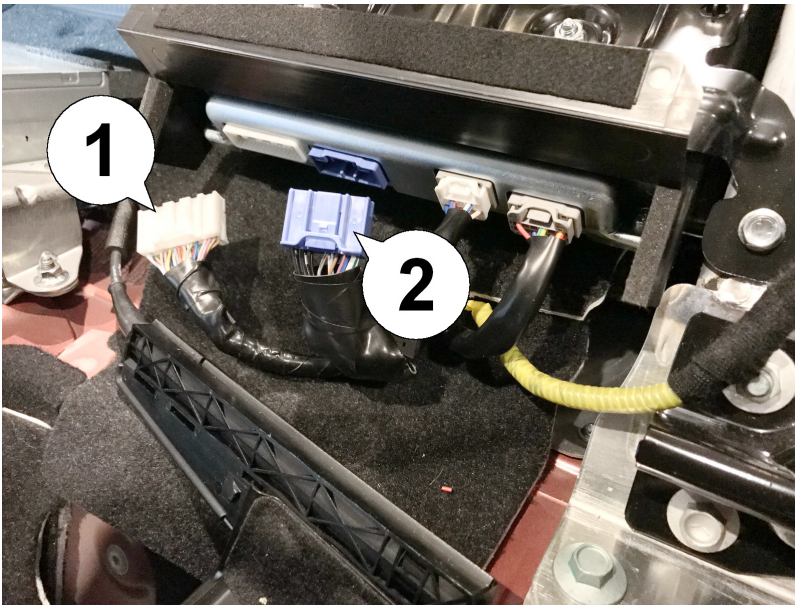

6. Shown here the piece flipped down in the last step (1). Now fold the plastic covering (2) upward in the direction of the arrows. Directly underneath is the convertible top controller. The covering can be hooked on the left side so it stays open.
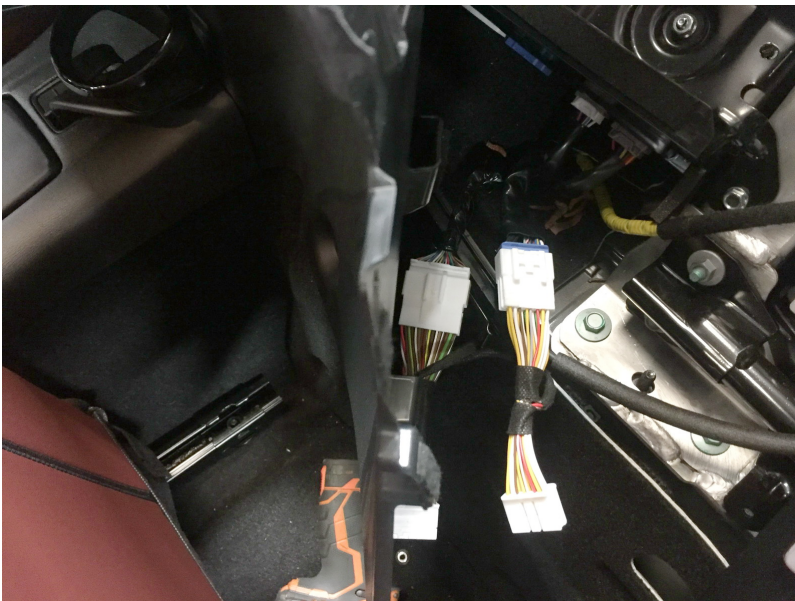
Installation - Steps 7-9

7. Remove the leftmost white plug (1) and the adjacent blue plug (2). They are locked into place by latching mechanisms. Push down on the tabs in the middle while pulling. If necessary, inspect the corresponding plugs on the module harness for a visualization of that mechanism.
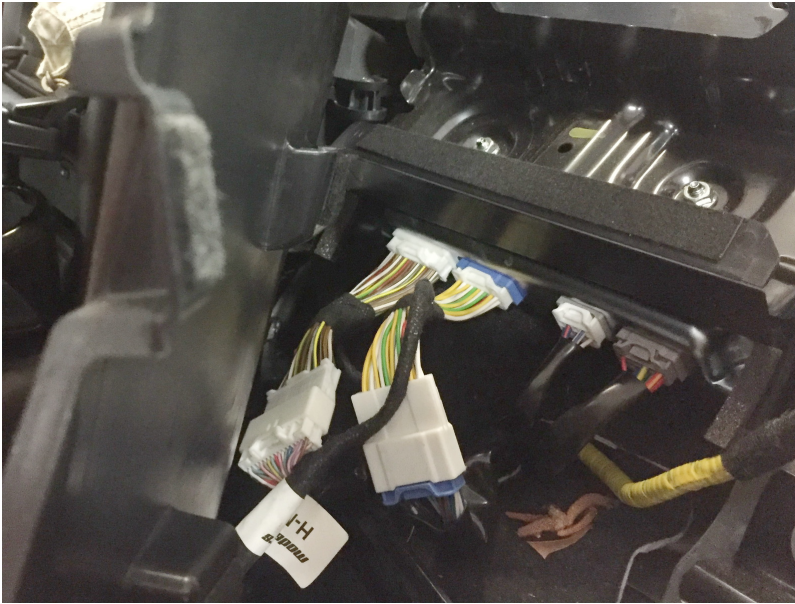

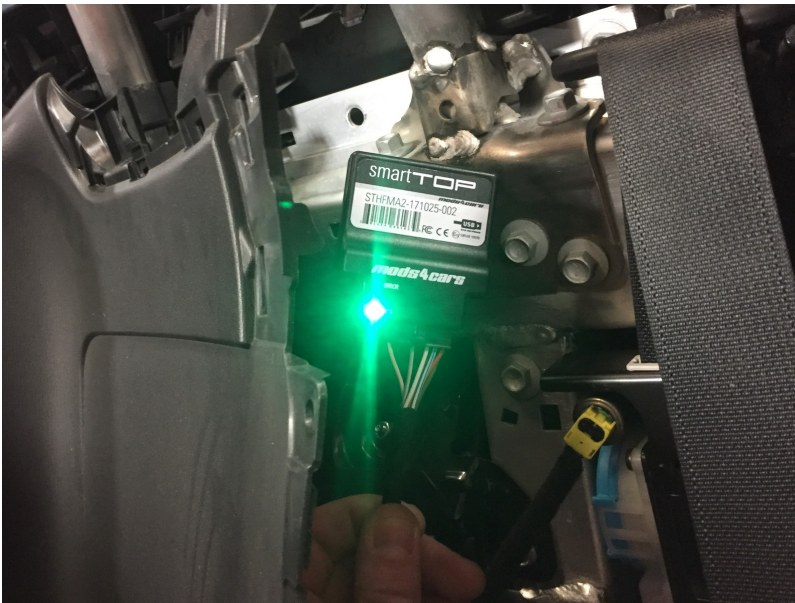8. The white (1) and blue (2) plug shown in disconnected condition.

9. Insert both plugs into the matching sockets on the wiring harness. Make sure they latch into place securely.
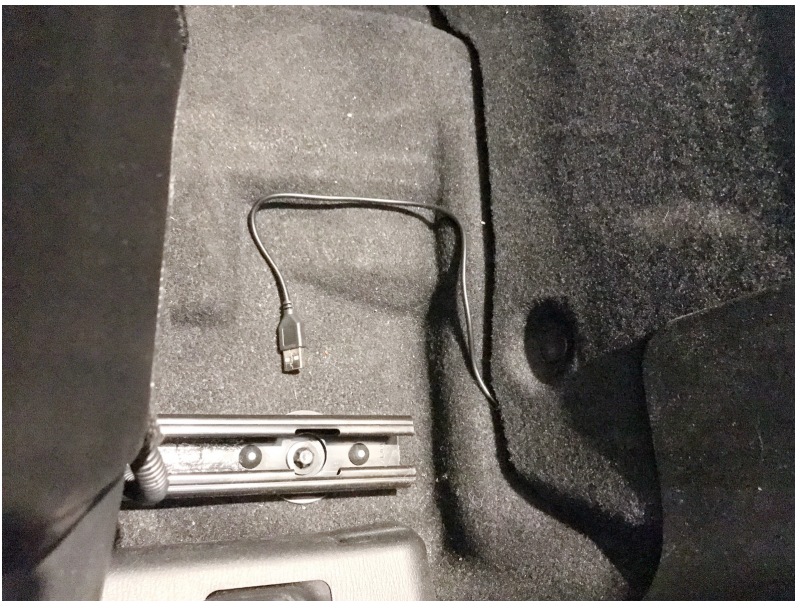
Installation - Steps 10-12

10. Now insert the plugs into the sockets on the top controller. Again make sure both latch into place securely.

11. Connect the smartTOP module to the harness and turn the ignition fully on. The DATA LED should now blink to indicate a successful installation. Turn the ignition back off and re-assemble everything and configure the module according to our Operation and Programming manual.

12. We recommend connecting the USB cable and running it down to an accessible area in order to be able to use a laptop for easy updates and configuration later.