

MMR Automatic Paddle Shifter Kit

Users Guide

v1.0





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Introduction

This Kit allows you to Bolt on a Sparco (or Other 6 bolt Steering wheel) to your 2018+ Mustang Equipped with the A-10 Automatic and still have full use of your steering wheel menu buttons and paddle shifters.



The kit includes:

High Quality Paddle Shifter switches with magnets for a crisp metallic ‘click’.

Carbon Fiber Paddle Handles

Carbon Fiber Steering Wheel Adapter

Steering Wheel Control Button Module

Plug and Play Install (no tuning required)

Requires Sparco, OMP, or MOMO 6 bolt style Steering Wheel and adapter

Installation

The MMR Automatic Paddle Shifter Kit includes a plug and play harness that is compatible with all 2018-2022 V8 Mustangs equipped with automatic transmissions.

To install the harness, first disconnect the negative battery cable.

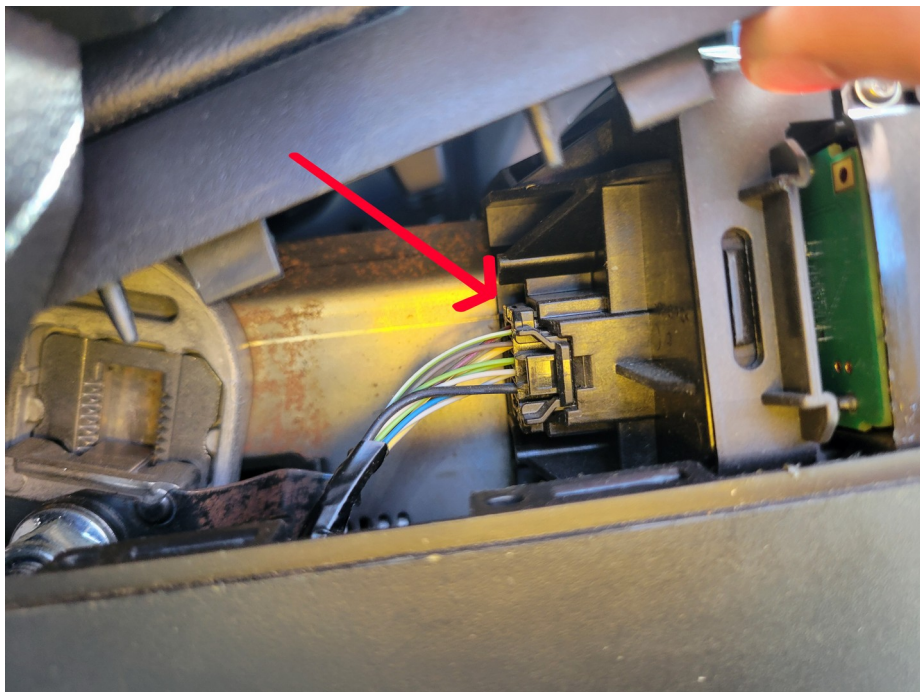
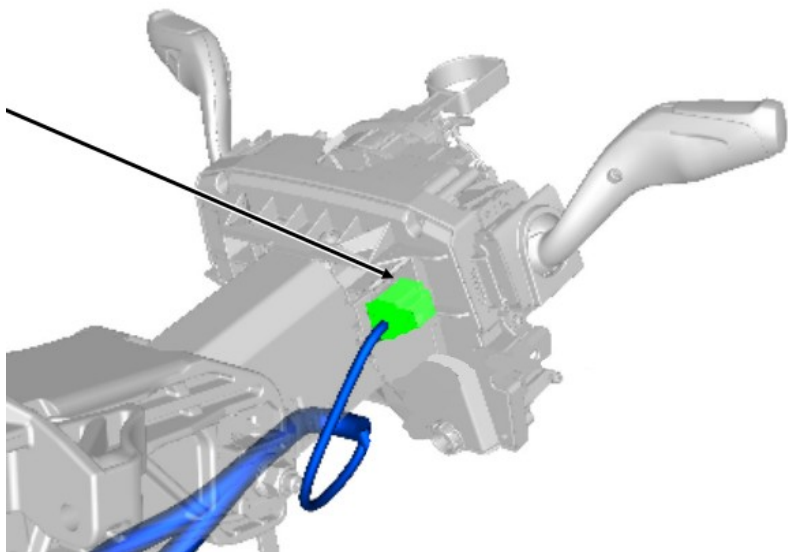
Next, you will split the steering column cover/housing. Locate the screws on the underside of the steering column, remove screws:



Once the screws have been removed, push in the sides of the cover along the seam to release the clips and open the column cover. There is no need to completely remove the cover, simply swing the upper portion of the cover up enough to install the MMR adapter box and wiring.



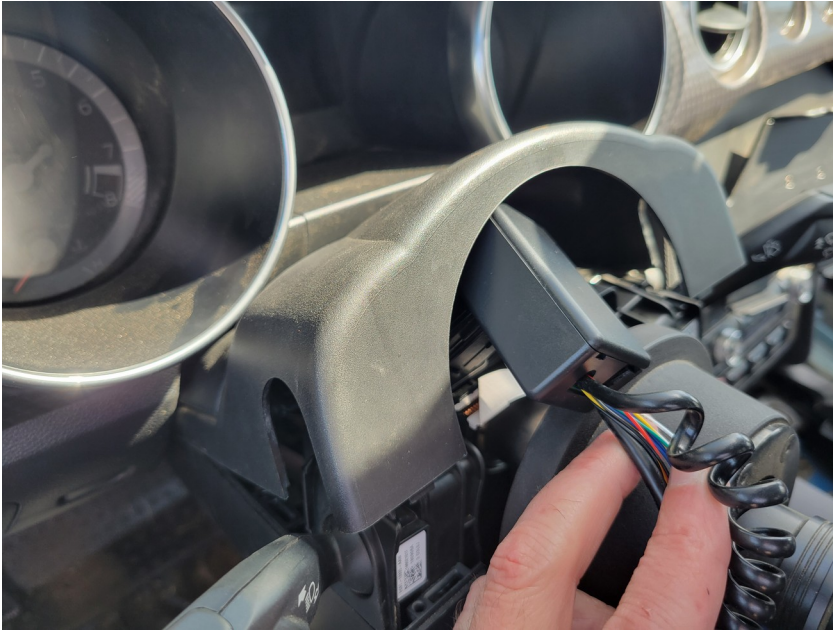
With the column cover opened, unplug the factory SCCM connector from the column.



Plug the factory harness SCCM connector into the MMR adapter box.



Install the MMR adapter box and wiring into the steering column, this is most easily accessed through the front of the column cover.



Plug the connector from the MMR adapter box into the factory SCCM module



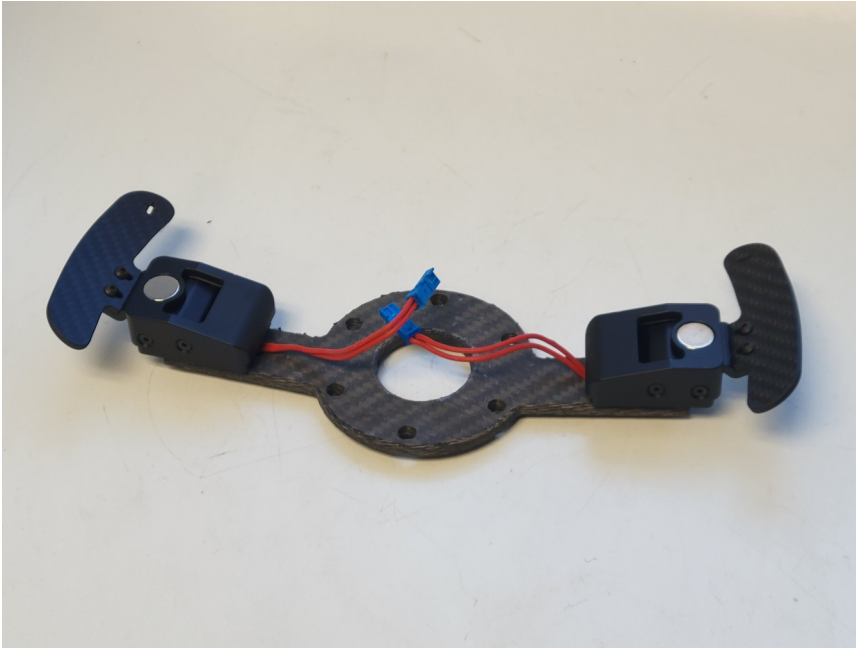
Pull the coiled wire and SWC wiring through the back of the column cover



Locate the SWC module in a location that you can easily access the buttons.

Once the SWC module and coiled wiring has been routed, it should be secured so that it does not interfere with access to any of the pedals. MMR recommends using zip ties to fasten the harness to the factory harness and away from the pedals and footwell.

Install the paddle shifters onto the MMR paddle shift mount using the supplied hardware. Note that there are different up and down switches (marked with a + and – on each of the paddles). As shipped, the paddle switches have ‘short’ paddles installed, longer paddles are included in the kit and can be installed depending on your personal preference. Install the paddle shift mount to the steering wheel hub adapter, it should be sandwiched between the hub adapter and the steering wheel.



Route the coiled wire to the paddle switch connectors. Note that the connectors are labeled “U” and “D”, with “U” connected to the upshift paddle, and “D” connected to the downshift paddle. Connect each of the connectors to the paddle switches.

Reconnect the negative battery cable, the SWC status led will illuminate when power is first applied and stay illuminated for a short period of time.

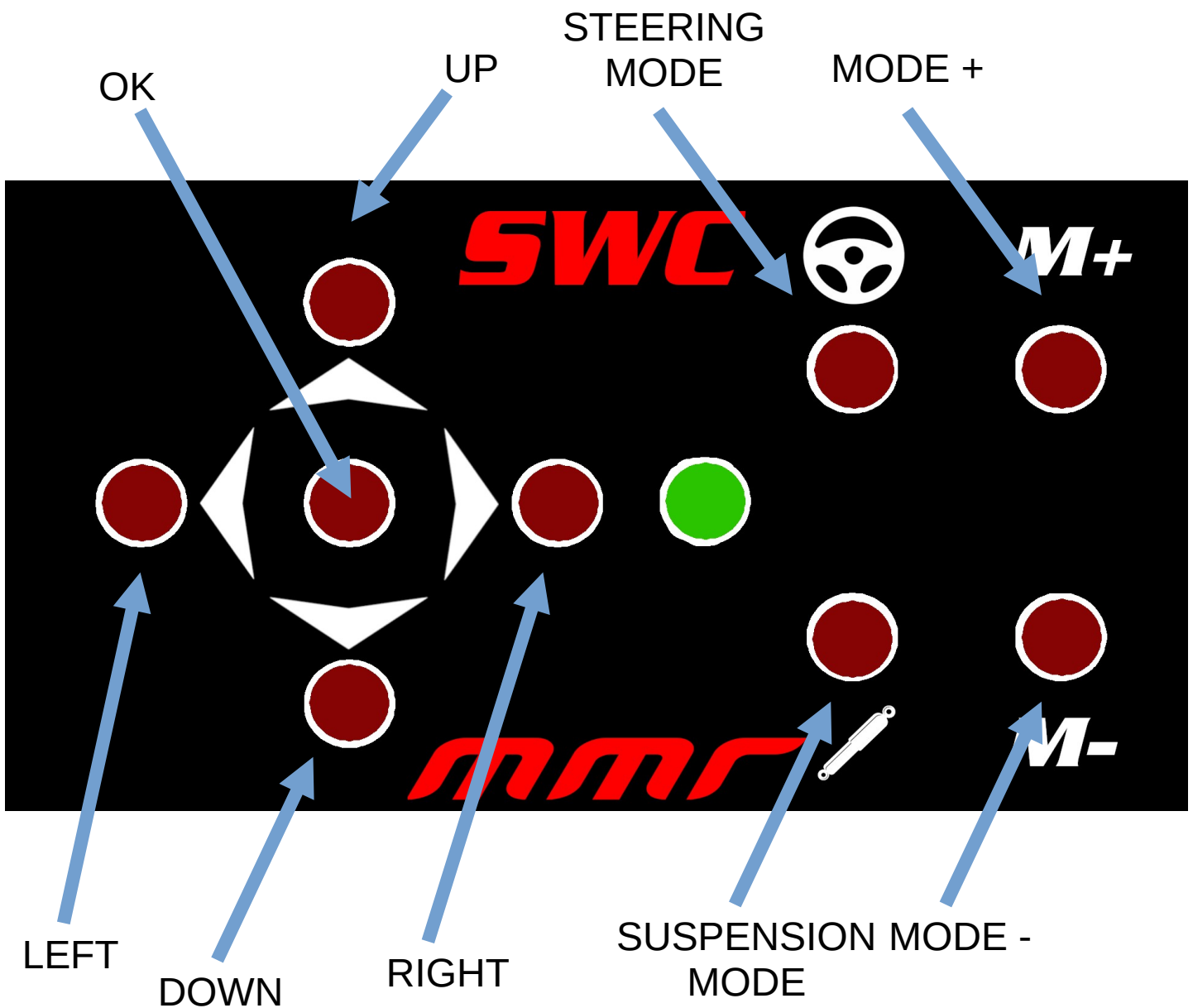
Installation of the kit is now complete.

SWC Module Operation

Once the Automatic Paddle Shifter Kit has been installed, you can use the SWC module to control the instrument cluster display.

Pressing any of the buttons will wake the module (the module is awake when the status LED is turned on). If the module is left inactive for a short period of time, it will return to a low power mode and the status LED will turn off.

The following functions are available on the SWC module:



Button	Function
UP DOWN LEFT RIGHT	Allow you to navigate menus on the instrument cluster display
OK	Used to select the current menu item on the instrument cluster.
STEERING MODE	Used to cycle through the steering modes**
SUSPENSION MODE	Used to cycle through the suspension modes**
M+	Used to cycle through the various driving modes**
M-	Used to cycle through the various driving modes**

** Does not apply to Mustang GT Applications.

Status LED

In the case that the module is unable to communicate with the vehicle, the green status light will blink (twice). See the troubleshooting section of this users guide for more information.

Firmware Updates

The SWC module provides the capability of OTA (over the air) firmware updates. In the case that new firmware is released, you can use the following steps to update your device:

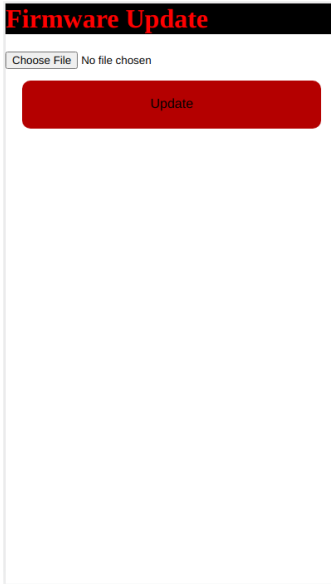
In order to put the system into firmware update mode, press and hold the ‘OK’ button for at least 10 seconds, then release the button. The status light should begin to blink (in a single blink pattern) indicating that the module is in firmware update mode. Note that while in firmware update mode, the steering wheel controls are not functional.

Once the device is in firmware update mode, you can connect to the system using any wifi capable device (cell phone, laptop, tablet etc.) Go to your device WIFI configuration screen and connect to the MMR-1234 (where 1234 is a combination of letters and numbers) systems WIFI connection.

Once you have connected to the WIFI connection, open a web browser (chrome, safari etc) and go to the following address:

<http://192.168.4.1/update>

The Firmware update screen will be displayed



Select the “Choose File” option and select the firmware update file (supplied by MMR). (Note that flashing an incorrect file can permanently damage your device!) Once you have selected the firmware file, select the ‘Update’ option. Once the update has completed, you will be disconnected from the systems wifi connection and the device will restart.

Troubleshooting

Following are solution to some common issues you may encounter with your device:

Symptom

The SWC module does not appear to be powered up.

Solution

The SWC module will put itself in a low power mode following 60 seconds of inactivity. During low power mode the status LED is turned off. Pressing any of the buttons will wake the SWC module.

Symptom

The SWC module is flashing (twice) the status LED after pressing buttons

Solution

This means that there is a CANBUS communication error with your vehicle. Confirm that the SCCM connector is correctly connected to the factory harness and SCCM module. Try removing and re-attaching the connectors.

Symptom

The SWC module is flashing (once) the status LED.

Solution

The SWC module is in firmware update mode. Pressing any button on the SWC module will exit firmware update mode and return to normal operation.

Technical Support

To obtain technical support for your device, please contact:

Modular Motorsports Racing

Phone: 805-383-4130
8AM – 5PM PST

Email: support@modularmotorsportsracing.com

Website: <http://www.modularmotorsportsracing.com>