

## Mazda MX-5 (NC) SmartFlasher module installation guide, operation manual

### OVERVIEW

SmartFlasher module is designed to replace the OEM Mazda flasher directly to provide a tap turn signal feature with a predefined number of flashes. This module supports OEM incandescent lamps and LEDs without installing ballast resistors.

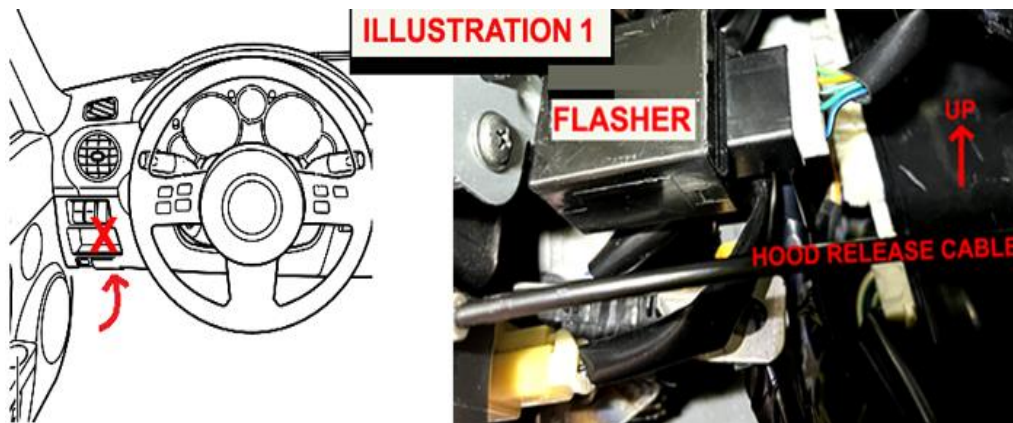
### TOOLS NEEDED

- \* Cross-point screwdriver to remove the flasher. It is JIS style, but a Phillips screwdriver will work.
- \* A flashlight or drop light.
- \* Needle-nose pliers will make the work at the fuse panel easier.

### INSTALLATION

The Miata NC flasher is located on the dashboard's front (concealed) side, above the driver's left knee, and near the hood release handle. **See Illustration 1**

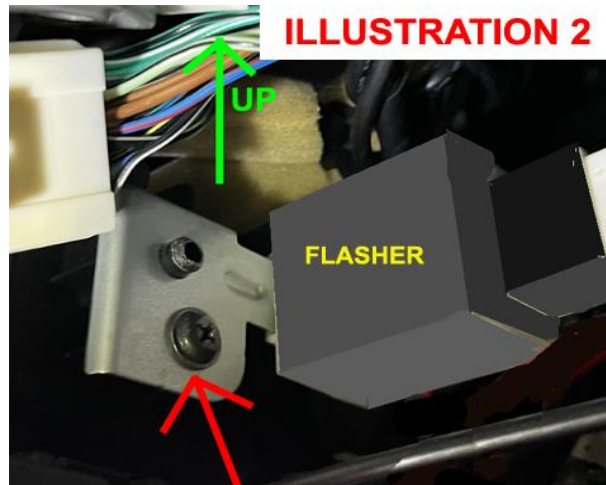
The easiest way to access the flasher is by sitting on the ground, with my head under the dash, and looking upward at the flasher.



#### Step 1. REMOVE THE OLD FLASHER FROM DASH

Remove the screw holding the flasher bracket in place. See the red arrow in **illustration 2**.

The flasher will drop down a few inches, allowing you to remove the connector plug.



**Step 2. UNPLUG FLASHER**

The connector plug will be released by depressing the center tab and pulling the plug from the old flasher. The removal is complete.

**Step 3. TRANSFER BRACKET TO TAP-TURN ALTERNATIVE FLASHER**

This can be done outside the car.



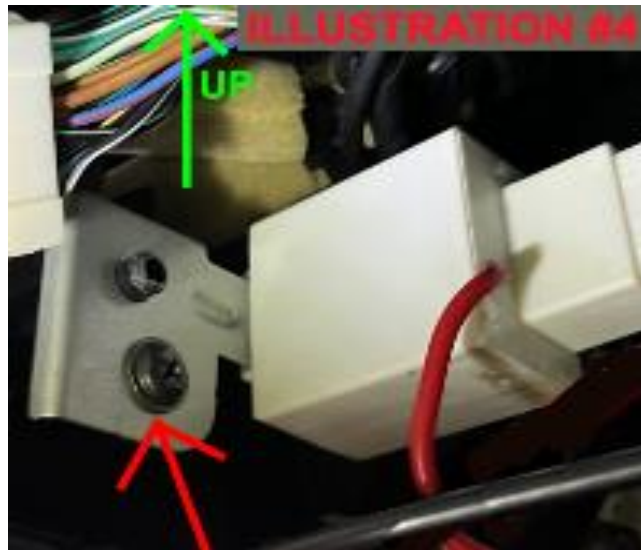
The bracket can be pulled off the original flasher. It is a tight fit. Push the bracket firmly into the Tap-Turn Alternative flasher. Be sure to orient the bracket like it was mounted on the original flasher. See **Illustration 3**

**Step 4. CONNECT THE WIRING PLUG TO THE NEW FLASHER**

Be sure to push the plug in firmly until it 'clicks' into place.

**Step 5. INSTALL THE FLASHER AND BRACKET**

The red wire hanging from the flasher will be dealt with in the next step. **ILLUSTRATION #4**

**Step 6. ROUTE THE FUSE TAP (RED WIRE) TO FUSE PANEL IN DRIVERS FOOT WELL**

The best way to do this is to bring the fuse tap in from the top, keeping it to the right side.

See **ILLUSTRATION #5**



**Step 7. CONNECT THE FUSE TAP TO THE FUSE PANEL**

Remove the 6<sup>th</sup> fuse (A/C) from the top of the fuse panel.

Install the removed fuse in the Fuse Tap in the position closest to the plug blades. The other position must have a fuse installed (comes with the shipment)

See **ILLUSTRATION #6**

Plug the fuse tap into the fuse panel, keeping the wire on the right side with the fuses down.

See **ILLUSTRATION #7**

The fuse tap allows you to piggyback on an existing fuse and provide 12V for configuration purposes only.

In **ILLUSTRATION #7**, you can observe that the fuse tap fuses are not blocking other fuses.



## OPERATION

Tapping the turn signal lever to UP will cause the right turn signals to flash three times.

Tapping the turn signal lever to DOWN will cause the left turn signals to flash three times.

The number of flashes can be adjusted during the programming procedure.

If enabled, locking, or unlocking the car with the remote will cause the exterior courtesy lights (turn signal bulbs) to operate for 30 seconds. By default, this option is disabled.

## PROGRAMMING

To increase the number of flashes:

With the key off, move the turn signal lever up and turn on the ignition (OK to start car). This will add 1 flash sequence to the default setting.

If you repeat this entire sequence, it will add another flash.

To decrease the number of flashes:

With the key off, move the turn signal lever down and turn on the ignition (OK to start car). This will remove 1 flash sequence from the default setting. If you repeat this entire sequence it will remove another flash.

Programming over 6 flashes will enable courtesy light feature.

Programming to zero flashes it will deactivate the courtesy lights.