# C-SMM701 (Surveillance Mode Module)
## 2018-2020 Dodge Charger Pursuit



## Introduction

The C-SMM701 for Dodge Charger uses the vehicle's OEM Back up sensors and camera to inform an officer if anyone is behind the vehicle. Anytime Surveillance Mode is active, the reverse sensors will be turned on. If any of the sensors are tripped while in Surveillance mode, the system will turn on the Rear View Display and a chime indicating a sensor has been tripped, all the door's will lock, the driver's window will roll up, and the tail lights will flash.

## Installation Instructions

**Disconnect vehicle battery before proceeding with the installation.**



**WARNING**
Disconnect the battery to prevent setting a check engine light.

It is the installer's responsibility to route and secure all wiring harnesses where they cannot be damaged by sharp objects, mechanical moving parts and high heat sources. Failure to do so could result in damage to the system or vehicle and create possible safety concerns for the operator and passengers.

It is important to avoid placing the module where it could encounter strong magnetic fields from high current cabling connected to motors, solenoids, etc. Also avoid radio frequency energy from antenna's or inverters next to the module. Finally, avoid high voltage spikes in vehicle wiring by always using diode clamped relays when installing upfitter circuits.

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Page 1 of 6

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SMM701-080420-INS

# SMM Module

Find a suitable location to mount the SMM module.  Locate the module in an area away from any external heat sources (engine heat, heater ducts, etc.).  Do not mount the module until all post installation testing is complete and wire harnesses are routed and secure.

**Data Link Harness (6-pin connector on module)**  The 2018-2020 Charger has a "Gateway" module connected to the OBDII connector.  The SMMs data link harness T's into both an 8 pin and 12 pin connector on this gateway module.

1. Locate the vehicle's Gateway module located next to the BCM and above the Park Brake.

2. Remove the 12-pin and 8-pin connectors from the Gateway module and plug in the 12-pin and 8-pin connectors from the Intermotive C-SMM701 Data Link harness.  Plug the OEM 12-pin and 8-pin connectors into the mating connectors on the C-SMM701 Data Link harness.

3. Plug the free end of the Data Link harness into the mating 6-pin connector on the C-SMM701 module.
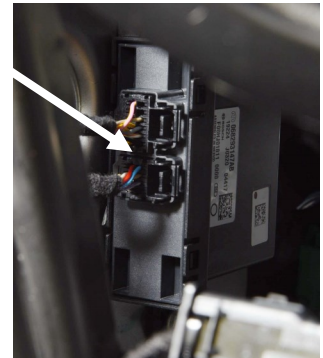


Charger gateway module with 8 & 12 pin connectors.
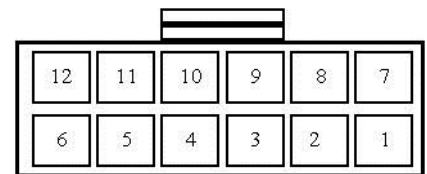
## Surveillance Mode Input

- The Yellow/Black wire (Pin 3 of the 4 pin connector) input is used to enable Surveillance Mode. The input requires a momentary switch (not included) connected to +12 volts.
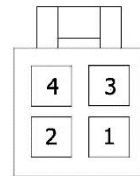


Back of Connector

## Surveillance Mode Status Output

- The Orange wire (Pin 11 of the 12 pin connector) will be +12 volts when Surveillance mode is active.

## Chime Mute Input

- The Green/White wire (Pin 5 of the 12 pin connector) is the input used to enable Chime Mute. The input requires a latching switch connected to Ground.



Back of Connector

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Page 2 of 6

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# Surveillance Mode Option (S)

## Introduction

Surveillance Mode can warn an officer if someone approaches the rear of the parked vehicle. It can close the windows, lock the doors, and chime when the sensors trip. It takes advantage of the Park Assist sensors in the Charger. Surveillance Mode is enabled by pushing a button while sitting in a stationary vehicle. When enabled, Surveillance Mode will turn on the backup camera and LCD display to provide the officer a view of the rear of his vehicle.

### Surveillance Mode Input

- The Yellow/Black wire (Pin 3 of the 4 pin connector) is input is used to enable Surveillance Mode. The input requires a momentary switch (not included) connected to +12 volts.

### Surveillance Mode Status Output

- The Orange wire (Pin 11 of the 12 pin connector) will be +12 volts when Surveillance mode is active.

### Surveillance Mode Operating Instructions :

To enter Surveillance Mode ALL preconditions must be met:

- Transmission must be in park.
- Vehicle speed must be zero.
- All doors must be closed.
- Service Brake must not be applied.
- Momentarily apply +12 volts to Yellow/Black wire to enter Surveillance Mode.

**The reverse camera display will turn on when surveillance mode is active.**

If the backup sensors detect an object, the module will lock all the doors, roll the passenger and driver window up, and toggle the reverse and stop lights.

To exit Surveillance Mode, any condition may be applied:

- Driver door is opened.
- Service Brake is pressed.
- Transmission cycled out of park.

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Page 3 of 6

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# Surveillance Mode Post Installation Testing

Perform the following tests before mounting the module to allow viewing of the diagnostic LED's, if needed.  Preferably test with two people so one person can activate the rear sensors.
**Always have Fob in Pocket when testing to avoid being locked out of vehicle.**

- Sit in drivers seat with transmission in Park and drivers door closed.  Do not apply the Service Brake.
- Roll the driver and passenger door windows all the way down and unlock doors.
- Enable Surveillance Mode by pushing button (Apply power to the Yellow/Black Surveillance Mode input).
- Have another person trip the sensors by walking behind the vehicle.
- Verify the system trips:  the windows close, the doors lock, and the vehicle chimes.
- Verify the Tail Lights are flashing.
- To exit surveillance mode, push Service Brake, shift out of Park, or push the Surveillance Mode button.
- Verify Tail lights are now off.

## Surveillance Mode Diagnostics

Diagnostic mode is entered by pressing the Red "Test" button on the module.  The module provides diagnostic LEDs which illuminate according to the following table.  To exit this mode, cycle the ignition to off.  **For diagnostics for the SMM portion of the SMM module, press the Red "Test" button <u>Two</u> times.  The Status LED will Flash 2 times repeatedly.**

| LED # | Diagnostic Mode LED Descriptions |
|-------|----------------------------------|
| 1 | Surveillance Mode Active |
| 2 | Transmission in Park |
| 3 | Vehicle speed Less than 2 MPH |
| 4 | Door Closed |
| 5 | Service Brake released |
| 6 | Surveillance Mode Enable Input |
| 10 | Flashing Reverse Lights |

Press the Red "Test" button TWO times to enter diagnostic for Blackout mode

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Page 4 of 6

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# Chime Mute

This option will silence the following chimes from the interior of the vehicle when the door is opened:

- Lights-on reminder.
- Ignition or accessory on chime.

Chime Mute can be activated by either grounding the Green/White wire (PIN5 on 12 pin connector) with a discrete switch (not provided in kit) or by simply turning off the cluster backlighting.

## How to turn OFF Cluster Backlighting

Rotate the left dimmer control to the extreme bottom OFF position. The interior lights will remain off when the doors are open, and the module will mute the driver door related chimes.



## Chimes Post Installation Test

Perform the following tests before mounting the module to allow viewing of the diagnostic LED's, if needed.

With vehicle in Park, Park Brake applied, and ignition in ACC:

1. Open Door and verify the audible Chime sounds.
2. Ground the Green/White (PIN 5) and verify the chime has stopped, or
3. Rotate the dimmer control to the OFF position and verify the chime has stopped.
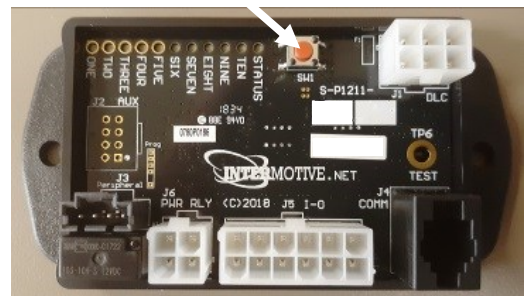
### Diagnostics

The SMM has a Diagnostic mode which is entered by pressing the Red "Test" button. The amber status LED flashes to indicate Diagnostic Mode has been entered, and the other LEDs will now represent the status of the various outputs listed below.

To exit Diagnostic Mode and disable the LEDs, simply cycle the ignition switch.

Press the Red "Test" button to enter Diagnostic Mode

| LED # | Diagnostic Mode LED Descriptions |
|-------|----------------------------------|
| 5 | Cluster Level Off |
| 6 | Chime Mute Input Active |

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Page 5 of 6

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C-SMM701
S-M1211-75

Status
TEN
NINE
EIGHT
SEVEN
SIX
FIVE
FOUR
THREE
TWO
ONE

InterMotive Vehicle Controls
Made in USA

Part# S-H133TAX

Back of
Connector

1 —— RED (Battery Voltage)
2 —— YELLOW (CAN 1 High)
3 —— GREEN (CAN 2 High)
4 —— GRAY (Ground)
5 —— BROWN (CAN 1 Low)
6 —— BLUE (CAN 2 Low)

Part# S-H54FX

Back of
Connector

1 —— Not Used
2 —— Not Used
3 —— Not Used
4 —— Not Used
5 —— GREEN/WHITE (Chime Mute Input)
6 —— Not Used
7 —— Not Used
8 —— Not Used
9 —— Not Used
10 —— Not Used
11 —— ORANGE (SMM Detected Output)
12 —— Not Used

Part# S-H65H1

Back of
Connector

1 —— Not Used
2 —— Not Used
3 —— YELLOW/BLACK (SM Enable Input (+12V))
4 —— Not Used

Attach To OEM 12-Pin
Connector at Gateway
Connector

Attach To OEM 8-Pin
Connector at Gateway
Connector

**Submit product registration at www.intermotive.net**

If the SMM fails any step in the System Operation Test, review the installation instructions and check all connections.
If necessary, call InterMotive Technical Support at (530) 823-1048

C-SMM701-080420-CAD