

SMM701 (Surveillance Mode Module)

2015-2017 Dodge Charger Pursuit



Introduction

The 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.

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)

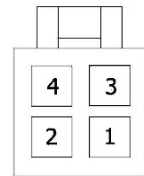
1. Locate the vehicle OBDII Data Link Connector. It is white and points at the floor of the vehicle in the area above the drivers left foot.
2. Use a flat screwdriver to remove the OEM OBDII connector. There are tabs on the sides of the connector that allow it to snap into place. Press the tabs and push the connector up and out of its bracket. The SMM kit includes a Data Link harness (see picture). Plug the red connector from the SMM Data Link Harness into the vehicle's OBDII connector. Ensure the connection is fully seated and secured with the supplied wire tie.
3. Mount the white connector from the SMM Data Link Harness in the former location of the vehicle's OBDII connector, by snapping it into place.



SMM Data Link harness "T's" into OBDII connector.

Surveillance Mode Input

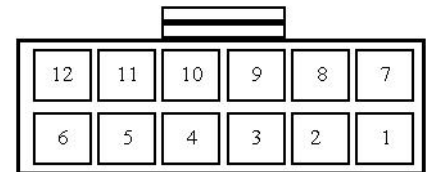
- The Yellow/Black wire (Pin 2 of the 4 pin connector) is input is used to enable Surveillance Mode. The input requires a momentary switch (not included) connected to +12 volts.



Back of Connector

Surveillance Mode Status Output

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



Back of Connector

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.

Surveillance Mode Option (S)

Introduction

Surveillance Mode uses Park Assist equipped in the Charger. If any of the sensors detect a presence while in Surveillance mode, the vehicle will chime indicating which sensor tripped, and then the SMM will lock the doors and roll the driver and passenger windows up.

Surveillance Mode Input

- The Yellow/Black wire (Pin 2 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 Surveillance mode is active.

Surveillance Mode Operating Instructions :

To enter Surveillance Mode. ALL preconditions must be met.

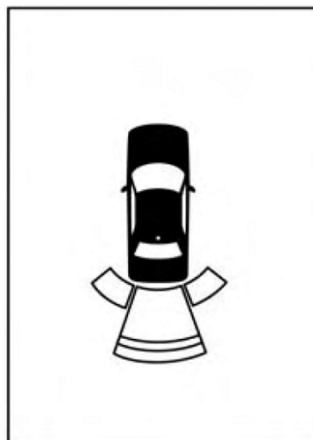
- Transmission must be in park.
- Vehicle speed must be zero.
- All doors must be closed.
- Service brake must not be applied .
- Momentarily apply +12 volts to Yellow/Black wire to enter Surveillance Mode

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.



Surveillance Mode Post Installation Instructions

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 Key in Pocket when testing .

- Place Car in Park, close the driver door, and do not apply the Service Brake.
- Roll the driver and passenger door windows all the way down and unlock doors.
- Apply power to the Yellow/Black Surveillance Mode input.
- Have one person trip the sensors by walking behind the vehicle.
- Verify that the window goes up, all doors lock.
- Verify the Tail Lights are flashing in a pattern.
- To exit surveillance mode, shift out of PARK or apply Surveillance Mode input.
- Verify Tail lights are off.

Surveillance Mode Diagnostics

Diagnostic mode is entered by shorting the two "Test" pads together on the module. The module provides diagnostic LEDs which illuminate according to the following table. To exit this mode, cycle the key. **For diagnostics for the SMM portion of the SMM module, momentarily short the two "Test" pads Two times. The Status LED will Flash 2-2 code.**

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 Input
10	Flashing Reverse Lights

Short pads together TWO times to enter diagnostic for Blackout mode



Chime Mute

This option will silence the following chimes from the interior of the vehicle:

- 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 Key fob 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, verify the chime has stopped.

Diagnostics

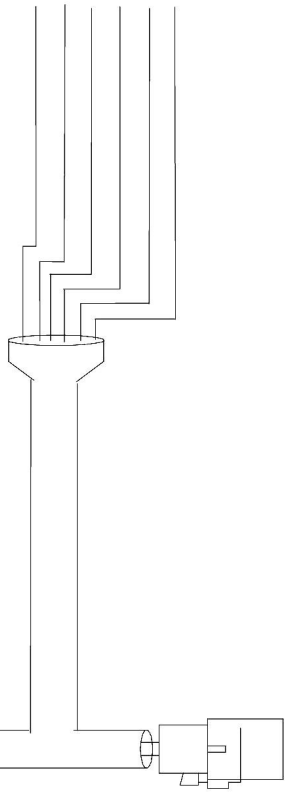
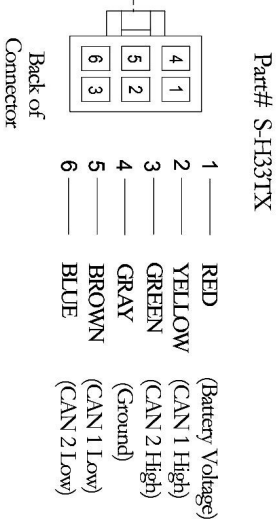
The BOM has a Diagnostic mode which is entered by shorting the two "Test" pads together. The amber status LED flashes to indicate Diagnostic Mode has been entered, and the other LEDs will now represent the status of the various outputs listed below.

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

Short pads together to enter Diag Mode

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

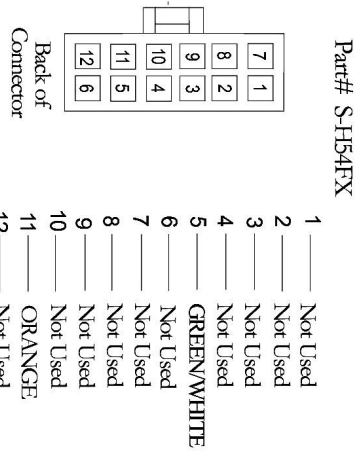
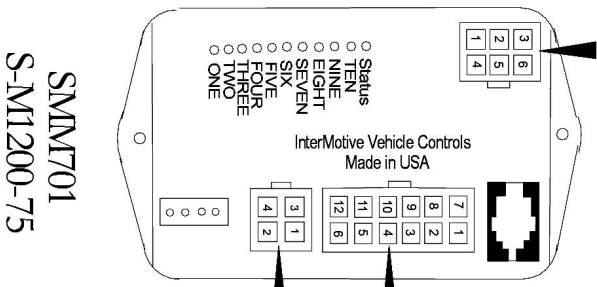




Attach To OEM OBDII Connector

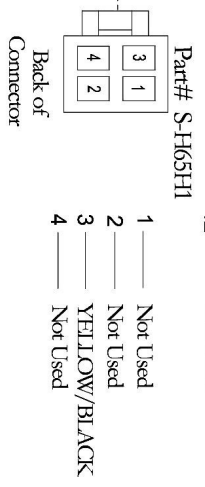
Plug and Play Data Link Harness

Pass Through OBDII Connector



(Chime Mute Input)

(SMM Detected Output)



(SM Enable Input)

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