Instructions

INTERMOTIVE VEHICLE CONTROLS
An ISO 9001:2015 Registered Company

C-BOM702 (Blackout Module)

2021 Dodge Charger Pursuit

Contact InterMotive for additional vehicle applications

Introduction

The C-BOM702 module has the ability to eliminate all exterior lighting to aid in covert operations. When activated, it will eliminate the parking lamps, reverse lights, service Brake lights, and the daytime running lights. Maximum speed can be set between 5-20 mph to automatically return brake lights for safety purposes.

Installation Instructions

IMPORTANT — READ BEFORE INSTALLATION

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.
Avoid placing the module where it could encounter strong magnetic fields from high current cabling connected to motors, solenoids, etc. Avoid radio frequency energy from antennas or inverters next to the module. Avoid high voltage spikes in vehicle wiring by always using diode clamped relays and solenoids when installing upfitter circuits.

CAUTION

All electronic products are susceptible to damage from Electrostatic Discharge or ESD. Ground yourself before handling or working with the module and harnessing by first touching chassis ground, such as the barrel of the cigarette lighter.

BOM Module

Find a suitable location to mount the BOM 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.

Instructions

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

Charger gateway module with 8 & 12 pin connectors.

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 S-H133TAX harness. Plug the OEM 12-pin and 8-pin connectors into the mating connectors on the S-H133TAX harness.
3. Plug the 6-pin of the S-H133TAX harness into the mating 6-pin connector on the C-BOM702 module.

Momentary Push Button (S-H84FX)

The Pink/Black wire (Pin 1 of the 4-pin connector on S-H65GX) is used to enable Blackout Mode. The input requires a momentary push button (included on S-H84FX) connected to +12V.

1. Drill a 16mm (0.630") hole in the desired mounting location.
2. Route the harness through the hole to mount the switch in the hole:
   A. Remove lock nut from switch
   B. Do not dis-assemble the switch to install
   C. Pull the harness through the hole
3. Slide the lock nut onto the harness and snug it down onto the back of the switch.
4. Connect the bullet connector to the mating bullet connector on the S-H65GX harness. Connect the other wire to +12V

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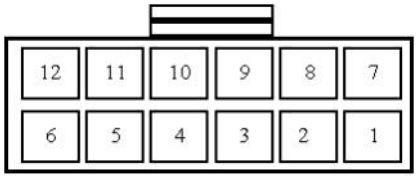
Blackout Status Output

- The Yellow wire (Pin 8 of the 12-pin connector on S-H54EX) will be +12 volts when Blackout mode is active. Connect to an LED with integral resistor. (not included)

Chime Mute Input

- The Green/White wire (Pin 5 of the 12-pin connector on S-H54EX) is the input used to enable Chime Mute. The input requires a latching switch connected to Ground.



Back of Connector

Blackout Mode

Introduction

- The Blackout module has the ability to eliminate all exterior lighting to aid in covert operations. This includes parking lamps, reverse lights, and Service Brake lights. A maximum 'exit speed' can be set to automatically return brake lights for safety purposes.

Blackout Input

- The Pink/Black wire (Pin 1 of the 4-pin connector on S-H65GX) is used to enable Blackout Mode. The input requires a momentary push button (included on S-H84FX) connected to +12V.

Blackout Status Output

- The Yellow wire (Pin 8 of the 12-pin connector on S-H54EX) will be +12 volts when Blackout mode is active. Connect to LED with integral resistor (not included).

Blackout Mode Operating Instructions:

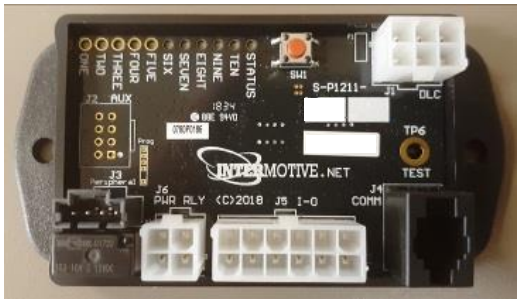
To enter Blackout Mode. ALL preconditions must be met.

- Speed must be below configured maximum speed (5-20).
- Momentarily apply +12V to Pink/Black wire to enter Blackout Mode (press momentary button).

Blackout Status Output will be +12v when Blackout Mode active.

To exit Blackout Mode any condition may be applied:

- Vehicle is moving above maximum speed.
- Momentarily apply +12V to Pink/Black wire to exit Blackout Mode (press momentary button).



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Post Installation / Check List

The following checks must be made after installation of the system, to ensure correct and safe operation of the lift. If any of the checks do not pass, do not deliver the vehicle. Recheck all connections per the installation instructions.

1. Turn ignition key on (to "Run") with the engine off.
2. Place the transmission in Reverse.
3. Enable Blackout Mode by pressing the momentary button.
4. Confirm cluster dims when Blackout mode is enabled.
5. Blackout output (Yellow) will be +12 Volts.
6. Hold Service Brake and verify the Brake lights and Reverse lights are disabled.
7. Disable Blackout Mode by pressing the momentary button again.
8. Confirm cluster turns back on when Blackout mode is disabled.
9. Hold Service Brake and verify the Brake Lights and Reverse lights are ON.

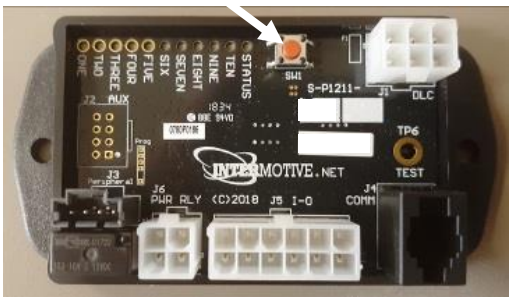
DO NOT PUT VEHICLE IN SERVICE IF IT DOES NOT PASS ALL OF THE ABOVE TESTS
Contact InterMotive at 530-823-1048 for technical assistance

Blackout Mode Diagnostics

For Blackout Mode diagnostics, press the Red "Test" button **Three** times. The Status LED will Flash 3 times repeatedly. The module provides diagnostic LEDs which illuminate according to the following table. To exit this mode, cycle the key.

LED #	Diagnostic Mode LED Descriptions
1	Blackout Mode Active
2	VSS less than 15mph
3	Low Beams Off
4	High Beams Off
5	Park Lamps Off
6	DRL Off
7	Cluster Off
8	Blackout Input Status
9	Speed Inhibit Enabled

Press the Red "Test" button **THREE** times to enter diagnostic for Blackout mode.



Instructions

Chime Mute

This feature 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 (Pin 5 on 12-pin connector on S-H54EX) 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 BOM 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, verify the chime has stopped.

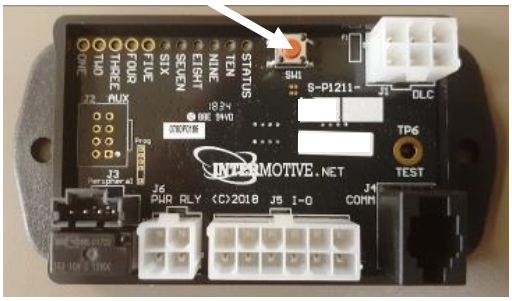
Diagnostics

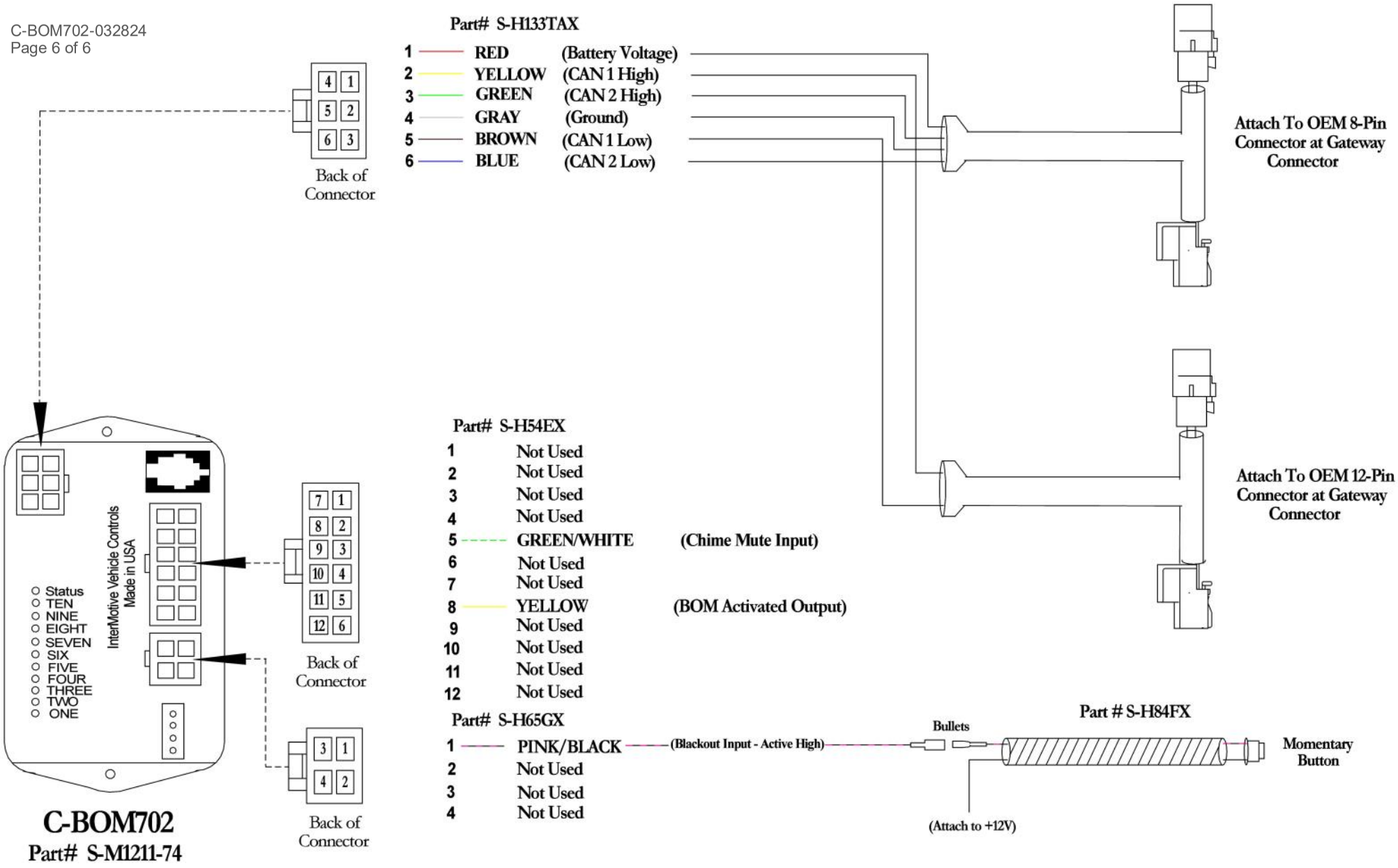
The BOM has a Diagnostic mode which is entered by pressing the Red "Test" button once. The amber status LED flashes to indicate Diagnostic Mode has been entered, and the other LEDs will now represent the status of the various outputs listed below.

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

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

Press the Red "Test" button to enter Diagnostic Mode





Submit product registration at www.intermotive.net

If the BOM702 fails any step in the Post Installation Check List, review the installation instructions and check all connections. If necessary, call InterMotive Technical Support at (530) 823-1048.