

BOM701-B (Blackout Module)

2015-2017 Dodge Charger Pursuit



Introduction

The BOM701 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

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.

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.

Data Link Harness (6-pin connector)

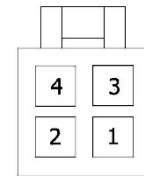
1. Locate the vehicle OBDII Data Link Connector. It is white and points at the floor of the vehicle in the area above the drivers left foot.
2. Use a flat screwdriver to remove the OEM OBDII connector. There are tabs on the sides of the connector that allow it to snap into place. Press the tabs and push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



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

Blackout Input

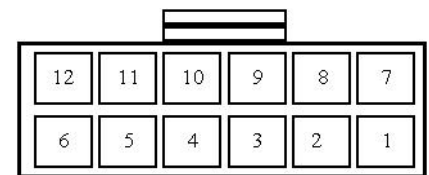
- The Pink/Black wire (Pin 1 of the 4 pin connector) is the input used to enable Blackout Mode. The input requires a momentary push button (included) connected to +12V.



Back of Connector

Blackout Status Output

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



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.

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. Its intended use is for Police Dodge Chargers. A maximum 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) is the input used to enable Blackout Mode. The input requires a momentary push button (included) connected to +12V.

Blackout Status Output

- The Yellow wire (Pin 8 of the 12 pin connector) will be +12 volts Blackout mode is active. Connect to LED.

Blackout Mode Operating Instructions:

To enter Blackout Mode. ALL five preconditions must be met.

- Cluster Brightness must be turned Off. (Described in page 4)
- DRL's must be turned off. (Described in page 4)
- Speed must be below configured maximum speed (5-20).
- Low Beams, High Beams, Parking Lamps must be turned off.
- Momentarily apply +12V to Pink/Black wire to enter Blackout Mode. (press the momentary button)

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

To exit Blackout Mode any condition may be applied:

- Turn on any lights. (DRL, Low, High, Parking)
- Vehicle is moving above maximum speed.

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.

How to turn OFF Daytime Running Lights

Touch the Settings hard key, then Touch "Lights" soft-key



Touch the Daytime Running Lights soft-key to change this display. When this feature is selected, the headlights will turn on whenever the engine is running. To make your selection, touch the Daytime Running Lights soft-key and select OFF.

The Daytime Running Lights will turn ON the first time the vehicle is shifted out of PARK, and remain ON unless the Parking brake is applied. Upon Returning to the PARK position, the DRL's will turn OFF.

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").
2. Apply the Parking Brake and Turn Off all lights (High Beams, Low Beams, and Parking Lights).
3. Apply Blackout mode input (press the momentary button).
4. Blackout output (Yellow) will be +12 Volts.
5. Hold Service Brake and verify the Brake lights are disabled.
6. Turn on Low Beams , Blackout output (Yellow) will be floating.
7. Hold Service Brake and verify the Brake Lights are ON.
8. Turn Off all lights (High Beams, Low Beams, and Parking Lights).
9. Apply Blackout mode input (press the momentary button).
10. Blackout output (Yellow) will be +12 Volts
11. Place transmission in Reverse and verify the reverse lights are not ON.
12. Turn on Low Beams and Black Out LED will be ON 100%.
13. Verify that the Reverse Lights are On.

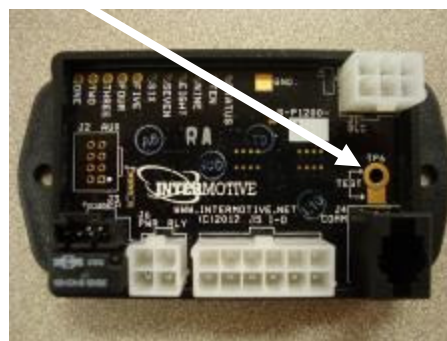
DO NOT PUT VEHICLE IN SERVICE IF IT DOES NOT PASS ALL OF THE ABOVE TESTS
Contact InterMotive at 530-823-1048 for technical assistance

Blackout Mode Diagnostics

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, momentarily short the two "Test" pads together The Status LED will Flash 3-3 code.**

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

Short pads together to enter diagnostic for Blackout mode.



Chime Mute

This feature 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 BOM 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 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 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

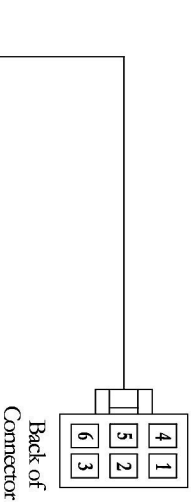
The BOM has a Diagnostic mode which is entered by shorting the two "Test" pads together. The amber status LED flashes to indicate Diagnostic Mode has been entered, and the other LEDs will now represent the status of the various outputs listed below.

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

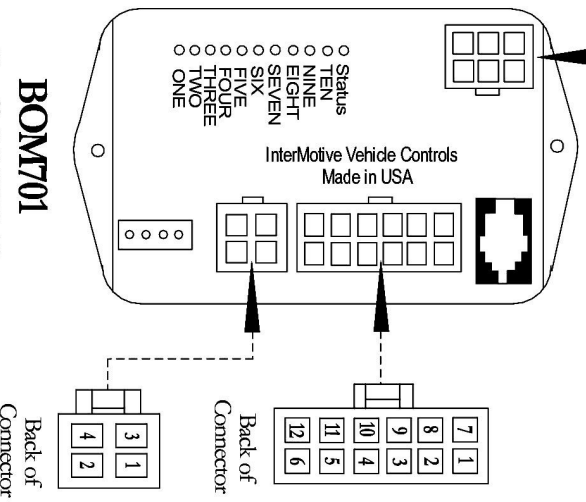
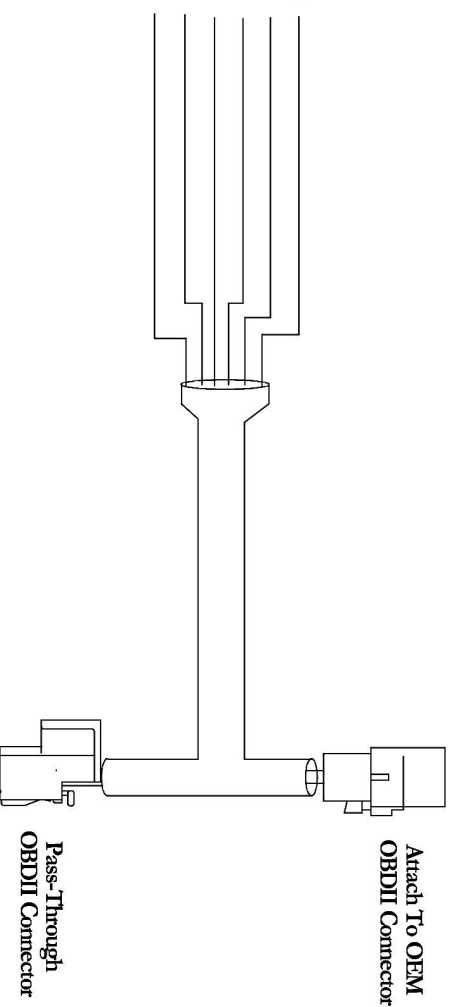
Short pads together to enter Diag Mode

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



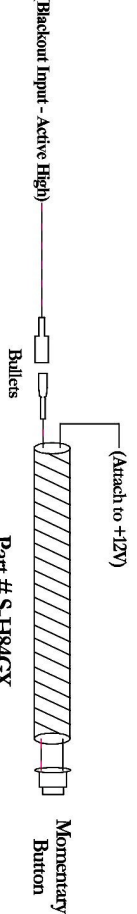


- Part# S-H33TX**
- | | | |
|---|--------|-------------------|
| 1 | RED | (Battery Voltage) |
| 2 | YELLOW | (CAN 1 High) |
| 3 | GREEN | (CAN 2 High) |
| 4 | GRAY | (Ground) |
| 5 | BROWN | (CAN 1 Low) |
| 6 | BLUE | (CAN 2 Low) |



- Part# S-H54EX**
- | | | |
|----|-------------|------------------------|
| 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 | YELLOW | (BOM Activated Output) |
| 9 | Not Used | |
| 10 | Not Used | |
| 11 | Not Used | |
| 12 | Not Used | |

- Part# S-H65GX**
- | | | |
|---|------------|--------------------------------|
| 1 | PINK/BLACK | (Blackout Input - Active High) |
| 2 | Not Used | |
| 3 | Not Used | |
| 4 | Not Used | |



Submit product registration at www.intermotive.net

If the BOM 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