

INFINITYBOX™ inDASH MAX Dash Indicator Module Manual

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Overview

The INFINITYBOX™ inDASH MAX Dash Lighting Controller is an expansion module to the INFINITYBOX Intelligent Multiplex System that gives vehicle fabricators an easy way to control the indicators and illumination on their dash boards. This gives you a simple way to wire the turn-signal indicators, high-beam indicators and gauge illumination, all from a simple module plugged into the INFINITYBOX Intelligent Multiplex System.

Commands are sent from the INFINITYBOX MASTERCELL to inDASH MAX to activate the LED's or small incandescent bulbs in your gauge cluster. This gets you a very flexible system that is easy to expand and uses less wire than other solutions on the market.

Commands are automatically sent from the MASTERCELL when the turn signals, high-beams or parking light switches are activated. The indicators are managed from within inDASH MAX.

Module Details

- Plug & Play module that connects into an Infinitybox system to drive dash board indicators. (Older system configurations may have to be updated to communicate with inDASH MAX.)
- Compact module with integrated mounting tabs for easy installation.
- 6 low-side switched output channels.

Technical Specifications:

- Dimensions: 5" X 2" X 1"
- Number of output channels: 6
- Maximum current draw per channel: 1.0-amp.
- Operating voltage: 11.0 to 14.8-volts.
- Each inDASH MAX module is individually addressed.
- Dimensions: 5" X 2" X 1"

NOTE: Do not exceed the maximum specified current draw on inDASH MAX output channels.

Kit Includes

- 1- INFINITYBOX™ inDASH MAX Controller Module
- 1- Power & Ground Harness with Fuse Holder
- 1- INFINITYBOX™ inDASH MAX Output Harness
- 1- Modular INFINITYBOX™ CAN Jumper Harnesses
- 6- 22-AWG Butt Splice Terminals
- 6- Pieces of Heat Shrink Tubing
- 1- Instruction Manual

Installation Steps

Connect Power & Ground Harness to inDASH MAX Module

- 1) Remove the positive power feed from your battery or batteries before installing any electrical components.
- 2) Connect the Red 22-AWG wire in the harness with the rectangular 4-position connector to a constant battery feed. Splice the included Mini™ fuse holder in series with this wire, keeping the fuse holder as close to the battery as possible. A good place to pick up this feed is the Mega™ fuse holder included with your INFINITYBOX kit.
- 3) Connect the Black 22-AWG wire in the harness with the rectangular 4-position connector to chassis ground. Make sure that you have a good metal-to-metal connection to ground.

Connect the inDASH MAX module to the INFINITYBOX CAN network.

- 1) Pick a convenient place in the INFINITYBOX CAN cable to splice into for inDASH MAX.
- 2) Remove the convolute looming from the area where you will make the splice.
- 3) Cut and strip the 6 wires in the inDASH MAX CAN jumper harness to the right length to splice into your existing INFINITYBOX CAN harness.
- 4) Locate the pair of blue* 22-AWG wires in the CAN harness. Pick one of the blue wires and cut it. Both of the blue wires are electrically the same so you may choose either blue wire.
- 5) Strip back the insulation on both sides of the cut blue 22-AWG wire.
- 6) Slip one piece of heat-shrink tubing on each end of the cut blue 22-AWG wire in the existing CAN harness.
- 7) Crimp one end of the included butt-splice terminals to each of the cut ends in the existing CAN harness.
- 8) Crimp the other ends of the butt-splice terminals to the blue wires in the inDASH MAX CAN jumper harness. These wires are electrically the same so it does not matter which of the blue wires connect to the blue wires in your existing CAN harness.
- 9) Locate the pair of green* 22-AWG wires in the CAN harness. Pick one of the green wires and cut it. Both of the green wires are electrically the same so you may choose either green wire.
- 10) Strip back the insulation on both sides of the cut green 22-AWG wire.
- 11) Slip one piece of heat-shrink tubing on each end of the cut green 22-AWG wire in the existing CAN harness.
- 12) Crimp one end of the included butt-splice terminals to each of the cut ends in the existing CAN harness.
- 13) Crimp the other ends of the butt-splice terminals to the green wires in the inDASH MAX CAN jumper harness. These wires are electrically the same so it does not matter which of the green wires connect to the green wires in your existing CAN harness.
- 14) Locate the black* 22-AWG wire in the CAN harness.

- 15) Strip back the insulation on both sides of the cut black 22-AWG wire.
- 16) Slip one piece of heat-shrink tubing on each end of the cut black 22-AWG wire in the existing CAN harness.
- 17) Crimp one end of the included butt-splice terminals to each of the cut ends in the existing CAN harness.
- 18) Crimp the other ends of the butt-splice terminals to the black wires in the inDASH MAX CAN jumper harness. These wires are electrically the same so it does not matter which of the black wires connect to the black wires in your existing CAN harness.
- 19) Slide the pieces of heat-shrink tubing over the butt-splices in the harness.
- 20) Use a heat-gun to shrink the tubing over the splices.
- 21) Re-loom the CAN cable.
- 22) Plug the 3-position rectangular connector into either of the sockets labeled CAN on the inDASH MAX module.

* Note: Some generations of INFINITYBOX CAN cable may have different wire colors. Please contact INFINITYBOX Power technical support if your wire colors do not match the ones described above.

Connect the inDASH MAX module to indicator lights.

- 1) inDASH is designed to ground switch a small light or the cathode side of a light emitting diode. The different colored wires on the output harness are assigned to specific indicators for your dash. See Table 1 for the wire colors.
 - a. Left Turn Signal- indicator will flash when the left turn signals are flashing.
 - b. Right Turn Signal- indicator will flash when the right turn signals are flashing.
 - c. Both the left & right turn signal indicators will flash together when the 4-ways are on.
 - d. High-Beam indicator will turn on when the high-beam output is active.
 - e. Gauge Illumination output will be active when the parking lights are turned on.
 - f. Security Indicator will flash when INFINITYBOX security is set from inLINK or inTOUCH Mobile.
 - g. INFINITYBOX Status will turn on solid when the INFINITYBOX network status is okay. It will flash to indicate any problems on the INFINITYBOX bus. Check your inSIGHT modules for messages if this light flashes. NOTE: this output is optional.
- 2) Set the number on the rotary dial on the rear of inDASH MAX to the address specified on your INFINITYBOX Configuration Sheet. The default address is "5".
- 3) Connect the Red 22-AWG wire in the inDASH MAX output harness to one side of your lights. If you are using LED's, this wire should connect to the anode side.
- 4) Connect the other wires in the inDASH MAX output harness to your indicators using Figure 1.

Table 1: Wire Color Definitions for inDASH MAX Output Harness

Wire Color	Description
Pink/Red	Fused Power from inDASH MAX
Brown	Left Turn Signal Indicator
Purple	Right Turn Signal Indicator
Blue	High-Beam Indicator
Yellow	Gauge Illumination
Pink	Security Active Indicator
Grey	INFINITYBOX Status Okay Indicator

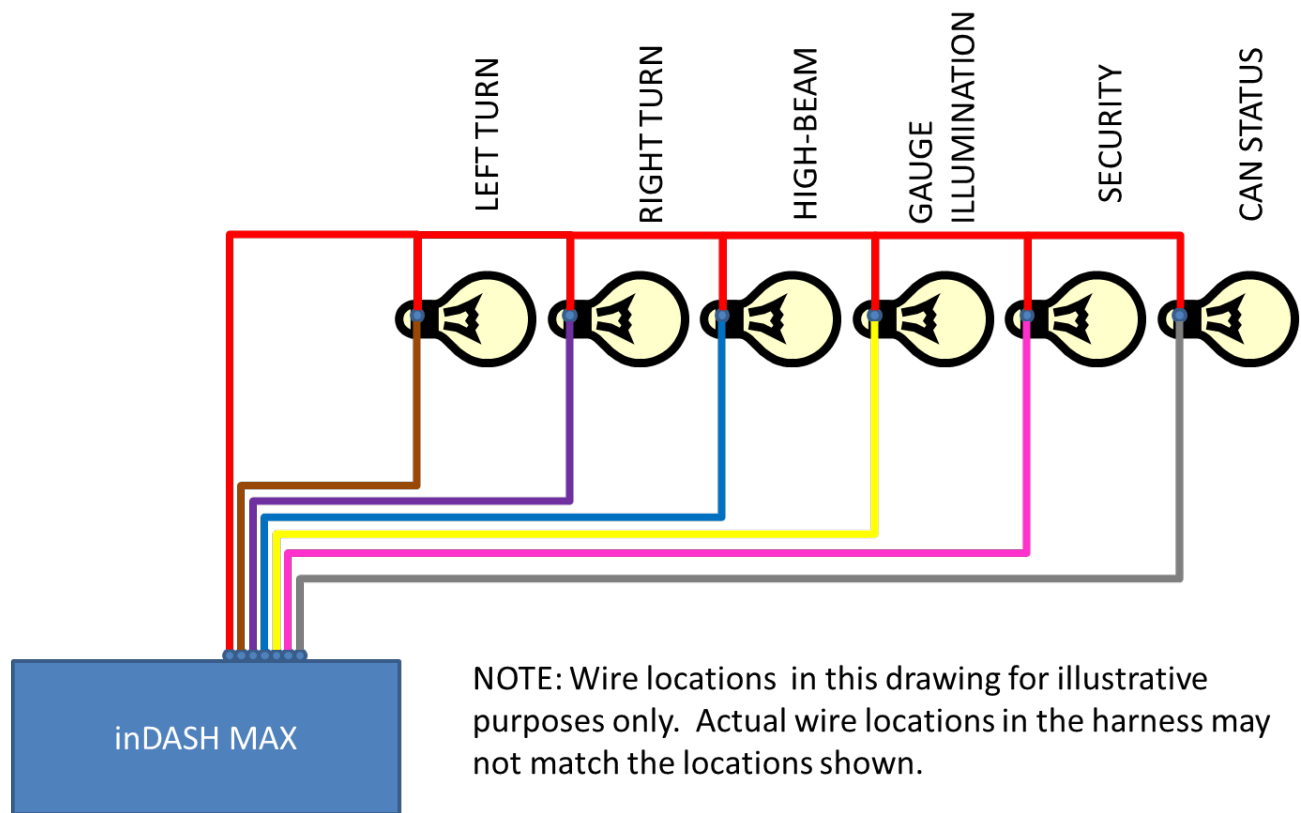


Figure 1: Wiring Schematic for INFINITYBOX inDASH MAX.

Powering Up the System

- 1) Reconnect the battery to the system.
- 2) inDASH MAX will flash a test pattern on the different indicators to indicate that it is connected properly.
- 3) Check to see if the INFINITYBOX inDASH MAX module is in system inventory.
 - a. Press the "HOME" button
 - b. Press the "SCROLL DOWN" button
 - c. inDASH MAX is installed correctly if you see "A5 RGB-6 Ch" in the system inventory.

Warranty Information

Warranty for INFINITYBOX™ Intelligent Multiplex System™

Infinitybox, LLC (“Infinitybox”) warrants against any defects in materials and workmanship to the Product’s INFINITYBOX™ modules, wiring harnesses and accessory modules for a period of one (1) year from the first date of purchase. Subject to the terms of this warranty described below, Infinitybox will replace any such defective Product that is returned to Infinitybox within the one (1) year period from initial purchase. Replacement of any defective part or Product will not extend the applicable warranty period.

The warranty does not apply to: (i) any Product that is not installed in compliance with the applicable Product documentation; (ii) any defect in, or failure of, the Product resulting from an accident, shock, negligence, water immersion or misuse; (iii) any Product that has been modified, adjusted, repaired, or disassembled by any party other than Infinitybox; or (iv) any defect other than in materials and workmanship.

This warranty covers only the original purchaser of Product purchased from an Infinitybox authorized dealer in the United States. In order to receive warranty service, purchaser must provide Infinitybox with a copy of the receipt stating the dealer name, product purchased and date of purchase. Products found to be defective during the warranty period will be replaced (with a product deemed to be equivalent or better) at the discretion of Infinitybox.

Infinitybox’s sole liability for any defective Product is limited solely to the replacement of Product pursuant to this warranty. Infinitybox reserves the right to replace any repairable parts with new or refurbished parts.

INFINITYBOX DISCLAIMS ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, SUCH AS WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PURPOSE. IN NO EVENT SHALL INFINITYBOX BE LIABLE FOR ANY PUNITIVE, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION, LIABILITY FOR LOSS OF USE, LOSS OF PROFITS, LOSS OF PRODUCT OR BUSINESS INTERRUPTION HOWEVER THE SAME MAY BE CAUSED, INCLUDING NEGLIGENCE.



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