Manuals+ — User Manuals Simplified.

BUILTBRIGHT BB8KA06 Perimeter Strobes Plus Mini Bar Installation Guide

Contents

BUILTBRIGHT BB8KA06 Perimeter Strobes Plus Mini Bar

Product Information

Specifications

- **Model:** #BB8KA06
- **Harness Type:** A 6 perimeter lights + Mini Bar
- **Main Harness:** Type A Main Harness (BB8K001)
- **Number of Parts:** 14
- **Includes:** Short and Long Y Splitter Adapters, Extension Harness, Switch Harness, Pigtail, Connector Caps, Connector Retainers, Fuse Holder with 15 Amp Fuse, Mini Bar Adapter, 1 to 2 Y Splitter

Product Usage Instructions

Step 1 – Plan the Installation

1. Unbox the harness kit and ensure all parts are present.
2. Lay out the harness and plan the installation of the perimeter strobes.

Step 2 – Program the Perimeter Strobe Lights

1. Program and test the lights before vehicle installation.
2. Unbox the perimeter strobe lights and connect them to the Main Harness using Y splitter adapters.
3. Use the 1 to 2 Y Splitter or 5 Core Pigtail to program the lights together or separately.

Step 3 – Program the Mini Light Bar

1. Determine the connector pins on the Mini Light Bar and connect the Mini Bar Adapter if necessary.

Frequently Asked Questions

Q: Are lights and brackets included in the kit?

A: Lights and brackets are sold separately. This kit includes the harness and necessary adapters for installation.
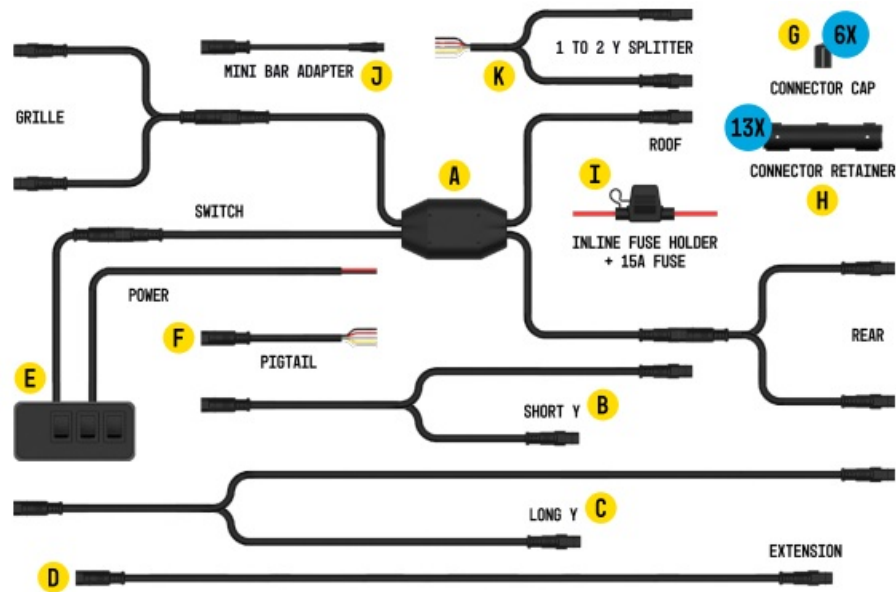
Q: How many perimeter lights can be connected to this harness?

A: This harness supports up to 6 perimeter lights along with a Mini Light Bar.

PARTS LIST

- **A.** 1x Type A Main Harness (BB8K001)
- **B.** 1x Short Y Splitter Adapters (BB8S001)
- **C.** 1x Long Y Splitter Adapters (BB8S002)
- **D.** 1x Extension Harness for Perimeter Strobe (BB8SE01)
- **E.** 1x Type A Switch Harness
- **F.** 1x 5 Core Pigtail

- **G.** 6x Connector Caps
- **H.** 13x Connector Retainers
- **I.** 1x Inline Fuse Holder + 15 Amp Fuse
- **J.** 1x Mini Bar Adapter
- **K.** 1x 1 to 2 Y Splitter

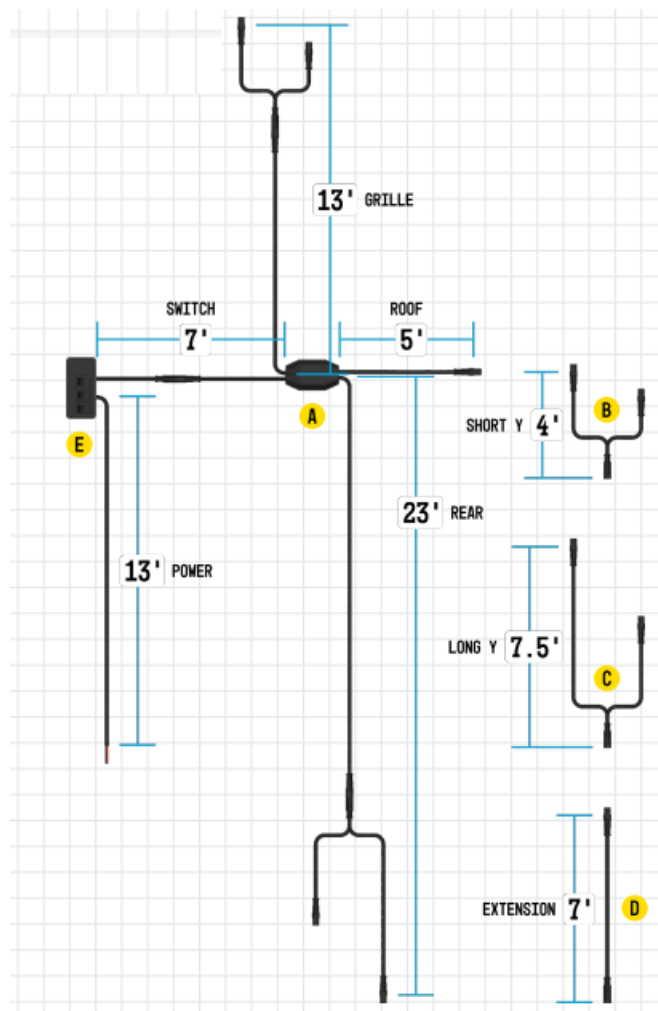## REQUIRED TOOLS

- Zip Ties
- Cable Clips

INSTALL NOTES

- No cutting or drilling is required for the installation of the front grille strobes or rooftop mini bar.
- Drilling is only required when mounting the lights on the rear tailgate, bumper, or on the body of the truck.
- The approximate installation time is 2 hours (not including bracket installation).
- Lights are not included in this kit. Compatible lights are listed below.

COMPATIBLE LIGHTS

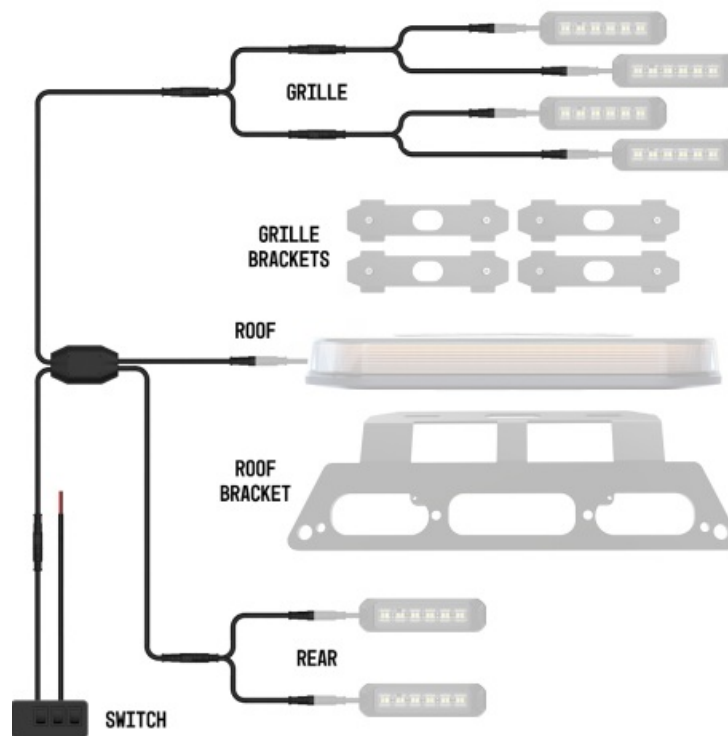| SKU	PERIMETER STROBE	COLOR	
BB6110A	4" Strobe Light, Amber (1EA)		
BB6110B	4" Strobe Light, Amber/White (1EA)		
BB6110C	4" Strobe Light, Amber/Blue (1EA)		
BB6110D	4" Strobe Light, Amber/Green (1EA)		
BB6010A	4" Strobe Light, Amber (1EA)		
BB6010B	4" Strobe Light, Amber/White (1EA)		
BB6010C	4" Strobe Light, Amber/Blue (1EA)		
BB6010D	4" LED Strobe Light, Amber/Green (1EA)		
BB6001BK	Mini Light Bar 12", Amber/White (1EA)		
BB6001CK	Mini Light Bar 12", Amber/Blue (1EA)		
BB6001DK	Mini Light Bar 12", Amber/Green (1EA)		
BB6011AK	Mini Light Bar 15", Amber (1EA)		
BB6011BK	Mini Light Bar 15", Amber/White (1EA)		
BB6011CK	Mini Light Bar 15", Amber/Blue (1EA)		
BB6011DK	Mini Light Bar 15", Amber/Green (1EA)		

DIMENSIONS

Step 1 – Plan the install

1. Unbox your harness kit and verify that all parts are present.
2. Lay out the harness and plan where to install the perimeter strobes (sold separately). Plan and lay out the necessary adapters and extensions alongside the Main Harness (A).
   - **Note:** There is a Short Y Splitter Adapter (B) and a Long Y Splitter Adapter (C) included in this kit. Please choose the proper adapter according to the location where you want to install your lights.
   - **Examples:**
   - The Short Y Splitter Adapter (B) is long enough if you install the front perimeter strobes in the grille. If you want to install the lights on the bumper or side of the vehicle, you may need to use the Long Y Splitter Adapter (C).
   - The Short Y Splitter Adapter (B) is long enough if you install the rear perimeter strobes under the tailgate. If you want to install the lights on the side of the vehicle, you may need to use the Long Y Splitter Adapter (C).
   - The standard harness and splitter adapters are long enough for standard pickup truck beds or flat beds up to 10' long.
   - If you choose to install the rear perimeter strobes on a truck body and route the harness through the cabin, you may need to use the Extension Harness for the Perimeter strobes (D).
   - An example configuration is shown on the next page for reference.
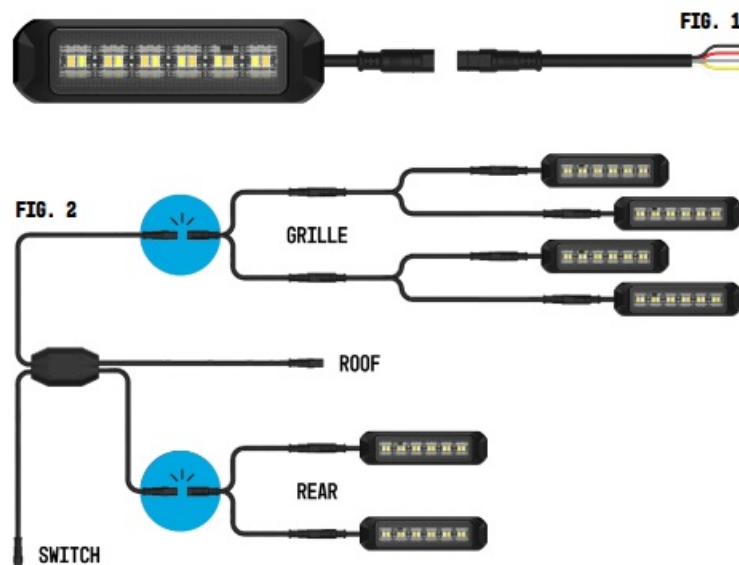
EXAMPLE configuration

- This example uses Harness Kit #BB8KA06, 6x Perimeter Strobe #BB6110B, 1x 12" Mini Light Bar #BB6001BK, 2x Grille Bracket Kit #BB96GFA, and 1x 3rd Brake Light Mount Bracket Kit #BB96RFA.
- Lights and brackets are sold separately.

Step 2 – Program the Perimeter Strobe Lights

We suggest programming the lights and testing harness functionality before beginning installation on the vehicle.

1. Unbox all of the perimeter strobe lights. A waterproof 5-pin male connector and a female pigtail are included in the package of each light.
2. Unplug the lights from the pigtails (Fig. 1) and plug the lights into the Y splitter adapters of the Main Harness (A).
3. After all lights are plugged into their locations, unplug the grille and rear connectors from the Main Harness (A) (Fig. 2).

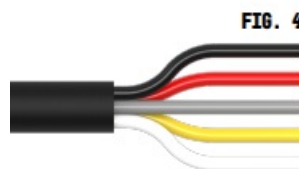- **Step 2 – Program the Perimeter Strobe Lights**
4. Use the 1 to 2 Y Splitter (K) to program all perimeter strobe lights together (Fig. 3). If preferred, use the 5 Core

Pigtail (F) to program each of the light bundles separately.

5. See Fig. 4 for individual wire functions. Refer to the perimeter strobe light instructions to program the **RED** and **GREY** wires to desired strobe patterns.
6. Unplug the 1 to 2 Y Splitter (K) or 5 Core Pigtail (F) and leave the light bundles unplugged from the Main Harness (A). They will be connected to the Main Harness (A) once it's routed through the vehicle.

FIG. 3 GRILLE REAR

- **BLACK** – Ground
- **RED** – To +V DC, Programmable Mode 1
- **GREY** – To +V DC, Programmable Mode 2
- **YELLOW** – Pattern Selection for Mini Bar
- **WHITE** – Inactive

FIG. 4

Step 2 – Program the MINI LIGHT BAR

1. Determine if your Mini Light Bar connector has three or four pins. If three, connect the Mini Bar Adapter (J) to the light.
2. Plug the Mini Light Bar (with Mini Bar Adapter (J) if needed) into the Main Harness (A). Plug the Switch Harness (E) into the Main Harness (A).
3. Using the switch panel, turn on Mode 1. To program the Mode 1 Mini Bar, toggle the Mini Bar Select switch to select the pattern. Turn off the Mode 1 switch. Turn on Mode 2 and repeat the pattern selection process. Turn off the Mode 2 switch.
   - **Pattern change intervals are as follows:**
   - Less than 1 second for the next pattern
   - 1-3 seconds for the previous pattern
   - 3-5 seconds to cycle through color modes
   - 5+ seconds to switch to low power mode. Press and hold for another 5 seconds to switch back to high power mode.
   - Refer to the Mini Light Bar manual for the sequence of available flash patterns, or locate your digital manual here.
4. Once complete, disconnect the Mini Light Bar and Switch Harness (E) from the Main Harness (A).
   - **Note:** Mode 1 and Mode 2 are on/off for both Perimeter Strobe Lights and the Mini Light Bar.

Step 3 – Install the harness and lights

1. Prior to routing through the vehicle, cap the Main Harness (A) connectors with provided Connector Caps (G). Capping the connectors is highly recommended to prevent dirt or grease from getting into the female connectors during installation.

2. Locate the vehicle's main harness along the frame rail. Route the StrobeLinkTM Main Harness (A) alongside it, starting under the cab and working towards the rear.
3. Remove the Connector Cap (G) and connect the Y splitter adapter for the rear strobe lights.
4. Route the front portion of the harness under the cab and into the engine bay. Secure the vehicle's wiring on the firewall or inner fender. Do not rest the wires against the exhaust.
5. Remove the Connector Cap (G) and connect the Y splitter adapter for the front strobe lights.
6. Locate the Main Harness (A) wire labeled "Top" and route it through the vehicle toward the top of the cab. Connect the mini light bar.
   - An example configuration is shown on the next page for reference.

EXAMPLE configuration

Step 4 – INSTALL THE LIGHT CONTROL

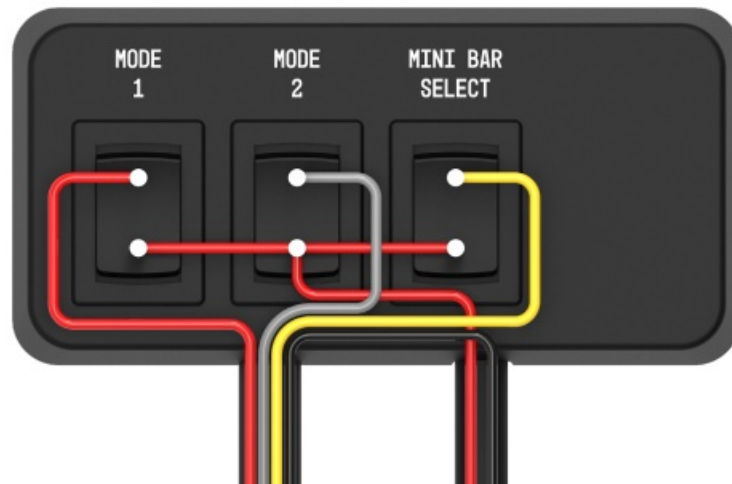There are 3 options to control your strobe lights.

1. Use Provided Switch Panel
2. Use Upfitter Switches
3. Use 3rd Party Switches

- **Note:** If the battery or fuse box of the vehicle is on the passenger side, you will need Power Extension Cable BBSE02 (sold separately) to extend between the power connector on the Switch Harness (E) and the pigtail to reach the power source.
- Each option is outlined individually in the next 2.

Step 4 OPTION 1 – Use the provided switch panel

1. Connect the Switch Harness (E) to the Main Harness (A). Temporarily connect to a 12V DC power source to test switch functionality. Disconnect the Switch Harness (E) once verified.
2. Enlarge the main harness boot hole on the firewall and route the switchwire of the Main Harness (A) into the cab.
3. Determine the switch panel location and route the Switch Harness (E) switch wire through or under the dashboard and connect it to the Main Harness (A).
4. Route the Switch Harness (E) power wire in the previously cut hole (main harness boot on the firewall) and route to the battery.

5. Connect the BLACK wire to the ground. Connect the RED wire to the battery power. Add Inline Fuse Holder + 15 Amp Fuse (I).

Step 4 OPTION 2 – USE UPFITTER SWITCHES

1. Plug the provided 5 Core Pigtail (F) into the switch connector on the Main Harness (A). See Fig. 5 for individual wire functions.
2. Locate the upfitter switch relay in the engine bay.
3. Connect the BLACK wire to the ground.
4. Connect the RED or GREY wire to the desired upfitter switch relay. When the upfitter switch is activated, that light and pattern will trigger.
5. Secure any slack with zip ties. Unused wires should be separated and protected using heat shrink or tape.

Step 4 OPTION 3 – USE 3rd party SWITCHES

1. Plug the provided 5 Core Pigtail (F) into the switch connector on the Main Harness (A). See Fig. 5 for individual wire functions.
2. Follow the same wiring instructions from Option 2 above.
   - **BLACK** – Ground
   - **RED** – To +V DC, Programmable Mode 1*
   - **GREY** – To +V DC, Programmable Mode 2*
   - **YELLOW** – Mini Bar Pattern Selection
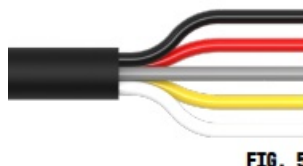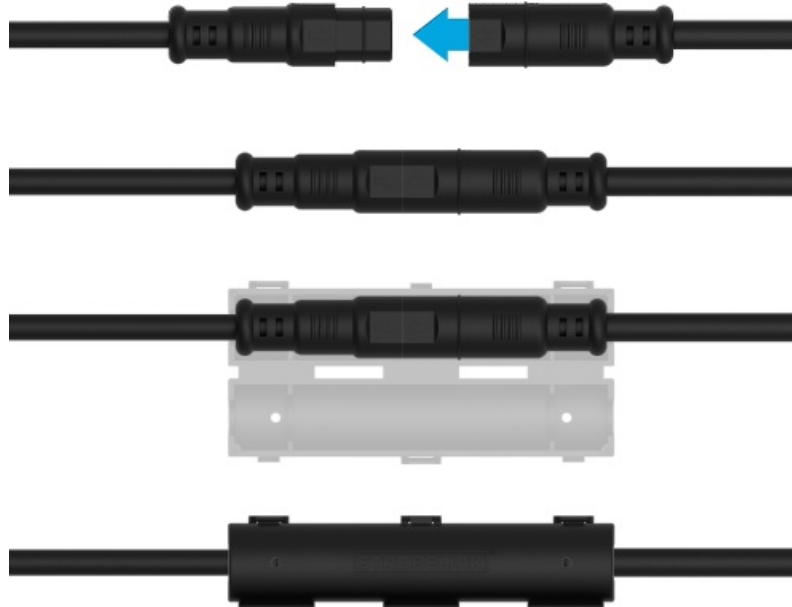   - **WHITE** – Inactive

FIG. 5

   - Perimeter Strobe Lights and Mini Bar together

Step 5 – Test + COMPLETE

1. Test the StrobeLinkTM setup for desired functionality. Once verified, secure any wire slack with zip ties.
2. Use the provided Connector Retainers (H) to secure connections. If your vehicle is operated in a high-corrosion

environment, apply dielectric grease in the connectors for additional corrosion protection.

3. If there is an unused connector exposed, use a Connector Cap (G) to cap it off. Wrap tape around the cap to secure it.

- **SCAN FOR VIDEO INSTRUCTIONS OR VISIT BUILT-BRIGHT.COM/INSTALL**

- **BASTROP, TEXAS 78602 UNITED STATES OF AMERICA WWW.BUILT-BRIGHT.COM**

Documents / Resources

[BUILTBRIGHT BB8KA06 Perimeter Strobes Plus Mini Bar](#) [pdf] Installation Guide
BB8KA06, BB8K001, BB8S001, BB8S002, BB8SE01, BB6110A, BB6110B, BB6110C, BB6110 D, BB6010A, BB6010B, BB6010C, BB6010D, BB6001BK, BB6001CK, BB6001DK, BB6011AK, BB6011BK, BB6011CK, BB6011DK, BB8KA06 Perimeter Strobes Plus Mini Bar, BB8KA06, Perimeter Strobes Plus Mini Bar, Strobes Plus Mini Bar, Mini Bar, Bar

References

- **[User Manual](#)**