Manuals+ — User Manuals Simplified.

BUILTBRIGHT BB8KA08 StrobeLink Configurator User Guide

STROBELINK™
ALL-IN-ONE STROBE LIGHT KIT
#BB8KA08
Harness Type A
8 perimeter lights + Mini Bar
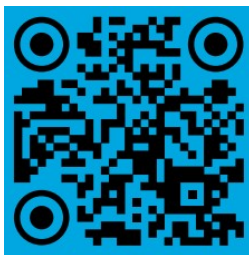**User Guide**

Contents

PARTS LIST

A. 1x Type A Main Harness (BB8K001)
B. 2x Short Y Splitter Adapters (BB8S001)
C. 2x Long Y Splitter Adapters (BB8S002)
D. 2x Extension Harness for Perimeter Strobe (BB8SE01)
E. 1x Type A Switch Harness
F. 1x 5 Core Pigtail
G. 6x Connector Caps
H. 18x Connector Retainers
I. 1x Inline Fuse Holder + 15 Amp Fuse
J. 1x Mini Bar Adapter
K. 1x 1 to 2 Y Splitter

Component labels in diagram:

- GRILLE
- MINI BAR ADAPTER **J**
- **K** 1 TO 2 Y SPLITTER
- **G** **6X** CONNECTOR CAP
- **18X** CONNECTOR RETAINER **H**
- SWITCH
- ROOF
- **A**
- **I** INLINE FUSE HOLDER + 15A FUSE
- POWER
- **F** PIGTAIL
- **E**
- **2X** SHORT Y **B**
- REAR
- **2X** LONG Y **C**
- **D** **2X** EXTENSION
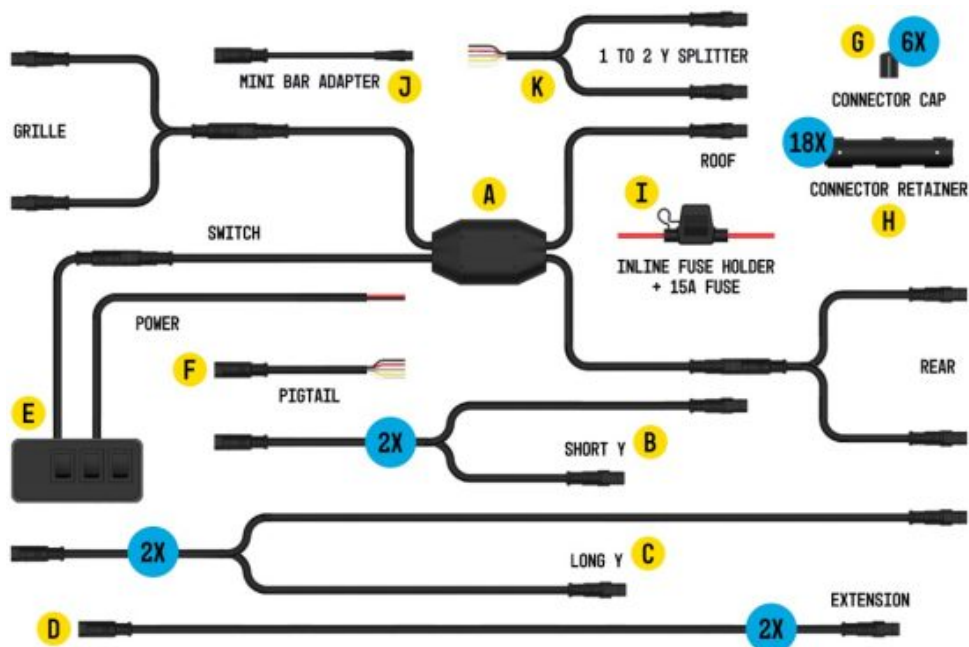
🛠 REQUIRED TOOLS

- Zip Ties
- Cable Clips

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

📓 INSTALL NOTES

- No cutting or drilling is required for the installation of the front grille strobes or roof top mini bar.
- Drilling is only required when mounting the lights on the rear tail gate, bumper or on the body of the truck.
- 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)		

DIMENSTONS
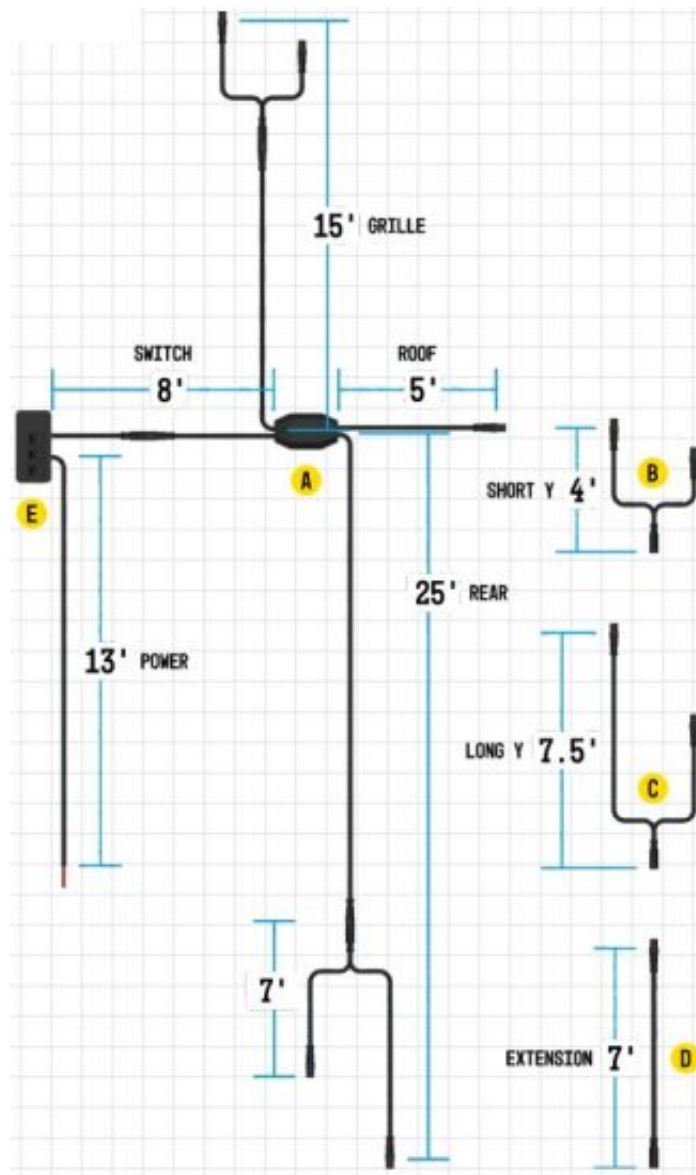
Step 1 – Plan the install

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 are 2x Short Y Splitter Adapters (B) and 2x Long Y Splitter Adapters (C) included in this kit. Please choose the proper adapter according the location you want to install your lights.
  Examples:
    - The Short Y Splitter Adapters (B) are 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 Adapters (C).
    - The Short Y Splitter Adapters (B) are long enough if you install the rear perimeter strobes under the tail gate. If you want to install the lights on the side of the vehicle, you may need to use the Long Y Splitter Adapters (C).
    - The standard harness and splitter adapters are long enough for standard pick up 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 Perimeter Strobe (D).

- An example configuration is shown on the next page for reference.

⚙️ EXAMPLE configuration

This example uses Harness Kit #BB8KA08, 8x 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.
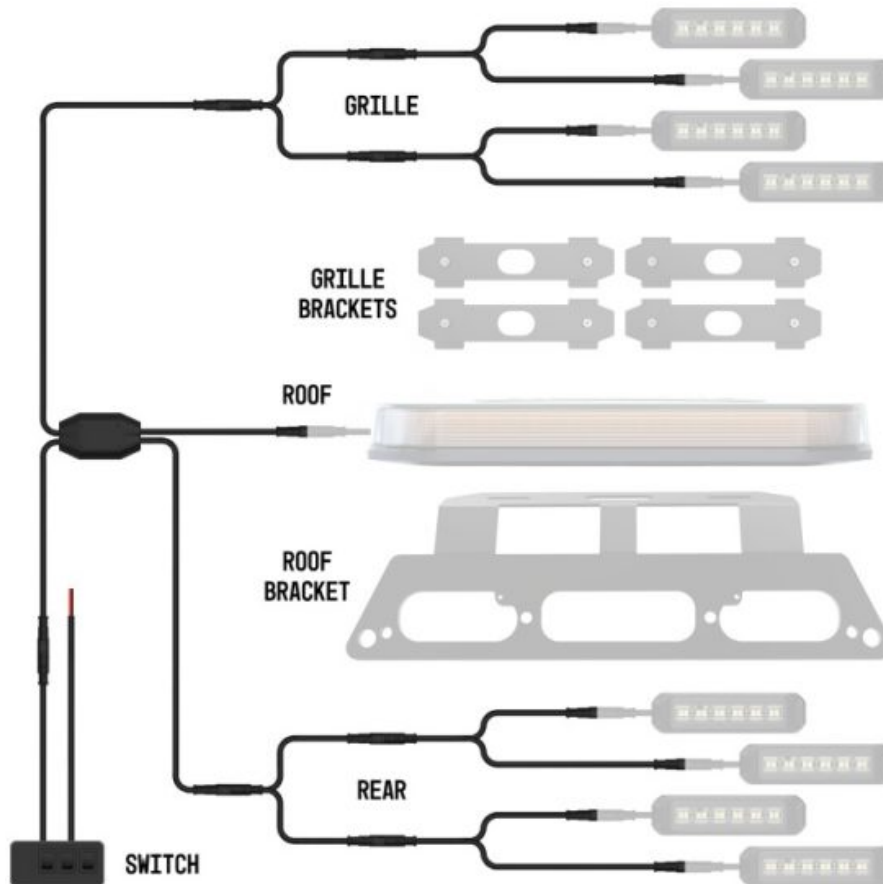
✌️ Step 2 – Program the Perimeter Strobe Lights

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).

FIG. 1

FIG. 2

GRILLE

ROOF

REAR

SWITCH
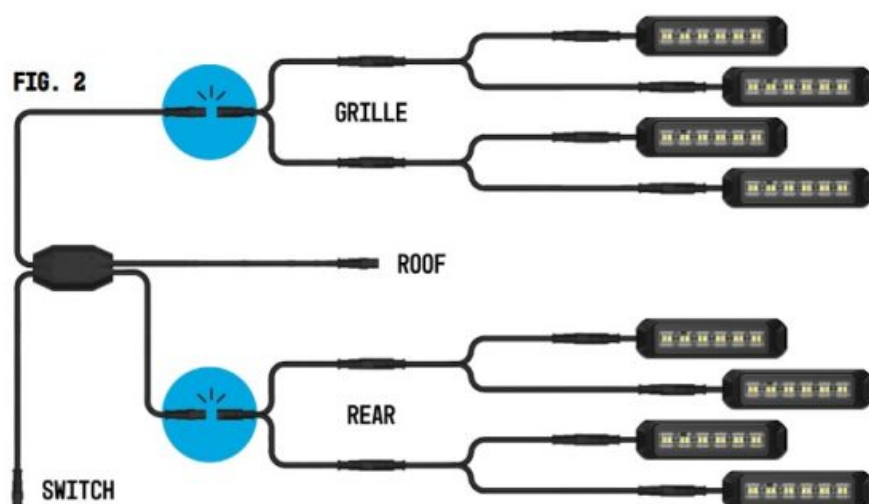
4. Use the 1 to 2 Y Splitter (K) to program all perimeter strobe lights together (Fig. 3). If preferred, use the 5 Core Pigtail (F) to program each of the light bundles separately.

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

FIG. 4

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

✌ 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 next pattern
- 1-3 seconds for 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.

SCAN FOR VIDEO PROGRAMMING
INSTRUCTIONS OR VISIT
BUILT-BRIGHT.COM/PROGRAM

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 getting into the female connectors during installation.

2. Locate the vehicle's main harness along the frame rail. Route the StrobeLink™ 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 to 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 towards 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
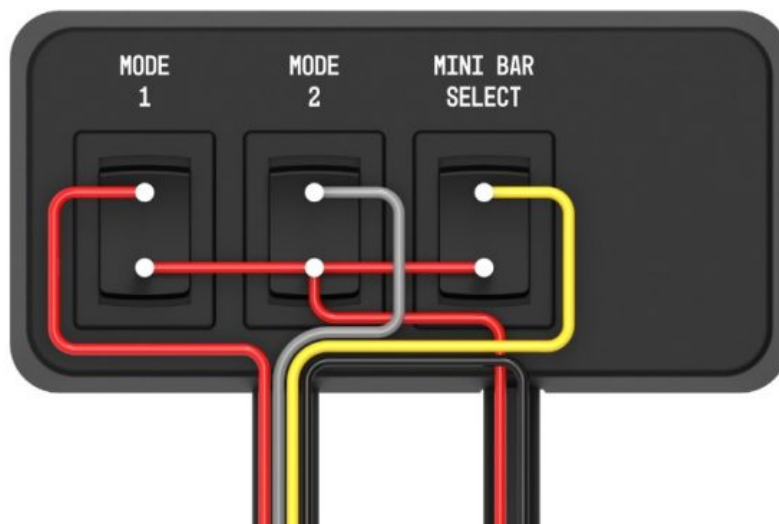2. Use Upfitter Switches
3. Use 3rd Party Switches

• **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 on the next 2 pages.

✋ Step 4 OPTION 1 – Use 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 switch wire 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 firewall) and route to the battery.
5. Connect the BLACK wire to ground. Connect the RED wire to 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 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.
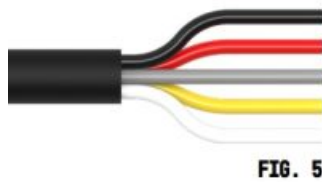
BLACK - Ground
RED - To +V DC, Programmable Mode 1*
GREY - To +V DC, Programmable Mode 2*
**YELLOW** - Mini Bar Pattern Selection
WHITE - Inactive

* Perimeter Strobe Lights and
Mini Bar together

✋ Step 5 – Test + COMPLETE

1. Test the StrobeLink™ 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.
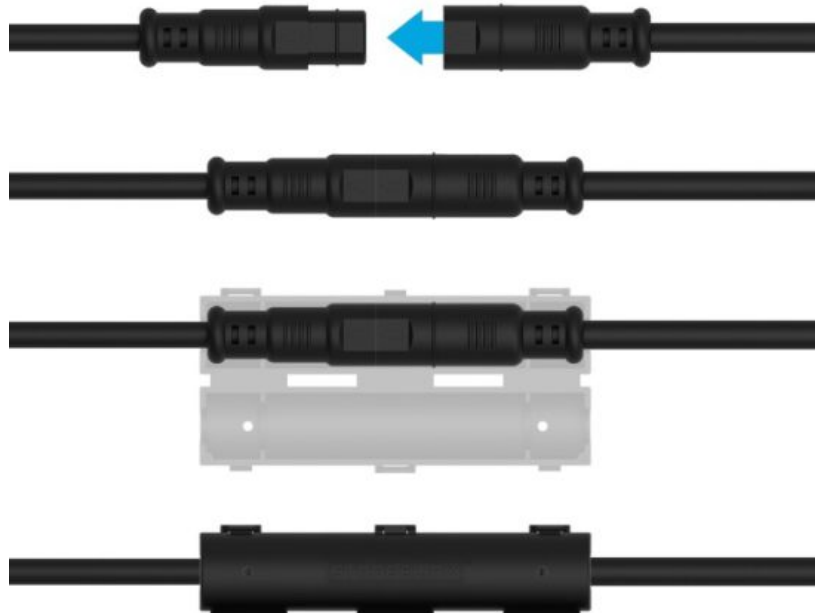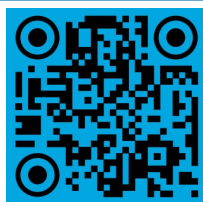
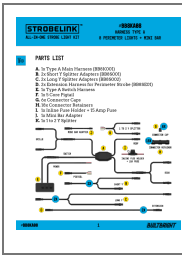

STROBELINK™
ALL-IN-ONE STROBE LIGHT KIT
BUILTBRIGHT®
BASTROP, TEXAS 78602
UNITED STATES OF AMERICA
WWW.BUILT-BRIGHT.COM

Documents / Resources

BUILTBRIGHT BB8KA08 StrobeLink Configurator [pdf] User Guide
BB8KA08 StrobeLink Configurator, BB8KA08, StrobeLink Configurator, Configurator

References

- **User Manual**