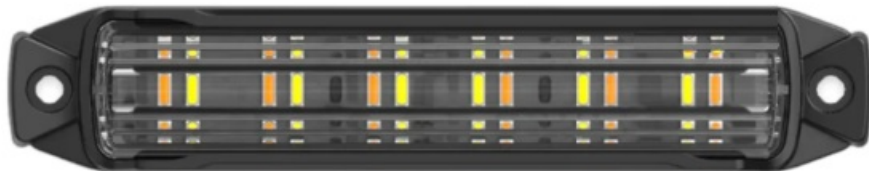# BUILTBRIGHT STROBELINK BB8KB10 All in One Strobe Light Kit Instruction Manual

BUILTBRIGHT STROBELINK BB8KB10 All in One Strobe Light Kit

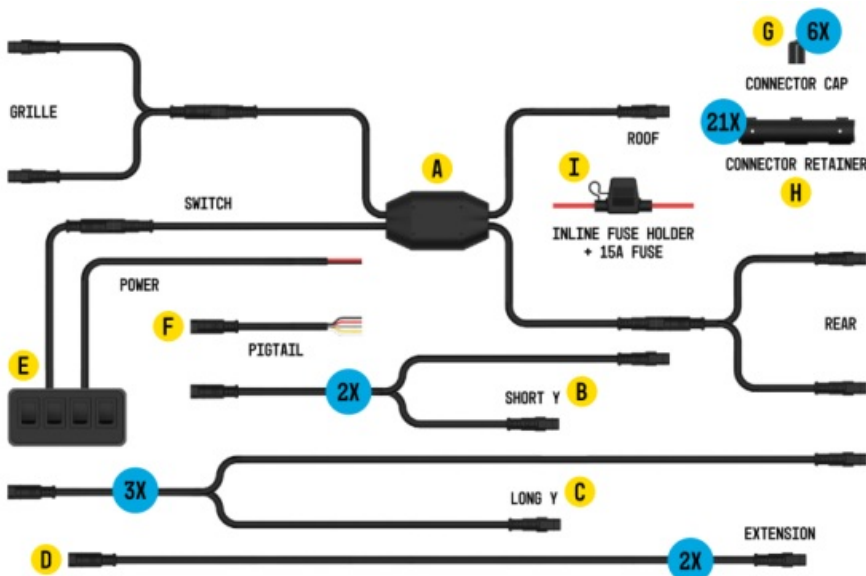**Contents**

PARTS LIST

- **A**. 1x Type B Main Harness (BB8K002)
- **B**. 2x Short Y Splitter Adapters (BB8S001)
- **C**. 3x Long Y Splitter Adapters (BB8S002)
- **D**. 2x Extension Harness for Perimeter Strobe (BB8SE01)
- **E**. 1x Type B Switch Harness
- **F**. 1x 5 Core Pigtail
- **G**. 6x Connector Caps
- **H**. 21x Connector Retainers
- **I**. 1x Inline Fuse Holder + 15 Amp Fuse

REQUIRED TOOLS

- Zip Ties

- Cable Clips

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

📋 INSTALL NOTES

- No cutting or drilling is required for front grille strobe installation.
- 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 1.5 – 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)	🟧	🟩

⌐ DIMENSIONS
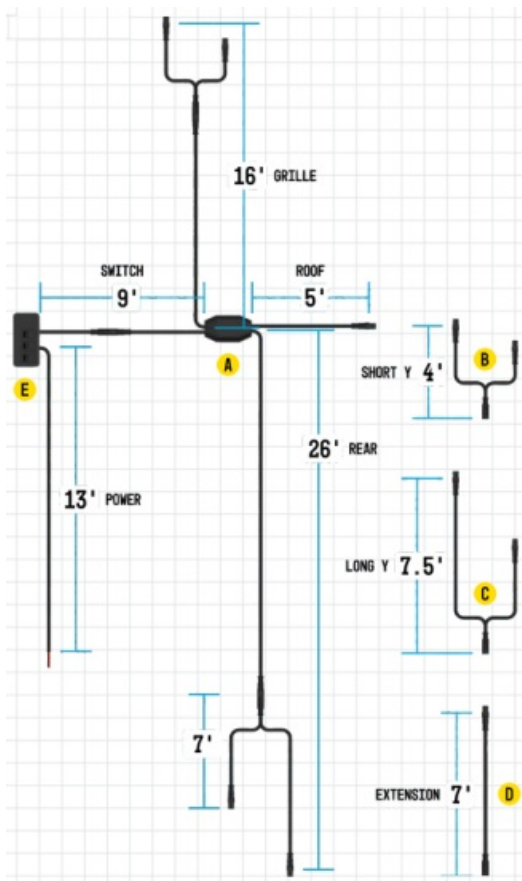
Plan the install

✋ Step 1

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 3x 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 #BB8KB10, 10x Perimeter Strobe #BB6110B and 2x Grille Bracket Kit #BB96GFA.

Lights and brackets are sold separately.
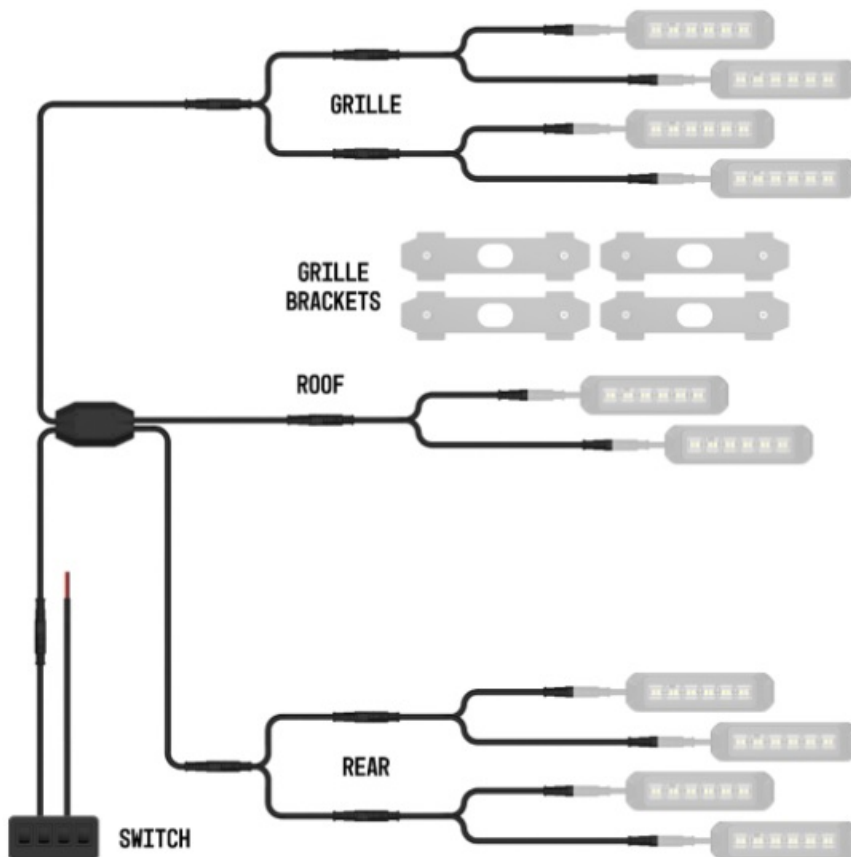
Program the Perimeter Strobe Lights

🖐 **Step 2**

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. To program grille lights and rear lights in groups (rather than individually), first plug the Switch Harness (E) into the Main Harness (A). Remove the pigtails from all perimeter strobe lights and plug the lights into the Main Harness (A).
3. Using the switch panel, turn on Mode 1. To program the grille lights, toggle the Front Select switch to select the pattern.
   Press less than 1 second to go to the next pattern and 2 seconds to go back to the previous one. Turn off Front Select, turn on Rear Select (includes both roof and rear lights) and repeat the process. Turn off the Mode 1 switch. Turn on Mode 2 and repeat the pattern selection process. Turn off the Mode 2 switch. Note: You can select different patterns for front or rear on Mode 1 and/or Mode 2.
   Refer to the Perimeter Strobe Light manual for the sequence of available flash patterns, or locate your digital manual here.
4. Once complete, disconnect the Perimeter Strobe Lights. You may leave them connected to the Y splitter adapters you've laid out, but leave them unplugged from the Main Harness (A).
   Disconnect the Switch Harness (E) from the Main Harness (A).

5. To program each light individually, use the female pigtail that came with the perimeter strobe light (Fig. 2).

FIG. 2

6. See Fig. 3 for individual wire functions. Refer to the perimeter strobe light instructions to program the RED , GREY and WHITE wires to desired strobe patterns.

BLACK - Ground
RED - To +V DC, Programmable Mode 1
GREY - To +V DC, Programmable Mode 2
WHITE - To +V DC, Programmable Mode 3
YELLOW - Pattern Selection

FIG. 3

7. Unplug the pigtail(s). If programmed individually, plug the perimeter strobe lights into the Y splitter adapters you've laid out, but leave them unplugged from the Main Harness (A).
If programmed together, unplug connections from the Main Harness (A). Light bundles will be reconnected to the Main Harness (A) once it's routed through the vehicle.

Install the harness and lights

 Step 3

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 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 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. The top wire of the Main Harness (A) is designed for two perimeter strobes on the roof, top of the headache rack, side of the running board or side of the bed. If used, route the wire labeled "Top" through the vehicle and connect a Y splitter adapter.
   - An example configuration is shown on the next page for reference.

⚙️ EXAMPLE configuration

INSTALL THE LIGHT CONTROL

✋ Step 4

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.

Use provided switch panel

OPTION 1

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).
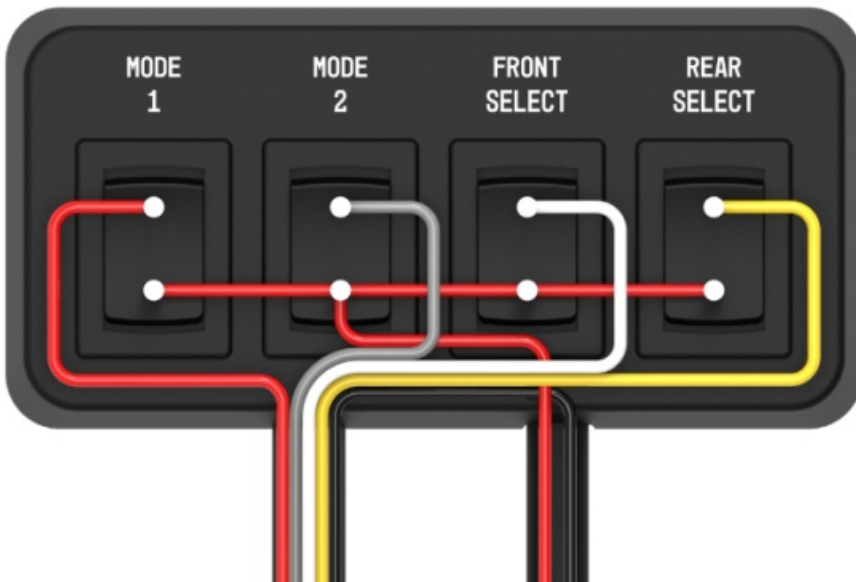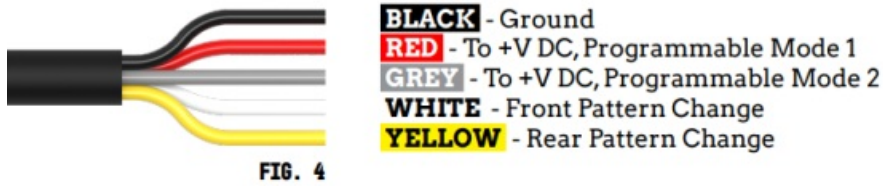

USE UPFITTER SWITCHES

OPTION 2

1. Plug the provided 5 Core Pigtail (F) into the switch connector on the Main Harness (A). See Fig. 4 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. **WHITE** and YELLOW wires are used for pattern change.
5. Unused wires should be separated and protected using heat shrink or tape.

USE 3rd party SWITCHES

OPTION 3

1. Plug the provided 5 Core Pigtail (F) into the switch connector on the Main Harness (A). See Fig. 4 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
WHITE - Front Pattern Change
YELLOW - Rear Pattern Change

FIG. 4

Test + COMPLETE

 Step 5

1. Test the Strobe Link TM 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.
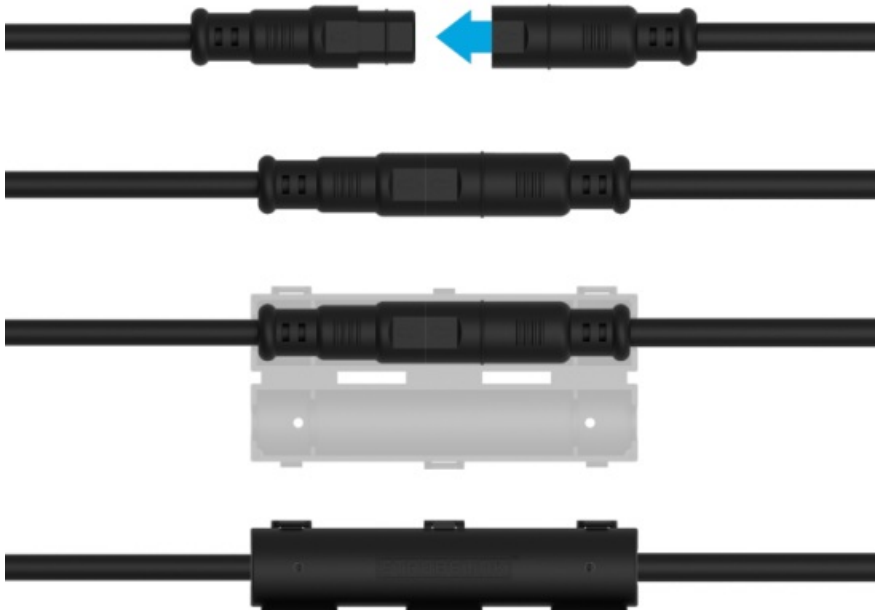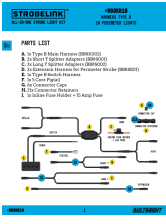

CUSTOMER SUPPORT

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Documents / Resources

BUILTBRIGHT STROBELINK BB8KB10 All in One Strobe Light Kit [pdf] Instruction Manual
BB8KB10, BB8K002, BB8S001, BB8S002, BB8SE01, BB8S001, BB8SE01, BB6110A, BB6110
B, BB6110C, BB6110D, BB6010A, BB6010B, BB6010C, BB6010D, STROBELINK BB8KB10 Al
l in One Strobe Light Kit, STROBELINK BB8KB10, All in One Strobe Light Kit, Strobe Light Kit, L
ight Kit, Kit

References

- **User Manual**