

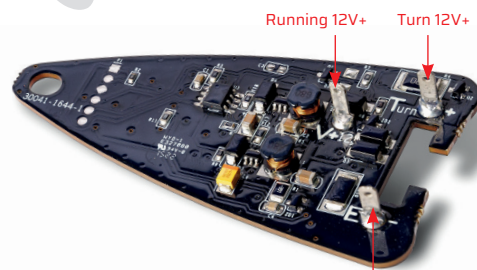
weiser

OSRAM
AUTOMOTIVE LIGHTING

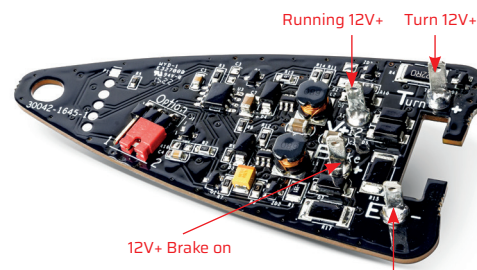
EXTREME EVO Installation Instructions NORTH AMERICAN SPECIFICATION



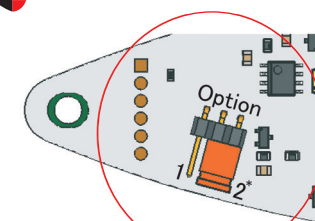
Please follow the instructions overleaf referring to the points shown on the schematic diagram.



FRONT LED Panel (3 pin)
EXT-EVO-DTC-BM03 / EXT-EVO-DTC-RGS1.



REAR LED Panel (4 pin)
EXT-EVO-RBT-BM03 / EXT-EVO-RBT-RGS1.



REAR Light Jumper Switch
EXT-EVO-RBT-BM03 / EXT-EVO-RBT-RGS1:
Option 1 Running Light except when indicating
Option 2 Running Light on whilst indicating (*factory default).

EXTREME EVO Installation Instructions

For BMW motorcycles fitted with CAN-bus electronics model years 2004-2023:

Follow the points below and refer to the schematic diagram.

- A.** Weiser solid state relay (fused) **Red v+ Brown v-** cables connects to motorcycle battery terminals. (**Remove fuse from relay before install and replace after all terminals on LED panels are connected. Only then turn ignition on to test**).
- B.** Four wires from relay - **Black, Grey, Red, Yellow:**
- i) **Black** wire takes 12v from relay takes power to both Weiser front white running lights and rear red running lights.
 - ii) **Grey** wire from relay takes 12v power to both Weiser brake lights.
 - iii) **Red** 'trigger' wire taps into any 12v wire that is a constant 12v live only when the ignition is on.
 - iv) **Yellow** 'trigger' wire connects to relay from bikes 12v brake wire; live only when the brake is activated.
- C.** *Turn signal wires from bike: **Blue = v+ Brown = v-**
- D.** **Four Black** 'Weiser' wires run from left and right turn signals at both the front and back of the bike; then three-way connect with POSI-TWIST (Blue connector) to the **Black** wire from the relay. (Black Extension wire supplied in front install kit to run from front to rear).
- E.** **Two Grey** 'Weiser' wires run from rear left and right turn signals; then three-way connect with POSI-TWIST (Blue) connector to the **Grey** wire from the relay.
- F.** POSI-TAP connector (**grey/red/yellow banded wire**) connects **Red** wire to relay from bikes 12v wire that is a constant 12v only when the ignition is on. (License plate light wire a **grey/red/yellow banded wire**, switches both driving lights/rear running lights on and off with the ignition).
- G.** POSI-TAP connects **Yellow** wire to relay from bikes 12v brake wire that is 12v only when the brake levers activated. Found going into the rear brake light often a **grey/black/yellow banded wire**.
- H. FRONT** Connect the 3 female Weiser connectors in the housings to the male pins on back of the Driving/Turn LED panel in the turn signal housings:
- i) **Brown** wire to pin **E-** (earth/ground)
 - ii) **Blue** wire to pin **TURN /+** (12v Turn)
 - iii) **Black** Weiser wire to pin **V+** (12v Driving)
- I. REAR** Connect the 4 female connectors in the housings to male pins on the back of both Weiser LED panels:
- i) **Brown** wire to pin **E-** (earth/ground)
 - ii) **Blue** wire to pin **TURN /+** (12v Turn)
 - iii) **Black** Weiser wire to pin **V+** (12v Driving and Running)
 - iv) **Grey** Weiser wire to pin **B+** (brake 12v)

* For models already fitted with early version BMW LED lights (two LED) or for current 2021+ BMW models with led turn signals. Replacement OEM turn signal housings and model relevant turn signal cables and connectors are supplied (plug and play) with each kit.



EXTREME EVO LED RANGE

NORTH AMERICAN SPECIFICATION 

Combination Multifunction LED lighting kit for BMW motorcycles model years 2004-2023. **Schematic Installation Guide Rev 04/11 2022**

DUAL FUNCTION

Front LED Driving Lights and Turn Signals
EXT-EVO-DTC-BM03 and EXT-EVO-DTC-RGS1

TRIPLE FUNCTION

Rear LED Running Lights, Brake Lights and Turn Signals
EXT-EVO-RBT-BM03 and EXT-EVO-RBT-RGS1

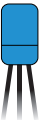
Weiser Technik, 5610 Scotts Valley Drive, Suite B-561, Scotts Valley, CA 95066, USA

For installs on motorcycles without CAN-bus electronics:

1. The relay is **NOT** required for motorcycles without a CAN-bus.
2. Follow step **C.** above.
3. Join and connect with a red and grey POSI-TAP the two **Black** wires one from each rear housings directly to motorcycle 12v wire that is constant live (only when the ignition is on).
4. Join and connect with a red POSI-TAP the two **Grey** wires one from each rear housing directly to the motorcycle's brake wire that's 12v (only when the brake is activated).
5. Follow step **H.** and **I.** above.

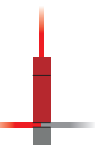
POSI-TWIST

Strip wire ends to be joined. Twist together. Unscrew Posi-Twist place wires through hole in head, screw back base to hold connection tight.



POSI-TAP

Unscrew grey end. Place wire to be tapped in U shape end. Screw red part tightly to grey. Unscrew red end. Strip end of wire to be joined. Insert through red end and screw down tightly.



POSI-LOCK

Supplied to aid any connection of two wires. Remove both red ends of posi-lock, strip ends of wires to be connected insert through red ends and screw ends back on tightly.



BMW OEM STYLE CONNECTORS

Install Information



Multifunction LED Motorcycle Lighting

BMW 'OEM' style INDICATOR CONNECTORS used in Weiser technik LED lighting installations. These connectors will swap out the factory fitted ones to install your CAN-bus compatible Weiser LED multifunction indicators.

Note 1: Due to differing motorcycle lighting regulations worldwide BMW currently uses the following connectors and wiring.

Note 2: Connectors used for the rear **USA spec BMW motorcycles** can be different to the rest of the world. Please read details below.

1. FRONT/REAR INDICATOR wiring

The 2 Pin connector **Blue V+**, **Brown V-** powers indicator function.

The BMW 2 Pin style indicator connector is standard fitting on the front and rear of BMW motorcycles worldwide 2004 - 2023.

Note: For USA spec BMW motorcycles 2004-23 This 2 PIN connector is also used for the rear indicators on all models and variations with the exception of S series motorcycles 2020 - 23 which uses the 4 pin (see below).

Two pin indicator connector front location

Two pin indicator connector



2. REAR INDICATOR wiring

4 Pin connector **Blue V+**, **Brown V-** powers indicator function. **Grey V+** powers brake function. (Note - Yellow wire is unpowered and serves no function).

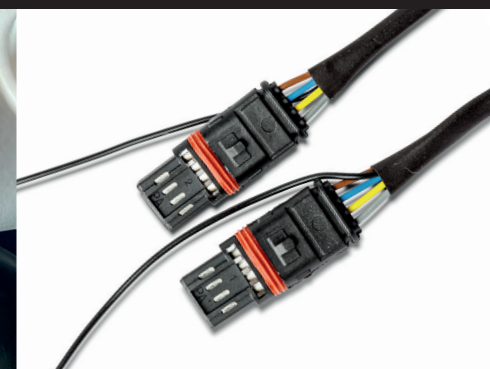
This new style of 4 pin rear indicator connector came into use in 2020 on the new S Series BMW bikes and is currently fitted to the following models worldwide:

2020 - 23 BMW S Series models and variations.

2021 - 23 BMW R 1250 GS/A models and variations.

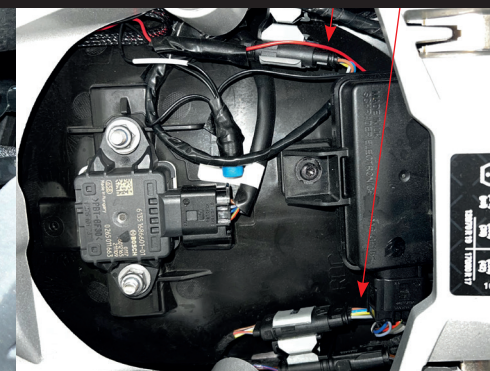
Two pin indicator connector rear location

Four pin indicator connector



Four pin indicator connector rear location

Four pin indicator connector location



INSTALLING LOCKING KEYS AND LENS

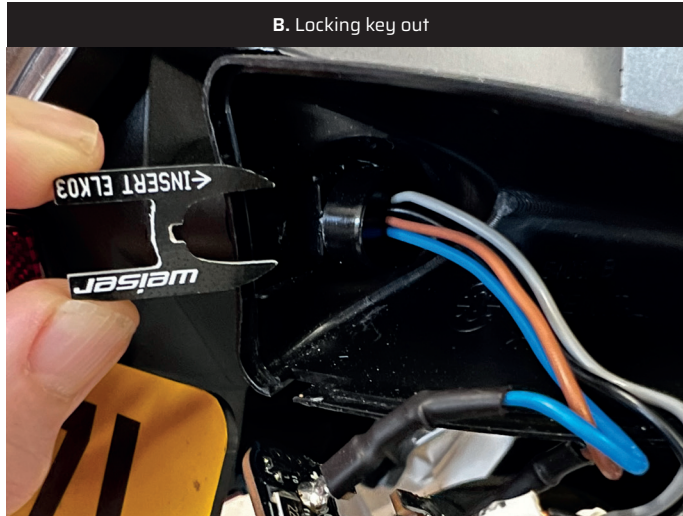
The Locking keys are included as added security to lock indicator stems in place. Note they must be inserted as per the photos...the notation 'bike side' faces into the bike.

Replace Lenses Note: Lenses and housings are left and right handed. Each lens has a small tab on its bottom edge. This should be aligned with the cut out in the bottom of the housing.

A. Locking key inserted



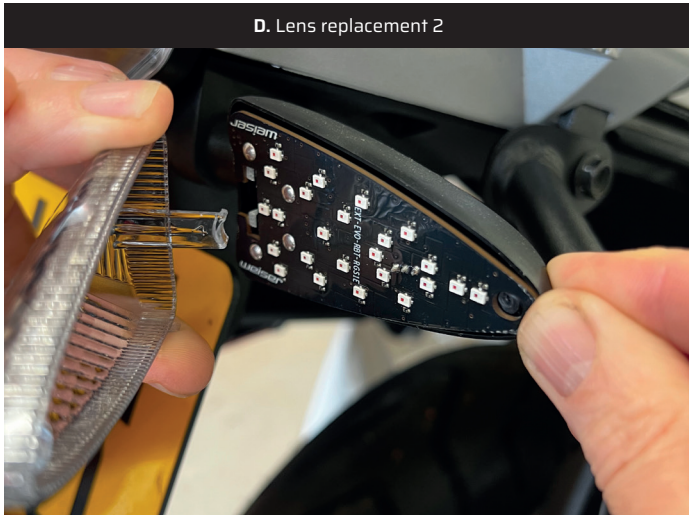
B. Locking key out



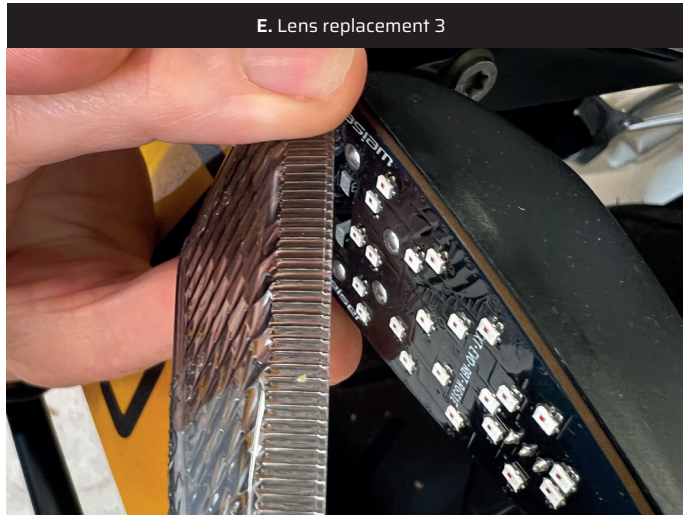
C. Lens replacement 1



D. Lens replacement 2



E. Lens replacement 3



F. Lens replacement 4

