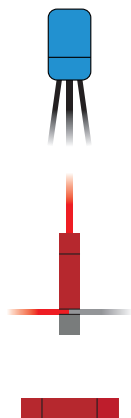
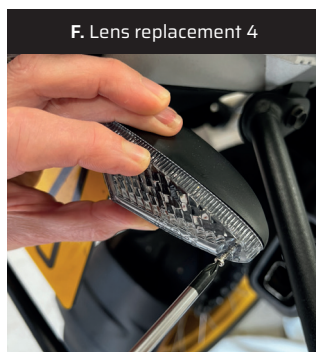
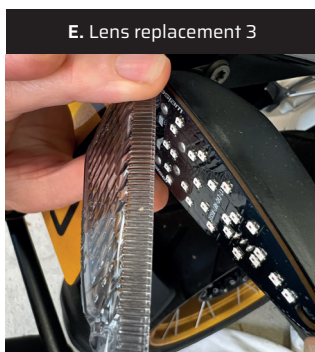
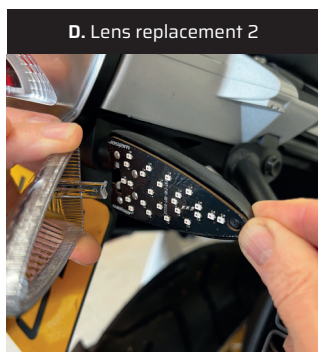
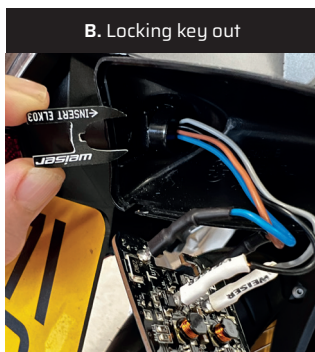
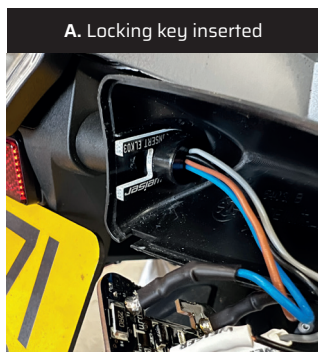


- ① The Locking keys are included as added security to lock indicator stems in place. Note they must be inserted as per the photos...the notation 'bike side' faces into the bike.

**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.



#### 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.



## Multifunction LED Motorcycle Lighting

# EXTREME EVO iss RGS1

## Multifunction front and rear LED Indicators

**Installation and Schematic Guide Rev 03/11 2022**  
BMW R 1250 GS & GSA model years 2021-2023\*



### DUAL FUNCTION

**Front LED Driving Lights & Indicators**

**P/N: EXT-EVO-DTC-RGS1**

Designed to replace BMW's OEM motorcycle front indicators with LED high intensity white driving lights and ultrabright amber indicators. Offering a major improvement in overall illumination/brightness with dynamic dual functionality and the added advantages of OSRAM LED's emitting 120 degrees of visible light, (lens diffused up to 180 degrees) for much greater conspicuity.



### TRIPLE FUNCTION

**Rear LED Running Lights, Brake Lights & Indicators**

**P/N: EXT-EVO-RBT-RGS1**

Designed to replace the BMW's OEM rear motorcycle indicators. Again offering a major improvement over OEM. Overall illumination and brightness is greater with added dynamic three way functionality; and the advantages of OSRAM LED's emitting 120 degrees of visible light (lens diffused up to 180 degrees). These rear lights additionally offer a choice of two pre-programmed indicator functions.

# EXTREME EVO RGS1 Installation Instructions

**\*NOTE: These instructions are for 2021-2023 R1250 GS models fitted with the BMW OEM 'Light pack' option.**

This guide can be used for the installation of either the front or rear LED kits or the combination of both. The install kit comes complete with all new housings and necessary wiring, connectors and fittings. The LED light units and electronics are compatible with the bikes CAN-bus electronics and will cause no 'fault codes'. The parts are supplied in part unassembled to make installation easier.

Prior to installation it is necessary to remove the motorcycles existing OEM indicators both front/rear at their connectors. You will have to remove or loosen some of the motorcycle's body panels etc to gain access to remove these and to run the additional wiring required. The new Weiser connectors supplied are compatible with the bikes existing OEM connectors etc.

Follow the points below and refer to the schematic diagram supplied.

- 1** Disconnect & remove the OEM Front indicators. Replace the indicator wiring with the supplied 2 pin Weiser indicator connector harness 12v indicator power (blue) and V-Earth (brown) image 1.

- 2** Disconnect and replace the OEM rear indicators with the 4 pin Weiser indicator connector harness indicator power, 12v (blue), v- Earth (brown), 12v Brake on (grey) and 12v running on (black) image 2.

- 3** Replace with the new Weiser housings using the original bolts you removed checking to make sure the small cut out in each housing (adjacent to the lens) is facing downwards after installation. Thread all wires with terminals from the new harnesses carefully one by one through so they are visible about 5cm in each housing. These will be connected to the LED panels later in the install.

- A** The supplied Weiser solid state relay (fused). **Red v+ Brown v-** cables connects directly to the motorcycle battery's terminals. Remove fuse from relay before installation and replace after all terminals on LED panels are connected. Only then turn ignition on to test circuitry. (It is possible also to install via a Power Distribution Module 'PDM' if you have one installed. Follow the PDM manufacturer's instructions ).

- B** There are four wires from relay - **Black, Grey, Red, Yellow**. Only the **Black & Red** relay wires are needed for this installation as the other two wires are already contained within the new rear 4 pin indicator harnesses.

- i) Relay **Black** wire takes 12v from relay, this takes power to both Weiser front white running lights and rear red running lights.
- ii) Relay **Grey** 12v Brake wire is **not used in this install** as the grey wires for the rear indicators to the bike are part of each of the rear 4 pin new indicator harnesses supplied. These plug straight into the bike's existing indicator connectors. (see point 1. above).

1. Two pin indicator connector



2. Four pin indicator connector



- iii) Relay **Red** input 'trigger' wire. This wire triggers a constant 12v supply used to power the running lights in each front and rear indicator. We recommend Posi-tapping the licence plate 12v+ wire as it's easy to access. This wire is found going into connector on the back of the main rear brake light unit. It is a **blue/brown wire**.
- iv) Relay input **Yellow** 'trigger' wire connects to relay from bikes 12v brake wire. **Not used in this install**. Again, this wire is integrated in the new 4 pin indicator harnesses supplied. These plug straight into the bike's existing indicator connectors. (see point 2. above).

## FRONT Install: Dual Function Driving Lights/Indicators

- C** New indicator wiring with 2 pin connector added in Points 1 & 2 is thread through housings for later connection to the Weiser LED panels. **Blue = v+ Brown = v-**
- D** The two new **Black** 'Weiser' wires with female termination run from left and right turn signal housings & then three-way connect using a POSI-TWIST (Blue connector) using the extension black wire back to the **Black wire on the relay**. We recommend running the extension wire down the right hand side of the bike. Note: the two loose black wires from the rear indicator connectors will also connect to the relay at this same point.
- E** POSI-TAP connector connects **Red** wire on the relay to a 12v supply that is a constant only when the ignition is on. (License plate light wire, as above **blue/brown wire**. Switches both driving lights/rear running lights on and off with the ignition).
- F** **FRONT LED PANEL** Connect the 3 female Weiser terminals 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 Light)

## REAR INSTALL: Triple Function Running lights/ Brake lights/Indicators

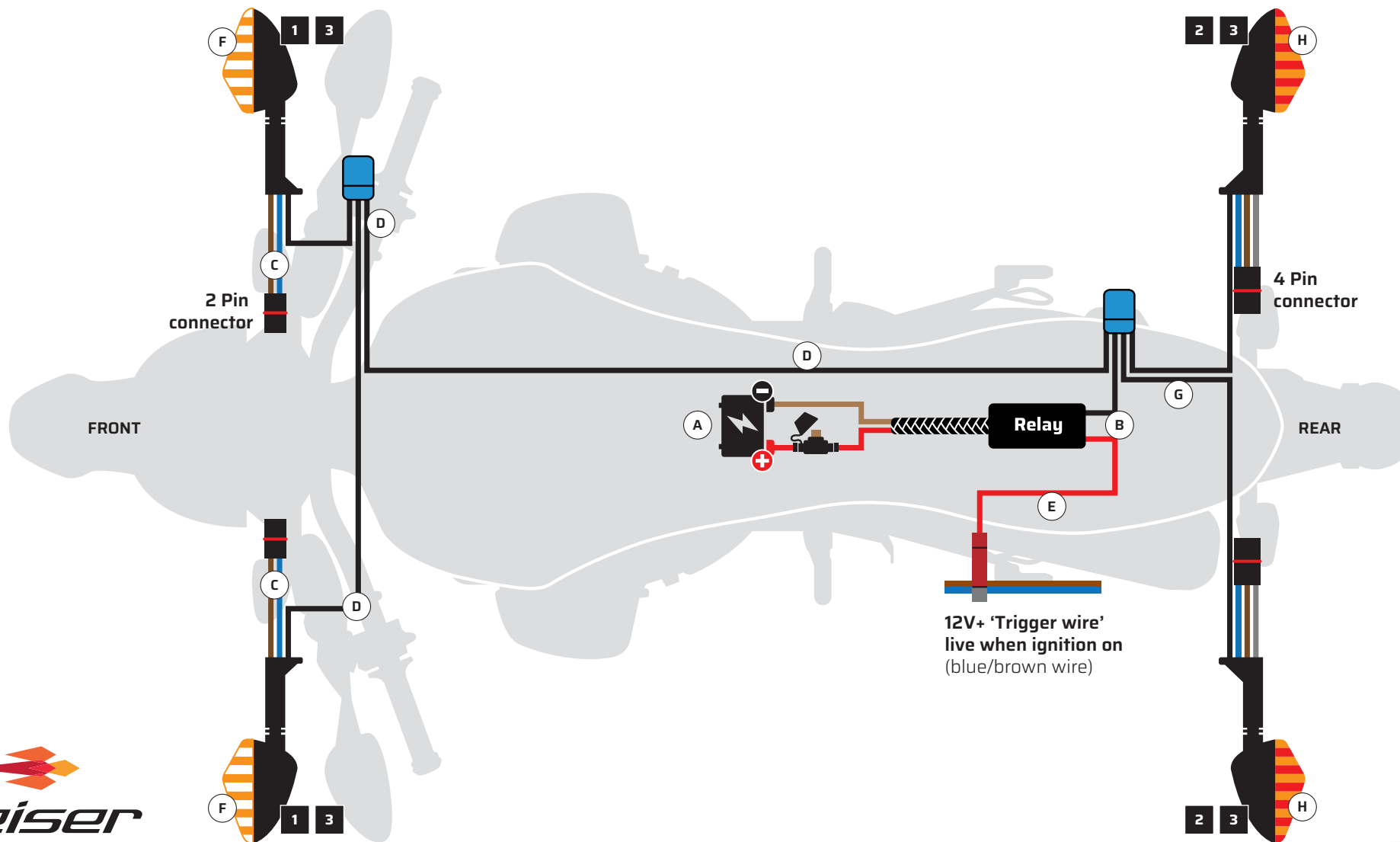
- G** The 12v **Black** wires for the rear running lights are contained within the rear 4 pin connector harness. These come out of the harness adjacent to where the main 4 pin connector plugs into the bike. These two wires connect the **Black** wire on the relay using a blue POSI-TWIST supplied. If you have the front lights fitted; the rear lights will connect to the same point on the relay as the front. (All the other wires required to connect and power the rear lights from the motorcycle are contained in the 4 pin connector harness).
- H** **REAR LED PANEL** Connect the 4 female Weiser terminals 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)

F. Front LED panel



H. Rear LED panel





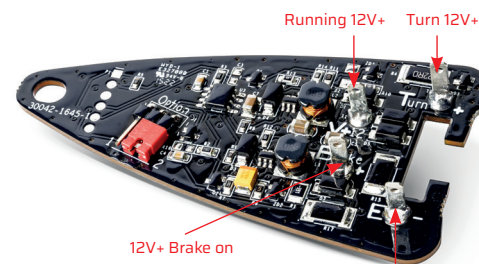
**weiser**  
OSRAM  
AUTOMOTIVE LIGHTING

## EXTREME EVO RGS1 Installation Instructions for 2021-2023 R1250 GS MODELS

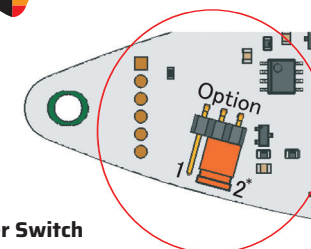
Please follow the instructions overleaf referring to the points shown on the schematic diagram.



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



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



### REAR LED Jumper Switch

EXT-EVO-RBT-RGS1:

Option 1 Indicator flashes bright amber only  
Option 2 Indicator flashes bright amber with red running light (low intensity) between flashes.\* (\*factory default).



# 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:

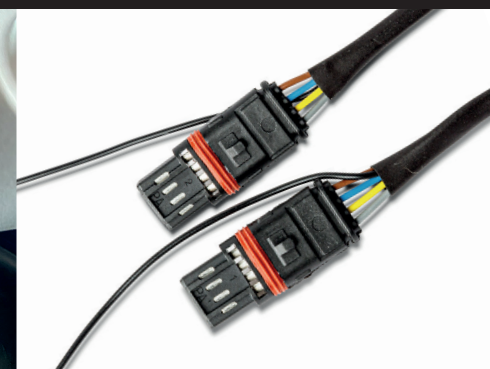
**2020 - 23 BMW S Series models and variations.**

**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

