Installation Instructions
BMW Accessories

Auxiliary Can Bus Brake – Tail Light

These instructions must be read carefully and thoroughly before beginning work. These instructions are intended to supplement information provided to BMW trained technicians and are not intended to be a complete information source. BMW accepts no liability for damage caused by failure to observe the installation instructions.

The can bus brake-tail light modules provide an auxiliary brake-tail light function to BMW motorcycles and is not intended to be the only brake-tail light source on the motorcycle. BMW accepts no responsibility for the function or durability of aftermarket accessories fitted to BMW motorcycles nor accepts any liability for their warranty.

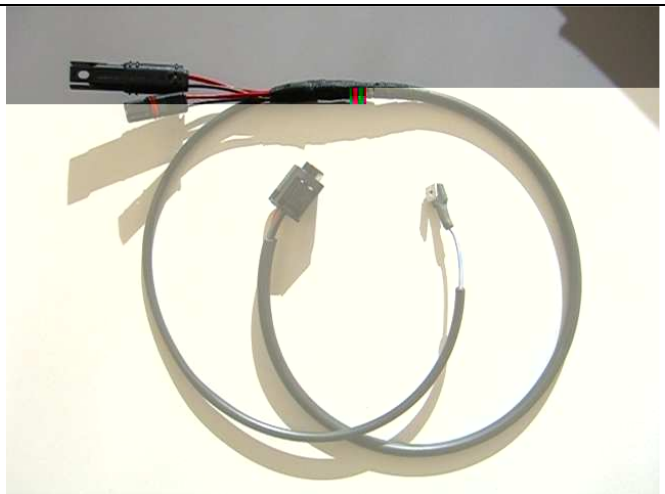
Caution:

When installing the can bus brake-tail light, ensure that all four mounting bolt locations are utilized to secure the brake-tail light module & license plate. Never use just two mounting bolts to secure this accessory.

The can bus brake-tail light is sold separately from the wiring harnesses used to connect the light to the motorcycle. PN 63 00 0 445 578
This new accessory has three inputs:

Power = RT/WS (can bus power socket +)
Ground = BR (can bus power socket -)
Brake/Tail Trigger = GR/WS (mc tail light wire)

A circuit board inside the brake-tail light module translates the can bus brake-tail light signal from the motorcycle, switching the light from tail to brake as directed, with power to illuminate the LED's supplied from the motorcycle power accessory socket, which is can bus, so there is no parasitic drain from this accessory when the ignition is turned "off".

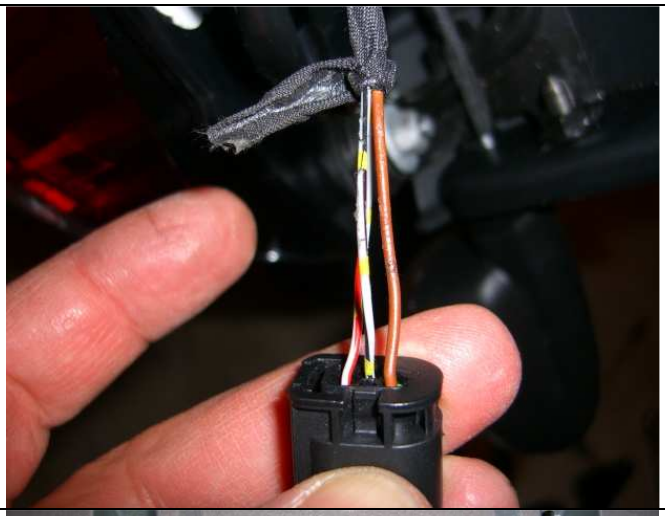


Two different harnesses currently exist for BMW can bus models.

PN 61 00 0 445 579 is for the R 1200 RT model.

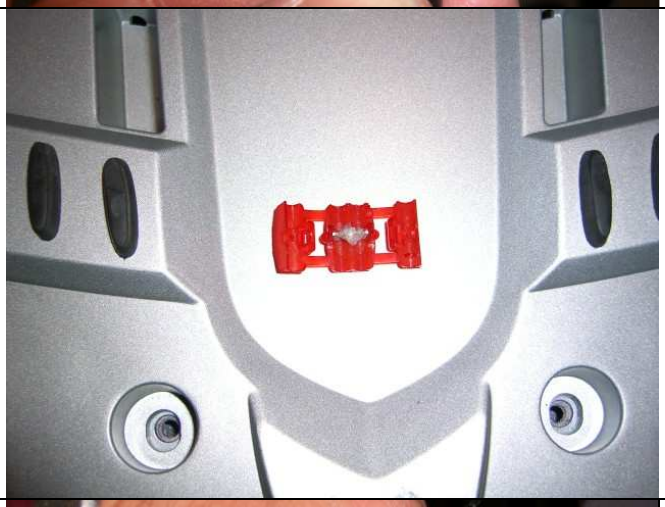
PN 61 00 0 445 580 is for K 1200 GT, R 1200 GS and R 1200 GS Adventure models.

An additional part is needed for GS and Adventure models – a 20-22 AWG dual splice connector. Additionally, die-electric grease should be used on the splice connector.



On GS models, remove the tail light mounting from the motorcycle to gain access to the electrical plug. Strip back two inches of protective wire tape to expose the wires. The center GR/SW/GE wire possesses both brake & tail signals, so this is the wire to connect the trigger lead from the harness for the can bus brake-tail light.

Loosen the three 10 mm nuts securing the tail light assembly to the mounting frame sufficiently to run the plug for the can bus brake-tail light harness down between the tail light assembly and the mounting frame. Retighten the three 10 mm nuts.



Apply a small amount of die-electric grease to the connector to prevent corrosion later in use. Cut-off the ¼" male/female blade connector from the trigger wire, strip back the PVC cover 1.5" to enable connection to the splice connector. Connect the GR/SW/GE wire to this connector, and then install the trigger wire from the harness.

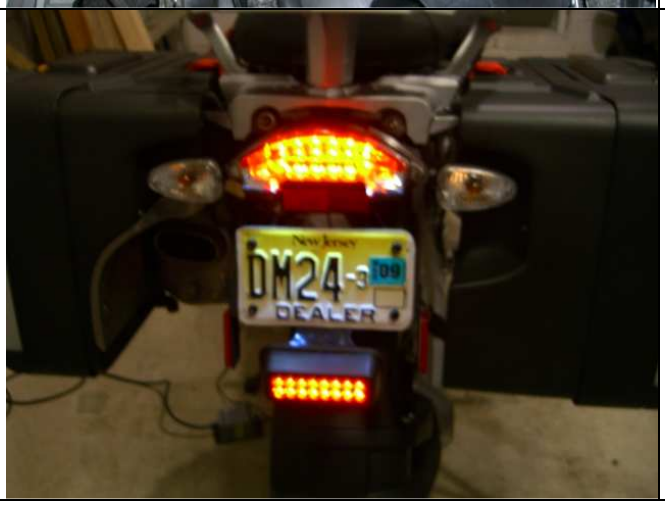
Note:
Test the connection with a test lamp before completing the splice to ensure that you have a solid connection to the motorcycle tail light signal. The test lamp will glow (not illuminate brightly) unless you apply the brake.

Bundle the excess harness behind the tail light and secure with a cable tie.

Secure the can bus brake-tail light to the license plate holder, and then secure the plug connection to the frame to ensure it does not become damaged.

Caution:
Always secure the can bus brake-tail light assembly using all four mounting bolts! Do not secure with temporary reflector & wing-nut fasteners. Use 6 mm bolts!

Run the can bus brake-tail light harness beside the factory harness from the tail light area to the power accessory outlet. Secure with cable ties and plug into the accessory outlet with the special Hirschman pin and socket housings supplied with the harness. Secure with cable ties as shown.



Test the system to ensure that the can bus brake-tail light assembly functions properly.