SercoMoto

SercoCAN Installation Guide

BMW RDC connection / English

This guide explains how to connect SercoCAN through the BMW RDC connector, connect the lights and restore battery power. Before installation, check that the motorcycle connector matches the supplied harness. Photos help identify components; refer to your motorcycle for the actual location.

Supported models R1200GS / R1250GS / F750GS / R1200RT
R1250RT / F850GS / F900GS

Each model requires the matching adapter harness. The steps below cover RDC connectors. For other connector versions, follow the instructions supplied with the corresponding harness.

1 Switch off and disconnect the battery

Turn the ignition OFF, move the key away and wait for the motorcycle electronics to enter sleep mode. Disconnect the battery negative terminal (−) first, then the positive terminal (+), to prevent a short circuit if a tool touches the frame.

2 Identify the RDC connector

Remove the seat and check the rear electronics area. On motorcycles with an RDC tyre pressure monitoring module, use the original connector on that module. On motorcycles without the module, locate the original terminating resistor plug or blanking cap on the corresponding harness connector.

Check the connector shape, pins and locking tab before connecting. Do not force the connectors together.

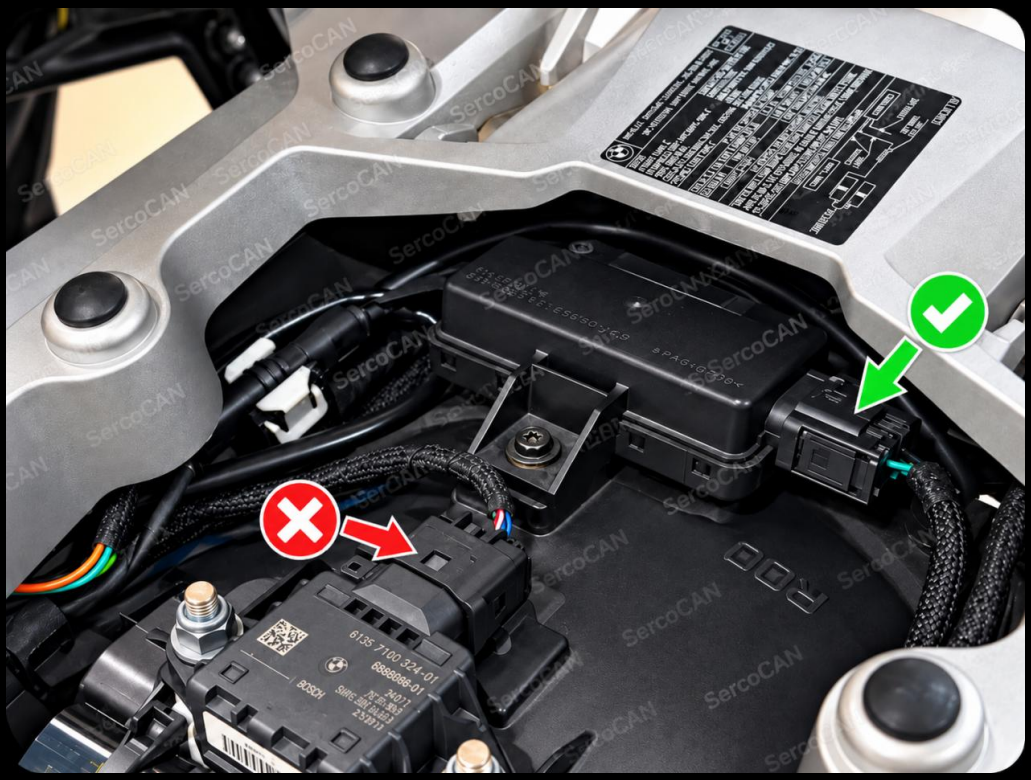


Fig. 1 Green arrow: connection point. Red cross: do not disconnect here.

3A Motorcycles with an RDC module

1. Release the lock and unplug the original connector from the RDC module.
2. Connect it to the matching end of the SercoCAN adapter harness, then connect the other end back to the RDC module to form an inline connection.
3. Connect the round plug on the adapter harness to the SercoCAN connector. Make sure all locking tabs are fully engaged.

3B Motorcycles without an RDC module

1. Locate the original terminating resistor plug or blanking cap at the RDC harness position. Check that it matches the supplied adapter harness, then release and remove it.
2. Connect the original harness connector to the matching end of the SercoCAN adapter harness. Refit the removed resistor plug or blanking cap to the corresponding remaining connector on the adapter harness.
3. Connect the round plug on the adapter harness to the SercoCAN connector. Make sure all locking tabs are fully engaged.

Note: A terminating resistor plug is not an ordinary dust cap. Do not discard it or replace it with a plain blanking cap. If the motorcycle has no matching spare connector, confirm the correct dedicated harness solution first.

4 Connect the lights and secure the harness

SercoCAN has four light connections: two for the main lights and two for the auxiliary lights. Follow the harness labels and do not mix the two groups. Secure the controller and harness away from hot parts, sharp edges and moving components. Make sure the seat cannot pinch the harness.



Fig. 2 SercoCAN controller and installation area

5 Reconnect the battery

First reconnect the fused SercoCAN positive lead together with the original positive lead to the battery positive terminal (+). Then reconnect the SercoCAN negative lead together with the original negative lead to the negative terminal (−). Use the polarity markings on the harness terminals; do not rely on wire colour alone.

6 Check operation

Check that all connectors are locked, battery terminals are tight and the harness is secured, then turn the ignition ON. Test the main lights, auxiliary lights and their controls separately. Check for any new motorcycle fault warnings. Refit the seat after testing.

If the lights do not respond or a new fault warning appears, switch off and recheck the connectors, light group connections and supply polarity. Do not repeatedly unplug or reconnect live connectors.