

ECU
REMAPPING

CARS/TRUCKS/TRACTORS
MODULES

MOTORBIKES
MODULES

POWER TEST
BENCHES



User manual

1 KRB-EVO2-005 / 005A

Applicability

BMW M 1000 RR 20-24
BMW S 1000 RR 19-25

Precautions/Disclaimers

For the correct RAPID BIKE module function (later shortened to 'RB'), the motorcycle system must be intact and fully functional. Installation must be carried out by competent personnel and the supply conditions such as "Appendix 1" at the end of this instruction manual, must be read and accepted.

1.1 Preliminary operations

1. Switch off the engine.
2. Remove the driver and passenger seat.
3. Remove the front and side fairings, including the fuel tank.

1.2 INJECTION and POWER SUPPLY Section

For this application, the injection connection with the RB harness involves only the upper injectors.

1. Locate and disconnect the 4 black and blue 2-pin connectors.

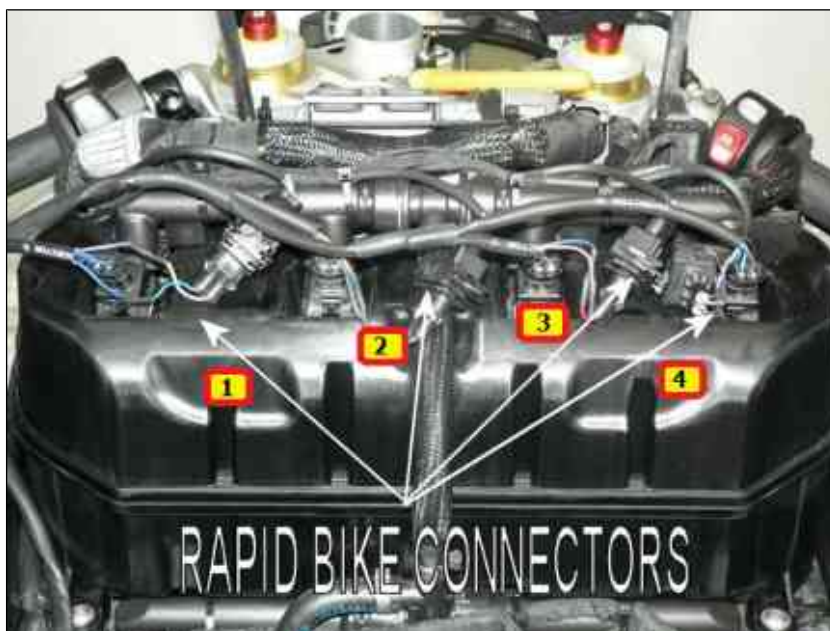


2. Connect the RB connectors to the injectors and the original wiring harness from left to right.

Please follow the following order:

INJECTOR 1 → left injector; **INJECTOR 2** → central/left injector;

INJECTOR 3 → central/right injector; **INJECTOR 4** → right injector.



1.3 LAMBDA SENSORS Section

1.3.1 1-2 Cylinders Lambda (O2) sensor (O2 SENSOR 1)

Position:

left side down, under the crankcase.
Connector: 5 pins type, BLACK color.



To unlock the connectors, extract the gray tab and press slightly downwards; then you can extract the male from the female seat.



What to do:

Disconnect the original connectors and interpose those of the Rapid Bike harness signed as **WB1** .



Using the supplied strip ties, fit and lock the connectors in place.

1.3.2 3-4 Cylinders Lambda (O2) sensor (O2 SENSOR 2)

Position:

on the right side between the engine and the exhaust manifold.

Connector: 5 pins type, BLACK color.

**What to do:**

Disconnect the original connectors and interpose those of the Rapid Bike harness signed as **WB2**.



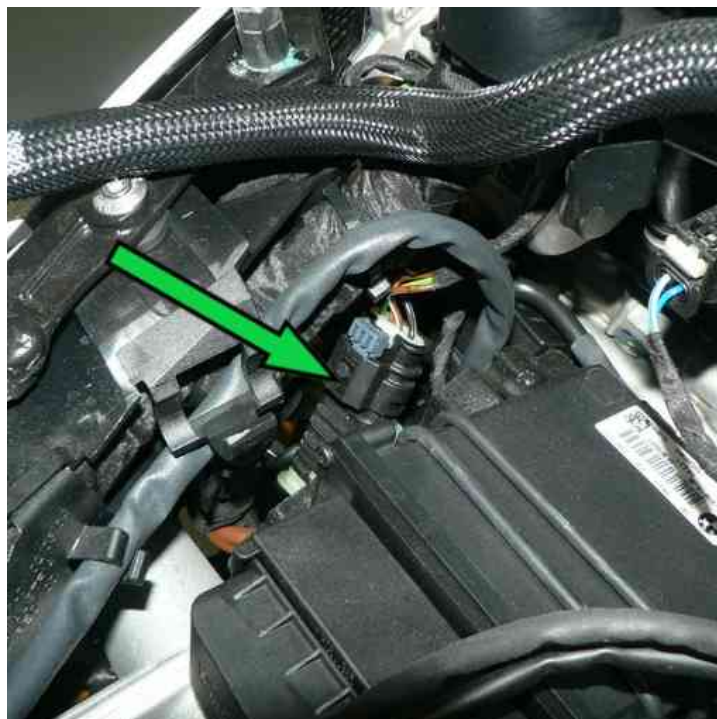
Using the supplied strip ties, fit and lock the connectors in place.

1.3.3 Rear left Lambda probe, post-catalytic converter.

Position:

under the tank.

Connector: 4-way type, White/Black colour.



To detach the connectors, use a flat-bladed screwdriver to lever in the direction of the arrow in order to move the locking hook.



What to do:

Disconnect the original connectors and interpose those of the Rapid Bike harness signed as **NB1**.

Using the supplied strip ties, fit and lock the connectors in place.

1.3.4 Rear right Lambda probe, post-catalytic converter.

Although there is a rear probe for cylinders 3 and 4, this will not be connected with the RB harness.

1.4 DIAGNOSTIC Section

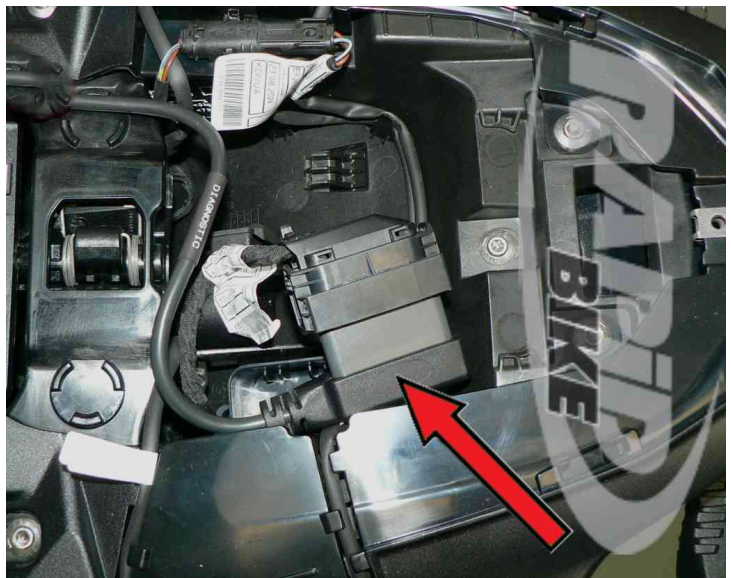
Position: tail section.

Connector: 16-pins diagnostic, BLACK color (OBD2).



What to do:

Remove the cap and insert the *RB* connector marked as "**DIAGNOSTIC**"



WARNING

The connectors joined in this way are not waterproof. Using insulating, waterproof and temperature-resistant tape (not supplied in the kit), proceed to tape the connectors at their junction so as to prevent the entry of water and humidity.

1.5 FINAL OPERATIONS

1. Connect the eyelet from the RB wiring to the negative pole of the battery.



2. Place the RB control unit in the tail section storage compartment.
3. Connect the wiring to the RB control unit.

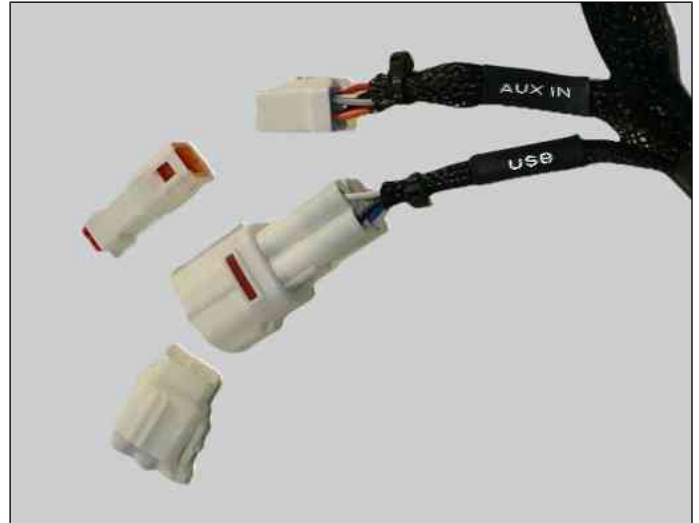


4. Check that all connectors have been connected correctly.
5. Reposition the tank and the seats.

1.6 ACCESSORIES and EXTRAS

This RB harness is designed for the use of any accessories:

- USB connector (4 PIN) for connection to PC.
- AUX IN connector (6 pin)** for Rapid Bike accessories.



WARNING

Connectors for unused accessories must be sealed with the provided caps.

(**) To use EVO/RACING (first version) accessories you need the additional adapter F27-ACC-ER2 to convert the 'AUX IN' with 6 pins into CAN (3 pins) + AUX (3 pins).



1.6.1 Smartphones APP

The Bluetooth interface of the **EVO2/RACING2** control unit also allows the connection and management of some parameters with your smartphone; search the “**Rapid Bike**” app available in the Android® and IOS® store.

Rapid Bike

Dimsport Srl



WARNING

Use of a smartphone while driving is not permitted; with the APP make changes while stationary with the engine idling; close the APP before leaving.

1.6.2 Online functionalities

Useful links for:

Information: <https://www.dimsport.it/en/rapid-bike/>

Reserved area: <https://reserved.dimsport.com/login.aspx>

Software: <https://www.dimsport.it/en/rapid-bike/rapid-bike-software-master/>

Appendix 1

The User declares, under his own responsibility, that device is realized to be used only for competitive purposes in race track which is not open to the public. It is understood that the infringement of the aforementioned limitation may entail a sanctions infliction.

Without prejudice towards what is set forth in previous paragraph, if vehicle performances or characteristics, as indicated in vehicle registration certificate, were to vary, it is necessary to revise such vehicle registration certificate. Therefore, the User shall bring, under his own responsibility, such operations.

RAPID device allows the User to have access to some engine parameters (for example: turbo/manifold pression, rail, speed limiter, etc.). Changing such parameters might make the vehicle non in compliance with some power and/or speed and/or emissions standards of Your Country and also might determine a superior wear and tear of mechanical and electrical components of the vehicle, to the point that manufacturer's (or seller's) warranty might be considered void.

Dimsport Srl (except as set forth hereafter) does not grant any warranty and shall never be considered liable for any disruption that may derive from using device, in particular with respect to any extra wear and/or deterioration of the engine or of any other mechanical and/or electrical part of vehicle.

The reading and understanding of device Instructions must forerun the use of device (in all its parts).

If the User is a consumer of the provisions of D.lgs 206/2005 which concern the conformity, warranty of purchased items shall apply (in accordance with such D.lgs 206/2005, a consumer is a person that buy products outside from his business). Therefore, the consumer with no extra expenses, has the right to obtain the conformity restatement of purchased item, by its replacement or reparation. For this purpose, Must be informed about item non-conformity within 2 (two) months from the discovery of such non-conformity. This warranty covers the defects that come within 2 (two) years from the delivery. The normal "wear and tear" shall never be considered non-conformity. This warranty shall never be applied if the consumer alters device and/or if the consumer directly or indirectly repairs it and/or if the non-conformity is due to improper, negligent or imprudent use of device.

If the User is a professional user, Only warrants that device is free from manufacture defects for 2 (two) years from the purchase date, provided that the professional user is able to demonstrate such date by showing proper documentation.

UNDER NO CIRCUMSTANCES SHOULD DEVICE BE USED TO BREAK THE LAW OF THE COUNTRY OF USE OF THE VEHICLE. FAILURE TO COMPLY WITH SUCH PROVISION WOULD DETERMINE THE IMMEDIATE TERMINATION OF THIS AGREEMENT.

Without prejudice to mandatory law provisions, Dimsport srl shall be relieved from any and all contractual and / or extra-contractual liability for personal injury; for direct and / or indirect damage (both with reference to emerging damage and loss of profit); for any claim and / or cost of any kind; which has been suffered by the User or by any third parties and which may derive from the use or misuse and / or may depend and / or in any case may be attributable to device, except in the case that those events may be attributable to

Dimsport srl for wilful misconduct or gross negligence. The foregoing limitations and exclusions shall be applied to the maximum extent permitted by legislation in force in the User's jurisdiction.



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