

ECU
REMAPPING

CARS/TRUCKS/TRACTORS
MODULES

MOTORBIKES
MODULES

POWER BENCH
TESTERS



Benelli TRK 502 / X / Leoncino 17-24

INSTALLATION INSTRUCTIONS

Attention: For a correct RB feeding voltage, check the operation of all motorbike electrical system components (lights, fuse, stock connectors, etc.).

1. Turn off ignition.
2. Remove the seat and the fuel tank.

Injection section

3. Locate and disconnect the black 2 pin connectors of the injectors (**Fig.1**).

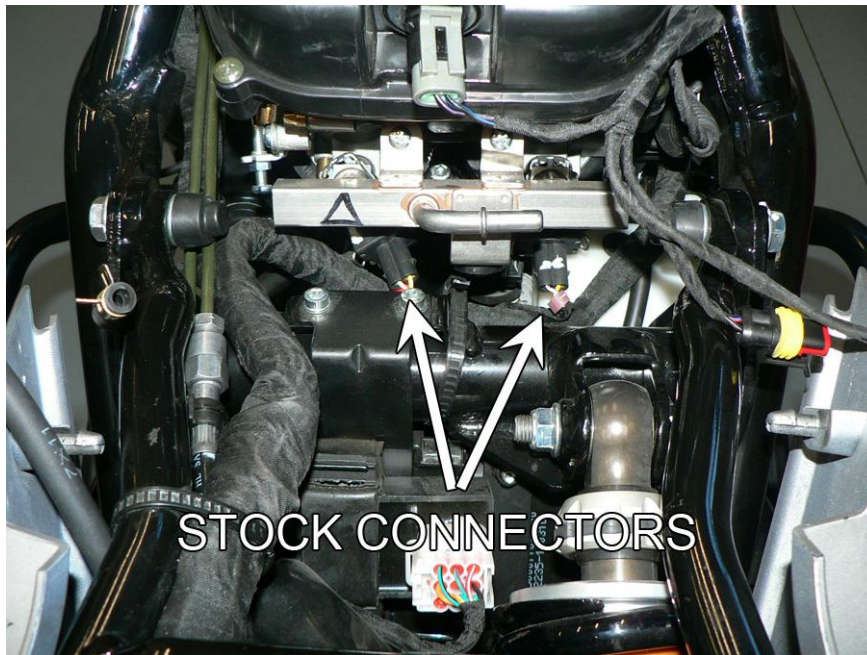


Fig.1

4. Connect the Rapid Bike connectors in-line with the stock wiring. Connectors marked as **INJECTOR 1** must be connected to the left hand side cylinder (**Fig.2**).

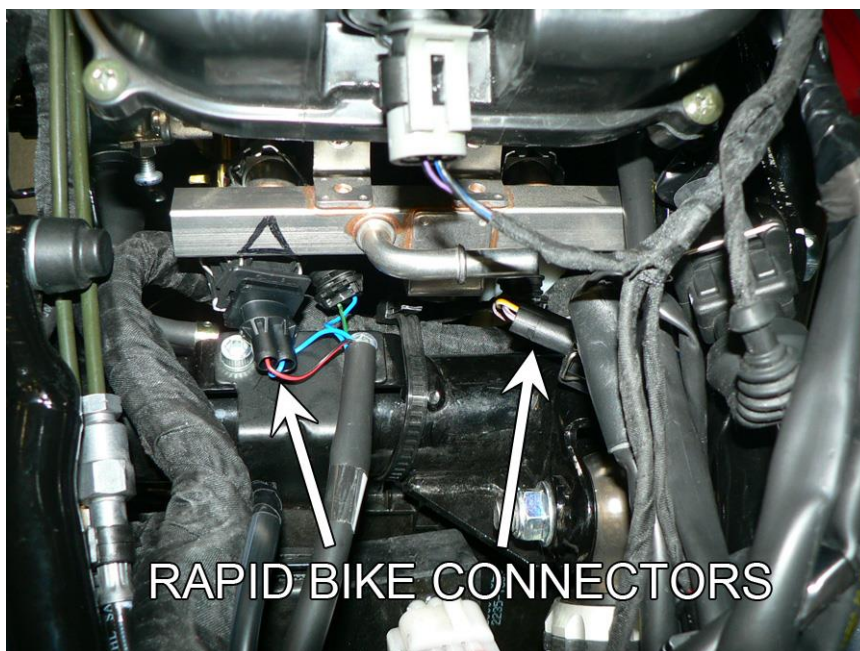


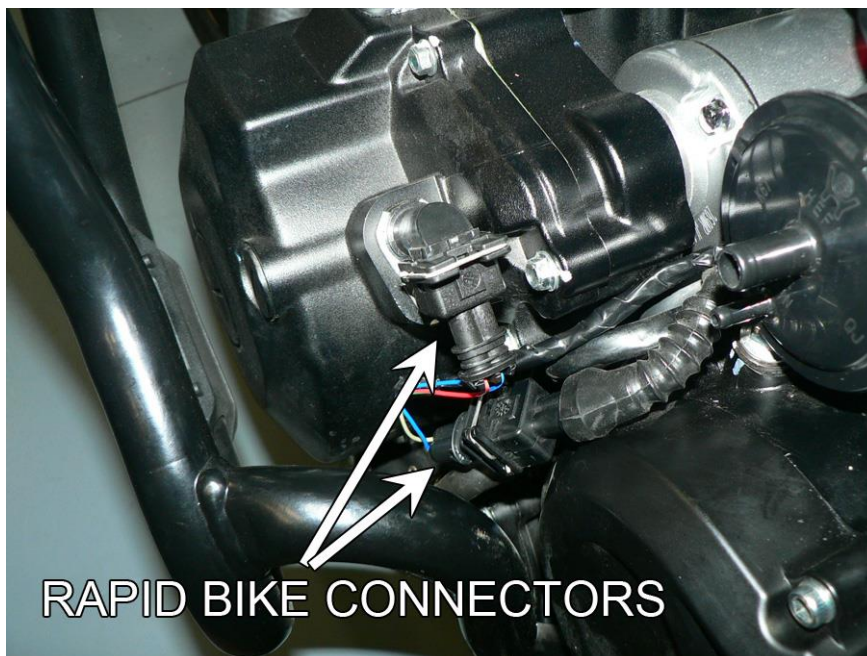
Fig.2

Crankshaft sensor section

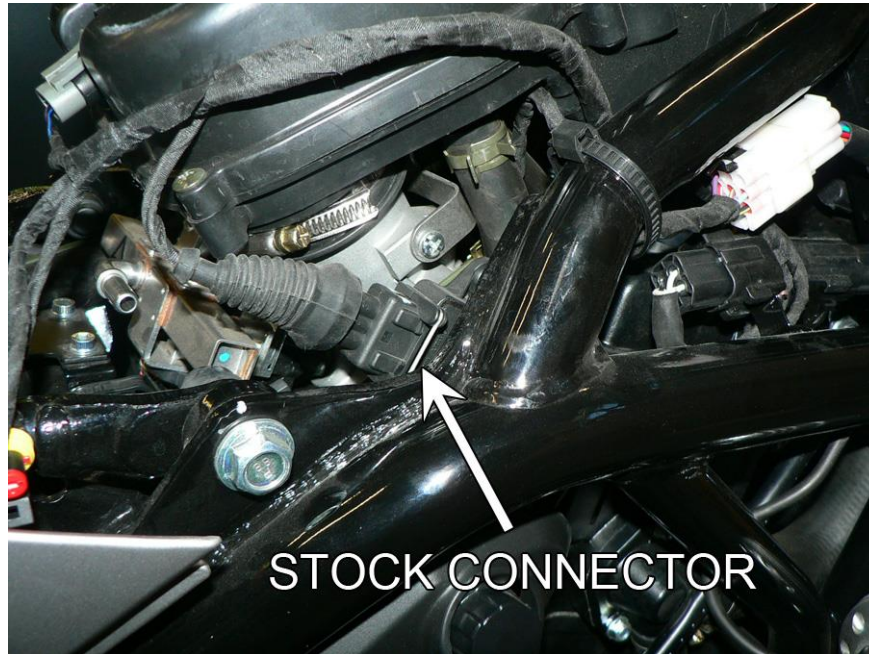
5. Locate and disconnect the black 2 pin connector on the left hand side of the bike (Fig.3).

**Fig.3**

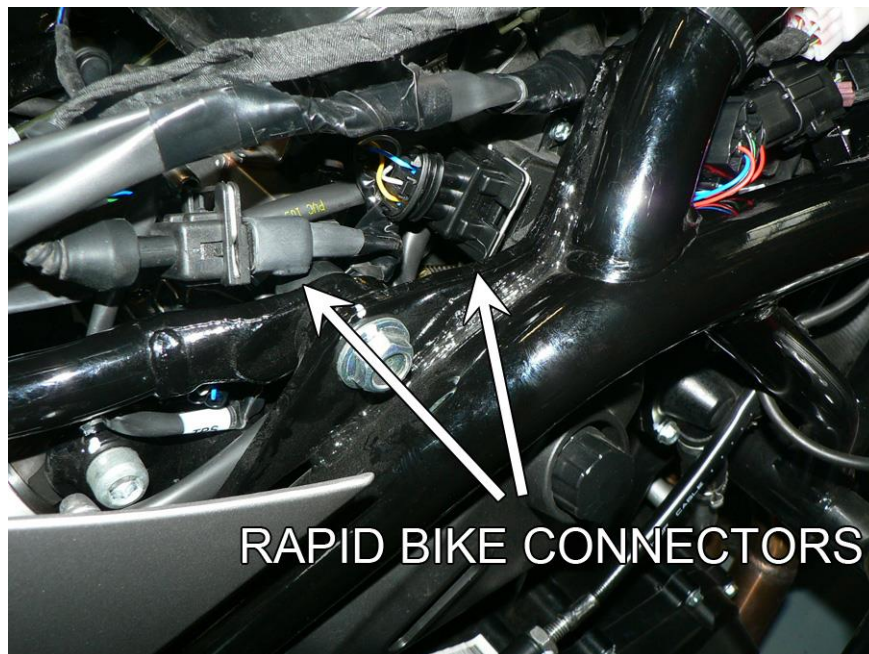
6. Connect the Rapid Bike connectors in-line with the stock wiring (Fig.4).

**Fig.4**

7. Locate and disconnect the black 3 pin connector on the right hand side of the bike (Fig.5).

**Fig.5**

8. Connect the Rapid Bike connectors in-line with the stock wiring (Fig.6).

**Fig.6**

9. Locate and disconnect the black 4 pin connectors on the right hand side (**Fig.7**).

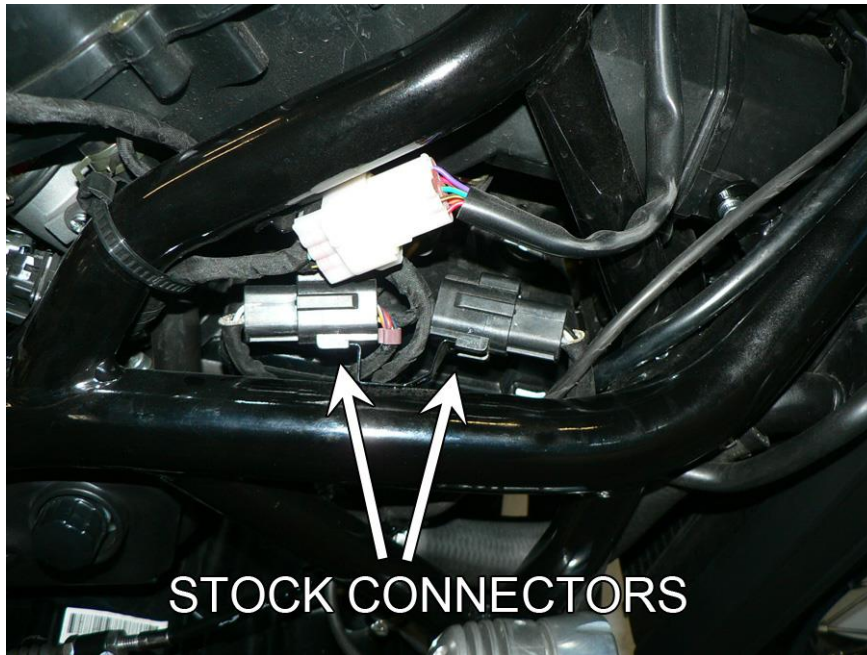


Fig.7

10. Connect the Rapid Bike connectors in-line with the stock wiring (**Fig.8**).
Rapid Bike connectors marked as **O2SENS1** must be connected to stock connectors marked as "2".
Rapid Bike connectors marked as **O2SENS2** must be connected to stock connectors marked as "1".

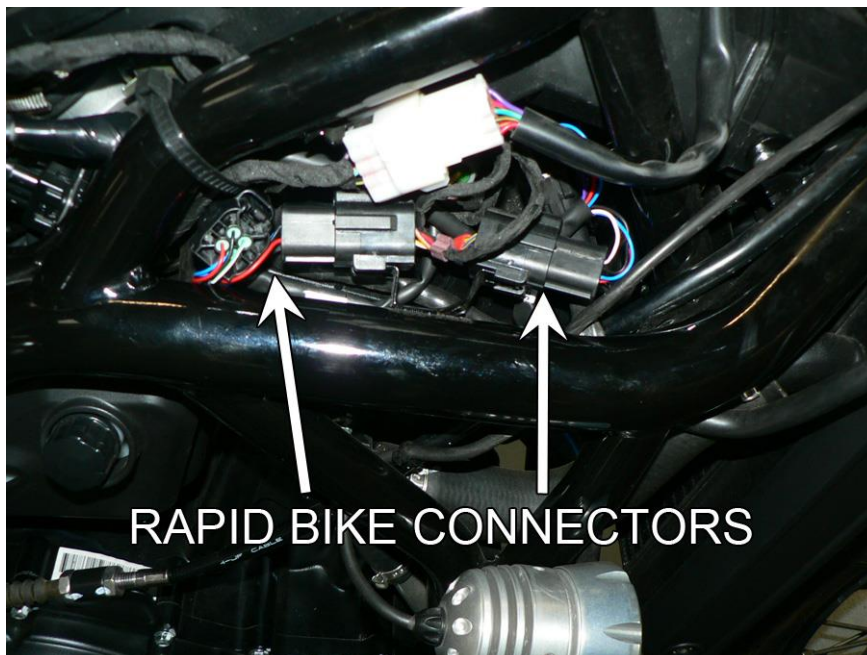


Fig.8

Feeding voltage section

11. Locate and disconnect the white 2 pin connector housed into a rubber boot and placed:
For Leoncino, under the seat (**Fig.9a**)
For TRK 502 under fuel tank (**Fig.9b**).

Follow the wiring coming out of the oil-pump rear brake switch. If there are problems, it is always possible connect the red RB wire to a switched 12v source of the rear brake stop light.

**Fig.9a****Fig.9b**

12. Connect the Rapid Bike connectors marked as **+12V SUPPLY** in-line with the stock wiring (**Fig.10**).

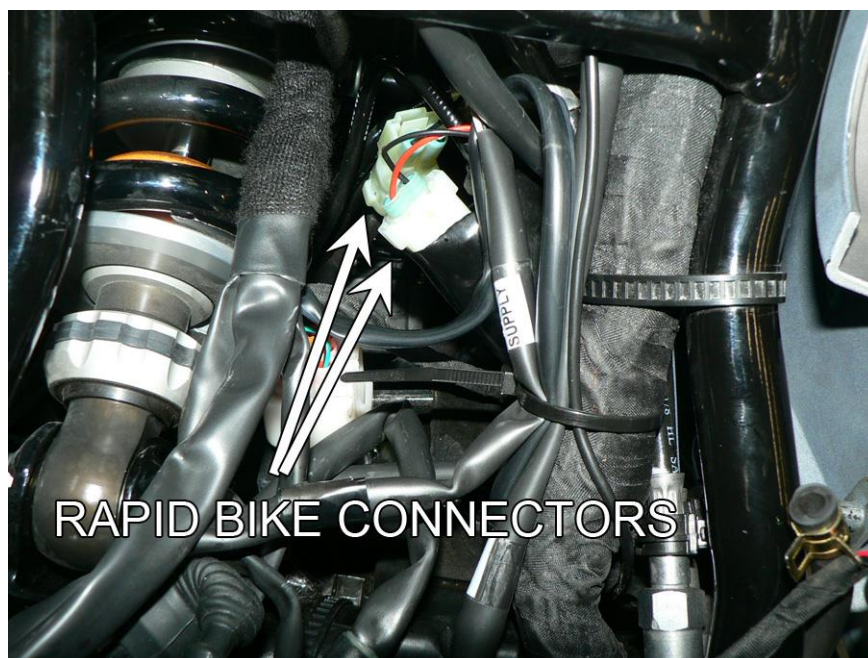


Fig.10

13. Connect the eyelet coming from the Rapid Bike wiring to the negative pole of the battery (**Fig.11**).



Fig.11

Final section

14. Connect the Rapid Bike module to the wiring harness.
15. Check the correct connection of all connectors.
16. Place the module under the seat (**Fig.12**).

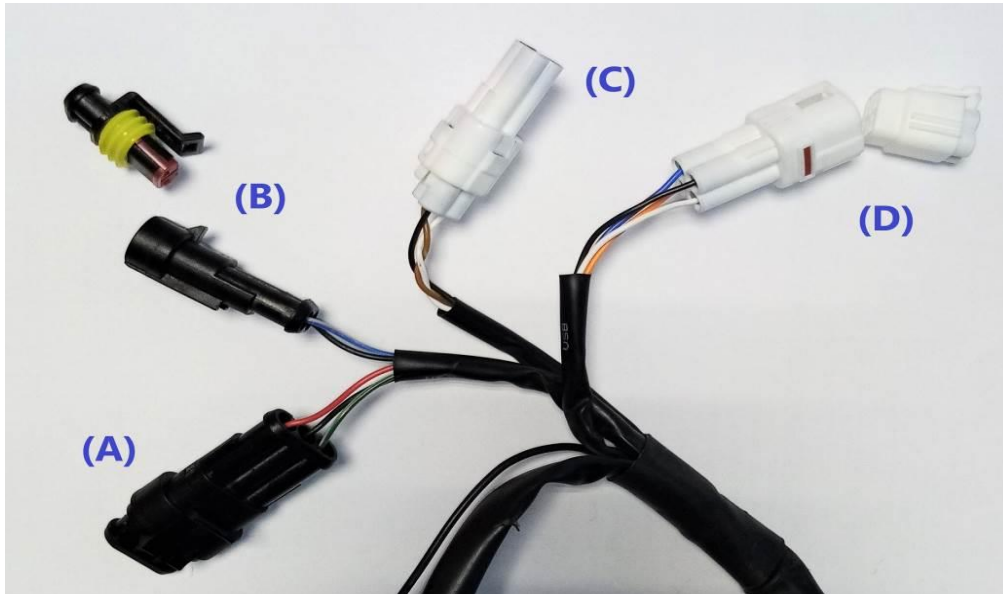
**Fig.12**

17. Place back the fuel tank and the seat.

Accessories section

The Rapid Bike wiring has four other connections for the accessories:

- A) Connection (aux. black 3 pins) for power supply and use of optional accessories such as quick shifter QS/Blipper, Pit-Lane limiter and You-Tune
- B) Connection for using the maps switch (aux. black 2 pins)
- C) CAN line connection (3 pins) for communication with optional modules (as MyTuning Bike)
- D) USB connection (white 4 pins) for PC connection or Bluetooth module



Warning: Connectors for accessories that are not being used should be end up with the matching provided caps.

Online features

Below are useful links for information and online help:

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

<https://reserved.dimsport.com/kb/Filemanager.aspx?id=1032>

www.dimsport.it



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