

RAPiD
BIKERACING

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Yamaha YZF R1 15-16
Yamaha YZF R1 M 15-16

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 the engine.
2. Remove the seat and the fuel tank.

Lower injectors section

3. Locate and disconnect the four grey 2 pin connector placed under the fuel tank (**Fig.1**).



Fig.1

4. Connect the Rapid Bike wiring in-line of the stock wiring and injectors (**Fig.2**). Follow this order: red/green wire – Injector one (first injector on the left)
white/black wire – Injector 2
blue wire – Injector 3
white wire – Injector 4
(last injector on the right)



Fig.2

Upper injectors section

5. Locate and disconnect the four grey connectors placed on top of the airbox (**Fig.3**).

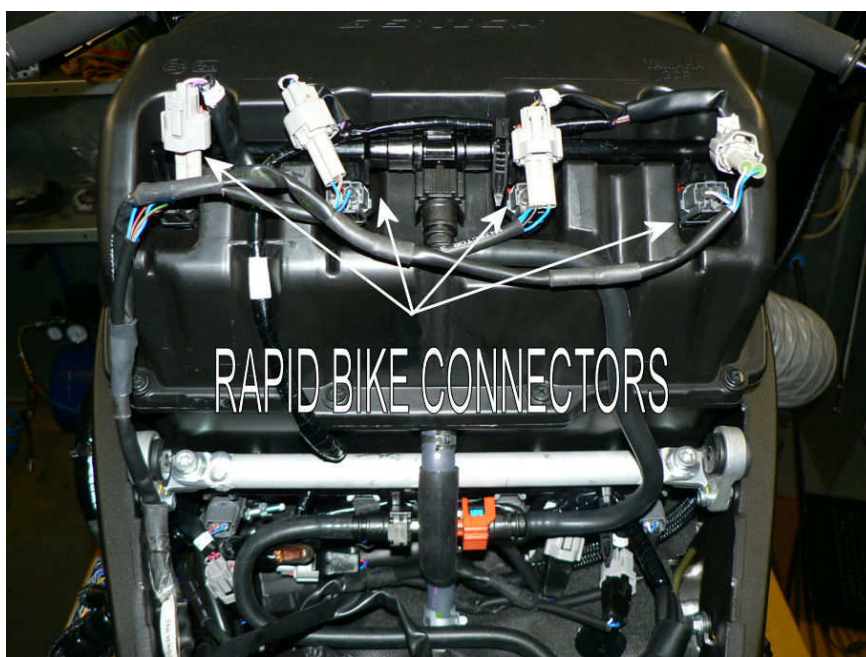


Fig.3

6. Unbolt left side of the big metallic rod (as shown in **Fig.2**) to help routing the stock harness of upper injectors down near lower injectors.
7. Connect the Rapid Bike male connectors to the stock connectors. Follow this order:
blue/red – Injector 5
yellow/red – Injector 6
grey/red – Injector 7
pink – Injector 8
8. Route Rapid Bike female connectors in place of stock connectors. Ensure the Rapid Bike harness follows the same route of stock harness in order to avoid interferences with the fuel tank.
9. Connect Rapid Bike female connectors to the stock injectors (**Fig.4**).

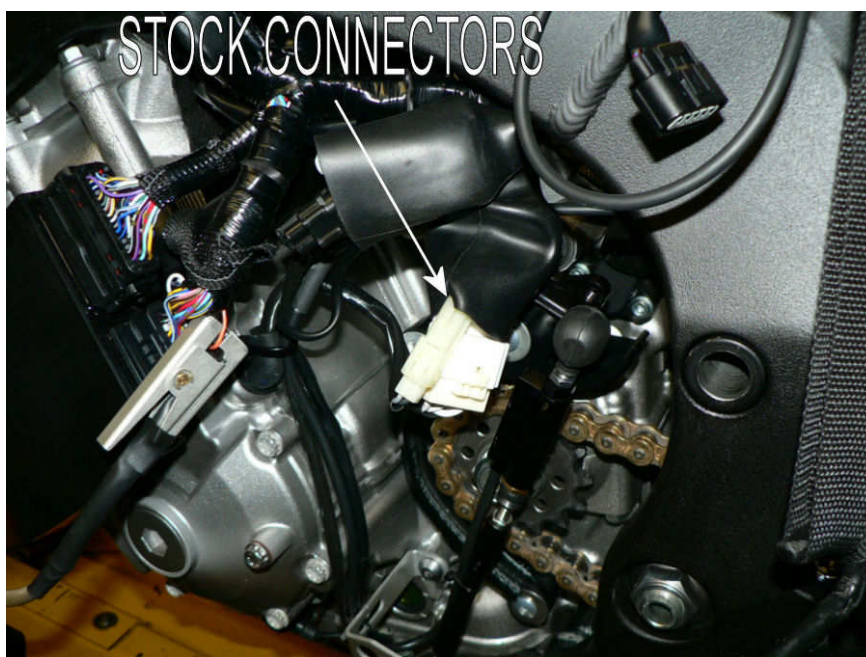
Picture shows both male and female Rapid Bike connectors in-line of stock harness and injectors, but Rapid Bike male connectors and stock female connectors must be placed closed to lower injector.

10. Bolt the big metallic rod back in place.

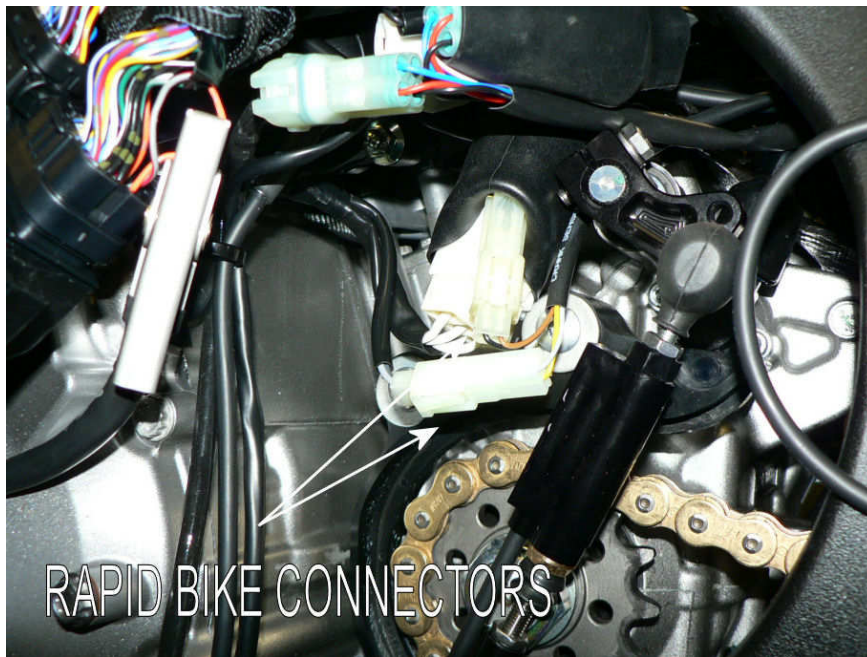
**Fig.4**

Crankshaft sensor section

11. Locate and disconnect the white 2 pin connectors placed into a rubber boot closed to OEM ECU (**Fig.5**).

**Fig.5**

12. Connect Rapid Bike connectors in-line of stock connectors (**Fig.6**).

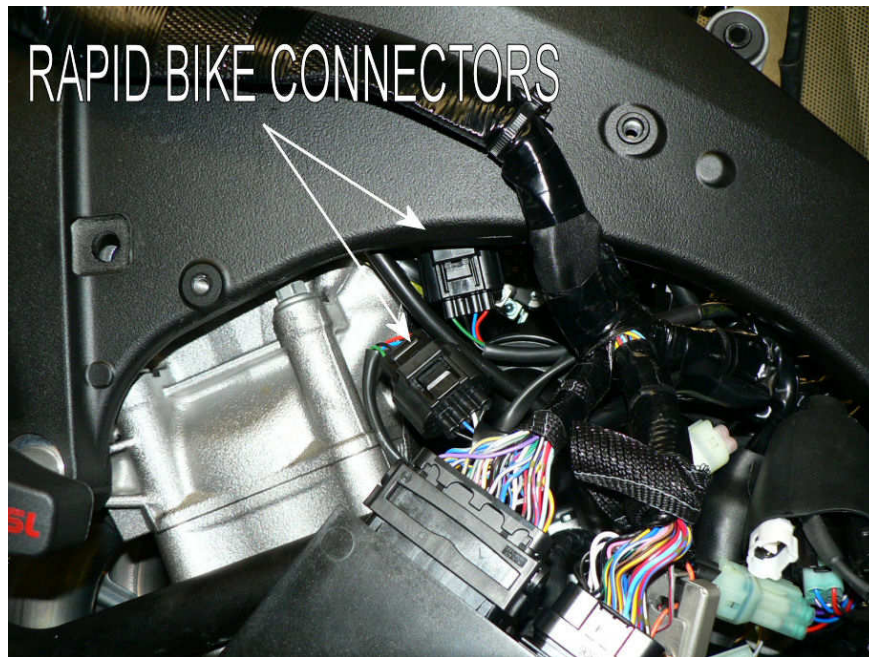
**Fig. 6**

T.P.S. section

13. Locate the black 4 pin connector placed behind OEM ECU (**Fig.7**).

**Fig.7**

14. Connect Rapid Bike connectors in-line of stock connectors (**Fig.8**).

**Fig.8**

Feeding voltage section

15. Locate and disconnect the white 2 pin connector placed under the fuel tank (**Fig.9**).

**Fig.9**

16. Connect the Rapid Bike connectors in-line of stock connectors (**Fig.10**).

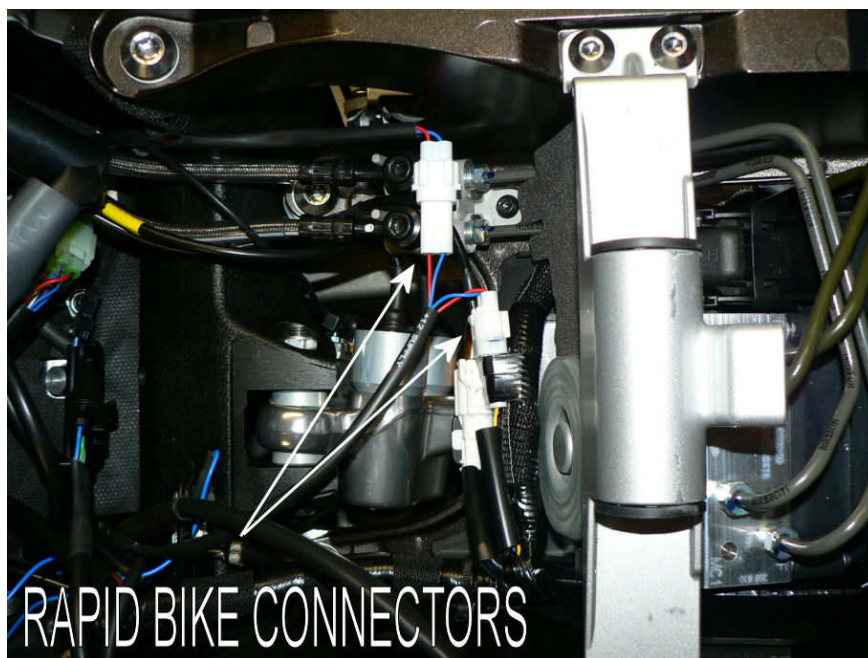
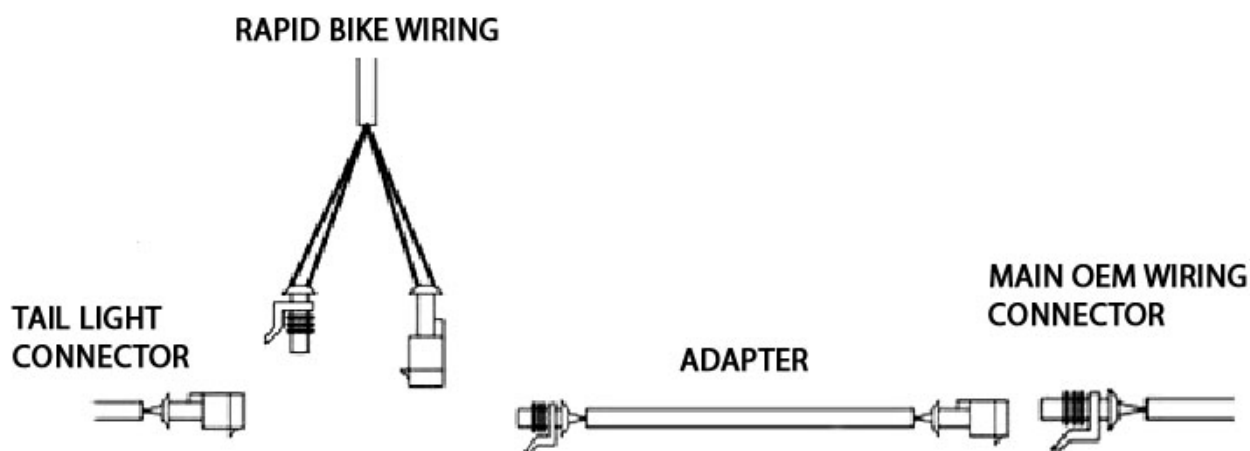


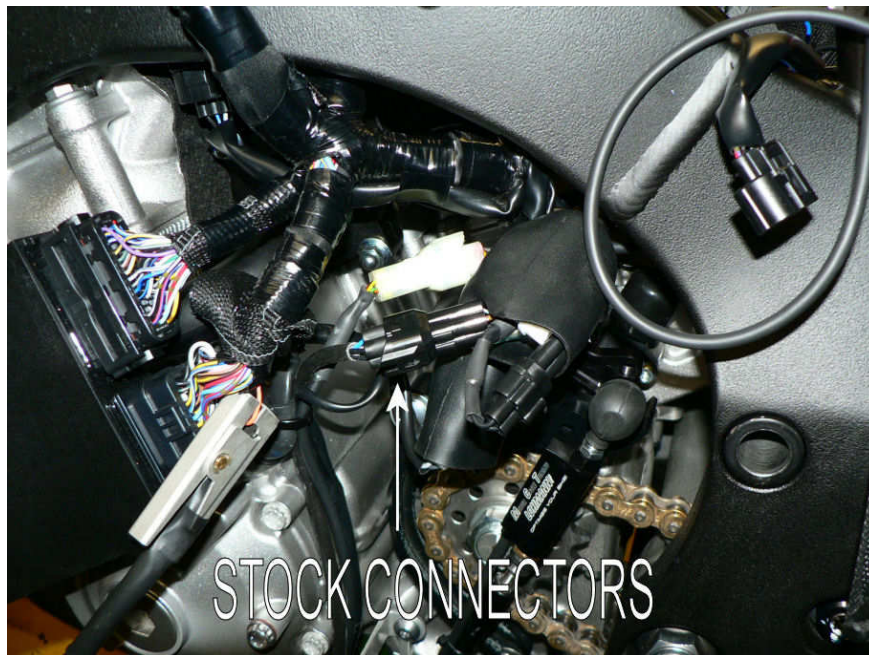
Fig.10

ATTENTION: On some bike the polarity of this connector is reversed compared to the Rapid Bike connectors. In this case install the little wiring adapter between the Rapid Bike wiring and the stock wiring (not on the rear light side).

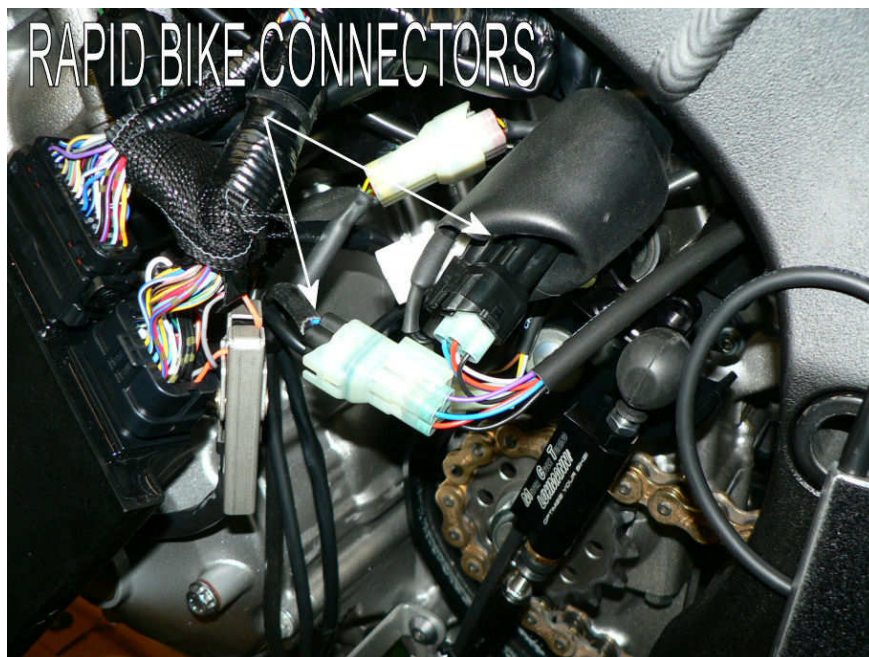


O2 sensor section

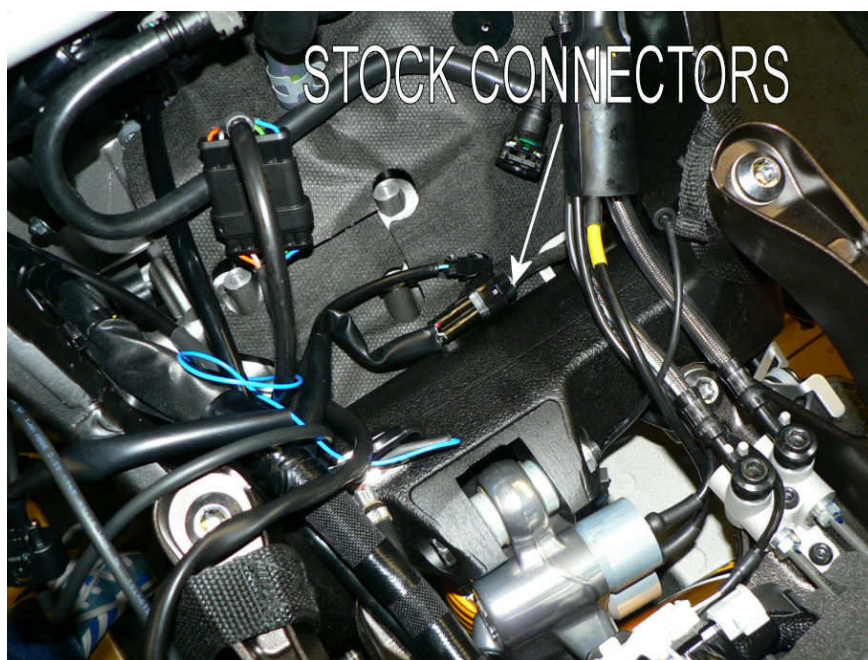
17. Locate and disconnect the black 4 pin connector placed into a rubber boot on the left side (Fig.11).

**Fig.11**

18. Connect the Rapid Bike connectors marked as **O2 SENSOR 1** in-line of stock connectors (**Fig.12**).

**Fig.12**

19. Locate and disconnect the black 4 pin connector placed under the fuel tank (**Fig.13**).

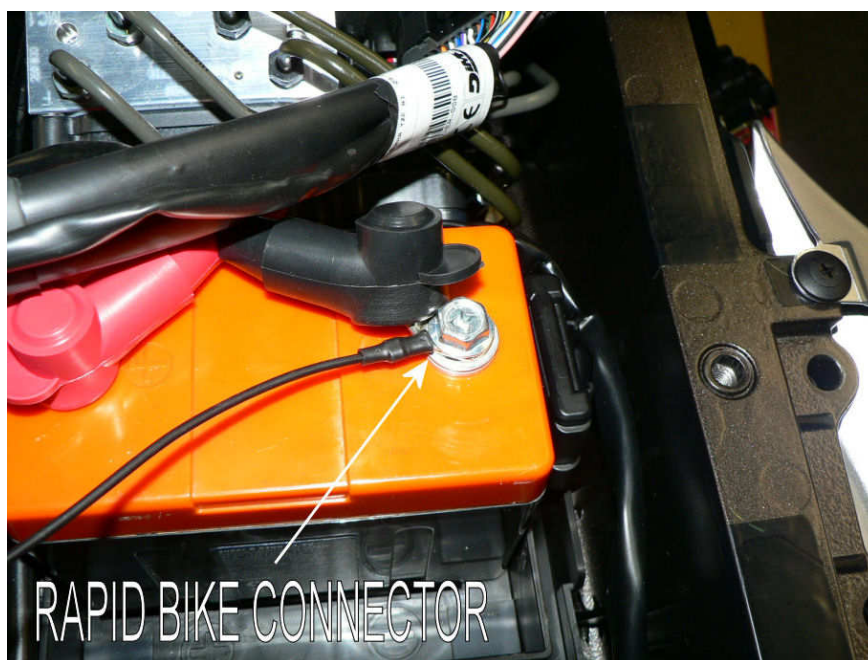
**Fig.13**

20. Connect the Rapid Bike connectors marked as **O2 SENSOR 2** in-line of the stock connectors (**Fig.14**).

**Fig.14**

Final section

21. Connect the eyelet of the Rapid Bike wiring to the negative side of the battery (**Fig.15**).

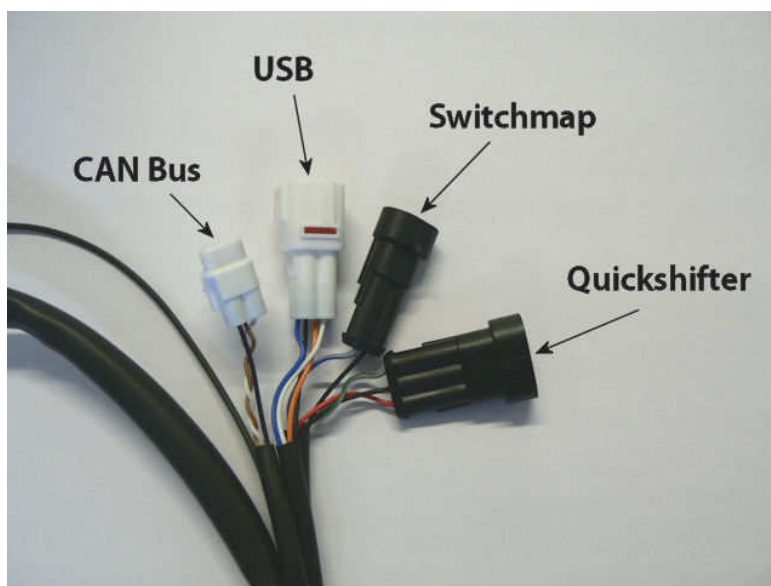
**Fig.15**

22. Connect the Rapid Bike module to the wiring harness.
23. Check the correct connection of all connectors.
24. Place the module in the tail section.
25. Place back the fuel tank and the seats.

Accessories section

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

- Connection for the quickshifter sensor (black 3 pin connector)
- Connection for the handlebar switchmap (black 2 pin connector)
- Connection for the CAN Bus interface (white 3 pin connector)
- Connection for the USB interface (white 4 pin connector)





Notes:

This image shows a full page of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page, providing a template for handwriting practice or general writing. There are no margins, text, or other markings on the page.

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