RAPiD BIKE RACING

RAPiD BIKE EVO

Ducati 1199 Panigale / S / R / Superleggera
Ducati 1299 Panigale / S
Ducati 899 Panigale
Ducati 959 Panigale

INSTALLATION INSTRUCTIONS

MOTORBIKES

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 seats.
3. Remove the lateral fairings.

_____ Injection – T.P.S. section _____

4. Route the wiring between the two cylinders in order to have the crankshaft sensor connectors and the main connector for the Rapid Bike module on the left side while the O2 sensors connectors and the round connectors of the injectors must be on the right side.

5. Locate and disconnect the round connector placed on the right side of the motorcycle (**Fig.1**).

Fig.1

STOCK CONNECTORS

6. Connect the RapidBike connectors in-line of the stock wiring (**Fig.2**).

WARNING: TO AVOID DAMAGES OF THE OEM CONNECTOR ON THE AIRBOX, PLEASE CONNECT THE RAPID BIKE HARNESS WITH AN ANGLE AS STRAIGHT AS POSSIBLE. REMOVING THE ABS BOX COVER WOULD HELP!

Fig.2

RAPID BIKE CONNECTORS

WARNING: Check carefully the connection of the injectors' connectors: while turning the sleeve you must hear the "click" when the connectors are fully engaged.

_____ **O2 Sensor – Feeding voltage section** _____

7. Locate and disconnect the 4 pin connector of the rear cylinder's O2 sensor. It is placed behind the stock ECU (**Fig.3**).

Fig.3

8. Connect the Rapid Bike connectors marked as **O2 SENSOR 2** in-line of the stock wiring (**Fig.4**).

Fig.4

9. Locate and disconnect the 4 pin connector of the front cylinder's O2 sensor. It is placed on the right side of the bike (**Fig.5**).

Fig.5

10. Connect the Rapid Bike connectors marked as **O2 SENSOR 1** in-line of the stock wiring (**Fig.6**).

Fig.6

WARNING: if the lambda management has been turned off in the stock ECU proceed as follows: 1) do not connect the Rapid Bike wiring to the stock lambda sensors.
2) Connect the red wire of the quick-shifter connection (see Accessories section) to a 12V under ignition using a posi-tap connector.

_____ **Crankshaft sensor section** _____

11. Bring the remaining wirings on the left of the engine, passing through the cylinders.
12. Locate and disconnect the 3 pin black connector placed in the bottom left side near the battery (**Fig.7**).

Fig.7

13. Connect the Rapid Bike connectors in-line of the stock wiring (**Fig.8**).

Fig.8

_____ **Final section** _____

14. Connect the eyelet of the Rapid Bike wiring to the negative side of the battery (**Fig.9**).

Fig.9

15. Fix the module in the bottom left side of the motorcycle (**Fig.10**).

Fig.10

16. Connect the RapidBike wiring to the RapidBike module.
17. Check the connection of all connectors.
18. Place back the lateral fairings.
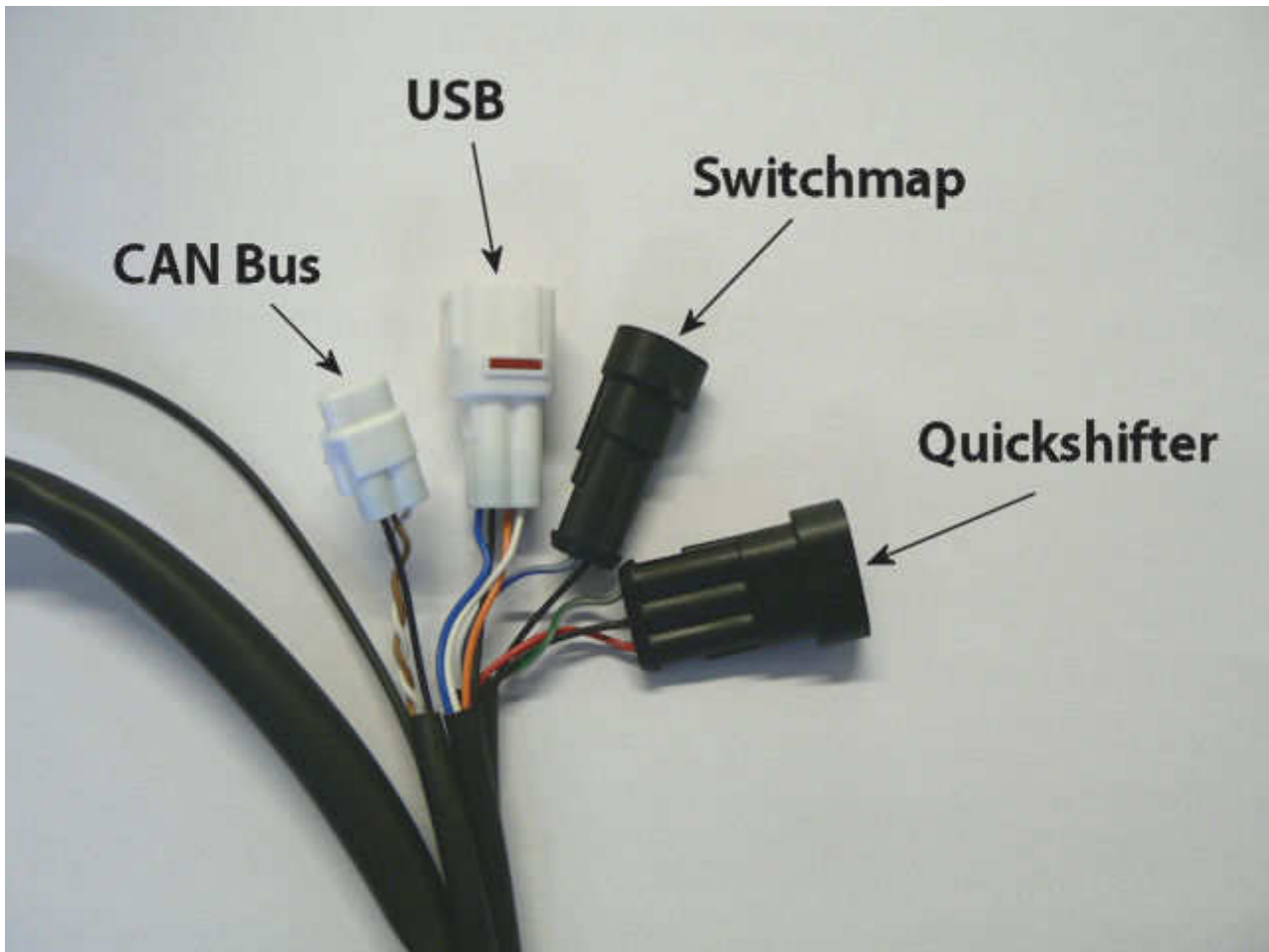19. Place back the seats.

_____ **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)

_____ **TECHNICAL NOTES** _____

Pay attention to the programming of the RapidBike module.

The proper map must be loaded in order to ensure the regular operating of the engine.

1) If the OEM ECU is the standard one, the programming of the RapidBike module displayed at the bottom of the software window must be the following:

Ducati 1199

2) If the OEM ECU is the Ducati Performance one ("Racing Evo" is shown on the dashboard when ignition is turned on), the programming of the RapidBike module displayed at the bottom of the software window must be the following:

Ducati 1199 ecu dp

3) If a new map is developed, keep in mind that the injection's values, in the cells highlighted in the following pictures, can't be higher than "5".

iniezione CIL1

RPM	0%	5%	10%	20%	40%	60%	80%	95%
1500	0	0	0	0	0	0	0	0
1800	5	5	5	1	0	0	0	0
2100	5	12	9	3	0	0	0	0
2400	7	11	11	5	0	0	0	0
2700	6	14	11	7	0	0	0	0
3000	6	16	16	6	2	0	0	0
3250	6	9	16	5	3	0	0	0
3500	6	11	5	4	2	0	0	0
3750	4	-1	2	1	1	0	0	0
4000	2	1	-1	-1	-1	0	0	0
4250	2	1	3	8	5	5	0	0
4500	2	0	7	9	5	5	0	0
4750	2	6	12	9	5	5	0	0
5000	2	18	13	10	5	5	0	0
5250	2	18	13	12	5	5	0	0
5500	2	20	15	15	5	5	0	0
5750	2	21	13	17	6	6	0	0
6000	2	22	9	14	7	7	0	0

iniezione CIL2

RPM	0%	5%	10%	20%	40%	60%	80%	95%
1500	0	0	0	0	0	0	0	0
1800	5	5	5	1	0	0	0	0
2100	5	12	9	3	0	0	0	0
2400	7	11	10	5	0	0	0	0
2700	6	9	10	6	0	0	0	0
3000	6	14	14	6	2	0	0	0
3250	6	14	17	5	3	0	0	0
3500	5	11	9	4	3	0	0	0
3750	4	8	4	2	2	0	0	0
4000	2	6	0	0	-1	0	0	0
4250	2	4	4	3	5	5	0	0
4500	2	4	4	7	5	5	0	0
4750	2	10	9	8	5	5	0	0
5000	2	16	14	10	5	5	0	0
5250	2	19	15	12	5	5	0	0
5500	2	20	16	16	5	5	0	0
5750	2	22	16	18	6	6	0	0
6000	2	22	15	15	7	7	0	0

An engine error will appear on the dashboard if values higher than "5" will be written in the map.