



Ducati Scrambler

INSTALLATION INSTRUCTIONS



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

1. Turn off the engine.
2. Remove the seat.
3. Remove the fuel tank.

Before disconnecting fuel hoses, relieve pressure from the system as follows:

1. *Lift and support fuel tank.*
2. *Disconnect fuel pump connector.*
3. *Start engine and let it idle until engine stalls.*

*To unplug fuel hoses (indicated in **Fig.1**), push the connector inside the fuel pump and then pull it out with its plastic retainer.*



Fig.1

4. Remove the plastic covers on left and right side under the fuel tank.
5. Remove the battery to help routing Rapid Bike harness.

Crankshaft sensor section

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

**Fig.2**

7. Connect the Rapid Bike connectors in-line of the stock connectors (**Fig.3**).

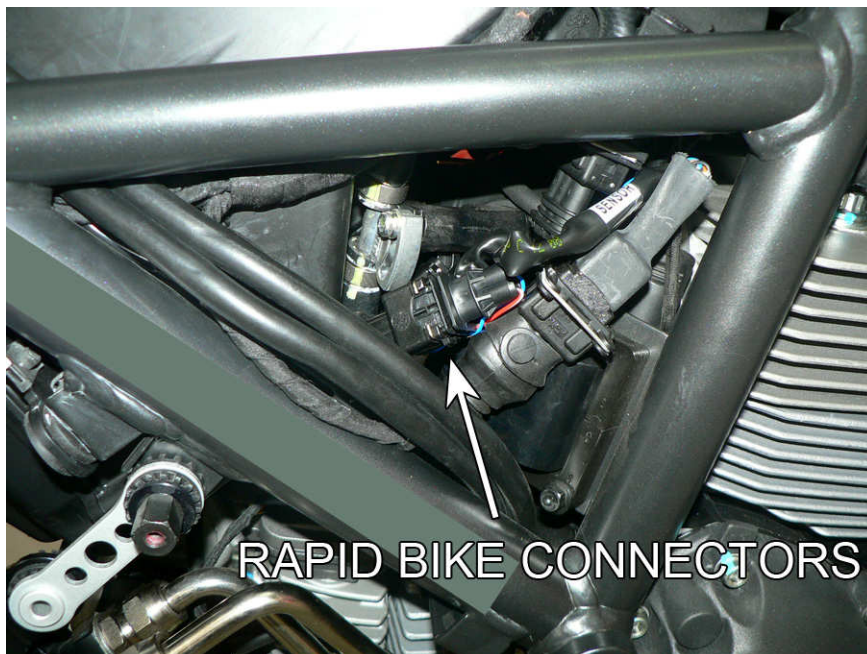
**Fig.3**

Injection section (Rear cylinder)

8. Locate and disconnect the black 2 pin connector of the rear cylinder's injector placed on the left hand side close to crankshaft sensor connector (**Fig.4**).

**Fig.4**

9. Connect the Rapid Bike connectors marked as **INJECTOR 2** in-line of the injector and the stock wiring harness (**Fig.5**).

**Fig.5**

Injection section (Front cylinder)

10. Remove the Secondary Air System valve (**Fig.6**).

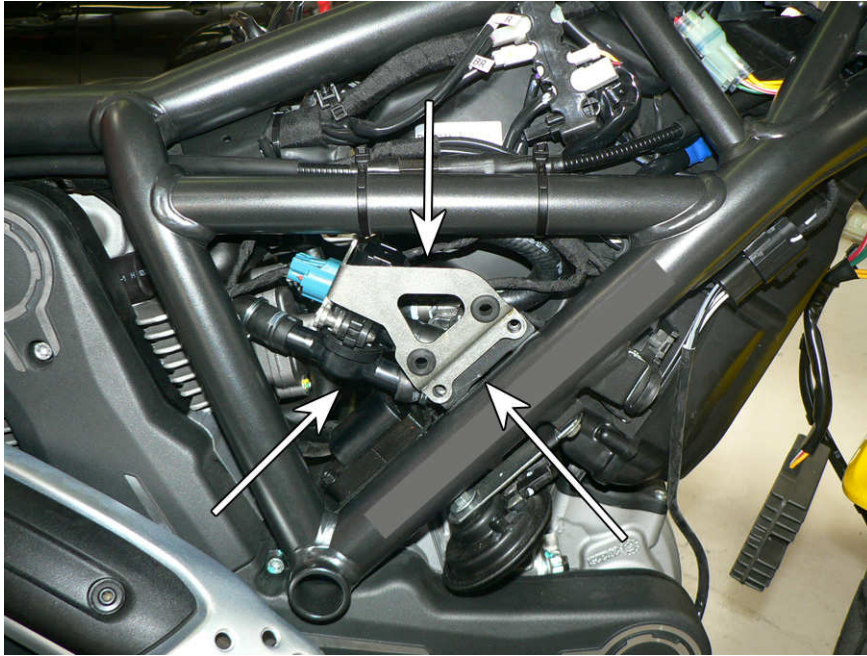


Fig.6

11. Locate and disconnect the black 2 pin connector of the front cylinder's injector (**Fig.7**).



Fig.7

12. Connect the Rapid Bike connectors marked as **INJECTOR 1** in-line of the injector and the stock wiring harness (**Fig.8**).

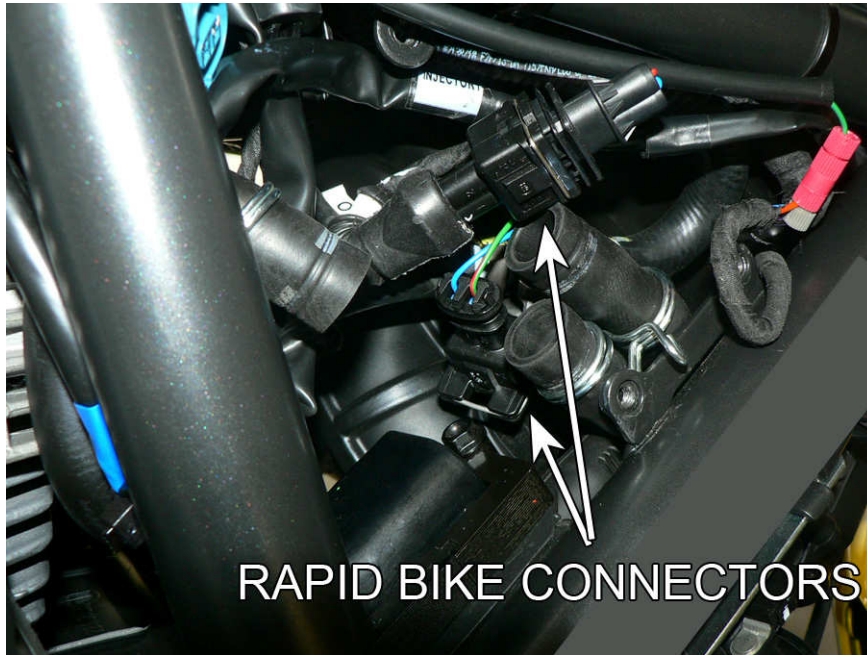


Fig.8

WARNING: the valve removed at point 10 can damage the wiring when reinstalled, causing a short circuit. For this matter wiring has to be routed down from the connector and the injector clocked a little forward to prevent contact with the valve.

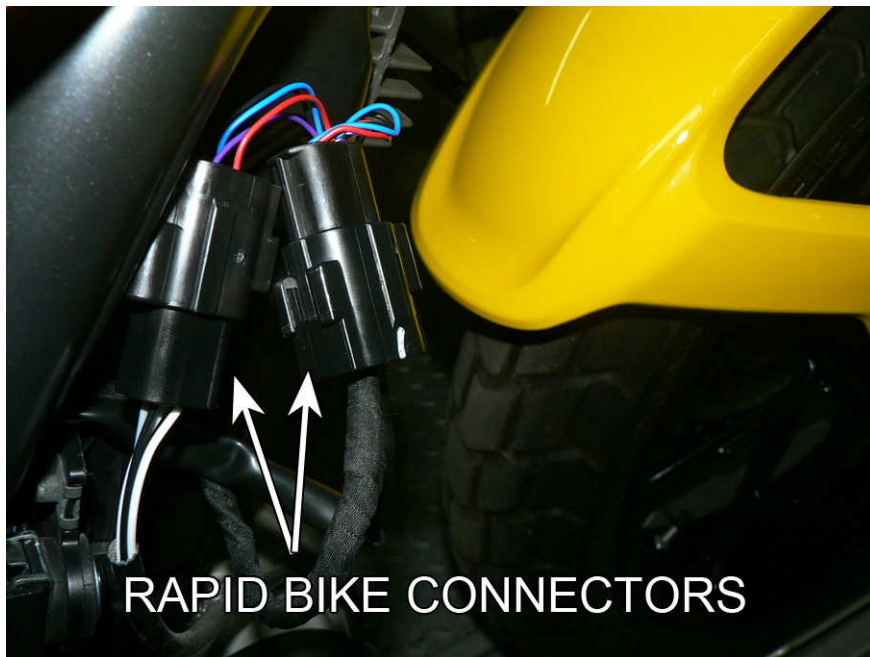
O2 sensor section (Front cylinder)

13. Locate and disconnect the black 4 pin connector of the front cylinder's O2 sensor, placed in the front right side of the bike (**Fig.9**).



Fig.9

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

**Fig.10**

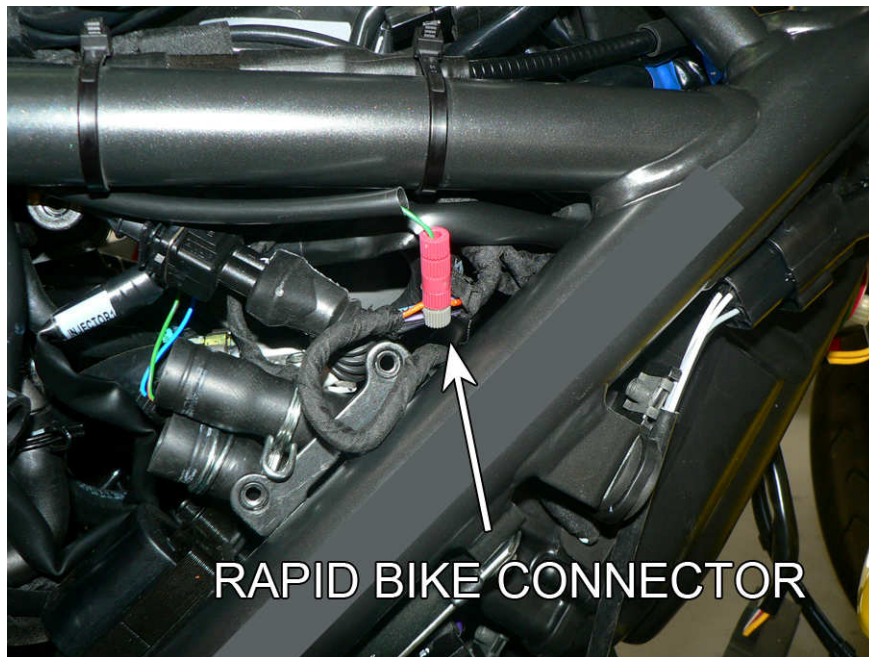
T.P.S. section

15. Locate the wiring harness coming out from the right hand side of the airbox (**Fig.11**)

**Fig.11**

16. Follow the wiring near the front cylinder's injector; cut a little piece of tape to expose wires and locate the orange wire.

Connect the green wire of the Rapid Bike wiring harness to the orange wire using the provided posi-tap connector (**Fig.12**).

**Fig.12**

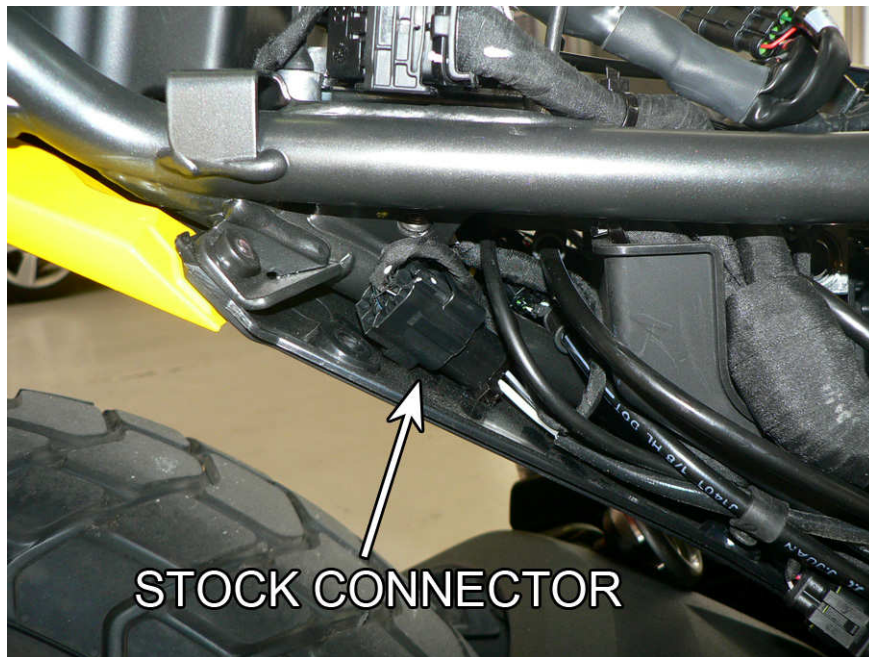
17. Reinstall the Secondary Air System valve.

O2 sensor section (Rear cylinder)

18. Remove the cover under the seat on the right hand side (**Fig.13**).

**Fig.13**

19. Locate and disconnect the black 4 pin connector of the rear cylinder's O2 sensor (**Fig.14**).

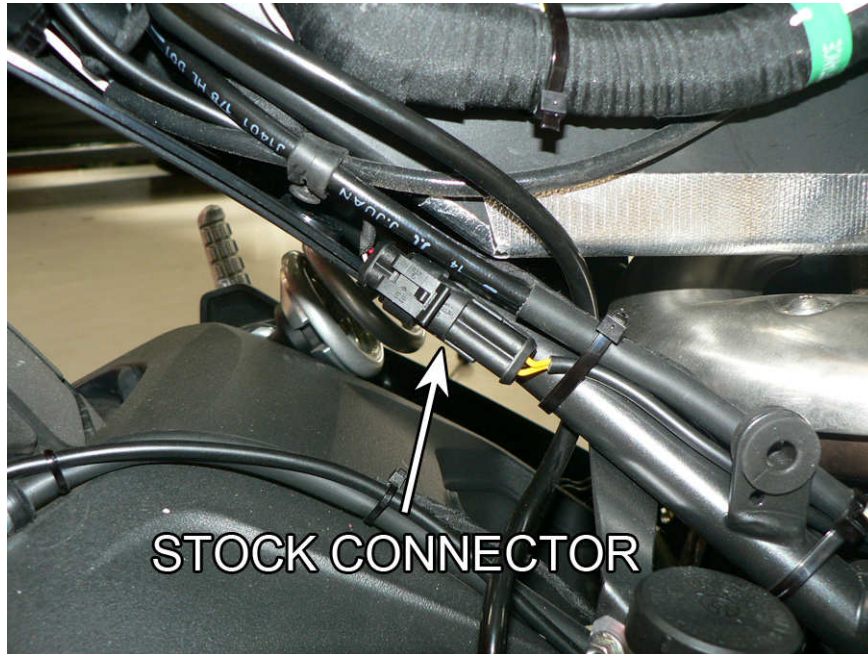
**Fig.14**

20. Connect the Rapid Bike connectors marked as **O2 SENSOR 2** in-line of the stock connectors (**Fig.15**).

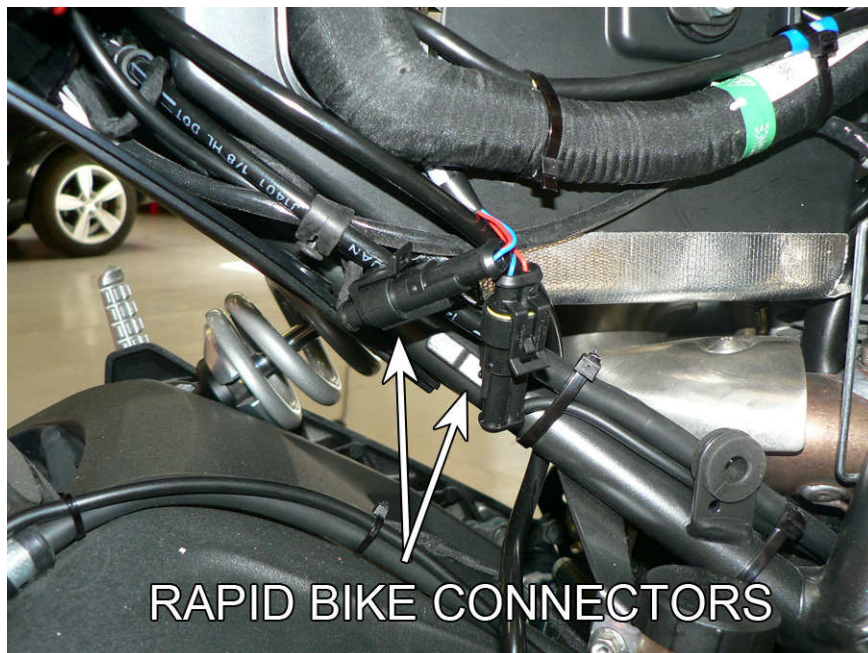
**Fig.15**

Feeding voltage section

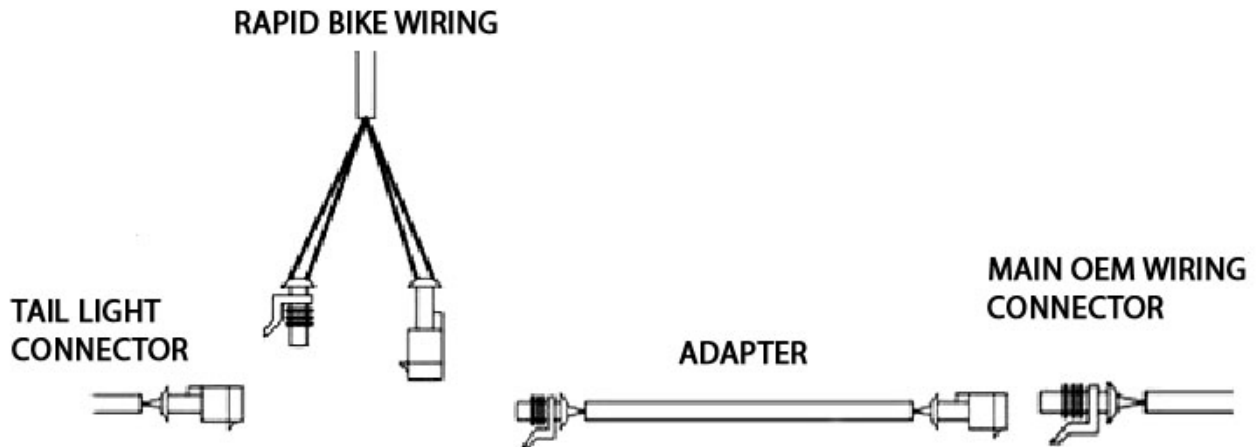
21. Locate and disconnect the black 2 pin connector of the rear brake light switch, placed on the right hand side behind the cover previously removed (**Fig.16**).

**Fig.16**

22. Connect the Rapid Bike connectors in-line of the stock connectors (**Fig.17**).

**Fig.17**

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).



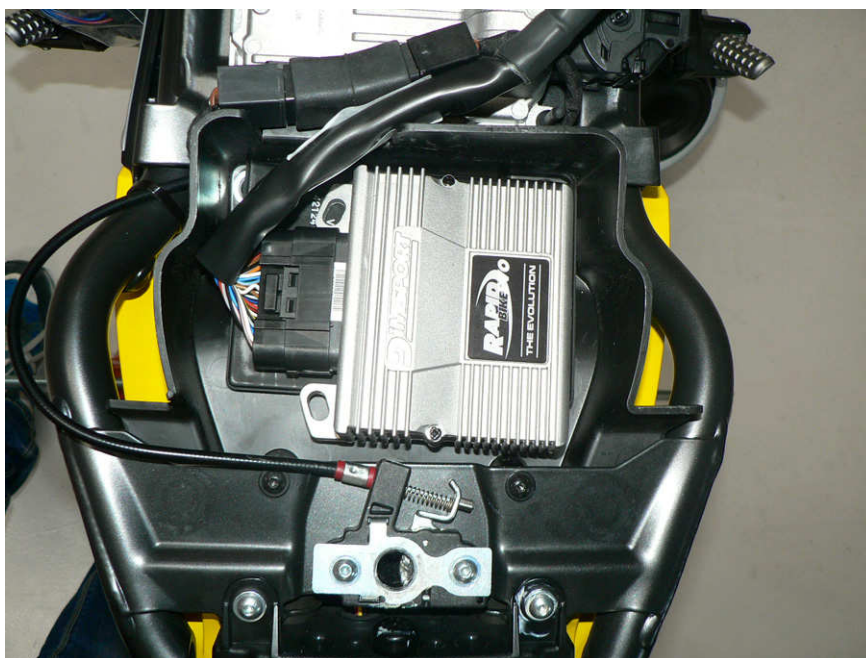
23. Reinstall the battery and connect the eyelet of the Rapid Bike wiring harness to the negative side (**Fig.18**).



Fig.18

Final section

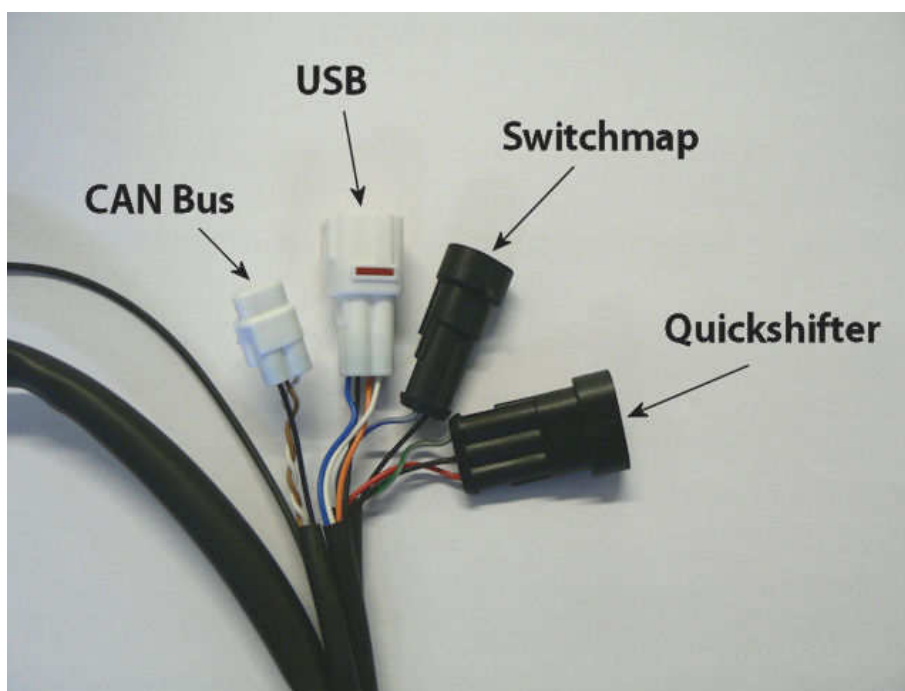
24. Check the correct connection of all connectors.
25. Connect the Rapid Bike module to the wiring harness.
26. Place the module in the glove compartment (**Fig.19**).
27. Place back the fuel tank, the covers and the seat.

**Fig.19**

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)



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Dimsport Srl

*Zona Industriale Madonnina - Loc. San Iorio
15020 SERRALUNGA DI CREA (AL) - ITALY
T (+39) 0142.9552 F (+39) 0142.940094
www.dimsport.it*

RapidBike

ASSISTENZA TECNICA – TECHNICAL SUPPORT

*Tel. (+39) 0142.9552
E-mail: support.rapidbike@dimsport.it*

UFFICIO COMMERCIALE – COMMERCIAL DEPT.

*Tel. (+39) 0142.9552
E-mail: info.rapidbike@dimsport.it*



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