

**ECU**  
REMAPPING

CARS/TRUCKS/TRACTORS  
**MODULES**

**MOTORBIKES**  
**MODULES**

POWER BENCH  
**TESTERS**



**RAPID**  
**BIKE**

**SMART**

**INSTALLING INSTRUCTIONS**

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## Applicability

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Make: **BMW**

Model:	<b>R 1250 GS e4 and e5</b>	<b>19-&gt;23</b>
	<b>R 1250 GS Adventure</b>	<b>19-&gt;23</b>
	<b>R 1250 R</b>	<b>19-&gt;24</b>
	<b>R 1250 RS</b>	<b>19-&gt;24</b>
	<b>R 1250 RT</b>	<b>19-&gt;24</b>

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## Component view and item ID

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Wiring code: **F27-SMR-001A**

Module code: **F27RBSMART**



1. Turn ignition off.
2. Put the bike on the centre stand.
3. Remove the black plastic lid on the right side.



4. Unfasten the ODB port.



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**Front Right O2 sensor - LW2**

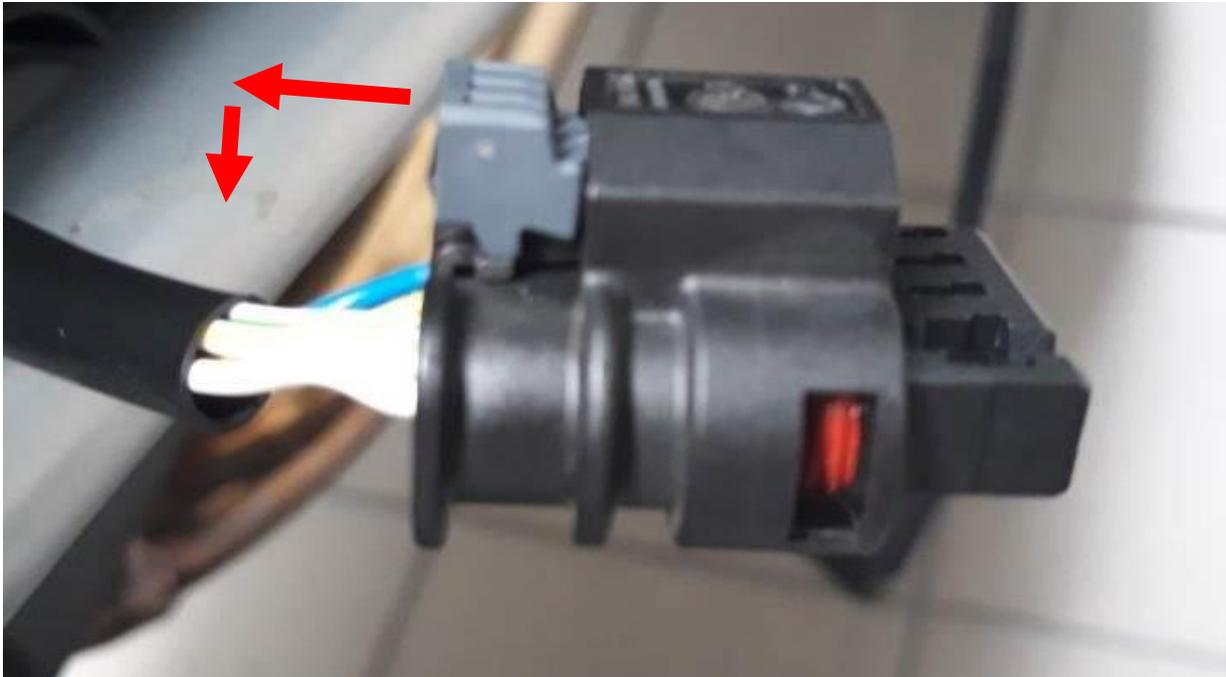
5. Locate the connectors of the right cylinder's Lambda sensor placed near the rear brake pedal.



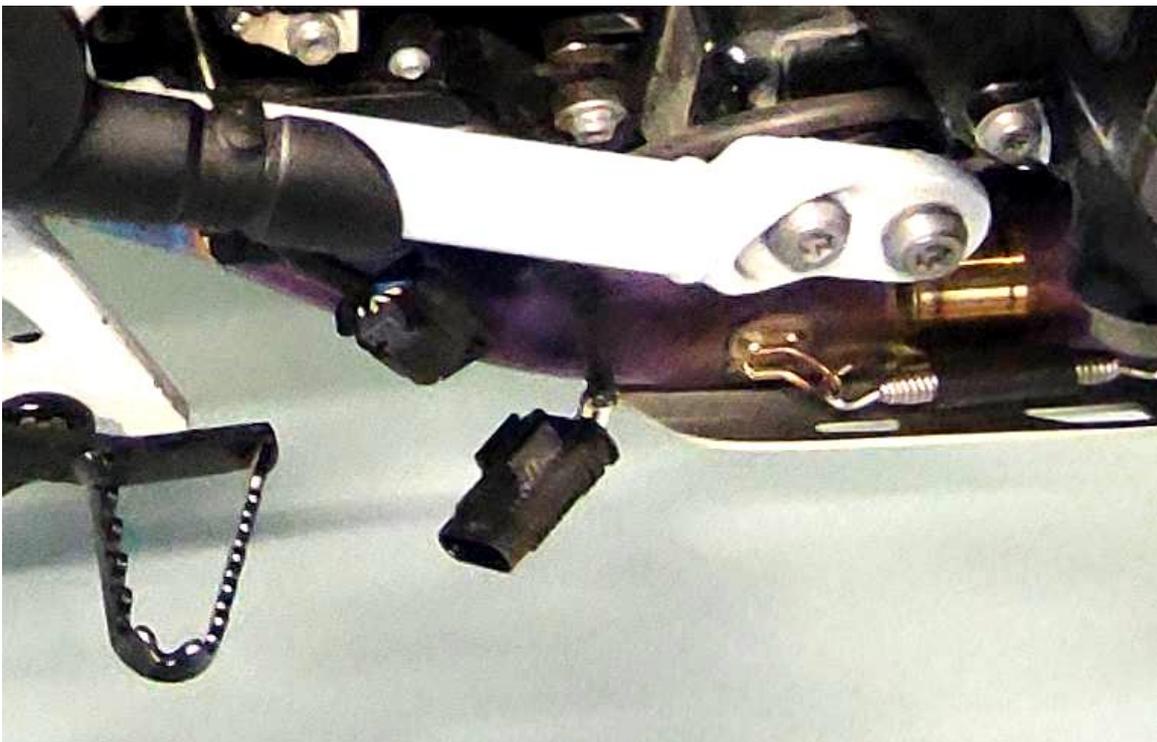
6. Use a flat tool to gently pull away the plastic hook and unfasten the connectors from the frame.



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7. Pull out and then push down the grey tab to disconnect the connectors.



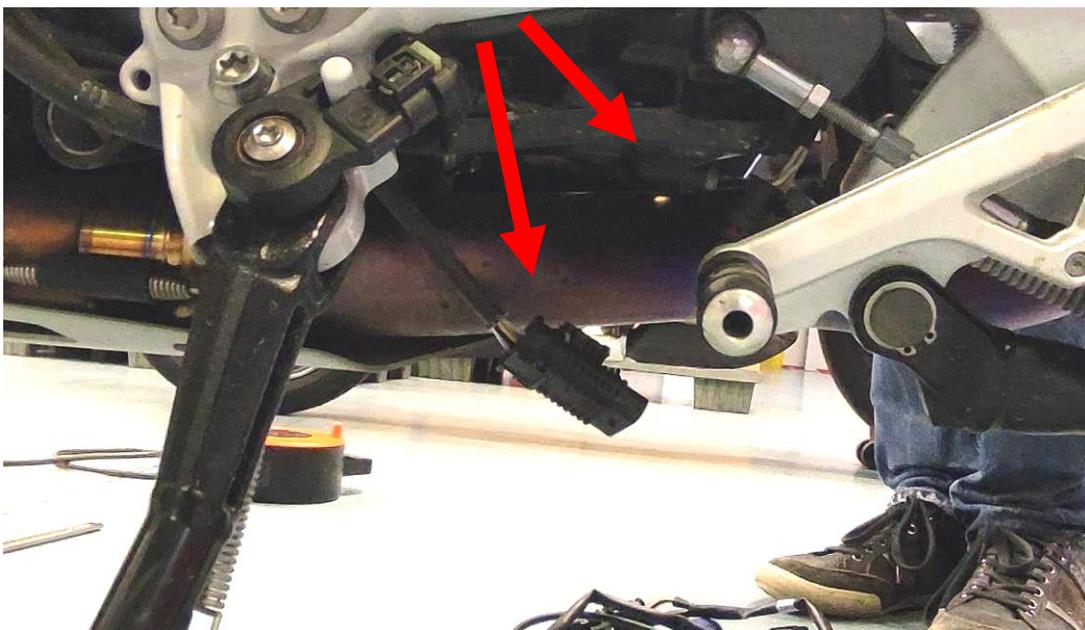
8. Plug the connectors marked as **LW2** in-line with the stock wiring and fasten them to the frame using zip ties.





### Front left O2 Sensor - LW1

9. Locate and disconnect the connectors of the left cylinder's Lambda sensor placed near the gear lever.
10. Route the connectors marked as **LW1** between the bottom of the battery and the starter.



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11. Plug the connectors marked as **LW1** in-line with the stock wiring and fasten them to the frame using zip ties.

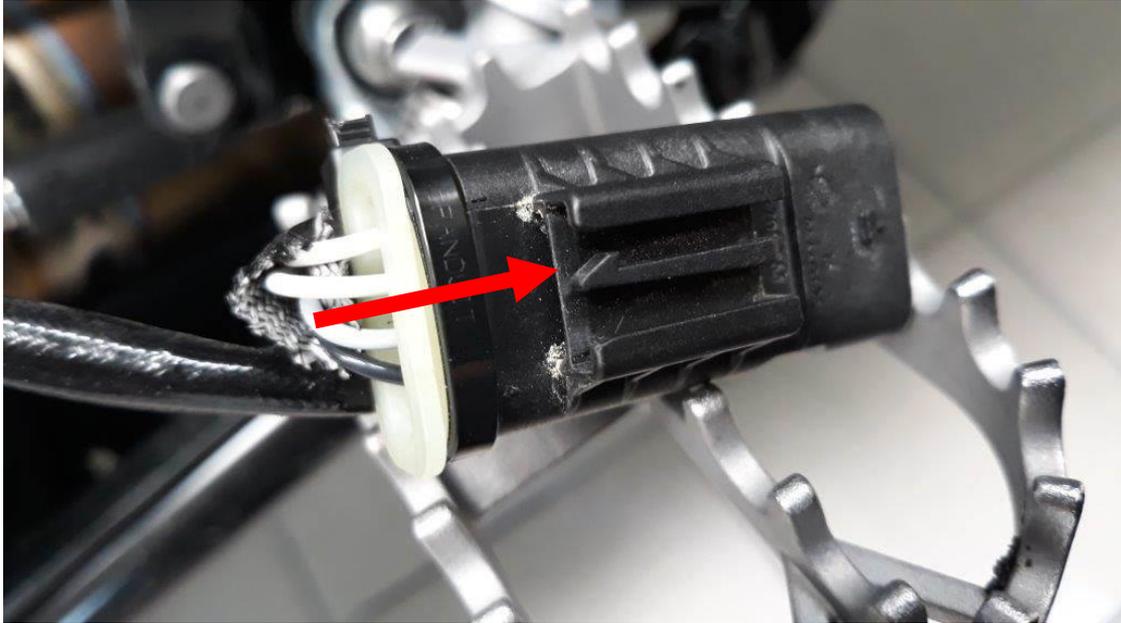


#### Central rear O2 Sensor - LN1

12. Locate and disconnect the connectors of the post catalytic converter Lambda sensor placed under the battery. They are reachable from the right side of the bike.



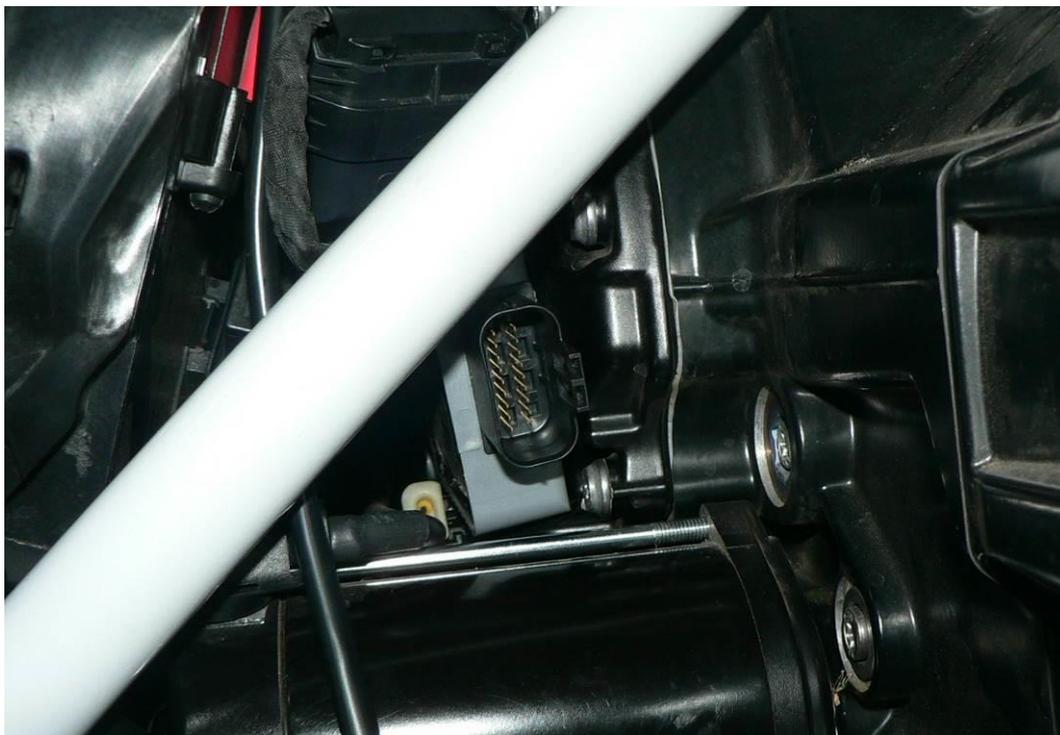
- a. Using a flat tool to gently pull away the plastic hook and unfasten the connectors from the frame may help unplugging the connectors.



13. Plug the connectors marked as **LN1** in-line with the stock wiring.



14. Place the SMART unit near the starter, inserting it with the label facing toward the outside of the bike and then flip it upside-down to have the SMART label facing toward the engine.

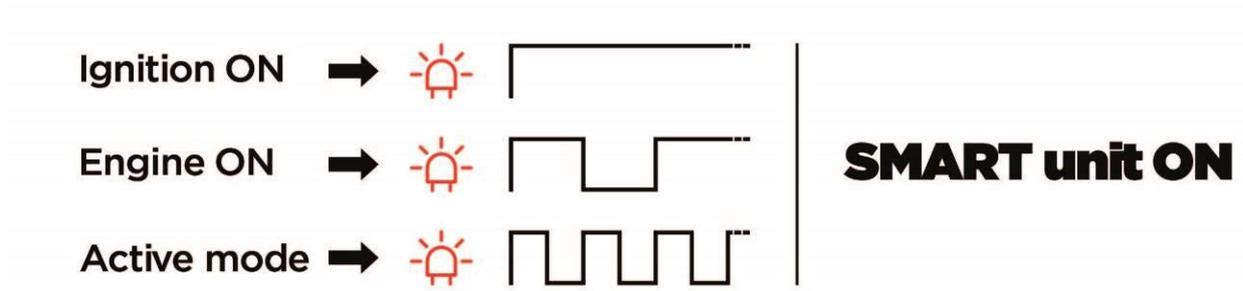


15. Connect the wiring harness to the SMART unit.



16. Connect the OBD port in to OBD Smart connector.

17. Check the installation with the red LED placed on the back of SMART unit.



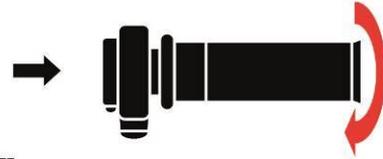
18. Fasten the wiring harness to the frame using zip ties.



19. Ensure the wiring harness is properly fastened, then re-install the black plastic lid and the rider's seat.

Rapid Bike SMART is programmed to be ON by default as described in previous point. The following procedure shows how to turn SMART unit OFF, allowing the bike to run in stock configuration, and how to turn it ON again:

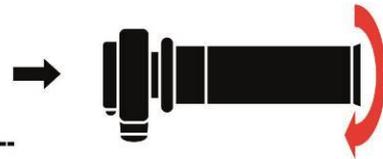
Turn ignition on and open throttle completely 5 times within 10 seconds



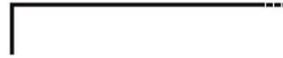
**SMART unit OFF**



Repeat the operation to turn SMART unit ON

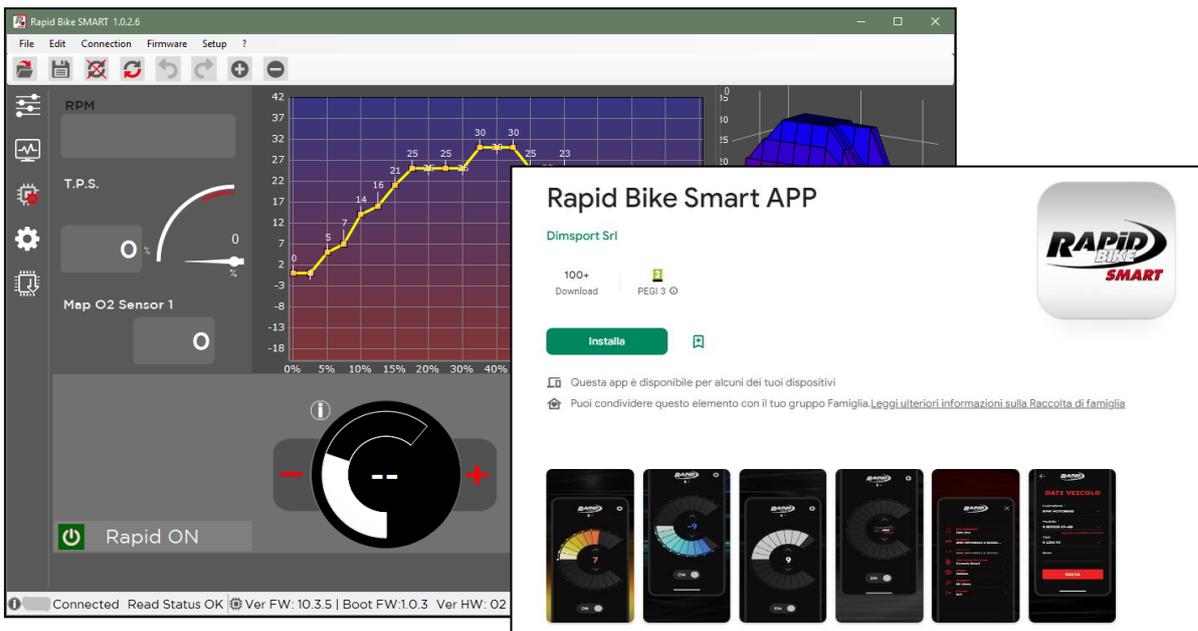


**SMART unit ON**

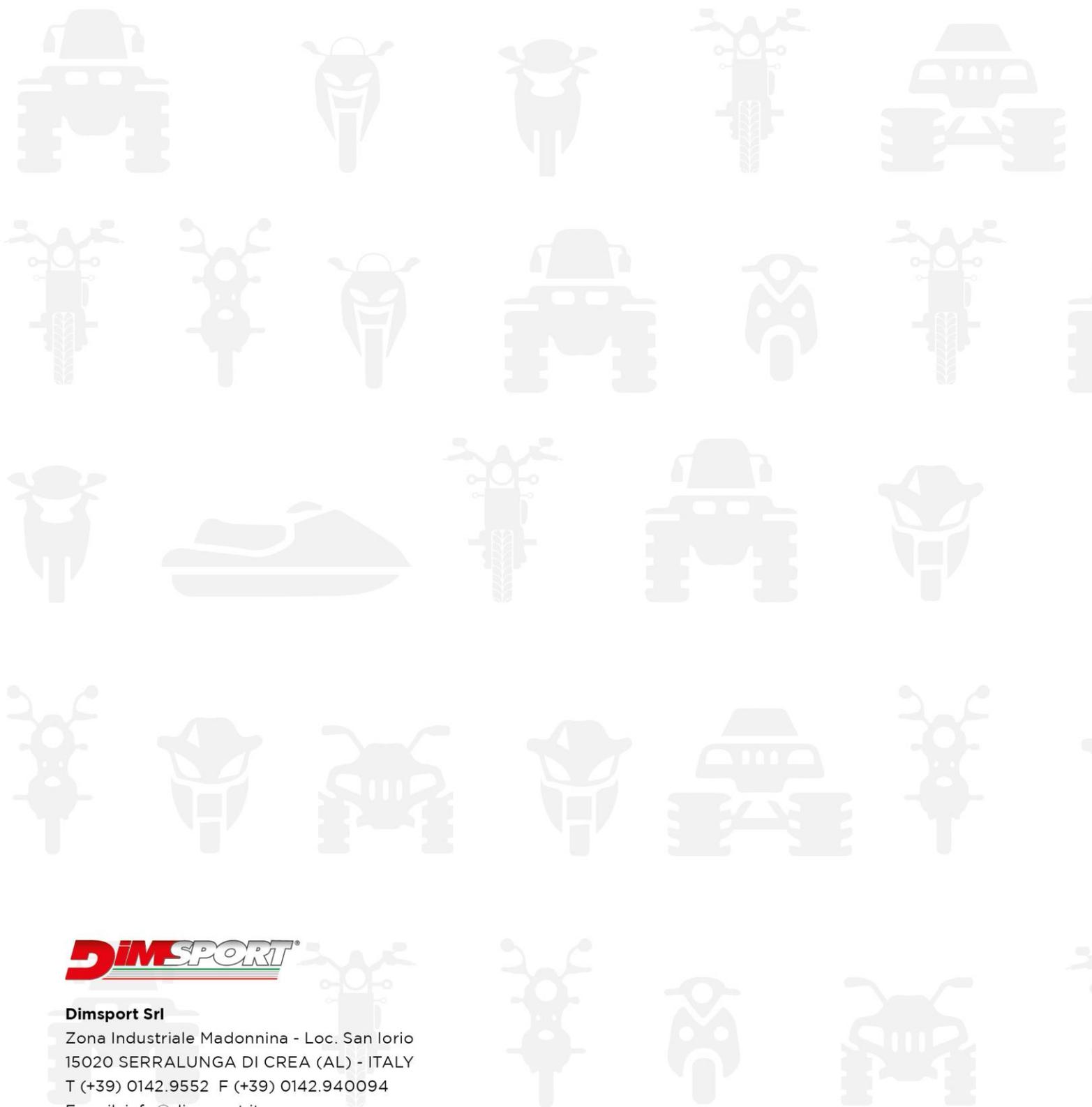


To carry out additional checks and more, you can use the software for PC/Laptop (with Windows®) or a smartphone. The sw. it can be downloaded free of charge from our website [www.rapidbike.it](http://www.rapidbike.it) or [www.Dimsport.it](http://www.Dimsport.it); instead the phone APP. is available in both Android® and IOS® on-line 'stores'. These instruments, via **Bluetooth** (BLE type) wireless connection, also allow you to:

- Activate or deactivate, ON-OFF mode
- Raise or lower the preset control curve
- Verify the functioning and the corrections in real time (only PC sw.)



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