

**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</b>	<b>19-20</b>
	<b>R 1250 GS Adventure</b>	<b>19-20</b>
	<b>R 1250 R</b>	<b>19-20</b>
	<b>R 1250 RS</b>	<b>19-20</b>
	<b>R 1250 RT</b>	<b>19-20</b>

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## Component view and item ID

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

Module code: **F27RBSMART**



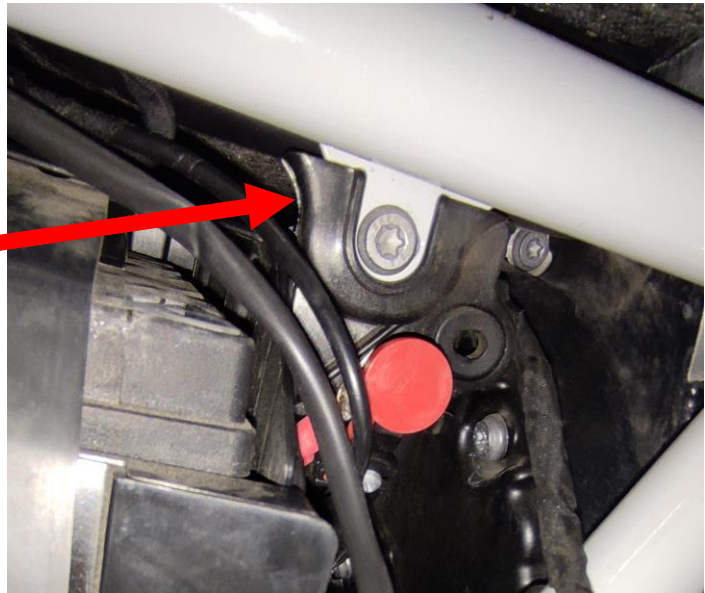
1. Turn ignition off.
2. Put the bike on the centre stand.
3. Remove the black plastic lid on the right side and the rider's seat.
4. Unfasten the ODB port.



### Trottle Position Sensor

5. Route the wire marked as **TPS** toward the stock ECU placed under rider's seat

passing behind the frame on top of the battery

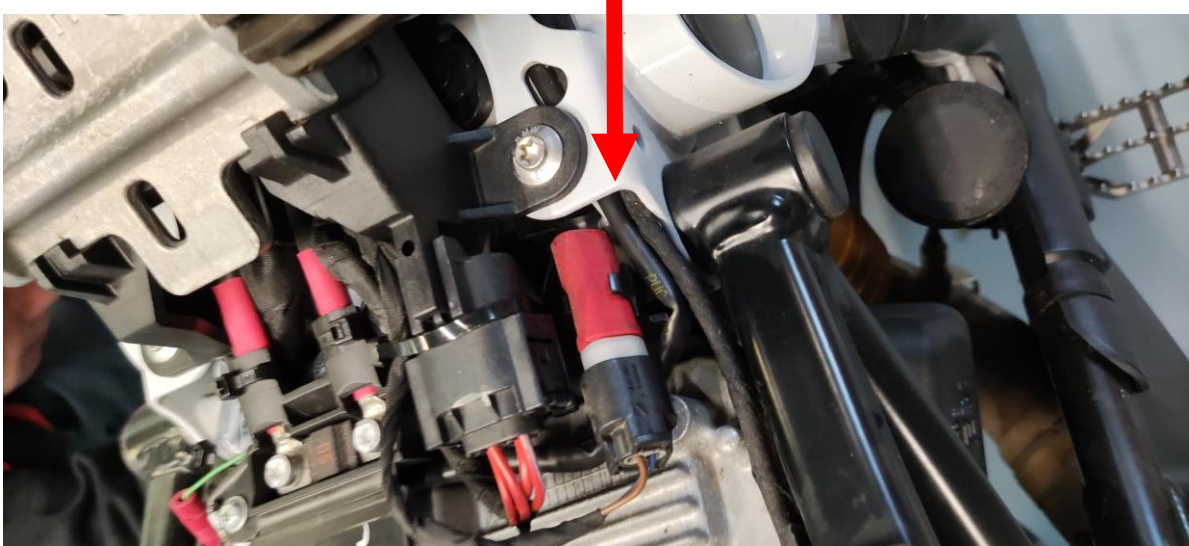


and under the fuel tank

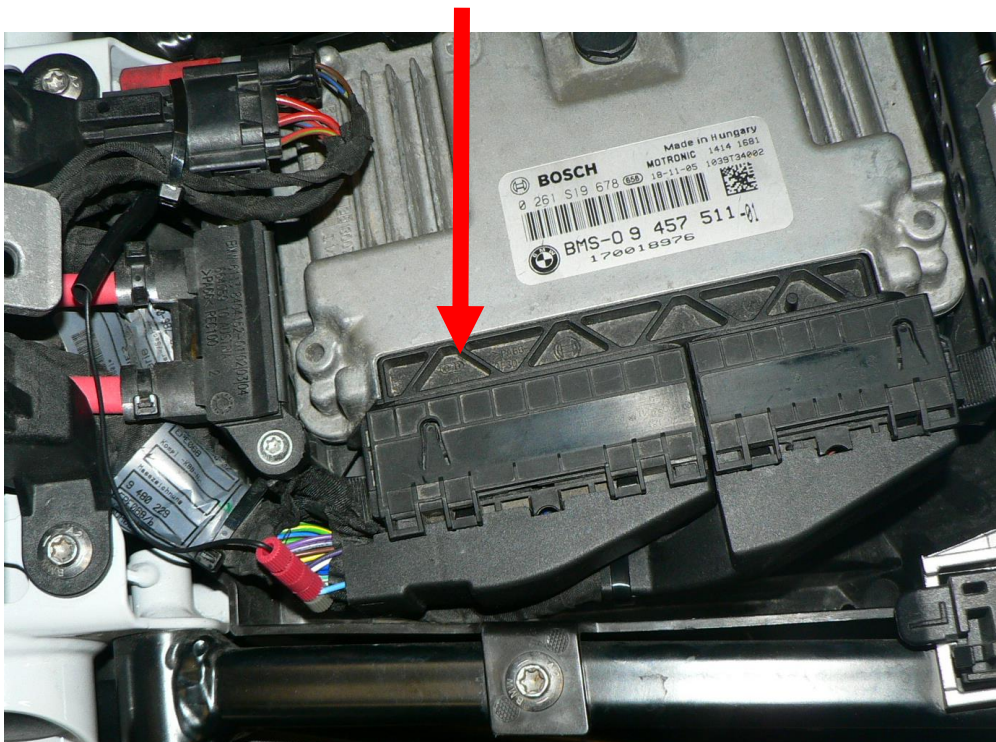




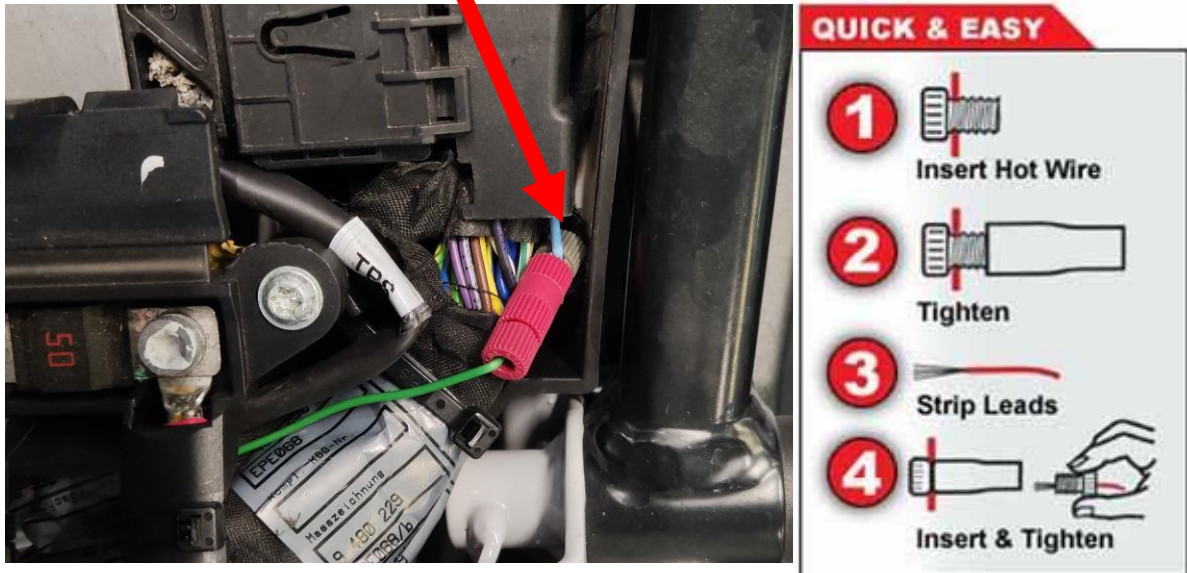
reaching the spot near the 2-way plug on the right side of OEM ECU.



6. Gently pull OEM ECU up to remove it from its location.
7. Disconnect the connectors of OEM ECU pulling out the tabs.
8. Carefully remove the back cover of the larger connector to expose the wires behind it.



9. Locate the light blue wire and connect the green wire of Rapid Bike harness using the supplied posi-tap. Cut the tape to expose more wire and connect the posi-tap far enough to allow placing the cover back.



10. Re-connect OEM ECU's connectors and place back the ECU in its location.

### Front Right O2 sensor - LW2

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

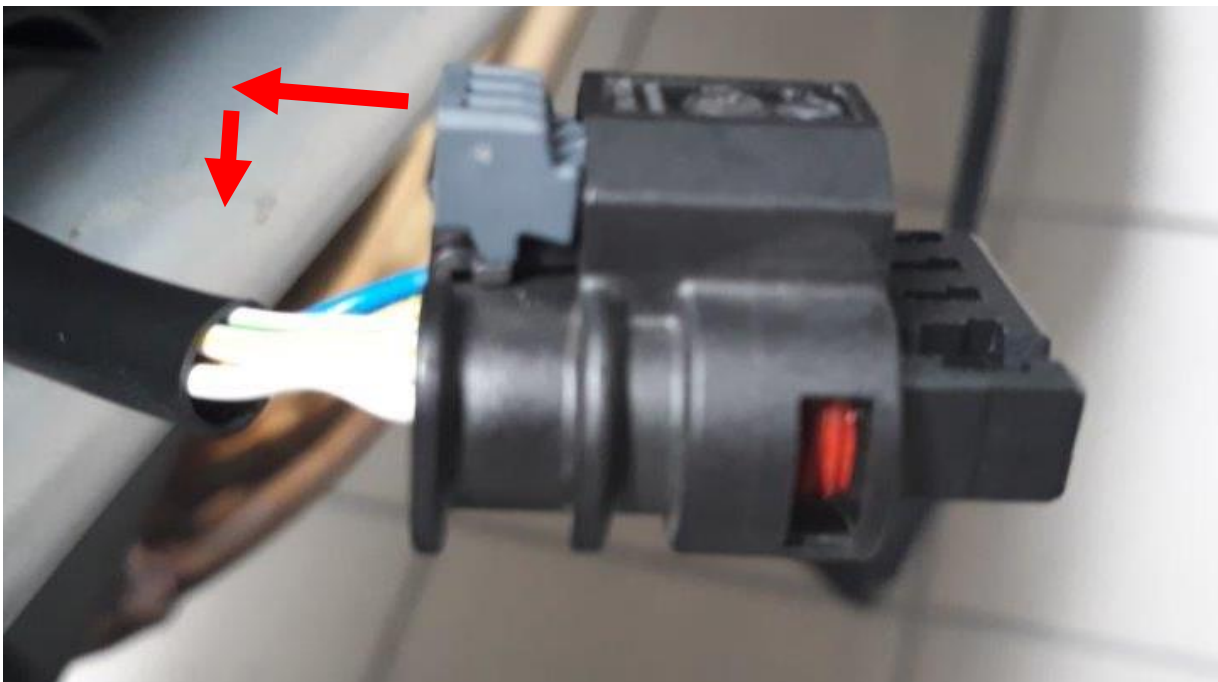


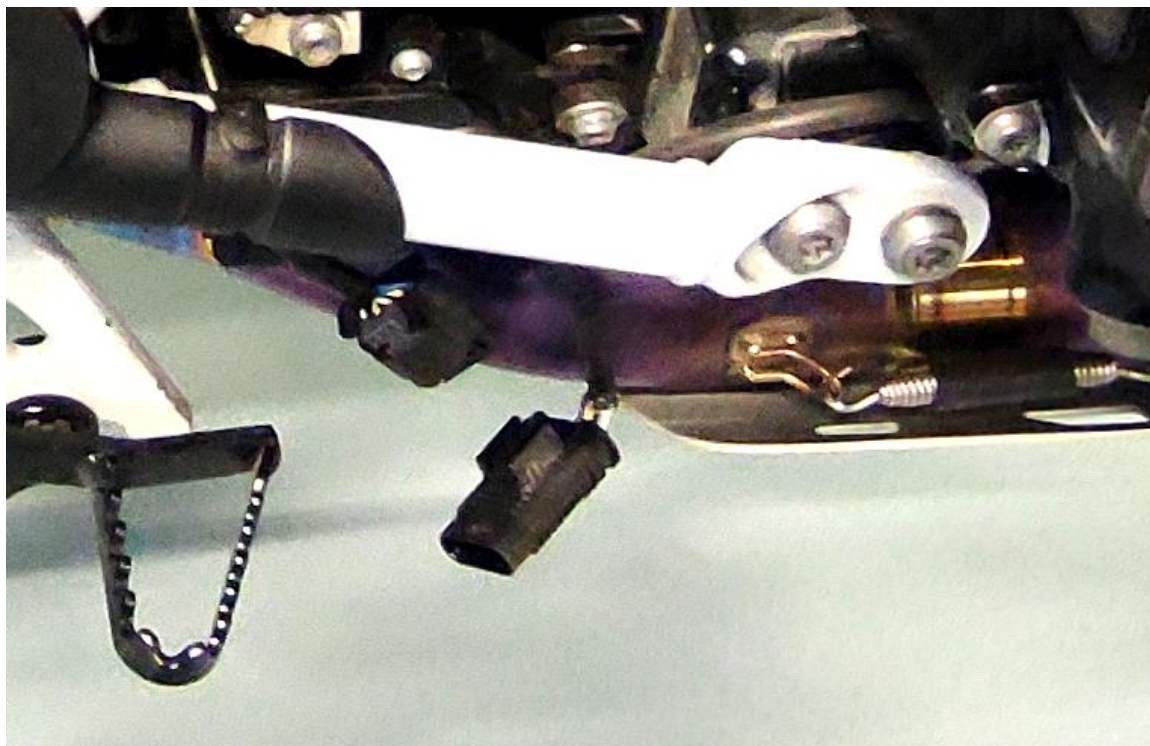


11a Use a flat tool to gently pull away the plastic hook and unfasten the connectors from the frame.



11b Pull out and then push down the grey tab to disconnect the connectors.





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

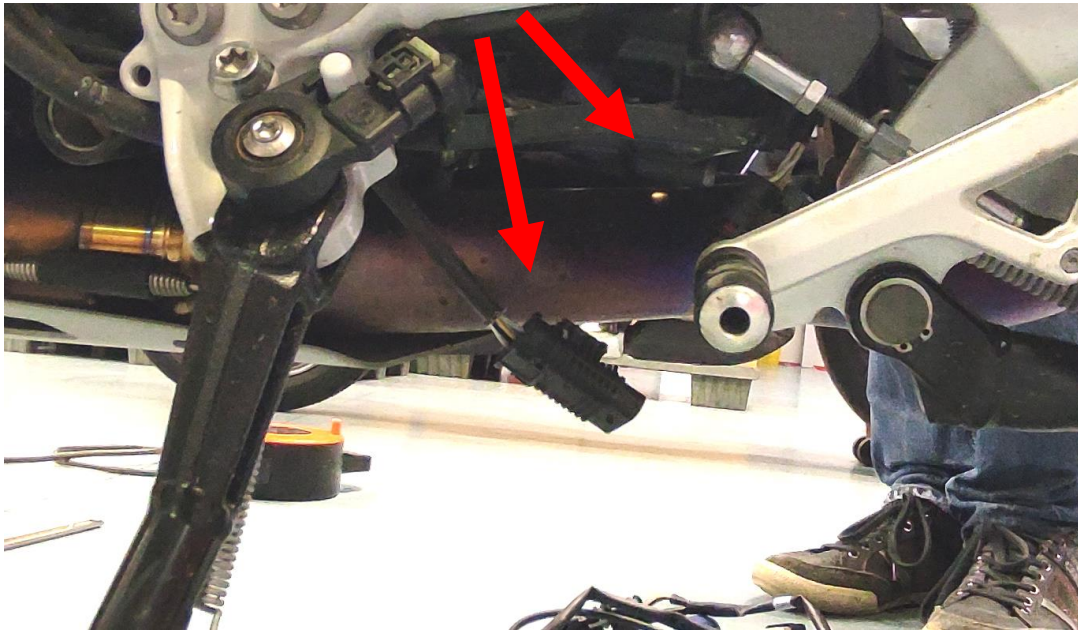




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**Front left O2 Sensor - LW1**

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



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





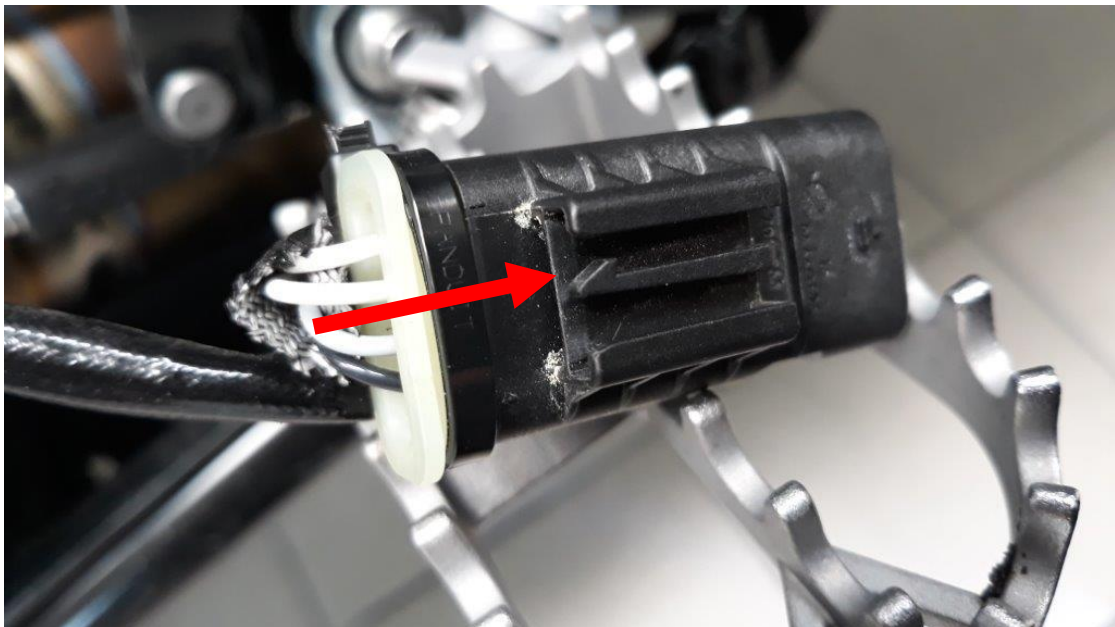
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**Central rear O2 Sensor - LN1**

16. 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.



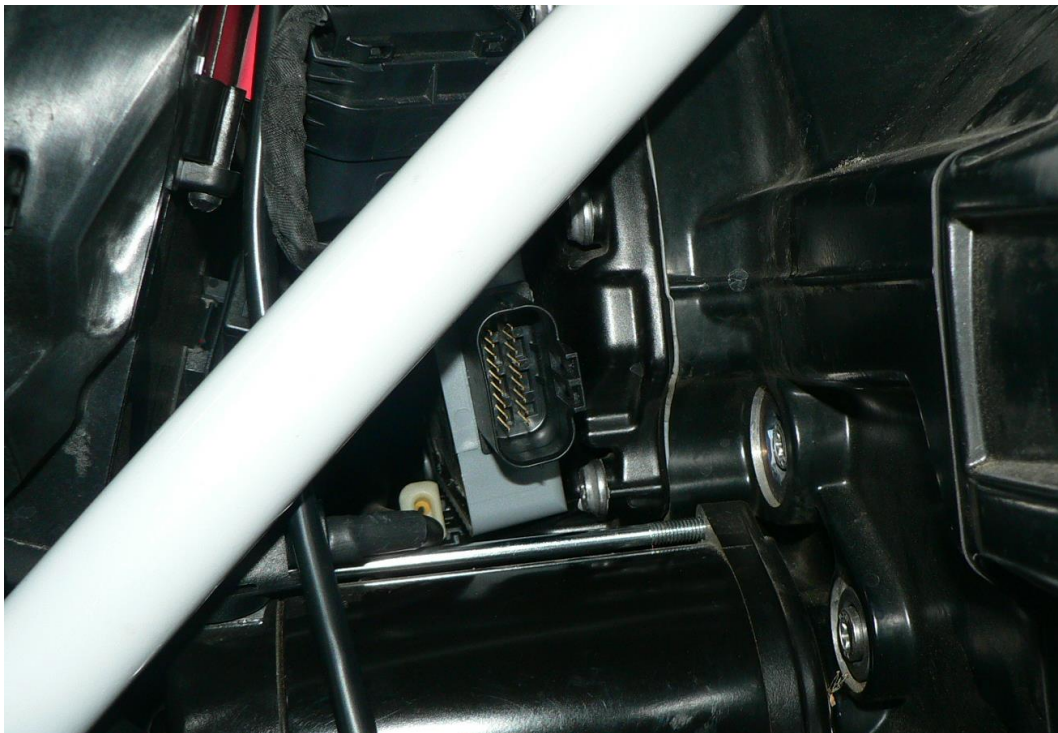
- a. Using a flat tool to gently pull away the plastic hook and unfasten the connectors from the frame may help unplugging the connectors.



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



18. 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.



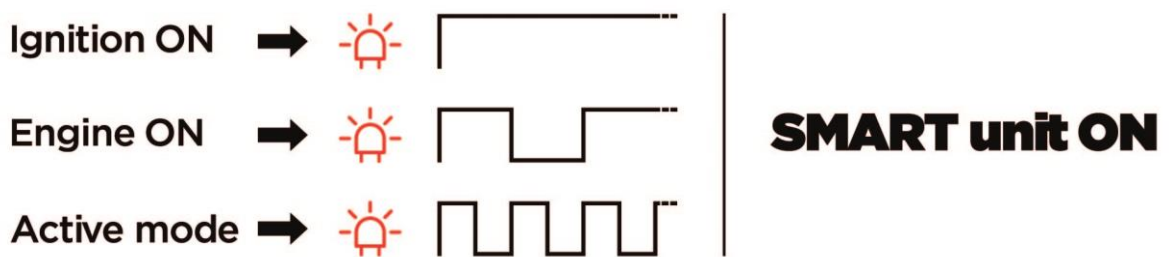


19. Connect the wiring harness to the SMART unit.



20. Put the OBD port back in its location.

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





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



23. 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 point 21. 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**



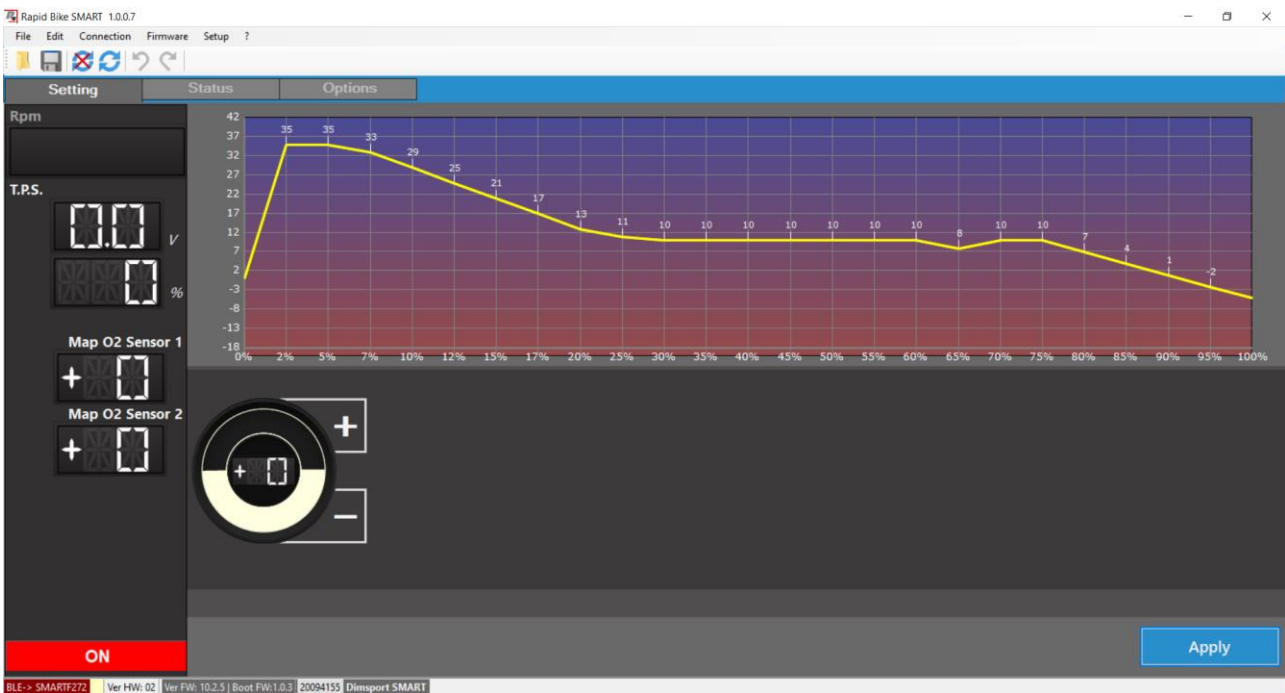
Repeat the operation to turn SMART unit ON



**SMART unit ON**



Same operation can be performed with Rapid Bike SMART software downloadable for free from [www.rapidbike.com](http://www.rapidbike.com). Furthermore, software allows users to increase / reduce the range of the adjustments available with SMART unit.



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Notes:

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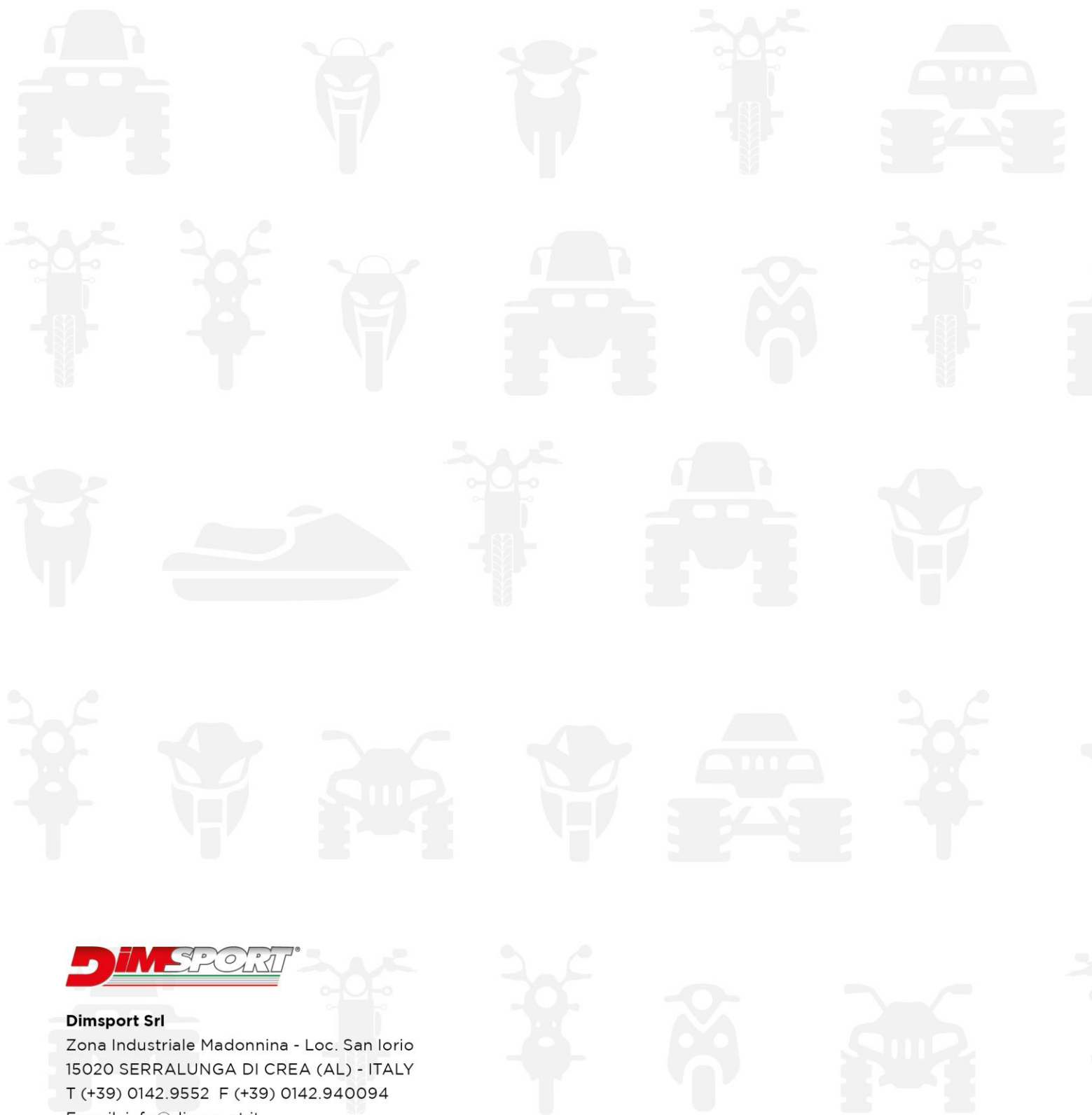




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