

ECU
REMAPPING

CARS/TRUCKS/TRACTORS
MODULES

MOTORBIKES
MODULES

POWER BENCH
TESTERS



RAPID
BIKE

SMART

INSTALLING INSTRUCTIONS

Applicability

Make: **BMW**

Model: **S 1000 RR** **19-23**
M 1000 RR **20-23**

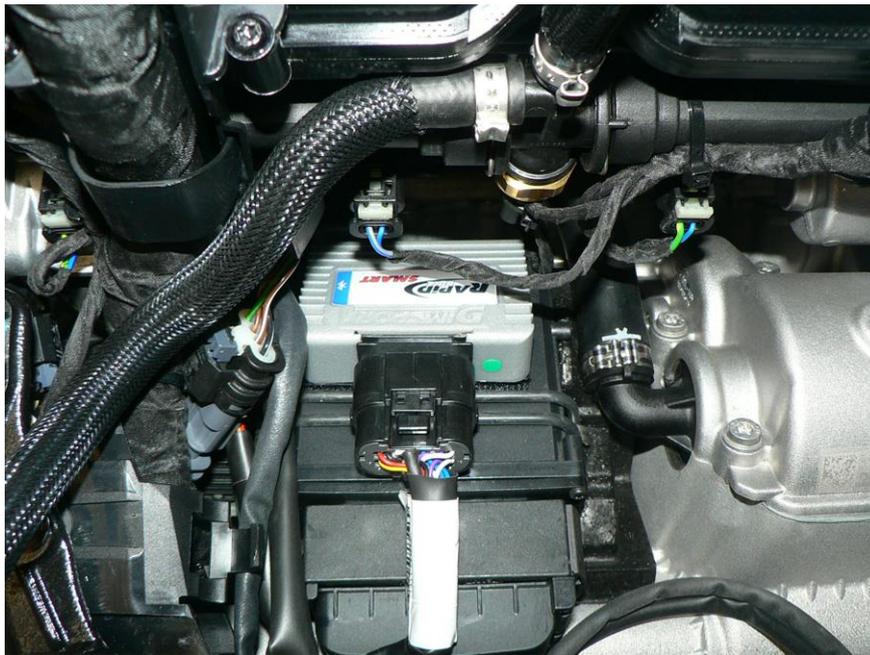
Component view and item ID

Wiring code: **F27-SMR-003**

Module code: **F27RBSMART**



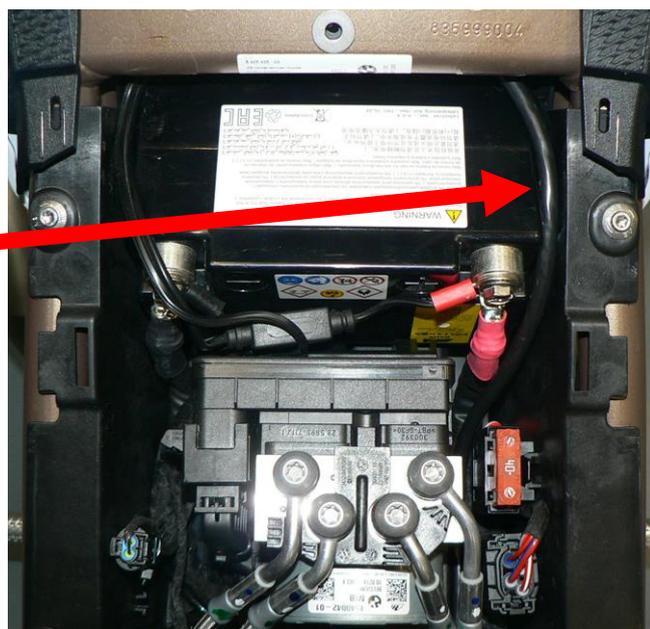
1. Turn ignition off.
2. Remove seats, side fairings and fuel tank.
3. Place the SMART unit under the fuel tank using the provided Velcro and connect the wiring harness.



OBD – Diagnostic port

4. Route the wire marked as **DIAGNOSTIC** toward the tail

passing on the side of ABS pump and battery



then under the passenger's seat lock and connect it to OEM diagnostic port.

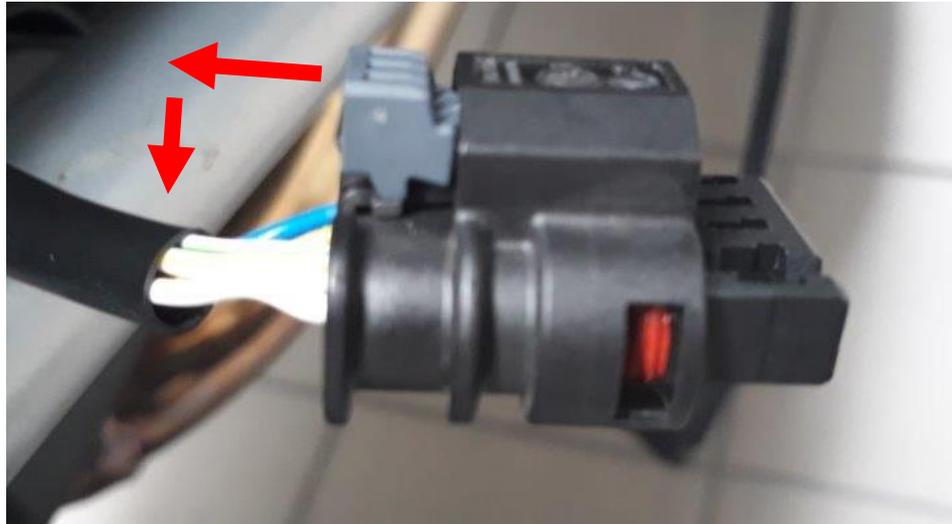


Front left O2 Sensor - LW1

5. Locate the connectors of the left Lambda sensor placed under the crankcase.



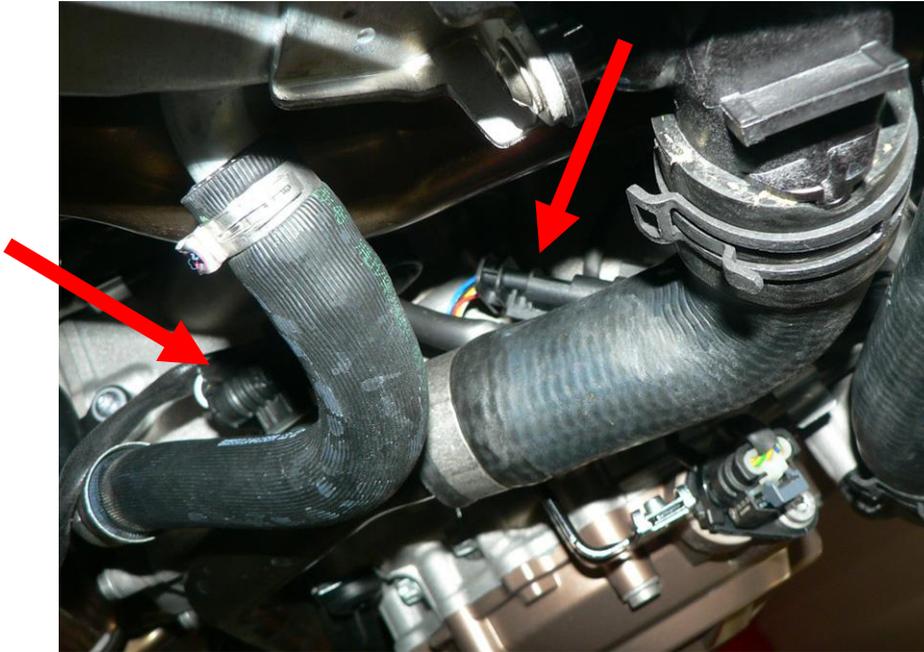
- a. Unfasten the connectors from the frame by rotating them clockwise.
- b. Pull out and then push down the grey tab to disconnect the connectors.



6. Route the connectors marked as **LW1** between frame and engine head, following the same path of OEM wiring harness for Lambda sensor.



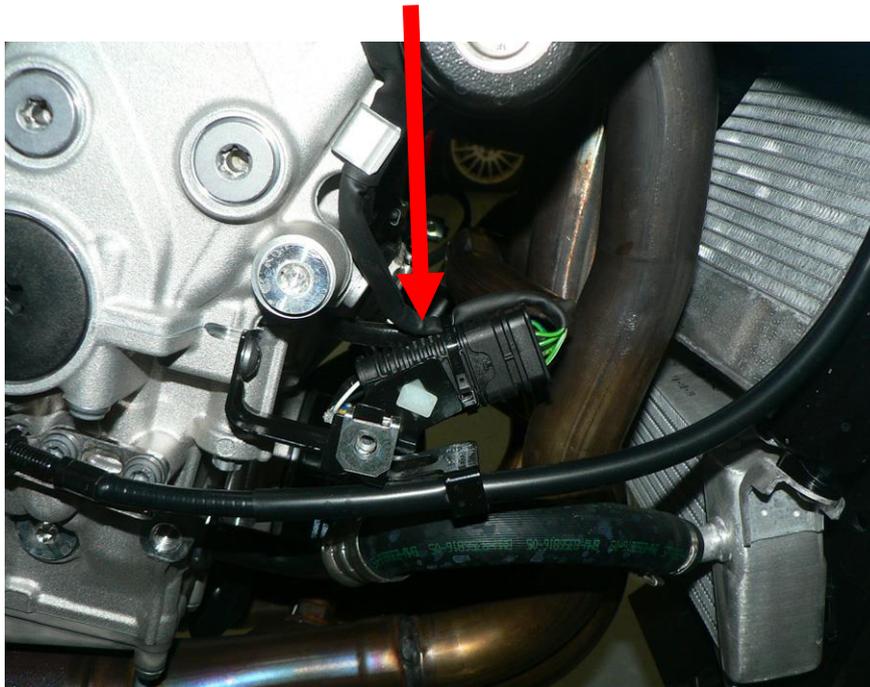
7. Fasten Rapid Bike wiring harness to OEM Lambda wiring harness using zip ties.
8. Plug the connectors marked as **LW1** in-line with the stock wiring.



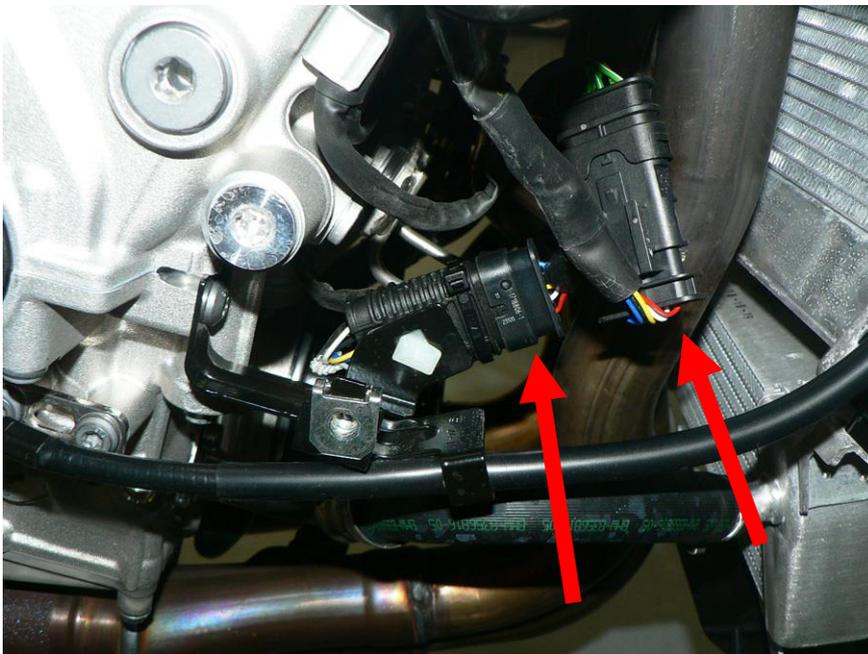
(Picture has been shot from below)

Front Right O2 sensor - LW2

9. Locate the connectors of the right Lambda sensor placed between engine and exhaust manifold. Follow instructions at point 5 to unfasten and disconnect the connectors.

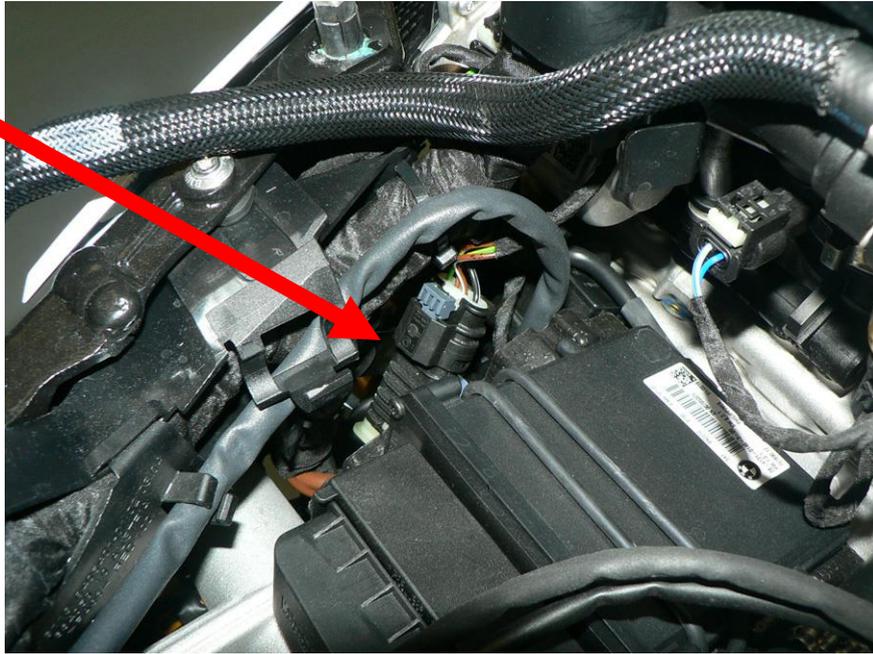


10. Route the connectors marked as **LW2** on the right side of the engine, following the same path of OEM wiring harness for Lambda sensor.
11. Fasten Rapid Bike wiring harness to OEM Lambda wiring harness using zip ties.
12. Plug the connectors marked as **LW2** in-line with the stock wiring and fasten them using zip ties to keep them away from exhaust manifold.



Left Rear O2 Sensor - LN1

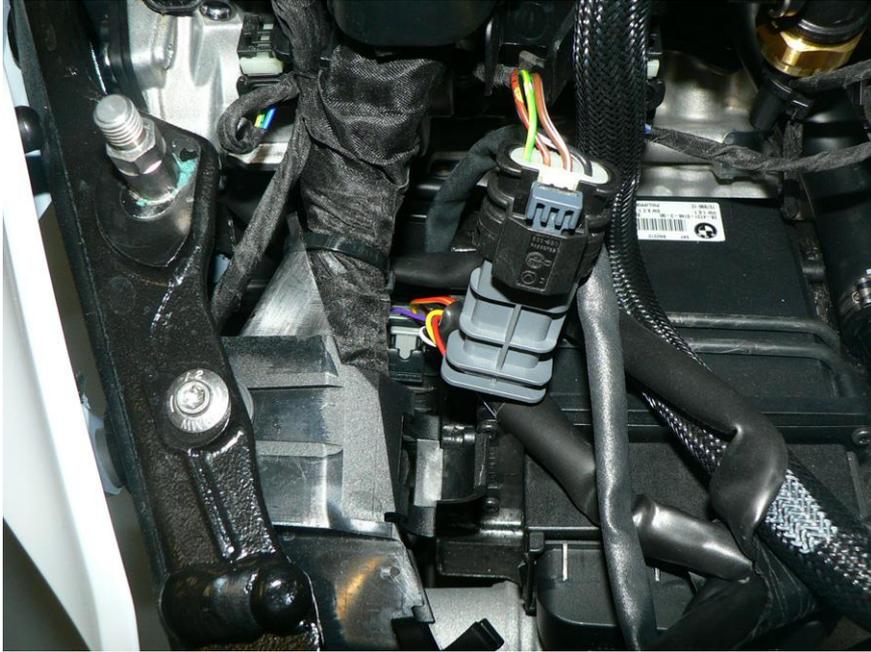
13. Locate and disconnect the connectors of the left post catalytic converter Lambda sensor placed under the fuel tank.



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

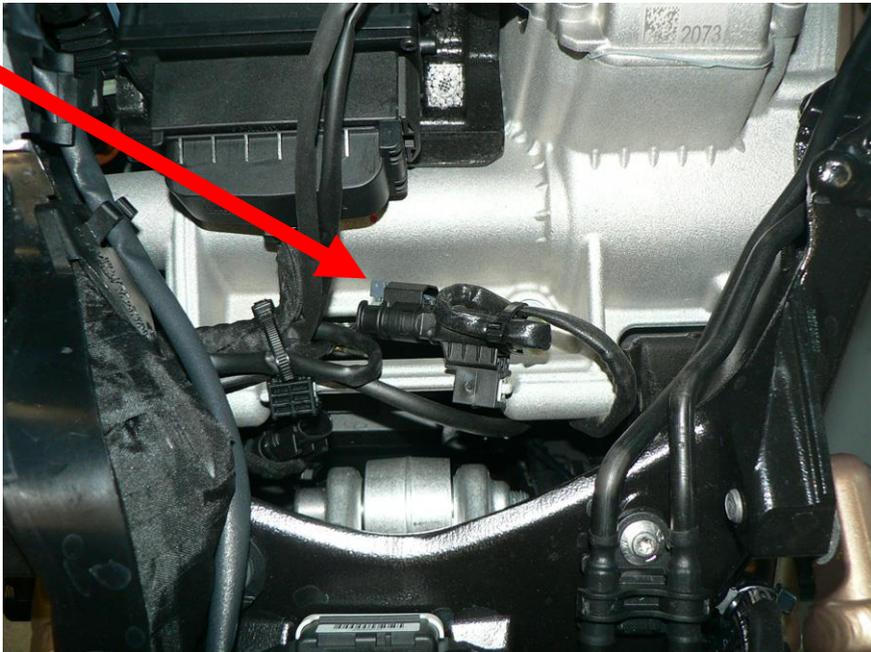


14. Plug the connectors marked as **LN1** in-line with the stock wiring.

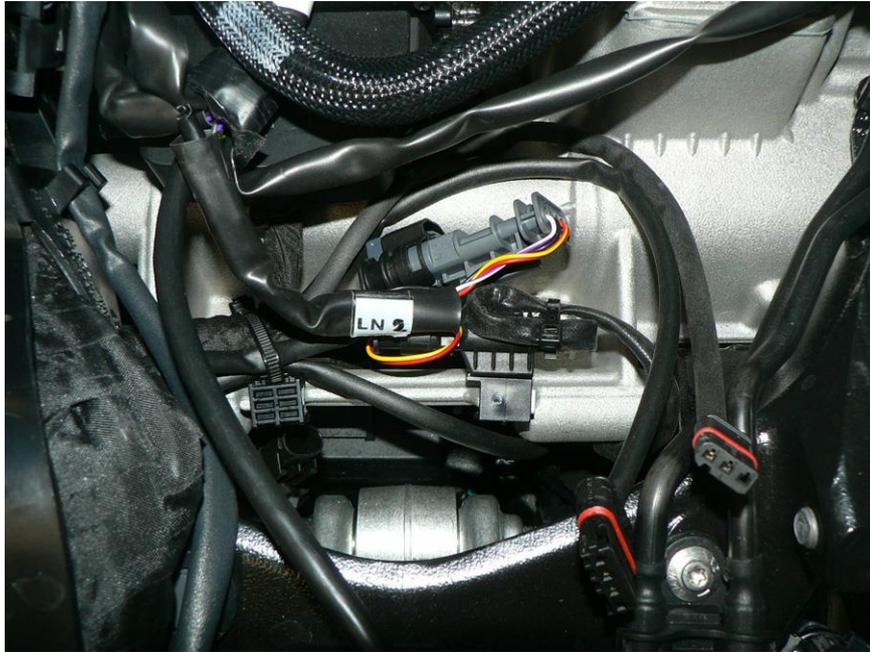


Right Rear O2 Sensor – LN2

15. Locate and disconnect the connectors of the right post catalytic converter Lambda sensor placed under the fuel tank.



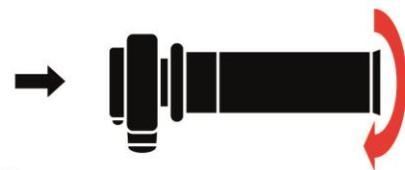
16. Plug the connectors marked as **LN2** in-line with the stock wiring.



17. Ensure the wiring harness is properly fastened, then re-install fuel tank, side fairings and seats.

Rapid Bike SMART is programmed to be ON by default. 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



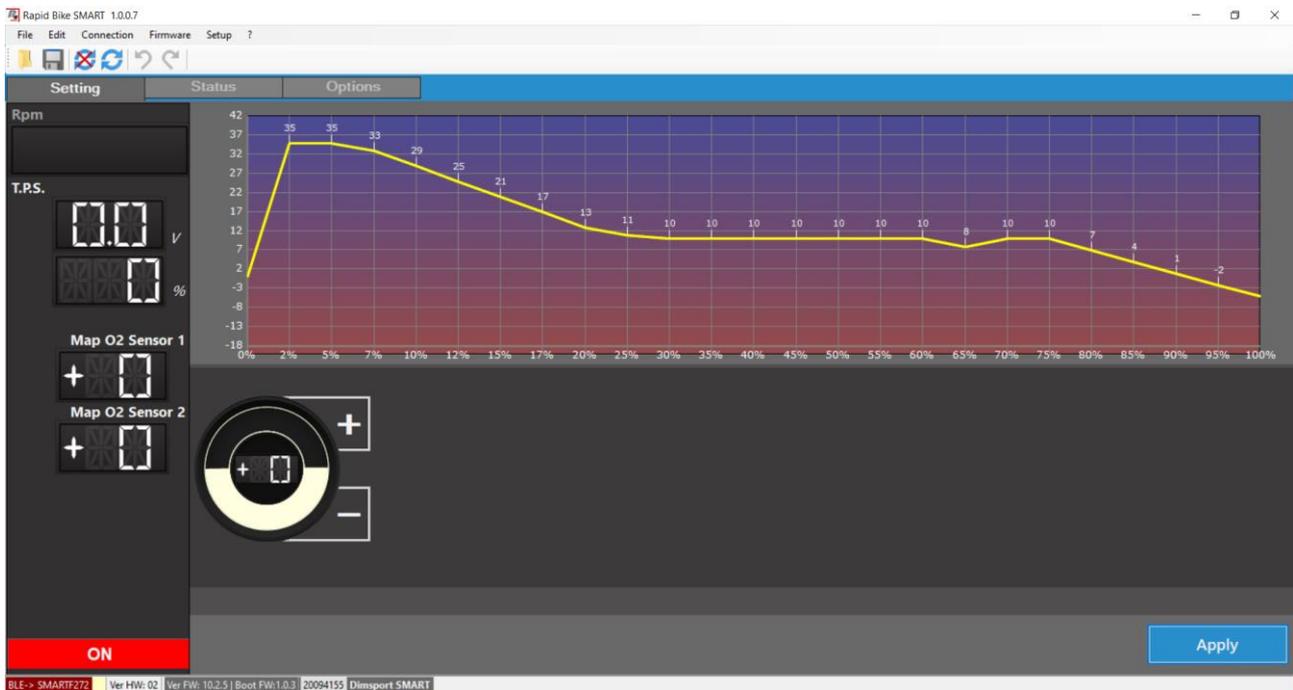
SMART unit OFF →  

Repeat the operation to turn SMART unit ON →

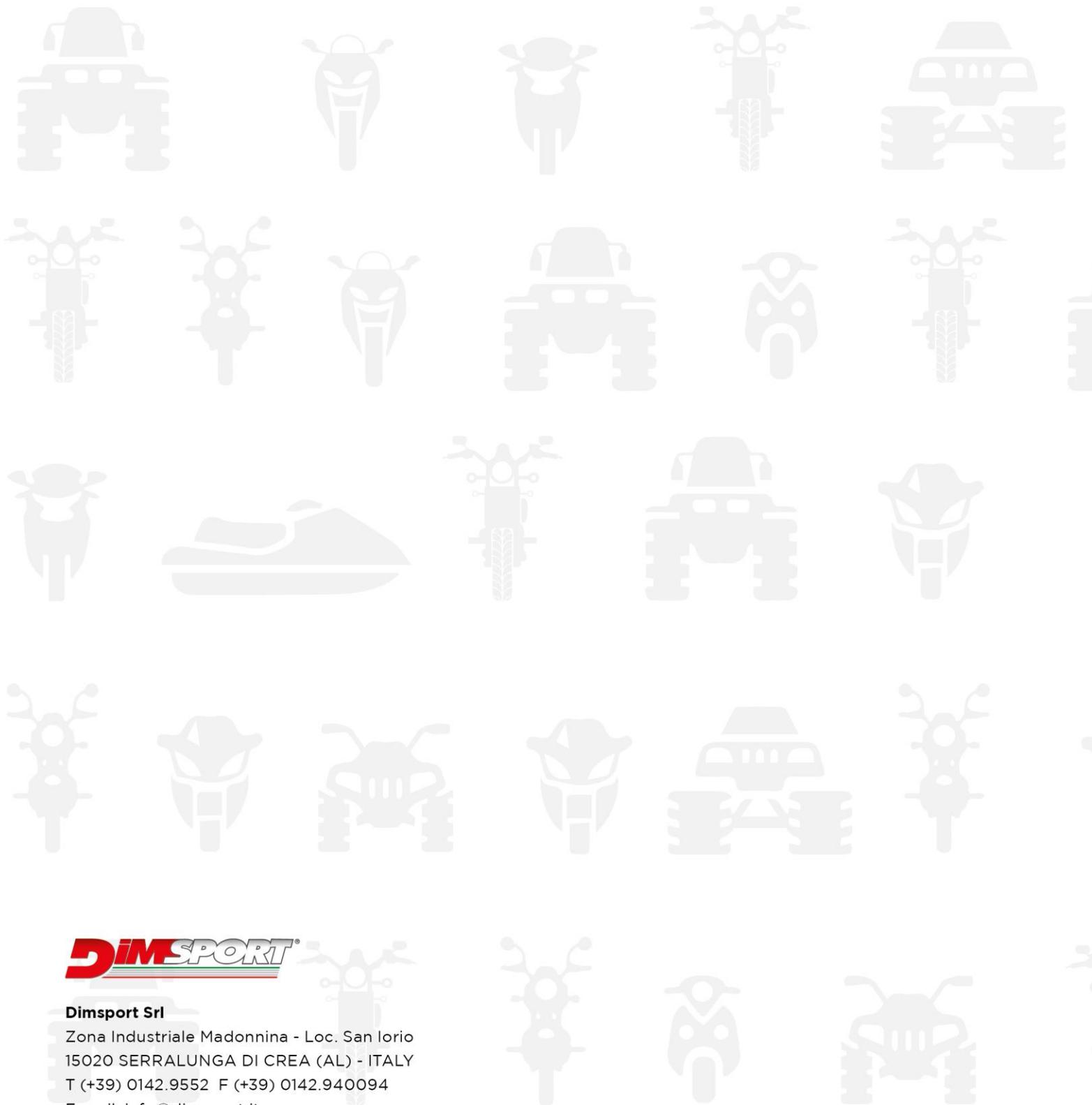


SMART unit ON →  

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



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