

ECU
REMAPPING

CARS/TRUCKS/TRACTORS
MODULES

MOTORBIKES
MODULES

POWER BENCH
TESTERS



RAPiD
BIKE
SMART

INSTALLING INSTRUCTIONS

1 - Applicability

Make: **Ducati**
Model: **Multistrada V4 1100 21-24**

Warning: The instructions for standard European models with four Lambda probes are illustrated below. In the same years extra-European versions can be found with only two probes; for their connection, follow the notes in the appendix of paragraph 9.

2 - Component view and item ID

Wiring code: F27-SMR-004

Module code: F27RBSMART

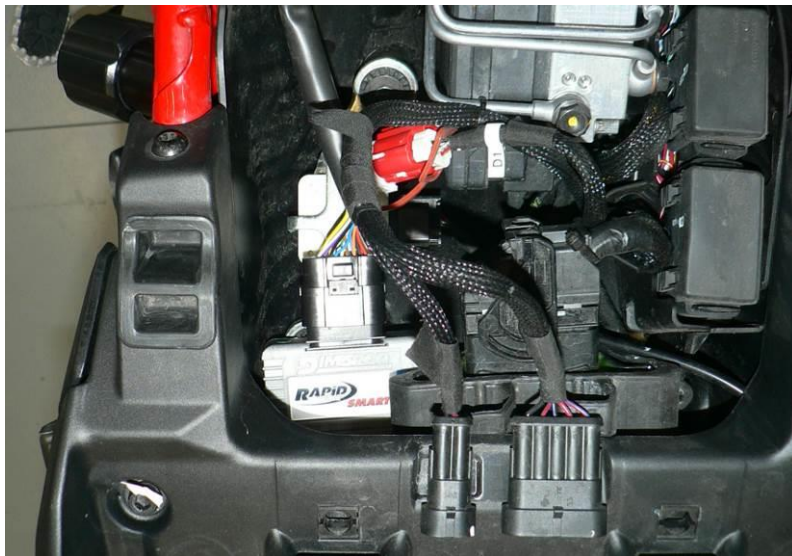


3 - Precautions/Disclaimer

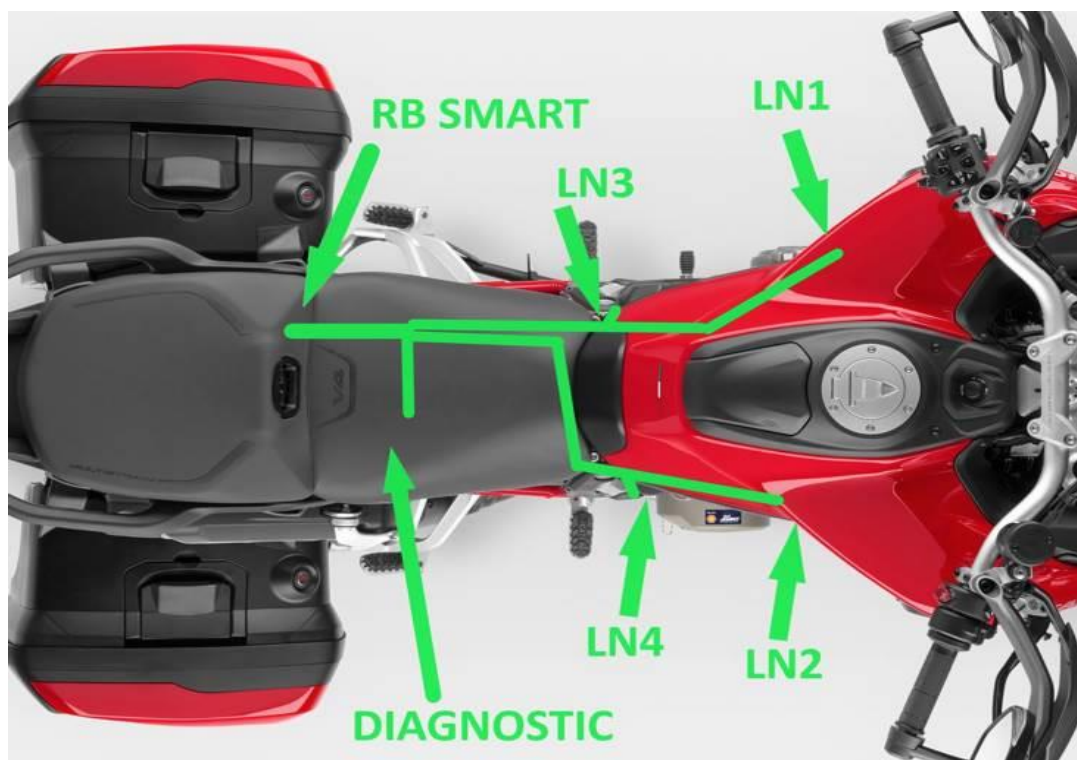
For the correct SMART module function, the motorcycle system must be intact and fully functional. Installation must be carried out by competent personnel and the supply conditions such as "**Appendix 1**" at the end of this instruction manual, must be read and accepted.

4 - Preliminary operation

- 4.1 Turn ignition off.
- 4.2 Put the bike on the centre stand.
- 4.3 Remove the seats, the side fairings and unscrew the tank.
- 4.4 Place the SMART control unit under the seat

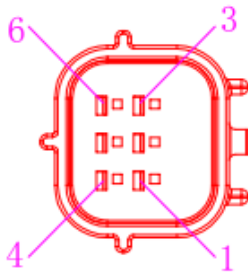


- 4.5 Place the SMART harness as following pictures



5 - Diagnostic plug

Position: under the seat
Type: 6 pins red
(D1 connector)



What to do:

Remove the cap and plug the Smart connector marked as **"DIAGNOSTIC"**



6 - Front Left O2 sensor (LN1)

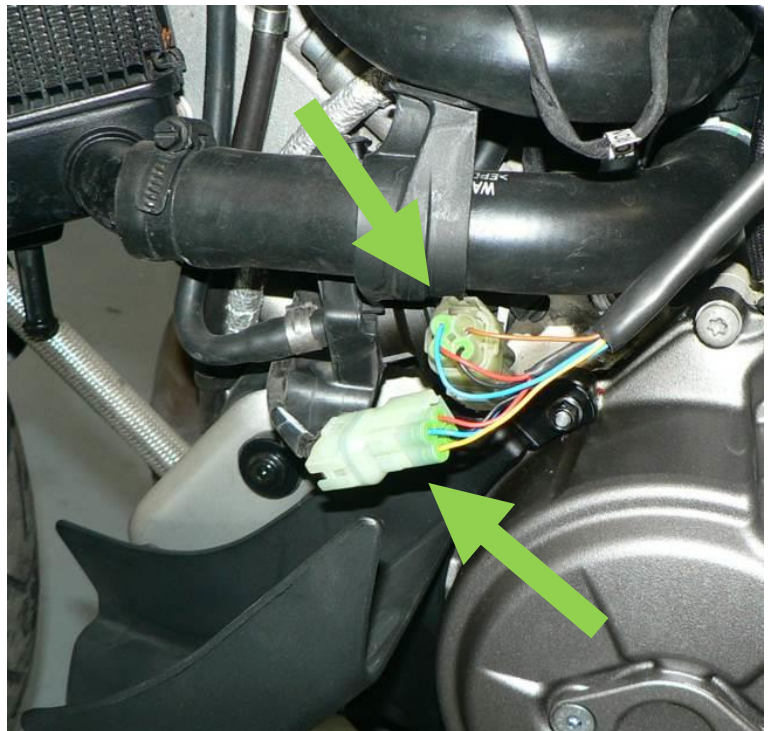
Position: Left side,
under the radiator pipes

Type: 4 pins white/black,
Front 1 cylinder's Lambda sensor



What to do:

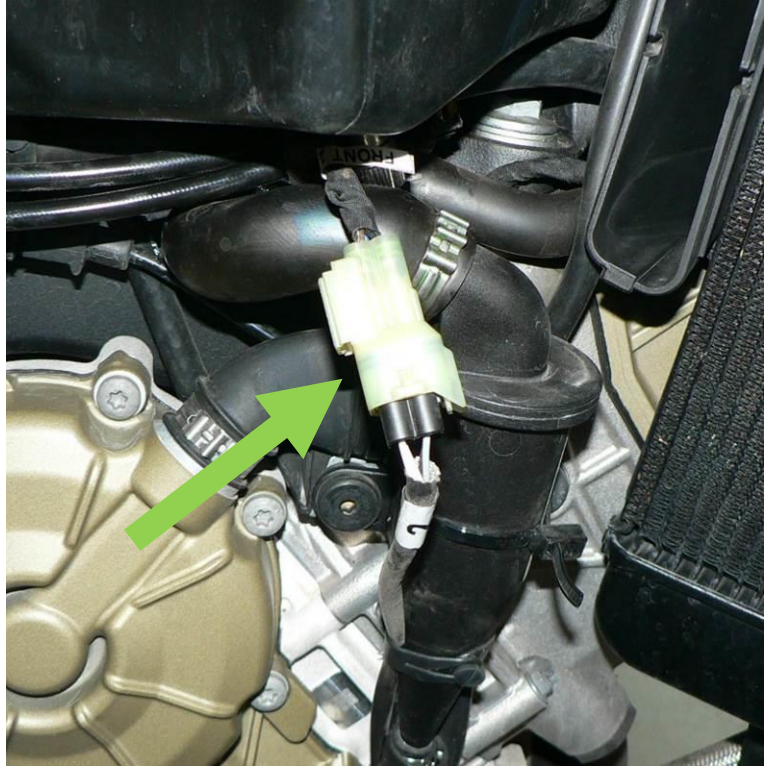
Unplug the bike original connectors.
Plug the SMART one, marked as **LN1**
in-line with the stock wiring.



7 - Front Right O2 sensor (LN2)

Position: Right side,
Lower front part of the engine.

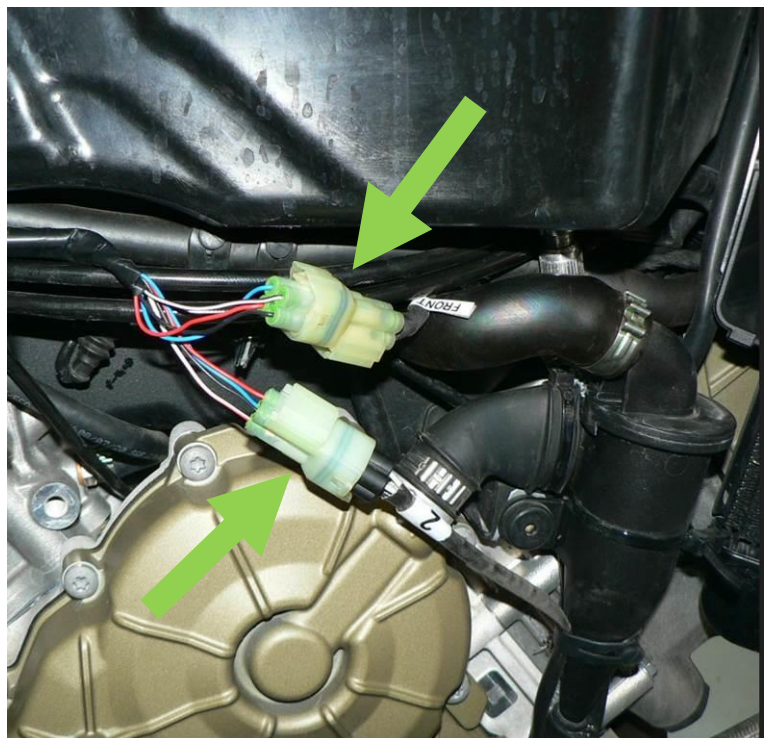
Type: 4 pins white/black,
Front 2 cylinder's Lambda sensor.



What to do:

Unplug the bike original
connectors.

Plug the SMART one, marked as
LN2 in-line with the stock wiring.



8 - Rear Left O2 sensor (LN3)

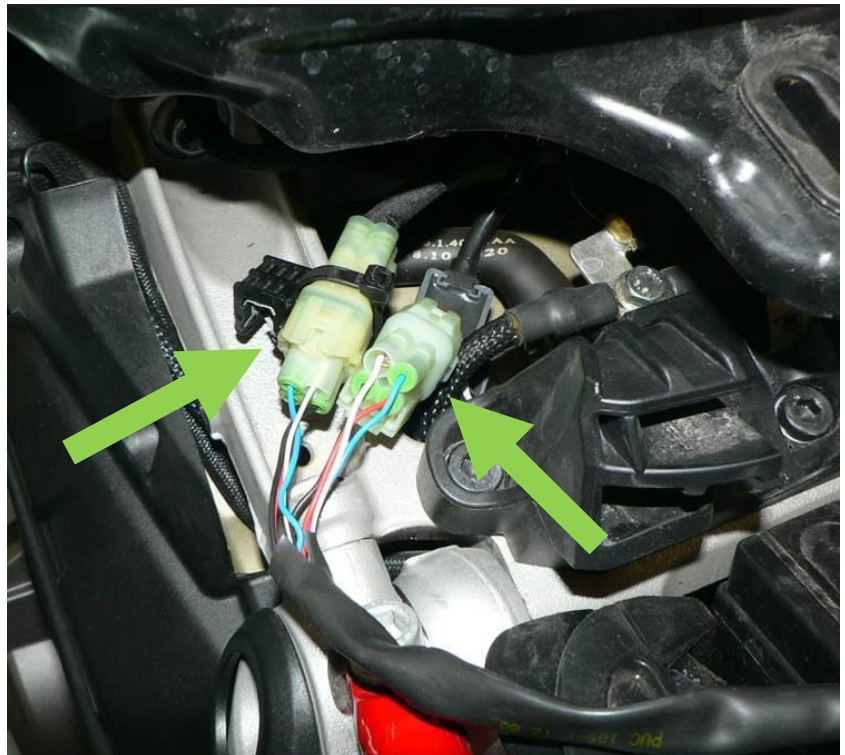
Position: left side,
under the tank.

Type: 4 pins white/black,
Rear 3 cylinder's Lambda
sensor



What to do:

Unplug the bike original
connectors.
Plug the SMART one,
marked as **LN3** in-line with
the stock wiring.



9 - Rear Right O2 sensor (LN4)

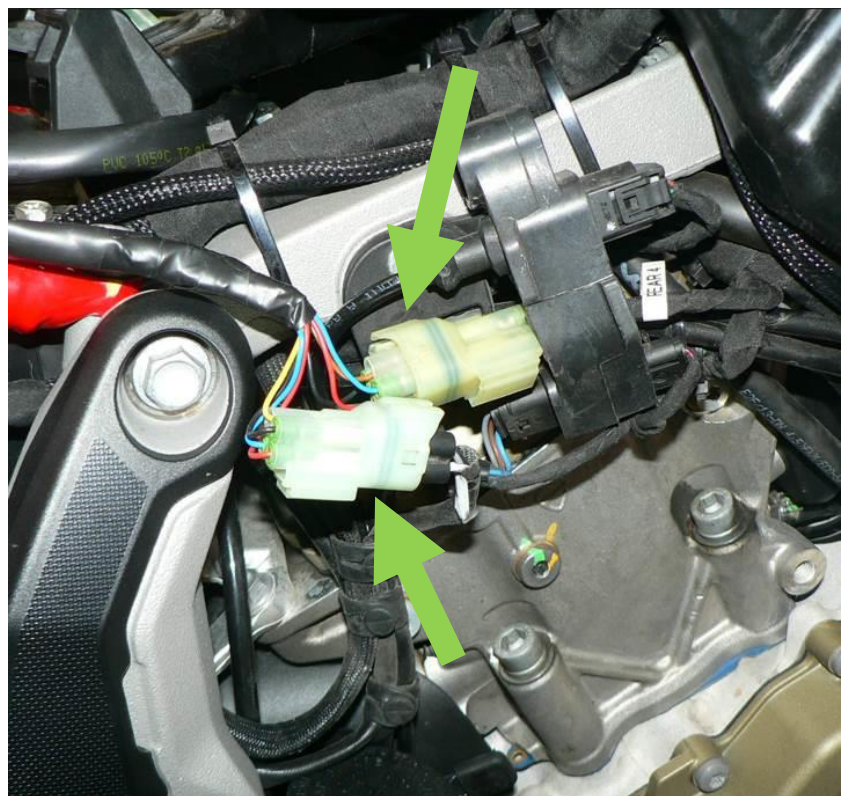
Position: right side,
above the brake pedal.

Type: 4 pins black/white,
Rear 4 cylinder's Lambda
sensor



What to do:

Unplug the bike original
connectors.
Plug the SMART one,
marked as **LN4** in-line with
the stock wiring.



9 appendix – Versions with 2 Lambda (O2).

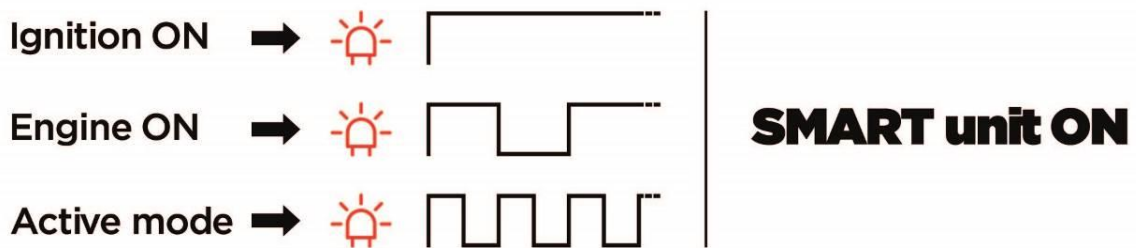
In case of the motorcycle is equipped with only two probes, proceed as follows:

- Follow the chapter 6 (**LN1**) instructions to connect the front cylinders O2 sensor
- Follow the chapter 9 (**LN4**) instructions to connect the rear cylinders O2 sensor
- The RB remaining connectors **LN2** and **LN3** will not be used, they can be joined together and fixed in a secure position.

10 – Final operations

10.1 Connect the wiring harness to the SMART unit.

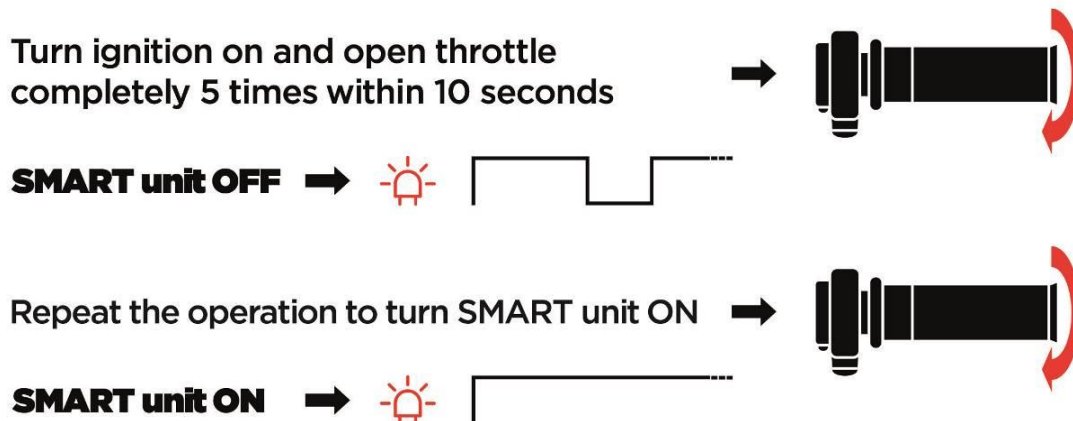
10.2 Check the installation with the red LED placed on the back of SMART unit.



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

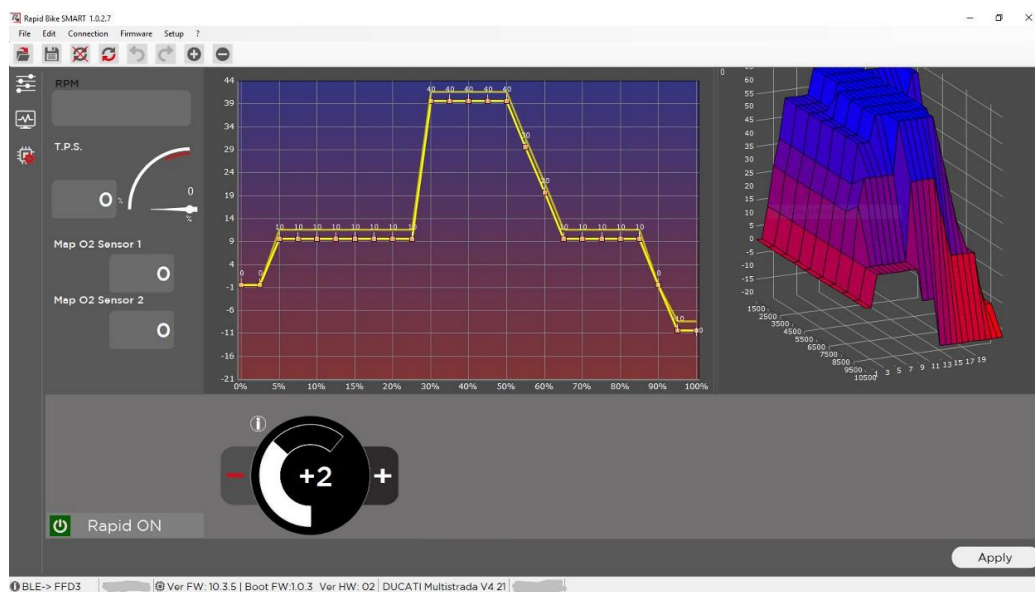
10.4 Ensure the wiring harness is properly fastened, then reassemble all removed parts.

Rapid Bike SMART is programmed to be active (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:



11 – Extras

ON/OFF operations can be performed also with Rapid Bike SMART software downloadable for free from www.RapidBike.com or www.Dimsport.com. Furthermore, software allows users to increase/reduce the range of the adjustments available with SMART unit as well as to do various reading and checking operations.



To connect with the SMART control unit, you only need an internal or external Bluetooth adapter to the PC at least release **4.0 BLE**. More information on the “Rapid Bike SMART” software manual, available with its installation.



The Bluetooth interface of the SMART control unit also allows the connection and management of some parameters with your smartphone; search the “**Rapid Bike SMART APP**” available in the RapidBike.com site and on-line store for Android® and IOS®



Appendix 1

USER'S RESPONSIBILITIES

RAPID device allows the User to have access to some engine parameters (for example: lambda, fuel, rpm limiter, etc.). Changing such parameters might make the vehicle non in compliance with some power and/or speed and/or emissions standards of Your Country and also might determine a superior wear and tear of mechanical and electrical components of the vehicle, to the point that manufacturer's (or seller's) warranty might be considered void.

Dimsport Srl (except as set forth hereafter) does not grant any warranty and shall never be considered liable for any disruption that may derive from using RAPID device, in particular with respect to any extra wear and/or deterioration of the engine or of any other mechanical and/or electrical part of vehicle.

The reading and understanding of RAPID device Instructions must forerun the use of RAPID device (in all its parts).

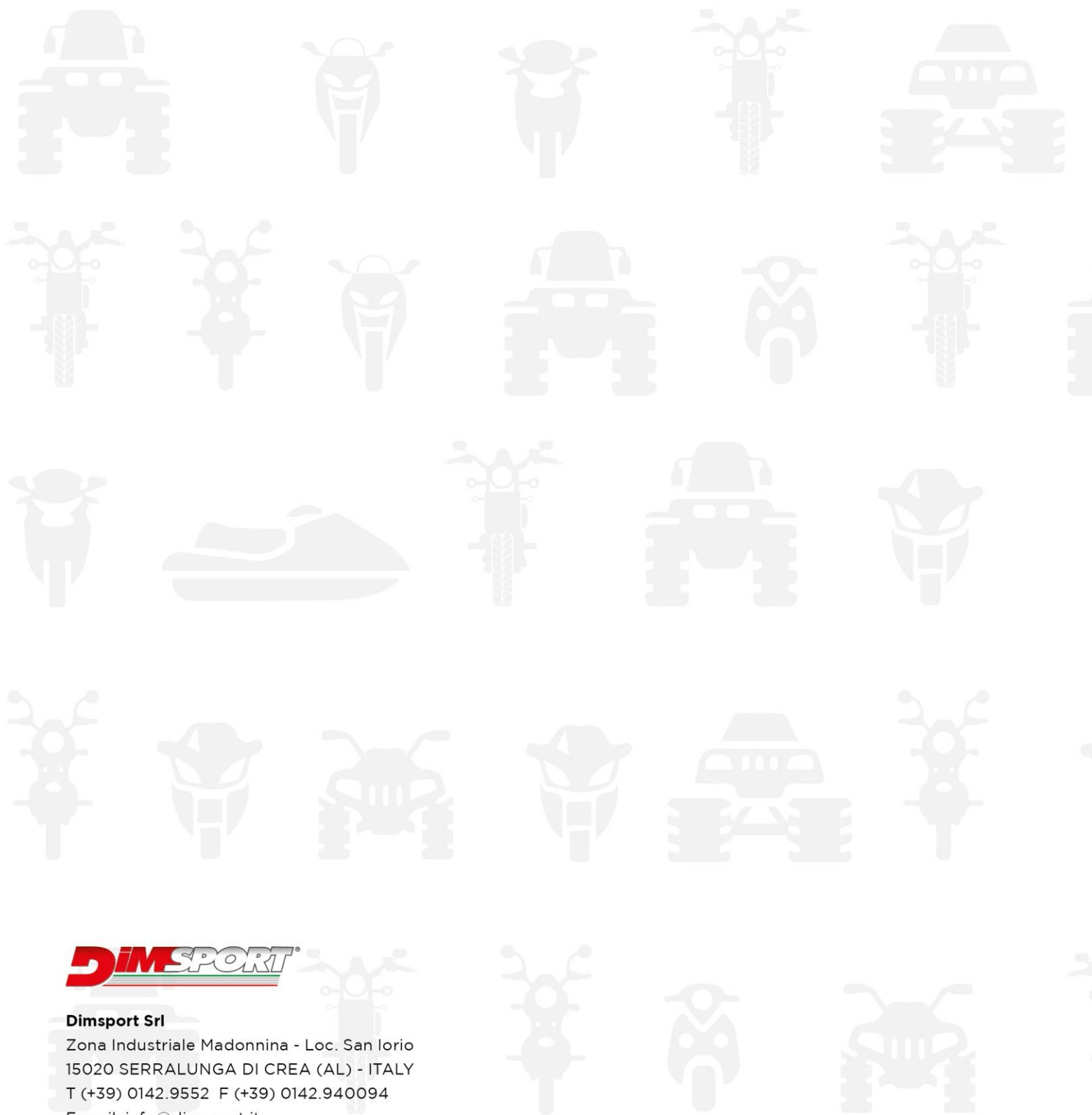
If the User is a consumer the provisions of D.lgs 206/2005 which concern the conformity warranty of purchased items shall apply (in accordance with such D.lgs 206/2005, a consumer is a person that buy products outside from his business). Therefore, the consumer with no extra expenses, has the right to obtain the conformity restatement of purchased item, by its replacement or reparation. For this purpose, Dimsport must be informed about item non-conformity within 2 (two) months from the discovery of such non-conformity. This warranty covers the defects that come within 2 (two) years from the delivery. The normal "wear and tear" shall never be considered non-conformity. This warranty shall never be applied if the consumer alters RAPID device and/or if the consumer directly or indirectly repairs it and/or if the non-conformity is due to improper, negligent or imprudent use of RAPID device.

If the User is a professional user, Dimsport only warrants that RAPID device is free from manufacture defects for 2 (two) years from the purchase date, provided that the professional user is able to demonstrate such date by showing proper documentation.

UNDER NO CIRCUMSTANCES SHOULD RAPID DEVICE BE USED TO BREAK THE LAW OF THE COUNTRY OF USE OF THE VEHICLE. FAILURE TO COMPLY WITH SUCH PROVISION WOULD DETERMINE THE IMMEDIATE TERMINATION OF THIS AGREEMENT.

Without prejudice to mandatory law provisions, Dimsport Srl shall be relieved from any and all contractual and / or extra-contractual liability for personal injury; for direct and / or indirect damage (both with reference to emerging damage and loss of profit); for any claim and / or cost of any kind; which has been suffered by the User or by any third parties and which may derive from the use or misuse and / or may depend and / or in any case may be attributable to RAPID device, except in the case that those events may be attributable to Dimsport for wilful misconduct or gross negligence. The foregoing limitations and exclusions shall be applied to the maximum extent permitted by legislation in force in the User's jurisdiction.

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