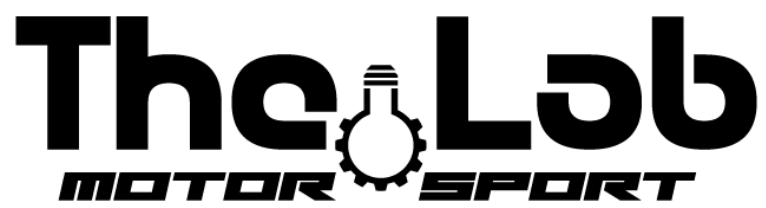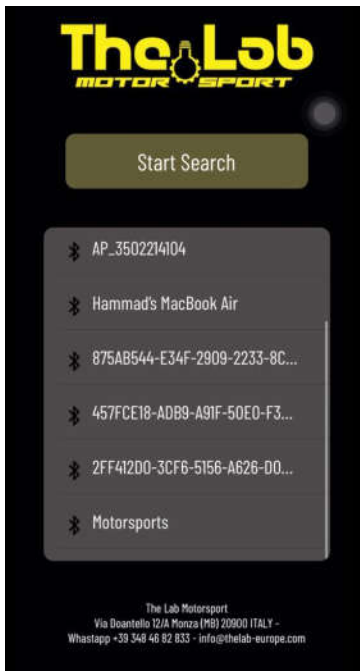**User manual**
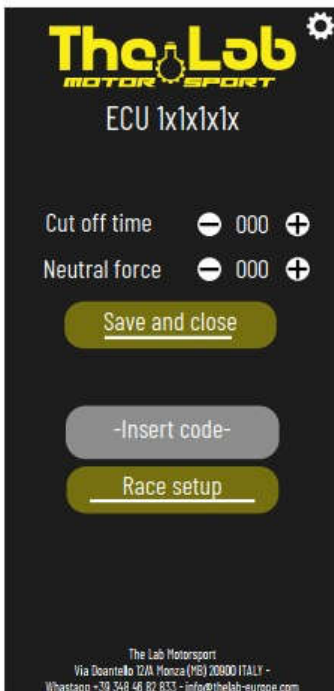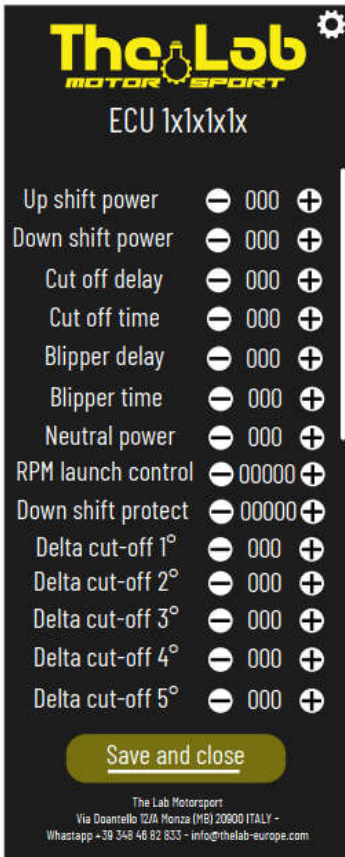
THE LAB MOTORSPORT 2.0 APP

Open the "PLAY STORE" or the "APPLE STORE" and install the APP "THE LAB MOTORSPORT 2.0"

1) Turn on bluetooth from your device settings
2) Connect the battery to power the ECU
3) Open the APP The Lab Motorsport 2.0
4) Press the "START SEARCH" button
5) Your ECU will be displayed in the box below
6) Press the ECU name

7) This screen now displays the two base values stored on the ECU
8) You can change the values by pressing the "+" and "-" buttons
9) After changing the values press the "SAVE" button to save the new values in the ECU
10) A confirmation message will be displayed
11) If you have purchased the version "RACE", "FAST", "AIR" or "LEGEND" you will find in the package a unique and personal code to access the advanced functions
12) Enter the code in the box "INSERT CODE" and press on the button "RACE SETUP"

ECU 1x1x1x1x

Up shift power	⊖ 000 ⊕
Down shift power	⊖ 000 ⊕
Cut off delay	⊖ 000 ⊕
Cut off time	⊖ 000 ⊕
Blipper delay	⊖ 000 ⊕
Blipper time	⊖ 000 ⊕
Neutral power	⊖ 000 ⊕
RPM launch control	⊖ 00000 ⊕
Down shift protect	⊖ 00000 ⊕
Delta cut-off 1°	⊖ 000 ⊕
Delta cut-off 2°	⊖ 000 ⊕
Delta cut-off 3°	⊖ 000 ⊕
Delta cut-off 4°	⊖ 000 ⊕
Delta cut-off 5°	⊖ 000 ⊕

Save and close

The Lab Motorsport
Via Doantello 12/A Monza (MB) 20900 ITALY -
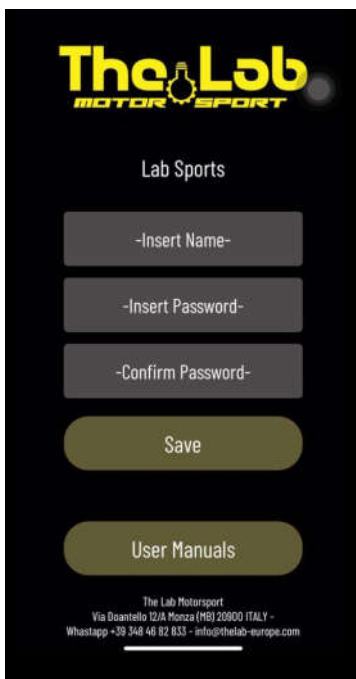Whastapp +39 348 46 82 833 - info@thelab-europe.com

13) This screen is shown if you have a code to unlock the advanced features

14) Here you can see all the variables that can be changed and are currently set in your ECU

15) You can change the values by pressing the "+" and "-" buttons and then saving them by pressing the "SAVE" button

16) To disable the scaling protection function set the value "DOWN SHIFT PROTECT" to 20000

17) To disable the assisted start function set the value "RPM LAUNCH CONTROL" to 20000

Lab Sports

-Insert Name-

-Insert Password-

-Confirm Password-

Save

User Manuals

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18) By pressing on any screen the gear in the upper right you can access the settings

19) You can change the name of your ECU by entering the new one in the box under "INSERT NAME"

20) You can set a password by entering it in the box under "INSERT PASSWORD"

21) Press the "SAVE" button to save the new parameters

22) By pressing the "USER MANUALS" button you can access all the manuals

Nome in APP	ENG	
Up shift power		Actuator force to increase gear: It can be increased up to 165 with steps from 5 in case sometimes the gear is not engaged. Don't go below 150. Keep this value as low as possible.
Down shift power		Actuator force to decrease gear: It can be increased up to 160 with steps from 5 in case sometimes the gear is not engaged. Do not drop below 130. Keep this value as low as possible.
Cut off delay		It represents the time between the pressure of the paddle to move up and the moment when the current of the coils is cut. The value can oscillate from 10 to 50. Increasing the value will move the cut to the moment with more force of the actuator.
Cut off time		Duration of the current cut. The higher the value, the easier it will be to insert the upper gear. The recommended value is between 45 and 100 (1 out->2 out).
Blipper delay		The time between the pressure of the paddle to move up and the moment the blipper is activated. The value can fluctuate from 10 to 45. Increase the value in case the accelerator stroke occurs too early.
Blipper time		The duration of the accelerator stroke. Increase the value if you feel an excessive engine brake, decrease it if you feel a forward thrust in braking. The suggested value is between 40 and 100.
Neutral power		Force to enter the neutral (if it is between first and second gear). Move to the first gear and keep the left paddle remunerated for a second: If it remains in the first increase the value, and if it passes in the second gear decrease the value.
RPM launch control		Value in RPM to which the limiter is inserted during launch control. To activate the launch control move to the first gear, press the left paddle and hold it for 2 seconds. It will automatically turn off when the right paddle is pressed to insert the second.
Down shift protect		RPM value above which the gear shift is disabled to prevent engine overspeed. To disable it enter the value at 20'000 RPM.
Delta cut-off 1°		Cut-off increasing to pass up to gear 2
Delta cut-off 2°		Cut-off increasing to pass up to gear 3
Delta cut-off 3°		Cut-off increasing to pass up to gear 4
Delta cut-off 4°		Cut-off increasing to pass up to gear 5
Delta cut-off 5°		Cut-off increasing to pass up to gear 6
V01	V01	To not use
V02	V02	To not use

Nome in APP	Standard SPORT	Standard RACE	Standard LEGEND/FAST	Standard AIR
Up shift power	125	135	165	175
Down shift power	120	125	155	170
Cut off delay	10	10	40	40
Cut off time	55	48	50	58
Blipper delay	0	15	25	25
Blipper time	0	60	40 se 4 cylinder 70 se 3 cilynder	40 mechanic gas 70 electronic gas
Neutral power	13	13	13	13
RPM launch control	20000	20000	20000	20000
Down shift protect	20000	20000	20000	20000
Delta cut-off 1°	0	0	50	50
Delta cut-off 2°	0	0	0	0
Delta cut-off 3°	0	0	0	0
Delta cut-off 4°	0	0	0	0
Delta cut-off 5°	0	0	0	0