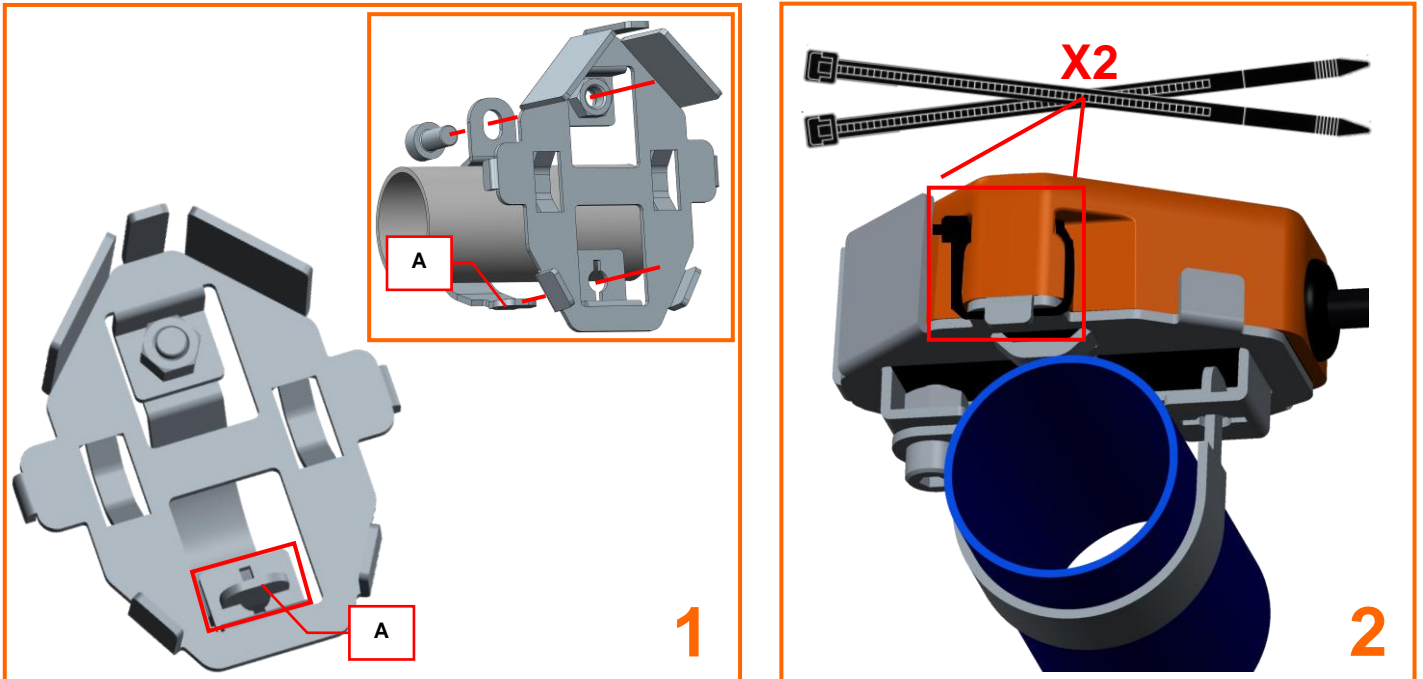|	Kit contents: LCGPA module, support bracket, Extension Loom*, MODE push-button*, instruction manual.

LC GPA : DO MORE...	
GPA MANAGEMENT	✔
LAUNCH CONTROL	✔
SHIFT LIGHT	✔
OVERHEATING INDICATOR	✔

* **depending on bike application**
* ***depending on bike application – if not supplied, the LCGPA will work with the OEM push-button**

LC GPA INSTALLATION (HANDLEBAR EXAMPLE)

1 **2**

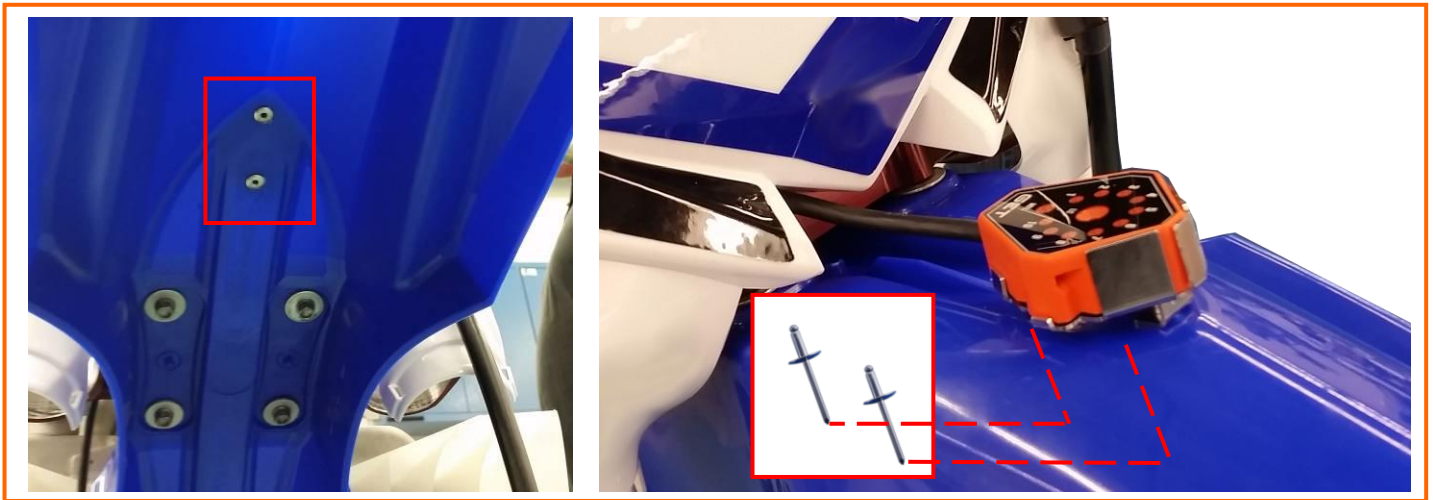|	1 - Assemble the support bracket as shown in picture. Choose the appropriate half-washer retainer (based on the handlebar size). **WARNING:** the half-washer tail (marked **A**)must pass through the **LC GPA** support slot, then fix all to the handlebar.
	2 - Fix both sides of **LCGPA** by using tie-wraps.

GET ATHENA

🇬🇧	**3 –** Fix **MODE** push-button (if supplied).

3

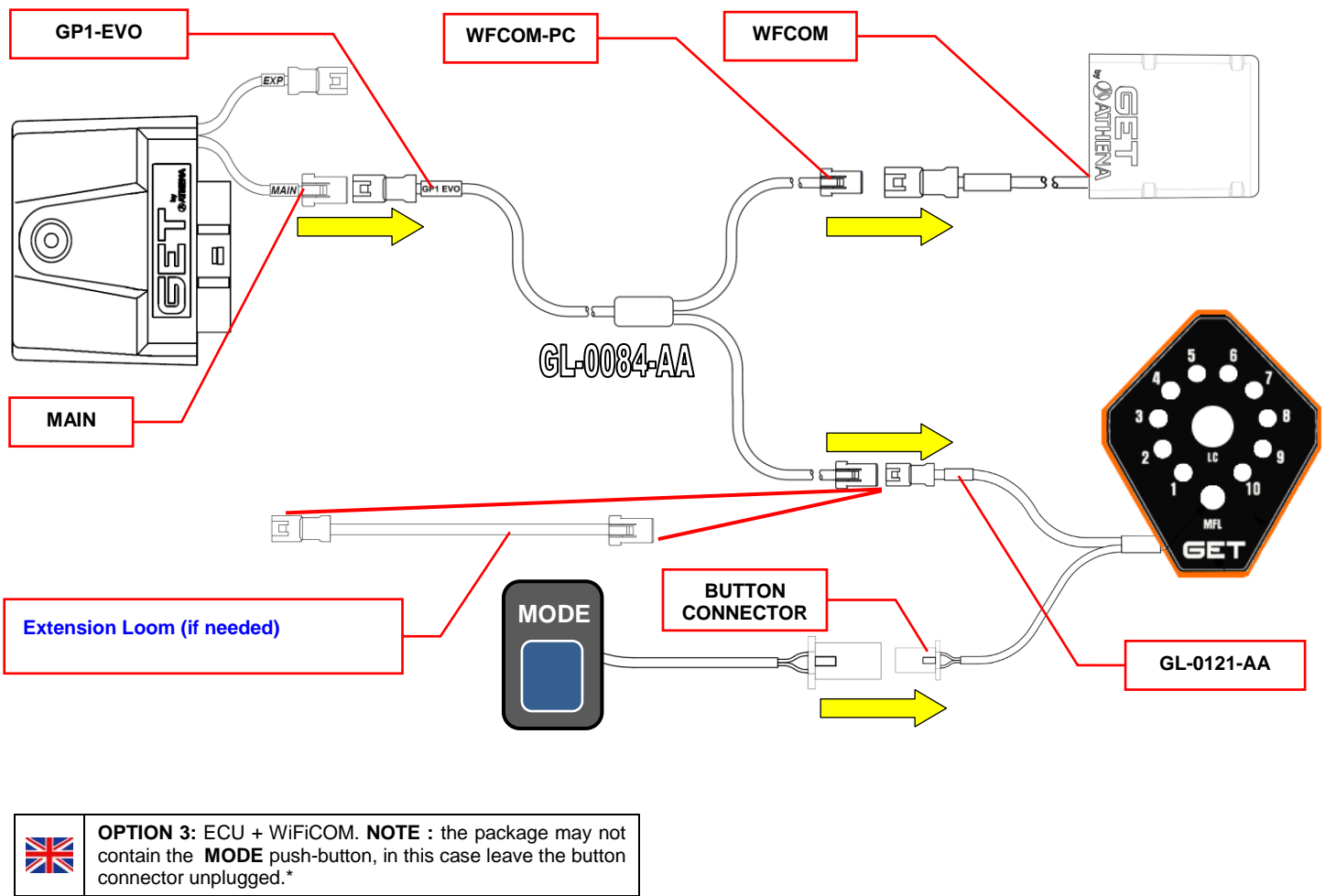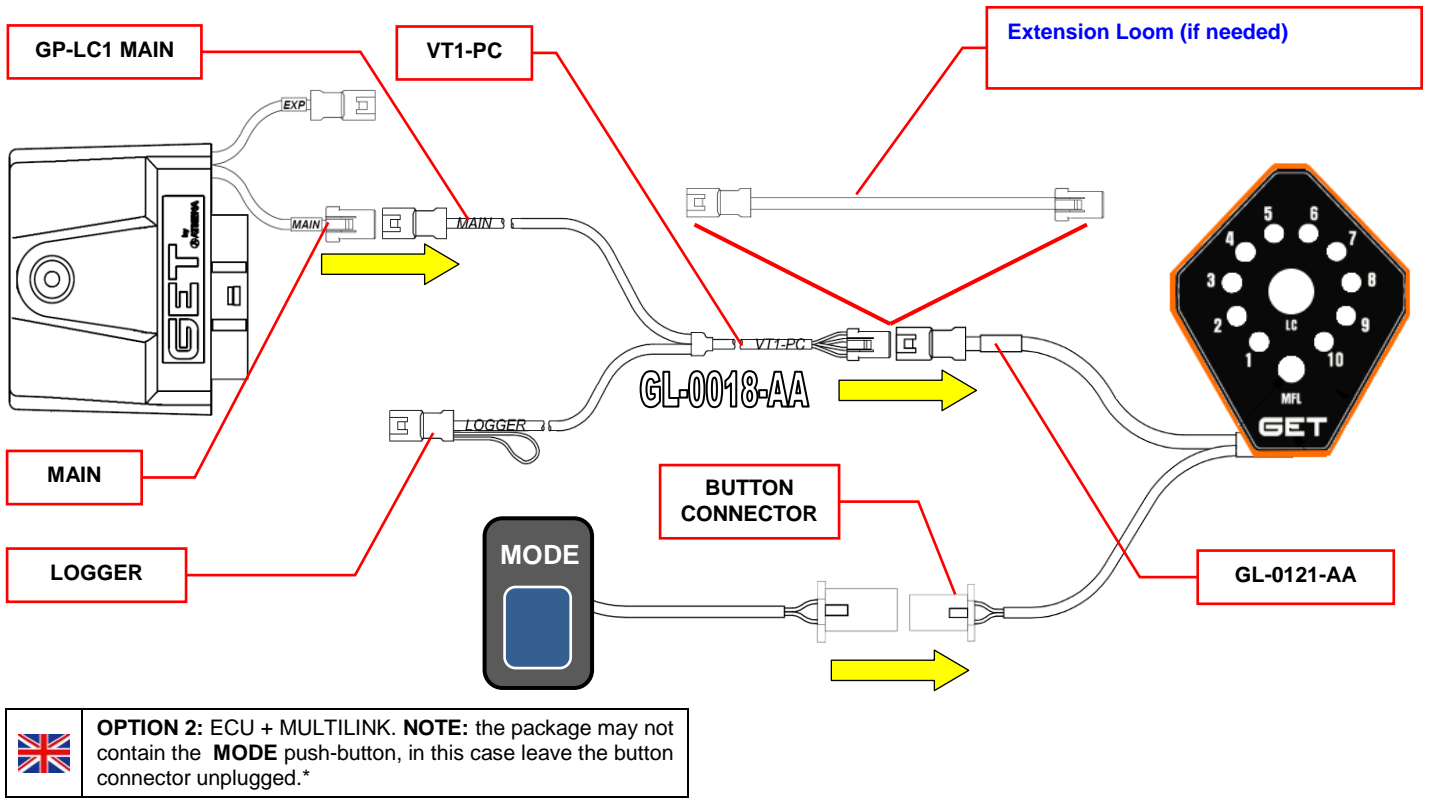🇬🇧 **LC GPA INSTALLATION (FRONT FENDER EXAMPLE)**

🇬🇧	**1 –** Fix the support bracket to the front fender by using two rivets **WARNING:** the rivets must be inserted in the fender as shown in picture .

🇬🇧 **ELECTRICAL CONNECTIONS**

MAIN

GL-0121-AA

EXP

MAIN

Extension Loom (if needed)

BUTTON CONNECTOR
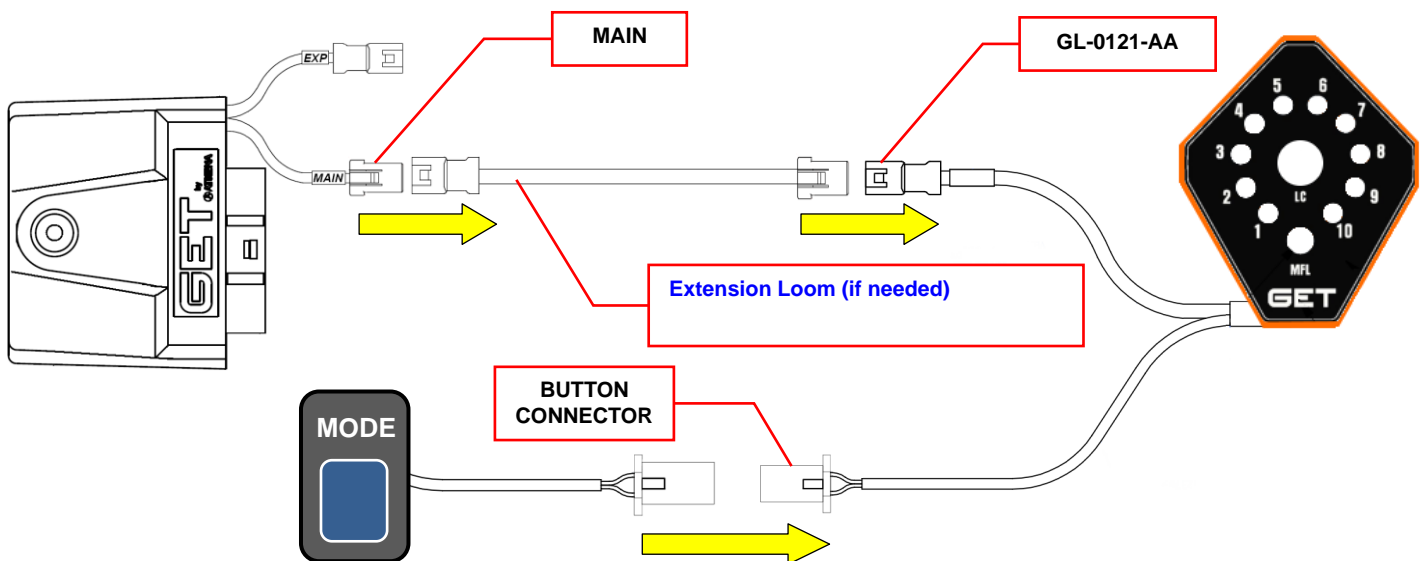
MODE

🇬🇧	**OPTION 1:** ECU DIRECT CONNECTION. **NOTE:** the package may not contain the **MODE** push-button, in this case leave the button connector unplugged.

GD-MIP-0026-AE

GET **ATHENA**

GP-LC1 MAIN

VT1-PC

Extension Loom (if needed)

MAIN

LOGGER

GL-0018-AA

MODE

BUTTON CONNECTOR

GL-0121-AA

OPTION 2: ECU + MULTILINK. **NOTE:** the package may not contain the **MODE** push-button, in this case leave the button connector unplugged.*

GP1-EVO

WFCOM-PC

WFCOM

MAIN

GL-0084-AA

Extension Loom (if needed)

MODE

BUTTON CONNECTOR

GL-0121-AA

OPTION 3: ECU + WiFiCOM. **NOTE :** the package may not contain the **MODE** push-button, in this case leave the button connector unplugged.*

* GL-0018-AA (Multilink cable) and GL-0084-AA are sold separately

GET **ATHENA**

LC GPA: STANDARD MODE

1 LED CHECK → GPA = 3

2 GPA = 3 & HI TEMP

3 SHIFT LIGHT — SHIFT !!!
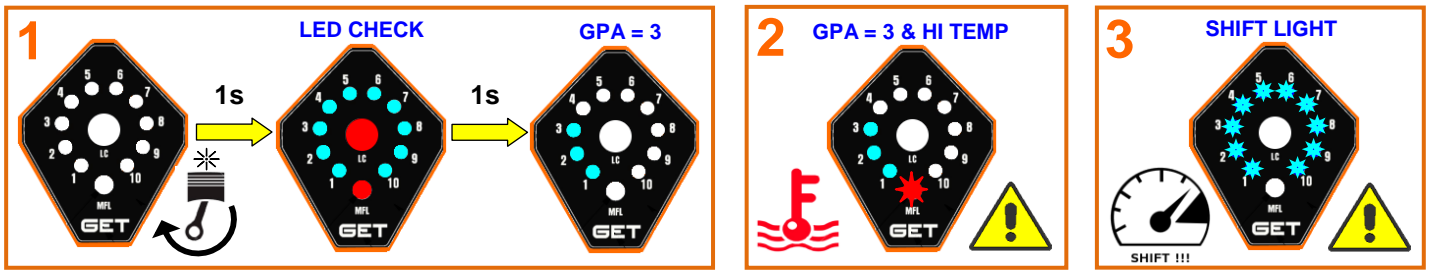
	1- Start the engine and wait for about 1 second, LEDs will turn on to show the current GPA level (e.g. fig. 1: GPA level is 3). **NOTE: if GPA is 0 no LED will come on**.
	2- If the engine temperature exceeds the alarm threshold* (**Hi Temp ON**) the **MFL** light will start blinking, it'll stop when temperature decrease under **Hi Temp OFF** threshold*.
	3- If the engine speed exceeds the gear shift threshold* LEDs **from 1 to 10** will start flashing

* thresholds are visible and editable only by Maya software (RX1EVO ECUs only)
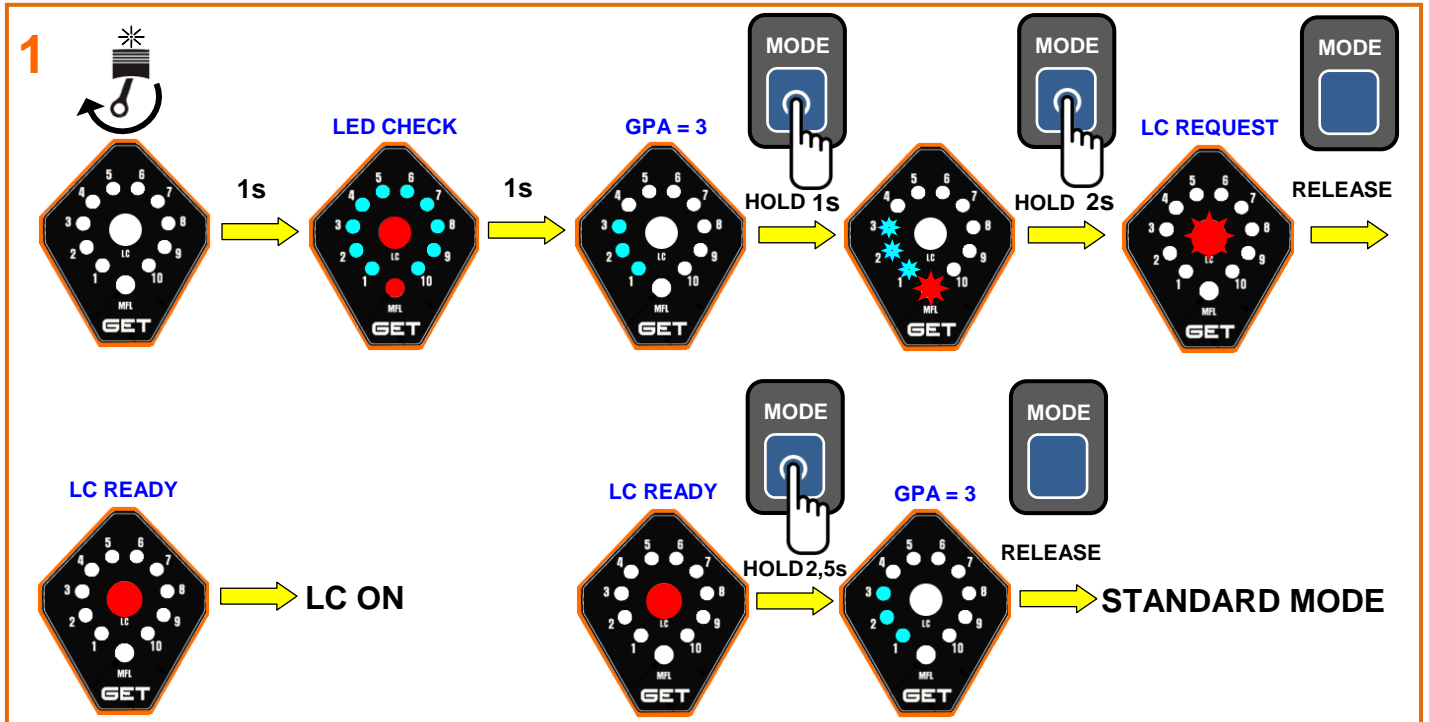
LC GPA: GPA MANAGER MODE

|	
	GPA MANAGER MODE: Set the desired GPA level by **LCGPA** module. **NOTE: to run the GPA MANAGER revolutions per minute must be less than 8000 rpm and throttle position must be under 10 %.**

1 LED CHECK → GPA = 3 → HOLD 1s → RELEASE → PRESS TO SET

MODE → RELEASE 2,5s → GPA = 4 → END
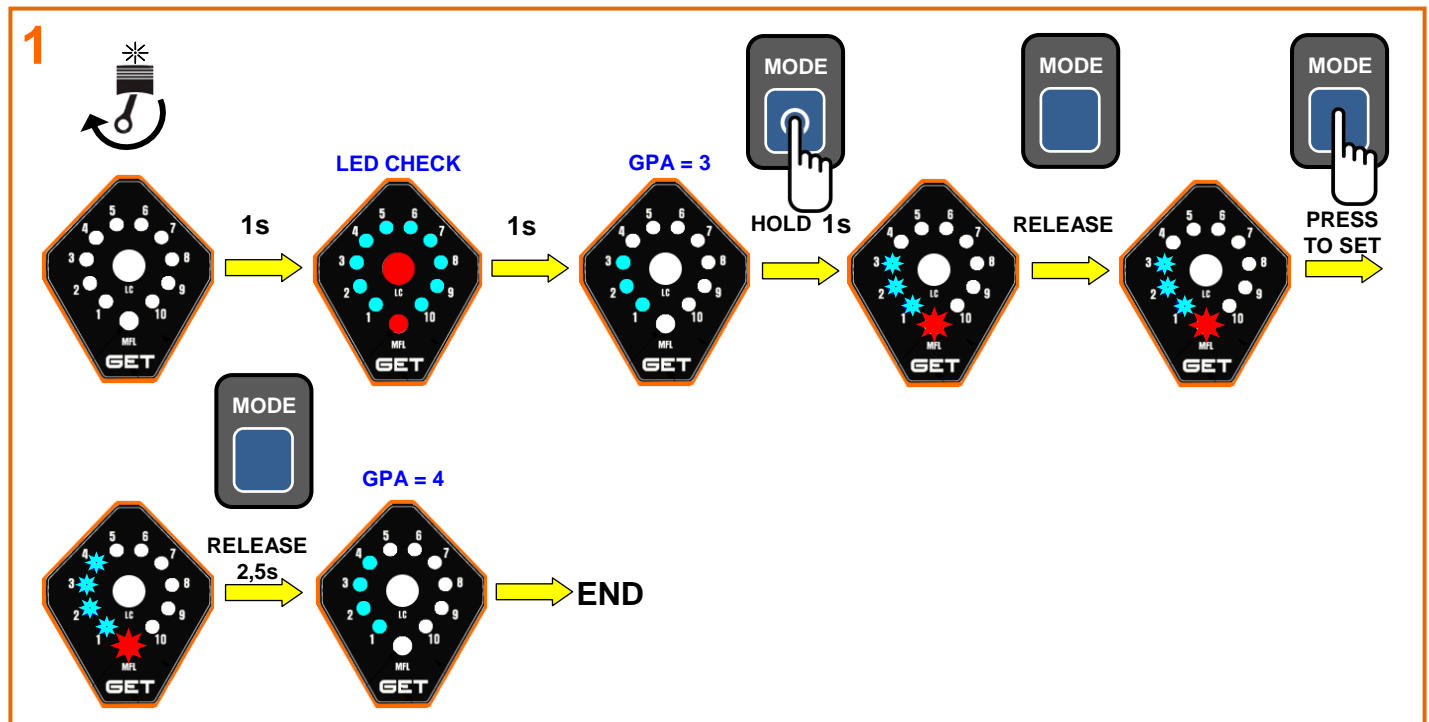
	1: Start the engine and wait until **LCGPA** LEDs turn on. Press and hold **MODE** button for about 1 second: the LEDs start flashing. Release **MODE** button and press it briefly as many time as it is necessary to achieve the desired GPA level. To stop the **GPA MANAGEMENT MODE**: release **MODE** button. After about **2,5** seconds LCGPA will be back in **STANDARD MODE**. **NOTE: during GPA MANAGEMENT MODE, MFL light ON means GPA LEVEL = 0**.

GET **ATHENA**

🇬🇧 LC GPA: LC (LAUNCH CONTROL) MODE

🇬🇧 **LC (LAUNCH CONTROL) MODE:** how to activate the launch control assistant. **NOTE: to run the GPA MANAGER revolutions per minute must be less than 8000 rpm and throttle position must be under 10 %.**

1

LED CHECK — 1s — GPA = 3 — MODE HOLD 1s — MODE HOLD 2s — LC REQUEST — MODE RELEASE

LC READY → LC ON

LC READY — MODE HOLD 2,5s — GPA = 3 — MODE RELEASE → STANDARD MODE

🇬🇧 **1:** Start the engine and wait until **LCGPA** LEDs come on. Press and hold **MODE** button: when LEDs start flashing, keep holding the button until the **LC** LED starts flashing (the other LEDs will switch off): in this moment the **LCGPA** is sending an **LC** activation request to the ECU.
Release **MODE** button: the **LC** stops flashing and remains **ON**.
Now the LC strategy is activated, to turn it off press and hold MODE button for at least 2,5 seconds then release it: STANDARD MODE will be activated.

2 RPM LOW

3 RPM OK

4 RPM HI
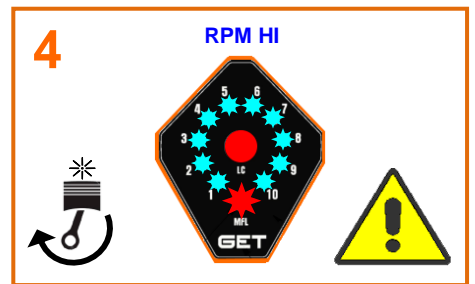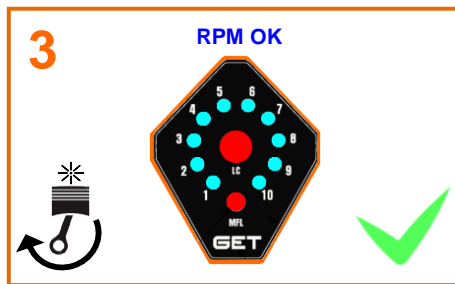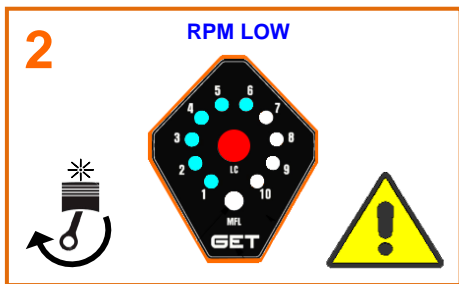
🇬🇧 **2- LOW RPM LEVEL:** some LEDs are off, increase RPM to achieve the right starting condition (picture 4).

3- CORRECT RPM LEVEL: all LEDs are on, you are in the correct RPM range.

4- HIGH RPM LEVEL: all LEDs are blinking, decrease the RPM to come back to correct RPM level (picture 4).

GET 🔴 **ATHENA**

5 | START LINE | AFTER START | TPS < 30%

5: After crossing the start line all LEDs will be off (except for the **LC** one). When throttle valve position drop-off under 30% the **LCGPA** will automatically switch to **STANDARD MODE**.

LC GPA: FACTORY THRESHOLD VALUES

The table below shows the **LCGPA** factory threshold LEDs values based on application.

2016 Bike	LC Limiter Threshold	Hi Temp ON (set alarm)	Hi Temp OFF (reset alarm)	Shift Light	LCGPA MODE
HONDA CRF 250	OEM LIMITER -1500 rpm	> 100°C (> 212°F)	< 95°C (< 203°F)	OEM LIMITER - 750	TRAINING
HONDA CRF 450	OEM LIMITER -1500 rpm	> 100°C (> 212°F)	< 95°C (< 203°F)	OEM LIMITER - 750	TRAINING
HUSQVARNA FC 250	OEM LIMITER -1500 rpm	> 100°C (> 212°F)	< 95°C (< 203°F)	OEM LIMITER - 750	TRAINING
HUSQVARNA FC 350	OEM LIMITER -1500 rpm	> 100°C (> 212°F)	< 95°C (< 203°F)	OEM LIMITER - 750	TRAINING
HUSQVARNA FC 450	OEM LIMITER -1500 rpm	> 100°C (> 212°F)	< 95°C (< 203°F)	OEM LIMITER - 750	TRAINING
KAWASAKI KXF 250	OEM LIMITER -1500 rpm	> 100°C (> 212°F)	< 95°C (< 203°F)	OEM LIMITER - 750	TRAINING
KAWASAKI KXF 450	OEM LIMITER -1500 rpm	> 100°C (> 212°F)	< 95°C (< 203°F)	OEM LIMITER - 750	TRAINING
KTM SXF 250	OEM LIMITER -1500 rpm	> 100°C (> 212°F)	< 95°C (< 203°F)	OEM LIMITER - 750	TRAINING
KTM SXF 350	OEM LIMITER -1500 rpm	> 100°C (> 212°F)	< 95°C (< 203°F)	OEM LIMITER - 750	TRAINING
KTM SXF 450	OEM LIMITER -1500 rpm	> 100°C (> 212°F)	< 95°C (< 203°F)	OEM LIMITER - 750	TRAINING
SUZUKI RMZ 250	OEM LIMITER -1500 rpm	> 100°C (> 212°F)	< 95°C (< 203°F)	OEM LIMITER - 750	TRAINING
YAMAHA YZF 250	OEM LIMITER -1500 rpm	> 100°C (> 212°F)	< 95°C (< 203°F)	OEM LIMITER - 750	TRAINING
YAMAHA YZF 450	OEM LIMITER -1500 rpm	> 100°C (> 212°F)	< 95°C (< 203°F)	OEM LIMITER - 750	TRAINING

Users can manage thresholds for all **RX1EVO** ECUs by running MAYA software under ADVANCE license.

LC GPA: ECU COMPATIBILITY

LC GPA : works only with...
RX1EVO - ECUs models (2016 on)
RX1PWR - ECUs models (2016 on)

GET ATHENA

LC GPA: THRESHOLD VALUES MANAGEMENT (REQUIRES MAYA ADVANCE)

Manage **LCGPA** functions behavior by editing ECU Maps (requires MAYA ADVANCE) based on table below.

Function :	ECU:	ENVOLVED MAP SCALARS (Maya Map scalar name)	FORMULA	EXAMPLE	
				SCALAR VALUE	RESULT
LC Limiter	RX1EVO from 2016	LIMITER	LC Limiter = LIMITER -1500	LIMITER = 13400 ;	LC LIMITER = 11900 rpm
Hi Temp ON (set alarm)	RX1EVO from 2016	FAN_ON	Hi Temp ON = FAN_ON	FAN_ON = 100	Hi TEMP ON = 100°C
Hi Temp OFF (reset alarm)	RX1EVO from 2016	FAN_OFF	Hi Temp OFF = FAN_OFF	FAN_OFF = 95	Hi_TEMP_OFF = 95°C
Shift Light	RX1EVO from 2016	GEAR_SHIFT_RPM	Shift Light = GEAR_SHIFT_RPM	GEAR_SHIFT_RPM = 12650	Shift Light ON = 12650 rpm
LCGPA MODE	RX1EVO from 2016	LC_MODE_RACE_0_TRAINIG_1 *	-	LC_MODE = 0	Race Mode: temp. alarm and shift light are disabled
				LC_MODE = 1	Training Mode: temp. alarm and shift light are enabled
LC Level Map 1	RX1EVO from 2017	LC_1*	-	LC_1 = from 0 to 20	MAP1 Launch control level. 0 = LC OFF ... 20 = LC MAX. level
LC Level Map 2	RX1EVO from 2017	LC_2*	-	LC_2 = from 0 to 20	MAP2 Launch control level. 0 = LC OFF ... 20 = LC MAX. level
LED intensity	RX1EVO from 2017	LED_LEVEL_0_HIGH_1_LOW *	-	LED_LEVEL_0_HIGH_1_LOW = 0	LCGPA LED max. intensity
				LED_LEVEL_0_HIGH_1_LOW = 1	LCGPA LED min. intensity

* End Of Line parameter

WARNING

	• **RACE USE ONLY POWER KIT !!!**
	• **Follow the instructions described in this manual to prevent vehicle damages or loss of warranty**
	• **Don't change or modify the parts supplied by GET - Athena**
	• **Connect only to compatible ECUs**
	• **Execute the installation when the engine is cold**
	• **During installation avoid that any part installed interferes with hot engine parts, driving parts or with the driver**
	• **No high-pressure washer**

LC-GPA

The technology that made our riders world champion is finally available on the market!!!

LC-GPA is the newly Launch Control system developed by GET Engineers together with the top teams all around the world!

Thanks to the new GET ECU generation, the RX1 processor, this LC-GPA is extremely precise and works totally differently compared to the common OE systems; it guides you to the perfect RPM range to get the best start out of your machine (depending if 250 or 450) thanks to its very bright led that is made to be a kind of RPM dashboard.

Those led are also used as GPA level indicator as soon as the LC system has been disabled and can be easily adjusted by using the standard MAP/LC selector or the MODE-LC button (see page 17).

DESTROY THE START AND GET THE HOLESHOT!