

**QUICK
START
GUIDE**

AStrO

Ver.10.309

Toll Free : 1 (877) 462-7296
Visit : www.Alfano-usa.com

Thank you for purchasing the latest in data acquisition technology, the AStrO. We hope that it surpasses your expectations. This is the Quick Start Manual for the **AStrO**, please take a few minutes to acquaint yourself with the features this product offers you. We have tried to make the manual as user friendly as possible, making it easy for you to input data. As we are always striving for excellence in our products, we welcome your feedback and comments on this product, guide or any of our other products. Satisfied customers are our business. Look for new innovations to come in the future. Happy Racing!

Note:

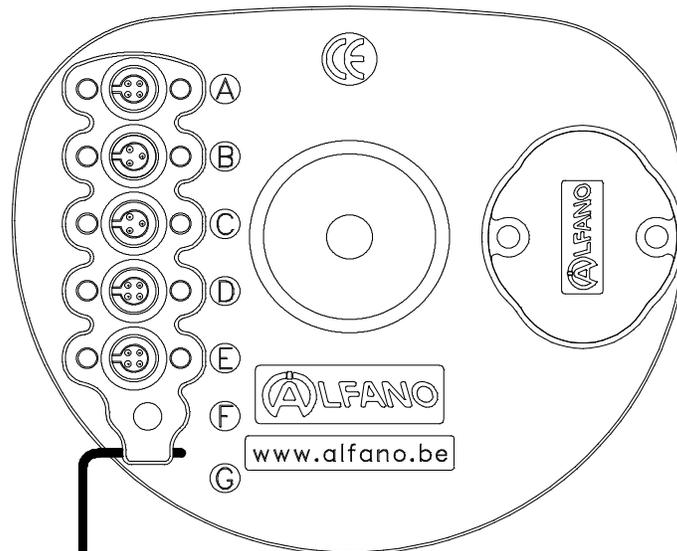
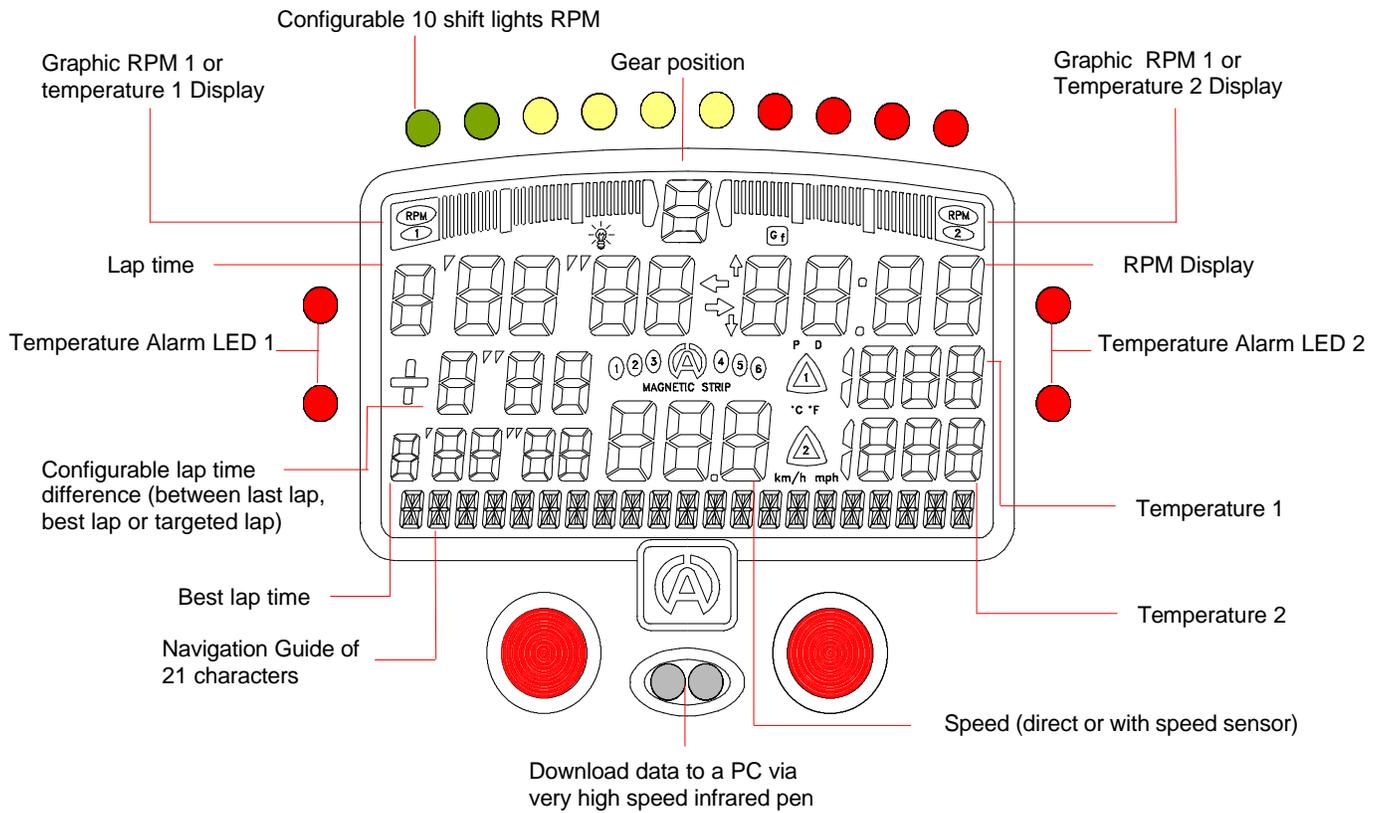
If you require a detailed manual, please see AstrO's user manual in our web site

ALFANO DATA ACQUISITION Inc.

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Display

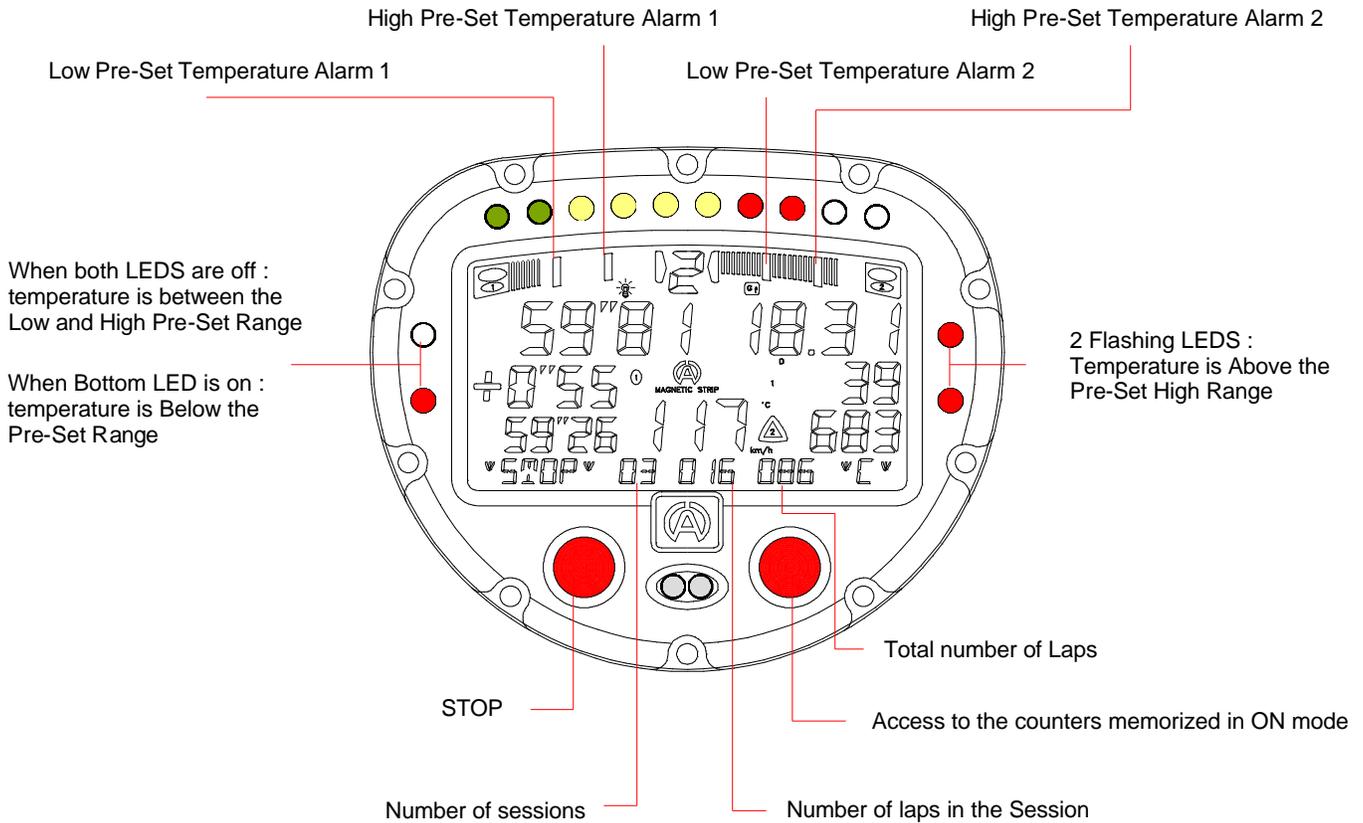


A	G-Force sensor for track mapping
B	Temperatures 1 inputs "NTC" type, thermocouple "K" type (EGT, CHT, WT,...)
C	Temperatures 2 inputs "NTC" type, thermocouple "K" type (EGT, CHT, WT,...)
D	Magnetic or infrared receiver (for lap times)
E	Speed sensor
F	RPM direct connection (for low powered ignition)
G	RPM sensor

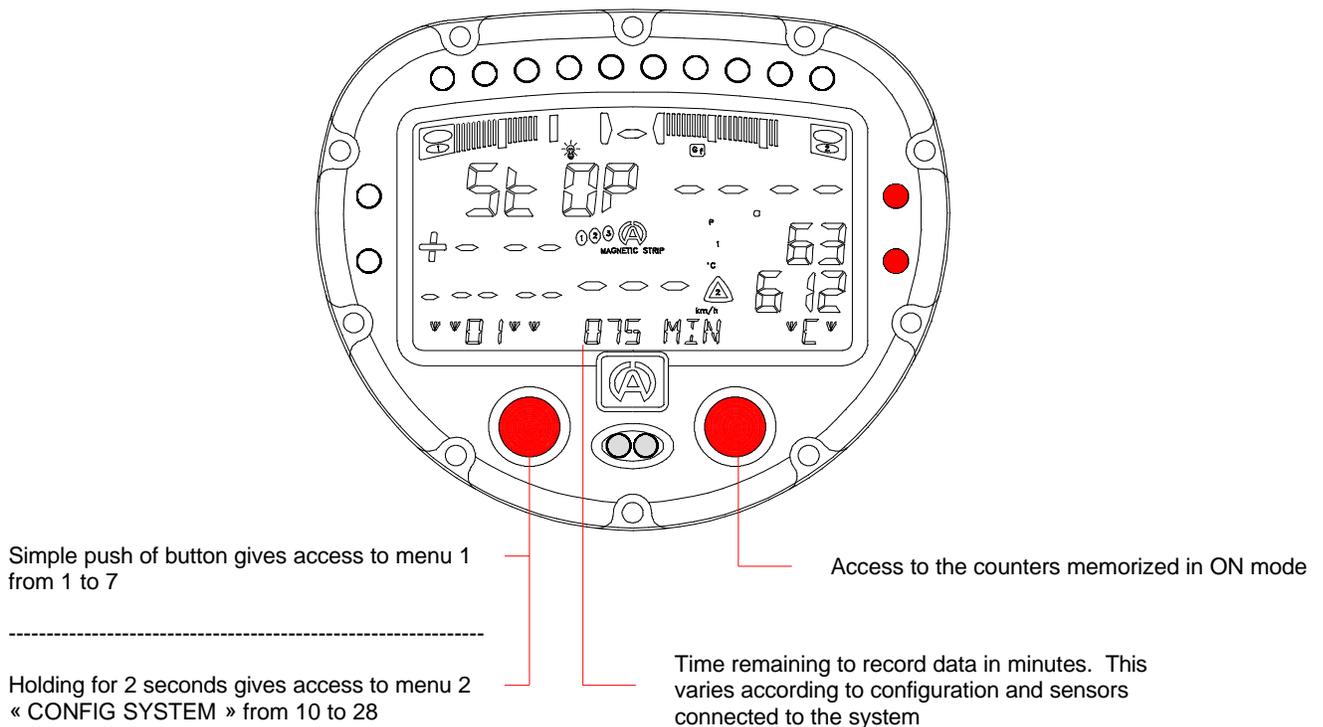
ATTENTION

**Attach connectors only with type TX20 screwdriver, provided.
Do not overtighten the connectors.**

START



STOP



BEFORE BEGINNING TO START YOUR RECORDING GO TO CONFIGURATION MENUS (Page 8 OF THIS MANUAL)

TO START; PRESS BOTH BUTTON AND HOLD 3 sec

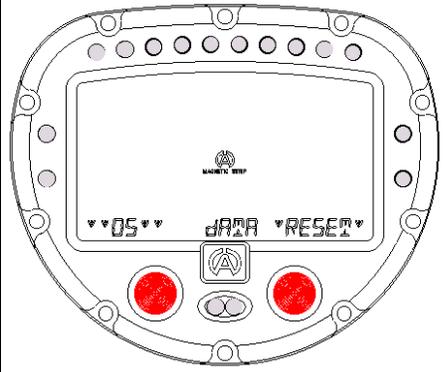
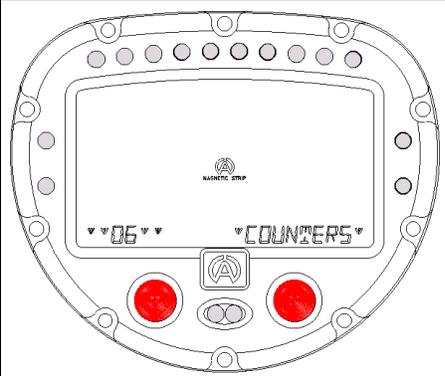
To scroll through the menus: press briefly the **left button**.

To make your selection from one of the menus: press the **right button**. From **STOP Mode**, (The screen w/the STOP icon) if you hold the **left button** for more than 2 seconds you will be in **Configuration Mode**.

From any screen: if you hold the **left button** for more than 2 seconds, it will bring you back to **Stop Mode**. Also, If you delay too long on a certain screen, it will bring you automatically back to **Stop Mode**, .

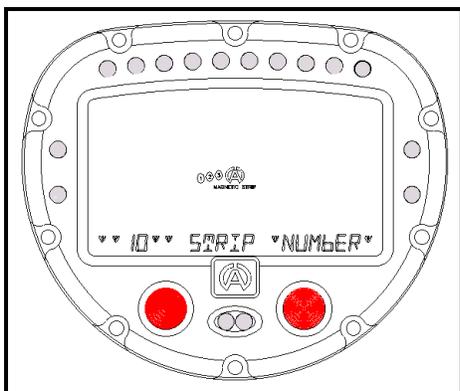
	<p>TO START RECORDING</p> <p>This is the main menu for the AStrO. "174": Time in minutes available to record data. "C": Choice that was made between Celcius over Fahrenheit (C° or F°). "D": Dynamic mode over Peak Delay (D or P). "(1), (2)": Number of strips or beacons at that track. "Km/h": Choice that was made between Metric or Imperial (mph). "C": (on the right bottom of screen) tells you to press right button to get into the counters. Press the left button to pass to the next menu.</p>
	<p>TO TURN OFF</p> <p>Pressing the right button will manually turn off the unit.</p>
	<p>TO REVIEW MAXIMUMS ONLY</p> <p>If on this menu you read "No Maximum", it means you have no data in memory. When data has been stored, pressing the right button will bring you to the Maximum RPM, Speed, Gear, Temp 1, Temp 2, combining all the laps and best of all laps. Press the left button to pass to the next menu.</p>

<p>The dashboard display shows 'NO BEST LAP' in the center. At the bottom, there are two red buttons and a central button with a triangle icon.</p>	<p>TO REVIEW BEST LAP TIME</p> <p>"No Best Lap" means you do not have any lap data in your system. If you see "Best Lap" then by pressing the right button it will bring you to your "BestLap". Wait for "EXIT" & "VIEW" which will flash every 4 seconds. With the right button you choose "VIEW" to be able to playback your lap. Arrows up & down will allow you to go back and forth. Wait for "EXIT" to get out of this menu. Press the left button to pass to the next menu.</p>
<p>The dashboard display shows 'RECALL' in the center. At the bottom, there are two red buttons and a central button with a triangle icon.</p>	<p>DATA REVIEW or RECALL</p> <p>Press the right button and select to review your laps</p>
<p>The dashboard display shows lap data: '10'82 12.45' at the top, a temperature gauge '12' in the middle, and '01 009 009' at the bottom. At the bottom, there are two red buttons and a central button with a triangle icon.</p>	<p>DATA REAL TIME PLAY BACK SCREEN 2</p> <p>The unit will position itself at your last lap (ie: in this case 9 of 9) Pressing left button (left arrow) will bring you to the previous lap. Pressing right button(right arrow) will bring you to the next lap.(in this case you cannot choose, as you are already at the last lap)</p>
<p>The dashboard display shows 'EXIT' and 'VIEW' at the bottom. At the bottom, there are two red buttons and a central button with a triangle icon.</p>	<p>DATA REAL TIME PLAY BACK SCREEN 3</p> <p>On a chosen lap, wait a few seconds for "VIEW", press the right button and you will be able to playback (with the right button to go up left to go down) that particular lap. If you hit the left button when you see "EXIT", using the right button or left button you will be able to choose an other lap to playback. When you have finished wait for "EXIT" and press the left button and wait to see "EXIT" again to press the left button . Press the left button to pass to the next menu.</p>

	<p>TO CLEAR RECORDED DATA</p> <p>This screen will allow you to erase, by pressing the right button, all your data except the counters and configuration settings. (It will ask for a confirmation which will be input with the right button) Press the left button to pass to the next menu.</p>
	<p>DIFFERENT DATA COUNTERS</p> <p>Tip: For some counters your vehicle must be in motion (speed needed) Counters 1-2-3: (Time) Accumulate your engine's running time in Start Mode (motion required). Counters 4-5-6: (RPM Time) Accumulate your engine's running time. Counters 7-8: (Miles) Accumulate distance traveled (in motion) Pressing the right button will bring you to the 1st counter. Pressing the left button will switch from counter "OFF", "ON" or "RESET". Press the right button to pass to the next counter (until you reach a counter on which you want to record). Press the left button to pass to the next menu.</p>

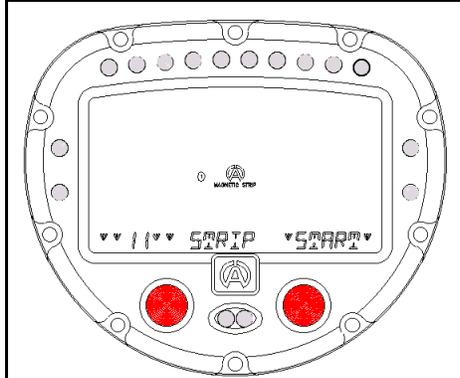
Please download EGT, SPEED, G-Force Sensors Installation Guides from our web Site: www.Alfano-usa.com

CONFIGURATION MENUS (10-28) :TO ACCES CONFIGURATION MENUS; AT STOP MODE HOLD THE LEFT BUTTON 3 sec



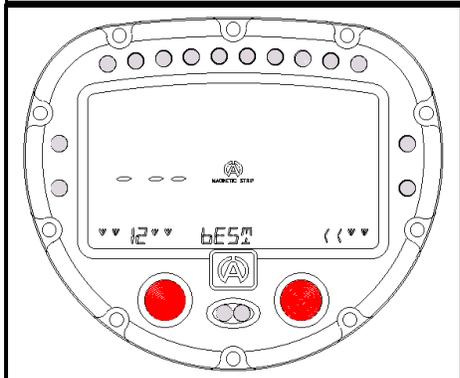
NUMBER of MAGNETIC STRIPS or BEACONS

Press the **right button** to choose the number of strips or beacons that are on the track.
(most tracks have less than 3 strips).
Press the **left button** to pass to the next menu.



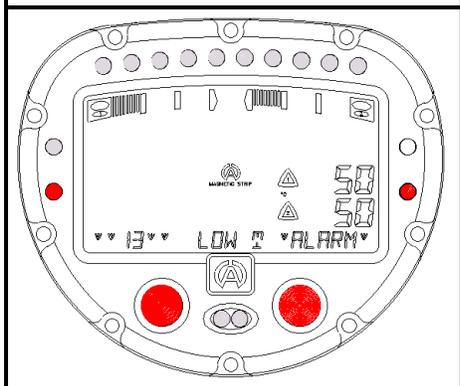
STARTING MAGNETIC STRIP or BEACON

Press the **right button** to choose on which strip or beacon you want to start timing.
Press the **left button** to pass to the next menu.



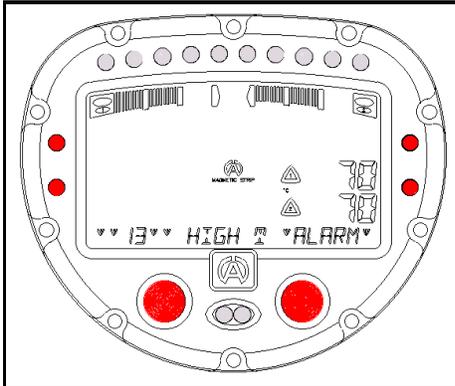
DIFFERENTIAL w/BEST ,LAST or TARGETED LAP

Press the **right button** to choose if you want to compare your current lap time to **“best lap”** time, **“previous”** lap time or a **“targeted”** lap time.
Press **left button** to set.
In the case of a targeted lap time, you will need to wait for **the arrows up or down** in order to set a reference lap time, using the **right button**.
Wait for **“EXIT”** to be on, press **left button** to set.
Press the **left button** to pass to the next menu.



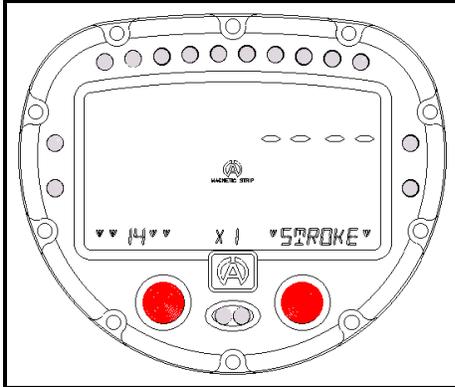
LOW / HIGH TEMPERATURE ALARM

Tip: Prior to this configuration go to Menu 22 and choose between **“Celsius”** or **“Fahrenheit”**.
Press the **right button** to choose your low temperature target for Temp 1 (wait for **arrows up or down**), press the **left button** to set .



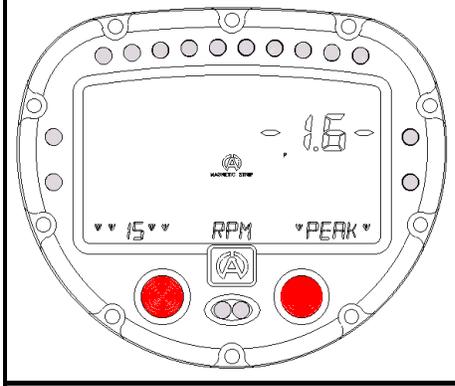
LOW / HIGH TEMPERATURE ALARM (Continue)

Then that will bring you to your high temperature target for Temp 1. Using the **right button** you will now set the high Temp target for Temp 1.
Left button sets and brings you to low temperature setting for Temp 2. Repeat same steps
Press the **left button** to pass to the next menu.
Tip: During practice you should have your 1st alarm LED on until you pass your low temp then both LEDs flash when you reach your max. temp.



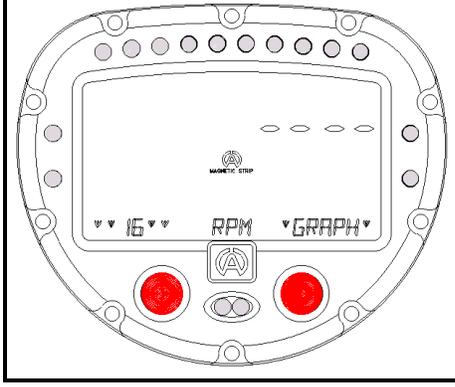
ENGINE CYCLE for RPM READING

Press the **right button** to choose the number of strokes (Tip: for karts 2 cycle ignition or 4 cycle Briggs & Honda's always use x 1)
Press the **left button** to pass to the next menu.



DISPLAY TIME DELAY

By pressing the **right button**, this feature allows the driver a delay, giving him time, while driving, to watch the RPM peak. He can choose between 0.4 and 4.4. With increments of 0.4 .
At 0.4 there is no delay, you will be on dynamic mode.
By increasing the increments it allows him greater time to see his peak data.
Press the **left button** to pass to the next menu.



SHIFT LIGHTS

Press the **right button** to choose the first LED (wait for **arrows up and down**), choose the desired RPM, press the **left button** to set. This brings you to the next LED .
Repeat same steps for each LED .
Press the **left button** to pass to the next menu.

	<p>SPEED</p> <p>**Prior to this configuration, go to Menu 23 and choose either metric (cm) or Imperial (inches) measurements. Press the right button to start speed configuration and press again the right button to choose if you are using a sensor or not. Press the left button to set and pass to the next menu.</p>
	<p>SPEED WITHOUT SENSOR (For Direct Drive)</p> <p>If you have chosen without sensor, pressing the right button will allow you to enter the tire's size (wheel circumference) wait for the arrows up and down, and set with left button. Next set the number of teeth on small sprocket using right button and with arrows up and down, set again with left button. Finally, using the right button set the gear size of the rear axle (number of teeth), and left button sets & passes to next menu.</p>
	<p>SPEED w/SPEED SENSOR (For Vehicle w/Clutch)</p> <p>If you are using a speed sensor, you will be using the "ON" sensor menu. Tip: when sensors face magnets, 2 green LEDs from shift light are on. Use right button to set sensor "ON" Press the left button to enable entering of data</p>
	<p>SPEED</p> <p>Press the right button to enter the tire size (wheel circumference) (wait arrows up or down). Press the left button to set and pass to the next menu.</p>

	<p>PITS SPEED LIMIT ALARM</p> <p>Press the right button and wait for the arrows up and down, to set your speed limit alarm. Press the left button to set and pass to the next menu. Tip: When driving and entering the pits, press the right button, then left button to view your speed. If your speed is OVER your preset speed limit, your UPPER LEDS will flash. Press the left button to leave this menu.</p>
	<p>GEAR POSITION (NUMBER OF GEARS)</p> <p>For this configuration: 1/ You will need RPM & speed sensors as your gear position is calculated from a ratio of speed to RPM 2/ <u>Your engine must be running and your wheels turning</u> (ie: Put your kart on a stand or drive your vehicle)</p>
	<p>GEAR POSITION (NUMBER OF GEARS)</p> <p>Press the right button to choose the number of gears on your engine and to set that number press left button.</p>
	<p>GEAR POSITION (TO SET EACH GEAR RATIO)</p> <p>Now you are in the configuration of your 1st gear. As soon as you reach a targeted RPM level (ie: 2500 RPM) and stabilize yourself at that level, press the right button, change to the next (2nd) gear and get to the same RPM level (ie:2500) stabilize & press the right button again. Repeat for all gears. When finished to accept the gear settings (at the menu "OK") press the left button or use the right button to begin again. Press the left button to set and pass to the next menu.</p>

	<p>BAR GRAPH</p> <p>Press the right button to choose to view the 2 bar graphs; As a display for both RPM , [½ RPM & ½ Temp] or [½ Temp 1 & ½ Temp 2] . Press the left button to set and pass to the next menu.</p>
	<p>DISPLAY MASK (ON / OFF)</p> <p>Press the right button, to choose masking (“OFF”) or not, for each line of data. To switch to the next line, press the left button. At the end of your selection press the left button to set and pass to the next menu. Tip: the data will remain in memory for further use but will not be displayed while driving</p>
	<p>TEMPERATURE UNIT (C° or F°)</p> <p>Tip: This must be set up prior to configuration of Menu 13 Low / High Temp alarm.</p> <p>Press the right button to choose between Celcius or Fahrenheit. Press the left button to set and pass to the next menu.</p>
	<p>DISTANCE UNIT (Km or Mile)</p> <p>Tip: This must be set up prior to configuration of menu Menu 17 Speed Configuration.</p> <p>Press the right button to choose between Metric (km/h) or Imperial (mph) Press the left button to set and pass to the next menu.</p>

	<p>BACKLIGHT ON/OFF</p> <p>Press the right button to choose whether to make the backlight menu active or not. When on active ("ON" mode), as soon as you start the unit the backlight menu will pop up for a few seconds asking if you will need to have the backlight on or off. If you have not activated the back light, it will not appear when you start the unit. Press the left button to set and pass to the next menu.</p>
	<p>G-FORCE SENSOR</p> <p>Hold the sensor upward until you reach a maximum value, then press the right button. Repeat same, holding sensor downwards, then left, then right. Install sensor flat on your Vehicle. You should see a "YES" on your screen, meaning your G-Force calibration is OK. In case you see "NO" you will need to start the process over. Press the left button to set and pass to the next menu.</p>
	<p>DATA SECURITY PASSWORD</p> <p>With the right button, you can enter a 2 digit password, using the arrows up and down. Then press the left button to set once the code has been chosen. Press the left button to set and pass to the next menu. Tip: If password is improperly entered, after 5 attempts, your display will go to start Mode and the data in memory will be lost (the configuration settings will remain). Left button passes to next menu</p>
	<p>FACTORY DEFAULT SETTINGS</p> <p>Press the right button to bring you to the default factory settings. Press the left button to set and pass to the next menu.</p>