MOTORCYCLING
AUSTRALIA

Ride. Race. Enjoy.

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The national body of motorcycle sport in Australia affiliated to the Federation Internationale de Motocyclisme [F.I.M]

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Power Locking & Confirmation Procedures for the Stark Varg to Compete in State or National Championship MX1 / MX2 or Equivalent Classes.

Disciplines in which the Stark Varg is eligible to compete:

- MX
- Dirt Track, Track & Flat Track.
- Supermoto
- Enduro (including Hard & Super)

MX2 Class equivalent – a maximum output of up to 48hp/36kw.
MX1 Class equivalent – a maximum output of up to 60hp/45kw.
E3 & Open (All Powers) Class equivalent - a maximum output of up to 80hp/60kw.

The Stark VARG has 5 modes, available at any time, and customizable under normal conditions.

There are two methods for confirming the power setting on the Stark Varg, Pre & Post Race.

Pre-Race Confirmation of Power Setting:

Method:
By utilising the Race Mode on the Dash of the Stark Varg.
Note: At the discretion of the RCB, machines competing in State or National Championship Events should have the Race Mode APP available on their Stark Phone to be eligible to compete in these Events.

When the Race Mode is activated, only one mode will be active, the class which the rider has selected to enter.

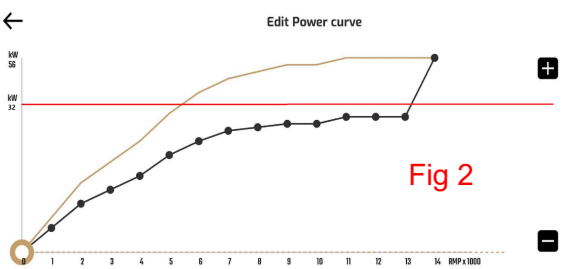
Stark machines have a feature that enables a technical official to "lock" the machine at a set power output for a set duration of time. This cannot be disabled or bypassed during the predefined "lock-out" period. When presented for technical inspection, the machine will be locked in "Race Mode" at the maximum allowable power for the class in which it is participating, by the scrutineer or a technical official. This will be set for the duration of the event it is entered in. This may be used as the method of power output verification only if locked by the scrutineer or technical officials.

How this is achieved:

1. During technical checks, the team/rider must present the motorcycle with their phone, (fig. 1). (It is not mandatory to ride with the phone.)

2. The appointed technical official or Scrutineer will then activate the "Race Mode" in the Stark app of the motorcycle on the phone (fig. 2).

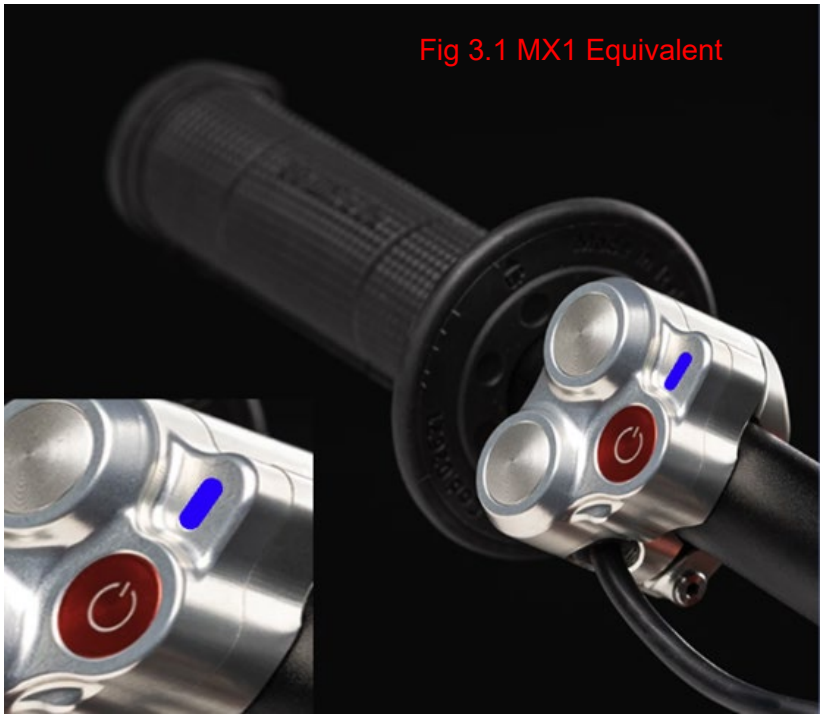
3. The "Race Mode" (fig. 2) will allow you to select the "locking time" (you can choose from 24 to 72 hours) and the "power limit" (in ch/kW) that should be applied to the motorcycle.



4. When the "Race Mode" is activated, only the "power curves" below the power limit will be loaded into the motorcycle.

Power Locking & Confirmation Procedures for the Stark Varg to Compete in State or National Championship MX1 / MX2 or Equivalent Classes.

5. To confirm that the motorcycle is actually in "Race Mode", an LED on the handlebar will flash 10 times in a specific colour (figs. 3.1 & 3.2).



MX1 Class Equivalent 60hp Blue LED on Switch Block will flash.

MX2 Class Equivalent 48hp White LED on Switch Block will flash

6. There is also a race log (black box) available in the app that will show all power usage during the "Race Mode" or the defined 24 to 72-hour period. This log can be downloaded and viewed before and after the race.

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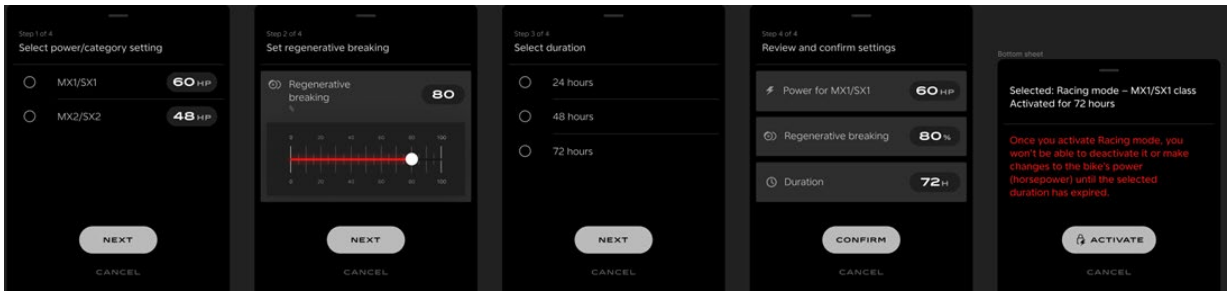
7. There is no way to bypass the power limit set (like changing the engine on a petrol motorcycle) unless the core of the electronics is compromised.

8. The power limit disappears when the "locking time" has expired, and the motorcycle can be used normally.



Note: The locking time and duration will be clearly indicated, showing when the lock was initiated and when it is set to expire.

Post Race Confirmation of maximum power used:

Method:
There is Power Management Data that can be used to confirm the maximum power used during an Event.

1 - Open the Stark App on the machines phone and go to STATS

2 - In STATS go to RIDES

3 - Select the Last RIDE or Date and Time corresponding to the Race that needs verification.

4 - Once the RIDE has been selected, Scroll down to Power/ HP Usage. Here you can see the maximum power used in that ride or session. (fig 4)

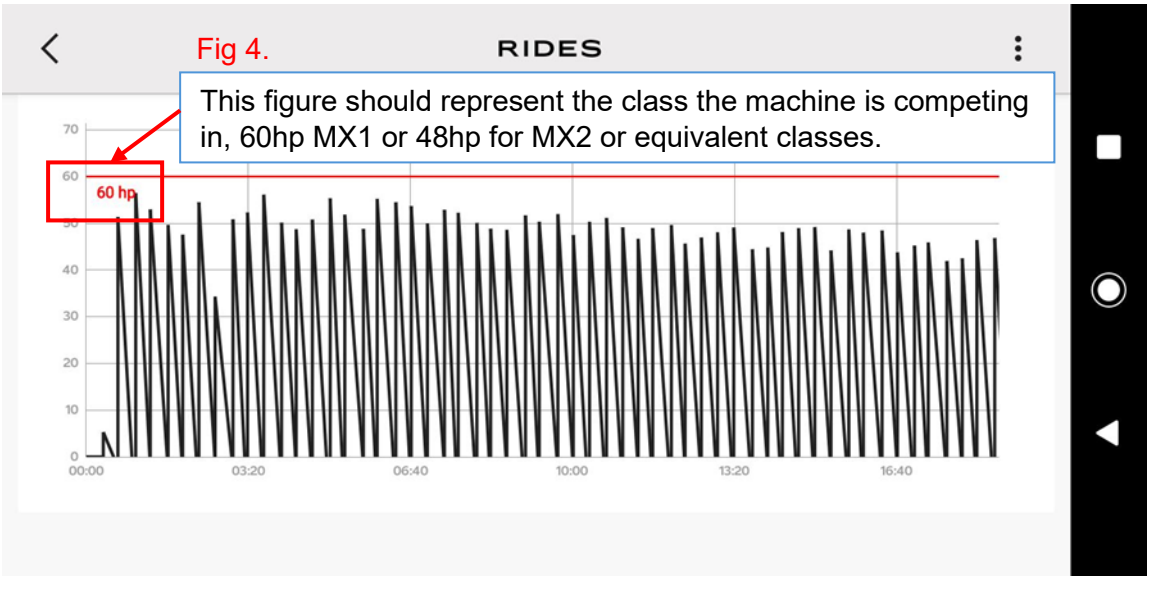


Fig 4.

This figure should represent the class the machine is competing in, 60hp MX1 or 48hp for MX2 or equivalent classes.

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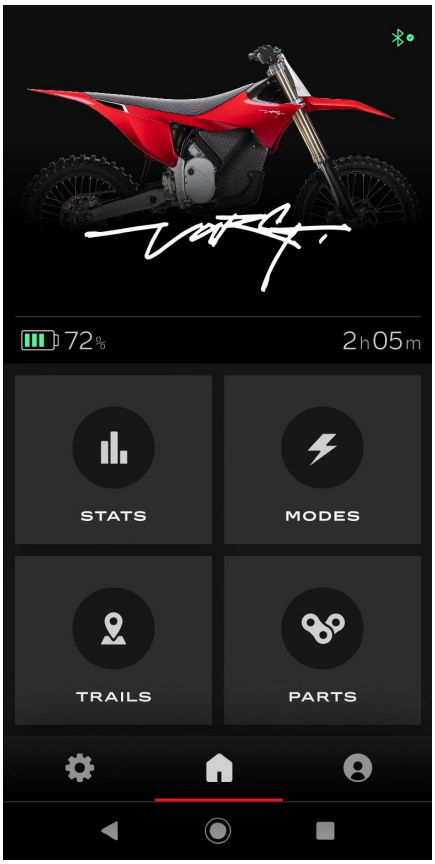
Power Locking & Confirmation Procedures for the Stark Varg to Compete in State or National Championship MX1 / MX2 or Equivalent Classes.

Instructions on how to activate “Race Mode”

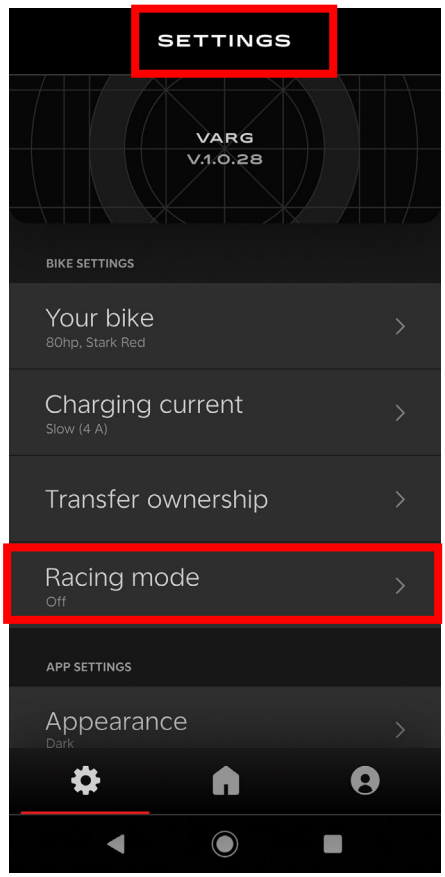
When the Racing Mode is activated, only one mode will be active in the category/ class in which the rider has committed to.

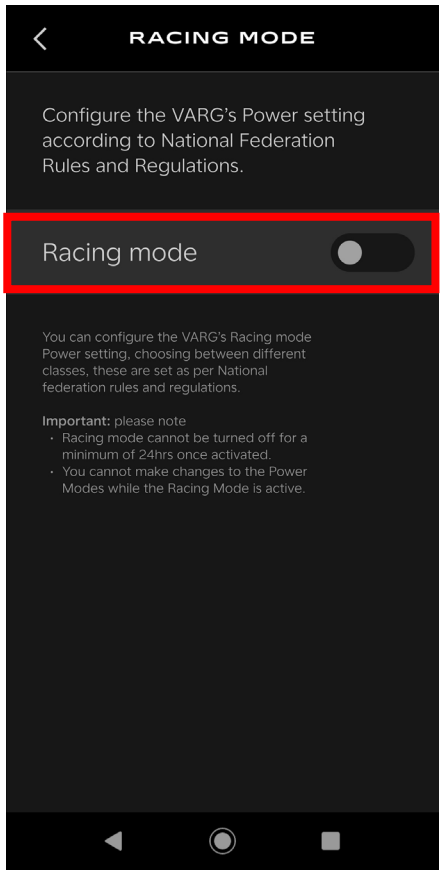
This cannot be disabled or bypassed during the predefined "lock-out" period.

When presented for technical inspection, the machine must be locked in "Racing Mode" at the maximum allowable power for the class in which it is participating, by a technical official.



Settings and Activation - Flow:





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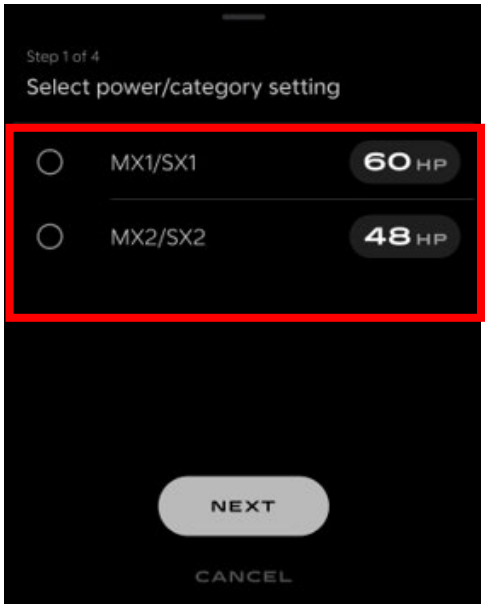

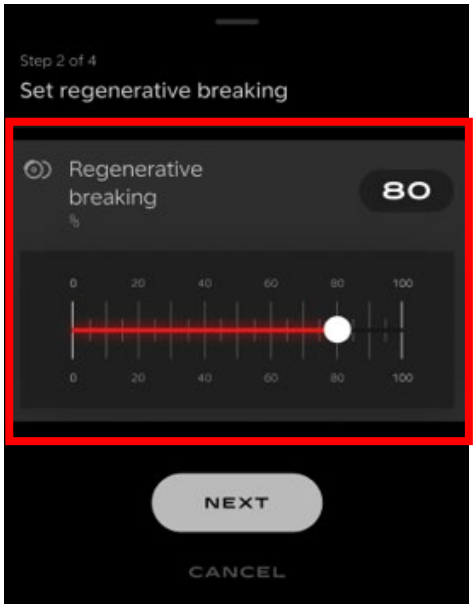

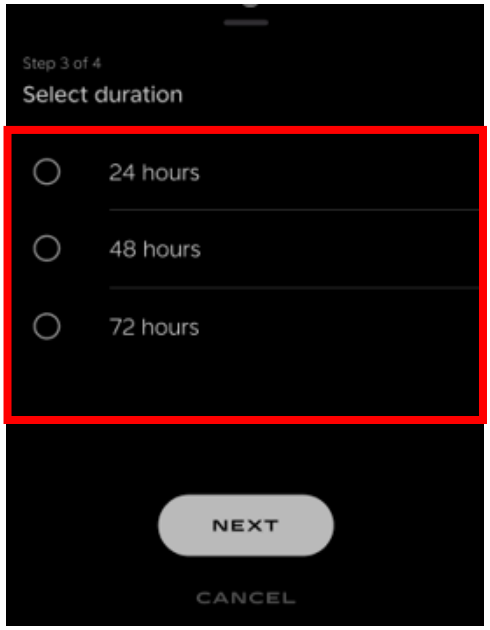

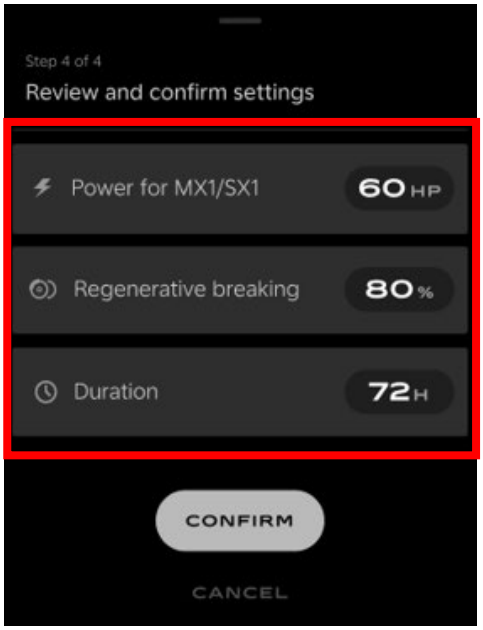

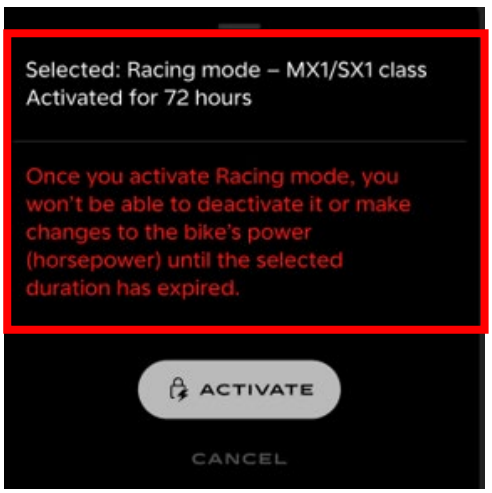

Note: There are 2 steps before final activation. When Final activation is approved and locked it will be impossible for the rider or officials to override.

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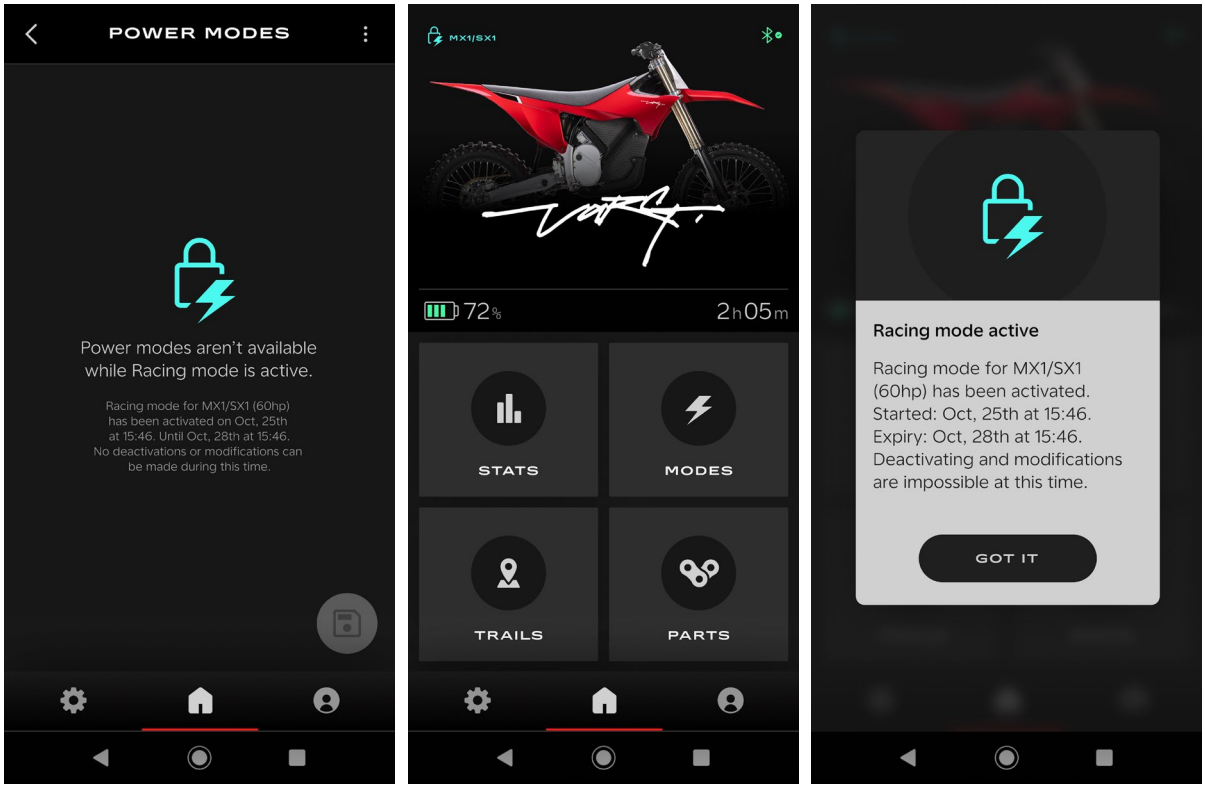
Power Locking & Confirmation Procedures for the Stark Varg to Compete in State or National Championship MX1 / MX2 or Equivalent Classes.

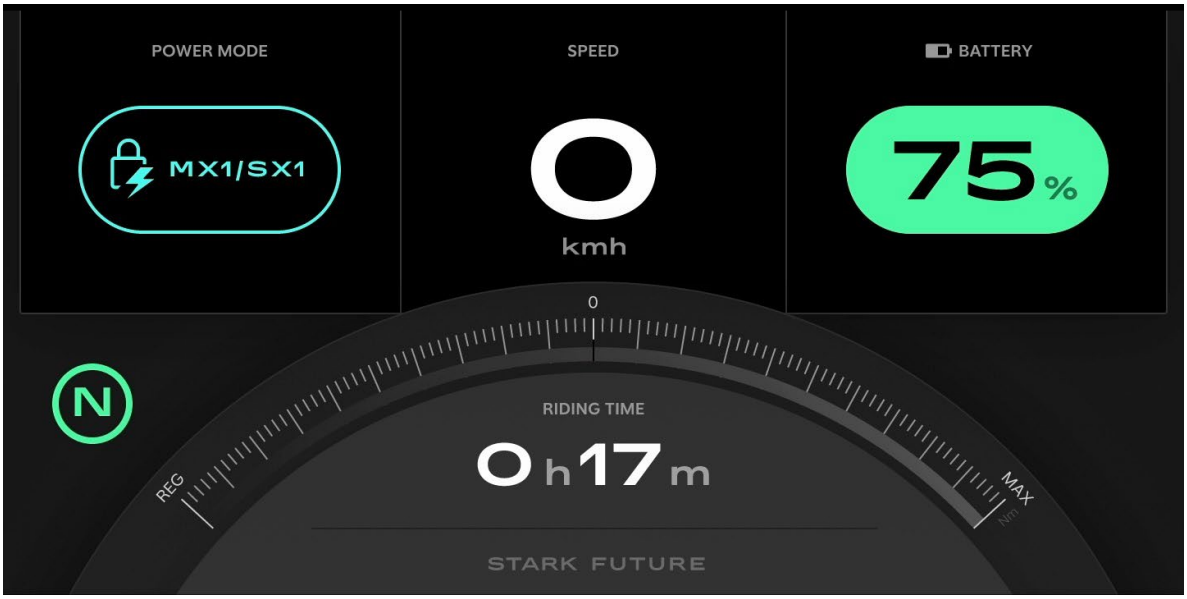
APP Start up and Racing Mode Active:

This will be set for the duration of the event it is entered in and can be used as the method of power output verification during the event.
When the "Racing Mode" is activated, only the "power curve" below the power limit will be loaded into the motorcycle.
The power limit disappears when the "locking time" has expired, and the motorcycle can be used normally.
The State of the VARG ´s locked condition can be viewed at all times on the VARG´s dash display

APP Start up and Racing Mode Active: Flow



APP View: Odometer



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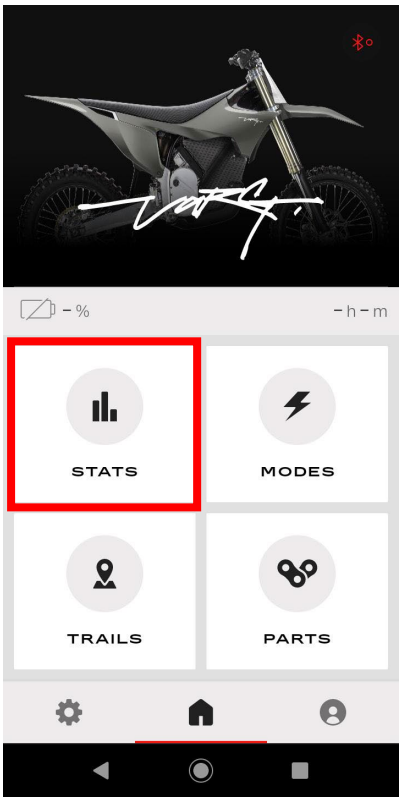
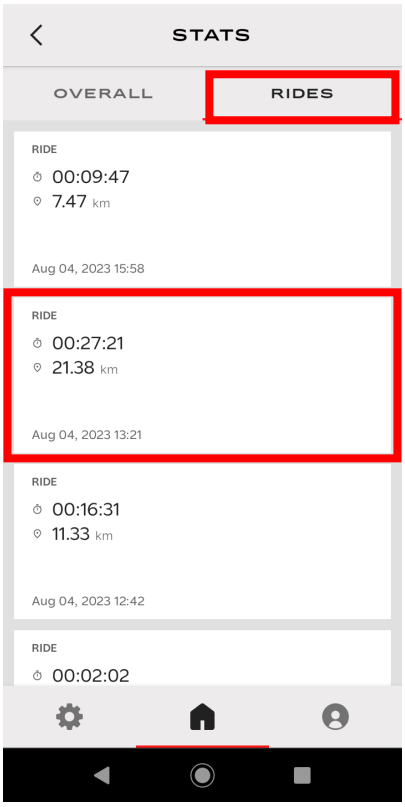
Instructions on how to view “Power Management Data”

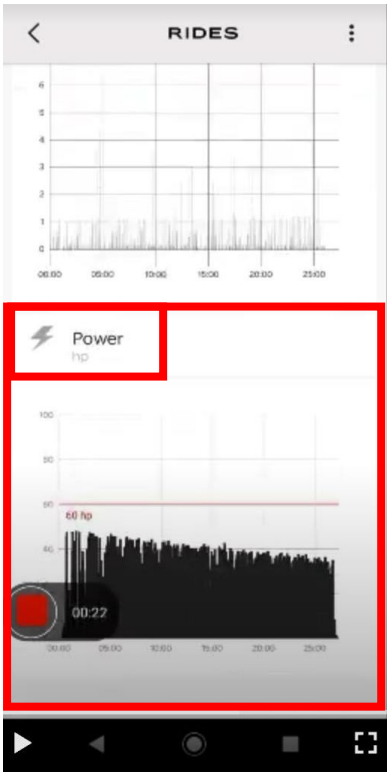
1 - Open the Stark App and go to STATS



2 - In STATS go to RIDES
Select the Last RIDE or Date and Time corresponding to the Race that needs verification.



3 - Once the RIDE has been selected, Scroll down to Power/ HP Usage



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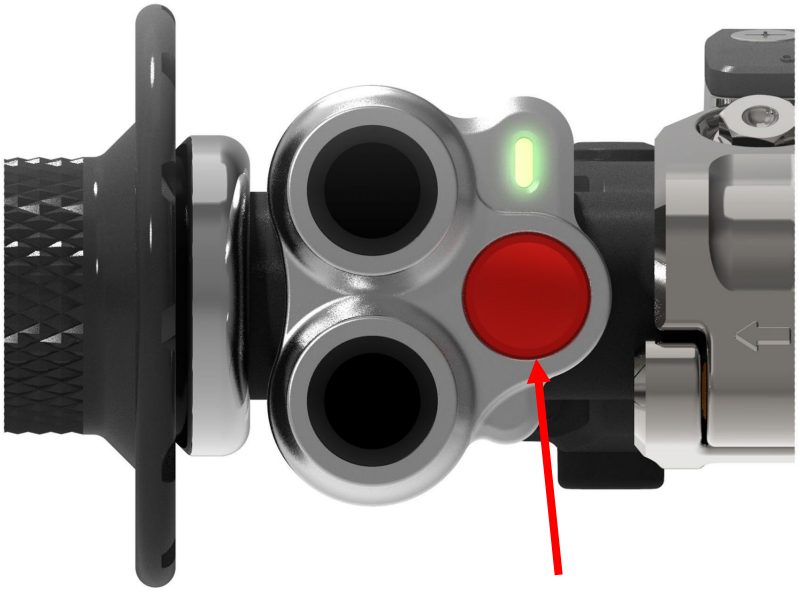
Additional Information:

Indicator light colour reference description:

Visual indicators	Mode	Motor under tension	Active throttle	How to put the motorcycle in this mode?	Conditions
ON/ OFF	Off	NO	NO	When the Motorcycle is static pressing the On/ Off button, bike will turn on or Off entering a Stand by mode.	**The motorcycle can be handled freely.**
Hard Shut down	Off	NO	NO	When the motorcycle is in Standby mode ◐ , press the + and – buttons until the LED lights up white. If successful, it will then turn off.	**The motorcycle can be handled freely.**
● **Constant**	Off	Yes	NO	Will appear only IF the Bike has an Insulation failure	Make sure to have in Neutral before manipulation & Press Map switch OFF
◐ **Blinking slowly**	Stand by	NO	NO	Whatever the mode of the motorcycle, **keep pressing the Power button ● on the handlebars until the LED lights up red.**	No electrical risk
				An inactive motorcycle (without movement of the wheel and the throttle handle) goes into standby mode after **5 minutes** .	No risk of wheel activation
					The motorcycle can be handled freely without risk.
◐ ◐ ◐ ◐ **Blinking quickly**	Neutral	**Yes**	NO	When the motorcycle is active and the Visual indicator is **constant**, keep pressing the RED Main Power button on the handlebars until the LED changes to flashing status. An inactive motorcycle (without movement of the wheel and the throttle grip) goes into Neutral mode after 1 minute.	(it is recommended to turn off the motorcycle or switch to standby mode for safe handling) Absence of electrical risk (except in extreme cases) Risk of activation of the wheel, except by pressing the button - The motorcycle can be handled freely.
● ● ● **On constinously**	Active	**Yes**	**Yes**	When the motorcycle is in Neutral mode ◐ ◐ ◐, press the - button. Bike will return to Neutral mode within 10 - 12 secs	Put the motorcycle in Standby or Neutral mode using the Power button ● then **the motorcycle can be handled freely.**
● **Dark blue**	battery is charging	NO	NO	Connect to Charger	No electrical risk
● **Light blue**	The battery is charging with cooling system active.	NO	NO	Connect to Charger, dependant on motor temperature.	No electrical risk
● **Magenta**	Ready to update.	Yes	NO	Automatic when an Update is available	No electrical risk



Power Button

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