



Power Locking & Confirmation Procedures for the Stark Varg to Compete in 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:

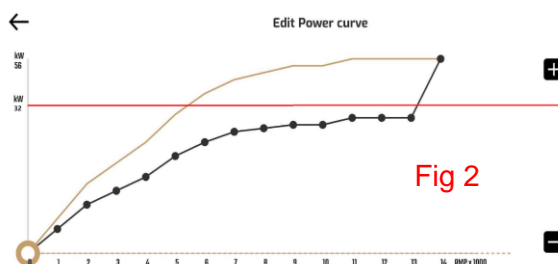
By utilising the Race Mode on the Dash of the Stark Varg.

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.

Ride. Race. Enjoy.

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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 Purple LED on Switch Block will flash.



MX2 Class Equivalent 48hp Light Blue 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.

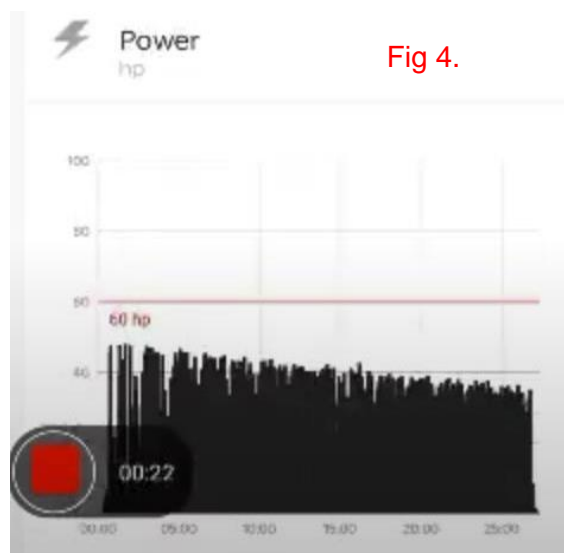
Post Race Confirmation of maximum power used:

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)



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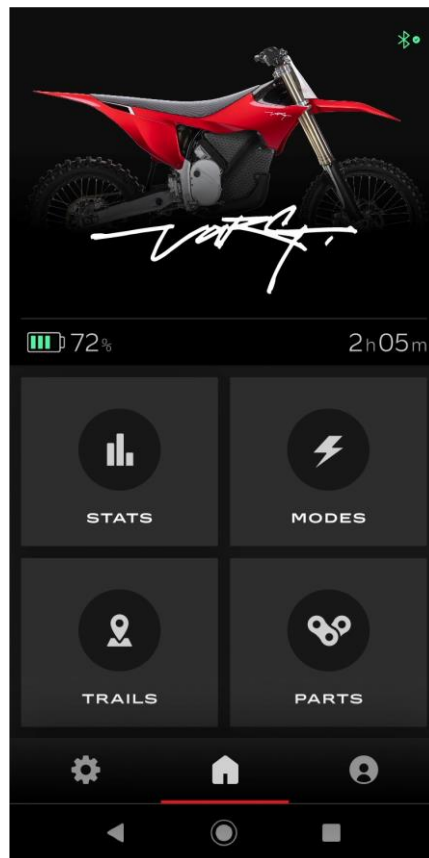
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Instructions on how to activate "Race Mode"

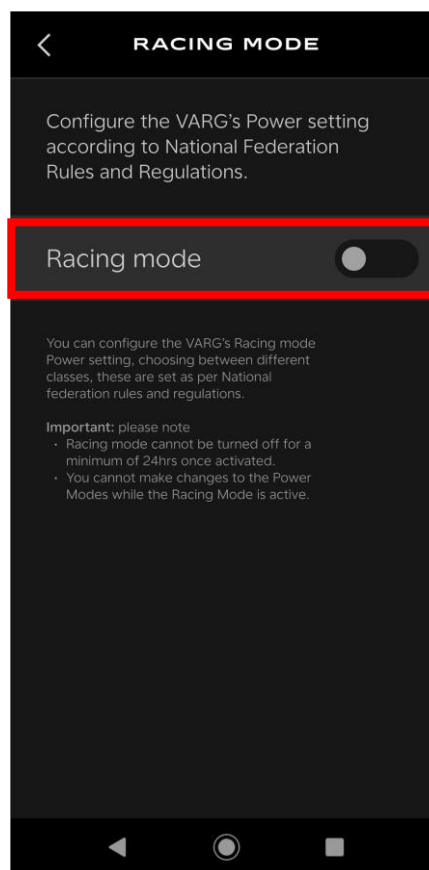
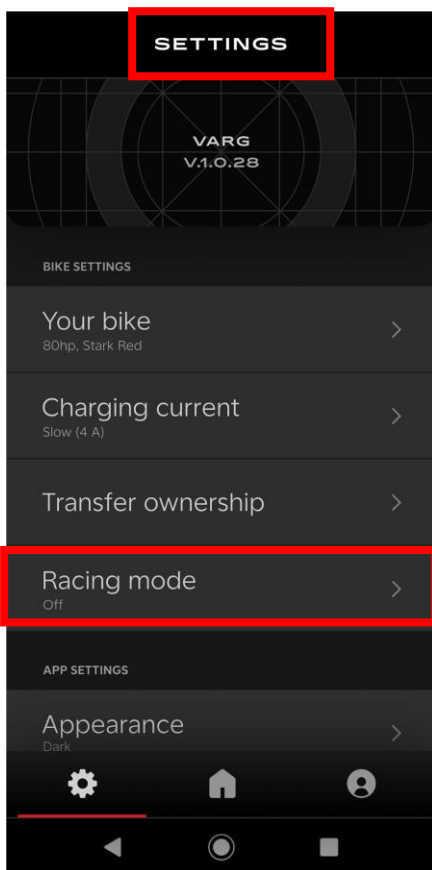
When the Racing Mode is activated, only one mode will be active in the category/ class in which the rider has committed to.

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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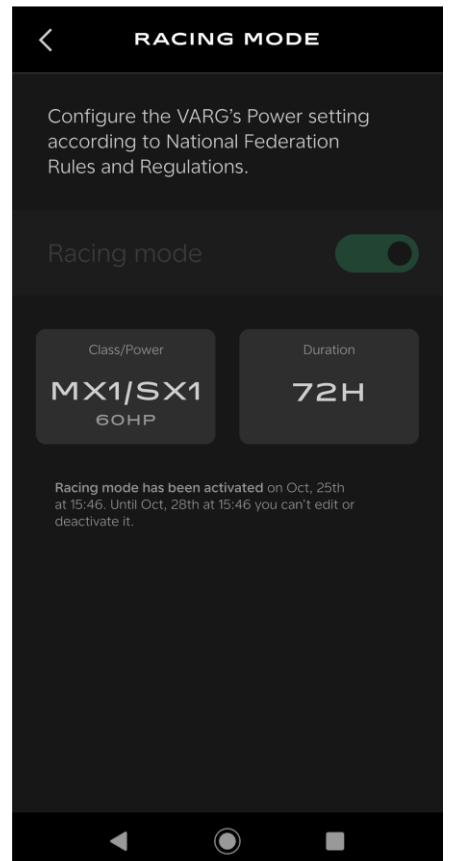
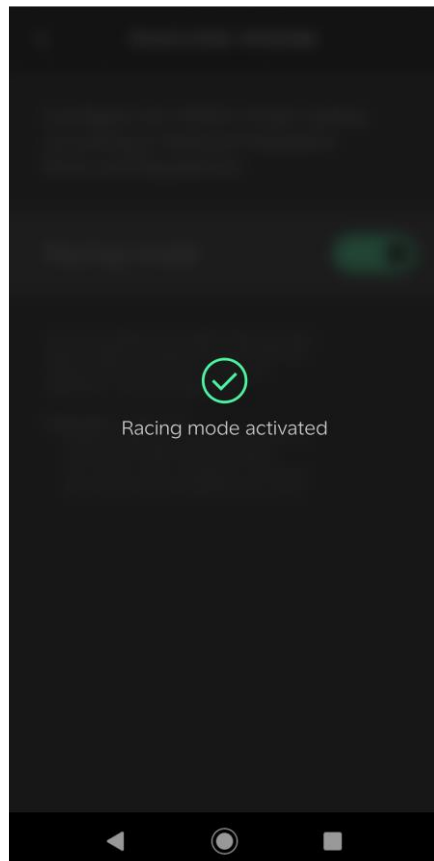
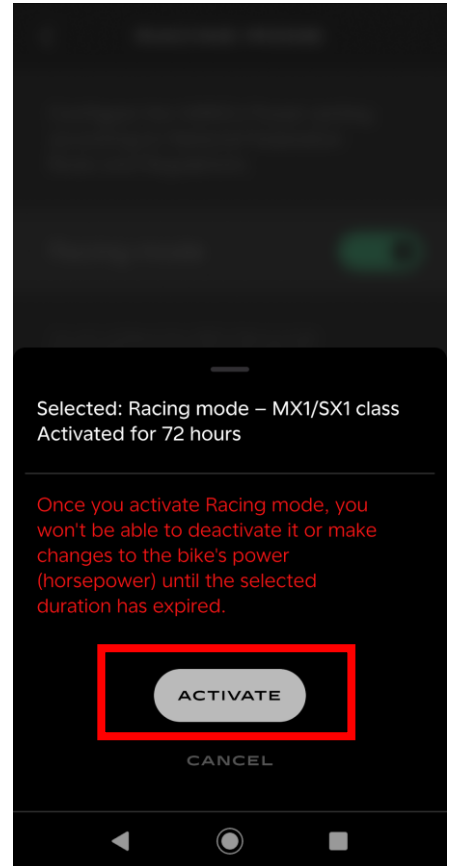
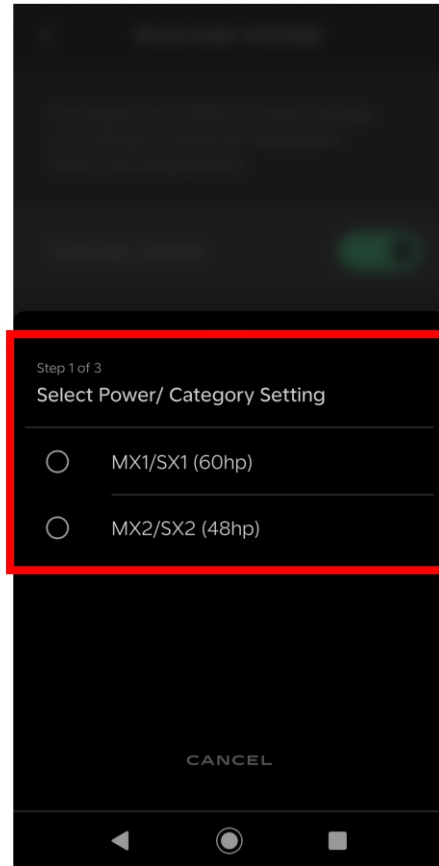
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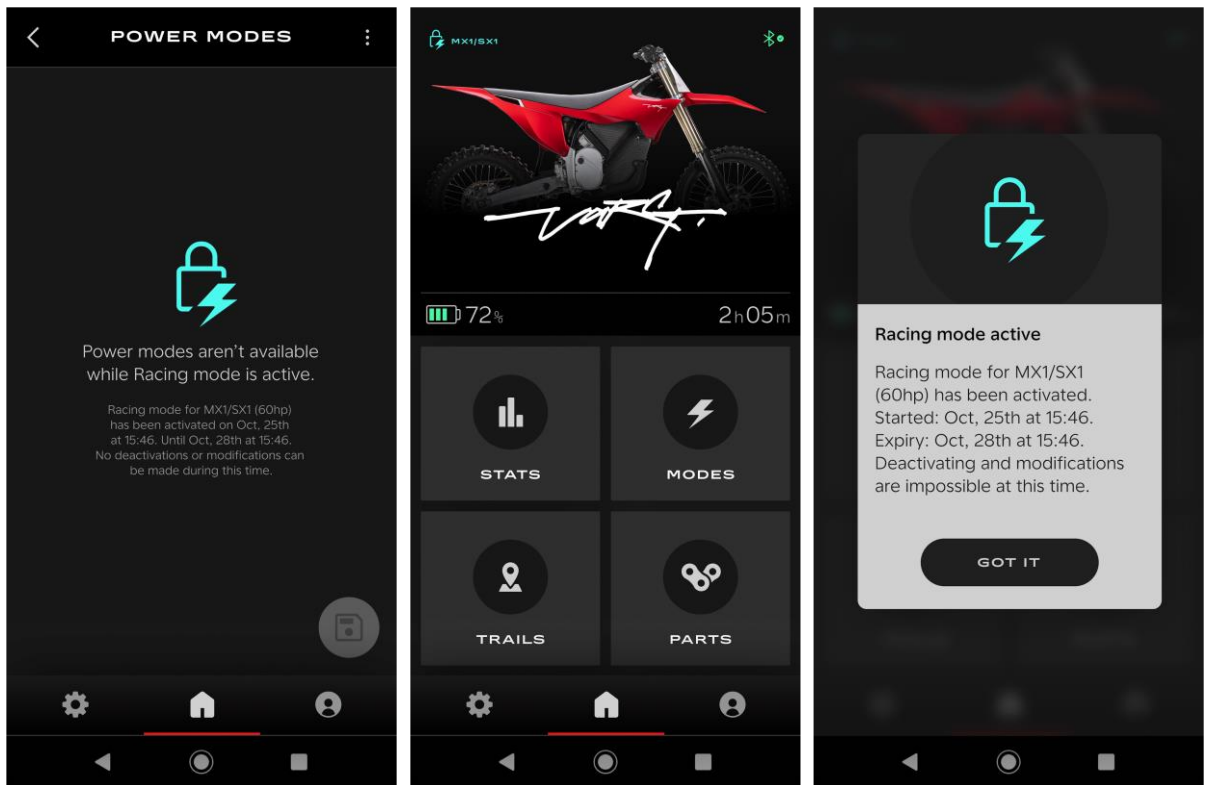


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APP Start up and Racing Mode Active:

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



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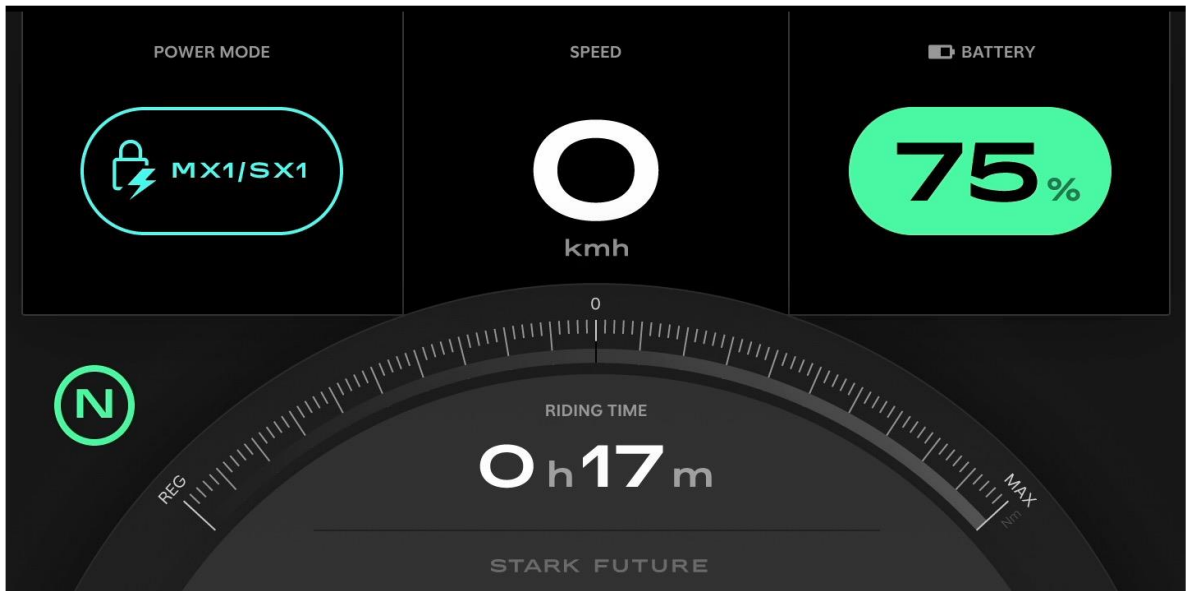
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APP View: Odometer



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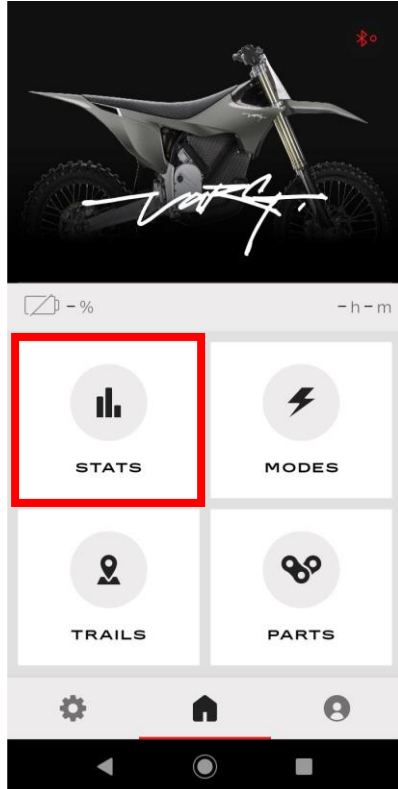
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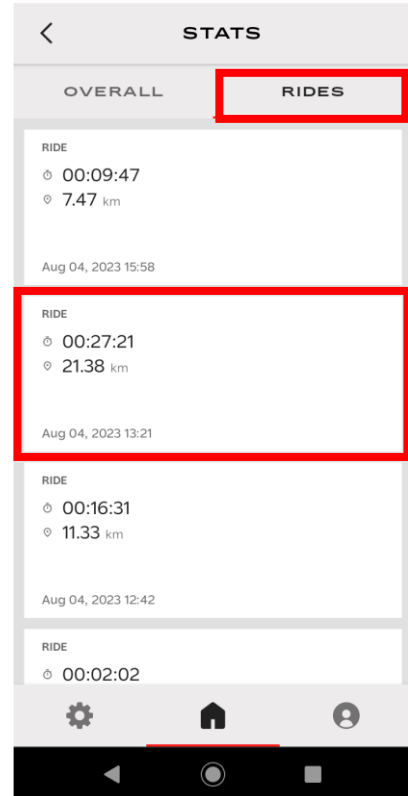


Instructions on how to view “Power Management Data”

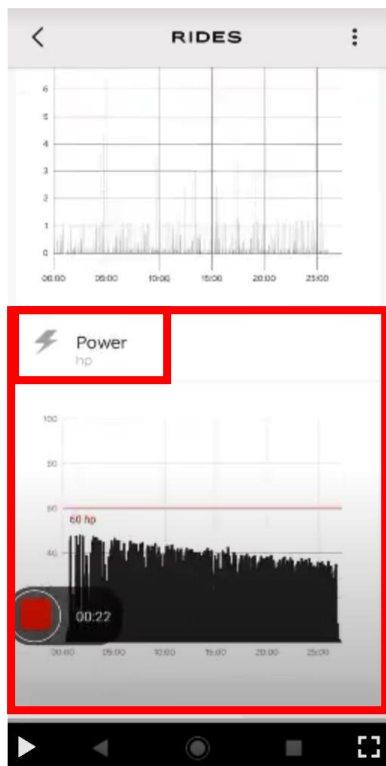
1 - Open the Stark App and go to STATS



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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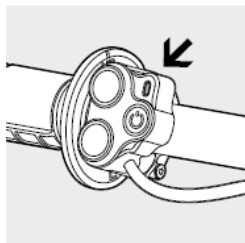
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Indicator light colour reference description:



The control switch contains a LED light which can change color. Each color has a different meaning.

Color	Meaning
● Dark blue	The battery is charging.
● Light blue	The battery is charging with cooling system active.
● Blinking green	The motorcycle is On and in neutral. The throttle does not work.
● Green	The motorcycle is On and ready to go.
● Red	Lights up just before stopping the motorcycle.
● Magenta	Ready to update.

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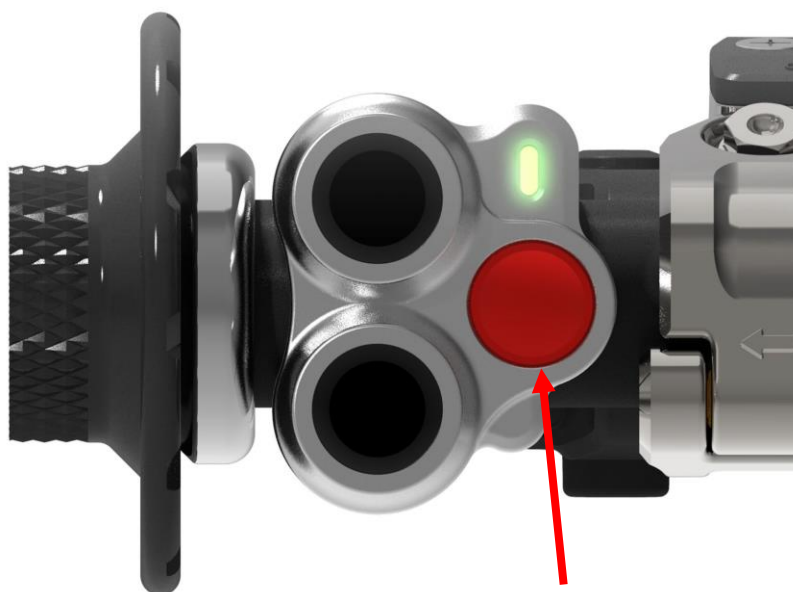
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Power Button