

The image shows a close-up of a car's engine bay. A silver, octagonal-shaped diagnostic tool is connected to a throttle cable. The tool has a small digital display in the center showing the number '0.50'. The background is filled with various engine components, hoses, and metal parts, all in a dark, monochromatic color scheme.

nihilo
CONCEPTS

TPS SETTING TOOL

NIHILO CONCEPTS TPS SETTING TOOL INSTRUCTIONS

TPS TOOL

The tool is made of billet aluminum, heavy-duty wiring, and proprietary circuitry.

It is very easy to use and can be dialed in in just a few minutes.

The tool will help you improve the performance of your dirt bike by ensuring that the TPS is set to the correct value.

Currently works with KTM, Husqvarna, and GASGAS big bikes with TPS. See website for full list.





STEP 1

Installation is very easy.
First step is to remove the seat.



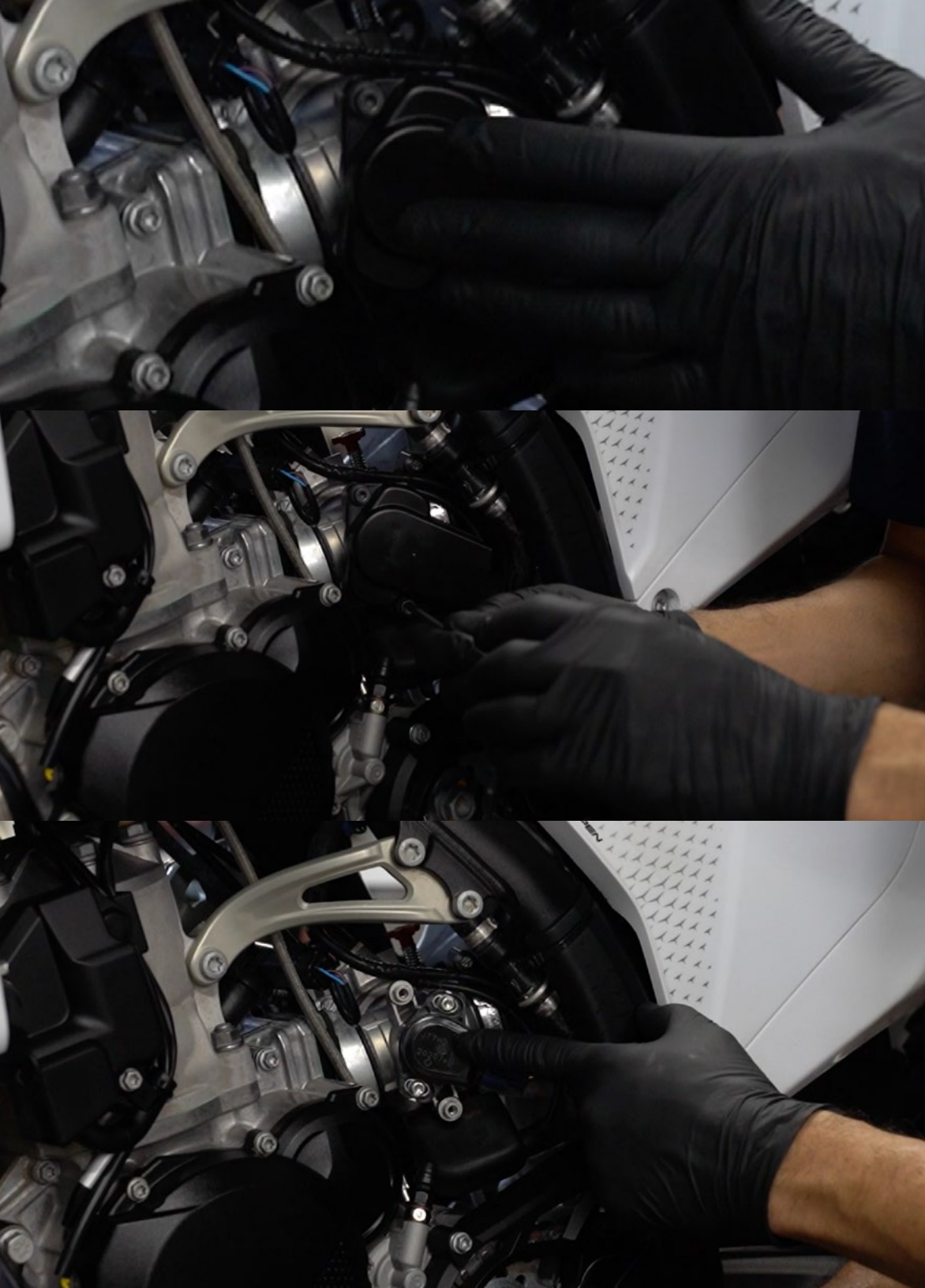
STEP 2 LOCATE DIAGNOSTICS CORD

After removing the seat, you must locate the diagnostics communication cord.

On the 2023 models, it is a red cord like you see here.

On the prior and 2024 models, it will be a natural color like you see in the bottom photo.



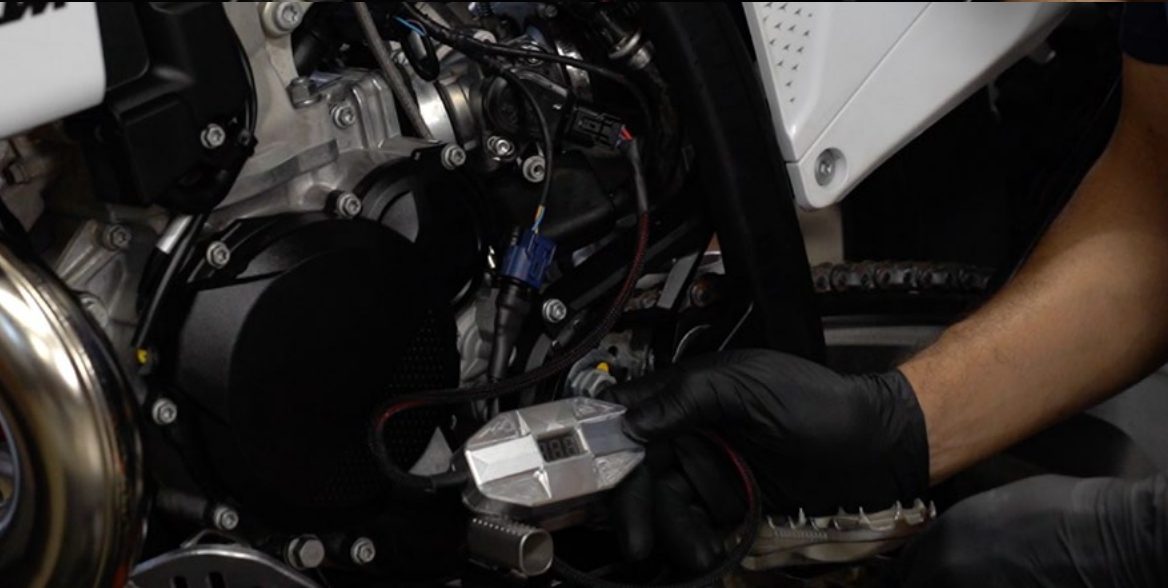


STEP 3 LOCATE TPS

Now we locate the Throttle Position Sensor (TPS), which is always on the left-hand side of the bike directly on the throttle body.

You will want to remove the case with a 3mm Allen wrench.

And underneath is the throttle position sensor pictured in the bottom photo.



STEP 4 PLUGIN TOOL

Once you locate your TPS, you proceed to disconnect.

Now you take your Nihilo Concepts Setting Tool and connect it.

One end goes to the sensor, and the other to the harness.



STEP 5 POWER DONGLE

The next step is to power up the bike with your power-up dangle. (This comes with the purchase of your motorcycle) Connect it, and your TPS tool is now working.



STEP 6 IDLE KNOBS

So now the Nihilo Concepts TPS tool is powered up. You want to check it for the proper settings.

Make sure to turn the idle screw (Red Knob) counterclockwise so you feel no resistance from the spring.

You do the same thing with the yellow knob (Fast Idle knob) and turn it counterclockwise until it stops.





STEP 7 BASELINE

At this point, once both knobs are turned counterclockwise all the way out, You should be at 0.40. This would be your baseline number, which means your throttle valve is fully closed.



STEP 8 TPS ADJUSTMENT

Once your bolts are loose, you want to rotate the TPS slightly to either side to see where the numbers go. You can snug the bolts down once you see it at 0.40. Now your TPS is appropriately set to the baseline number.



STEP 9

0.50 / 0.60

At this point, we will turn the idle screw in until you reach 0.50.

Once you reach the 0.50 voltage value after turning the red knob, your next step is to push the yellow knob in and turn the knob clockwise until you get a value of 0.60.

Once you have reached 0.60, you want to release the yellow knob by rolling the throttle forward.



STEP 10 LAST STEP

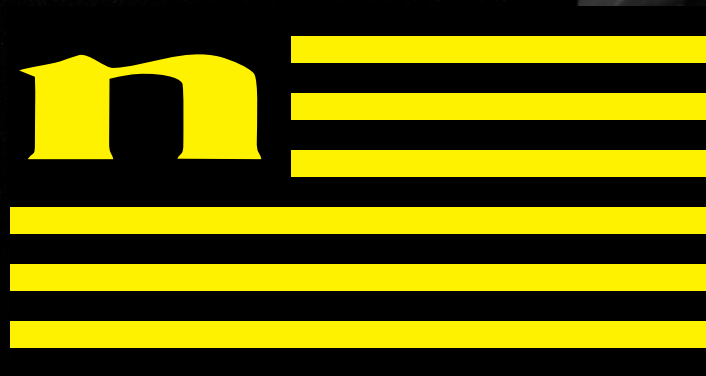
The last thing you want to check is your wide-open throttle setting. You have to make sure the numbers jump up evenly up to 4.50.

Now that you have properly set your TPS, you want to remove your power-up dongle, fire the bike up, and warm it up thoroughly to operating temperature. At this point, feel free to set your idle speed with the red knob until you reach an RPM of around 2,200. You can do this with the TPS Setting Tool still connected to the bike.

To finalize, shut the bike off, remove the TPS tool, and reconnect the harness to the TPS, and you are ready to go.



**SETTING YOUR TPS
JUST GOT EASIER.**



MADE IN THE USA