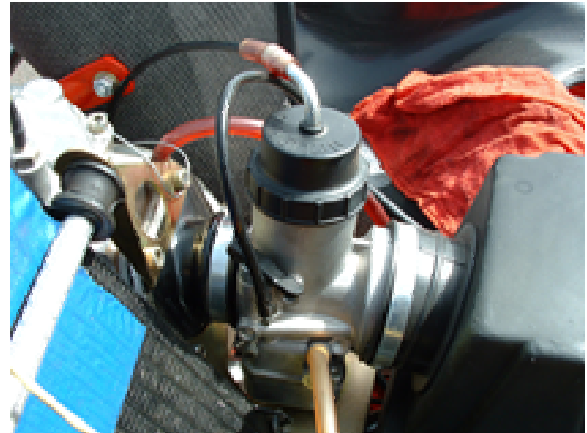


Jetting the Rotax Motor

The following is a step by step guide on how to change the main Jet and to the needle pin setting on a Rotax motor.

Step 1

Loosen the clamps on each side of the carburetor.



Step 2

Rotate the carburetor



Step 3

Using a 18mm boxed end wrench. Remove the brass float bowl plug located at the bottom of the float bowl. When removed, the fuel in the float bowl will come out.



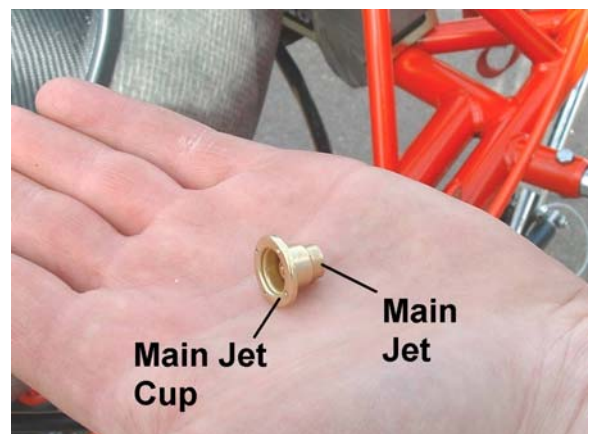
Step 4
Identify the current jet.



Step 5
Using a flat head medium sized screw driver, remove the main jet and main jet cup.



Step 4
The main jet and main jet cup are two separate pieces. Replace with the main jet you wish to use. Make sure you reposition main jet cup correctly.



Step 6
Reverse the order to reassemble. Don't forget to tighten the clamps on both sides of the carburetor.

Setting the Pin on the Needle

Step 1

Unscrew (counter clockwise) the fitting for the throttle cable that is located on the plastic cap on top of the carburetor. This must be done to allow you to unscrew the black plastic cap on top of the carburetor.



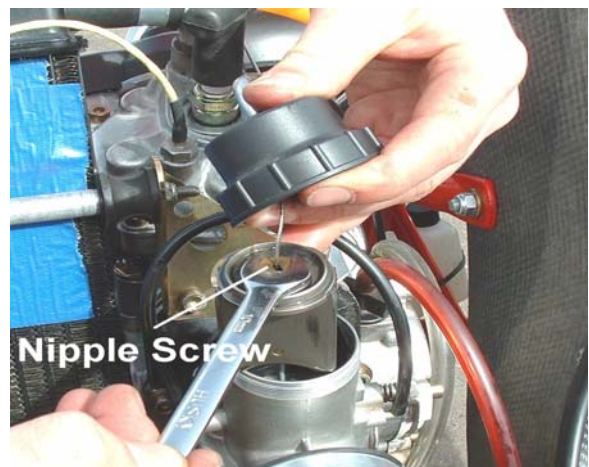
Step 2

Unscrew the black plastic cap to the carburetor.



Step 3

Remove the slide from the carburetor. Using a 10mm wrench, unscrew the brass nipple on the top of the slide. (The easy way to do it is with some else helping, have them hold the black cap and using two finger keep the spring retracted inside the cap.)



Step 4

Push the needle up from the bottom of the side. Great care should be taken when handling the needle so as not to bend it.



Step 5

Verify current needle position. Note that there are 5 grooves on the needle.

Only the top 4 grooves are used for placement of the clip on the needle.

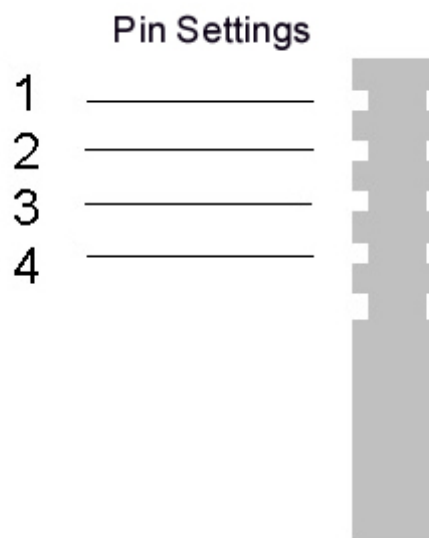
The top groove is known as "Pin 1". The fourth one down is "Pin 4". Note that the clip is currently on Pin 2.

Use a small pair of needle nosed pliers to remove and replace needle to desired position.

Note that the clips are very small and if lost, very difficult to find.

Therefore, we recommend changing the Pin setting in an area that if clip were to spring off, it would be easy to find. Also not a bad idea to have several clips in your race box as spares.

When positioning clip, verify that it is completely clipped on needle before reassembly.



Step 6

Reverse the order for reassembly.

Note the picture in Step 5. There is a brass dot on the front side of the slide.

Be sure that it is facing the front of the carburetor.

Also, when screwing in the fitting for the throttle linkage, be sure not to cross thread, and leave one to two threads exposed. If you over tighten, you will crack the black plastic cap to the carburetor.

Final Note:

When following the procedures for Jetting and for setting the Pin on the needle.

Always look over all components for excessive wear or damage.

Also verify they are clean!

Dirt is one of the main challenges to proper operation.

If a component is dirty, use carburetor cleaner on it.

And finally, use MaxJet software to get the most accurate setting for your main jet and pin setting.