How to De-restrict Your Baotian BT50-QT9

By Billy green

Firstly I must remind you that while it's not illegal to de-restrict a scooter/moped, it is illegal to ride one without the correct licence and insurance. Also this information is intended as a guide only, I am not responsible for any damage caused to your bike while using this guide. The responsibility for this lies with you!

Now on with the good bit!!

First you need to make sure you have the right tools, a medium size Philips (Cross head) screwdriver, a pair of pliers, and some electrical tape.

There are two parts to this de-restriction. First the CDI unit electronically restricts the engine. This restriction is easy to overcome. You need to disconnect the **thin PINK** wire under the body panel on the right side of the scooter (Photo)



When you have disconnected this wire you will need to cover the ends with the electrical tape. **DO NOT DISCONNECT ANY OTHER WIRE.** The pink wire sends information about the speed of the back wheel to the CDI unit. If the CDI unit doesn't receive this info (because we disconnected it!) it thinks you are not moving and will allow the engine to go to full throttle.

The second thing we need to do is a little more complicated, but still quite easy. We need to allow more petrol and air into the engine.



Firstly petrol. Open the seat and you should see a cover in the bottom of the storage compartment.

Opening this cover by removing the silver screw will give you access to the Carburettor.



Remove the black circular cover (2 screws) VERY CARFULLY. There is a spring under this cap and it will pop out if you are not careful. When you have removed the cover you should see this..

Now Carefully remove the rubber seal and the yellow disc will come with it. Inside this part there is a white plastic 'Plug' and a metal needle two small washers on it. One is loose and will fall off never to be seen again, if your not careful, and the other is fixed to the pin in a groove at the top. There should also be a small rubber washer, but this may still be in the bottom of the plastic tube. DON'T LOOSE THIS RUBBER WASHER.



Now you need to remove the fixed washer. You can do this by using the pliers to pop the washer off. Be sure not to bend the needle, it is easy done and would make it unusable! The washer now needs replacing onto the needle, but now, place it onto the middle groove. See photo



Now you need to put everything back together. Replace the black rubber seal and tube into the carb first. When you do you will need to ensure that the small lug is lined up with the recess in the carb top, and that the seal is seated correctly.(See Photo)

Make sure the rubber washer is in the bottom! Now place the loose washer onto the needle under the fixed washer and place the needle into the hole at the bottom of the tube. Now place the white plastic plug into the tube, with the hole down.



On the under side of the black cap there may be a brass screw in the centre, if there is remove it.
Now place the big spring in and replace the cap.

That's the fuel side of thing sorted. What you have done is to raise the needle a little, this allows more fuel into the carb.



Now we need to sort the air intake out. This is very easy, all you have to do is ensure that the intake hose is not kinked. This is a very common problem. You can do this a couple of ways. You could place a plastic tube inside the hose to stop it collapsing or you could 'zip tie' the smaller tube to the frame, again stopping it from collapsing. I tied the small tube to the frame, see photo.

<u>You have now de-restricted your Baotian!</u>

A couple of things that would make the bike faster are

A Free Flow Air filter (Ebay for around £10)

A Sport exhaust. (No source found yet)

And changing the engine and gear oil for a good quality synthetic oil will make things run faster. Changing the oil should be done after the first 300 miles and then again after a further 300 miles. Doing these oil changes are cheap, but VERY essential.



If you need to, you can re-restrict the bike by putting everything back to how it was! However I would leave the air intake tube as it is.

Many thanks and Happy Scootering!!