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1989 LTF-250 Carb Question

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F_L_A_S_H

Registered

Joined Mar 20, 2017
5 Posts

Discussion Starter · #1 · Mar 23, 2017

How/does the float attach to the needle valve? Thoughts.... suggestions?

I attached a pic attached below showing how I guessed it should be attached (Float tang under the leg of what appears to be either a spring or a retainer for the tang ... Eff'n manual let down). As it turns out it's still dripping gas out of the drain on the bottom, after adjusting the float height to 15/16" (measured from the surface of the carb, not the raised "lip" that the gasket seals on).



The quad has had a real bad starting problem. It was given to me because I helped the owner a lot and they were tired of spending money on it only to have the same problems when they got it back from "the shop".

I'm installed a Shindy rebuild kit into it per a Clymer Manual. This is the 1st ever carburetor I've tackled and I was disappointed that the manual didn't go into more detail in a couple of areas (pilot screw assembly wasn't discussed in any more detail or broken down into any more detail other than simply stating it's an assembly ... what are the pieces and what order?? ... how does the float attach to the needle valve?? If someone has been into this carburetor and not put it back together correctly, and the manual doesn't spell it out how do I make this thing serviceable again? Anyway enough about the manual)

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8 Replies 3 Participants

Last post:

[F_L_A_S_H](#) Apr 4, 2017

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#2 · Mar 23, 2017



Manual says .92-1in....(15/16 is .9375....which is within specs).....I would try 1in and see

Yes the clip is on correct....make sure the needle moves totally freely

2002 King Quad 300
2001 King Quad 300



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Discussion Starter · #3 · Mar 23, 2017 (Edited)



So, is it possible that someone put the wrong throttle cable on this thing? Thoughts?

Pulled it apart, adjusted the float to 1". I had noticed before (when I installed it right after the rebuild) that the idle adjust screw didn't seem to make contact with the throttle "blade". So I started playing with the thumb throttle lever and noticed that the throttle "blade" wasn't coming up all the way out of the air stream (not full throttle). So at the thumb lever I started adjusting the cable and I can adjust it so that the throttle blade *just* comes into contact with the idle set screw (if I adjust it one way, the other way appears to get "full throttle"). I took the thumb throttle apart and the only time the throttle blade actually closes (and I can get some adjustment from the idle set screw) is when I disconnect the cable from the thumb throttle all together and the stop on the cable comes into contact with the cable sheathing.

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#4 · Mar 23, 2017



Make sure the end in the carb is in the slot that it goes in completely.....it goes up in a little hole

2002 King Quad 300
2001 King Quad 300



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#5 · Mar 29, 2017



89 is a normal mikuni carb, right? Throttle cable attaches to the top of the slide?

If so, back the idle screw out and make sure the slide is hitting bottom. Adjust the cable by screwing the threaded tube on top in or out. (out pulls, in drops).

One you do that, with the slide at the bottom, tighten the idle screw until it starts to lift the slide. Then take it 1/2 turn in. (starting point)

Start the motor, you might have to play with the throttle lever to keep it running. If it is idling really high, back the idle screw out. Let it warm up for at least 10 minutes.

Then adjust the idle screw to set the desired idle speed.

2013 Suzuki King Quad 500 AXi w/EPs
1990 Suzuki LT-4WD 250



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Discussion Starter · #6 · Mar 30, 2017

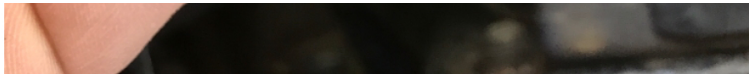


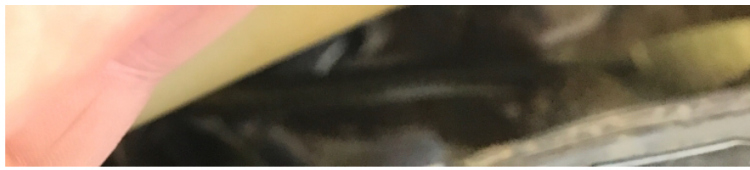
Normal? Can't answer that part this is my first one. Yes throttle cable attached to the slide (from the bottom) and moves the slide up). The cable only has one side that adjusts (on the handle side see pics below). The adjustment is all the way in (cable at the longest setting). The cap is all the way down (there's not even a gasket between the carb and the cap). The only way the slide bottoms out (or gets low enough for the idle set screw to even function) is when I remove the cable from the thumb operator.

I was told that the carb was "rebuilt" and the throttle cable replaced by an ATV shop. This shop worked on this quad a few times over the last 2 years prior to the owner giving up and giving me the quad. Are there two different cables? Is it possible the wrong one was installed? You can see in the pics where the slide has impacted the setscrew in the past, but I've looked down the throat of the carb and the slide will not touch the setscrew until I disconnect the cable at the thumb operator.









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 Discussion Starter · #7 · Mar 30, 2017



I even took the thumb operator apart and ground down the stop (pic below) in an attempt to get more cable length (in retrospect that may have been dumb, but there's enough adjustment in the cable adjustment to more than make up for that). After that the slide *just* touches the idle setscrew, but will not come down far enough for any adjustment... nor will the slide "bottom out" in the throat of the carb ... unless I disconnect the cable.





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TheBearAK
Registered

#8 · Mar 30, 2017

That slide ramp (idle screw ramp) is pretty much done. You might try and get a file in there to smooth that off. It isn't critical, but the way it is makes it really hard to adjust the idle.

The way you adjust it is hold the throttle open slightly and turn the screw in, 1/4 turn at a time, releasing the throttle each time. If you just turn the screw, it will just put a bigger dent in the slide

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releasing the throttle each time. If you just turn the screw, it will just put a bigger dent in the slide.

By normal, I mean non-Constant Velocity. CV carbs use vacuum to lift the slide (typically a flat slide).

2013 Suzuki King Quad 500 AXi w/EPS
1990 Suzuki LT-4WD 250

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Discussion Starter · #9 · Apr 4, 2017

With that, I will order a slide. Thought about trying to repair it somehow with a filler of some sort (aluminum) but that seems like a recipe for more problems, and I have enough already. OEM Slides seem to be hard to find for this Carb (VM24SS). If by chance someone has a source please post. At the moment it's looking like suzukipartshouse.com

The quad will start and run but doesn't like idling and it's still leaking fuel out of the overflow occasionally... I'm thinking I need to replace the slide first then chase this problem afterward. Thoughts?

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