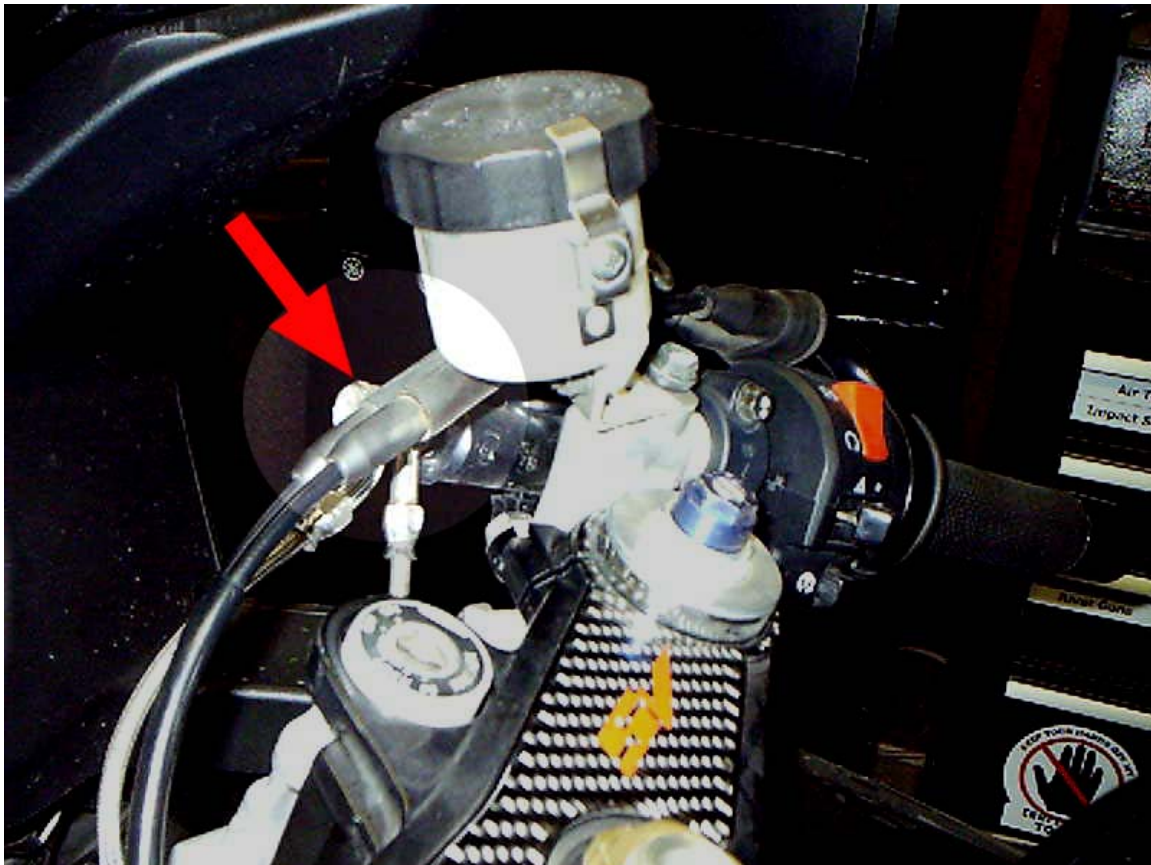




## Spears Fifth-Turn Throttles

1. Locate the throttle cable adjusters and slide the rubber boots off. Note: The rubber boots are actually two pieces per cable.



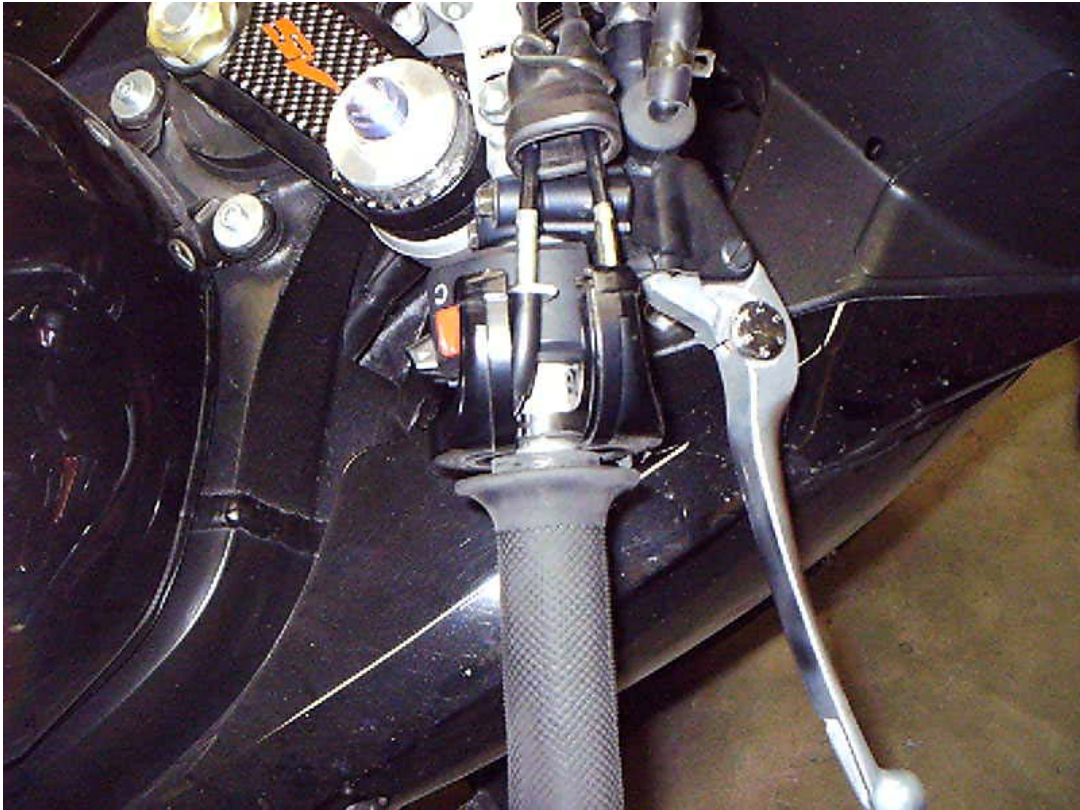
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2. Loosen the cable adjusters just a bit. (Finger loose)
3. Locate the throttle tube housing and remove the 2 screws that hold the 2 halves together.
4. While holding the two halves together, slide the rubber boot off



5. Carefully separate the 2 halves of the throttle housing and remove.



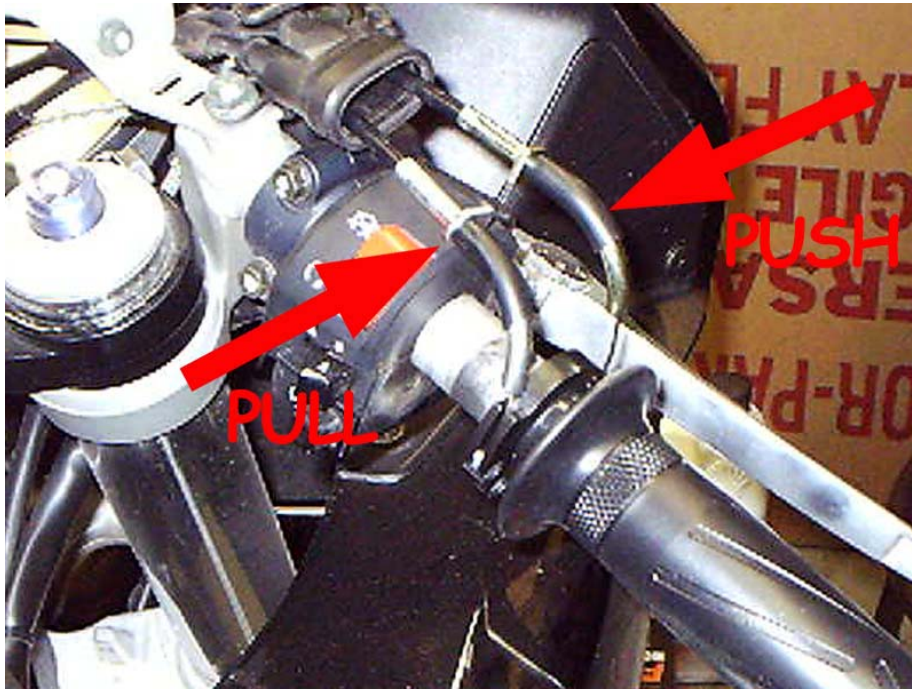
6. Remove the cables from the throttle tube, slide off throttle tube, slide on new throttle tube, and reinstall cables. Note: The holes on the tube where the cable attach will be on the bottom just like the stock one.



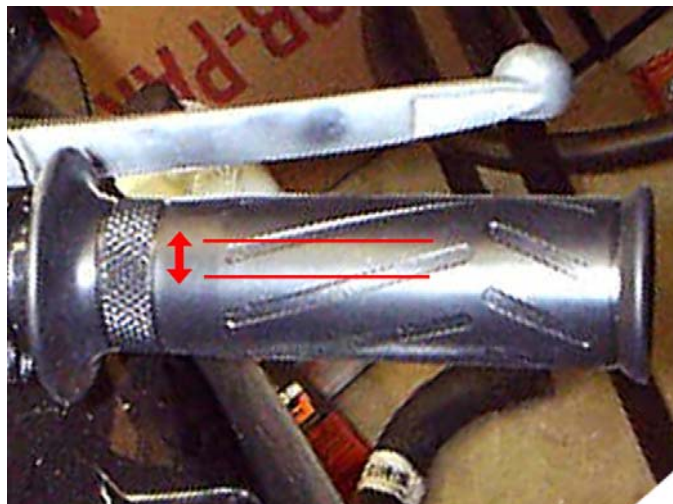
7. Reinstall the 2 halves of the throttle tube. Note: You may need to loosen the throttle cables at the adjusters to have enough slack to reinstall the throttle housing.

#### Adjusting the Cables

1. Starting with the "Pull" cable, (The cable that is pulled when you rotate the throttle tube/giving it the gas/ or the cable closest to you while sitting on the bike) use small adjustments at the throttle cable adjuster for the same cable. Remove almost all freeplay from cable. Repeat similar adjustments for the push cable.



3. Now with the slack removed from both of the cables, loosen cables to allow throttle tube approx. 1/4" of movement. (If unable to adjust correctly, see next chapter)





3. Turn on Engine and turn throttle tube. Check for sticking and proper operation. With engine still running, turn handlebars fully both directions. If engine RPM suddenly rises while fully in one direction, there is not enough slack in the throttle cables. Readjust and perform this test again.

4. If everything operates correctly, tighten throttle cable adjusters and re-position rubber boots. Double check all screws, nuts, and bolts that were removed, adjusted, touched, or thought about.

#### Not Enough Slack or Too much Slack

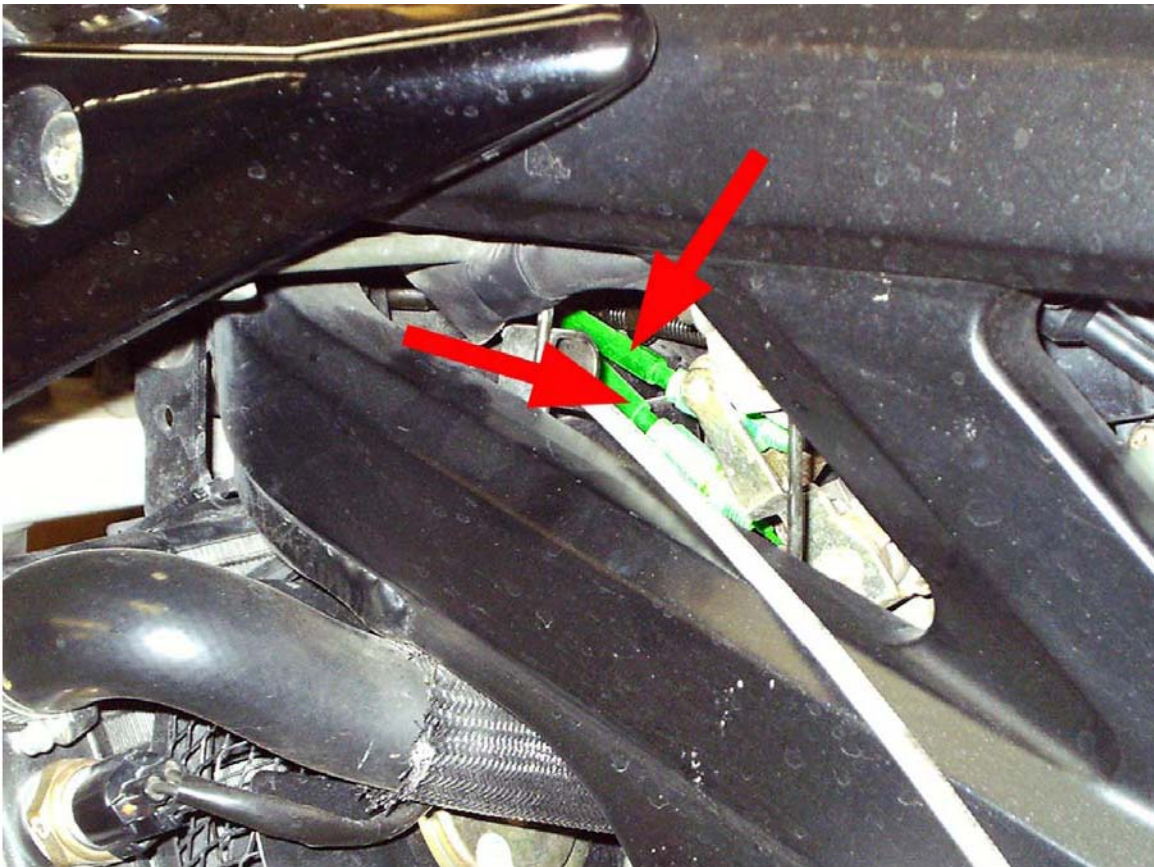
If you have loosened your cables as much as possible and there still is not enough slack, or if you have far too much slack, you will need to adjust your cables at the throttle body.

1. Lift the fuel tank and remove the airbox. The throttle cables connect to the throttle body on the right hand side of the bike. (Indicated in picture)





(Cable is highlighted in green)



2. Loosen the cables and adjust here until you have enough slack at the throttle tube. Remember to adjust both cables. When there is enough slack, re tighten cables. Return to the "Adjusting the Cables" section and complete.

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