

## INSTRUCTION SUPPLEMENT FOR 2005-LATER YAMAHA RAPTOR 350

### Removing stock carburetor and cables.

---

1. Remove seat and gas tank. **Make sure fuel petcock is in "off" position.**
2. Remove throttle cable paying close attention to routing, as the new cable(s) will need to be routed the same.
3. Remove stock carburetor and stock throttle housing. Stuff a clean, dry rag into manifold to keep debris out of motor.
4. Remove stock air box.
5. Remove choke cable from handlebars.
6. Remove carb vent line from bike.

### Carburetor installation

1. Carefully trim the rubber alignment tab off of the face of the manifold with a razor blade or side cutters.
2. Remove the hex pipe plug from the carb cap using a 11mm or 7/16 wrench. **Do not discard plug, as it will be needed later.** Install the metering adjustment tool included in the hardware kit. **Do not over-tighten as damage may occur to cap.**
3. Attach fuel line to carburetor and secure with clamp.
4. Install remote idle cable into tab on top of carburetor. See main manual for this step. **NOTE:** Nut must be removed from cable before installation
5. Place carburetor into manifold.
6. Re-install air box.

### Twist Throttle Instructions

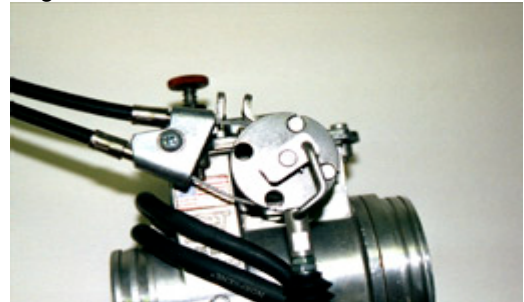
1. Install the throttle cables into the supplied throttle housing and place onto clean handlebar end.
2. Route throttle cables through frame as stock cable was routed.
3. Install the pull cable into the 4:00 position and the return cable end into the 1:00 position of the cable wheel. Secure cables to cable bracket by replacing end piece and Phillips screw. See figure 2.

**NOTE: SEE FIGURE 1 TO IDENTIFY CABLES. The bottom cable is the pull cable.**

Figure 1.



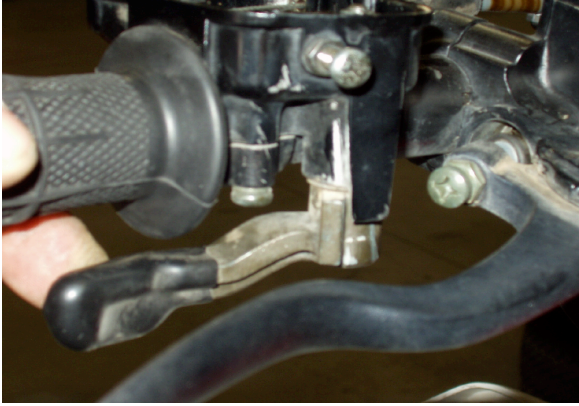
Figure 2.



### Thumb Throttle Instructions

**NOTE:** Modification of the stock thumb throttle housing will be required in order to achieve wide open throttle. Figure 3 will show the mods. Material will need to be removed on the outside throttle stop that limits the thumb lever travel.

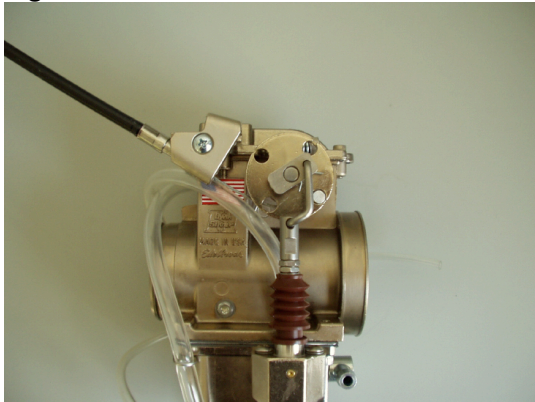
Figure 3.



Once throttle housing has been properly modified and thoroughly cleaned, place and secure back onto handle bar.

1. Thread new throttle cable into housing and insert cable end into throttle lever.
2. Install cable into cable wheel on carburetor in the 4:00 position and secure cable into lower slot on cable bracket by replacing end piece and Phillips screw. See figure 4.

**Figure 4.**



3. Adjust throttle cable to take up the slack in the throttle. **Note: When throttle cables are properly adjusted, there should be approx. 1/8" of free play in the throttle.**
4. After throttle cables have been adjusted the handle bars should be rotated from full right stop to full left stop while opening and closing throttle to ensure smooth operation. Also check to make sure the cables do not catch or bind on anything, i.e., hand guards, stabilizers.
5. Tighten manifold and air boot clamps.

6. Install fuel tank and connect fuel line to petcock and secure with provided pinch clamp. Do not bolt tank in place, as minor adjustments may be necessary and may be easier with the tank off.
7. Turn fuel petcock to "on" and check for leaks.
8. Open throttle 3-5 times to prime accelerator pump. **Do not open throttle any more than 5 times as this may flood engine!!**
9. Once pump is primed, if Motor will not fire open idle cable 1/2 turn and repeat starting process.

**NOTE: If flooding occurs, slowly open throttle to wide open and hold. With throttle still open engage starter until engine fires.**

**For any questions regarding tuning or installation of Edelbrock products, please call our toll free tech line M-F 8:00am-12:30pm, 1:30pm-5:00pm PST. 877-888-7504 ext.2.**

## **Edelbrock #3108 and #3109 Raptor 350 Carburetor Specifications**

---

**Bore Size: 32X36mm oval**

Needle: 17E @ 12 Clicks

Accelerator Pump Bypass: 2.5 turns out

Alternate Needles: 15E, 19E

Replacement Cable

Thumb #9339

Twist #9355