

## INSTRUCTION SUPPLEMENT FOR 2004-Later Yamaha Rhino 660

### Removing stock carburetor and cables

1. Remove engine cover and tunnel (center of floor board).
2. Remove throttle cable from throttle pedal and chassis. See fig 1.
3. Remove choke cable from dash. See figure 2.

Figure 1. Throttle cable



Figure 2. Choke cable



4. Remove stock carburetor, cables and all vent hoses attached to carburetor. NOTE: Carburetor can be removed without disconnecting cables. Unplug black and yellow wires from carb and tape ends with electrical tape as they will not be used with the Edelbrock carburetor.
5. Stuff a dry, clean rag into the intake manifold to keep debris from entering engine.
6. Remove oil line directly above oil filter. See fig 3. Disconnect rubber

hose at bottom where it connects to hard tube. See fig 4.

**NOTE:** Clean oil and dirt off of flange and case before removing oil line.

Figure 3.

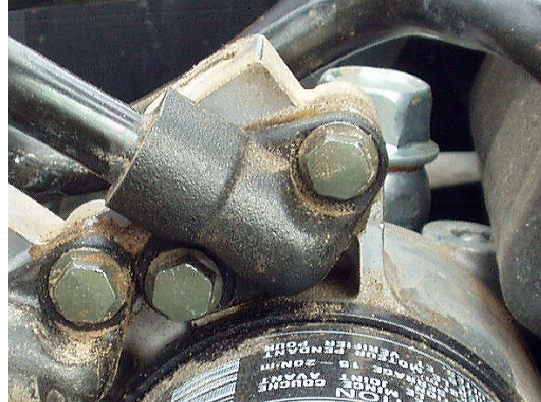


Figure 4.



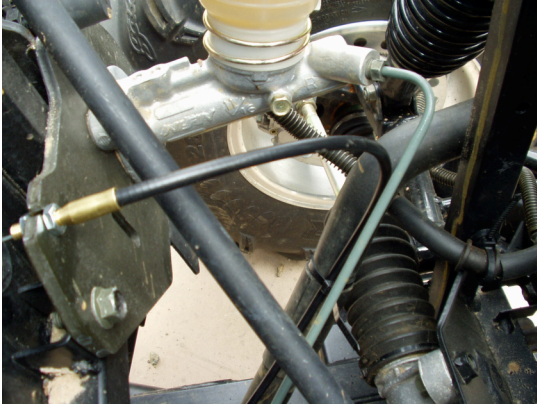
7. Remove stock fuel line from fuel pump. Save insulating material as it will be reused on new fuel line.

### Installing the Edelbrock Carburetor

1. Attach new fuel line to fuel pump reusing stock clamp and insulating material.
2. Install new throttle cable into bracket and throttle pedal. Do not route throttle cable in stock position. Cable will need to be routed to passenger side of vehicle. See figure 5 for cable routing.

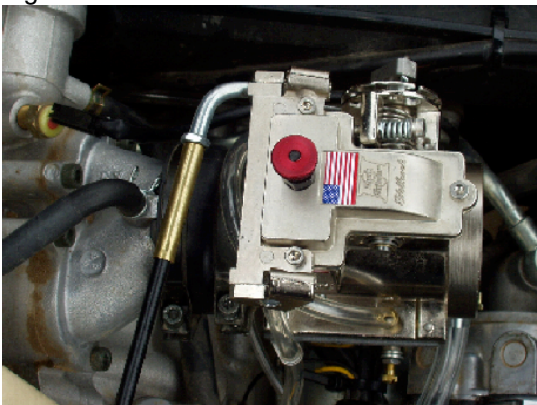
**NOTE:** Apply a small amount of grease to O-ring on pedal end of cable for easier installation into throttle pedal.

Figure 5.



3. 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.**
4. Attach fuel line onto fuel inlet banjo and secure with stock pinch clamp. Fuel line may need to be trimmed to proper length.
5. Place Edelbrock carburetor into manifold. Do not tighten clamp yet.
6. Remove the cable bracket end from cable bracket using #2 phillips.
7. Insert cable end into cable wheel in the 8:00 o'clock position. Place elbow into bottom slot of cable bracket and secure by reinstalling cables bracket end and screw. See figure 6.

Figure 6.



8. Align carburetor as close to vertical as possible and tighten manifold clamp.
9. Adjust cable until wide-open throttle is achieved.
10. Secure clamp around air boot onto back of carburetor.

11. Use supplied vacuum cap to cover elbow on right side (passenger side) of air boot. Secure with supplied zip tie.
12. Carefully remove O-ring from stock oil line flange and place it onto new oil line flange as shown in figure 7.

Figure 7.



13. Wrap the threaded portion of the elbow with Teflon tape and thread into billet oil block until the barb is 90 degrees to the two holes as shown in figure 8. **Do not tighten completely as bolts need to be installed.**

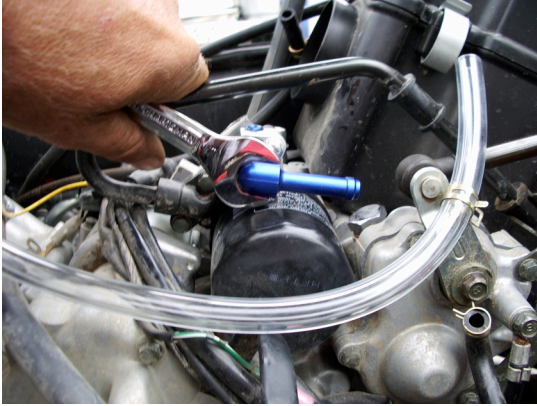
Figure 8.



14. Install block onto engine with the elbow and plug facing up. Secure to motor with two M6X1X30 bolts (supplied). **Be sure no to over tighten as damage can occur to engine case. See manual for recommended torque specs.**
15. Once bolts have been tightened, use a wrench to turn the elbow ¼ forward to tighten as shown in figure 9.

Figure 9.





**NOTE:** Turn elbow until it is just below three o'clock position as shown in picture above.

16. Install hose clamps on each end of supplied 3/8 hose (blue). Lube the inside of both ends of hose with a light oil (WD-40 or similar). Push hose onto oil fitting on engine and the opposite end onto the factory hard tube coming from the front of vehicle. See figures 10 and 11.

Figure 10.



Figure 11.



17. After each end of hose has been installed tighten clamps.
18. Engage starter without opening throttle. **NOTE:** The stock fuel pump is vacuum operated, so it is recommended that the starter be engaged for at least 10 seconds.
19. After fuel has entered float bowl, pump the throttle 3-5 times to prime the accelerator pump.
20. Once pump is primed, start engine. **NOTE: The Edelbrock carburetor does not have a choke system. Cold starts will require 2-3 pumps of the throttle pedal to activate the accelerator pump.**

**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 #3119 Yamaha Rhino 660 Carburetor Specifications**

Bore Size: 40mm round

Needle: 18E @ 14 clicks

Accelerator Pump Bypass: 1.5 turns out.

Alternate Needles: 16E, 20E

Main Jet: 74

Alternate Jets: 72, 76

Replacement Throttle Cables:  
#9353