



**02-04 YAMAHA Raptor 660 Dual
INSTALLATION INSTRUCTIONS**

PLEASE READ INSTRUCTIONS BEFORE ATTEMPTING INSTALLATION

Remove stock silencer, and stock headers. Retain stock flange nuts and gaskets. Place left header onto cylinder (be certain the stock gasket is in the exhaust port). Snug the bolts allowing it to rotate for best fit. Install the right header in the same manner, routing it over the top of the left header tube and snug the bolts. Place the supplied 1/4x1/2" long button head allen bolts and lock washers through tabs on the headers and snug.

Remove upper left fender mount bolts; remove lower left fender mount phillips head bolt and nut. Remove left heel guard bolt (see photo #1). Install left rear chamber by lifting the lower left part of the fender out enough to route chamber through the frame in front of the rear shock and under the air box. Place the stainless steel clamp over the chamber with the bolt facing outward, (see photo #2). Slip the chamber onto the right header until it is fully seated. After you have installed the pipe replace the left lower fender mount bolt and nut. Pull the fender out as far to the left of the ATV as the bolt will allow and tighten. This allows for as much room as possible between the fender and the pipe. Secure the chamber with the supplied 8mm bolt to the heel guard mount. Rotate pipe until it is not touching any part of the frame or fender. Tighten right header bolts, then tighten right header clamp.

Remove the Radiator recovery bottle from the frame. Remove the inner bolt from the fender bracket (see photo #3). Attach the supplied relocating bracket and the supplied 8mm bolt and washer to this location (long leg of the bracket facing forward). Attach your recovery bottle to this bracket with the supplied 1/4" bolts, flats & nylocs and tighten.

Slip the silencer with the "L" stamped on the inside of the bracket onto the left chamber, slide the silencer on until the hole lines up with the upper fender mount and attach the bracket with the supplied 6mm socket head cap screw, flat washer, lock washer and tighten (see photo #4).

Remove the Right heal guard bolt. Route the right chamber between right rear fender and air box. Slide remaining stainless steel clamp on the small end of the chamber and slip it onto left header. Rotating the clamp the same as the other clamp. Be sure it is fully seated and attach bracket to the right heal guard mount with the remaining 8mm bolt and washer then tighten. Tighten left header bolts, then tighten remaining clamp after rotating it the same as the other side.

Place the silencer with the “R” stamped on the inside of the bracket onto the right chamber until the bracket lines up with the upper fender mount and attach with the remaining 6mm x 30mm bolt, flat & lock washer and tighten.

Start from the header bolts and work your way back to the silencers while tightening all mounting bolts to be certain they are all tight before your first ride.

JETTING

All of LTE’S testing was done at 400ft. Above sea level, for higher elevation some adjusting may be necessary.

Remove front plastic/fenders. Turn petcock to the off position and remove the fuel tank. Remove rubber cover from the top of the carbs. Only change one needle at a time in such case as you mix up washers or loose parts you have one to revert back to. Remove plastic cover from the top of the carb. Remove the slide assembly. With a pair of needle nose pliers remove the grey plastic top being certain not to lose the spring or washers. Remove the clip from the needle from the slide placing the washers in order as they came off. Remove the clip from the stock needle and place it on the 4th notch from the top down on your new needle. Replace all washers as they were removed from your stock needle Place the needle into your slide. Be sure the spring is on top of the needle before you replace the plastic top. Place the assembly back into your carb and replace the top with the stock spring and tighten. Repeat these instructions for the other carb.

After the needles are installed and all screws are tight, Loosen clamps at the carbs on the air box side and remove rubber boots. Loosen the clamps on the motor side of the carb and remove the carbs from the manifolds.

Rotate carbs upside down and remove one float bowl at a time. Be sure to use a good Phillips screw driver as not to strip out the screws. Remove the stock main jet and replace it with the supplied 155 in the **LEFT carb / 160 in the RIGHT carb**. Replace your float bowl as you removed it and tighten all screws. Repeat this step for the other carb. Reverse these steps shown here and replace all your stock components.

The first ride you will experience white packing from the end of your silencers, (This is normal) you are blowing out the loose packing from assembly. After your first 30 minute ride, (**LET YOUR ATV COOL DOWN**) Re-check your head pipe bolts, Pipe clamps, rear pipe mounts, and the silencer mounts as they will loosen from the heat.

**Recommended editions to the LTE Raptor Exhaust Kit
PRO DESIGN AIR FILTER KIT, WITH AIR BOX LID REMOVAL**

IMPORTANT MESSAGE—PLEASE READ AND UNDERSTAND!
WARRANTY LIMITATIONS

Looney Tuned Exhaust (LTE) warrants only to the original purchaser the equipment purchased is free from defects in material and workmanship under normal use and service. Components of the equipment are supplied to LTE by others and LTE warrants such components to the purchaser only to the extent that such components are warranted to LTE by the supplier. LTE's obligation under this warranty shall be limited to the repair or exchange of any part or parts which may thus prove defective under normal use and service within one year from date of invoice and which LTE examination shall disclose to LTE's satisfaction to be thus defective. This warranty is expressly in lieu of all other warranties expressed or implied and of all other obligations or liabilities on our part and LE neither assumes, nor authorizes any other person to assume for LTE any other liability in connection with the sale of this equipment or any part thereof which has been subject to accident, negligence alteration, abuse or misuse. LTE makes no warranty what so ever in respect to accessories or parts not supplied by LTE. The term "original purchase", as used in this warranty, shall be deemed to mean that person for whom the equipment is originally invoiced. This warrant shall apply only within the boundaries of the continental United States.

The remedy defined in this statement shall be the Purchaser's exclusive remedy against Looney Tuned Exhaust (LTE).

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