



Handlebars for the long haul

2007-2008 Yamaha YZF R1

Installation Instructions – Part # TS09038 – Page 1

2 ¼" taller * 1/2" rearward * 1 1/4" wider (26 ¼")

**WARNING: IMPROPER INSTALLATION COULD RESULT IN SERIOUS INJURY OR DEATH.
HAVE A QUALIFIED MECHANIC INSTALL YOUR HELIBARS®.**

1. Remove Left & Right damper weights.
2. Remove Left & Right clip-on positioning screws (see **Photo #1**).
 - a. Remove plastic covers.
 - b. Loosen and remove both socket head cap screws.
3. Carefully cut and remove the cable tie holding the front brake hydraulic line against the right fork tube (see **Photo #2**) and remove the clip holding the two throttle cables together. The clip will **not** be re-used with the TracStar installation.
4. Remove the steering damper from the left clip-on mount (see **Photo #3**). Use a 12mm deep socket on top and a 12 mm open end wrench on the bottom. Do not misplace the washer.
5. Loosen and remove the screw that attaches the front brake reservoir to it's plastic mount. Do not remove the plastic mount from the top triple clamp.
6. Remove the top triple clamp.
 - a. Loosen and remove the steering stem nut and washer. Use a 36mm socket and a long breaker bar. Put piece of paper over the nut before loosening. This protects the nut (see **Photo #4**).
 - b. Loosen the Left & Right clip-on pinch bolts, rotate the bars forward to gain access to the top triple clamp fork tube pinch bolts and loosen them only. It is not necessary to remove them.
 - c. Pull up on the top triple clamp while applying some rearward pressure on the front wheel with your shin. Remove from fork tubes and steering stem and place a shop rag under it.
 - d. Remove the left control housing wire loom from the stay by the ignition switch. The extra slack is necessary for TracStar installation.
7. Remove stock clip-ons
 - a. Remove Left control housing from bar.
 - b. Remove Left grip.
 1. Start a thin screwdriver down between the grip and the bar tube. Drip a little rubbing alcohol into the gap and carefully work the screwdriver a bit deeper.
 2. Grab the grip with one hand and twist the grip until it slides off.

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- c. Loosen clutch lever mount pinch bolt, slide bar up and over the fork tube. Loosen the screws that hold the metal stay in position on the bottom of the steering damper mount enough to disengage the opposite side and withdraw the left control housing wire loom. Remove the clutch lever and the left clip-on (see **Photo #5**).
 - d. Loosen the two throttle housing socket head cap screws and back them out quit a bit but do not remove them.
 - e. Spread the two halves of the throttle housing apart enough to disengage it's locking pin.
 - f. Remove the two screws from the right control housing and remove from bar.
 - g. Loosen and remove the front brake master cylinder and clamp from bar. Notice the clamp has an up arrow.
 - h. Remove right clip-on from fork tube and withdraw from the throttle housing.
8. Install TracStar HeliBars
- a. On the left side, slide the clutch lever mount over the TracStar tube and slide the bar down the left fork tube.
 - b. Install the left control housing, engage the locating pin and install cover and screws. Tighten.
 - c. Reposition the throttle cables and the start / kill switch housing wire loom behind the right fork tube. Slide the throttle housing over the right TracStar tube and slide the bar over the right fork tube.
9. Install the top triple clamp.
- a. Line up the top triple clamp over the fork tubes and steering stem and slide down into position.
 - b. Install steering stem washer and nut and lightly tighten them at this time.
 - c. Torque the two triple clamp fork pinch bolts to 12 ft lbs.
 - d. Torque the steering stem nut to 65 ft lbs.
10. Slid the left clip-on up against the bottom of the triple clamp, engage and tighten the 6mm factory alignment screw. Install plastic cap (see Photo #1). Torque the left TracStar fork clamp pinch bolt to 12 ft lbs.
11. Repeat step 10 for the right clip-on. Torque the pinch bolt to 12 ft lbs.
12. On the left side adjust clutch lever to the desired angle. The clutch lever mounting clamp should have a 3/8” gap between the clamp and the control housing (See **Photo #6**). Tighten clutch clamp pinch bolt.
13. Install left grip.
14. Install left bar end damper weight with rubber bushing provided installed (See **Photo #8**). Do not over tighten. Adequate tightness is achieved when the screw has a bit of resistance. If the damper bushing is over tightened it reduces the effectiveness of the dampening vibration.

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15. Slide the throttle housing into position, engage the locating dowel into it's positioning hole and tighten clamping screws.
16. It is necessary to rotate the front brake hydraulic line forward (clockwise) at the master cylinder enough to allow the lever to be lowered into position and for the banjo fitting to clear the right fork tube. Clamp the front brake master cylinder in place on the right TracStar: Use a 6mm hex drive Allen type wrench and loosen the banjo bolt. Rotate the banjo fitting forward about ¼" inch and re-tighten (see **Photo #7**). Carefully rotate the bars to the left until it hits the steering stop. Make sure there is adequate clearance between the master cylinder and the right mirror bolts. If the master cylinder is contacting the fairing, the master cylinder is adjusted to high. Tighten the master cylinder bolts.
17. Install the right damper weight (see **Photo #8**). Do not over tighten. Adequate tightness is achieved when the screw has a bit of resistance. If the damper bushing is over tightened it reduces the effectiveness of the dampening vibration.
18. Install one of the cable ties provided around the front brake hydraulic line in front of the right fork tube and around the left control housing wire loom in the back. Tighten (see **Photo #9**).
19. Position the throttle cables exactly as shown in (**Photo #9**). Install a cable tie in the position shown in **Photo #9** and tighten until the cable tie is snug. Do not over-tighten. Move the bars all the way to the left steering stop, then back to the right stop. The throttle cables should not scuff the inner fairing if installed properly. Readjust if needed.
20. Install the steering damper fork mount on the left fork tube as shown in (**Photo #10**). Position the mount so it is at the very top of the tubes largest diameter. **Photo 10** shows the forks resting on the left steering stop. Make sure it does not touch the fairing but remains within ¼" of it, tighten the clamp. Install the threaded damper rod joint using the (2) washers provided and tighten. Use the threaded hole closest to the fork tube. Go to full left and right steering stops and make sure damper functions properly. Double check all nuts, bolts and screws for proper torque and tightness.

!! CAUTION!! BARS MUST BE TORQUED TO SPECIFIED VALUES. THEY MUST NOT BE OVERTORQUED. OVERTIGHTENED HARDWARE CAN LOSE INTEGRITY.

For questions regarding installation please call 1-800-859-4642.

HELI MODIFIED, INC. ASSUMES NO LIABILITY FOR ANY INJURY OR LOSS OF PROPERTY WHICH MAY RESULT IN IMPROPER USE OF ANY HELIBARS.

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Photo #1



Photo #2



Photo #3



Photo #4

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Photo #5



Photo #6



Photo #7



Photo #8

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Photo #9



Photo #10

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