

# INSTALLATION INSTRUCTIONS

Horizon ST Installation  
Concours 1000 (ZG1000) 1986-2006

P/N: HST04076

2.5" Taller ~ Maximum 6" Rear Adjustable Offset

***IMPORTANT:  
PLEASE GIVE CUSTOMER ENCLOSED INFORMATION!***



Thank you for your purchase of our HeliBars®. They are designed to increase your long distance comfort and improve the handling of your sport motorcycle, and we feel confident you will enjoy them.

Your HeliBars are designed to fit your motorcycle with little to no modifications needed to your stock cables and hydraulic lines. In order to achieve this fit, we do not simply increase the height at the fork tube/triple clamp area. If we were to mirror the angle of your stock handlebars, the HeliBars would not fit and clear your stock equipment, and lock to lock steering clearance would be impossible.

If you hold up the HeliBars and compare it to your stock handlebar, the difference may not be readily evident. One test we can suggest is to take your stock handlebar, and the corresponding HeliBars, and set them both on a flat surface. You can see the angle difference. Then install the left HeliBars, following the instructions. Walk around the front of your bike and look through the windshield. You should see a noticeable difference between your stock handlebar and the HeliBars. Finish the installation, and try them out. We think you'll like them!

### **HeliBars INSTALLATION**

**IMPROPER INSTALLATION COULD RESULT IN SERIOUS INJURY OR DEATH.  
HAVE A QUALIFIED MECHANIC INSTALL YOUR HeliBars.**

**IF WE HAVE NOT INCLUDED SPECIFIC INSTRUCTIONS FOR YOUR MOTORCYCLE, THEN THE INSTALLATION IS SIMPLY A REVERSAL OF THE DISASSEMBLY PROCESS. \*\*NOTE THE LOCATION OF LINES AND CABLES. BE SURE TO CLEAN THE FORK TUBES BEFORE INSTALLATION!!**

**!! CAUTION !! MAKE SURE THE HeliBars ARE FULLY SEATED. TIGHTEN BAR END DAMPER WEIGHTS FIRMLY. AFTER INSTALLATION, MOVE BARS LOCK TO LOCK AND CHECK CLEARANCE OF: 1.CABLES 2. HYDRAULIC LINES 3.WIRES 4.FAIRING 5.FUEL TANK. TORQUE ALL HARDWARE TO MANUFACTURER'S SPECIFICATIONS.**

**IF YOU HAVE INSTALLATION QUESTIONS, PLEASE CALL 1-800-859-4642.**

**HELI MODIFIED, INC. ASSUMES NO LIABILITY FOR ANY INJURY OR LOSS OF PROPERTY WHICH MAY RESULT FROM IMPROPER INSTALLATION OR USE OF ANY HeliBars.**



# WARRANTY / RETURN POLICY

We make every effort to build a quality product so you can fully enjoy your riding experience. Thank you for your order.

HeliBars® may be returned for defects in materials and workmanship within one year from the date of shipment to the original purchaser, in which event the purchaser may receive a replacement set of HeliBars.

If within thirty (30) days of the shipping date you are not satisfied for any reason, you can return the HeliBars. Return policy is valid for original purchaser only. If HeliBars are purchased from a vendor other than Heli Modified, Inc., customer must contact vendor where purchased regarding returns. Refund will be extended to original purchaser only. There are no other warranties which extend beyond this.

Conditions of this 30 day return policy:

1. Bars must not be used as a tie down point. (See attached 'Trailer Instructions').
2. Bars cannot be damaged, dented, or altered in any way.
3. Bars cannot be overtorqued.
4. Refund will be for product purchase price only, and credited to original purchaser only.
5. Product must be returned with all original equipment, documents and in original packaging. There must be no physical damage caused by the customer or by carrier.
6. A Return Authorization Number must be obtained from us before you return the product.

We reserve the right to charge a re-stocking fee of up to 25% if the above criteria are not met.

**THERE ARE NO FURTHER EXPRESS OR IMPLIED WARRANTIES INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. By accepting this product, the consumer agrees to arbitrate and litigate any controversy in the State of Maine, and under the laws of the State of Maine.**

**HELI MODIFIED INC. ASSUMES NO LIABILITY FOR ANY INJURY OR LOSS OF PROPERTY WHICH RESULT FROM IMPROPER INSTALLATION OR USE OF ANY HELI BARS. ALL HELI MODIFIED, INC. PRODUCTS SHOULD BE INSTALLED BY A QUALIFIED MECHANIC. IMPROPER INSTALLATION MAY CAUSE DEATH OR INJURY.**

**Ride Safe and Enjoy!**





## Installation Instructions

### 1986-2006 Concours 1000 (ZG1000) Horizon ST Installation

P/N: HST04076

Part # HST04076 With Hydraulic Line Extensions

Height: +2.5 ~ Set Back: Up to 6 inches

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Installation Overview: A factory service manual would be beneficial. The Horizon ST requires several modifications to be performed before installation. Two hydraulic line extensions are provided to lengthen both the front brake and hydraulic clutch lines at the master cylinders. A handlebar adapter is provided to mount the Horizon ST bar to the front forks and mounts to the four threaded holes (2 per side) that mount the cast stock handlebars.

**1.) These modifications must be performed before the stock bars are removed.**

- A. Remove the damper weights from the ends of the bars. Use a 6MM Hex.
- B. Put a shop rag under the clutch master cylinder. DO NOT remove the clutch reservoir cover at this time. Peel back the rubber cover, loosen and remove the banjo bolt attaching the clutch hydraulic line to the master cylinder. Very little fluid will be lost. (See **PHOTO #1**) Wipe the banjo fitting dry, install one of the hydraulic line extensions with two of the copper washers and the bleeder banjo bolt provided and tighten with a **12MM & a 14MM** wrench. (See **PHOTO #2**) Orientate the upper banjo fitting as per the photo. It may take several tries.
- C. Install the upper banjo to the master cylinder with two of the copper washers and the factory banjo bolt. Tighten (See **PHOTO #3**) Now remove the reservoir cap and bleed the clutch master cylinder using the bleeder valve at the lower line extension banjo bolt. Fill the reservoir to the full mark, clean the cover gasket and install cover.
- D. Repeat steps 1.B and 1.C and install the line extension on the front brake master cylinder. Bleed, fill reservoir and install cover.

**2.) Remove the controls from the stock bars.**

- A. Place rags on the left and right sides of the fairing.
- B. Remove the master cylinder caps and bolts and remove from the handlebar. Disconnect the two wire spade connectors from the master cylinder micro switch then drape the master cylinder on the fairing sides.
- C. Dis-assemble the two halves of the throttle housing and remove the throttle cables. Notice which cable is in front and which one is in back for easy re-assembly. This is a good time to clean the throttle components and lube the cables. Drape the throttle housing/wire loom on the side of the fairing.
- D. Repeat step 2.C on the left side and remove choke cable from the left control housing.
- E. Remove left and right handlebars by loosening the pinch bolt and removing the two M8 socket head cap screws per side. Also, remove any after market handlebar riser if installed.

### 3.) **Reposition throttle and choke cables.**

- A. Carefully prop up fuel tank by removing seat and removing forward tank hardware. Tank must be raised enough to work under it or remove entirely.
- B. Reposition the choke cable so it runs in front of the throttle cables and to the left of the thermostat housing. (See **PHOTO #4**)
- C. Loosen the nuts that attach the ignition coils to the frame backbone via the mounting bracket. (See **PHOTO #5**) Position the choke cable under the bracket, install nuts and pull forward all available slack in the cable and tighten all nuts. (See **PHOTO #6**) Let the choke cable rest by the left side of the steering head. **PHOTO #7** shows the choke cable in the proper position around the thermostat housing
- D. Reposition the two throttle cables so they now come up along the right side of the frame backbone and right of the steering head. Let them rest there for now.
- E. Re-install fuel tank.

### 4.) **Install Horizon ST Handlebars.** Note: Photo used is of an earlier adapter design but mounts exactly as the updated adapter mount supplied. Cover the fuel tank with shop rags, etc.

- A. Clean the top of the triple clamp where the stock bars were installed and install the Heli Adapter as shown in (**PHOTO #8**) with the 4 socket head cap screws provided and torque to **12-14ft lbs**. These are the 4 lower screws, 2 per side. It will only fit one way.
- B. Loosen and remove the 4 upper screws holding the adapter cover in place. Place the Horizon ST bar lower mount in position in the mounting adapter (as shown in **PHOTO #8**), adjust bar left or right to get it even in it's mount. Put the adapter cover in place and install the 4 screws and lightly tighten only at this time. Position the bar risers so they aim at about a 45 degree angle towards the rider. Caution: Make sure the adapter cover is tight enough to keep lower mounting bar from falling onto the fuel tank.
- C. Assemble throttle cable to the throttle housing and leave the two screws very loose. (See **PHOTO #8**)
- D. Assemble choke cable to the left control housing and make sure cable is behind the forks and not tangled

with the left control housing wire loom.

- E. Remove the two inner handlebar mounting clamp screws as shown in **PHOTO #8**. Grab the right handlebar tube (marked) slide the damper end of the tube into the throttle housing and locate the housing dowel into the locating hole in the bar and tighten the two screws firmly. Place the right bar clamping end (with radial groove) into the right upper mounting clamp pivot bore. (See **PHOTO #9**) Engage screw into the radial groove and lightly tighten. **PHOTO #9** shows the end of the bar open but a cap is provided and installed at the factory.
- F. Repeat step 4.E and install the left bar after installation of left control housing into place.
- G. Mount the clutch and front brake master cylinders to the handlebar tubes and lightly tighten at this time. It may be necessary to tighten the pivot joints in order to tighten the control surfaces. See attached sheet about pivot adjustments.
- H. Install damper weights and tighten.

### 5.) **Adjust Horizon ST Handlebars.**

One of the only limitation to the Horizon's full range of adjustability on this model is the stock choke cable. To gain the tallest adjustment range, a longer aftermarket cable will need to be installed. That said, most riders will find the range of adjustment available will be more than satisfactory.

- A. Get familiar with the adjustment pivots, pinch bolts and index marks provided in the separate sheet. After the bars are adjusted to the rider's preference, torque each joints pivot locking pinch bolt to the specs provided. Torque the handlebar mounting adapter cover screws to **12-14 ft lbs**.
- B. Adjust clutch and brake levers to desired up or down angle and tighten clamp bolts starting with the top screw first.



- C. Use the cable ties provided and attach the hydraulic lines to the bar riser tubes.
- D. Double check all work performed. Make sure all pivots are torqued to specs. Move handlebar all the way to the left and then the right steering stops and make sure nothing binds. Star the engine (outside) and let it idle. Move the forks to full left and right steering stops and make sure the RPM stay at idle.
- E. Enjoy photo 10 which shows the location of the stock bar compared to the Horizon ST. Also use this photo to check placement of components.

**!! 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.**

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PROPERTY WHICH MAY RESULT FROM IMPROPER INSTALLATION OR USE OF  
ANY HELIBARS.**





Photo # 2

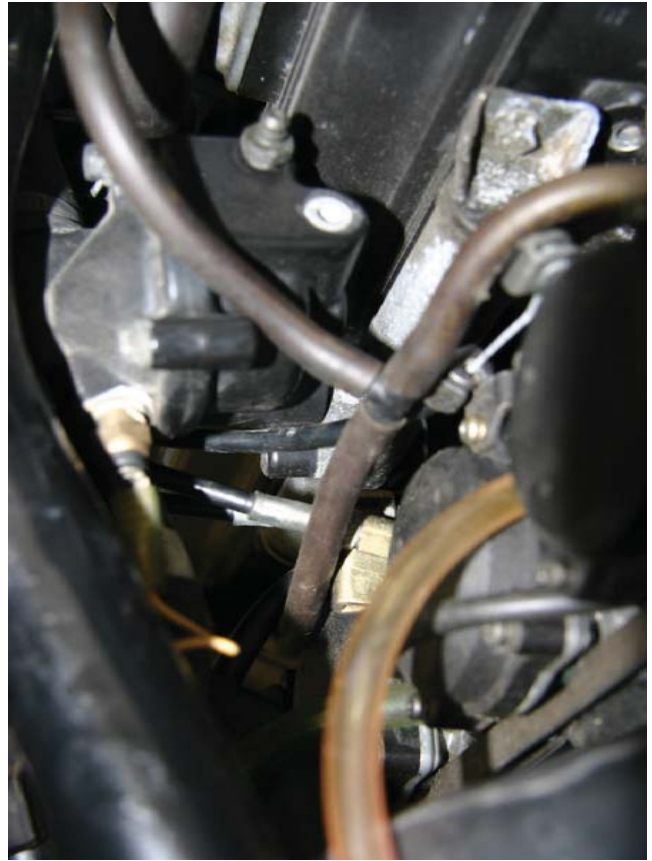


Photo # 4



Photo # 1



Photo # 3





Photo # 6



Photo # 8



Photo # 5



Photo # 7





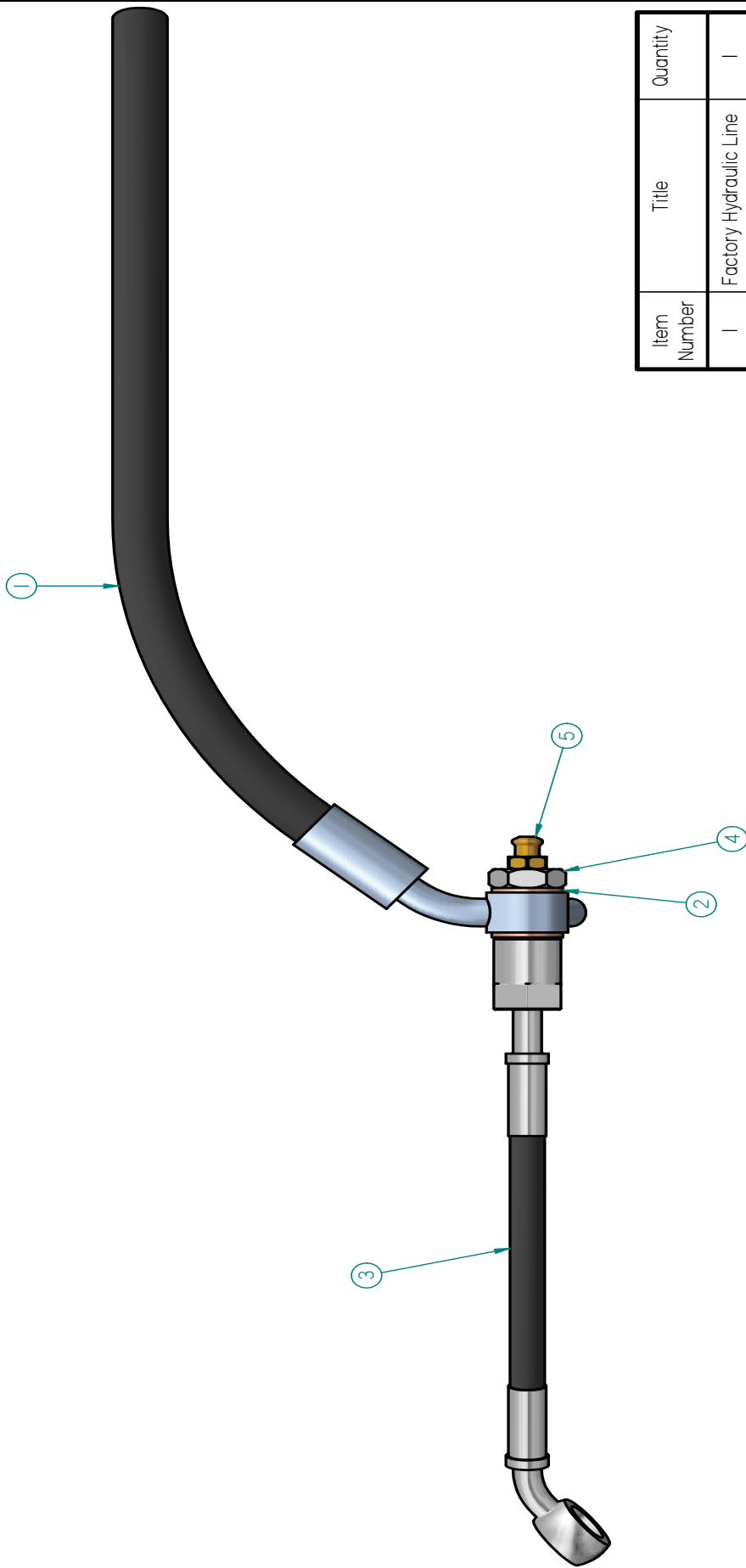


Photo # 10



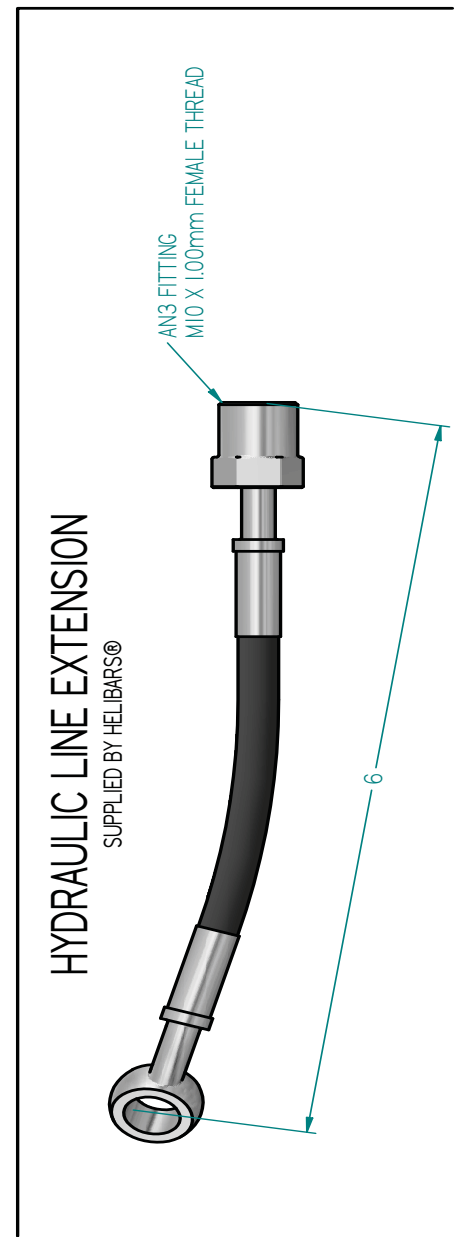
Photo # 9



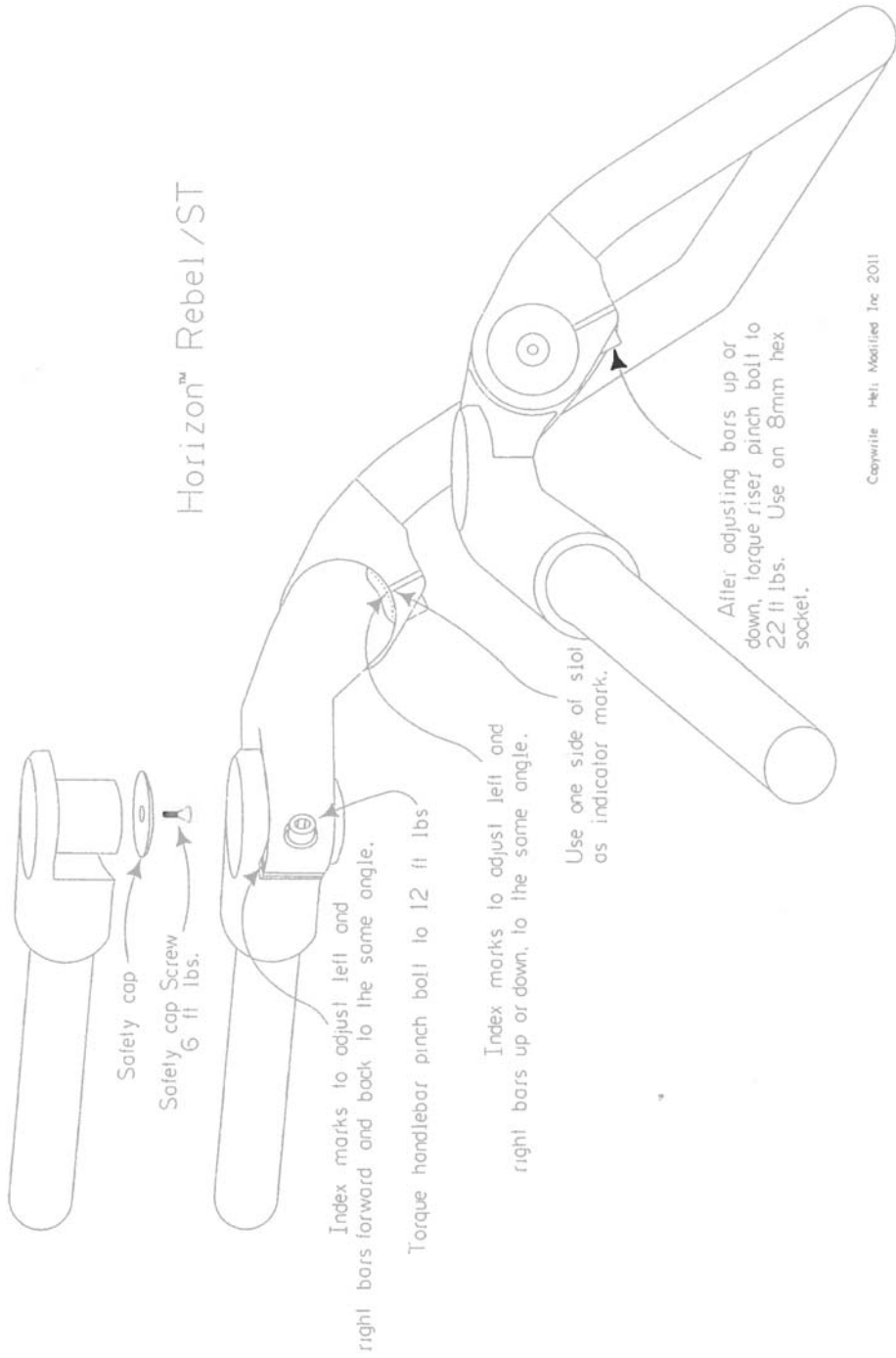


Item Number	Title	Quantity
1	Factory Hydraulic Line	1
2	Crush Washer	2
3	Hydraulic Line Extension	1
4	Bonjo Bolt	1
5	Bleeder Valve	1

<b>HELIBARS</b>	
TITLE	HYDRAULIC LINE EXTENSION (AN3)
SIZE	DWG NO
B	TBD
REV	A
DRAWN BY: Tom	
DATE	06/30/11



# Horizon™ Rebel/ST



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## IMPORTANT INFORMATION ABOUT POWDER COATED HELIBARS

HeliBars® are finished with a polyester powder coating. The polyester is recommended for outdoor use because of its excellent UV resistant quality; if we were to use an epoxy it would tend to fade and chalk pretty quickly when exposed to sunlight and UV rays.

Care must be taken during installation because the finish can be scratched by the sharp surfaces of the controls and master cylinder clamps. When mounting the master cylinders to bars, do not let them move around the bars with the caps loose. Mount them in the proper position and hand tighten the screws until final adjustments are made; in this way you will lessen the possibility of scratching.

NOTE: Powder coat finish is not indestructible, there are chemicals which may react negatively when applied to finish. Brake fluid may cause deterioration of the finish. We do not recommend the use of acetone or similar chemicals for cleaning purposes. We would recommend the use of an over-the-counter adhesive remover (such as Goo Gone) for the removal of any extraneous material. Please read labels directions for any cleaning/polishing product before use. If you have any questions regarding the use of any over-counter-products with the HeliBars, please call us before applying them to the powder coated finish.

If care is taken during installation, your HeliBars will continue to look as good as when they were new. They will look great for years to come with a bit of wax and careful cleaning. Thank you for your purchase, ride safe and enjoy!

Sincerely,

Harry Eddy, President



~ PO Box 638 ~ 20 Industrial Way ~ Cornish, ME 04020  
Toll Free: 800-859-4642 ~ Int'l: 207-625-4642 ~ Fax: 207-625-3024 ~ [www.HeliBars.com](http://www.HeliBars.com)

# Trailing with HeliBars®

HeliBars clip ons and handlebars must not be used as the primary holding points for tie downs while trailering. *As with your stock bars* applying extreme force to the ends of the bars can bend the bars or rotate them on their mounts.

Use a wheel chock and pull the machine down and forward using soft ties or similar, attached to the lower triple clamp.

Bars should only be used as secondary attachment points to steady the motorcycle from lateral sway.

Failure to follow these guidelines can cause damage to the bars and the motorcycle, and may also void our warranty.

