

# INSTALLATION INSTRUCTIONS

Honda ST1300  
Horizon-ST Multi Adjustable Handlebars  
P/N: HST01061

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



Thank you for your HeliBars® purchase.

HeliBars are designed to increase your long distance comfort and improve the handling of your motorcycle, and we feel confident you will enjoy them. The Horizon ST is the most technologically advanced handlebar system to ever grace a motorcycle. Many safety features have been included in the design. It is of the utmost importance the bars are installed by a mechanic with good mechanical skills following the installation instructions provided.

### **HeliBars INSTALLATION**

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

**BRAKE FLUID CAN BE CORROSIVE TO PLASTIC & PAINT. PLEASE USE CAUTION WHEN WORKING WITH YOUR HYDRAULIC SYSTEMS. ENSURING ALL WORK AREAS ARE PROTECTED.**

**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.**



## **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!**





**Honda ST1300, 2003-2015  
Horizon-ST Replacement Handlebars  
Installation Instructions**

**P/N: HST01061**

**Maximum 4" Taller ~ Maximum 5" Rearward ~ Maximum 2" Wider**

---

**IMPORTANT!!** If aftermarket risers have been installed, they **MUST** be removed. Attempting to install the Horizon ST system on altered height risers could be dangerous and available cable slack would not allow safe operation.

Heli Modified expressly discourages the installation and use of the Horizon ST handlebar system on Honda ST1300's with modified handlebar mounting clamps.

1. Remove the handlebar mount center cover on the top triple clamp by removing the two screws. Use a 4mm hex wrench (**See Photo #1**)
2. **Loosen and remove the two inner handlebar mounting bolts. Use a 12mm socket. (See Photo #2)**
3. Remove the four chrome caps that cover the remaining handlebar mounting socket head cap screws. We recommend the careful use of a utility knife. (**See Photo #3**) Do not loosen or remove the remaining mounting bolts at this time.
4. Disconnect the two wire connectors from the micro switches on the clutch and front brake master cylinders. (**See Photo #4**)
5. Loosen and remove the right side button head screw that attaches the metal stay that holds the front brake hydraulic line and throttle cables at the front of the top triple clamp. (**See Photo #5**) Pull out the two throttle cables and reinstall screw and tighten
6. Install hydraulic line extensions:

**CAUTION: HYDRAULIC LINES MUST BE INSTALLED  
BEFORE STOCK HANDLEBARS ARE REMOVED.**

**It will not be possible to install the hydraulic line extensions after the Horizon ST handlebars are installed as the master cylinders will not reach the handlebar tubes. Install the lines FIRST.**

**Protect all of these surfaces when working with brake fluid.**

- 6a. Place a rag below the clutch master cylinder. Loosen and remove the banjo bolt. As shown in **Photo #6**.
- 6b. Take one of the hydraulic line extensions, one of the bleeder banjo bolts and 2 of the sealing washers provided and attach it to the stock clutch hydraulic line banjo fitting as shown in **Photo #7**.) Just hand tighten at this time.

6c. Attach the upper banjo fitting of the hydraulic line extension to the clutch master cylinder using the stock banjo bolt and two sealing washers provided (one on either side of the banjo fitting.) Rotate the banjo fitting clockwise until it hits the forward tab. (See **Photo #8**) Torque to 12 ft lbs. using a 12mm socket.

6d. Tighten the lower banjo fitting (see **Photo #7**) using 12 & 14mm wrenches. Tighten firmly. Lightly tighten the bleeder screw at this time.

**6e. Repeat steps a through d** to install the hydraulic extension line onto the front brake stock hydraulic line. Position the banjo fitting so it contacts the stop as shown in **Photo #9**. Torque to 12 ft. lbs. Firmly tighten lower fitting. Lightly tighten bleeder screw at this time. The lines will be excessively long. Just let them cross each other below the instruments if needed.

7. Loosen and remove the two clamping bolts, remove the caps and the master cylinders from the stock handlebars (See **Photo #10**). Place them on a rag on top of the fuel tank. It is a good idea to temporarily tie the two master cylinders together to keep them from sliding off the tank. (See **Photo #11**)

8. Loosen and remove the two screws from the left handlebar control housing, separate the two halves and disengage the dowel pin located on the bottom half from the locating hole in the handlebar tube. Remove from handlebar tube and set it on a rag on the side of the fairing. (See **Photos #12**). Note that the longer screw goes into the rear hole. Remove the left control housing wire loom from the clip holding it in place on the bottom side of the left handlebar. Remove the left handlebar by loosening and removing the final two screws (See **Photo #14**).

9. Loosen and remove the two screws that hold the throttle housing together, push down on the lower half of the housing to dislodge the locating pin and slide the throttle down the bar a couple of inches. (See **Photo #15**)

10. Loosen and remove the last two mounting screws from the right handlebar, withdraw it from the throttle housing and set the throttle housing on a rag on the side of the fairing. Remove wire loom from handlebar clip.

11. Remove throttle cables from the throttle housing.

11a. Loosen the lock nut on the (pull) throttle cable adjuster and thread it all the way to the end of the elbow as shown in (**Photo #16**). Use an **8 & 10 mm wrench**.

11b. Push the cable off the throttle sleeve. (See **Photo #17**) Lift the throttle sleeve out of the housing and remove the push cable end (See **Photo #18**).

11c. Remove pull cable from throttle sleeve. (See **Photo #19**)

11d. Loosen both throttle cable nuts as shown in **Photo #20**.

11e. Unthread the push cable nut from the throttle housing and remove cable (See **Photo #21**.) This is the lower cable.

11f. Un-thread the pull cable lock nut and slide down the elbow. Measure the amount of threads showing from the throttle housing and write it down. (See **Photo #22**) This measurement will be used when reassembling throttle cables.

11g. Hold throttle housing in one hand and unthread the pull cable counter clockwise with the other hand. (See **Photo #23**.)



12. Install the handelbar clamp adapter:

12a. Remove factory handlebar mount using a 12mm socket on top and a 14mm socket on the bottom. **DO NOT DROP** the large washer. After the first nut and washer is removed . Leave the bolt in place until the second nut is loosened and removed. Remove stock mount. (See **Photos 24A & 24B.**)

12b. Install the Horizon Handlebar Adapter as shown in **Photo #25**. Re-install bolts, washers and nuts. **Torque to 14ft lbs.** Remove the top handlebar clamp & 4 screws and set them aside for now.

12c. Install the Two 1” black caps to cover the bolt holes and one 7/8” cap into the steering stem as shown in **Photos #26A & 26B.**

13. Re-route throttle cables:

13a. Turn the forks all the way to the left steering stop. Look down the right side of the forks and find the cable guide holding the throttle cables above the lower triple clamp. Pull both cables out from the guide as shown in **Photo #27.**

13b. Kneel down by the front wheel and look above the radiator on the right side of the bike. Locate the throttle cables and push them to the left side of the bike forcing them from the cable guide. (See **Photos #28A & 28B.**)

13c. Pull the throttle cables forward and straight out below the fairing and above the front wheel. Cover the ends with a rag to protect fender, etc.

13d. Put the fuel tank in the service position. Remove seat. Loosen rear tank bolts but do not remove bolt. (See **Photo #29**). Use 10mm socket and wrench.

13e. Remove the two fuel tank forward bolts. Use an 8mm socket. (See **Photo #30**) Do not allow the spacer/washers to fall out of the rubber tank grommets.

13f. Lift the front of the tank, slide it back and use the prop rod (located under the passengers seat area) and put it in place. See service manual. **Photo #29** shows the slot the rear tank mounting bolt will slide back on.

**To Remove Air Box**

13g. Unplug connector from the back of the air cleaner top cover. (See **Photo #31.**)

13h. Remove a total of 9 screws. Use caution to not drop them. (See **Photo #32**) Remove cover and set aside.

13i. It is advisable to take a photo of the stock layout to avoid confusion. Note the location of the different shaped snorkels. Bend the tabs up to remove attachment screws. (See **Photos #33A & 33B.**) Remove 4 snorkels.

13j. Remove the 4 snorkle mounts. Use caution to not drop any screws. Lay out the parts with their screws for easier re-assembly. (See **Photo #34.**)

13k. Remove forward hose from fitting by releasing spring clamp. See Photo #35. Remove the rear hose from fitting by releasing spring clamp. (See **Photo #36.**) Remove air filter element.

*Continued on page 27*







Photo # 2



Photo # 4



Photo # 1



Photo # 3







Photo # 6



Photo # 8



Photo # 5



Photo # 7







Photo # 10



Photo # 12



Photo # 9



Photo # 11







Photo # 14



Photo # 16



Photo # 13



Photo # 15





Photo # 18



Photo # 20



Photo # 17



Photo # 19







Photo # 22



Photo # 24A



Photo # 21



Photo # 23







Photo # 25



Photo # 26B



Photo # 24B

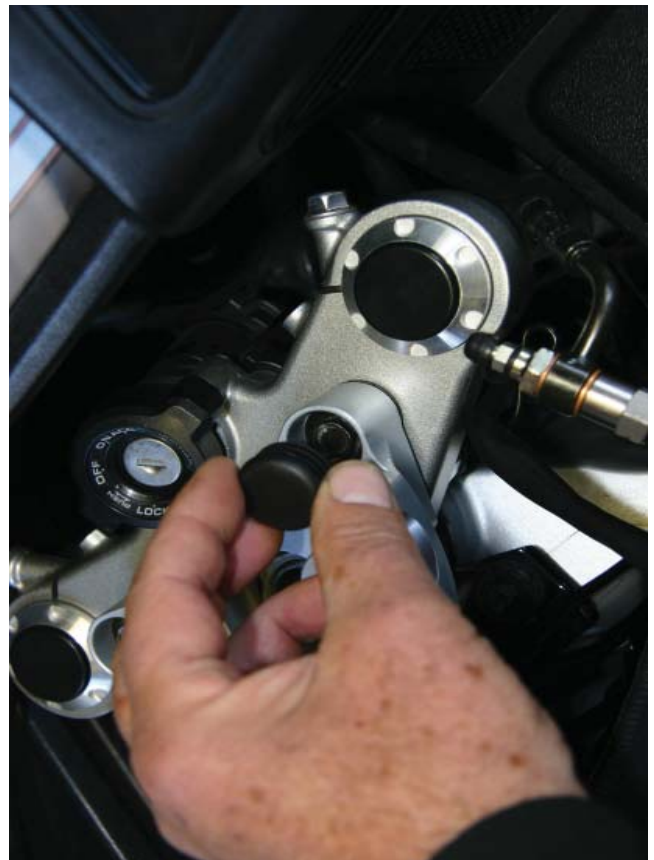


Photo # 26A





Photo # 28A



Photo # 29



Photo # 27



Photo # 28B







Photo # 31



Photo # 33A



Photo # 30



Photo # 32





Photo # 34



Photo # 36



Photo # 33B



Photo # 35







Photo # 38

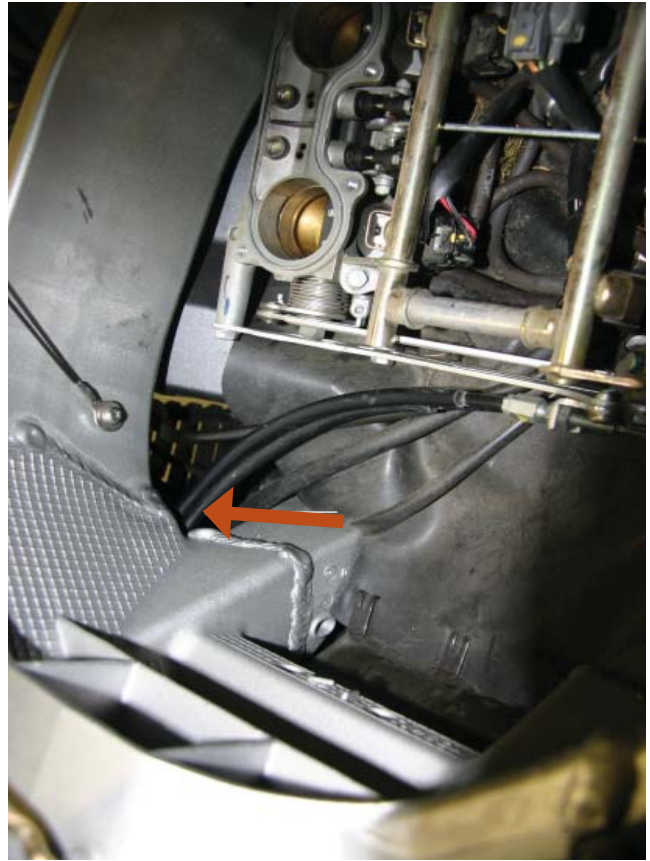


Photo # 40



Photo # 37

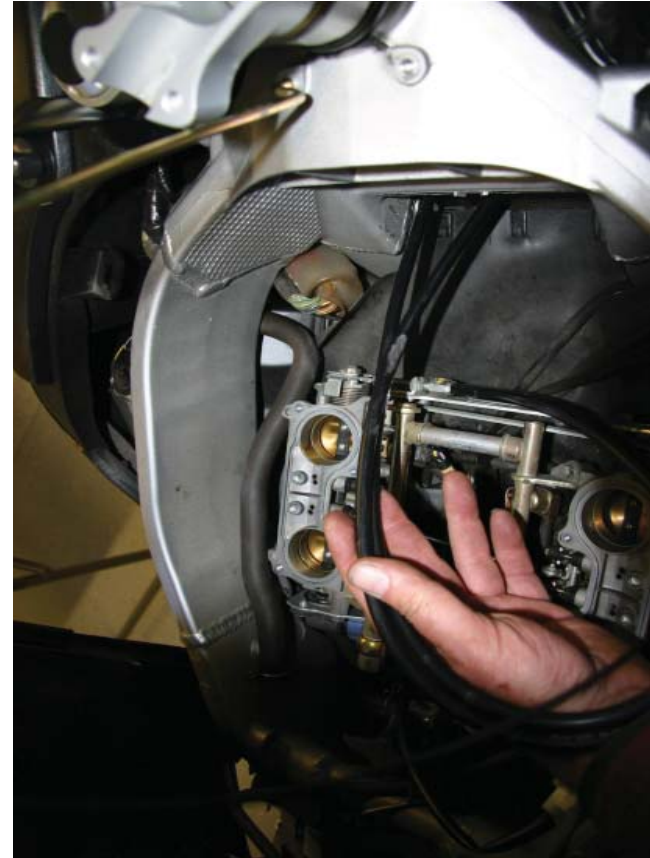


Photo # 39





Photo # 42A

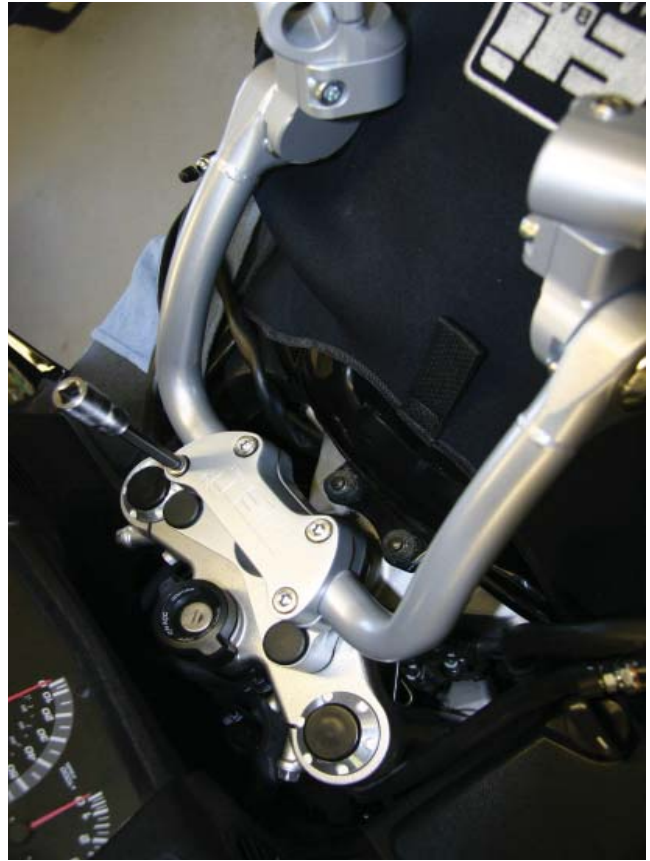


Photo # 43



Photo # 41



Photo # 42B







Photo # 45



Photo # 47



Photo # 44



Photo # 46





Photo # 48B

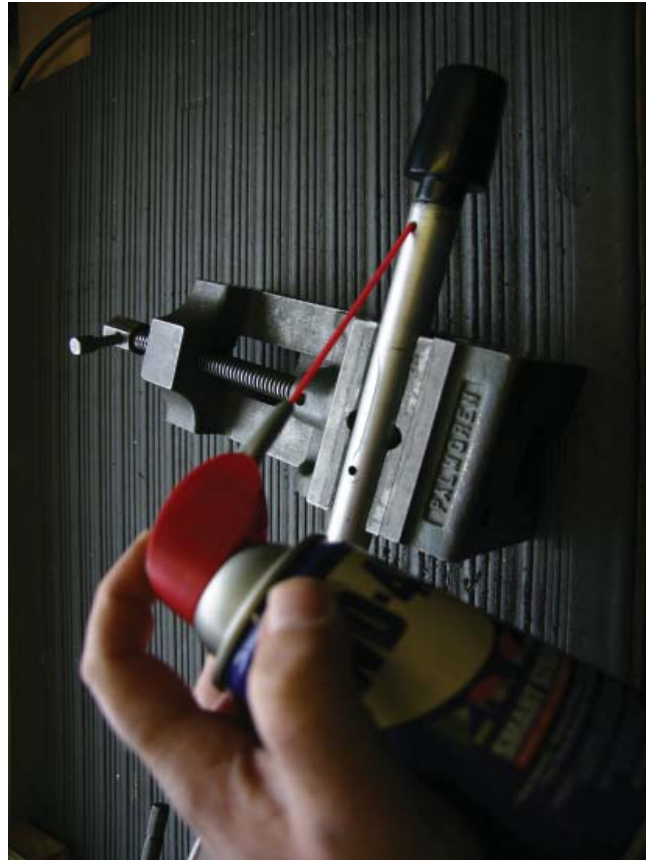


Photo # 48D



Photo # 48A

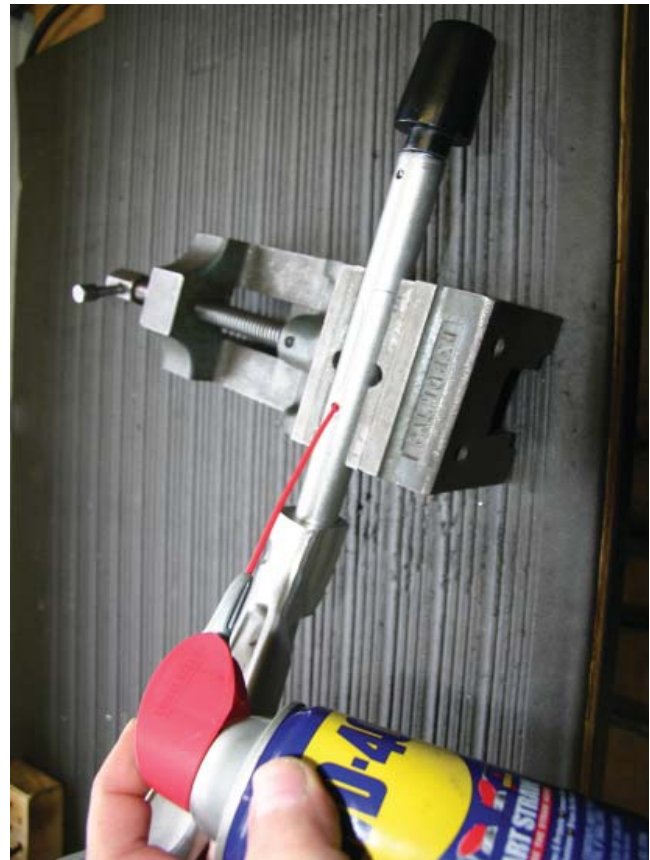


Photo # 48C







Photo # 48F



Photo # 48H



Photo # 48E



Photo # 48G





Photo # 50



Photo # 52



Photo # 49



Photo # 51







Photo # 54



Photo # 56



Photo # 53



Photo # 55





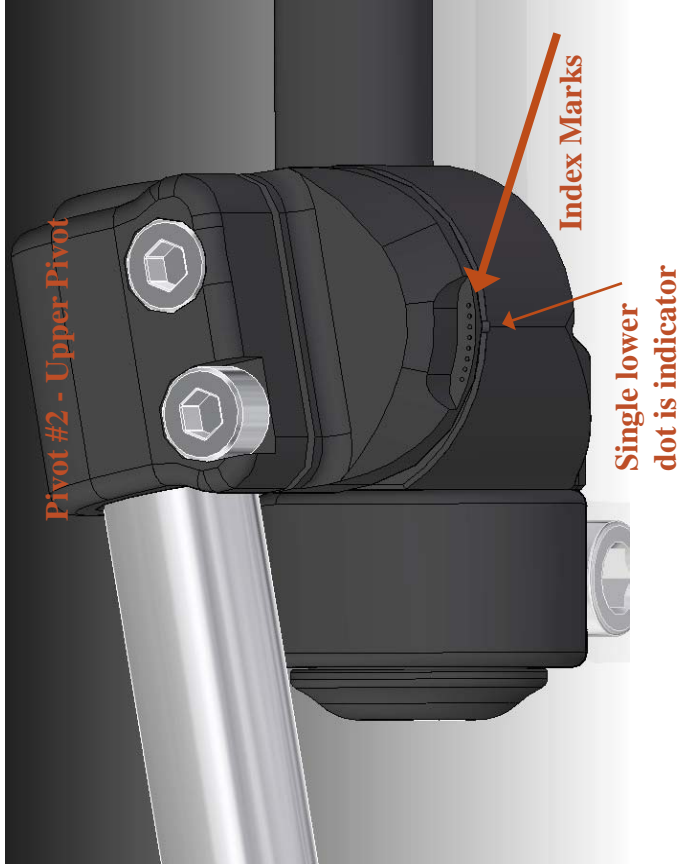
Photo # 58



Photo # 57



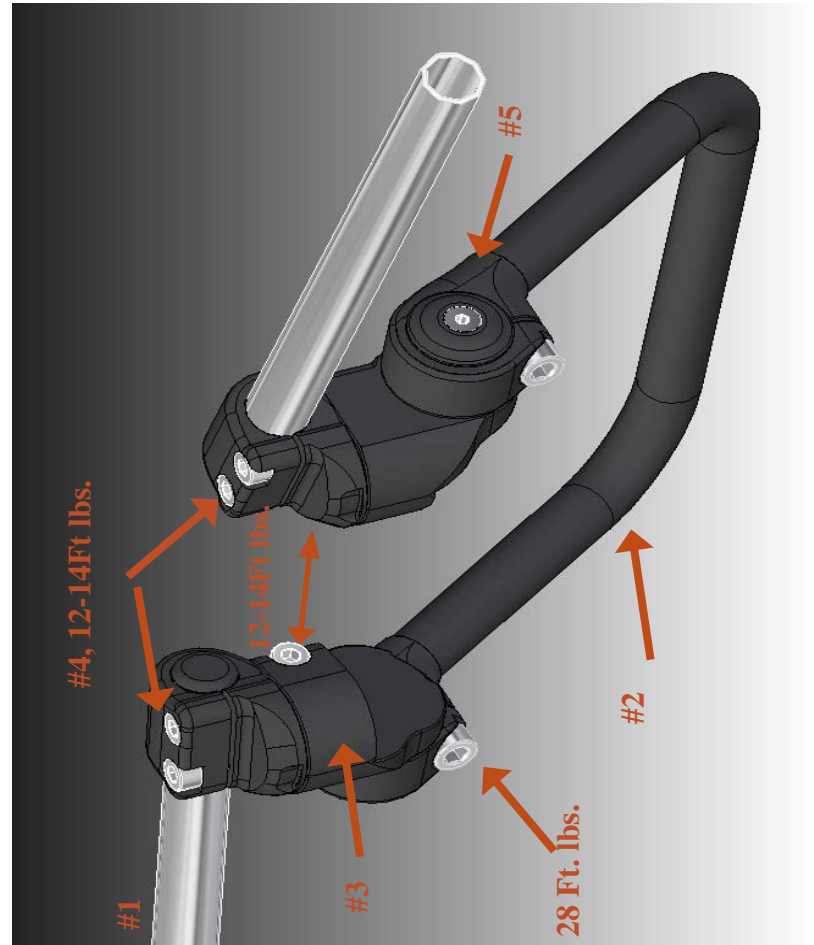
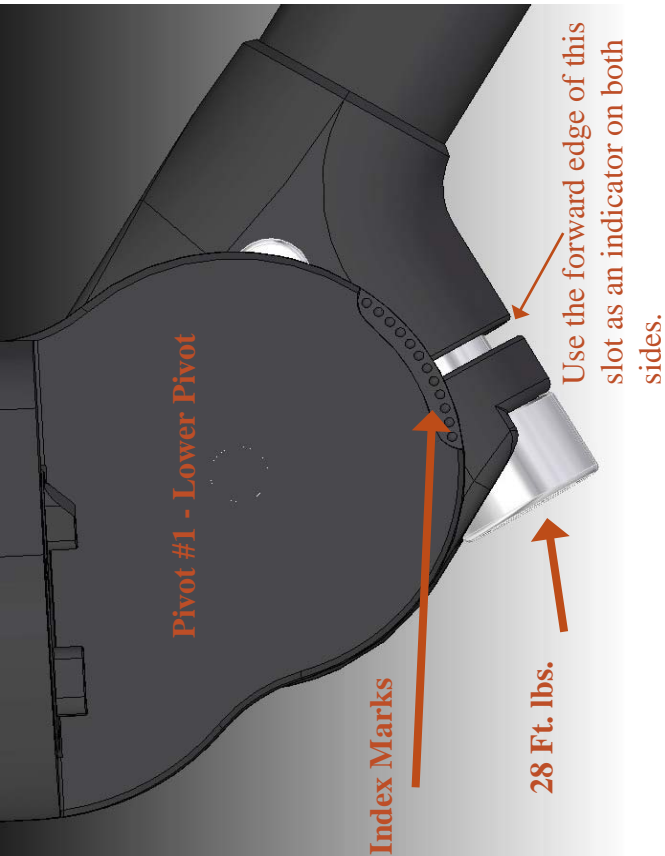




A. On the lower and upper pivots, match the settings on both left and right side so adjustments will be mirrored.

B. Make forward and back adjustment of the entire handlebar system by loosening the 4 8mm screws that clamp the handlebars to the fork. As detailed in **Photo #15**. After Adjustment is made, torque the 4 screws to 14 ft lbs.

1. Handlebar Tube
2. Lower Assembly
3. Pivot 1
4. Pivot 2
5. Pivot Clamp







- 13l. Carefully remove air filter housing. (See **Photo #37**). Photo shows forward air inlet snorkel removed but this is NOT REQUIRED. Find the throttle cables. (See **Photo #38**.) Arrow shows position as stock.
- 13m. Pull cables carefully out from steering head area. Note, the top cable is the pull (open throttle.) (See **Photo #39**)
- 13n. Carefully re-route the cables to the outside of the frames right side down tube. (See **Photo #40**.) Start with the lower throttle cable (push). The cables will emerge between the frame and the fairing inner panel within the slot. (See **Photo #41**.) Leave cables behind the top triple clamp and just let them hang for now.
- 13o. Re-attach air filter lower housing hoses (2). Before positioning lower air filter housing over throttle bodies, slide the forward rubber hose up and into rubber holder located on the back side of the air intake snorkel. (See **Photo #42A**.) Re-assemble air filter housing, snorkel mounts, snorkels by **reversing steps 13g-13l**. Remember to plug in top connector (See **Photo #31**.)
- 13p. Before tank is put back into place, remove the cable tie that holds the left side control housing wire loom to the fairing mount. (See **Photo #42B**.) Pull up to get as much slack as is available.
- 14.
- 14a. Install Horizon ST riser assembly, put cover in place and adjust riser left or right to position it evenly. (See **Photo #43**)
- 14b. Raise bar up and at about a 50 degree angle as shown in **Photo #44**. This is a good starting point. Tighten lower mount enough to keep bar from sliding around.
- 14c. Remove the inner screw from the left top riser clamp (See **Photo #45**). Take the left handlebar tube, insert it in to the left bar clamp and re-install the screw making sure to engage the safety groove. Bar should be flush with the inner face of the upper clamp. Torque the two bar clamping screws to **12 ft. lbs**. Install the left control housing and tighten. (See **Photo #46**.)
- 14d. Install 7/8 plastic cover (**Photo #47**) on inner end of left bar.
- 14e. Remove damper weight receivers from stock bars. Use WD40 to lubricate through holes in stock bars. (See **Photos #48A through 48H**.) Use the damper weight to grip and remove assembly. Press in both clips through the holes at the end of the bars.
- 14f. Insert end of the dampers into the left bar by aligning the end clip ears with the two holes in the Horizon bar tube end. Remove damper weight after the assembly is in place. Install left grip using alcohol as a lubricant and install damper weight.
- 14g. Install clutch master cylinder onto bar. Leave a bit of space between the reservoir and the top pivot clamp. (See **Photo #49**.) Re-attach micro switch connectors.
- 14h. Remove rubber grommet from left control housing wire loom by unwinding vinyl tape. (See **Photo #50**.) Set aside for a few minutes.
15. Re-assemble throttle cables to the throttle housing using earlier instructions reversed.



16. Insert the last damper assembly into the right bar. See **Photo #51**. Remove damper weight when finished.
17. Slide the throttle housing over right bar, (see **Photo #52**.) Insert into top clamp catch inner bolt and torque to **12 ft. lbs.** (See **Photo #53**) Install the last 7/8" plastic cap. Slide throttle housing to engage locating hole with dowel and tighten. Install and tighten last damper weight. Install front brake master cylinder.
18. Place throttle cables only into guide as shown in **Photo #54**. Place cable tie around throttle cables and wire loom as shown and tighten. Place a second cable tie over hydraulic line, cables, wire loom and riser tube as shown in **Photo #55**. Make sure wire loom is NOT inside the cable guide with the throttle cables.
19. Take the grommet you took off the left control housing wire loom and place it over the swedged area of the clutch banjo fitting as shown in **Photo #56**. This will keep the fitting from damaging the powder coat finish on the riser. Place a cable tie as shown in **Photo #57**. Keep the fittings contacting the riser tubes. If necessary the hydraulic line extensions can be rotated if they are not clocked (rotated) in the best location. See **Photo #58** for the right side.
20. Adjust the bars to desired position by loosening the appropriate pinch bolts. See **Page 25** for location and torque values for all the pivots. Do to the great degree of rotation allowed by some of the pivots, it's possible that an adjustment to the banjo fittings at the master cylinder may be necessary. Just loosen the banjo bolt enough to rotate the fitting to desired location and re-tighten. Bleed the clutch and the front brake hydraulic lines at the bleeder valves located on the bottom of the hydraulic line extension. This is the only area that needs bleeding as both master cylinders will recover quickly. Tighten bleeders, clean any fluid and re-install caps. Be certain all pinch bolts are properly torqued. Handle bar mounting cover screws should be torqued to **14 ft. lbs.**
21. Read and understand the adjustment and torquing guide supplied with these installation instructions.

### CAUTION:

There are a total of 12 screws that must be verified as being torqued before machine is ridden.





## 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



## 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.

