



**RIVA RACING**  
PERFORMANCE PRODUCTS & ACCESSORIES

## **Pro-Series Steering System Lower** **PART# - RK20090-L**

We strongly recommend the use of a service manual to familiarize yourself with the various components and procedures involved with this installation. Please note that some of the original hardware removed in the disassembly process will be used in the installation process. These instructions have been written in step-by-step format and refer to illustrations as if your craft is already equipped with our Pro-Series Steering System (part# RK20090-U-8.75). We suggest reading through the instructions entirely before performing installation. Please follow these step-by-step instructions and illustrations carefully.

**APPLICATION(S):** Kawasaki Ultra 300/260/250 with RIVA Pro-Series Steering System (part# RK20090-U-8.75)

**NOTE:** For craft equipped with complete stock steering use instructions supplied with RIVA Pro-Series Steering System (part# RK20090-U-8.75) to remove stock steering upper.

### **- INSTALLATION INSTRUCTIONS -**

Remove start/stop switch assembly.

Remove throttle cable from throttle lever. **NOTE:** Ultra 300 models should remove throttle lever assembly if equipped.

Remove handlebars.

Remove Pro-Series Steering upper assembly from stock steering plate (4 bolts),

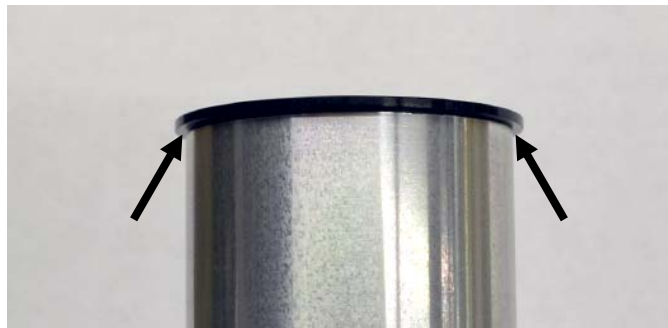


Loosen bolts securing upper to riser tubes (2 per side).



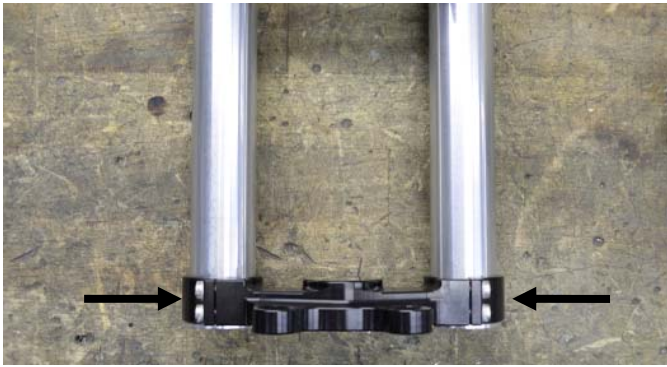
Carefully slide upper down on riser tubes.

Remove black billet caps from top of riser tubes by carefully prying edges up evenly.



Carefully remove upper from riser tubes.

Loosen bolts securing lower to riser tubes.

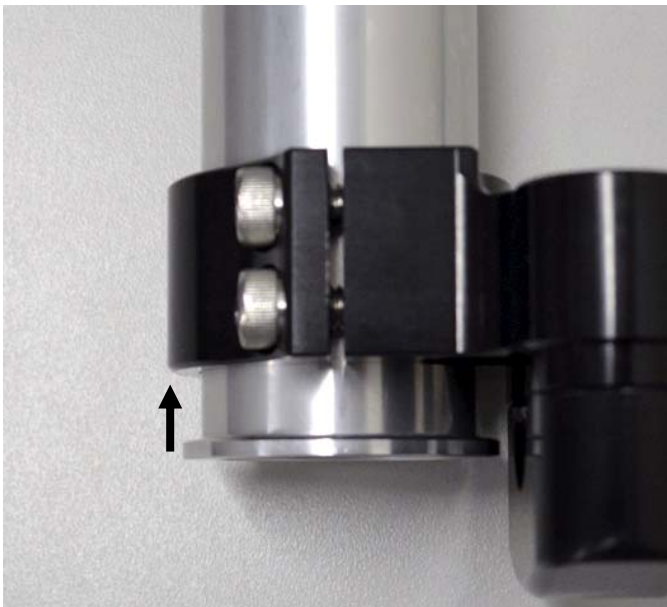


Carefully remove riser tubes from lower.

Loosen bolts for riser tube clamps on supplied lower.

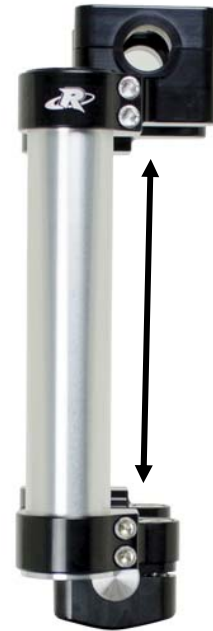


Carefully slide one riser tube up into lower until flange or riser tube stops against lower. Remove bolts, apply red Loctite and secure. **NOTE: Do not over tighten bolts.**



Do the same for opposite side.

Carefully slide upper onto riser tubes and down at least half way. **NOTE: When looking down at assembly upper bar clamp should be directly over lower steering clamp.**



Replace black billet end caps in riser tubes. **TIP:** Apply glass cleaner to o-rings on end caps. Press evenly ensuring o-rings do not dislodge from o-ring grooves.

Place upper at desired height on riser tubes. Remove bolts, apply red Loctite and secure. **NOTE: Do not over tighten bolts.**

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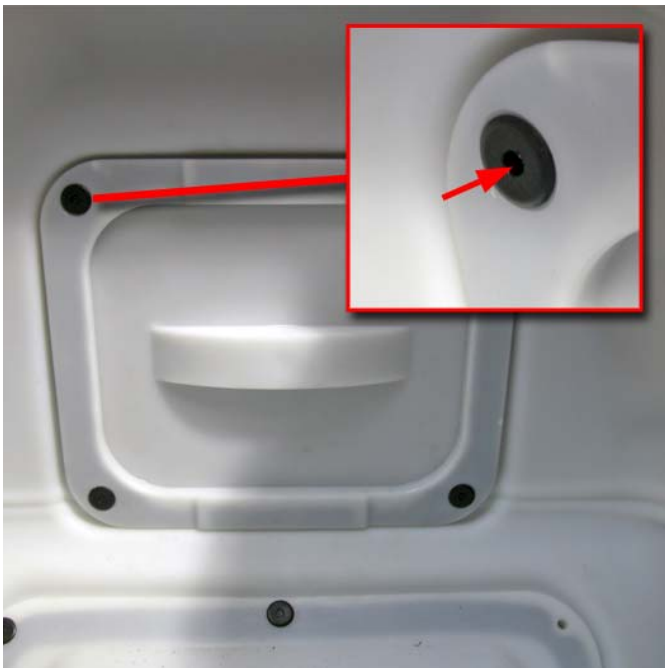
Proceed to next page.

On craft remove bolts (2) securing grommet to stock steering plate.

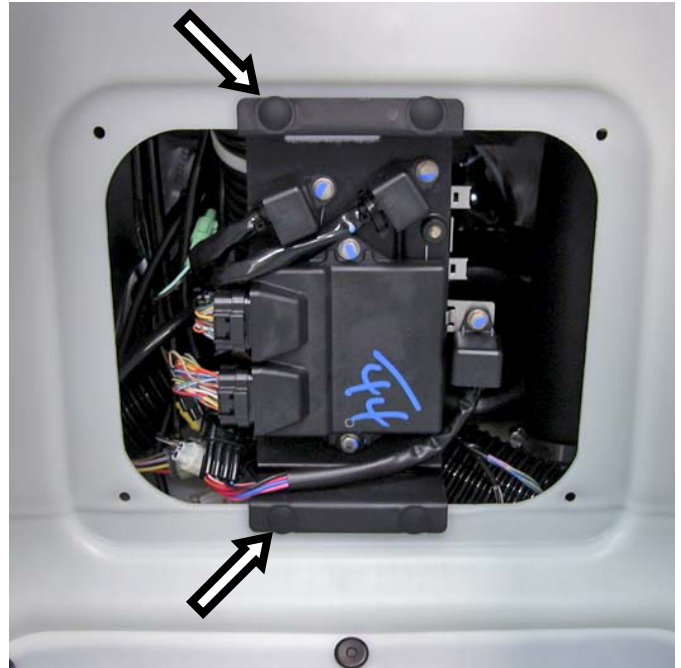


Remove grommet from stock steering plate. Remove throttle cable, temperature sensor wire and buzzer wire from grommet.

Inside front storage compartment remove storage tray.  
Remove upper inspection hatch.



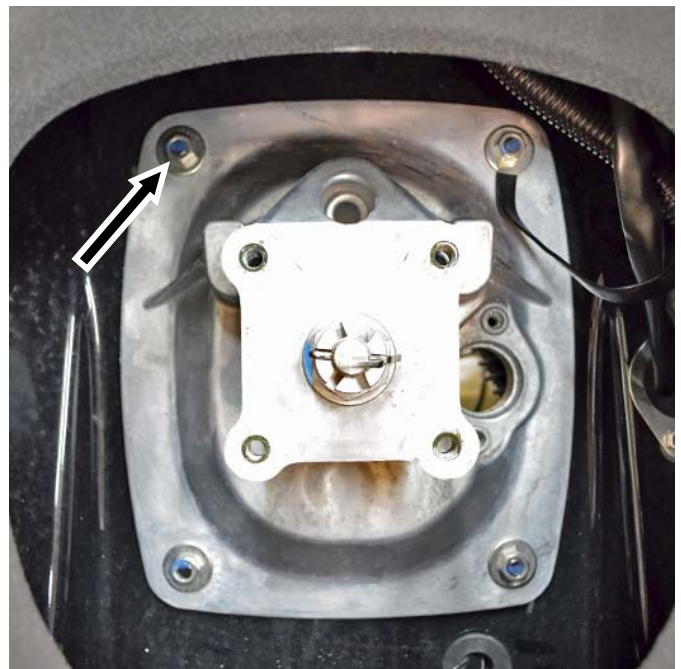
Remove ECU bracket by carefully prying ends away from bulkhead.



Follow wires from steering controls down into hull and disconnect. Carefully pull wires up and out of stock steering plate.

Carefully pass throttle cable, temperature sensor and buzzer down through opening in stock steering plate.

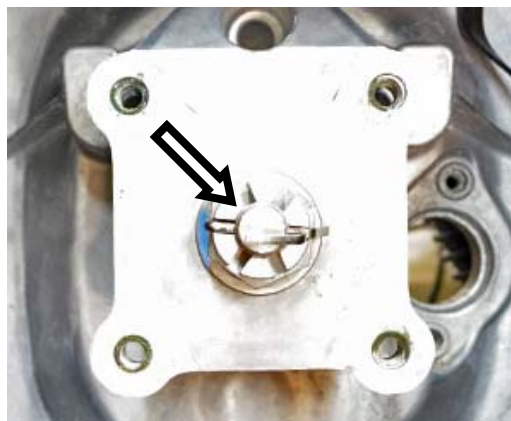
Remove stock steering plate (4 nuts & washers).



Flip stock steering plate over. Remove Off Throttle Steering sensor (2 screws).



Remove cotter pin and castle nut from top of stock steering.



Remove steering mount from steering shaft. Rotate steering shaft until Off Throttle Steering magnet is visible through opening in steering plate.

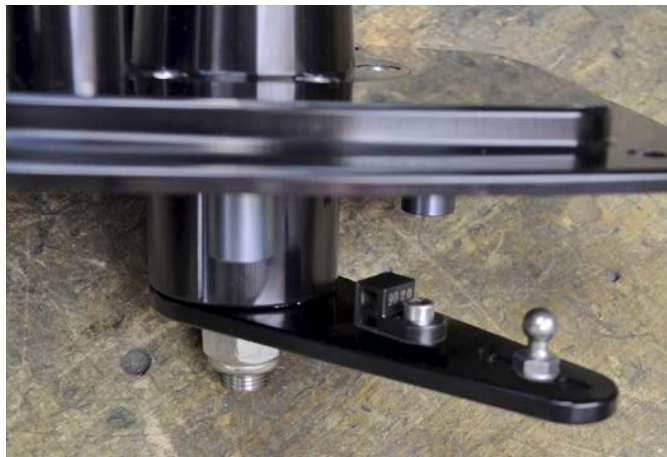


Remove Off Throttle Steering magnet (1 screw).

Remove ball joint from stock steering arm.

Install Off Throttle Steering magnet onto top of steering arm on supplied Steering System Lower using supplied socket head cap bolt. **NOTE: Apply red Loctite to threads. Do not over tighten bolt.**

Install ball joint onto top of steering arm on supplied Steering System Lower using supplied washer and nylock nut. **NOTE: Washer and nut are to be installed in machined slot.**

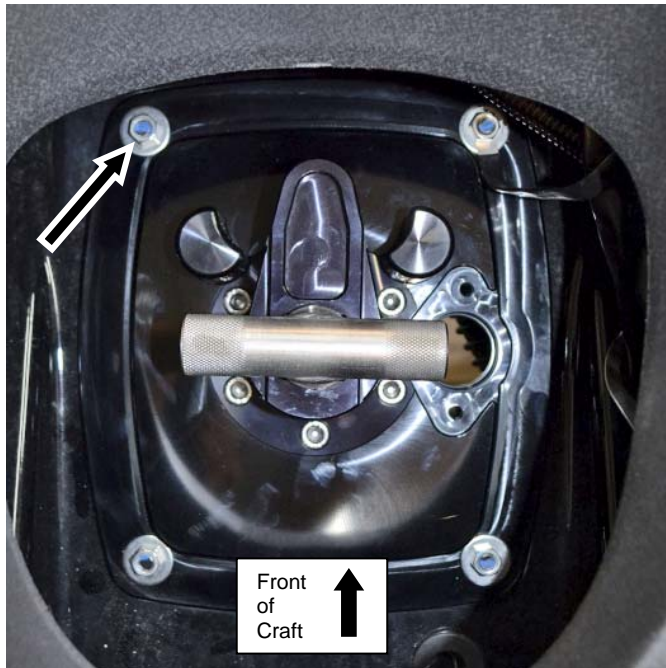


**TIP:** For faster steering move ball joint in towards steering shaft. For slower steering move ball joint out towards end of steering arm. Center for stock steering setting.

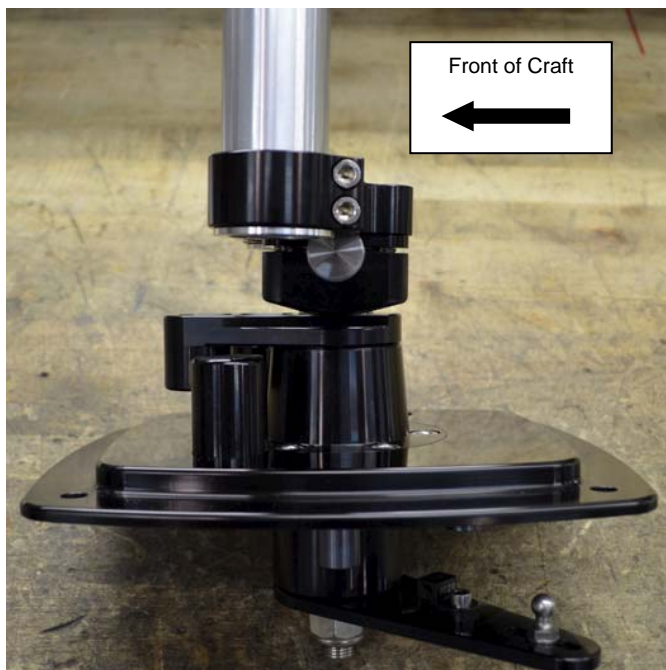
Install Off Throttle Steering sensor onto Steering System Lower using stock screws (2). **NOTE: Apply red Loctite to threads. Do not over tighten screws.**



Mount Steering System Lower onto hull and secure using stock hardware (4 nuts & washers). **NOTE: Apply red Loctite to threads. Do not over tighten nuts.**



Install RIVA Pro-Series Steering onto Steering System Lower. **NOTE: Thoroughly clean clamping surfaces and steering shaft 'T' with a non-residual cleaner. Apply red Loctite to clamp bolts. Torque bolts evenly to 14 ft•lb / 20 N•m.**



Pass electrical connectors for steering controls through opening in Steering System Lower. Pass throttle cable and temperature sensor up through opening in Steering System Lower.

Replace grommet and secure using stock hardware (2 bolts). **NOTE: Apply blue Loctite to threads. Do not over tighten bolts.**

Replace handlebars. **NOTE: Thoroughly clean bars, billet spacers and handlebar clamping surfaces with a non-residual cleaner. Apply red Loctite to handlebar clamp bolts. Torque bolts evenly to 14 ft•lb / 20 N•m.**

Replace throttle cable or stock throttle assembly if equipped.

Replace start/stop switch assembly.

Replace ECU bracket.

Replace front storage compartment inspection cover.

Check bilge for tools, rags, etc. Run craft on a flush kit to check for proper operation.

#### ADJUSTMENT NOTES:

Steering system tilt is adjustable at handlebars (upper) and steering shaft (lower). When final position is achieved remove all bolts loosened one at a time, apply Loctite and re-torque. Periodically check all bolts to ensure they are secure. If any are loose remove, reapply Loctite and re-torque.

***Remember, the water belongs to everyone.  
Please ride responsibly and respect the environment!***

### **Technical Support**

For answers to questions regarding installation or trouble shooting RIVA Performance Products contact:  
RIVA Technical Support directly at (954) 247-0705 or by e-mail at [tech\\_support@rivamotorsports.com](mailto:tech_support@rivamotorsports.com).

### **Limited Warranty**

RIVA Pro-Series Steering System Lower Kits carry a 6-month limited warranty to the original purchaser. They are warranted to be free of defects in materials and workmanship under normal use and service. Customer modified components will be void of warranty. This warranty is limited to defects in the primary components only. Finish and/or wear marks in or on primary components are not covered under this warranty.

RIVA Racing's liability is expressly limited to the repair or replacement of the components contained within or associated with this kit. RIVA Racing agrees to repair or at RIVA's option, replace any defective unit without charge, if product is returned to RIVA Racing freight prepaid within the warranty period. Any equipment returned which, in RIVA's opinion, has been subjected to misuse, abuse, overheating or accident shall not be covered by this warranty.

RIVA Racing shall have no liability for special, incidental or consequential damages or injury to persons or property from any cause arising from the sale, installation or use of this product.

No other warranty, express or implied, including, but not limited to the implied warranties of merchantability and fitness for a particular purpose, applies. Various states do not allow for the limitation of incidental or consequential damages and therefore the above exclusion or limitation may not apply to you.

Warranty does not include the expenses related to freight or transportation of parts or compensation for any inconvenience or loss of use while being repaired. A copy of the original invoice and a Return Authorization Number (RA#) must accompany all warranty claims.

Warranted replacement parts will be returned freight collect.