



RIVA RACING
PERFORMANCE PRODUCTS & ACCESSORIES

Kawasaki Pro-Series Steering System

RK20130



Applications:

Kawasaki 2022+ Ultra 310 Models

Approximate Installation Time:

3.5 Hrs.

Recommended Specialty Tools:

None

Required Materials:

Blue Loctite

Red Loctite

Your kit was inspected and verified before being carefully packaged by our staff. Please check package contents before beginning assembly. If you have a question about missing or damaged items please contact RIVA Technical Support directly at (954) 247-0705 or by e-mail at tech_support@rivaracing.com.

GET THE LATEST UPDATES!

Prior to installation, go to the RIVA Racing online Instruction Library to download the latest version of these instructions:

<https://rivaracing.com/instructions>

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. Read through instructions entirely before performing installation. Please follow these step-by-step instructions and illustrations carefully.

***** ALLOW ENGINE TO COOL COMPLETELY BEFORE PERFORMING INSTALLATION *****

***** NO SMOKING *** NO SMOKING *** NO SMOKING *****

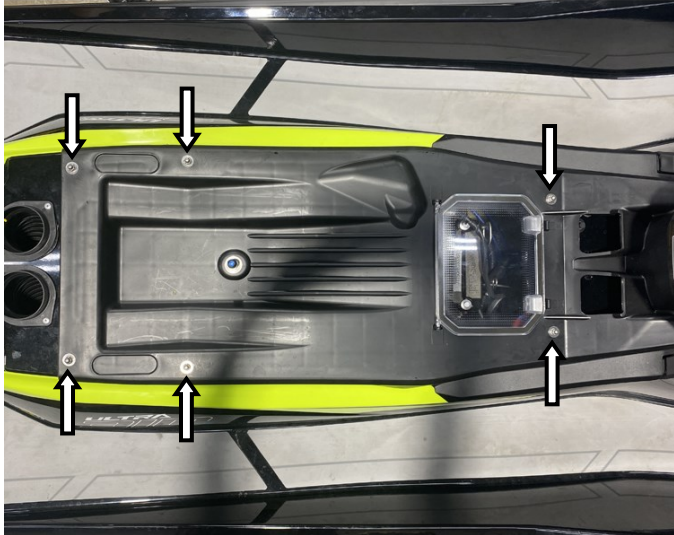
Caution: Whenever using electric or battery operated tools inside the hull be sure it is well ventilated and no fumes are present. Failure to do so could result in a fire, or explosion and serious personal injury or death.

This kit is not intended for use on pollution controlled vehicles. Installation on pollution controlled vehicles may constitute a violation of state or local statutes.

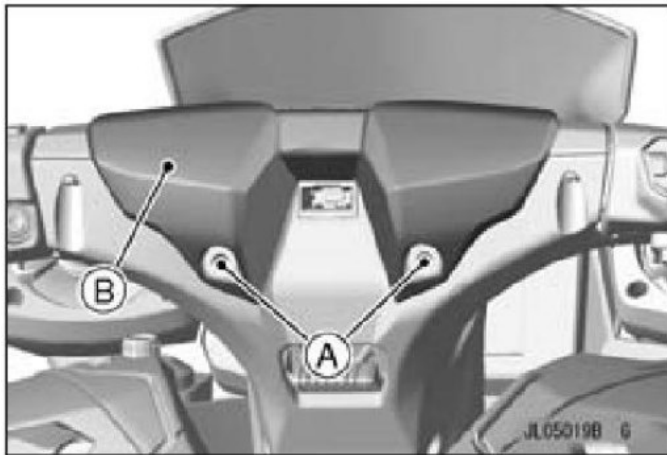
- INSTALLATION INSTRUCTIONS -

Remove seats.

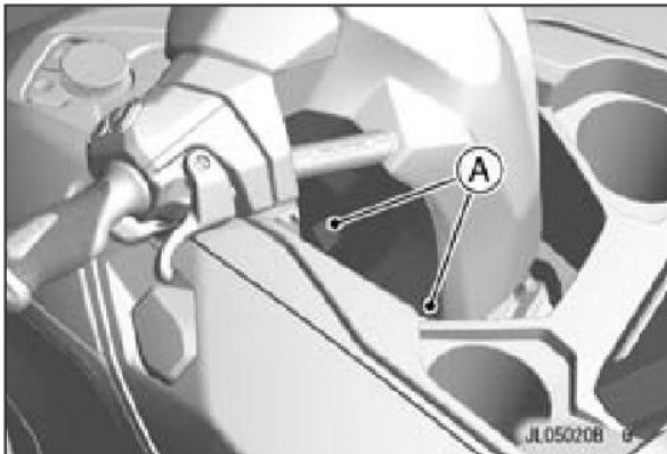
Remove engine compartment cover (6 nuts & washers).



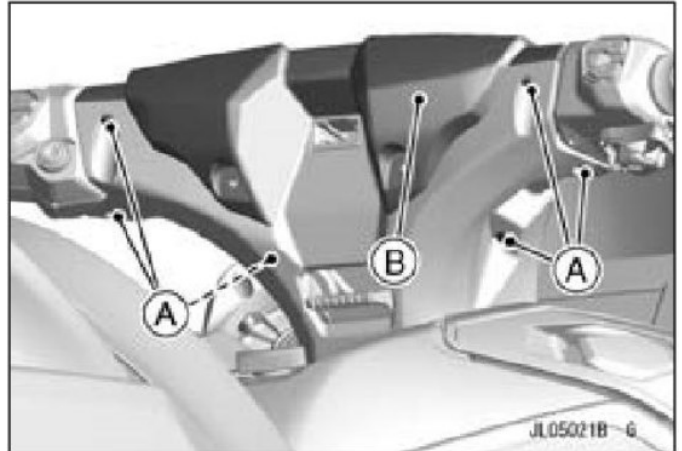
At handlebar pad, remove bolts (A) at back.



Remove rivets (A) on both sides of steering cover.

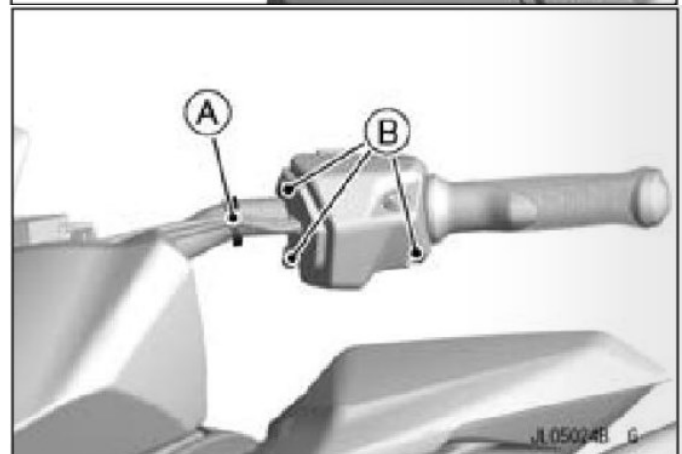
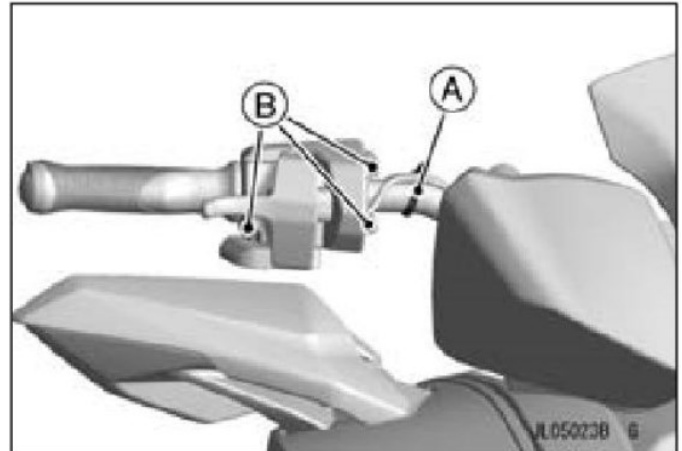


Remove bolts (A) from back, underside of steering cover.



Remove and discard upper steering cover with pad (B)

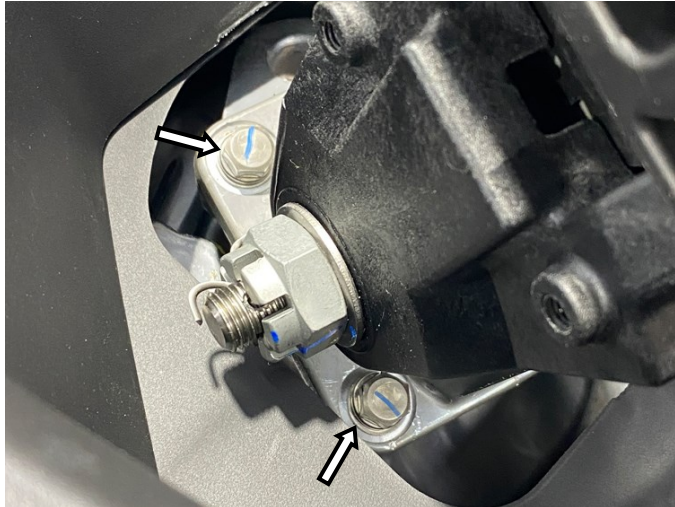
Remove screws (B) for control housings and zip ties (A).



Separate control housing and set aside.

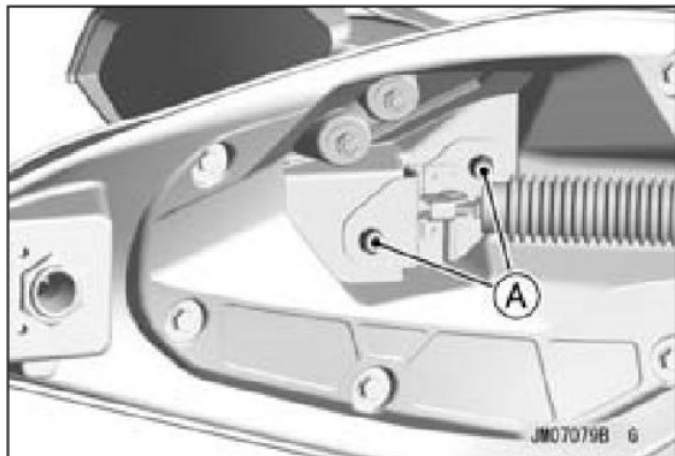
- INSTALLATION INSTRUCTIONS -

Remove steering head (4 bolts).

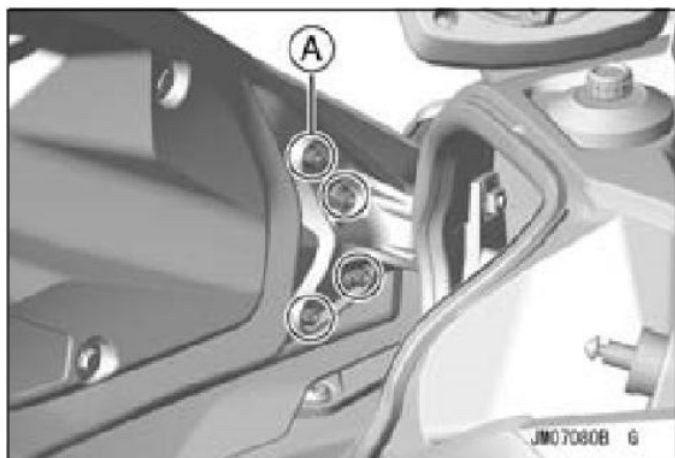


Remove side storage compartment doors.

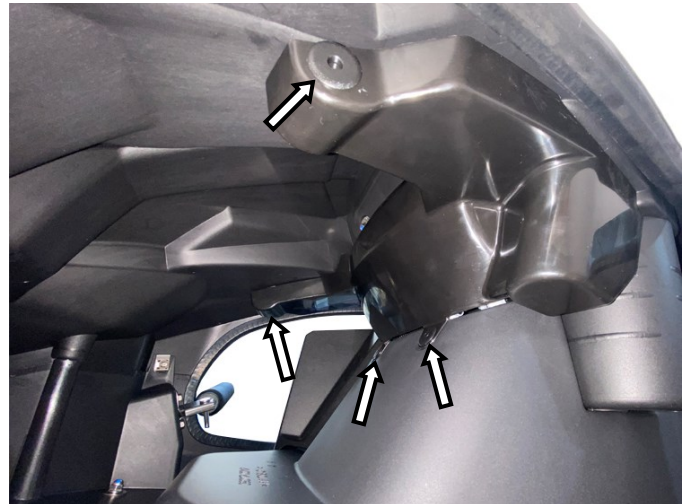
Two bolts (A) securing strut to door behind mirrors.



Four bolts (A) securing strut at front of door.



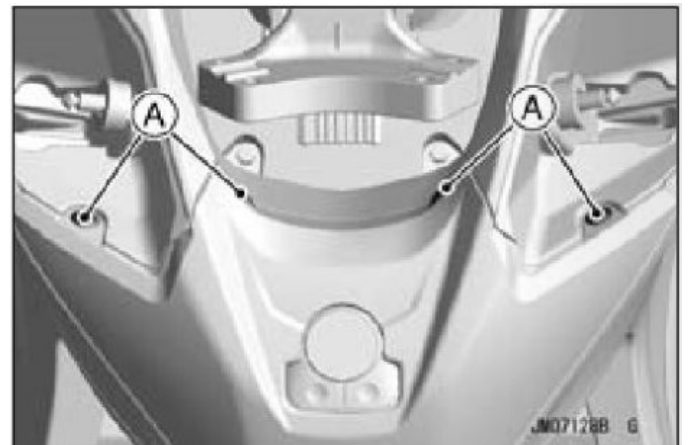
Inside side storage compartments, behind meter unit, remove black plastic cover (4 rivets).



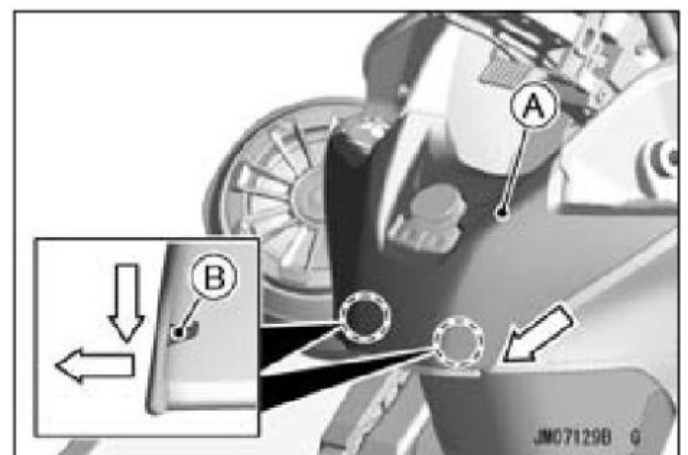
Disconnect wiring harness from back of meter unit (1 plug).

REMOVE STORAGE CASE ASSEMBLY

At rear of storage case upper where console controls are located, remove 4 rivets (A) securing console cover in place.

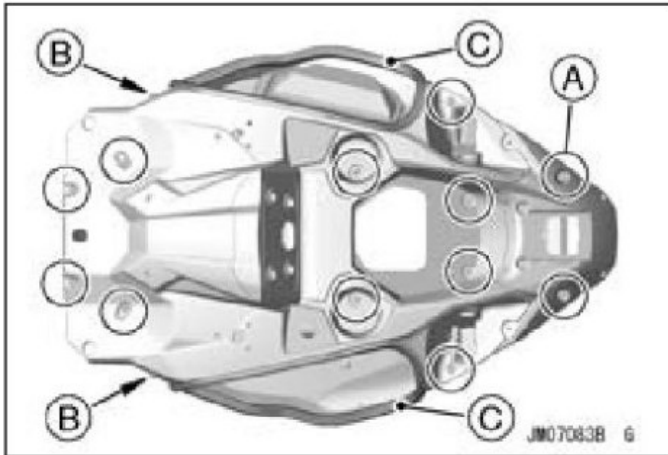


Remove console control cover (A) by carefully lifting front edge over control knob. Then, while pushing down at center to clear hooks (B), pull bottom edge out.



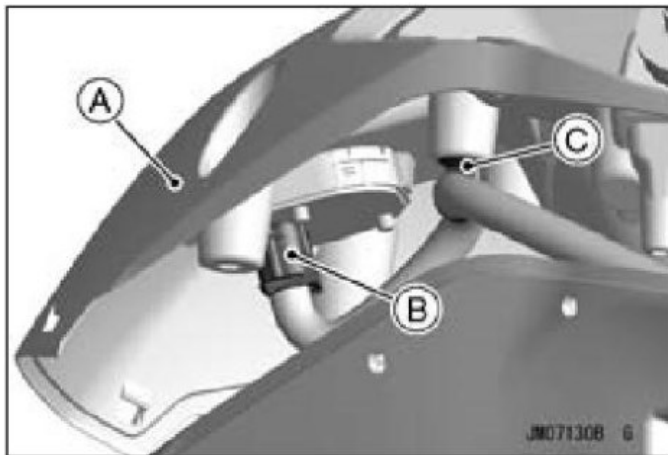
- INSTALLATION INSTRUCTIONS -

Remove 10 bolts with collars (A) from top of front storage case upper.



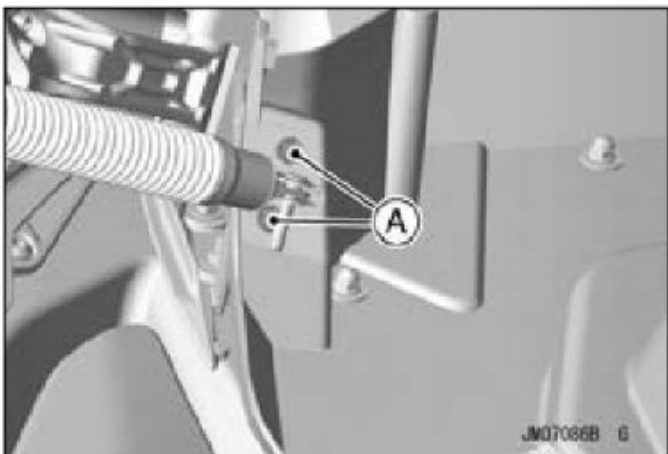
Remove 2 bolts (B) and side compartment seals (C).

Pull up at rear of storage case upper (A) to access and disconnect meter controller connection (B) and to **remove zip tie grommet** securing wiring harness (C). **NOTE: Do not cut zip tie.**

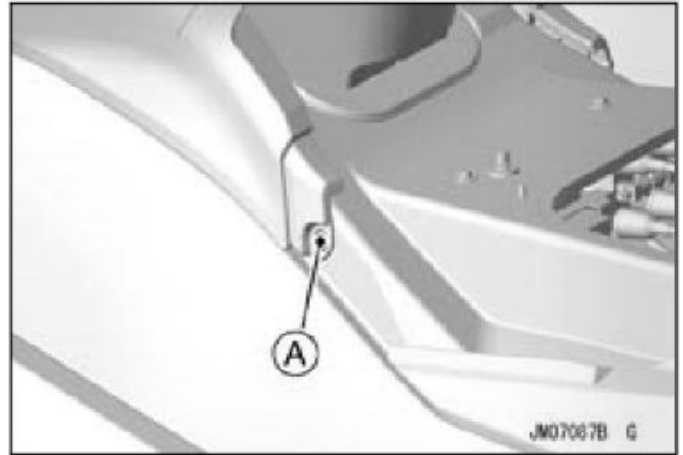


REMOVE STORAGE CASE BASE

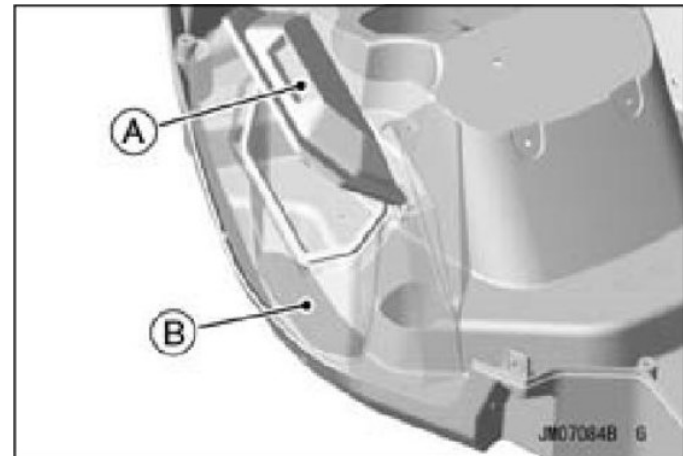
Remove bolts (A) securing piston. (2 each side).



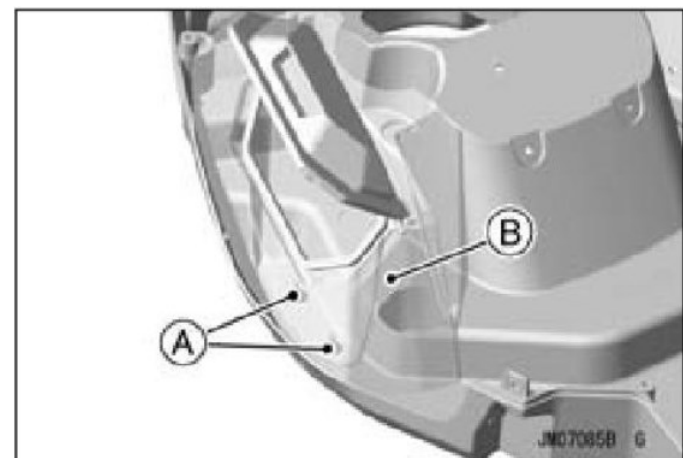
Remove rivets (A) securing knee pads to hull. (1 each side).



At right side of storage case base, remove dry storage case lid (A) and inner pad (B).

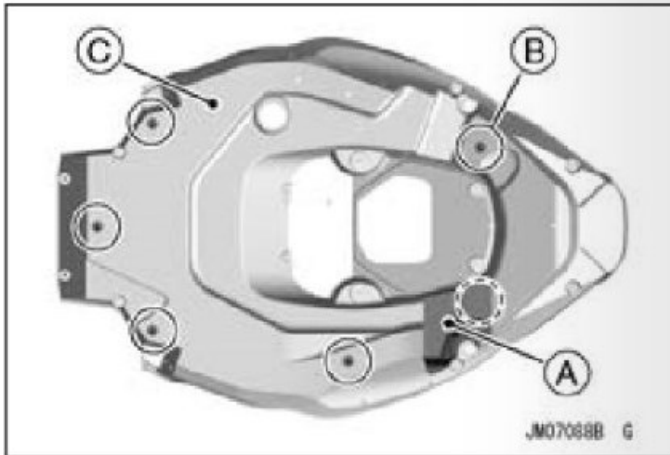


Remove nuts (A) inside dry storage case (B).



- INSTALLATION INSTRUCTIONS -

Remove nuts & washers (B) securing storage case base (C).

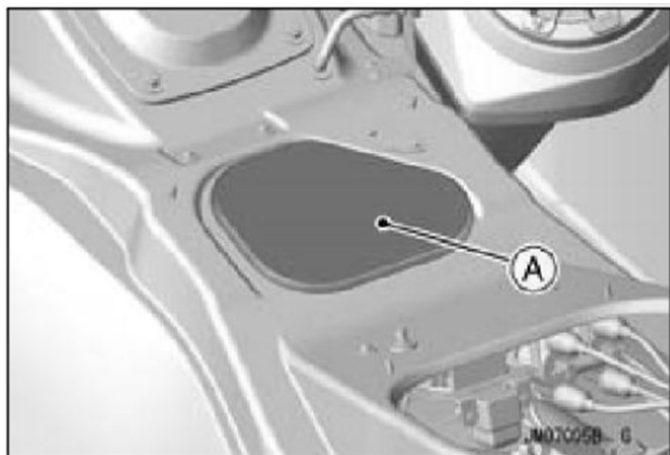


Lift storage case base and set aside.

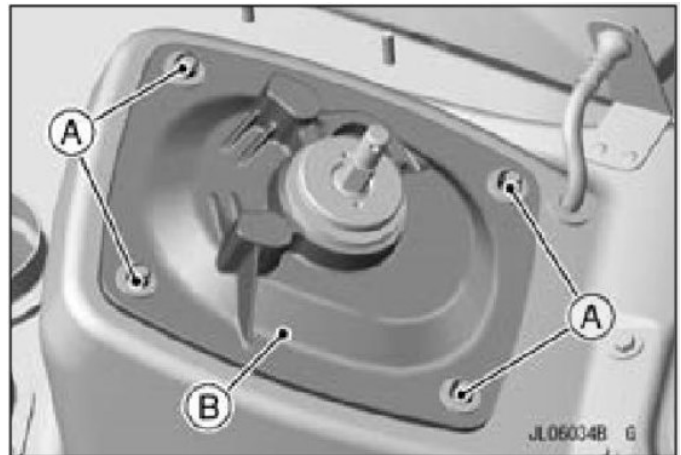
At steering base plate, remove bolts (2) securing wiring harness to grommet.



Remove center access cover (A) just below steering base plate.



Remove 4 nuts & washers (A) securing steering assembly to hull (B) and retain.

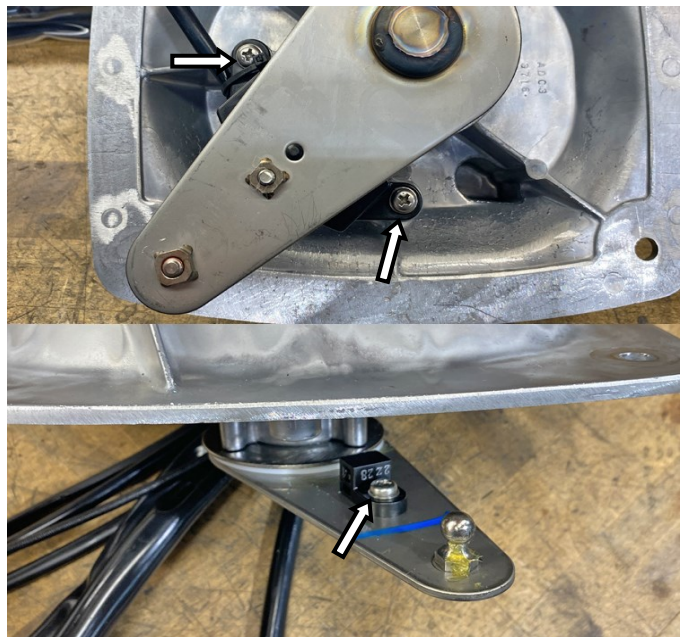


Raise steering assembly base plate to access and disconnect steering cable from steering shaft arm.



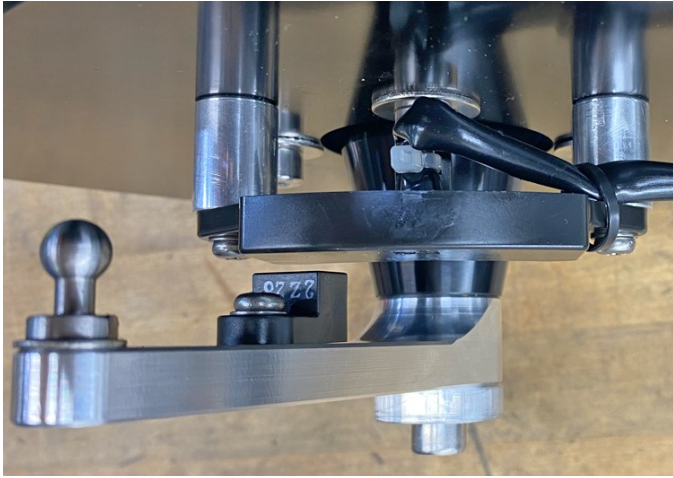
Raise steering base plate to access and disconnect electrical connectors (9) for wiring harness.

Remove IC sensor & magnet (3 screws total).



- INSTALLATION INSTRUCTIONS -

Install IC sensor and magnet onto supplied RIVA Steering System base plate and arm. **NOTE: Apply blue Loctite to screws. Do not overtighten.**



Carefully remove wiring harness with rubber grommet from OEM steering base plate. Starting with smallest connector (green) first, remove each wire set individually, finishing with largest connector (gray) last. Install in reverse order into supplied RIVA steering and secure rubber grommet bracket with hardware previously removed. **NOTE: Apply blue Loctite to bolts. Do not overtighten.**

Carefully connect wiring harness connectors (9) ensuring each locks together securely.

Inspect gasket on hull where steering mounts. If damaged replace with part # 11061-3739, or apply a thin layer of silicone sealant.

Apply waterproof grease to ball joint on end of steering arm. Place steering over opening in hull and attach steering cable to steering arm. Mount steering plate onto hull and secure using supplied serrated nuts (4). **NOTE: Apply blue Loctite to studs. Torque nuts to 15.4 ft•lb (19.6 N•m).**

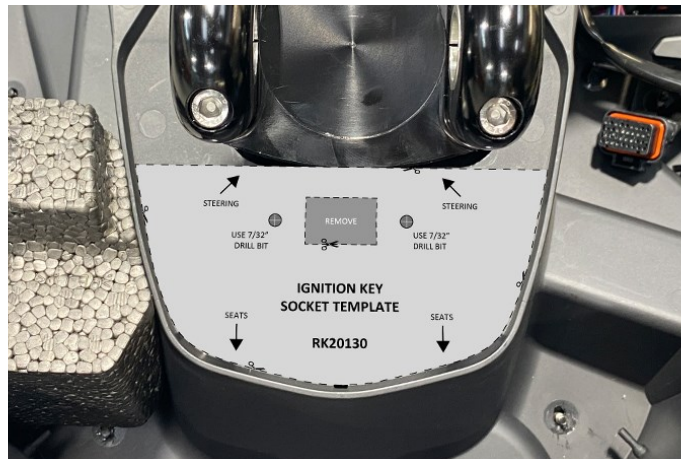


Install supplied steering head onto steering shaft and secure with supplied M8 bolts (4). *R logo faces forward!* **NOTE: Apply red Loctite to bolts. Torque to 15ft•lb (20 N•m).**



Ignition Key Socket Relocation

Prior to replacing storage case base, modify using supplied template on last page to relocate ignition key socket.



- INSTALLATION INSTRUCTIONS -

Secure ignition key socket using supplied hardware. Place supplied nylon spacers (2) between ignition key socket and underside of storage base. **NOTE: Apply blue Loctite to threads. Do not overtighten.**

Replace center access cover.

Replace storage case base and secure using OEM hardware & rivets. **NOTE: Apply blue Loctite to hardware threads. Torque to 78 in•lb (8.8 N•m).**

Replace dry storage box on right side and secure using OEM hardware. **NOTE: Apply blue Loctite to threads. Torque to 78 in•lb (8.8 N•m).**

Replace storage case upper and secure using OEM hardware. **NOTE: Apply blue Loctite to threads. Torque to 78 in•lb (8.8 N•m).**

Carefully replace console control cover and secure using OEM rivets (4).

Replace seals for side storage compartment doors.

Replace cover inside side storage and behind meter unit. Secure with OEM rivets (4). **NOTE: Apply blue Loctite to threads. Torque to 78 in•lb (8.8 N•m).**

Replace side storage compartment door struts and secure to storage case upper using OEM hardware (2 bolts each side). **NOTE: Apply blue Loctite to threads. Torque to 78 in•lb (8.8 N•m).**

Replace side storage compartment doors. 4 bolts & washers at hinges. 2 bolts at struts behind mirrors. **NOTE: Apply blue Loctite to threads. Torque to 78 in•lb (8.8 N•m).**

Installation of your RIVA Billet Steering System is now complete!

Install aftermarket handlebars with cross-bar pad and secure using RIVA Billet Handlebar Clamp and supplied M8x25 SCHS. **NOTE: If using standard 7/8" diameter handlebars, use the supplied spacers. Split in half by finishing cuts with a thin hacksaw or bandsaw blade. Apply red Loctite to bolts. Torque in a criss-cross pattern to 15 ft•lb (20 N•m).**

Install OEM controls and secure with OEM hardware. **NOTE: You may file down the raised pins inside controls or modify handlebars to accept them. Apply blue Loctite to threads. Torque to 78 in•lb (8.8 N•m).**

Install aftermarket grips. **TIP:** See next column for handlebar and grip recommendations.

Check bilge for rags, tools etc.

Run craft on a flush hose to check for proper operation.

Replace engine compartment cover. **NOTE: Apply blue Loctite to threads. Torque to 78 in•lb (8.8 N•m).**

RIVA Racing Handlebar Options:

RIVA PRO-BAR 30" Runabout Bars

Item #: [RY205BK-BAR-2](#)

RIVA PRO-BAR 32" Runabout Bars

Item #: [RY204BK-BAR-2](#)

RIVA Racing Grip Options:

ODI Rogue Lock-On Grips, 130mm, No Flange, Black

Item #: [L31RGB-S](#)

ODI Ruffian Lock-On Grips, 130mm, No Flange, Black

Item #: [L32RFB-S](#)

RIVA ODI Grip End Cap & Clamp Kits

Item #: [RY206-COLOR](#)

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@rivaracing.com.

Limited Warranty

RIVA Pro-Series Steering Systems carry a 1-year 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.



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