

The following instructions detail the complete installation process for 2022 & newer Yamaha FX WaveRunners not equipped with Factory Audio. Please disregard the installation instructions provided in the packaging for the speakers (RY11170-AS).



R400 Audio System

RY11170-AS



R400 Audio Upgrade Installation Kit

F5G-U81AC-V0-0B

Please proceed to page 3 to begin the installation process.

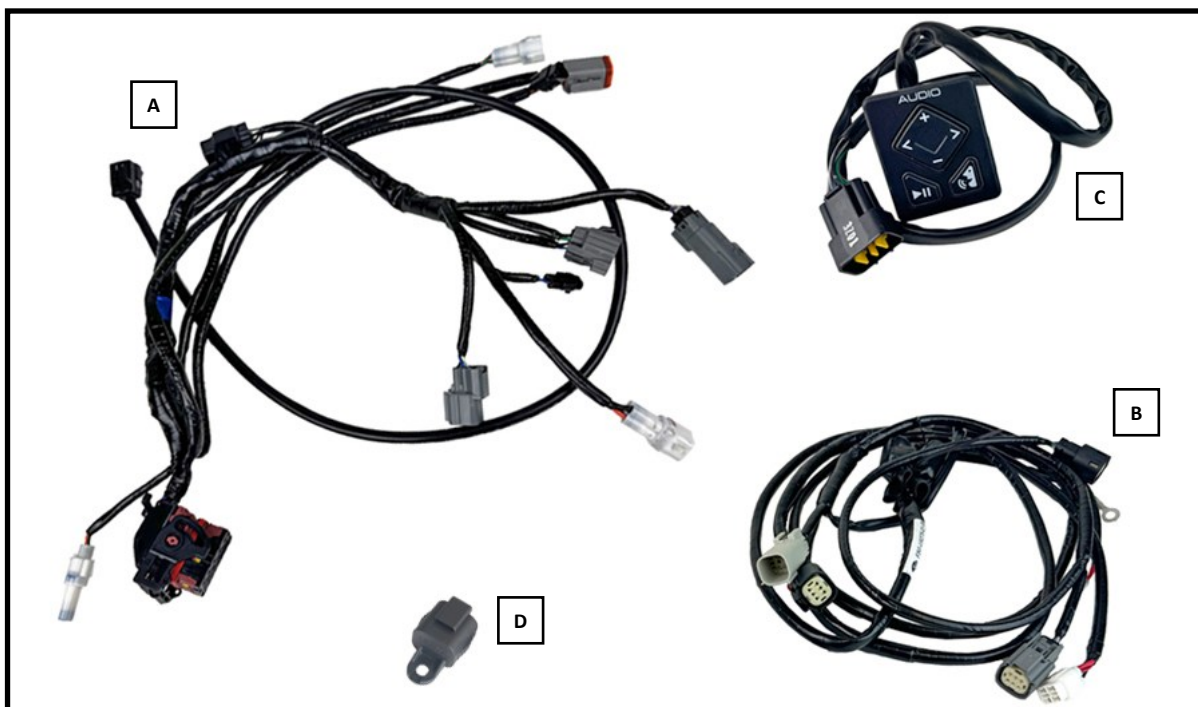
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wet sounds®
High Performance Audio

R400 Audio Upgrade Installation Kit

F5G-U81AC-V0-0B



Applications:

2022 & Newer Yamaha FX WaveRunners without Factory Audio

Approximate Installation Time:

4 hours Combined (F5G-U81AC-V0-00 & RY11170-AS)

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>

Recommended Specialty Tools:

Step Drill Bit, Double-Fluted, 1/4-Inch to 3/4-Inch
Step Drill Bit, Double-Fluted, 7/8-Inch to 1-3/8-Inch

Part #

N/A
N/A

Required Materials:

Blue Loctite
Red Loctite

Part #

N/A
N/A



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COMPONENT LIST

ITEM	DESCRIPTION	RIVA PART #	QTY	NOTES
A	Dash Display Wiring Harness	F5G-U0891-00-00	1	
B	Audio Power Harness	F5G-U8275-01-00	1	
C	Audio Control Pad	F5G-U81AJ-01-00	1	
D	Dust Cap	N/A	1	

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.

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 *****

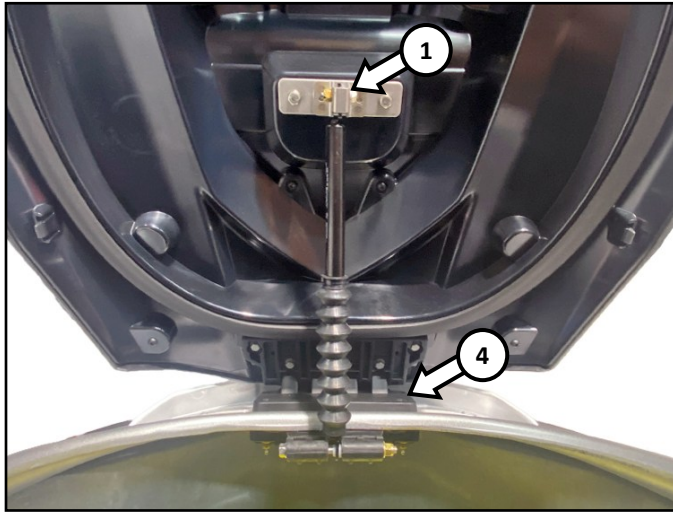
***** VENTILATE INSIDE OF HULL COMPLETELY BEFORE PERFORMING INSTALLATION *****

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.

- INSTALLATION INSTRUCTIONS -

Remove seats.

Remove front storage compartment hood (5 bolts). One bolt at top of hood support and four bolts securing hood bracket to hull.

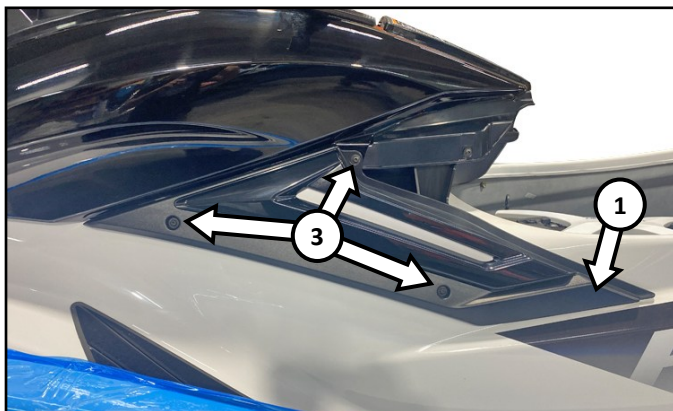


Inside front storage compartment, remove screws/rivets (4) securing bulkhead to hull.

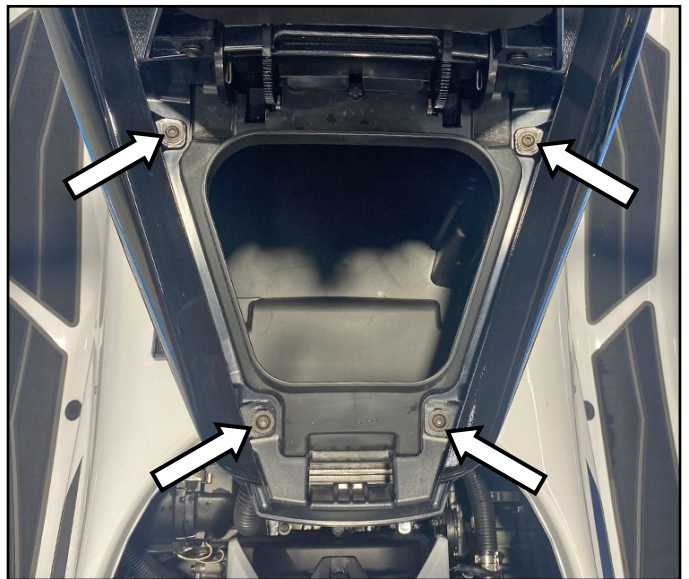


Separate bulkhead along center vertically. Remove both sections of bulkhead and set aside.

At sides of craft, below glove box, remove small side panels (1 each side - 3 bolts outside / 1 nut inside).

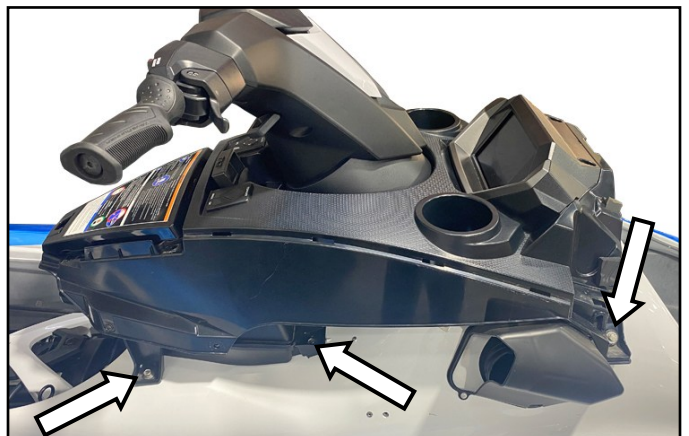


Remove bolts (4 per side - 2 at front / 2 at glove box) securing large side cowlings to center cover.



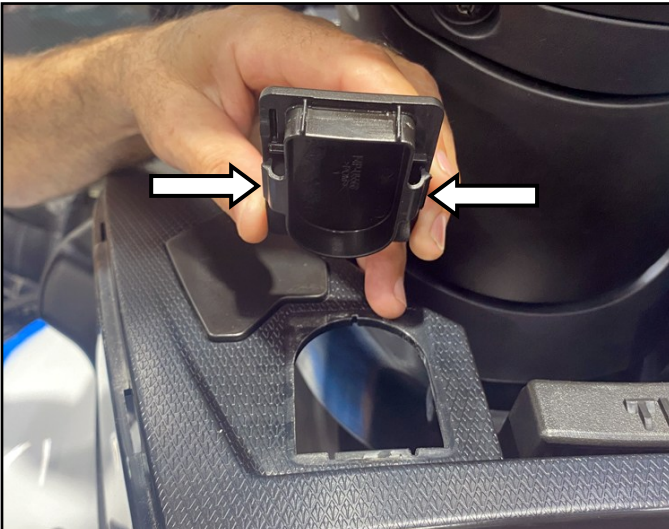
Remove side cowlings by sliding forward and pulling away from center cover.

Remove bolts (3 each side) securing center cover to hull.



- INSTALLATION INSTRUCTIONS -

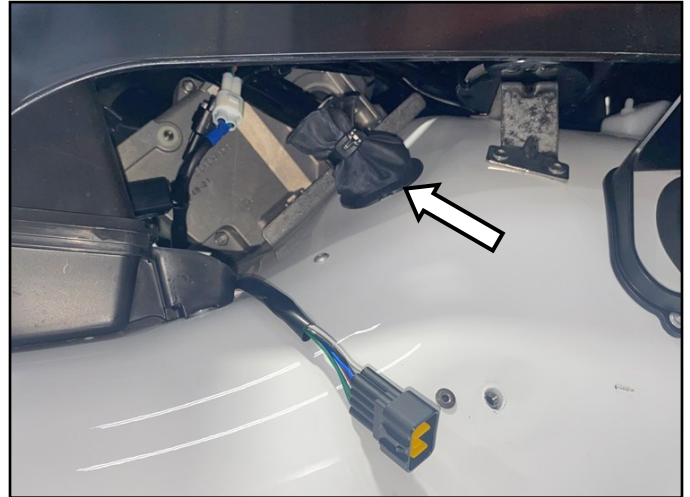
At left of steering tilt lever, remove rectangular block-off plate from center cover. **NOTE: Do not pry from top. Access locking tabs from underside of center cover.**



Install supplied audio control pad. Feed control pad wire behind steering, towards right side of craft. **NOTE: Ensure control pad locks into place securely.**



Locate rubber grommet under center cover (right side). Remove reusable zip tie and roll back rubber sleeve to expose packing foam around wiring.



Carefully unwrap packing foam and set aside.

Carefully guide audio control pad wire through rubber grommet into hull. **NOTE: Leave some slack in wire under steering.**

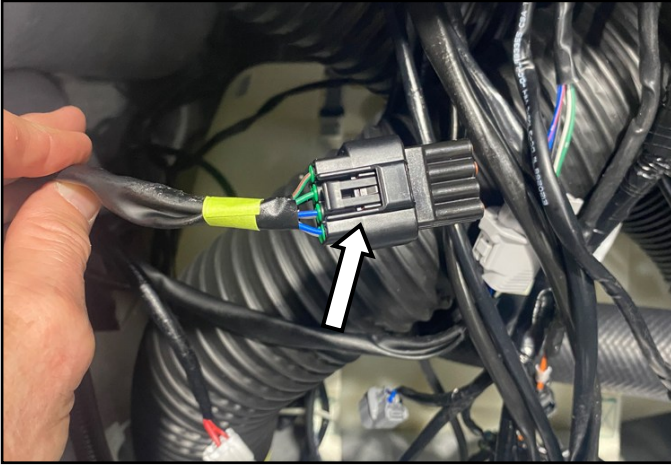
Wrap packing foam around wiring. Roll rubber sleeve over packing and secure reusable zip tie around rubber sleeve at packing foam to seal.

Inside hull, loosen large zip ties (3) securing wiring in place. **TIP: Use a small, flat screwdriver to pry locking tab open to loosen zip ties.**



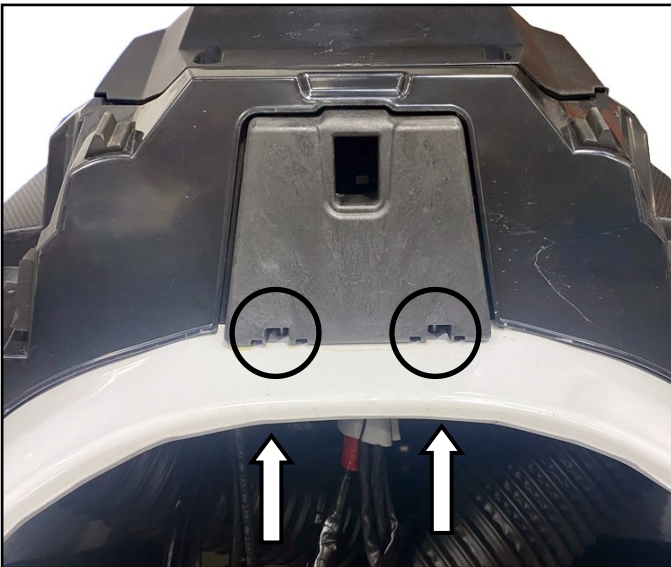
- INSTALLATION INSTRUCTIONS -

Pull wiring free from zip ties. Locate connector with 8 wires and fitted with a dust cap. **TIP:** Trace wire to audio module mounted to hull at right of fuel tank to confirm.

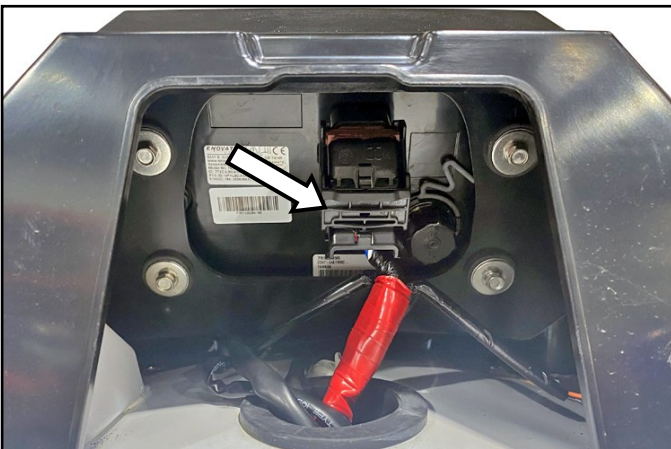


Remove dust cap and discard. Connect newly installed audio control pad wire to audio module wire.

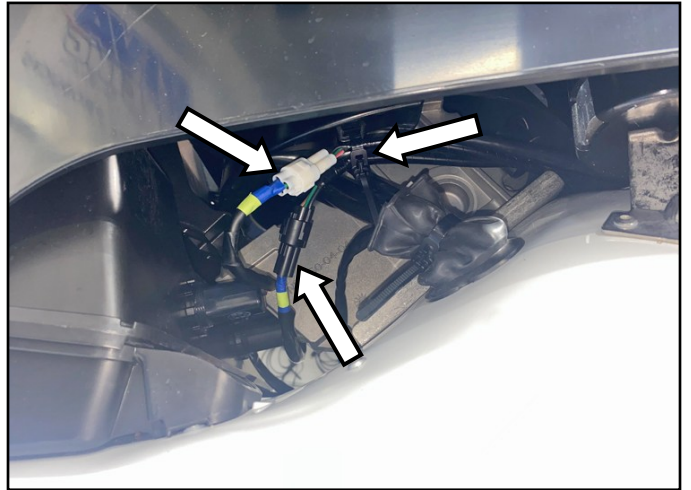
At top of opening for front storage compartment remove hood lock (2 bolts) and set aside.



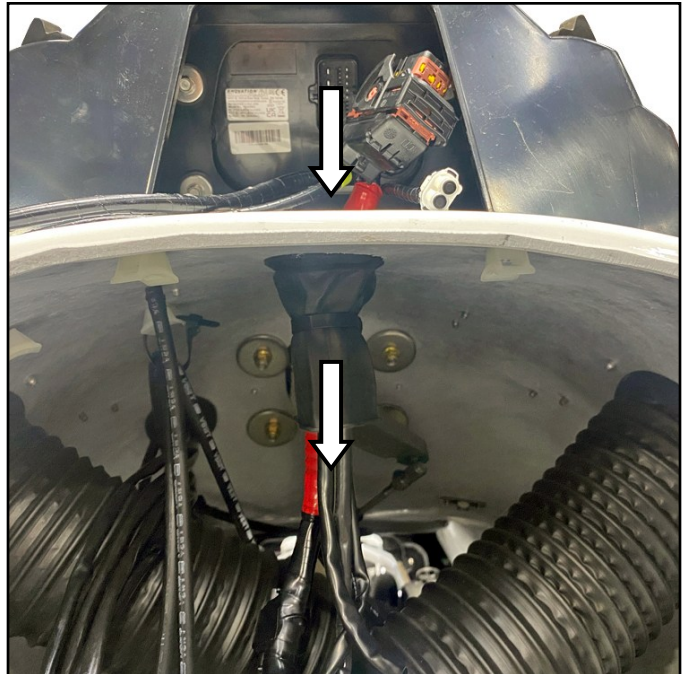
Disconnect connector from back of dash display.



Trace small pigtail wires (2) towards glove box and disconnect electrical connectors (2 - 1 white / 1 black) at right, under center cover. Unclip reusable zip ties and pull wires towards dash display connector.



At front, below dash display, pull rubber grommet down, out of opening in hull.



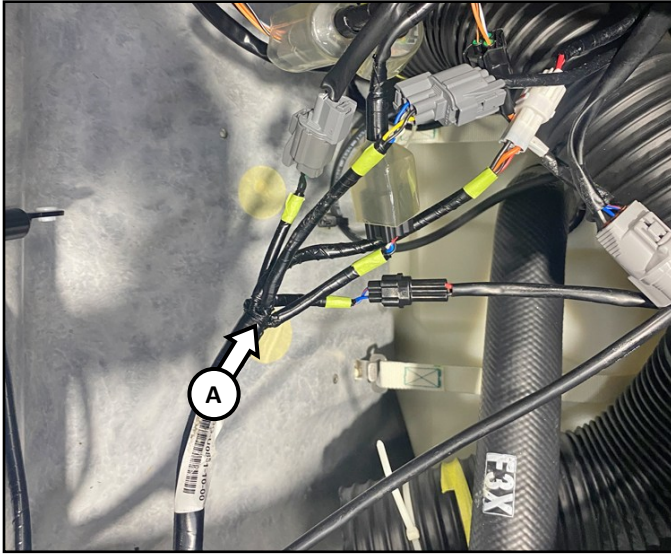
Feed smaller pigtail wires (3) down through opening into front storage compartment and then feed main connector down into front storage compartment.

Remove reusable zip tie securing rubber grommet to wiring and set aside

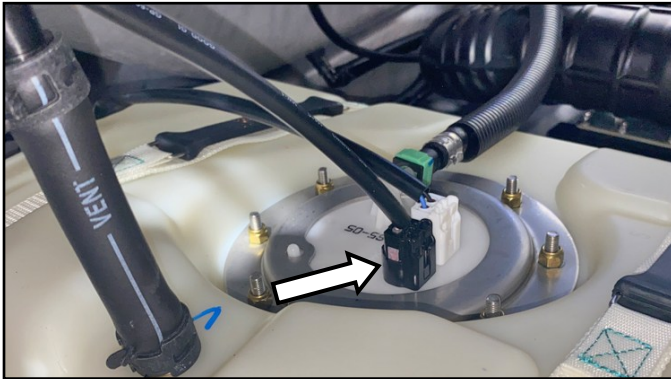
Carefully unwrap packing foam from wiring and set aside.

- INSTALLATION INSTRUCTIONS -

Trace dash display harness 'A' from main connector to smaller connectors (5) and disconnect.

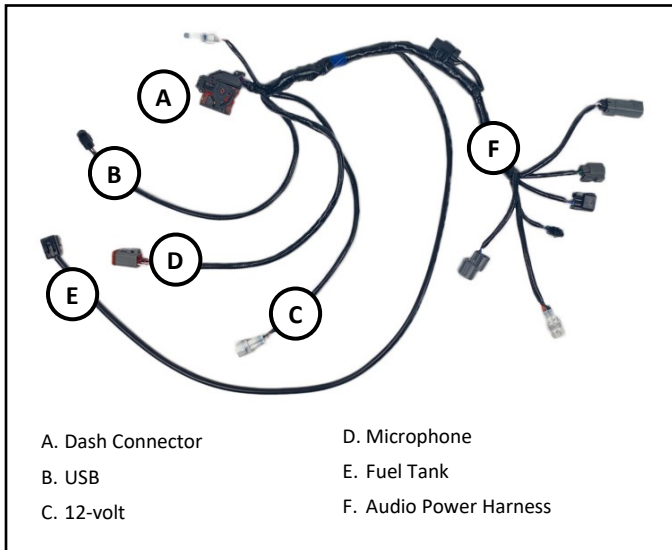


Trace remaining wire to top of fuel tank and disconnect connector (black).



Remove and discard dash display wiring harness.

New Dash Display Wiring Harness Installation:



Install supplied dust cap onto connector 'D' if factory microphone is not utilized.

Feed dash connector and smaller pigtail wires (4) up through opening in hull towards dash display.

Connect main connector 'A' to dash display. **NOTE: Do not force. Use locking cam to secure connector.**

Route connectors 'B' & 'C' along right side of steering under center cover and secure in place with reuseable zip ties. **NOTE: If installing Factory Microphone route connector 'D' along left side of steering.**

Connect USB & 12 volt accessories. **NOTE: Ensure connectors lock together securely.**

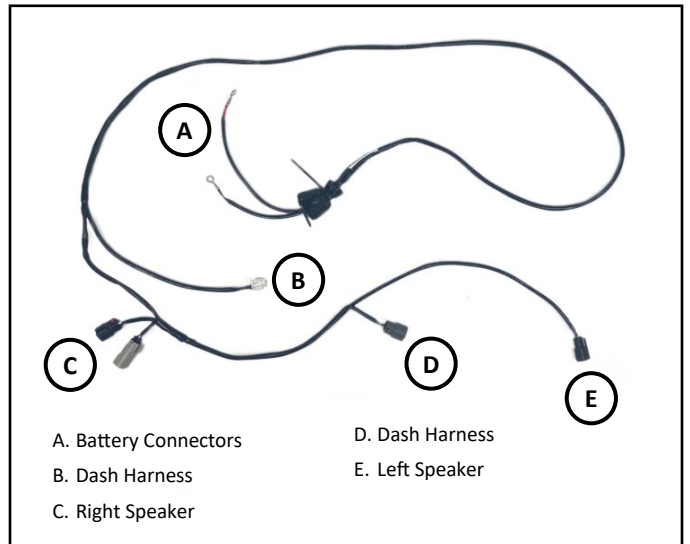
Do not connect remaining dash display wiring harness connectors at this time.

Secure center cover to hull with bolts (6) previously removed. **NOTE: Apply red Loctite to bolts. Torque bolts to 3.7 ft•lb (5 N•m).**

At top of opening for front storage compartment replace rubber grommet in hull. **NOTE: Wrap packing foam around wiring where there is blue electrical tape. Secure grommet at foam with reuseable zip tie.**

Replace hood lock (2 bolts) for front storage compartment at top of compartment opening. **NOTE: Apply blue Loctite to bolts. Torque bolts to 3.7 ft•lb (5 N•m).**

New Audio Power Wiring Harness Installation:

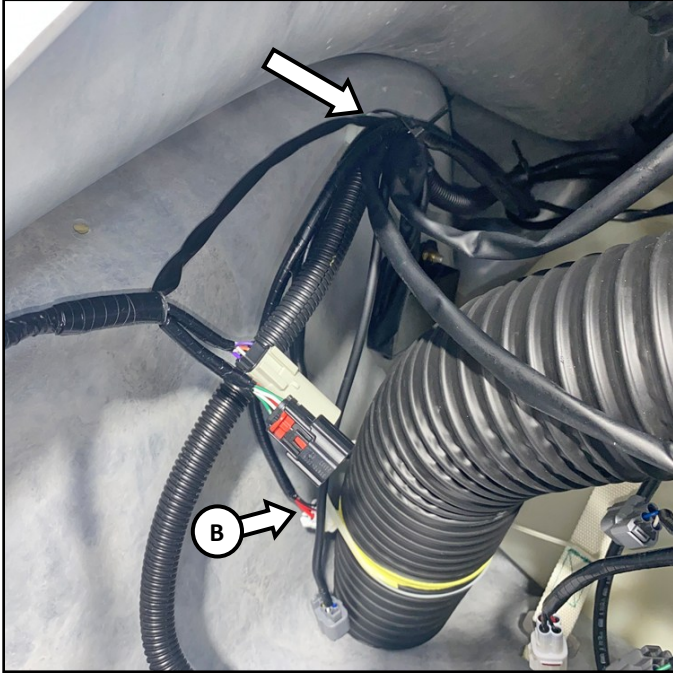


NOTE: There is an existing power harness in your craft that does not support audio. You may remove it or leave it. The supplied audio power harness is required to power and control your new RIVA/Wet Sounds R400 Speakers.

Feed end of supplied audio power harness with electrical connectors (A - red & black eye connectors) from front of craft to rear along right side. Follow drain lines for right footwell until you reach battery. **NOTE: Do not connect to battery at this time.**

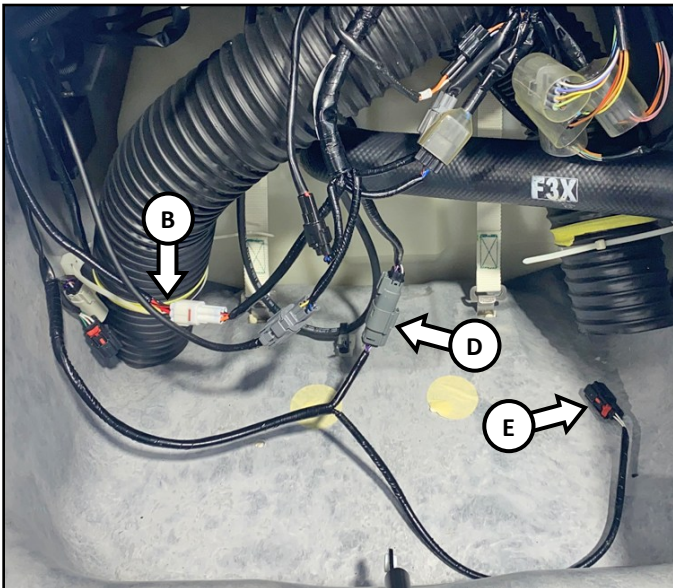
- INSTALLATION INSTRUCTIONS -

At front, inside hull, place first split, or fork, in audio power harness for connector 'B' at reusable zip tie mount and secure.



Connecting New Wiring Harnesses:

Connect connectors 'B' & 'D' on supplied audio power harness to their matching connectors on new dash display harness. **NOTE: Ensure connectors lock together securely.**

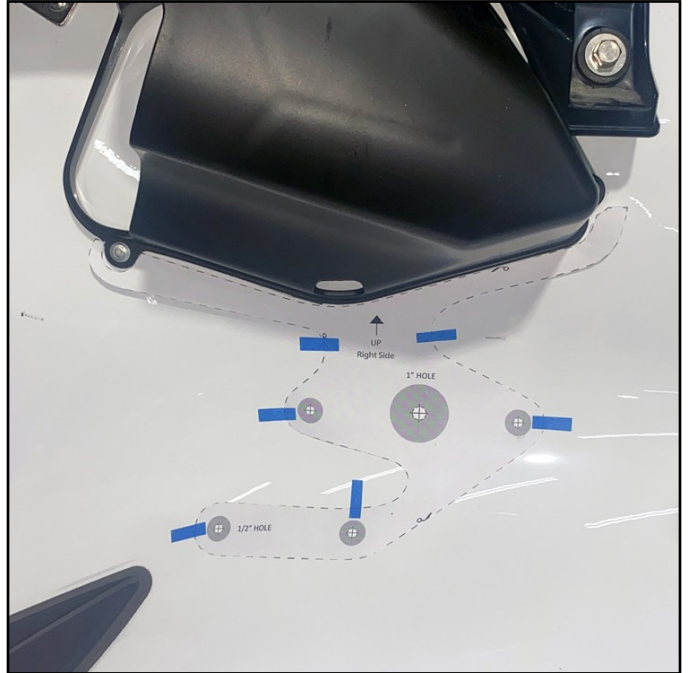


Connect remaining open connectors on dash display harness (4) to their matching open connectors on the engine/ecu harness. **NOTE: Ensure connectors lock together securely.**

Feed single connector for left speaker (E) through large zip ties towards left side of hull.

RIVA / Wet Sounds Speaker Installation:

Cut out templates on pages 13 & 15. Affix to hull just below air intake ducts starting at top and working down. **NOTE: Ensure templates do not slip under edge of air intake covers. Verify proper placement before proceeding.**



Using a center punch, mark hull at middle of each set of crosshairs (5 per side).



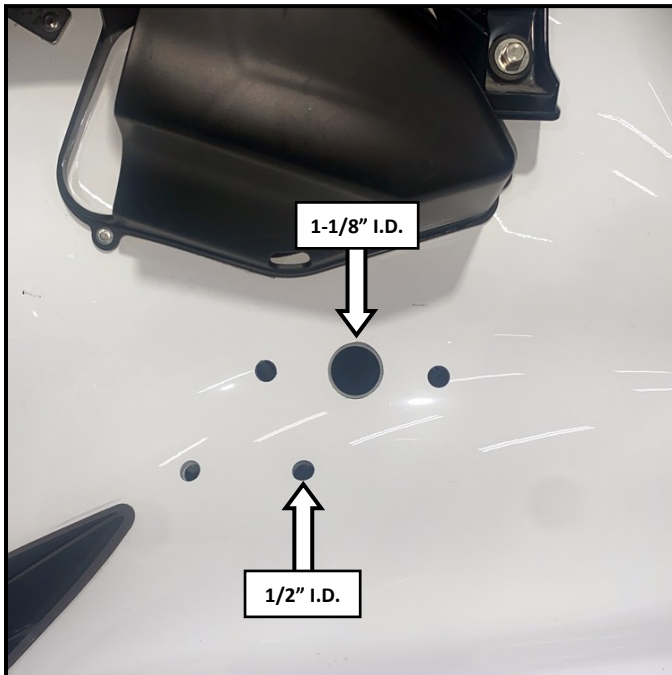
Remove templates and verify markings.

- INSTALLATION INSTRUCTIONS -

Using a sharp, undamaged dual-fluted step drill bit (1/4"~3/4"), drill all holes to 1/2" I.D. **NOTE: Prior to drilling right side, remove wire bundle from zip tie mount inside hull!!!**



Using a sharp, undamaged dual-fluted step drill bit (7/8"~1-3/8"), drill center, top hole only to 1-1/8" I.D.



Thoroughly clean inside and outside of hull with a non-residual cleaner. **NOTE: Ensure outside of hull is free of dust.**

Replace large side cowlings. **NOTE: Apply blue Loctite to bolts without nuts. Torque all to 4.0 ft•lb (5.4 N•m).**

Replace small side panels. **NOTE: Apply blue Loctite to bolts without nuts. Torque all to 4.0 ft•lb (5.4 N•m).**

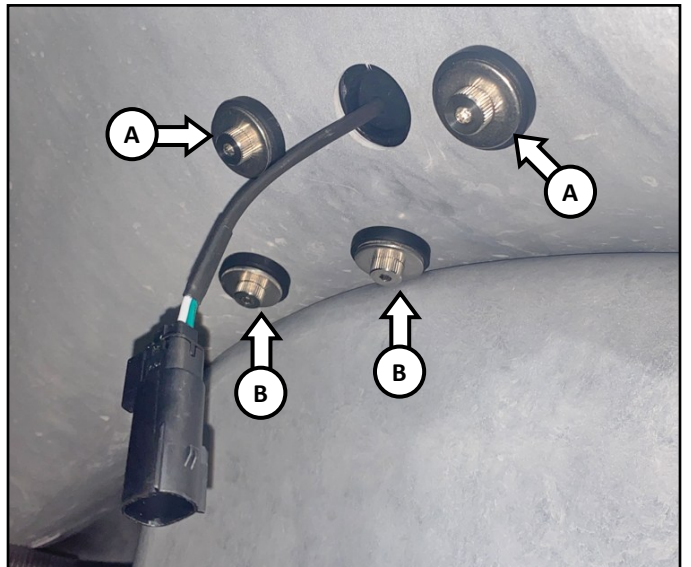
Apply supplied gaskets to *outside* of hull. **NOTE: Ensure holes are aligned. Gaskets are identical and can be used on either side of craft.**



TIP: Apply glass cleaner to surface of gasket to make it easier to align bolt holes for the following next 2 steps.

Pass electrical connectors on supplied speakers through largest hole in gasket/hull (2 - right speaker / 1 - left speaker) and set speaker in place against gasket.

Secure speakers to hull using supplied hardware (LONGER shoulder bolts at top holes [A] / SHORTER shoulder bolts at bottom holes [B]). **See important notes below.**



⚠ DO NOT USE ELECTRIC OR IMPACT TOOLS ⚠

- Ensure metal washer and compression washer are oriented correctly on bolts.
- Apply blue Loctite to bolt threads.
- Using a hand tool, tighten each bolt 2~3 turns at a time in a crisscross pattern until shoulder of bolt stops against speaker.

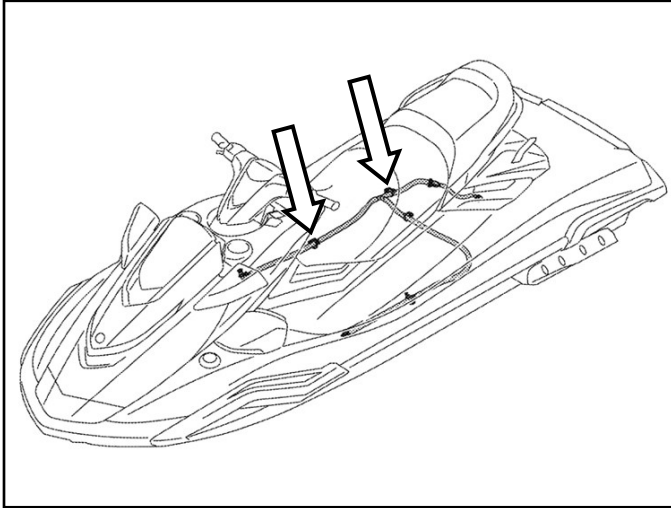
⚠ DO NOT OVERTIGHTEN BOLTS! ⚠

- INSTALLATION INSTRUCTIONS -

Connect remaining audio power harness connectors to speaker connectors (2 - right side / 1 - left side). **NOTE: Ensure connectors lock together securely.**

At battery, disconnect original power harness and connect eyelets on supplied audio power harness to battery terminals. **NOTE: Disconnect Black first, Red second. Reconnect Red first, Black second. Do not overtighten bolts. Apply dielectric grease or white lithium grease.**

Starting at battery and then working forward, secure audio power harness with reusable zip ties securing drain lines to hull. **NOTE: Do not overtighten zip ties.**



At front of craft, neatly arrange wiring so it can be resecured with large zip ties without kinking any wires. **NOTE: It may be necessary to disconnect some connectors to arrange wires more easily. Ensure connectors lock together securely.**



BEFORE YOU LISTEN

On your mobile device, go into the sound settings for each App that you use and do the following where applicable:

- Turn off *any* EQ settings
- Set cellular streaming to highest quality
- Set audio output to highest quality
- Turn off "normalization" in your audio menu

Connect Bluetooth device and *crank it up!*

Replace front storage compartment bulkhead and secure using screws/rivets (4) previously removed.

Replace front storage compartment hood (5 bolts). **NOTE: Do not apply Loctite. Torque to 3.7 ft•lb (5 N•m).**

Check bilge for rags, tools etc.

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

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/Wet Sounds Audio Speakers carry a 2-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.

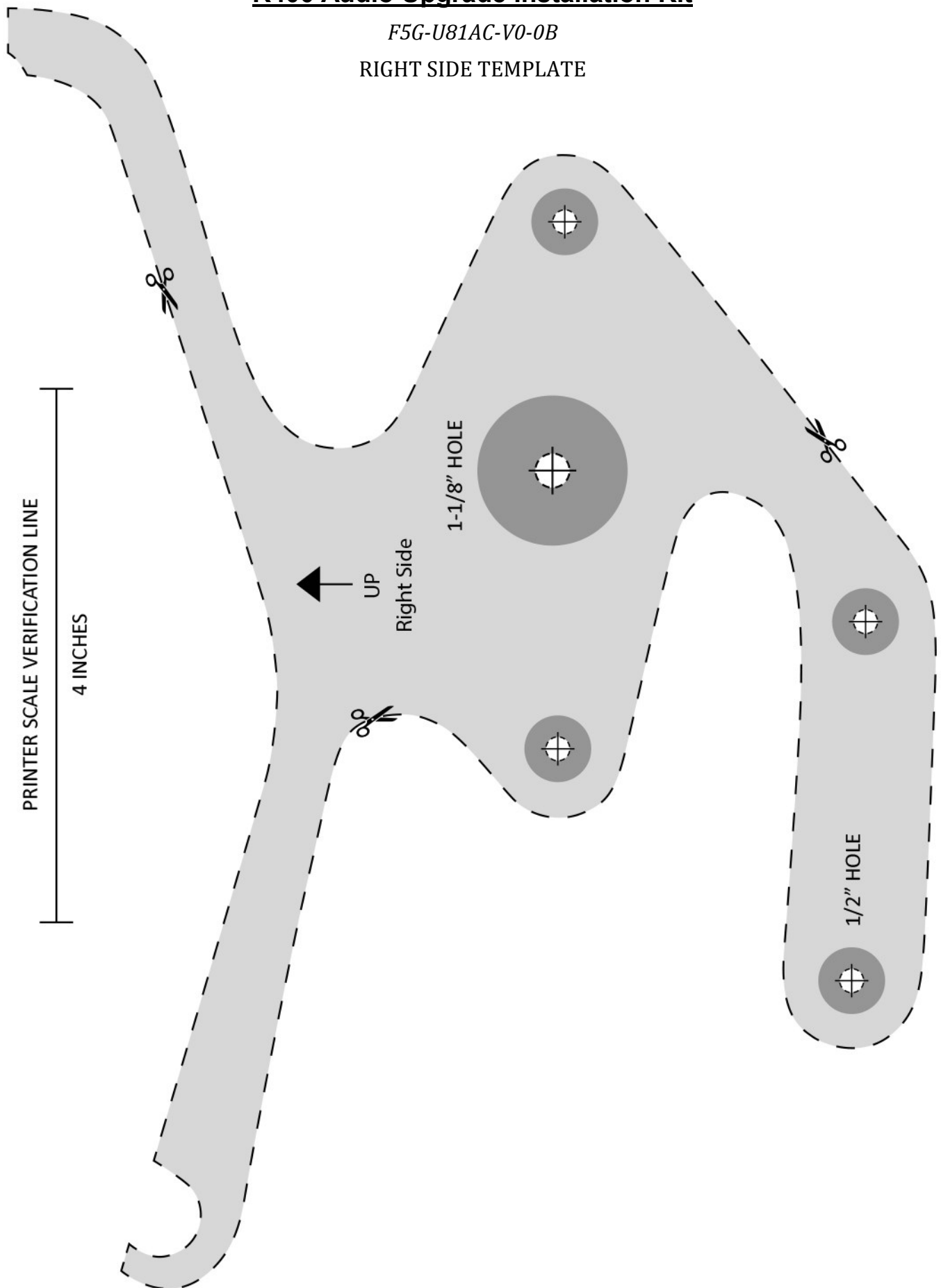
Warranted replacement parts will be returned freight collect.

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R400 Audio Upgrade Installation Kit

F5G-U81AC-V0-0B

RIGHT SIDE TEMPLATE



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R400 Audio Upgrade Installation Kit

F5G-U81AC-V0-0B

LEFT SIDE TEMPLATE

