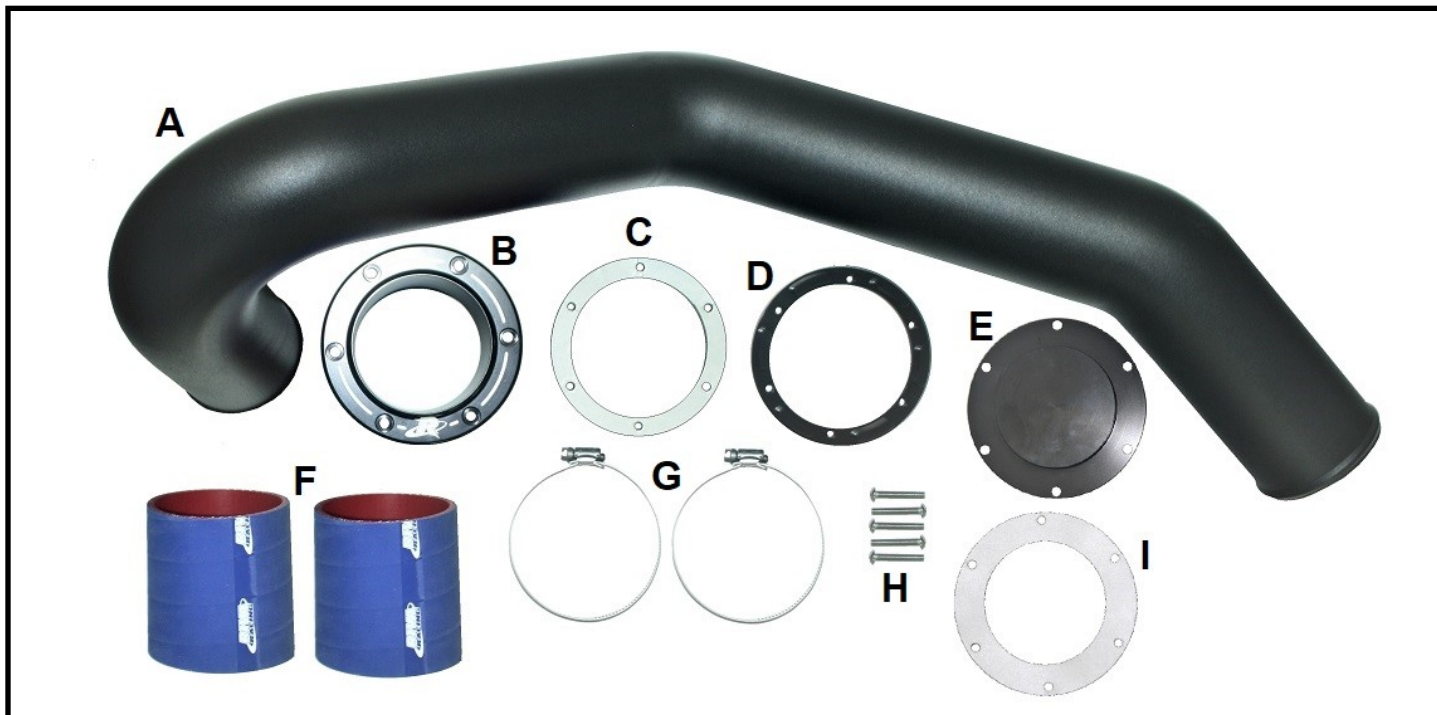




FX 2019+ Rear Exit Exhaust

RY15120



Applications: Yamaha FX 2019+ all models

Approximate Installation Time: 3.5 Hr.

Recommended Specialty Tools:

N/A

Part #

N/A

Required Materials:

Blue Loctite

Permatex "The Right Stuff" Silicone Sealant

Part #

N/A

N/A

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 *****



COMPONENT LIST

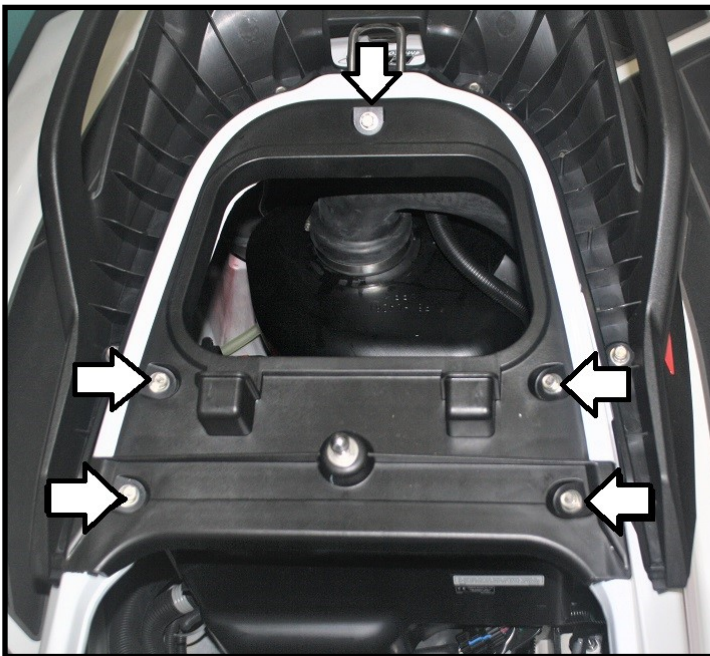
REAR EXHAUST, YAM. FX-SHO, 2019+				
Part #: RY15120				
Item	Description	RIVA Part #	Qty. Req.	Comments
A	Alum. Tube, (Bent To Specs.)	W1-RY15120-T	1	
B	Rear Exhaust Flange	QCA-RY15120	1	
C	Flange Gasket		1	
D	Retainer Ring		1	
E	Billet Block Off Plate		1	
F	Silicone Coupler, 3-1/2 x 4	RY15-3.50/4.0	2	
G	Hose Clamp, (60#) (3-5/16" - 4-1/4")	63004-0060-052	2	
H	Button Head (6MM X 35MM), BHCS	824080SS	6	

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@rivamotorsports.com

- INSTALLATION INSTRUCTIONS -

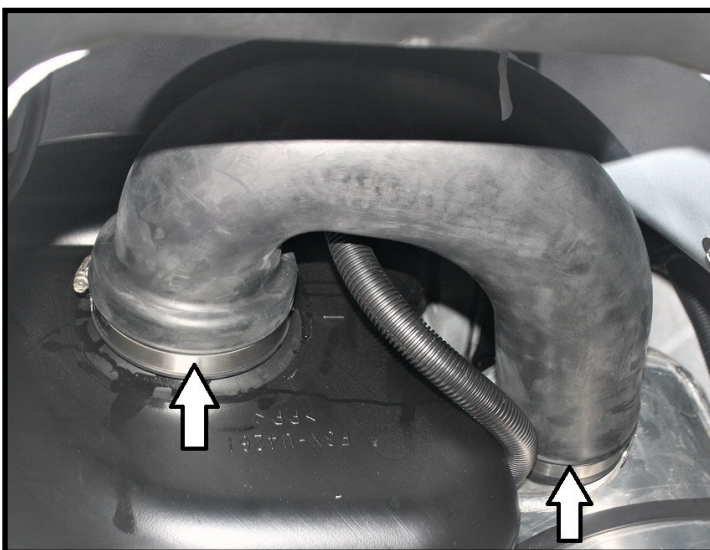
Remove seats. Remove storage case. Remove bolts and nuts (5) holding deck beam assembly. (Figure 1) Remove deck beam assembly.

Figure 1



Loosen hose clamps (2) securing exhaust hose to water-box and resonator. (Figure 2) Remove exhaust hose.

Figure 2



Loosen hose clamp securing resonator to outlet hose. (Figure 3) Pull resonator up and out of outlet hose and remove from hull. Remove flotation foam under resonator and discard.

Figure 3

Disconnect steering cable (A) from steering nozzle, trim rod (B) from nozzle ring, reverse rod (C) from reverse gate, and siphon hose (D) from reduction nozzle. (Figure 4)

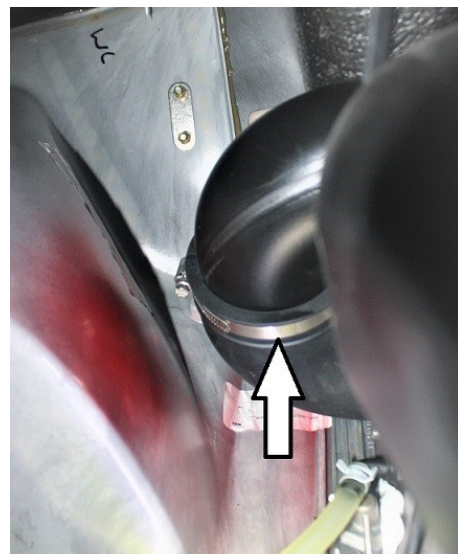
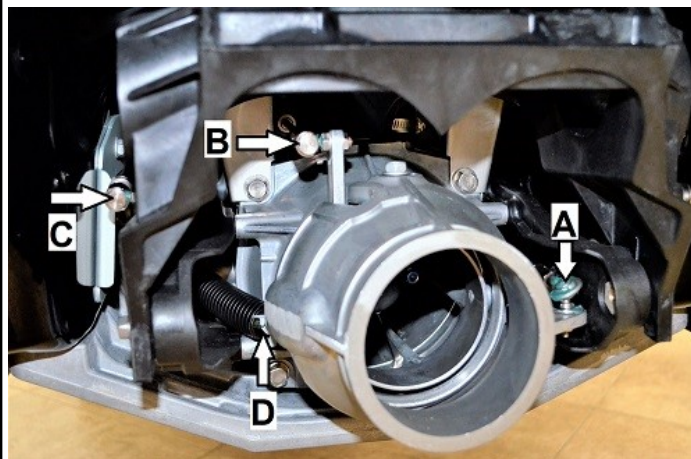


Figure 4



Remove bolts (4) securing pump bracket. Remove visibility spout hose. (Figure 5)

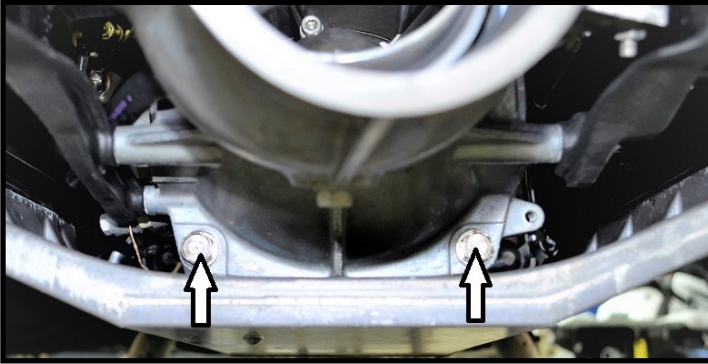
Figure 5



Remove lower nozzle bolts (2). Remove nozzle with reverse gate. **Note: Nozzle is sealed with silicone. It may be necessary to pry gently to remove nozzle. Use care not to damage nozzle or pump.** (Figure 6)

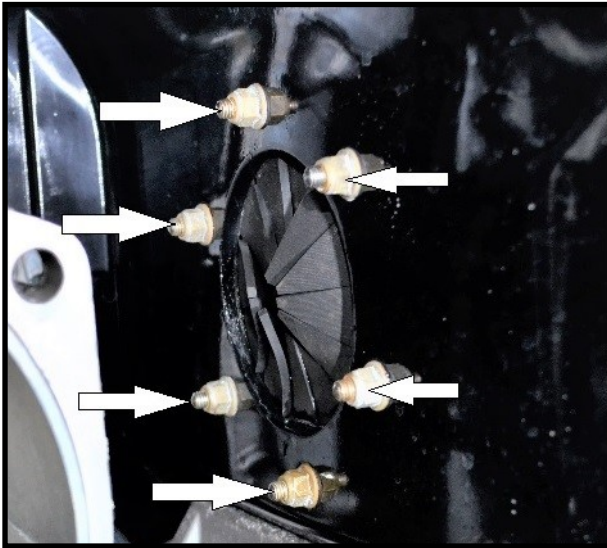
- INSTALLATION INSTRUCTIONS -

Figure 6



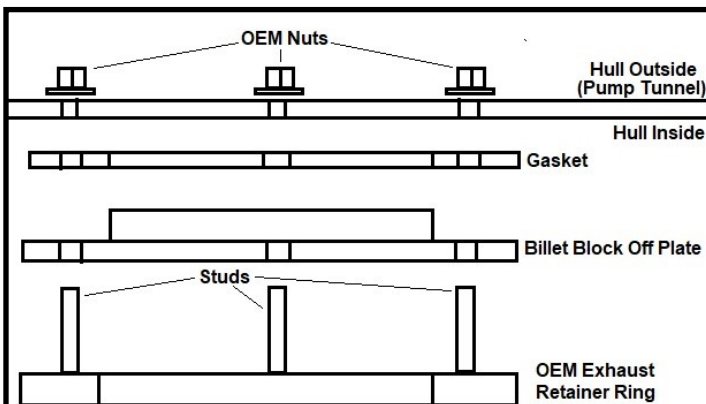
Remove nuts (6) holding OEM exhaust outlet hose to hull. (Figure 7) Remove OEM exhaust outlet hose, retainer ring, and cover valve. Keep nuts and retainer ring for reinstallation. Discard remaining parts.

Figure 7



Place supplied billet exhaust outlet block-off onto OEM exhaust retainer ring so that raised side of block-off faces the same direction as the six threaded studs. Peel paper off adhesive on one side of supplied rubber gasket. Place gasket over studs and onto billet block-off (adhesive side first). (Figure 8) **Note: Two similar ring shaped gaskets are supplied with this kit. The block off gasket is the one with the wider ring.**

Figure 8



Peel paper off adhesive on exposed side of gasket and install block off assembly into OEM hole from inside of hull. Secure with OEM nuts. (Figure 9) **Note: Do not overtighten nuts.**



Figure 9

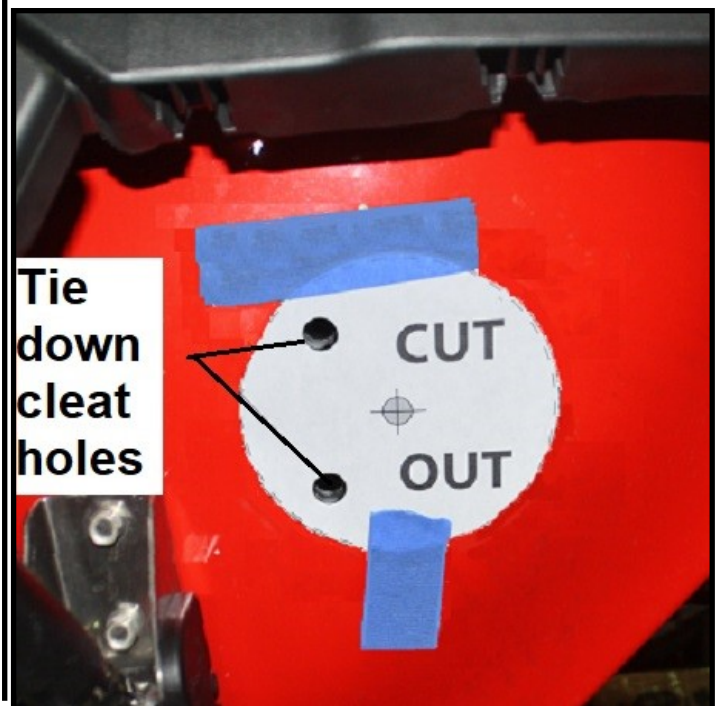
Inside hull at starboard (right) rear remove nuts (2) securing tie down cleat. Remove cleat. (Figure 10)

Figure 10



Cut out supplied template (last page) and affix to starboard (right) rear side of hull using tie down cleat holes as a reference. (Figure 11)

Figure 11



- INSTALLATION INSTRUCTIONS -

Drill a small pilot hole in the center of the template. (at the cross hairs) Remove template. Using a hole saw bit no larger than 3-3/4", create hole for outlet.

Test fit supplied billet exhaust outlet. It may be necessary to grind or file additional material to fit outlet. **Note: Do not remove too much material. Outlet should just fit into opening.**

Insert supplied exhaust outlet into newly created opening in transom. Ensure the "R" logo is at the bottom and contour of outlet flange is flush against the hull. Secure in position with tape. (Figure 12)

Figure 12



Drill one bolt hole and insert one supplied M6 button head screw. Repeat for remaining five bolts working from opposing sides. Remove outlet and thoroughly clean outlet and hull both inside and out.

Remove paper and install supplied rubber gasket onto back of billet exhaust outlet flange. Apply "below water-line" silicone sealant onto hull side of gasket.

Install outlet into hull and secure with tape. Apply Blue Loctite on two of the six supplied button head bolts and insert half way into outlet opposite each other. (Figure 13)

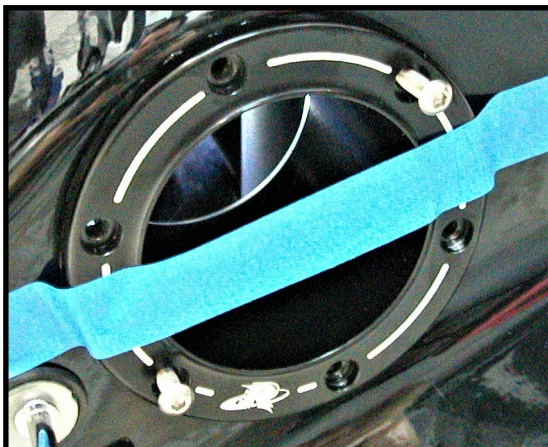
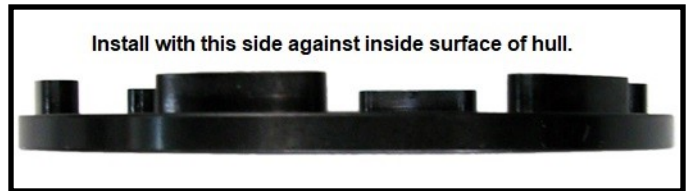


Figure 13

From inside of hull, carefully place supplied billet collar onto exhaust outlet. Ensure raised stand offs are toward the hull. (figure 14)

Figure 14



Slide collar onto outlet until you feel it touch the ends of the two bolts. Carefully try to center the top of one or both of the bolts in the threads in the collar. From outside of hull slowly tighten bolt aligned with collar. Once you feel it grab tighten a few turns. Move to opposite bolt and do the same. Once bolts easily screw into collar install remaining bolts and tighten evenly. **NOTE: Apply blue Loc-tite to bolts. Do not over tighten.**

Tip: It may be difficult to reach the outlet by hand to slide the collar onto the outlet. Take a straight stiff wire (like a straightened coat hanger wire). From the outside of the hull, run it through the top bolt hole of the outlet into the hull. Slip the end of the wire through one of the bolt holes in the collar and make a hook on the end. From outside the hull use the wire to pull the collar over the outlet and up against the inside of the hull. (Figures 15 and 16)

Figure 15



Figure 16



- INSTALLATION INSTRUCTIONS -

Thoroughly clean outside of water box outlet with a non-residual cleaner. Install supplied exhaust coupler onto outlet and secure with OE clamp left on outlet during removal process. **NOTE: Do not over tighten clamp.** Loosely install other previously removed OE clamp over exhaust coupler. (Figure 17)

Figure 17

Install supplied coupler onto outlet end of supplied rear exhaust pipe. Secure using supplied hose clamp. **Note: Do not over tighten clamp.**

Slide the second supplied hose clamp over the coupler and position next to first clamp. **Slightly** tighten just enough to keep in position. (Figure 18)



Figure 18



Install exhaust outlet side of tube (side with coupler) onto rear exhaust outlet inside hull. Slide 2nd hose clamp down coupler & into position on outlet. Secure coupler onto outlet with clamp. **Note: Do not over tighten clamp. Tip: Use window cleaner on coupler to ease installation. Also, using a cordless ratchet helps give some additional "reach" to secure the hose clamp in position. When using electrical tools inside hull be sure area is well ventilated and no fumes are present.**

Install curved end of exhaust tube into coupler on waterbox outlet. Secure in position with hose clamp. **Note: Do not over tighten clamp. Tip: Use window cleaner on coupler to ease installation.** (Figure 19)

Figure 19



Note: It may be necessary to rotate waterbox to align outlet with exhaust tube. Loosen clamp securing coupler at waterbox inlet and remove hold down strap. (Figure 20)

Figure 20

Align waterbox if necessary and secure clamp on waterbox inlet.

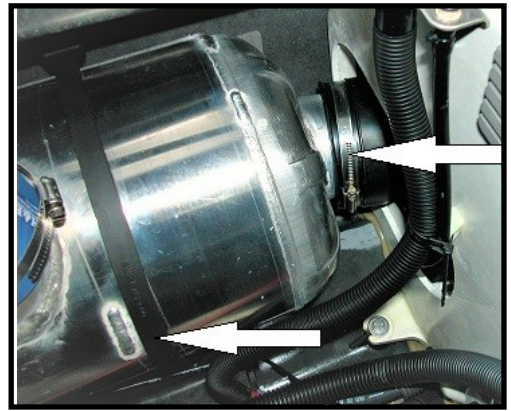
Note: Do not over tighten clamp.

Reinstall pump bracket onto pump.

(Refer to Figure 5, page 3.) Secure in position with the 2 short bracket bolts and 2 long top reduction nozzle bolts. **Note: Apply blue Loctite to bolts.** Torque the 4 long reduction nozzle bolts to 29.5ft lbs. (Refer to Figure 6, page 4.)

Reconnect visibility spout hose to fitting on top of reduction nozzle. (Refer to Figure 5, page 3.)

Reconnect steering cable to steering nozzle. Reconnect trim rod to nozzle ring. Reconnect reverse rod to reverse gate. (Refer to Figure 4, page 3.)



Check bilge for tools, rags, etc. Run craft on a flush kit 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@rivamotorsports.com.

Limited Warranty

RIVA Rear Exit Exhausts carry a 90 day 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.

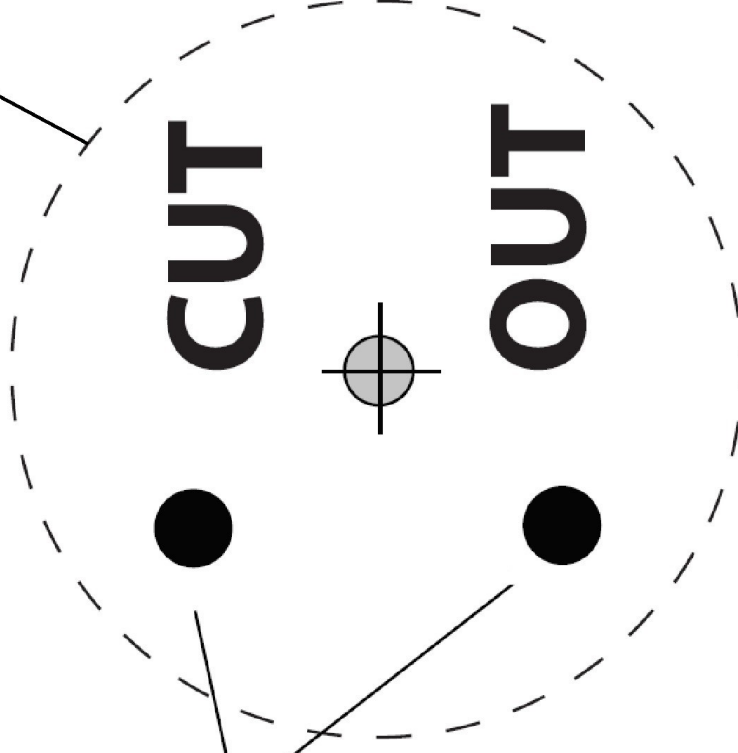
Rear Exhaust Template
VXR/VXS 2015+
GP1800 2016+
FX 2019+

TOP



Printer Check

This circle should be 3-3/4 in. diameter



Original cleat

Mounting holes

Use a 3 3/4" Hole Saw
Bit to make initial hole

IMPORTANT:

Before printing make sure that
"Output Option/Printing Type/ Scaling"
are set to "NONE" in the Print Dialog Properties
window for your printer.