



YOSHIMURA

RESEARCH&DEVELOPMENT OF AMERICA, INC.

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www.yoshimura-rd.com

RACE SERIES

Qualified Manufacturer Declared "Modified Part"

2009~2020

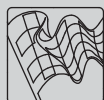
Honda CBR600RR

1228107220 (CF/CF)

1228107520 (SS/CF)

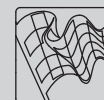
RS-5 Stainless Steel Full-System

FOR CLOSED COURSE COMPETITION ONLY; NOT INTENDED FOR STREET USE



Race Series systems are:

- NOT CARB/EPA tail-pipe emissions compliant.
- NOT street legal.
- For "Closed Course Competition" use only.



You must know how to remove and replace your stock exhaust in order to install this product otherwise have it installed by a professional mechanic. Keep all stock parts from your existing system as some components may be necessary to install your new Yoshimura exhaust depending on the application. Read through all instructions before beginning installation. Exhaust system can be extremely hot. Let motorcycle cool down before beginning installation. Always wear hand and eye protection and take precautionary measures to avoid injury.



NOTE: IN THE STATE OF CALIFORNIA, IT IS ILLEGAL TO MODIFY THE EMISSION CONTROL SYSTEM, WHICH INCLUDES THE CARBURETORS OF ANY VEHICLE.

Caution: Exhaust system can be extremely hot. Let motorcycle cool down before beginning installation.

Note: Read through all instructions before beginning installation.

Tools Needed:

Metric Socket Set, Extension, and Ratchet
Metric Combination Wrench Set
Metric Allen Wrench Set
Torque Wrench
Sharp Scissors and Tape

Installation Steps:

1. Remove rider seat (two bolts under rear corner edges of rider seat) and passenger seat.
2. Remove rear seat cowling by removing the four bolts shown in Fig. 1 and pulling the cowling toward the rear of bike and up. Also, remove muffler heatshield bolt (as shown in Fig. 1) at this time.
3. Disconnect the three electrical connectors shown in Fig. 2 (brake light, running light, and rear turn signals).
4. Remove rear fender, brake light, and rear turn signals from motorcycle (see Fig. 3 and Fig. 4).
5. Remove right side rider foot controls (see Fig. 5 for bolt locations).
6. Remove right side passenger foot rest (see Fig. 6 for bolt locations).
7. Remove stock metal tailpipe heatshield by removing the bolt shown in Fig. 7.
8. Remove stock muffler mounting bolts (see Fig. 8 and Fig. 9).
9. Loosen exhaust clamp shown in Fig. 10 and remove stock tailpipe, muffler, and muffler heatshield.
10. Remove bolt in subframe shown in Fig. 11. This will be the new muffler mounting location for the Yoshimura muffler. The stock muffler mounting points on each side of the subframe will not be used.
11. Cut out the supplied heatshield template.
12. Tape or firmly hold template to adhesive side (not foil side) of heatshield.
13. Trace outline of template on heatshield.
14. Use scissors to cut heatshield to outline. When cutting, keep excess in one piece - the extra piece will be used later.
15. Use rubbing alcohol to clean area where heatshield will be applied.
16. Remove adhesive backing and apply to underside of rear fender assembly (see Fig. 12 for BEFORE and AFTER pictures of adhesive foil heatshield installation).

NOTE: Take a moment to examine how the heatshield lines up with the features of the undertail plastic before you begin.

17. After the heatshield is installed use the scraps to patch or cover any open areas.
18. Remove the front left and right fairings.
19. Remove lower radiator bracket and swing radiator forward to ease removal of stock header.
20. Disconnect exhaust valve cables from servo motor and remove stock header and exhaust port gaskets. (Replace with new exhaust port gaskets) **IMPORTANT: Do not disconnect servo motor!**

NOTE¹: Keep all header mounting hardware. The stock header mounting hardware will be used to mount the Yoshimura header.

NOTE²: For 2013 model, remove O2 sensor from stock header and re-install into Yoshimura midpipe.
21. Install Yoshimura manifolds and flanges using the stock header nuts (see Fig. 13 for correct flange orientation and spring locations). Leave bolts loose to ease header installation.
22. Transfer all mounting hardware from stock header to Yoshimura header (see Parts Diagram on last page).
23. Install Yoshimura header from one end of the engine to the other by slipping one tube at a time onto manifolds.
24. Connect header to flanges using the supplied springs.
25. Bolt header to chassis mount using stock hardware.
26. Slide supplied collector clamp over the inlet of the Yoshimura tailpipe and slide tailpipe onto Yoshimura header outlet.
27. Install supplied muffler clamp heat insulator to inside of muffler clamp. Slide muffler clamp onto Yoshimura muffler and slide Yoshimura muffler onto Yoshimura tailpipe. Line up muffler clamp ears with new muffler mount location (shown in Fig. 11). Bolt the right side of the clamp to the subframe with the supplied bolt. Slide left side of muffler clamp over the protruding bolt and install the supplied nut.
28. Install exhaust springs between the muffler and the tailpipe.
29. Torque stock header nuts to 1.0 kg-m (7.3 lb-ft). Torque header chassis mount bolt to 2.3 kg-m(16.5 lb-ft).
30. Check alignment of exhaust, then torque supplied collector clamp to 1.25 kg-m (9 lb-ft).
31. Torque muffler clamp bolt and nut to 2.5 kg-m (18 lb-ft).
32. It is recommended that the muffler and tailpipe be wiped down with rubbing alcohol to remove oil and fingerprints. This will help prevent tarnishing of the finish after the exhaust is heated up.
33. Install rubber grommets into the stock plastic muffler heatshields (see Fig. 14, Fig. 15, and Parts Diagram on the last page).
34. Re-install tailpipe heat shield, rear fender, seat cowling, foot peg, and seat in reverse order of disassembly. Check for proper operation of tail light, brake light, and turn signals before completion.
35. Check for proper clearance between new exhaust system and motorcycle. (i.e. Swing-arm, body work, etc.) If any problem is found, please carefully follow through the installation steps again. If problem still persists, please call Yoshimura tech department at (800)634-9166 / in CA (909)628-4722.

Note: After starting motorcycle, it is normal for new exhaust system and muffler to smoke until oil residue burns off.



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6

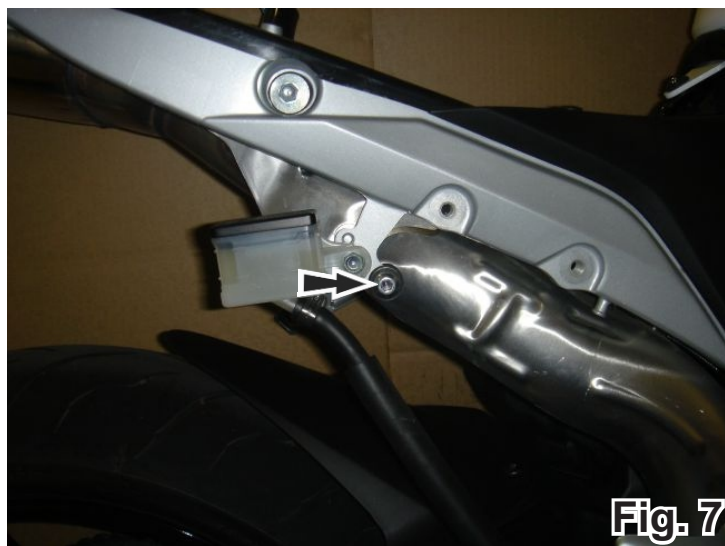


Fig. 7



Fig. 8



Fig. 9

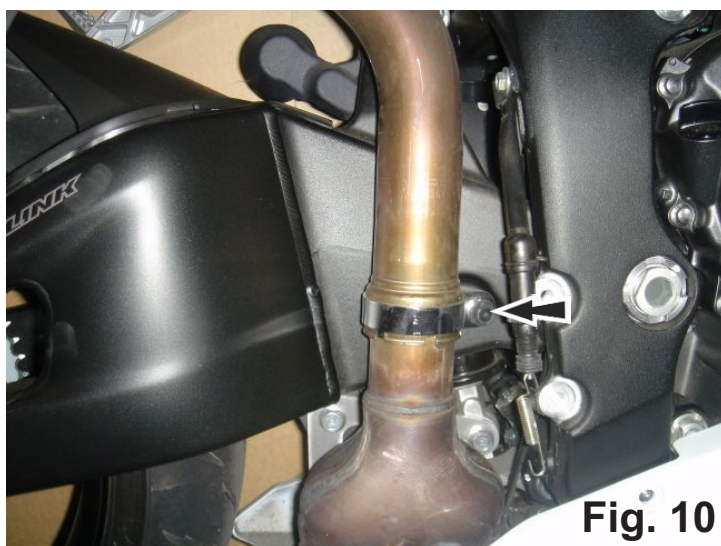


Fig. 10

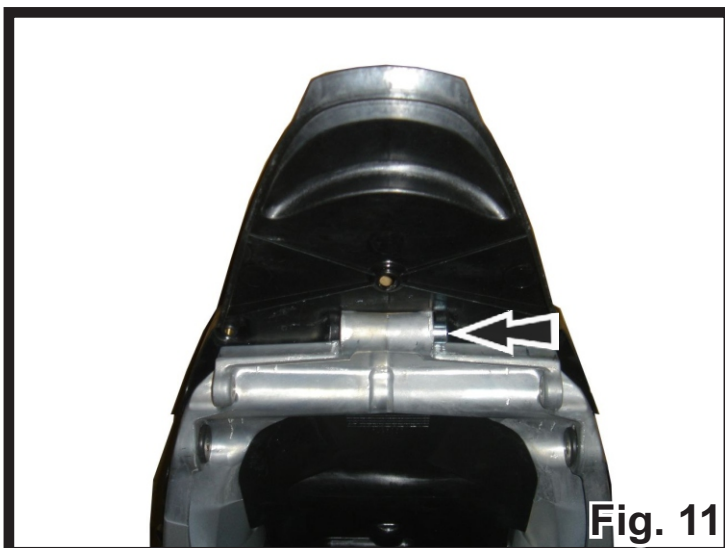


Fig. 11

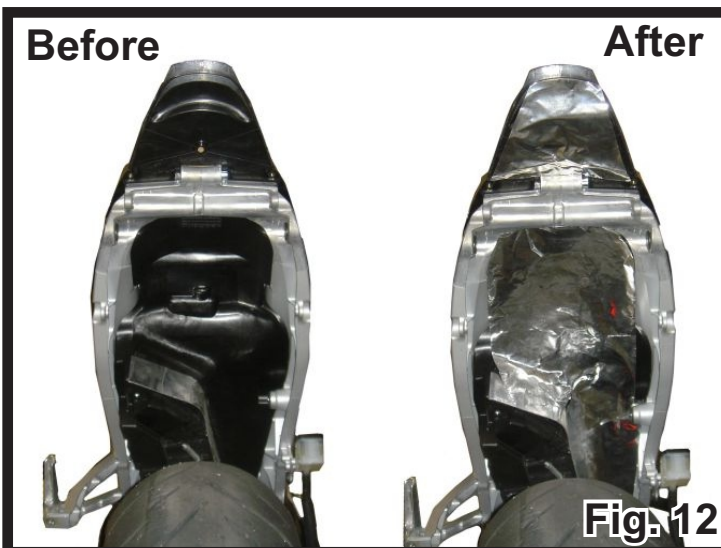
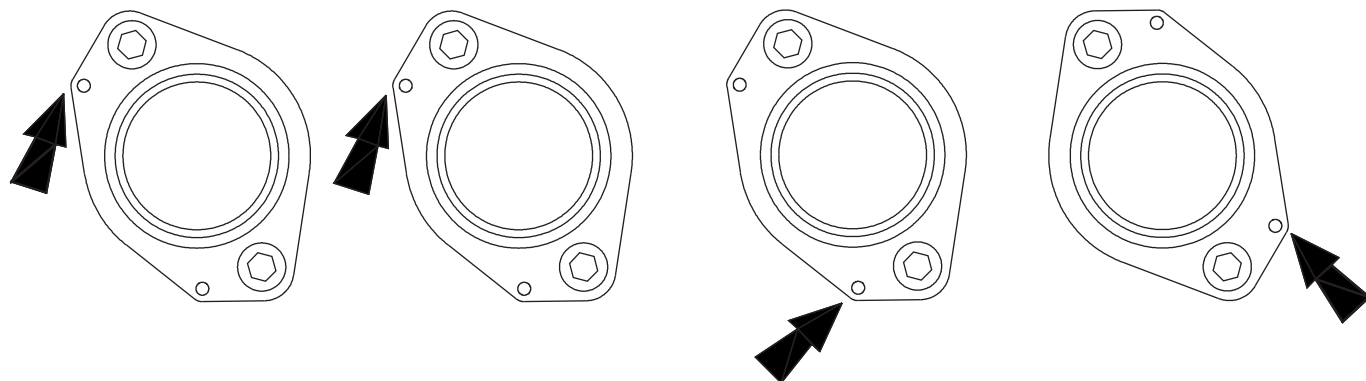


Fig. 12

Looking at Front of Engine

Exhaust Flange Orientation



Arrows Show Spring Locations

Fig. 13

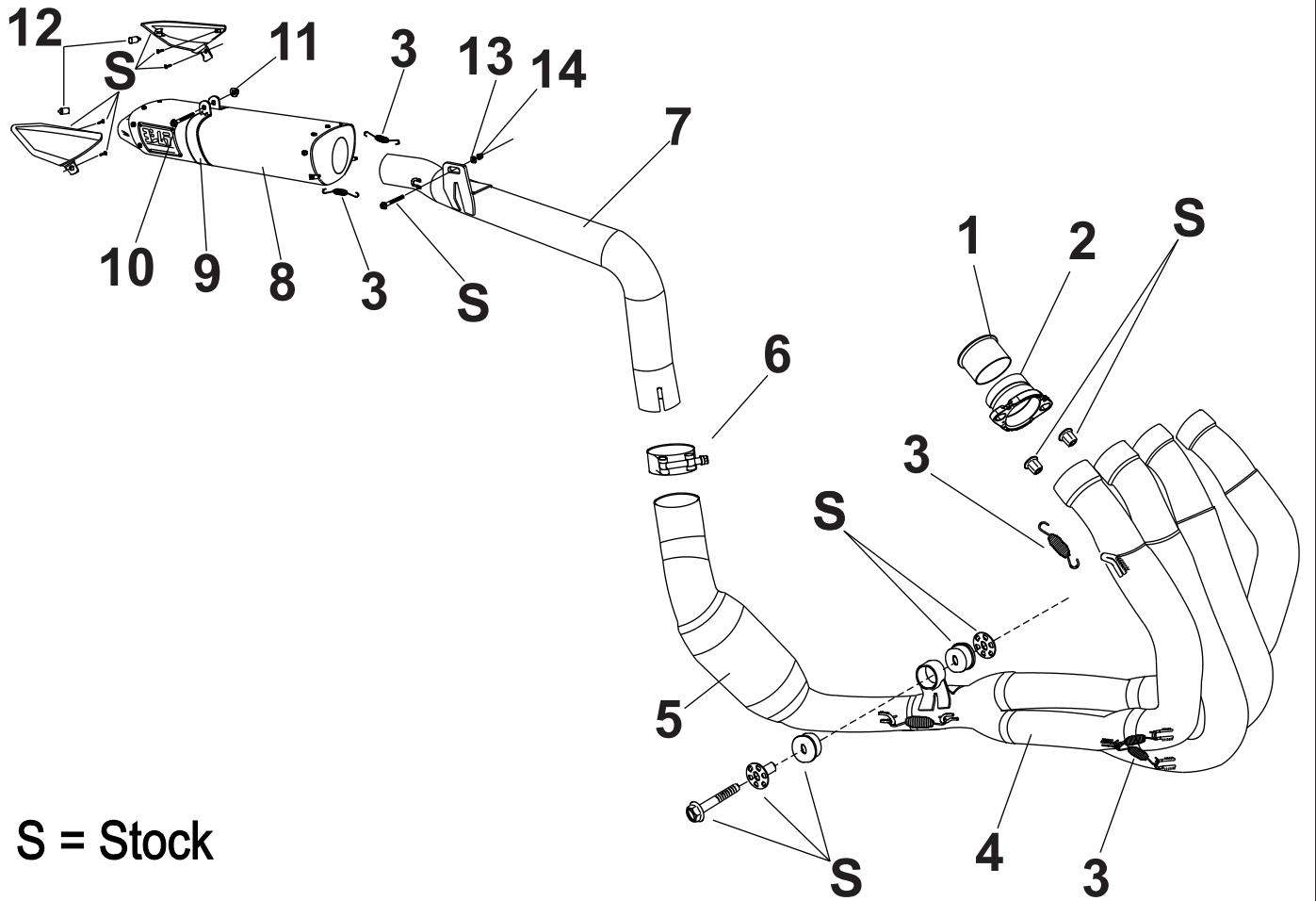


Fig. 14



Fig. 15

#1228107(220,520)



S = Stock

Parts Diagram

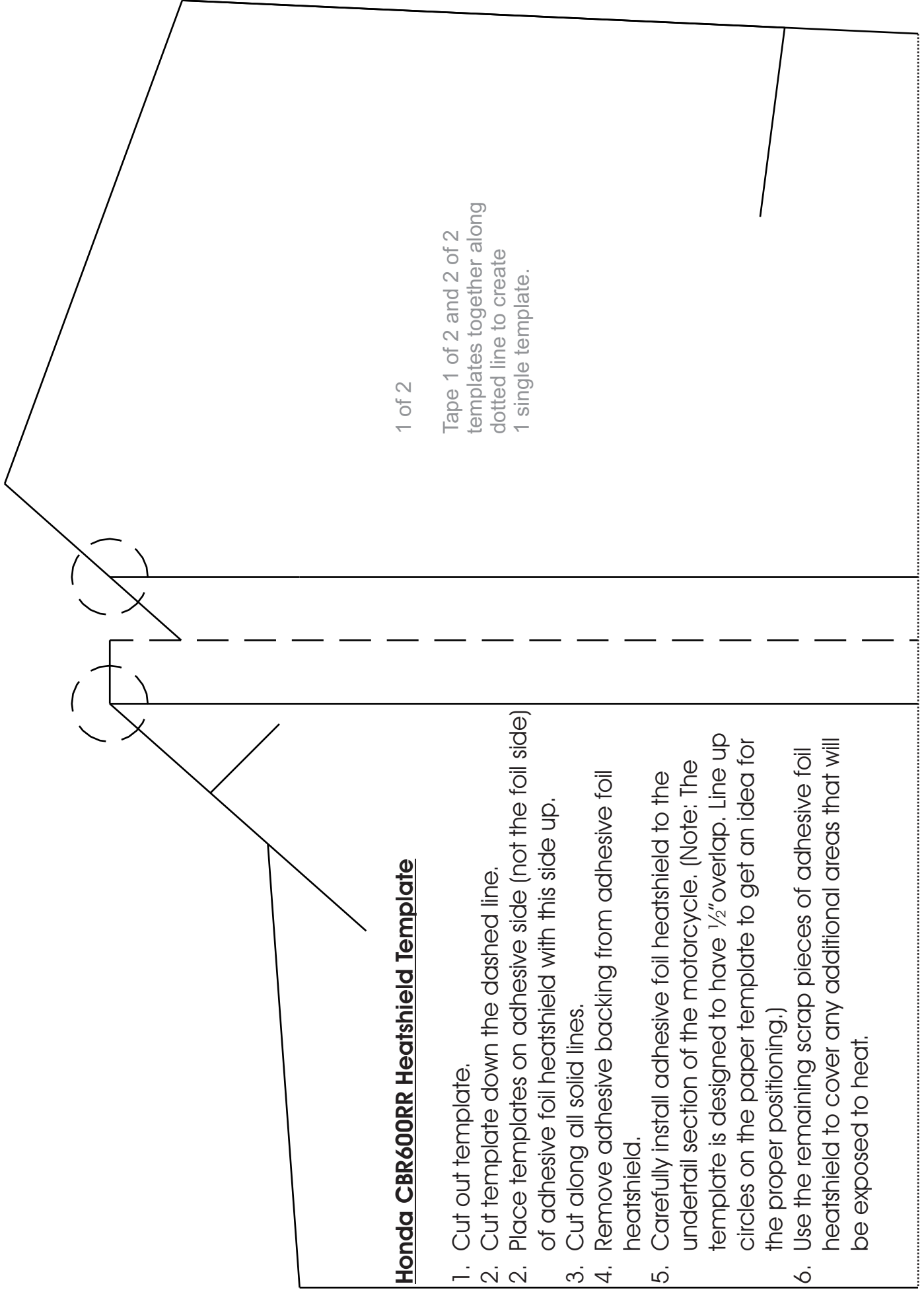
NO.	DESCRIPTION	QTY	PART #
1	Yoshimura Exhaust Manifold	4	1228SMT
2	Yoshimura Exhaust Flange	4	1228SDY
3	Medium Exhaust Spring	8	RACE-SPS-1
4	Yoshimura Header	1	1228-404
5	Yoshimura Midpipe	1	12281-CMA
6	Stainless Steel Collector Clamp	1	27-62MSH
7	Yoshimura Stainless Steel tailpipe	1	1228-435
8	RS-5 Muffer Assembly with Carbon Fiber Sleeve with Stainless Steel Sleeve	1	CRRS5126CR SRRS5126C
9	Stainless Steel Muffer Clamp Stainless Steel Sleeve use Carbon Fiber Sleeve use	1	1227-MPCX 1227-MPC
10	8mm x 65mm Bolt (Fully Threaded)	1	M8X65H-F
11	8mm Nut	1	8MMNUT
12	Rubber Bumpers	2	4284-034
13	6mm Washer	1	6MMWASHER
14	6mm Lock Nut	1	6MMLN
**	O2 Bung Plug	1	M18X13PLG
**	Adhesive Back Foil Heatshield (8" X 16")	2	1200-00-01
**	Muffer Clamp Heat Insulator	1	HT SHLDTRS
**	Foil Heatshield Template	1	**
**	Low Volume Insert	1	INS-09-K
**	Yoshimura Spring Puller Tool	1	ST-200
**	Yoshimura Vinyl Sticker	1	17029

Honda CBR600RR Heatshield Template

1. Cut out template.
2. Cut template down the dashed line.
2. Place templates on adhesive side (not the foil side) of adhesive foil heatshield with this side up.
3. Cut along all solid lines.
4. Remove adhesive backing from adhesive foil heatshield.
5. Carefully install adhesive foil heatshield to the undertail section of the motorcycle. (Note: The template is designed to have 1/2" overlap. Line up circles on the paper template to get an idea for the proper positioning.)
6. Use the remaining scrap pieces of adhesive foil heatshield to cover any additional areas that will be exposed to heat.

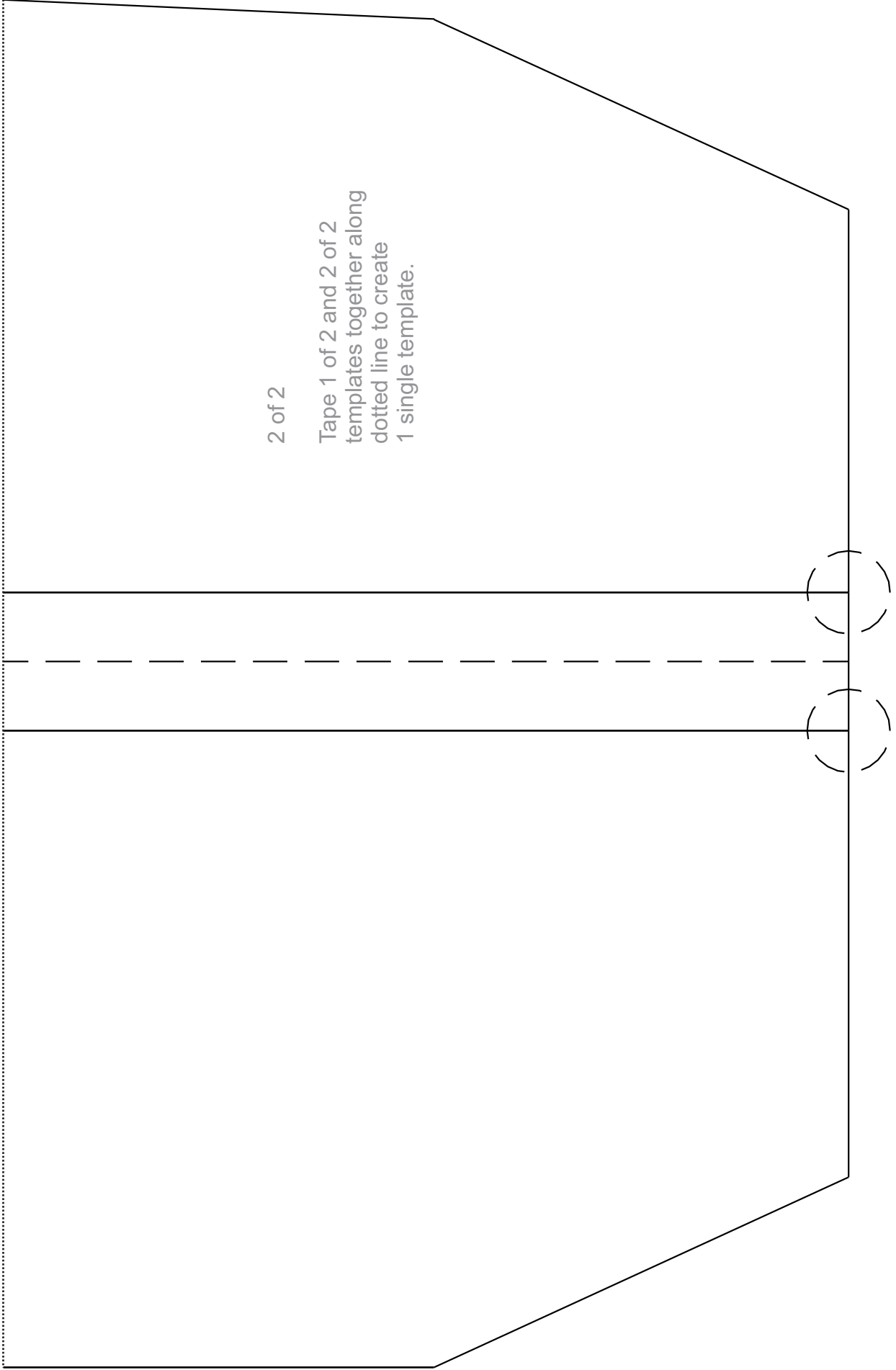
1 of 2

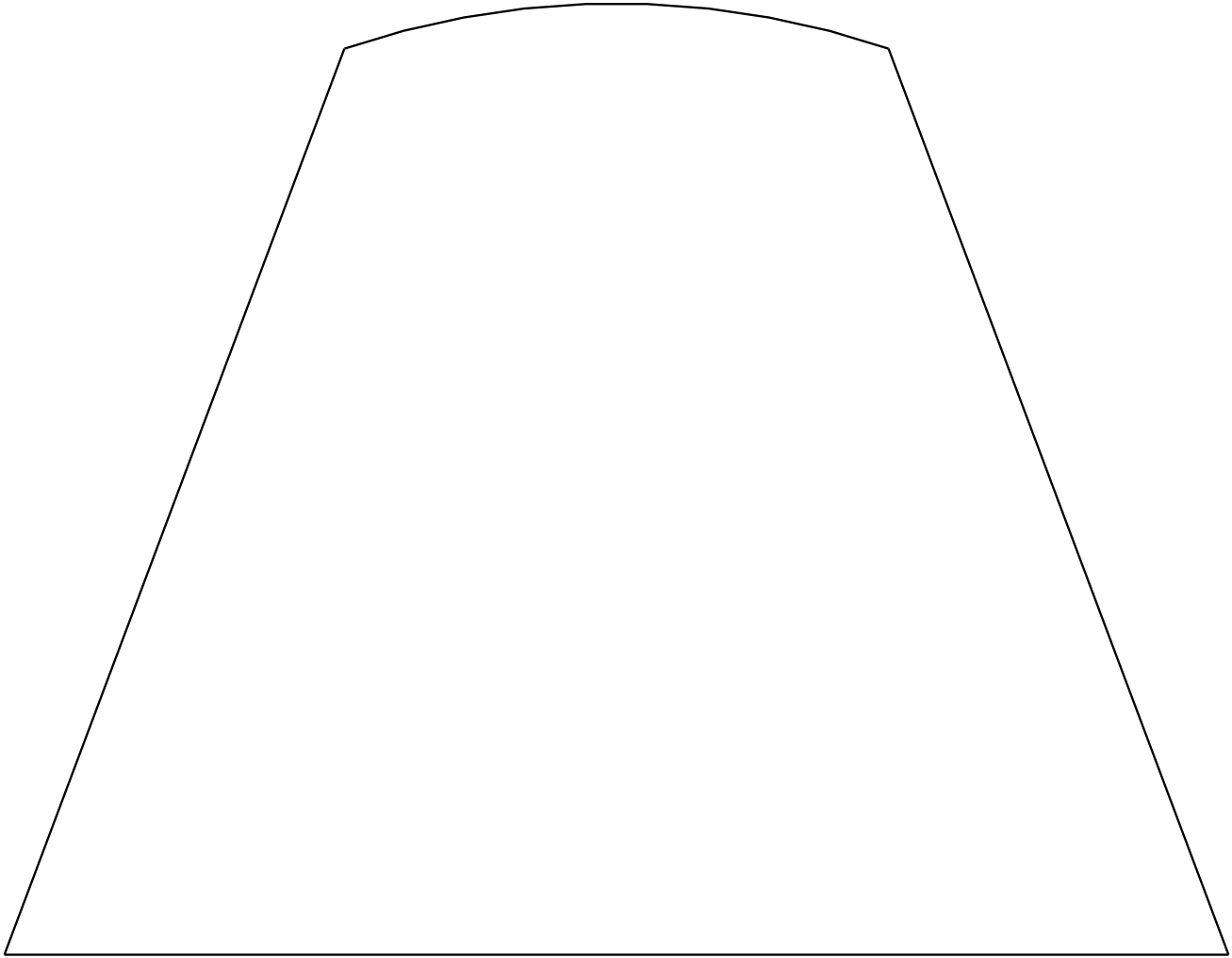
Tape 1 of 2 and 2 of 2 templates together along dotted line to create 1 single template.



2 of 2

Tape 1 of 2 and 2 of 2
templates together along
dotted line to create
1 single template.





Honda CBR600RR Heatshield Template

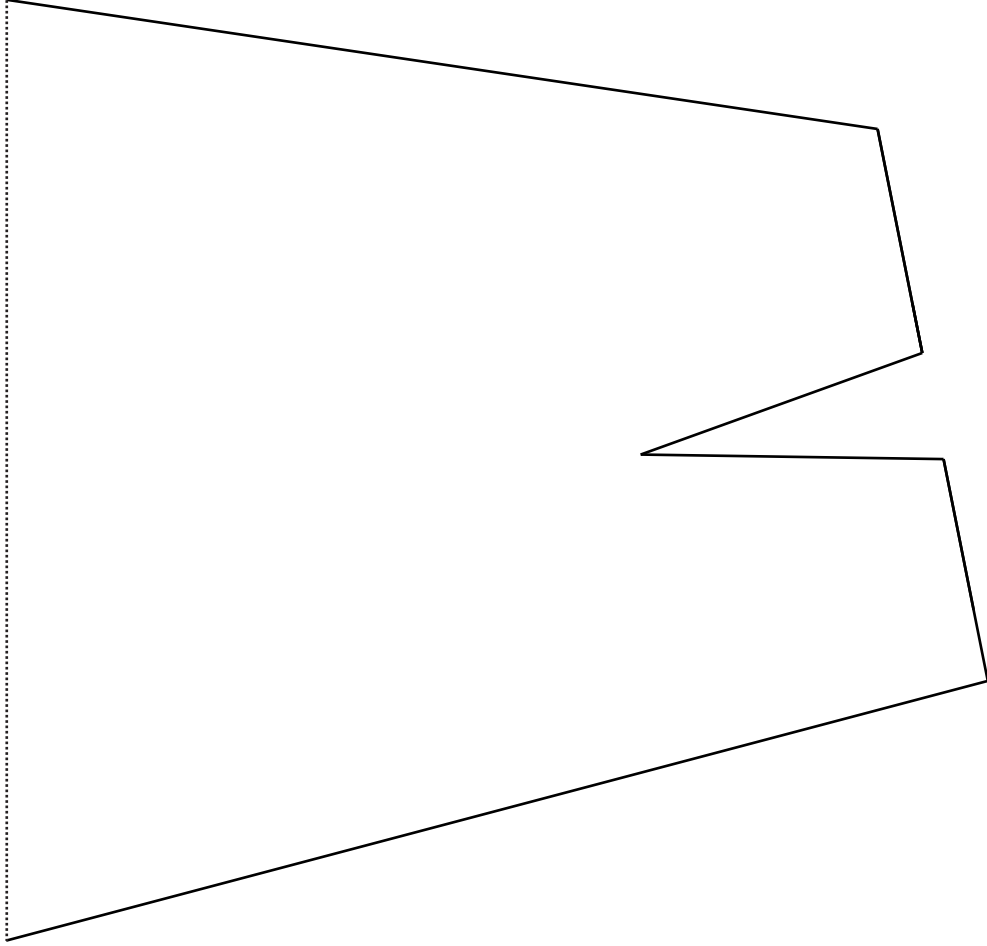
1. Cut out template.
2. Center template on adhesive side (not the foil side) of adhesive foil heatshield with this side up.
3. Cut along all solid lines.
4. Remove adhesive backing from adhesive foil heatshield.
5. Carefully install adhesive foil heatshield to the undertail section of the motorcycle.
6. Use the remaining scrap pieces of adhesive foil heatshield to cover any additional areas that will be exposed to heat.

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2 of 2

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Dear Yoshimura Customer,

Congratulations and thank you for purchasing a Yoshimura Exhaust System. Over six decades of experience in research and development, state of the art machinery, materials and craftsmanship of the highest quality all come together in a product of exceptional quality and performance—in other words, this is the best thing you can put on your bike.

We strive to provide you with a product perfect in fit and finish. However, if you have any problems, please give us a call. We have found that most fitment issues can be easily resolved by a conversation with one of our knowledgeable and friendly staff. If the issue cannot be resolved this way, our warranty evaluation program may be the answer. Please take a moment to review our recommendations for the care of your exhaust and our warranty information.

PLEASE NOTE: If you have any doubts about your exhaust: **DO NOT START THE MOTORCYCLE! ONCE AN EXHAUST HAS BEEN USED OR MODIFIED, IT CANNOT BE RETURNED FOR CREDIT OR EXCHANGE.**

EXHAUST SYSTEM MAINTENANCE

Yoshimura Exhaust Systems require very little care and maintenance; here are a few tips:

1. Use mild car/motorcycle soap to clean the exhaust system—do not use any abrasives or degreasers.
2. Clean your exhaust with metal/stainless polish every 1-2 months to retain the luster and remove dirt and grime.
(DO NOT USE POLISH ON “WORKS FINISH” SYSTEMS)
3. Avoid contaminating exhaust surfaces when hot.
4. Your exhaust system will change color (blue, magenta, purple, and/or gold) due to heat; this is normal.
5. Keep all clamps, bolts and other fasteners tight as exhaust systems are susceptible to vibration damage.
6. If you ride in coastal regions or areas that use salt to control ice and snow, wipe the exhaust down after it cools to remove any possible salt residue, which can result in rusting.
7. If you are storing your motorcycle for the season, wipe the exhaust system down with rubbing alcohol before storage.
8. Head pipes glowing (visible in normal light) may indicate an excessively lean condition that must be corrected.

CARBON FIBER:

Carbon fiber equipped exhaust components require special attention.

The following addresses wear issues directly related to carbon fiber:

1. Keep all clamps, bolts and other fasteners tight. Carbon Fiber is very susceptible to vibration damage.
2. Keep all chemicals and solvents away from the carbon fiber, as they will damage the finish.
3. High temperatures will cause the resin in the carbon fiber to break down. Visual signs such as an amber hue in the resin may be early signs of heat damage to carbon fiber.
4. Upon seeing amber colored resin, discontinue use. The exhaust system needs to be inspected by a representative from Yoshimura, for repack, and/or repair. Continued use will cause component failure.

STAINLESS STEEL:

Stainless Steel is not rust proof but is less prone to rusting, staining and pitting; but it is prone to oxidation like all metals.

WORKS FINISH:

1. Works Finish exhaust systems should never be cleaned with abrasives or polishes.
 2. Yoshimura recommends using “Bar Keepers Friend” cleaner to remove minor stains.
 3. Surface reconditioning services are available to remove scratches and undesirable discoloration due to extreme heat.
- Contact Yoshimura Tech Department at (800) 634-9166 / in CA (909) 628-4722 for more information.

RE-PACKING TIPS

To maintain maximum sound and engine performance the muffler packing will need to be replaced at some time during the muffler's life. Yoshimura recommends repacking your muffler at least once a year.

Failure to maintain the muffler packing may cause damage to the muffler and/or void the warranty. Regularly inspect the muffler body for discoloration, cracks, rattling, or other signs of wear caused by depleted muffler packing. If muffler packing is determined to be depleted or worn, a Yoshimura muffler re-pack kit is highly recommended to restore the muffler to optimum maximum performance.

Yoshimura offers a 3-5 day turn around (plus transit time) to inspect and refurbish used and damaged mufflers.

For more information on muffler repacking please visit our website at:

<http://www.yoshimura-rd.com/muffler-repacking>

IMPORTANT TECHNICAL NOTE

Yoshimura recommends on all race exhaust systems, that all spring joints be safety wired. Recommended wire type 304/316 stainless steel with a .032" diameter should be used.

YOSHIMURA EXHAUST LIMITED WARRANTY

All Yoshimura R&D of America, Inc., exhaust systems carry a one-year limited warranty against defects in workmanship and/or materials.

WHO IS COVERED?

This warranty is provided to the original purchaser of the exhaust system.

WHAT VOIDS THE WARRANTY?

1. Abuse, misuse, improper installation and/or modifications
2. Custom applications
3. No proof of purchase at the time of warranty. Claimant must provide proof of purchase (original receipt or invoice) and a warranty authorization number (RMA) obtained from Yoshimura.
4. Finishes such as plating or painted surfaces with discoloration or rust due to inclement weather conditions, exposure to salt, exposure to chemicals, or lack of maintenance by the customer are not covered.
5. International grey-market product purchased through a dealer/distributor not authorized for your country will not be supported by this warranty.

EXTENT OF WARRANTY:

Any defective exhaust system properly returned to Yoshimura will be repaired or replaced by Yoshimura. Yoshimura is not responsible for any other expense incurred by the customer under the terms of this limited warranty, nor is Yoshimura responsible for any damages either consequential, incidental, special, contingent or otherwise; or expenses or injury arising directly or indirectly from the use of the exhaust system. Any exhaust system returned to Yoshimura must be sent at the customer's expense along with the proof of purchase and warranty authorization (RMA). Yoshimura reserves the right to determine whether the terms of the warranty, set out above, have been properly followed. In the event that the terms are not followed this warranty is void. Yoshimura is the sole determiner of abuse, misuse, installation errors and modifications—should any of these be found, this warranty is void. The duration of any and all implied warranties are limited to the duration of the express warranty. All incidental or consequential damages are hereby excluded. The warranty gives you specific legal rights and you may have other rights, which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitations and exclusions may not apply to you.

If you have a fitment or other problem, or are missing a part, please double-check this trouble shooting guide first:

1. Reference your instruction sheet and double-check all drawings and instructions
2. Make sure muffler clamps are installed correctly (refer to instructions diagram). On many models, there is a right and wrong way to install. Also verify part numbers on headers and tail pipe.
3. Always make sure to install spring-mounted manifolds and flanges on cylinder head prior to installing headers.
4. Always take time to examine problems in detail.
5. When all else fails, call our technical support line at (909) 628-4722. The technical line is open 9:00am – 4:30pm Monday through Friday, Pacific Time. Please have the following information handy: Year/Make/Model of motorcycle, date of purchase, place of purchase, batch dates and part numbers (found on header and tail-pipe components).
6. Also, feel free to ask through online e-mail at sales@yoshimura-rd.com, or fax your question/problems to (909) 591-2198.

To obtain technical information directly from Yoshimura, call (909) 628-4722.