



YOSHIMURA

RESEARCH&DEVELOPMENT OF AMERICA, INC.

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www.yoshimura-rd.com

RACE SERIES

Qualified Manufacturer Declared "Modified Part"

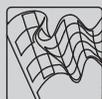
2008~2019

Suzuki GSX1300R Hayabusa

1121002 (CF/CF)

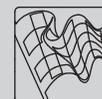
R-77 Stainless Steel Full-System

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. Always wear hand and eye protection and take precautionary measures to avoid injury.

Note: Read through all instructions before beginning installation.

Tools Needed:

Metric Socket Set
Ratchet and Extension
Metric Combination Wrench Set
Allen Swivel Socket Set

Metric Allen Wrench Set
Torque Wrench
Yoshimura Spring Puller

Installation Steps:

- 1 Remove mid and lower fairings.
- 2 Remove lower oil cooler mounting bracket completely from motorcycle (This must be removed to install Yoshimura header with duplex). Also, to ease removal and create more header to radiator clearance, remove lower radiator mount bolt and the bolts connecting the oil cooler to the radiator.
- 3 Remove stock mufflers, stock header, and stock exhaust port gaskets.

NOTE: Exhaust port gaskets will not be used with Yoshimura exhaust system.

NOTE: Stock oxygen sensor must be removed from stock header before stock header can be removed. Stock oxygen sensor will be reinstalled into Yoshimura header.

- 4 Install Yoshimura manifolds and flanges using the stock header bolts (see Fig. 1 for flange orientation). Leave header bolts loose to ease Yoshimura header installation.
- 5 Install header from one side of the engine to the other. Slip one tube at a time onto manifolds.
- 6 Loosen two bolts holding stock chassis bracket to chassis. Bolt header to chassis mount using supplied hardware (see Fig. 2 and parts diagram on page 4). Tighten stock chassis bracket.
- 7 Install stock oxygen sensor into Yoshimura header.
- 8 On the right passenger footrest / muffler mount, switch the stock metal insert from the outside of the right rubber muffler mount grommet to the inside of the right rubber muffler mount grommet (see Fig. 3). Remove the left side stock metal insert.



Fig. 1



Fig. 2



Fig. 3

- 9 Install rubber heat insulator to the inside of the Yoshimura muffler clamp and slide Yoshimura muffler clamp over the Yoshimura muffler.
- 10 Install Yoshimura tailpipe and muffler onto the Yoshimura header and secure using the supplied exhaust springs.
- 11 Bolt muffler to the right passenger footrest (right stock muffler mount location) using the stock muffler mount hardware (see Fig. 3).
- 12 Torque header bolts to 14 lb-ft (2.0 kg-m).
- 13 Torque chassis and muffler mount bolts to 2.3 kgf-m (16.5 lb-ft).
- 14 Standing at the back of the motorcycle, check for proper alignment of the muffler. Adjust if necessary.

NOTE: To adjust fitment, it may be necessary to rotate the tailpipe or the muffler independently until proper alignment of the muffler is achieved.

- 15 It is recommended that the entire Yoshimura exhaust system 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.
- 16 Reinstall all stock items that were removed while removing the stock header.

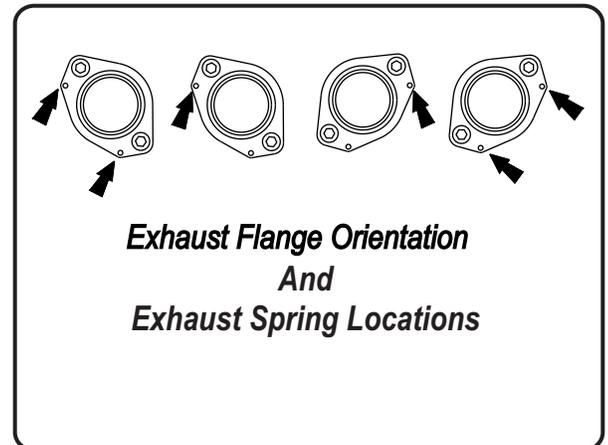


Fig. 1

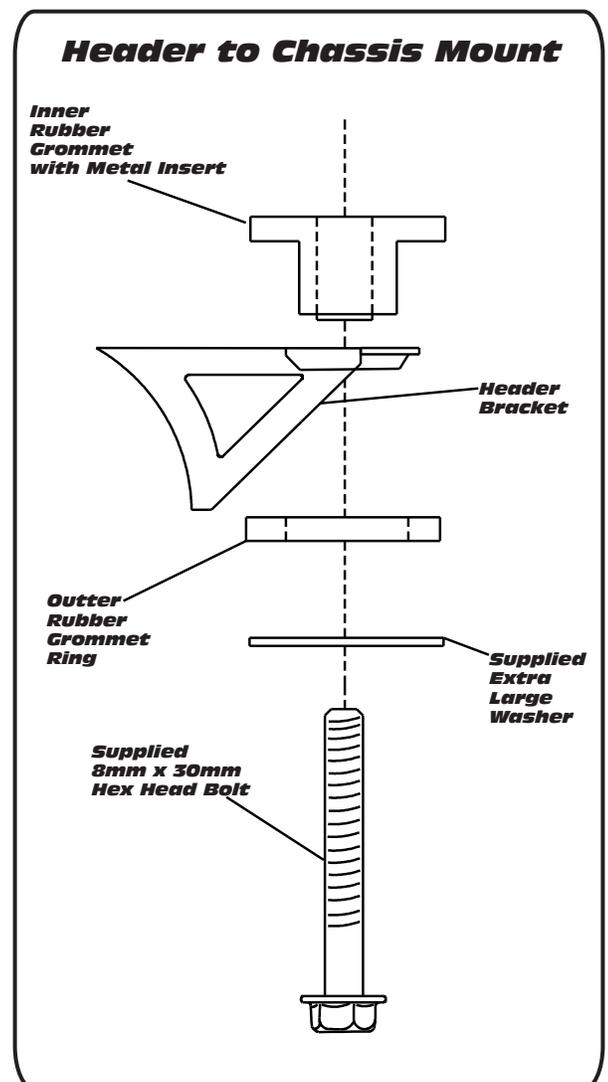


Fig. 2

- 17 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 technical 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.

NOTE: In order to maximize performance, the Yoshimura R&D header design restricts removal of the oil filter when performing maintenance services. To remove the oil filter, two options are available: 1) remove right side oil cooler hose and remove oil filter from right side of header, 2) remove lower radiator bracket and remove oil filter between #2 and #3 header tubes. If removing the right side oil cooler hose, after installing the new oil filter make sure to use a new o-ring when reinstalling the hose and torque to 10 N-m (1.0kgf-m, 7.0 lb-ft). If removing the lower radiator bracket, reinstall bracket after new oil filter has been installed and tighten bracket bolts to (1.0kgf-m, 7.0 lb-ft).

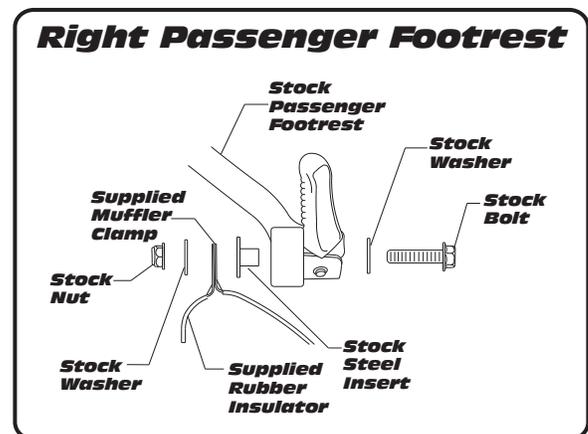


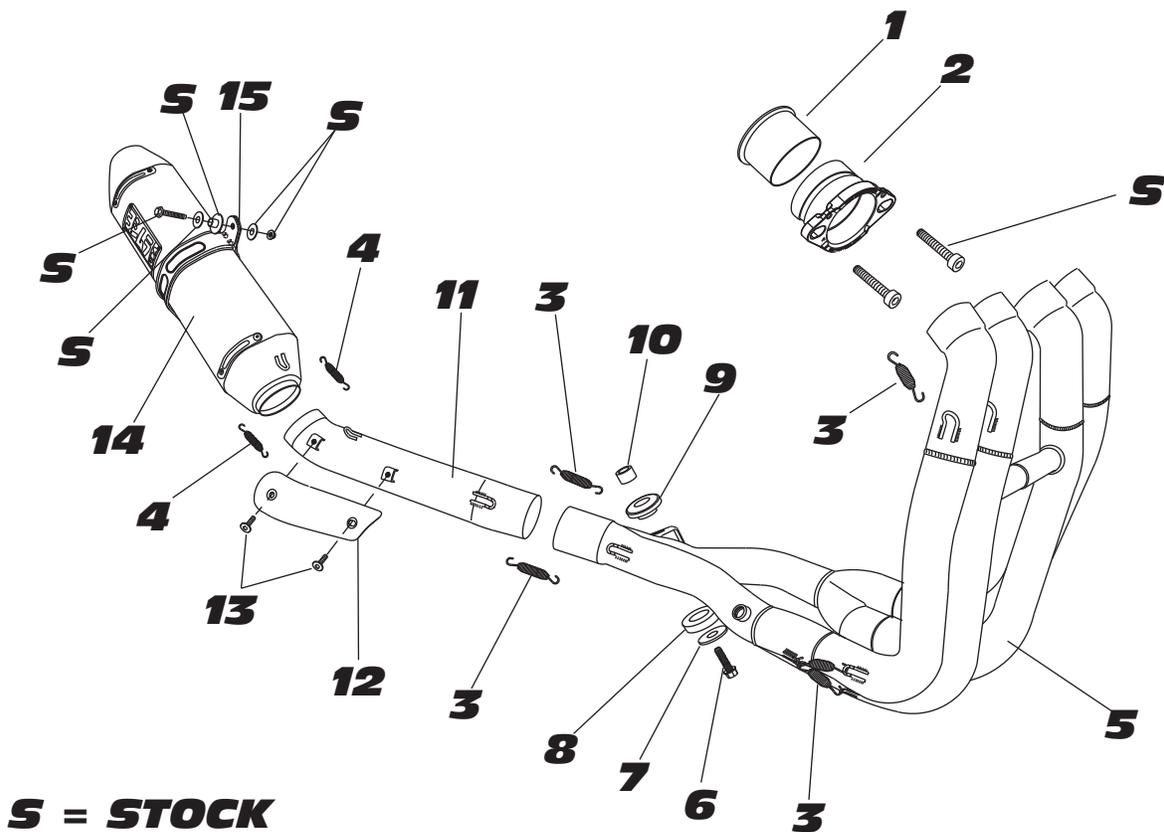
Fig. 3

NOTE: The Yoshimura header includes an adapter for the O2 sensor bung to be used with the M12X1.25 OEM O2 sensor. In the case that an aftermarket O2 sensor is utilized requiring an M18X1.5 thread pitch, remove the adapter shown in Fig 5 to reveal the M18X1.5 bung.



Fig. 4

#112100(2,5,6,7)



Parts Diagram

NO.	DESCRIPTION	QTY	PART #
1	Yoshimura Exhaust Manifold	4	1118SMT
2	Yoshimura Exhaust Flange	4	1118SDY-1
3	Medium Race Spring	12	RACE-SPS-1
4	82MM Race Spring	2	RACE-82MM
5	Yoshimura Header	1	1121-404-1
6	8mm x 30mm Hex Head Bolt	1	M8X30H
7	Extra Large Washer	1	8X38WSH
8	Rubber Grommet Outer	1	Z1030
9	Rubber Grommet Inner	1	Z1031
10	Metal Insert for Rubber Grommet	1	Z1031-SP
11	Yoshimura Tailpipe	1	1121-419
12	Yoshimura Tailpipe Heatshield	1	1121-HSR
13	Heatshield Mounting Bolts	2	RC116HSB
14	Yoshimura Muffler with Carbon Fiber Sleeve with Stainless Steel Sleeve & Stainless Endcap with Stainless Steel Sleeve with Titanium Sleeve	1	CRR77146W SRR77146W-SS SRR77146W TRR77146W
15	Stainless Steel Muffler Clamp with Carbon Fiber Sleeve with Stainless Steel or Titanium Sleeve	1	1121-MPCR 1121-MPCR-X
**	Muffler Clamp Heat Insulator	1	HT SHLDR77
**	Spring Puller Tool	1	ST-200
**	Yoshimura Vinyl Sticker	2	17028-BLK

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: <https://www.yoshimura-rd.com/pages/repack-and-insert-chart>

*****PRO TIP***** Before you install your new muffler for the first-time log the weight in your Owner's or Service manual along with the current hours or mileage on your vehicle. When you are performing periodic maintenance on your vehicle (like a tire change, or an oil change) you can remove your Yoshimura muffler from the vehicle and weigh it again. Over time, the packing material inside your muffler will burn off with use, and the muffler will need to be repacked. When the weight loses approximately 100 grams of the original weight, you should consider getting your Yoshimura muffler repacked. You can order repacking kit or the parts to repack the muffler from the Yoshimura website, or your local dealer. You can also contact the Yoshimura sales office and arrange to send in your muffler for the repacking service too.

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.