



YOSHIMURA

RESEARCH & DEVELOPMENT OF AMERICA, INC.

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www.yoshimura-rd.com

Signature Series

Qualified Manufacturer Declared "Replacement Part"

2008~2014

Polaris

**RZR 800
RZR 4 800
RZR S 800**

394000G551 (SS/SS)

RS-8 Stainless Steel Full-System



Signature Series systems are:

- CARB/EPA tail-pipe emissions compliant.
- Marked with appropriate EPA noise labels.
- Independent laboratory tested for EPA new vehicle noise compliance.

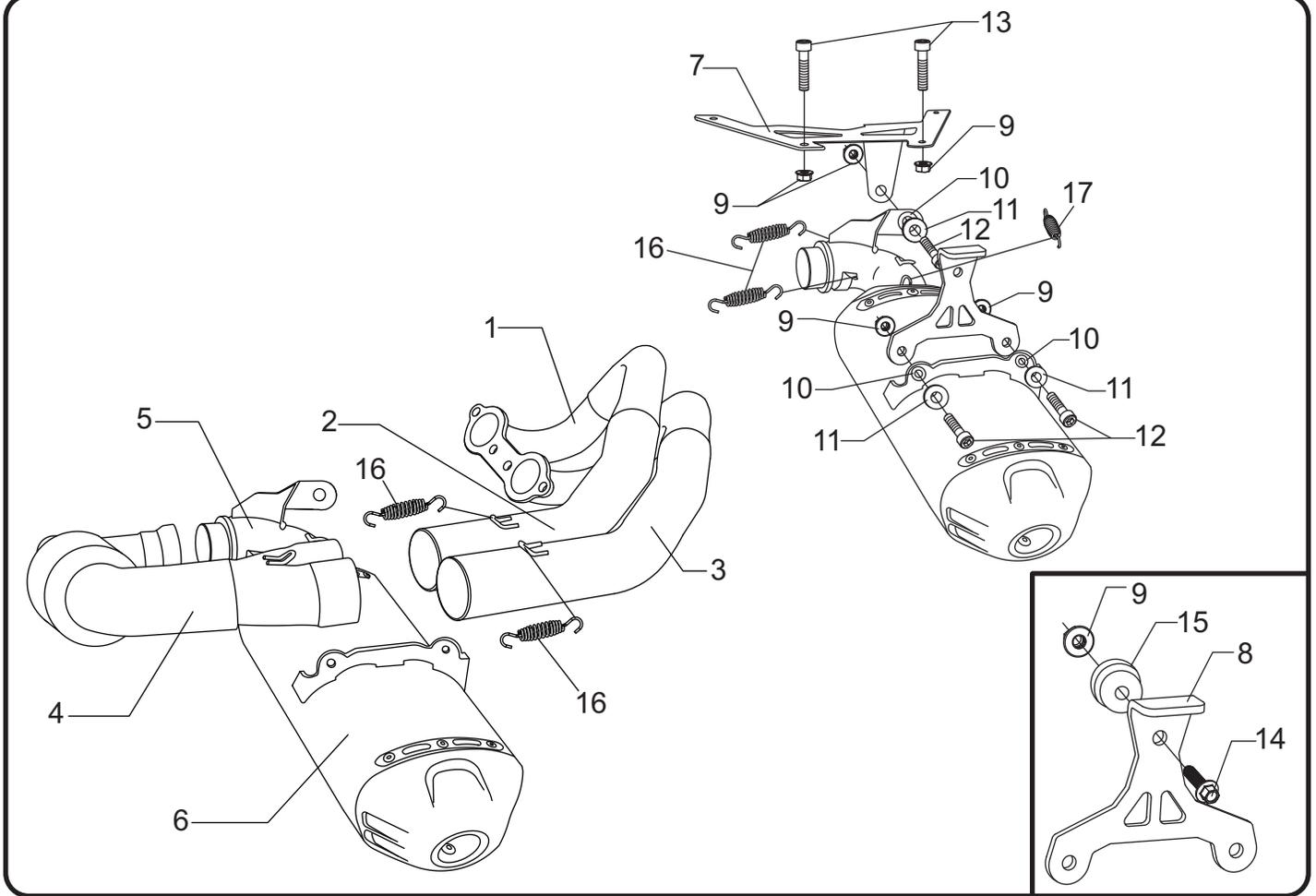


CAUTION: The muffler packing on this system MUST be replaced every 6-8 hours of use, or after each moto. Failure to follow recommended muffler re-packing interval can cause muffler damage and may void the warranty.



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

Assembly Diagram



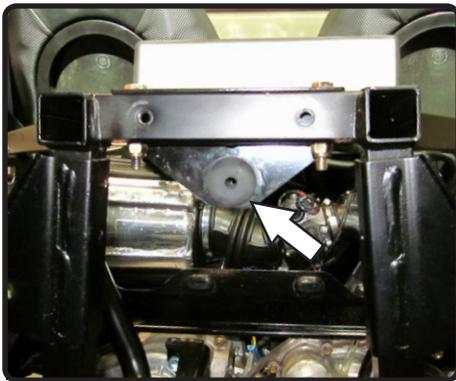
No.	Item	Description	Qty.
1	39400-101	Yoshimura Header	1
2	39400-102-1	Yoshimura Header Leg 1	1
3	39400-103-1	Yoshimura Header Leg 2	1
4	39400-140	Yoshimura Midpipe	1
5	39400-144	Yoshimura Tailpipe	1
6	39400G551-CMA	Yoshimura Muffler Assembly	1
7	39400-TPBRKT	Tailpipe Hanger Bracket	1
8	39400-BRKT	Muffler Hanger Bracket	1
9	8MMNUT	8mm Flange Nut	6
10	Z1022	Rubber Grommet	3
11	ALS-003	Aluminum Spacer	3
12	M8X30	8mm x 30mm Socket Head Cap Screw	3
13	M8X40	8mm x 40mm Socket Head Cap Screw	2
14	M8X30H	8mm x 30mm Flanged Hex Head Bolt	1
15	ALS-027	Aluminum Spacer	1
16	RACE-SPS-1	Medium Exhaust Spring	6
17	RACE-SPX-1	Short Exhaust Spring	2
**	39400-HS	Aluminum Heatshield Extension	1
**	M18X13PLG	O2 Bung Plug	1
**	347PLUG	Wash Plug	1
**	ST-200	Spring Puller	1
**	17029	Sticker Sheet	1

** Not shown on diagram.

Removal

1. Remove the rear fender and bed assembly as per Factory Service Manual.
2. Remove the stock heatshield.
3. Remove the two springs attached to the header and tailpipe.
4. Remove the four header bolts and remove the stock header.

Note: The stock exhaust manifold gasket will be re-used. Inspect and replace if necessary.
5. Loosen exhaust clamp and remove stock tailpipe.
6. Remove stock muffler and stock muffler grommet in frame.

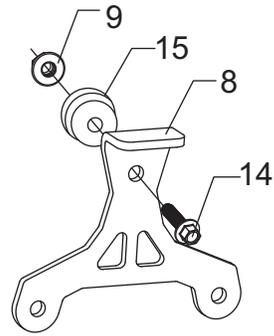


Installation

1. Install (No. 15) *ALS-027*, aluminum spacer into frame where the stock muffler grommet was removed.



2. Install (No. 8) *39400-BRKT*, muffler hanger bracket to frame using the provided (No. 14) *M8X30H*, bolt and (No. 9) *8MMNUT*, flange nut. Torque bolt to 23 Nm (2.3 kg-m, 17 ft-lb).



3. Using a drill and a $\frac{5}{16}$ " drill bit, drill out the two holes near the middle of the heatshield.

Note: For 2008-2011 models, an updated Polaris heatshield is required. (P/N: 5256351) The updated heatshield extends to the frame to prevent damage to the bed from excessive heat.



4. Place (No. 7) *39400-TPBRKT*, tailpipe hanger bracket on crossbeam aligning the mounting holes. Then place the stock heat shield over the tailpipe hanger bracket and bolt down using supplied hardware. See diagram for proper orientation and order of hardware.

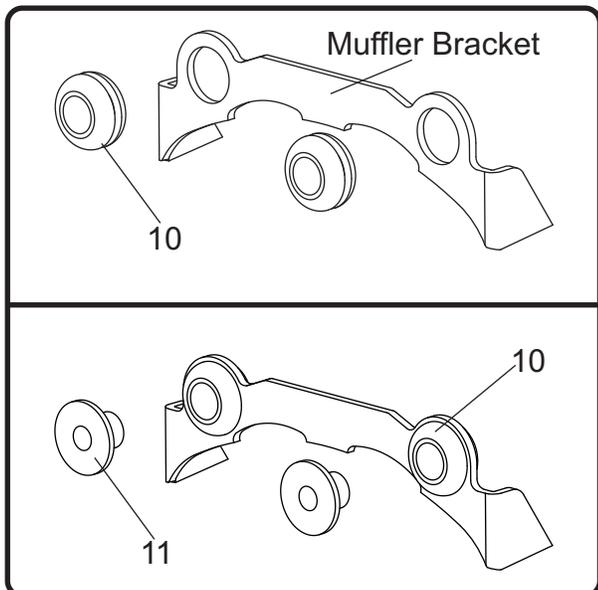
Note: Drain hole must be closer to the rear of the vehicle.



- Remove the two rear brace bolts and install supplied heatshield on top of rear support brace using the stock bolts. Check to make sure the two heatshield holes align to the rear bed mounting holes. Torque brace bolts to 23 NM (2.3 kg-m, 17 ft-lb).



- Install (No. 10) Z1022, rubber grommets into muffler bracket and tailpipe bracket. Then install (No. 11) ALS-003, aluminum spacer into (No. 10) Z1022, rubber grommet.



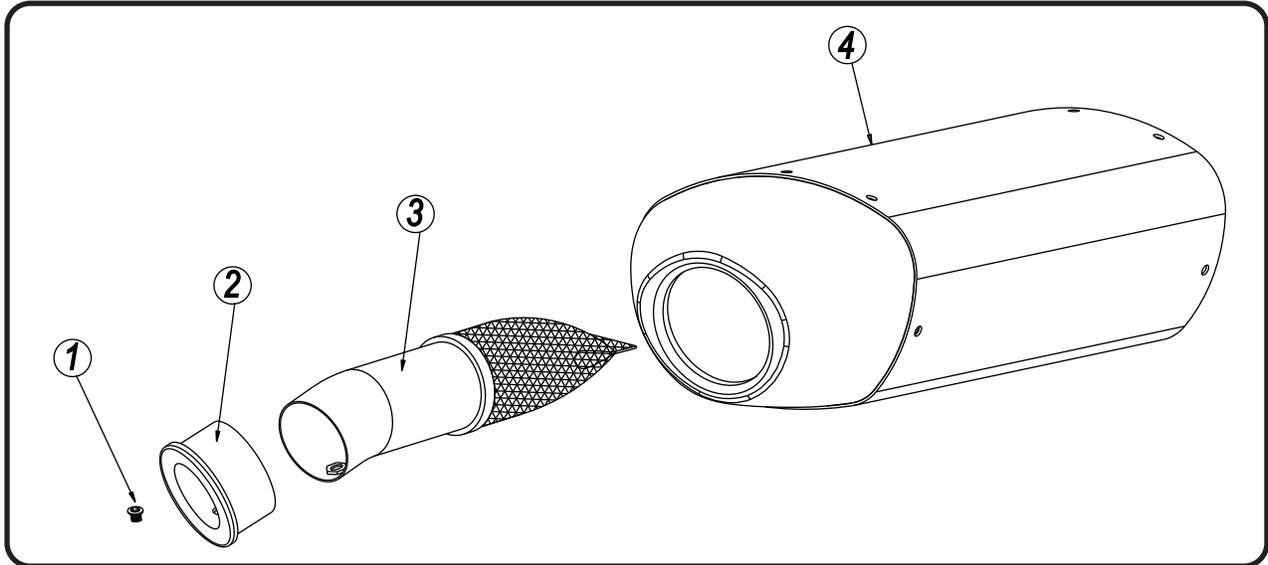
- Install (No. 1) 39400-101, header using the stock header bolts. Do not torque header bolts at this time.

Note: Inspect stock exhaust manifold gasket and replace if necessary. (P/N: 5811511)
- Install (No. 2/3) 39400-102/3-1, header legs onto (No. 1) 39400-101, header. See diagram for proper orientation.
- Install (No. 4) 39400-140, midpipe onto (No. 2/3) 39400-102/3-1, header legs.
- Install the stock exhaust ring gasket onto (No. 5) 39400-144, tailpipe inlet.
- Install muffler and tailpipe assembly from the rear of vehicle. Install (No. 5) 39400-144, tailpipe into (No. 4) 39400-140, midpipe.
- Secure (No. 6) 394000G551-CMA, muffler to (No. 8) 39400-BRKT, muffler hanger bracket using (No. 12) M8X30, bolt and (No. 9) 8MMNUT, flange nut as shown in the assembly diagram. Do not torque muffler bolts at this time.
- Secure (No. 5) 39400-144, tailpipe to (No. 7) 39400-TPBRKT, tailpipe hanger bracket using (No. 12) M8X30, bolt and (No. 9) 8MMNUT, flange nut as shown in the assembly diagram. Do not torque tailpipe bolt at this time.
- Install (No. 16) RACE-SPS-1, medium spring between tailpipe/midpipe, midpipe/header legs, and header legs/header.
- Torque muffler mount and tailpipe mount bolts to 23 Nm (2.3 kg-m, 17 ft-lb).
- Torque header bolts to factory specification.
- Re-install the rear fender and bed assembly using the reverse steps of removal.
- Before starting vehicle, check for proper clearance between new exhaust system and rear suspension (i.e. tire, control arms, brakes, rear shocks, swaybars and 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.
- 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.

Spark Arrester Cleaning Information

Caution: *Muffler can be extremely hot. Let muffler cool down before removing spark arrester.*

Note: *Read through all instructions before beginning disassembly.*



NO.	DESCRIPTION	QTY	PART #
1	6mmX18mm Button Head Cap Screw	1	M6X18BHS
2	RS8 Spark Arrestor Ring 1.625"	1	RS8-RING-1625
3	Low Volume Insert for RS8	1	TEC-SD7
4	Yoshimura Muffler Assembly	1	**

Tools Needed:

4mm Allen Key • Wire Brush • Pair of Gloves • Safety Glasses

Cleaning Steps:

1. Using a 4mm Allen key, remove the 6mm x 18mm Button Head Bolt located under the muffler exhaust tip. (See Parts Diagram for location)
2. Remove the spark arrester from the muffler.
3. Using a wire brush, remove carbon deposits from spark arrester screen. Inspect the screen for excessive wear or damage. If spark arrester is excessively worn or damaged, the spark arrester must be replaced. Cleaning and inspection should be performed at the same time as muffler repacking. Repacking is recommended every 8-10 hours or every 2 motos, whichever comes first.

CAUTION: *Gloves and Safety Glasses should be worn while cleaning spark arrester.*

4. Re-install spark arrester and 6mm x 10mm bolt into muffler assembly. Torque bolt to 1.0 kg-m (7.3 lb-ft).

NOTE: *It is highly recommended that a low strength "Loc-tite" is used on the bolt.*

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.