



YOSHIMURA

RESEARCH & DEVELOPMENT OF AMERICA, INC.

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RS-3 OVAL PERFORMANCE EXHAUST SYSTEM

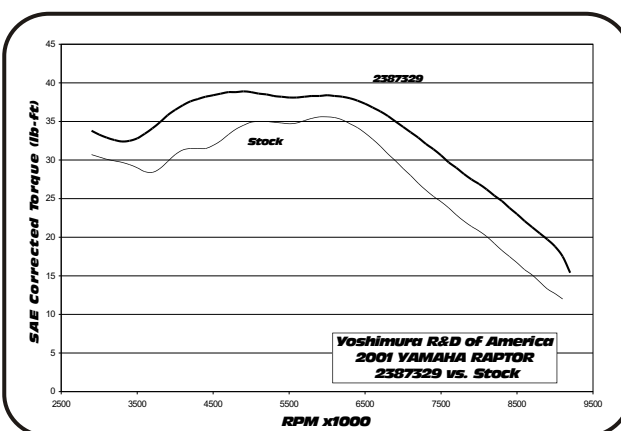
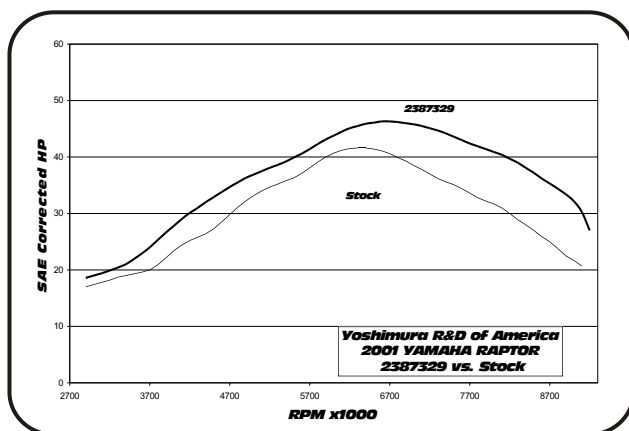
**YAMAHA
2001-05
RAPTOR**

2387500-SA

STAINLESS STEEL COMPETITION FULL SYSTEM WITH STAINLESS STEEL

2387502-SA

STAINLESS STEEL COMPETITION FULL SYSTEM WITH CARBON FIBER



Note: Dyno graphs are for comparison use only. Actual results may vary depending on operating and motorcycle condition.



THIS PRODUCT IS DESIGNED FOR USE IN CLOSED COURSE RACING AND IS NOT INTENDED FOR ANY OTHER USE.



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.

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

Note: Read through all instructions before beginning installation.

Tools Needed:

10mm and 12mm socket
4mm Allen Wrench
3/8" ratchet and extension
Torque wrench

Installation Steps:

- 1 Unbolt and remove stock slip-on muffler. (See Fig.1)
- 2 Unbolt and remove stock heat shields and front header. (See Fig.2)
- 3 Remove exhaust port gaskets and replace with new gaskets. (Not Supplied)
Yamaha Part# 3YF-14613-01-00
- 4 Install header using supplied exhaust clamp with stock nuts. (See Fig.3) Torque to 1.25 kg-m (9 lb-ft)
- 5 Install tail-pipe onto header and attach header springs. (See Fig.4).
- 6 Apply heat insulator to inside of muffler clamps then slide clamps onto muffler.
- 7 Mount muffler clamps to chassis using supplied bolts, washers and spacers. (See Fig.5&6)
NOTE: Muffler with a Carbon Fiber sleeve **MUST** use supplied 4mm spacers between the ears of the muffler clamps (See Fig. 5)
Torque bolts to 2.5 kg-m (18 lb-ft).

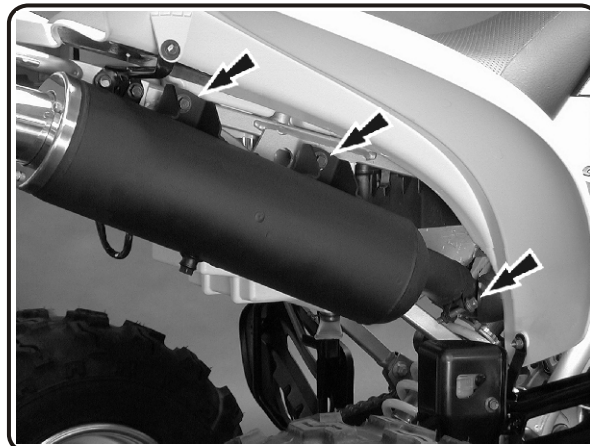


Fig. 1

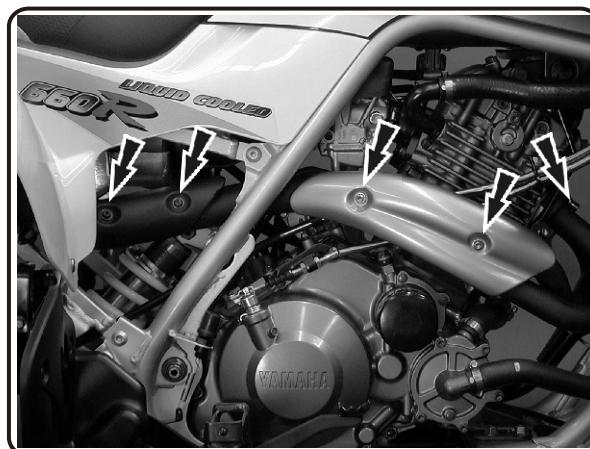


Fig. 2

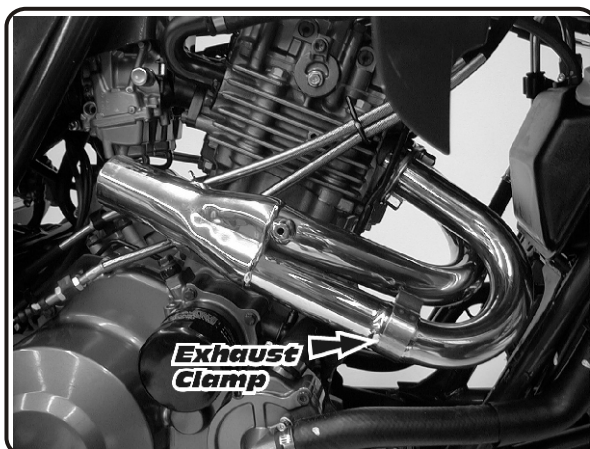


Fig. 3

- 8 Torque muffler clamp bolts to 2.5 kg-m (18 lb-ft).
- 9 Re-install heat shields onto header and tail-pipe using stock bolts and washers. (See Fig.7)
- 10 It is recommended that the 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.
- 11 Before starting engine check for proper clearance between new exhaust system and chassis body work or any moving parts. (i.e. rear brake, frame, tire, etc.) If any problem is found, please carefully follow through the installation steps again. If problem still persists, please call Yoshimura tech. dept. at (800)634-9166 / in CA (909)628-4722

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

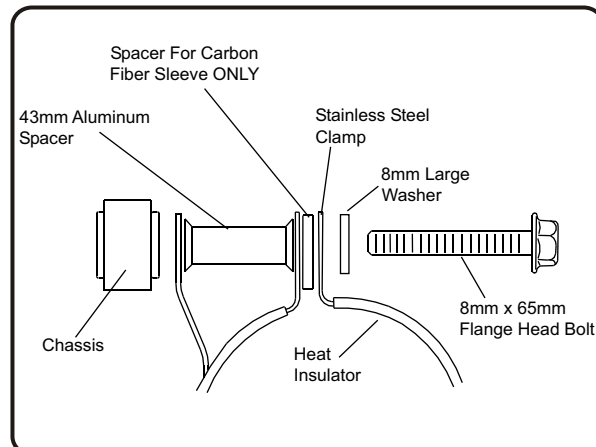


Fig.5

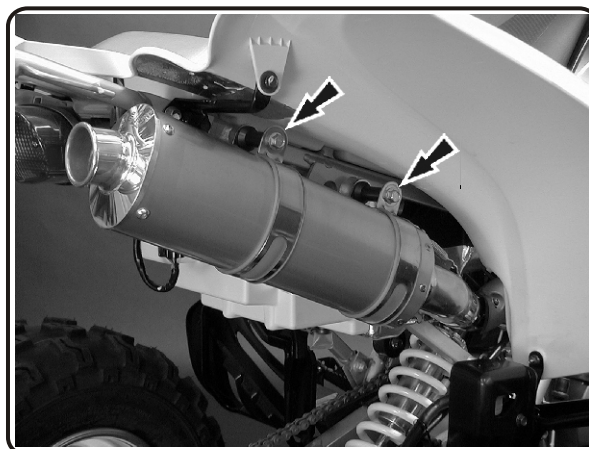


Fig. 6

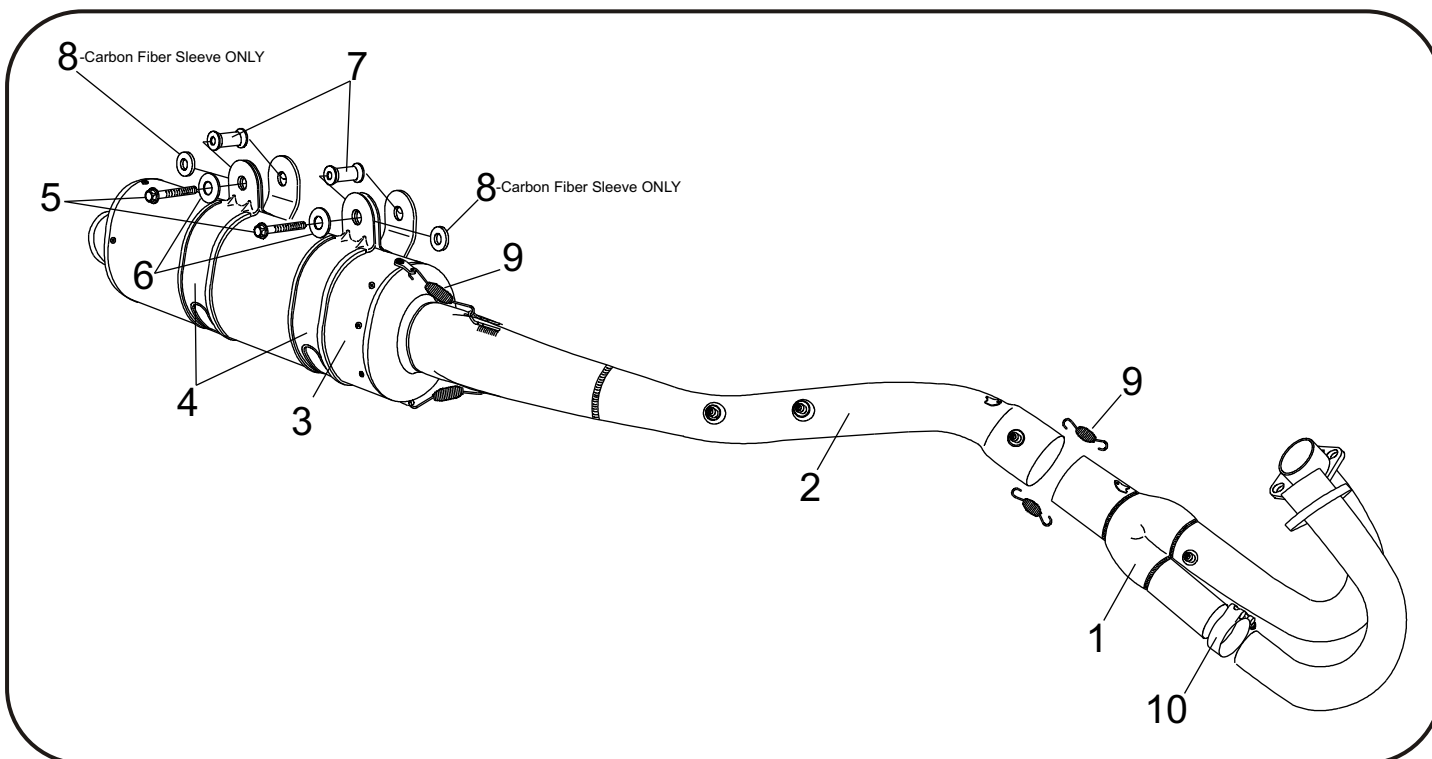


Fig. 4



Fig. 7

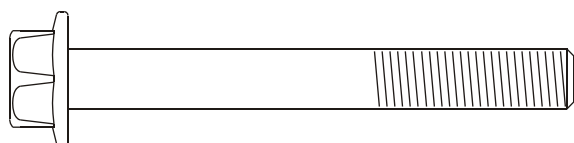
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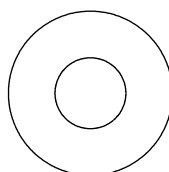
Parts Diagram

NO.	DESCRIPTION	QTY	PART #
1	Yoshimura Steel Header Stainless Steel Competition	1	2387-101
2	Yoshimura Tailpipe Stainless Steel Competition	1	2387-144
3	RS-3 YRD Oval Muffler Assembly	1	**
4	Stainless Steel Muffler Clamp	2	COS400S8ASD
5	Flange Head Bolt	2	M8X65H
6	Large Washer	2	8MMWASHERL
7	8.5 x 22 x 43 Aluminum Spacer	2	8MMFS
8	4mm Spacer (Use on 2387502-SA ONLY)	2	8X4SPCR
9	2-1/2" Exhaust Spring	4	RACE-SPS
10	Exhaust Clamp	1	220-55
**	Spring Puller Tool	1	ST-200
**	Muffler Clamp Heat Insulator	2	HT SHLD-14A
**	Yoshimura Vinyl Sticker	1	17029

Nuts and Bolts Guide (Actual Size):



8mm x 65mm
Flange Hex Bolt



8mm Large Flat Washer

Jetting Recommendations:

With no modifications to airbox lid, use stock jetting.

With modifications as shown to airbox lid, make the following changes:

Left Carb-150 (Mikuni)
Right Carb-155 (Mikuni)
Fuel Mixture 1 1/2 turns out





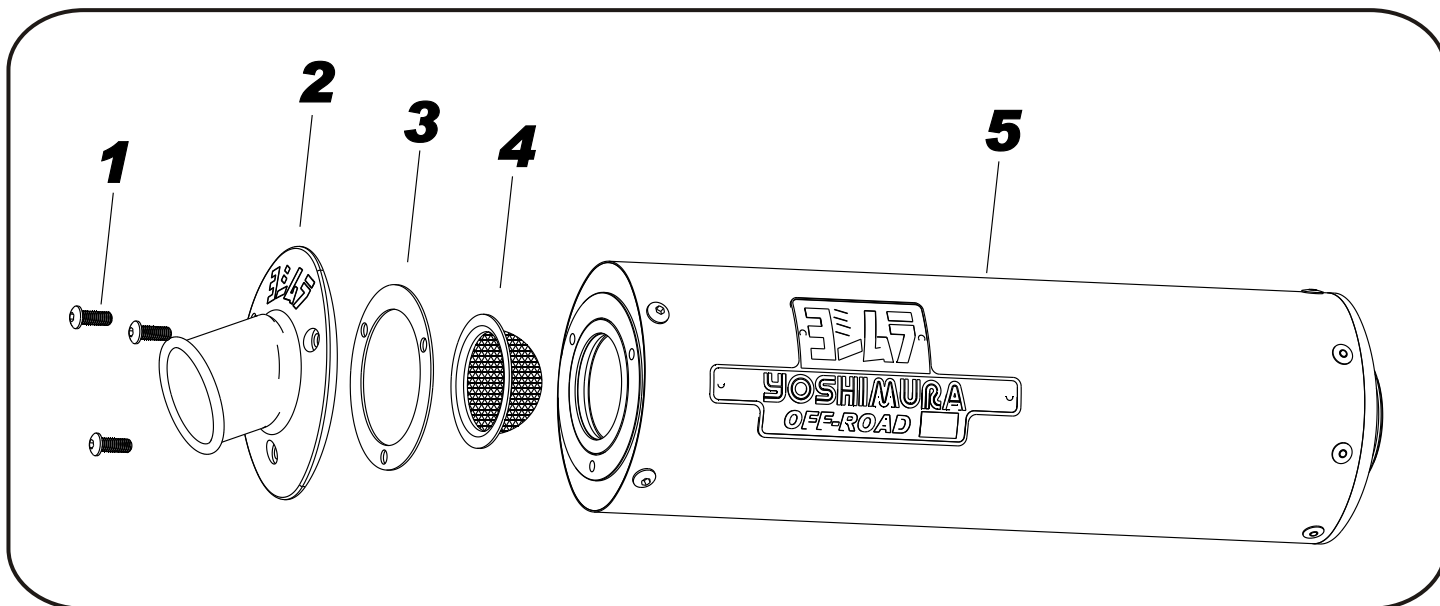
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TEC-SA Spark Arrester Cleaning Information



Parts Diagram

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
1	6 x 1.0mm x 16mm Button Head Screw	3
2	4.0" YRD End Cap, Cover	1
3	T.E.C. End Cap, Gasket	1
4	T.E.C. End Cap, Spark Arrester	1
5	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 three 6mm x 16mm Button Head Screws located in the muffler end cap. (See Parts Diagram for location)

2 Remove the end cap, gasket and spark arrester from the muffler.

3 Using a wire brush remove carbon deposits from spark arrester screen. Once clean inspect the screen for excessive wear or damage, if any is found the spark arrester must be replaced. Cleaning and inspection should be performed after every 60 hours of use.

(Caution: Gloves and Safety Glasses should be worn while cleaning spark arrester.)

4 Re-install spark arrester, gasket, end cap and 6mm x 16mm screws into muffler assembly. Torque screws to 1.0 kg-m (7.3 lb-ft)

(Note: It is recommended that a low strength "Loctite" is used on the screws.)