



# YOSHIMURA

RESEARCH&DEVELOPMENT OF AMERICA, INC.

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[www.yoshimura-rd.com](http://www.yoshimura-rd.com)

*Signature Series*

**Polaris Sportsman ACE**

**392502H500**

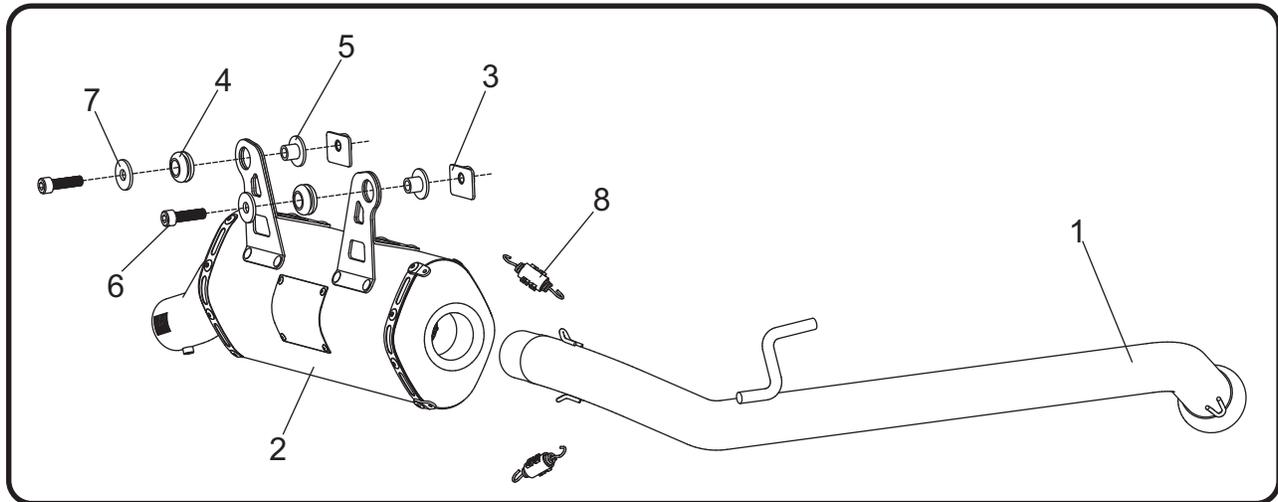
**RS9 Slip-On Exhaust System**



This product is 50-state legal and complies with Federal and State regulations. Any attempts to modify this product will render it non-compliant with Federal law and void warranty. If modified, the vehicle can no longer be used on public roads and can only be used for off-highway closed course competition. In the state of California, it is illegal to modify the emission control system, which includes the fuel injection system of any vehicle.



## Assembly Diagram



No.	Item	Description	Qty.
1	39250-152	Yoshimura Tailpipe	1
2	****	Signature Series Muffler	1
3	39250-NP	Nut Plate	2
4	Z1022	Rubber Bushing	2
5	ALS-003	Aluminum Spacer	2
6	M8X30	8mm x 30mm Socket Head Cap Screw	2
7	8MMWASHERL	8mm Washer	2
8	RACE-SPS-1	Medium Exhaust Spring	2
**	ST-200	Spring Puller Tool	1
**	347PLUG	Yoshimura Wash Plug	1
**	17029	Sticker Kit Sheet	1

\*\*\*\* Signature Series muffler replacement part number unavailable. Repair or replacement of Signature Series exhaust systems is only available directly through Yoshimura R&D of America, Inc.

## Removal

1. Remove the rear bumper as per Factory Service / Owners Manual.
2. Remove the two stock exhaust springs at muffler and tailpipe connection.
3. Carefully remove the stock muffler by sliding the two muffler hanger pins out toward the rear of vehicle.

Note<sup>1</sup>: It may be necessary to loosen or remove the lower muffler mount.

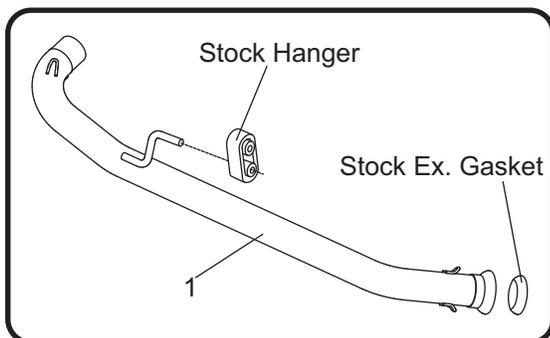
Note<sup>2</sup>: The lower muffler mount will not be used with the Yoshimura exhaust system.

4. Remove the two stock rubber muffler grommets from the frame by sliding out of the side openings.
5. Remove the two stock exhaust springs at tailpipe and header connection.
6. Carefully remove the stock tailpipe by sliding the hanger pin out of the rubber hanger toward the front of vehicle.

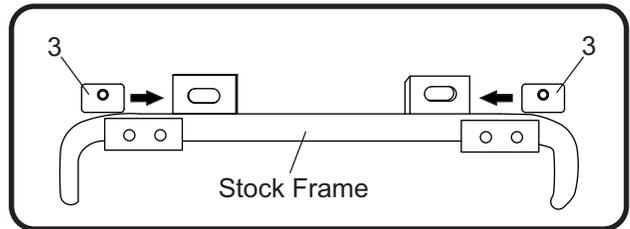
Note: The stock exhaust gasket will be re-used with the Yoshimura slip-on system at the header and tailpipe joint. Inspect and replace if necessary.

## Installation

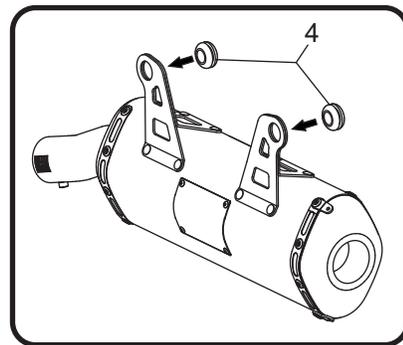
1. Install (No. 1) 39250-152, Yoshimura tailpipe by sliding tailpipe hanger pin into the stock rubber hanger.



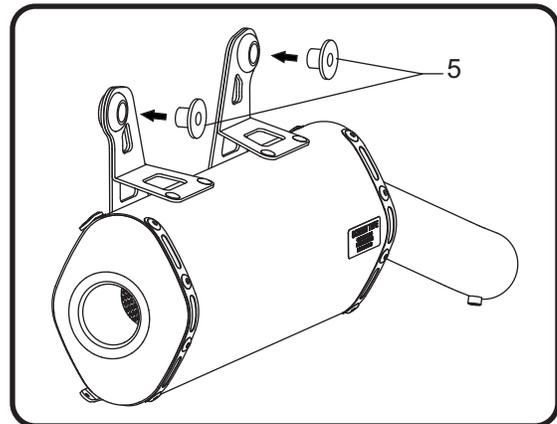
2. Align (No. 1) 39250-152, Yoshimura tailpipe inlet to the stock header outlet. Re-install the stock exhaust springs on the tailpipe to header connection.
3. Insert (No. 3) 39250-NP, nut plate into frame mount where muffler grommets were removed. See diagram for proper orientation.



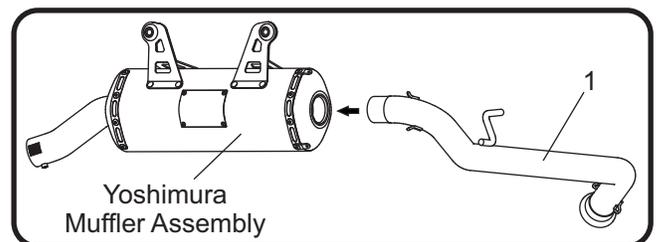
4. Install (No. 4) Z1022, rubber bushing into muffler mount bracket.



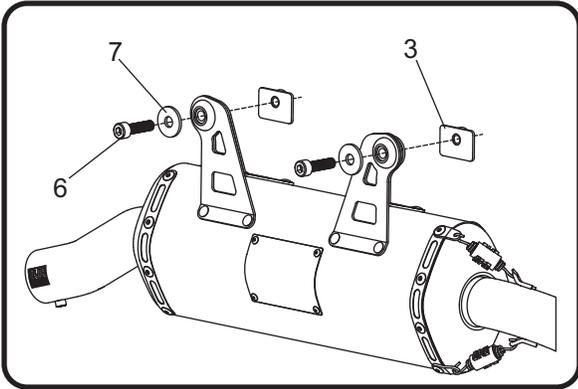
5. Install (No. 5) ALS-003, aluminum spacer into (No. 4) Z1022, rubber bushings as shown in the diagram.



6. Install Yoshimura muffler assembly by sliding onto (No. 1) 39250-152, Yoshimura tailpipe outlet.



- Secure muffler assembly to frame using the provided (No. 6) *M8X30*, bolt, (No. 7) *8MMWASHERL*, washer, (No. 3) *39250-NP*, nut plate.



- Center muffler using the bumper mounts on the frame as a guide. Torque (No. 6) *M8X30*, bolt to factory specification.

Note: Muffler must be centered to avoid potential clearance issue between stabilizer bar linkage and (No. 1) *39250-152*, Yoshimura tailpipe.

- Install (No. 8) *RACE-SPS-1*, medium exhaust spring between muffler and tailpipe connection.
- Re-install rear bumper 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 shock, 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.

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