



# YOSHIMURA

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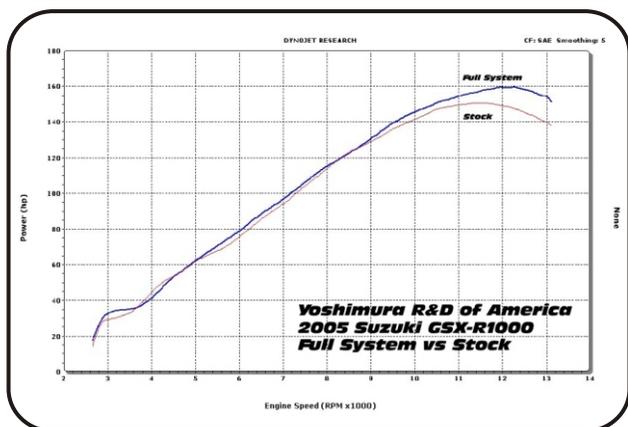
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[www.yoshimura-rd.com](http://www.yoshimura-rd.com)

## TRC TRI-OVAL PERFORMANCE EXHAUST

**SUZUKI**  
**2005-2006**  
**GSX-R1000**

<b>1116072</b>	TRC STAINLESS STEEL FULL SYSTEM WITH CARBON FIBER SLEEVE
<b>1116075</b>	TRC STAINLESS STEEL FULL SYSTEM WITH STAINLESS STEEL SLEEVE
<b>1116077</b>	TRC STAINLESS STEEL FULL SYSTEM WITH TITANIUM SLEEVE



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 HIGHWAY USE.**



NOTE: IN THE STATE OF CALIFORNIA, IT IS ILLEGAL TO MODIFY THE EMISSION CONTROL SYSTEM, WHICH INCLUDES THE FUEL INJECTION 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
- 3/8" ratchet and extension
- 12mm wrench
- 4mm Allen wrench
- 6mm Allen socket for torque wrench
- Torque wrench
- Soft Face Mallet

## Installation Steps:

- 1 Remove left and right cowlings.  
(See Fig.1 & 2 for fastener locations)
- 2 Remove lower oil cooler bracket and radiator mount bolts and tilt radiator forward slightly. (See Fig. 3)



Fig. 1

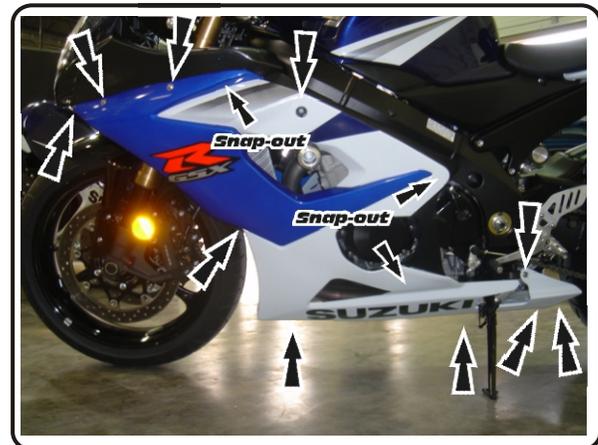


Fig. 2

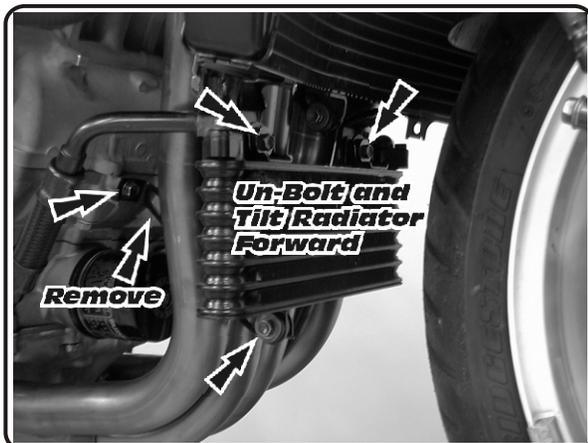


Fig. 3

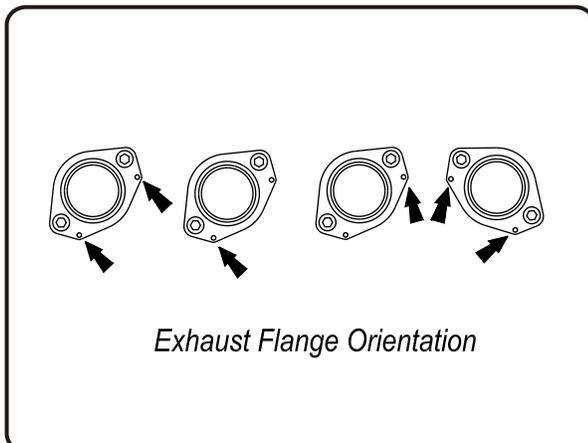


Fig. 4

- 3 Disconnect the tail-pipe exhaust valve cables from EXCVA servo located next to the rear shock. (Refer to owner's service manual for removal instructions.)
- 4 Unbolt the stock muffler and tail-pipe from the passenger foot rest mount and frame chassis mount. Loosen stock collector clamp and remove stock muffler assembly from collector outlet.
- 5 Remove stock exhaust system header and exhaust port gaskets.

**NOTE:** Bike should NOT have exhaust port gaskets installed when installing Yoshimura manifolds. If gaskets are used, there may be insufficient clearance between the header, oil cooler, and/or radiator.

- 6 Install supplied manifolds and flanges into exhaust ports using stock bolts. Torque bolts to 1.0 Kg-m (7.3 lb-ft). (Refer to Fig. 4 on Page 2 for proper flange orientation.)
- 7 Install Yoshimura header from one end of the engine to the other by slipping one tube at a time into manifolds.
- 8 Install 2-1/2" exhaust springs into flange spring holes. (Hook one end of the spring through drilled hole then pull the other end with supplied spring puller tool onto header's spring hook.) (See Fig.4)
- 9 With a soft face mallet, tap on header to fully seat tubes into manifolds.
- 10 Install Yoshimura tail-pipe w/muffler onto header and install 2 1/2" springs between header and tailpipe.
- 11 Bolt tail-pipe chassis mount bracket to inside of chassis mount with stock bolt and washer and supplied nut and washer. (See Fig. 5) Torque chassis mount bolt to 2.5 kg-m (18 lb-ft).
- 12 Apply heat insulator to inside of muffler clamp and slide clamp onto muffler. (note direction of clamp in Fig. 6)
- 13 Mount clamp to the inside of stock bracket using stock bolt, washer and nut. (see Fig. 6) Torque bolt to 2.5 kg-m (18 lb-ft).
- 14 It is recommended that the entire 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.
- 15 Re-install lower oil cooler bracket and radiator mount bolt.



Fig. 5

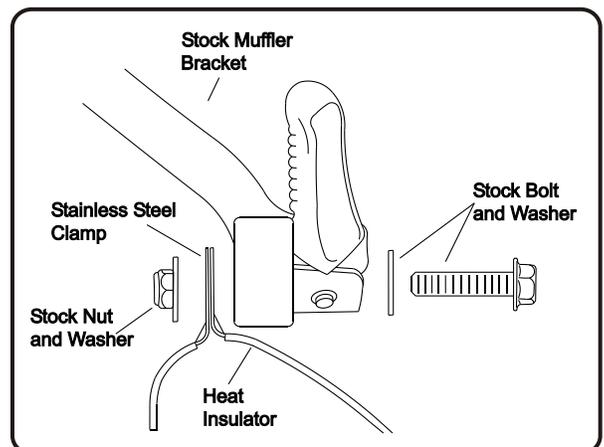


Fig. 6

- 16 Before starting motorcycle, check for proper clearance between new exhaust system and motorcycle. (i.e. radiator, oil pan, swing-arm, 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.
- 17 Reinstall cowlings.
- 18 Check for proper clearances between new exhaust system and cowlings before starting the motorcycle.

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

**Necessary Wiring Changes:**

- 1 It is necessary to properly disable the Suzuki SET (Suzuki Exhaust Tuning) system by following the steps listed below. Without properly disabling the SET system the engine will run in a power limited fail-safe mode.
- 2 Remove rider seat and metal brace located over the ECU by removing the four bolts (See Fig. 1).
- 3 With ignition in OFF position, disconnect the grey wire harness plug from the ECU (See Fig. 2).
- 4 Remove the orange cap on the grey wire harness plug by pressing the small orange tabs apart and pulling the orange cap off (See Fig. 3).

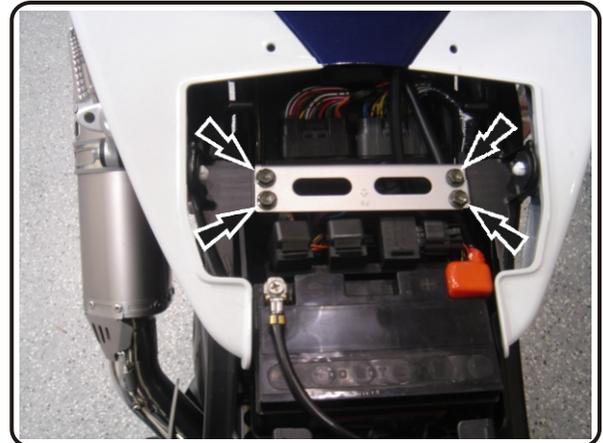


Fig. 1

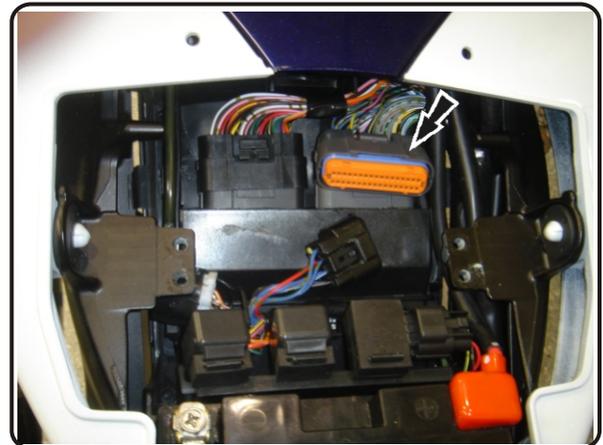


Fig. 2

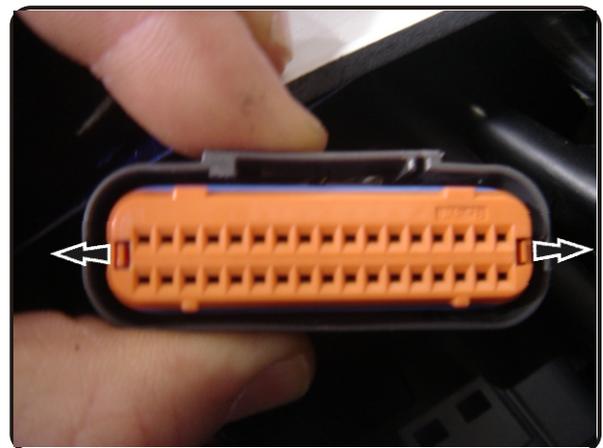


Fig. 3

5 Pull out the black wire with brown stripe (See Fig. 4). When you hold the grey plug with the locking tab facing up, the black wire with brown stripe is in the top row in the 8th slot from the left (See Fig. 5). Insert a very small flat head screwdriver into the hole that the arrow is pointing to in Fig. 5. Gently pry up with the screwdriver to unlock the wire and pull on the black wire with brown stripe from the rear of the plug to remove.

6 Tape and secure disconnected wire.

7 Reinstall orange cap onto grey wiring harness plug and reconnect plug to ECU.

8 Reinstall the metal brace and rider seat.



Fig. 4

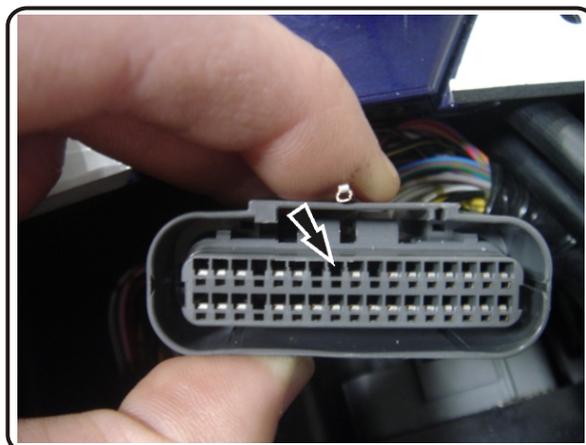
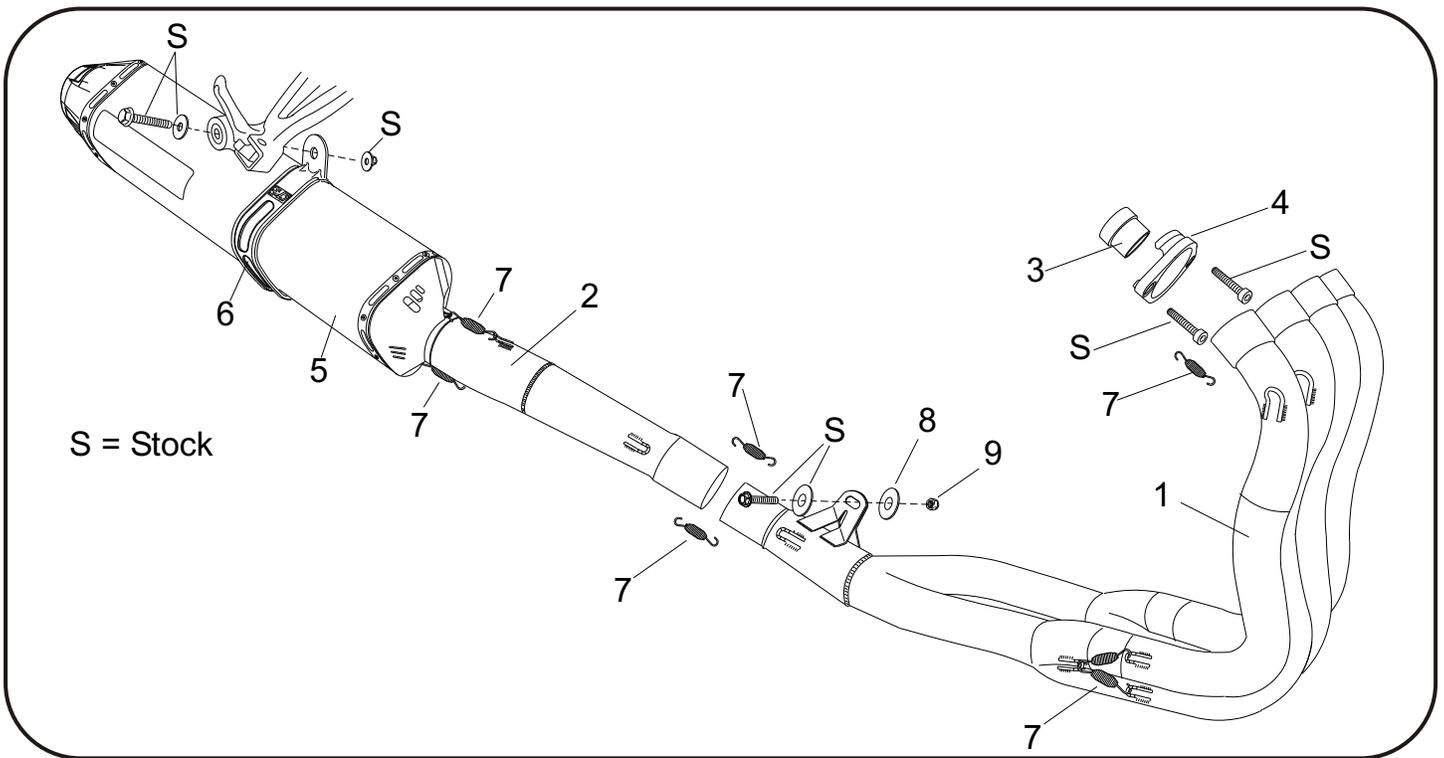


Fig. 5

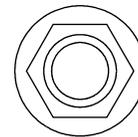
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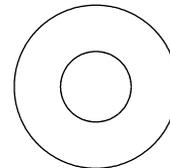
Parts Diagram

NO.	DESCRIPTION	QTY	PART #
1	Yoshimura Header Stainless Steel Race Only	1	1116-404F
2	Yoshimura Tailpipe Stainless Steel Race Only	1	1116-419
3	Stainless Steel Exhaust Manifold	4	R795SDM
4	Stainless Steel Exhaust Flange	4	YZ117SDR-01
5	TRC Muffler Assembly	1	**
6	TRC Stainless Steel Muffler Clamp Stainless Steel or Titanium Sleeve use Carbon Fiber Sleeve use	1	CTS081X CTS081
7	2-1/2" Exhaust Spring	14	RACE-SPS-1
8	Large Washer	1	8MMWASHERL
9	Flanged Nut	1	8MMNUT
**	Muffler Clamp Heat Insulator	1	HT SHLDTRS
**	Spring Puller Tool	1	ST-200
**	Yoshimura Vinyl Sticker	2	17028-BLK

**Nuts and Bolts Guide (Actual Size):**



8mm Flange Nut



8mm Large Flat Washer