YOSHIMURA
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YOSHIMURA PERFORMANCE EXHAUST SYSTEM

2006-2007 SUZUKI GSX-R600

1104187	*R55 TITANIUM FULL SYSTEM WITH TITANIUM SLEEVE*

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 INCLUDING THE FUEL INJECTION SYSTEM 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.

Tools Needed:

12mm socket
3/8" ratchet and extension
12mm wrench
4mm and 6mm allen wrench
Torque wrench
Small flat head screwdriver

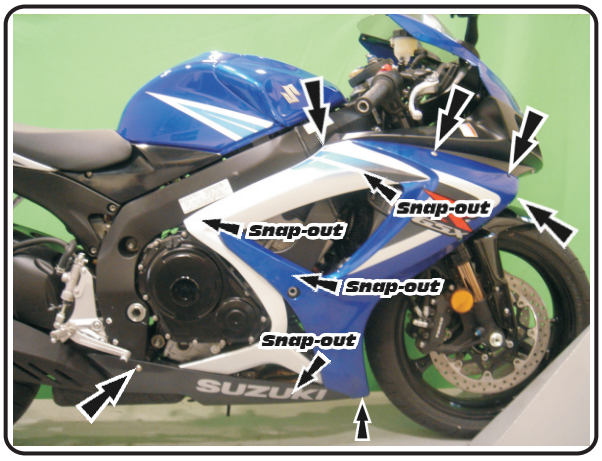


Fig. 1

Installation Steps:

1 *Remove left and right side fairings (see Fig. 1 and Fig. 2).*

2 *Remove stock muffler (see Fig. 3 and Fig. 4).*

3 *Remove stock rear muffler bracket.*

4 *Remove lower radiator support bracket and swing radiator forward to ease removal of stock header.*

5 *Remove stock header and exhaust port gaskets.*

NOTE: This Yoshimura full system is designed to be installed without exhaust port gaskets. If exhaust port gaskets are used, there may be insufficient clearance between the header and radiator.

NOTE: Insert supplied 12mm bolt and crush washer into 02 sensor bung on Yoshimura header.

6 *Install Yoshimura manifolds and flanges into exhaust ports using stock header nuts (see Fig. 5 for flange orientation).*

7 *Torque header nuts to 1.0 kgf-m (7.3 lb-ft).*

8 *Install Yoshimura header from one end of the engine to the other by slipping one tube at a time onto manifolds.*

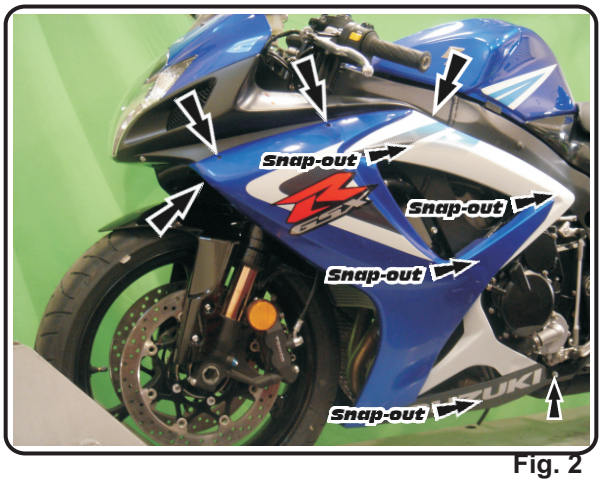


Fig. 2

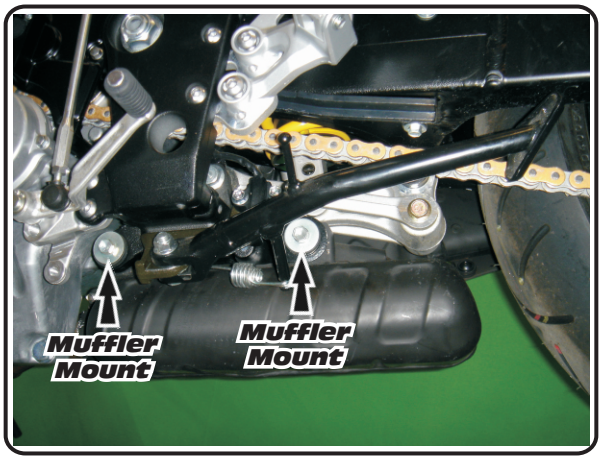


Fig. 3

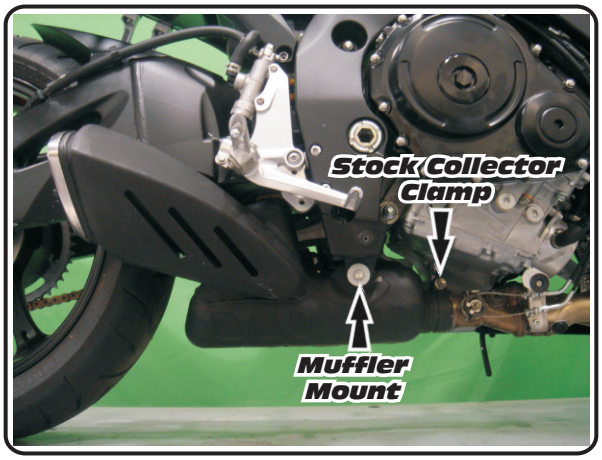


Fig. 4

9 *Connect header to flanges using the supplied springs (see Fig. 5 for spring locations).*

10 *Slide Yoshimura oval muffler onto Yoshimura header outlet and connect together using the supplied small exhaust springs (see Parts Diagram on page 6).*

11 *Bolt oval muffler to stock muffler mount location using stock muffler mount bolts, supplied large washer, supplied nuts, rubber grommet, small aluminum insert, and springs (see Fig. 6 and Parts Diagram on page 6).*

12 *Unbolt stock right rearset from stock right adjustable mounting plate.*

13 *Unhook spring from rear brake light switch.*

14 *Sandwich Yoshimura R55 aluminum muffler bracket between the stock right rearset and stock right adjustable rearset mounting plate using stock bolts (see Fig.7).*

15 *Torque stock right rearset bolts to 2.8 kgf-m (20 lb-ft).*

16 *Reinstall rear brake light switch spring.*

17 *Slide Yoshimura R55 muffler onto Yoshimura tailpipe. Connect R55 muffler to tailpipe using the supplied exhaust springs (see Parts Diagram on page 6).*

18 *Mount R55 muffler to R55 mounting bracket using the supplied bolt, small washer, and spacer nut (see Parts Diagram on page 6).*

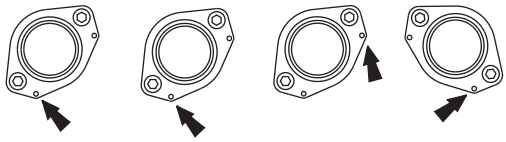
19 *Torque muffler mount bolt to 2.3 kgf-m (16.5 lb-ft).*

20 *Reinstall lower radiator bracket and the left and right side fairings.*

21 *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.*

22 *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.



Exhaust Flange Orientation

Fig. 5

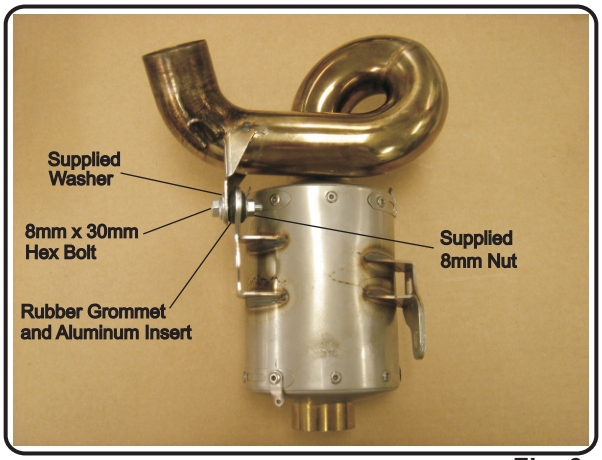


Fig. 6

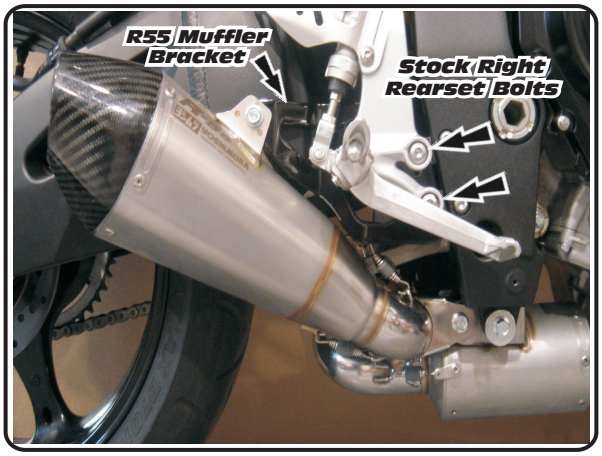


Fig. 7

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 black wire harness plug from the ECU (see Fig. 2).*

4 *Remove the orange cap by pressing the small orange tabs apart and pulling the orange cap off (see Fig. 3).*

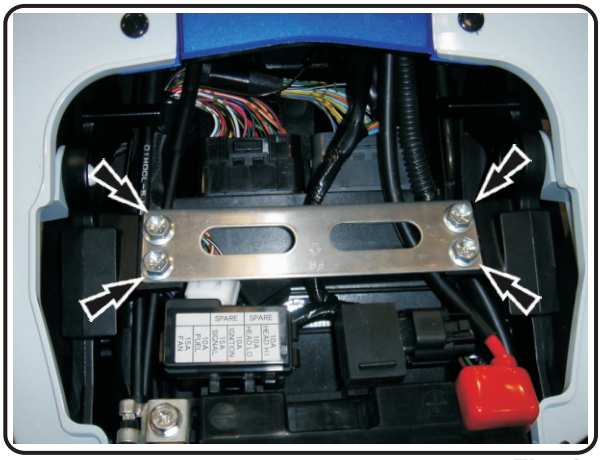


Fig. 1

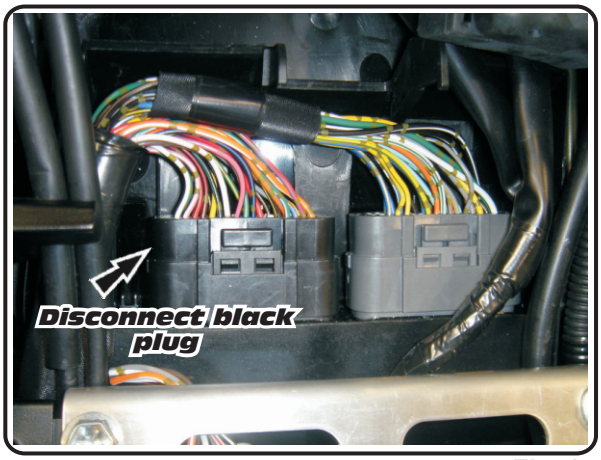


Fig. 2

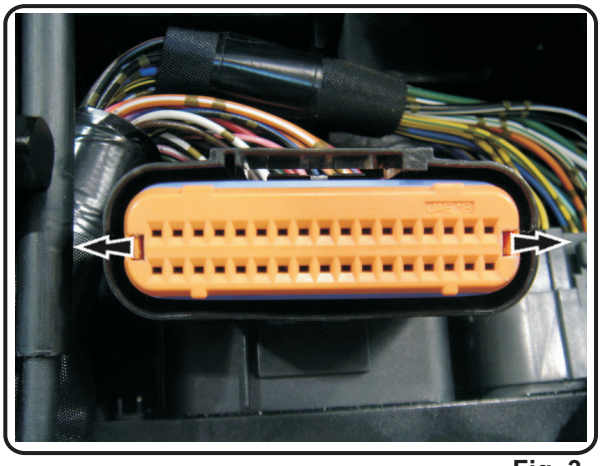


Fig. 3

5 *Pull out the black wire with brown stripe (see Fig. 4). When you hold the black plug with the locking tab facing down, the black wire with brown stripe is in the top row in the 5th 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 down with the screwdriver to unlock the wire and pull on the black wire with brown stripe from the rear of the plug to remove.*

NOTE: If you don't have a small flat head screwdriver use a regular paper clip to make one (see Fig. 6).

6 *Completely seal off the disconnected wire to prevent possible electrical problems. Dip disconnected wire in liquid electrical tape. After liquid electrical tape is dry, slide a 1.5" piece of heat shrink tubing 1" over the end of the disconnected wire and fold the remaining 0.5" of heat shrink tubing to create a water tight seal. Slide a slightly larger piece of heat shrink tubing over the folded section of heat shrink tubing. Using a heat gun, shrink the heat shrink tubing to create a water tight seal. Secure disconnected wire to harness using a zip tie.*

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

8 *Reinstall the metal brace and rider seat.*

9 *Completely remove the exhaust valve cables from the EXCVA servo (refer to the factory service manual for removal instructions).*

NOTE: Do not unplug EXCVA servo, as it may cause the bike to run in "safe" mode.

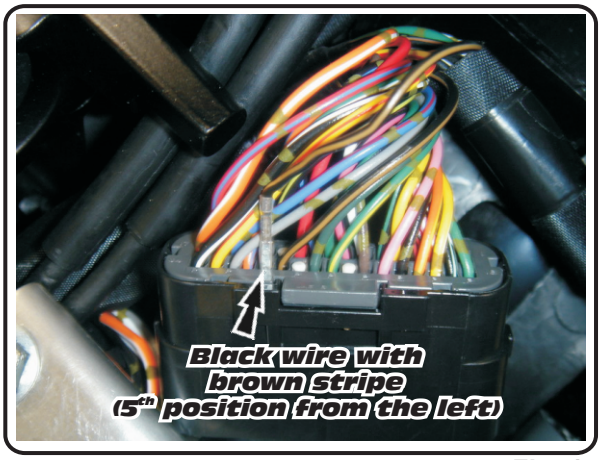


Fig. 4

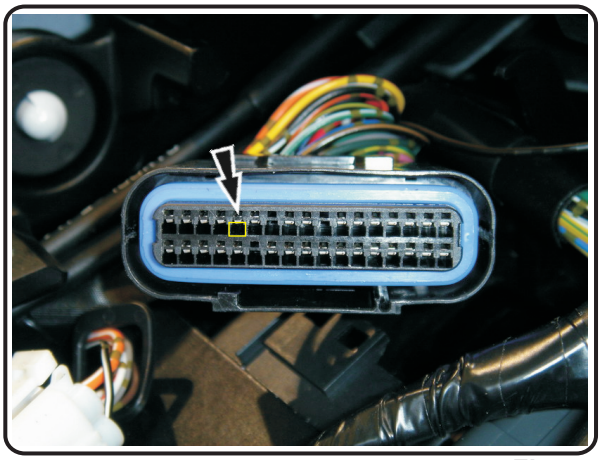


Fig. 5

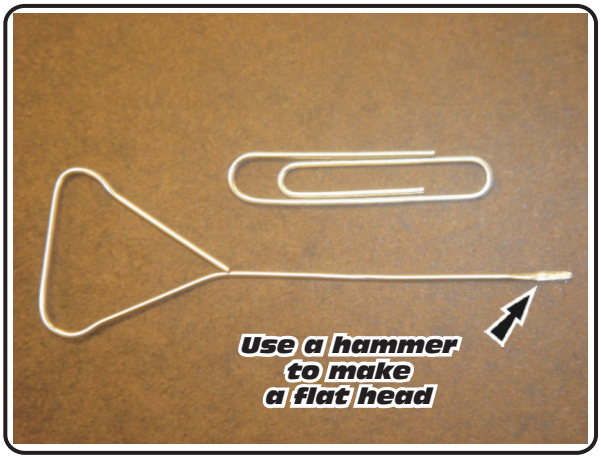


Fig. 6

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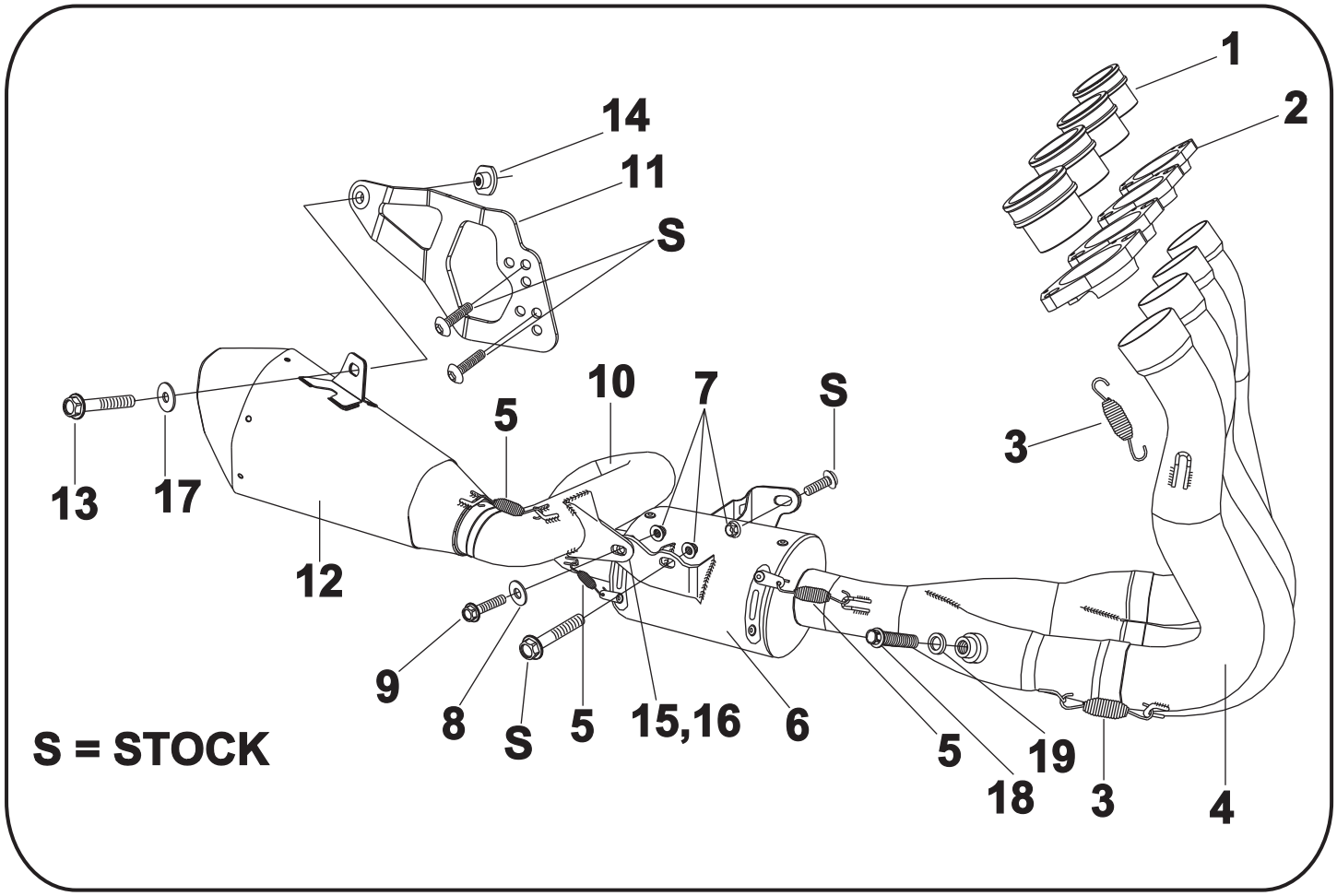

Parts Diagram

NO.	DESCRIPTION	QTY	PART #
1	Yoshimura Stainless Steel Manifold	4	YZ616SDM
2	Yoshimura Aluminum Flange	4	YZ616SDR-01
3	Medium Race Spring	8	RACE-SPS-1
4	Yoshimura Header	1	1104-704A
5	Small Race Spring	6	RACE-SPX-1
6	Yoshimura Oval Muffler	1	1104187-CMA
7	Flanged 8mm Nut	3	8MMNUT
8	Large Washer	1	8MMWASHERL
9	8mm x 30mm Hex Head Bolt	1	M8X30H
10	Yoshimura Tailpipe	1	1104-739
11	Yoshimura Aluminum Muffler Mount Bracket	1	1104MBR55-B
12	Yoshimura R55 Muffler with Stainless Steel Sleeve	1	1104187-RMA
13	8mm x 20mm Button Head Bolt	1	M8X20BHS
14	Stainless Steel Threaded Spacer Nut	1	SPCR-NUT-B
15	Rubber Grommet	2	Z1022
16	Aluminum Insert For Rubber Grommet	1	8X127SP
17	Small Washer	1	8MMWASHER-SS
18	12mmX8mm Flanged Hex Head Bolt	1	M12X8H
19	12mm Crush Washer	1	12MMCW
**	Spring Puller Tool	1	ST-200
**	Yoshimura Vinyl Sticker	1	17029