

SUZUKI GSX-R1000/R L7-M2 RACING TITANIUM FULL SYSTEM R-11Sq

Be sure to read the instruction carefully before starting the work. It is necessary to follow the contents to install Yoshimura product.

1. Product Information :

Description	SUZUKI GSX-R1000/R L7-M2 Racing Titanium		Part Number	Stainless Sleeve (TS)	: 150-50A-A15G2	
	Full System R-11Sq				Metal Magic Sleeve (TM)	: 150-50A-A12G2
Cyclone Type	S50AT1QC1			Titanium Blue Sleeve (TTB)	: 150-50A-A16G2	
Noise Decibels	JSB	Without dB Killer	: 110dB / 6,000rpm	Titanium Sleeve (TT)	: 150-50A-A18G2	
		With dB killer SD#136	: 108dB / 6,000rpm	Main Materials	Titanium (exhaust pipes), Stainless Steel (Silencer Assy)	
	ST	Without dB Killer	: 106dB / 6,000rpm	Weight	(TS) & (TM)	: 5.1kg
		With dB killer SD#136	: 103dB / 6,000rpm	[STD weight : 10.8kg]	(TT) & (TTB)	: 4.9kg

2. Applicable Model :

Model	SUZUKI GSX-R1000/R L7-M2
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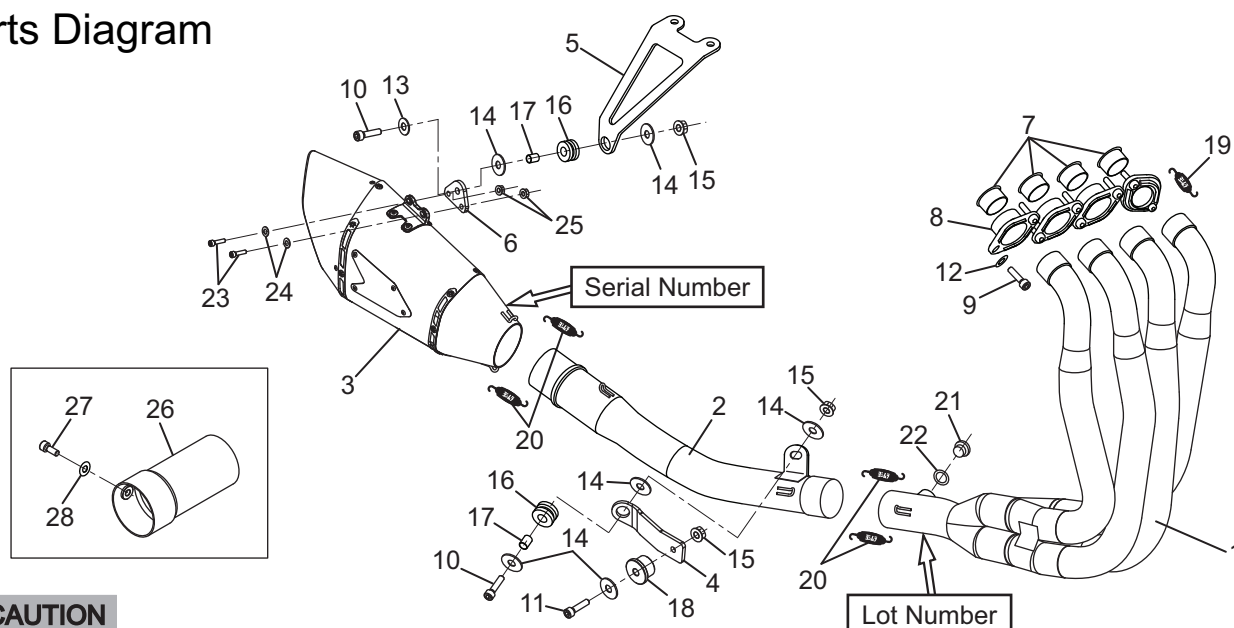
3. Optional Part :

Description	Part No.
Optional dB Killer SD#98	138-138-4398

4. Contents:

No.	Descriptions	Part No.	Q'ty	No.	Descriptions	Part No.	Q'ty
1	Header Assy	151-50A-A100	1	14	Washer M8x26	812-108-2600	6
2	Tailpipe	155-50A-A100	1	15	Flange Nut M8	823-008-1250	3
3	Silencer Assy, Stainless Sleeve	156-50A-A15G1	1	16	Grommet Rubber	553-565-0000	2
	Silencer Assy, Metal Magic Sleeve	156-50A-A12G1		17	Grommet Spacer	850-208-1212	2
	Silencer Assy, Titanium Sleeve	156-50A-A18G1		18	Stepped Spacer 8-30-18	850-008-30A2	1
	Silencer Assy, Titanium Blue Sleeve	156-50A-A16G1		19	Exhaust Spring (Floating)	118-001-0000	8
4	Tailpipe Bracket	161-50A-0220	1	20	Exhaust Spring (Medium Floating)	118-001-2000	4
5	Silencer Bracket #1	161-50A-0200	1	21	Plug	862-118-1500	1
6	Silencer Bracket #2	161-50A-0210	1	22	Washer (Copper)	812-318-0000	1
7	Connector Pipe	142-045-3310	4	23	Button Bolt M6x20	803-206-4020	2
8	Flange	117-042-0100	4	24	Washer M6x13	812-206-1310	2
9	Drilled Cap Bolt M8x25	800-208-5S25	8	25	Flange Nut M6	823-006-1000	2
10	Cap Bolt M8x30	800-208-5030	2	26	SD#136	138-138-45D6	1
11	Cap Bolt M8x35	800-208-5035	1	27	Cap Bolt M6x8 Thread Lock	800-806-4008	1
12	Conical Spring Washer M8	811-108-0000	8	28	Conical Spring Washer M6	811-106-0000	1
13	Washer M8x20	812-108-2000	1				

Parts Diagram



CAUTION

It is required to install this racing exhaust system with Racing ECU Set Engine Management Professional Ver.2.0/Ver.2.1 (P/N: 490-50A-0000 / 490-50A-3000) and other required parts together. In case this exhaust system is installed with stock ECU, Exhaust Control Valve Canceler (P/N: 194-519-0011) and O2 Sensor Extension Cable (P/N: 406-50A-0000) are required additionally. If neglected, it may cause damage on Exhaust Valve Control Valve Actuator or other components. Refer the installation instruction of Racing ECU Set for other required parts.

CAUTION Before beginning installation, let motorcycle cool down.

CAUTION Be sure not to damage each part during installation.

CAUTION Torque specification must be followed. If neglected, it may cause bolt and nut to fall off and damage to Yoshimura product and motorcycle.

CAUTION Metal Magic sleeve is coated with heat-resistant paint. Handle with care not to be hit or scratched by surroundings as the coating may come off. When cleaning silencer, use soft cloth with dish soap but do not use metal polish or chemical cleaner.

CAUTION Titanium Blue sleeve is colored by anodizing. Handle with care as the color may change. When cleaning silencer, use soft cloth with dish soap but do not use metal polish or chemical cleaner.

5. Installation steps:

- 1) Refer the installation instruction of Racing ECU Set, install ECU and other necessary parts.
Racing ECU Set (Engine Management Professional Ver.2.0) P/N: 490-50A-0000
Racing ECU Set (Engine Management Professional Ver.2.1) P/N: 490-50A-3000

CAUTION It is required to install this racing exhaust system with Racing ECU Set Engine Management Professional Ver.2.0/Ver.2.1 (P/N: 490-50A-0000 / 490-50A-3000) and other required parts together. In case this exhaust system is installed with stock ECU, Exhaust Control Valve Canceler (P/N: 194-519-0011) and O2 Sensor Extension Cable (P/N: 406-50A-0000) are required additionally. If neglected, it may cause damage on Exhaust Valve Control Valve Actuator or other components. Refer the installation instruction of Racing ECU Set for other required parts.

REFERENCE It may cause exhaust gas with intense heat if the motorcycle is run with TC level too high. Refer the installation instruction of Racing ECU Set, and make proper Traction Control level setting.

- 2) Be careful not to damage the frame and swing arm, remove stock silencer assy.

- 3) Remove stock bolts on radiator and oil cooler and move them to forward. Then, remove stock header assy.

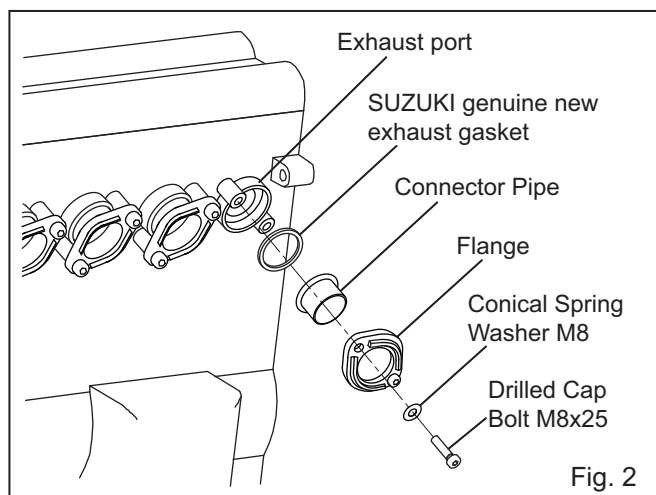
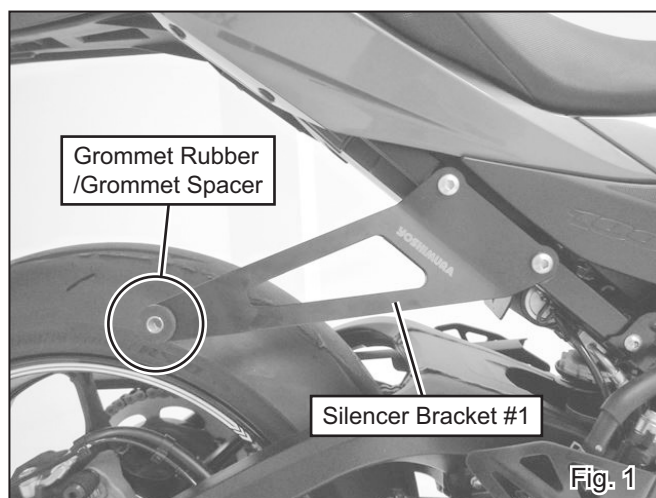
CAUTION Be careful not to damage radiator or other components when removing stock header assy.

- 4) Remove passenger foot peg bracket from both sides. Install Grommet Rubber and Grommet Spacer to Silencer Bracket #1. Then, mount Silencer Bracket #1 with stock bolts (See Fig. 1). Tighten and torque bolts.

Tightening Torque Stock bolt : 23Nm

CAUTION Torque specification must be followed.

- 5) Insert SUZUKI genuine new exhaust gasket between exhaust port and Connector Pipe. Then, fix them with Flange and 2 of each Drilled Cap Bolt M8x25 and Conical Spring Washer M8 (See Fig. 2) Follow the same procedure on all 4 exhaust ports. Tighten bolts by hand only at this stage.



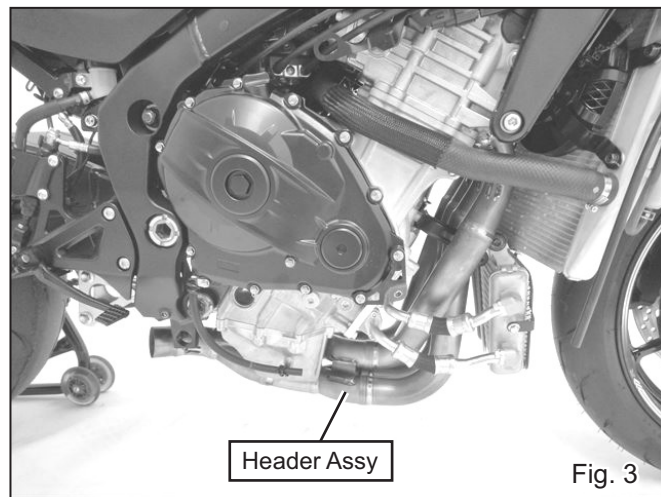
- 6) Insert Header Assy deep into Connector Pipes installed at Step 12). Tighten all 8 of Drilled Cap Bolt M8x25 on exhaust ports little by little to equalize pressure. Then, install 8 of Exhaust Spring (Floating) on each bolts and spring hooks (See Fig. 3 & 4).

Tightening Torque Drilled Cap Bolt M8x25 : 15Nm

CAUTION Torque specification must be followed.

CAUTION Be careful not to damage radiator core or other components when installing Header Assy.

CAUTION Make sure that exhaust spring is hooked to installing tool firmly. If neglected, it may cause injury.



- 7) Install any one of A/F sensor (M18), or Plug into sensor boss on Header Assy (See Fig. 5 & 6).

A. Not using any of sensors.

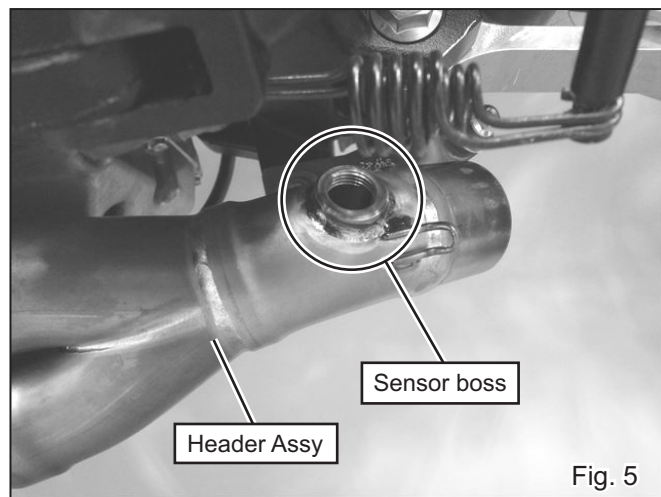
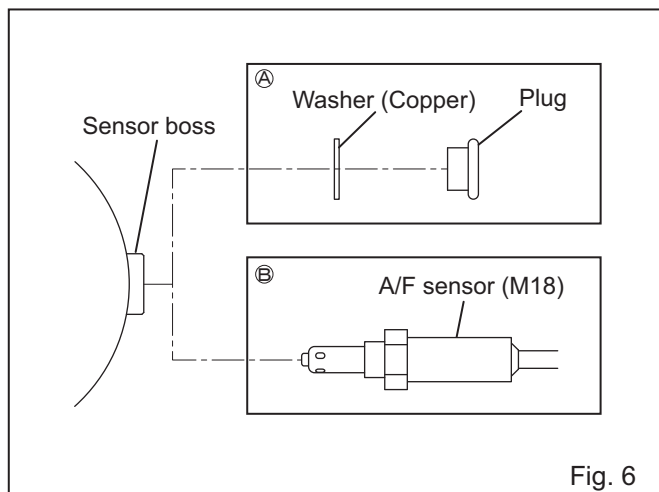
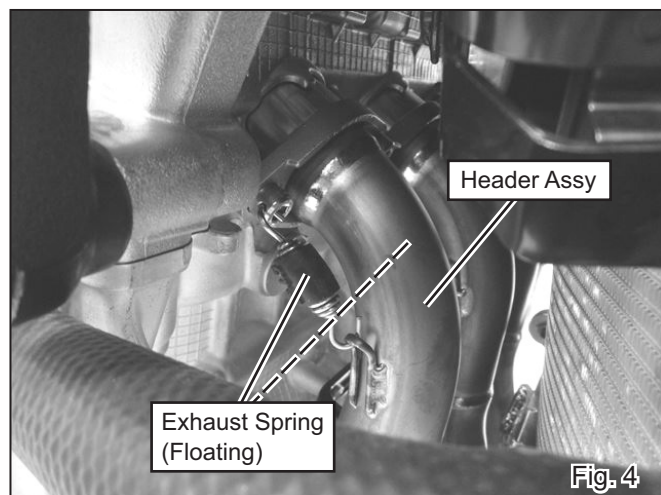
Install Washer (Copper) and Plug into sensor boss.

B. Use A/F sensor (M18).

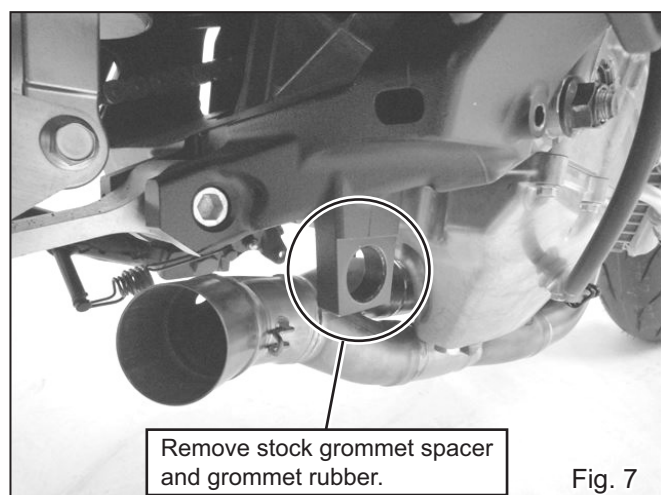
Install A/F sensor (M18) to sensor boss on Header Assy

Tightening Torque Stock O2 sensor (M12) : 25Nm

CAUTION Torque specification must be followed.



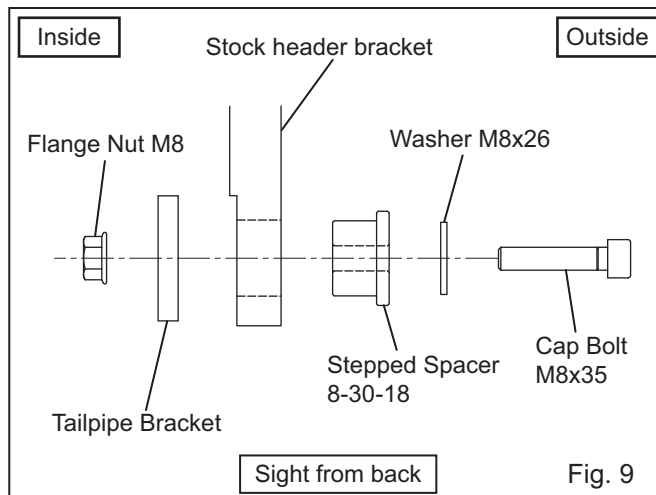
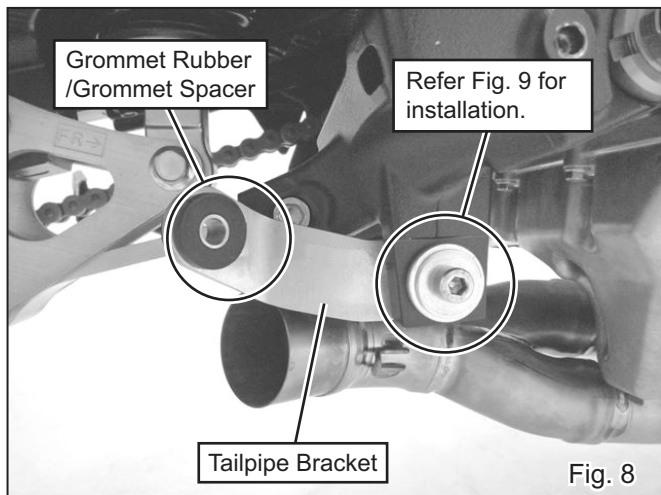
- 8) Remove stock grommet spacer and grommet rubber from stock header bracket (See Fig. 7).



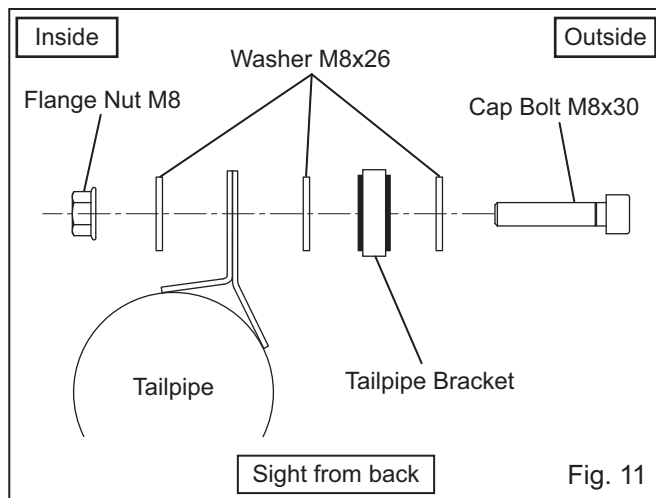
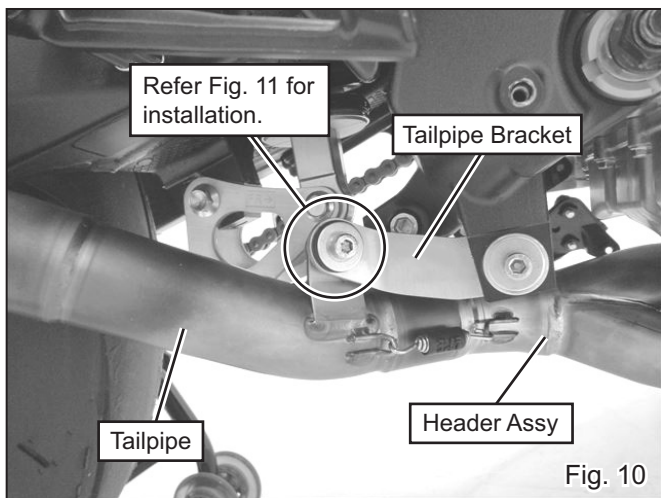
- 9) Install Grommet Rubber and Grommet Spacer into Tailpipe Bracket. Then, mount Tailpipe Bracket to stock header bracket with Cap Bolt M8x35, Washer M8x26, Stepped Spacer 8-30-18 and Flange Nut M8 (See Fig. 8 & 9). Tighten and torque bolt.

Tightening Torque Cap Bolt M8x35 : 23Nm

CAUTION Torque specification must be followed.

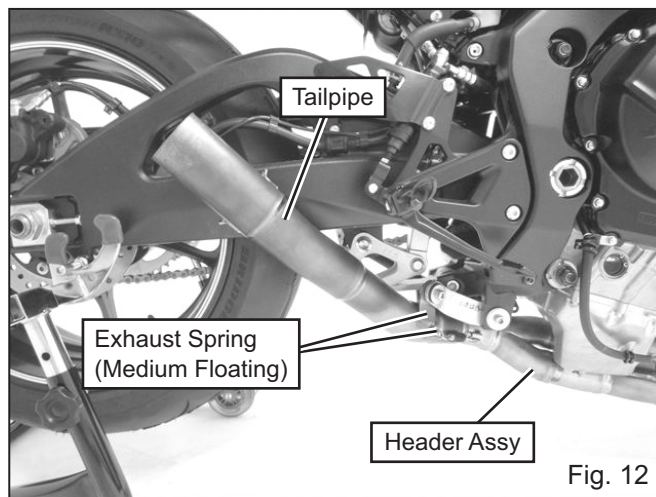


- 10) Install Tailpipe into Header Assy. Then, mount bracket on Tailpipe to Tailpipe Bracket with Cap Bolt M8x30, Washer and Flange Nut M8 (See Fig. 10 & 11). Tighten bolt by hand only at this stage.



- 11) Fixed Header Assy and Tailpipe with 2 of Exhaust Spring (Medium Floating) (See Fig. 12).

CAUTION Make sure that exhaust spring is hooked to installing tool firmly. If neglected, it may cause injury.



- 12) Mount Silencer Bracket #2 onto Silencer Assy with 2 of each Button Bolt M6x20, Washer M6x13 and Flange Nut M6 (See Fig. 13) Tighten bolts by hand only at this stage.
- 13) Install SD#136 with Cap Bolt M6x8 Thread Lock and Conical Spring Washer M6 if necessary (See Fig. 14).

REFERENCE

JSB

Without dB killer : 110dB/6,000rpm

With dB killer SD#136 : 108dB/6,000rpm

ST

Without dB killer : 106dB/6,000rpm

With dB killer SD#136 : 103dB/6,000rpm

Tightening Torque Cap Bolt M6x8 : 10Nm

CAUTION Torque specification must be followed.

- 14) Install Silencer Assy into Tailpipe, and mount Silencer Bracket #2 on Silencer Bracket #1 with Cap Bolt M8x30, Washer M8x20, 2 of Washer M8x26 and Flange Nut M8 (See Fig. 15 & 16). Tighten bolt by hand only at this stage.

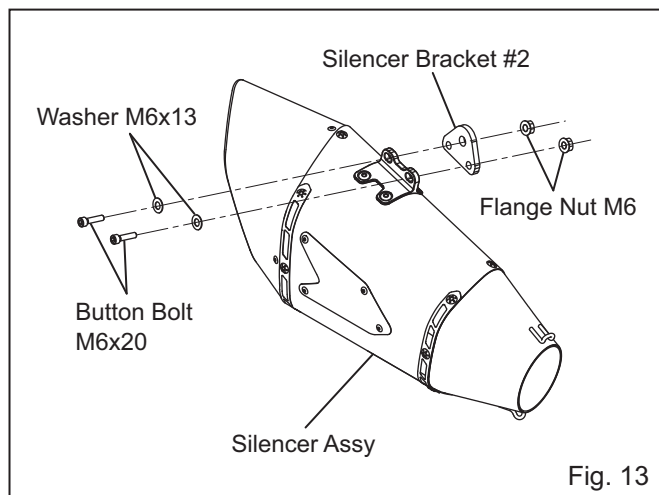


Fig. 13

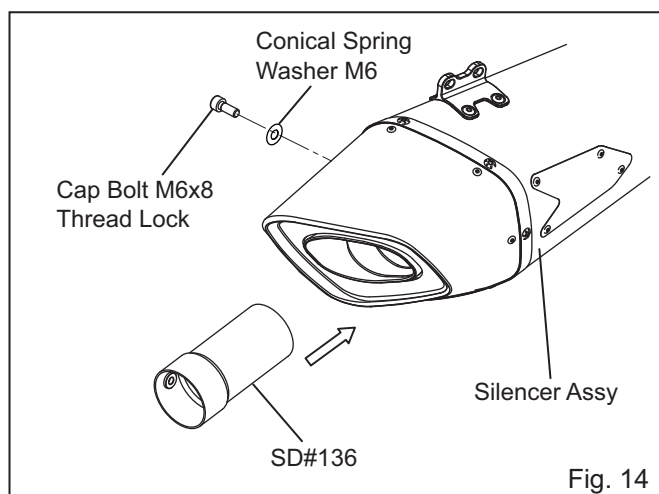


Fig. 14

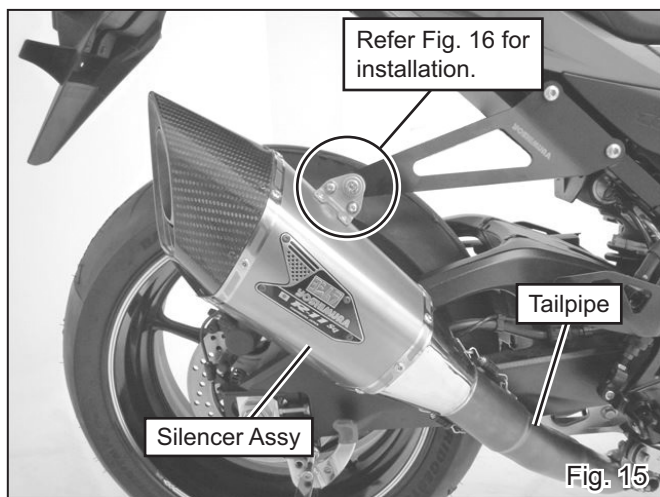


Fig. 15

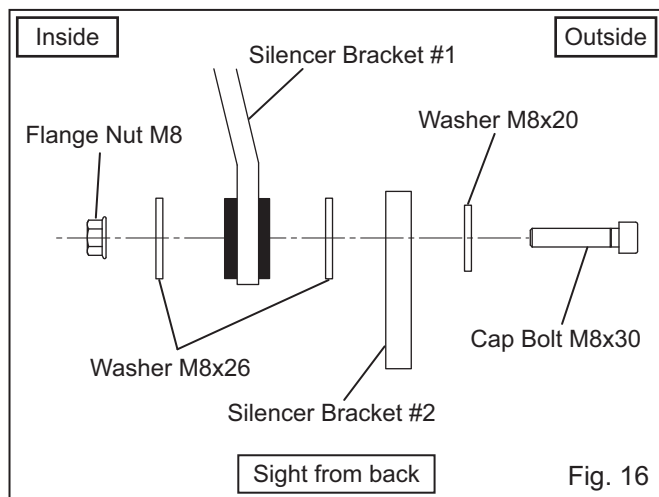


Fig. 16

- 15) Fixed Silencer Assy and Tailpipe with 2 of Exhaust Spring (Medium Floating) (See Fig. 17).

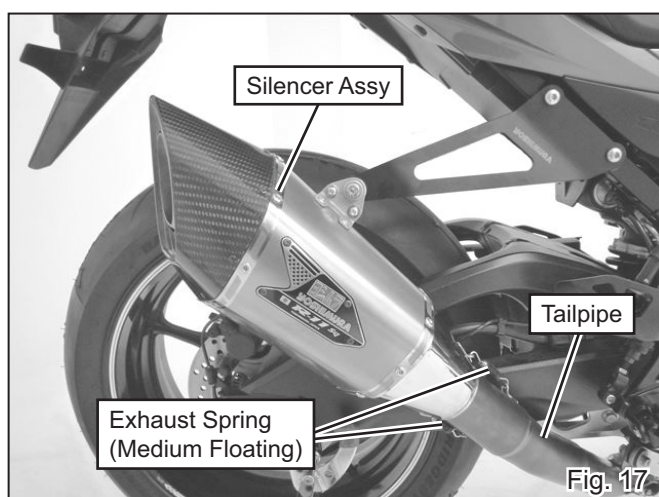


Fig. 17

- 16) Check angle of Silencer Assy and proper clearances between Yoshimura exhaust and other components from back of vehicle. Then, tighten and torque Cap Bolt M8x30 on Tailpipe Bracket, Button Bolt M6x20 and Cap Bolt M8x30 on Silencer Bracket #2 in order (See Fig. 18).

Tightening Torque

Cap Bolt M8x30 (Tailpipe Bracket)	: 23Nm
Button Bolt M6x20 (Silencer Bracket #2)	: 10Nm
Cap Bolt M8x30 (Silencer Bracket #2)	: 23Nm

CAUTION Torque specification must be followed.

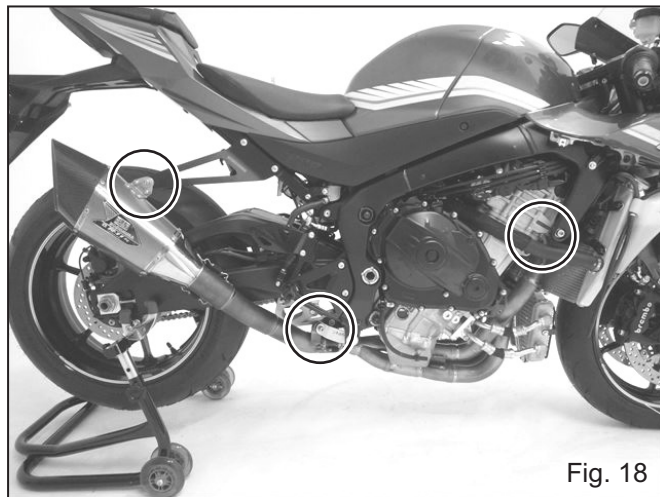


Fig. 18

- 17) Check proper clearances between Header Assy and other components such as radiator or engine and between Tailpipe or Silencer Assy and swing arm, etc. In case there is no clearance, loosen bolts and re-adjust the position of exhaust pipes.

- 18) It is recommended that whole Yoshimura exhaust system to be wiped down with dish soap to remove oil and fingerprints. This will prevent tarnishing of finish after the exhaust system is heated up.

CAUTION When cleaning silencer, use soft cloth with dish soap. Do not use metal polish or parts cleaner. If neglect, the paint of Emblem and Metal Magic finish may come off or Titanium Blue color may tarnish.

- 19) Warm-up engine, and inspect the exhaust leakage.

- 20) Re-mount fairings.
In case that stock fairing is used with Yoshimura exhaust system, make sure to keep 5mm or more clearance between Yoshimura exhaust and the fairing by trimming the fairing (See Fig. 19).

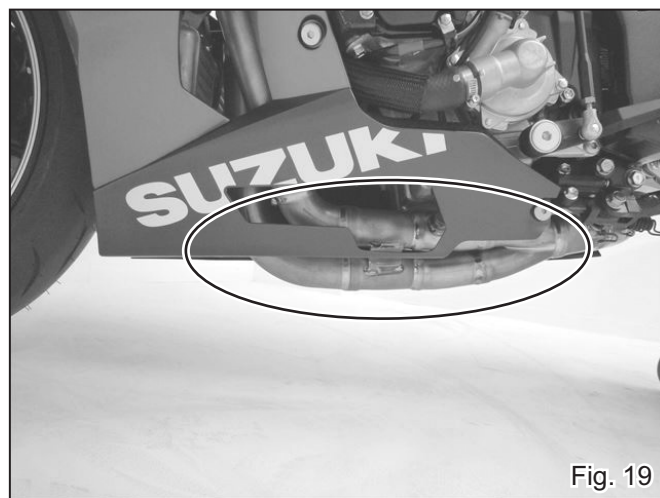


Fig. 19

- 21) If "after fire" sounds severely, seal gaps of joint between Header Assy and Tailpipe with silicone gasket etc. If "after fire" sounds have not stopped, adjust throttle position sensor (TPS) according to Suzuki Service Manual.

CAUTION Adjusting throttle position sensor (TPS) must be done according to Suzuki Service Manual. If the order is neglected or confused, it may cause damage to engine.

REFERENCE To change the oil filter, use oil filter wrench (See Fig. 20).



Fig. 20

After Installation



! CAUTION

Titanium Blue sleeve is colored by anodizing. Handle with care as the color may change. When cleaning silencer, use soft cloth with dish soap but do not use metal polish or chemical cleaner.

! CAUTION

This product is produced for race track use only. In case it is used on public road or tested on chassis dynamometer, any damage or carbon discoloration is not included in warranty.

! CAUTION

Yoshimura Japan recommends silencer inner wool repacking in order to get Yoshimura exhaust performance fully or avoid damaging. Climate, riding condition and frequency of ride are direct contributing factors for inner wool worn out. Keeping high engine revolution also promotes further wool consumption. Weigh new silencer assy (or silencer assy after repacking) and record the weight in order or compare with weight after used. If silencer weight is 50g lighter than original (new or after repacking), inner wool repacking is must required. For silencer repacking, please contact local Yoshimura Japan distributor for further information.

- CAUTIONS AFTER INSTALLATION -

- ⊙ Check each bolt sometimes to see that there is no failure condition such as poor tightening.
- ⊙ Quality control is implemented on all products. If, however, any defect or failure is found, please notify Yoshimura Japan through the selling dealer. Necessary technical service or replacing of the product will be made.
- ⊙ Due to improvement, the specifications and price of the product are subject to change without notice.
- ⊙ For any information regarding this product, please address inquiries to Yoshimura Japan Co., Ltd.

Yoshimura Japan Co., Ltd.

6748 Nakatsu, Aikawa, Aiko, Kanagawa 243-0303 Japan

Web site: <http://www.yoshimura-jp.com>

Important caution for GSX-R1000/R L7-M1 with Yoshimura Racing exhaust system

Indicated exhaust systems:

Part No./Description	150-50A-A1xG1	Racing full system R-11Sq
Part No./Description	150-50A-C1xG1	Racing full system R-11Sq
Part No./Description	150-50A-AXxG0	Racing full system R-11Sq R
Part No./Description	150-50A-CXxG0	Racing full system R-11Sq R

CAUTION When riding closed course with OEM ECU, follow the Traction control instruction written below.

<Machine setup>

: Original tire with original overall gear ratio

→ **Traction control 1 or "OFF"**

: When using different diameter tire and/or different gear ratio

→ **Traction control "OFF"**

(Refer Fig. 1)

If neglected, exhaust gas temperature rises extremely high (Refer Fig. 2) and it causes damage of exhaust system and the silencer in the worst case. (Refer Fig. 3)



Fig. 1

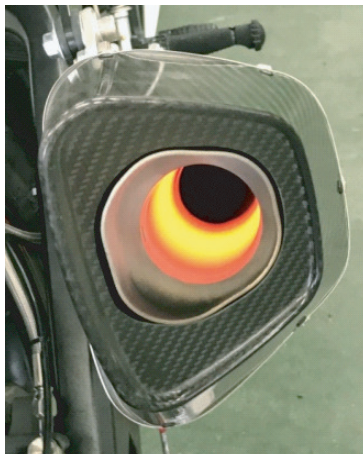


Fig. 2



Fig. 3