

## SUZUKI GSX-8S/8R RACING FULL SYSTEM R-11

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

- 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 Yoshimura product and motorcycle.

### 1. Product Information :

|             |                                          |                      |                 |
|-------------|------------------------------------------|----------------------|-----------------|
| Description | SUZUKI GSX-8S/8R Racing Full System R-11 | Cyclone Type         | S118S11C2       |
| Part Number | Stainless Sleeve (SS) : 150-118-5F50     | Main Material        | Stainless steel |
|             |                                          | Weight [STD : 7.8kg] | (SS) : 6.5kg    |

### 2. Applicable Model :

|       |                  |
|-------|------------------|
| Model | SUZUKI GSX-8S/8R |
|-------|------------------|

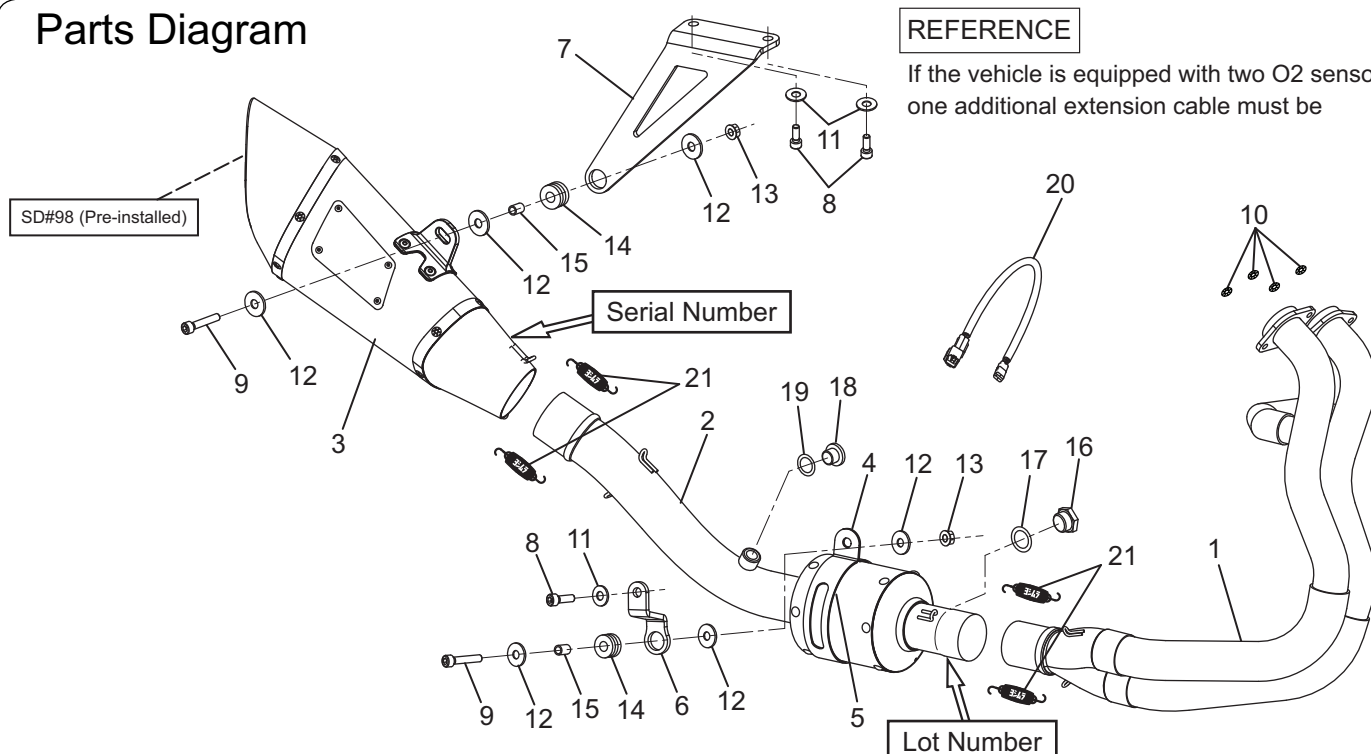
### 3. Contents:

| No. | Descriptions                   | Part No.     | Q'ty | No. | Descriptions                  | Part No.     | Q'ty |
|-----|--------------------------------|--------------|------|-----|-------------------------------|--------------|------|
| 1   | Header Assy                    | 140-118-5F00 | 1    | 14  | Grommet Rubber                | 553-565-0000 | 2    |
| 2   | Tailpipe                       | 155-118-5F00 | 1    | 15  | Grommet Spacer                | 850-208-1212 | 2    |
| 3   | Silencer Assy Stainless Sleeve | 156-118-5F51 | 1    | 16  | Sensor Boss Adapter           | 862-218-1210 | 1    |
| 4   | Silencer Band                  | 162-31R-1159 | 1    | 17  | Washer (Copper)               | 823-318-0000 | 1    |
| 5   | Silencer Band Rubber           | 896-003-1536 | 1    | 18  | Plug                          | 862-112-1812 | 1    |
| 6   | Tailpipe Bracket               | 161-118-0300 | 1    | 19  | Washer M12                    | 812-112-0000 | 1    |
| 7   | Silencer Bracket               | 161-118-0220 | 1    | 20  | Extension Cable               | 101-118-1000 | 1    |
| 8   | Cap Bolt M8x20 (Black)         | 800-708-5020 | 3    | 21  | Exhaust Spring                | 118-001-2000 | 4    |
| 9   | Cap Bolt M8x35                 | 800-208-5035 | 2    | *   | Zip Tie                       | 831-002-0150 | 4    |
| 10  | Conical Washer M8              | 811-108-0000 | 4    | *   | SD#98                         | 138-138-4398 | 1    |
| 11  | Washer M8x20 (Black)           | 812-908-2015 | 3    | *   | Cap Bolt M6x8 with thred lock | 800-806-4008 | 1    |
| 12  | Washer M8x26                   | 812-108-2600 | 6    | *   | Conical Washer M6             | 811-106-0000 | 1    |
| 13  | Flange Nut M8                  | 823-008-1250 | 2    |     |                               |              |      |

### Parts Diagram

#### REFERENCE

If the vehicle is equipped with two O2 sensors, one additional extension cable must be



## 4. Installation steps:

- 1) Check that all the component parts are in hand.
- 2) According to SUZUKI service manual, remove side and under fairings, and right side footrest.
- 3) According to SUZUKI service manual, remove O2 sensor coupler. Then, remove stock exhaust system from vehicle (See Fig. 1).

When using an O2 sensor for installation, remove the O2 sensor from the genuine muffler.

**CAUTION** When removing silencer assembly, be careful not to damage frame or other components.

**REFERENCE** Stock nuts and bolt removed at this stage are reused when mounting Yoshimura product.

- 4) Remove rear brake master cylinder tank from RH passenger foot peg bracket. Then remove passenger foot peg bracket from both sides (See Fig. 2).
- 5) Install Grommet Rubber and Grommet Spacer to Silencer Bracket. Then, mount Silencer Bracket on vehicle with 2 of each Cap Bolt M8x20 (Black) and Washer M8x20 (Black) (See Fig. 3). Tighten bolts with below specified torque.

**Tightening Torque** Cap Bolt M8x20 (Black) : 23Nm

**CAUTION** Torque specification must be followed.

- 6) Change the exhaust gasket on exhaust ports with new gasket. Then, install Header Assy into exhaust port of engine with Conical Washer M8 and stock bolts (See Fig. 4 & 5). Tighten bolt only by hand at this stage.

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

**REFERENCE** Use new SUZUKI genuine exhaust gaskets.

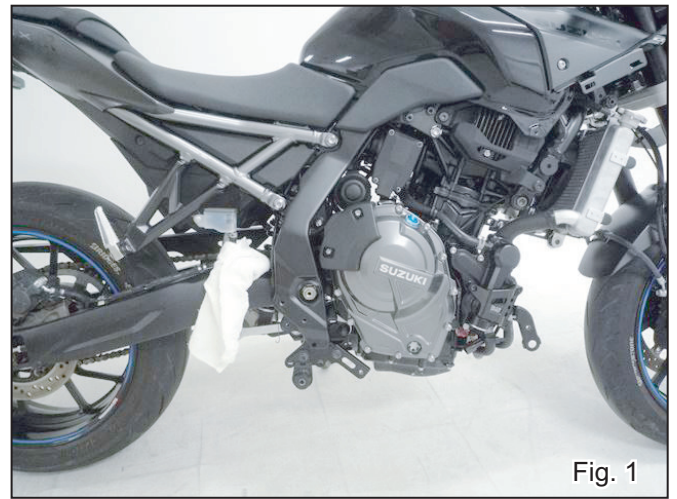


Fig. 1

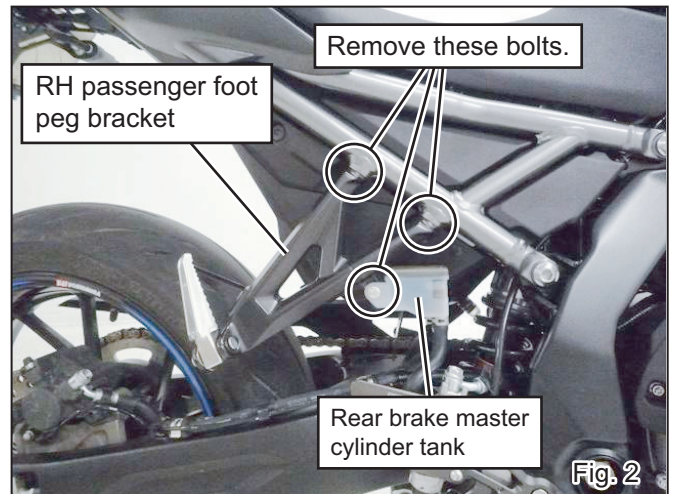


Fig. 2

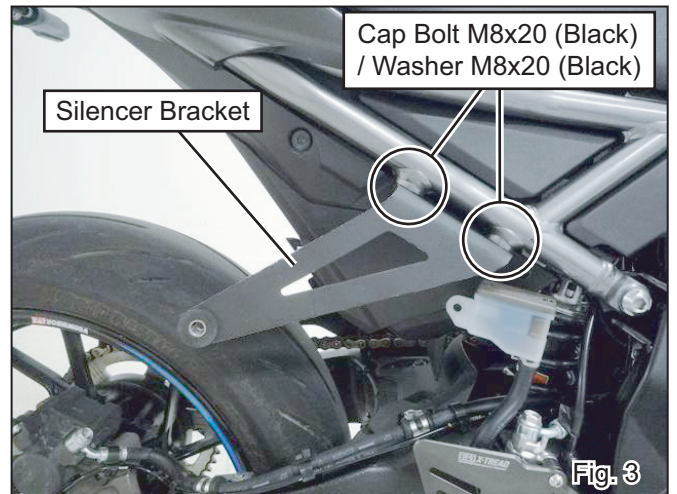


Fig. 3

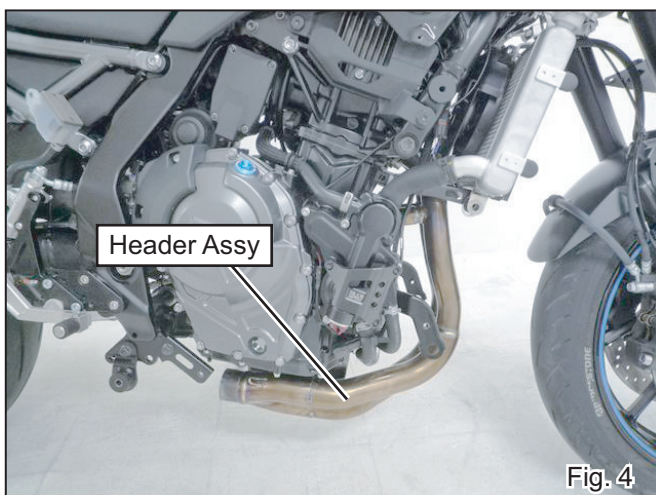


Fig. 4

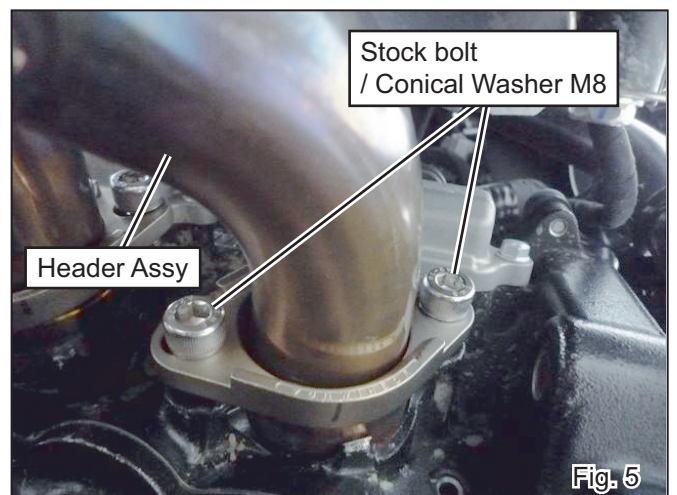


Fig. 5

- 7) Install Grommet Rubber and Grommet Spacer to Tailpipe Bracket (See Fig. 6).

- 8) Place Silencer Band Rubber inside Silencer Band and install it on Sub-silencer. Respect 15mm gap between the silencer band and sub silencer's rear end. Then fix the Silencer Band on Tailpipe Bracket with Cap Bolt M8x35, 3 of Washer M8x26 and Flange Nut M8 (see Fig. 7 & 8).

**CAUTION** When mounting Silencer Band on Sub-silencer, make sure Yoshimura Logo printed in Silencer Band comes on the left side when viewed from back (See Fig. 8).

**CAUTION** Be sure to place Silencer Band at right angles to Sub-silencer. If neglected, it may cause breakage to Silencer Band.

**CAUTION** Before hand-tightening Silencer Band, make sure silencer sleeve and Silencer Band fit evenly and there is no opening between them. If neglected, it may cause deformation of silencer sleeve.

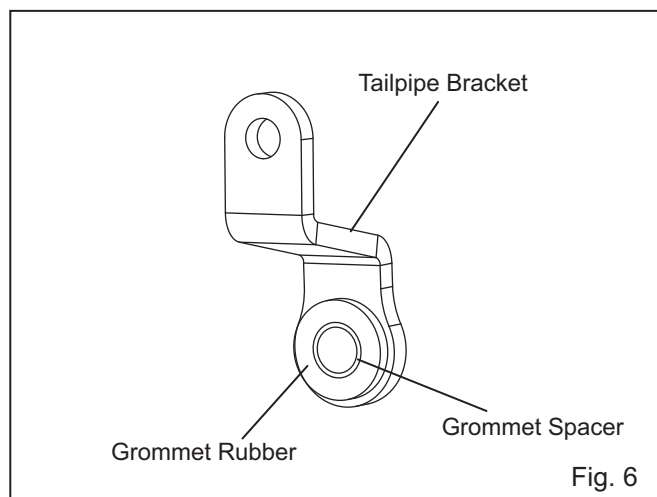


Fig. 6

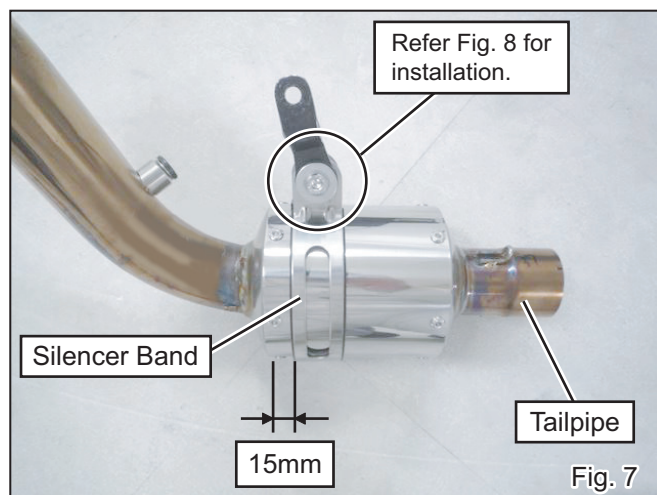


Fig. 7

- 9) Install Tailpipe to Header Assy and fix them with 2 of Exhaust Springs (Medium Floating) (See Fig. 9).

**CAUTION** Make sure that Exhaust Spring is hooked to spring installation tool firmly. If neglected, it may cause injury.

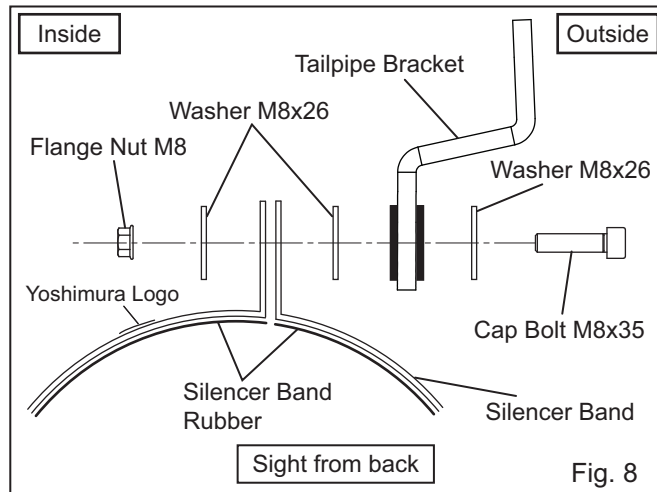


Fig. 8

- 10) Then, mount Tailpipe Bracket to OEM Exhaust Bracket on the right side of the vehicle with Cap Bolt M8x20 (Black) and Washer M8x20 (Black) (See Fig. 10 & 11 on next page). Tighten nut only by hand at this stage.

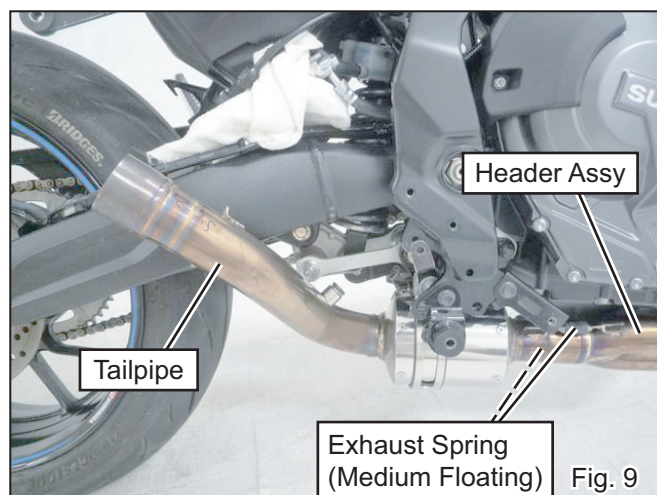


Fig. 9

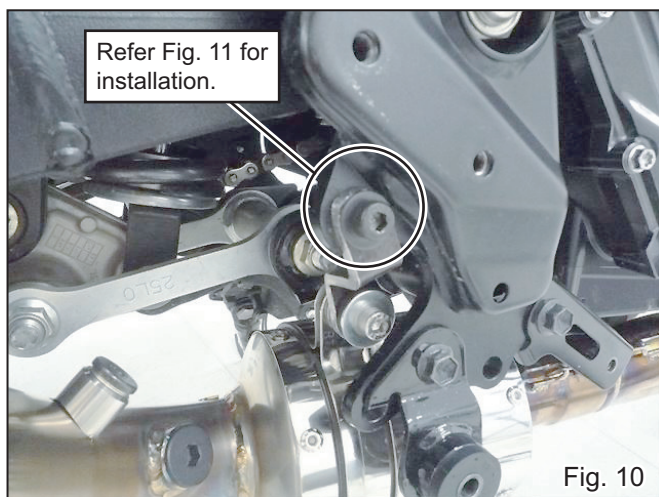


Fig. 10

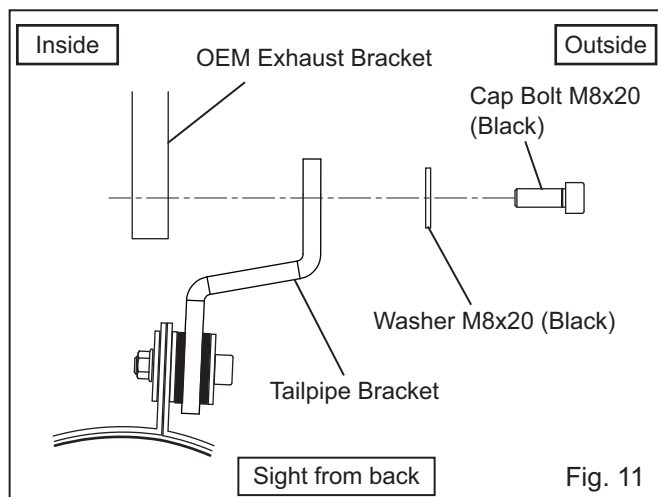


Fig. 11

11) Install Silencer Assy to Tailpipe and fix them with 2 of Exhaust Springs (Medium Floating) (See Fig. 12).

12) Attach Silencer Assy to Silencer Bracket with Cap Bolt M8x35, 3 of Washer M8x26 and Flange Nut M8 (See Fig. 12 & 13). Tighten bolt only by hand at this stage.

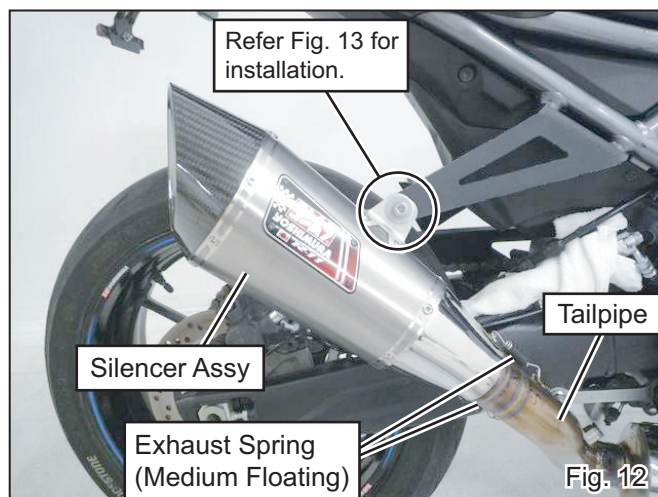


Fig. 12

13) Check that there are proper clearances between Yoshimura exhaust system and other components. Then, tighten with below specified torque the stock bolts on exhaust port, Cap Bolt M8x20 (Black) on Tailpipe Bracket, Cap Bolt M8x35 on Silencer Band, Cap Bolt M8x35 on Silencer Bracket, in order (See Fig. 14 & 15).

#### Tightening Torque

|                                   |        |
|-----------------------------------|--------|
| Stock bolt                        | : 15Nm |
| Cap Bolt M8x20 (Black)            | : 23Nm |
| Cap Bolt M8x35 (Silencer Band)    | : 23Nm |
| Cap Bolt M8x35 (Silencer Bracket) | : 23Nm |

**CAUTION** Torque specification must be followed.

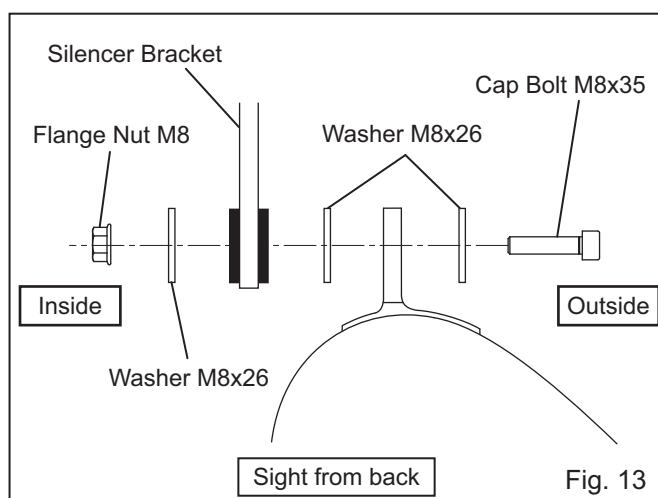


Fig. 13



Fig. 14

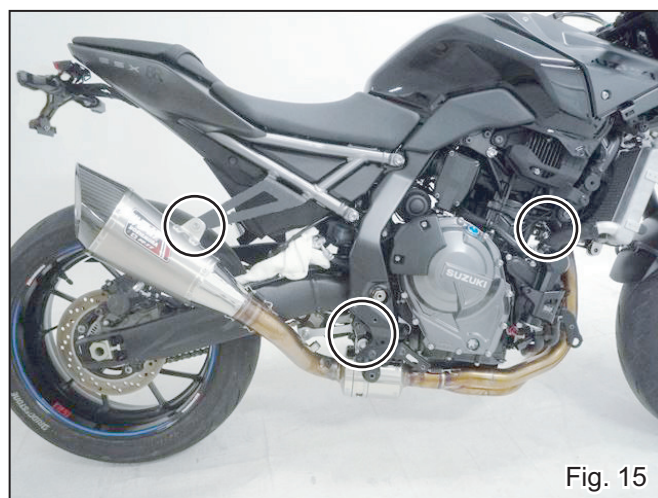


Fig. 15

- 14) Install the reservoir hose positioned near exhaust port by Zip Tie as shown in "Fig. 16", to make sure they do not interfere with exhaust pipe. (See Fig. 16)
- 15) Install either A/F sensor, stock O2 sensor or Blind Plug into sensor boss on Tailpipe.

Installation on a vehicle with one O2 sensor.

In this case, use only the front sensor boss. Install Blind Plug and Washer M12 into the rear side sensor boss. (See Fig. 17 & 18/19)

**Ⓐ When using A/F sensor.**

Connect Extension Cable to A/F sensor. Then install A/F sensor to front side sensor boss.

**Ⓑ When using stock O2 sensor.**

Install Washer (Copper) and Sensor Boss Adaptor into front side sensor boss and tighten it with specified torque first. Connect Extension Cable to O2 sensor. Then install stock O2 sensor to front side sensor boss.

Tighten with below specified torque.

Installation on a vehicle with two O2 sensor.

(See Fig. 17 & 18/19/20)

**Ⓐ When using A/F sensor.**

Connect Extension Cable to A/F sensor. Then install A/F sensor to front side sensor boss and Blind Plug and Washer M12 into rear side.

**Ⓑ When using stock O2 sensors.**

Install Washer (Copper) and Sensor Boss Adaptor into front side sensor boss and tighten it with specified torque first. Connect Extension Cable to both front and rear O2 sensor. Then install stock O2 sensors into both front and rear sensor boss.

Tighten with below specified torque.

**Tightening Torque**

|                                        |        |
|----------------------------------------|--------|
| A/F sensor (M18) / Sensor Boss Adaptor | : 45Nm |
| Stock O2 sensor (M12) / Blind Plug     | : 25Nm |

**⚠ CAUTION** Torque specification must be followed.

**REFERENCE** If the vehicle is equipped with two O2 sensors, one additional extension cable must be purchased separately.

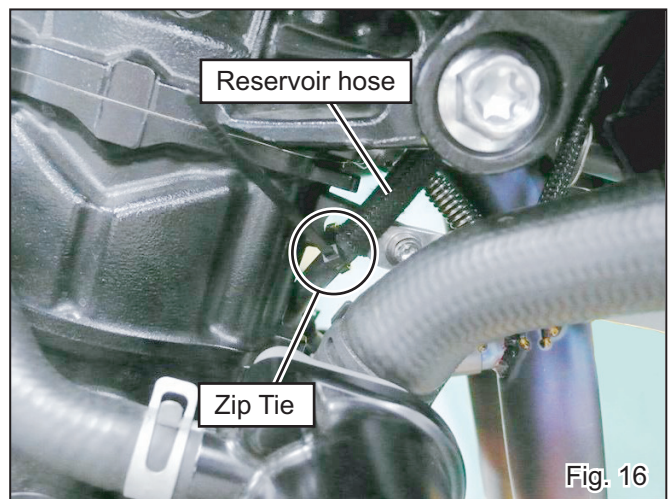


Fig. 16

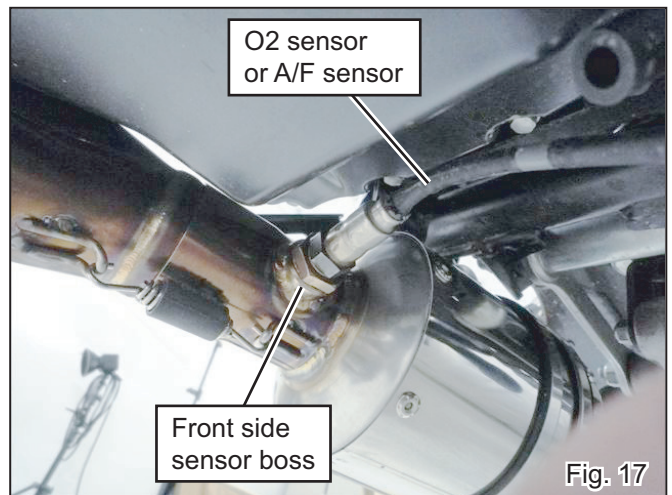


Fig. 17

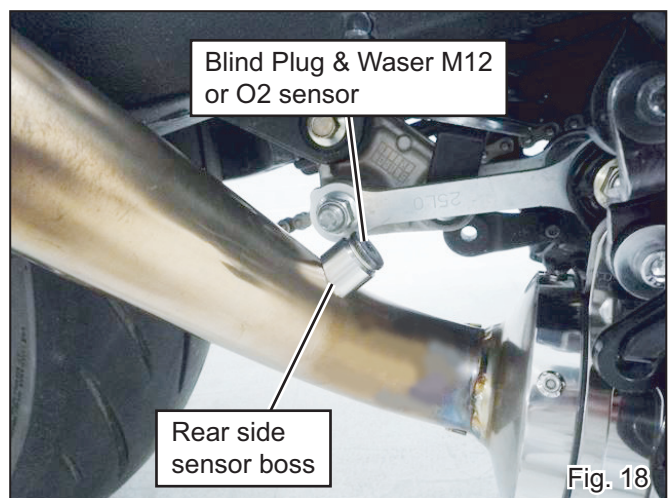


Fig. 18

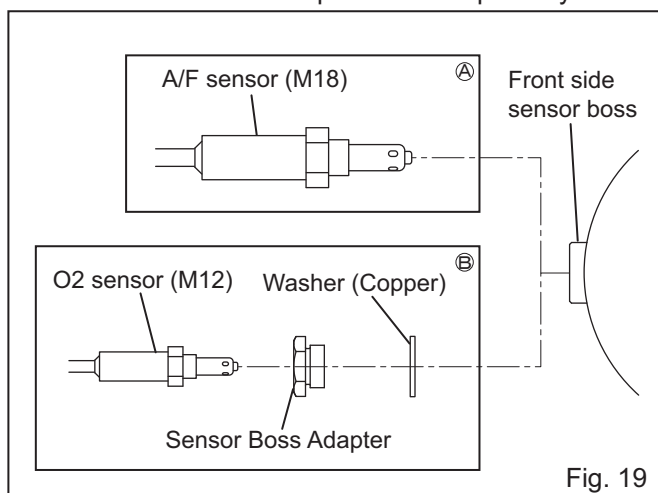


Fig. 19

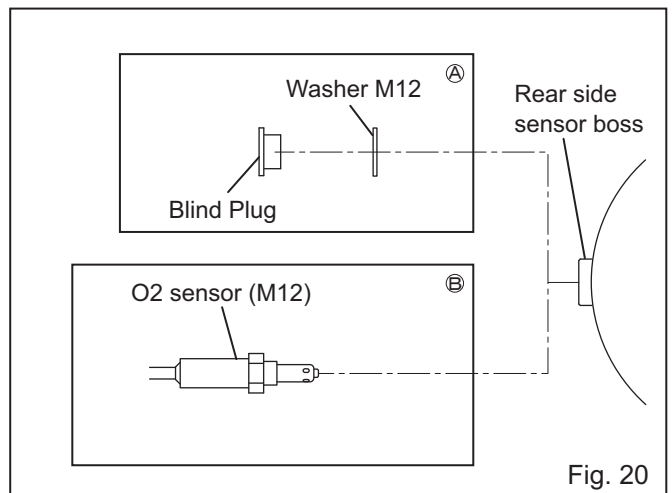
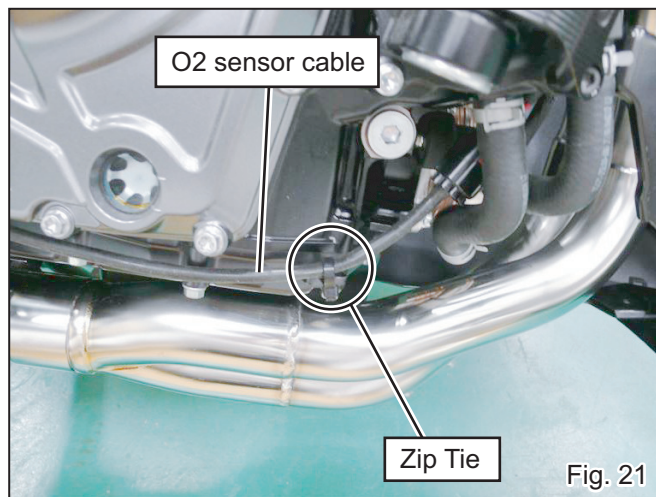


Fig. 20

16) Connect the O2 sensor coupler or extension harness to the vehicle's coupler.

17) Use a Zip Tie and a clip on the vehicle side to secure the O2 sensor cable so that it does not interfere with the muffler or engine (See Fig. 21).

18) Make sure there are proper clearances between Yoshimura exhaust system and other components. In case there is not enough clearance, loosen bolts and readjust the position of Yoshimura exhaust system.



19) It is recommended that whole Yoshimura exhaust system is 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.

20) Warm-up engine, and inspect the exhaust leakage. Tighten all bolts further after engine is cooled down.

**CAUTION** Before begging the work, make sure the motorcycle is cooled down.

**REFERENCE** It is normal for new silencer to smoke until inside oil residue burns off.

21) Remount side and under fairings.

**CAUTION**

This product is produced for race track use only.

**CAUTION**

Yoshimura Japan recommends periodical 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 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.

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