

## KAWASAKI NINJA ZX-25R / ZX-4R / ZX-4RR RACING FULL SYSTEM HEPTA FORCE TSS

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

### 1. Applicable Model :

Model	KAWASAKI Ninja ZX-25R / ZX-4R / ZX-4RR
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### 2. Product Information :

Description	KAWASAKI Ninja ZX-25R / ZX-4R / ZX-4RR Racing Full System HEPTA FORCE			
Cyclone Type	K247SHTC1(Stainless) / K247THTC1(Titanium)	Part Number (Titanium)	Titanium Blue Sleeve : 150-247-A26G0	
Main Material	Stainless Steel / Titanium		Titanium Sleeve : 150-247-A28G0	
Weight	Stainless / (SSF) : 5.3kg, (STB) : 5.1kg	Part Number (Stainless)	Satin Finish Sleeve : 150-247-C23G0	
[STD; ZX-25R : 9.1kg] [STD; ZX-4R : 10.1kg]	Titanium / (TT)&(TTB) : 3.9kg		Titanium Blue Sleeve : 150-247-C26G0	

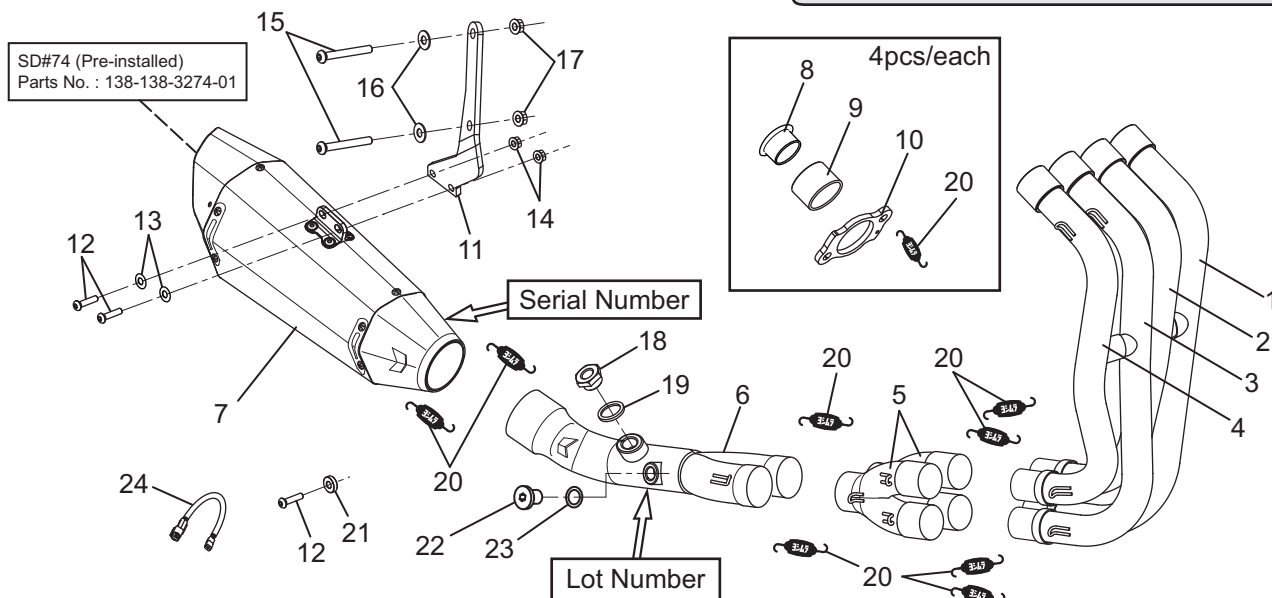
### 3. Contents:

No.	Descriptions	Part No.	Q'ty	No.	Descriptions	Part No.	Q'ty
1	Exhaust Pipe#1 (Titanium)	151-238-A200	1	9	Connector Ring	138-137-3032	4
	Exhaust Pipe#1 (Stainless)	151-238-C200	1	10	Flange	117-035-0020	4
2	Exhaust Pipe#2 (Titanium)	152-238-A200	1	11	Silencer Bracket	161-238-0220	1
	Exhaust Pipe#2 (Stainless)	152-238-C200	1	12	Button Bolt M6x20	803-206-4020	3
3	Exhaust Pipe#3 (Titanium)	153-238-A200	1	13	Washer M6x13	812-206-1310	2
	Exhaust Pipe#3 (Stainless)	153-238-C200	1	14	Flange Nut M6	823-006-1000	2
4	Exhaust Pipe#4 (Titanium)	154-238-A200	1	15	Button Bolt M8x45	803-208-5045	2
	Exhaust Pipe#4 (Stainless)	154-238-C200	1	16	Washer M8x16	812-108-1612	2
5	Exhaust Collector (Stainless)	158-238-5000	2	17	Flange Nut M8	823-008-1250	2
	Exhaust Collector (Titanium)	158-238-8000	2	18	Sensor Boss Adapter	862-218-1210	1
6	Tailpipe (Titanium)	155-247-A200	1	19	Washer (Copper)	812-318-0000	1
	Tailpipe (Stainless)	155-247-C200	1	20	Exhaust Spring (Floating)	118-001-0000	12
	Silencer Assy Satin Finish Sleeve	156-238-C23G0	1	21	Spacer 6-15-5	860-006-1505	1
7	Silencer Assy Titanium Blue Sleeve	156-238-C26G0	1	22	Blind Plug	862-112-1812	1
	Silencer Assy Titanium Sleeve	156-238-C28G0	1	23	Washer M12	812-112-0000	1
8	Connector Pipe	142-390-3610	4	24	Extension Cable	101-247-1000	1

### Parts Diagram



It is required following parts additionally when using Yoshimura Rear Sets X-TREAD together.  
803-208-5040 : Button Bolt M8x40: 2pcs



**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** 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.

#### 4. Installation steps:

- 1) Check that all the component parts are in hand.
- 2) According to Kawasaki service manual, remove front and side fairings.
- 3) According to Kawasaki service manual, disconnect O2 sensor coupler from vehicle and then remove whole exhaust system from vehicle after taking O2 sensor off from stock exhaust system. (See Fig. 1)

**CAUTION** When removing exhaust system, be careful not to damage frame or other components.

**CAUTION** Be careful not to damage the O2 sensor when removing. It is recommended to cover it with a soft cloth until it to be remounted.

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

- 4) Remove 2 of stock bolt to fix right hand side foot step. (See Fig. 2) Remount it with 2 of each Button Bolt M8x45 and Washer M8x16. Then mount Silencer Bracket from back side and fix it with 2 of Flange Nut M8. (See Fig. 3) Fasten Button Bolt M8x45 and Flange Nut M8 alternately, and torque them with the specified torque. When using Yoshimura Rear Sets X-TREAD together, refer the instruction on page 5 and mount the Silencer Bracket.

**Tightening Torque**

Button Bolt M8	: 23Nm
Flange Nut M8	: 23Nm

**CAUTION** Torque specification must be followed.

- 5) Assemble 2 of Exhaust Collector and Tailpipe while spring hooks of Exhaust Collector to be located outside. Fit Exhaust Pipe #1 & #2 and #3 & #4 together, and assemble them on Exhaust Collectors to make a header assy. Then install 6 of Exhaust spring. (See Fig. 4) Remove labels from Exhaust Pipes and wipe down grease with dish soap.

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

**CAUTION** Labels have to be removed and pipes have to be degreased before warm-up engine. If neglected Exhaust Pipe will be tarnished after the exhaust system is heated up.

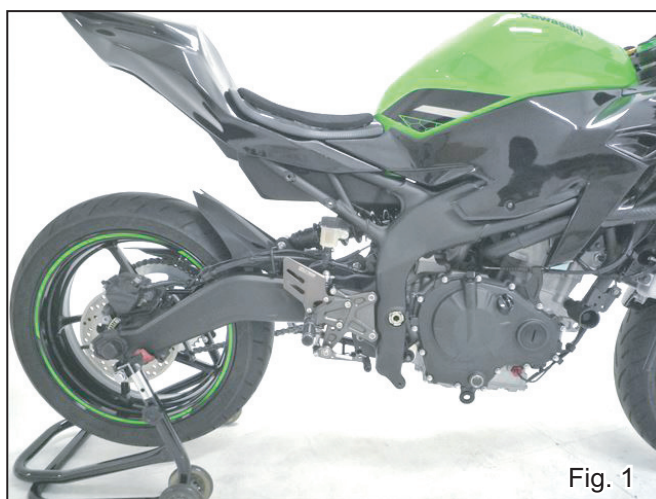


Fig. 1

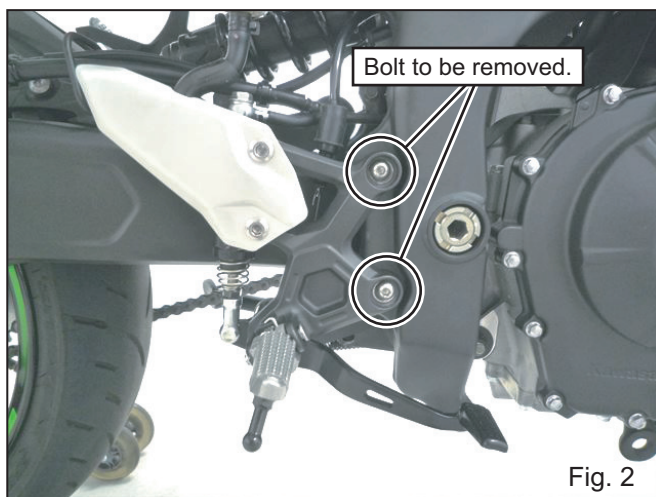


Fig. 2

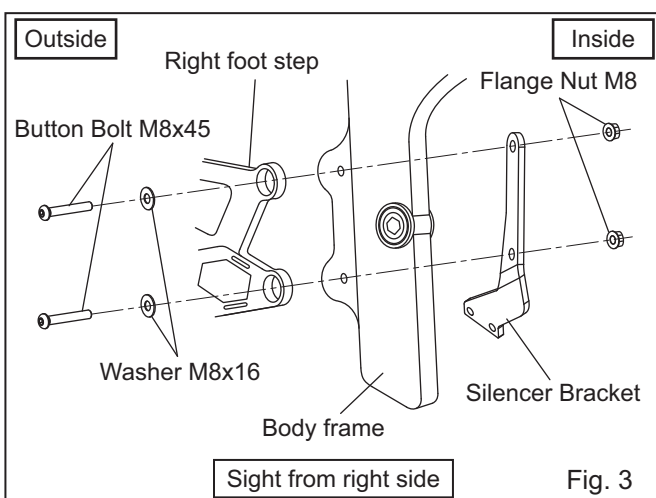


Fig. 3

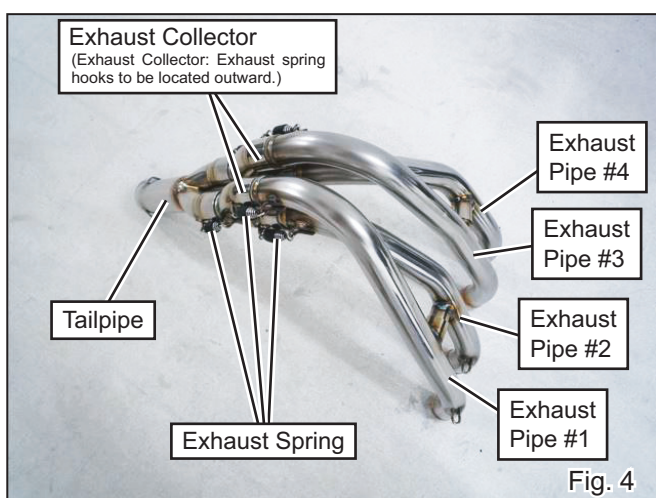


Fig. 4



- 6) Replace exhaust gaskets on all the exhaust ports with new ones and mount Flange, Connector Ring and Connector Pipe on each exhaust port with 2 of stock nut. (See Fig. 5 & 6) Tighten nut by hand only at this stage. Then hook 4 of Exhaust Spring on Flange.

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

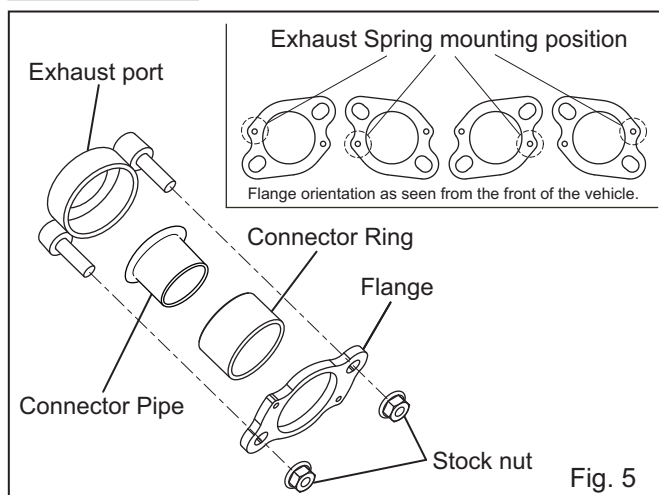


Fig. 5

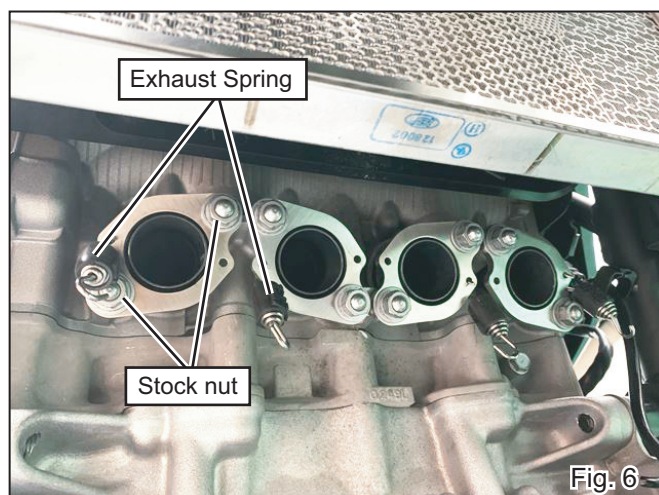


Fig. 6

- 7) Mount header assy (assembled at Step. 5) to exhaust ports and fix it with 4 of Exhaust spring. (See Fig. 7 & 8)

**CAUTION** Be careful not to damage radiator cores when mounting header assy.

**CAUTION** Adjust the position of Exhaust Pipes assembly and keep enough clearance between Exhaust Collector and oil pan.

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

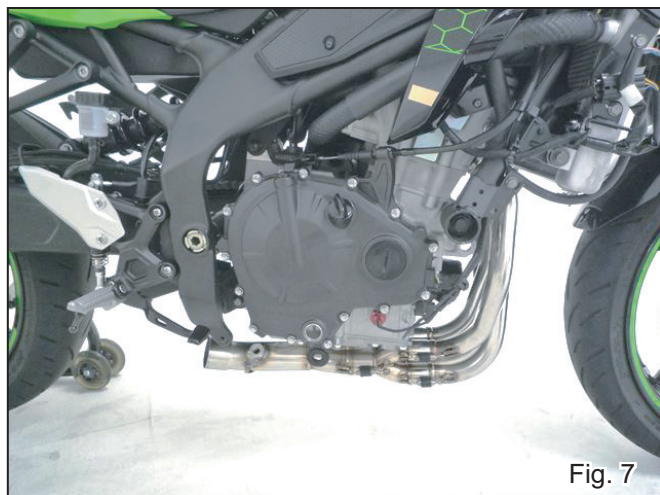


Fig. 7

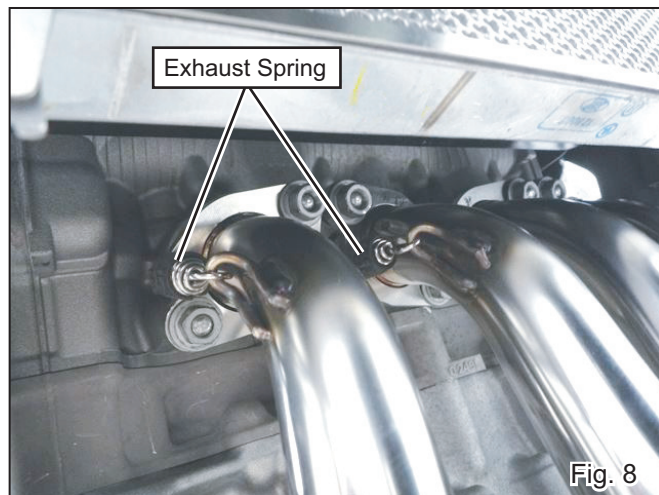


Fig. 8

- 8) Mount Silencer Assembly on Tailpipe and install 2 of Exhaust Spring. (See Fig. 9)

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

Prototype sample in photo is different from mass production.

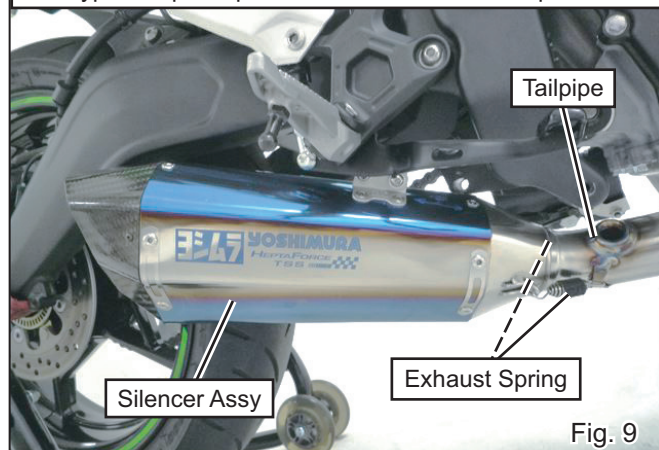


Fig. 9

- 9) Fix Silencer Assy to Silencer Bracket with 2 of each Button Bolt M6x20, Washer M6x13, Flange Nut M6. (See Fig. 10 & 11) Tighten bolt by hand only at this stage.

- 10) Check the angle and clearance between Silencer Assy and other components, and adjust the position. Knock each Exhaust Pipe #1, #2, #3 & #4 with plastic hammer gently and fit them deeply. Tighten and torque 8 of stock nut at exhaust port evenly, and then Button Bolt M6 at Silencer Bracket in order. (See Fig. 12)

<b>Tightening Torque</b>	Stock Nut	: 15Nm
	Button Bolt M6	: 10Nm

**CAUTION** Torque specification must be followed.

- 11) Install either A/F sensor (M18), stock O2 sensor or Blind Plug into sensor boss on Tailpipe.

#### Installation for ZX-25R

Note that ZX-25R uses only rear side sensor boss. Install Blind Plug and Washer M12 into the front side sensor boss. (See Fig. 13 & 14)

#### Ⓐ When using A/F sensor (M18).

Install A/F sensor (M18) to sensor boss on rear side.

#### Ⓑ When using stock O2 sensor.

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

#### Tightening Torque

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

**CAUTION** Torque specification must be followed.

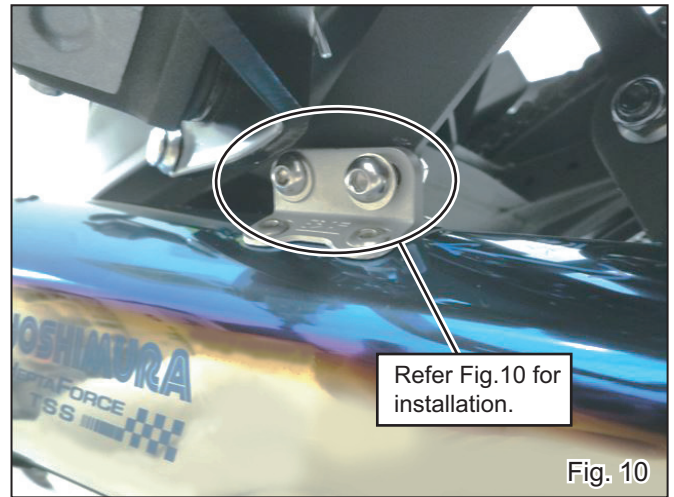


Fig. 10

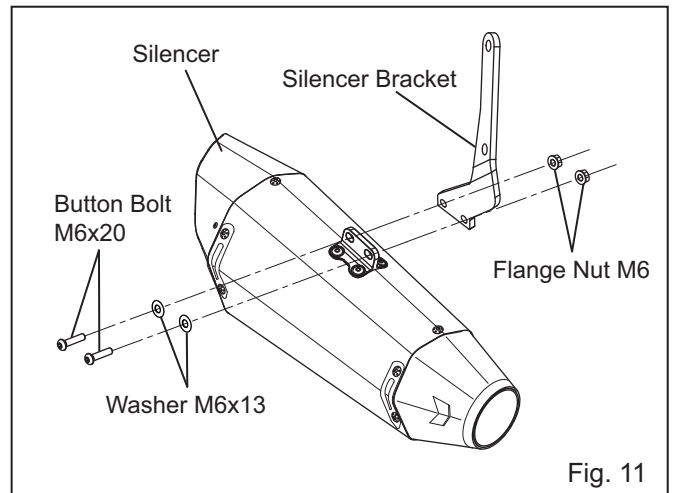


Fig. 11



Fig. 12

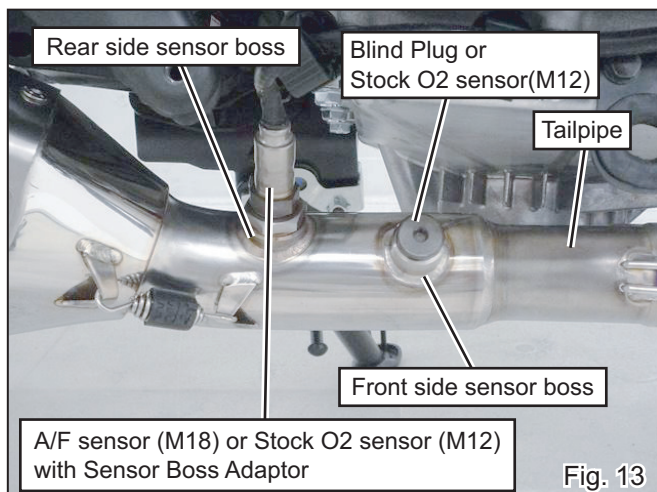


Fig. 13

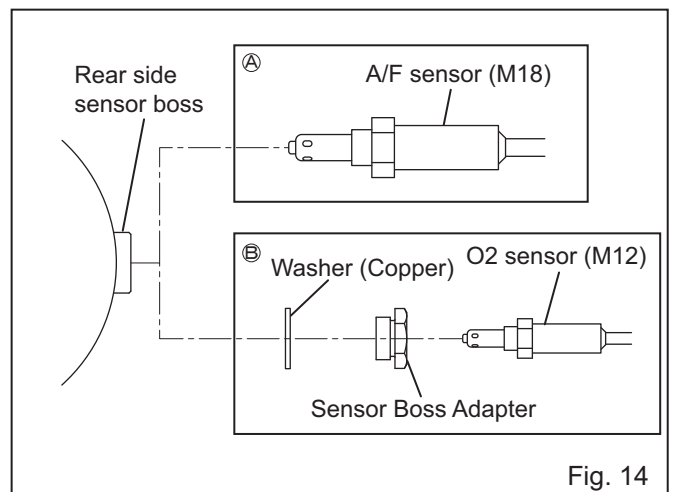


Fig. 14



Installation for ZX-4R / ZX-4RR  
(See Fig. 13 & 15/16/17)

**Ⓐ When using A/F sensor (M18)**

Install A/F sensor (M18) to sensor boss on rear side and Blind Plug and Washer M12 into front side.

**Ⓑ When using stock O2 sensors**

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

Tighten and torque them.

**Tightening Torque**

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

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

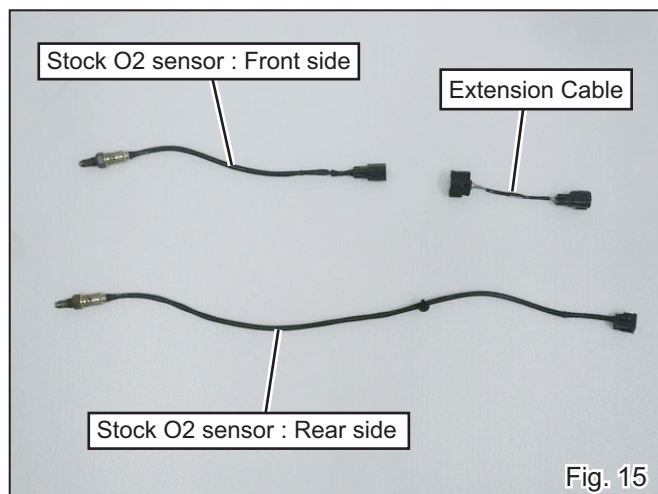


Fig. 15

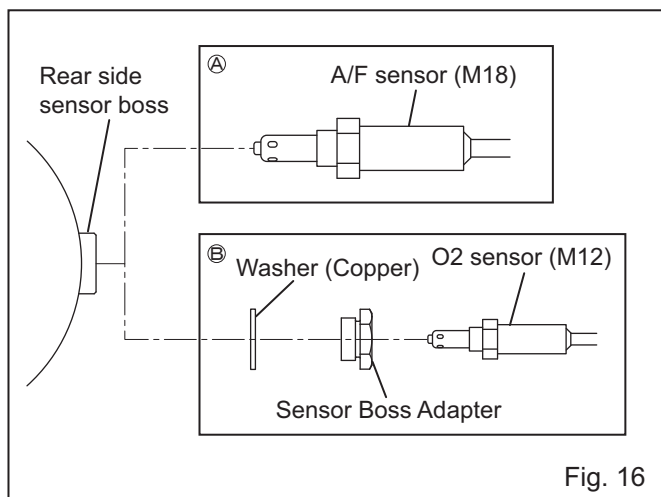


Fig. 16

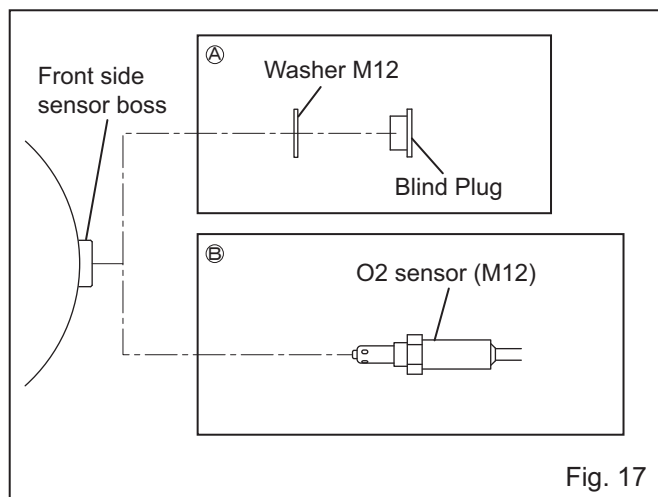


Fig. 17

- 12) Take off O2 sensor coupler at vehicle side from bracket and connect it with O2 sensor coupler at exhaust cable away from exhaust pipe or engine, and fasten it with clips and rubber clamp. (See Fig. 18 & 19)

**⚠ CAUTION** Make sure to keep O2 sensor cable away from heat source such as exhaust pipe or engine. It may cause damage of cable if neglected.

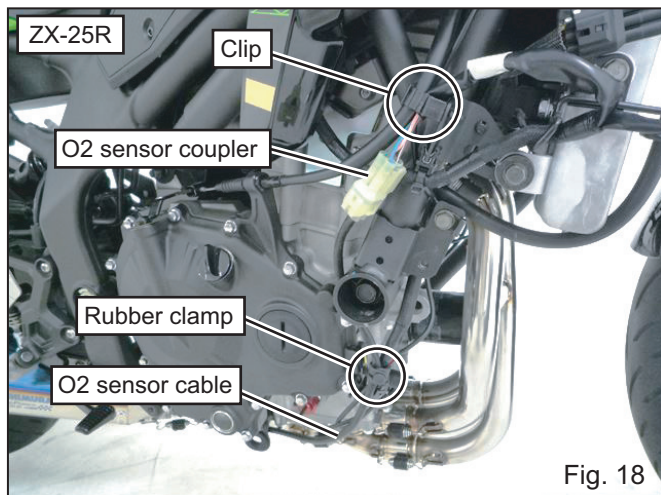


Fig. 18

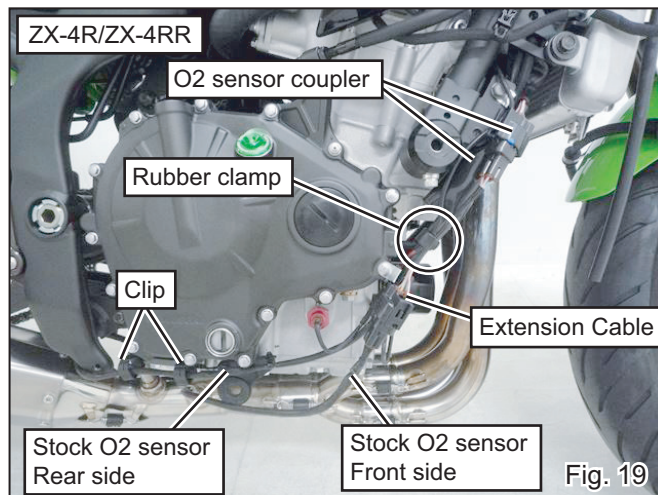


Fig. 19

- 13) 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.
- 14) 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. If neglect, Titanium Blue color may tarnish.

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

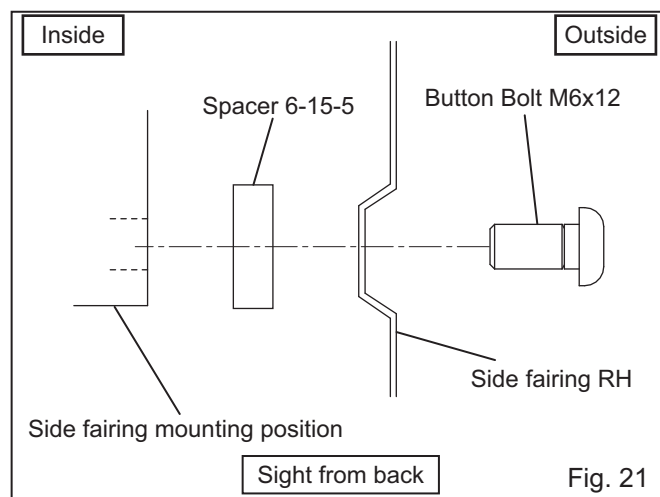
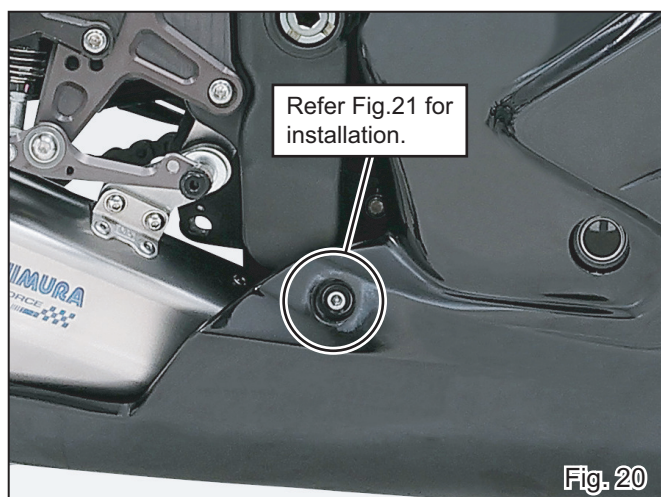
**CAUTION** Before beginning the work, let motorcycle cool down.

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

- 16) Remount front and side fairings. Use Button Bolt M6x12 and Spacer 6-15-5 on the RH side fairing rear at that time. Torque bolt with the specified torque. (See Fig. 20 & 21)

**Tightening Torque** Button Bolt M6 : 10Nm

**CAUTION** Torque specification must be followed.

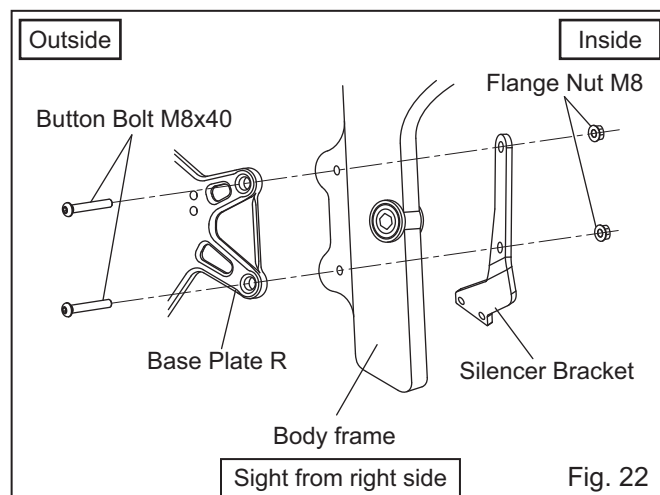


### <Installation procedure when using Yoshimura Rear Sets X-TREAD together>

Following the Yoshimura Rear Sets X-TREAD installation instruction, mount it in advance.

Remove 2 of socket bolt M8x25 on Base Plate R and mount it again with Silencer Bracket with 2 of each Button Bolt M8x40 and Flange Nut M8. Tighten and torque both Button Bolt M8x40 and Flange Nut M8 one after the other. (See Fig. 22)

**Tightening Torque** Button Bolt M8 : 23Nm  
Flange Nut M8 : 23Nm



### ***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.

#### **REFERENCE**

Yoshimura Japan recommends silencer inner wool replacement every 5,000km (3,000miles) in order to get Yoshimura exhaust performance fully. 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. For silencer repairing, please contact local Yoshimura 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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