

YAMAHA NMAX / CYGNUS GRYPHUS Street Sports Full System R-77S

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

Product information



- 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.

1. Product Information :

Description	YAMAHA NMAX / CYGNUS GRYPHUS Street Sports Full System R-77S	Cyclone Type	Y317SCI12
		Main Material	Stainless steel
Part Number	Metal Magic Sleeve (SM) : 180A-317-5120	Weight NMAX CYGNUS [STD : 4.8kg / 5.0kg]	(SM) & (SSF) : 2.8kg / 3.0kg
	Satin Finish Sleeve (SSF) : 180A-317-5130		(STB) : 2.6kg / 2.8kg
	Titanium Blue Sleeve (STB) : 180A-317-5180B		

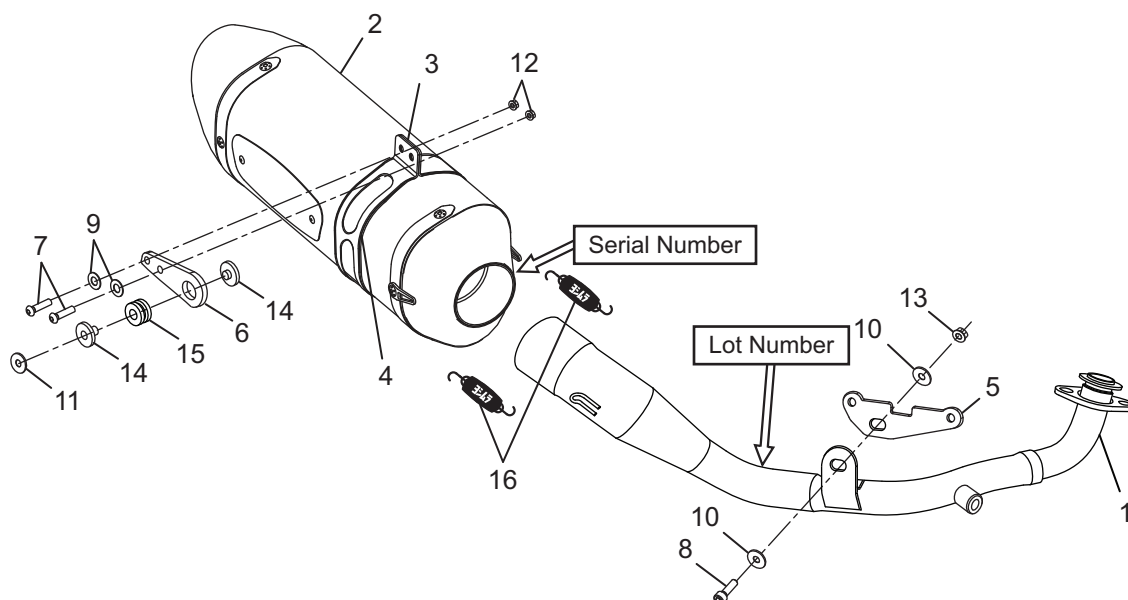
2. Applicable Model :

Model	YAMAHA NMAX ('21-) / CYGNUS GRYPHUS
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3. Contents:

No.	Descriptions	Part No.	Q'ty	No.	Descriptions	Part No.	Q'ty
1	Exhaust Pipe	181-317-5U00	1	8	Cap Bolt M8x20	800-208-5020	1
2	Silencer Assy Metal Magic Sleeve	186-317-5120	1	9	Washer M6x13	812-206-1310	2
	Silencer Assy Satin Finish Sleeve	186-317-5130		10	Washer M8x22	812-108-2216	2
	Silencer Assy Titanium Blue Sleeve	186-317-5180B		11	Washer M10x22	812-110-2216	1
3	Silencer Band	162-22R-G500	1	12	Flange Nut M6	823-006-1000	2
4	Silencer Band Rubber	896-016-0835	1	13	Flange Nut M8	823-008-1250	1
5	Exhaust Pipe Bracket	161-317-0300	1	14	Gromet Speacer 10-26-9	850-210-26A1	2
6	Silencer Bracket	161-317-0320	1	15	Grommet Rubber	553-565-0000	1
7	Button Bolt M6x15	803-206-4015	2	16	Exhaust Spring (Medium Floating)	118-001-2000	2

Parts Diagram



4. Installation steps:

- 1) Check that all the component parts are in hand.
- 2) According to YAMAHA Service Manual, remove the radiator cover.
- 3) Disconnect O2 sensor coupler and unhook its wire from vehicle. Then, remove stock exhaust system from vehicle. (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 soft cloth until remounted.

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

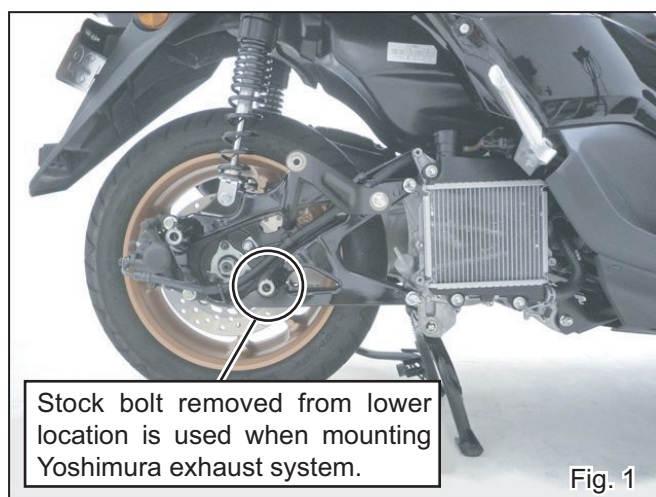


Fig. 1

- 4) Loosen 2 of stock bolt which are mounting radiator and fasten them in the same position with Exhaust Pipe Bracket. (See Fig. 2 & 3) Tighten and torque bolts.

Tightening Torque Stock bolt : 10Nm

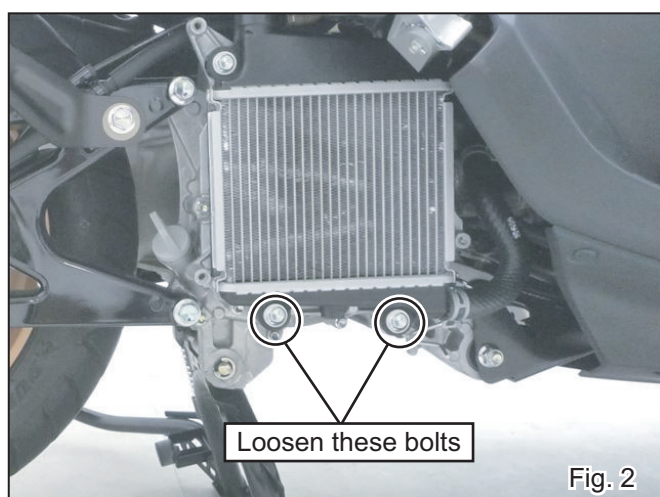


Fig. 2

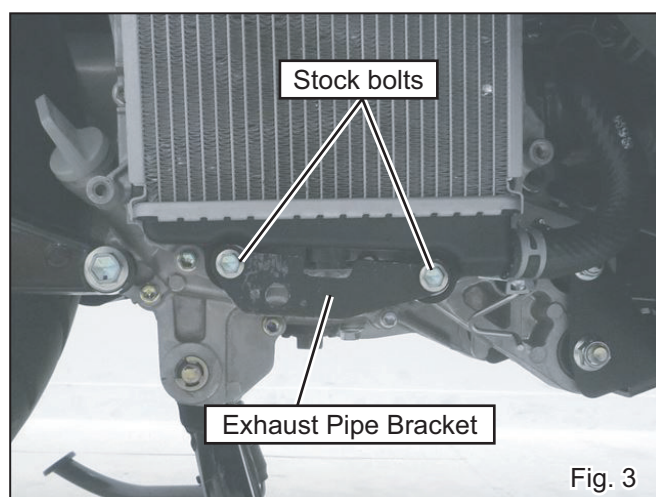


Fig. 3

- 5) Remove O2 sensor from stock exhaust system and install it on Exhaust Pipe. Tighten and torque the O2 sensor. (See Fig. 4)

CAUTION Handle O2 sensor with care not to be hit. If neglected, it may cause serious damage.

Tightening Torque O2 sensor : 25Nm

- 6) Make sure to insert YAMAHA genuine exhaust gasket into exhaust port. Then, mount Exhaust Pipe on exhaust port with stock nuts. Tighten nuts by hand at this stage. (See Fig. 5 & 6 on next page)

CAUTION Use new YAMAHA genuine exhaust gasket.

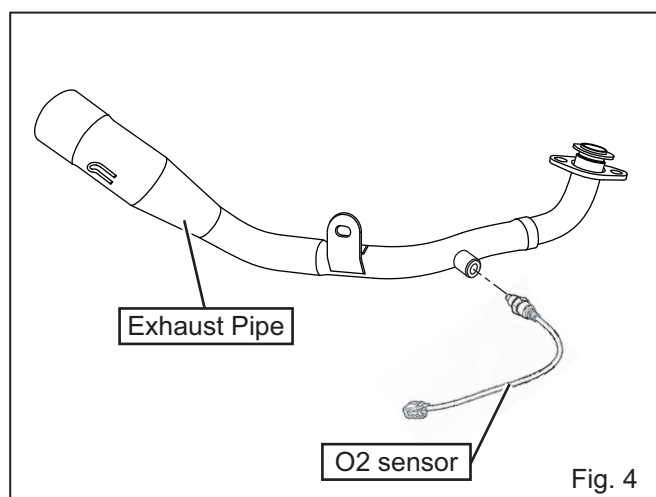
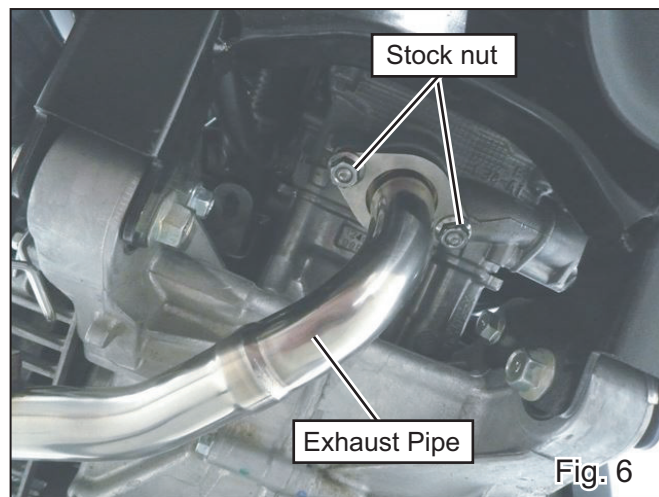
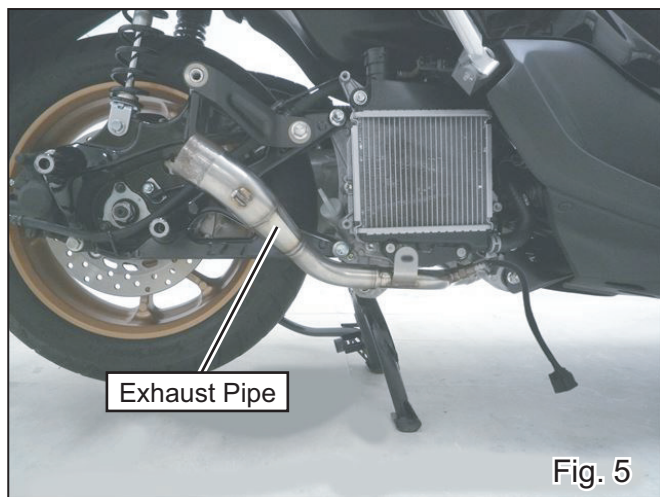
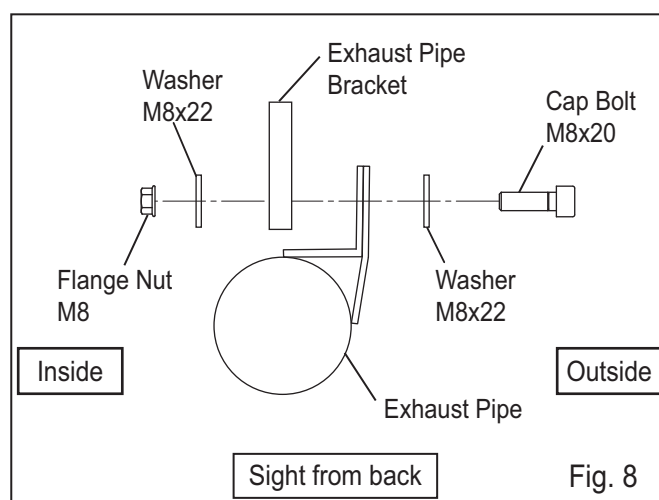
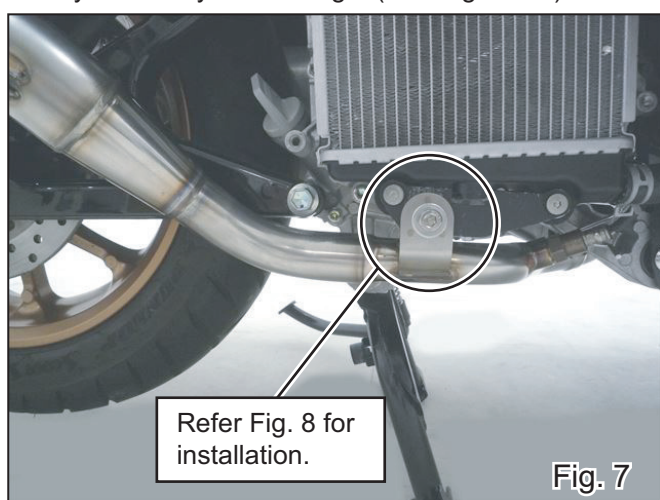


Fig. 4



- 7) Fix Exhaust Pipe onto Exhaust Pipe Bracket with Cap Bolt M8x20, 2 of Washer M8x22 and Flange Nut M8. Tighten bolt by hand only at this stage. (See Fig. 7 & 8)

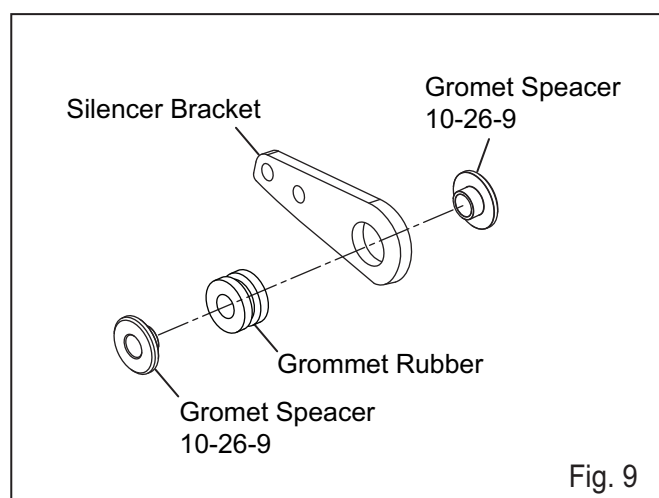


- 8) Mount Grommet Rubber and 2 of Grommet Spacer 10-26-9 on Silencer Bracket. (See Fig. 9)

- 9) Place Silencer Band Rubber inside Silencer Band, and slide them on Silencer Assy. Set Silencer Band position at **62mm** from front edge of silencer sleeve, then fix Silencer Band on Silencer Bracket with 2 of each Button Bolt M6x15, Washer M6x13 and Flange Nut M6. (See Fig. 10 & 11 on next page) Tighten bolts by hand only at this stage.

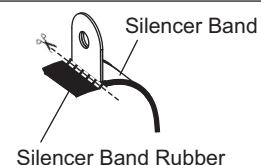
CAUTION Be sure to place Silencer Band at right angles to Silencer Assy. If neglected, it may cause breakage to Silencer Band.

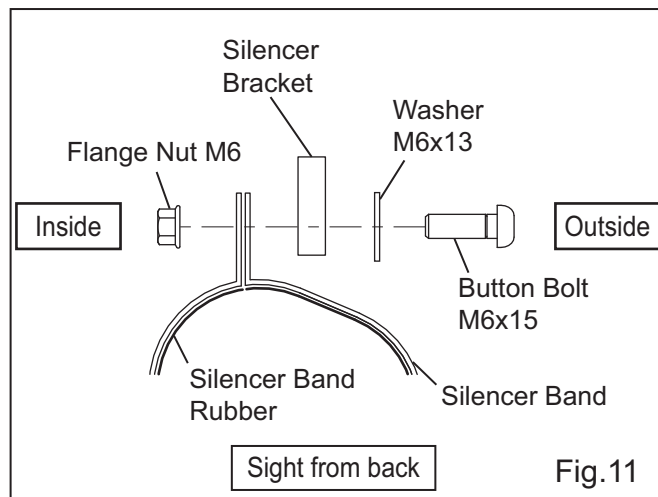
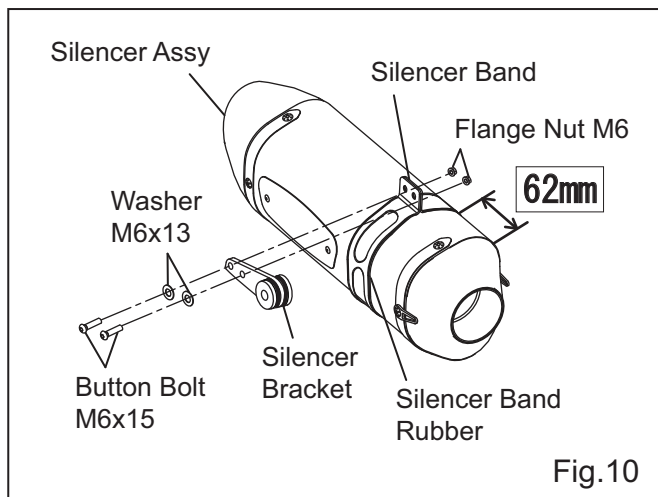
CAUTION Before tighten Silencer Band, make sure silencer sleeve and Silencer Band fit evenly and there is no opening between them. If neglected, it may cause deformation of silencer sleeve.



REFERENCE Cut excess of Silencer Band Rubber with scissors etc. when placing it inside Silencer Band.

CAUTION When mounting Silencer Band on Silencer Assy, make sure to face Yoshimura Logo outside.



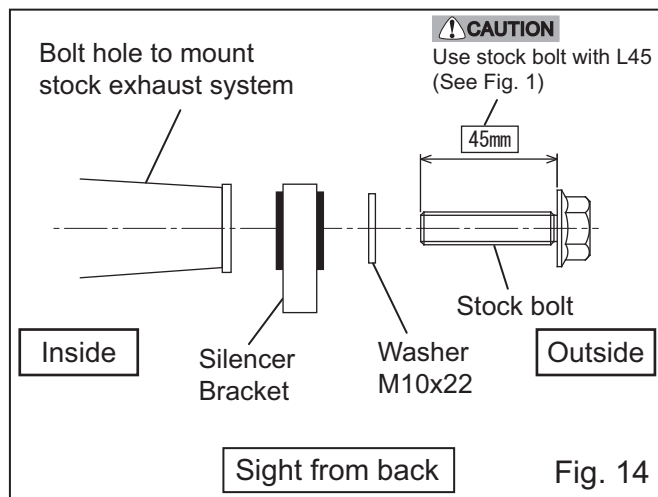
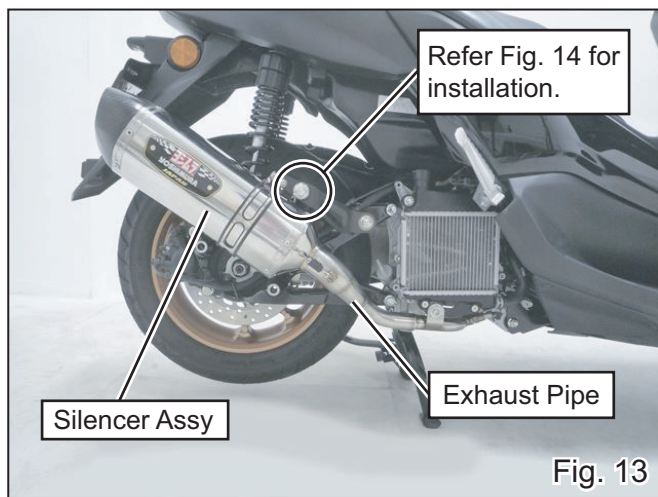
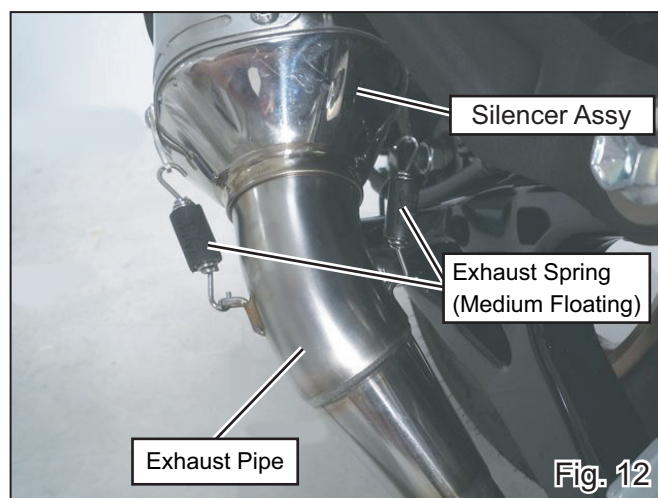


- 10) Mount Silencer Assy on Exhaust Pipe and install 2 of Exhaust Spring (Medium Floating). (See Fig. 12)

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

- 11) Mount Silencer Bracket with Stock bolt and Washer M10x22. Tighten bolt by hand only at this stage. (See Fig. 13 & 14)

CAUTION Use stock bolt with L45 (See Fig. 1)



- 12) Check from back, adjust angle of Silencer Assy and keep proper clearance between Yoshimura exhaust system and other components such as swing arm. Then, tighten and torque 2 of stock nut at exhaust port, Cap Bolt M8 on Exhaust Pipe Bracket, and Stock bolt and Button Bolt M6 on Silencer Bracket in order. (See Fig.15 & 16 on next page)

Tightening Torque	① Stock nut	: 15 Nm
	② Cap Bolt M8	: 23 Nm
	③ Stock bolt	: 28 Nm
	④ Button Bolt M6	: 10 Nm

CAUTION Torque specification must be followed.



Fig. 15

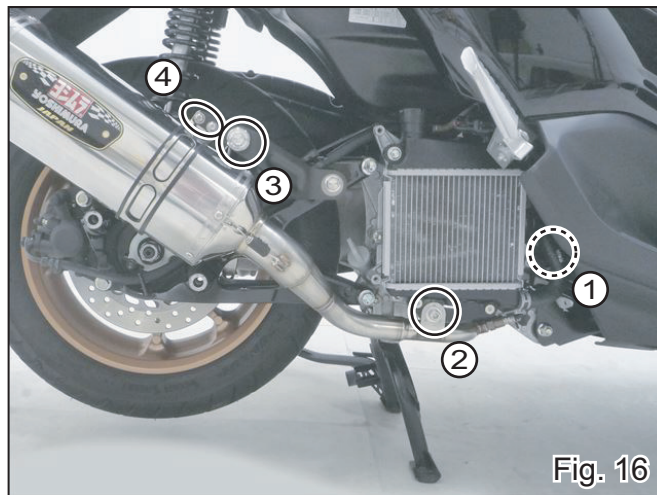


Fig. 16

- 13) Make sure to keep enough clearance between Yoshimura exhaust system and other components. In case there is no clearance, loosen bolts and readjust the position of Yoshimura exhaust system.

- 14) Locate O2 sensor wire as shown in Fig. 17, hook the wire at original position and reconnect coupler on vehicle.

CAUTION Be careful not to damage the O2 sensor when mounting. If neglected, it may cause serious damage.

CAUTION Do not pull or give tension to the wire to avoid any damage or brake in the cable.

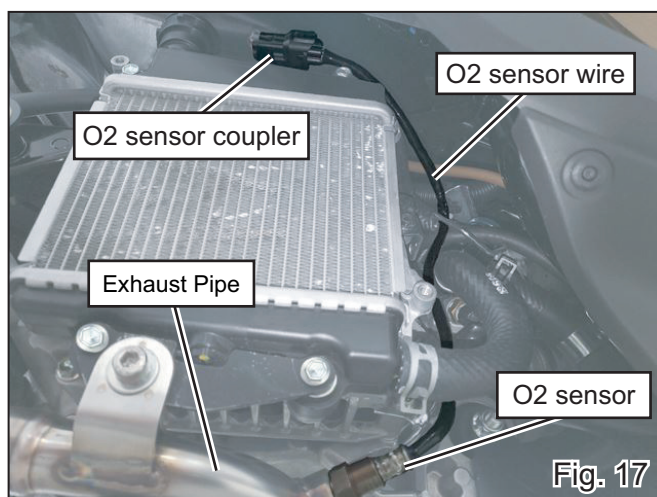


Fig. 17

- 15) It is recommended whole Exhaust System to be wiped down with dish soap to remove oil and fingerprints. This will prevent from tarnishing of finish after Exhaust System has heated up.

CAUTION When cleaning silencer, use soft cloth and 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.

- 16) Remount radiator cover which was removed at Step. 2. (See Fig.18)

- 17) Warm-up engine, and inspect the exhaust leaking. If "after fire" sounds severely, seal the gaps of joint with silicone gasket etc. Then, tighten all bolts further after engine has cooled down. If any problem is found, please follow through instruction steps carefully again.

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

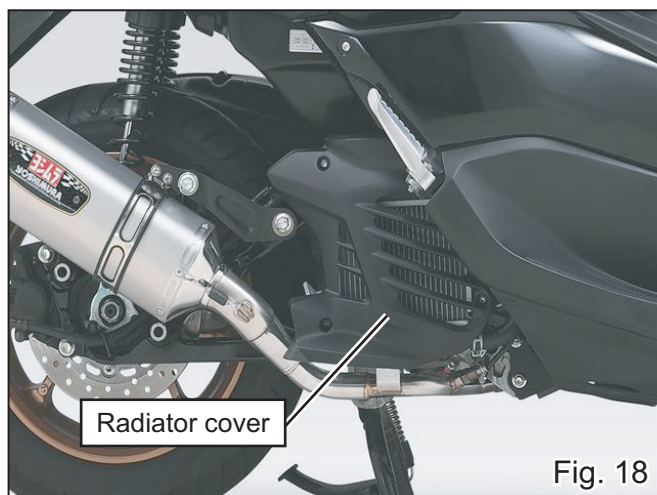


Fig. 18

After Installation : NMAX



After Installation : CYGNUS GRYPHUS



⚠ 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.

⚠ CAUTION

This exhaust is produced for street use only. In case that it is used on race circuit 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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