

Crankshaft Support Adapter Instruction Manual

Product number 01-10-0151

Adaptation model CRF110F (JE02-1000001 ~)

Thank you very much for purchasing our products.

Thank you so you will comply with the following matters at the time of use. Before installation, please check your always kit contents. If there is a point of notice event, Please contact us the dealer of purchase.

◎ If the description, such as photos or Illustration different with this part.

☆ Please read carefully before use ☆

◎ The use of ignoring the instructions that are written in the instruction manual, if an accident or damage has occurred, we can not assume any responsibility for compensation.

◎ This product installation and use, when a problem occurs to after market goods, guarantee other than this product, also can not assume any in any such matters.

◎ If it was the case or mounting that has been processed like a product, it will not be covered under warranty.

◎ It is not possible to inquire of the combination of other manufacturers.

◎ This product is the above-mentioned vehicle exclusive goods. Is not possible attached to the other vehicle. Please note.

◎ Product may have edges or protrusions. Be sure to wear working gloves.

(Please wear work gloves when working, even if a photo in this article show without work gloves.)

◎ When installing this product, be sure to refer to the original service manual for the applicable vehicle model listed above.

◎ To install this product, a special tool, rotor holder (our product number: 00-01-1001), is required.

◎ If the crankshaft has run-out exceeding the standard value, please perform work to remove the run-out or replace the crankshaft before installing.

~ feature ~

○ The flywheel attached to the end of the crankshaft is extremely heavy, and the shaft part is subject to stress such as twisting and bending. As the engine speeds up and outputs more, this burden increases further, creating a severe situation, and in some cases, damage to the crankshaft = damage to the engine itself You might invite it.

This product suppresses shaft deflection by increasing support with ball bearings at the end of the crankshaft on the flywheel side.

The crankshaft can be rotated smoothly up to high rotation speeds, increasing durability.

It suppresses vibration and substantially improves the mechanical performance of the engine, making it a widely effective product for everything from light tuning to high tuning.

Caution When the handling of ignoring this display, property damage and human shows the assumption of what injury.

■ When performing the work, etc., be sure during the cold (when the engine and the muffler is cold). (It may cause burns.)

■ When performing the work, it should be made to prepare the tools for the job. (Breakage of parts, it may cause injury.)

■ Do the work must always specified torque using a torque wrench. (Damage of bolts and nuts, and cause of dropout.)

■ The product and the frame, might have edges or protrusions. When working, please wear work gloves to protect your hands. (It may cause injury.)

■ Be sure to each part inspection before operation, check the loosening of the threaded portion, be sure to securely tighten the specified torque if there is loose. (It may cause detachment of the parts.)

■ Gasket always use new parts. Also, parts can be re-used may be checked, if wear or damage, it is always replaced with new parts.

Warning When the handling of ignoring this display people died, shows the contents of the serious injury possibility is assumed.

■ If you start the engine, be sure in a well-ventilated place. In the sealed such place, please do not start the engine. (There is a risk of carbon monoxide poisoning.)

■ During operation, when an abnormality occurs, immediately stop the vehicle in a safe place, please stop running. (It may lead to an accident.)

■ When performing the work, do the work safely stabilize the vehicle in a horizontal location. (There is a risk of injury vehicle collapsed while working.)

■ Inspection, maintenance, the instruction manual or, inspection methods such as service manuals, to protect the way, should be done correctly. (unsuitable inspection and maintenance, there is a risk that result to an accident.)

■ When carrying out the inspection and maintenance, etc., if found damaged parts, replace the damaged parts to avoid possible to reuse the parts. (There is a risk that lead to accidents Continued use.)

■ Plastic bags of product packaging, you can either be stored in a place that is out of reach of children, it should be discarded. (When the children or wearing, there is a risk of suffocation.)

◎ Please note. Performance up, the design change, the product and the price in the cost up, etc. are subject to change without notice.

◎ Please be informed that we shall be held harmless against any claim against us whatsoever arising out of use of the products in racing and the like.

◎ Keep this manual stored until this product is discarded.

SPECIAL PARTS
TAKEGAWA

CONTACT Address : 3-5-16 Nishikiorihigashi Tondabayashi Osaka JAPAN
TEL: +81-721-25-1357 FAX: +81-721-24-5059 e-mail: english@takegawa.co.jp URL: http://www.takegawa.co.jp
Please contact with your name and country name provided. (Only English please)



Number	Product content	Quantity	Item Number
1	Shaft nut	1	_____
2	Spring washer	1	00-00-0690 (3 pcs)
3	Ball bearing	1	00-00-0689
4	Bearing hold plate	1	00-00-0900
5	Socket cap screw, 6x25	3	00-00-0722 (5 pcs)
6	L. Crankcase cover gasket	1	00-02-0433

※ Please order in the repair parts are always repair part number. If it is not the part number order, you may not be able to order. Please be forewarned.
It should be noted, In the case of parts that can not be separately shipment, please order a set part number.
※ Repair parts may differ slightly from the kit contents in terms of shape, etc. There is no problem to use it. Please be forewarned.

■ Mounting procedure ※ Please refer to the Genuine Service Manual for detailed mounting methods and specified torques that are not specifically described.

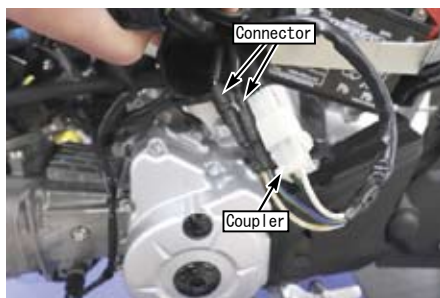
○ Remove the bolts and detach the gear shift pedal.



○ Refer to the service manual and remove the bolts at the circled locations, then remove the left side body cover.



○ L. Disconnect the 2P coupler and the two connectors of the harness coming out of the crankcase cover.



○ Drain the engine oil.
※ Prepare an oil receiver.

○ Remove the two bolts and remove the sprocket cover.



○ Loosen and remove the bolts in several steps, and remove the L. crankcase cover.
※ Pull the L. crankcase cover by magnetic force. Do not get your fingers pinched as the tension is applied. Be careful.



○ Remove the two knock pins and thoroughly remove any gasket remaining on the crankcase and the mounting surface of the left crankcase cover.

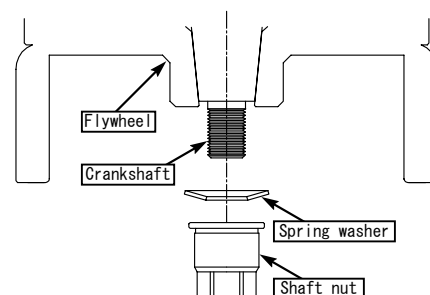
○ Fix the flywheel with the rotor holder. Remove the genuine nut and washer.



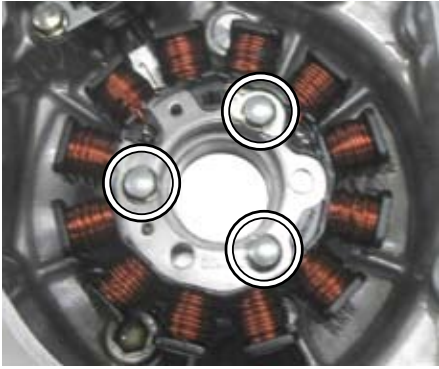
○ Attach the spring washer and shaft nut included in the kit to the crankshaft.
※ Install the spring washer in the direction shown in the diagram below.

▲ Note: Be sure that you protect specified torque.

Shaft nut
Torque : 40N · m (4.0kgf · m)

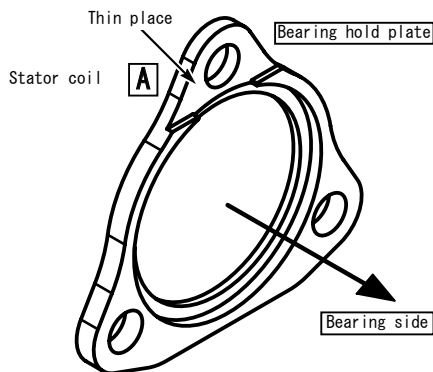
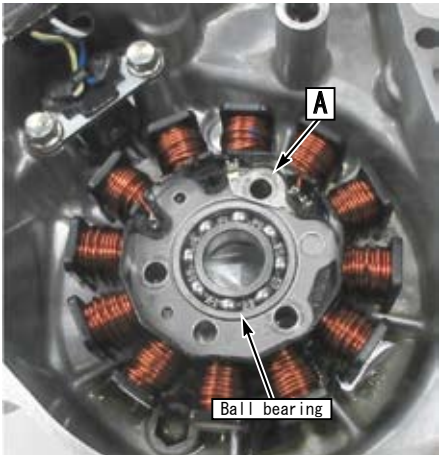


- Remove the three bolts that secure the stator coil to the L.crankcase cover.



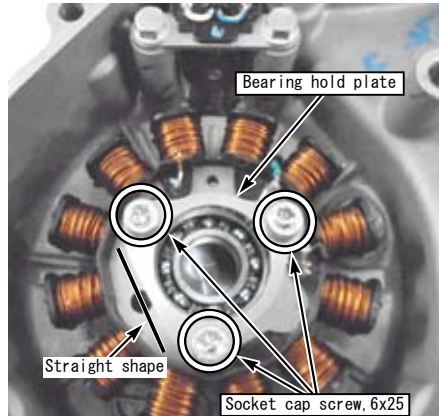
- Attach the ball bearing included in the kit to the center of the stator coil. Align the thinnest of the three bolt holes on the bearing hold plate with position A on the stator, and set it facing the bearing.

※ Apply engine oil to the bearing ball and inner race.



- Check the orientation of the bearing hold plate, and install the three 6x25 socket cap screws after applying thread locking agent.

⚠ Note: Be sure that you protect specified torque.
Socket cap screw
Torque : 10N · m (1.0kgf · m)



- Install the two knock pins and the L.crankcase cover gasket to the crankcase, and then install the L.crankcase cover.
- ※ Pull the L. crankcase cover using magnetic force. Do not pinch your fingers as there is a tension force acting on them. Please be careful.
- Attach the bolts to each clamp and tighten them diagonally several times.

⚠ Note: Be sure that you protect specified torque.
Flange bolt
Torque : 10N · m (1.0kgf · m)



- Attach the sprocket cover with two bolts.

⚠ Note: Be sure that you protect specified torque.
Bolt
Torque : 10N · m (1.0kgf · m)



- Pour in the specified amount of engine oil.

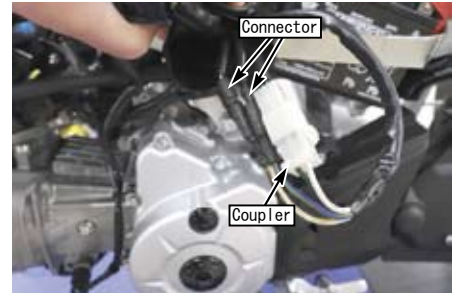
Engine oil amount

When changing : 0.8 l

(including when changing the oil filter)

Total capacity : 1.0 l

- Connect the 2P coupler and two connectors of the harness from the L.crankcase cover.



- Refer to the service manual and install the left side body cover.
- Install the gear shift pedal and fasten the bolt.

⚠ Note: Be sure that you protect specified torque.

Bolt
Torque : 12N · m (1.2kgf · m)



- Check each part to make sure there are no loose screws or nuts.
- Start the engine carefully in a well-ventilated, safe place and check that there are no oil leaks or strange noises coming from the engine. Stop the engine and check again with the oil level gauge after about one minute.

⚠ Warning : When inspecting with the engine running, always do so in a well-ventilated area. Do not start the engine in a closed area. (This can lead to carbon monoxide poisoning.)

