

Instruction Manual for Super Oil Pump Kit

Product number 01-16-0061

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|------------------|---------------|--|
| Adaptation model | Ape50 | (AC16-1000001 ~) |
| | Ape50 (FI) | (AC16-1600001 ~) |
| | Ape100 | (HC07-1000001 ~) (HC07-1600001 ~) |
| | Ape100 Type D | (HC13-1000001 ~) |
| | Dream50 | (AC15-1000001 ~) |
| | XR50 Motard | (AD14-1000001 ~) |
| | XR100 Motard | (HD13-1000001 ~) |
| | CRF100F | (HE03-2400001 ~) |
| | XR100R | (HE03-1000001 ~) |
| | NSF100 | |

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 ☆

- ◎ We do not take any responsibility for any accident or damage whatsoever arising from the use of the products not in conformity with the instructions in the manual.
- ◎ We shall be held free from any kind of warranty whatsoever of products other than this product if the glitch takes place on the other products than this one after the installation and use of this product.
- ◎ If you make alterations to the product, we shall be held free from any guarantee of the product.
- ◎ This kit is designed for exclusive use in the above-mentioned types of motorcycles and frame numbers only.
Please take note that this kit cannot be mounted on other types of motorcycles.
- ◎ Installation of this kit will require clutch cover removal and mounting. All what you have to work is to replace the genuine oil pump with kit's oil pump. Please do the work following the genuine service manual, which you are required to prepare beforehand.
- ◎ You are required to work correctly referring to the service manual for the above-mentioned applicable models. However, this instruction manual as well as genuine service manual is prepared with those in mind who have basic technical skills and knowledge. It is highly likely that those with little skill or knowledge will not be able to install this kit correctly or break the parts. So, it is advisable that those who do not have skills, knowledge, experience or tools contact a technically reliable specialist shop for installation.
- ◎ This kit includes just an oil pump only. Gaskets, packings, and O-rings, necessary for engine disassembly, are not included in this kit at all. Please prepare them separately to suit your engine.
- ◎ Please do not reuse the worn-down or severely-damaged bolts, packings, gaskets or the like. Be sure to replace them with the new ones.
- ◎ Never use this kit together with other manufacturers' products such as an engine, clutch, oil cooler and so on. Otherwise, combined use of parts will cause the parts breakage. We cannot be held responsible for any parts breakage caused by the combined use of this kit with other manufacturer's products.
- ◎ You are kindly requested not to contact us about the combined use of our products with other manufacturers'.

~ feature ~

- This is the reinforced oil pump kit for Ape-type engines,
 - with the pump discharge amount 25% more than the genuine oil pump for Ape 100, and
 - with the pump discharge amount 105% more than the genuine oil pump for Ape 50.
- This kit works to cool off the engine more by circulating more oil to the engine which has come to increase the heat release value as a result of tuning such as increasing displacement volume.
- By mounting our 5-disc reinforced clutch kit as well, the primary reduction gear ratio will be changed leading to an increase in the number of oil pump revolutions. Thus, the pump discharge amount can be increased further.

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

- Always try to drive your motorcycle at a legal speed, abiding by the laws.
- 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. Please go to protect your hands when you work. (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.)
- Be sure to always use the gaskets in the kit for oil pump body gaskets. If you use other gaskets than those in the kit, the engine oil does not get circulated all around the engine. And in some cases, this may cause engine to burn out.

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

- 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.)

- ◎ 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

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Please contact with your name and country name provided. (Only English please)



| Number | Product content | Quantity |
|--------|-----------------------|----------|
| 1 | Super oil pump COMP. | 1 |
| 2 | Flat head screw, 6x30 | 2 |
| 3 | Drill 2.5mm | 1 |

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

Before working, for safety's sake always place the vehicle upright and firmly with a maintenance stand or the like in a level safe place.

○ Fix this kit following the genuine service manual except for processing of the orifice, and replace the genuine oil pump with the kit's oil pump.

※ Before installation, apply engine oil to teeth of each gear and sliding surfaces.

● Orifice Processing

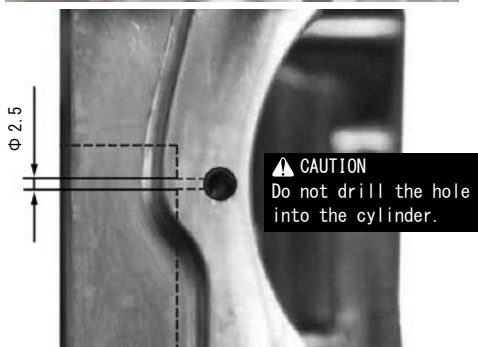
○ Widen the orifice hole on the right crank case to ϕ 2.5 mm with a kit's 2.5 mm drill and an electric drill. Cut the hole straight into the orifice only. Widen the orifice section only.

Widen the orifice to ϕ 2.5 mm regardless of whether you fix our 5-disc reinforced clutch kit (Item No. 02-01-0310) as well or whether you use a normal clutch.

⚠ CAUTION: To prevent any chip from dropping into the engine when processing the orifice, see to it that you work only after all parts have been disassembled, or cover the engine with a waste cloth.

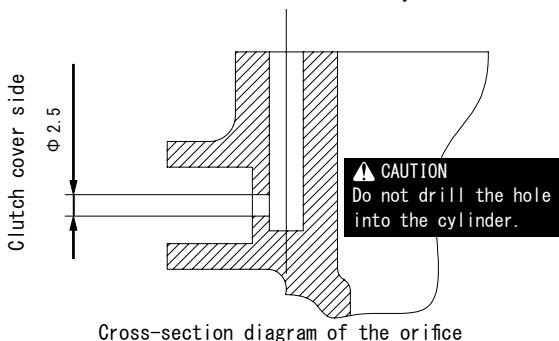
⚠ CAUTION: Process only the orifice. Cutting the hole deeper into the case will cause the low oil pressure on the head side, subsequently damaging the engine in some cases.

○ After processing, assembly work should be done with all the chips completely removed.



Upper orifice

a surface to be attached to a cylinder



Cross-section diagram of the orifice

● Super Oil Pump Installation

○ Unfasten two cover bolts on the genuine oil pump, and then remove the oil pump drive gear, the oil pump shaft, and the cover.

○ Install these oil pump drive gear, shaft, and cover to the Super Oil Pump.

If a 5-disc reinforced clutch kit (02-01-3-0310) is equipped as well, use the gear included in the reinforced kit as the oil pump drive gear instead.

○ Install and tighten two cover bolts.

⚠ Note: Be sure that you protect specified torque.

Cover bolt

Torque : 5N · m (0.5kgf · m)

○ Rotate the oil pump drive gear by hand and check that it rotates lightly.

If nothing wrong is found, apply engine oil to the rotor of the oil pump.

○ Attach an O-ring, to which engine oil is applied, to the crank case side.

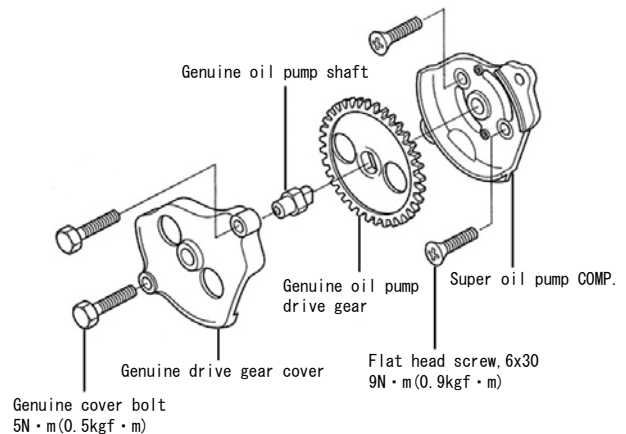
Then install the oil pump to the crank case by tightening the M6x30 flat screws.

(If the type of your vehicle is the Ape50, always use the M6x30 flat head screw.)

⚠ Note: Be sure that you protect specified torque.

Flat head screw

Torque : 9N · m (0.9kgf · m)



○ Install the right crank case cover.

○ Pour engine oil up to the upper limit on the level gauge, because changing the oil pump to the Super Oil Pump increases the oil discharge amount from the pump more than the normal pump.

● Before Starting the Engine

○ Loosen the oil-check bolt on the upper left of the ignition plug of the cylinder head. Then, turning the main switch OFF, keep kicking the kick starter till the oil comes out from the oil-check bolt.

○ Tighten the oil-check bolt, wipe off the oil, and start the engine.