



Instruction Manual for Super Oil Pump Kit

Item No. : 0 1 - 1 6 - 0 0 6 1

Applied to:

HONDA

Ape50	(AC16-1000001 ~)
Ape50 [FI]	(AC16-1600001 ~)
Ape100	(HC07-1000001 ~)
Ape100	(HC07-1600001 ~)
Ape100 Type D	(HC13-1000001 ~)
Dream50	(AC15-1000001 ~)
XR50 Motard	(AD14-1000001 ~)
XR100 Motard	(AD13-1000001 ~)
CRF100F	(HE03-2400001 ~)
XR100R	(HE03-1000001 ~)

Thank you for purchasing one of our TAKEGAWA's products. Please strictly follow the following instructions in installing and using the products. Before fitting the products, please be sure to check the contents of the kit. Should you have any questions about the products, please kindly contact your dealer.

Please note that, in some cases, the illustrations and photos may vary from the actual hardware.

~ Features ~

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 TAKEGAWA's 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.

Please read following instructions before installation

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 HONDA's 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 HONDA's 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'.

**CAUTION**

The following show the envisioned possibility of injuries to human bodies and property damage as a result of disregarding the following cautions.

- Always try to drive your motorcycle at a legal speed, abiding by the laws.
- Work only when the engine and the muffler are cool. (Otherwise, you will burn yourself.)
- Prepare right tools for the work, and do the work in the proper and right way. (Otherwise, improper work could cause breakage of parts or injuries to yourself.)
- Always use a torque wrench to screw bolts and nuts tight and securely to the specified torque. (Improper torque could cause these parts to get damaged or fall off.)
- As some products and frames have sharp-pointed or protruding portions, please work with your hands protected. (Otherwise, you will suffer injuries.)
- Before riding, always check every section for slack in parts like screws. If you find slack ones, screw them securely up to the specified torque. (Or improper torque may cause parts to come off.)
- 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**

The following show the envisioned possibility of human death or serious injuries to human bodies as a result of disregarding the following cautions.

- When you notice something abnormal with your motorcycle while riding down a road, stop riding immediately and park your motorcycle in a safe place. (Otherwise, the abnormality could lead to an accident.)
- Before doing work, place the motorcycle on level ground to stabilize the position of your motorcycle for safety's sake. (Otherwise, your motorcycle could fall down and injure you while you are working.)
- Check or perform maintenance of parts correctly according to the procedures in the instruction manual or a service manual. (Improper checking or maintenance could lead to an accident.)
- If you find damaged parts when checking and performing maintenance, do not use these parts any longer, and replace them with new ones. The continued use of these damaged parts as they are could lead to an accident.)

Please be informed that, mainly because of improvement in performance, design changes, and cost increase, the product specifications and prices are subject to change without prior notice.

This manual should be retained for future reference.

~ Kit Contents ~



No.	Parts Name	Qty
1	Complete set of super oil pump	1
2	M6X30 flat head screw	2
3	2.5mm Drill	1

~ Installation Procedures ~

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 HONDA's 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

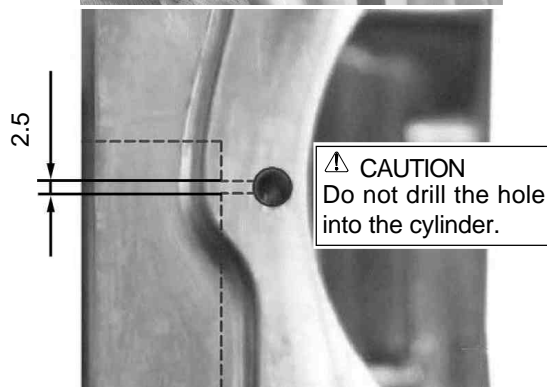
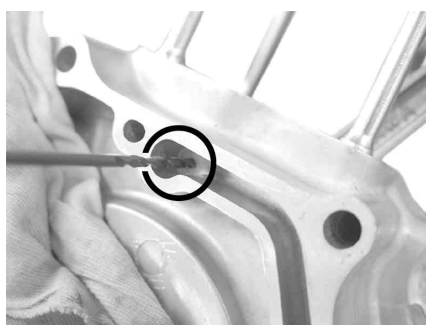
1. Widen the orifice hole on the right crank case to 2.5 mm with a kit's 2.5 mm drill and an electric drill.

Cut the hole straight into the orifice only. Widen the orifice section only. Widen the orifice to 2.5 mm regardless of whether you fix our TAKEGAWA's 5-disc reinforced clutch kit (Item No. 002-01-0301) 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.

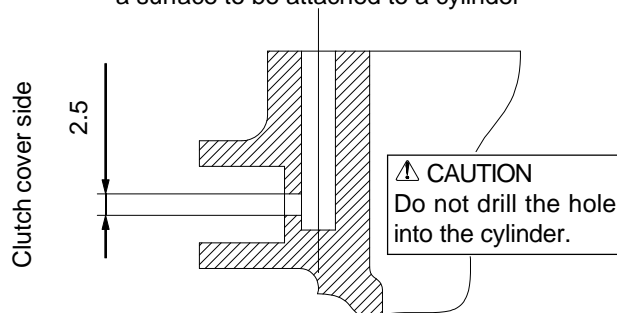
CAUTION: Process only the orifice. Cutting the hole deeper into the case will cause the low oil pressure on the head side, subsequently damaging the engine in some cases.

2. 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

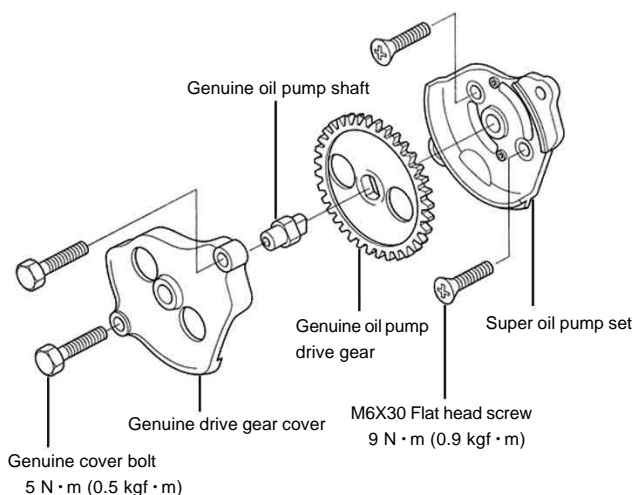
1. Unfasten two cover bolts on the genuine oil pump, and then remove the oil pump drive gear, the oil pump shaft, and the cover.
2. Install these oil pump drive gear, shaft, and cover to the Super Oil Pump. If a 5-disc reinforced clutch kit (002-01-3-0301) is equipped as well, use the gear included in the reinforced kit as the oil pump drive gear instead.
3. Install and tighten two cover bolts.

Torque: 5 N·m (0.5 kgf·m)

4. 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.
5. 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.

Torque: 9 N·m (0.9 kgf·m)

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



6. Install the right crank case cover.
7. 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

1. 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.
2. Tighten the oil-check bolt, wipe off the oil, and start the engine.

SPECIAL PARTS TAKEGAWA Co.,Ltd.

3-5-16 Nishikiorihigashi Tondabayashi Osaka Japan

TEL : 81-721-25-1357 FAX : 81-721-24-5059

URL : <http://www.takegawa.co.jp>