S-Stage+D KIT (106 cc/SCUT/Decompression)

Item No.: 01

Instruction Manual

Thank you for purchasing one of our products.

Please strictly follow the instructions to install and use the kit. Before installing the kit, please be sure to check the kit contents. If you have any questions about the kit, please contact your local TAKEGAWA dealer.

Please note: Illustrations and photos may vary from the actual hardware.

C 50-2100001 ~ 2299999 AA01-1000001 ~ 1699999 Not installable on PGM-FI models.

05

C 50-0200001 ~ 0999999

5314

Super cub 50 C 50-9000001 ~ 0095210 | Little cub C 50-4300001 ~ AA01-3000001 ~ 3999999

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~ Features ~

The camshaft with decompression will reduce a load on the transmission or kickshaft, and allows the engine to start with a lighter weight kick even though the engine is powered up such as bore-up to 106cc with our S-Stage (SCUT) Kit. Cylinder has an oil jet hole, which can lubricate and cool the piston and the connecting rod.

🛦 About fuel to use 🛦

This S-Stage Kit is so designed to achieve a higher compression ratio than stock engines. Therefore, high-octane gasoline should always be used. If you use regular gasoline, you cannot get the high performance of the Kit. Also the piston will be damaged and may lead to a serious failure of a motorcycle. Before installing this kit, make sure that no regular gasoline remains in the fuel tank. In case regular gasoline is remaining in the fuel tank, do replace it with high-octane gasoline.

About the spark plug 🕰 ∕

Be sure to replace a spark plug with a CR8HSA (NGK) or U24FSR-U(DENSO). In the case of a non-resistive plug, please replace with C8HSA (NGK) or U24FS-U (DENSO). Subsequently, choose and use a right spark plug with the right grade, depending on the carburetor set up.

About guick starting and sudden acceleration

Please note that sudden acceleration and sudden engine braking will put a heavy load on the engine, and that it may result in crank shaft and engine damages in the worst case.

🛕 Important notice about installation of this Kit 🛕

For the installation of this Kit, a heavy-duty centrifugal clutch (with 32 weights) and heavy-duty oil pump are needed. We disclaim all responsibility for consequential and incidental damages or any other losses arising from the use of the Kit, if your bike is not equipped with these additional hardware.

Read all instructions before starting the installation.

We do not take any responsibility for any accident or damage whatsoever arising from the use of the Kit not in conformity with the instructions in this Instruction Manual. Please drive safely and follow the local traffic law.

We shall be held free from any kind of warranty whatsoever of products other than this product if any defect takes place on the other products than this one after the installation and use of this product.

We do not have any information or service data on the combination of our products and other manufacturer's products.

Please note that this Kit is designed for exclusive use with the above-mentioned fitting models and frame numbers only and that it cannot be mounted on any other models. For installation, please prepare tools and work with reference to the installation procedures. Besides, this instruction manual, as well as a HONDA's genuine parts service manual, is prepared for persons who have acquired basic skills and knowledge. We recommend those who are technically inexperienced or without enough tools to ask a technically-reliable specialist shop for the installation work.

Bolts, nuts and dowel pins will be reused. However, be sure not to use the worn-down or severely-damaged ones, which please do replace with new ones,

If you use a stock carburetor, do not remove the air cleaner box or air cleaner elements. If you change the carburetor, please do the setting to match various conditions like weather and temperatures. Disregarding these instructions will result in engine troubles and serious accidents.

In some cases noise coming from the cylinder may sound louder than stock.

This Instruction Manual is prepared mainly for the Cub. Therefore, this Instruction manual has some contents not to apply to other vehicles.

Always use the supreme unleaded high-octane gasoline.

We recommend to install and use an oil cooler for riding at a high outdoor air temperature.

We highly recommend to upgrade the exhaust system and the carburetor to ensure the potential even though the stock exhaust system and stock carburetor are fine to ride.

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

- · Please drive safely and follow the local traffic law.
- Work only when the engine and exhaust system are cool to avoid burns.
- · Prepare appropriate tools and work properly to avoid the breakage of parts or injuries.
- · Always use a torque wrench to tighten bolts and nuts securely to the specified torque to avoid these parts getting damaged or loose.
- · As some products and frames have sharp edges or protruding portions, please work with your hands protected to avoid injury.
- · Before riding, always check such parts as screws for loose. If you find loose ones, screw them securely up to the specified torque to avoid parts coming off.
- NOTE: Be sure to re-tighten the cylinder head to the specified torque.

· Always use new gaskets and sealings. About the reused parts, please check carefully for wear or damaged and be sure to replace it with new ones if necessary.

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

- Always start the engine in a well-ventilated place, and do not turn on the engine in an airtight place. (Otherwise, you will suffer from carbon monoxide poisoning.) · When you notice something abnormal with your motorcycle, stop riding immediately in a safe place to avoid accidents.
- · Before doing work, place the motorcycle on level ground to stabilize its position for safety to avoid the motorcycle overturning.

· Check or carry out maintenance of your motorcycle correctly according to the procedures in the instruction manual or service manual.

(Improper checking or maintenance could lead to accidents.)

· If you find damaged parts when inspecting or performing maintenance of your motorcycle, do not use these parts, and replace them with new ones. (The continued use of these damaged parts could lead to accidents.)

• As gasoline is highly flammable, never place it close to fire. Make sure that nothing flammable is near the gasoline. Since vaporized accumulation of gasoline is at high risk of explosion, work in a well-ventilated place. (Otherwise it may cause a fire.)

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.

Lesson

Bolts and nuts will get loose when turned counterclockwise, and tighten when turned clockwise(some exceptions).

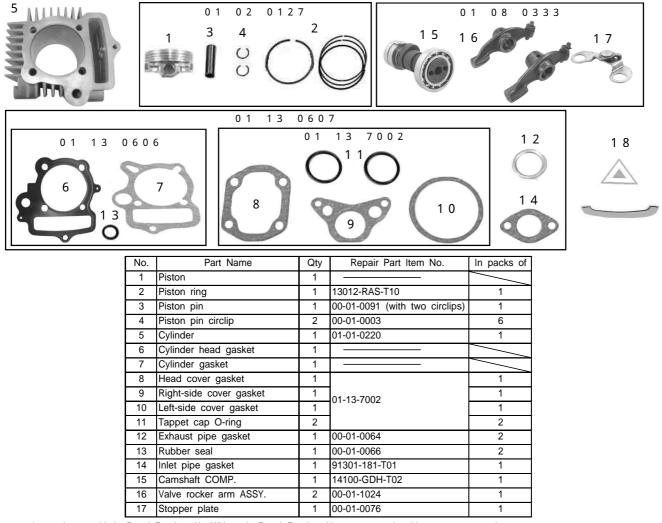
At the beginning, hand tighten a screw without using a tool. If it stops turning after giving it one or two turns, the screw may be fixed improperly.

To loosen a screw means turning a tightened screw three or four times to the counterclockwise, and to remove it means turning it until it comes off.

To tighten a screw means to screw it up to keep it from getting loose. The numeric value as a guide at which a screw will not break or get loose when tightened is the so-called "torque." If you do not have a torque wrench, please try to tighten a screw as tight as possible to the point where the screw will not break or get loose, though we can not take any responsibility for the breakage. In case you do not use a torque wrench, you need to judge, only by intuition or using experience, the degree of tightening power at which the bolt will break or get loose.

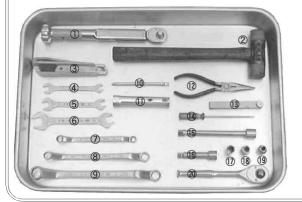
Improper use of tools will result in breakage of a top of a bolt or screw.

Kit includes:

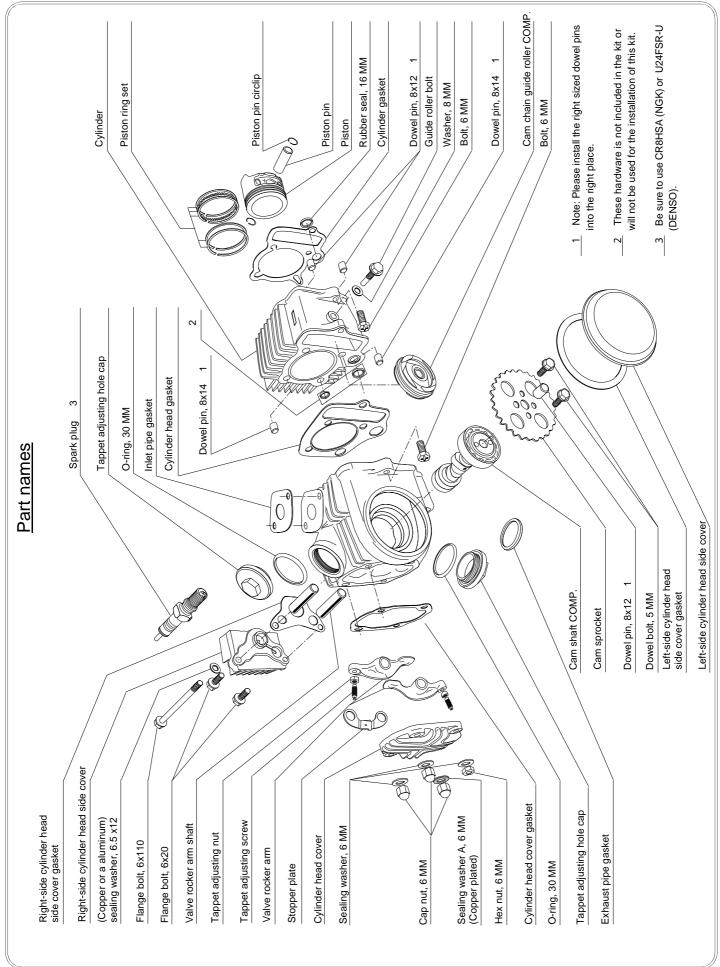


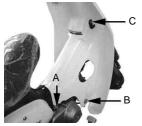
Please order repair parts with the Repair Part Item No. Without the Repair Part Item No., we may not be able to accept your orders. Some parts are only available as a set. In this case, please order them with the set number.

Tools to use for the installation



1	Torque wrench		Plug wrench (in-vehicle tool)	
2	Plastic hammer		Needle nose plier	
3	Cutter knife	13	Thickness gauge	
4	Open end wrench (10-12)	14	Small slotted screwdriver	
5	Open end wrench (12-14)	15	Extension (Medium size)	
6	Open end wrench (14-17)	16	Extension (Small size)	
7	Closed wrench (10-12)	17	Socket wrench (14 mm)	
8	Closed wrench (12-14)	18	Socket wrench (12 mm)	
9	Closed wrench (14-17)	19	Socket wrench (10 mm)	
10	Plug wrench handle (in-vehicle tool)	20	Ratchet wrench	





Unfasten the nut A (12mm cap nut) and the bolts B and C (10mm bolts) by turning them counterclockwise. Unfasten the washers as well. Do the same on the other side

Tools:

A: 12mm socket wrench & M-sized long extension B: 10mm socket wrench & M-sized long extension

C: 10mm socket wrench

Removal of standard hardware

1 . Remove the carburetor.



Turn off the gasoline cock at the lower left of the carburetor



Remove the fuel cock by turning two screws counterclockwise Tool

Phillips crewdrive



Remove two bolts by turning them counterclockwis holding the cylinder head and inlet pipe. Tool:





Remove the duct by pulling it upward.



Remove bolts on both right and left sides of the air cleaner by turning them counterclockwise Tool:





Remove the belt bundling wires together. Remove the carburetor ASSY. attached with throttle cables and choke cables, and hang them on the frontleft turn signal.

. Remove the exhaust system.



Remove two nuts on the exhaust pipe by turning then counterclockwise.

Tool to use: 10mm open end wrench

2



Remove the nut holding the exhaust system by turning it counterclockwise. Tool to use: 14mm closed wrench

Little cub

17mm closed wrench



Remove the exhaust system by pulling outwards. Do not lose the exhaust pipe gaskets.

3 . Remove the spark plug.



Remove the plug cap from the plug by pulling it out. Be sure to hold the cap when pulling it out. Remove the plug by turning it counterclockwise with a plug wrench in an in-vehicle tool

4 .Remove the cylinder-head left-side

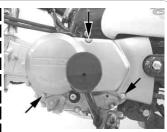


The left-side cover will remove when the hex bolt at the center of Right cylinder head cover is removed. In case the left-side cover cannot be removed, screw in the hex bolt by a few threads and tap the bolt head with a plastic hammer.

Tool to use 10mm socket wrench

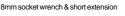


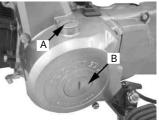
shift pedal by sliding it toward you. Tool to use: 10mm closed wrench



P ve the generator cover by turning three bolts counterclockwise. Tools to use

8mm open end wrench,





With electric starter models, remove the generator cover by turning both A and B counterclockwise. Tool to use: Slotted screwdriver

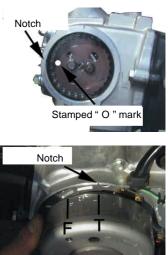
6 . Remove two tappet caps.



Turn two tappet caps counterclockwise to remove them.

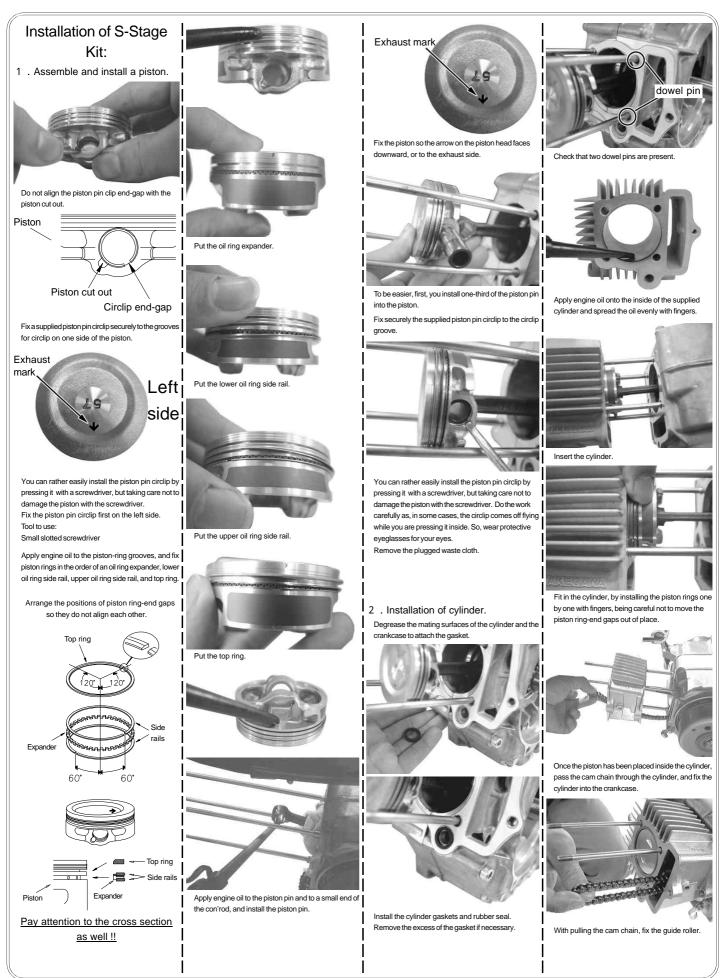
Tool to use: 17mm closed wrench

. Remove the cam sprocket. 7

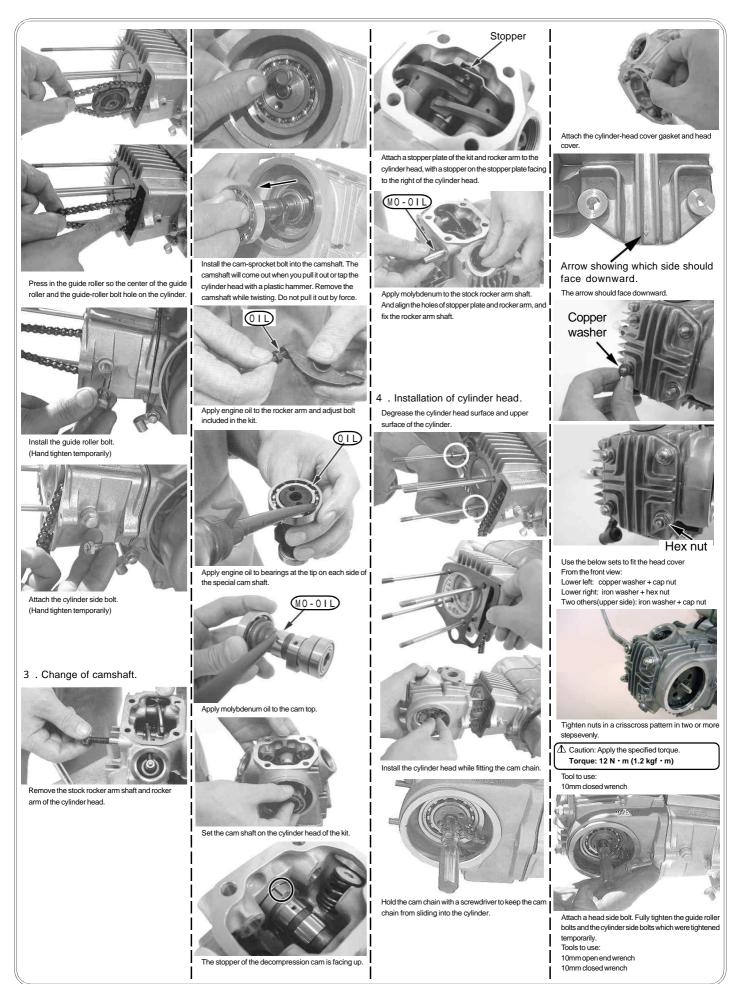


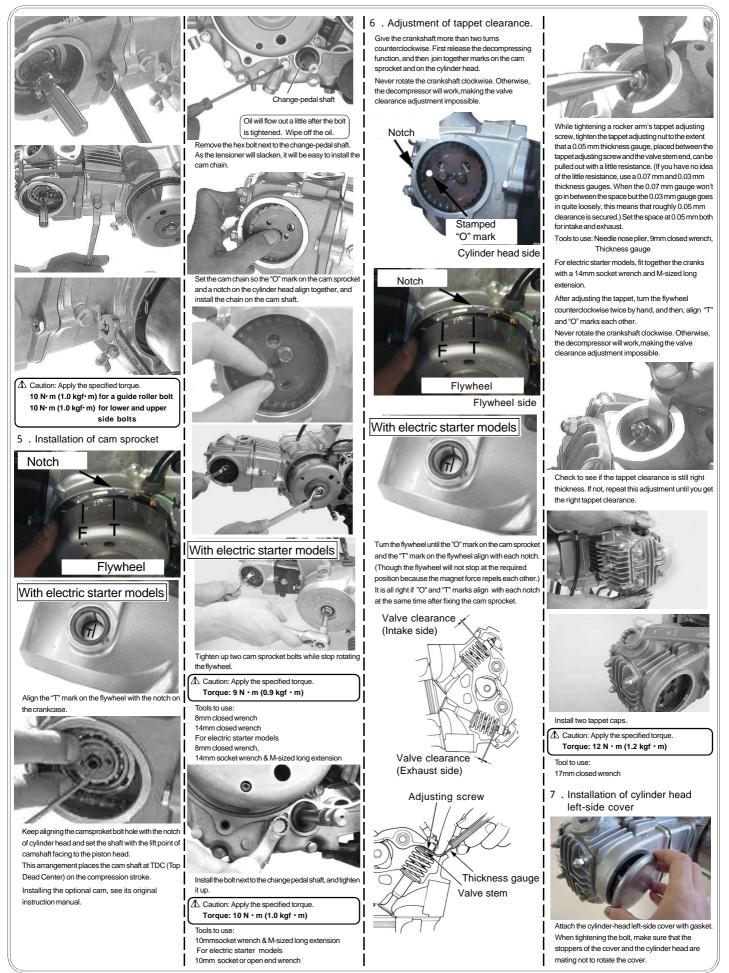
Flywheel



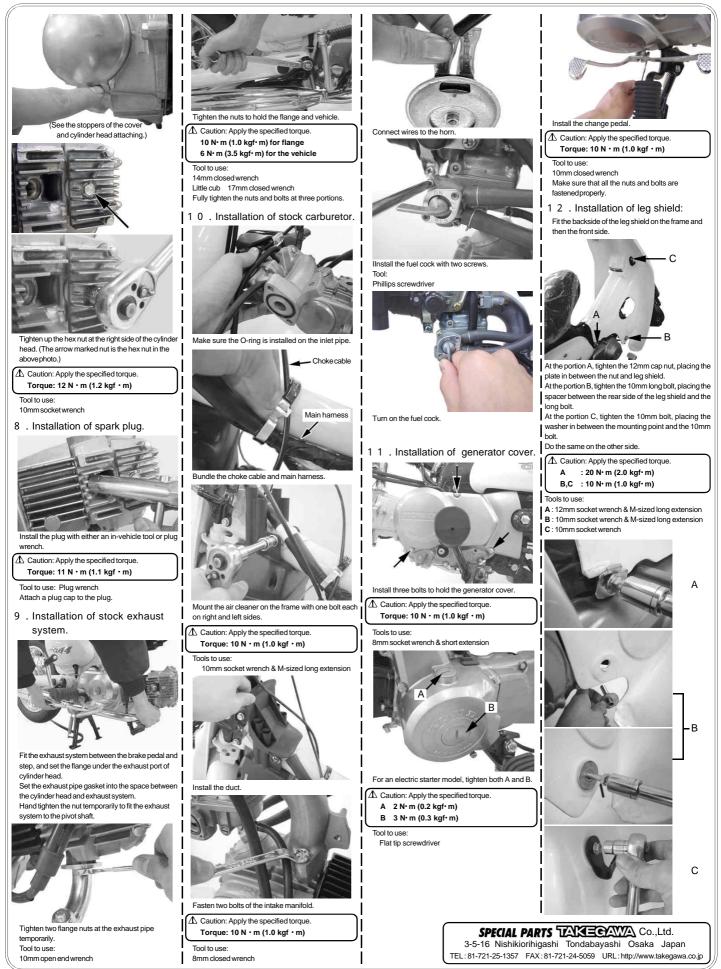


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Before riding:

1 About fuel:

Use High-octane gasoline ONLY.

If there remains regular gasoline in the fuel tank, always replace it with high-octane gasoline.

2 Additional hardware to be installed:

For driving your bike with this kit installed, the following hardware need to be installed additionally. We disclaim all responsibility for any consequential and incidental damages or any other losses arising from the use of the provided products or parts, if your bike is not equipped with these additional hardware.

2 1 Oil pump:

The installation of Super Oil Pump is essential in order to circulate large amounts of oil and to help cool down the engine which the output power and the heat increased.

Essential Super Oil Pump

Models	Part No.		
Super cub 50	01-16-0053 (with drill bit)		
Little cub	01-16-0052 (without drill bit)		

2 2 Clutch:

The stock clutch cannot respond to the high engine power, and, therefore, causes clutch slippage, and consequently cannot transmit the engine power fully to the rear wheel. Therefore, it is necessary to install our heavy-duty clutch such as our Special Clutch.

Models		Item Nos	
Super cub 50	02-01-0215	Heavy-duty Centrifugal Clutch Kit	Centrifugal Clutch Kit
Little cub		Heavy-duty Centindgal Oldten Kit	

3 Change of drive sprocket:

The installation of this kit will increase the power of your vehicle. So with the stock gearing, you will find it uncomfortable to drive your vehicle because the gear ratio is too low, and will cause severe wears of hardware, not only adversely affecting the engine life, but also possibly breaking the engine in the worst case. Therefore, please replace the drive and driven sprockets to make the gear ratio higher.

Please note that a driven sprocket is not included in the kit.

Furthermore, the gear ratio of the sprocket changes according to the clutch type and wheel size. The list below is just for your reference because the configuration in the list below needs to be changed according to the driver's weight and purpose of use.

When changing the driven sprocket, remove hardware around the rear wheel. Raise the rear wheel off the ground by placing a racing stand under the engine for working safely.

Recommended sprocket for use with S-Stage, SCUT (with a driver weighing 65 kg)

Models Specifications		Recommended Sprocket			
	Rear wheel size	Clutch	Transmission	Drive sprocket (Front)	Driven sprocket (Rear)
Super cub 50	ib 50 17 inch Centrifugal	4-speed	16	42	
Super Cub 30		Centinugai	3-speed	16	35
Little cub	14 inch	Centrifugal	4-speed	16	41 (Stock)
		Centinugai	3-speed 16	35	

When the stock sprocket is changed to the recommended driven sprocket, the drive chain becomes too long or too short. You need to either shorten the chain by cutting it with a chain cutter, or to prepare a new drive chain.

For best performance:

1 Carburetor

Higher power can be attained through the installation of Big Bore Carburetor Kit suitable for each model of a bike for the best performance of S-Stage.

Models	Part No.	
Super cub 50	03-05-039	
Little cub		

2 Exhaust system

Please install various kinds of TAKEGAWA exhaust systems for higher power output.

3 Oil cooler

As a longtime high-load driving will further increase the heat release value of the engine, we recommend you to install an Oil Cooler Kit which keeps oil at appropriate temperatures and prevents such troubles as oil film shortage at high temperatures.