

HIGH CAMSHAFT No. 1 /2

CODE	(TYPE1) 300-1432000	(TYPE2) 300-1432010
APPLICATION : GROM (JC61/75) / MONKEY 125 (JB02) / CT125 HUNTER CUB (JA55)		






ATTENTION

- Please use injection controller (i-map) sold separately for bring out the full engine performance.
- Fuel control setting is required in case of using product (other company's exhaust, etc) that is not pre-installed to i-map.

- Thank you for purchasing Kitaco product. Read and understand the instruction before installing.
- Specified tools sold separately are required to install this product.
- After installation, please use this instruction sheet as setting manual.
- ※ Repair parts are not attached instruction sheet, please keep this safe.

ATTENTION (MUST READ)

- Race use only. Note that racing parts are not covered under warranty. Installed vehicles cannot ride on the general public road. We are not responsible for violation of law or damages and accidents caused by assembling mistake and improper setting.
- It is required to make the right setting of i-map when use with other company's parts. If riding without the right setting, unable to improve the power and may cause of seizure and damage. Make sure to make the right setting for each engine.
- Follow this instruction sheet. Do not modify the way which is not listed or it will cause damage and trouble.
- Please ask authorized mechanic for assembling and setting. Ask a specialist at specialty shop if you do not understand the role of the surrounding parts.
- Please change engine oil after break in (around 100km). (Recommend engine oil : elf MOTO4 TECH)
- Bolts and nuts may get loosen by engine vibration. Make sure not to loosen any bolts and nuts before driving.
- Clean up each parts by parts cleaner, etc and use air duster to check whether the oil line is choked up.
- Oil each parts with engine oil when assembling.
- By installing this parts, the output characteristic is different from normal condition. Please power up brake, increase handling stability to match the output. Please ride carefully.
- Do not spark the plug outside cylinder for spark check. It will ignite and explode so be careful of it.
- Refer to the manufacturer service manual when installation.

	This instruction sheet is for the person who has basic knowledge for maintenance. Do not operate if you do not have skill and knowledge.		Toxic highly-volatile gasoline is used during operating. Be sure to ventilate the room. Do not operate for hours in a hermetically closed room.		FLAMMABLES Inflammable gasoline is used during operation. Do not smoke, etc.
	Do not touch the engine parts (cylinder, crank case, exhaust pipe, etc) right after engine operation.		Do not spark the plug outside the cylinder for spark check. It might cause of fire and explosion.		

CAM PROFILE

TYPE1	TYPE2
OVALVE TIMING DEGREE (When using stock cylinder head/with 1mm lifting reference value) IN VALVE OPEN : 7° BTDC / CLOSE : 36° ABDC EX VALVE OPEN : 37° BBDC / CLOSE : 9° ATDC ○Able to use with stock engine. ※No decompression function.	OVALVE TIMING DEGREE (When using stock cylinder head/with 1mm lifting reference value) IN VALVE OPEN : 8° BTDC / CLOSE : 46° ABDC EX VALVE OPEN : 40° BBDC / CLOSE : 12° ATDC ○Able to use with stock engine. ※No decompression function.

- REQUIRED TOOLS
- EACH GENERAL TOOLS
 - THICKNESS GAUGE (COMMERCIAL)
 - UNIVERSAL HOLDER [HONDA STOCK CODE : 077725-0030000]
- REPAIR PARTS

160727 M-T

KITACO
株式会社 キタコ
3-8-13 NAGATA,
HIGASHI-OSAKA,
OSAKA, JAPAN

OPTION PARTS (SOLD SEPARATELY)

	NAME	CODE	REMARK
ELECTRICAL	INJECTION CONTROLLER (i-map) after Ver.2.0	763-1432100	COUPLER ON SET
	PC INTERFACE CABLE	763-0500900	
INTAKE	BIG THROTTLE KIT FOR NEO CYLINDER HEAD	403-1432100	
EXHAUST	GPR MUFFLER type M-1	548-1432100	FNO,JC61-100000~1299999
	EXTREME-R MUFFLER	541-1444600	FNO,JC61-130000~ /JC75
RECOMMEND OIL	PANOLIN STREET 4T RACE 10W/50 1L	968-2996001	RECOMMEND ENGINE OIL
	elf MOTO4 PROTECH 5w40	968-2000021	

OPTION PARTS SPEC

INJECTION CONTROLLER (i-map) SPEC

- By changing i-map main unit DIP switch, able to choose recommendation map with Kitaco engine parts (several types).
- This controller cancel the rev limiter to bring out the full engine performance.
- Connect to computer with PC interface cable to write user original map ±40% compensation compared to stock injection amount by rev and accelerator opening.

ATTENTION TO INJECTION CONTROLLER (i-map)



Unable to deal with i-map pre-installed (set up) map in case of processing intake port and combustion chamber. In that case, please make user original map.

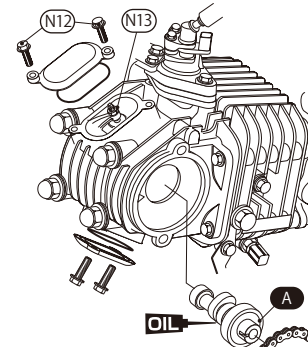
PACKING LIST

FIGURE	NAME	CODE	QTY	REMARK
A	HIGH CAMSHAFT TYPE1	300-1432000	× 1	No decompression function.
	HIGH CAMSHAFT TYPE2	300-1432010	× 1	
OP	TITANIUM NUT	303-1013711	× 2 ※	*Option parts

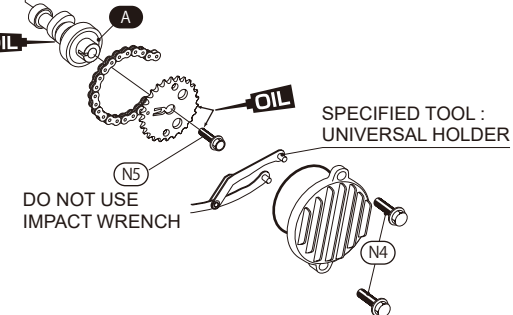
CYLINDER HEAD PARTS

Basically, reuse genuine parts if it is unattached. If there is a hard degradation like a blem, fatigue and wear etc on the reuse parts, please change to new ones. Clean up each parts before assemble.

	Refer to the remark and detail on the list.
	Apply engine oil.



TORQUE N · m (1kgf · m : 9.80665N · m)			
FIGURE	NAME	QTY	N · m
N4	L SIDE COVER BOLT M6x20	2	12
N5	CAM SPROCKET BOLT M8x22	1	27
N12	TIMING HOLE CAP BOLT M6x20	4	12
N13	ADJUST SCREW LOCK NUT	2	9.0



HIGH CAMSHAFT No. 2 /2

CODE (TYPE1) 300-1432000 (TYPE2) 300-1432010

HOW TO INSTALL/REMOVE CAM SHAFT SPROCKET

REMOVING

- 1) Remove cam sprocket cover, O-ring, crank shaft hole cap, timing hole cap and oil filler bolt.

INSTALLING

- 1) Set camshaft to compression top dead center, hang cam chain to cam sprocket with camshaft to compression top dead center and match cam sprocket "O" mark to cylinder head matching mark, then install temporarily to camshaft.
- 2) Turn crank shaft to counter clockwise to match fly wheel matching mark "T" and crank case matching mark, then move to compression top dead center to check cam sprocket "O" mark is matched to cylinder head matching mark. If it is not matched, assemble cam sprocket again.
- 3) Fix cam sprocket by using universal holder (specified tool) to tighten cam sprocket bolt.
- 4) Pour 4.00cc engine oil to push rod from flange bolt (M6x18) hole, then tighten with new sealing washer and bolt.

VALVE CLEARANCE SETTING

- 1) Turn crank shaft to counter clockwise to match fly wheel "T" mark to crank case matching mark. Move Rocker arm to make sure piston is on compression top dead center. (Able to check by rocker arm hanging. If there is no play, please rotate crank shaft again.)
- 2) Insert thickness gauge between adjust screw and valve stem to check valve clearance between intake and exhaust.

●VALVE CLEARANCE STANDARD VALUE (COOL)

IN : INTAKE SIDE : $0.10 \pm 0.02\text{mm}$

EX : EXHAUST SIDE : $0.17 \pm 0.02\text{mm}$

ADJUSTMENT

- 1) Loosen lock nut and rotate adjust screw to adjust specified valve clearance.
After adjustment, fix adjust screw to tighten lock nut.
After tightened lock nut, check valve clearance again.

(TORQUE : 9.0N·m)

- 2) Check the each hole cap O-ring and change it in need. Apply engine oil to O-ring and install valve adjust hole cap, cam sprocket cover, crank shaft hole cap and timing hole cap.

(TORQUE CRANK SHAFT HOLE CAP : 8.0N·m / TIMING HOLE CAP : 6.0N·m)

ADJUST COMPRESSION TOP DEAD CENTER / VALVE CLEARANCE

Adjust valve clearance while compression top dead center (each matching mark are matched).

