

POWER DRIVE KIT	
CODE	APPLICATION
489-1155000	LEAD110 / EX (JF19) / ZOOMER X (JF52)
489-1427000	DIO110 (JF31)

●Thank you for purchasing Kitaco product. Read and understand the instruction before installing.

## ATTENTION (MUST READ)

- This parts is made exclusive for racing use. Note that this parts is not covered under warranty. Obey national and local laws and regulations.
- We are not responsible for violation of law or damages and accidents caused by assembling mistake and improper setting.
- 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.
- Do not modify the way which is not listed or it will cause damage and trouble. This product is precision machinery. Do not apply excessive force or disassemble.
- Refer to the manufacturer service manual when installation.
- By installing this product, output characteristic is different from normal. Please enhance the brake to match the power and improve steering stability. Please be careful of riding.
- Do not spark the plug outside of cylinder for spark check. It might cause of fire.



This sheet is intended for the person who has basic knowledge for maintenance. Do not operate if you do not have skill and knowledge.



Do not touch the engine parts (cylinder, crankcase, muffler, engine oil, etc) right after engine operation. Make sure to start the installation after the engine parts are completely cool.



High speed rotating part is included, must to install crankcase cover and tighten bolts firmly before starting engine.

SPEC	DESCRIPTION
	This is tuning parts of pulley and weight roller set that have shift function of scooter drive system parts. Considering strength, original roller guide is chosen. Ideal shift function is able to get. By using injection controller (i-map) that sold separately brings out full engine original performance by cancelling rev limiter.
	Attached weight roller setting might not match because of vehicle error, etc. At that time, please set up with Kitaco weight roller that sold separately. Generally, changing shift a little bit before engine maximum output is the best, but the best setting roller weight is changed depending on the favorite riding, vehicle condition and riders weight.
	In case of too much light weight roller cause of decrease maximum speed because unable to changing shift when reaches engine maximum rotating. Conversely, too much heavy weight changes shift before clutch meet, start→acceleration might be weak.
ATTENTION (MUST READ)	If the grease, etc is attached on pulley or face belt slide surface, it causes of changing shift failure. Must to clean up before installation.
	Weight roller and slider have lifespan. Check every 1,000km ride and if there is uneven reduction or break, please change to new one. (More tuning causes more consuming.)

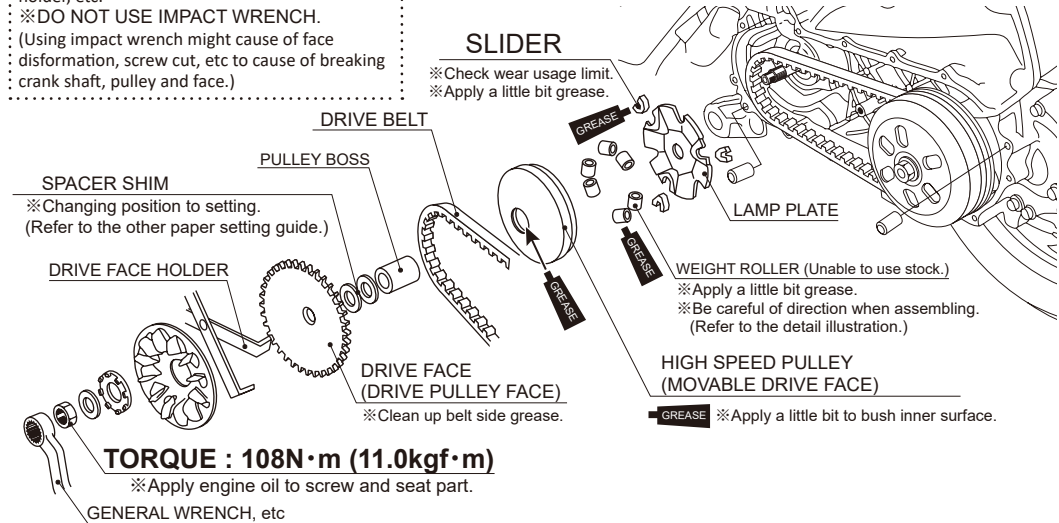
PACKING LIST		489-1155000	489-1427000	REMARK
NAME	CODE	QTY		
SUPER (WEIGHT) ROLLER (9.0g)	462-2106090	x6	-	LEAD/ZOOMER X *Unable to use stock.
SUPER (WEIGHT) ROLLER (11.0g)	462-2106110	-	x6	DIO110 *Unable to use stock.
MOVABLE DRIVE FACE type-X	488-1425001	x1	x1	
POWER UP PULLEY BOSS	463-1155000	x1	x1	
SPACER SHIM 15x22xT0.3mm	0900-463-90015	x1	x1	Refer to the other paper, power up pulley boss setting guide.
SPACER SHIM 15x22xT0.5mm	0900-463-90016	x1	x1	
MOLYBDENUM GREASE (5g)	969-0500480	x1	x1	
POWER UP PULLEY BOSS SETTING GUIDE	-	x1	x1	

OPTION PARTS (SOLD SEPARATELY)			
NAME	CODE	QTY	REMARK
INJECTION CONTROLLER (i-map)	763-1425000	x1	LEAD110
	763-1427000	x1	DIO110
	763-1155000	x1	ZOOMER X
DRIVE FACE HOLDER (FOR HONDA)	674-0500010	x1	Kitaco specified tool.
SUPER (WEIGHT) ROLLER SET (4.0~15.0g)	462-2106040 ~ 150	(x6)	0.5/1.0g step SUZUKI B type

- ※ Please refer to the service manual when installation.
- 1 Park vehicle to flat space. Remove L crankcase cover (and outer cover).
- 2 Fix pulley side (front side) movable drive face / drive pulley face by drive face holder, then remove nut. Remove pulley boss, lamp plate (pushing back side lamp plate to remove).  
★Specified tool : DRIVE FACE HOLDER (674-0500010)
- 3 Change to high speed pulley type-X and attached weight roller. (At this time, drive belt is sandwiched to clutch side plate, make sure belt is down enough. If it is not down, pull plate to make space to belt down. By lowering drive belt to clutch side, it makes belt play and able to install drive face (when tightening center lock nut) correctly.)
- ※ Check the consuming parts (slider, drive belt, etc) usage referring to service manual, if its over, please change to new one.
- ※ When changing weight roller and slider, by applying a little bit pulley grease to decrease coefficient of friction and increase durability. (Recommend to use Kitaco pulley grease.)
- ※ Tighten center lock nut referring to service manual. (At this time, push drive face to touch pulley boss.)
- ※ Make sure crankcase cover gasket is not break.
- ※ After installation, if there is a strange noise during warm-up or riding, stop engine and check assembling part and each part.

- ATTENTION WHEN INSTALLING
- ★When installing, tighten with specified torque by using torque wrench, universal holder, etc.
- ※DO NOT USE IMPACT WRENCH. (Using impact wrench might cause of face deformation, screw cut, etc to cause of breaking crank shaft, pulley and face.)

※Illustration is LEAD110 developed view. Dio110 case shape is different, therefore knock pin position is different too. Please install other drive system parts in the same way.



Weight roller has a direction. Please set as stopper is back side of pulley rotating direction. Set with other direction may cause of inner falls.

Attached weight roller size is different from stock. Therefore unable to use stock one. Be careful of it.

