

**NCY Super Transmission Kit- GY6 50cc**

**Tools Required:**

- \*8mm Socket
- \*Strap Wrench
- \*Flat-head Screwdriver
- \*Torque Wrench
- \*Impact Wrench is recommended but not required.
- \* 19mm Socket
- \* 30mm Socket



Remove the bolts retaining the transmission cover.

Lightly tap transmission cover with a soft mallet to loosen it.

When removing, use caution not to tear the gasket.



Clean the transmission area with compressed air.

Remove the variator and clutch securing nuts with your impact driver or using your strap wrench.

**Use caution when using power tools as it is possible to strip the threads on the crank shaft.**



Remove the variator drive face and kick start washer.

Remove belt from transmission and inspect. Replace if necessary. (service limit width = 16mm)

Slide off variator, drive boss collar and pressure plate.



Remove clutch bell.

Pull clutch and rear drive pulley off of drive shaft.

Inspect drive shaft for any excessive wear and lateral movement.



With the rear pulley removed, apply pressure to the clutch and remove nut.

**Use caution when removing nut as the clutch could eject from the assembly causing injury.**



Remove clutch and contra spring.

Use a flat screwdriver or similar to pry lower spring seat from the base of the pulley.



Remove guide pins using pliers. Use caution as marring or gouging the pins will cause excessive wear.

Separate drive-face halves and install the supplied face half in its place. **Reapply grease when installing face half.**

**Note:** The sliding sleeve has two different angular sliding tracks. The

Re-install guide pins followed by supplied sleeve.



Assemble lower contra spring bearing collar and install onto sliding sheave.

Install supplied contra spring and clutch. Compress and tighten 30mm nut to 41ft-lb.

Install rear pulley onto drive shaft followed by clutch. Tighten nut to 27ft-lb.



Place supplied roller weights into variator and install backing plate.

Install drive boss and moveable drive half onto crankshaft.

Slide belt onto drive boss followed by drive face and kicks start washer. Tighten nut to 27ft-lb.



With transmission installed, start scooter and verify smooth, full operation of the transmission.

Install transmission cover gasket and transmission cover.

Tighten cover bolts to 5ft-lb and verify correct operation of kick start arm.