

Service Procedure for:
eGO[®] Cycle
Helio[™] Cycle



Secondary Drive Pulley Removal/Installation

Models
applicable:

EC-100 EC-200 EC-200EU EC-300

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TIME NEEDED:

60 minutes

SKILLS REQUIRED:

Basic Mechanical

TOOLS and EQUIPMENT REQUIRED:

Allen wrenches:

- 2mm
- 3mm
- 4mm
- 5mm
- 6mm

Open end wrenches:

- 8mm
- 10mm
- 12mm
- 13mm
- 15mm

Other tools:

Rubber Mallet
Vice or Vice Grips
roughly 5 inch long, 1/2 inch thick block
of wood.

PARTS REQUIRED:

Replacement pulley, thread locking fluid (medium strength)

OVERVIEW:

Follow rear wheel removal, battery removal, motor mount removal, motor removal instructions. Then, follow these instructions to remove the old pulley. After removal, install the new pulley, and re-assemble the vehicle following the motor removal, motor mount removal, battery removal and rear wheel removal procedures.

Preparation & Safety:

- Remove all jewelry
- Unplug eGO from AC outlet
- Always wear eye protection
- Remove key from ignition

PROCEDURE DESCRIPTION:

A) Remove the motor from the motor mount.

Follow step 'A' through 'F' of the '**Motor Replacement Procedure**'

B) Loosen and remove the shaft bolt and washer at the end of the pulley, using the 13mm wrench.

You will need to grip the hub of the pulley with pliers to prevent it from turning.

C) Pry the pulley off the jack shaft.

The pulley is press fitted to the shaft and will require some leverage to remove it. If you have a gear puller available, this process is very simple. Without a gear puller, follow these instructions.

Using a large screw driver, begin to pry the plastic pulley off of the jack shaft.

Using only a small amount of pressure, rotate the jackshaft and pry in multiple places around the pulley until it has moved about 1/4 - 1/2 inch.

WARNING: Do NOT use excessive force against the motor mount - this will bend the motor mount causing further complications.

Place a small piece of wood between the motor mount and screw driver and use the wood as a point of lever now. Continue to apply force in an even manner by rotating the pulley during the prying process. Continue until the pulley has been completely removed.

D) Install the new pulley.

Ensure the shaft is clean and smooth, free from dirt, corrosion, barbs, etc. A small amount of oil in the shaft will make installation easier.

Place the motor mount on its side with the empty shaft pointing up, and place the new pulley atop the jackshaft, with the hub closest to the mount.

Place a piece of wood on top of the pulley, and using the rubber mallet, tap the wood to slowly push the new pulley onto the jackshaft. **DIRECTLY HAMMERING ON THE PULLEY CAN DAMAGE THE NEW PULLEY.**

The pulley is fully seated when the shaft is only 2-4mm below the face of the

pulley hub. Once the new pulley is fully seated on the jackshaft, apply medium strength threadlocking fluid to the shaft bolt. Replace the washer and thread the bolt back into the end of the jackshaft. Tighten.

If your replacement pulley is aluminum you will find a small lock screw on the side of the new pulley. Using the 2 mm. allen wrench, tighten this screw into the pulley.

E) Install the motor and reassemble the vehicle.

Follow steps 'G' through 'K' of the 'Motor Replacement Procedure'

Testing:

Troubleshooting: