

Service Procedure for:

eGO[®] Cycle Helio[™] Cycle



Throttle Replacement

Models applicable:

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

Revision date: 06/04/2003 03:15:50 PM

TIME NEEDED:

SKILLS REQUIRED:

TOOLS and EQUIPMENT REQUIRED:

Allen wrenches:

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

Open end wrenches:

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

Other tools:

PARTS REQUIRED:

- Replacement throttle

OVERVIEW:

To replace the throttle, you will remove the dash pannel, disconnect the throttle wires, loosen the throttle grip clamp and remove the throttle. Then you will install the new throttle, clamp it to the handlebar and connect the throttle wires.

Preparation & Safety:

- Always wear eye protection during any service procedure
- Make sure the Key is REMOVED from the switch
- Make sure the AC charger cord is disconnected
- Remove all watches, rings, jewelry from your hands

PROCEDURE DESCRIPTION:

A. Remove the dash panel:

1. Remove the six machine screws from the sides of the dash panel using the 3mm allen wrench.
2. Remove Dash Panel and set aside to allow access to Contactor and Controller. (Do not disconnect any wires from the dash - the wires are long enough to allow you to set the dash aside the chassis without having to remove wires.)

B. Located and disconnect the throttle wire:

1. Identify the throttle wire as it passes from the outside to the inside of the chassis through the rubber grommet near the chassis neck.
2. Locate the small black connector on the throttle wire and gently disconnect the wire by pulling on the two ends of the connector

C. Remove the throttle from the handlebar:

1. Locate the two large phillips head clamp screws on the throttle housing adjacent the wire entrance on the throttle body. Using a phillips head screw driver, loosen the throttle clamp screws.
2. Using a small flat blade screw driver, lift the rubber gromet out of the hole in the chassis (leaving the throttle wire passing through it) and remove the throttle and wire from the vehicle.

D. Install the new throttle:

1. Place the new throttle grip over the handlebars (you may have to loosen the clamp screws to allow the throttle slide over the handlebar.)
2. Rotate the throttle body so the wire exits the throttle at the bottom of the handlebar.
3. After sliding the grip onto the bar until it stops - move the throttle outboard on the handlebar by 1/4 inch (0.75cm) to prevent the throttle grip from binding on the end of the handlebar.

4. Tighten the two throttle clamp screws using the phillips head screw driver.
5. Pass the connector end of the throttle wire into the open hole in the chassis until the grommet stops on top of the hole.
6. Using the small flat blade screw driver - push the lower flange of the grommet into the hole (push gradually moving around the grommet)
7. After the grommet is seated in the chassis, re-connect the end of the throttle wire to the small black connector in the chassis.
8. Adjust the length of throttle wire extending from the chassis to allow the handlebar to turn 90 degrees in each direction.

Testing:

E. Before closing the dash, insert the key in the ignition and turn the cycle on. With the back wheel elevated off the floor rotate throttle to initiate Motor/Belt response
(This will indicate proper wiring and NO open circuits)

F) Replace Dash Panel:

1. Replace the Dash on the chassis and align screw holes
2. Replace the six 3mm allen screws on the sides of the Dash, do not tighten until all screws have been positioned properly
3. Tighten the screws (Note: These screws do not need to be more than snug with the 3mm allen wrench.

Troubleshooting:

I have replaced the throttle but the eGO will not go when I turn on the key and rotate the throttle.

1. Re-check the throttle connections.
2. Confirm that the battery power wires are properly connected (see 'Battery Removal/Installation' procedure)
3. After turning the key on - check the LED indicator on the front of the Controller.
If flashing - see the Controller Diagnostic chart for next steps.
If the LED is not illuminated green, then the controller is either not receiving power from the batteries (check battery wiring and connections to the contactor and controller) or the controller has failed.