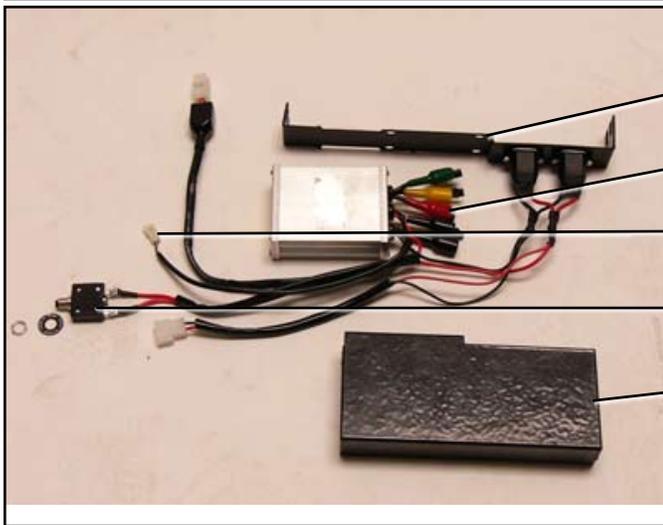


# Mechanic's Helper • Controller Replacement

## • Basic Description

The SX 600 has a highly advanced controller which supplies power to the motor, manages the batteries and monitors its own temperature as well as the motor temperature. The controller is easy to change and comes in an assembly called the controller cartridge. Renewing the controller cartridge effectively changes all the electronic connections, wiring and small components in one action eliminating the need to trouble shoot individual small parts.

## • Parts of the controller Cartridge



- Top panel
- Smaller plugs at front of controller
- Larger plugs at rear of controller
- Circuit breaker
- Controller sleeve

## • Procedure



1. Turn the scooter power off and remove both batteries.



2. Remove the four to six top screws with a 2.5 mm allen wrench.

# Mechanic's Helper • Controller Replacement

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## • Procedure continued

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3. Remove the two front bolts with a 3mm allen wrench.



4. Remove the two rear bolts with a 3mm allen wrench.



5. Withdraw the center panel and let it hang to the side of the scooter.



6. Unplug the five small connectors at the front of the controller

# Mechanic's Helper • Controller Replacement

## • Procedure continued



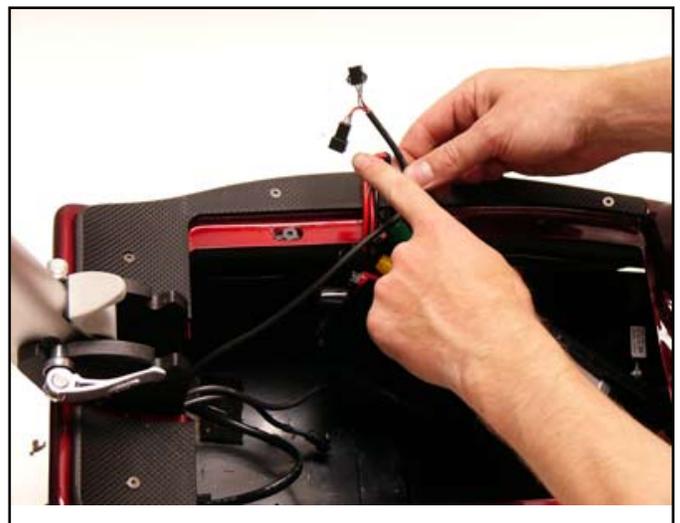
7. Unplug the three larger connectors at the back of the controller.



8. Unscrew the nut holding the circuit breaker in place and remove the circuit breaker.



9. Completely Remove the controller.



10. Installation is the reverse of the removal procedure. Note that there is an individual small plug with a red, brown and black color code that does not connect to anything on the controller. This plug is not used on the SX 600.