

# INSTRUCTION SHEET

## Yamaha Switch Replacement



**Please Carefully read and understand the following instructions before beginning this replacement.**

### Tools Required:

2.5mm Hex Key  
4mm Hex Key  
11mm Socket  
17mm Socket  
#2 Phillips Screwdriver  
Needle nose pliers

### Parts Required:

Switch Replacement Kit  
Yamaha Switch Assembly (Fig 1.1)  
Part # 133102  
Yamaha Adapter (Fig 1.2) 122337  
Part # 122337

Fig. 1.1



Fig. 1.2



**Note: Please remove the battery before performing any maintenance on the Xtender unit.**

**Note: Please refer to Part #107003 (Yamaha Plate assembly instructions) for removal of the Plate assembly.**

1. After removing plate assembly, (see note) use a 17mm socket and remove the nut securing the wheel-chair axle to the Xtender unit (Fig 1.3)

Fig. 1.3

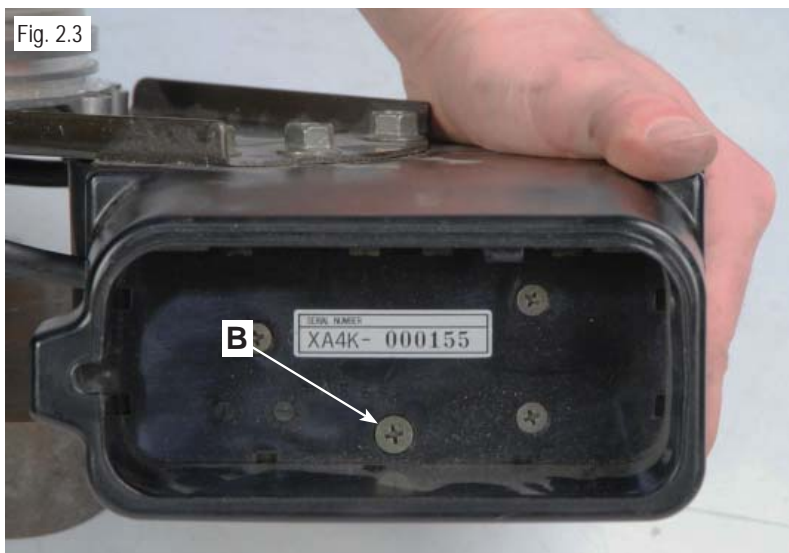
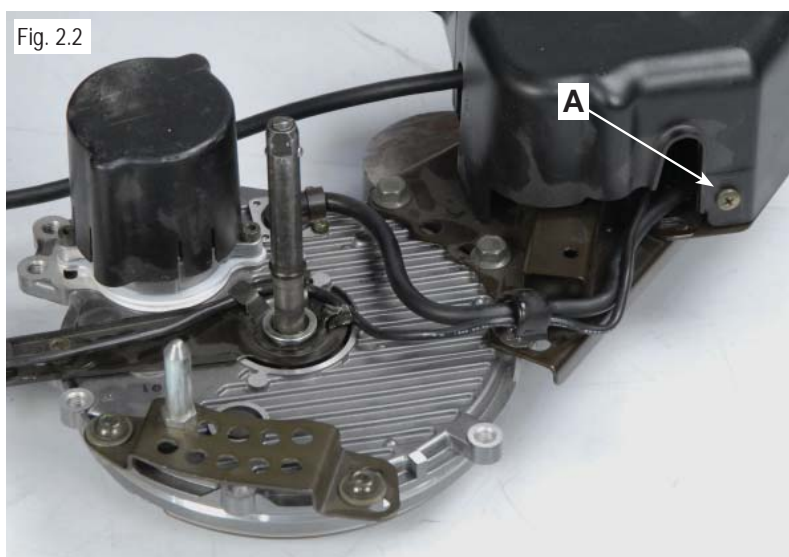


2. Once the axle nut is removed, the wheel assembly and motor assembly can be separated (Fig 2.1).



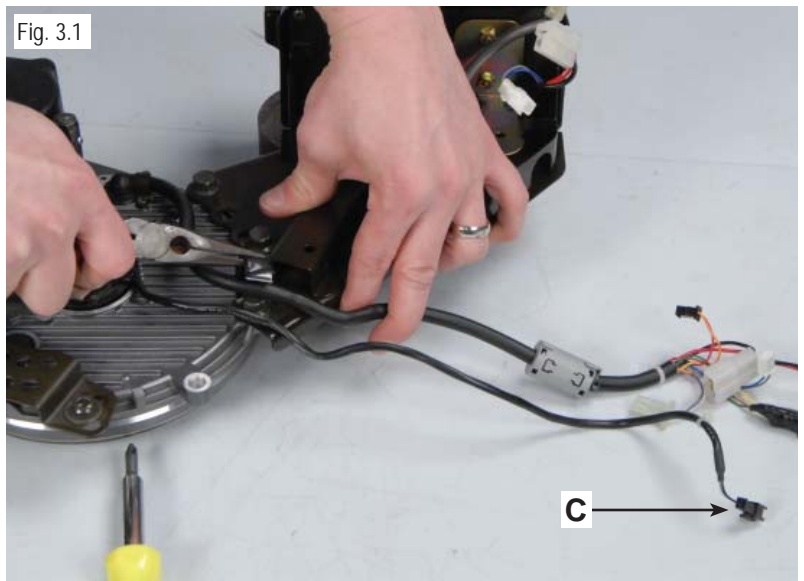
3. Set the Wheel assembly aside, and lay the motor assembly on a flat surface.

4. Using a #2 Phillips screwdriver, remove the 2 screws (A) & (B) that secure the battery cover shroud to the motor assembly. One is located on the bottom of the battery box (Fig 2.2) and the other is located inside the battery holder (Fig 2.3).



5. Locate the 2 wires that thread behind the battery cover. When removing the Switch Assembly, only unplug the small black connector (C) that attaches the Switch Assembly to the main harness (Fig 3.1).

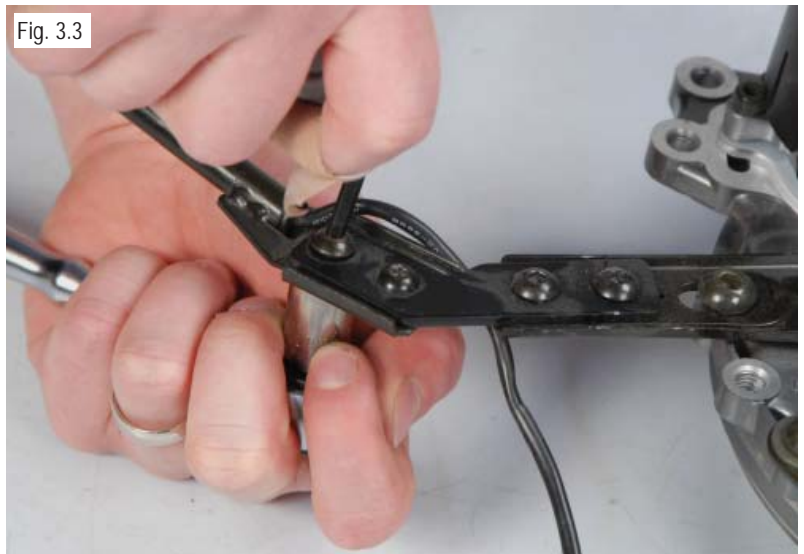
6. Cut any plastic wire ties that secure the smaller black wire. Using a pair of needle nose pliers, gently unbend the strap securing the wire (Fig 3.1).



7. Using a pair of needle nose pliers, gently bend the tabs that secure the cable around the Xtender Axle (Fig 3.2).

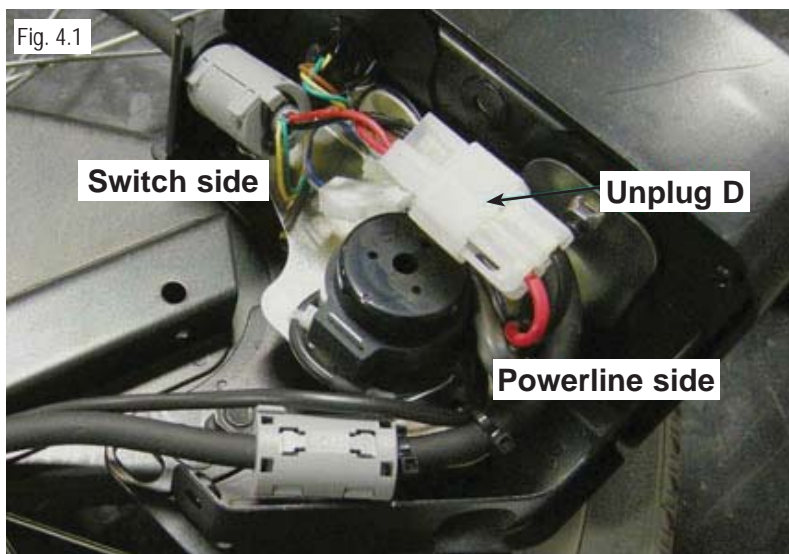


8. Using a 4mm Hex Key, and 11mm socket disconnect the the switch from the Xtender unit by removing the hardware, (2 sets) that secure the switch unit to the switch bracket (Fig 3.3).

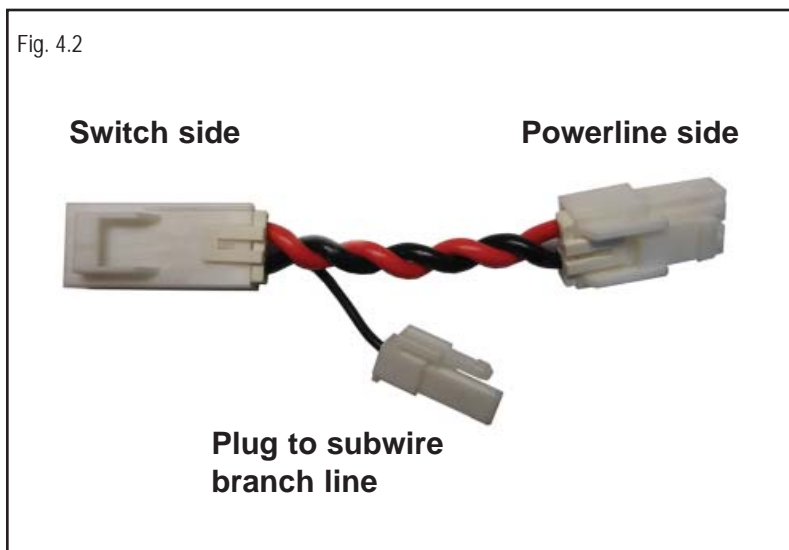


**\*\*Note:** Pay careful attention when disconnecting Power line, the battery has to be completely removed from the assembly for safe installation of the new switch and adapter.

9. Disconnect the Powerline connector (D) (fig 4.1).



10. Connect the adapter (Fig 4.2) to the power line side, then connect the new 2 plug switch connectors (Fig 4.3) to the matching plugs on the adapter (switch side).



11. Reverse Procedures 1-8 to Re-assemble the Xtender unit and Wheel.

