

# FX503 Installation Instructions for the Club Car PDP

## Before Installation:

- Place rear on jack stands (wheels off the ground)
- Use proper eye protection and tools when working with electrical equipment
- Disconnect the batteries

## Installation:

- Prepare heatsink using supplied mounting template.
  - Mount control using original motor control mounting bolts.
  - Connect all motor wires (refer to supplied wiring diagram for proper connection). **For IQ carts: remove the OBC ground wire from the terminal block and mount directly to B- of the control.**
  - For Regen I and IQ carts: Install supplied adapter harness.
  - For Regen II carts: Move pin 11 of the 23 pin connector to pin 17. (detailed pictorial instructions on how to do this can be found on FSIP website)
  - Connect the 23 pin connector to the new control.
  - Disconnect the On Board Computer plug and install the adapter harness.
- The wiring diagram on the following page is for a Regen II model.**



## Troubleshooting:

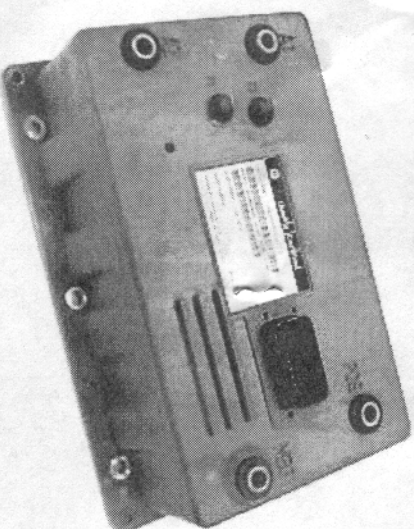
Perform all troubleshooting checks with rear wheels off the ground.

### Cart does not operate

- Verify that all wire connections are correct and secure.
- Verify that the Tow switch is closed. This can be done by measuring pin 1 on the control. If switch is closed this pin should measure close to battery volts.
- Verify battery volts on pin 2 of the control.
- Verify battery volts on pin 6 of the control with the key on.
- Verify battery volts on pin 3 of the control with the accelerator start switch closed.
- Verify that control is configured for the correct application (check label).

### Contacter closes but no movement

- Verify proper armature and field connections (Refer to supplied wiring diagram).
- Verify approximately 0.5V to 3.5V (Regen I) 3.5V to 0.5V (Regen II) on pin 7 of the control as the accelerator is slowly depressed.



Detailed pictorial instructions, templates, and wiring diagrams can be downloaded from the Golf Cart section of our website.

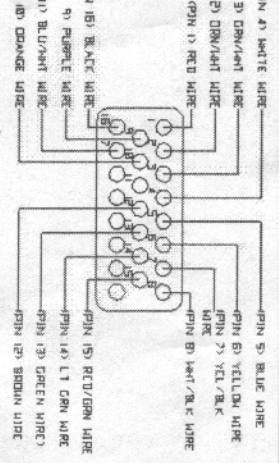
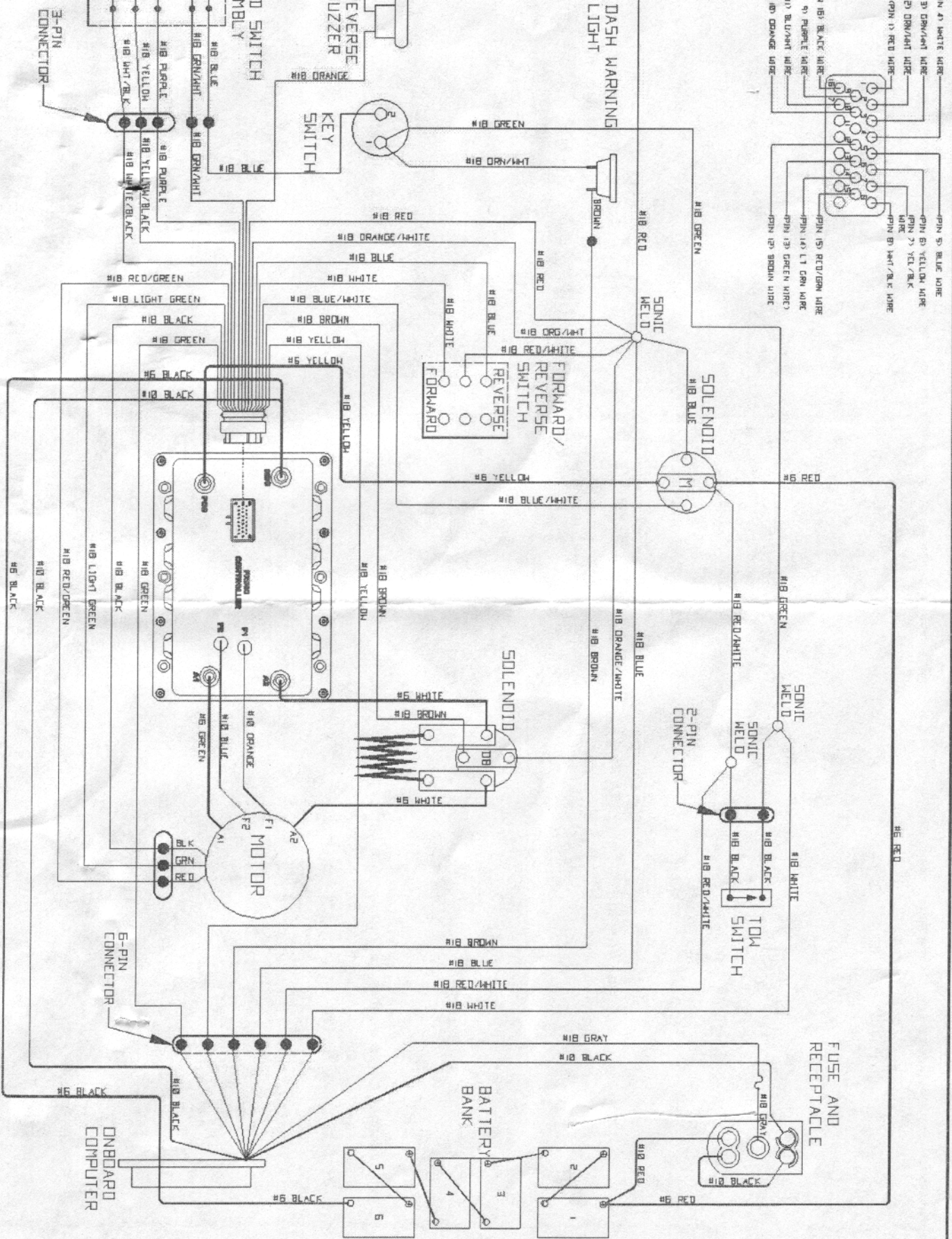
### Disclaimer:

Flight Systems Industrial Products is not responsible for personal injury or equipment damage due to misuse of the product.



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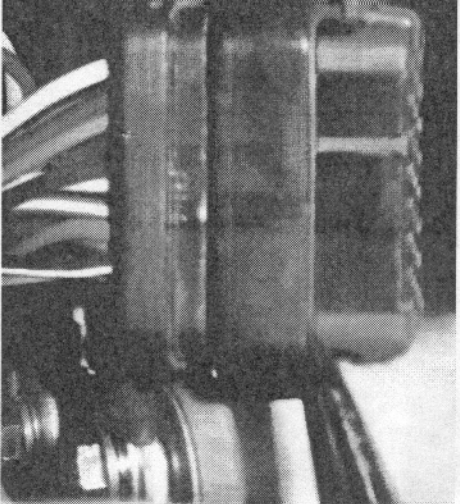
1015 Harrisburg Pike  
Carlisle, PA 17013  
Phone: (717) 254-3747  
Fax: (717) 254-3777  
Website: [www.fsip.biz](http://www.fsip.biz)



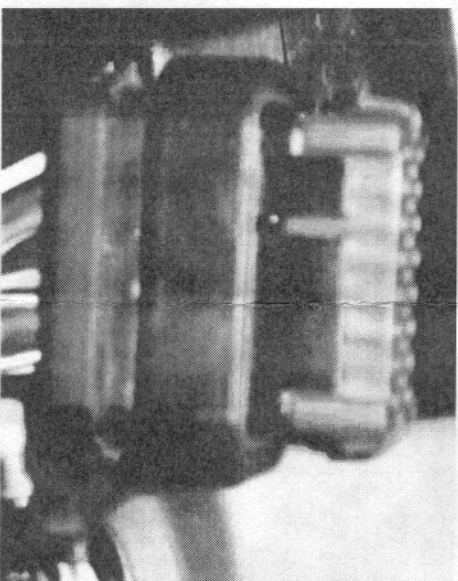


# Instructions for moving pin 11 to pin 17 of the 23 pin connector

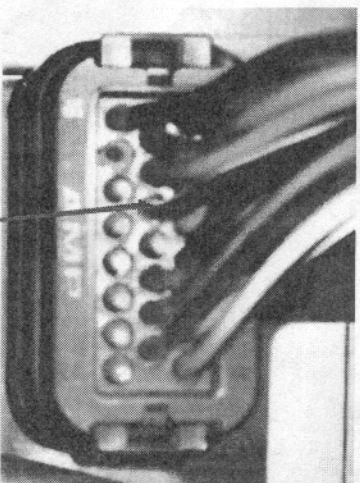
Try red insert (from opposite sides of the connector) up and away from black housing of the connector as shown in the pictures below.



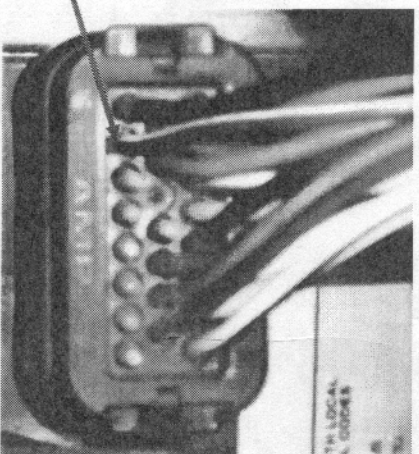
- Connector should then look like the picture below (notice that the red tab insert is now extended above the black housing of the connector, but not completely dislodged from the connector).



- With red tab insert extended from housing (as shown above) pull the blue/white wire (pin 11) from the backside of the connector. Pin 11 is shown below.



- Now insert the wire into Pin 17 as shown below.



Wire is now inserted into Pin 17.

# Mounting Template

After template is mounted to heatsink, drill this hole with a No. 7 (0.201") drill bit and tap to 1/4" X 20



After template is mounted to heatsink, drill these holes with a No. 7 (0.201") drill bit and tap these holes to 1/4" X 20



Punch/cut these holes out of the template. Mount template to cart heatsink using original motor control bolts.



After template is mounted to heatsink, drill these holes with a No. 7 (0.201") drill bit and tap these holes to 1/4" X 20

