

FX503 Installation Instructions for the Yamaha G19/G22



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:

1. Mount the control.
2. Connect all motor wires (refer to supplied wiring diagram for proper connection).
3. 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).
4. Connect the 23 pin connector to the new control.



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 and key switch are on. 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 pins 2 & 6 of the control.
- Verify approximately battery volts on pin 17 of the control.
- Verify zero volts on pin 3 of the control with no throttle.
- Verify battery volts on pin 3 of the control at full throttle.
- Verify battery volts on pin 4 and zero volts on pin 5 of the control when the forward direction is selected.
- Verify battery volts on pin 5 and zero volts on pin 5 of the control when the reverse direction is selected.
- Verify that control is configured for the correct application (check label).

Contactor closes but no movement

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



Disclaimer:

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

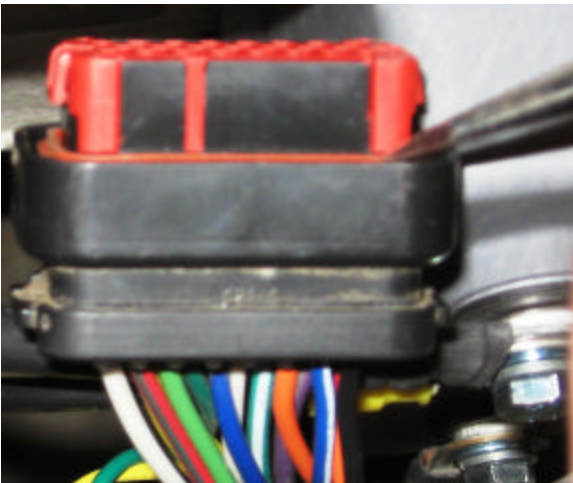


**FLIGHT SYSTEMS
INDUSTRIAL PRODUCTS**

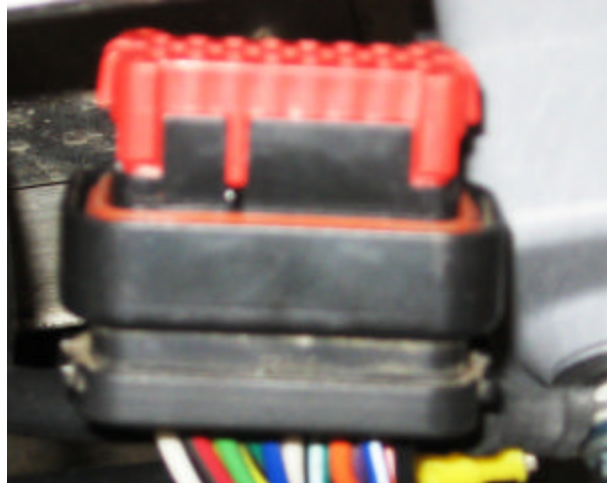
1015 Harrisburg Pike
Carlisle, PA 17013
Phone: (717) 254-3747
Fax: (717) 254-3777
Website: www.fsip.biz

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

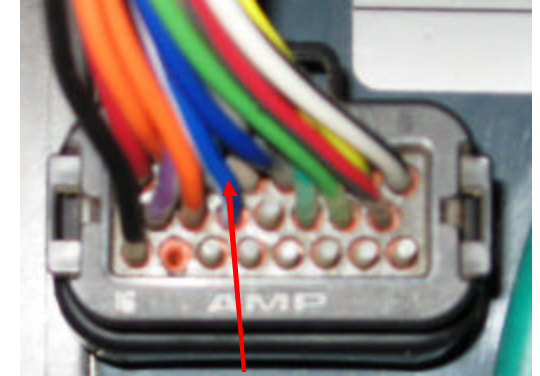
1. Pry red insert (from opposite sides of the connector) up and away from black housing of the connector as shown in the pictures below.



2. 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).

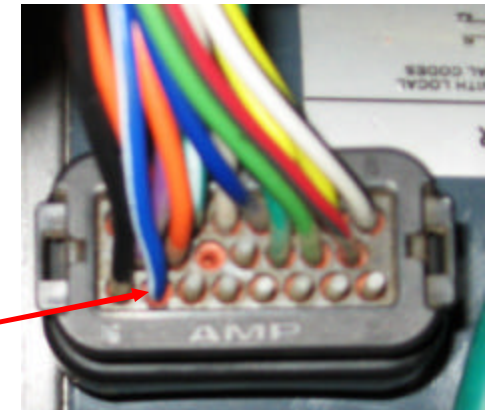


3. With red tab insert extended from housing (as shown above) pull the blue/white wire (pin 11) from the backside of the connector. Pin 11 is shown below (**wire colors in pictures may not match**).



4. Now insert the ^{Pin 11} wire into Pin 17 as shown below.

Wire is now inserted into Pin 17.



5. Push the red tab insert back into place.

