

# FX302 Installation Instructions for the Yamaha YDRE



## 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. Before removing the stock control, cut the A2 cable, leaving the negative cable in tact.
2. Now disconnect all cables from the stock controller and remove controller from cart.
3. Mount control using original motor control mounting bolts.
4. Re-crimp another ring terminal to the cut end of the A2 wire.
5. Connect all motor wires (refer to supplied wiring diagram for proper connection).
6. Install adapter harness.



## 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 11 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 4 of the control when the reverse direction is selected.
  - Verify that control is configured for the correct application (check label).
- ### Contactors 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.

COLOR CODE

B.....Black  
 L.....Blue  
 G.....Green  
 Y.....Yellow  
 R.....Red  
 P.....Pink  
 Br.....Brown  
 W.....White  
 B/R.....Black/Red  
 Y/B...Yellow/Black  
 R/Y.....Red/Yellow  
 R/W.....Red/White

1. PRECIOUS METAL CONTACTS ARE REQUIRED, TYPICAL SIGNAL IS 10mA
2. THE 26 POSITION WIRE HARNESS CONNECTOR PLUG PART NUMBER IS JAE MX23A26SF1, UNUSED CIRCUIT CAVITIES REQUIRE DUMMY PLUGS P/N M120-55780
3. OPTIONAL I.R. TRANSCEIVER NOT USED WITH THIS CONTROLLER, THEREFORE NOT SHOWN IN DIAGRAM

