

# 500-NP Installation Instructions for the Club Car PDPlus or Regen II



## 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 (Extra hardware may be required).
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 are on the following pages**).
4. Disconnect the On Board Computer plug and install the 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 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).

### Contactor closes but no movement

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



Detailed pictorial instructions, templates, and wiring diagrams can be downloaded from the Downloads - Controller Documents section of our website.

### Disclaimer:

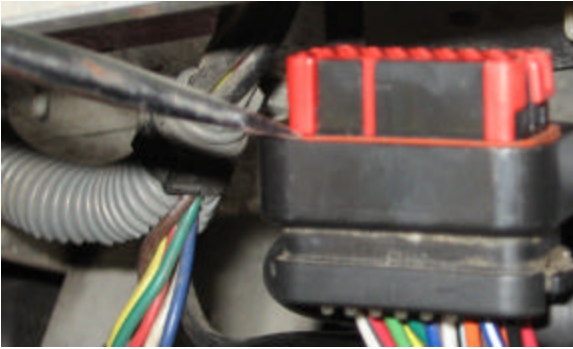
D&D Motor Systems, Inc. is not responsible for personal injury or equipment damage due to misuse of the product.

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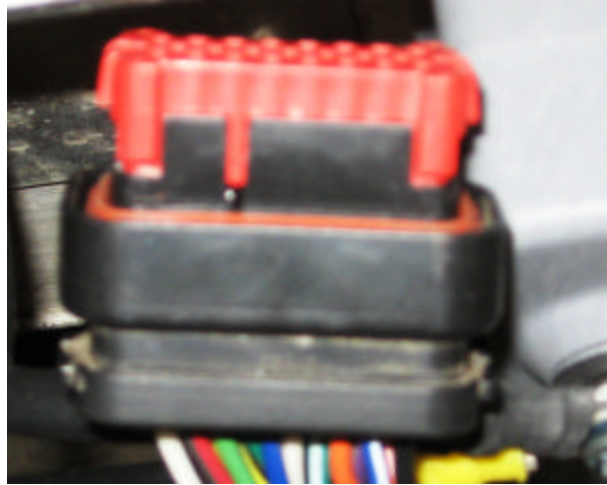
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Syracuse, NY 13204  
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# Instructions for moving pin 11 to pin 17 of the 23 pin connector

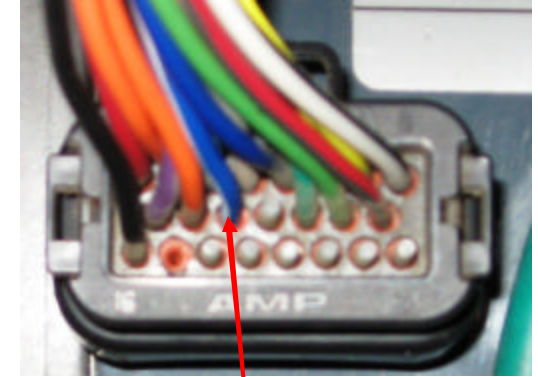
1. Pry red insert (from opposite sides of the connector) up and away from black housing of the connector as shown in the pictures below.



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).

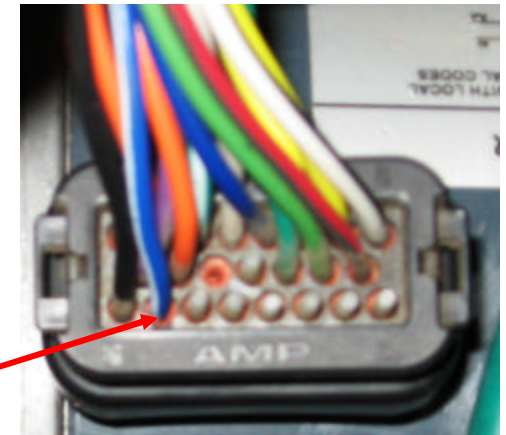
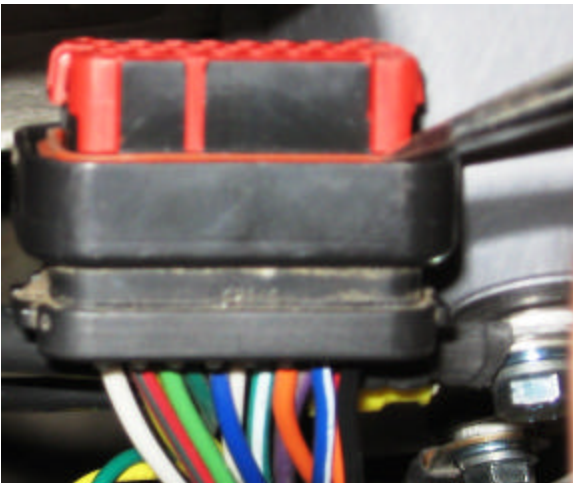


3. With red tab insert extended from housing (as shown above) pull the blue/white wire (pin 11) from the backside of the connector. Pin 11 is shown below.



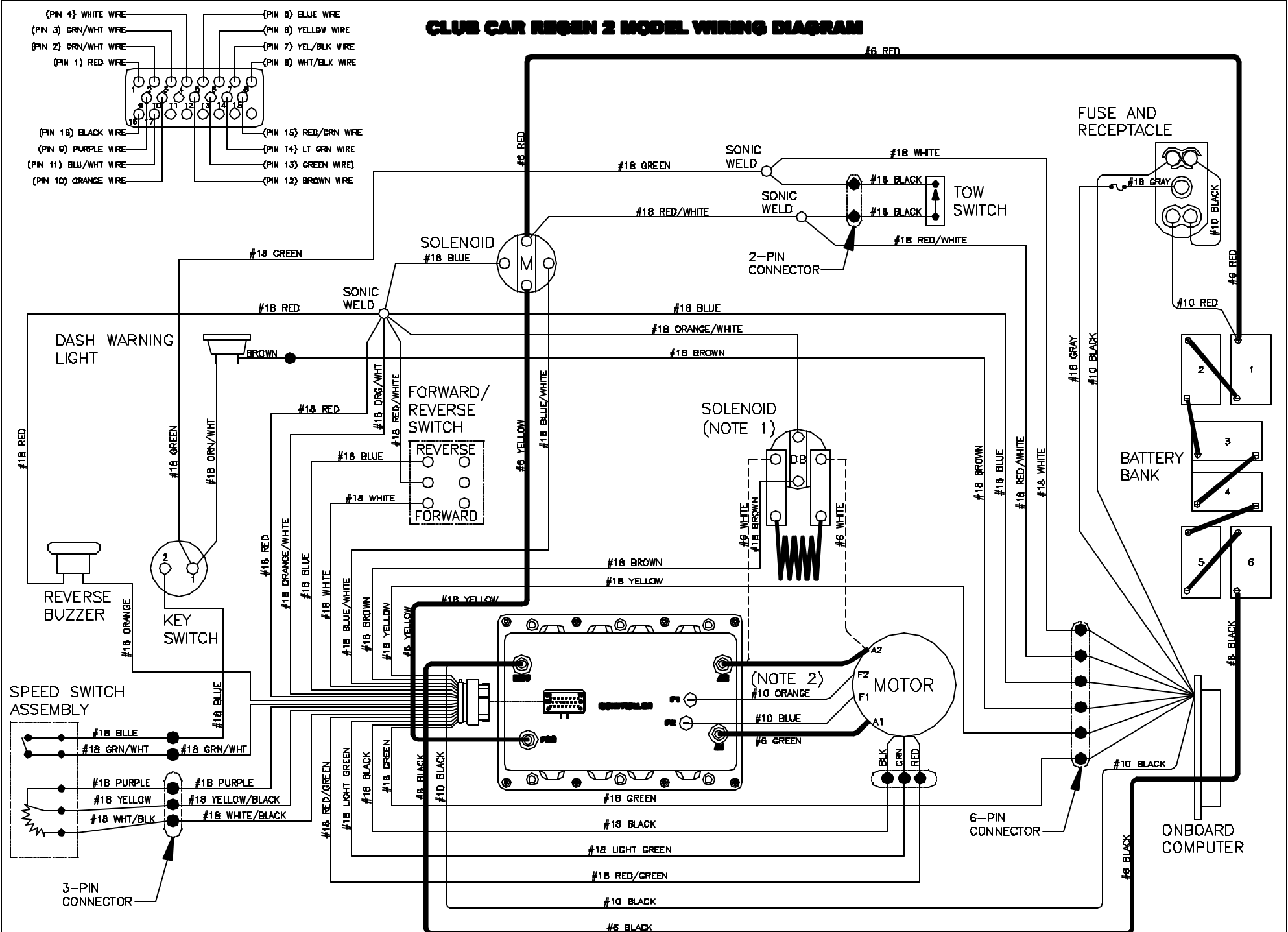
Pin 11

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



Wire is now inserted into Pin 17.

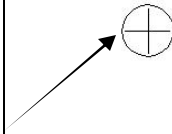
# CLUB CAR REGEN 2 MODEL WIRING DIAGRAM



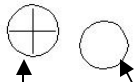
- NOTE:
- 1.) IF EQUIPPED WITH DYNAMIC BRAKING SOLENOID, REMOVE BOTH #6 WHITE WIRES. USING ONE OF THE WHITE WIRES, CONNECT A2 OF THE CONTROL TO A2 OF THE MOTOR. DISCARD THE OTHER WHITE WIRE (AS SHOWN BY THE DOTTED LINE).
  - 2.) CONNECT F1 OF THE MOTOR TO F2 OF THE CONTROL AND F2 OF THE MOTOR TO F1 OF THE CONTROL.
  - 3.) IT IS RECOMMENDED TO REPLACE ALL #6 WIRE WITH #4 OR #2 WIRE.

# 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

