

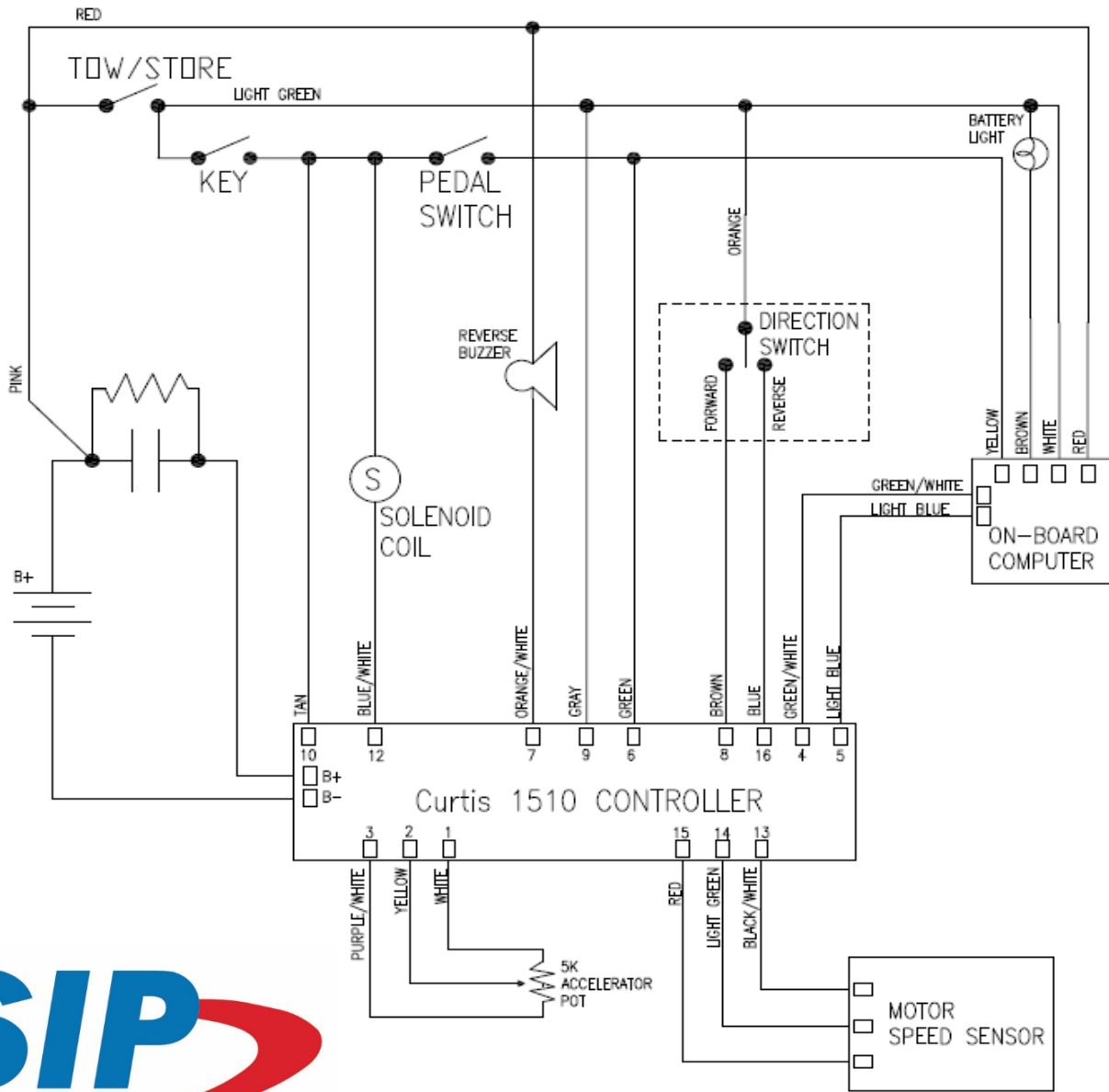
Club Car IQ Technical Information



Updated 6-2-17

Begin





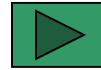
GENERAL WIRING DIAGRAM

Next



TECHNICAL ASSISTANCE

Solenoid Does Not Close



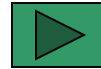
Solenoid Closes But No Travel



Vehicle Travels in reverse when in forward direction, and in forward when in reverse direction.



Solenoid closes and vehicle runs a few feet then quits



**PRIOR TO CONTINUED TROUBLESHOOTING THE
FOLLOWING STEPS MUST BE TAKEN**

1. POSITION THE CART ON LEVEL GROUND AND BLOCK FRONT TIRES TO PREVENT VEHICLE FROM ROLLING.
2. ELEVATE THE DRIVE TIRES FROM THE GROUND.

My vehicle is safely lifted from the ground.

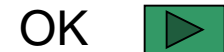


Back

1. Tow/Run switch in the “Run” position.
2. Key switch in the “ON” position.
3. Forward/Reverse selector in “Forward” direction.
4. Place Foot pedal switch in fully accelerated position.



Back



OK

Using a digital voltmeter with the Black Lead on battery negative, battery positive should be measured on the following pins of the controllers 16-pin wiring harness.

If battery voltage is not measured click the arrow of the corresponding wire.


PIN 10 – TAN WIRE 

PIN 8 – BROWN WIRE 

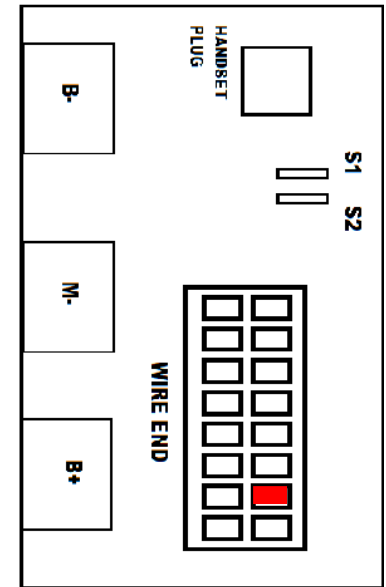
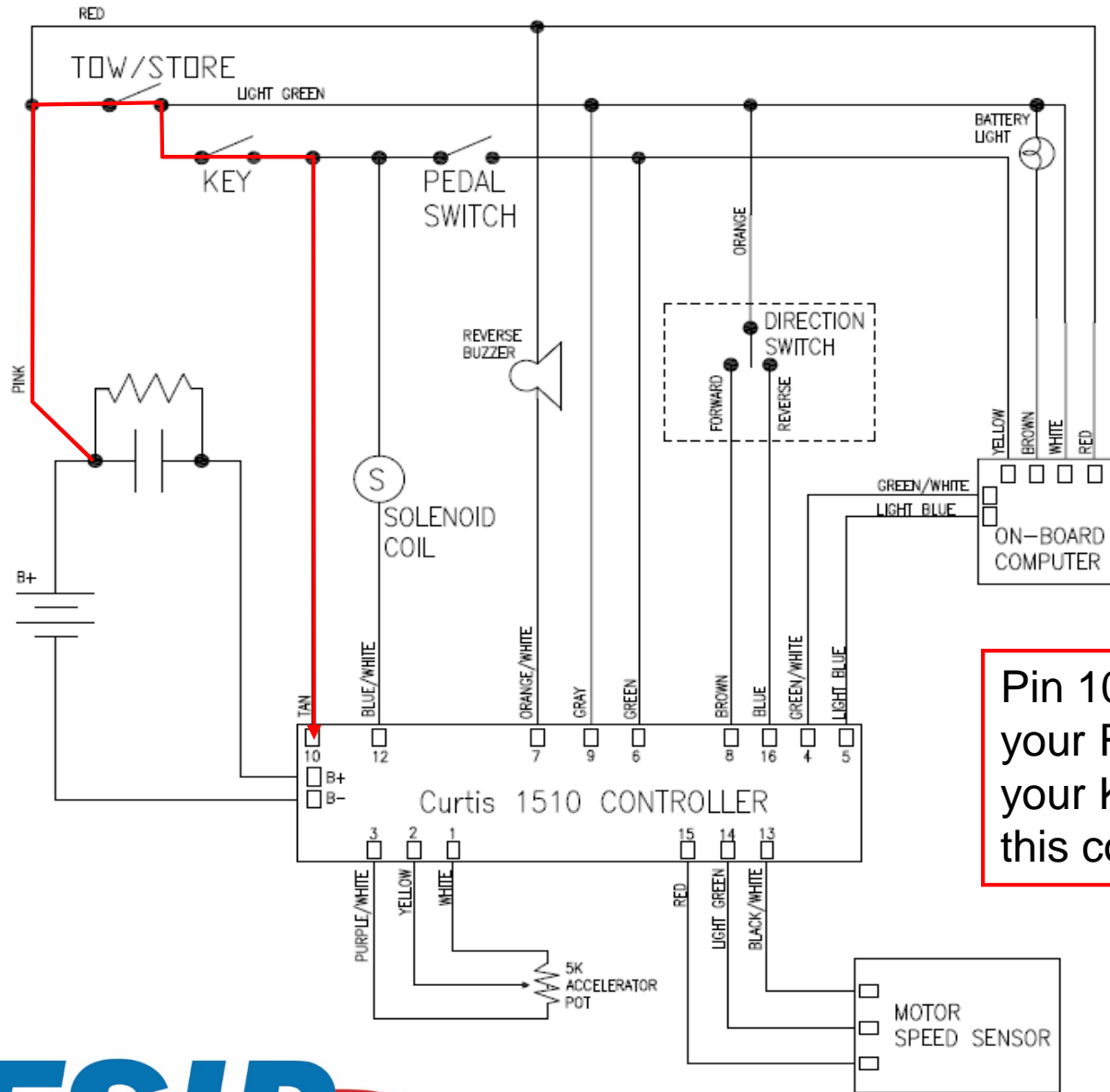
PIN 6 – GREEN WIRE 

PIN 9 – GRAY WIRE 

PIN 5 – LIGHT BLUE WIRE 

All of these wires measure battery positive. 

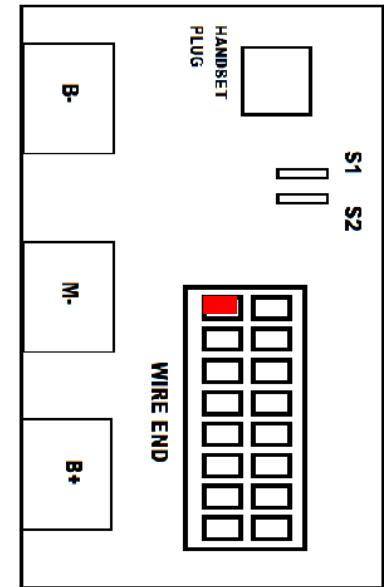
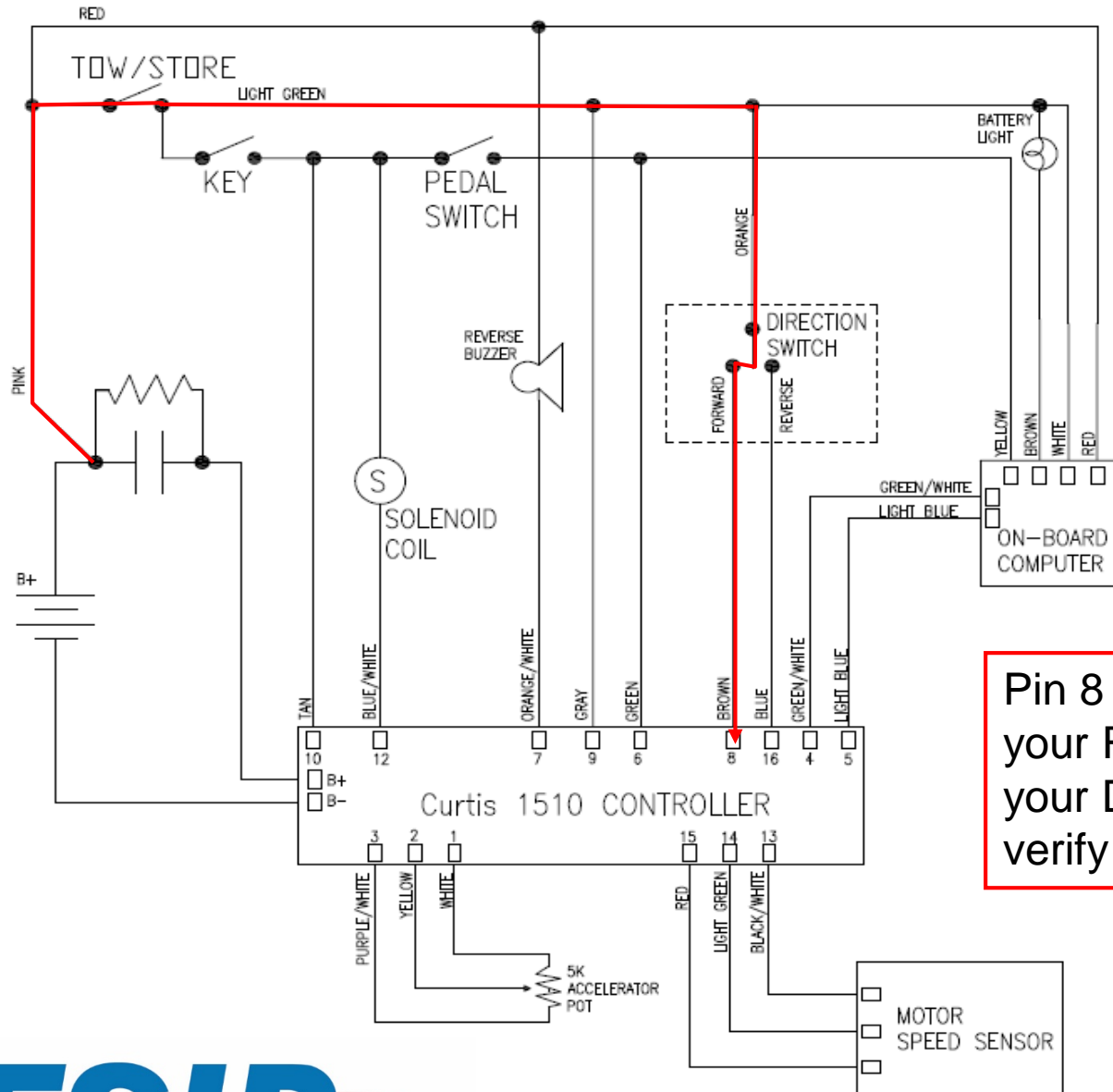





Pin 10 is supplied through your Run/Tow switch AND your Key Switch, verify this connection.

Back

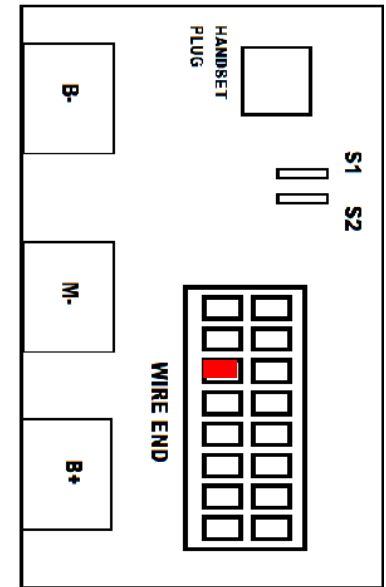
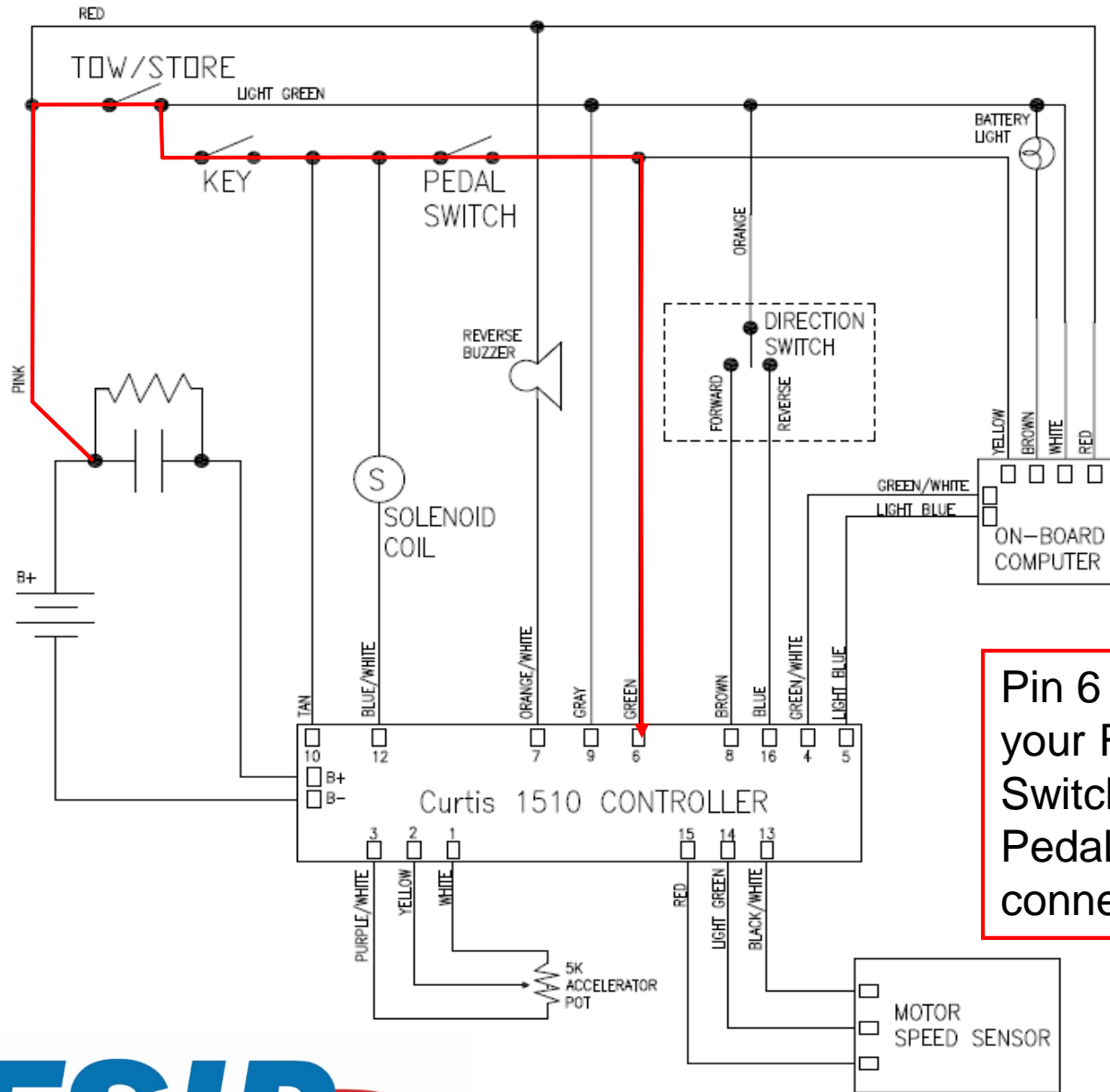




Pin 8 is supplied through your Run/Tow switch AND your Direction Switch, verify this connection.

Back 

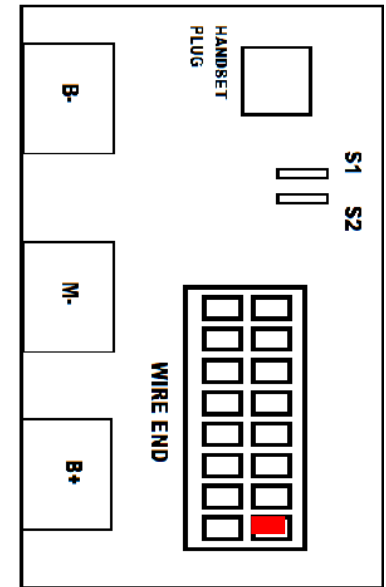
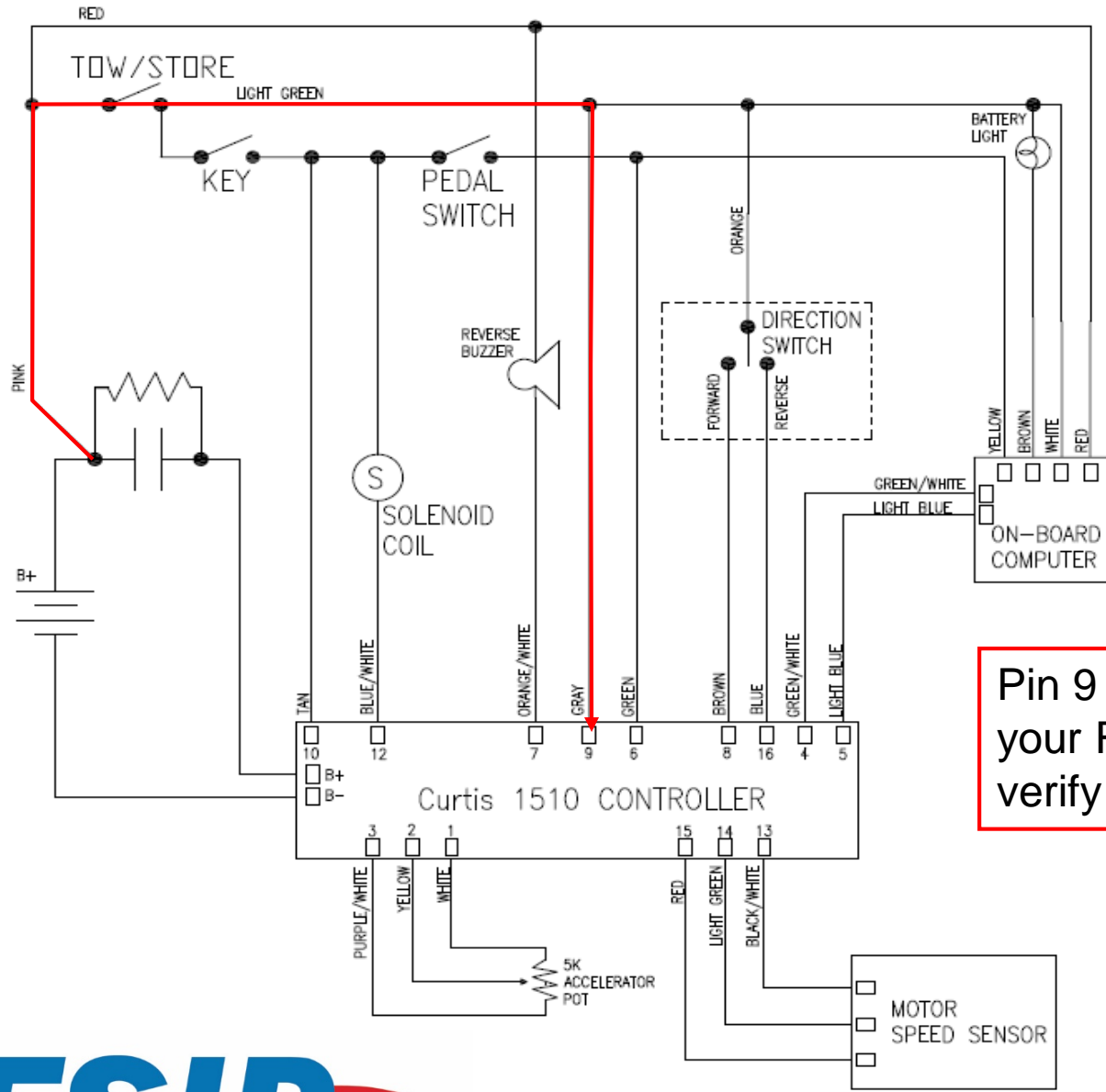




Pin 6 is supplied through your Run/Tow Switch, Key Switch, and your Foot Pedal Switch verify this connection.

Back

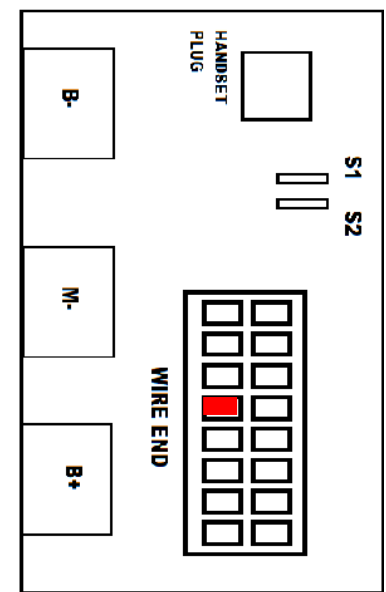
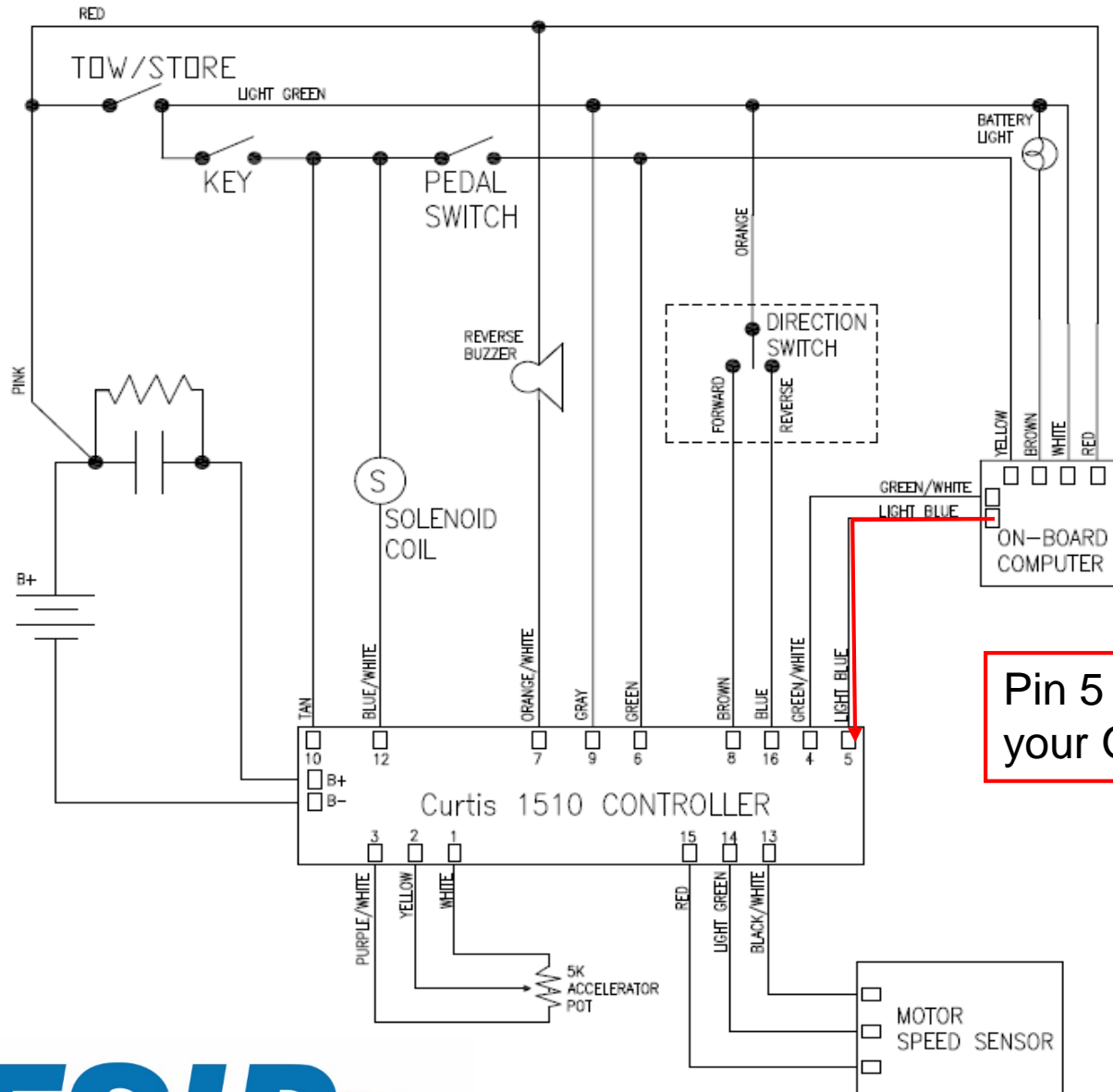




Pin 9 is supplied through your Run/Tow Switch verify this connection.

Back





Pin 5 is supplied through your On-Board Computer.

Testing the On-Board Computer

 BACK



Is your dash-mounted battery warning light illuminated?


YES


NO



Using a digital voltmeter with the Black Lead on battery negative, battery positive should be measured on the following pins of the On-Board computers wiring harness.

If battery voltage is not measured click the arrow of the corresponding wire.

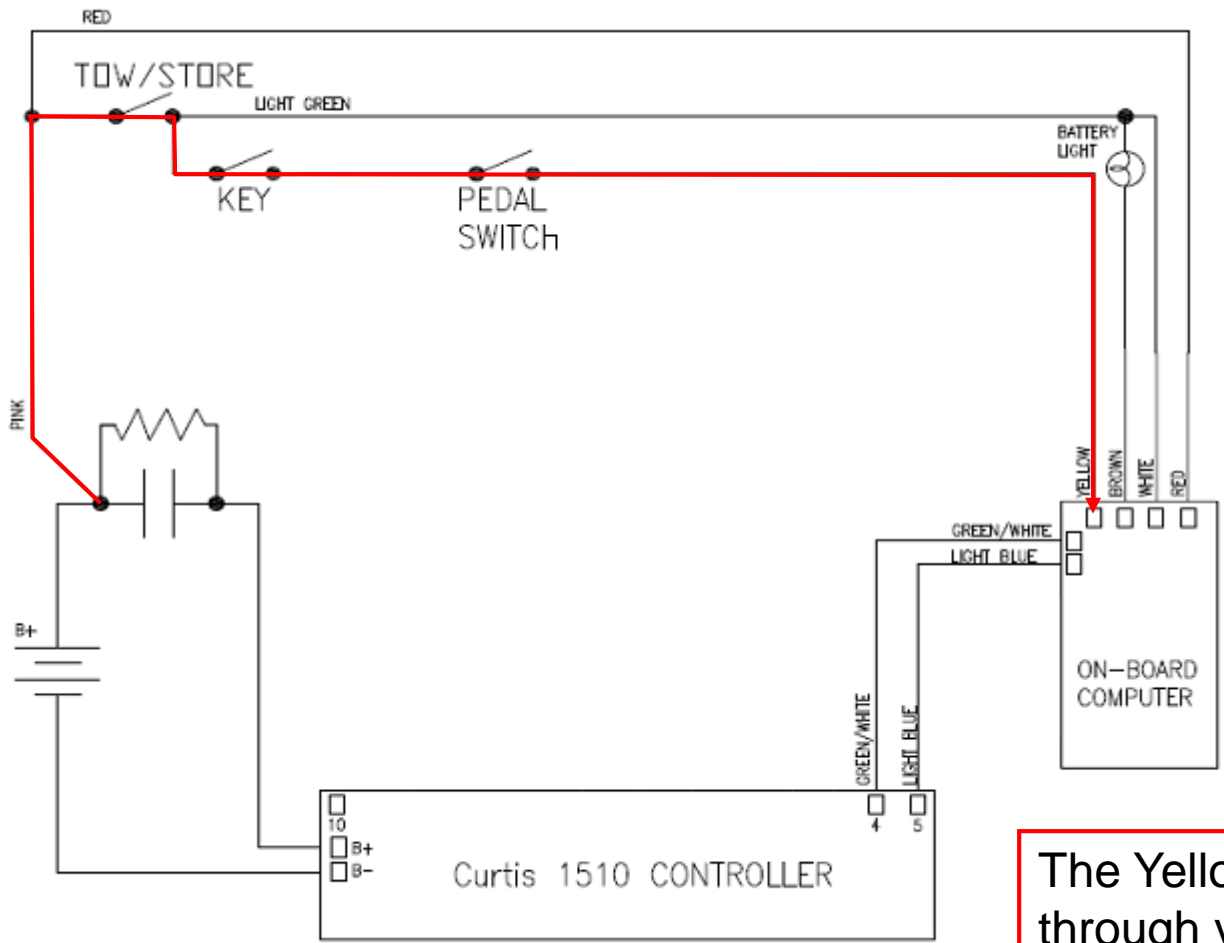
YELLOW 

WHITE 

RED 

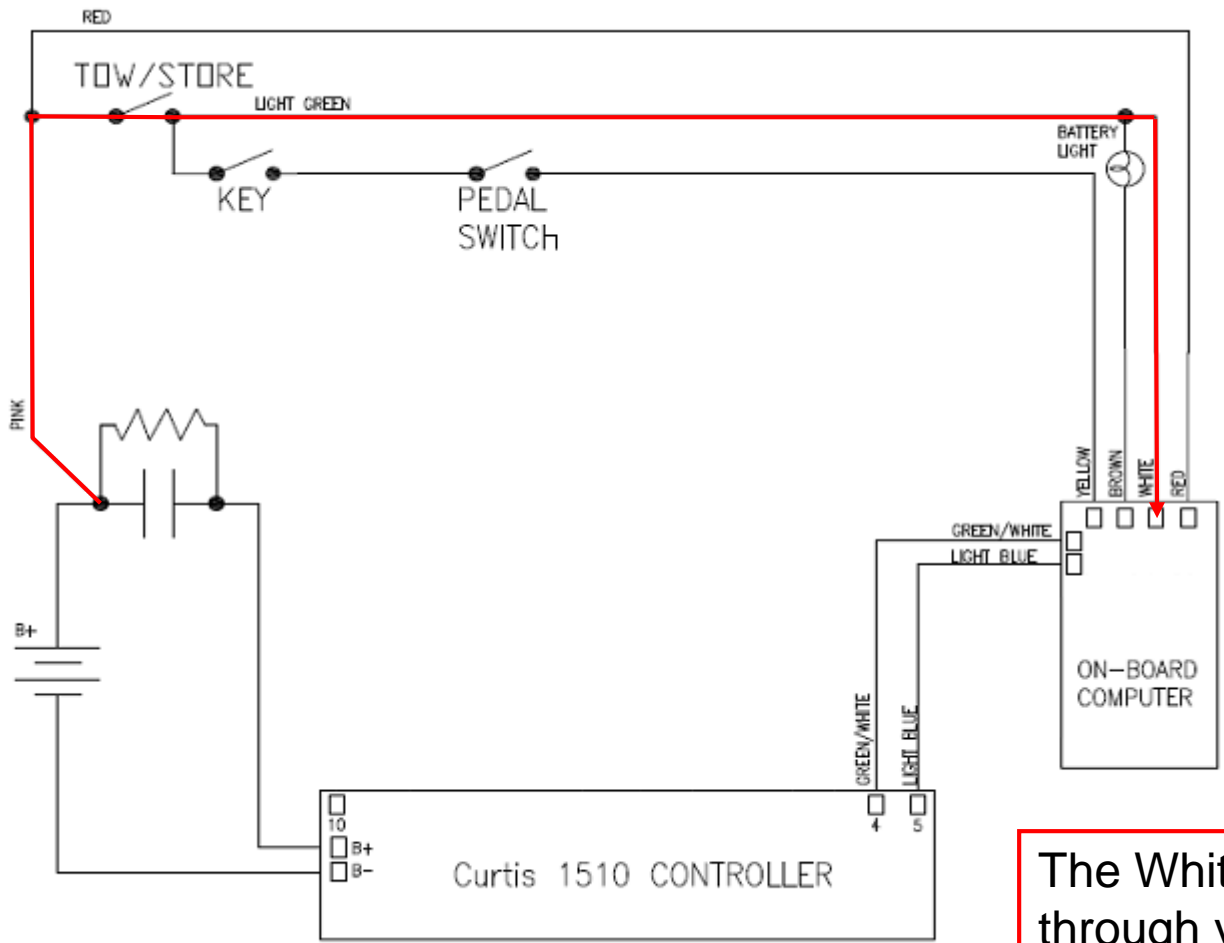
All of these wires measure battery positive. 





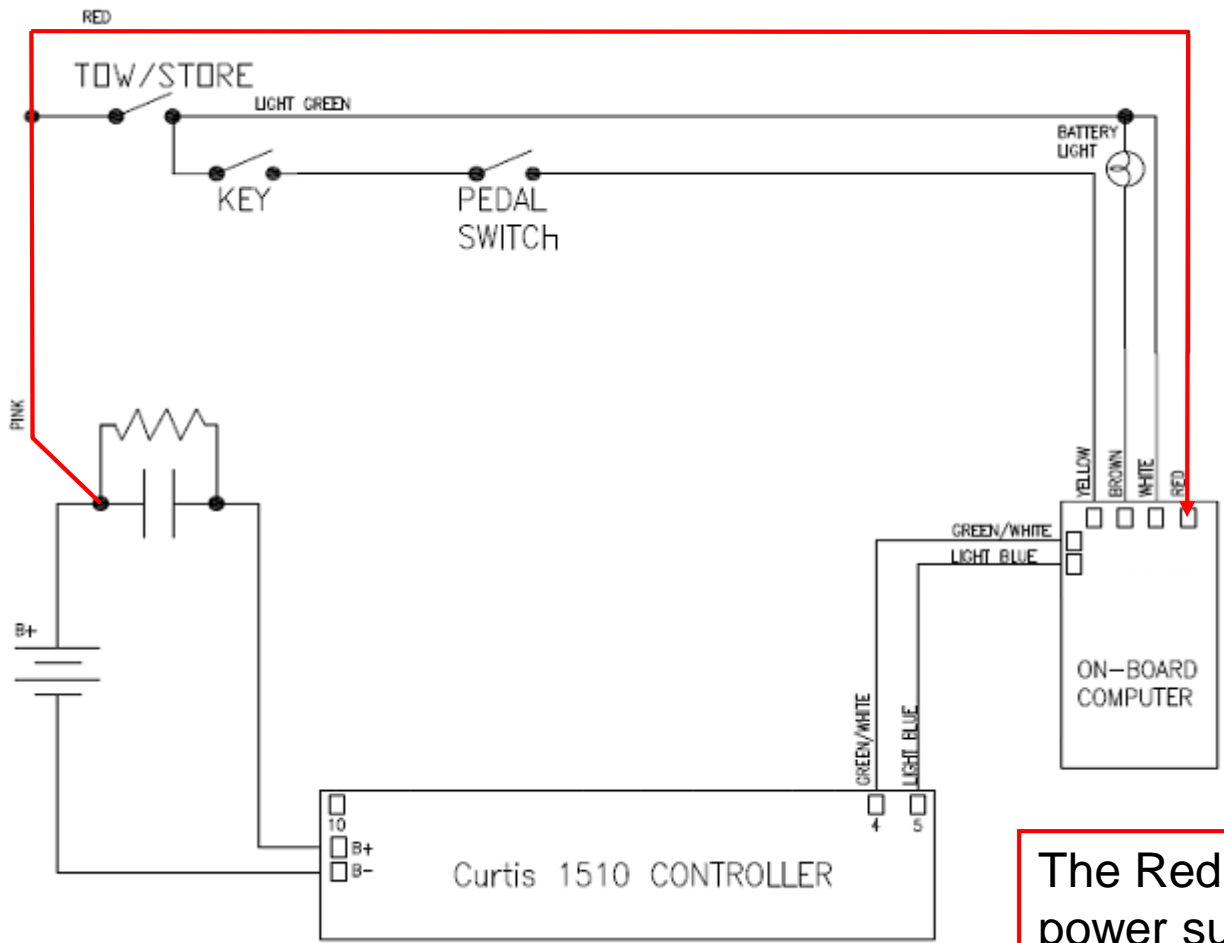
The Yellow wire is supplied through your Run/Tow switch, Key switch, and your Pedal switch verify this connection.





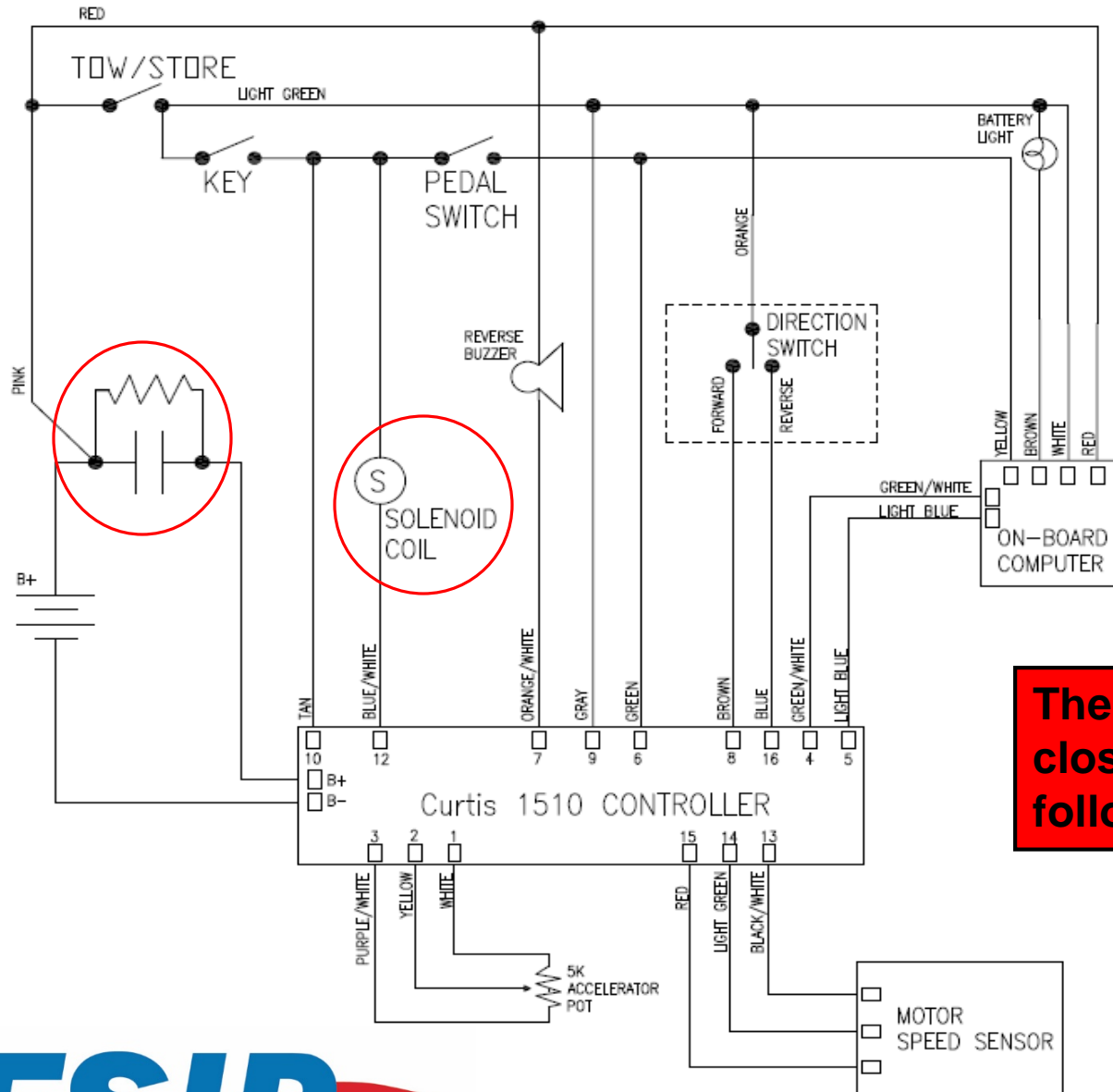
The White wire is supplied through your Run/Tow switch verify this connection.





The Red wire is the main power supply to your Computer, verify this connection.





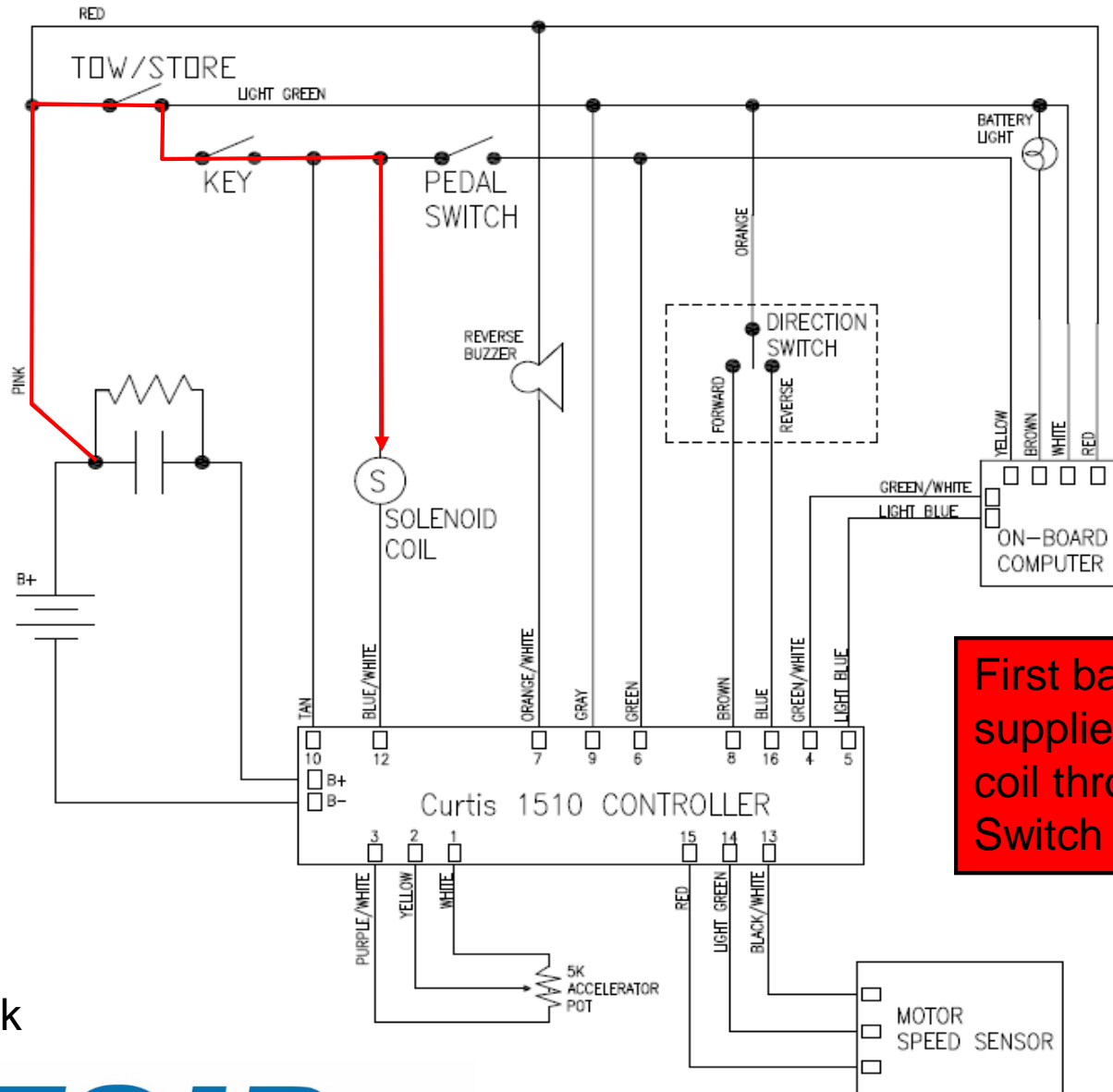
The solenoid is closed by the following steps

Next



Back



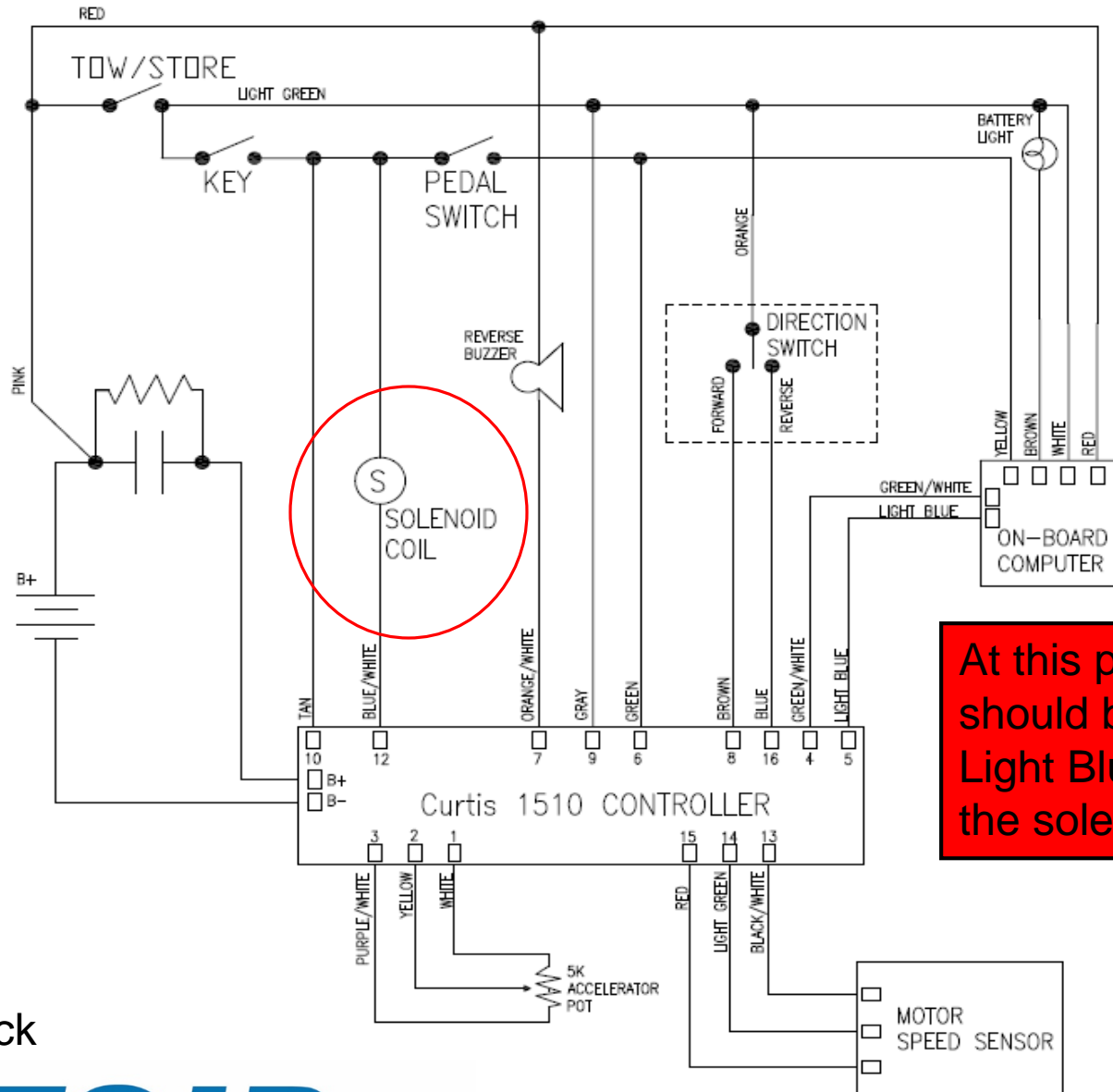


First battery positive is supplied to the solenoid coil through the Tow/Run Switch and the Key Switch.

◀ Back

Next ▶



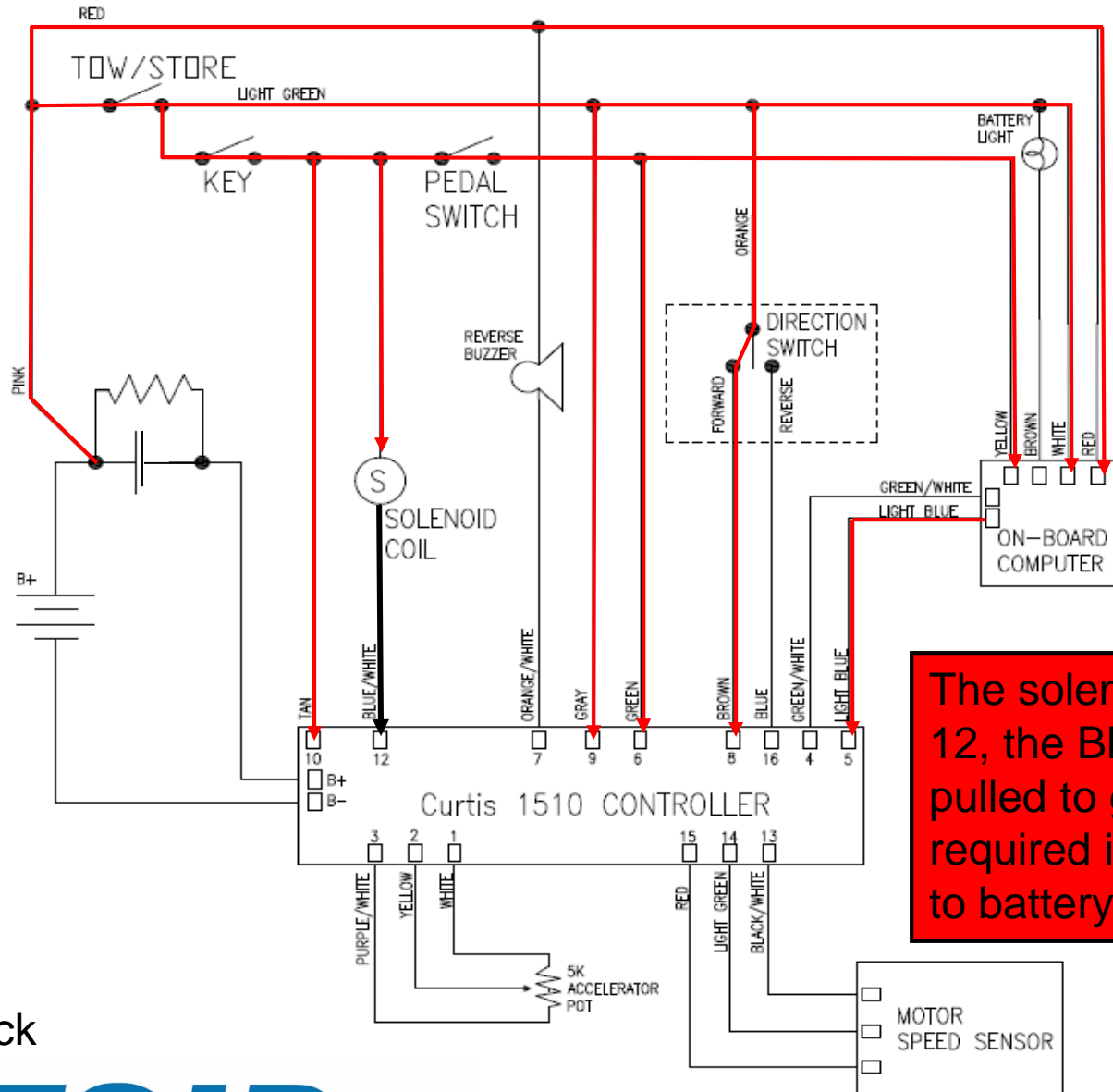


At this point battery positive should be measured on the Light Blue wire attached to the solenoid.

◀ Back

Next ▶



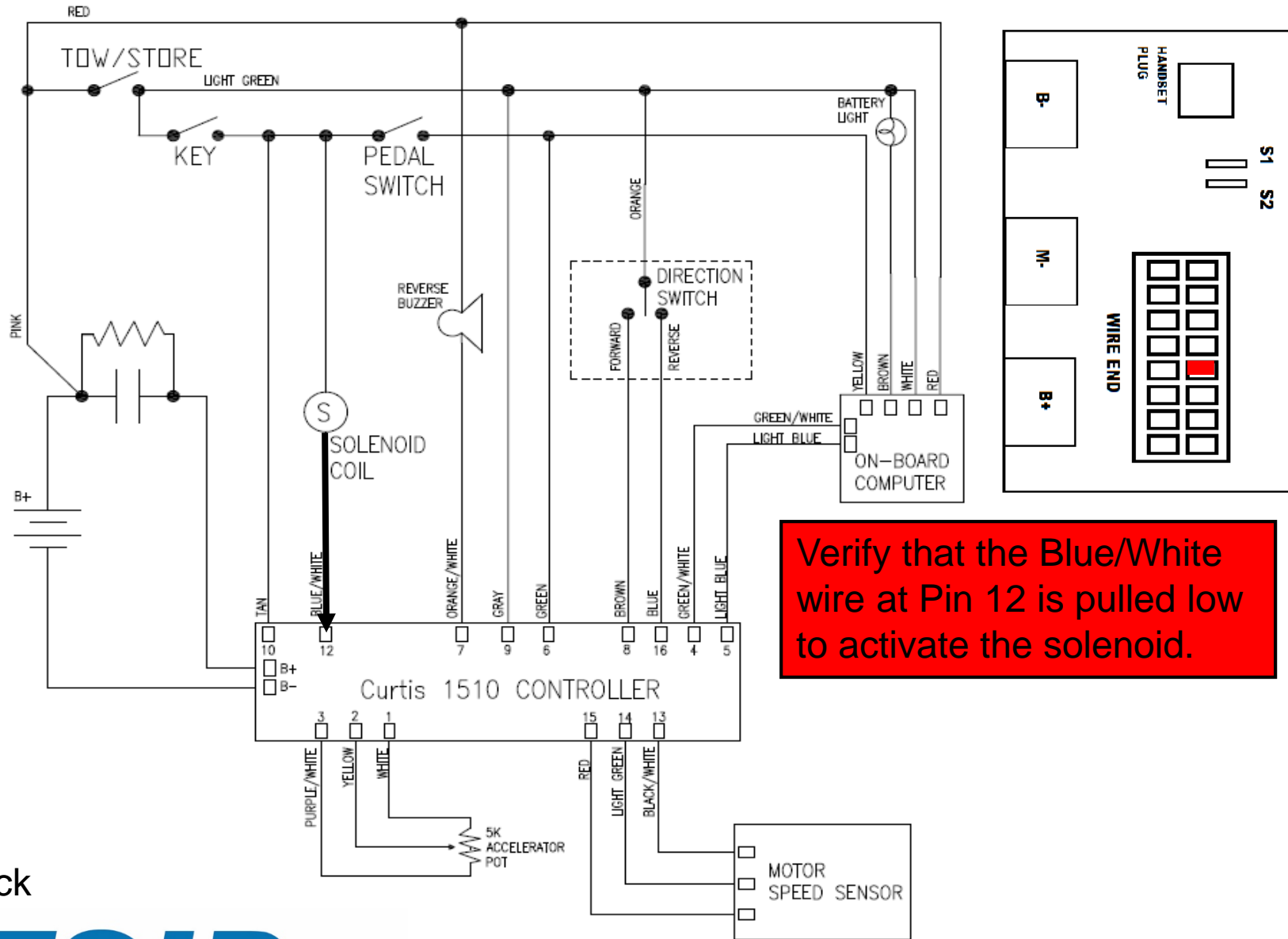


The solenoid is closed by Pin 12, the Blue/White Wire being pulled to ground only when all required inputs are connected to battery positive.

◀ Back

Next ▶



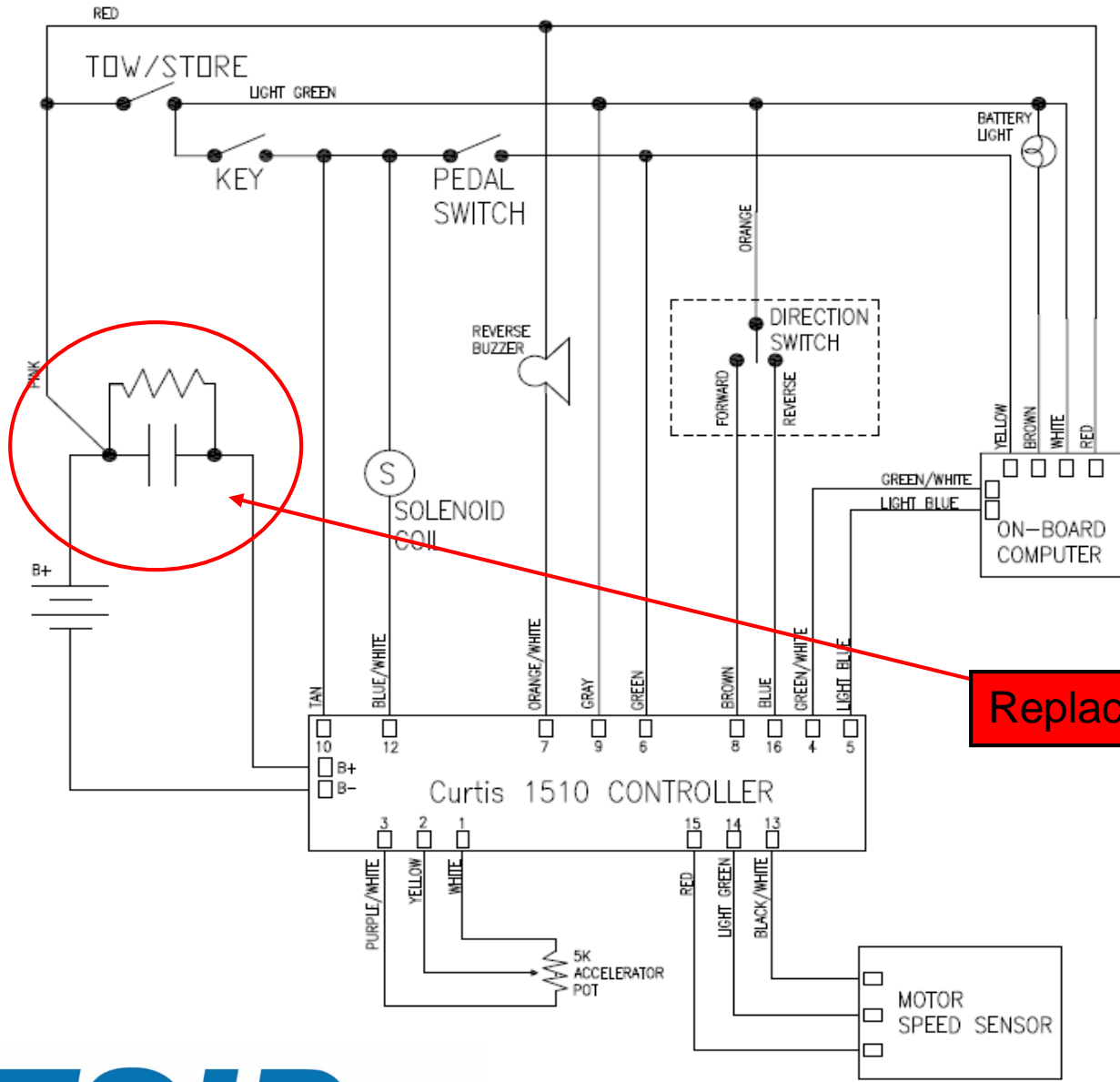


Back



Pin 12 is NOT being pulled low

Pin 12 is being pulled low

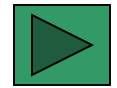


Replace vehicle solenoid



 Back

End



Your controller is not working to OEM specifications. Contact Flight Systems Industrial Products at 1-800-333-1194 to have your controller remanufactured.



End

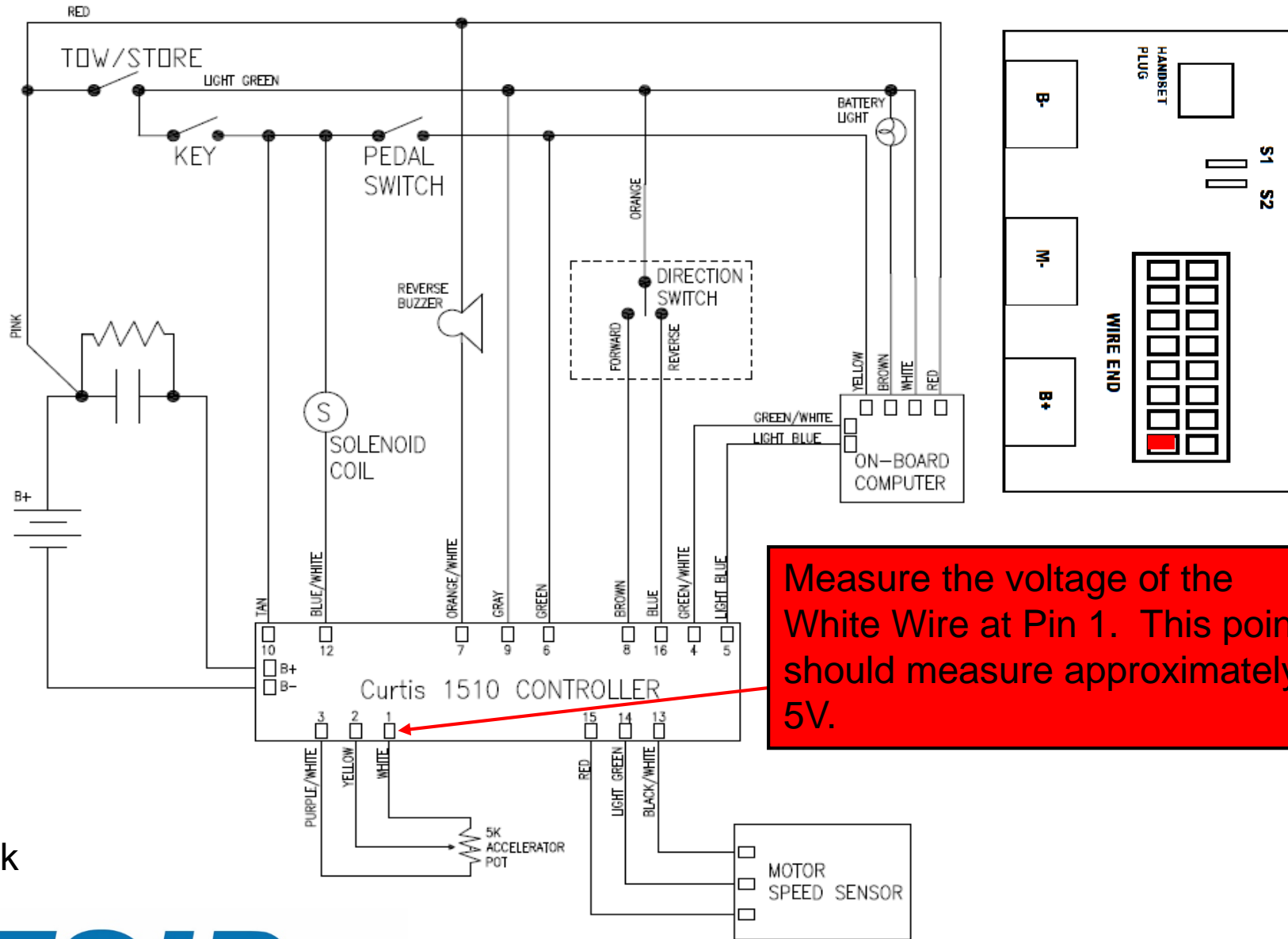


1. Tow/Run switch in the “Run” position.
2. Key switch in the “ON” position.
3. Forward/Reverse selector in “Forward” direction.

OK



Back

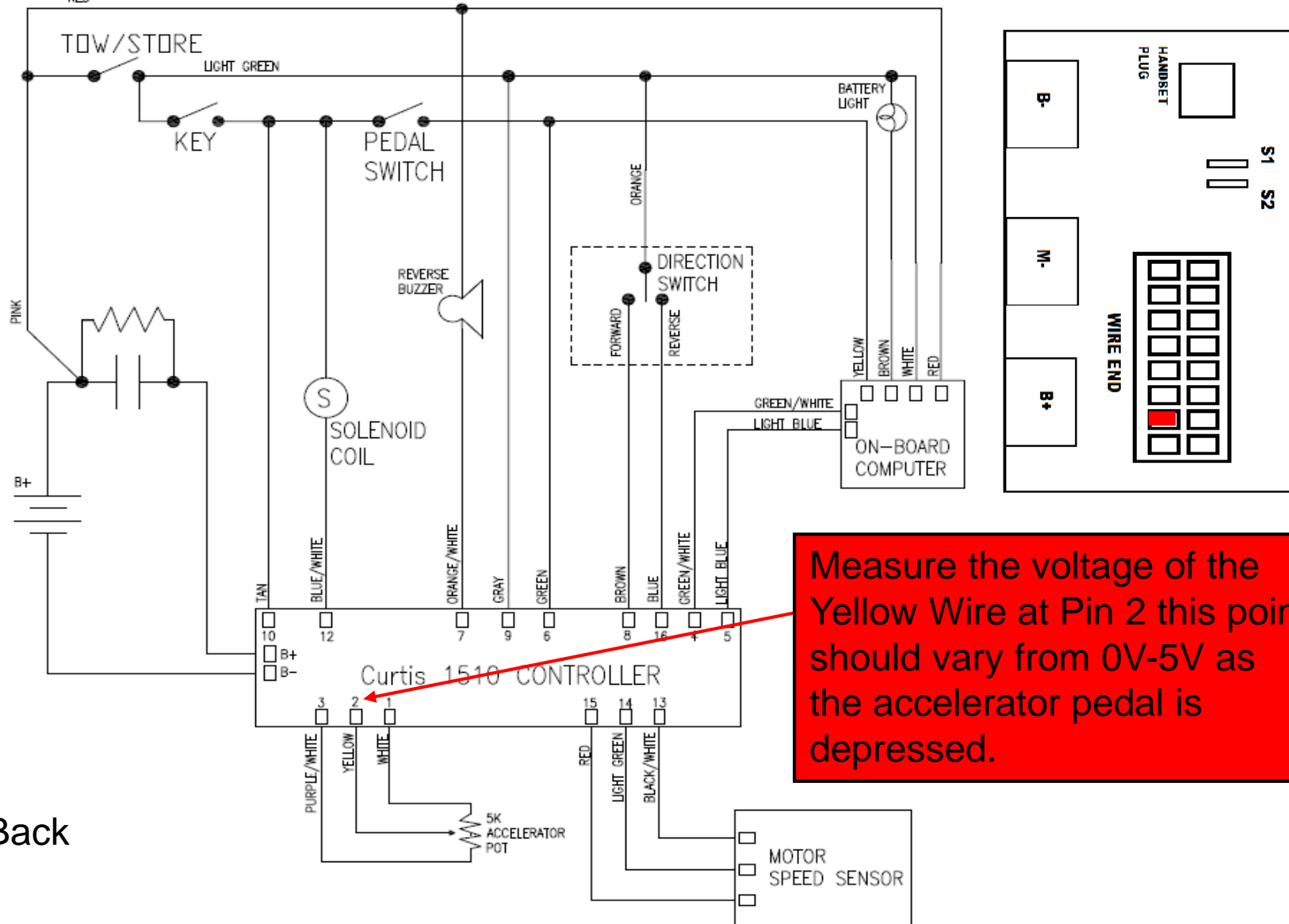


Back



Pin 1 measures 5V.

Pin 1 does not measure 5V.



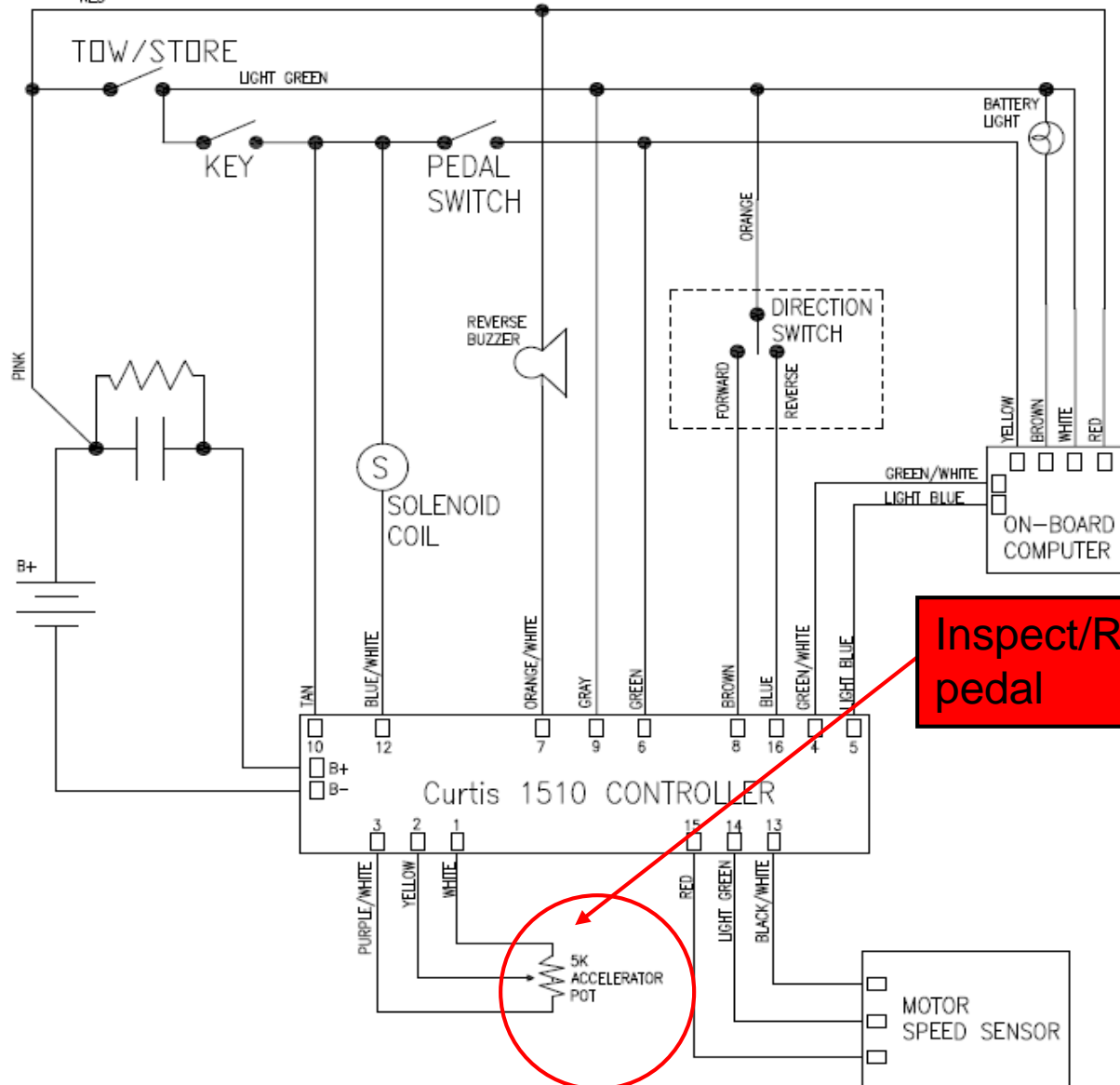
Measure the voltage of the Yellow Wire at Pin 2 this point should vary from 0V-5V as the accelerator pedal is depressed.

Back



Pin 2 does vary between 0V-5V when moving the accelerator pedal.

Pin 2 does not vary between 0V-5V when moving the accelerator pedal.



Inspect/Replace accelerator pedal

End



Back



Swap positions of the F1 and F2 cables on your controller, this will correct travelling in the wrong direction.



 Back

This indicates your battery state of charge is low, please re-connect your vehicle charger until battery warning light is extinguished.

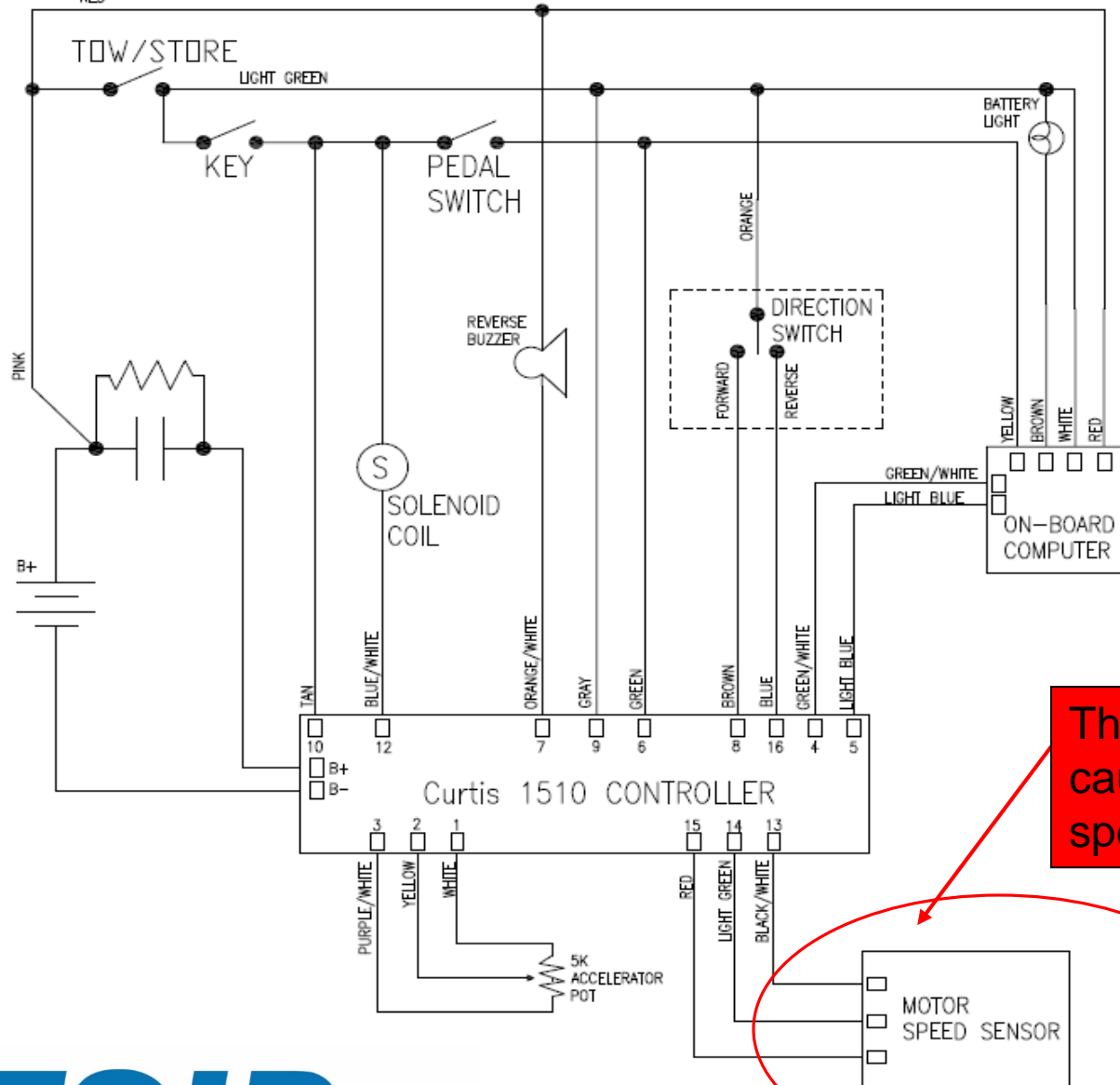


Back

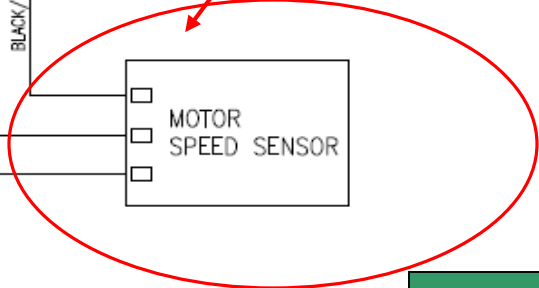
After verifying all input voltages to your on-board computer are correct, and verifying battery state of charge is ok, the vehicle on-board computer may need to be reset. Remove the battery positive cable for 10-15 minutes then re-connect to restart computer. If this does not return vehicle functionality the vehicle computer may be faulty.



 Back



This fault may be caused by your motor speed sensor.



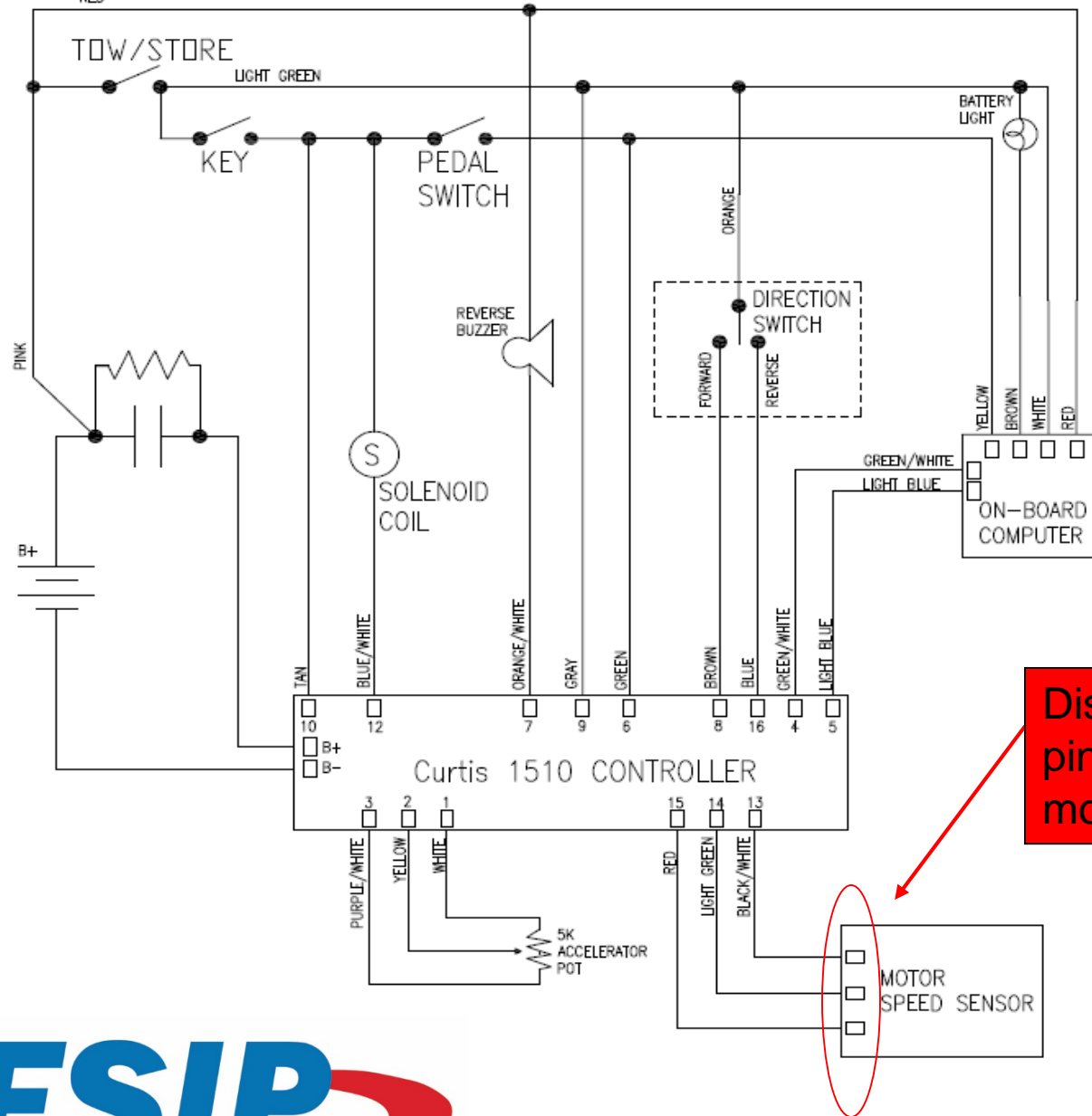
Testing the motor speed sensor

 Back



1. Turn the vehicle Key Switch to the off position.
2. Tow/Run Switch in the Run position.
3. Forward/Reverse Switch in the Neutral position.








Disconnect the three-pin connector at the motor speed sensor



Next



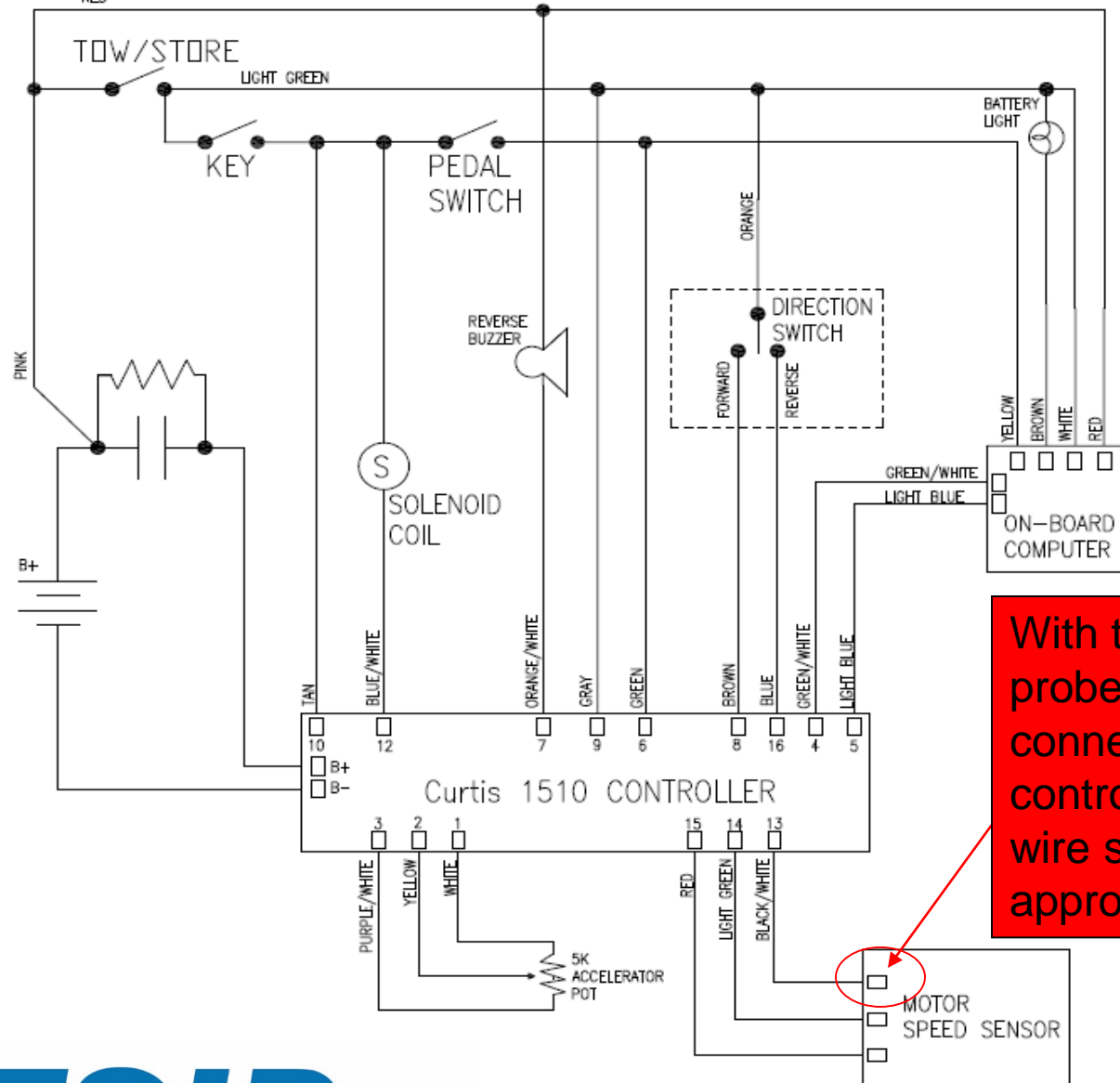
Using a digital voltmeter measure the voltages of the following pins of the motor speed sensor wires.

1. 
2. 
3. 

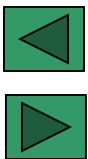
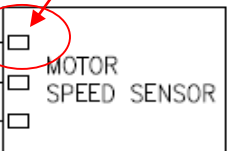
If all of the above tests are found to be within tolerance replacing the motor speed sensor should return vehicle functionality.



 Back



With the Black meter probe on the B-connection of the controller the Black/White wire should measure approx 0 volts.



The Black/White wire measures approx. 0V.

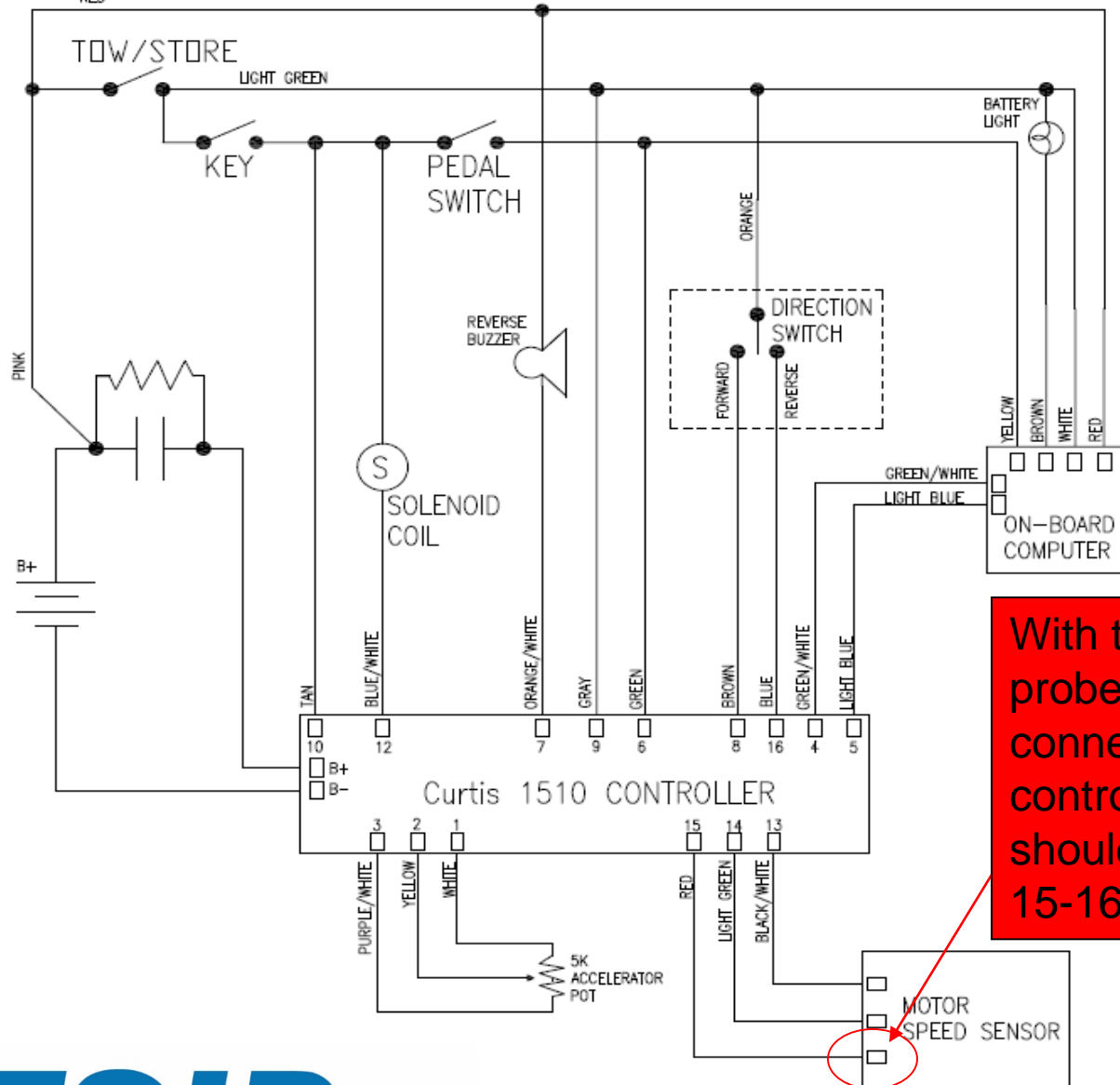
The Black/White wire measures battery positive.

Verify the continuity of the Black/White wire from pin 13 of the controllers 16 pin connector to the three pin connector at the motor speed sensor and replace wire if necessary.

Continuity is ok



Back



With the Black meter probe on the B- connection of the controller, the Red wire should measure approx 15-16 volts.



The Red wire measures less than 14V.



The Red wire measures 15-16V.

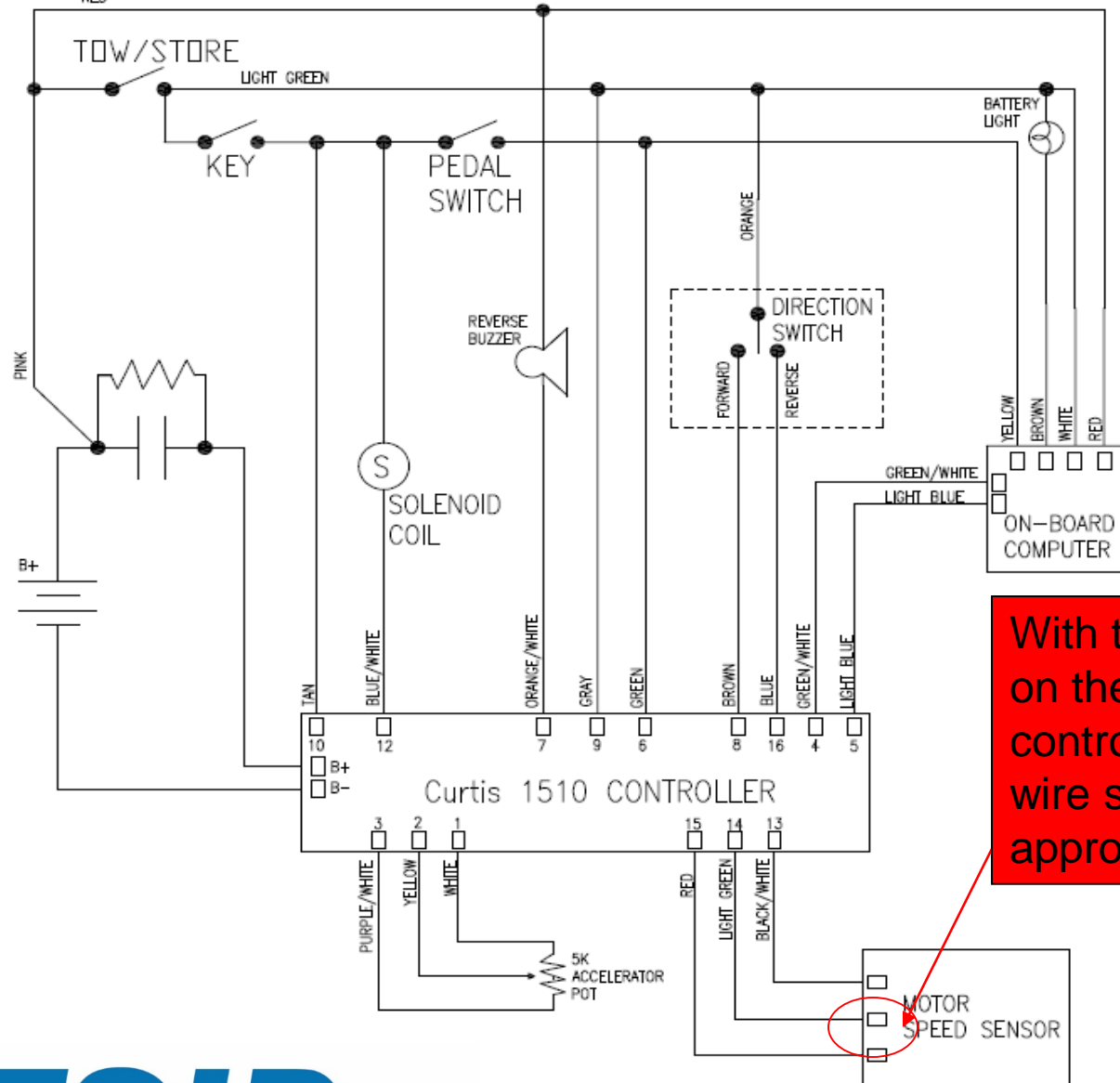


Verify the continuity of the Red wire from pin 15 of the controllers 16 pin connector to the three pin connector at the motor speed sensor and replace wire if necessary.

Continuity is ok



Back



With the Black meter probe on the B- connection of the controller, the Light Green wire should measure approx 4.6-4.9 volts.



The Light Green wire measures less than 4.4 volts.



The Light Green wire measures 4.6-4.9 volts.

Verify the continuity of the Light Green wire from pin 14 of the controllers 16 pin connector to the three pin connector at the motor speed sensor and replace wire if necessary.

Continuity is ok



Back