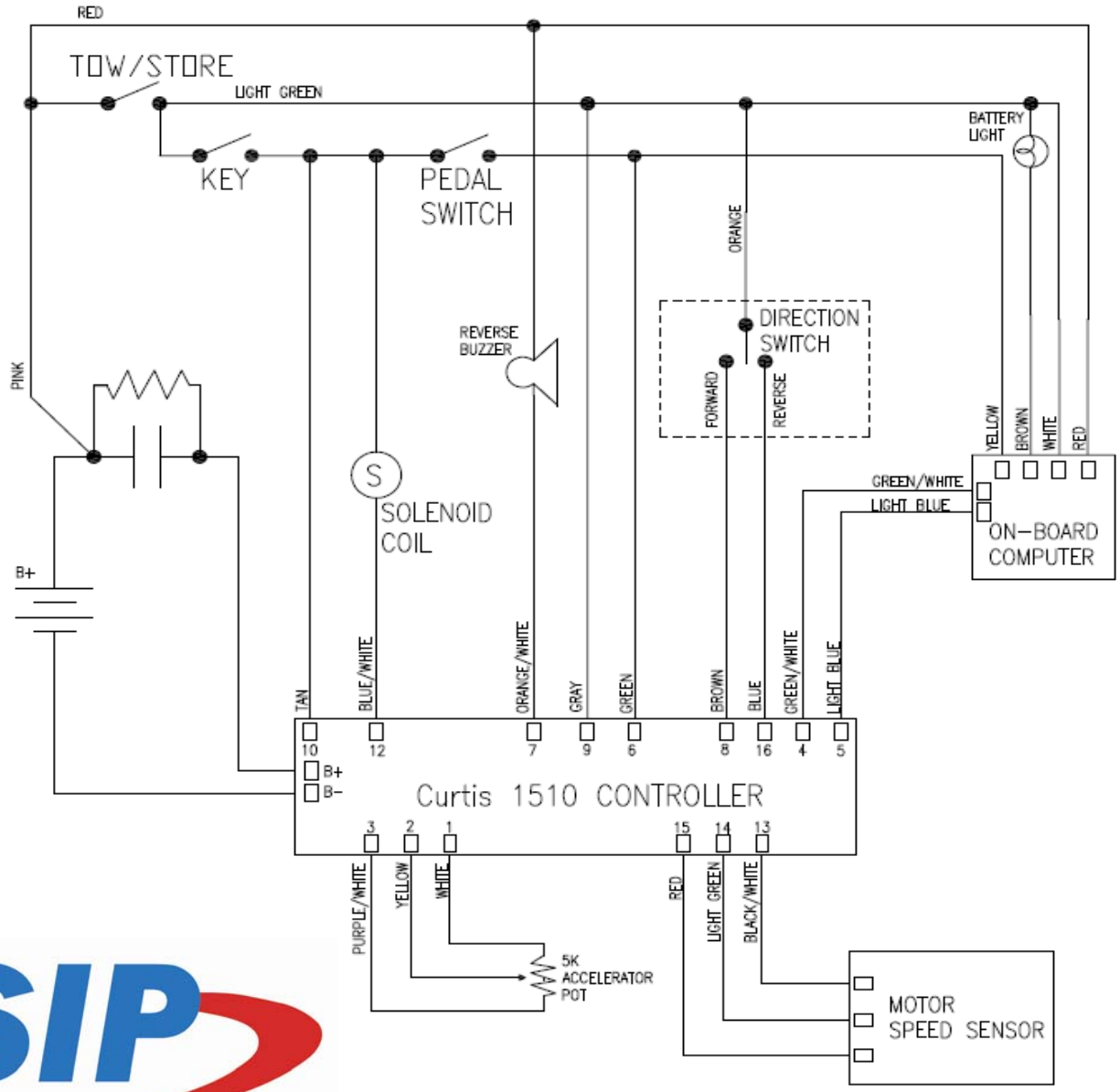
Club Car IQ Technical Information

NOTE:

Please use the forward (▷)
and back (◁)buttons to navigate.

FSIP

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.

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

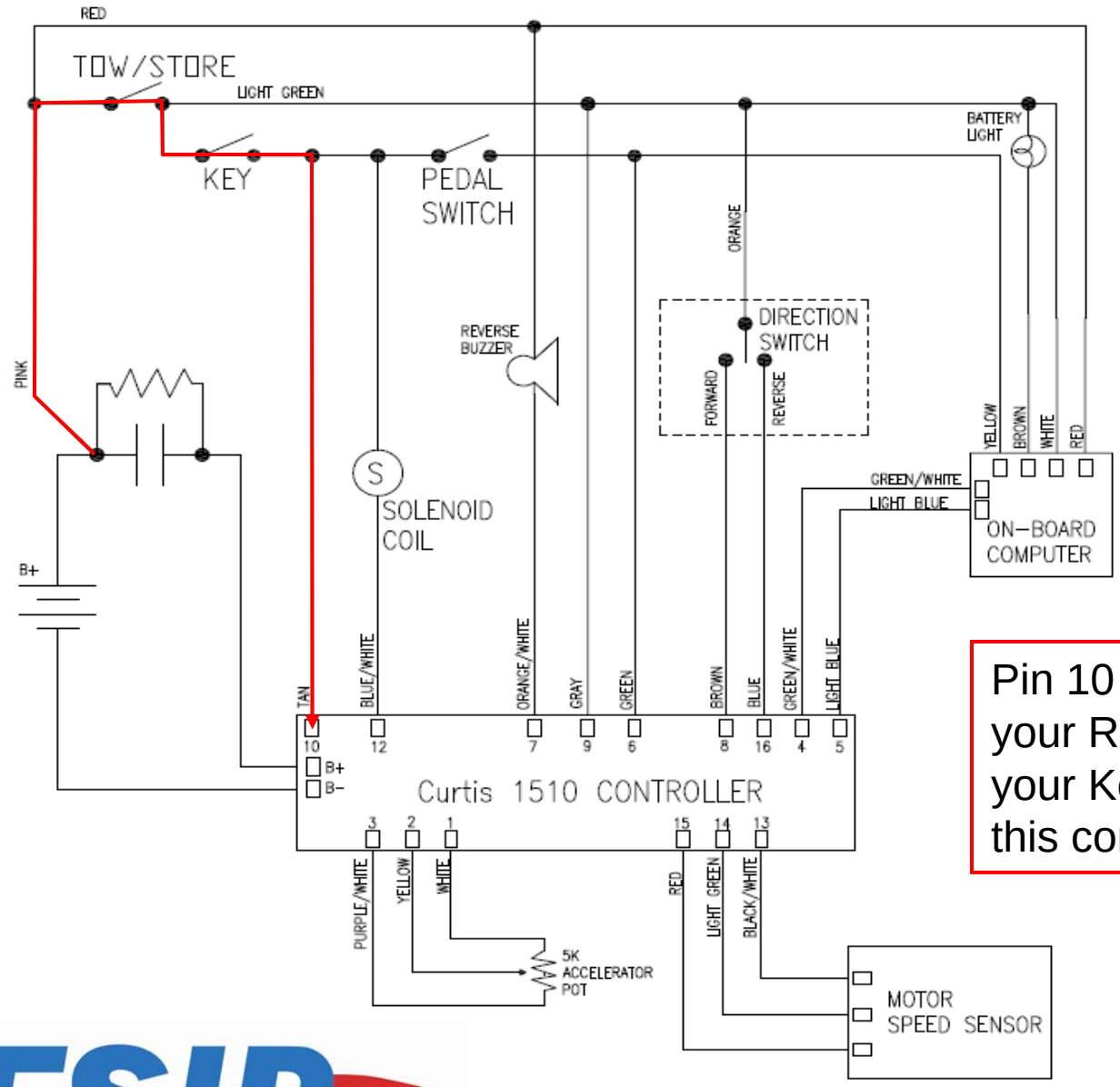
PIN 6 – GREEN WIRE

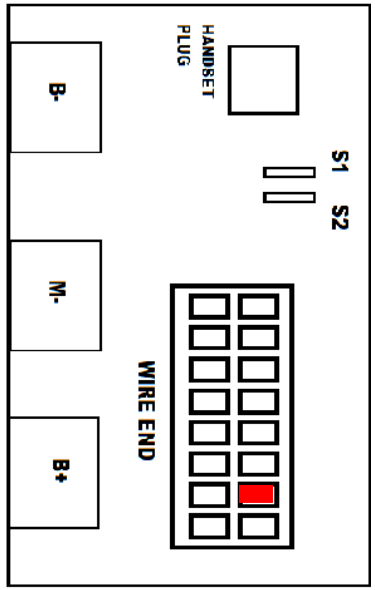
PIN 9 – GRAY WIRE

PIN 5 – LIGHT BLUE WIRE

All of these wires measure battery positive.

Back

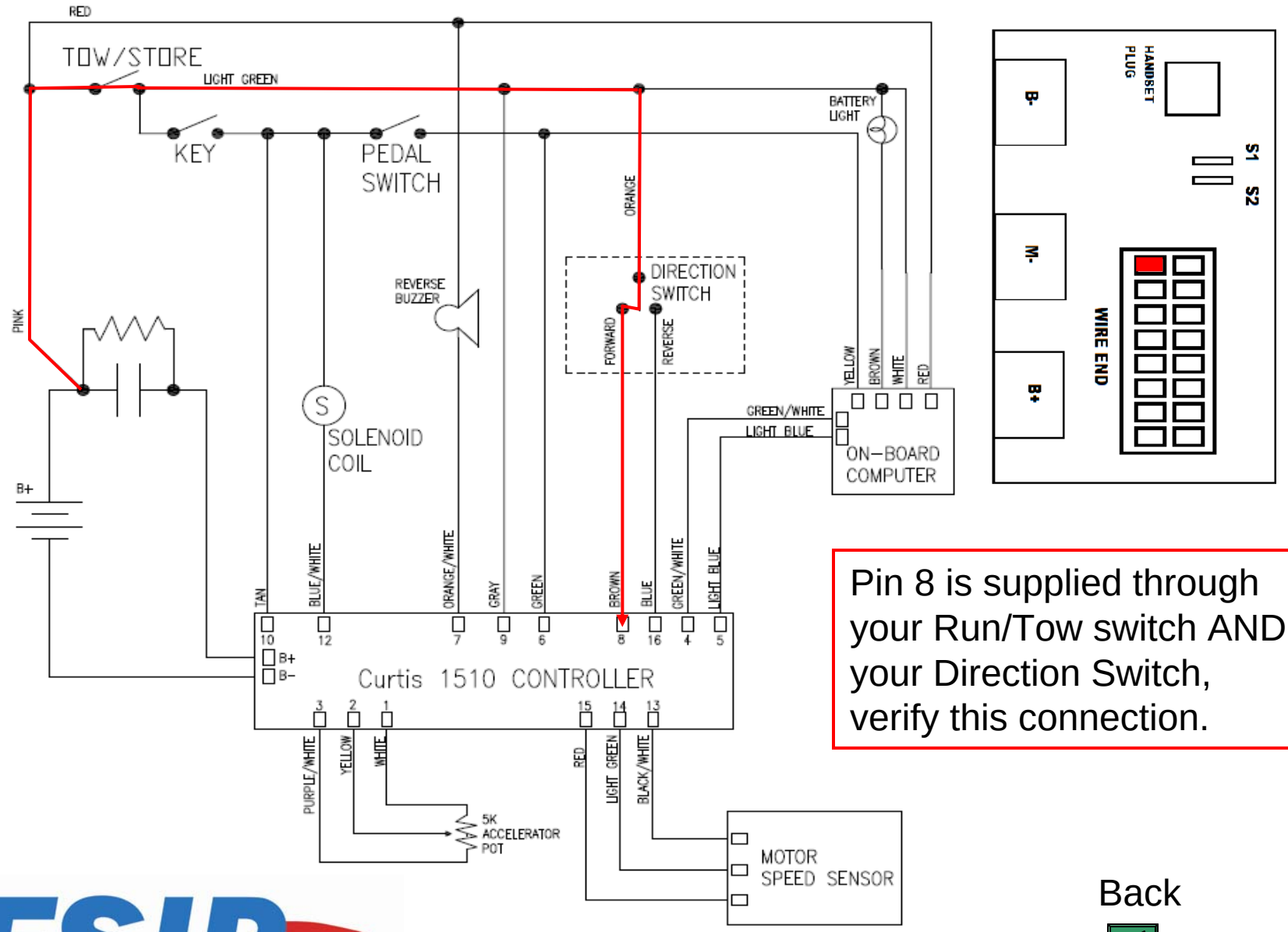




Pin 10 is supplied through your Run/Tow switch AND your Key Switch, verify this connection.

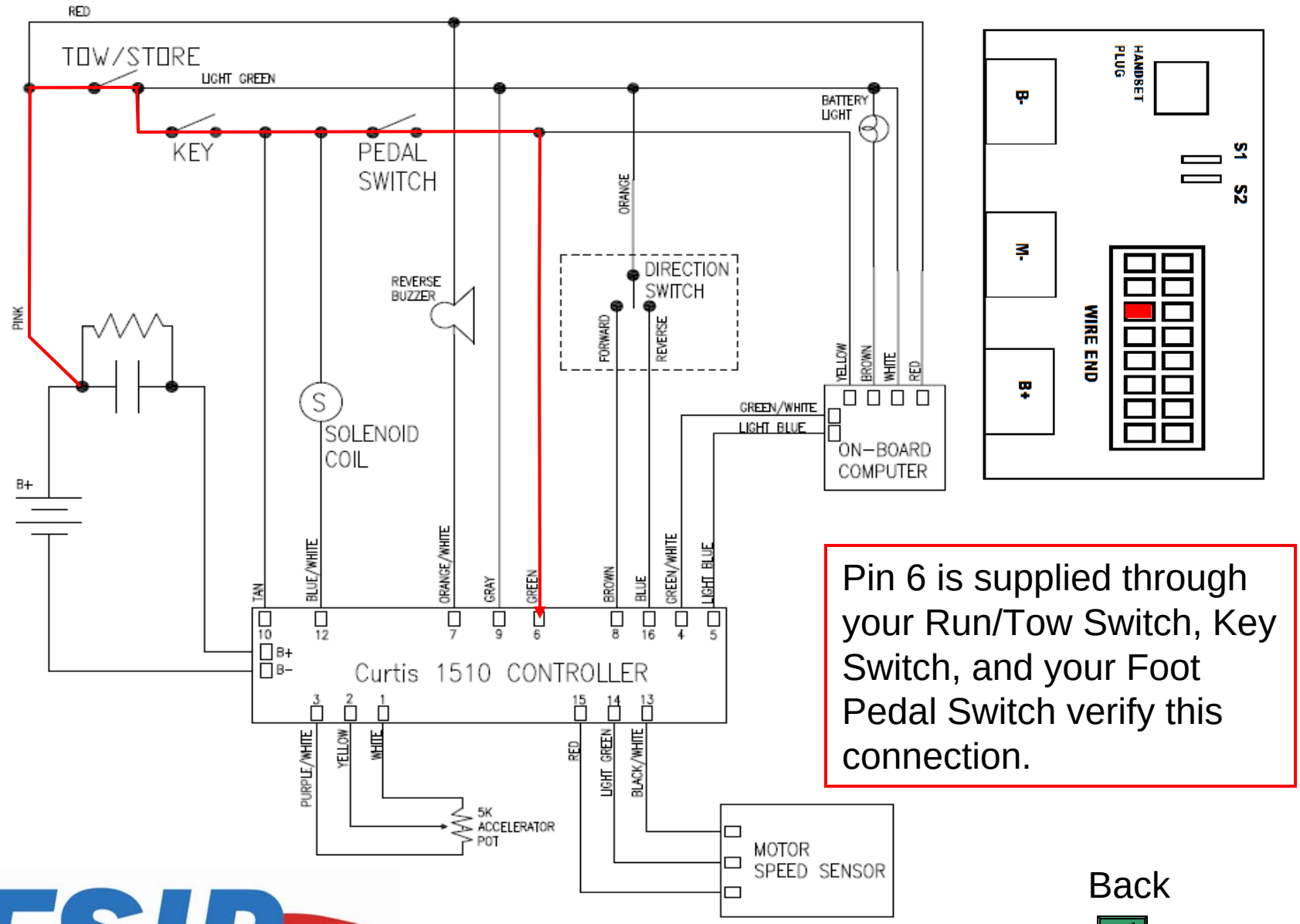
Back

FSIP



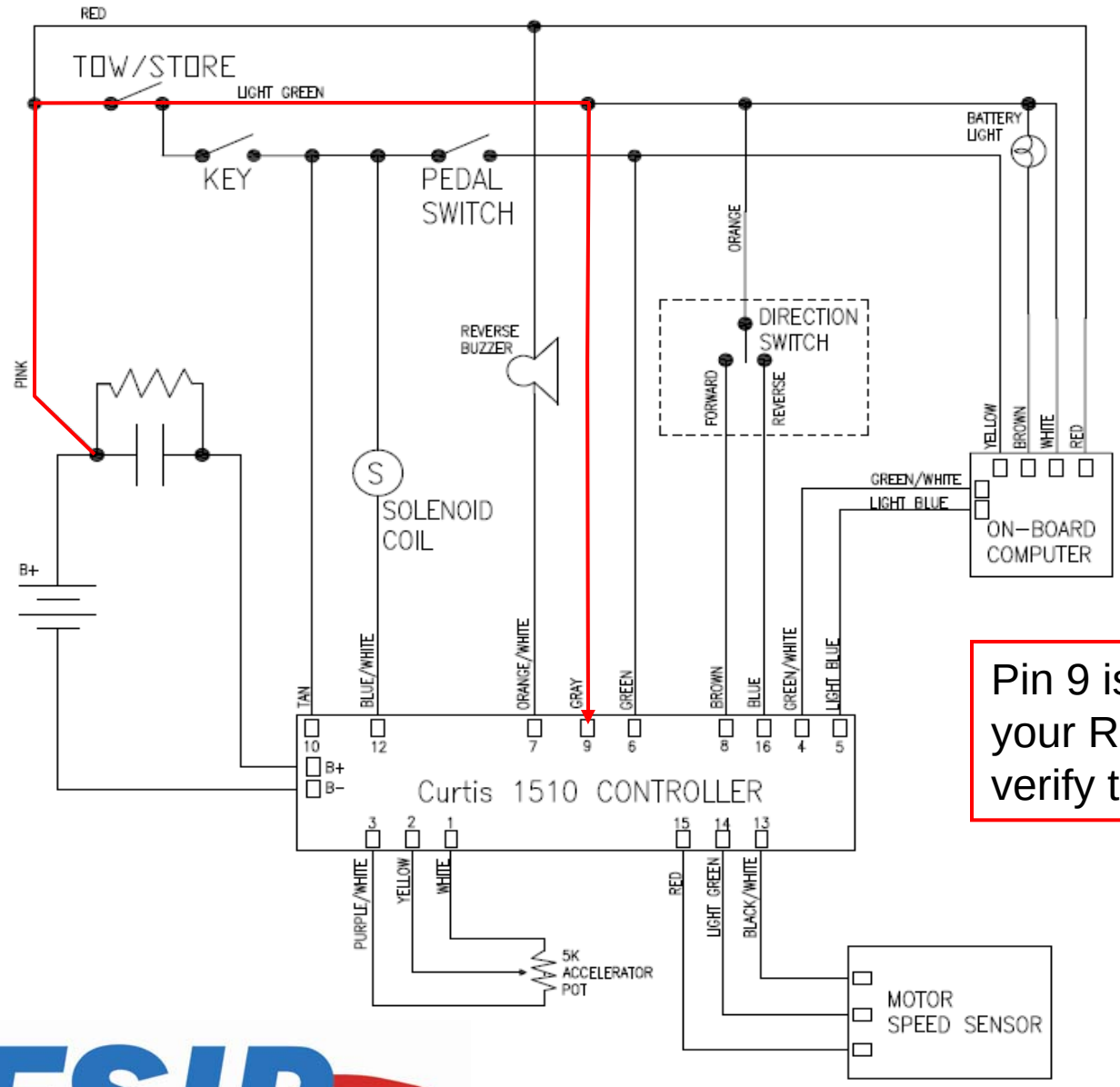
Pin 8 is supplied through your Run/Tow switch AND your Direction Switch, verify this connection.

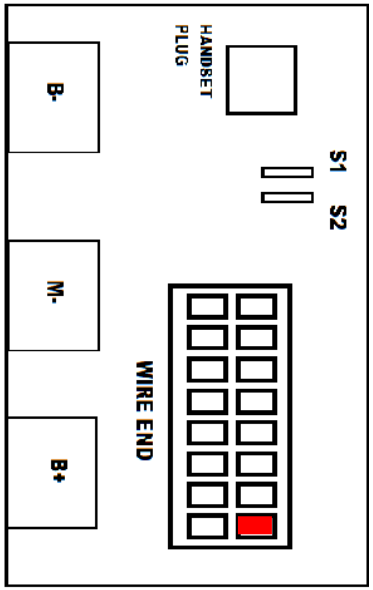
Back



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

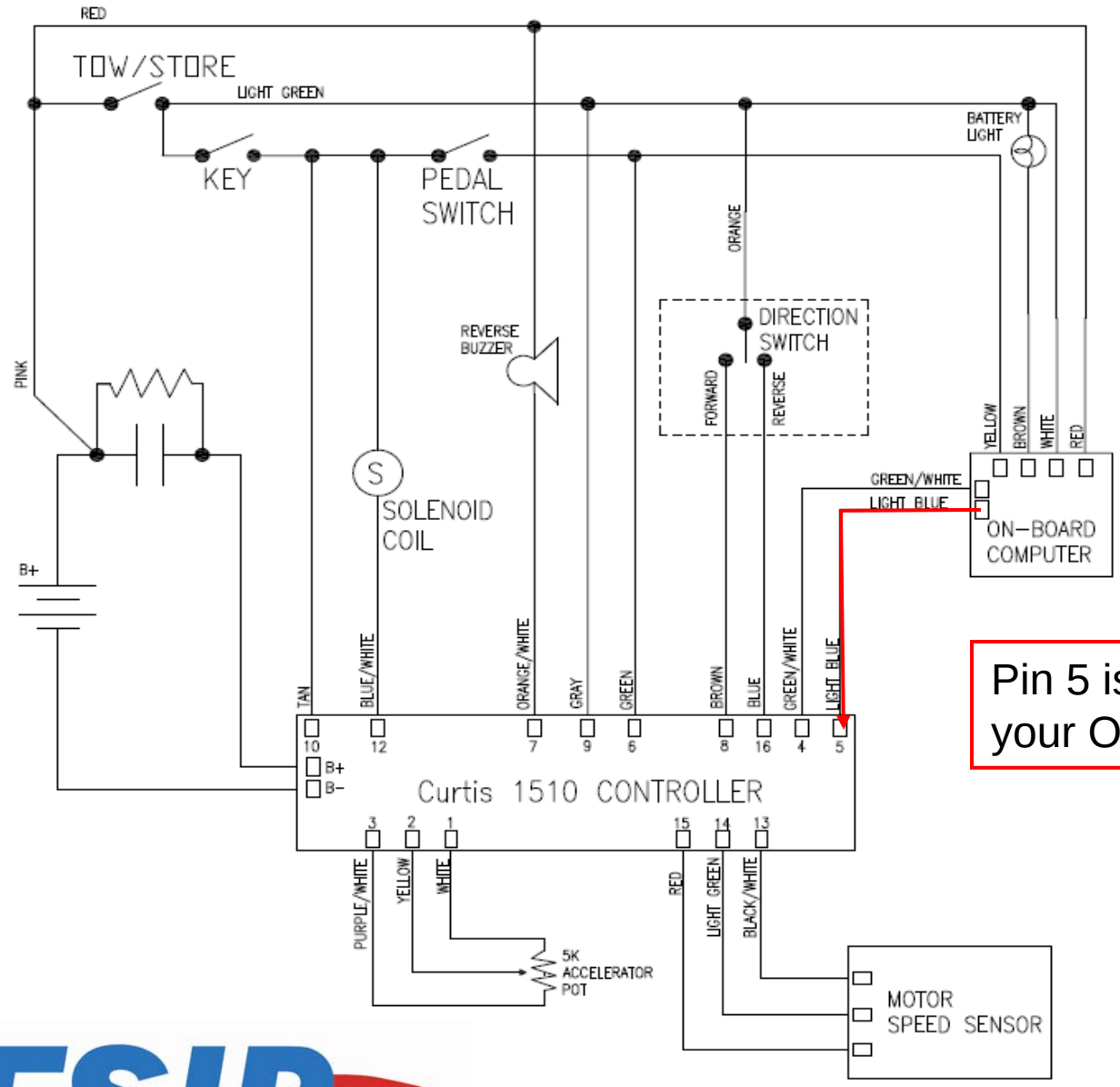
Back

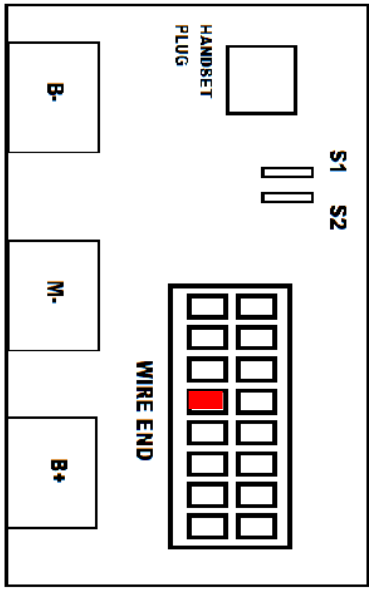




Pin 9 is supplied through your Run/Tow Switch verify this connection.

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

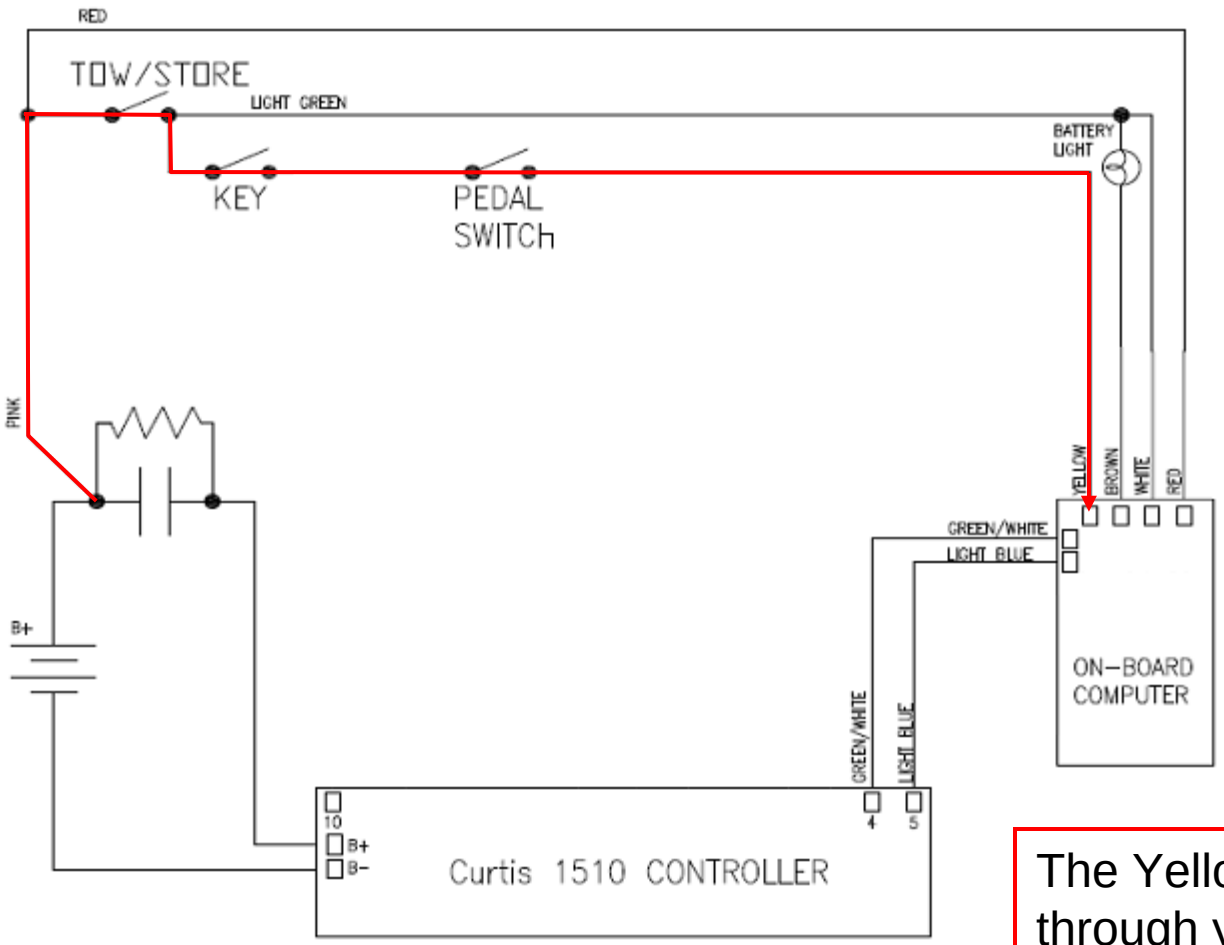
NO

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	

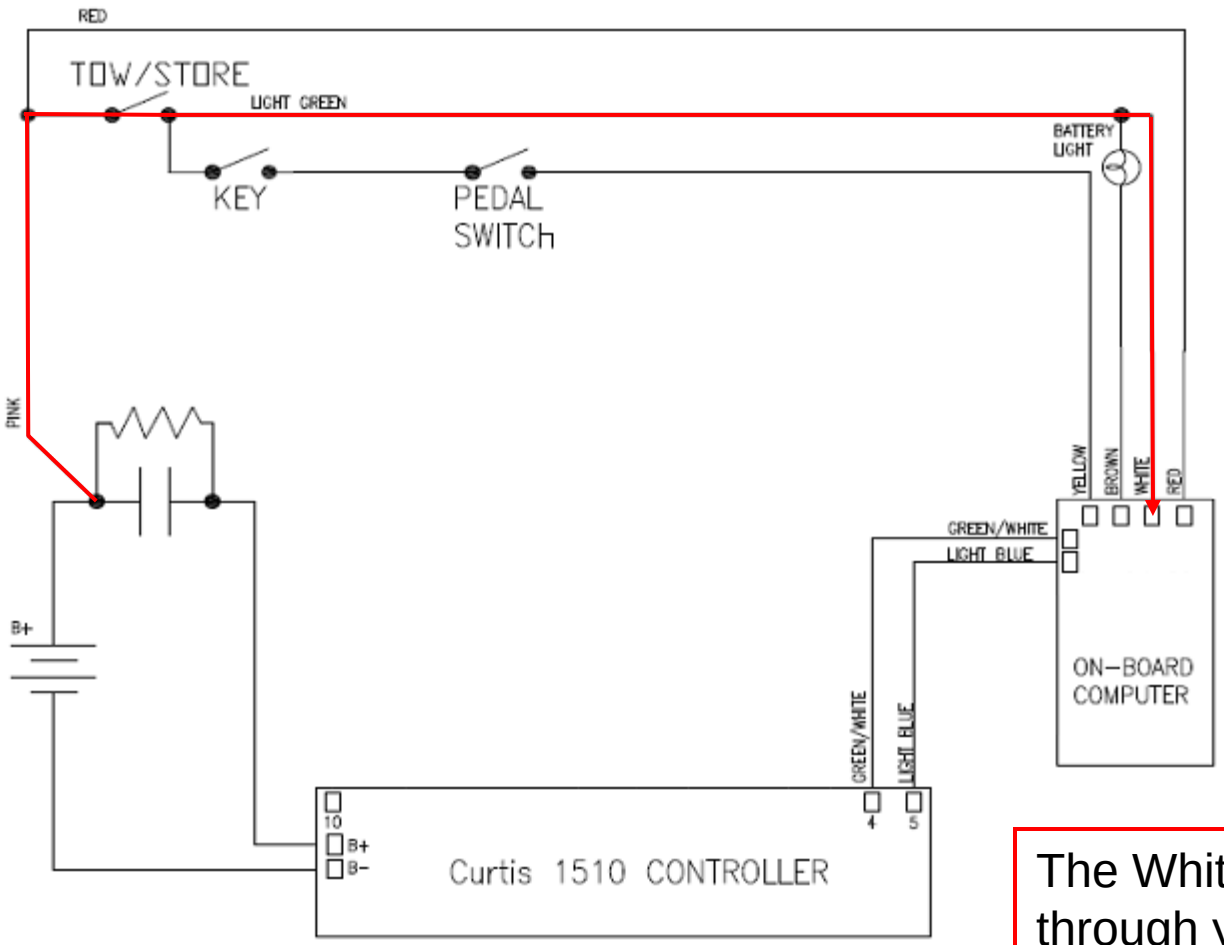
All of these wires measure battery positive.	



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

FSIP

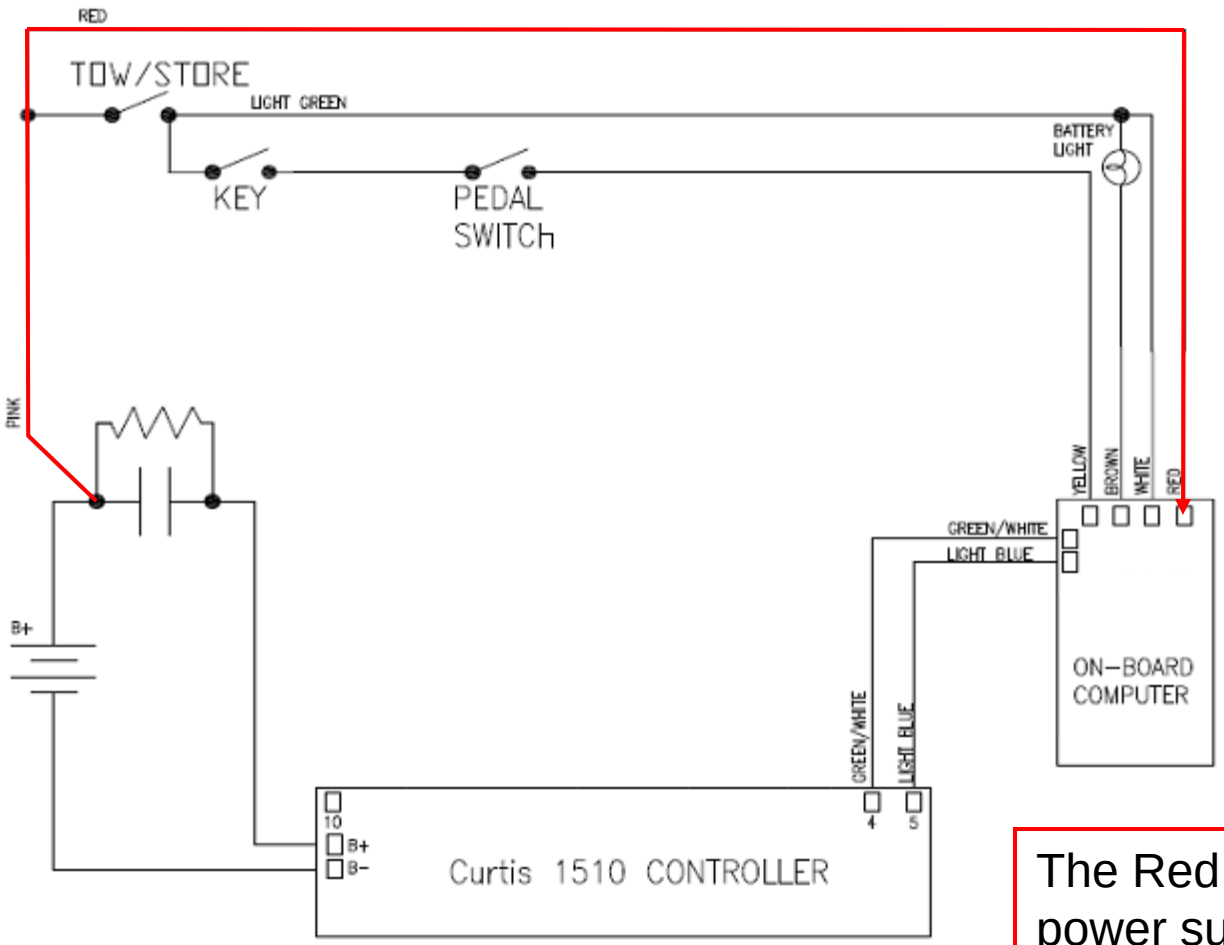
Back



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

FSIP

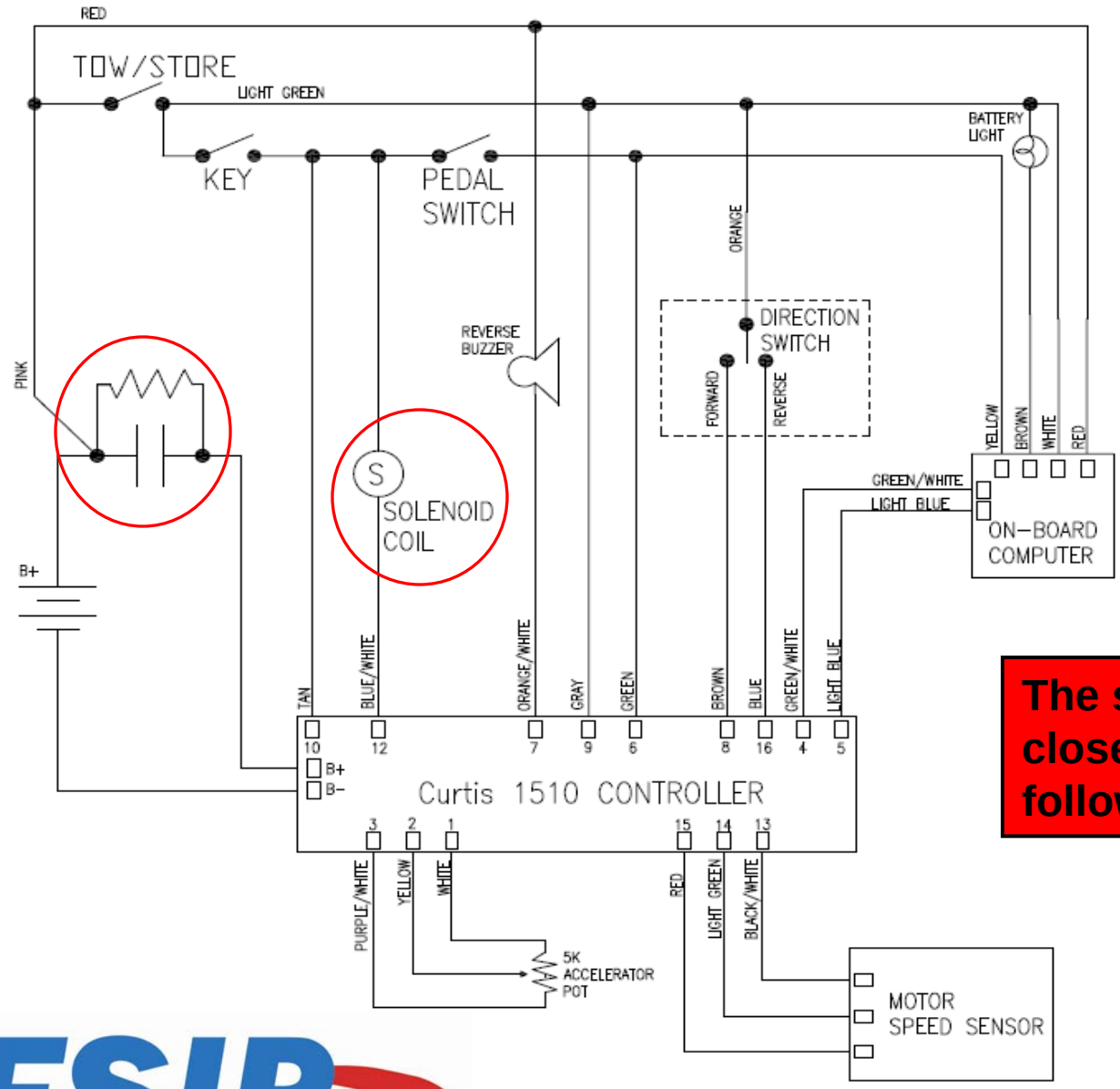
Back



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

FSIP

Back

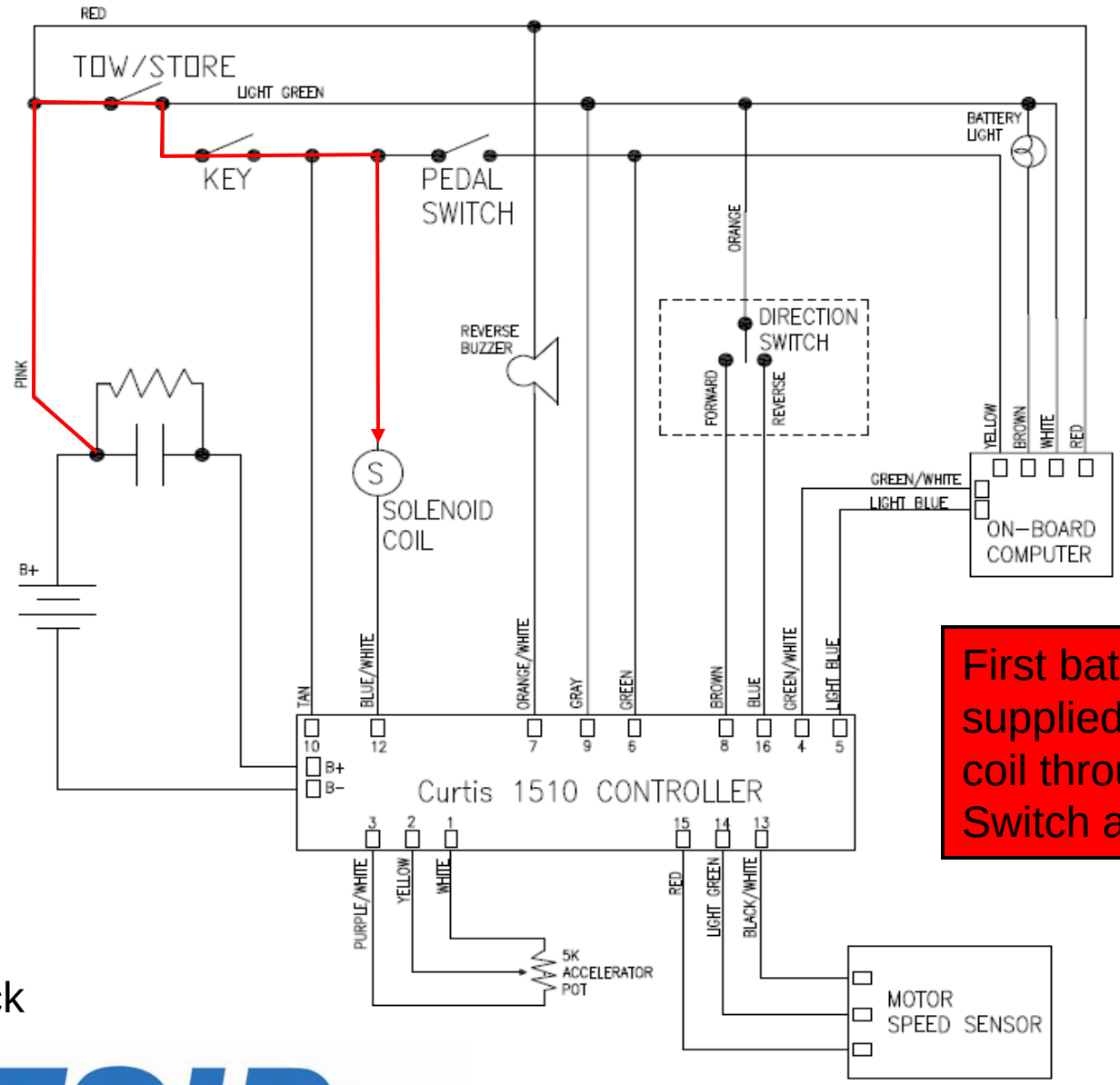


The solenoid is closed by the following steps

Next

FSIP

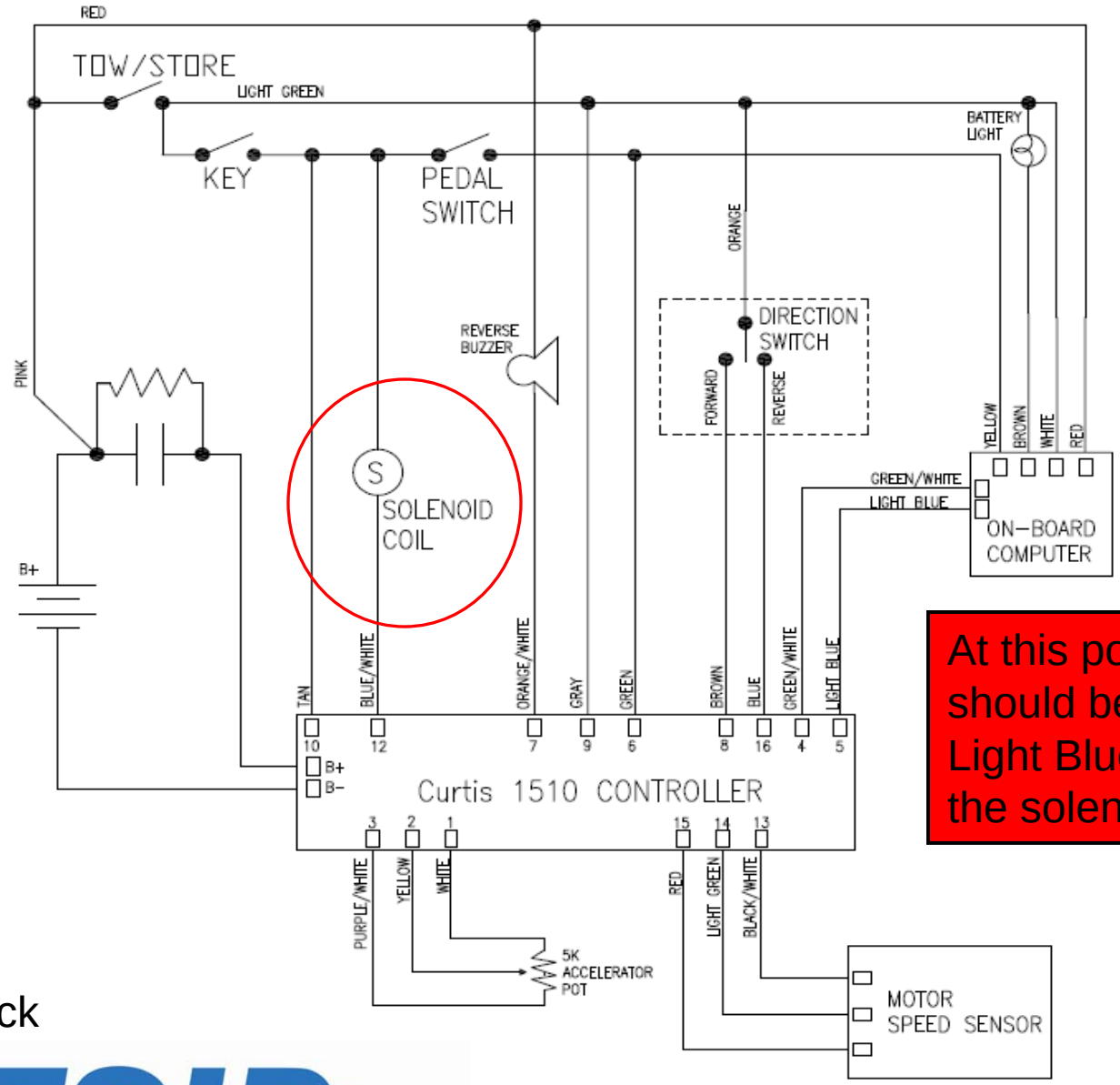
Back



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

Back

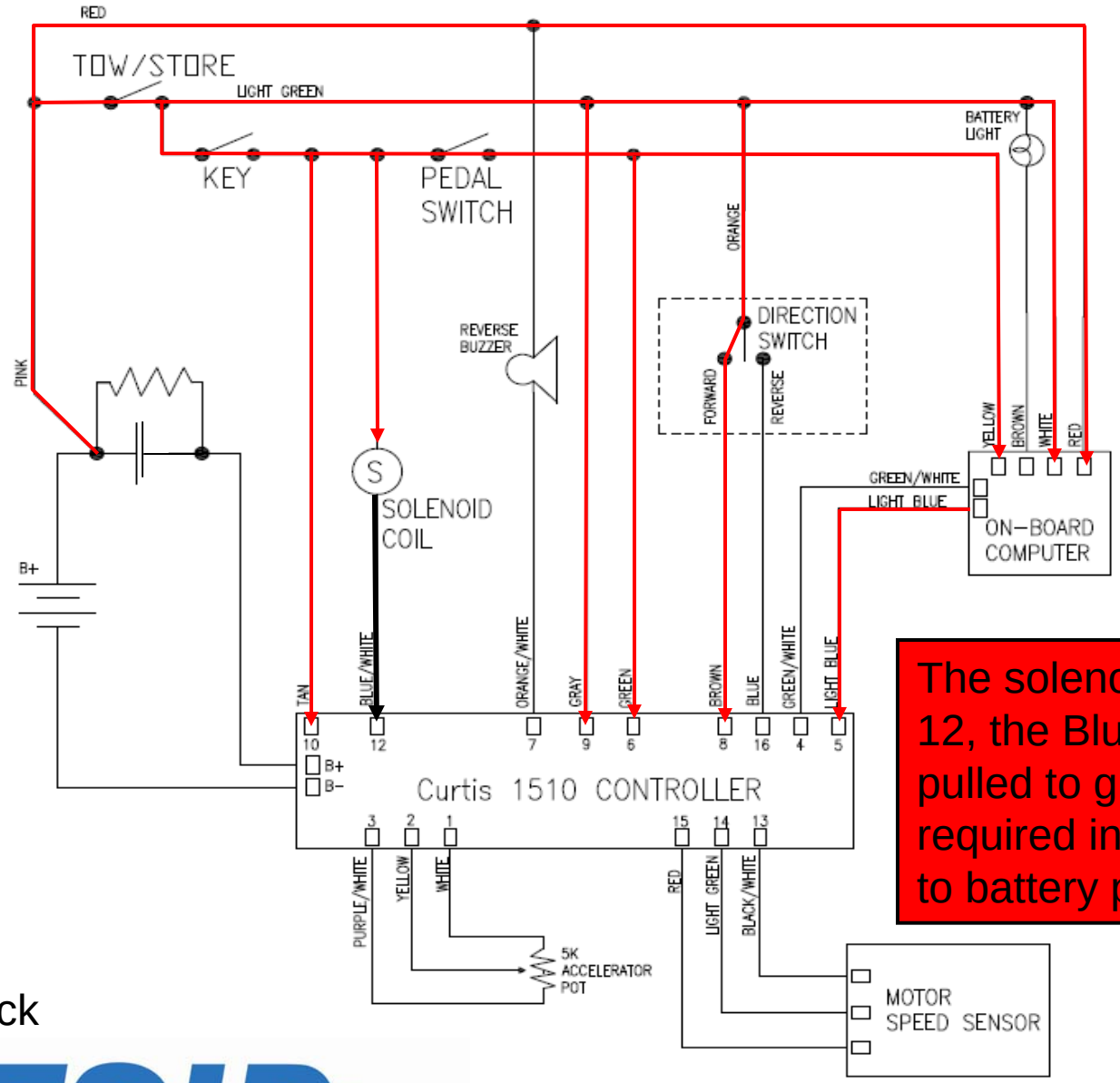
Next



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

Back

Next

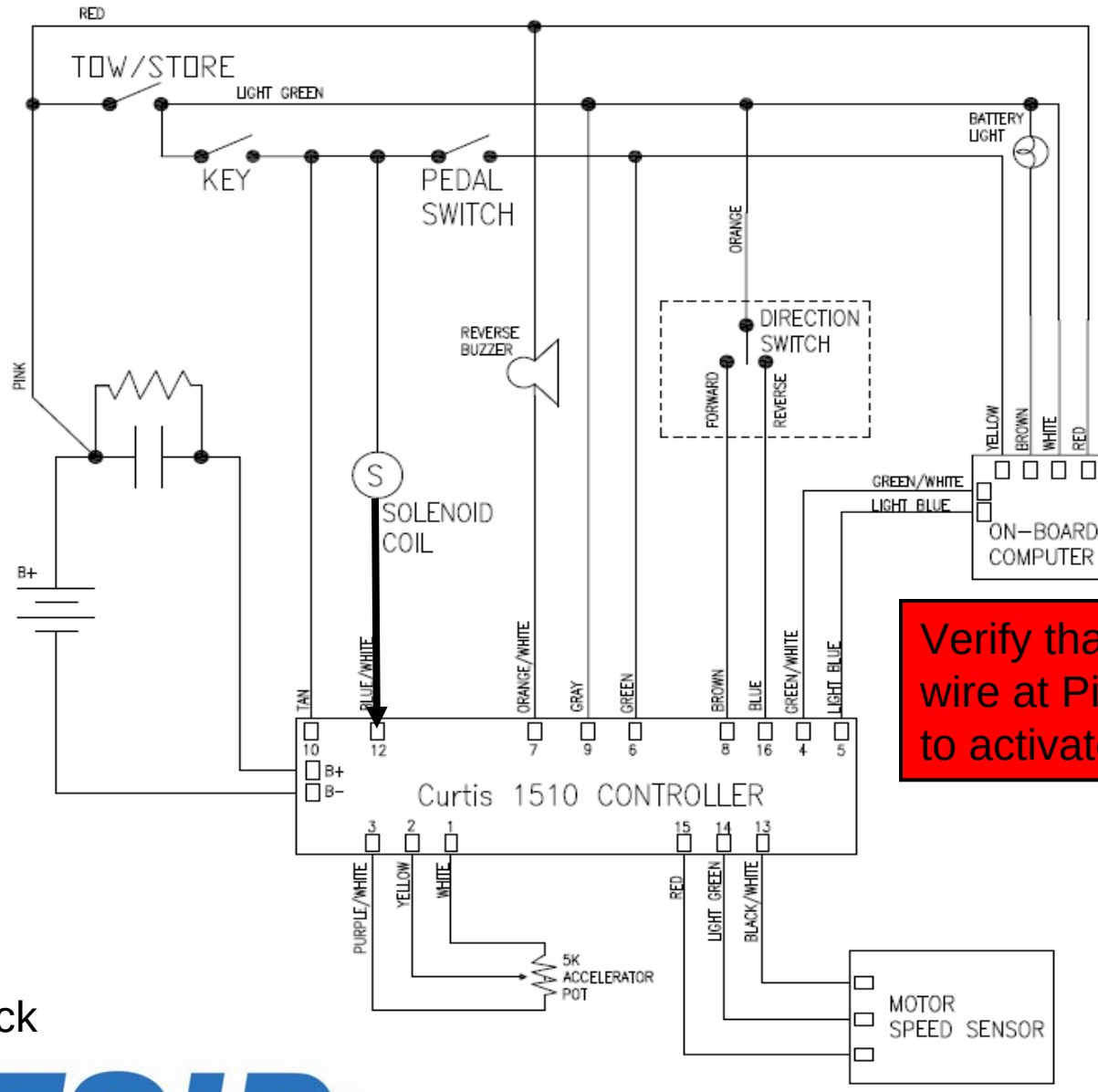


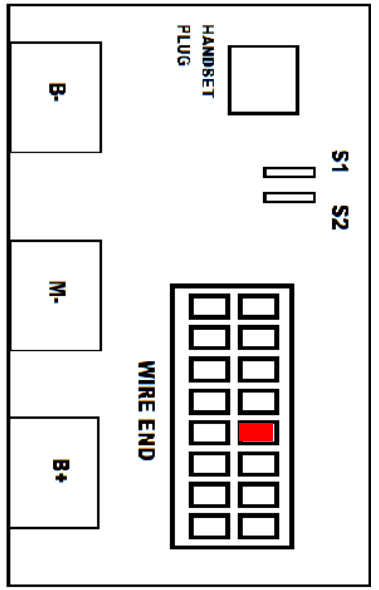
The solenoid is closed by Pin 12, the Blue/White Wire being pulled to ground only when all required inputs are connected to battery positive.

Back

Next

FSIP





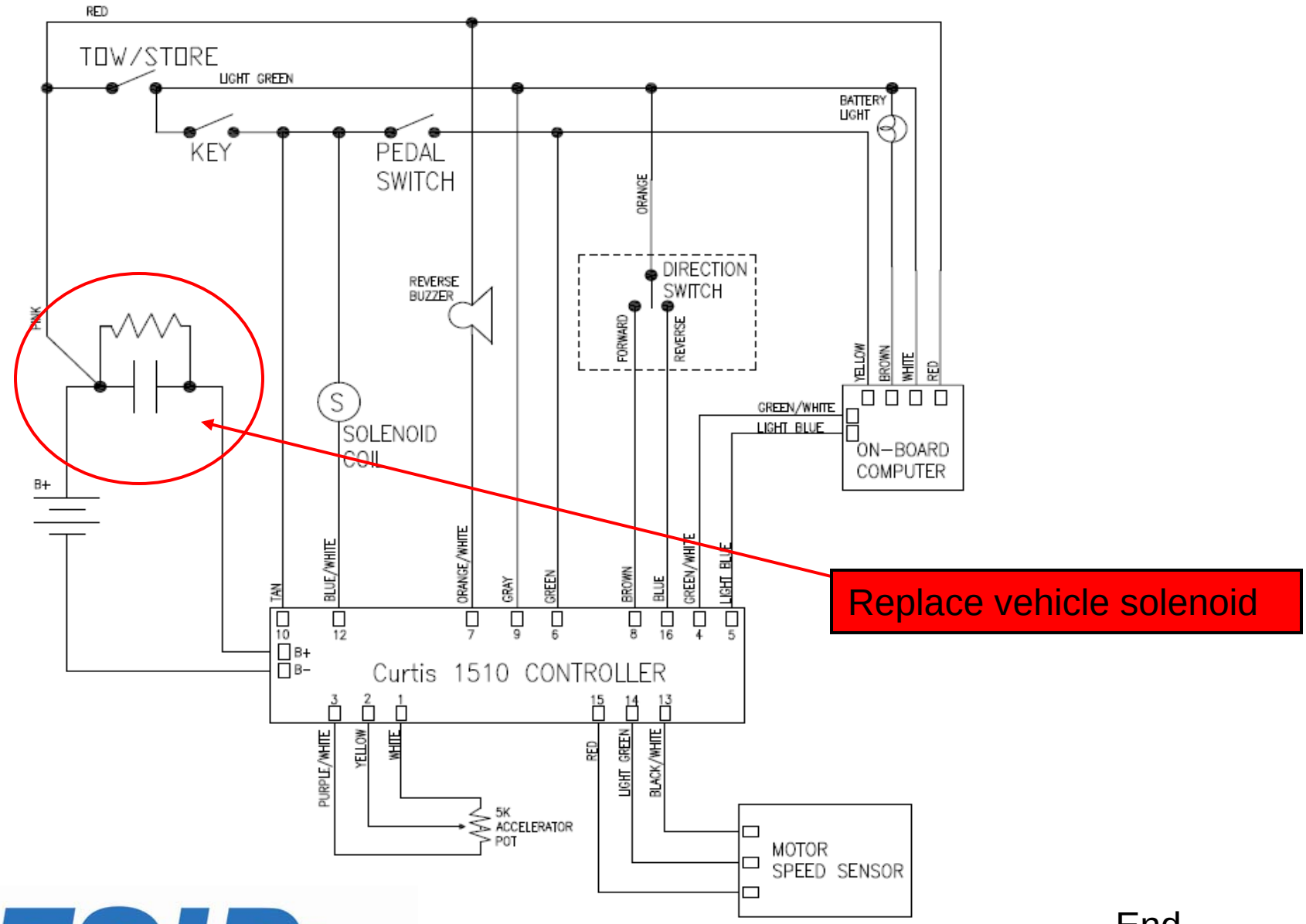
Verify that the Blue/White wire at Pin 12 is pulled low to activate the solenoid.

Back

FSIP

Pin 7 is NOT being pulled low

Pin 7 is being pulled low


RED
TOW/STORE
LIGHT GREEN
KEY
PEDAL SWITCH
BATTERY LIGHT
ORANGE
REVERSE BUZZER
DIRECTION SWITCH
FORWARD
REVERSE
PINK
S
SOLENOID COIL
YELLOW
BROWN
WHITE
RED
GREEN/WHITE
LIGHT BLUE
ON-BOARD COMPUTER
B+
TAN
BLUE/WHITE
ORANGE/WHITE
GRAY
GREEN
BROWN
BLUE
GREEN/WHITE
LIGHT BLUE
10
12
7
9
6
8
16
4
5
B+
B-
Curtis 1510 CONTROLLER
3
2
1
15
14
13
PURPLE/WHITE
YELLOW
WHITE
RED
LIGHT GREEN
BLACK/WHITE
5K ACCELERATOR POT
MOTOR SPEED SENSOR
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.

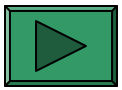
End

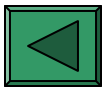
1. Tow/Run switch in the “Run” position.

2. Key switch in the “ON” position.

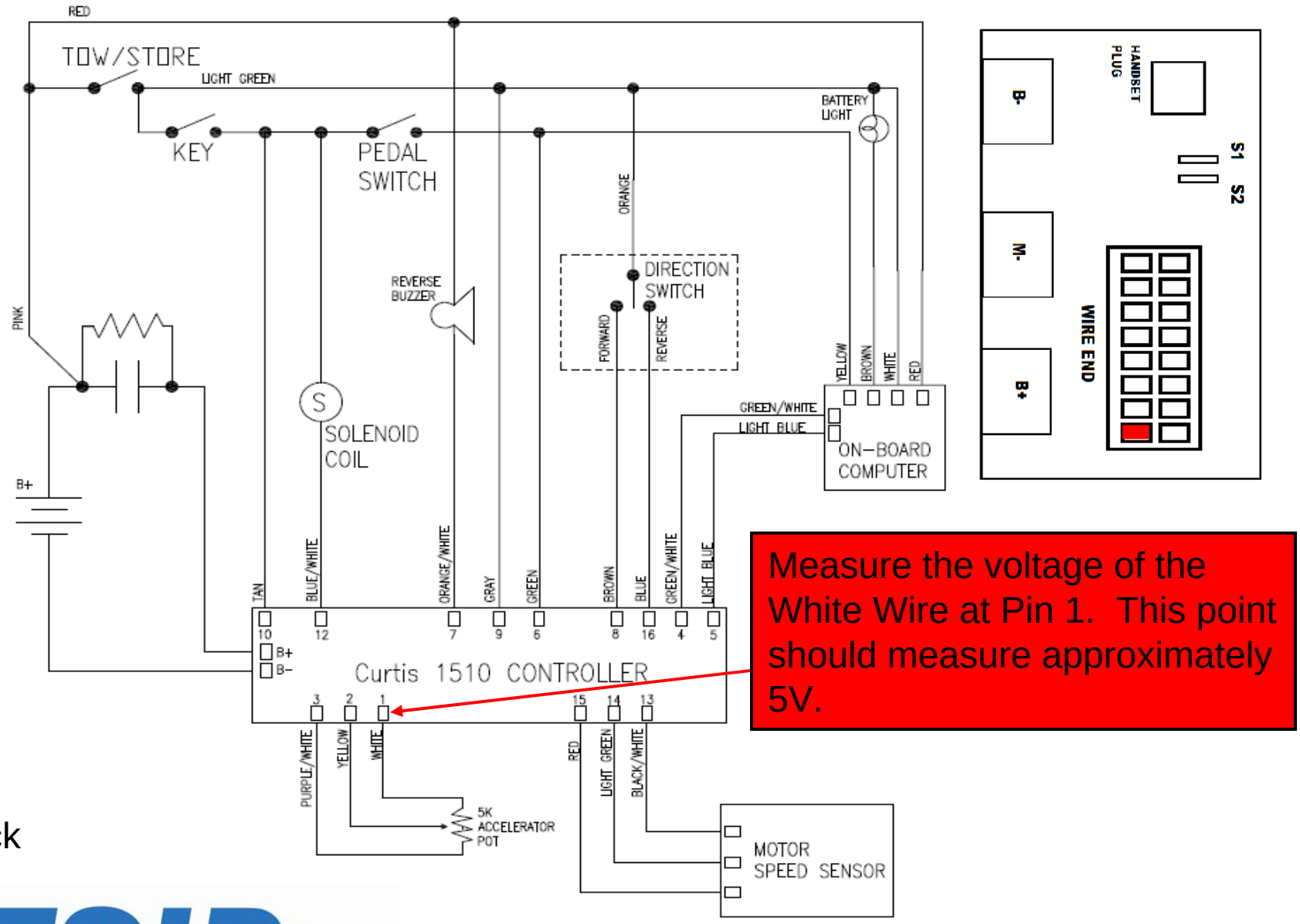
3. Forward/Reverse selector in “Forward” direction.

OK





Back



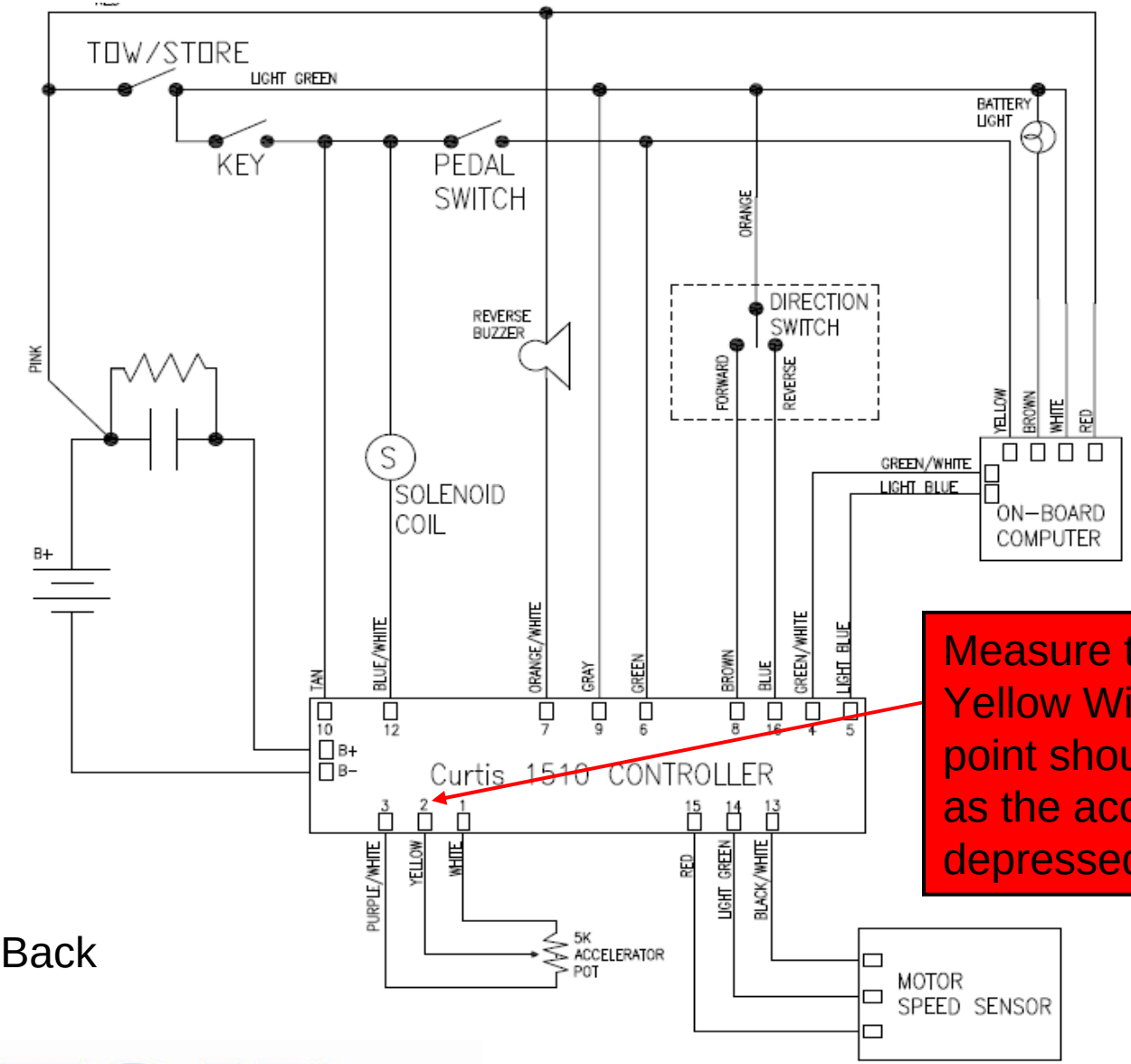
Measure the voltage of the White Wire at Pin 1. This point should measure approximately 5V.

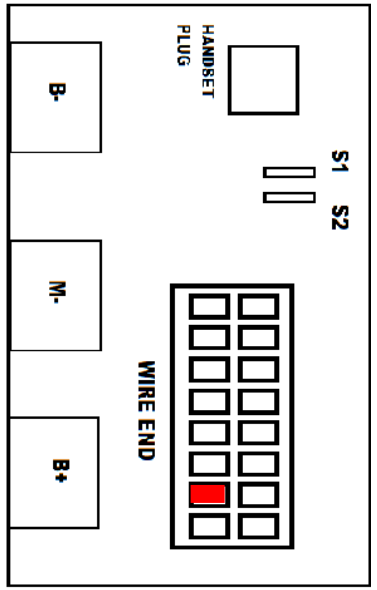
Back

FSIP

Pin 1 measures 5V.

Pin 1 does not measure 5V.





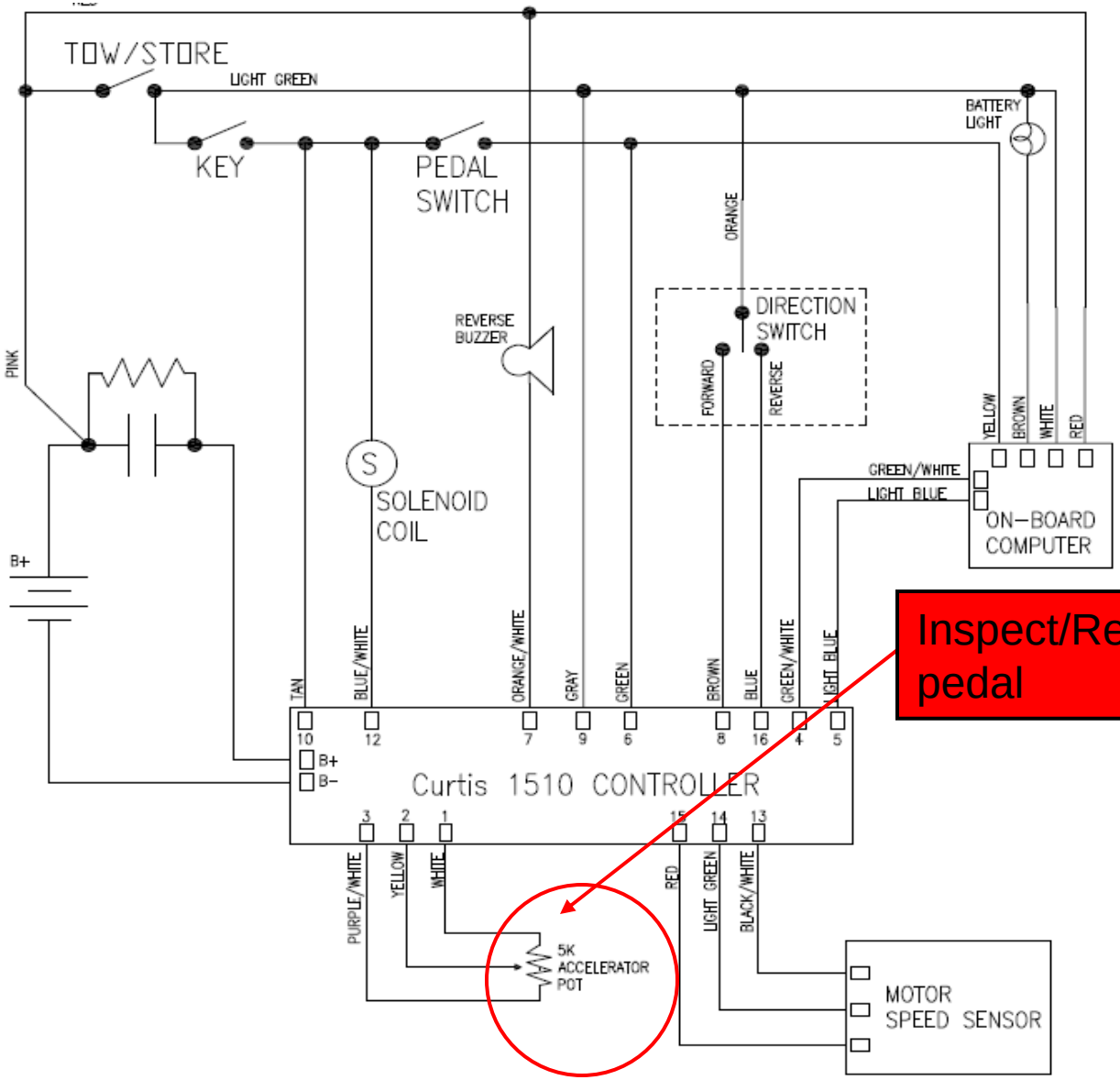
Measure the voltage of the Yellow Wire at Pin 2 this point should vary from 0V-5V as the accelerator pedal is depressed.

Back

FSIP

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.

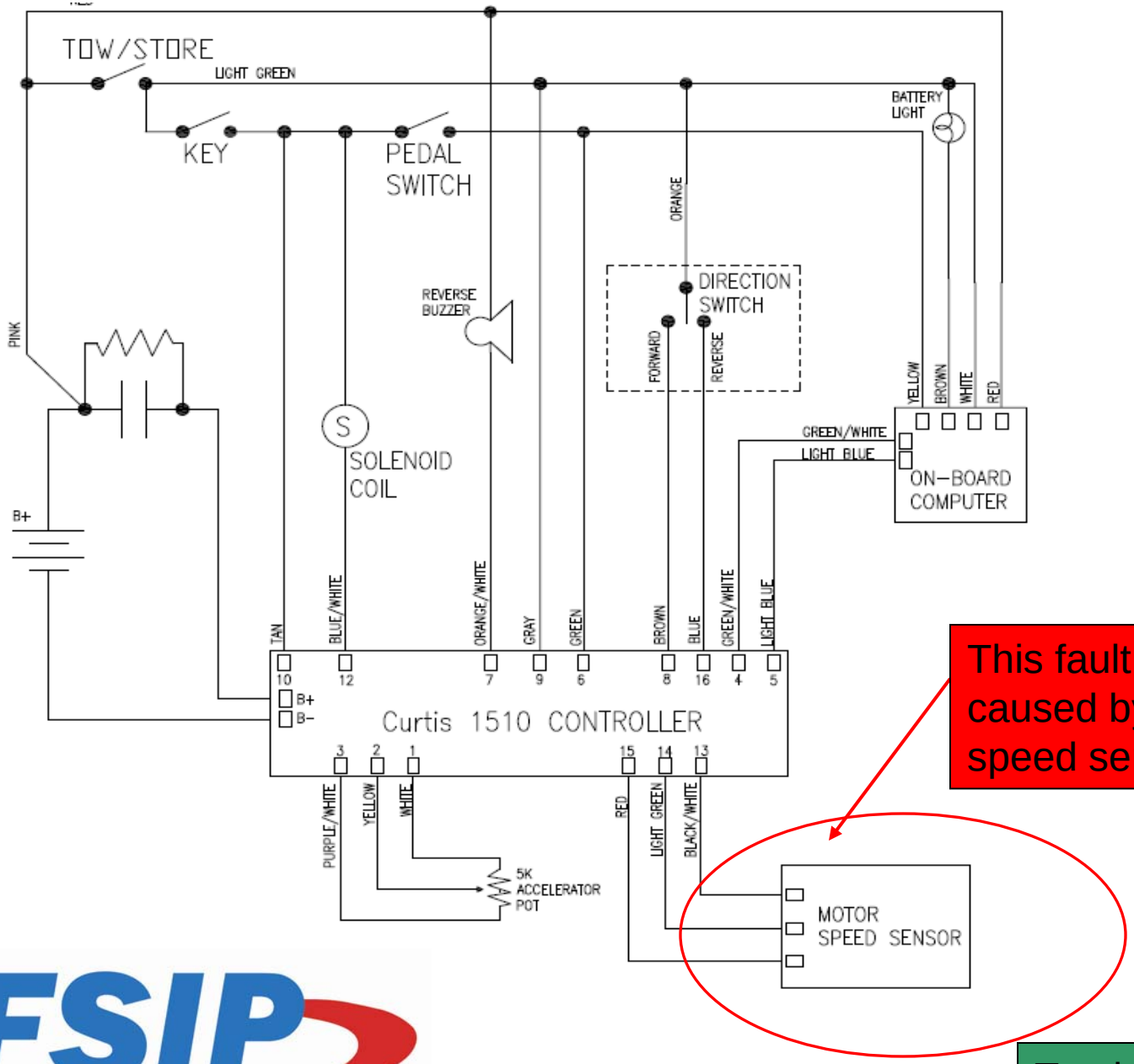
Back

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



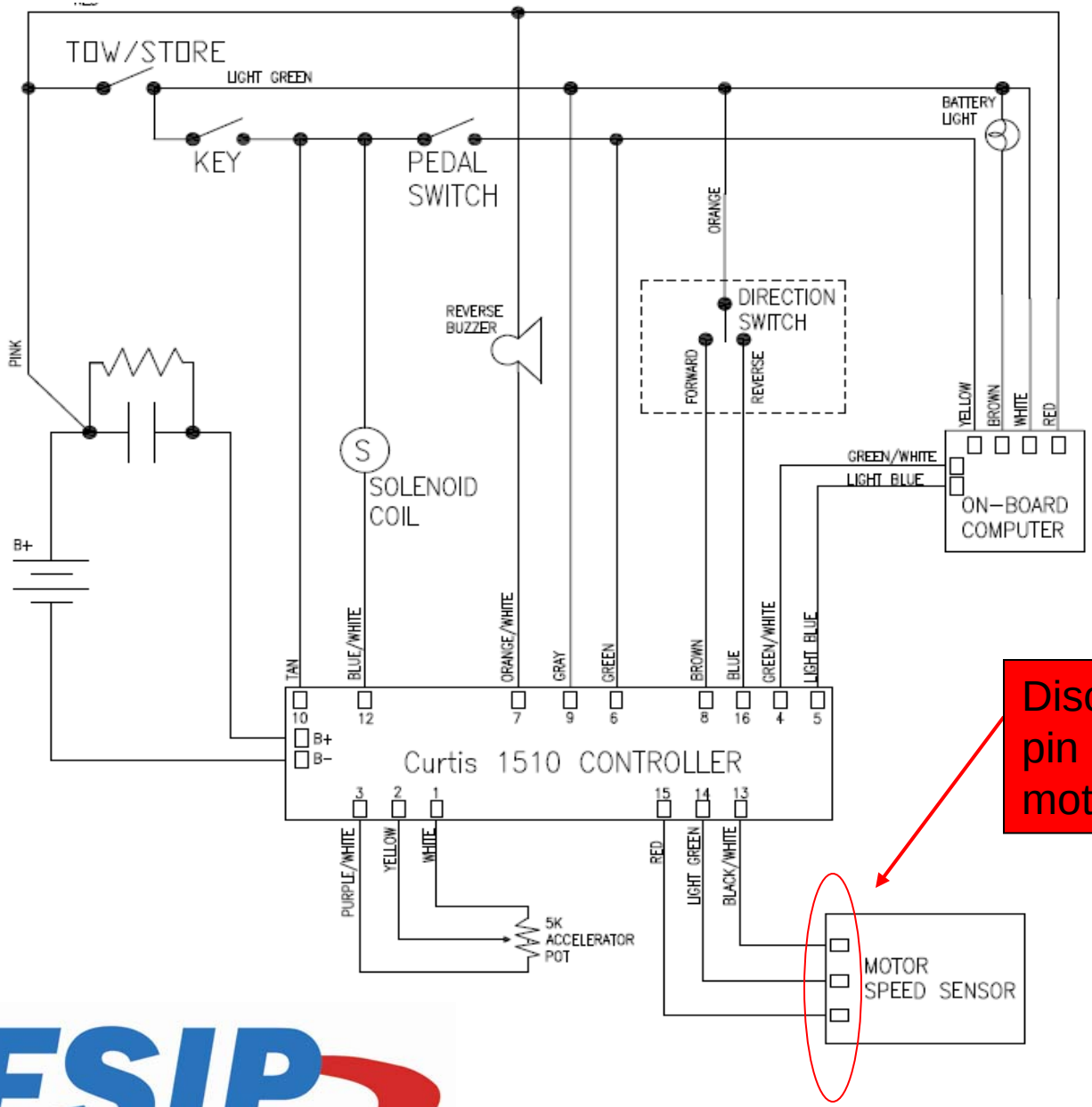
This fault may be caused by your motor speed sensor.

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.

Next



Disconnect the three-pin connector at the motor speed sensor

FSIP

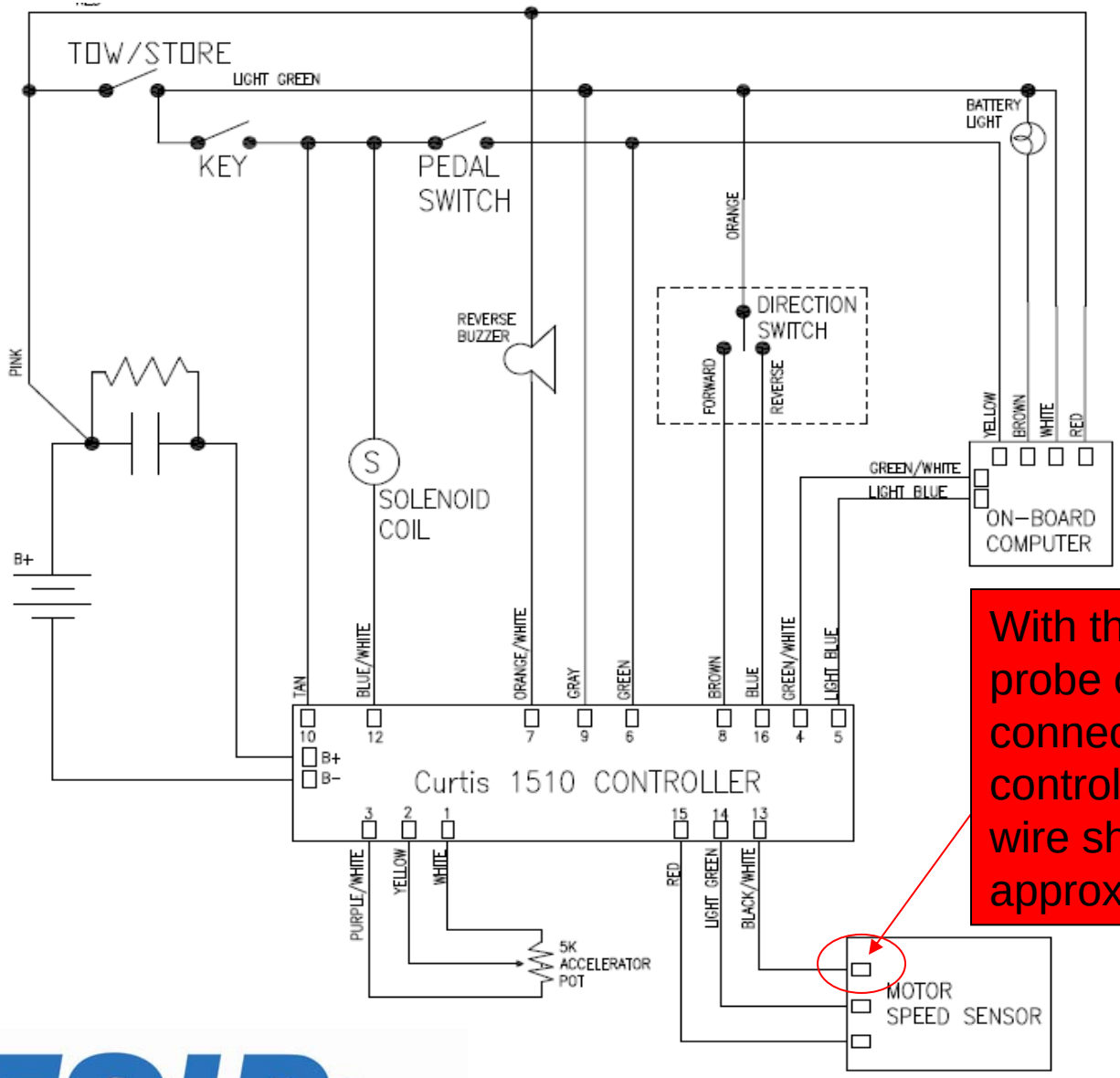
Next

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

1. Black/White Wire
2. Red Wire
3. Light Green Wire

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.

FSIP

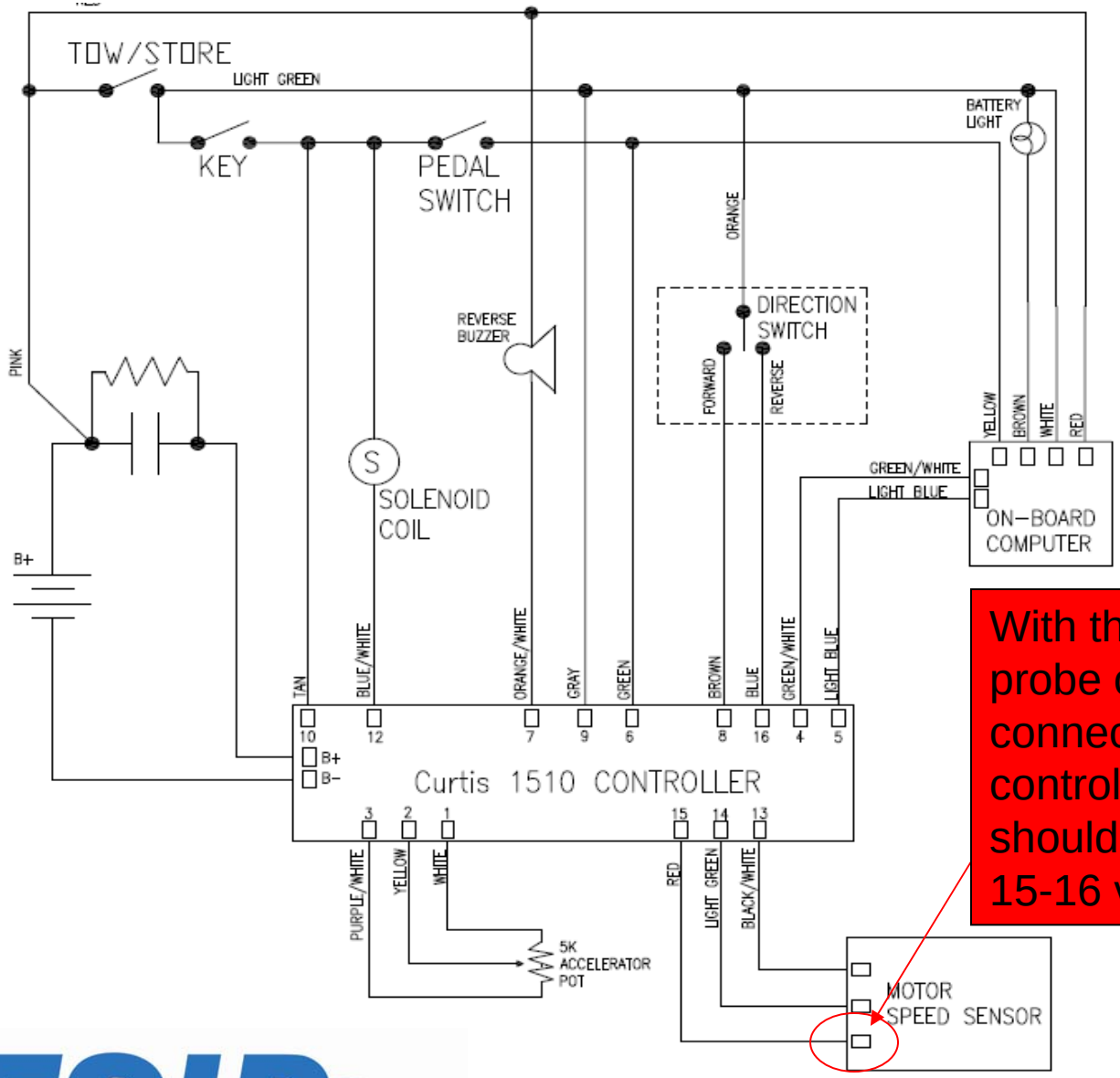
The Black/White wire measures approx. 0V.

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.

FSIP

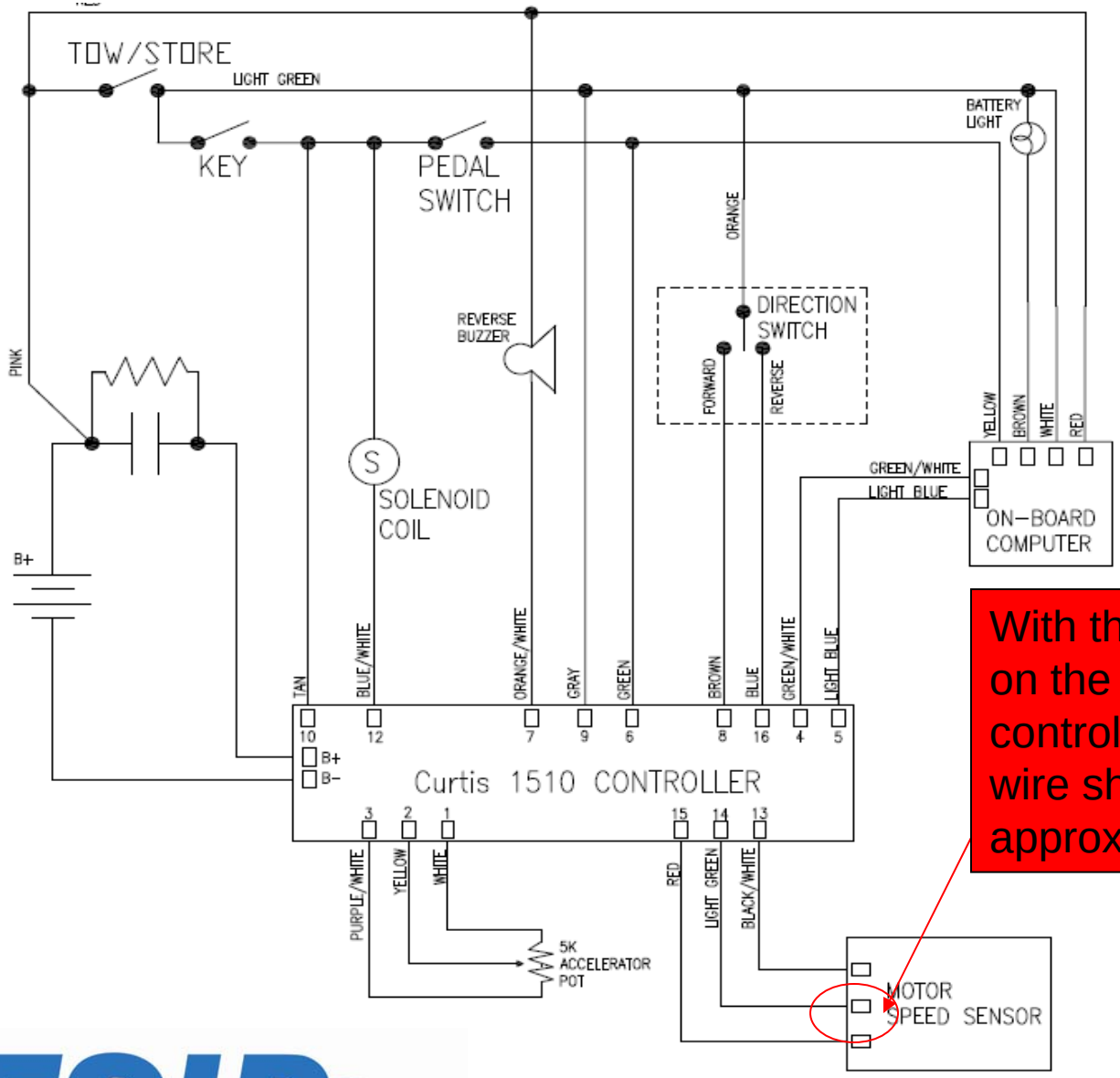
The Red wire measures less than 14V.

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.

FSIP

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