Club Car IQ Technical Information

**NOTE:**
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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.
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.
Pin 10 is supplied through your Run/Tow switch AND your Key Switch, verify this connection.
Pin 8 is supplied through your Run/Tow switch AND your Direction Switch, verify this connection.
Pin 6 is supplied through your Run/Tow Switch, Key Switch, and your Foot Pedal Switch verify this connection.
Pin 9 is supplied through your Run/Tow Switch verify this connection.
Pin 5 is supplied through your On-Board Computer.
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.
First battery positive is supplied to the solenoid coil through the Tow/Run Switch and the Key Switch.
At this point battery positive should be measured on the Light Blue wire attached to the solenoid.
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.
Pin 7 is being pulled low

Pin 7 is NOT being pulled low

Verify that the Blue/White wire at Pin 12 is pulled low to activate the solenoid.
Replace vehicle solenoid
Your controller is not working to OEM specifications. Contact Flight Systems Industrial Products at 1-800-333-1194 to have your controller remanufactured.
1. Tow/Run switch in the “Run” position.

2. Key switch in the “ON” position.

3. Forward/Reverse selector in “Forward” direction.
Measure the voltage of the White Wire at Pin 1. This point should measure approximately 5V.

Pin 1 measures 5V.

Pin 1 does not measure 5V.
Pin 2 does not vary between 0V-5V when moving the accelerator pedal.

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

Measure the voltage of the Yellow Wire at Pin 2 this point should vary from 0V-5V as the accelerator pedal is depressed.
Inspect/Replace accelerator pedal
Swap positions of the F1 and F2 cables on your controller, this will correct travelling in the wrong direction.
This indicates your battery state of charge is low, please re-connect your vehicle charger until battery warning light is extinguished.
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.
This fault may be caused by your motor speed sensor.

Testing the motor speed sensor.
1. Turn the vehicle Key Switch to the off position.
2. Tow/Run Switch in the Run position.

Next
Disconnect the three-pin connector at the motor speed sensor.
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.
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
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
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