FX302 Installation Instructions for the Club Car IQ

⚠ CAUTION 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 (will fit into original control's location).
2. Connect all motor wires (refer to supplied wiring diagram for proper connection).
3. Install supplied 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 switch is in the run position. 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 pin 2 of the control.

- Verify approximately 30 volts (or battery volts) on pin 6 of the control with the key on.
- 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).

Contactor closes but no movement

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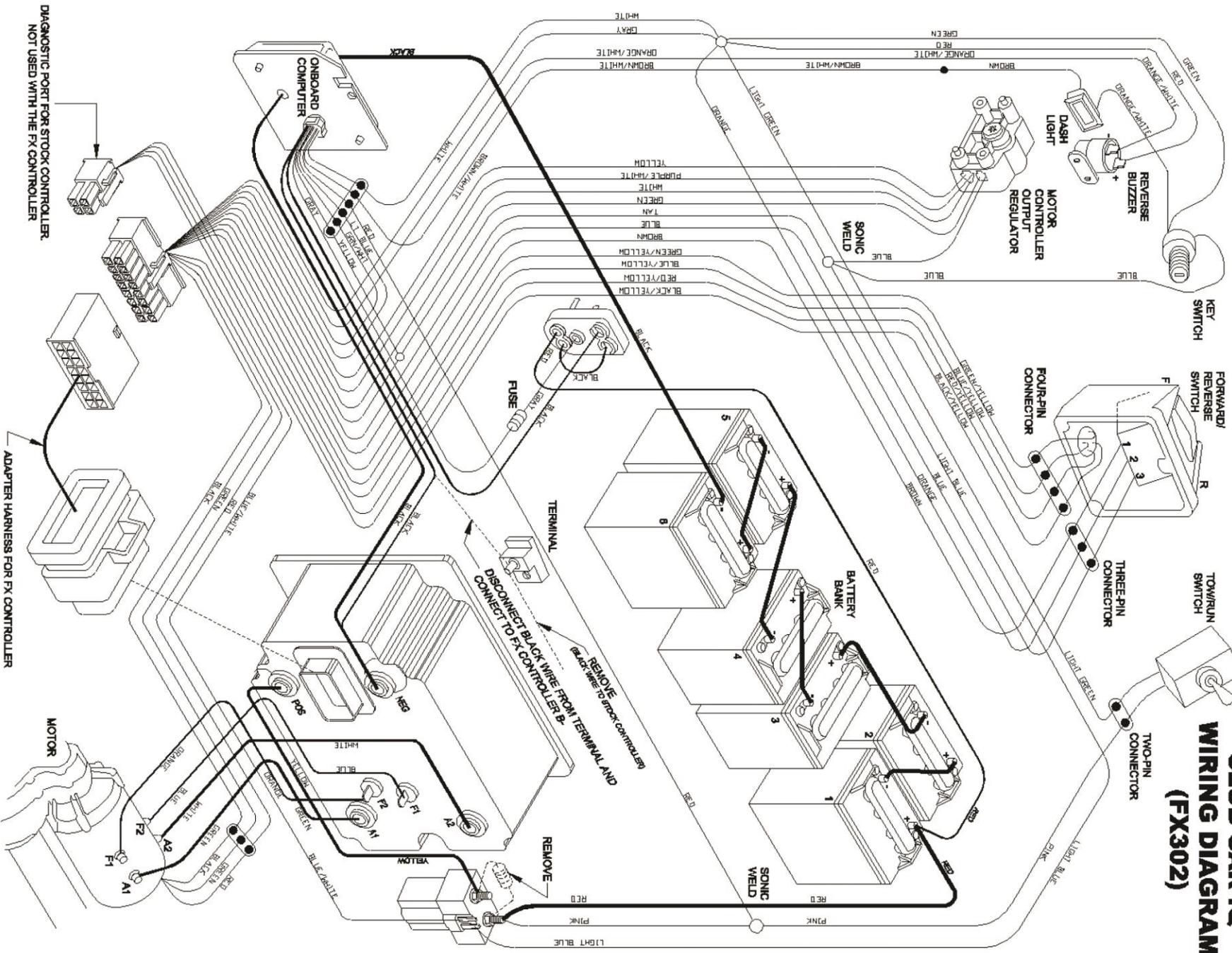- Verify approximately 3.5V to 0.5V on pin 7 of the control as the accelerator is slowly depressed.

FSIP

FLIGHT SYSTEMS INDUSTRIAL PRODUCTS

REV. C   02/20/17

CLUB CAR IQ WIRING DIAGRAM (FX302)

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DIAGNOSTIC PORT FOR STOCK CONTROLLER. NOT USED WITH THE FX CONTROLLER.

ADAPTER HARNESS FOR FX CONTROLLER

ONBOARD COMPUTER

BLACK

WHITE

BROWN/WHITE

MOTOR

F2
F1
A2
A1

F2
A2
F1
A1

ORANGE
BLUE
WHITE
ORANGE
GREEN
BLACK
RED

POS
NEG

TERMINAL

FUSE

BLACK
BLACK
RED
BLACK

DISCONNECT BLACK WIRE FROM TERMINAL AND CONNECT TO FX CONTROLLER B-

REMOVE
(BLACK WIRE TO STOCK CONTROLLER)

REMOVE

F2
F1
A2
A1

WHITE
BLUE
YELLOW
ORANGE
GREEN
BLUE/WHITE
YELLOW

SONIC WELD

RED
PINK
LIGHT BLUE
RED
PINK

BATTERY BANK
1 2 3 4 5 6

BLACK/YELLOW
RED/YELLOW
BLUE
GREEN/YELLOW
BROWN
BLUE
TAN
GREEN
WHITE
PURPLE/WHITE
YELLOW

MOTOR CONTROLLER OUTPUT REGULATOR

SONIC WELD

ORANGE
LIGHT GREEN
WHITE
GRAY
ORANGE/WHITE
BROWN/WHITE
BROWN
ORANGE/WHITE
RED
GREEN

BLUE

DASH LIGHT

REVERSE BUZZER

KEY SWITCH

BLUE

GREEN/YELLOW
BLUE/YELLOW
RED/YELLOW
BLACK/YELLOW
LIGHT BLUE
ORANGE
BLUE

FORWARD/ REVERSE SWITCH

F
R

FOUR-PIN CONNECTOR

THREE-PIN CONNECTOR

TOW/RUN SWITCH

LIGHT GREEN

TWO-PIN CONNECTOR

LIGHT BLUE
PINK
RED