



## Alltrax XCT Adapter Wire Kit for Function Knob Boxes: FN2 and FNKS Club Car IQ with 16 pin IQ Controller

File: DOC105-001-B\_Install Doc, FN Knob Box CC-IQ to XCT.pdf, Released Rev B, EC-081616  
**ALLTRAX PN: KIT-CBL511-004\_FN ADAPTER CC-IQ**

The XCT motor controllers have "User Inputs" or commonly called Personality Switches that allow for set user profiles or interactive adjustments of Speed or Regen while driving. XCT Controllers PRIOR to AUGUST 2016 may not have the FN 3-pin integrated connector in J4-J5-J6 connector well (See WEB SITE for serial number cutoff). This adapter kit is for all older controllers. Use TOOLKIT software (Version 3.0 or above) to enable the new Function Control features. Newer XCT controllers built ON or AFTER August 2016 will have the 3-pin connector to directly plug the FN boxes into the XCT controller J4-J5-J6.

Two different Function boxes are available, FN2 for dual pot Speed/Regen or FNKS with Mode Switch + Regen knob.

This adapter wire kit has 3 wires to plug into the OEM wire harness to gain access to the user inputs on the XCT. Install time for this wire harness adapter kit is approximately 5 minutes.

**FN2**  
**Dual Potentiometer**



**FNKS**  
**1-MODE Rotary Switch**  
**1-Potentiometer**

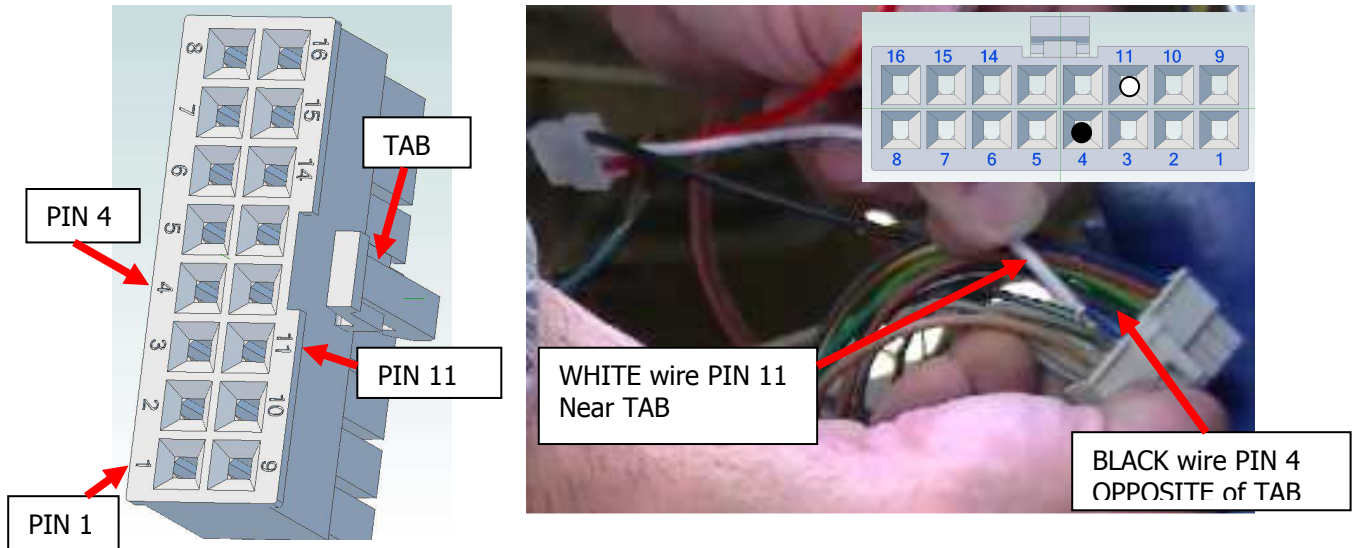


### **Steps:**

1. Disconnect positive battery terminal.
2. Carefully unplug the 16 pin connector from the XCT-IQ controller.



- At the rear of the connector, we will be inserting two wires into the connector, Pin 4 and Pin 11. However, some IQ carts (DS) may have a wire inserted into pin 4, although it's not used by the Club Car computer, special tools are required to remove the MOLEX pins from the 16 pin connector, so we can cut and splice this wire (about 6" back) and splice the BLACK FN knob box interface wire used for the XCT into PIN 4. Crimp a "dead end" crimp onto the other cut end to prevent it from shorting to something.



- The RED WIRE is KSI which can be connected to the small SOLENOID COIL POSITIVE terminal. Note: Some aftermarket solenoids have a different lug or faston, cut the supplied ring terminal off the red wire and crimp whatever fits your application for the POSITIVE COIL wire.
- Connect the 3-pin plug of the FN box to the controller interface wire you just installed.
- Reconnect battery terminal and **proceed to the FN Knob Box instructions.**

