



**Alltrax XCT Adapter Wire Kit for Function Knob Boxes: FN2 and FNKS
YAMAHA G19, G22 (called the GMAX) with 23 pin Controller
The Alltrax OEM 23 pin controller uses this same kit!**

File: DOC105-002-A_Install Doc, FN Knob Box YAM-G19 to XCT.pdf, Released Rev A, EC-051216
ALLTRAX PN: KIT-CBL511-005_FN ADAPTER YAM-G19

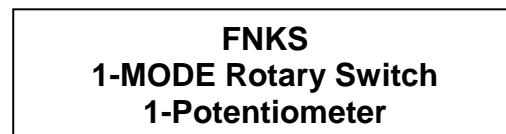
NOTE: There are two versions of motor controllers used on G22, a GE 23 pin connector and MORIC JAE 26 pin connector.

- **23 PIN Controller – you need this kit KIT-CBL511-005_FN ADAPTER YAM-G19**
- **26 PIN Controller – you need the other KIT-CBL511-006_FN ADAPTER YAM-YDRE for the JAE style 26 pin connector.**

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.

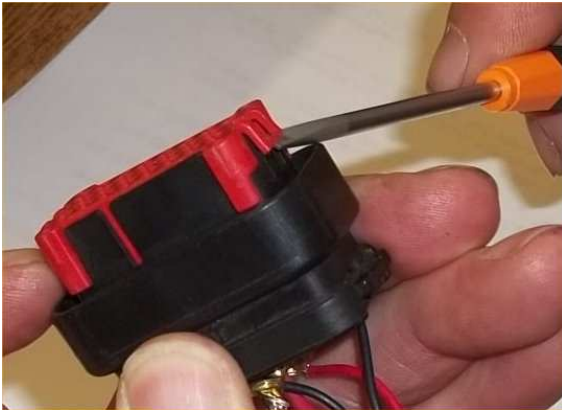
This adapter wire kit has 3 wires to plug into the carts OEM wire harness to gain access to the user inputs on the XCT. Install time for this wire harness adapter kit is approximately 5 minutes.



Steps:

1. Disconnect positive battery terminal.
2. CAREFULLY unplug the 23 pin AMP SEAL connector from the XCT-G19 controller (Assumes G19, G22, and ALLTRAX-OEM controllers with 23 pin GE connector).

3. The 23 PIN style connector (called AMP SEAL) uses a RED locking cap on the end of the connector. This cap is a BEAR to remove without damaging it so please read the instructions before trying to pry it off, it can break. A video is available on the Alltrax Web Site to show how it is done using a small screw driver as a leverage tool to unsnap the clips without damage.



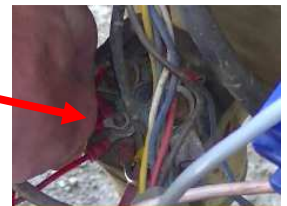
Very carefully pry the red clip upward, it will unclick. This tab can break to be careful!



Pull the red cap upward 1/4" – it will stop, this is the UNLOCKED POSITION

4. Once the RED locking cap is pulled up slightly (about 1/4"), we can insert the wires from the rear. The pins are clocked and keyed so must be inserted in the correct direction for it to properly lock.
 - a. Pin 17 is USER 1 profile WHITE WIRE used for REGEN.
 - b. Pin 18 is USER 2 profile BLACK WIRE used for either SPEED on the FN2 box, or MODE on the FNKS box.

2. Once the wires are inserted – push the locking RED cap down until it locks.
3. Reconnect the plug into the XCT with a firm push until it snaps locked into place.
4. Connect the red wire with ring terminal to the solenoid coil POSITIVE terminal.
5. Reconnector battery.
6. Reconnect battery terminal and **proceed to the FN Knob Box instructions.**



**PLUG WHITE WIRE INTO 17 AND
BLACK WIRE INTO 18**

