



Alltrax XCT Adapter Wire Kit for Function Knob Boxes: FN2 and FNKS YAMAHA YDRE with 26 pin MORIC Controller

File: DOC105-003-A_Install Doc, FN Knob Box YAM-YDRE to XCT.pdf, Released Rev A, EC-051216
ALLTRAX PN: KIT-CBL511-006_FN ADAPTER YAM-YDRE

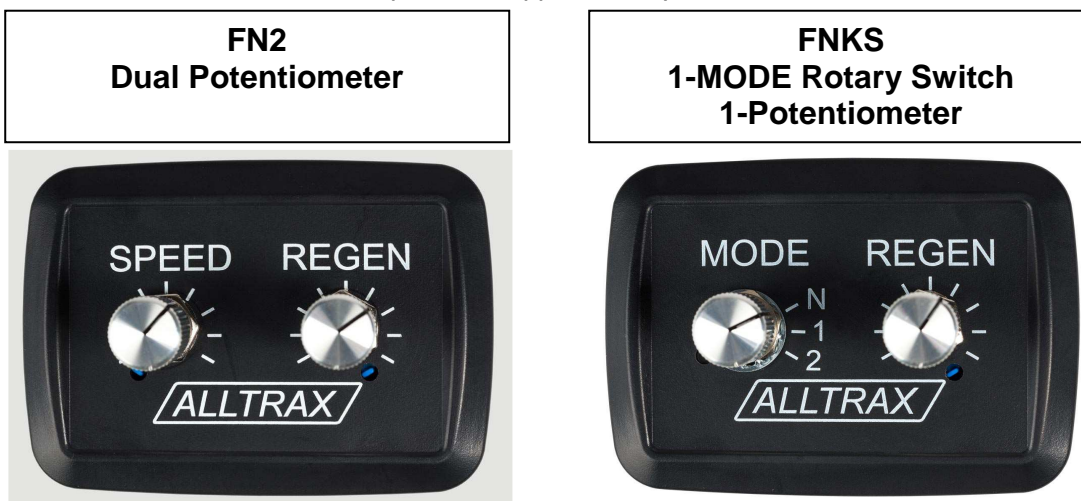
NOTE: There are two versions of motor controllers used on G22, a 23 pin connector and JAE 26 pin connector.

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

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 available are FN2 dual pot Speed/Regen [or] FNKS with Mode Switch + Regen knob.

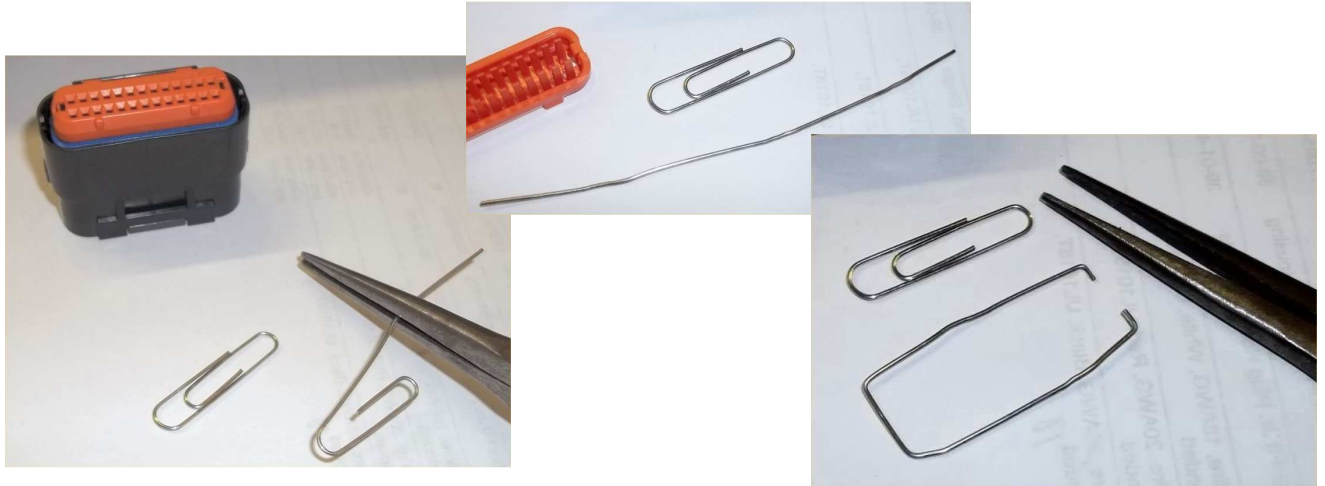
This adapter wire kit has 3 wires to plug into the carts OEM wire harness to gain access to the user inputs on the XCT. Install time for this wire harness adapter kit is approximately 5 minutes.



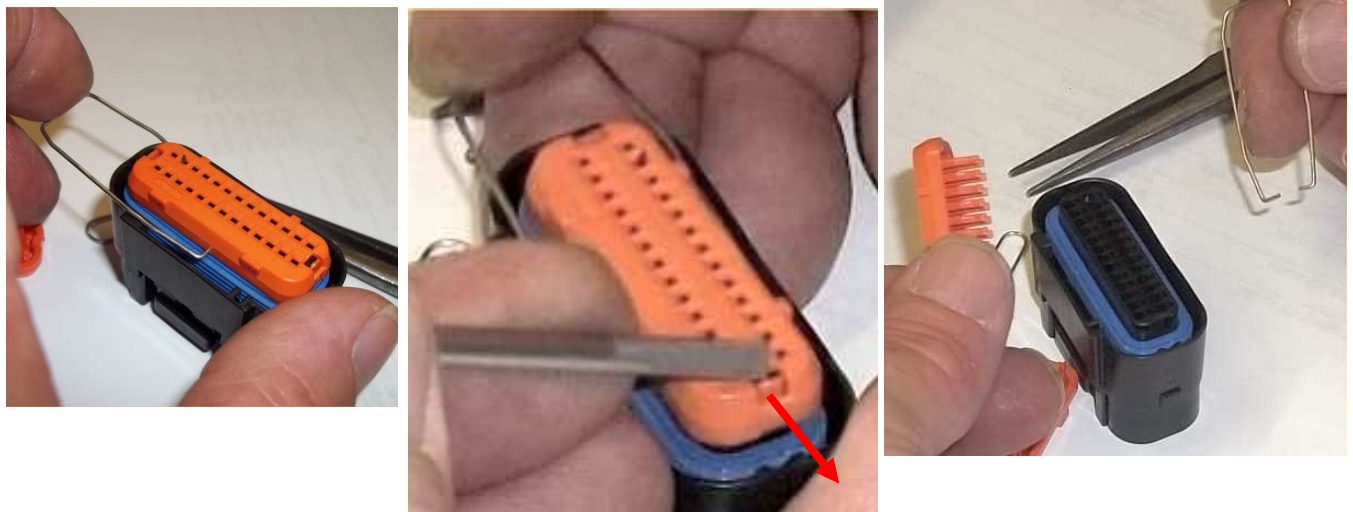
Steps:

1. Disconnect positive battery terminal.
2. CAREFULLY unplug the 26 pin JAE Moric connector from the XCT-YDRE controller.
3. The connector uses an ORANGE locking cap on the end of the connector. This cap is a BEAR to remove without damaging it so we include a new orange cap in your kit. However be warned remove the cap carefully so as not to break the holding tab features on the connector itself or the new cap will not lock! A video is available on the Alltrax Web Site to show how it is done using a simple paper clip as a leverage tool. (Yes ... a Paper Clip!).

4. Take a paper clip and using a needle nose – straighten it out, then bend into a U Shape about the width of the orange cap, then add two SMALL TIPS at a 90 degree as shown. This will fit below the connector cap and used as “leverage” when we release the side locking tabs.



- a. Insert the pry wire you just made under the orange cap edges as shown, about in the middle.
- b. Use a small jeweler’s screw driver and carefully press outward on the locking tabs – the lock will unsnap and the orange cap will pop up slightly on that end. Do the same for the other side and the cap will come off completely.



5. Once the orange locking cap is removed, we can insert the wires from the rear. The back of the connector has numbers for the rows of pins. (Get out your coke bottle reading glasses...)
 - a. Pin 17 is USER 1 profile WHITE WIRE used for REGEN.
 - b. Pin 16 is USER 2 profile BLACK WIRE used for either SPEED on the FN2 box, [or] MODE on the FNKS box.
6. The pins are clocked and keyed so must be inserted in the correct direction for it to properly lock.
7. Press the NEW orange cap onto the connector to lock in the pins.
8. Reconnector battery.
9. Reconnect battery terminal and **proceed to the FN Knob Box instructions.**