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YAMAHA YDRE
Moric to
Curtis 1268 Conversion

Installation Instructions





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Before you start…turn Tow/Run switch to Tow and disconnect the + side of the battery.

Note: If you have motor part number JU2-H1890-21-00 which was used in the carts from 2007 to February 2012. It is advisable to replace your motor brushes with Yamaha part number JC1-H7104-09-00. If this is not implemented, your top speed will be decrease by 7 mph after 5000 to 7000 amp hours of operation.

Parts List

Qty	Description	FSIP Part Number
1	Motor Control	76-12685504CKB
1	Wire Harness	62-12685501YAMW
1	Adaptor Plate	62-12685501YAMP
1	FSIP Hardware Kit	62-12685501YAMH

Recommended Tools:

1. ¼" drive wrench with 6" extension
2. 7, 10, 13, 14mm, and 3/8" sockets
3. 5/32 Allen wrench

A. Removing Moric Controller:

1. Jack up rear end of car, making sure that both wheels are off the ground
2. Make sure the key switch is off and the Tow/Run switch is in the Tow position.
3. **Disconnect the battery positive cable at the battery terminal.**
4. Remove the basket and any other parts obstructing rear access panel. Remove Rear Access Panel.
5. Label all wires going to the controller as indicated in **Figure 1**.
6. Remove all wires and the mounting bolt for the harness (**Figure 1-C**).
7. Remove the three screws securing the controller to the cart. Remove the controller. (**Figure 1-D**).

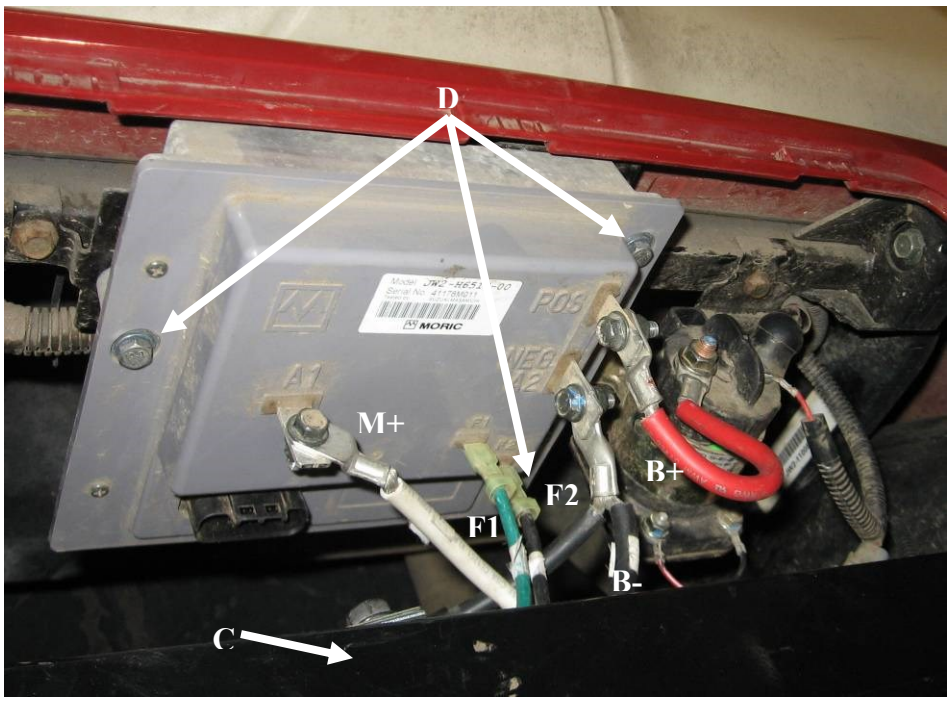


Figure 1

B. Installing the 1268 control:

1. Attach the mounting plate to the cart in the location of the former controller using the three flat head screws provided and a 5/32" Allen wrench (**Figure 10**).



Figure 10

2. Screw the 1268 controller to the mounting plate using the four 20mm hex head screws and the 10mm socket.

3. Remove the black 6 gage wire between the B- connection and the motor A2 post. Attach one terminal of the 2 gauge wire provided with the kit to the motor A2 post (**Figure 11**).
   Note: Wire in picture is capped off.

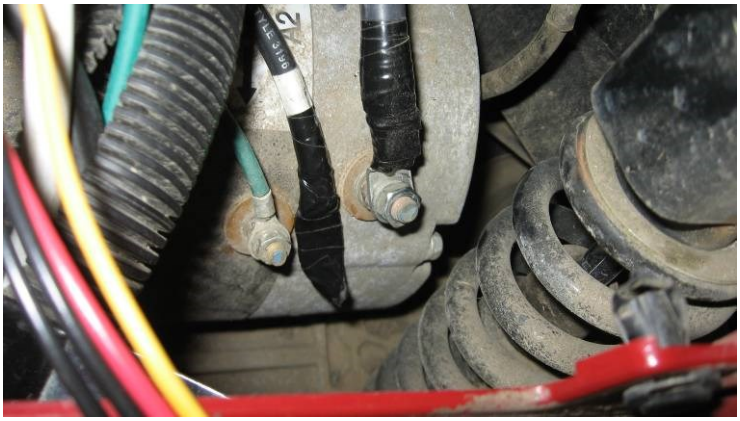


Figure 11

4. Install the Walkaway Harness on the bottom right of the mounting plate. Use the 7mm socket to drive the 10mm hex head screw through the metal tab on the Walkaway Harness relay, the plastic tab on the Walkaway Harness fuse, and into the threaded hole in the mounting plate, in that order (**Figure 12**).
5. Attach the yellow wire with the ring terminal coming from the Walkaway Harness to the left side of the contactor (**Figure 13-A**).
6. Attach the red wire with the ring terminal coming from the Walkaway Harness to the right side of the contactor (**Figure 13-B**).
7. On the contactor coil, remove the lower left red ring terminal from the coil. Insulate the terminal by taping or cutting the terminal off and capping it (**Figure 13-C**).
8. Take the ring terminal hanging off the adaptor harness that is provided, and attach it to the contactor coils lower left post where the red ring terminal was just removed. (**Figure 13-D**).

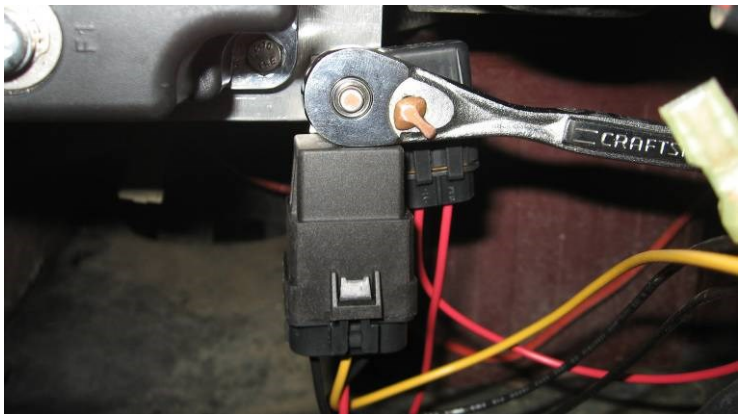


Figure 12

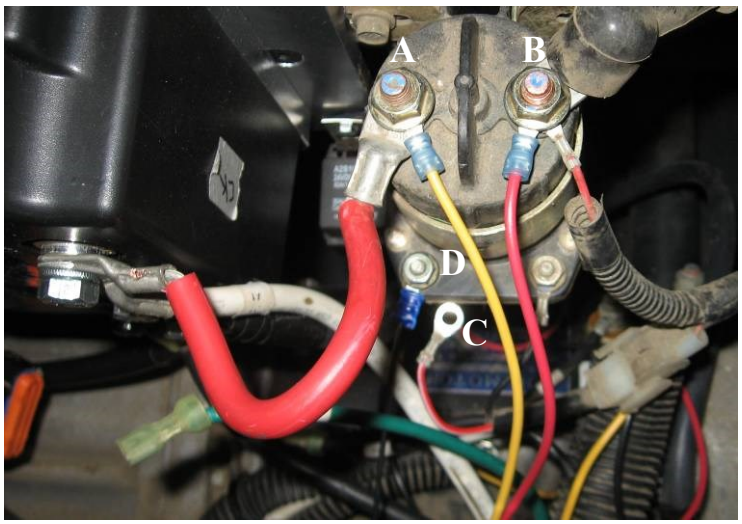


Figure 13

9. Use a wire cutter to remove the two female spade terminals coming from the motor field posts (**Figure 14**).
10. Remove 10mm (3/8") of insulation from both wires using a wire stripper. Using a crimping tool, crimp the two ring terminals provided on to the wires coming from the motor field posts (**Figure 14**).

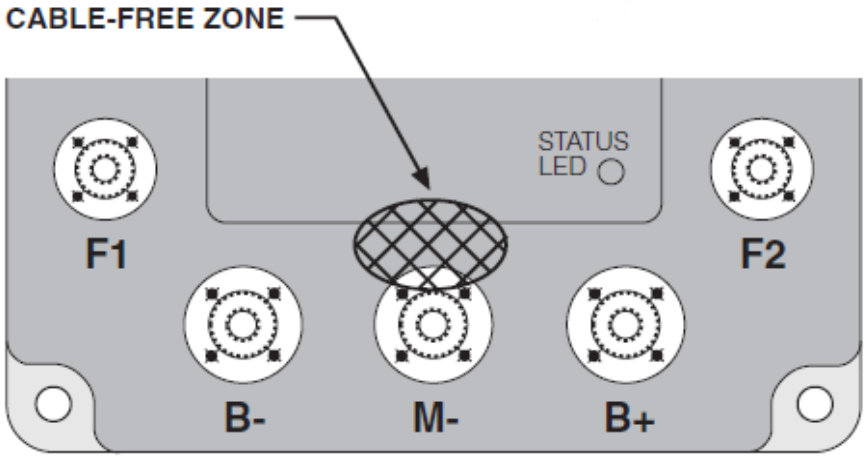


Figure 14

11. Drill out the center of the B-, B+, and M+ ring terminals that were attached to the former controller using the following technique. Firmly fasten a Vice-grip to the terminal crimp and secure it firmly to avoid torquing. Select the smallest drill bit available that will **not** fit through the ring terminal. Use it to carefully drill through each ring terminal slowly and without applying significant force. Repeat this process with incrementally larger drill bits until an 8mm (5/16") internal diameter has been made in each terminal. The smaller the increments between drill bits the less likely the terminal is to be damaged.

    Note: The following five steps, it is critical that none of the terminals touch each other.

12. Using the 13mm bolt and lock-washer provided, secure both the A1 ring terminal and the B+ ring terminal to the B+ controller post.
13. Using the 13mm bolt and lock-washer provided screw the loose end of the 2 gauge motor A2 wire to the M- controller post taking care not to cover the cable free zone.



14. Using the 13mm bolt and lock-washer provided screw the B- ring terminal to the B- controller post.
15. Using the screw and lock-washer provided secure the F2 black wire ring terminal to the F2 post on the controller.
16. Using the screw and lock-washer provided secure the F1 green wire ring terminal to the F1 post on the controller.
    Note: no wires or terminals can stick above the controller or they will interfere with the access cover.
    Note: if the cart direction is incorrect reverse F1 and F2.
17. Plug the 24 pin and 6 pin connectors in to the controller. Plug the 26 pin connector in to the vehicle harness. Plug the 4 pin connector in to the 4 pin connector from the Walkaway harness. Use zip ties to secure all loose wires well above where they could get caught in debris being driven over.

18. Check the following, shown on **Figure 15**.

A- Vehicle connector	G- contactor top has yellow and red wires from Walkaway Harness
B- 2 controller connectors	H- adaptor harness ring terminal on contactor bottom left
C- Walkaway harness connector	I- red contactor wire taped
D- Black wire on F1	J- Walkaway harness bolt, relay, and fuse.
E- Green wire on F2	original motor negative wire taped and secured out of the way (not shown)
F- White and Red wire on B+	

19. Reconnect the positive battery cable from the Contactor to the battery.

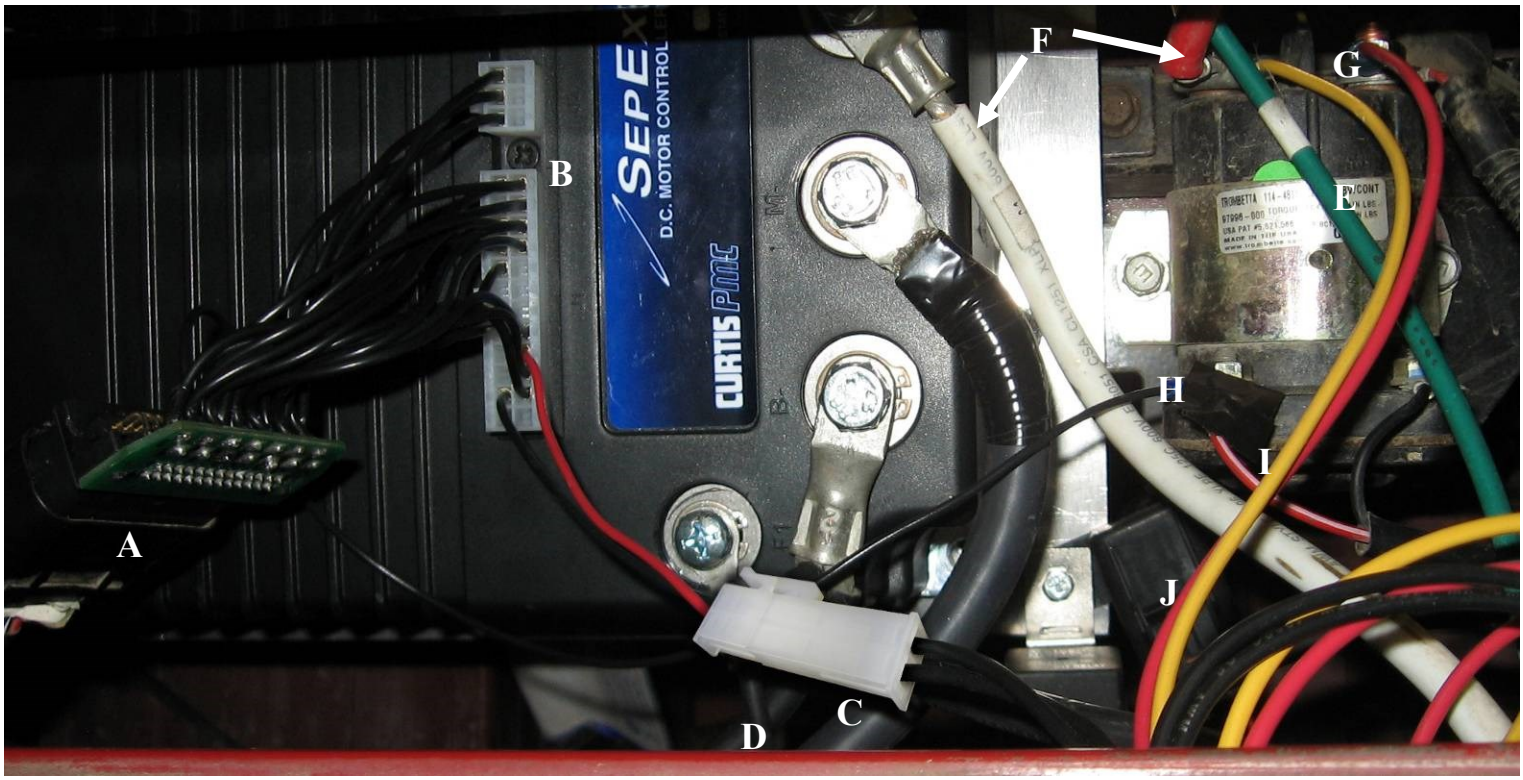


Figure 15