

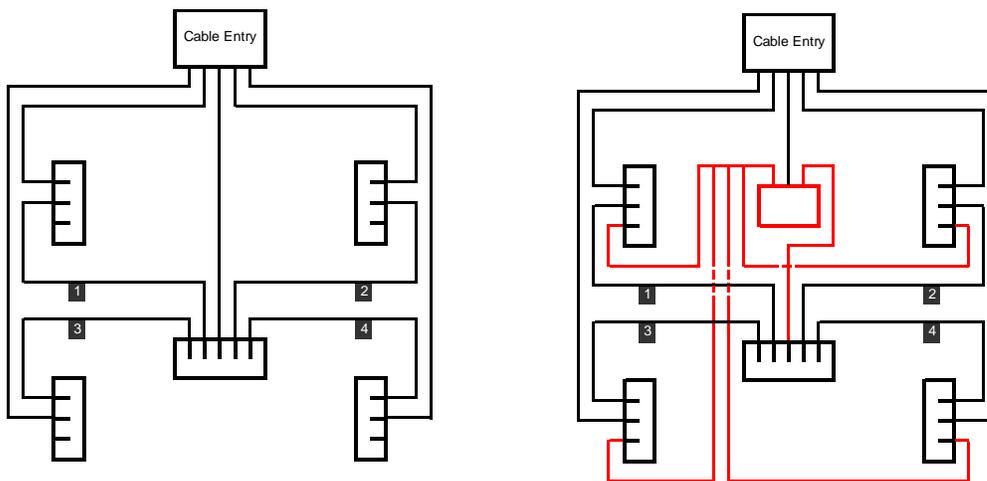
Upgrade Procedure

AS7500 Tru Count Valve Box Upgrade

- I. Description
 - a. A modification to each original Tru Count valve box is required to allow the AS7500 to effectively communicate with the Tru Count clutches. The modification is to prevent back EMF interfering with the function of the AS7500. The modification should take less than 10 minutes per valve box.
- II. Tools Required
 - a. AS7500 Tru Count upgrade kit
 - i. The kit consists of a 3 wire walnut with one wire in socket 3 and a 4 wire splice in socket 1. Socket 2 is empty.
 - ii. Walnut: This term is used for the connectors that are used to lock wires in place. There are two types of walnuts-a 3 wire and a 5 wire. To use the walnuts, the lever must be raised so it is perpendicular to its closed position. The wire is inserted into the hole and then the lever can be closed to its initial position.
 - b. Flat blade screwdriver
- III. Installation Steps
 - a. Locate Valve Box to be modified. Remove the four corner screws from the lid and remove the lid.
 - b. Locate the four x "3 wire" walnuts and the one "5 wire" walnut connecting to the switches.
 - c. Locate the "5 wire" walnut connector. Lift the center lever and remove the red wire from the connector. The lever needs to be fully lifted.
 - d. Connect the red wire that was just removed from the "5 wire" connector to the middle socket of the AS7500 Tru Count upgrade kit walnut. To connect the wire, lift the orange lever straight up, insert the wire, and close the lever.
 - e. Connect the single wire from the third hole of the AS7500 upgrade kit walnut to the middle socket of the "5 wire" connector (the slot from which the red wire was removed).
 - f. Connect each of the four wires from the adaptor harness to the spare slot in each of the "3 wire" walnuts.
 - g. Check that all wire levers are down and that all cables are secure. After the installation, distribute the connectors appropriately beside the switches and replace lid and 4 screws.
- IV. Final Wiring
 - a. In the standard valve boxes (on left below) the five wires from the cable entry split with the four wires going to each of four walnut connectors. Each switch (1-4) has one wire connected to one of 3 wire connectors and the other

connected to the same 5 wire common block. A ground wire is connected from the cable entry to the common block.

- b. To modify the valve box (in red on right below) to work with the AS7500, the wire harness needs to be added. The red ground wire coming from the cable entry to the 5 wire walnut connector is removed and added to the new 3 wire walnut connector. One wire from the new connector is connected to the 5 wire walnut. The remaining four leads are connected to the four spare slots in the 3 wire walnut connectors.
- c. After installation of the boxes, a final test of the AS7500 should be undertaken by connecting and running a self test of the appropriate number of sections.



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