

Alfa Radio Ltd.

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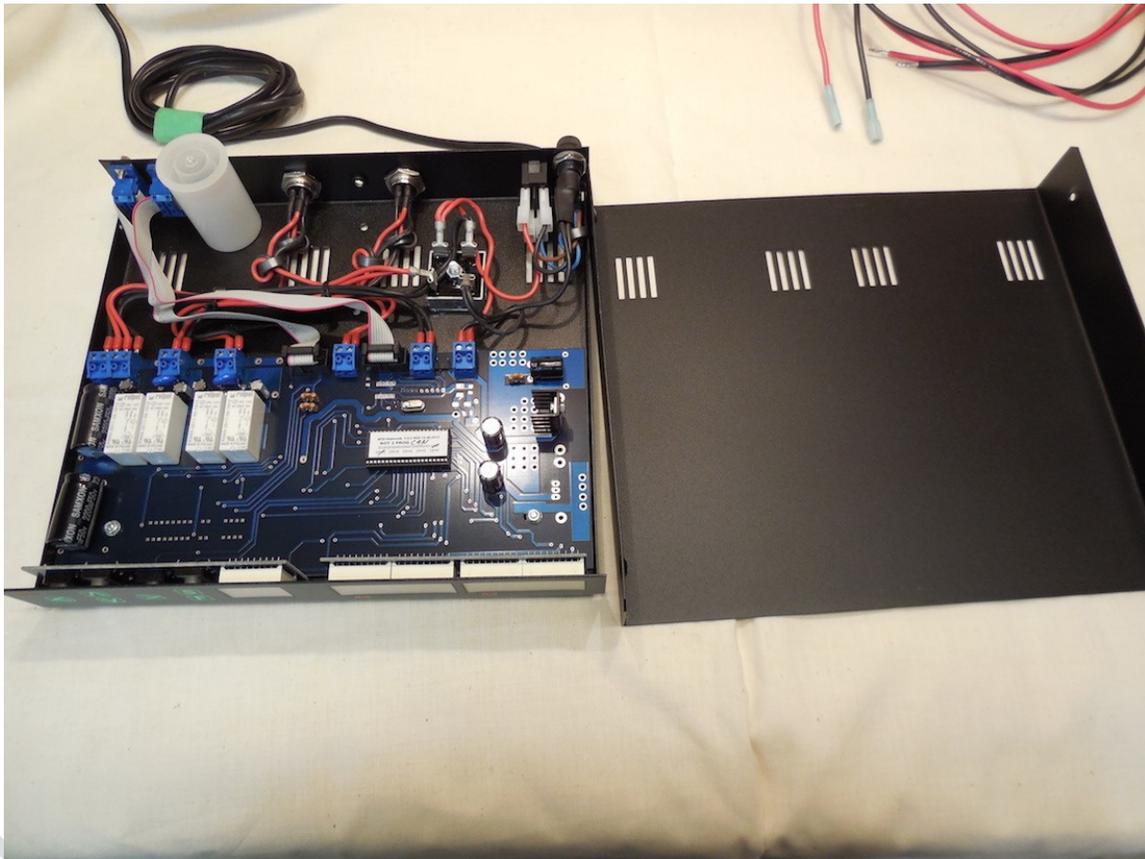


ROT2PROG Controller Modification

This modification to the Alfaspid ROT2PROG rotator controller allows the controller electronics to be powered from a DC power supply providing between 13.8 and 18 Volts DC and the rotator circuits to be powered from a separate power supply providing between 13.8 and 24 Volts DC.

STEP 1

After removing four(4) screws lift the top cover from the controller. Place the controller on the bench with the display facing forward.



STEP 2

There is a black wire going from the fuse in the back right corner of the controller to the Rectifier Bridge and then to the right hand side of the circuit board. Remove the Feston connector at the Rectifier

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Bridge and insulate the connector. Do the same with a red wire that goes from the power switch to the rectifier bridge and then on to the right hand side of the circuit board.



At this point you can apply power to the controller. The controller will operate normally except that when the direction buttons are pushed, the relays will click on and off but the rotator will not turn. If all is well remove power and continue.

STEP 3

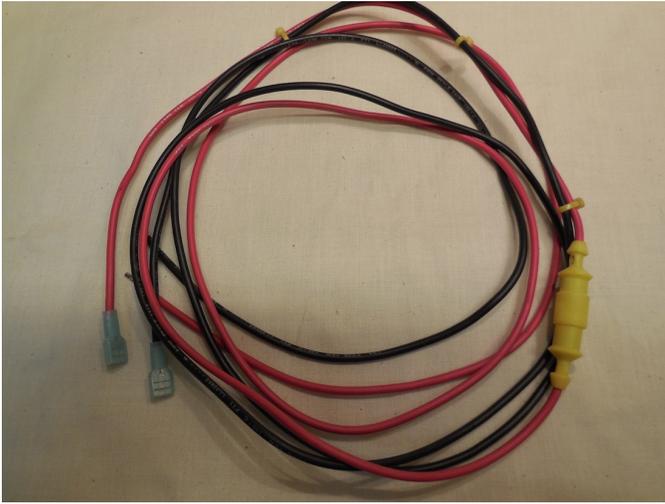
Drill a hole in the rear panel of the chassis. This hole needs to be big enough for a plastic strain relief similar to the existing one on the back right hand side of the controller, or for a rubber grommet. The hole must be placed so that it or the wire placed through it in the next step does not cause interference with any existing parts in the chassis.

STEP 4

Make up a cable with two wires of recommended 16 gauge, stranded wire. Install an inline fuse holder and 8 to 10 amp fuse in the cable.

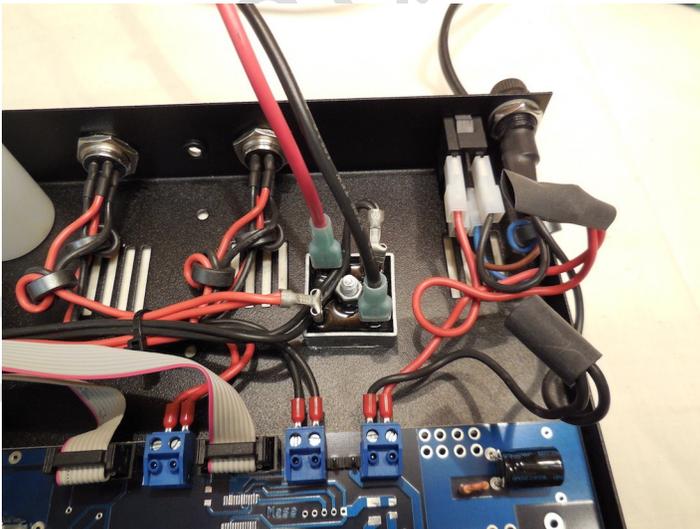
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STEP 5

Run one end of the cable through the hold in the rear of the chassis and the strain relief or grommet. Install a 0.25 inch feston on each wire and connect the wires to the terminal on the rectifier bridge that the wires in step 2 were removed from. Be careful to bend the feston connectors similarly as the connectors removed in step 2 so that they do not interfere with the chassis cover.



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At this point you can apply 13.8 VDC to the original power cable and 24VDC to the newly installed cable. The rotator should now turn in response to the direction buttons. If all is well remove power.

STEP 6

Replace the top cover on the controller. Modification complete.

Alfa Radio use only