

“As promised in an earlier issue of S/1 NEWS (Number 7), a modification will now be described (courtesy Dick Cunningham, K0HHP) concerning the installation of a MFJ model CWF-2 filter into the CX7. This unit does a great job on CW and has bandwidths of 70, 110, and 130 Hertz. I purchased one of these little units and compared it against my installed Signal/One CW filter - in my opinion the MFJ does a much better job. Even at the narrow bandwidths there is no ringing. The modification to be described places the MFJ unit inside the CX7 near the mode switch and rewires the mode switch such that CW2, CW3, and FSK positions provide bandwidths of 180, 110, 70 hz respectively. The installed 2.1 hz filter is used for AM, LSB, USB, and CW1. **WITH THIS MODIFICATION NO AUXILIARY FILTERS CAN BE USED.**” - BobSullivan, W0YVA/4

The step-by-step procedure is as follows:

Step	Procedure
1.	Remove Wire #355 from S8H-7.
2.	Remove Wire #185 from S8H-.6.
3.	Solder Wire #355 to Wire #185 and properly insulate the splice.
4.	Install a jumper from S8G-6 to S8G-7. (Wire #184 is connected to S8G-6 and Wire #353 is connected to S8G-7.
5.	Mount the MFJ filter in a convenient location near the mode switch.
6.	Connect the MFJ filter + to any point in the +15 volt line.
7.	Connect the MFJ ground to any ground location.
8.	Remove coax #35 (audio input to terminal #125 on power supply board) and connect to S8H-7. Coax #35 will not reach this switch terminal and therefore will have to be extended. Shielded wire is not required for this extension. Hookup wire will do.
9.	Connect MFJ filter input to S8H-7 (same terminal as in step 8).
10.	Connect a new wire from S8H-6 to terminal #125 on power supply board.
11.	Connect MFJ filter output #1 to S8H-11 (180 Hertz output).
12.	Connect MFJ filter output #2 to S8H-12 (110 Hertz output).
13.	Connect MFJ filter output #3 to SSH-1 (70 Hertz output).
14.	Clip jumper from S8H-12 to S8H-1.

NOTE:, The jumpers between S8H-7, 8, 9, 10 should, be left in place.

Many thanks to Dick, KOHHP, for taking the time to lay this out in detail.

The revised circuit will look like so:

