## I'm not a bot



Yaesu FT-7 / FT-7B Digital Frequency Display and Internal Keyer Comments??? Installation Suggestions Service Manuals: The Yaesu FT-7 and FT-7B were introduced in the late 70's / early 80's and still enjoy a lively following because they are rugged and dependable. Their receivers are free from the synthesizer by-products associated with some of the more modern radios and they are easy to maintain Almost of the circuit boards are modular - easily removed for service. The radio also takes up little shack 'shelf space'. This website offers two additional improvements to the many that have been published, those available in the Yahoo FT-7 Users Group, and those found by searching the internet. Specifically, this website describes how to add an outboard digital frequency display and an internal jambic keyer. Undoubtedly, other methods of implementing these two features are encouraged to improve upon what's described herein. Both the Yaesu FT-7 and the FT-7B use the same frequency mixing scheme. Specifically, the 5.5 - 5.0 Mhz VFO signal is premixed (subtracted from) the heterodyne oscillator crystal frequency (except on 80 meters where no heterodyne oscillator frequency (except on 80 meters where no heterodyne oscillator frequency (either 8998.5 khz or 9001.5 khz), producing the desired USB / LSB / CW output. For 40through 10 meters the 8998.5 khz carrier oscillator is used for LSB, while the 9001.5 khz carrier oscillator is used for USB. For CW operation on all bands, the 8998.5 khz carrier oscillator is used for LSB, while the 9001.5 khz carrier oscillator is used for USB. For CW operation on all bands, the 8998.5 khz carrier oscillator is used for LSB, while the 9001.5 khz carrier oscillator is used for USB. For CW operation on all bands, the 8998.5 khz carrier oscillator is used for LSB, while the 9001.5 khz carrier oscillator is used for USB. For CW operation on all bands, the 8998.5 khz carrier oscillator is used for USB. rear of the FT-7B. No such provision was made for the older FT-7. The display interface between the FT-7B and the YC-7B consists of 13 Volt power, ground and PREMIX input connectors, as well as CW, LSB, USB and 75 / 80 meters leads to preset the downcounter properly. This website describes several external digital frequency display possibilities and how the FT-7's buffered PREMIX signal can drive these counters with the required signals developed at the FT-7's 5 pinexternal VFO connector, or at the FT-7's 5 pinexternal VFO connector, from China for \$12. To use it, the FT-7 will require an additional buffer circuit. The FT-7B will workas is. Connect it after you have verified that the FT-7 / FT7B's carrier oscillators are precisely on frequency. For CW operation on all bands (except for 80 meters) and for 40 meter LSB, program the counter to subtract the 8998.5 khz. For 20, 15 and 10 meter USB operation, program the counter to subtract 9001.5 khz. The 'stock', unmodified version of this counter will not work on either 75 or 80 meters. Here's a Youtube video showing how to program the unmodified PLJ -6LED-A 6 DIGIT Display / Counter. b) eBay Chinese Constructed 6 Digit Display - PLJ-6LED-A -MODIFIED Using a rewritten version of the PIC16F628A software designed by Wolfgang Buescher, I modified the PLJ-6LED-A device to both work on 75 and 80 meters as well as the interface between the PIC processor and the TM1637 chip driving the LED's had to be developed. Once this was done, an I2C interface had to be devised and then several timing changes made as the Chinese counter uses a 13 Mhz time base whereas Wolf's circuit uses a 20 Mhz crystal. A simple sideband select switch on the top of the enclosure is required, and that's it. The display is very accurate and responsive. Contact me if you are interested in purchasing a modified unit. Note: A suitable enclosure needs to be built. A Radio Shack small box (cut out with an exacto knife) will do nicely. c) DL4YHF Display Driver Requirements Wolfgang Buescher - DL4YHF Display Driver Buescher - DL4YHF homebrewed, or purchased on eBay as a kit from Ralph Van Dyke (the newer version - shown below). I've built 2 of Ralph's kits, one for my Drake B Line and another for this project. They both come with a nice plastic enclosure and blue LED's - really sweet! Unlike the unmodified Chinese 6 Digit Display, this device can be readily manipulated to (optionally) detect and then subtract the carrier oscillator frequency 'on the fly' with a few key presses, or by flicking a simple switch. The digital display counter interface is already built into the FT-7B (Q1 - an emitter follower), probably somewhere on the backplane board. The base of this transistor connects - through a small coupling capacitor and very short lead - right to TP-1902 (pin 14), the output of the PREMIX oscillator. To replicate this circuit in the FT-7, a comparable driver needs to be fabricated. However, it would be extremely difficult to mount this circuit in the FT-7, a comparable driver needs to be fabricated. the modified buffer circuit, virtually identical to the emitter follower circuit used in the FT-7B (see schematic). Direct Conversion - Thesoftware can be pre- programmed to include the LSB and USB offsets to be subtracted, specifically 8998.5 khz and 9001.5 khz. When changing bands, the user must remember that 8998.5 khzwill be used for all CW work and for 40, 20, 15 and 10 meter LSB and for 75 meter USB. Conversely, 9001.5 khz will be used for 75 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB and for 40, 20, 15 and 10 meter LSB Conversion - Thesoftware can be modified so that a single switch on the top of the display enclosure will switch the mode of operation (i.e. CW/LSB or USB). In so doing, the counter will work only with the FT-7 / FT-7B. Use switch Position B for 80 meter LSB, and for 40 thru 10 meter USB. Push Button Conversion - A relay interfaceto the FT-7 / FT-7B frees the user from remembering these 'rules'. The operated relay samples the carrier oscillator frequency. A top mounted switch will operate the relay and apush button will be required to program the counter. Operate the SAMPLE switch on thedisplay and the display push button, toggle down to SUB tract Hold the display push button down untilSUBblinks, Release the PGM button, toggle down to SUB tract Hold the display push button down untilSUBblinks, Release the PGM button, toggle down to SUB tract Hold the display push button down untilSUBblinks, Release the PGM button, toggle down to SUB tract Hold the display push button down untilSUBblinks, Release the PGM b the actual frequency will be displayed. d) Installation Suggestions For the internal keyer and / or the Push ButtonConversion, the rear of the FT-7 / FT-7B is removed to install a miniature 3 conductor keyer jack and keyer command button. The Push Button display conversion also requires a minor FT-7 (External VFO jack) or FT-7B (display jack) wiring change. For the FT-7, here are the connections on the 5 pin FT-7 External VFO jack where the external display will connect: 13 VDC - pin 3 EXT 8V - VFO - pin 1 This jumper between pins 1 and 3 is cut if an external VFO is used. Remove the jumper and the two leads, connect these two leads together, insulate the connection and stuff the wires back into the radio. The internal VFO will not work if these two leads are not connected together. Leave the other leads intact. Run a wire from one of the 2 spare terminals back to the miniature relay connection on the source follower counter interface buffer board. For the FT-7B, the digital display connections can be made directly to the existing external display socket. No wiring changes will be required and no interface board will be needed - UNLESS you are installing the PUSH BUTTON conversion. The FT-7B has a buffered circuit already connected to the PREMIX output. Here are the connections on the 7 pin jack to which the external display will connect: 13 VDC - pin 7 Ground - pin 6 Premix Output - pin 1 pin 3 - CW - not sure, print is blurry pin 5 - LSB - not sure, print is blurry pin 5 - LSB - not sure, print is blurry pin 2 - USB - not sure, print is blurry pin 2 - USB - not sure, print is blurry pin 5 - LSB - not sure, print is blurry pin 5 - LSB - not sure, print is blurry pin 5 - LSB - not sure, print is blurry pin 5 - LSB - not sure, print is blurry pin 5 - LSB - not sure, print is blurry pin 5 - LSB - not sure, print is blurry pin 6 - DEB - not sure, print is blurry pin 6 - DEB - not sure, print is blurry pin 6 - DEB - not sure, print is blurry pin 6 - DEB - not sure, print is blurry pin 6 - DEB - not sure, print is blurry pin 7 - DEB - not sure, print is blurry pin 7 - DEB - not sure, print is blurry pin 8 - DEB - not sure, print is blurry pin 8 - DEB - not sure, print is blurry pin 9 - DEB - not sure, print is blurry pin 9 - DEB - not sure, print is blurry pin 9 - DEB - not sure, print is blurry pin 9 - DEB - not sure, print is blurry pin 9 - DEB - not sure, print is blurry pin 9 - DEB - not sure, print is blurry pin 9 - DEB - not sure, print is blurry pin 9 - DEB - not sure, print is blurry pin 9 - DEB - not sure, print is blurry pin 9 - DEB - not sure, print is blurry pin 9 - DEB - not sure, print is blurry pin 9 - DEB - not sure, print is blurry pin 9 - DEB - not sure, print is blurry pin 9 - DEB - not sure, print is blurry pin 9 - DEB - not sure, print is blurry pin 9 - DEB - not sure, print is blurry pin 9 - DEB - not sure, print is blurry pin 9 - DEB - not sure, print is blurry pin 9 - DEB - not sure, print is blurry pin 9 - DEB - not sure, print is blurry pin 9 - DEB - not sure, print is blurry pin 9 - DEB - not sure, print is blurry pin 9 - DEB - not sure, print is blurry pin 9 - DEB - not sure, print is blurry pin 9 - DEB - not sure, print is blurry pin 9 - DEB - not sure, print is blurry pin 9 - DEB - not sure, print is blurry pin 9 - DEB - not sure, print is blurry pin 9 - DEB - not sure, print is blurry pin mount both a SPST (normally open) push button switch and a 3 conductor miniature jack on the rear to avoid drilling holes in the front. However, additional transistor switching circuitry couldbe installed to 'repurpose' of one or more of the front panel controls (like the MARKer or Noise Blanker). I decided not to do this asI (very infrequently) use the keyer speed. Remove the cover over the PA filter board. Use cable ties to dress the wiring neatly. In replacing the rear panel, ensure that nothing is pinched. For the FT-7 6 DIGIT or DIRECT conversions, build the emitter follower counter interface board that will buffer the PREMIX signalsent to the counter. Reuse the output coaxial cable running to the rear mounted external VFO connection, reterminating it as shown here. Using RG-174 (or similar) coax, connect the input to the buffer interface to the PREMIX output - TP-1902, topside. Mount the board with double sided tape under the FT-7B 6 DIGIT or DIRECT conversions, just connect the display to the rear display connector, following the output pin conventions. For the FT-7B 6 DIGIT or DIRECT conversions, just connect the display to the rear display to the re the output between the PREMIX (TP-1902) and the carrier oscillator (pin 7 or 8 on the IF board), or implement the interface circuit described herein - your choice. d) Display Calibration For the 6 DIGIT, DIRECT and SWITCHED SIDEBAND conversions, it's important that the LSB and USB carrier oscillators are set precisely on frequency as the counter's firmware will subtract this frequency from the PREMIX. You may use either an accurate digital frequency counter or a radio with a good digital display to accomplish this. Note: If you use a frequency counter or a radio with a good digital display to accomplish this. Note: If you use a frequency counter or a radio with a good digital display to accomplish this. Note: If you use a frequency counter, measure the carrier oscillators for the PUSH BUTTON conversion precisely on frequency is not terribly important as the counter will measure the actual carrier frequency which will be subtracted from the PREMIX frequency. For the DL4YHF conversion, the time base of the PIC 16F628A must also be set. You may calibrate the time base by first carefully tuning the FT-7 / FT-7B to a SSB station of known frequency - say, one that is being received on another station receiver - and then adjusting the time base until the FT-7's display matches that of the other, verified on another, known accurate station receiver. Alternatively, you can zero beat the PIC's 20 Mhz time base with a good receiver tuned to 20 Mhz, perhaps zero beating it against WWV, if you can receive it. Note: The Chinese 6 Digit LED counter has already been set at the factorY and does not require any readjustment. c) Modified Software for the DL4YHF counter is finished and will be available from Ralph Van Dyke shortly. d) Internal lambic Keyer Idecided to purchase the Jackson Harbor Press PK4-SSR unit that I've used in other projects. The Jackson Harbor Press keyer board is mounted on the P/C boardformerly used for the FIXED frequency. This board was stripped of all its components, the Jackson Harbor Press keyer mounted with 1 stand-off screw, and connected with 30 gauge wiring to the proper pins on the stripped FIXED board front / rear. The under chassis wiring connects to the proper points in the radio. This way, the keyer may easily be removed from the radio, if necessary. Notes: Before making any under chassis side covers as the space in there is tight, or even remove the switch wafer itself (be sure you remove the right one). Power (8 VDC) for the keyer board may be found on pin 1 of the topside chassis mounted resistor board, and this power source can also be used for the MPF-102 source follower interface board, if used These are the pins that I used - other connections are - of course possible. Left Paddle - Pin 13 Right Paddle - Pin 13 Right Paddle - Pin 2 - sever the trace on the underside of the board to the next connector. Command - Pin 12 Power - Pin 5 Ground - Pin 3 - sever the trace on the underside of the board to the next connector. Connect the Audio Out to pin 15 of the AF board through a .01 mf capacitor, and program the keyer to turn the sidetone and sidetone float off. Important Note: When using the internal keyer, insert a dummy (open) miniature plug in the existing key jack to 'satisfy' the FT-7 - FT-7/B. Technical documentation of some transcievers from YAESU: FT-817 service manual is here (20MB) FT-847 service manual is here (5MB) and here (15MB) FT-847 user manual, schematics are here (9MB) FT-847 block diagram in higher quality is here (12MB) FT-1000MP Mark V. service manual is zde (120MB) Discussion about technical matters such transcievers can be lead here Technical doumentation of some other transcievers: Snezka TRX210 - diagrams and documentations are zde (3,8MB) This is the manuals page for Yaesu. In this page you find schematic, users and instructions manuals, service manuals, technical supplement, leaf leads and other good stuff. If you have some stuff that not is listed here you can download. And when you click on the file or icon it will count as a download. If you can't find a manual please do not contact us, all the manuals we have are online. 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