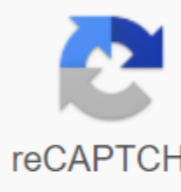


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Programming interface schemes for Yaesu VX5 : programming interface, Yaesu VX5 4 pin plug Programming software for Yaesu VX-5 R (VX 5 R VX5R) : Yaesu VX-5 Commander download Yaesu VX-5 EVE for MARS/CAP/Extended TX modification download Note: A problem was discovered by Lawrence recently. This problem deals with home memory channels. If you don't load the contents of your VX-5R to EVE first, then EVE defaults the Home channels to 0.00Mhz. When you try to access any home channel with 0.00Mhz on it, the radio will be locked. Most people have loaded the contents of their VX-5R to EVE first, then editing their memory channels, so that no problems occur. The problem arises when you open EVE and start editing the memory channels with nothing loaded for eve. I recommend that everyone first upload the contents of the memory to EVE before editing anything. This goes for virgin and well as vx-5r programmed. Once you have saved your radio file in EVE, then everything should be fine. It's normal for newer VX-5Rs when read by EVE to appear as Japan instead of US for your country code - that's normal. This has to do with the newer CPU used on the newer VX-5R. There is no need to select USA for your country code, simply select the 4th box for Mars/Cap, or select the 5th box for Freeband if you plan to modify your radio. Also, if you hold your mouse over any of the 5 boxes for a few seconds, the text will appear informing you what each virtual jumper does. PDF user manual for Yaesu VX-5 R (VX 5 R VX5R) : Yaesu VX-5 PDF Service Manual Service Manual PDF Service Manual for Yaesu VX-5 R (VX 5 R VX5R), diagrams, pcb diagrams : Yaesu VX-5 Service Manual (Technical Supplement) Mods for Yaesu V XX-5 Mods for Yaesu VX-5 5 R (VX 5 R VX5R) : Yaesu VX-5 R (VX 5 R VX5R) IDIOT - Yaesu VX-5 R mod (VX 5 R VX5R) Modification Yaesu VX-5 R (VX 5 R VX5R) MARS&MARS &MARS &MARS freeband mod for version 1, 2 &MARS: 3 Yaesu VX-5 R (VX 5 R VX5R) expanded frequency mod mod Yaesu VX-5 R (VX 5 R VX5R) Loose antenna cure Yaesu VX-5 R (VX 5 R VX5R) Free band Yae VX-5 R (VX 5 R VX5R) modification for German Yaesu VX-5 R (VX 5 R VX5R) Use Nokia 7110 Belt Clip Yaesu VX-5 R (VX 5 R VX5R) TX Yaesu frequency expansion VX-5 R (VX 5 R VX5R) Expanded Range Yaesu VX-5 R (VX 5 R VX5R) PC MARS/CAP or FREEBAND mods Yaesu VX-5 R (VX 5 R VX5R) Expanded frequency Yaesu VX-5 R (VX 5 R VX5R) Some modification does not work!! Technical specifications yaesu VX-5 R (VX 5 R VX5R): Simesu VX 5-R (VX 5 R VX5R) Technical specifications AE7Q This summary assumes that you have read the VX-5R Operating Manual and understood all modes, and only need a summary of keyboard operation. SET keyboard map:Go to #01 - #45:Switching GEAR FRQ type:Switch 2nd freq. display CD(#30):Tone set TAG:Switch mrt tag display DT:Enable DTMF DTMF VLT:Toggle SKP voltage screen:Set memory skip SC:Memory mode scan BAND:Step to next band 1 2 3 MR:EMG memory recall mode:Emergency mode MG: Use FRQ memory group:Switch freq. AP(#16):D turn off ico:switch icon display RP(#07):Repeat direction change ONT:Switch time time display SQ(#01):Squelch WX inch level:Switch weather band HM/RV:Select Home or Reverse 4 5 6 0 LOCK:Lock input ST(#11):VFO step TMP:Switch temperature display BRO:Switch barometric display DW: Dual Watch ALT:Switch the display of the altimeter BP (#20):Key Beep SC:VFO mode scan TX PO: 7 8 9 VFO:VFO mode; Switch General Notes A/B: By pressing and holding any digit key, sets or clears a specific view. Pressing F] W+ Any digit key (except 3, 4, and 8) is a shortcut to a set menu item. The display displaying the frequency press 1]T]N] FRQ (1 sec) to switch displaying VFO A and B. Press 4] MG, mg. DSP (1 sec) to switch displaying large digits. Displaying memory label Press 2] CD] TAG (1 sec) to switch by displaying the memory tag in MR mode. Displaying icons press 5] AP] ICO (1 sec) to switch display icons. Viewing Monitor on time Press 6] RP] ONT (1 sec) to switch by displaying the elapsed receive and transmission time. To reset the timer while the operating time is being displayed, press F] W (1 second) + 6] RP] Ont. Displaying the battery voltage press 6] RP] ONT (1 second) to switch by displaying the current battery voltage. Displaying temperature pressure 7] ST. TMP (1 sec) to switch displaying temperature. Barometer Press 8] BRO (1 sec) to switch by displaying barometric pressure. Altimeter Press 9] BP] ALT (1 sec) to switch displaying altitude. Operating range of reception and scanning band frequency band (MHz) Standard mode AM BC Band 0.5 - 1.8 AM SW Band 1.8 - 16 AM FM BC Band 59 - 108 W-FM TV Band 174 - 222 (VHF) W-FM 470 - 729 (UHF) 6m Ham 48 - 59 N-FM 2m Ham 137 - 174 N-FM 270cm Ham 420 - 470 N-FM AIR Band 108 - 137 AM Action Band 1 222 - 255 N-FM 255 - 335 AM 335 - 420 N-FM Action Band 2 800 - 999 N-FM Programmable Memory Scan (PMS): Store the lower subband limit in #Lx of the Memory Channel (x is 1 - 9). Store the upper subband limit in #Ux The Memory Channel (x is 1 - 9). Press MR] SKP] SC, then rotate the DIAL to select Memory Channel #Lx. Press MR] SKP] SC, the MR label will be replaced by TPM in the upper left corner of the display. Weather Broadcasts Press 0] SQL] WX (1 sec) to switch by receiving weather broadcast channels. You can attach a numeric alpha tag (label) to a weather broadcast channel. Channel 1 2 3 4 5 6 7 8 9 10 MHz 162.550162.400162.425162.4502.4502.450 VFO VFO Mode; DW] SC to select VFO mode and switch VFO A&M;B frequencies. Memory recall mode Press MR] SKP] SC to select memory recall mode and switch memory offset adjustment mode. Memory groups to assign a memory channel to a memory Select the memory channel to add. Press F] W (1 sec) + the numbered key (1 - 5) of the Desired Memory Group for this channel. To use a memory group. Press F] W + 4] MG, mg. DSP to select Memory Group mode. Turn the DIAL button to select the desired Memory Group (MG1 - MG5). Press MR] SKP] SC to use the selected Memory Group. To exit the Memory Group. press VFO] DW] SC; then MR] SKP] SC. MR Skip Skip a channel during memory scanning Select the memory channel to ignore. Press F] W + MR] SKP] SC. A small triangle icon will appear to the left of the frequency. Masking and unmasking a channel If necessary, press MR] SKP] SC. Press F] W (1 sec) + rotate the DIAL to select the memory channel to be Masked or Unmasked. Press MR] SKP] SC. Priority Channel Scanning (Dual Watch) Set priority channel (Dual Watch); Remember the memory channel to be the Priority Channel. Press F] W (1 sec) + BAND] SET]AR. A P icon will appear to the right of the memory channel number. To activate Dual Watch using Priority Channel: To activate Dual Watch using VFO B: Select VFO A&M;B frequencies. Press F] W + VFO] DW] SC (1 second). VFO Scanning Press VFO] DW] SC (1 sec) to start scanning the VFO. Rotate the DIAL to change the direction of the sweep. MR Scanning Normal Memory Scan Press MR] SKP] SC (1 sec) to start scanning the memory. Rotate the DIAL to change the direction of the sweep. Preferred memory scan Remember the memory channel to be added to the Preferred Scan List. Press F] W + MR] SKP] SC. A small triangle icon will appear to the left of the frequency. Press F] W + MR] SKP] SC again. A note icon will appear to the left of the frequency. To start a preferred memory scan, start a normal scan on any channel in the Preferred Scan List, transmitting the power level change of the transmitter press TX PO] LOCK] to cycle energy levels. This setting is bandwidth and memory-specific. High Band L3 L2 L1 50/145 MHz 5.0W 2.5W 1.0W 0.3W 430 MHz 4.5W Emergency Channel Operation Press HM/RV] EMG (1 sec) to select the UHF Home channel and sound an alarm tone. Repeating operations storing split frequencies store the receiving frequency and data normally. Select the transmission frequency. Press F] W (1 sec). Rotate the DIAL to the desired memory channel. Press and hold PTT and press F] W. Tone search Select the TONE SQL or DCS Decoder operation. Press F] W + 2] CD] Tag. Press VFO] DW] SC (1 sec) to start scanning for input CTCSS or DCS tone/code. If the correct tone or code is detected, the scan will stop at that tone/code, and the audio may approved; press BAND] SET]AR to hang on to this tone/code. If the correct tone or code is not detected, the scan continues indefinitely; press PTT to stop scanning. Press MONI during tone scanning to unite the receiver. DTMF Operation Press F] W + 3] D]. VLT to activate the DTMF Autodialer function. Press PTT to start transmission. Press the desired desired memory key (0 to 9). Power modes Reset the Microprocessor Turn off the radio. Press and hold MR] SKP] SC and VFO] DW] SC and 4] MG, mg. DSP while you turn on the radio. Press F] W to boot the radio. Start setup mode Turn off the radio. Press and hold MR] SKP] SC and VFO] DW] SC while connecting the radio. Press F] W to initialize the Set Mode. Turn off the radio mode. Press and hold MR] SKP] SC while connecting the radio. Mode settings VX-5R Set mode (Menu) is easy to activate and set. Use the following procedure: Press F] W, then BAND] SET]AR to activate Set mode. Rotate the DIAL to select the number of the Menu item to be adjusted. Press BAND] SET]AR, rotate the DIAL to adjust or select the parameter to change in the Menu item selected in the step above. After completing your selection and adjustment, press PTT to exit Set mode and exit to normal operation. Exceptions are #30 and #31. Set item 11 [SQUELCH] Shortcut: F] W +] [SQ] WX function: Set the Squelch threshold levels to AM and FM-Narrow modes. Available values: 0 - 15 Standard: 01 The Squelch system can be adjusted independently for FM and Wide-FM (FM Broadcast) modes. This setting is specific. Set function item 2 [WFM SQL]: Set the Squelch threshold level to FM-Wide mode. Available values: 0 - 15 Default: 02 Set Item 3 [NAME SET] Function: Store alpha-numeric tags for memory channels. Name store: Remember the memory channel to be named. Select this item and press BAND] SET]AR. Rotate the DIAL to select the first letter, number or symbol you want and press BAND] SET]AR to save the first letter/number/symbol. Repeat the previous step as needed to complete. Set item 4 [ICON] Function: ICON selection. Recall Menu Item 3, then press BAND] SET]AR. Rotate dial to select the band or mode you want to use an icon in, and press BAND] SET]AR. Rotate the DIAL to select the desired icon to be displayed in place of the regular indicator. Set item 5 [VFO] Function: Turn the VFO band wrapping on/off for the current band. Available values: ALL / BAND Standard: BAND Set Item 6 [ARS] Function: Turn the automatic repeater shift function on/off. Available Values: ON / OFF Standard: NO Set Item 7 [RPT SHIFT] Shortcut: F] W + 6] RP] ONT function: Set the direction of the repeater exchange. Available values: -RPT / +RPT / SIMP Standard: Depends on the transceiver version. Set the Function Item 8 [SHIFT]: Set the magnitude of the Repeater Exchange. Available Values: 0.00 - 99.95 MHz Standart: Depends on the transceiver version as well as the configuration of the #06 Menu (ARS). This setting is bandwidth-specific. Set item 9 [VFO SPLIT] Function: Enable/disable VFO Split operation Available values: ON / OFF Default: OFF Item 10 [VFO LINK] Function: Enable/disable the VFO Link (slave) feature. Available values: ON / OFF Default: OFF The VFO Link feature requires that: Set item 11 [VFO Shortcut: F] W + 7] ST. TMP function: Adjustment of the synthesizer steps. Available Values: 5 / 10 / 12.5 / 15 / 20 / 25 / 50 / 100 KHz Standard: Depends on the transceiver version. Set item 12 function [RESUME]: Select Rest mode. Available values: 5 SEC / BUSY / HOLD Standard: 5 SEC Set Item 13 [SCAN LAMP] Function: Enable/disable the scan lamp while paused. Available values: ON / OFF Standard: NO Set Item 14 [RX SAVE] Function: Select the battery saving interval of the receiving mode (sleep). Available values: OFF / 200mS(1:1) / 300mS(1:1.5) / 500mS (1:2.5) / 1s(1:5) / 2s(1:10) Standard: 200mS(1:1) When you are operating in the Package, change the Receive Battery Protector OFF, as the sleep cycle may collide with the start of an input packet transmission, causing your TNC to not receive the full burst of data. Set item 15 [TX SAVE]: Enable/disable the transmission battery protector. Available values: ON/OFF Default: OFF Selecting ON will automatically reduce the power output level when the last signal received was too strong. Set item 16 [APO] Shortcut: F] W + 5] AP] ICO function: Set the automatic shutdown time. Available values: OFF / 30 min / 1 hour / 3 hours / 5 hours / 8 hours Standard: OFF Set Item 17 [LED BUSY] Function: Enable/disable the BUSY LED while the Squelch is open. Available values: ON / OFF Standard: NO Set Item 18 [ARTS BEEP] Function: Select the BEEP option during the ARTS operation. Available values: IN RANGE / ALWAYS / OFF Default: IN RANGE Set item 19 [ARTS VLT] Function: Select the voting interval during the ARTS operation. Available values: 15 SEC / 25 SEC Standard: 25 SEC Set Item 20 [KEY BEEP] Shortcut: F] W + 9] BP] ALT function: Enable/disable keyboard beep. Available values: ON / OFF Default: NO Set Item 21 [EDGE BEEP] Function: Enable/disable band edge beep during scan. Available values: ON/OFF Default: OFF When this FEATURE ON, a beep will sound when the scanner reaches the edge of the band (during VFO scanning) or when it reaches memory channel 1 (during memory channel scanning). Set function Item 22 [BELL]: Select ctcss bell touch repeats. Available values: OFF / 1 / 3 / 5 / 8 / REPEAT Pattern: OFF Set Item 23 [MON/T-CAL] Function: Select the MONI key (just below the PTT switch). Available values: MON / T-CAL Standard: Depends on the transceiver version. MON: Pressing the MONI key causes the Squelch noise/tone to be replaced, allowing you to hear weak (or unencoded) signals. T-CAL: Pressing the MONI key activates a 1750 Hz burst tone, used for repeater access in many countries. Set item 24 [HOME/REV] Function: Select the FUNCTION of HM/RV] EMG key. Values HOME /REV Standard: Depends on the transceiver version. HOME: Pressing this key instantly resembles a favorite Home channel. REV: Pressing this key reverses the transmission and receives frequencies during repeater operation. Repeater. Item function 25 [LAMP MODE]: Select led/keyboard lamp mode. Available values: KEY / TOGGLE / 5 SEC Standard: KEY KEY: Press any key to illuminate the LCD/Keyboard for 5 seconds. TOGGLE: Press the lamp to switch the LCD/Keyboard lamp on/off. 5 SEC: Press the lamp to illuminate the LCD/Keyboard for 5 seconds. Press LAMP (1 sec) to illuminate the LCD/Keyboard (no time limit). Set function item 26 [TOT]: Set the TOT (transmitter on the / time). Available values: OFF / 1 min / 2.5 min / 5 min / 10 min Standard: 2.5 min The output timer turns off the transmitter after continuous transmission of the programmed time. Set function item 27 [BCLO]: Turn the busy channel lock on/off. Available values: ON/OFF Standard: OFF The BCLO feature prevents the radio transmitter from activating if a signal strong enough to break the Noise Squelch is present. Set item 28 [CLOCK SFT] Function: CPU clock frequency change. Available values: ON/OFF Default: OFF This function is only used to move a spurious birdie response if it falls at a desired frequency. Item Set 29 [SQL TYPE] Shortcut: F] W + 1]T]N] FRQ function: Select the Tone Encoder and/or Decoder mode. Available values: OFF / TONE / TONE SQL / DCS Standard: OFF TONE: CTCSS ENCODER TONE SQL: CTCSS Encoder/DECODER DCS: Digital encoder encoder/set of decoder Item 30 [SET OF TONE] Shortcut: F] W + 2] CD] TAG (if [SQL TYPE] for CTCSS) Function: CTCSS tone frequency setting Available values: 39 standard standard CTCSS tones: 100 Hz In this mode, press 2] CD] TAG (not PTT) to save the new configuration and exit to normal operation. 67.0 69.3 71.9 74.4 77.0 79.7 82.5 85.4 88.5 91.5 94.8 97.4 100.0 103.5 107.2 110.9 114.8 118.8 123.0 127.3 131.8 136.5 1 41.3 146.2 151.4 156.7 162.2 167.9 173.8 179.9 186.2 192.8 203.5 210.7 218.1 225.7 233.6 241.8 250.3 Sep Item 31 [DCS] SET Shortcut: F] W + 2] CD] TAG (if [SQL TYPE] is DCS) Function: DCS code configuration. Available values: 104 standard DCS codes. Default: 023 In this mode, press 2] CD] TAG (not PTT) to save the new configuration and exit to normal operation. 023 025 026 031 032 036 043 043 051 053 054 065 071 072 073 074 114 115 116 112 125 131 132 134 143 145 152 155 1 162 165 172 174 205 212 223 225 226 243 244 245 246 251 252 255 261 263 265 266 271 274 306 311 315 325 331 3 343 343 351 356 364 365 371 411 412 413 423 431 432 445 446 452 454 455 462 464 465 466 503 506 523 526 53 2 546 565 606 612 624 627 631 632 654 662 664 703 712 723 732 732 734 743 754 Set Item 32 [DTMF SET] Function: Programming the DTMF Autodialer. DTMF Autodialer Programming: After selecting menu item 32, press BAND] SET]AR. Rotate dial to select the number of autodial memory you want (9 memories are available). Press BAND] SET]AR, then key in the phone number you want to store (maximum: 16 digits). If you make a mistake, press MONI twice to clear the current digit and reinsert reinsert correct number. Set item 33 [CW ID] Function: Program and activate the CW Identifier (used during the ARTS operation). CW IDer Programming: After selecting menu item 33, press BAND] SET]AR. Turn dial one click to change the display from OFF to ON (CW IDer ON). Press BAND] SET]AR, then rotate the DIAL to select the first letter/number of your call signal and press BAND] SET]AR to save the first letter/number. Repeat the previous step as needed to complete your call. Set function item 34 [SPEC-ANAL]: Select the scan mode of the spectrum analyzer. Available values: SINGLE / CONTINUE Standard: SINGLE SINGLE: The transceiver sweeps the current band once. CONTINUE: The transceiver scans the current band repeatedly until the Spectrum Analyzer is turned off. To activate the spectrum analyzer: Set the radio to VFO mode in the desired band. Press F] W + LAMP. To end the scan, press PTT + F] W + LAMP. Set Function Item 35 [SMRT SRCH]: Select smart search scan mode. Available values: SINGLE / CONTINUE Default: SINGLE: The transceiver sweeps the current band once in each direction starting at the current frequency. All channels where the activity is present (up to 15 in each direction) are loaded into smart search memories. Whether all 31 memories are filled or not, the search stops after a scan in each direction. CONTINUE: The transceiver scans in each direction as with SINGLE mode, but if all 31 channels are not filled after the first scan, the radio continues to scan until all are full. Search smart memory storage: Select the VFO mode in the desired band. Press F] W (1 sec) + LAMP. Press VFO] DW] SC to start smart search scan. To remember Smart Search memories, rotate dial to choose between Smart Search memories. To finish the scan, press F] W + LAMP. Set item 36 [RX MODE] Function: Select the operation mode. Available values: AUTO / N-FM / AM / W-FM Standard: AUTO (Mode automatically changes according to operating frequency) BAND FREQUENCY BAND (MHz) Standard MODE AM BC Band 0.5 - 1.8 AM SW Band 1.8 - 1 6 AM 6m Ham 48 - 59 N-FM FM BC Band 59 - 108 W-FM AIR Band 108 - 137 AM 2m Ham 137 - 174 N-FM TV Band (VH F) 1 74 - 222 W-FM Action Band 1 222 - 255 N-FM 255 - 335 AM 335 - 420 N-FM 70cm Ham 420 - 470 N-FM TV Band (UHF) 470 - 729 W-FM Action Band 2 800 - 999 N-FM Set Item Item 37 [LOCK MODE] Function: Select the combination of lock lock control lock. Available values: KEY / DIAL / PTT / KEY+DIAL / KEY+PTT / ALL Default: KEY To turn the lock feature on/off, press F] W+ TX PO] LOCK]. The L icon will appear on the LCD. Define function item 38 [half DEV]: the level of deviation by 50%. Available values: ON / OFF Default: OFF (±5 kHz) Set item 39 [LANGUAGE] Function: Select the language for set mode selections (Menu). Available Values: ENGLISH / JAPANESE JAPANESE Portuguese Set item 40 [ON TIMER] Function: Set the timer time ON. Available values: OFF - 24:00 Default: OFF The ON Timer turns on the radio at the scheduled time. Note that this is not the time of day when the radio will turn on; is the number of hours and minutes until the radio turn on. Set item 41 [CONTRAST] Function: Setting the contrast level of the display. Available values: 1 - 10 Default: 5 Set Item 42 [MTR SYMB] Function: Select the S/P/O meter symbol. Available values: », (block), *, =, Δ, -, CHR Standard: » Set item 43 [BARO OFST] Function: Correcting atmospheric pressure. Available values: -500 - +500 hp (mb) Default: 0 hpa (mb) Set item item 44 [ALTI OFST] Function: Correcting the altimeter setting. Available values: -500 - +500 m Default: 0 m Set Item 45 [DISP MODE] Function: Select the display while the transceiver power is off Available values: NO / TEMP / BARO / ALTI / TEMP+BARO / TEMP+ALTI / ALL Default: NONE If you have any questions, comments or suggestions, use the Message Card AE7Q. I spent considerable time documenting the vanity application process. I've created a message board, where I and others have publicly answered very common questions, so we don't have to answer them repeatedly, especially in private communications. I'm not your private consultant. Private messages (regardless of whether you feel a special reason for your application) about these and associated topics will be rejected, ignored, and/or made public. Copyright © 2004-2014-03-31 @ 23:54 UTC] by Dean K. Gibson (176.9.137.118/1.214 on 2020-10-28 @ 08:28:56 UTC + 0). Privacy policy. Policy.

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