

Monday, May 26, 2008

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How to Program a TK-805D radio:

REVISED TK-705D TK-805D PROGRAMMING

The Kenwood TK705D/805D contain a built in front panel programmer. Beginning with SN 41200000 several new programming features were included in these models. These new features include a programmable Monitor Switch function, OFF-HOOK Scanning. OFF-HOOK decode, Transmit Revert Channel (for off-hook scanning), and an additional Scan Resume Delay (for the transmit revert channel). This Service Bulletin is revised to include the programming procedure for these new features in the self-programming mode

Entering the self programming mode is accomplished by turning on the power switch while pressing a combination of buttons which act as an interlock. Jumper CN-8 located on the main board behind the display is in the SET position when the radio is shipped from the factory. This enables self programming. If CN-8 is moved to the USE position, which is recommended prior to delivering the radio to the customer, the self

Users

Membership:
 Latest:
tim0477
 New Today: **0**
 New
 Yesterday: **0**
 Overall: **3**

People Online:
 Visitors: **0**
 Members: **0**
 Total: **0**

Online Now:

programming mode cannot be entered. (The radio may be operated with the jumper left in the set mode, but after exiting programming mode the display will revert to showing channel numbers, not frequencies.)

Prior to initial programming, you may want to perform a Memory Clear.

With CN8 in the set mode: SIMULTANEOUSLY press and hold the AUX. and SCAN and D/A while turning the power switch ON. This will remove any frequencies which were factory installed for testing purposes. The radio automatically enters the Option setting mode after memory clear.

To enter the Option Setting Mode without clearing memory, SIMULTANEOUSLY press and hold AUX and SCAN buttons while turning power ON (CN-8 on the main board must be in the set position).

OPTION SETTING MODE

(Press PTT between all functions to store data and proceed to next function)

FUNCTION SELECT	DISPLAY READS	ROTATE CHANNEL SELECTOR TO
1 BAND RANGE	150.000~	100Mhz SECTION (150 or 450)
2 TIME OUT TIMER (default=off)	OFF	Off-30-60-90-120-180 Sec
3 BUSY CH LOCKOUT when channel busy	b On	Off/On (default=on) no TX
4 DEL/ADD CONDITION see RX ch & DEL/ADD	dA On	On=user select, off=fixed
5 MIC HOOK OPERATION hook, mon off hook	H On	On=scan on hook, PTT off Off=no scan, ptt on/off
hook, no offhook mon.		
6 PRIORITY CHANNEL	P FI	FI=FIXED US=user

selectable (default=fixed)

ADDITIONAL NEW FEATURES FROM SN 41200000

7 MONITOR SWITCH	En On	On=press to disable
decode, hold to disable	Sq.	Off=press to disable
Squelch (default=on)		
8 OFF HOOK MONITOR	dE Off	On=no off hook monitor,
off=monitor off hook		
9 OFF HOOK SCAN	sc Off	On= off hook scan,
off=scan on hook only		
10 END	END	(turn off power)

RECOMMENDATIONS for NEW FEATURE SELECTIONS.

*Off Hook Monitor (dE OFF) is only enabled if On-Hook Scan is selected(SC=OFF)
 *The "Last Called" option in the revert channel selection supported in units bearing SN of 50700000 and higher only. Prior to this S/N, the Last Called revert feature operated to specifications outlined for certain export models only.
 *The Revert channel during On-Hook scanning is the Priority channel only. The revert channel and Resume B selection is skipped during self programming when On Hook scanning is selected.

In the user mode, the display skips unprogrammed channels. During programming mode any mistakes in programming can be reprogrammed over but channels cannot be deleted once entered unless memory is cleared, and all desired information reprogrammed. When all desired tone and frequency entries are completed, continue pressing PTT (stepping across unprogrammed channels) until END is displayed. If any undesired channels were displayed prior to END, the memory

must be cleared and reprogrammed. (memories may be cleared individually when using KPG6D programming software and KPG4 cable by hitting all spaces.)

FREQUENCY PROGRAMMING MODE

TK-705D AND TK-805D FREQUENCY, AUXILIARY & SCAN Programming
To enter the frequency programming mode, SIMULTANEOUSLY press and hold the AUX and D/A buttons while turning power ON (CN-8 on the main board must be in the SET position)

CH1 RX FREQ (channel number appears in lower right hand of display.)

Set RX freq by turning ch. sel., hold AUX key when turning to change 1mhz

Press SCAN to change channel step from 10 and 12.5kc UHF or 5 and 6.25kc VHF

Press D/A key to enable delete/add scan function for this channel

Press REC to enable AUX switch function on this channel (selected later) PTT

RX TONE TYPE

Use ch selector to set RX tone type, QT (tone) or DQT (digital) or OFF PTT

RX TONE FREQ

Display reads St for tone or S dt for digital

Set receive tone or digital with ch selector=.1hz, Ch sel+AUX for 1s digit,

sel+REC for 10s digit on tone. For digital, ch selector=1s, AUX+ch sel=10s,

REC+ch sel=100s, SCAN=normal/inverse DQT (note that non-standard tones

can be can be selected for both tone or digital)

PTT

TX FREQUENCY

Note: when TX settings are programmed the TX symbol (--/) will be displayed

Use ch selector to set TX freq (or press PTT to set no tx (RX only channel),

Ch sel+AUX=1mhz

Use SCAN button to set step size (see above, same as RX) PTT
TX TONE TYPE
Set TX tone type (same as receive, see above)
PTT
TX TONE FREQ
Set tone freq (same as receive, see above)
PTT
- Repeat for all ch (bypass ch. by pressing PTT on blank ---.---
- channel.)

AFTER CHANNEL 16, PROGRAMMING ENTERS OPTION SELECT MENU (use Ch
Sel to select)
AUX Sets AUX button function, DRS=digital recording (must have
option boards),
2tone= two tone sequential decode, dt=DTMF, tA= talkaround.
Only one AUX
condition can be set for all channels, however it can be
turned on or off
individually for specific channels in operation mode.
PTT
RESUME TIME A
Sets resume scanning delay time after receiving call in .5
sec. steps, PTT
RESUME TIME B
Sets delay before scan resumes after transmit (off hook scan
mode).5 sec PTT
FIXED PRI CH
If option setting for priority is set at FI, fixed priority,
select ch number,
If set at US (user selectable) this will be skipped during
programming, PTT
LOOKBACK TIME A
This sets the time between samples looking back at the
priority channel PTT
LOOKBACK TIME B
This sets the time between samples when looking back at the
priority channel
when the priority channel is busy but the signal does not have
the PL tone
you have programmed into the priority channel.
PTT
REVERT CH (only enabled during off hook scan
Use ch sel to set the channel the transmitter will revert to

when PTT is
 pressed during off hook scan.
 St = last channel selected before the scan switch was pressed
 P CH = priority channel
 CA CH = last channel a call was received on
 US CH = last channel used (that was transmitted on) before
 scan was pressed
 PTT/ END

In programming mode pressing the MON (SPKR symbol) button and
 turning the
 channel selector knob will take you back or forward in the menu
 selections
 in case you make a mistake or decide to make changes to
 previous settings
 while programming. In operation mode, to add/delete channels
 for scanning,
 press scan and add/delete button.

Adjustment pots on the TK705D/805D, facing front of radio, left
 to right

VR4=max deviation set , VR3=Mic sensitivity set , VR7=dig
 waveform bal
 (set for squarest digital waveform as seen at output frequency
 on service
 monitor), VR6=PL tone level (500 to 750 ~), VR5=power out (set
 to 27W) right
 side of silver VCO box VR1=preset squelch level, VR2=ABTO (this
 is the level
 control when using the digital audio recording option board)

TC1= frequency (TCXO) adjustment (NOTE:THIS IS ONLY ON THE
 705D, THE 805D
 FREQUENCY ADJUSTMENT IS LOCATED ON THE TCXO MODULE WHICH IS TO
 THE RIGHT OF
 THE SILVER VCO BOX. TC1 on the 805 is a RF stage alignment
 cap...)

RA/RD jumper (CN7)
 Is for use when using the radio with the digital recording
 option. RA
 position is for audio that follows the squelched audio, RD

position is for unsquelched audio, (noise and audio)

Cloning instructions

On both radios to be cloned -

Turn power ON while holding down MON and AUX keys, wait until radio beeps

.

Release AUX key first, radio displays -C- for clone.

(NOTE: Releasing MON key first puts radio in PC programming mode, radio displays pc -C-)

Disconnect microphone cable from microphone and plug between both radios mic jacks.

On MASTER (transmit) radio,

Press MON key to send data, transmit radio will display transmit symbol ---/

On SLAVE (receive) radio display reads -C- r

Wait approx 40 seconds, both radios will beep and display END

Turn both radios OFF and back ON to use.

To clone another radio without turning master radio off, press MON key again to go back to -C- mode, hook up another slave radio and press MON again. Repeat as needed.

OPERATION OF FRONT PANEL CONTROLS - TK705/805

I/O = ON/OFF power toggle switch, (push button upper left)

The MON button (Speaker Symbol) is the "Monitor" button referred to in the programming

sheet. It operates as follows. On a tone channel, one quick press displays the "speaker

symbol" and disables the receive PL for monitoring all transmissions on the channel.

A

long press of the button displays the speaker and no transmit symbols and completely disables the squelch giving noise, handy for adjusting the volume when no signal is

present. On a non-tone channel, one quick press goes directly to squelch noise.

The AUX button is programmable. It cannot be programmed for each channel independently but must be set radiowide for all channels from the four options available. It can, however, be turned on/off for each channel. Most usable is programming it for "talkaround" (tA) and enabling it on all channels. This gives simplex operation on any programmed repeater frequency and of course does nothing on programmed simplex channels.

It displays "tA" on the display when the AUX key is pressed. The programmable options

for the AUX key are TA (talkaround), DRS (digital recording system), DTMF and 2tonE.

All these other functions require optional boards which are no longer available.

Volume = volume control setting

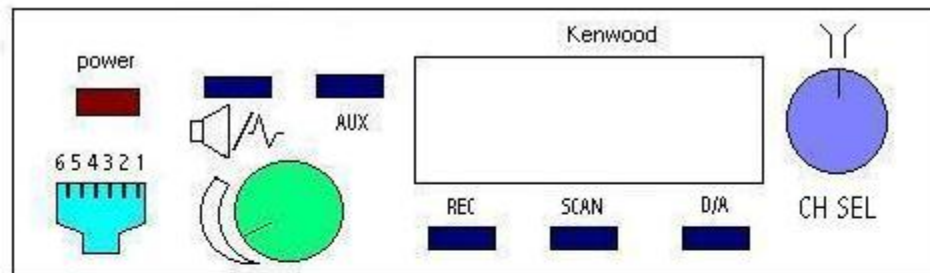
(The 3 buttons under the display are only on the "D" model.)

SCAN, this button is toggle ON/OFF, if you have priority set to USER then the priority channel becomes the one that you start scanning from. Otherwise priority is FIXED. D/A is also a toggle. If you want to delete/add a channel on the scan list you have to be out of scan, dial up that channel, then hold scan button while pushing the D/A button to delete or add it to the list, an ADD symbol is displayed in upper corner on channels in the scan list, nothing is displayed if they are not in the scan list. REC, this button is used only if there is an optional digital recording board installed.

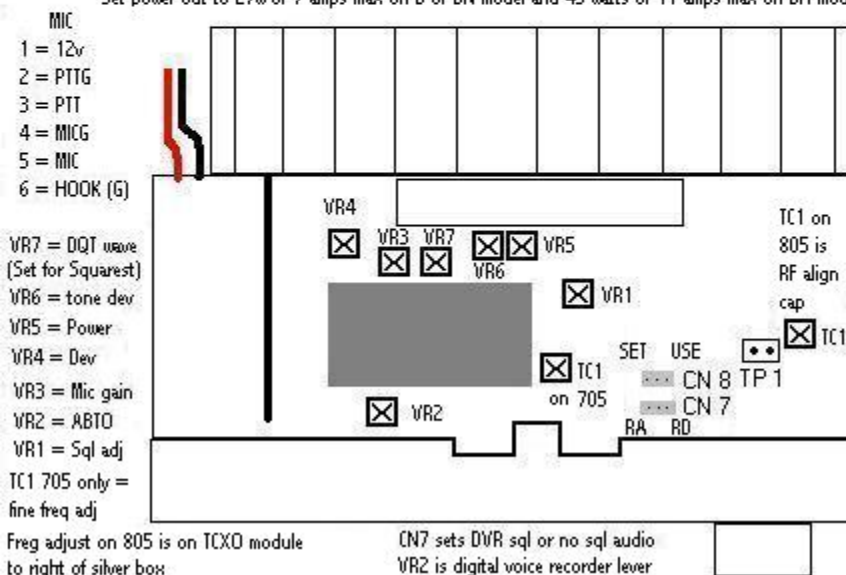
V = Main channel selector used for selecting channels and programming functions.

Adjustments

Kenwood 705D 805D



Set power out to 27w or 7 amps max on D or DN model and 45 watts or 11 amps max on DH model



T
O
P
V
I
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W

Kenwood Gmrs

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