

IC-2720H Extended TX/RX Mod

U.S.A. Users Please note!

Modifications of FCC Type Accepted Radios for Amateur Service are NOT authorized for use on other bands (particularly FRS, Marine, Business, etc) -- Modifications to Amateur Radios for use on MARS/CAP bands are for Authorized Users only (Licensed by the appropriate service).

The mods shown on this page are for Amateur information purposes only.
Only make modifications at your OWN RISK. Do not transmit outside the limits of your FCC License authorization. Modifications made to your Icom radio WILL VOID YOUR WARRANTY. (and you may screw it up!)

PLEASE Do Not 'Trash' other radio services/bands with modified Amateur Radios!

These mods are NOT guaranteed to work with your particular model.

To modify the IC-2720H for extended xmit
(MARS/CAP),
remove the two diodes shown in the drawing and picture

The Extended
Transmit
Freqs After
the Mod are :
VHF: 136.000
- 173.995
UHF: 400.000
- 469.975

The Receive
Frequencies
should be:
118.0 MHz -

549.95 MHz
(L & R)
810.0 MHz -
999.990 MHz
* (R)

***U.S.A. Note:**

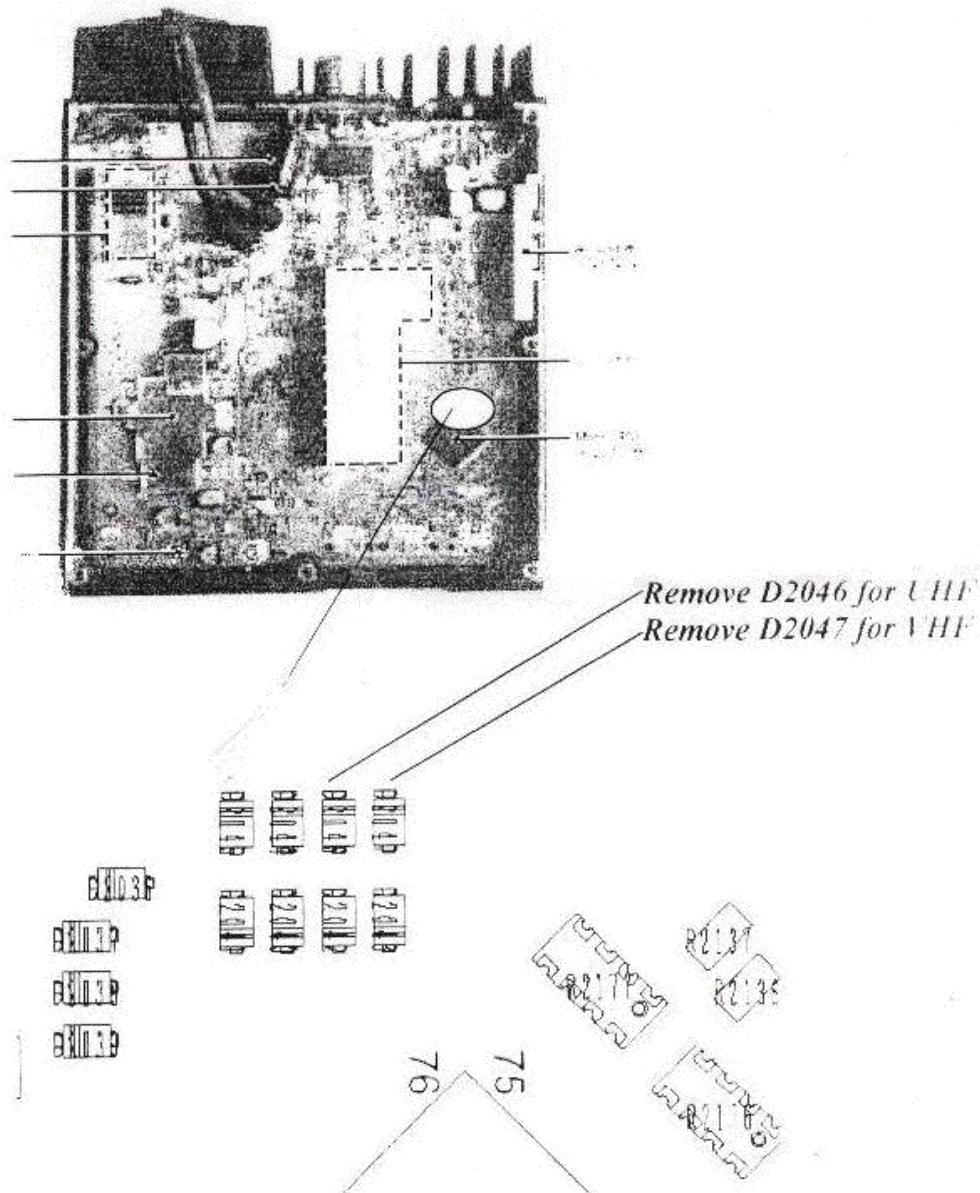
The 824.005 to
848.995 and
869.005 to 893.995
MHz ranges are
inhibited on the
U.S. models in
compliance with
US law and the
Electronic Privacy
Act.

Monitoring cell
phone frequencies
is illegal in the
U.S. In order for
any radio to be
sold in the U.S.
(and receive FCC
approval), it
cannot be able to
be 'moded' to
receive those
frequencies.

And YES it will receive fine on 220MHz amateur band,
but will NOT transmit there.

This drawing shows a cluster of 8 miniature diodes and
which two to

remove



My IC-2720H (US version) ONLY HAD THESE TWO DIODES INSTALLED.

The other 6 shown in the drawing were already removed.

Note: Some US models have a *third* Diode Installed - D2045

This INHIBITS the Cross-band repeater function -
Remove to enable it

I removed the diodes and powered up the radio
WITHOUT resetting and the extended xmit was
available without loosing any memories.

Here is a picture I took of my radio



As you can see in the picture, they are the only two installed in that 8 cluster area, remove them both. If you have a 3rd diode installed, remove this as well -- this will enable your cross-band repeater function on some models (European, etc) - but shouldn't be necessary on US models.

The modification is simple - just be careful with your soldering iron, the jumpers are small SMT parts, you will need tweezers to pull them off, or if you are a barbarian like me, just heat the damn thing up and knock it off the board with the end of needle nose pliers or something and then shake it off the board. (others report that they just smashed them with needle-nose pliers - no soldering)

See the note below about opening up the *European* version (IC-2725E) with SOFTKEYS and not diode mods. (please note, I don't have a IC-2725E and so, haven't tried the softkey thing, so I really don't know if it works - I am just relaying the info)

European IC-2725E Receive Notes

(this will not work with the US IC-2720)

I have IC-2725E. This model covers 144-146 MHz and 430-440 MHz RX and TX "out of the box". But when you power on the radio with DUP/MONI and LOW/PRIO button pressed (no internal modification needed) you will expand the RX range (TX stays the same) to the following numbers:

left side: 118.000-549.995 MHz

right side: 118.000-173.995, 375.000-549.995,
810.000-999.990 MHz

There are no gaps within these bands. I can not tell anything about sensitivity within 800-999 MHz as I do not have a proper antenna and there is no "analog-FM" activity within this band in my area except GSM phones (880-911/935-956) which use 200kHz channel spacing digital mode transmission.

Regards, Pawel, SP7XFT

2720 Navigation links

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