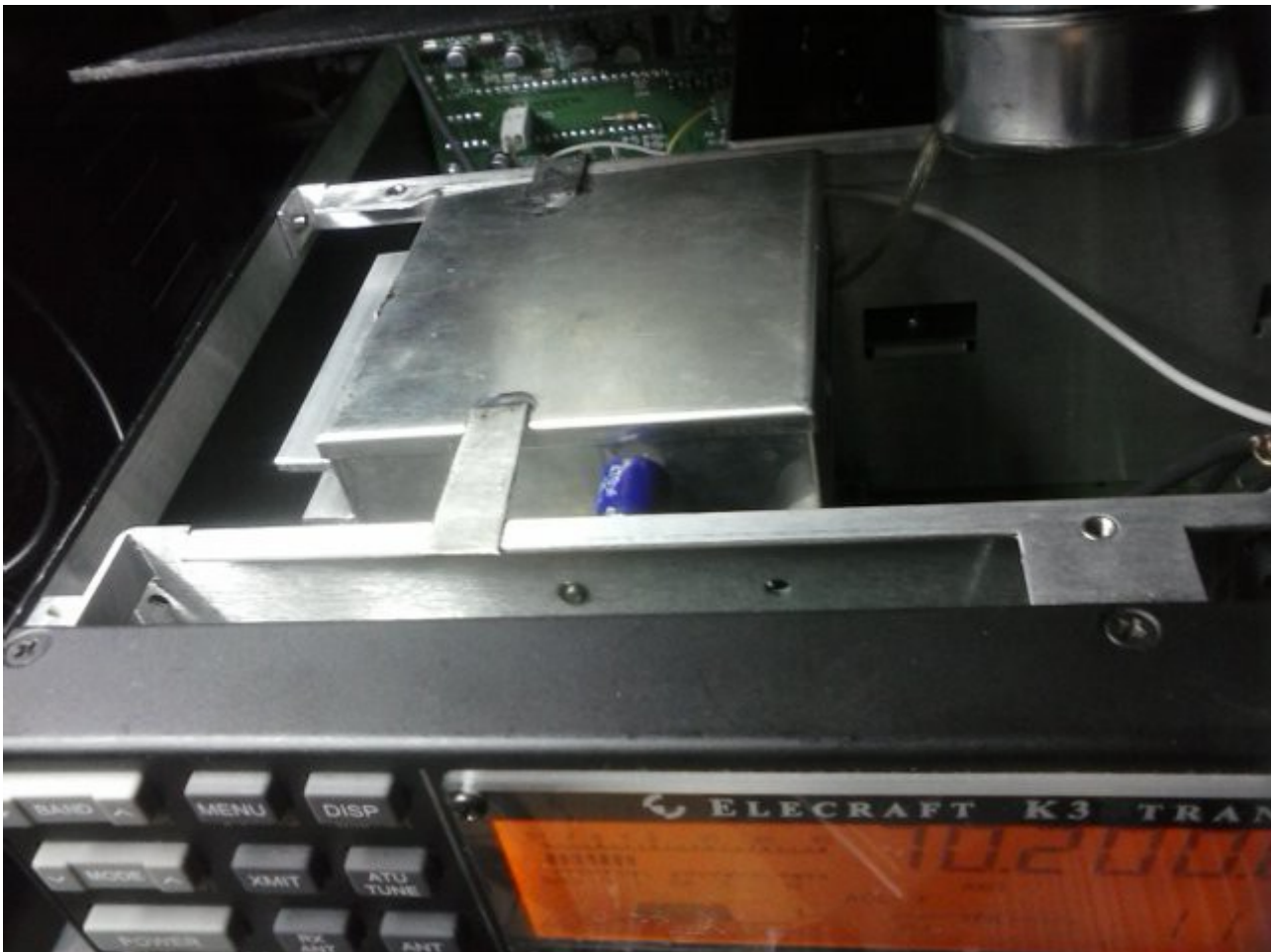


INTERNAL TRANSVERTER'S FOR 70 MHZ FOR ELECRAFT K3



The transverter **HG 70-K** (70 Mhz) has designed for internal use on Elecraft K3, using the 28 Mhz like IF ..

In reception mode, the amplifier has a low noise factor, <1 db and the IP3 >+29 dbm.

No need external power supply and no need tuned.

The installation of the transverter HG 70-K into the Elecraft K3 ,is very easy and fast.Only you need solder 3 wires , connect 2 coaxial wires and install connector for 70 MHZ Antenna Mhz.You need 30 minutes of work.The transverters is fully assembled and ajusted..

As option can be installed precision crystal heater with temperature $40.8^{\circ}\text{C} \pm 1.5^{\circ}\text{C}$ in 42 Mhz Oscilator.This is designed only for Elecraft K3.

REQUIREMENTS OF ELECRAFT K3:

K3 WITH INTERFACE TRANSVERTER KXV3A...The KXV3 is not valid.

NO INTERNAL TRANSVERTER INSTALED LIKE K144XV.

IF YOU HAVE INSTALLED THE K144XV TRANSVERTER YOU CAN NOT INSTALL THE HG70-K TRANSVERTER.

ELECRAFT K3, KXV3, KXV3A and K144XV is a registered trademark of Elecraft ,Inc.

Transverter HG 70-K PRE-MANUAL

Specifications:

Installation : Internal (Inside ELECRAFT K3)

Full QSK

Measures : 73mmX73mmX30 mm

Supply Voltage: 12 VDC (Get of ELECRAFT K3 internally)

Current Drain :

Received : 100 mA...130 With the precision crystal heater

Transmit: <3 A

Frequency Range:70,000-72,000 MHZ...Optimized 69,800 to 70,400 Mhz

TRANSMITTER

Power output (50 Ohm load) : >10W14W at 1.1:1 SWR

Operatinf modes : SBB,FM,CW,Digital,etc

IF range :28,000-30,000 Mhz

TX RF Mixer Mini Circuits ADEX-10H (+17dbm)

IF input powe range :1mW

Full QSK

RECEIVER

Noise Figure : <1 dB

Conversion gain :Typical

RX RF Mixer Mini Circuits ADEX-10H(+17dbm)

3rd-Order Intercept :>+29 dbm

OPTIONAL : Precision Crystal Heater for 42 Mhz

REQUIREMENTS OF ELECRAFT K3:

K3 WITH INTERFACE TRANSVERTER KXV3A...The KXV3 is not valid.

NO INTERNAL TRANSVERTER INSTALED LIKE K144XV.

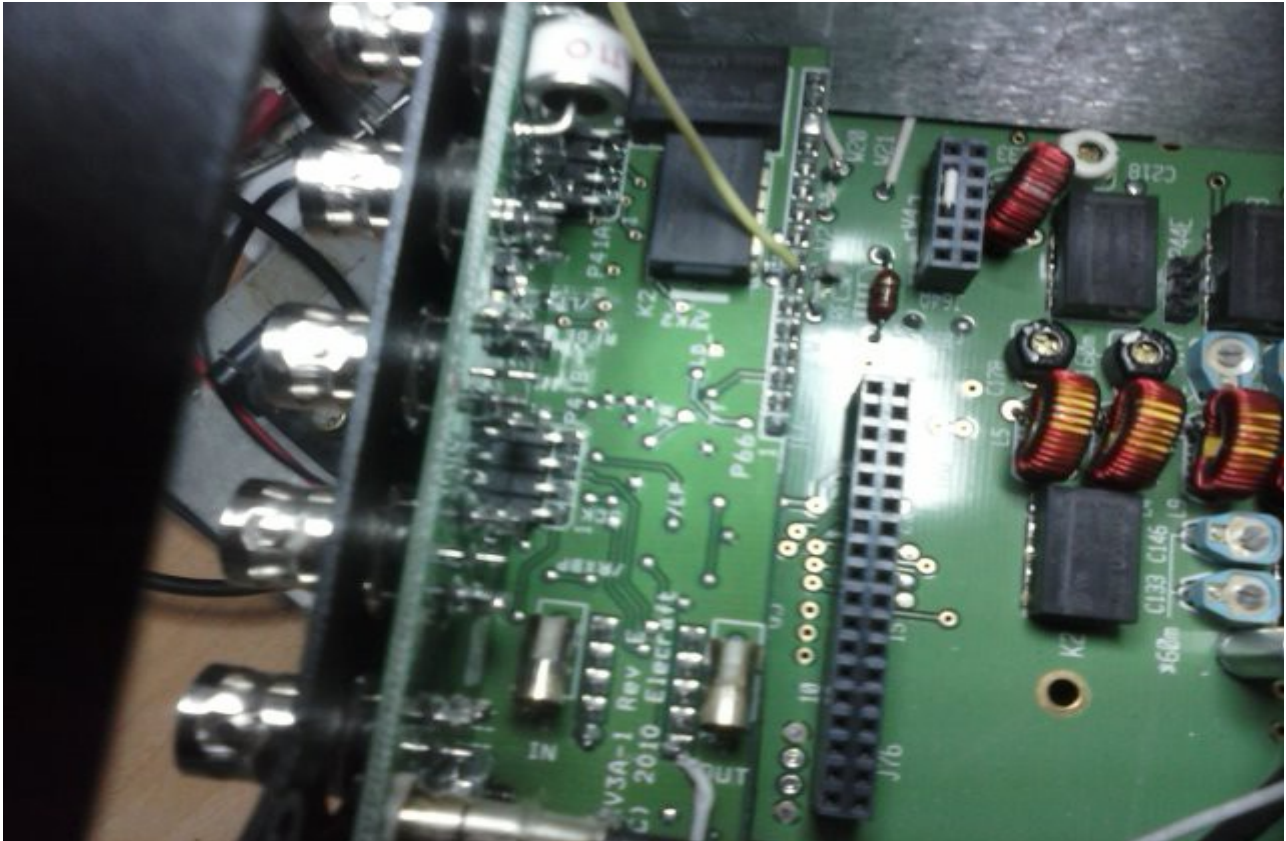
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Transverter HG 70-K PRE-MANUAL

INSTALLATION OF TRANSVERTER INSIDE ELECRAF K3

The installation of transverter inside of Elecraft K3 is easy. Only need solder 3 wires for power supply and control.



Transverter HG 70-K PRE-MANUAL

Connect 2 wires coaxial into IN/OUT of KXV3A



Transverter HG 70-K PRE-MANUAL

And make hole and install BNC Female Connector for 70 Mhz Antenna at the rear of K3



Transverter HG 70-K PRE-MANUAL

K3 SETUP FOR HG70-K TRANSVERTER

MENU :

XV1 ON YES
XV1 RF 70
XV1 IF 28
XV1 PWR..... L 1.00
XV1 OFS 0.00
XV1 ADR..... Int. Trn0

When you select by band button and change for transverter you have 70 Mhz and the transverter is power on.If you change of band for example at 50 Mhz the transverter is power off.

See video on youtube..... <http://www.youtube.com/watch?v=DIBGHQF5hp0>

more info:

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PRE MANUAL Rev 1