

**KURANISHI FC-1300 UHF CONVERTER
FOR THE YAESU FRG-9600 RECEIVER**

Thank you for purchasing the FC-1300 Converter. This unit is manufactured under strict quality control standards, and it is our hope that it will serve you well for many years. However, if you find any or suspect any damage to have occurred during shipping, please contact the dealer from whom you purchased it immediately with full details.

SPECIFICATIONS

Supply voltage:

13.8 VDC, 15 VDC absolute max.

Current consumption:

approx. 150 mA

Local Oscillator frequencies:

400/800 MHz, switch selectable

Variable Oscillator tuning range:

± 2.5 kHz or ± 5 kHz

Connector types:

Input - type N, Output - type M

Dimensions (WHD):

121 x 37 x 144 mm (exc extrusions)

Weight:

700 grams

HPF cut-off frequency:

800 MHz

Supplied accessories:

DC cord, Instruction Manual,
Guarantee Card

FEATURES

- switch selectable local oscillator frequencies of 400 or 800 MHz
- front-end RF amplifier and custom-made DBM to provide high sensitivity with minimum intermodulation
- 800 MHz high-pass filter to suppress interference from signals at lower frequencies
- low-loss type-N input connector
- fine Tuning knob to allow tuning between receiver channel steps.
- bypass circuit allows normal receiver operation automatically when the FC-1300 is switched off
- includes protective circuit to avoid damage from reversed power supply connection

CONTROLS, INDICATORS & CONNECTORS

- (1) Local Oscillator Frequency selection indicator
- (2) Fine Tuning Knob - preset to the 12 o'clock position except when fine tuning.
- (3) Power ON/OFF switch.
- (4) Power Input Jack - connect the supplied DC cable here.
- (5) Antenna Input Jack - connect your antenna here using a type-N plug and good quality coaxial cable. The antenna should be a wide-band type, located outdoors as high as possible for best performance.
- (6) Output Jack - connect a short piece of coaxial cable (one meter or less, with type-M plugs on both ends) between this jack and the antenna jack on the FRG-9600.
- (7) Local Oscillator Frequency Selector switch - set according to the band selected on the FRG-9600, as described in the next section.

OPERATION

After connecting the antenna and power supply to the FC-1300, and the FC-1300 to the FRG-9600, switch on the POWER.

To receive signals between 905 and 1300 MHz, set the Local Oscillator Selector to the 400 MHz position, and add 400 MHz to the frequency displayed on the FRG-9600 to determine the actual receiving frequency. That is, to receive between 905 and 1300 MHz, the displayed frequency on the FRG-9600 must be 505 to 900 MHz.

If intermodulation occurs on a frequency of interest, try switching the Local Oscillator Frequency to 800 MHz, and retuning the FRG-9600 400 MHz lower: the actual receiving frequency will now be 800 MHz above the frequency displayed on the FRG-9600, so the displayed range corresponding to an actual receiving range of 905 to 1300 MHz is 105 to 500 MHz.

In any case, the formula to determine your receiving frequency is;

$$\text{FRG-9600 display} + \text{Local Osc. Freq.} = \text{Actual Receiving Freq.}$$

If an SSB or FM signal sounds distorted after tuning the FRG-9600 for the clearest signal, adjust the Fine Tuning knob on the FC-1300 for clearest signal. Note that the tuning range of the Fine Tuning knob is ± 5 kHz when the Local Oscillator Frequency is 800 MHz, and ± 2.5 kHz when the Local Oscillator Frequency is 400 MHz.