

# TM-261A

## CIRCUIT DESCRIPTION

### CIRCUIT CONFIGURATION BY FREQUENCY

The TM-261A, incorporates a PLL synthesizer which uses a digital VFO to allow any channel step of 5, 10, 12.5, 15, 20 or 25kHz to be selected (See Figure 1).

The receiving system utilizes double-conversion techniques. That is, an incoming signal is mixed down to the 1st intermediate frequency (IF) of 10.7MHz (M1,M2,M3), 30.825MHz (K), using a 1st local oscillator frequency of from 105.75 to 166.820MHz (K).

133.300 to 135.255MHz (M), 125.300 to 163.205MHz (M2,M3). The 1st IF signal is then mixed with the 2nd local oscillator frequency of 10.245MHz (M,M2,M3), 30.370MHz (K) to generate the 2nd IF of 455kHz.

The transmitting system consists of a PLL circuit which allows direct modulation and direct frequency division. Signals from the PLL circuit are amplified by a linear amplifier for transmission.

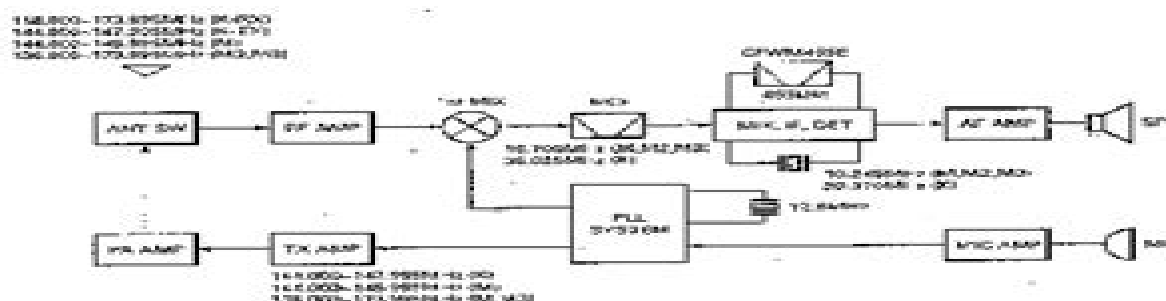


Fig. 1 Frequency configuration

### RECEIVING SYSTEM

#### Overview

Incoming signals from the antenna pass through a low-pass filter in the first block of the transmitter system via a receive/transmit switch diode.

The signals are then passed through the band pass filter (BPF) by the single-stage varicap tune circuit where the high-frequency components are amplified by a GaAs FET. The signals are then fed into a three-stage band-pass filter that uses varicap tuning to reject unwanted signal components, and is fed to the 1st mixer. The 1st mixer uses the 4-channel MCS FFT (C4) that are used in the RF stage to obtain better two-signal characteristics. The 1st mixer mixes the signal with the 1st local oscillator frequency and converts it to the 1st IF (10.7MHz (M,M2,M3), 30.825MHz (K)). The signal then passes through two-stage monolithic crystal filters (MCF) to remove unnecessary near-by frequency components. The signal from the MCF is used as the 1st IF signal.

The 1st IF signal is amplified and fed into IC1 (KCD10) in the FM IF HIC. The IF signal is then mixed with the 2nd local oscillator frequency of 10.245MHz (M,M2,M3), 30.370MHz (K) to generate the 2nd IF of 455kHz. The 455kHz signal is then passed through a 5x element ceramic filter (CFVVM455F), and fed back into IC1 for additional amplification. The output signal from the IC1 is then fed into a power amplifier via the audio volume control for application to the speaker.

#### S-meter circuit

S-meter control voltage from IC1 (KCD10) in the FM IF HIC is fed into the control unit. The CPU converts the voltage from an analog to digital signal in order to operate the LCD bar meter.

# Tm 261a Service Manual

**M Planty**



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