

## UT-16A TRANSMITTER PROCEDURE

1. Audio from the microphone is coupled through IC BA4510 applied to Audio amplifier and buffer stages. Adjust VR1 to control audio amplify level.
2. D1(Variable Capacitance Diode) of the VCO modulate the audio signal into RF signal
3. The RF signal of 682MHz to 698MHz is generated from VCO and is locked via PLL IC U4 when selected. Adjust VC C31 to correct the exact frequency. The RF level at this stage is about  $-15\text{dBm}$ .
4. The locked RF signal is coupled to buffer ( Q8 ) and amplifiers ( Q9 & Q5 ) .
5. After RF pre-amplify and final amplify,L4,L8,C63 & L11,C76 to filter the spurious and harmonics and have the correct frequency pass through the maximum pass-point of the filter to transmit out. At this stage, the RF level is about  $7\text{dBm}$ .

MASCOT ELECTRIC CO . , LTD .

DATE : DEC 08 2003

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1. Audio from the microphone is coupled through IC BA4510 applied to Audio amplifier and buffer stages. Adjust VR1 to control audio amplify level.
2. D1(Variable Capacitance Diode) of the VCO modulate the audio signal into RF signal
3. The RF signal of 740MHz to 752MHz is generated from VCO and is locked via PLL IC U4 when selected. Adjust VC C31 to correct the exact frequency. The RF level at this stage is about  $-15\text{dBm}$ .
4. The locked RF signal is coupled to buffer ( Q8 ) and amplifiers ( Q9 & Q5 ) .
5. After RF pre-amplify and final amplify,L4,L8,C63 & L11,C76 to filter the spurious and harmonics and have the correct frequency pass through the maximum pass-point of the filter to transmit out. At this stage, the RF level is about  $7\text{dBm}$ .

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1. Audio from the microphone is coupled through IC BA4510 applied to Audio amplifier and buffer stages. Adjust VR1 to control audio amplify level.
2. D1(Variable Capacitance Diode) of the VCO modulate the audio signal into RF signal
3. The RF signal of 790MHz to 806MHz is generated from VCO and is locked via PLL IC U4 when selected. Adjust VC C31 to correct the exact frequency. The RF level at this stage is about  $-15\text{dBm}$ .
4. The locked RF signal is coupled to buffer ( Q8 ) and amplifiers ( Q9 & Q5 ) .
5. After RF pre-amplify and final amplify,L4,L8,C63 & L11,C76 to filter the spurious and harmonics and have the correct frequency pass through the maximum pass-point of the filter to transmit out. At this stage, the RF level is about  $7\text{dBm}$ .

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