

Five LEDs are connected as audio signal leveling indication.

- **BUFFER AMP** circuit is achieved by using TR8 & TR18 and several components. This circuit perform the PRE-AMP for amplifying the audio signal to Bar-Graph circuit.

2. TX UNIT

- **SPURIOUS REJECT AND ANTENNA MATCH** is a filtering and matching circuit, which includes three coils of L1&L2 and several capacitors as marked. They are used to ensure that the wanted signal is being sent out onto the antenna without other spurious signals.
- **RF POWER AMP.** is a transistor configuration. The RF signal is applied to the base of this transistor of TR1 for amplification only, this amplified signal is then sent to the antenna via antenna matching circuit.
- **3 X FREQUENCY MULTIPLIER** is a combination of transistor of TR2 & L3, which are constructed to form a frequency multiplier. The coil of L3 is used to adjust the required frequency to be sent out.
- **OSC. & MODULATION CIRCUIT** is formed by the circuit of TR3, L4, C9, C10, VC1 and Channel Select of SW2. The crystals of XT1 & XT2 are the selected frequencies at 16.610MHz & 16.630MHz.
- **VOICE BUFFER AMP** circuit is achieved by using TR10 and several components. This circuit perform the PRE-AMP for amplifying the voice signal to FM modulator.
- **VOICE AMP. & AUTO MIC CONTROL** are the section of mic. amplifier and automatic level control circuit. The transistor TR8-9 and Diode D4-5 and C16&R26 are utilized to achieve this requirement.
- **BATT LOW VOLTAGE INDICATION + VOLTAGE DET.** are achieved by using the TR4-6 associated with additional components. During normal operation, the LD1 is staged OFF, but it will flash when voltage is below the detected low battery's level.
- **REGULATOR** Circuit includes the transistor of TR11 and ZD2. They are acted to provide constant voltage to the circuit.
- **POWER ON/OFF SWITCH** of SW2 is used to switch the whole unit power on/off control. D6 is used to block and switch to the required power from adaptor if it is connected onto the DC jack.
- **AC REGULATOR** of TR7, ZD3. They are acted to provide constant voltage to the circuit to reduce Hum signal from the adaptor.