

2. TX UNIT ("1226B" FOR BABY UNIT):

- **SPURIOUS REJECT AND ANTENNA MATCH** is a filtering and matching circuit, which includes three coils of L1, L2 and L3 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 Q5 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 Q6 & 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** are formed by the circuit of Q7, L4, C28, VC1 and Channel Select of SW3. The crystals of X1 & X2 are the selected frequencies at 16.610MHz & 16.630MHz.
- **VOICE AMP. & AUTO MIC CONTROL** are the section of mic. amplifier and automatic level control circuit. The IC of U3-7137, diodes of D9, 10, transistor of Q8 and several capacitors are utilized to achieve this requirement.
- **REGULATOR** Circuit includes the ZD2 & Q2. They act to provide constant voltage to the circuit.
- **POWER ON/OFF SWITCH** of SW1A is used to switch the whole unit power on/off control.
- **MUSIC CIRCUIT** includes music IC of SN67018 and volume control of SW4A-50K ohm for controlling the volume level.
- **AUDIO AMP.** is the section of output amplifier for amplifying the music signal and apply the signal to the speaker of SP1.
- **LIGHT-NIGHT CONTROL** includes the circuit of U1A, Q1, Q3, Q4, SW1, SW2, LD1, LD2 and their associated circuit. The SW1B has three positions of OFF-ON-TIMED setting. When it is set to "ON" position, the light will come and stage on permanently. When it is set at "TIMED" position, the timing is controlled by the components of C9 and R13 for the specified timing. Q4 and its associated circuit is the timing control circuit. U1B, Q3 and its associated circuit are used to generate a signal for controlling at the pin-2 of U1A as it is driving circuit. The LEDs of LD1 and LD2 are the light night circuit to provide sufficient light when the unit is set either "ON" or "TIMED" position.