

TELSON INFORMATION & COMMUNICATION CO., LTD.

TEL : 82-2-887-2690 (EXT 766)
FAX : 82-2-887-2693

USER'S MANUAL

1. PRODUCT INTRODUCTION

The T-20A LMR (LAND MOBILE RADIO) FROM TELSON I&C CO.,LTD. UTILIZES THE LATEST TECHNOLOGY IN ITS DESIGN AND MANUFACTURING. T-20A IS PLL (PHASE LOCK LOOP SYNTHESIZER)/MICROPROCESSOR CONTROLLED, AND OFFER 2 WATTS OF POWER WITH 16 CHANNEL CAPABILITY. MULTIPLE FUNCTIONS INCLUDING SCAN AND CTCSS/DCS SIGNALING ARE STANDARD IN THESE FULLY PROGRAMMABLE WIDE BANDWIDTH HANDHELD UNITS.

THE USE OF MICROPROCESSOR TECHNOLOGY MAKES CHANGING RADIO CHARACTERISTICS SUCH AS OPERATING FREQUENCIES AND SQUELCH CODES BOTH FAST AND ECONOMICAL. ANY COMPUTER EQUIPPED T-20A DEALER CAN EASILY REPROGRAM YOUR RADIO'S OPERATING CHARACTERISTICS, OR YOUR RADIO CAN BE "CLONED" FROM A RADIO ALREADY PROGRAMMED TO YOUR DESIRED FREQUENCIES AND CODES. THE T-20A LMR SATISFIES THOUGH ENVIRONMENTAL REQUIREMENTS WHILE PROVIDING COST EFFECTIVE AND RELIABLE COMMUNICATIONS.

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2. HOW TO USE

POWER ON/OFF, VOLUME CONTROL – TURN THE RADIO ON AND ADJUST THE VOLUME LEVEL.

ROTARY CHANNEL SELECTOR SWITCH – SELECT THE OPERATING CHANNEL OR INITIATES SCAN OPERATION.

ACCESSORY CONNECTOR (PHONE JACK AND MIC JACK) – PROVIDES ACCESSIBILITY FOR CONNECTION TO REMOTE ACCESSORIES SUCH AS A REMOTE SPEAKER MICROPHONE.

PUSH TO TALK (PTT) BUTTON – WHEN EXPRESSED AND HELD, ENGAGES THE TRANSMITTER AND PUTS RADIO IN THE TRANSMIT MODE. WHEN RELEASED, THE RADIO OPERATES IN THE RECEIVE MODE.

MONITOR BUTTON – SELECTS THE MODE OF OPERATION, CARRIER SQUELCH OR TONE SQUELCH. IT HAS TWO CASES. FIRST CASE OF PRESSING THE MONITOR KEY FOR LESS THAN 2 SEC, CHECKS THE CHANNEL IN USE SCANNING EACH CHANNEL. THEN MONITOR OPERATION STOPS AS MONITOR KEY IS RELEASED, THE RECEIVE MODE BEGINS. SECOND CASE OF PRESSING THE MONITOR KEY FOR 2 SEC, STOPS TO THE CHANNEL IN USE AND KEEPS THE RECEIVE MODE UNTIL IDENTIFYING THE NEXT MONITOR KEY. WHEN THE MONITOR KEY IS PRESSED, THE CURRENT OPERATION STOPS AND RETURNS TO THE RECEIVE MODE.

ANTENNA – HELIFLEX OR WHIP WITH THREADED BASE.

LED INDICATOR – A TRI-COLORED LIGHT EMITTING DIODE(LED) INDICATES SCAN OPERATING STATUS.

TRANSMIT TIME-OUT-TIMER (TOT) – THE TOT IS SYSTEM PROGRAMMABLE FOR 15 SECONDS TO 225 SECONDS, IN 15 SECOND INCREMENTS AND CAN ALSO BE SELECTED AS DISABLED. THE DEFAULT VALUE IS DISABLED.

CHANNEL SCAN – TO INITIATE THE SCAN FEATURE, ROTATE THE CHANNEL SELECTOR TO THE LOCATION WITH THE SCAN LIST PROGRAMMED TO IT.

POWER SAVING MODE – POWER SAVING MODE OPERATES BY THE FOLLOWING CONDITIONS. ONLY IF THE RECEIVE MODE DOES NOT HAVE THE CARRIER, POWER SAVING MODE IS ON. BUT IT IS OFF IN THE SCAN MODE. POWER SAVING MODE BEGINS AFTER 2 SEC OF FOLLOWING CONDITIONS, POWER ON, SELECTING NEW CHANNEL, FINISHING RECEIVING OR TRANSMITTING.

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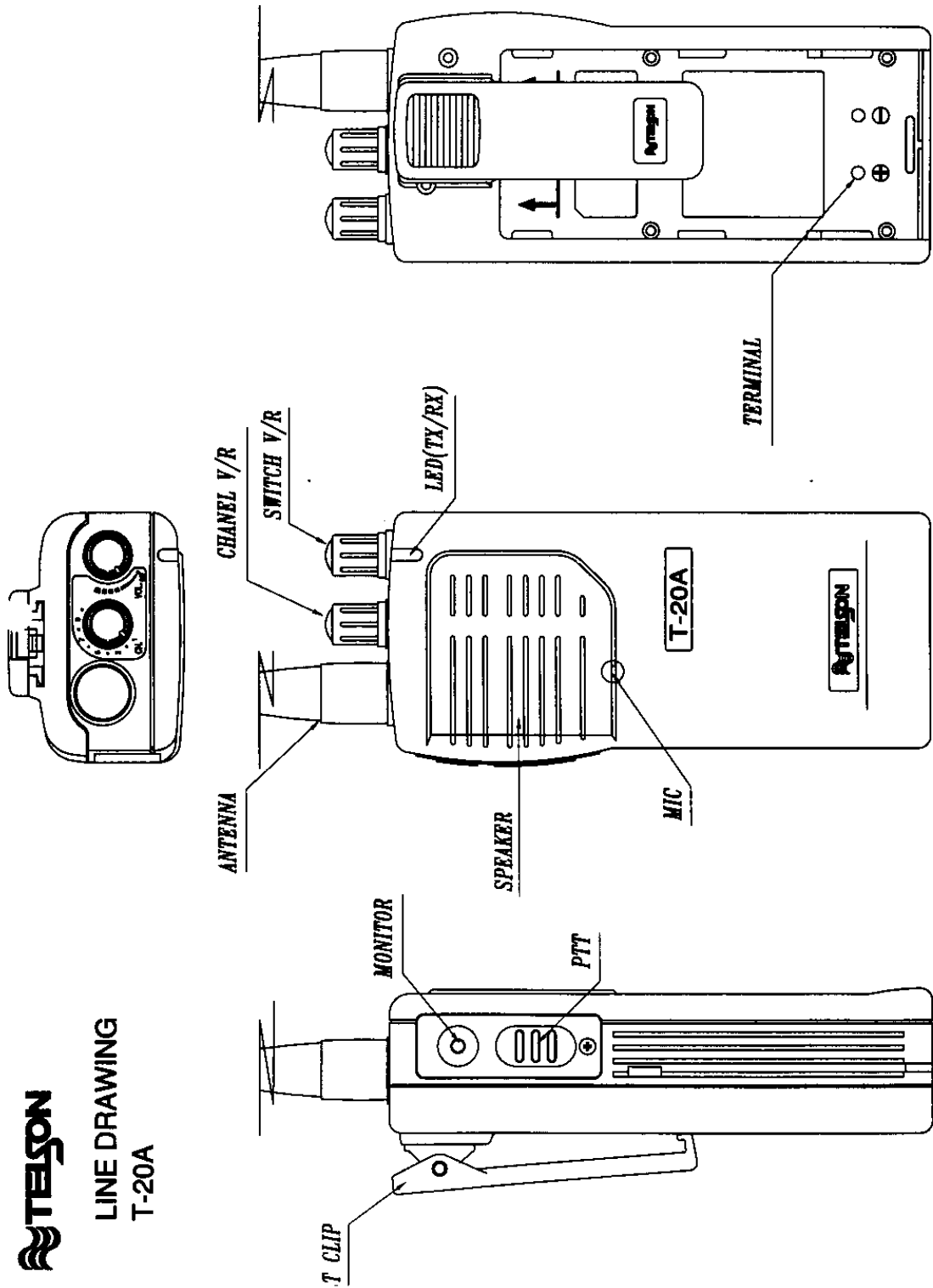
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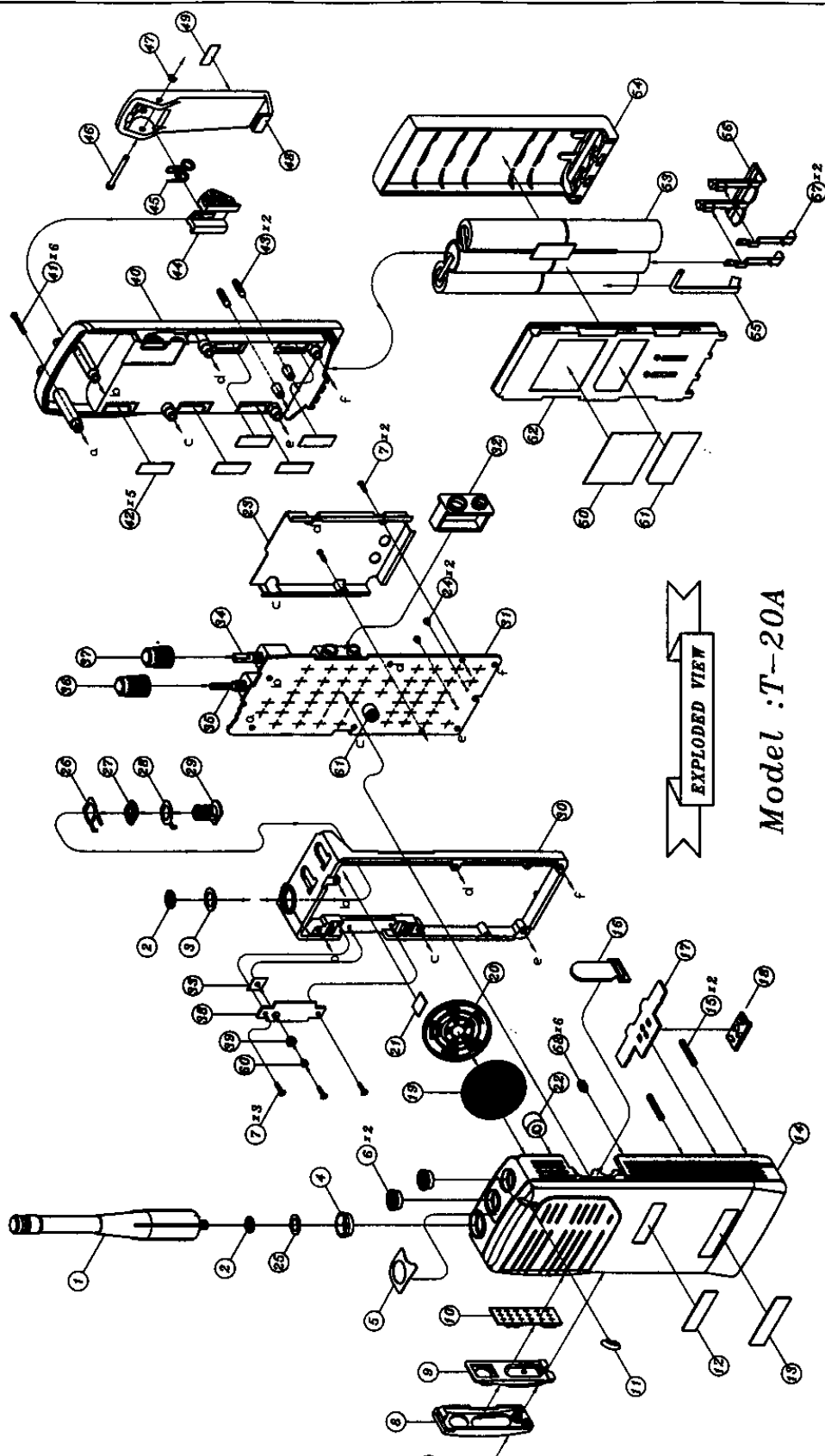
4. GENERAL SPECIFICATIONS

POWER SUPPLY	Rechargeable Nickel-Cadmium Battery, 7.5 VDC
POWER SUPPLY VOLTAGE RANGE	6.75 – 8.25 VDC
ENVIRONMENTAL	Designed to meet TIA/EIA-603
TEMPERATURE RANGE	-30°C to +60°C
RELEATIVE HUMIDITY	90% at 40°C Non-condensing
FREQUENCY CONTROL	PLL Synthesizer
NUMBER OF RX/TX CHANNELS	10 Maximum
SPEAKER IMPEDANCE	8 ohm
DIMENSIONS	133(L) X 63.5(W) X 37.5(H)
WEIGHT	360g with Battery
STANDBY	< 30 mA (Battery Save On)
RECEIVE	< 250 mA
TRANSMIT	< 1000 mA (2W)
800mAh	8 hrs @ 2W (Battery Save On) 6 hrs @ 2W (Battery Save Off)
VHF OPERATION BANDWIDTH	R/TX 150 – 174MHz
OUTPUT POWER	2W
CONDUCTED SPURIOUS EMISSIONS	-60 dBc max
RADIATED SPURIOUS EMISSIONS	-60 dBc max
MODULATION SYSTEM	8K50F3E/16K0F3E
AUDIO FREQUENCY RESPONSE	6dB per octave Pre-emphasis response
AUDIO DISTORTION	< 5% @ 60% System Deviation
MAXIMUN DEVIATION	+/- 5kHz @ 25kHz BW
TEMPERATURE STABILITY	+/- 5PPM

TELSON

LINE DRAWING
T-20A





EXPLODED VIEW

Model : T-20A

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