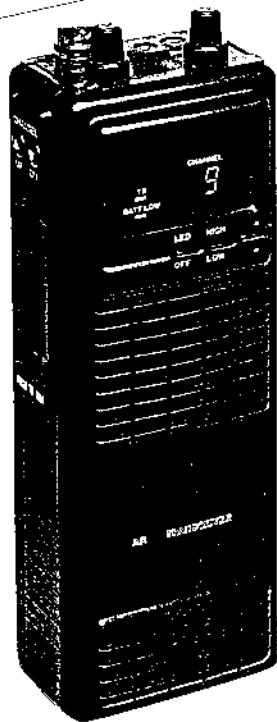


GME Electrophone::: INSTRUCTION MANUAL



**MODEL
TX800**

AM HAND HELD

TRANSCEIVER

**STANDARD COMMUNICATIONS
PTY. LTD.**

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GENERAL DESCRIPTION

The GME TX800 is a 40 channel synthesised 27MHz hand held transceiver specifically designed for short to medium range or point to point communications. The TX800 includes a two digit LED channel display, electronic UP/DOWN channel selection and a HIGH/LOW transmitter power switch. A BNC antenna socket and separate flexible antenna make the TX800 a truly versatile "go anywhere" transceiver.

CHANNEL INFORMATION

CHANNEL/FREQUENCY CHART

CH.	FREQUENCY	SUGGESTED USAGE	CH.	FREQUENCY	SUGGESTED USAGE
1	26.965 MHz	General AM	21	27.215 MHz	General SSB
2	26.975 MHz	" "	22	27.225 MHz	" "
3	26.985 MHz	" "	23	27.255 MHz	" "
4	27.005 MHz	" "	24	27.235 MHz	" "
5	27.015 MHz	" "	25	27.245 MHz	" "
6	27.025 MHz	" "	26	27.265 MHz	" "
7	27.035 MHz	" "	27	27.275 MHz	" "
8	27.055 MHz	" (3)	28	27.285 MHz	" "
9	27.065 MHz	Emergency Channel (1)	29	27.295 MHz	" "
10	27.075 MHz	General AM	30	27.305 MHz	" "
11	27.085 MHz	Call Channel AM (1)	31	27.315 MHz	" "
12	27.105 MHz	General AM	32	27.325 MHz	" "
13	27.115 MHz	" "	33	27.335 MHz	" "
14	27.125 MHz	" "	34	27.345 MHz	" "
15	27.135 MHz	" "	35	27.355 MHz	" (2)
16	27.155 MHz	Call Channel SSB (1)	36	27.365 MHz	" "
17	27.165 MHz	General SSB	37	27.375 MHz	" "
18	27.175 MHz	" "	38	27.385 MHz	" "
19	27.185 MHz	" "	39	27.395 MHz	" "
20	27.205 MHz	" "	40	27.405 MHz	" "

(1) Legally Designated. (2) Suggested 2nd SSB Call Channel. (3) Suggested Road Channel.

SPECIFICATIONS

GENERAL

Frequency Range	:	26.965MHz - 27.405MHz
No. of channels	:	40
Mode	:	AM (A3E)
Frequency control	:	Phase locked loop synthesiser
Frequency stability	:	$\pm 500\text{Hz}$
Operating Temperature	:	0 C to +55 C
Antenna impedance	:	50 Ohm
Operating voltage	:	12V DC (negative ground)
Weight (with batteries)	:	600 grams approx.
Size	:	185mm(H) X 70mm(W) x 48mm(D)

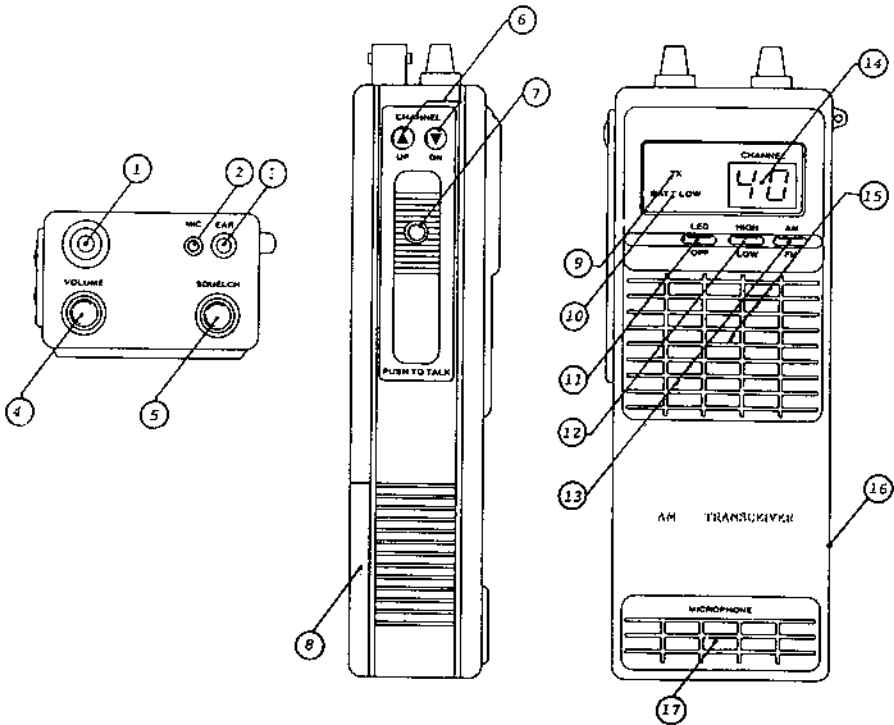
RECEIVER

System	:	Dual conversion super Heterodyne
IF Frequencies	:	1st - 10.695 MHz
	:	2nd - 455KHz
Sensitivity	:	0.5 microvolts for 10dB S + S/N
Adjacent channel rejection	:	-65dB
Image rejection (1st IF/2nd IF)	:	-65dB
Signal to noise @ 1mV input	:	40dB
AGC figure of merit @ 50mV input	:	80dB
Audio output @ 1mV input	:	125mW into 8 Ohms (10% THD)
Current-standby, display OFF	:	60mA
-standby, display ON	:	70mA

TRANSMITTER

RF power output	:	3.5 Watts/800mW Watts @ 12V DC
Modulation level	:	$\pm 95\%$
Spurious & Harmonic suppression	:	-75dBc
Current (full modulation)	:	1.6 Amps

OPERATING CONTROLS



- | | | | |
|----|---------------------------|------|---------------------------------|
| 1. | BNC antenna socket | 10. | Battery Low indicator |
| 2. | External mic. socket | 11. | Channel display LED OFF switch |
| 3. | External earphone socket | 12. | RF output power HIGH/LOW switch |
| 4. | Volume ON/OFF control | 13. | TONE selector switch |
| 5. | Squelch control | 14. | Channel display |
| 6. | Channel UP/DOWN buttons | 15. | Speaker |
| 7. | Push to talk (PTT) switch | 16. | DC charger socket |
| 8. | Battery cover | 17., | Internal microphone |
| 9. | TX indicator | | |

OPERATING INSTRUCTIONS

Install "AA" sized penlight batteries as described under BATTERIES later in this manual. You should install 8 X Alkaline or 10 X NICAD batteries to provide a total of 12 Volts DC. NICAD batteries will require charging before use.

Antenna

Connect the portable antenna supplied to the BNC socket on top of the TX800. For increased range, a base station or mobile antenna can be connected using coax cable.

**DO NOT TRANSMIT WITHOUT AN ANTENNA CONNECTED
OR DAMAGE TO THE TRANSMITTER WILL RESULT**

RECEIVER

Volume ON/OFF

Turn the TX800 ON by rotating the volume control clockwise past the "click". Adjust the volume control to the desired level.

Squelch

The variable squelch control is used to eliminate background noise when there are no signals present. Adjust the squelch by first rotating it fully counter clockwise until the background noise is heard, then advancing it clockwise until the noise just disappears. At this setting the receiver will remain quiet while there are no signals present, but an incoming signal will open the squelch and be heard. If the squelch is advanced further, stronger signals will be required to overcome it. To receive very weak signals or to disable the squelch, turn the control fully counter clockwise.

Selecting Channels

Select channels by pressing the channel UP/DN buttons on the side of the TX800. Press UP to step up one channel and DN to step down one channel. To select channels quickly, press and hold the UP or DN button for more than one second. Release the button when the desired channel number is displayed.

LED Button

The LED channel display can be switched off to conserve battery power. Press the LED button IN to turn the display OFF. Press the LED button again to release it and activate the display again.

Tone Button

The tone of the receivers audio can be adjusted using the TONE switch. When the TONE switch is OUT, the received audio has a greater high frequency response (more treble). Pressing the TONE button IN reduces the treble content slightly producing a more mellow sound.

TRANSMITTER

To transmit, press the push-to-talk (PTT) switch and speak clearly into the microphone in a normal voice. Avoid shouting into the microphone. Release the PTT switch when you have finished speaking.

HIGH/LOW Power

The transmitter output power can be adjusted using the HIGH/LOW switch. With the switch OUT, maximum transmitter power is available for greatest range. However, when using over short ranges (a few hundred metres), selecting LOW power (switch IN) will conserve battery power and help to reduce the chance of overloading nearby transceivers.

MIC/EAR Sockets

The microphone and earphone sockets allow an external microphone and earphone to be connected if desired. Plugging in these external devices disables the internal microphone or speaker.

Charger Socket

The charger socket accepts an approved NICAD charger for recharging NICAD batteries (when fitted). DO NOT CONNECT CHARGER IF ALKALINE OR DRY CELLS ARE INSTALLED AS DAMAGE WILL RESULT.

BATTERYS

The GME TX800 can be fitted with either "AA" sized Alkaline batteries or rechargeable "AA" sized NICAD batteries. The TX800 is designed to operate from no more than 12 Volts DC. DO NOT INSTALL MORE THAN THE RECOMMENDED NUMBER OF BATTERIES AS THE EXTRA VOLTAGE MAY DAMAGE THE TRANSCEIVER.

Alkaline Batteries

Install EIGHT (8) only Alkaline batteries as shown below. Install the TWO (2) dummy batteries to fill the extra spaces inside the battery compartment. Alkaline batteries are recommended over normal carbon cells because of their longer operating life.

NICAD batteries

Install TEN (10) rechargeable NICAD batteries as shown below. Store the two dummy batteries in a safe place in case they are needed later.

DO NOT mix Alkaline and NICAD batteries together in the battery compartment.

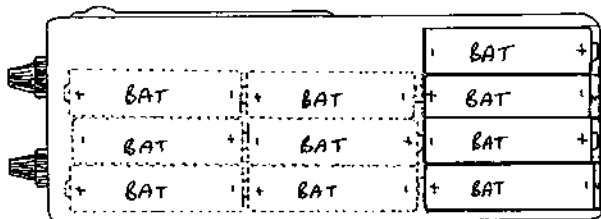
CHARGING

NICAD batteries may be recharged using the recommended AC battery charger (BCE 1445) or DC charging lead (LE286).

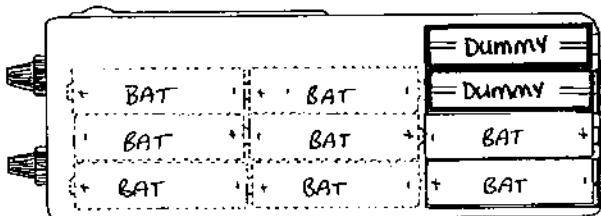
DO NOT CONNECT THE CHARGER IF ALKALINE BATTERIES ARE FITTED. AS SERIOUS DAMAGE WILL RESULT TO THE TRANSCEIVER WHICH WILL VOID THE WARRANTY.

ANTENNA

For best performance, the flexible antenna should be held in a vertical position and kept away from metal structures. The operating range should cover several kilometres depending on terrain, obstacles and climatic conditions. Range can be greatly increased by connecting the TX800 to a mobile or base station antenna.



Install TEN (10) rechargeable NICAD batteries as shown



Install EIGHT (8) only Alkaline batteries with TWO (2) dummy batteries to fill the extra space

WARRANTY

GME ELECTROPHONE limit this Warranty to the original Purchaser of the equipment.

GME ELECTROPHONE warrant this product to be free from defects in material and workmanship for a period of twelve (12) months from the date of purchase from their authorised dealer.

Should the product require servicing during this period, all labour and parts used to effect repairs will be supplied free of charge. GME ELECTROPHONE reserve the right to determine whether damage has been occasioned by accident, misuse or improper installation whereby the Warranty would be void, including:

Transceivers which have been damaged due to:

- (a) Incorrect reverse polarity connection to a battery or power supply;
- (b) Connection to incorrect supply voltage.

(c) Operation without an antenna or by connection to an antenna which has been incorrectly installed, resulting in damage to the transceiver's output transistors.

(d) Effects of water or moisture penetration.

(e) Non-factory modifications.

(f) Use of incorrect replacement fuse.

Procedure to be followed by claimant: In the event of a defect occurring during the twelve (12) month Warranty period, the original purchaser may return the defective unit along with suitable proof of purchase date (i.e. receipt, docket, credit card slip etc) and a full description of the defect to the Dealer from whom the unit was purchased.

All freight charges incurred for transportation by the Dealer or GME ELECTROPHONE are the Purchaser's responsibility.

The Dealer will forward it to the closest authorised GME ELECTROPHONE Service Depot in your particular State.

GME ELECTROPHONE AFTER SALES SERVICE

Your ELECTROPHONE transceiver is especially designed for the environment encountered in portable installations. The use of all solid state circuitry and its light weight, result in high reliability. Should failure occur however, GME ELECTROPHONE maintain a fully equipped service facility and spare parts stock to meet the customer's requirements long after expiry of the warranty period.

Distributed via
National Dealer
Network by.

GME *Electrophone:::*

A DIVISION OF **STANDARD COMMUNICATIONS LTD.**

SYDNEY
6 Frank Street,
GLADESVILLE 2111
(02) 816 4755
FAX: (02) 816 2198
Telex: AA26827 SCGME

MELBOURNE
96 Voltri Street,
MENTONE 3194
(03) 584 8099
FAX: (03) 584 8446

BRISBANE
Unit 1, 16 Dulacca Street
ACACIA RIDGE 4110
(07) 273 4355
FAX: (07) 273 5907

ADELAIDE
Unit 1, 22 Payneham Road,
STEPNEY 5069
(08) 363 1888
FAX: (08) 363 1471

PERTH
Unit 4, 43 Norma Road,
MYAREE 6154
(09) 330 5322
FAX: (09) 317 1787

AUCKLAND N.Z.
Unit F, 35 Neil Park Drive,
EAST TAMAKI
(09) 274 0955
FAX: (09) 274 0959