

T-800

MULTI STANDARD PROGRAMMABLE
27 MHz CB MOBILE TRANSCEIVER

OWNER'S MANUAL



THUNDERPOLE 

Declaration of Conformity

EC Certificate of Conformity
(to EC Directive 2006/95, 2004/108, 99/5)

DECLARATION OF CONFORMITY

With the present declaration, we certify that the following products :

THUNDERPOLE T-800

comply with all the technical regulations applicable to the above mentioned products
in accordance with the EC Directives 2006/95/EC, 2004/108/EC, 99/5/EC.

Type of product : CB Transceiver

Details of applied standards : EN 300 433-1/-2, EN 300 135-1/-2
EN 301 489-1, EN 301 489-13
EN 60950

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Northampton, 2014/08/08

Mr. Alan Crumpton
(General Manager)



NOTICE!

It is recommended to carefully read this owner's manual before using the product. This will also help the user to prevent using the radio in violation of the regulations valid in the country where the product is used, as well as to avoid any possible interference with other services.



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NOTICE !

Before using this transceiver, please check it has been programmed on the correct frequency band and operating mode allowed by the regulations valid in the country where the product is used. If not, please change the frequency band(see page 6).

NOTE: This transceiver is factory pre-programmed on the UK frequency band (UK 40CH FM 4W).

Congratulations!

Congratulations for selecting and purchasing a quality THUNDERPOLE product.

This transceiver includes a number of advanced functions and systems, therefore it is important to carefully read this owner's manual before using the radio. With the correct use of this product in accordance with the operating method described in this manual, the product will offer trouble free use for many years.

THUNDERPOLE is constantly engaged in developing and providing quality products meeting the customers requirements, however any suggestions or comments on this product that might help us to improve quality are warmly welcome.

The THUNDERPOLE T-800 is a CB transceiver using advanced hardware and software design, it includes a special multi-standard programmable circuit, which allows you to program the frequency band and operating mode in compliance with the regulations valid in the various European countries. Therefore this product can be used in any country of the European Community.

The radio is delivered factory pre-programmed on the UK frequency band (UK 40CH FM 4W).

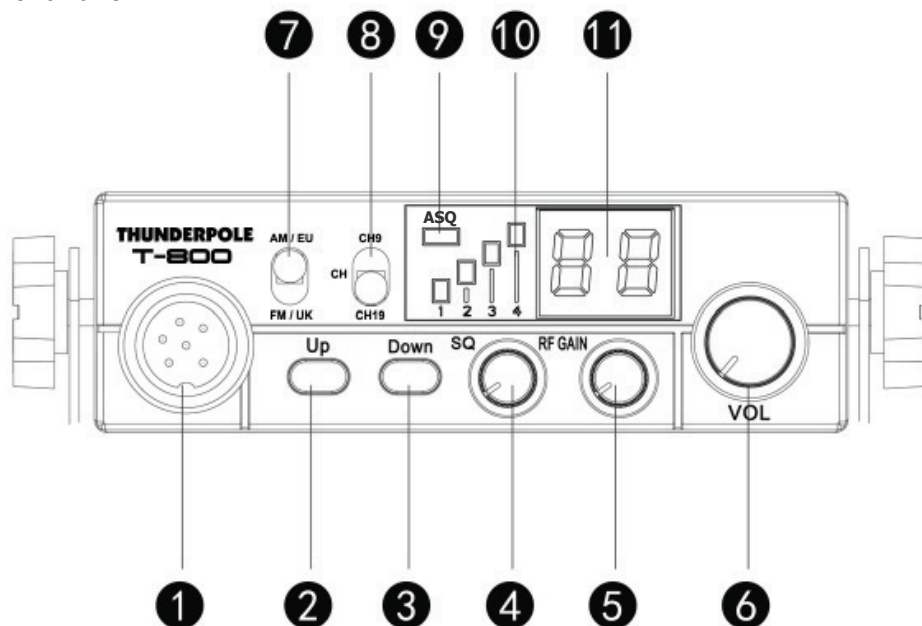
Contents of the box

Please check that all the following items are contained in the box :

- Main unit (transceiver)
- DC power cord with fuse holder and fuse
- Condenser microphone
- Car mounting bracket
- Car mounting bracket accessories (hardware, knobs, etc.)
- Microphone bracket
- Owner's manual

Controls and operation

Front Panel



1. Microphone Connector

Connect the microphone to this connector and turn the connector ring to lock it.

2. Up Button

This button allows you to change the operating channel upwards.

3. Down Button

This button allows you to change the operating channel downwards.

4. SQUELCH Control

The SQUELCH control allows you to silence the receiver by cutting out the background noise when no signals are being received. Turn the knob clockwise until the background noise is cut. Turn the knob counter clockwise (SQUELCH opening) in order to listen to the weakest signals.

5. RF GAIN knob

This transceiver uses a high sensitivity and selectivity receiver circuit. The receiver gain is adjustable with the RF GAIN knob. By rotating the knob anticlockwise, the receiver gain is reduced. It is convenient to reduce the receiver gain in case of very strong signals from local stations. This knob only functions in AM mode.

6. ON/OFF/VOLUME Control

Use this knob to switch radio ON and OFF, as well as to adjust the receiver volume to the desired level. To adjust the receiver volume when no signals are being received on the operating channel, open the SQUELCH and then adjust the receiver volume using the background noise as a reference.

Controls and operation

7. AM / FM Selector (EU / UK Selector)

This switch allows you to select the operating mode AM or FM, in both TX and RX (if the selected frequency band allows it), unless the radio is set to the UK frequency band - then this switch changes the operating band from the UK 40 FM channels to the EU (CE) 40 FM channels.

8. CH9 / CH19 Selector

This 3-position switch allows you to select the emergency channels CH9 and CH19 in the programmed frequency band. If the switch is set to its centre position, the radio will operate on the normal selected channel.

9. TX and ASQ LED

This two-colour indicator is red or green. When radio is in TX mode it is red, when ASQ (see page 4) is activated it is green.

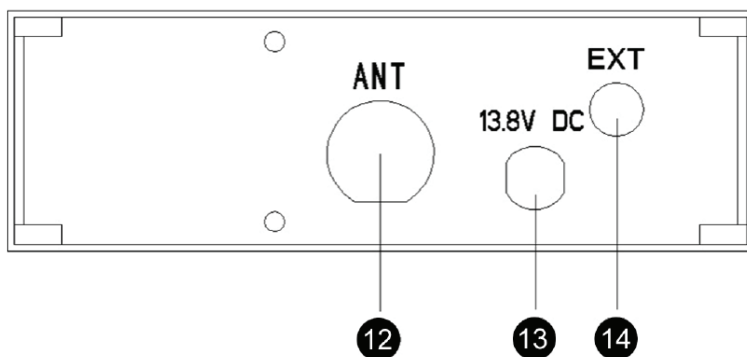
10. RX / TX Signal Meter

4-bar LED display to indicate the strength of the received signal, or the power of the outgoing signal.

11. DISPLAY

The bright digital LED display shows the channel number.

Rear Panel



12. ANTENNA Connector

Antenna connector. Refer to the section INSTALLATION OF THE ANTENNA (Page 5).

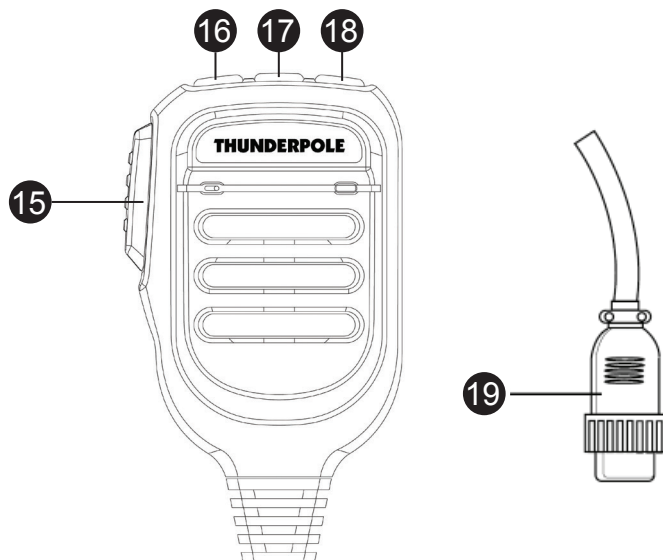
13. 13.8VDC POWER CORD

13.8VDC power cord input.

14. EXT (External Speaker) Jack

This jack is for connecting an external speaker (optional).

Microphone



15. PTT (Push-to-Talk) Button

Transmitter button. Press the PTT button to transmit and release it to return to the receive mode.

16. Up Button

This button allows you to change the operating channel upwards.

17. ASQ Button

The ASQ function allows you to automatically silence the receiver, avoiding SQUELCH manual adjustment.

To enable the ASQ function, press this button once, to disable it press it a second time.

Note: When ASQ is enabled ASQ LED (9) will illuminate green.

18. Down Button

This button allows you to change the operating channel downwards.

19. MICROPHONE Plug

6-pin microphone connector with locking ring. Connect it to the microphone connector (1) on the front panel of the radio.

Installation

Installation

Before installing the main unit in the vehicle, check and select the most convenient location, in order that the radio will be easy to reach and comfortable to operate, without obstructing any of the vehicles controls. Use the supplied bracket and hardware to install the radio. The car mounting bracket can be installed over or below the radio and the radio may be inclined as desired (whether under dashboard or truck cabin roof installation).

Installation of the Main Unit

Before connecting the radio to the vehicles electric system, make sure that radio is switched off, with the OFF/VOLUME (6) knob completely turned counter clockwise at OFF position. The DC power cable (13) of the radio is complete with a fuse holder with fuse located on the red positive (+) wire. Connect the DC power cable to the vehicles electric system, with special attention to correct polarity. Connect the red wire to the positive (+) pole and the black wire to the negative (-) pole of the vehicles electric system. Make sure that the wires and terminals are firmly and stably connected, in order to prevent cables from disconnecting or causing short circuits.

Installation of the Antenna

A specific 27MHz CB antenna must be used. Please make sure to carefully install the antenna mount on the vehicle with a good connection to ground. Before connecting the antenna to the radio, it is necessary to check the correct operation of the antenna with low standing wave ratio (S.W.R.), using an SWR meter. If not, the transmitter circuit of the radio could be damaged. The antenna should be installed on the highest part of the vehicle, free from obstacles and as far away as possible from any source of electric or electromagnetic noise. The RF antenna coaxial cable must not be damaged or pressed on its way between antenna and the radio. The correct operation of the antenna and the low standing wave ratio (S.W.R.) must be checked periodically. Connect the RF antenna coaxial cable to the antenna connector (12), located on the rear side of the radio.

Checking Operation of the Radio

Once the radio has been connected to the vehicles electric system and to the antenna, the correct operation of the system may be checked. Please proceed as follows :

- 1) Check that the power cable is correctly connected.
- 2) Check that the RF antenna coaxial cable is correctly connected.
- 3) Connect the microphone to the connector (1), located on the front side of the radio.
- 4) Rotate the SQUELCH (4) knob counter clockwise.
- 5) Turn the radio on using the ON/OFF/VOL (6) knob and adjust the volume to the desired level.
- 6) Select the desired channel, using the channel selector buttons (2 and 3, or 16 and 18 on mic).
- 7) Rotate the SQUELCH (4) knob clockwise, to cut the background noise.
- 8) Press the PTT (15) key to transmit and release it to receive.

Frequency band selection / table

Frequency Band Selection / Programming

This Thunderpole T-800 CB radio must be programmed and exclusively used on a frequency band allowed in the country where the product is used (see below). When radio is switched ON, the current programmed frequency band code will be displayed for approx. 2 seconds. To program a different frequency band, proceed as follows :

- 1) Turn OFF the radio.
- 2) Whilst pressing the PTT (15) and Down button on the microphone (18) together, turn on the power using the ON/OFF/VOLUME Control (6).
- 3) Use the UP and Down buttons (2 & 3, or 16 & 18) to select the band.
- 4) Turn the radio off and then on again, now the display will show the programmed band, and you will be working on the band you selected.

UK/CE Channel Selection (Frequency Band “U”)

If the UK Frequency band has been selected, all 80 channels available for UK use can be accessed by using the EU/UK (AM/FM) Switch (7). In EU/AM position the radio will operate on the European (CE) 40 Channel band in FM mode, and when in UK/FM position the radio will operate on the UK 40 Channel band in FM mode.

Note: To access AM channels on the CE band follow instructions 1 to 4 above and choose CE band, then switch the AM/FM switch to AM.

Frequency Band Table

8 programmable frequency bands are available, as per the below table :

FREQUENCY BAND ID CODE	COUNTRY	SPECIFICATIONS (Channels, Operating Modes, TX Power)
E1	ITALY/SPAIN	40CH AM / FM 4W
I2	ITALY	36CH AM / FM 4W
-d	GERMANY	80CH FM 4W - 12CH AM 1W
d2	GERMANY	40CH FM 4W - 12CH AM 1W
EU	EUROPE/FRANCE	40CH FM 4W - 40CH AM 1W
CE	CEPT	40CH AM / FM 4W
-U	UK	40CH FM 4W UK FREQUENCIES 40CH FM 4W EU (CE) FREQUENCIES
PL	POLAND	40CH AM / FM 4W POLISH FREQUENCIES

User information

Attention ! This radio has been pre-programmed on the UK frequency band (UK 40CH FM 4W) which is for use in the UK only. For use in other countries, please refer to the frequency band table on page 6.

User Information

in accordance with art. 13 of the Legislative Decree of 25th July 2005, no. 15 "Implementation of Directives 2002/95/EC, 2002/96/EC and 2003/108/EC, relative to reduction of the use of hazardous substances in electrical and electronic equipment, in addition to waste disposal".



The crossed bin symbol shown on the equipment indicates that at the end of its working life the product must be collected separately from other waste.

The user must therefore take the above equipment to the appropriate differentiated collection centres for electronic and electro technical waste, or return it to the dealer when purchasing a new appliance of equivalent type, in a ratio of one to one.

Appropriate differentiated waste collection for subsequent recycling, treatment and environment-friendly disposal of the discarded equipment helps to prevent possible negative environmental and health effects and encourages recycling of the component materials of the equipment.

Illegal disposal of the product by the user will be punished by application of the administrative fines provided for by the legislative decree no. 22/1997 (article 50 and following of the legislative decree no. 22/1997).

IMPORTANT !

Never attempt to open the cabinet of the transceiver. No user serviceable parts inside. Internal modifications or tampering may cause damage to the product, modifying its technical specifications will void all warranty rights.

If service or repair is required, please go to an authorised service centre or specialised technician.

Specifications

General

Channels	40 AM / FM (refer to the frequency bands table at page 6)
Frequency range	27 MHz Citizen Band
Frequency control	P.L.L.
Operatine temperature	-10°/+55°C
DC input voltage	13.8Vdc \pm 15%
Size	115 (W) x 38 (H) x 150 (D) mm
Weight	800 gr.

Receiver

System	Double conversion, CPU controlled super-heterodine
IF	1° 10.700 MHz / 2° 450 KHz
Sensitivity	-120dBm for 12dB SINAD (FM) -107dBm for 12dB SINAD (AM)
Audio output	@10% THD 2.5W at 8 ohm
Audio distorsion	<8% at 1 KHz
Image rejection	65dB
Adjacent channel	85dB
Signal/noise ratio	45dB
Current drain	220mA (stand-by)

Transmitter

System	CPU controlled P.L.L. synthesizer
Maximum RF power	4W at 13.8Vdc
Modulation	85% to 90% (AM) 2KHz \pm 0.2 KHz (FM)
Impedance	50 ohm unbalanced
Current drain	2000mA (at no modulation)

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