



TX2720

DIN SIZE 4 WATT CB RADIO



INSTRUCTION MANUAL

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INTRODUCTION

The GME TX2720 is a 26/27 MHz AM Citizens Band radio. The TX2720 has a number of enhanced features including fully user programmable Channel Scanning, Priority Channel and backlit Liquid Crystal Display with dimming function.

SAFETY INFORMATION

The TX2720 is a radio transmitting device.

- When transmitting, keep the antenna more than 25 mm from any part of the head or body.
- Do not transmit near electrical blasting equipment or in explosive atmospheres.
- Do not allow children to operate a radio transmitter unsupervised.

FEATURES

- 4 Watt Transmission Power
- Advanced Noise Limiting (NL) Circuitry
- Optimised Automatic Gain Control
- Channel Scanning with Memory
- Priority Channel with Dual Watch

ACCESSORIES SUPPLIED

- | | |
|-----------------------|-------------------|
| • TX2720 Radio unit | • Microphone Clip |
| • DIN Mounting Kit | • DC Lead |
| • Microphone (MC553B) | • Screw Pack |

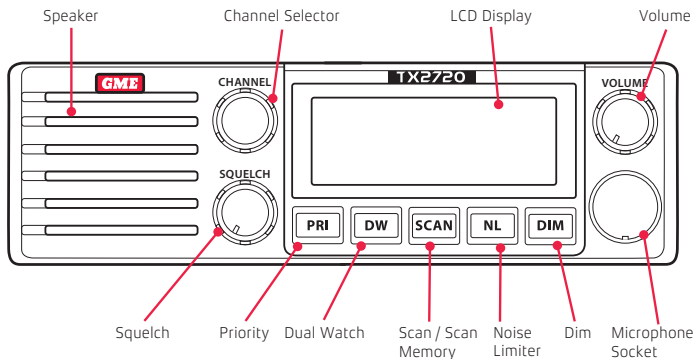
If any items are missing or damaged, please contact your retailer or place of purchase.

OPTIONAL ACCESSORIES

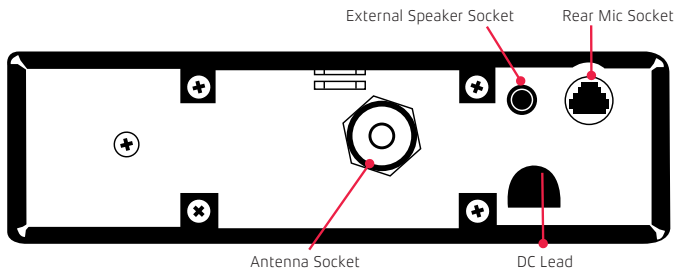
- MB42 Mounting Bracket
- CA30 Gimbal Knobs
- LEM6P 4 m Microphone Extension Lead

CONTROLS

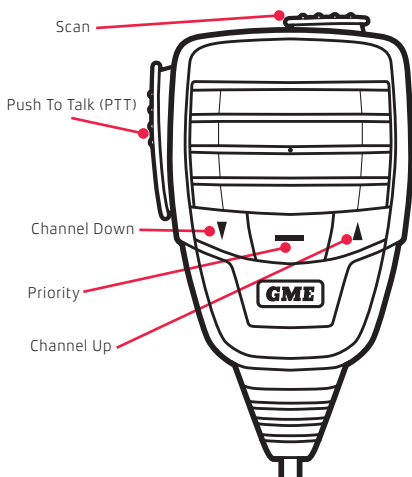
FRONT PANEL



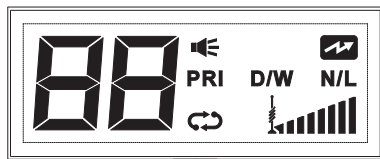
REAR PANEL



MICROPHONE



DISPLAY



DISPLAY	FUNCTION	DISPLAY	FUNCTION
88	Channel Number	D/W	Dual Watch
	Transmit Indicator	PRI	Priority Channel
	Busy Indicator		Scan Memory
	RX Signal Strength	N/L	Noise Limiter
	Scan		

OPERATION IN AUSTRALIA

In Australia, the TX2720 is factory set to operate on the Australian 27 MHz CB band.

OPERATION IN NEW ZEALAND

In New Zealand the TX2720 is factory set to operate on the New Zealand 26 MHz CB band. However, New Zealand users can switch between the New Zealand 26 MHz and Australian 27 MHz CB bands, providing New Zealand users with access to a full 80 channels of spectrum normally only available to owners of separate 26 MHz and 27 MHz radios.

Switching bands

When the TX2720 is switched on, the display will briefly flash 26 or 27 to confirm the currently selected band. It will then display the channel number.

To switch between the 26 MHz and 27 MHz bands;

1. Switch the radio off.
2. Hold the DW key while switching the radio on.

'26' or '27' will flash briefly to confirm the selected band.

Scan Memory

The TX2720 shares a single scan memory with both 26 and 27 MHz bands. This means that channel numbers stored in the scan memory of one band will also be stored in the other band; however the actual channel frequencies will match the selected band.

e.g. Frequencies scanned when channels 1, 10 and 20 stored in the scan memory;

FREQUENCY SCANNED		
Channel	26 MHz	27 MHz
1	26.330 MHz	26.965 MHz
2	26.440 MHz	27.075 MHz
3	26.570 MHz	27.205 MHz

OPERATION IN OTHER COUNTRIES

For information specific to operation in countries other than Australian and New Zealand please refer to the appropriate amendment or contact GME at: export@gme.net.au

VOLUME ON/OFF

Rotate the **Volume** control clockwise past the 'click' to turn the TX2720 ON. Continue to advance the control clockwise to increase the volume. Rotate the control counter-clockwise to turn the radio off.

SQUELCH CONTROL

The **Squelch** control is used to eliminate the background noise when there are no signals present. To adjust the Squelch, first rotate it fully counter-clockwise until the background noise is heard, then slowly rotate it clockwise until the noise just disappears. If there are signals on the channel, you should wait until the channel is clear before adjusting the Squelch (or select a quiet channel).

Once adjusted, the receiver will remain quiet as long as there are no signals present, but an incoming signal will override the Squelch and be heard in the speaker. As the control is advanced further clockwise the Squelch threshold is progressively increased and stronger incoming signals are needed to override it. To receive very weak signals or to disable the Squelch, simply turn the control fully counter-clockwise.

CHANNEL SELECTION

Select the required channel using the rotary the channel switch or by briefly pressing the ▲ or ▼ keys on the microphone. The selected channel is displayed on the LCD.

DISPLAY BRIGHTNESS

The LCD has two brightness levels to provide suitable lighting for day or night use. The default setting is bright. The desired brightness level can be selected via the 'Dim' switch located on the front panel.

TRANSMITTING

To transmit, press the **PTT** button on the microphone. Hold the microphone 2-6 cm from your mouth and slightly to one side so your voice does not project directly into the microphone. Speak at a normal voice level. Your TX2720 has a built-in speech processor which automatically controls the level of your transmitted voice. It is not necessary to raise your voice or shout into the microphone.

NOISE LIMITER


The **NL** key activates an extremely effective noise limiter circuit which helps to eliminate most electrical impulse interference caused by engine ignition systems etc. This allows clearer reception of weak signals even under noisy electrical conditions.

When the **NL** key is selected, 'N/L' is displayed on the LCD.

SCANNING


The TX2720 is fitted with a Scan function that allows a group of user selected channels to be scanned for activity. Your TX2720 has a Scan memory which remembers which channels you would like to Scan. By default your TX2720 is supplied with all channels in the Scan memory.

To See Which Channels are Presently in the Scan Memory


Select each channel one by one using the rotary channel switch or by pressing the ▲ or ▼ keys on the microphone and check to see if  is displayed to the lower right of the channel number.

If  is displayed, the channel is in the Scan memory, otherwise the channel is not in the Scan memory.

To Add or Remove a Channel from the Scan Memory

Select the required channel, then press and hold the **SCAN** key until a beep is heard. If  appears to the lower right of the channel number, the channel has been added to the Scan memory, otherwise it has been removed.

To Scan

Adjust the **Squelch** control so the radio is quiet, then briefly press the **SCAN** key. A high beep will be heard,  will flash on the display and the channel numbers will change rapidly as the radio begins scanning. If a signal is found, the radio will pause on that channel and will remain there as long as the channel remains busy. Once the channel has been clear for 5 seconds, scanning will resume.

Note: *You must have at least two channels programmed into the Scan memory otherwise the radio won't scan.*

To Change the Scan Direction

Press the ▲ or ▼ key. The radio will scan in the direction of the selected channel key.

To Skip Over a Busy Channel and Resume Scanning briefly press the ▲ or ▼ key. Scanning will resume.

To Transmit on a Busy Channel

Wait for a break in the conversation, then press the **PTT** switch. The radio will exit the Scan mode and stay on the channel allowing you to communicate with others on that channel.

To resume scanning briefly press the **SCAN** key again.

Note: *If the PTT is pressed while the radio is scanning, it will be ignored and a low beep will be heard when the PTT is released.*

To Exit the Scan Mode Manually

Briefly press the **SCAN** key.  will stop flashing on the display.

Note: *Excessive noise on a channel can cause the scanning to pause on that channel even if there is no signal there. If this only happens on one channel, you may need to remove that channel from the scan memory. If it happens on all channels, you should try increasing the squelch setting.*

PRIORITY CHANNEL

The Priority Channel function allows a factory preset channel to be instantly recalled at the press of a key.

Radios operating on the 27 MHz band will select channel 8 when the **Priority** key is pressed. For radios operating on the 26 MHz band the Priority key will select channel 15.

To use the priority channel

Simply press the **Priority** key at any time. The radio will jump straight to the designated priority channel. If SCAN or DW is selected, it will be cancelled.

To return to the previously selected channel

Press the **Priority** key again.

DUAL WATCH

Dual Watch allows your TX2720 to monitor both the Priority channel and another selected channel by quickly switching between them. Any signals received on the Priority channel take precedence over signals on the selected channel.

To use the Dual Watch feature, adjust the Squelch control so the radio is quiet, select your preferred channel using the ▲ or ▼ keys or rotary channel switch then press the **DW** key. 'D/W' will appear on the display and the channel display will alternate between your selected channel and the Priority channel.

If a signal is received on your selected channel, the radio will pause on that channel but will continue to switch to the Priority channel every 2 seconds and a brief interruption to the signal will be noticed. Once the signal has gone, normal Dual Watch switching will resume.

If a signal appears on the Priority channel at any time, the radio will stop switching and will remain on the Priority channel for as long as the signal is present. Once the signal has gone, normal Dual Watch switching will resume.

Note: *If you press the **PTT** switch while Dual Watch is selected, your TX2720 will transmit on the selected channel. If you wish to talk on the Priority channel, press the **Priority** key to cancel the Dual Watch and switch straight to the Priority channel.*

27 MHZ CB CHANNEL ASSIGNMENTS

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

(1) Legally Designated

26 MHZ CB CHANNEL ASSIGNMENTS

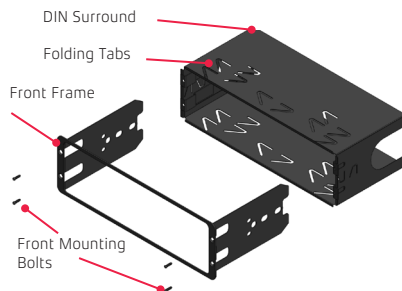
Channel	Frequency	Suggested Usage
1	26.330 MHz	AM/SSB
2	26.340 MHz	AM/SSB
3	26.350 MHz	AM/SSB
4	26.370 MHz	AM/SSB
5	26.380 MHz	AM/SSB
6	26.390 MHz	AM/SSB
7	26.400 MHz	AM/SSB
8	26.420 MHz	AM
9	26.430 MHz	AM
10	26.440 MHz	AM
11	26.450 MHz	AM Trucking
12	26.470 MHz	AM
13	26.480 MHz	AM
14	26.490 MHz	AM
15	26.500 MHz	AM Emergency / Call Channel
16	26.520 MHz	AM
17	26.530 MHz	AM
18	26.540 MHz	AM
19	26.550 MHz	AM
20	26.570 MHz	AM
21	26.580 MHz	AM
22	26.590 MHz	AM
23	26.620 MHz	AM
24	26.600 MHz	AM
25	26.610 MHz	AM/SSB
26	26.630 MHz	AM/SSB
27	26.640 MHz	AM/SSB
28	26.650 MHz	AM/SSB
29	26.660 MHz	AM/SSB
30	26.670 MHz	AM/SSB
31	26.680 MHz	AM/SSB
32	26.690 MHz	AM/SSB
33	26.700 MHz	AM/SSB
34	26.710 MHz	AM/SSB
35	26.720 MHz	SSB (LSB) Call Channel
36	26.730 MHz	AM/SSB
37	26.740 MHz	AM/SSB
38	26.750 MHz	AM/SSB
39	26.760 MHz	AM/SSB
40	26.770 MHz	AM/SSB

INSTALLATION

The TX2720 is supplied with a DIN mounting bracket for mounting into a standard DIN sized cavity in the vehicle's console or dashboard. Before installing the radio, ensure the DC cable and antenna have been installed correctly (as described further below) and the connectors are accessible through the DIN cavity.

INSTALLING THE DIN MOUNT

To install the DIN mount you will need access to the rear of the vehicle's console.



1. Remove the four small front mounting bolts from the front edges of the DIN mount and separate the front frame from the DIN surround.
2. Slide the DIN surround into the DIN slot in the vehicle's console and secure it in the desired position by bending the folding tabs.
3. Slide the TX2720 radio into the front frame so that the threaded holes in the chassis line up with the holes in the front frame.
4. Secure the radio using the four 8 mm bolts and washers provided.



5. Connect the DC connector and PL259 antenna (and rear microphone extension lead if used) to the sockets on the radio's rear panel.
6. Slide the front frame back into the DIN surround and secure it using the four small front mounting bolts.

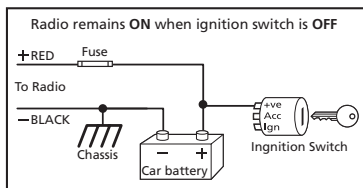
You can now refit the console to the vehicle.

DC POWER CONNECTIONS

The TX2720 is designed for 13.8 V DC negative earth installations only (i.e. where the negative side of the battery is connected to the frame or chassis of the vehicle). There are two recommended methods of installation. Please refer to the following diagrams.

Radio remains On when the Ignition switch is Off

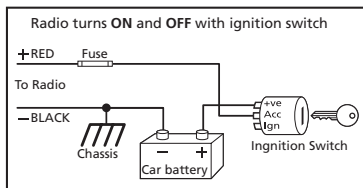
Connect the radio's negative (Black) lead to the vehicle's chassis or if preferred directly to the battery's negative terminal. Connect the radio's positive (Red) lead, via the 2 amp fuse, to the battery's positive terminal or to a point in the fuse box that has +13.8 volts continuously available.



The radio can now be switched On or Off at any time using the switch on the volume control.

Radio Turns On and Off with the Ignition switch

Connect the radio's negative (Black) lead to the vehicle's chassis or if preferred directly to the battery's negative terminal. Connect the radio's positive (Red) lead, via the 2 amp fuse, to the accessory point in the fuse box. This point should supply +13.8 volts ONLY when the ignition is switched ON or in the ACCESSORY position. The radio should now switch ON and OFF automatically with the vehicle's ignition switch.



MICROPHONE

The TX2720 is fitted with two microphone sockets – one on the front panel and one on the rear. The 6 pin microphone connector can be plugged into either socket. In fact, if the situation requires it, two microphones can be connected simultaneously.

Front

The front microphone socket is fitted with a hard protective cover. The cover is a press fit. To remove the cover insert a paper clip or similar into the small slot in the edge of the cover and lift the cover away from the panel. Retain the cover in case you require it later on. Position the microphone plug so the plastic tab faces upwards then press the plug into the socket until it 'clicks'. Gently press the rubber strain relief grommet into the hole surrounding the socket so that the slot around the grommet fits neatly inside the lip inside the hole.

Rear

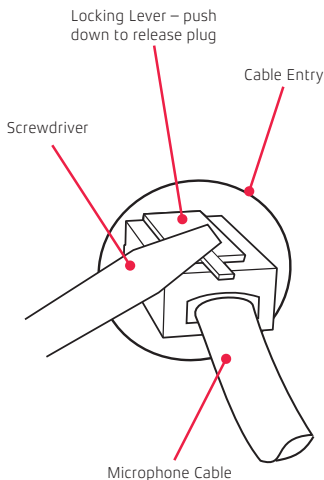
If using the rear microphone connection you should obtain the optional LEM6P rear microphone extension lead. Mount the extension lead's socket on a convenient location and feed the plug through the dashboard to the DIN cavity.

Remove the rubber grommet from the rear microphone socket and retain in case you require it later on. Position the microphone plug so the plastic tab faces upwards then press the plug into the socket until it 'clicks'.

Removing the Microphone

For the front panel connection, first squeeze the grommet to disengage it from the slot then slide it along the microphone cord.

Now squeeze the microphone plug's plastic tab towards the plug to unlock it while gently pulling on the microphone cable. The plug should release from the socket. If the plug does not come out easily, the tab has not been released fully – squeeze the tab again.



ANTENNA INSTALLATION

It is essential to install a good quality, high efficiency, 26 or 27 MHz antenna. A poor quality antenna or one not designed for the specific frequency band will give very poor performance. GME have a large range of suitable 26 and 27 MHz antennas to suit most installations and applications. We recommend you contact your local GME dealer for advice.

After mounting the antenna, feed the antenna cable to the DIN cavity in the vehicles console or dashboard before mounting the radio. Connect the antenna cable to the rear antenna socket using the PL259 connector.

NOISE SUPPRESSION

26/27 MHz CB radio can be prone to electrical and ignition interference. The reason is that electrical noise is a form of AM transmission similar to that used by your radio and your radio's receiver is very sensitive. In most cases, ignition noise can be greatly reduced or eliminated by selecting the Noise Limiter (NL) key on the radio.

SPECIFICATIONS

Environmental

Menu	Options
Temperature Range:	-0°C to + 55°C

Electrical

Menu	Options
Compliant Specification:	AS/NZS4355:2006
Frequency Range:	26-30 MHz
Channel Set:	Australia: 27 MHz CB (26.995 – 27.405 MHz) New Zealand: 26 MHz CB (26.330 – 26.770 MHz) 27 MHz CB (26.995 – 27.405 MHz)
Modulation:	AM (A3E)
Supply Voltage:	<ul style="list-style-type: none"> • 12 V DC nominal • 10.8 – 15.6 V DC range.
Frequency Error:	±1.4 kHz
Dual Watch:	Monitor time – 250ms
Scan Rate:	5 channels/second

Transmitter

Menu	Options
Modulation Frequency Response:	300 Hz to 3 kHz, +1–3 dB
Max Modulation Depth:	100%
Carrier Output Power:	4 watts max
Spurious Emissions:	< -26 dBm

Mechanical

Menu	Options
Dimensions:	51 (H) x 94 (D) x 170 (W)
Weight:	450 grams

Receiver

Menu	Options
Demodulated Frequency Response:	300 Hz to 3 kHz, +1–3 dB
Receive Sensitivity for 12 dB SINAD @ 30% Modulation:	-110 dBm
Max Squelch:	< -65 dBm
Adjacent Channel Sensitivity:	≥ 55 dB
Spurious Response Immunity:	≥ 55 dB
Conducted Spurious Radiation:	≤ -57 dBm
Audio Output Power 8 Ohms:	2.5 watts

The TX2720 will operate over the 26-30 MHz frequency range. For information specific to frequencies outside of the Australian/NZ CB bands, please refer to the appropriate amendment, or contact GME at: export@gme.net.au

GME WARRANTY AGAINST DEFECTS

This warranty against defects is given by GME Pty Ltd ACN 000 346 814 (We, us, our or GME). Our contact details are set out in clause 2.7.

1. Consumer guarantees

- 1.1 Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.
- 1.2 To the extent we are able, we exclude all other conditions, warranties and obligations which would otherwise be implied.

2. Warranty against defects

- 2.1 This warranty is in addition to and does not limit, exclude or restrict your rights under the Competition and Consumer Act 2010 (Australia) or any other mandatory protection laws that may apply.
- 2.2 We warrant our goods to be free from defects in materials and workmanship for the warranty period (see warranty table) from the date of original sale (or another period we agree to in writing). Subject to our obligations under clause 1.2, we will at our option, either repair or replace goods which we are satisfied are defective. We warrant any replacement parts for the remainder of the period of warranty for the goods into which they are incorporated.
- 2.3 To the extent permitted by law, our sole liability for breach of a condition, warranty or other obligation implied by law is limited
 - (a) in the case of goods we supply, to any one of the following as we decide –
 - (i) the replacement of the goods or the supply of equivalent goods;
 - (ii) the repair of the goods;
 - (iii) the cost of repairing the goods or of acquiring equivalent goods;
 - (b) in the case of services we supply, to any one of the following as we decide –
 - (i) the supplying of the services again;
 - (ii) the cost of having the services supplied again.
- 2.4 For repairs outside the warranty period, we warrant our repairs to be free from defects in materials and workmanship for three months from the date of the original repair. We agree to re-repair or replace (at our option) any materials or workmanship which we are satisfied are defective.

- 2.5 We warrant that we will perform services with reasonable care and skill and agree to investigate any complaint regarding our services made in good faith. If we are satisfied that the complaint is justified, and as our sole liability to you under this warranty (to the extent permitted at law), we agree to supply those services again at no extra charge to you.
- 2.6 To make a warranty claim you must before the end of the applicable warranty period (see warranty table), at your own cost, return the goods you allege are defective, provide written details of the defect, and give us an original or copy of the sales invoice or some other evidence showing details of the transaction.
- 2.7 Send your claim to:
GME Pty Ltd.
PO Box 96 Winston Hills,
NSW 2153, Australia.
Tel: (02) 8867 6000 Fax: (02) 8867 6199
Email: servadmin@gme.net.au
- 2.8 If we determine that your goods are defective, we will pay for the cost of returning the repaired or replaced goods to you, and reimburse you for your reasonable expenses of sending your warranty claim to us.

3. What this warranty does not cover

- 3.1 This warranty will not apply in relation to:
- (a) goods modified or altered in any way;
 - (b) defects and damage caused by use with non GME products;
 - (c) repairs performed other than by our authorised representative;
 - (d) defects or damage resulting from misuse, accident, impact or neglect;
 - (e) goods improperly installed or used in a manner contrary to the relevant instruction manual; or
 - (f) goods where the serial number has been removed or made illegal.

4. Warranty period

- 4.1 We provide the following warranty on GME and Kingray products. No repair or replacement during the warranty period will renew or extend the warranty period past the period from original date of purchase.

PRODUCT TYPE	WARRANTY PERIOD
26/27 MHz CB Mobile Radios	1 year



gme.net.au
GME Pty Ltd

17 Gibbon Road, Winston Hills NSW 2153, Australia

Part Number: 310576 **Drawing Number:** 46557-6