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PNI TTI-PACK69

PNI TTi TCB-900 EVO CB Radio Station and PNI ML29 CB Antenna User Manual

Model: TTI-PACK69

Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your PNI TTi TCB-900 EVO CB Radio Station and PNI ML29 CB Antenna kit. Please read this manual thoroughly before using the product to ensure proper function and safety.



Image: The PNI TTi TCB-900 EVO CB Radio Station and PNI ML29 CB Antenna kit, showing the radio unit with microphone and the magnetic base antenna with its cable.

Package Contents

Verify that all items listed below are present in your package:

- PNI TTi TCB-900 EVO CB Radio Station
- Microphone
- Support bracket and screws for radio station
- Microphone support bracket and screws
- Power cord
- Cigarette lighter plug
- 1DIN mounting case
- PNI ML29 CB Antenna
- RG58 coaxial cable (4 meters)
- PL259 connector plug
- Magnetic base (70 mm diameter)

- User manual (this document)





Image: All components included in the PNI TTi TCB-900 EVO CB Radio Station and PNI ML29 CB Antenna kit, laid out on a white background. This includes the radio unit, microphone, mounting hardware, power cables, antenna, coaxial cable, and magnetic base.

Setup and Installation

1. CB Radio Station Installation

1. **Mounting the Radio:** The TCB-900 EVO can be installed using the provided support bracket or within a 1DIN slot.
    - For bracket mounting: Secure the bracket to a stable surface using the screws. Attach the radio to the bracket.
    - For 1DIN mounting: Insert the radio into the 1DIN mounting case and secure it in your vehicle's dashboard.



Image: Front view of the TTi TCB-900 EVO CB Radio Station, showing the display, control knobs for Channel, Squelch, and Volume, and buttons for various functions like LOCK, MIC, SCAN, VOX, and AM/FM. The microphone port is visible on the right.

2. **Power Connection:** Connect the power cord to the radio's power input. The radio supports 12V and 24V power supplies. Use the provided cigarette lighter plug for easy connection in a vehicle, or wire directly to a suitable power source following vehicle electrical guidelines. Ensure correct polarity.
3. **Microphone Connection:** Plug the 6-pin microphone connector into the designated port on the front panel of the radio. Secure the microphone using its support bracket.
4. **External Speaker (Optional):** An additional speaker can be connected to the dedicated port on the rear panel for enhanced audio output.
5. **Bluetooth Dongle (Optional):** The radio features a connection port for a Bluetooth dongle, allowing for wireless connectivity options.

2. CB Antenna Installation

1. **Antenna Placement:** The PNI ML29 antenna comes with a 70 mm magnetic base. Place the magnetic base on a

flat, metallic surface of your vehicle, preferably in the center of the roof, for optimal performance. Ensure the surface is clean and dry to prevent damage to the vehicle's paint and ensure a strong magnetic hold.



Image: The PNI ML29 CB Antenna with its magnetic base securely attached to the roof of a vehicle, with a clear sky and other vehicles in the background, illustrating typical installation.

2. **Coaxial Cable Connection:** Route the 4-meter RG58 coaxial cable from the antenna to the radio. Connect the PL259 plug of the coaxial cable to the antenna input on the rear of the CB radio. Ensure the cable is routed safely, avoiding sharp edges or areas where it could be pinched or damaged.
3. **SWR Tuning:** After installation, it is crucial to check and tune the Standing Wave Ratio (SWR) of the antenna system using an SWR meter. An SWR reading below 2:1 (ideally 1.5:1 or lower) across the operating band is recommended for optimal performance and to prevent damage to the radio. Refer to the SWR meter's instructions for tuning procedures.



Image: The PNI ML29 CB Antenna, showing its spike, spring, magnetic base, and the attached RG58 coaxial cable with a PL259 connector. The cable is coiled neatly beside the antenna.

Operating Instructions

Basic Operation

- **Power On/Off and Volume:** Rotate the **VOLUME** knob clockwise to turn the radio on and adjust the listening volume. Rotate counter-clockwise to turn off.
- **Channel Selection:** Use the **CHANNEL** knob to select the desired operating channel (1-40).
- **AM/FM Mode:** Press the **AM/FM** button to switch between Amplitude Modulation (AM) and Frequency Modulation (FM) modes. The selected mode will be displayed on the screen.
- **Push To Talk (PTT):** Press and hold the PTT button on the microphone to transmit. Release to receive.

Advanced Features

- **Squelch (SQ) and Dynamic Squelch System (DSS):**
  - **Manual Squelch:** Rotate the **SQUELCH** knob to adjust the squelch level. This eliminates background noise when no signal is present. Adjust it to the point where background noise disappears but weak signals can still be heard.
  - **Automatic Squelch (DSS):** The TCB-900 EVO features a Dynamic Squelch System (DSS). When activated, DSS automatically adjusts the squelch level for optimal noise filtering and reception.
- **Dual Watch (DW):** Press the **DW** button to activate Dual Watch. This function allows the radio to monitor two channels simultaneously: the current operating channel and a second selected channel. The radio will switch to the second channel if a signal is detected.
- **Channel Scan:** Press the **SCAN** button to initiate channel scanning. The radio will automatically scan through all available channels and stop on any active channel. Press SCAN again to stop.
- **VOX Function:** The **VOX** function enables hands-free communication. When activated, the radio transmits automatically when it detects your voice through the microphone.
  - **VOX Sensitivity Adjustment:** The VOX function includes sensitivity adjustment. This allows you to set how loud your voice needs to be to trigger transmission, useful for varying distances from the microphone.
- **Microphone Gain (MIC GAIN):** Adjust the microphone gain to optimize your transmission audio level. This ensures clear communication without distortion.
- **Emergency Channels (9/19):** Press the **9/19** button to quickly access emergency channels (Channel 9 for emergency, Channel 19 for highway information).
- **Key Lock (LOCK):** Press the **LOCK** button to prevent accidental changes to settings or channels.
- **Last Channel Recall (LCR):** The radio stores the last selected channel, allowing for quick recall.
- **Multicolor Screen and Key Lighting:** The radio features a multicolor screen and illuminated keys for improved visibility in various lighting conditions.
- **Key Sound:** The radio provides audible feedback (beep) when buttons are pressed. This can typically be enabled or disabled via the menu.

Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the radio and antenna. Avoid abrasive cleaners or solvents that could damage the surfaces.
- **Connections:** Periodically check all cable connections (power, microphone, antenna) to ensure they are secure and free from corrosion.
- **Antenna Base:** If using the magnetic base, occasionally clean the vehicle surface beneath the base to prevent dirt and debris from scratching the paint.
- **Storage:** When not in use for extended periods, store the radio and antenna in a cool, dry place.

Troubleshooting

- **No Power:**
  - Check power cable connections.
  - Verify the vehicle's cigarette lighter socket or power source is functional.
  - Inspect the fuse in the power cable.
- **No Reception/Transmission:**
  - Ensure the antenna is properly connected and securely mounted.
  - Check SWR. High SWR can prevent transmission and damage the radio.
  - Verify the squelch level is not set too high, blocking weak signals.
  - Confirm the correct channel and AM/FM mode are selected.
- **Poor Audio Quality:**
  - Adjust the volume and squelch controls.
  - Check microphone connection.
  - Adjust microphone gain.
  - Ensure the antenna is properly tuned (SWR).
- **Buttons Unresponsive:**
  - Check if the Key Lock (LOCK) function is activated.

Specifications

PNI TTi TCB-900 EVO CB Radio Station

Model	TTI-PACK69 (TCB-900 EVO)
Emission Band Type	AM/FM
Channels	40
Frequency Range	26.965 - 27.405 MHz
Microphone Type	6 pins
Speaker Audio Power	2W
Sensitivity (20dB SINAD)	0.7µV for 10dB (S+N)/N in AM / 0.7µV for 20dB SINAD in FM
Emission Power	4 W
Power Supply	12 V / 24 V DC
Absorbed Current	Max. 1.6A

Dimensions (W x H x D)	170 x 90 x 50 mm (6.69 x 3.54 x 1.97 inches)
Weight	764 gr (1.68 lbs)
Operating Temperature	-26°C ~ +80°C
Special Features	DSS (Dynamic Squelch System), Dual Watch, Channel Scan, VOX, Manual Squelch, ASQ, Key Lock, LCR, Emergency Channels, Multicolor Screen, Key Lighting, Bluetooth Dongle Connector

PNI ML29 CB Antenna

Product Code	PNI-ML29
Working Band	CB
Working Frequency	26 - 28 Mhz
Maximum Power Applied	500W
Minimum SWR in Band Center	Less than 2:1
Spike Length	230 mm
Total Length (with magnetic base)	34 cm (340 mm)
Impedance	50 Ohms
Material	Copper, Stainless steel
Connector Type	UHF dad (PL259)
Cable Type	RG58
Cable Length	4 meters
Weight	250 gr
Gain	>3 dBi
Polarization	Vertical
Magnetic Base Diameter	70 mm
Operating Temperature	-26°C ~ +80°C
Talking Range Maximum	7 Kilometer

Warranty and Support

For warranty information and technical support, please refer to the official PNI website or contact your authorized dealer. Keep your purchase receipt as proof of purchase for warranty claims.
For additional resources and product information, you may visit thePNI Store on Amazon.

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