

Connex 3300hp

Connex 3300hp 10 Meter Amateur Radio Instruction Manual

1. INTRODUCTION

This manual provides detailed instructions for the proper installation, operation, and maintenance of your Connex 3300hp 10 Meter Amateur Radio. Please read this manual thoroughly before using the radio to ensure optimal performance and safety. The Connex 3300hp is a versatile mobile radio designed for amateur radio enthusiasts, featuring AM and FM modes, and a range of adjustable controls for enhanced communication.



This image displays the front panel of the Connex 3300hp 10 Meter Amateur Radio, featuring its various controls, display, and connected microphone.

2. SAFETY INFORMATION

- Ensure the radio is connected to a stable 12V DC power source with appropriate fusing.
- Do not operate the radio without a properly tuned antenna connected. Operating without an antenna can damage the radio's final amplifier.
- Avoid exposing the radio to extreme temperatures, moisture, or direct sunlight.
- Keep the radio away from flammable materials.
- Do not attempt to open or modify the radio. Refer all servicing to qualified personnel.

3. PACKAGE CONTENTS

Verify that your package contains the following items:

- Connex 3300hp 10 Meter Amateur Radio Unit
- Microphone

- Power Cord
- Mounting Bracket and Hardware
- Instruction Manual (this document)

4. CONTROLS AND FUNCTIONS

Front Panel Controls

- **Volume Control:** Adjusts the audio output level.
- **Squelch Control:** Eliminates background noise when no signal is present. Adjust until noise disappears.
- **Mic Gain Control:** Adjusts the microphone input sensitivity.
- **RF Gain Control:** Adjusts the receiver's sensitivity to incoming signals.
- **Echo Control:** Activates and adjusts the echo effect on your transmitted audio.
- **Talk-Back Control:** Allows you to monitor your own transmitted audio. Includes an On/Off switch.
- **Hi/Low Power Switch:** Selects between high and low transmission power output.
- **Band Selector (6 positions):** Selects the operating frequency band.
- **NB/ANL/Roger Beep Switch:** This multi-function switch activates the Noise Blanker (NB) and Automatic Noise Limiter (ANL) for noise reduction, and also serves as the On/Off switch for the Roger Beep feature.
- **PA (Public Address) Switch:** Activates the Public Address function, routing microphone audio to an external PA speaker (not included).

5. SETUP

5.1. Mounting the Radio

Choose a secure and accessible location for mounting the radio in your vehicle or operating station. Use the provided mounting bracket and hardware to firmly attach the radio, ensuring adequate ventilation around the unit.

5.2. Power Connection

Connect the red wire of the power cord to the positive (+) terminal of your vehicle's 12V DC battery or a suitable power supply. Connect the black wire to the negative (-) terminal or chassis ground. Ensure all connections are secure and properly fused to prevent electrical damage.

5.3. Antenna Connection

Connect a properly tuned 10-meter amateur radio antenna to the antenna connector on the rear of the radio. An SWR (Standing Wave Ratio) meter should be used to ensure the antenna is correctly tuned for the operating frequency to prevent damage to the radio.

5.4. Microphone Connection

Plug the microphone connector into the designated microphone jack on the front panel of the radio.

5.5. Initial Power On

After all connections are made, turn the radio on using the power switch. Adjust the Volume and Squelch controls as needed. **Important Note:** This radio is designed as a 10-meter amateur radio. For operation on 11-meter CB frequencies, professional modification by a qualified technician may be required. Operation on

frequencies outside of amateur radio bands without proper licensing or modification may be illegal and can result in poor performance or damage to the unit.

6. OPERATING INSTRUCTIONS

6.1. Basic Operation (AM/FM)

1. Turn the radio on and adjust the Volume to a comfortable listening level.
2. Adjust the Squelch control clockwise until background noise disappears.
3. Use the Band Selector to choose your desired operating frequency band.
4. Select AM or FM mode as required for your communication.
5. To transmit, press the PTT (Push-To-Talk) button on the microphone and speak clearly into the microphone. Release the PTT button to receive.

6.2. Using Roger Beep

The Roger Beep feature provides an audible tone at the end of your transmission, signaling to other operators that you have finished speaking. To activate or deactivate the Roger Beep, use the NB/ANL/Roger Beep switch as indicated in the Controls and Functions section.

6.3. Adjusting Audio and RF

Use the Mic Gain control to adjust your microphone's sensitivity for clear transmission. The RF Gain control allows you to fine-tune the receiver's sensitivity, which can be useful in areas with strong or weak signals.

6.4. Channel Selection

The radio features 10 channels within its frequency range. Use the channel selector knob to navigate between available channels.

7. MAINTENANCE

- **Cleaning:** Regularly wipe the radio's exterior with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Connections:** Periodically check all power and antenna connections to ensure they are secure and free from corrosion.
- **Ventilation:** Ensure that the radio's ventilation openings are not obstructed to prevent overheating.
- **Storage:** If storing the radio for an extended period, disconnect it from power and store it in a cool, dry place.

8. TROUBLESHOOTING

- **No Power:** Check power connections, fuses, and the vehicle's battery. Ensure the power switch is in the 'On' position.
- **No Transmission/Reception:** Verify antenna connection and SWR. Check microphone connection. Ensure the correct operating mode (AM/FM) and band are selected. Adjust RF Gain and Squelch.
- **Poor Audio Quality:** Adjust Mic Gain and Volume controls. Check microphone for damage. Ensure antenna is properly tuned.
- **Radio Not Functioning on CB Frequencies:** As noted in the Setup section, this radio is primarily a 10-meter amateur radio. If you intend to use it for 11-meter CB communication, professional modification is

typically required. Without this modification, the radio may not transmit or receive effectively on CB channels.

- **Excessive Noise:** Adjust Squelch. Activate NB/ANL. Check for external interference sources.

If problems persist after following these troubleshooting steps, please contact a qualified radio technician or the manufacturer's support.

9. SPECIFICATIONS

Brand	Connex
Model Number	3300hp
Frequency Range	28-29.7 MHz
Number of Channels	10
Special Feature	Roger Beep
Talking Range Maximum	10 Meters
Item Weight	0.01 Ounces
Package Dimensions	16.1 x 8.94 x 3.03 inches
Water Resistance Level	Waterproof
International Protection Rating	IP67
Compatible Devices	Repeater Mount

10. WARRANTY INFORMATION

10 Meter Radios come with a warranty from their respective manufacturer. Returns are not accepted by HKtronikz, but should be handled by their respective warranty center. Please refer to the warranty documentation provided with your purchase for specific terms and conditions, including duration and coverage details. Keep your proof of purchase for any warranty claims.

11. CUSTOMER SUPPORT

For technical assistance, service, or inquiries regarding your Connex 3300hp radio, please contact the manufacturer directly. Refer to the contact information provided in your product packaging or on the official Connex website. When contacting support, please have your model number and purchase details ready.