

NOTICE

This "S" wired microphone does not require batteries or any external power connections. The microphone is powered by the transceiver. Please disregard any instructions pertaining to the installation of batteries.

WARNING

This "S" wired microphone is for use with 6-pin Magnum, Millennium and compatible radios only! "S" wired microphones are NOT for use on RCI, or other, radios with 6-pin microphones.

C-2024U/D TURBO™

The EC-2024U/D TURBO™ Power Microphone with TURBO™ Digital Echo, T.O.S.™ (Transmission-Over Signal or roger beep), Up/Down Channel Buttons and Talk Back is for use with any citizen's band (CB) or other two-way radio.

Features

- TURBO™ Digital Echo with Alien Voice™ and Reflex Echo™
- The Clearest, Loudest and Longest Echo in a Handheld Microphone
- Dual External Echo Controls on the Back Case for One-Handed Adjustments and Whammy Sound Effects™
- Automatic T.O.S.™ (Transmission-Over Signal or roger beep) with On/Off Control
- Up and Down Channel Buttons – Change Frequencies at the Microphone
- Talk Back with Volume Control – Monitor Your Own Transmissions
- Dual Op-Amp Power Microphone with Output Level Control
- Tough, Impact Resistant Case
- Access Holes in Back Case for Output and Talk Back Controls
- Separate Battery Cover for Quick and Easy Access
- Highest Quality, Soft Neoprene Outer Shell, 6 Conductor Microphone Cord
- Comes Pre-Wired for Any Radio

Installation Instructions

Before using your EC-2024U/D TURBO™ for the first time a new 9 volt battery must be installed. For best results make sure that the battery is new and at full power.

- Locate the battery cover on the back side of the microphone case.
- Gently slide the battery cover down towards the microphone cord to open.
- Carefully pull out the 9 volt battery snap and connect the new battery.
- Set the connected battery into the cavity and slide the battery cover back into place.
- The EC-2024U/D TURBO™ has an on/off switch located on the side of the microphone. To turn the microphone on, push the switch up towards the top of the microphone. To conserve battery life turn the microphone off when not in use.
- To check that the battery is new and installed properly, press the PTT lever on the side of the microphone and verify that the red LED on the front of the EC-2024U/D TURBO™ illuminates.

Connect the EC-2024U/D TURBO™ to the CB transceiver

- Insert the EC-2024U/D TURBO™ microphone plug into your transceiver's microphone jack. If the EC-2024U/D TURBO™ plug is a different configuration than the transceiver's jack the microphone can be rewired.
- Make sure that the microphone plug is firmly pushed into the transceiver's jack. Then screw the plug's threaded ring onto the microphone jack.

Operation Instructions

After the EC-2024U/D TURBO™ is installed properly it is ready for use.

- To transmit press in and hold the Push-To-Talk (PTT) lever. While the transceiver is in transmit mode speak into the front grill of the EC-2024U/D TURBO™. If feedback from the microphone is experienced adjust both the microphone gain control on the transceiver and the power volume (VR-2) on the EC-2024U/D TURBO™.
- To receive release the PTT lever.

Adjust the power microphone controls on the EC-2024U/D TURBO™

- Locate the Power Volume control on the back side of the microphone. "10" is the maximum audio output level and "0" is no audio output.

Adjust the echo controls on the EC-2024U/D TURBO™

- Locate the echo volume control on the front side of the microphone. The echo volume is the number of repetitions. Slide the control to increase or decrease the amount of echo volume. The "min" position is no echo effect at all and the "max" position is the maximum amount of echo.
- Locate the echo delay control on the back side of the microphone. The echo delay controls the length of each echo repetition.
- Spin the thumbwheel to increase or decrease the amount of echo delay. The "0" position is the least amount of delay (Alien Voice™) and the "10" position is the greatest amount of echo delay (Reflex Echo™).
- The echo delay control also creates the WHAMMY SOUND EFFECTS™. While transmitting, spin the echo delay control from "0" to "10", or "10" to "0", or anywhere in between for a different and unique sound.

Operate the T.O.S.™ (Transmission-Over Signal or roger beep)

- Locate the push button control in the front grill of EC-2024U/D TURBO™. To activate the T.O.S.™ push the button control until it locks in the down position. The T.O.S.™ will now sound upon releasing the PTT lever, informing the receiving operator that your transmission is complete.
- To turn off the T.O.S.™ push the button control again to release the switch.

Operate the up and down channel controls

- To move up in channels or frequencies push the "UP" button on the front face of the microphone.
- To move down in channels or frequencies push the "DN" button on the front face of the microphone.

Adjust the Talk Back controls on the EC-2024U/D TURBO™

- Talk Back allows the operator to monitor his or her own transmitted audio over the transceiver's speaker.
 - Locate the talk back control (VR-3) on the back side of the microphone. VR-3 controls the volume of the Talk Back. Turn VR-3 clockwise to increase the volume and counter-clockwise to decrease.
 - Feedback may occur if VR-3 is turned up too high.
- * Note : The Talk Back feature only works on those transceivers that switch the receive audio through the microphone circuit.

Wiring Information

The EC-2024U/D TURBO™, like all RF Limited microphones, comes prewired for any transceiver. However, the microphone can easily be rewired for a different transceiver when necessary.

The EC-2024U/D TURBO™ wiring code is as follows :

Wire Color	Wire Function
Shield Wire	Ground
Red Wire	Microphone Audio Output
White Wire	PTT Transmit
Blue Wire	PTT Receive
Yellow Wire	Up Channel
Black Wire	Down Channel

To rewire the EC-2024U/D TURBO™ simply match the pin functions on the transceiver's microphone input jack to the wire functions listed above. If you do not know the wiring information for your transceiver, contact RF Limited and we will help you locate the required information.

Specifications

Sensitivity	: -25dB @ 1,000 Hz (at maximum output and minimum echo)
Impedance	: 1 Kohm
Frequency Response	: 150 - 3,000 Hz
Echo Frequency Resp.	: 200 - 3,000 Hz
Echo Time	: 600 mseconds maximum
Battery	: 9 volt DC (006P or PP3)
Internal Noise	: 0.5mV or less
Microphone Element	: ECM type

Limited Warranty

*** IMPORTANT *** READ CAREFULLY *** IMPORTANT ***

The EC-2024U/D TURBO™ is warranted to the customer, for 90 days from the original purchase date, against manufacturing defects and breakage caused by normal use. To validate this warranty the original purchaser must mail a copy of the original sales receipt along with his or her name, address, and telephone number within 15 days of EC-2024U/D TURBO™ purchase date. RF Limited reserves the right to either repair or replace any defective EC-2024U/D TURBO™ under warranty. The EC-2024U/D TURBO™ is not warranted against breakage or defects caused by misuse of the product. RF Limited reserves the right to consider any warranty null and void if the product is misused or abused.



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