

Installation and
Operation
Instructions
Inside



EC-2018XTR™

XTREME™ 2018

Digital Echo for the Next Millennium.

The XTREME 2018™ is the latest digital echo microphone for Citizen Band and other two-way radios. The XTREME 2018™ takes CB radio to the extremes with new features like Endless Echo™, Double Talker™ and Noise Reducer™. Make your radio sound its best with the XTREME 2018™.

CYBORG™ Robotic Voice
Sound half man, half machine.

STADIUM SOUND™
Have the booming voice of a stadium announcer.

ENDLESS ECHO™
An unbelievable digital echo with a range from no echo to a never ending, repeating echo.

DOUBLE TALKER™
Repeats everything you say...repeats everything you say. This could get annoying...this could get annoying. Good thing you can turn it off...good thing you can turn it ----

WHAMMY SOUND EFFECTS™
Adjust the echo controls while transmitting to create the wildest of sound effects.

NOISE REDUCER™
Advanced noise reduction circuit decreases microphone sensitivity and reduces background noise, making sure they hear you and not your vehicle!

TALK BACK
Monitor your transmissions- know exactly what you sound like over the air

ALSO...
Echo controls on the outside of the microphone, so you are always in complete control, and the highest quality, and softest, neoprene 6 conductor microphone cord.

DIGITAL ECHO POWER MICROPHONE™
with DOUBLE TALKER™,
NOISE REDUCER™
and Talk Back

1PC XTREME 2018 "A"



7 19962 00352 2

PO BOX 1124
ISSAQUAH, WA 98027
TEL (425)558-9592
FAX (425)558-9704
www.rflimited.com
e-mail: info@rflimited.com



RFLimited™

Installation Instructions

- Before using your XTREME 2018™, For best results make sure that the battery is new and at full power.
- 1) Locate the battery cover on the back side of the microphone case (see illustration).
 - 2) Gently slide the battery cover down towards the microphone cord to open.
 - 3) Carefully pull out the 9 volt battery snap and connect the new battery.
 - 4) Set the connected battery into the cavity and slide the battery cover back into place.
 - 5) To check that the battery is new and installed properly, press the Push-to-Talk (PTT) lever on the side of the microphone and verify that the red LED on the front of the XTREME 2018™ illuminates.

Connect the XTREME 2018™ to the transceiver.

- 1) Insert the XTREME 2018™ plug into your transceiver's microphone jack. If the XTREME 2018™ has a different mic plug configuration than the transceiver's jack the microphone can be rewired.
- 2) 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

XTREME 2018™ Transmit and Receive Controls

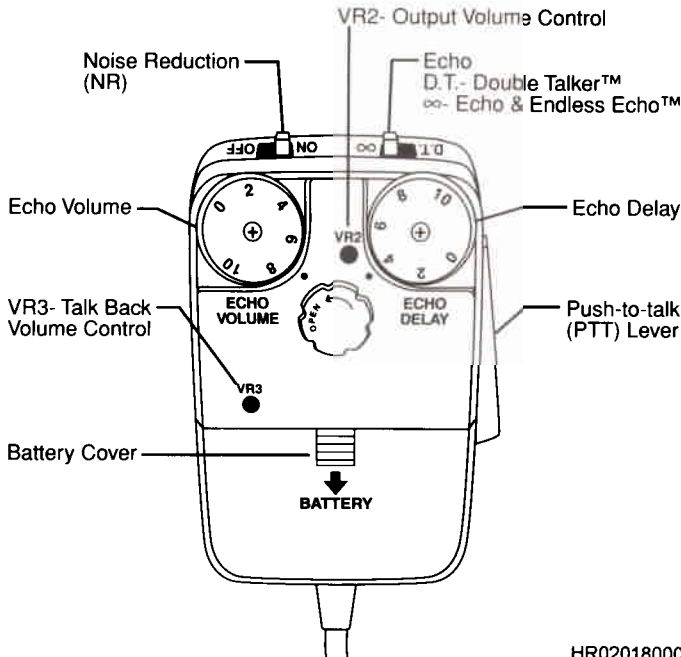
- 1) To transmit press in and hold the PTT lever. While the transceiver is in transmit mode speak into the front grill of the XTREME 2018™.
- 2) To receive release the PTT lever.

XTREME 2018™ Power Output Control

- 1) Locate the output volume control (VR-2) on the back side of the microphone (see illustration).
- 2) With a small screwdriver adjust VR-2 for optimum modulation. Turn clockwise to increase the output level and counter-clockwise to decrease.
- 3) NOTE: If VR-2 is increased to an excessive amount, feedback may occur. Adjust VR-2 and the radio microphone gain control (if available) so that no feedback occurs.

XTREME 2018™ Sound Effect Controls

- 1) The ECHO VOLUME on the back side of the microphone (see illustration) controls the number of repetitions. Turn the control to increase or decrease the amount of echo volume. The "0" position is no echo effect at all and the "10" position is the maximum amount of echo.
- 2) The ECHO DELAY on the back side of the microphone (see illustration) controls the length of each echo repetition, or the number of words that will be repeated. Turn the thumbwheel to increase or decrease the amount of echo delay. The "0" position is the least amount of delay and the "10" position is the greatest amount of echo delay.
- 3) The ECHO switch on the top of the microphone (see illustration) controls the DOUBLE TALKER™ function. Move the switch to the DT position to activate the DOUBLE TALKER™. Move the switch to the infinity (∞) symbol position for standard echo and ENDLESS ECHO™ sound effects.



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- 4) The 3 controls mentioned in (1), (2) and (3) can be adjusted to create a nearly infinite number of sound effects. To find the desired sound, adjust the 3 controls to every possible combination. A few sample settings are listed below along with the corresponding sound effect to speed up your search for the perfect sound!

ECHO VOL	ECHO DELAY	ECHO (switch)	Sound Effect
2 thru 10	0	∞	CYBORG™ Robotic Voice
2 thru 10	2	∞	STADIUM SOUND™
8 thru 10	8 thru 10	∞	ENDLESS ECHO™
2 thru 10	2 thru 10	DT	DOUBLE TALKER™

- 5) WHAMMY SOUND EFFECTS™ are achieved by slowly turning the ECHO DELAY control while transmitting and speaking. Make sure to set the ECHO VOLUME to the desired level and put the ECHO switch in the infinity (∞) position.

XTREME 2018™ Noise Reduction Control

- 1) The noise reduction (NR) switch on the top of the microphone controls the NOISE REDUCER™. When turned on, the NOISE REDUCER™ circuit decreases the microphone's sensitivity to background and surrounding noise, thereby improving transmitted audio in high noise environments (such as vehicles).
- 2) When operating the XTREME 2018™ in a vehicle or other high noise areas, turn the NOISE REDUCER™ on and hold the microphone within 1 inch of the mouth for optimum modulation.
- 3) When operating in a controlled environment with little or no background noise, turn the NOISE REDUCER™ off to gain the microphone's full sensitivity.

XTREME 2018™ Talk Back Control

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

Wiring Information

The XTREME 2018™, like all RF Limited™ microphones, comes prewired for any transceiver. However, the microphone can easily be rewired for a different transceiver when necessary.

The XTREME 2018™ wiring code is as follows:

Wire Color	Wire Function
Black Wire	PTT Common Ground
Shield Wire	Ground
Yellow Wire (if available)	Ground
Red Wire	Microphone Audio Output
White Wire	PTT Transmit
Blue Wire	PTT Receive

To rewire the XTREME 2018™ 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 max output and min echo)
• Impedance	: 1 Kohm
• Frequency Response	: 150 - 3,000 Hz
• Echo Frequency Resp.	: 200 - 3,000 Hz
• Echo Time	: Variable from 0 - 2 seconds maximum
• Battery	: 9 volt DC (006P or PP3)
• Internal Noise	: 0.5mV or less
• Microphone Element	: ECM type



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