

Wildtalk VOX-MC adaptor for Kenwood VOX

VOX can be problematic on a bike but this unit is designed to overcome many of the problems.

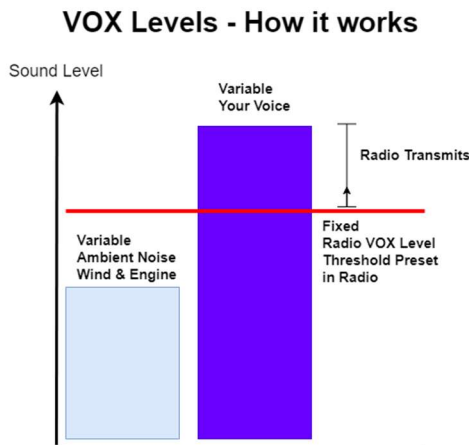
Normally these internal radio VOX circuits are ineffective in environments of varying noise levels such as found on a Motorcycle.

The VOX MC is a simple but effective device to allow you to use the crude internal VOX system found on many newer radios.

This device makes VOX functional for Motorcycle use over a wide range of speeds and without which the radio's VOX cannot cope.

How VOX Works

The noise VOX voice or For must be noise.



noise. You will naturally speak louder at higher speeds but the VOX preset remains fixed.

You could change the VOX level in your radio as speed and noise changes but this is not practical when riding.

How VOX MC Works

If we can make the Mic less sensitive as noise increases then the radio VOX should see a steady Sound Level allowing your voice to trigger the VOX when you speak.

This unit plugs in between your helmet Mic and your radio. It allows you to conveniently vary the Microphone sensitivity as your speed changes.

At high speed you can make the Mic less sensitive so it is less likely to pick up wind noise. You will naturally speak louder at higher speeds and this will trigger the radio VOX.

At lower speeds you adjust the unit to make the Microphone more sensitive. You will naturally speak quieter at lower speeds and this will trigger the radio VOX correctly too.

For best results you will need to tweak your radio.



VOX detector in the radio works by triggering the radio to transmit once levels exceed a preset threshold – the Level. It cannot know if the noise is your ambient noise (engine or wind noise).

radio VOX to work well the VOX level significantly higher than the ambient and then your voice needs to be significantly louder than the ambient

Setting up the radio

Note: If we have supplied your radio the settings below will be programmed into the radios.

Kenwood TK3201, TK3301, TK3401D and other Kenwood radios.

To activate Kenwood VOX power up the radio while holding the upper side button. The radio should announce VOX.

- Release the button. The radio will announce VOX Gain.
- Press either of the side buttons to adjust this to around level 9 or 10 which is the more sensitive setting. Press the Transmit button within five seconds to latch the setting to the radio memory.
- Power cycle the radio and it is ready to use.

Software settings.

The following settings can be adjusted only with software and we will do this for at or no charge other than the cost of return shipping.

Cancel Operation

If ticked pressing the radio transmit button will disable VOX until it is reactivated.

VOX Proceed Tone

The VOX proceed tone lets you know that VOX has been triggered with a beep in from the earpiece.

Transmit Inhibit while Receiving.

Essential when using two-way communications.

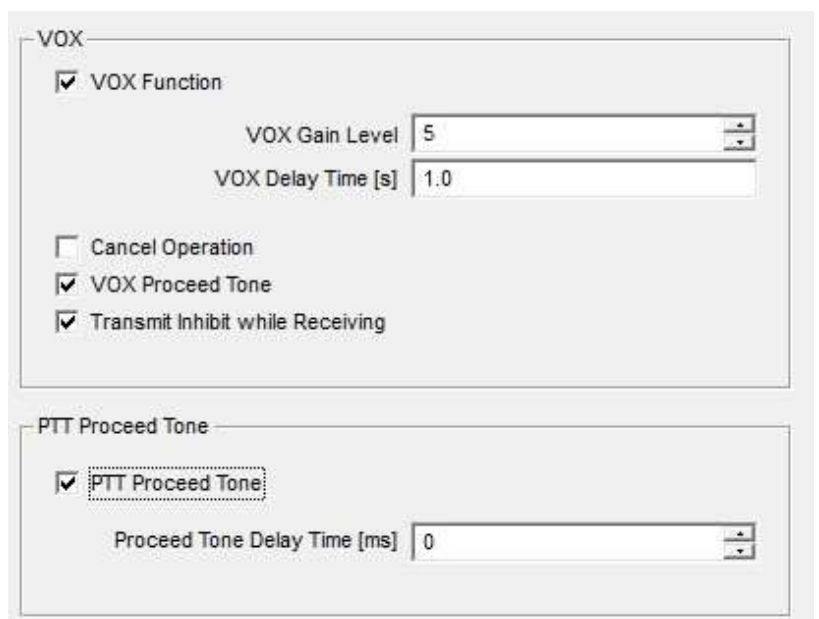
VOX Delay time.

This is the time the radio continues to transmit after you cease speaking. Longer times may be useful if you tend to pause a lot while speaking.

Time Out Timer.

AKA Stuck PTT timeout. This is the maximum time the radio will transmit before it automatically ceases to transmit. This setting could be increased if you do very long transmits.

The TOT pre-alert gives a warning beep a few seconds before transmission ceases.

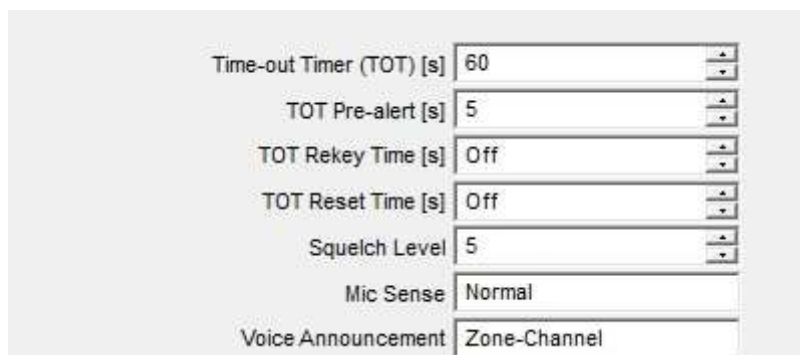


The screenshot shows two sections of a settings menu. The top section is titled 'VOX' and contains the following options:

- VOX Function
- VOX Gain Level: 5 (with up/down arrows)
- VOX Delay Time [s]: 1.0 (with up/down arrows)
- Cancel Operation
- VOX Proceed Tone
- Transmit Inhibit while Receiving

 The bottom section is titled 'PTT Proceed Tone' and contains:

- PTT Proceed Tone (highlighted with a dashed border)
- Proceed Tone Delay Time [ms]: 0 (with up/down arrows)



The screenshot shows a list of settings for the Time Out Timer (TOT):

- Time-out Timer (TOT) [s]: 60 (with up/down arrows)
- TOT Pre-alert [s]: 5 (with up/down arrows)
- TOT Rekey Time [s]: Off (with up/down arrows)
- TOT Reset Time [s]: Off (with up/down arrows)
- Squelch Level: 5 (with up/down arrows)
- Mic Sense: Normal
- Voice Announcement: Zone-Channel

Using the Wildtalk Helmet Kit

This helmet kit has been designed by Wildtalk to provide a loud and clear helmet compatible headset to fit inside most helmets.

The directional noise-cancelling Boom Mic is designed to work well in both high and low noise. It is robust and weatherproof.

The speakers are loud and clear but easily fitted into helmet linings.

Fitting the kit.

The boom Mic is typically mounted on the left side so the attached speaker should be positioned close to your left ear but far enough forward to allow the Mic to be close to your mouth.

Take care that the Mic is the correct way round (see image). Gently remove the foam windshield. You will see two holes on opposite sides of the boom tip. The hole nearest the tip end should be close to your mouth.

The speakers can be directly Velcro attached to many helmet linings, if not, the supplied self-adhesive loop pads can be attached to smooth surfaces and the speakers attached to them.

Because the speakers are loud, they are quite forgiving of their exact location in the helmet.

Use and Care

Keep the Mic foam clean and in good order. The foam helps reduce some wind noise. Store the cable inside the helmet when not in use to protect the cable.

If it is reported that your voice sounds muffled it will be that a small drop of water is blocking the Mic port. A quick blow or suck on the foam is usually enough to clear the blockage.

