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LYNX INTERCOM EQUIPMENT

HEADSET CONVERTER (UK NATO)

REF: E076-0 07-06-08

INSTALLATION INSTRUCTIONS

The UK NATO Headset Converter allows aviation headsets, or helmets, with UK NATO jack plugs to be used in aircraft which have Lynx intercom equipment installed.

The converter is only intended for use with intercom equipment manufactured by Lynx Avionics.

WARNING:

Connecting the Headset Converter to a Micro System interface unit switches the interface on.

If you wish to leave the converter connected to a Micro System interface, you will need to isolate the power to the interface using a master switch.

HEADSET
VOLUME
ADJUSTMENT

UK NATO
JACK SOCKET

UK NATO
PLUG

RADIO/POWER
INTERFACE UNIT

NOTE:

The UK NATO Headset Converter is factory set to work with headsets or helmets that are fitted with non amplified Dynamic microphones.

This setting can be altered to accommodate either amplified microphones or non amplified Electret microphones (See configuration instruction sheet).

IMPORTANT

READ THIS INFORMATION CAREFULLY BEFORE
ATTEMPTING TO USE THIS ITEM OF EQUIPMENT

INSTALLATION INSTRUCTIONS

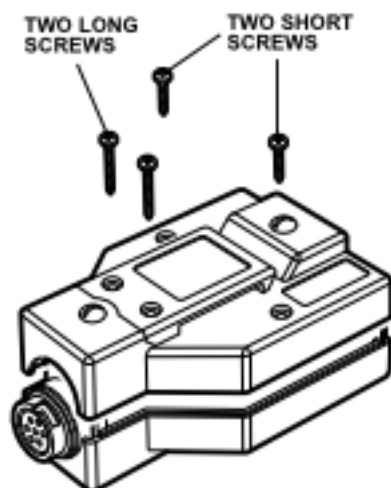
Headset Converters allow third party headsets and helmets to connect directly to Lynx Intercom equipment.

Five converters are available which accept the five different types of headset plug used in aviation and allow any general aviation headset or military helmet to be used in aircraft which have Lynx equipment installed.

CONFIGURATION

To access the internal setting switches and potentiometers remove the four screws which retain the rear case.

Please note that the rear case is secured using two long screws and two short screws.



MICROPHONE LEVEL:

Headset Converters can be configured to work with the following types of headset microphone:

1. Amplified Microphones.

Most modern headsets and helmets use amplified microphones.

This type of equipment may be fitted with twin jack plugs or a single US NATO helicopter jack plug.

2. Non amplified Electret microphones.

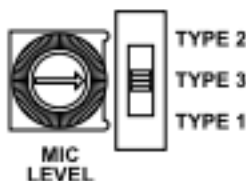
Non amplified Electret microphones are used in equipment manufactured specifically for use in Ultralight aircraft.

This equipment is usually fitted with a single stereo jack plug (\varnothing 6.35mm/0.25").

3. Non amplified Dynamic microphones.

Most military helmets, many older headsets and some modern helicopter headsets use non amplified Dynamic microphones.

This equipment may be fitted with twin jack plugs, a single stereo jack plug, a US NATO jack plug or a UK NATO jack plug.



NOTE:

The converter is equipped with a potentiometer next to the microphone selector switch which allows the headset microphone gain to be adjusted during manufacture.

The microphone gain is set to ensure that the correct microphone level is supplied to any radio which is connected to the system and it should not be necessary to adjust this setting.

Turning the potentiometer clockwise increases the microphone signal provided to the radio.

Turning the potentiometer anticlockwise decreases the microphone signal provided to the radio.

SIDE TONE:

The converter is equipped with a potentiometer which allows the headset side tone to be adjusted during manufacture.

The side tone is set to ensure that the correct amount of microphone audio is fed back to the headset speakers, and to other headsets connected to the system, and it should not be necessary to adjust this setting.

However, side tone adjustment may be useful under certain circumstances:

1. The side tone level may be adjusted to reduce the amount of microphone background noise when using headsets that have a particularly high microphone gain.

2. The side tone level may be adjusted to increase the microphone return for persons with hearing difficulties.

Turning the potentiometer clockwise increases the amount of microphone audio provided to the intercom system.

SIDETONE LEVEL



Turning the potentiometer anti clockwise decreases the amount of microphone audio provided to the intercom system.

NOTE:

Adjusting the side tone does not affect the microphone level supplied to any radio which is connected to the system.

ANR POWER:

The Headset Converter (Twin Jack) and the Headset Converter (Bose Lemo) can supply power to Active Noise Attenuation (ANR) headsets which would otherwise require a separate battery pack.

1. Headset Converter (Twin Jack).

The Headset Converter (Twin Jack) can provide headsets with either six or twelve Volts via the tip of the microphone jack plug.

The **LOW** setting will provide six Volts to the headset via the tip of the microphone jack plug.

The **HIGH** setting will provide twelve Volts to the headset via the tip of the microphone jack plug.

2. Headset Converter (Bose Lemo).

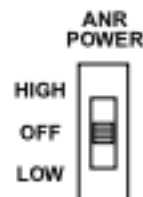
The Headset Converter (Bose Lemo) can provide headsets with either six or twelve Volts via the Lemo connector.

The **LOW** setting will provide six Volts to the headset via the Lemo connector.

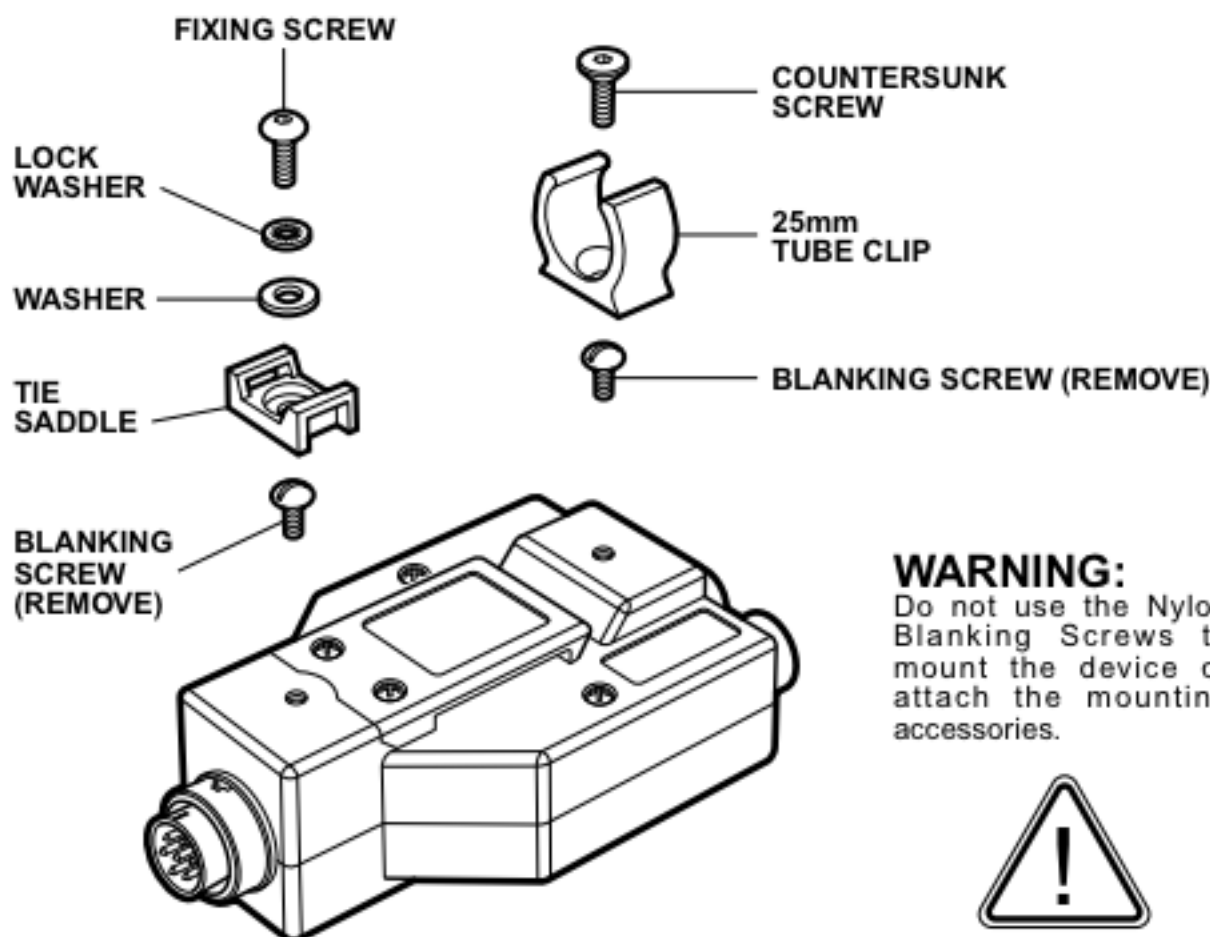
The **HIGH** setting will provide twelve Volts to the headset via the Lemo connector.

NOTE:

The ANR power should be turned-off when converters are used with non ANR headsets.



INSTALLATION INSTRUCTIONS



WARNING:
Do not use the Nylon Blanking Screws to mount the device or attach the mounting accessories.



Depending on the application, small devices may be mounted permanently using Velcro, Screws, Tube Clips, or Cable Tie Saddles.

To install using Velcro, simply apply one half of the self-adhesive Velcro to the back of the enclosure.

To install using M4 Screws, remove the two Blanking Screws and fix the enclosure in position through two \varnothing 5mm holes located at 74mm between centres.

To install using Tube Clips or Cable Tie Saddles, remove the two Blanking Screws and attach the clips or saddles as illustrated.

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