

KRT2-Adapter for adapting on existing 25-kHz-installations to the KRT2.

Remark: This document does not claim to be complete.

Version 4.2

Adapter:

KRT2-AR3201	(Shiftlock-locking)
KRT2-ART720/FSG40	
KRT2-AR4201	
KRT2-ATR500/600	(Clip-lock)
KRT2-FSG-70	(Screw -lock)
KRT2-Microair	

The new technology is different at a few signals specially for the speaker interface.

At older systems the speaker was tied to GND on one side.

The modern technology is designed for higher audio power and therefore the interconnection requires a differential wiring.

No one side of the speaker wire must be tied to GND.

Speaker:

The new adapters are containing a special transformer to convert from symmetrical to asymmetrical technique.

There is a small disadvantage by limiting the output power from 12W originally to 8W.

Microphone:

A basic problem exists by implementations in gliders using dynamic microphones.

A general statement is the use of adapters on systems with dynamic microphones can produce a whistling feedback while on transition.

Basically it has nothing to do with the radio.

The physical background is, that any common path (wire) for microphone-GND and supply-GND will enable a feedback while transition.

This is the result of the high gain required by the dynamic microphones.

The following solutions are possible **alternatively**:

- 1.) Change the microphone-GND so that it contacts the radio case only.
- 2.) Change the power-GND so that it contacts the radio case only.
- 3.) Use a different providing a higher output level as Electret with integrated preamplifier.

Limitations:

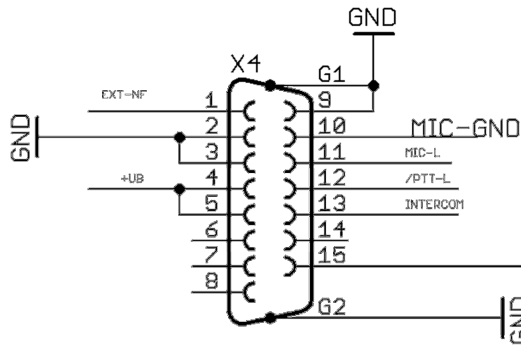
In case the old radio did not include functions like Intercom obviously it is not possible that the adapter can feed to all applications.

Basically the use of the output for speaker or headset is different between gliders and motor planes. In those cases it should be evaluated carefully if it makes more sense to prefer a new wiring.

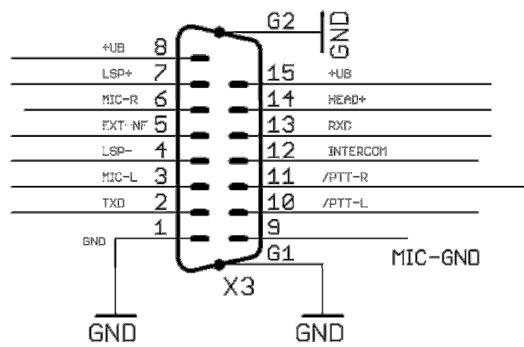
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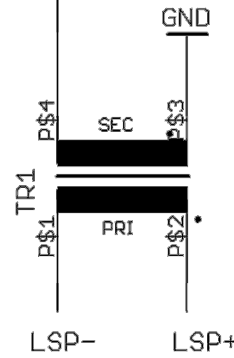
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AR3201



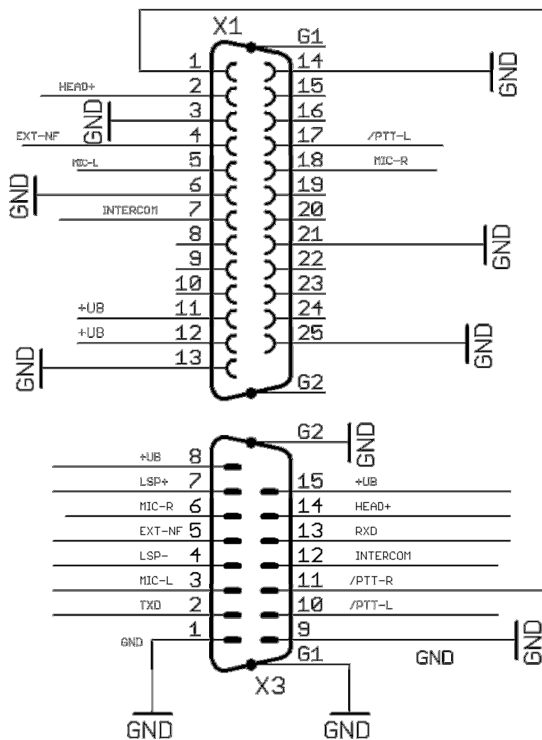
KRT2



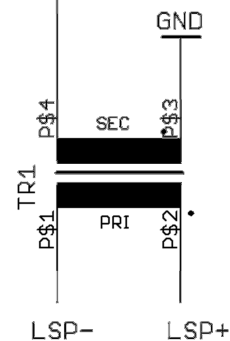
The AR3201 is the only old-radio providing just one output (pin 15) for speaker and headset.

That is why this adapter can be used only for gliders using the speaker.

For motor aircrafts this adapter should be required in version M which replaces the transformer by a wire for the headset joining KRT2-Pin 14 and AR3201-Pin 15.



AR4201

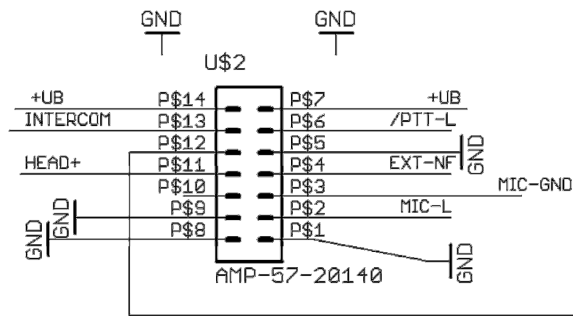


KRT2

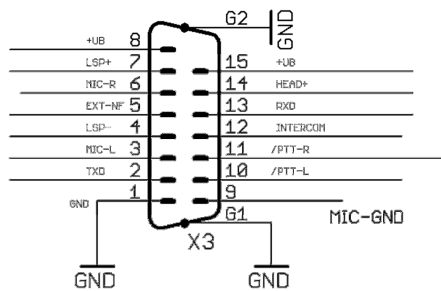
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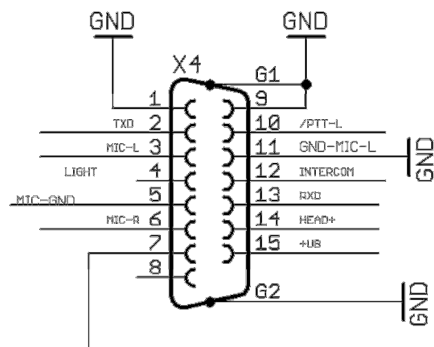
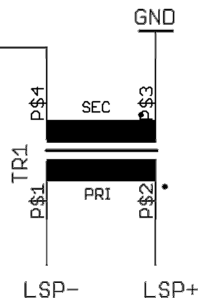
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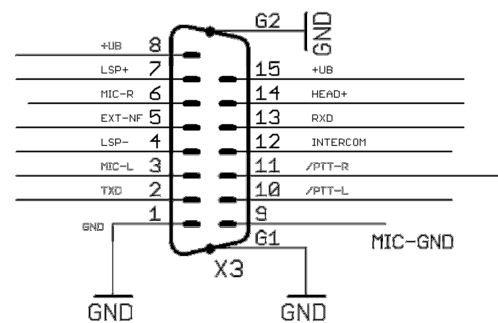
ATR720 / FSG40



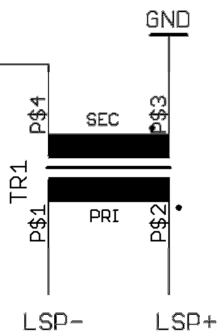
KRT2



ATR500 / 600



KRT2



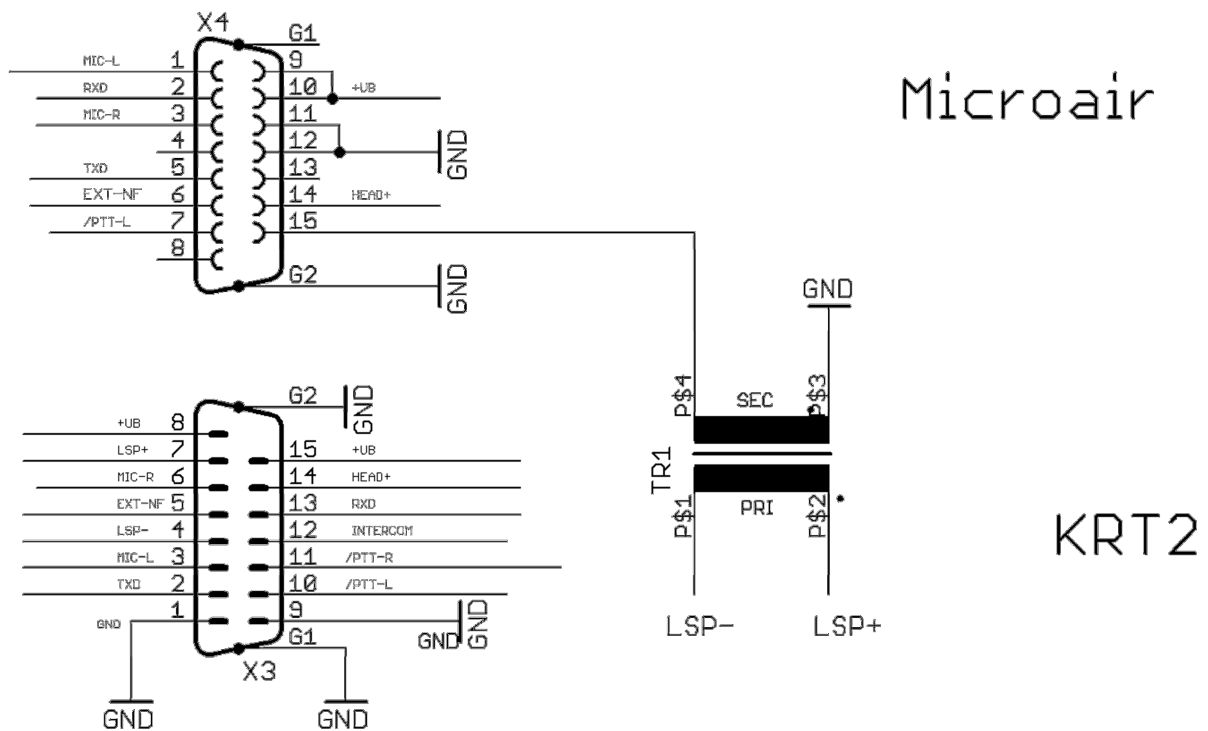
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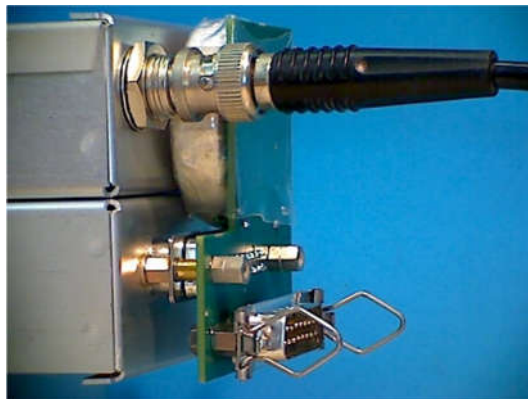
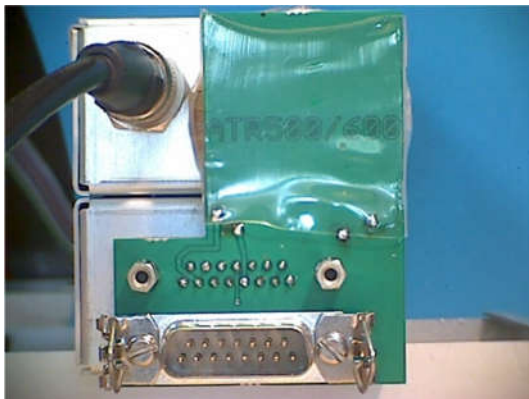
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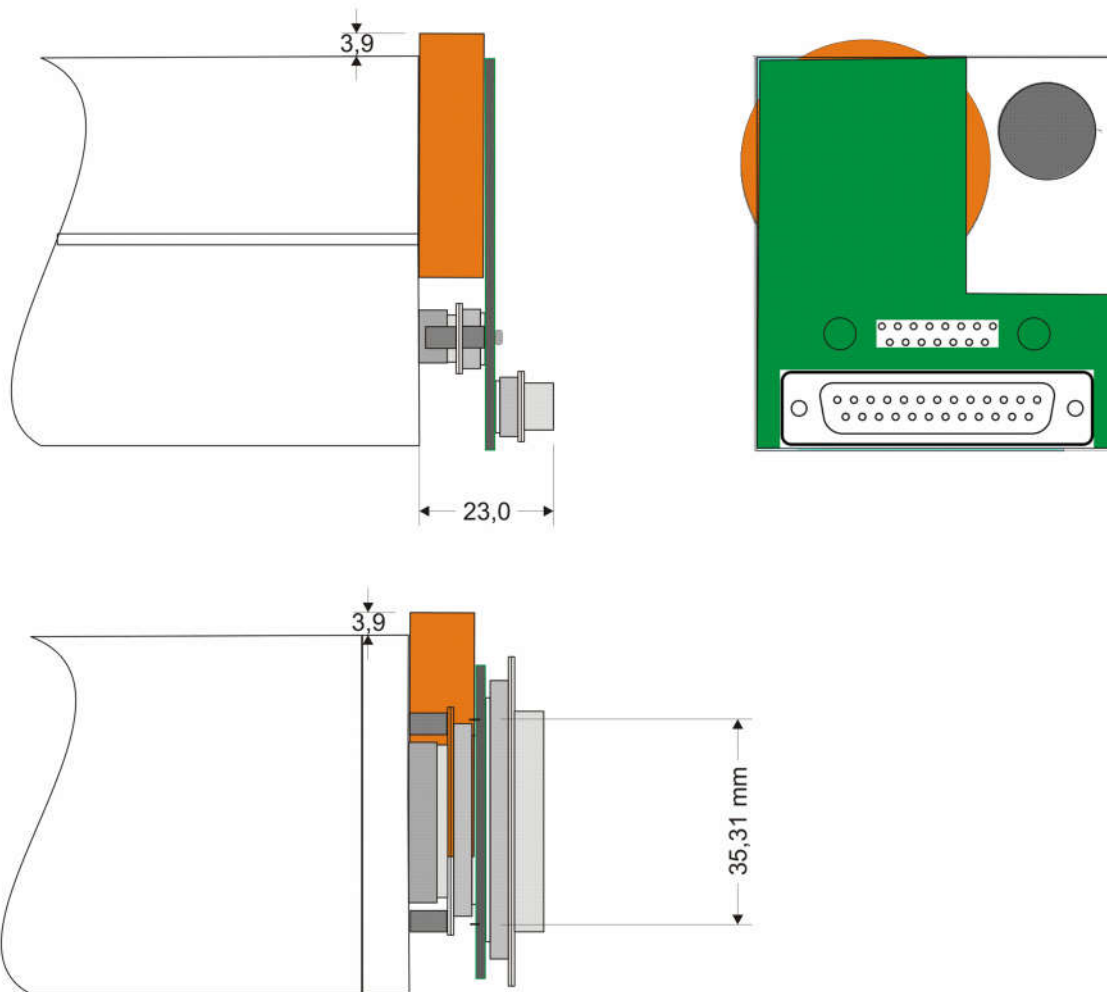
Note:

The adapter has to be fixed screwed onto the radio at the KRT2-connector.



The lock for the connector to the old radio is not a part of delivery; the image just shows an example.

It is not possible to guaranty the compatibility to the older technique. We recommend disassemble the old lock system and mount it to the adapter.



Adapter mit Ringkern-Trafo:

- 1.) Der Adapter muß am KRT2 angeschraubt sein.
- 2.) Die Klammer-Zugentlastung muß auf der Altgeräte-Seite sein.

KRT-2 Altgeräte-Adapter