



# Interfacing with RTS® Systems

## Applications Notes

### General

RTS® systems are incompatible with our Production Intercom systems, as well as Clear-Com® systems and any other 200Ω unbalanced system approximating Clear-Com. In addition to the different handling of communications, the means of activating the signal lights couldn't differ more.

Important: Connecting a Production Intercom system to an RTS system could cause damage to either or both systems.

### Two ways to get around the incompatibility.

Assuming a Production Intercom system and an RTS system, both with their own source of power:

#### Least expensive solution

1. Add an extra RTS belt pack to the RTS system.
2. Add a Production Intercom AD903 I/O adapter to the PI system. (It goes in and is connected to the system just as if it were another belt pack) You will need two if the system is 2-circuit.
3. Using a cable with two individually shielded conductors and two 4-pin XLR connectors (male-female) connect the RTS belt pack's headset jack to the 4-pin jack on the rear of the AD903.
4. Set the RTS audio level control at midpoint.
5. Set the RTS microphone switch to On.
6. The rest is tweaking.
  - a) Use the AD903's Null control to eliminate sidetone from the PI system. Having both systems' sidetone operating at the same time will give unpleasant results
  - b) Use the two level controls and the two high/low switches on the AD903 to achieve comfortable levels in both systems.
7. Reminders:
  - a) The recessed screwdriver adjust controls on the AD903 have 15 turns between off and maximum. One or two turns may have little if any effect, but when you get to the optimum level, fine tuning is possible.
  - b) This solution does NOT include activation of the signal lights from one system to the other.
  - c) Staff on the PI system will hear precisely what the RTS belt pack would send to its headset.

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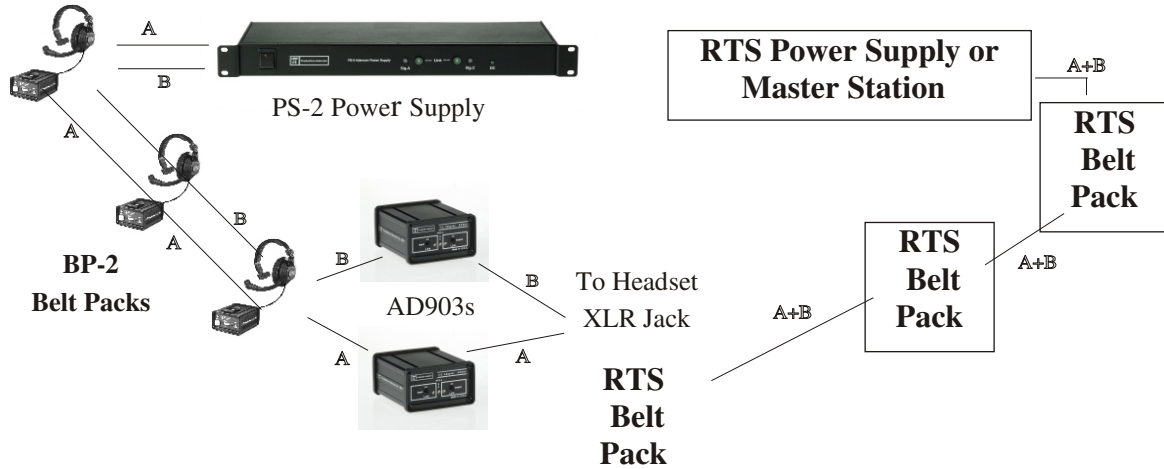
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c) If the RTS beltpack is 2-circuit and it mixes the audio from both circuits onto the audio output to the headset that is what will be heard on the PI system. If the RTS belt pack is set to go binaural (circuit A in one ear and circuit B in the other) you will need to add another AD903 and a Y-adaptor to split A and B for connection to two PI circuits.

**The Best Solution:**

Clear-Com® manufactures a sophisticated product solely for this purpose. It not only optimizes the connection but also permits use of the signal lamps across the two systems. The product is model TW-12B and its Pro Net Price at the time of this writing \$873.00. A data sheet is available on the Clear-Com web site. This is the professional solution. Due to the limited size of the market for such a device, we do not think it sensible for us to offer an equivalent.

**Low(er) Cost Approach**



**Best Solution**

