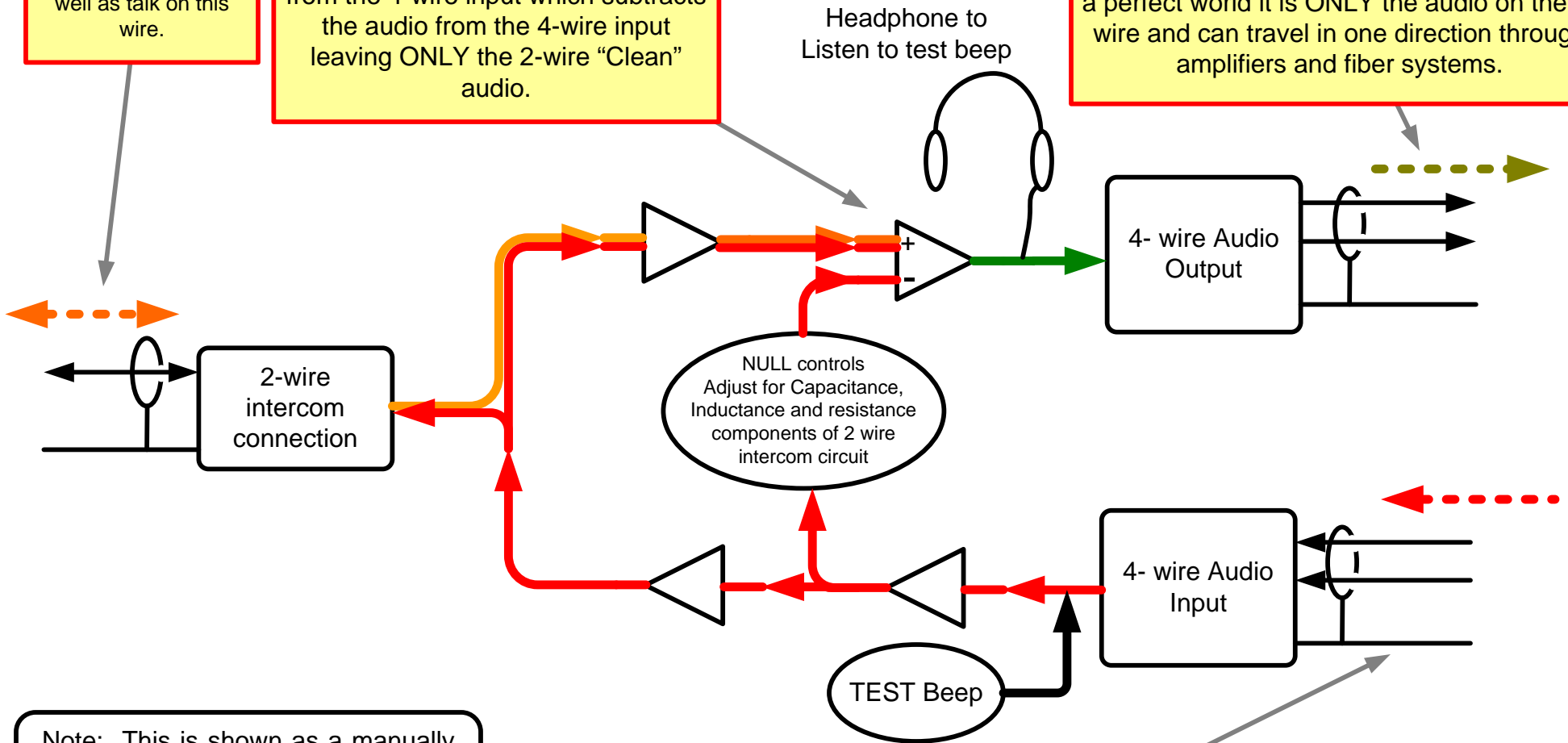


On the 2-wire side, Audio travels in both directions. Beltpacks listen to this wire as well as talk on this wire.

Here the 2-wire audio and the audio from the 4-wire input are mixed with the NULL adjusted inverse audio from the 4-wire input which subtracts the audio from the 4-wire input leaving ONLY the 2-wire "Clean" audio.

The 4-wire output, once the NULL is properly adjusted, has a minimum of 4-wire input audio and a maximum of the 2 wire audio. In a perfect world it is ONLY the audio on the 2-wire and can travel in one direction through amplifiers and fiber systems.



Note: This is shown as a manually NULLing hybrid, similar to a Clear-Com CC22 or EF-1M, or the older RTS converter. The RTS SSA-424 has automatic nulling. Occasionally this auto nulling becomes a problem when the system gets "over-nulled" The Studio Technologies Model 46 has manually activated auto nulling which eliminates this problem.

The 4-wire input is audio coming via amplifiers and fiber systems. The purpose of this hybrid is to maximize this audio in the 2-wire side while minimizing it on the 4-wire output.

Revisions		 <b>best audio</b> 320 Seventh Avenue, #264 Brooklyn, NY 11215 917-750-1134	2 wire to 4 wire converter	
				Theory drawing
Designer: Pete Erskine		SCALE: None	Drawn by: Pete Erskine	
DATE: Feb 13, 2007				Drawing Number
				<b>3</b>