



Production Intercom

**Installing an OG904  
in an LS-3  
with Override keyed by  
Press-to-Talk**

## Applications Notes

### 1) Set up OG904:

- a) Remove link “A” (if installed) between “Logic” and “Enable”.
- b) Remove switch SW1 if installed
- c) Confirm that links “B” and “C” **are** installed.

### 2) Connect 24V supply to OG904:

- a) Connect pin 2 of SKT1 to ground on the LS-3 board at terminal one of the terminal strip.
- b) Connect pin 3 of SKT1 to +24V on the LS-3 board at terminal 2 of the terminal strip.

### 3) Connect OG904 signal output to the LS-3:

Connect pin 3 of SKT2 to the top terminal of the LS-3 mic switch SW2. This wire must be shielded with the shield connected only at the OG904 end via pin 2 of SKT2. If supplied with a 2-conductor shielded wire for this purpose, cut back the unused conductor at the LS-3 end. Do not use; do not ground.

### 4) Connect the trigger from the LS-3 to the OG904:

- a) At the OG904 end, connect a single 22AWG stranded wire to the pin marked “Enable”.
- b) Connect the other end of this wire to Pin 11 of IC3 on the front board (the one closest to the front plate). Since Pin 11 of IC3 is connected via pin 13 on the interconnect strip, it is easier to make this connection on the rear of the rear PC board. The unlabelled link next to the legend number 14 is common with Pin 11 of IC3. Either end of the link may be used as the connecting point.

### 5) Adjust tone send and tone receive pots for reliable triggering:

The center frequency for OG904 operation is 25kHz. Measure the frequency of the output before proceeding. RV1 provides this adjustment. Key override and rotate RV4 on the LS-3 until the green LED for override is lit.

To operate two LS-3's in close proximity, equip both with OG904's then tune each to opposite sides of the 25kHz center point. Each will then trigger the other when press-to-talk is operated.

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