

Proper Installation of DT-GN and MM-GN Microphones with HB-3Plus

DT-GN



MM-GN



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1.0 General

This technical note is intended to explain the proper use of the **DT-GN** (Desk Top-Gooseneck) and **MM-GN** (Monitor Mounted-Gooseneck) microphone connectors when attached to the HB-3Plus Headset Adapter.

The GNM-18 (Gooseneck Microphone) supplied with these mounts are designed for high-noise/ close-talk operation; they should be mounted and aligned to properly operate within 3 to 5 inches of the dispatcher's mouth.

NOTE:

- Adjusting the HB-3Plus desk microphone potentiometer to support operation greater than 3 to 5 inches increases hum and noise in the transmitted audio-to-radio circuits.
- Contact your Telex sales representative for microphone solutions requiring operation from distances greater than five (5) inches.

1.1 HB-3Plus Setup

To set the **HB-3Plus jumpers**, do the following:

- > Move **JMP2** to the A position (Electret), no other changes are required.

1.2 HB-3Plus Alignment

To **align the HB-3Plus**, do the following:

1. Remove the four (4) **Philips head screws** holding the HB-3Plus's cover to access an internal test point.
2. Using an audio generator, inject 1 KHz at -35dBm into the **desk MIC connector**

NOTE: Pin-1 is ground and Pin 2 is TX+.

3. Adjust **R10** for -20dBm (± 1 dBm).
OR
Adjust **R10** for .09 Vrms ($\pm .01$ Vrms) at TP32
4. Test the **HB-3Plus**.
5. Reassemble the **HB-3Plus** for normal operation.

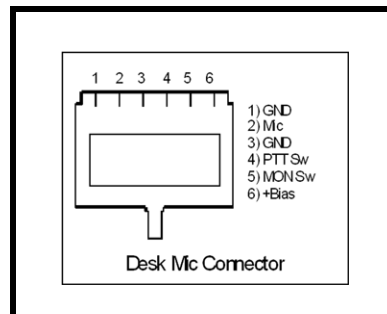


FIGURE 1. Desk Mic Connector Pin Outs

Revision History		
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Revision	Change Description	Date
A	Update brand, format and new document number.	31-MAR-2010

Suggestions or comments:

Contact technical support with suggestions or comments concerning this application note.

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