

### **Electro Voice Microphone Options for Dispatch Consoles**



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# ***Table of Contents***

---

<b>1.0 General .....</b>	<b>3</b>
<b>2.0 EV PolarChoice Desktop .....</b>	<b>3</b>
<b>2.1 Adapter cable for EV PolarChoice .....</b>	<b>4</b>
<b>2.1.1 Required Part Descriptions .....</b>	<b>4</b>
<b>2.2 EV PolarChoice Setup .....</b>	<b>4</b>
<b>3.0 EV RE20 Dynamic Microphone: .....</b>	<b>4</b>
<b>3.1 Adapter cable for EV RE20 .....</b>	<b>4</b>
<b>3.2 EV RE20 Setup .....</b>	<b>5</b>

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# ***Electro Voice Microphone Options for Dispatch Consoles***

## **1.0 General**

This application note is used to create an adapter cable and to configure the Telex Radio Dispatch HB-3+ console adapter box to operate with **EV** (Electro-Voice) microphone models PolarChoice and RE20.

## **2.0 EV PolarChoice Desktop**

The **PC** (PolarChoice) Desktop features the exclusive EV PolarChoice miniature multi-pattern gooseneck microphone. The multi-pattern versatility of the PolarChoice microphone makes it a true problem solver. With one (1) non-directional and three (3) directional polar patterns available, the PolarChoice microphone is ideal for virtually any installation. The PC Desktop also includes a switchable high-pass filter that helps reduce any vibration induced noise pickup.

**NOTE:** This unit does not support a panel mounted PTT (Push-to-Talk) button.



FIGURE 1. EV PolarChoice Desktop Microphone

## 2.1 Adapter Cable for EV PolarChoice

The Telex Microphone Adapter Cable, Electret (P/N ACC000098000) is available for purchase. Alternatively, you can manufacture a cable with a female 3-Pin XLR on one end and 6-Pin modular RJ-12 on the opposite end.

Use Table 1 for connector pin out information.

TABLE 1. PolarChoice Adapter Cable Pin Outs

3-Pin XLR (F)	6-Pin RJ-12	Signal
1	1	Ground
2	2	TX
3	6	+10Vdc

### 2.1.1 Required Parts

TABLE 2. Part Descriptions

Description	Part Number	Qty
XLR 3-Pin (Female)	35320002	1
Cordage	550002000	3 ft.
RJ-12 Modular Connector	2861958	1



FIGURE 2. PolarChoice Adapter Cable

## 2.2 EV PolarChoice Setup

The PolarChoice microphone can be configured for numerous modes of operation.

To **set the PolarChoice switches for HB-3+ operation**, do the following:

1. Set the Logic Mode Select to **Auto-Mixer**.
2. Select Polar Pattern and Hi-Pass for **desired sounding operation**.

## 2.3 HB-3+ Setup

To **set the HB-3+ jumper**, do the following:

- > Move **JMP2** to the A position (Electric).

**NOTE:** No other changes are required.

## 2.4 HB-3+ Alignment

Adjust the desk microphone input for an acceptable level into the console system.

## 3.0 EV RE20 Dynamic Microphone

The Electro-Voice RE20 is a professional quality dynamic cardioid microphone created for recording, broadcasting, and sound-reinforcement applications requiring essentially flat response over a very wide frequency range.

The wide frequency response, coupled with excellent transient response, make the RE20 comparable to the finest condenser cardioid microphones and an easily operated bass tilt-down switch corrects spectrum balance for use in long range situations or other applications where bass attenuation is needed.



FIGURE 3. RE20 Dynamic Microphone

### 3.1 Adapter Cable for EV RE20

The Telex Microphone Adapter Cable, Dynamic (P/N ACC000098001) is available for purchase. Alternatively, you can manufacture a cable with a female 3-Pin XLR on one end and 6-Pin modular RJ-12 on the opposite end.

Use Table 3 for connector pin out information.

TABLE 3. RE20 Adapter Cable Pin Outs

3-Pin XLR (F)	6-Pin RJ-12	Signal
1	1	Ground
2	2	TX
3	3	Ground

TABLE 4.

Description	Part Number	Qty
XLR 3-Pin (Female)	3532002	1
Cordage	550002000	10 ft.
RJ-12 Modular Connector	2861958	1

### 3.2 EV RE20 Setup

To set the **RE20** switches for **HB-3+** operation, do the following:

- > Select Hi-Pass for **desired sounding operation**.

### 3.3 HB-3+ Setup

To set the **HB-3+** jumper, do the following:

- > Move **JMP2** to the B position (dynamic)

**NOTE:** No other changes are required.

### 3.4 HB-3+ Alignment

Adjust the desk microphone input for an acceptable level into the console system.

**Notes:**

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**Suggestions or comments:**

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