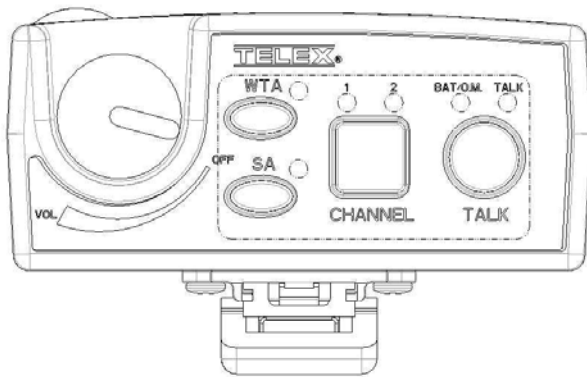


Telex Model TR-80N Beltpack



Owners / Users Manual (Preliminary Information)

General Description:

The Telex model TR-80N beltpack transceiver is a component of the BTR-80N wireless intercom system. The TR-80N is intended for use as a belt worn wireless full duplex portable intercom radio for use in a professional installation such as television or cinema production.

Each BTR-80N base station can be used with one to four TR-80N beltpacks. The TR-80N transmits within the 614 to 722 MHz range (TV Channels 38-55). It receives in the 482 to 608 MHz range (TV Channels 16-36). The TR-80N transmitter operates on a single frequency within an 18 MHz wide section of the transmit frequency range. The receiver also operates on a single frequency within an 18 MHz wide section of the receiver frequency range.

The RF coverage range of the TR-80N communicating to a base station may be up to 200 meters (656 ft).

The transmitter has three selectable conducted output power output levels; 5mW, 50mW and 100 mW. The transmit power can also be set to automatically reduced to the above listed power levels when the unit is close-in to the base station to aid in intermodulation reduction and unnecessary transmit power.

Operating frequencies can be selected from pre-set groups or the user can select special operating frequencies within the 18 MHz wide allotments.

The LCD display and buttons are located on the back panel.

From the LCD display and buttons the following menus may be obtained:

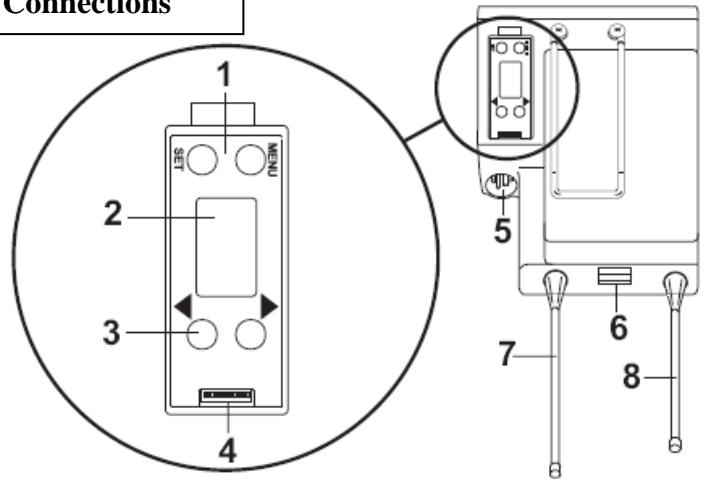
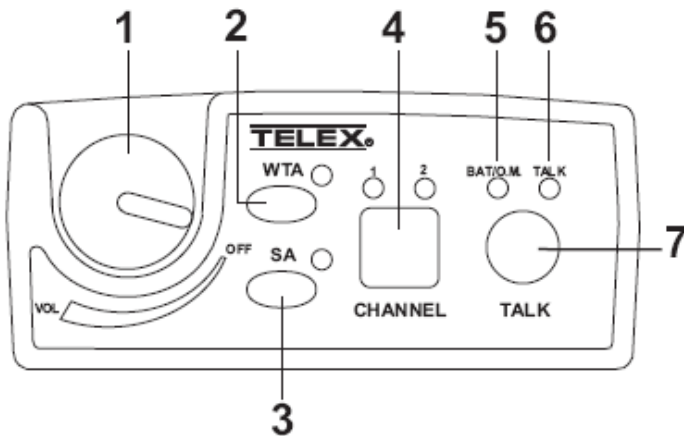
- Group and Channel
- Transmit Frequency
- Receive Frequency One
- Receive Frequency Two
- Microphone Gain Setting
- Battery Life
- Transmit power level (5mW, 50mW 100mW or Auto between the values)
- Receiver Squelch Level
- Push-to-Talk / Push-to-TX mode
- Top Panel LEDs on or off.

The on/off/volume control, talk button, talk light, low battery indicator, microphone overmod. light, audio channel 1 or 2 button and lights, wireless talk around (WTA) and stage announce (SA) buttons are located on the top panel.

Transmit and receive antennas are attached to the TR-80N. Either or both unscrew for field replacement but are not coaxial connectors.

The TR-80N beltpack can be powered by AA Alkaline or a Nickel-Metal Hydride Battery pack.

Controls and Connections



1. **ON/OFF & Volume Control** – Turns the beltpack power on and controls headset volume.
2. **WTA Button and Light** – Wireless talk button. When pressed, the user's audio is disconnected from the wired intercom at the base station.
3. **SA Button and Light** – Wireless talk button. When pressed, the user's audio is routed to the stage announce connector on the back of the base station. The user also loses their sidetone as an indication that stage announce is activated.
4. **Audio Channel Select Button and Lights** –Allows the user to select either audio channel 1 or 2.
5. **BAT/O.M. Light** –

Battery -	Light flashes on power up	= Battery OK
	Light on continuously	= Battery Low
	Light does not flash or come on	= Battery Dead
Microphone Lvl:	Light flashes on loudest speech	= Gain OK
	Light flashes on all speech	= Gain too High
	Light never flashes on loudest speech	= Gain too Low
6. **Talk Light** – LED is on when the talk button, SA or WTA is active.
7. **Talk Button** – Press to enable the audio path from the headset.
 Software Selectable modes: Push-to-Talk
 Push-to-Latch

1. **[MENU] and [SET] buttons** – Used to select menus and set options on the LCD.
2. **LCD display.**
3. **[UP] and [DOWN] buttons** - Used to select menus and set options on the LCD.
4. **Programming Connector** – Used to update flash in unit.
5. **Headset Connector** – XLR Plug for Telex units, XLR Receptacle for RTS units.
6. **Battery Latch** – Press down to enable the battery pack to be released. While the latch is held down, slide the battery pack about 1/8 inch back, toward the latch, until it stops, then lift out.
7. **Receive Antenna** – The antennas are screw type, ¼ wave, replaceable antennas. The color dot on the screw end of the antenna must match color dot on antenna receptacle.
8. **Transmit Antenna** – The antennas are screw type, ¼ wave, replaceable antennas. The color dot on the screw end of the antenna must match color dot on antenna receptacle.

