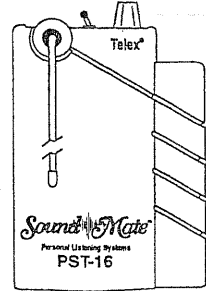


Telex

Operating Instructions



Sound Mate
Personal Listening Systems

PST-16 16 Channel Synthesized Transmitter

TELEX

TELEX

TELEX COMMUNICATIONS, INC. 9600 Aldrich Ave. So, Minneapolis, MN 55420 U.S.A.

PN 801711

DEC 1998

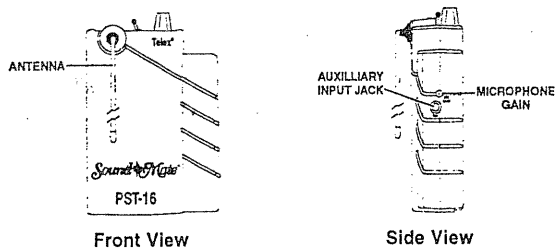
Made in U.S.A.

PST-16 SPECIFICATIONS

Number of Channels	16 User Selectable Channels
Power Output	80,000 uV/M at 3 meters, maximum
Antenna	Permanently attached trailing wire
Modulation	FM, +/- 25 KHz Deviation
Frequency Response (System)	100 Hz to 10,000 Hz
audio Input	
	Microphone, TA4M connector, 7.75 mV RMS input for 25 KHz deviation. Impedance, 10 K Ohms, nominal.
	Aux. Input, Female 1/8 in. 100 mV. Unbalanced, 10K Ohms, nominal.
AGC Range	30 dB
Signal to Noise Ratio	58 dB
Preemphasis	100 u Seconds
Power	2AA Alkaline or Nickel Cadmium batteries
Battery Life	8 Hrs - Alkaline 4 Hrs - Nickel-cadmium

CHANNEL ASSIGNMENT

Channel #	Freq. (MHz)	Channel #	Freq. (MHz)
A	72.1	O	74.7
B	72.2	P	75.3
C	72.3	Q	75.4
D	72.4	J	75.5
E	72.5	K	75.6
G	72.7	L	75.7
H	72.8	M	75.8
I	72.9	N	75.9



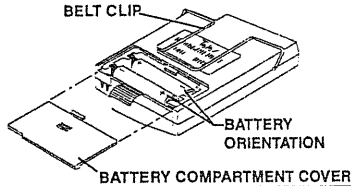
Front View

Side View

BATTERIES

The PST-16 Transmitter uses two AA batteries. Position them in the battery compartment as illustrated. You can expect 8 hours of operation from alkaline batteries and 4 hours on nickel-cadmium batteries. Charge Pins are provided on the bottom of the unit that fit Telex drop in chargers.

CAUTION: Do not attempt to recharge alkaline batteries as this may result in personal injury.



NOTE: If the unit is to be stored for any length of time be sure to remove the batteries from the unit.

Transmitter Channel

The PST-16 Transmitter may be set to any one of 16 channels.

Two Transmitters cannot operate on the same channel unless separated by 300 feet (91 m) or more (which is the average maximum operating range). If two transmitters are operating on the same channel inside this perimeter, the receivers will pick up the FM signal of both transmitters, causing a squealing sound to be heard.

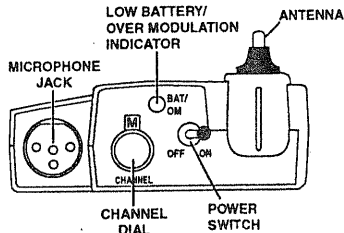
Antenna

The transmitter uses a flexible wire "trailing" antenna that is permanently attached to comply with FCC Part 15 Rules. Do not cut or lengthen the antenna. This is a tuned antenna and modification will shorten the range.

Audio Input

There are 2 audio input jacks on the transmitter. One is the Auxiliary input designed to allow audio devices such as teachers aids or tape players to be used. The input jack is a 1/8 inch (3.5mm) stereo/mono jack. Typical input level is 100 mV RMS maximum for normal modulation. More than this input will cause the audio to "limit" which may sound unnatural. Reduce the input level, if this should happen, by turning down the input device.

The second jack is the normally used microphone input. This jack is located on the top panel "step" of the transmitter. The microphone is supplied with the transmitter but other types can be used as well.



Top View

Frequency/Channel Considerations

As with any radio device, interference can occur at any time. The frequencies offered are shared with other legitimate users. Check the frequency/channel with a receiver to see if any interference is present. If interference is present, choose a different channel. The severity of interference varies with location and distance to the interfering station. If the interference is weak on all channels, this is probably acceptable since the PST-16 will cover the interference and is unlikely to interfere with other users. Multiple Channel Systems require other considerations but each channel should be checked as above.

Placement of the Transmitter and Microphone

Place the transmitter on the users belt or in their pocket, preferably with the antenna facing the receiver. Do not coil the antenna and put it in a pocket. This will severely reduce the operating range.

Place the microphone about 10 to 12 inches below the mouth of the user.

Transmitter Operation

Turn on the transmitter with the toggle switch on top of the PST-16.

When the power switch is turned on, the Battery/Over Mod light should flash once. This indicates good batteries. If the light stays on, there is less than 1 hour of battery life remaining. If the light does not flash, the batteries are dead.

With the power switch in the on position, the channel dial will be illuminated.

Speak into the microphone while watching the Battery/Over Mod light. Adjust the gain control on the side of the PST-16 until the light just flickers on the loudest speech then turn counter clockwise 1/8 of a turn.

If the microphone and an auxiliary device is used at the same time, it is preferable to set the aux input device with its own control.

Adjust the appropriate output level control until loud program material passages sound natural in the receiver. This allows sufficient "headroom" to prevent peak distortion on loud inputs. The PST-16 AGC (Automatic Gain Control) will help maintain the correct level.

System Walk Through

Now that the transmitter is set up, you should be able to hear the program material on the receiver. Walk the receiver through the area that it is intended to be used in. Check for any noise or interference that would cause undesired operation. Some of the causes of poor performance are listed below.

- Poor transmitter location
- Poor receiver location
- Interference
- Local AC Line noise
- RF "Trouble Spots"
- Operating distance beyond system capability
- Malfunctioning System, receiver or transmitter

FCC INFORMATION

The Telex Model PST-16 is authorized under FCC Rules Part 15. Licensing of Telex equipment is the user's responsibility and licensability depends upon the user's classification, and frequency selected.

CAUTION: Changes or modification made by the user could void the user's authority to operate the equipment.

Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

ACCESSORIES

Description	Catalog No.
WLM-50 microphone (supplied with PST-16)	64277-000
ELM-22 Micro Mini lapel microphone	70925-001
AT-8316 Unidirectional lapel microphone	70856-000
SCHS-745 headworn microphone	745TA4
BC-100 battery charger-2 pocket	71216-000
(also fits SR-50/100 receivers)	
Waist Belt	17794-002

WARRANTY INFORMATION

FILL OUT AND RETAIN THIS PORTION FOR YOUR RECORDS

Model(s) _____ Serial No(s): _____
 Date of Purchase _____
 Purchased From _____
 Address _____
 City _____ State _____ Zip _____

LIMITED WARRANTY (VALID UNITED STATES AND CANADA ONLY)

TELEX Communications, Inc. ("Telex") warrants to the user, who originally purchased the serialized product delivered with this card, that the product will be free from defects in material and workmanship for the following periods after such date of purchase. Material 36 months, workmanship 36 months. Microphones, earphones, neckloops, cables & connectors are warranted for ninety days. Telex will, at its option, repair or replace free of charge such defective products subject to the following conditions:

1. Delivery of the product or parts postage prepaid to the Telex dealer, authorized service facility or factory.
2. Determination by Telex that a defect exists and is covered by limited warranty. Defects due to alteration, repair by unauthorized persons, insertion of non-Telex parts, misuse, accidental damage, use of the equipment for purposes other than those for which it was designed, and the like, are not covered by this limited warranty and repairs thereof will be subject to normal service charges.
3. Repairs and replacement parts are covered under this limited warranty only for the unexpired term of the original limited warranty.
4. Products purchased from unauthorized dealers are not warranted.
5. You must fill out and return the product warranty card to register the purchase date of serialized items. A copy of the bill of sale showing the date of purchase must accompany all warranty work.

THIS LIMITED WARRANTY IS EXPRESSLY IN LIEU OF ANY EXPRESS OR IMPLIED WARRANTY, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WHICH EXTENDS BEYOND THE TERM HEREOF. THE REMEDIES PROVIDED BY THIS LIMITED WARRANTY ARE THE ONLY REMEDIES AVAILABLE TO ANY PERSON. NO PERSON HAS ANY AUTHORITY TO BIND TELEX TO ANY REPRESENTATION OR WARRANTY OTHER THAN THOSE PROVIDED BY THIS LIMITED WARRANTY. TELEX SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES CAUSED BY FAILURE OR OTHERWISE OF THE PRODUCT.

Some states do not allow exclusions or limitations of incidental or consequential damages or limitations on how long an implied warranty lasts, so the limitations or exclusions herein may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



Detach Warranty Registration and mail to:

Telex Communications, Inc.
 9600 Aldrich Ave. South
 Minneapolis, MN 55420

WARRANTY REGISTRATION
 SOUND ENHANCEMENT SYSTEMS
 Limited Warranty (Previous Page)

Owner's Name _____
 Address _____
 City _____ State _____ Zip _____
 Purchased From _____
 Address _____
 City _____ State _____ Zip _____
 Date of Purchase _____
 Model No(s): _____ Serial No(s): _____