THE APPLICANT HAS BEEN CAUTIONED AS TO THE FOLLOWING:

15.21 INFORMATION TO USER.

The users manual or instruction manual for an intentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

15.27(a) SPECIAL ACCESSORIES.

Equipment marketed to a consumer must be capable of complying with the necessary regulations in the configuration in which the equipment is marketed. Where special accessories, such as shielded cables and/or special connectors are required to enable an unintentional or intentional radiator to comply with the emission limits in this part, the equipment must be marketed with, i.e. shipped and sold with, those special accessories. However, in lieu of shipping or packaging the special accessories with the unintentional or intentional radiator, the responsible party may employ other methods of ensuring that the special accessories are provided to the consumer, without additional charge.

Information detailing any alternative method used to supply the special accessories for a grant of equipment authorization or retained in the verification records, as appropriate. The party responsible for the equipment, as detailed in § 2.909 of this chapter, shall ensure that these special accessories are provided with the equipment. The instruction manual for such devices shall include appropriate instructions on the first page of text concerned with the installation of the device that these special accessories must be used with the device. It is the responsibility of the user to use the needed special accessories supplied with the equipment.

Owners Manual/Operating Instructions
Telex Model PST-16 Auditory Assistance Transmitter

Carefully unpack your Auditory Assistance Transmitter. If there is any damage or any shortages, please refer to the "Warranty Service Information".

Transmitter Location: Try to keep a clear, unobstructed path between the transmitter and the receiver. The transmitter should not be used between objects such as metallic building structures and file cabinets as this can cause short distance and reflections that could cause fading of the signal. Place the transmitter on the users belt or 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 distance.

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 AUXilliary input designed to allow audio devices such as teachers aids or tape recorders to be used. The input jack is a 1/8 inch 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 in if this should happen, with the Audio Gain Control located on the side of the unit or turn down the input device.

The second input is the normally used microphone input. This input 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. Place the microphone element about 10 to 12 inches below the mouth of the user. Adjust the gain control mentioned above to adjust the transmitted volume. If the microphone and an auxiliary device is used on the same transmitter, it is preferable to control the aux input device with its own volume. This input also has a compressor/limiter to help control volume.

Power:
DO NOT TURN UNIT ON AT THIS TIME.
Power is provided by 2 "AA" size batteries. Alkaline batteries provide the best battery life. Nickel Cadmium rechargeable batteries can be used also but with shorter battery life. 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.

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 the matching 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 your transmitter 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.

Transmitter Operation: Now that you have checked all of the channels you intend to use, apply power to the transmitter by pressing the Toggle Switch on top of the transmitter towards the channel selector switch. The Power light should now be on. Select the RF Channel on the transmitter to match the receiver channel. Turn the program material on (tape recorder, PA, etc. or use the microphone) Adjust the appropriate tape output etc. level control until loud program material passages sound natural in the receiver. This allows sufficient "headroom" to prevent peak distortion on loud inputs. The transmitter system 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 appropriate 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.

Specifications:

Audio Input.....
Level, Microphone, 7.75 mV RMS for rated deviation, 25 KHz maximum.
Impedance, Microphone, 10 K Ohm nominal.
Level, AUX input, 100 mV RMS for rated deviation, 25 KHz maximum.
Impedance, AUX input, 10 K nominal.

AGC Range.....30 dB
Signal To Noise Ratio.....58 dB
Pre-emphasis.....100 u Seconds
Maximum Deviation.....25 KHz
Frequency Tolerance.....+/- 0.005%, Phase Locked Loop
Number of Channels.....16, user selectable
Frequency Range.....72-76 MHz

Note: All frequencies within the above range are factory selected on legal frequencies and the transmitters are not field programmable.

RF Power Output.....8,000 uV/M @ 30 M., Maximum.

Warranty Service Information:

Please see the separate Warranty Card supplied with this product.

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 users classification, and frequency selected.

CAUTION: Changes or modifications 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.

PST-16 ALIGNMENT

1. Turn power switch on.
2. Turn channel switch to N.
3. Adjust VC101 for 4.0VDC at TP101.
4. Adjust VC102 for 75.9 MHz.
5. Turn VR1 maximum clockwise.
6. Feed 10 mV at 1 kHz into the microphone connector (pin 1 gnd, pin 2 hot).
7. Adjust VR101 for 25 kHz deviation.