



LPB Communications, Inc.
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LPB Trans-Pack System

◆ Introduction

The Trans-Pack System was developed to allow mobile language translation or information transmission to a group of listeners. It was designed to work with the LPB Card Radio or LPB Digital Radio receivers over a short distance (50ft radius typically) to allow for international operation without violating local broadcast regulations. Individual country rules may vary. This device is FCC Certified for use in the United States.

The basic system includes a low power FM transmitter, battery power pack, operate/charge switch, microphone and cable. All of this is housed in a portable carry pack for ease of transport and operation. The system, except the microphone, cable and carry pack is attached together and should not be separated except by LPB technicians.



The System includes (1) Battery Charger; (2) FM Antenna; (3) Transmitter with Internal Microphone Preamplifier; (4) Rechargeable Battery Pack; (5) Microphone Cable; (6) Microphone

◆ Unpacking

The transmitter, battery unit, power switch assembly and the antenna remain in the carrying pack for operation. Also leave the padding in place. The microphone and cable are located in the front pouch of the carry pack, and the battery charger is alongside the transmitter and battery in the carry pack. The microphone cable plugs into the provided cable in the front of the transmitter (a standard XLR connector) and the other end (a standard XLR type) plugs into the microphone.

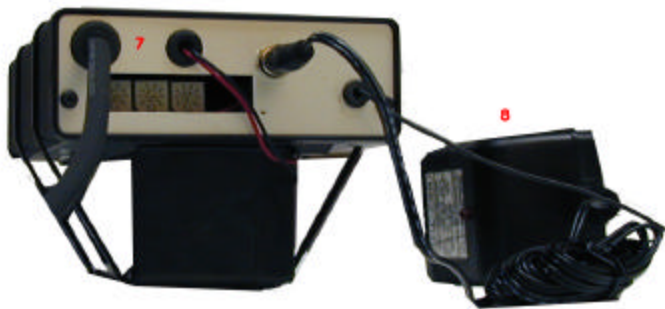


XLR connection from the transmitter to the microphone is made with the provided cable. Do not remove the cable from the transmitter. Simply connect the provided cable to the transmitter cable and the microphone.

◆ **Basic Operations**

Transmitter On/Off: The transmitter package is run by battery. In order to conserve battery life and ensure the maximum system performance, ALWAYS TURN THE SYSTEM OFF (Charge Position) WHEN NOT IN USE. The switch labeled 'Operate/Charge' is located inside the carry pack. In the 'Operate' position, the system is turned on and power is being drawn from the battery. The system should operate for about 12 hours continuously without recharging. The LED indicator will be on while the transmitter is operating. If the LED does not come on when the switch is placed in the 'Operate' position, the battery requires charging. (See Battery Recharging below). While the system is not in use, place the switch in the 'Charge' position. This will prevent battery power from draining.

Frequency Selection: In order to choose a good frequency for local operation, we recommend using the provided LPB Digital Radio receiver. Select a frequency on the FM band which does not have a radio station present by listening and adjusting the +/- tuning buttons. Once you have found a good frequency, ideally with one or more adjacent frequencies also clear, you can set the transmitter using a small screwdriver.



Frequency Selection on the rear of the transmitter (7)

Frequency Setting: The three rotary switches which you can see through the face of the transmitter, without removing it from the pack, are to be set using the included screwdriver. With the transmitter **OFF**, rotate the switches so that the small arrow points to the corresponding frequency ("O" on the first switch is "10" in settings).

EXAMPLES	Switch Setting	1	2	3	=	
		8	8	1	=	88.1 FM
		9	8	3	=	98.3 FM
		0	2	9	=	102.9 FM
		0	7	9	=	107.9 FM

For operation with European radios you can also set the channels for Even numbered spacing by making the 3^d switch setting even (ie. 884 = 88.4 FM). This is only necessary if the band is very crowded in your location, otherwise, standard US settings (odd numbered endings) are better for your listeners.

If you do not seem to be clearly on frequency – turn the transmitter off, recheck your switches to make certain that you have them “clicked” in place in front of a number, and turn it back on.

Antenna: The antenna is a thin black wire coming from the front of the transmitter. This should be extended out of the carry pack and allowed to hang alongside the case in a roughly vertical manner. Be careful not to catch the antenna wire in the zipper when closing up the case.

Microphone Connection: The microphone and included cable are very easy to connect. These can only be attached in one manner. The connection at the microphone will “click” into place to ensure that it is correct.

Microphone Use: The microphone is designed for excellent voice reproduction. To use this microphone you should hold it approximately 4 inches from your mouth and speak in a normal conversational tone. We suggest practicing this with a radio so that you can understand the way that the signal will be heard by your listeners. The microphone has a select switch on its shaft for ON/OFF. Should you need to cough, or discuss something without broadcasting, simply set the switch in OFF position until you need to be heard again. If you will be off the air for a few minutes, we suggest turning the transmitter to Charge in order to save battery life.

Microphone Adjustment: If you should find that speaking in a normal voice, while holding the microphone about 4 inches from your mouth does not produce a sufficient volume for listeners, there is an adjustment. Removing the transmitter system from the pack will allow you to access the small hole on the front of the unit for microphone gain adjustment. This should be done with a person listening to your transmission and you speaking in a normal voice, holding the microphone 4-6 inches from your mouth. Turn the adjust knob CLOCKWISE to increase your volume or COUNTERCLOCKWISE to decrease. This setting is made initially at the factory and should be good for most voices.

Battery Recharging: Be sure the switch labeled 'Operate/Charge' is placed in the 'Charge' position. Remove the charger from the pouch located in the front of the pack and plug it into a standard 120 VAC receptacle. Recharge time will vary depending on battery level, typically 3-4 hours. An LED indicator on the charger will light while charging and flash indicating that the charge cycle is complete. The LED located on the 'Operate/Charge' switch will NOT light when it is in the 'Charge' position.

IMPORTANT: Only use the LPB supplied Battery Charger. Use of any other charger may cause damage.

Battery Notes: The system uses a Maintenance Free Rechargeable Lead-Acid Battery. Don't short circuit the battery terminals. Ventilate when charging in an enclosed space. Keep sparks, flame, cigarettes away from the battery. Don't disassemble, shock or drop the battery. In the event electrolyte contacts skin or clothes, rinse immediately with plenty of water.

General Conditions: This is an electronic device so please treat it with some care. It should not be dropped or hit, immersed in water or exposed to extreme heat or cold.

Service: All service for these units and their components must be done by LPB. Please contact the factory with any questions or service issues at :

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