

**BURKITTSVILLE
RADIO**



WO
CODE NO.

48769

IN PARTNERSHIP WITH
BKI-AM PUBLIC RADIO

**A WISSON LEX1-14 BROADCASTER'S
TRAINING MANUAL**

Welcome to the team, Waylon!
Glad to have you on board.

:-) - Rob

BURKITTSVILLE RADIO



INTRODUCTION

Thank you for choosing the Wisson LEX1-14 Broadcast Transmitter. The LEX1-14 is sturdy, powerful machinery that is, when installed and maintained properly, sure to remain trouble-free for years to come.

Installation of your LEX1-14 must be done by a licensed professional. This reference guide is solely designed to assist you with the everyday maintenance and operation of the LEX1-14 after installation. In addition to general operational procedures, the guide includes handy reference pages on the NATO Phonetic Alphabet and troubleshooting solutions.

Please read this guide thoroughly before operating your device. If you seek information not covered in this guide, please refer to the full instructional manual supplied with receipt of the product and/or contact the nearest authorized distributor.

Information provided in this guide is subject to change over time and does not represent a commitment on the part of Wisson.

Furthermore, Wisson does not assume liability for loss or damage caused by errors, regardless of whether such issues arise from negligence, accident, or any other cause.

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NATO Phonetic Alphabet

LETTER	TELEPHONY (PRO)	LETTER	TELEPHONY (PRO)
A	ALFA (al-fah)	N	NOVEMBER (no-vem-ber)
B	BRAVO (brah-voh)	O	OSCAR (oss-cah)
C	CHARLIE (char-lee)	P	PAPA (pah-pah)
D	DELTA (dell-tah)	Q	QUEBEC (keh-beck)
E	ECHO (eck-oh)	R	ROMEO (row-me-oh)
F	FOXTROT (foxs-trot)	S	SIERRA (see-air-rah)
G	GOLF (golf)	T	TANGO (tang-go)
H	HOTEL (hoh-tell)	U	UNIFORM (you-nee-form)
I	INDIA (in-dee-ah)	V	VICTOR (vik-tah)
J	JULIETT (jew-lee-ett)	W	WHISKEY (wiss-key)
K	KILO (key-loh)	X	XRAY (ecks-ray)
L	LIMA (lee-mah)	Y	YANKEE (yang-key)
M	MIKE (mike)	Z	ZULU (zoo-loo)
NUM	TELEPHONY (PRO)	NUM	TELEPHONY (PRO)
0	ZERO (zee-ro)	5	FIVE (fife)
1	ONE (wun)	6	SIX (six)
2	TWO (too)	7	SEVEN (sev-en)
3	THREE (tree)	8	EIGHT (ait)
4	FOUR (fow-er)	9	NINE (nin-er)

POST-INSTALLATION TUNE UP

If this is your first time operating your LEX1-14 or if a substantial amount of time has passed since the device was last in use, check the inside of the device for missing components before any voltage is applied. Ensure all of the following are true:

- All tubes are located in their appropriate sockets.
- There are no tie-down straps or foreign materials used during shipping on the inside of the device.
- Wiring is secure, and there are no broken solder connections.
- All components that may have been removed for shipping or maintenance have been (re)installed correctly.
- All bolts and screws have been brought down securely in place by hand.
- The device is well grounded, and it is tied to the main ground.
AT LEAST 2" COPPER STRAP RECOMMENDED.

In the event that your device is installed on an upper floor of a building, pay particular attention to the grounding of the equipment. Additional grounding measures can boost performance and lower infrasound output.

ALWAYS turn the device OFF before working inside. See the Turning Off the Device section for more information.

TURNING ON THE DEVICE

1. Flip the switch labeled Filament Control. A green and red light (Filament and Plate respectively) will come on as the device warms up. Once warmed, the red light will blink out. **Check back wiring FIRST**
2. Set the Plate Switch to the ON position. A green light will appear at the top right of the device, signaling that you are live on the air.
3. Check the meters to ensure proper tuning. The following meters can be adjusted by knobs of the same name:
 - a. **Filament Voltage** should read under or around 10 volts, any higher and the vacuum tubes could burn out or cause electric shock.
 - b. **Plate Current** should read under 400 milliamperes.
 - c. **R.F. Line Current** should read around 3.5 amperes.
 - d. **Plate Voltage** should read exactly 2000 volts. Finer tuning can be achieved with the P.A. Voltage tuner.
4. Tune the Band to the desired frequency.
5. Check that all lights read green before pressing the Commit button.

TURNING OFF THE DEVICE

1. Press and hold the blue button labeled Neut. until the green light in the top right shuts off.
2. Flip the Plate Switch and Filament Control into the OFF positions.
3. Allow the device to cool for at least 25 minutes before handling.

*Unplug device
when closing up
for the night*

TROUBLESHOOTING

Warning! Internal components are fragile. Avoid disassembly whenever possible and call a Wisson representative to handle substantial repairs. Do **NOT** work inside of the device while it is live. Extremely high voltage can and will result in electric shock if improperly handled.

Common Issues

- Excessive Static — Ensure there is no improper meter adjustment or bad tuning as per the Turning On the Device section above.
- Live Green Light Does Not Come On — Turn off the device and check the right side panel for the emergency switch.
- Components Are Missing — Call an authorized Wisson distributor immediately if under warranty.

Call me first. Some components have to be removed for maintenance and other circumstances.

HEALTH & SAFETY WARNINGS

- If you have a pacemaker or other electrical medical device, consult your doctor before interacting with this product.
- Unless you are a trained professional, never try to dismantle the device as this may cause short circuits, which could result in fire or electric shock.
- Using components from unlicensed third parties and vendors can cause complications and will void warranty.
- Keep the device in a well-ventilated, temperature-controlled area to prevent wear and tear on the machine.
- Do NOT use in areas where there are explosive hazards or excessive heat or moisture.

NO waiting around after dark. Especially alone.