

Troubleshooting Guide

Having trouble with the sound system?

Condition

No sound (power LED not lit):

Possible Cause

- power switch OFF
- batteries fully discharged (LED flashes briefly)

Charge indicator doesn't light:

- blown fuse

No sound (power LED lights):

- no output from source
- input cable unplugged
- input volume control low or off
- plug inserted into switched speaker output, but no speaker connected

Shortened battery life:

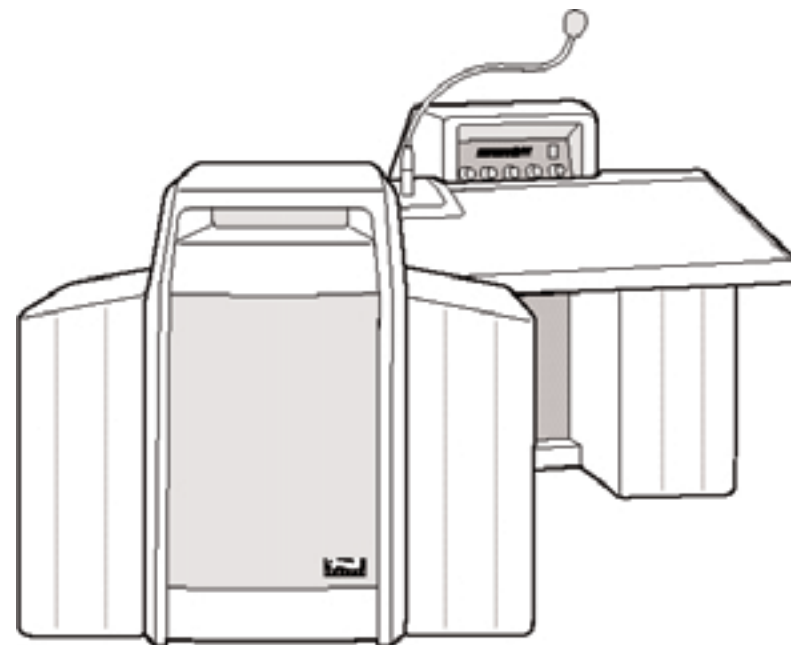
- short in external speaker cable or speaker
- total external speaker impedance $< 4\Omega$
- batteries not fully charged
- batteries need replacement

Distorted sound:

- poor connection on input cable
- input signal too strong

Excessive hum or noise:

- input cable not shielded
- not using balanced microphone



ENSIGN Owner's Manual



ANCHOR Audio, Inc. (310) 784-2300
100-0011-000 / Revision E, 06/97



Important Safeguards



CAUTION: To reduce the risk of electric shock, do not remove the cover. No user-serviceable parts inside. Refer servicing to qualified personnel.

WARNING: To prevent fire or electric shock, do not expose this equipment to rain or moisture.



ATTENTION: Pour éviter les risques de choc électrique, ne pas enlever le couvercle. Aucun entretien de pièces intérieures par l'utilisateur. Confier l'entretien au personnel qualifié.

AVIS: Pour éviter les risques d'incendie ou d'électrocution, n'exposez pas cet article à la pluie ou à l'humidité.

EXPLANATION OF GRAPHICAL SYMBOLS

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to humans.

The exclamation point, within an equilateral triangle, is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

EXPLICATION DES SYMBOLES GRAPHIQUES

Le symbole éclair avec point de flèche à l'intérieur d'un triangle équilatéral est utilisé pour alerter l'utilisateur de la présence à l'intérieur du coffret de "voltage dangereux" non isolé d'ampleur suffisante pour constituer un risque d'électrocution.

Le point d'exclamation à l'intérieur d'un triangle équilatéral est employé pour alerter les utilisateurs de la présence d'instructions importantes pour la fonctionnement et l'entretien (service) dans le livret d'instruction accompagnant l'appareil.

DATE OF MANUFACTURE

The date of manufacture of this Anchor Audio product can be determined by the seven or eight digit serial number code. The fifth and sixth digits from the right denote the year, the seventh digit (letter) from the right denotes the month (A=Jan, B=Feb, etc.) Example: "XD960083" states that the unit was manufactured in April of 1996. An "X" may or may not exist as the eighth digit (letter) and has no significance in the serial number or date code.

Specifications

Ensign TL-2A

Rated power output:	70 watts @ 4 Ω continuous 110 watts @ 4 Ω dynamic
Max SPL @ rated power:	115 dB @ 1 meter

Ensign TL-2B

Rated power output:	50 watts @ 4 Ω continuous
Max SPL @ rated power:	113 dB @ 1 meter
Batteries (two):	12 Volt rechargeable, 2.6 AH

General

Frequency response:	100 Hz –10 kHz \pm 4dB
Speaker type (two):	5" high-efficiency cone speakers
Microphone type:	Miniature electret, unidirectional pickup pattern

Inputs

Microphone inputs (two):	Lo-Z (1 k Ω), balanced, XLR phantom powered, 12 VDC / 6.8 k
Line input (pre fader):	Hi-Z (10 k Ω), unbalanced, 1/4"-phone
Sensitivity for rated output:	
Microphone:	-52 dBV (2.5 mVrms)
Line:	-14 dBV (200 mVrms)

Outputs

Line out (post fader):	Lo-Z (< 1 k Ω), buffered, 1/4"-phone
Speaker out, switched:	4 Ω minimum, 1/4"-phone
Speaker out, unswitched:	8 Ω minimum, 1/4"-phone
AC power requirements:	110-125 VAC, 50/60 Hz
Export model:	208-240 VAC, 50/60 Hz (TL-2A: 120 watts max, 30 watts idle. TL-2B: 50 watts max)

Dimensions (folded, HWD): 21 x 24 x 10", 53 x 61 x 25 cm

Weight:

TL-2A:	34 lbs, 15.3 Kg
TL-2B:	39 lbs, 17.5 Kg

Specifications subject to change without notice.



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Thank you for choosing an Anchor Audio portable sound system. Our products incorporate state-of-the-art design and the finest quality of materials and workmanship. We're proud of our products and appreciate the confidence which you have shown by selecting an Anchor system.

I hope you'll take a few of minutes to review this manual. We've incorporated several unique features into our products, and your knowledge of how to use them will enhance the performance and your enjoyment of the system.



David Jacobs, President on behalf of all Anchor employees



Quick Use Guide

The Ensign tabletop lectern is a portable, self-contained lectern with its own built-in sound system. The operating instructions below cover the basic functions of the Ensign

Here's how easy it is to use:

1. Place the Ensign on a table or similar surface.
2. Raise the top, swing the support columns inward, then snap the top down into place.
3. Remove the microphone from the column storage compartment and plug it into the XLR mic input jack on the tabletop.

For **AC operation**, plug the AC power cord into the back panel and into a grounded 115 volt outlet (220 volt outlet for export models).

For **battery operation** (TL-2B), make sure the battery is charged (see page 8.)

4. Set all input volume controls to minimum, then turn the Ensign ON. Increase the lectern mic volume control (*blue knob*) while speaking into the microphone until desired volume is reached.
5. Adjust tone controls for desired sound quality.

For more detailed instructions, see the "Operation" section beginning on page 6.

Problems?
Consult the
troubleshooting
section on the
back page of
this manual.



Getting Started

Inspection and inventory of your system

Check unit carefully for damage which may have occurred during transit. Each Anchor product is carefully inspected at the factory and packed in a special carton for safe transport.

Inventory

- Ensign tabletop lectern
- Gooseneck microphone (in storage compartment)
- AC power cord (in storage compartment)
- Warranty registration card

All damage claims must be made with the freight carrier.

Notify the freight carrier immediately if you observe any damage to the shipping carton or product. Repack the unit in the carton and await inspection by the carrier's claim agent. Notify your dealer of the pending freight claim.

Returning your unit for service or repairs

Should your unit require service, contact your dealer or our Customer Service Department at (310) 784-2300 to obtain a Return Authorization (RA) number. All shipments to Anchor must include an RA number and must be shipped prepaid. *C.O.D. shipments will be refused and returned at your cost.*

Warranty registration

Please fill out the warranty card and return it with a copy of your invoice to Anchor's Customer Service Department. This will activate your limited two year warranty.

Save the shipping carton and packing materials. They were specially designed to ship your unit safely.



Accessories

BLT 'QuikStand' Folding Base/Stand

QuikStand is a lightweight collapsible base that turns Ensign into a floor-length lectern. It's made of durable ABS plastic and folds to 27 x 25 x 8".

TLC-II Padded Cover

Heavy duty Cordura nylon cover with fabric-covered foam interior (1/2"-thick). Built-in storage compartment.

P-3001 Ensign Companion Speaker

The P-3001 is an unpowered companion speaker for use with the Ensign. Requires speaker cable such as Anchor's SC-50.

MIC-90 Handheld Microphone

Anchor's dynamic, balanced, low impedance microphone with a unidirectional pick-up pattern. Comes with a 20' cable and mic clip.

BWK-II 'Mini-Mix' Input Mixer

Input mixer with four balanced Lo-Z mic inputs; one switchable to Hi-Z line, line or mic level output. Requires 12 Volt DC from Ensign via EX-25LDC cable (below).

EX-25LDC Patch Cable

Cable connects both audio and DC power between Ensign and Mini-Mix. Length: 25 feet.

AK-TL2 Accessory Kit for Ensign

Includes BLT/Quikstand folding base and TLC-II cover.

SWR-II Wireless Receiver

External wireless receiver with AC adapter. Requires microphone/transmitter and DCM interconnect cable.

WH-58 Wireless Handheld Mic/Transmitter

Handheld wireless microphone for use with SWR-II receiver.

WB-II Wireless Body-pack Transmitter

Detachable body-pack transmitter for use with SWR-II receiver. May be ordered with lapel, headband or CollarMic microphone.

DCM Wireless Interconnect Cable

Connects DC power from sound system to receiver and audio output from receiver to sound system input.

Battery Operation (Model TL-2B)



About the battery protect circuit

The automatic battery protection circuit turns the unit off when the batteries approach their 'critical discharge point' to prevent damaging the batteries.

When the Battery LED begins flashing, this indicates the batteries are low and the unit will shut off in 15 - 30 minutes.

Expected service time from the batteries

The service time per charge will vary depending on the volume level, type of program usage and whether a companion speaker is used with the system.

Service time per charge (continuous music input).

medium volume	8 to 12 hours
full volume (before clipping)	3 to 6 hours

Charging the batteries

Plug the power cord into an AC outlet (the Charger LED will light, indicating the batteries are being charged). The charger will automatically charge the batteries for optimum recovery.

When the batteries are charged (about 8 hours), the Charger LED will flash. This indicates the charger has switched to the maintenance charge rate—the charger may be left plugged in to maintain a full charge without damaging the batteries.

IMPORTANT: For longer battery life, always store the unit with the battery in a fully charged condition or with the charger plugged in.

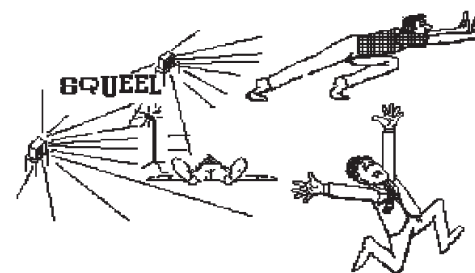


The AC power cord may be plugged in for continued use while also recharging batteries.

Feedback Information

What causes feedback?

Feedback is a ringing, howling, or shrill sound that is self-generated by the sound system. It is the result of sound from the speakers being picked up by the microphone(s) in use and then re-amplified by the system. This can form a self-sustaining loop that can damage the sound system if allowed to continue.



How to prevent feedback

ALWAYS STAND BEHIND THE SPEAKER WHEN USING A MICROPHONE.

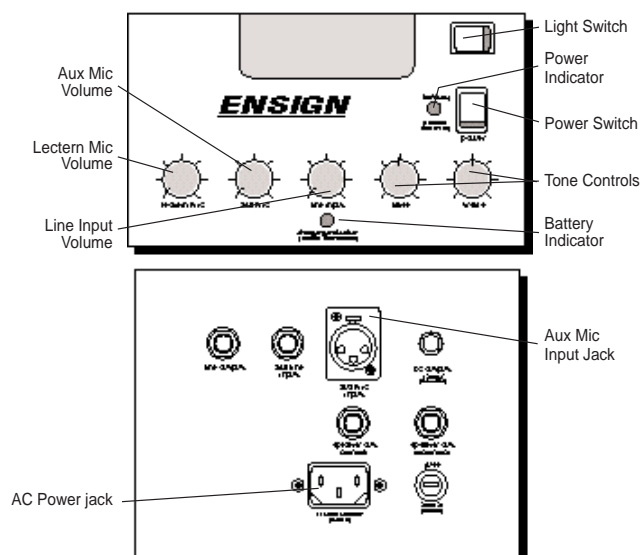
CAUTION: Feedback can damage your equipment and may be hazardous to your hearing. To avoid feedback, always make sure volume controls are at minimum before turning unit on. If feedback occurs, immediately reduce the volume.

Try using auxiliary speakers.

For large audiences, the addition of an auxiliary speaker driven by the Ensign will provide broader and more even sound coverage. (See page 8 for more information about using the Ensign's external speaker outputs.)

Operation

Ensign Control Panels



Ensign upper and lower control panels.

Operating the sound system

1. Place the Ensign on a table or Anchor's optional "QuikStand" base. Raise the top, swing the support columns inward, then snap the top down into place.
2. Remove the gooseneck microphone from the column storage compartment and plug it into the lectern mic input XLR jack on the tabletop.

For **AC operation**, plug the AC power cord into the back panel and into a grounded 115 volt outlet (220 volt outlet for export models).

For **battery operation** (TL-2B), make sure the battery is charged (see page 8.)

3. Set all input volume controls to minimum, then turn the Ensign ON. Increase the lectern mic volume control (*blue knob*) while speaking into the microphone until desired volume is reached.
4. Adjust tone controls for desired sound quality.

Operation

Auxiliary Microphone Input

The auxiliary mic input is an XLR jack on the lower panel. The corresponding volume control (Aux Mic) is on the upper panel. The input is balanced, low-impedance, and has phantom power for use with condenser-type microphones. *(Use only low impedance microphones with the Ensign, and preferably balanced to avoid picking up hum or other noise when using long mic cables.)*

Auxiliary Input

The line-level auxiliary input (1/4"-phone jack) is located on the lower panel, with a corresponding volume control on the upper panel. Use it for playback of a CD or tape player, musical instrument, VCR or similar audio source. The aux input can be used simultaneously with the mic inputs for a composite program output.



Line Output

The line-level output (1/4"-phone jack) provides a replica signal of the composite input signal. Use if for direct recording, or to daisy-chain additional powered sound systems to the Ensign for greater crowd coverage.

Note: All line-level connections must be made with shielded cable to avoid hum, buzzing, or radio interference.



Speaker Outputs

UNSWITCHED: Used to power an auxiliary speaker in addition to Ensign's internal speakers for greater crowd coverage. When using the unswitched output, use a speaker such as Anchor's P-3001 companion speaker.

Note: Using an auxiliary speaker with the battery-powered TL-2B will shorten the battery service time.

SWITCHED: Used to power an auxiliary speaker in lieu of Ensign's internal speakers. When a plug is inserted into the switched speaker out jack, the Ensign's internal speakers are disconnected and the amplifier power is routed to the auxiliary speaker only.

