

OWNER'S MANUAL

Integrated Vacuum Tube Amplifier

MODEL SE34i

tec•on audio

pristine soundscapes: hear better, listen more! ©

PALMDALE, CA
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tec•on audio

WELCOME & THANK YOU

Welcome and thank you for choosing the **tec•on audio** Model SE34i integrated stereo tube amplifier.

The circuitry of the Model SE34i amplifier by **tec•on audio** has been designed and customized to our own specifications to meet our very own demanding sonic performances. It is a quality product, engineered and built with choice components. The expensive point-to-point wiring technique is utilized throughout for best audio results.

Using two EL34 output tubes famous for their sonic qualities in UL mode, the Model SE34i operates in class "A" with an SRPP driver stage and low amount of negative feedback. This topology offers a **pristine soundscape**® delivering taunt sound with a wide, layered soundstage, that will amaze you with great detail and depth. As is well known to audiophiles, the sonic performance of the Model SE34i amplifier may improve after a "break-in" period.

The Model SE34i amplifier will perform best with sensitive speakers [at least 89 db/W @ 1m]. There is a wide choice of speakers available on the market. The Model SE34i amplifier has dual impedance outputs, specified for between 4 Ω and 8 Ω, allowing you the widest possible choice.

We know you will enjoy your new amplifier. ***Hear better, and listen more!*** ©

Please read this OWNER'S MANUAL carefully before operating this amplifier.

WARNING

Tube electronics uses high voltages that can cause injury or death. Never open the amplifier when the power cable is plugged in, and always wait at least 15 minutes while the speakers are still connected after turning the unit off to unplug and open the unit. Dangerous voltage may be stored in capacitors many hours after the unit has been tuned OFF.

BE CAUTIOUS! READ THE INSTRUCTIONS!

UNPACKING

Before unpacking, check if there is any damage on the carton. Open the carton from the top to avoid mishandling and breaking. Examine each part closely for signs of damage during shipment.

CHECK CARTON CONTENT: the following items are shipped together:

Amplifier Model SE34i (1 unit)

Tubes (5 pieces)

Power cable (1 piece)

Owner's Manual (1 piece)

Save the packing material for possible future use.

CAUTION:

The model SE34i can operate either under 115 V or 230 V. Please check your local voltage and set the power selection switch accessible under the chassis accordingly.

IMPORTANT:

Do not power or operate the amplifier without speakers. Do not drive the amp into a short circuit. The speakers must have an impedance of between 4 Ω to 8 Ω . The warranty will not cover damage resulting from wiring to an inappropriate load.

PHYSICAL SET- UP

Set your model SE34i in a stable location with ample ventilation. Allow clearance of a couple inches in all directions so as to allow air to flow. Do not place the amplifier directly on a carpet or any surface that will block air circulation under the amp. Place the amplifier out of reach of infants and toddlers, pets or other prying fingers! The amplifier will get HOT.

Keep liquid and moisture away from any electronics.

INSERTING THE TUBES

Because the tubes are fragile, they are normally packed separately.

First, carefully inspect the tubes to insure that they have not been damaged. Identify each tube (6X34 [2 pieces], 12AX7 [1 piece], 12AU7 [2 pieces]).

The tubes need to be inserted in their respective sockets. Align the pins and insert each tube in its respective socket according to the schematics printed on the amplifier. Pay attention to the pins alignment. Carefully insert the tip of the pins in the holes, and when all pins have been started, push firmly straight down to insure that the tube is tightly seated and connected in its socket. Keep the tubes clean.

CAUTION:

Do not attempt to turn the amp ON before all tubes are fully inserted and the input source and the speakers are connected.

CONNECTING THE SOURCE AND SPEAKERS CABLES

Input (source):

The Model SE34i has two inputs (CD & AUX). Select the suitable input sockets on the rear panel for your sound source and set the input selector to the correct position, connect the amplifier to the sound source with the signal wires. An iPod or mp3 player can be attached to the AUX source through an adapter cable.

Output (speakers):

Use high sensitivity speakers [at least 89dB/W @ 1m] of between 4 Ω to 8 Ω impedance. Select the appropriate matched impedance input. If your speakers are rated 6 Ω , you may try either the 4 Ω or 8 Ω . The sound will be “tighter” when using the 8 Ω output.

Power Supply Cable:

Make sure the power switch is OFF prior to plugging the power cable. Check local voltage and set the amplifier to the correct voltage [115V/230V] with the switch accessible under the chassis.

Notice:

Do not power the amplifier ON prior to having all cables plugged in and have double-checked all connections. Maintain polarity for the source cables and speakers connections (Red + Black) to insure that the speakers will operate in phase [test CDs or LPs are available on the market to make sure that the source plays on the correct channel and that the speakers are correctly connected in phase]. Best results require the speakers to be connected in phase.

The sound quality will obviously be affected by all the elements of the audio chain: recording and recorded medium, source, amplifier, speakers and room. We therefore recommend that you select quality inputs and quality speakers to perform with the Model SE34i.

OPERATION

Turn the volume to the minimum prior to turning the power ON.

Flip the main switch to the “ON” position. The blue LED indicates that the amplifier is powered. The tubes will glow.

Let the amp warm up for 30 sec and turn the volume up.

Enjoy the music!

NOTE:

audiophiles recognize that an amplifier “opens-up” after a “break-up” time to deliver the best sound. You may notice a widening, deepening and focusing of the sound stage after 30-50 hours of operation!

CAUTION:

if you power the amplifier down, wait at least a full minute prior to re-power ON again. Do not turn the power ON & OFF in quick succession, this may result in damage to the system.

TUBE LIFE

The vacuum tubes used on the Model SE34i should provide many years of performance. Replacement tubes can be purchased from us.

FUSE

The fuse used on the Model SE34i is the 5 x 20 mm SLOW BLOW [SLO BLO] type.

If a fuse needs replacement, unplug the amplifier power cord from the wall outlet. Open the fuse compartment located under the female power plug opening on the back of the amplifier. Use the exact same fuse type and rating. The warranty will not cover damages resulting from use of overrated fuses. [Do not use fuses rated over 2 A/250V.]

TECHNICAL SPECIFICATIONS

- output power: 2 x 8 W [8 Wpc rms]
- frequency response: 20Hz—30KHz (± 1.5 dB)
- distortion ratio: $\leq 3\%$ (440hz)
- input sensitivity: 450mv---550mv
- output impedance: 4 Ω and 8 Ω
- input impedance: 250k Ω
- size: 29(L) x 26(W) x 16(H) CM [11" (L) x 10" (W) x 6" (H)]
- power consumption: 100W
- S/N ratio: 90dB
- net weight approx. 13kg [28 lbs]

Specifications are subject to modifications without notice or obligation

TROUBLESHOOTING

Reliable performance will be obtained from the Model SE34i when used according to this user's manual.

Should a problem occur, the following troubleshooting table can help you determine how to deal with it.

Trouble		Cause	What to do
no sound	no light	power supply not connected correctly	check the power supply cable and connections
		broken fuse	change the fuse
	light	the volume is set at the minimum	turn up volume to the suitable level
		no signal	check input connections and sources
noisy		input signal cable not connected	check input cables connections
		faulty electronics/tubes	contact dealer
		signal wires are too close to power supply cable, or other cables.	arrange input wires apart from other cables
no stereo focus/imaging		speakers connected out of phase	connect speakers cables according to color

WARRANTY

Our products are individually tested at the factory and meet our specifications before being packed and sent to you.

Products sold by **tec•on audio** or its authorized dealers are covered by a limited ninety (90) day labor and parts warranty [excluding vacuum tubes] counted from the shipping date protecting you against defects in materials and workmanship.

Fill and keep the warranty card attached to this warranty statement, along with a copy of the original sales receipt as proof of the original date of purchase. Only one card is issued with each unit and with its serial number.

Under the terms of this warranty, defective parts will be repaired or replaced without charge [except vacuum tubes] at our location, or at a location determined by us at the time of repair. Return merchandise via prepaid, insured freight, method and carrier to be determined by **tec•on audio**. All returns to us must be made in the original packing, accompanied by a **Return Authorization Number (RAN)**, the warranty card, proof of purchase, and a written description of the defect, and must be shipped to us via insured freight at the customer's own expense. Charges for unauthorized services and transportation costs are not reimbursable under this warranty. You will be responsible for all round trip shipping charges and insurance.

This warranty does not apply to losses or damages occurring during shipping. This warranty does not cover cosmetic damage or any damage that results from normal use [wear and tear], negligence, misuse, abuse, tampering, installation error, connection to an improper voltage, accident, improper maintenance, alterations, modifications, lightning, power surges, or acts of God. Use of any parts other than **tec•on audio** may void this warranty. Any physical damage to the unit other than what is deemed normal wear & tear will void the warranty.

This warranty does not cover the cost of parts and labor, which would otherwise be provided without charge by **tec•on audio** under our standard warranty.

This warranty applies only to consumer use of this product. This warranty applies only to the original purchaser of this product from **tec•on audio** or one of its authorized dealers. Valid only in the USA.

We assume no liability for property damage or any incidental or consequential damage whatsoever which may result from failure of this product.

YOUR RIGHTS

SELLER MAKES NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, AND SELLER DISCLAIMS ANY WARRANTY OF ANY KIND, INCLUDING WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, EXCEPT IN JURISDICTIONS THAT PROHIBIT SUCH DISCLAIMERS OF IMPLIED WARRANTIES.

YOU MAY HAVE OTHER RIGHTS THAT VARY FROM STATE TO STATE.

WARRANTY CARD

Model: _____

Serial No: _____

Invoice: _____

Date of Purchase: _____

Customer Information

Name: _____

Address: _____

ZIP code: _____

Country: _____

Reseller:

NOTE: This portion of the Warranty Card MUST BE retained by the Customer. It must be produced when requesting after-sales service from an authorized **tec•on audio** service center.

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