



MODEL ETR

DUAL CHANNEL AM/FM TUNER

OWNERS MANUAL

ETR

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NOTE: At initial turn - on (i.e. for the first time) the Mute Off / Mono function is selected by the ETR. To select stereo operation, push the Mute Off / Mono button once at initial installation. This set-up will not have to be repeated unless the ETR mains supply is interrupted for more than a week or so

INTRODUCTION

Congratulations on your PERREAUX Model ETR purchase. To realise the full potential of the unit, you need to appreciate all aspects of its operation.

Before installing the ETR into your system, read the entire manual carefully. Please try to understand every detail by familiarising yourself with the controls and features as you read. You will find it easier to install using the relevant sections of this manual as a reference.

We have attempted to explain every feature and operational facet clearly and concisely. Your Perreaux dealer will be happy to assist if you encounter any unforeseen problems.

Read this manual, install your ETR correctly and realise the sonic significance of your investment in Perreaux.

Perreaux products are designed to provide the utmost in sonic realism and electronic reliability with a functional yet elegant

appearance, this reflects the care and craftsmanship applied during all stages of construction.

To maintain the consistently high quality that you expect from us, and we expect from ourselves, Perreaux products are essentially hand-crafted.

We maintain the human link throughout, from design and construction, through to the ultimate test, your music, your system, your ears.

Because we listen to our products, we know that with your PERREAUX you will discover many more of the musical secrets we strive to reveal.

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SAFETY INSTRUCTIONS

- 1. Read Instructions**

All safety and operational instructions should be read before the ETR is operated. Keep the Owners Manual in a safe place for future reference.
- 2. Follow Instructions**

All installation, operation and other instructions should be followed.
- 3. Warnings**

All warnings on the ETR and in the Owners Manual should be strictly adhered to.
- 4. Water and Moisture**

The ETR should not be used near water, for example near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, near a swimming pool, etc.
- 5. Rack / Wall / Ceiling Mounting**

The ETR should be rack mounted only in a heavy duty rack or stand that is recommended for audio equipment use. Mounting to a wall or ceiling should be via a heavy duty bracket or shelf designed for audio equipment use.
- 6. Heat**

The ETR should be situated away from heat sources such as radiators, stoves, or other appliances that produce excessive amounts of heat.
- 7. Power Sources**

The ETR should be connected to a mains power supply only of the type described in the operating instructions, or as marked on the rear of the ETR.

8. Power Cord Protection

The mains power supply cord should be routed so that it is not likely to be walked on or pinched by items placed on or against it. Pay particular attention to the cord at power points, convenience receptacles, and the point where it exits from the ETR.

9. Cleaning

When cleaning 'E' series product use luke warm water with a few drops of a mild non caustic detergent.
DO NOT USE SOLVENTS

10. Non-use Periods

The mains power cord of the ETR should be unplugged from the mains/line outlet when the unit is to be left unused for long periods of time.

11. Object and Liquid Entry

Care should be taken so that objects and/or liquids do not accidentally fall inside the unit.

12. Damage Requiring Service

The ETR should be serviced by qualified service personnel if any of the following occur :

- a. The mains power-supply cord, and/or plug have been damaged
- b. Objects have fallen, or liquid has been spilt into the ETR
- c. The ETR has been exposed to rain and/or excessive moisture
- d. The ETR does not appear to operate normally, or exhibits a marked change in performance
- e. The ETR has been dropped, or the chassis damaged.

13. Servicing

The user should not attempt to service the ETR beyond those means described in the owners manual. All other servicing should be referred to qualified service personnel.

IMPORTANT INFORMATION

Always make sure the volume control of your preamplifier or source unit is set to zero and the mains/line supply disconnected from your ETR prior to performing any switching functions or connection alterations of any type to your ETR (other than tuning, pre-setting of stations etc. during which volume should be at a low level) or to any other part of your entire system. This caution also applies to the normal use of your Compact Disc player, Cassette Deck, etc.

REMOTE CONTROLLER

The ETR is primarily designed for operation utilising the supplied 29 button Universal infra-red remote controller. Preparing the controller for operation only requires removal of the battery housing on the back of the controller and installing the 2x AAA batteries provided.

Control of the ETR achieved via 17 buttons either coloured blue or labelled blue to the right of the button.

Note: Press the blue button labelled 'TU' to engage the TUNER code-set

The following is a list of the remote controller buttons and description of their functions:

Also Refer FRONT PANEL DISPLAY & CONTROLS below.

BAND (Located on the white button labelled RND)

The Band button is located both on the front panel and remote controller. Depressing this control alternately switches between AM and FM bands

TUNE + UP (located on the white CD next track button)

TUNE - DOWN (located on the white CD previous track button)

Tuning control buttons are located on both the remote control and front panel. These controls allow for manual search of AM and FM frequencies, up or down the band for suitable stations or auto search up or down if this option is selected (see AUTO TUNING below)

AUTO TUNING (Located on the white CD A=B button)

The auto tuning or scan button is located on the remote controller and front panel and is enabled or disabled by repeated selection of this button. When auto tuning is selected 'AUTO' is illuminated on the front panel display. Auto tuning operates with the tuning up / down buttons enabling the tuner to scan for suitably strong stations up or down the selected AM or FM band. When a signal is sensed the tuner will lock-on allowing the user to either pre-set the station via a memory setting or continue searching by repeated use of the tune up / down buttons. This feature is particularly useful when pre-setting memory channels or for surfing the selected band.

DIRECT STATION PRESET BUTTONS 1 – 9 (White numbered buttons)

The Channel Preset buttons are labelled 1 to 9. These buttons allow direct selection of pre-programmed station channel pre-sets and are also used in the initial station pre-setting procedure (see MEMORY section in manual). For selection of channels 1 through 10 simply point the remote towards the tuner front panel and depress the channel number required. For channels 10 through 30 depress the first digit and second digit within 5 seconds.

FRONT PANEL DISPLAY & CONTROLS

Whilst the ETR is primarily designed for operation utilising the supplied remote controller, there are however some basic and seldom used controls on the front panel - the following is a list of the front panel controls provided and description of their functions: (Also Refer REMOTE CONTROLLER sections above).

- REMOTE SENSOR WINDOW

This window is located to the left beside the buttons of the front panel indicator panel and houses the remote sensor. Ensure this area is not covered in any way as this may inhibit the remote controls performance.

- BAND BUTTON

The Band button is located both on the front panel and remote controller. Depressing this control alternately causes the ETR to switch between AM and FM bands

- MONO BUTTON

The Mono control button is not replicated on the remote control. It is designed to enable the ETR to receive weak signal strength stations. Operation of this mode will defeat

the muting circuitry and produce a mono output signal. (The muting circuitry employed in the ETR is designed to remove unwanted hiss and spurious noise).

- MEMORY BUTTON

The Memory control button is not replicated on the remote control however this control in conjunction with the remote controller enables pre-setting of up to 30 AM or FM stations, directly accessible from the remote control. The instructions for setting up pre-set stations are as follows -

a) Select the band AM or FM you wish to select a radio station from.

b) Select a station you wish to pre-set using the tuning buttons on the remote control or front panel in either manual or auto tuning modes.

c) Decide which channel (pre-set) number to assign to the station (We will use channel 11 for this example).

d) With the remote in one hand, push the Memory button on the ETR front panel at which time the Memory light will illuminate.

e) Point the remote at the ETR front panel and depress the 1 button then release it. Then depress the number 1 button again within 5 seconds and release it at which time the display will indicate 'CH11' and the 'MEMORY' light will extinguish - CH11 is now pre-set.

f) To pre-set further channels repeat as above.

- TUNING BUTTONS ^ (Up) v (Down)

Tuning control buttons are located on both the remote control and front panel. For a

description of their operation refer to TUNING in the REMOTE CONTROLLER section above (see also AUTO TUNING above).

- AUTO BUTTON

See Auto Tuning section above.

- DIGITAL DISPLAY

The fluorescent display is located on the front panel of the ETR and indicates the following:

Frequency band (AM or FM)

RF Level (Signal strength)

Frequency

Auto (If auto tune function is selected)

Memory (If memory function is selected)

Stereo (if receiving a stereo broadcast)

Tuned (if tuned to a station)

Ch— (# of a memorised station pre-set)

REAR PANEL CONNECTIONS / LABELS

The following user connections and labels are situated on the rear panel of the ETR - Please ensure all warnings are read, noted and adhered to.

- SERIAL NUMBER LABEL

All Perreaux units are allocated a unique serial number which are recorded at the factory against build details. If you should require information about your unit, providing the serial number will help achieve a prompt reply. Keep a copy of all your serial numbers in a safe place. The ability to identify and prove ownership can be very useful.

- MAINS/LINE VOLTAGE LABEL

The voltage label indicates the mains/line voltage the unit will accept. Always check this setting when first installing your ETR. A variance of +/- 5% above or below that

voltage indicated is acceptable. Contact your Perreaux dealer for any voltage adjustment and updating of this label.

- FM ANTENNA SOCKET

This socket is for the connection of the FM antenna provided. The antenna should be extended and positioned for the best reception however it should be noted that superior performance will be achieved using a professionally installed outdoor antenna.

NOTE: Outdoor antenna's can be dangerous if incorrectly installed and through incorrect earthing - we recommend using the services of a registered contractor for outdoor antenna installation.

- AM / GROUND ANTENNA SOCKETS

These sockets are for the connection of the AM loop antenna provided. Again this antenna should be positioned for the best reception. A mounting clip is provided on the rear panel to hold this antenna. It should be noted that the inherent performance of AM signal broadcasts is not of high fidelity and can be noisy, hence the reason for the popularity of FM broadcasts.

- LEFT / RIGHT OUTPUT SOCKETS

These are high quality gold plated RCA type sockets for the connection of the ETR to a pre or integrated amplifiers TUNER input. When connecting the ETR to auxiliary equipment terminate the interconnect cables with a red plug for the right channel and white, black or blue for the left channel. These are the most commonly accepted colour coding combinations in use internationally to help maintain channel and phase integrity i.e. left to left, right to right, positive to positive, and negative to negative.

An initial set of interconnects is provided however we recommend substituting higher

quality cables at your earliest convenience for improved fidelity.

- MAINS/LINE INPUT RECEPTACLE

This receptacle accepts the female end of the mains power cord. For more information regarding MAINS/LINE VOLTAGE and connection see the relevant sections.

INSTALLATION AND OPERATION PROCEDURE

The Perreaux Tuner employs a PLL synthesiser for easy and accurate tuning. Tuning frequency is visible on the digital display, and you can tune in to the desired station very accurately. With the units memory circuit, you can pre-set station memory tuning, letting you recall a stored frequency instantly with a single tap of a button.

One station can store one AM or one FM station in its memory; a total of 30 AM or FM stations can be stored.

Before commencing operation, check to make sure all antenna preamplifier and power connections are properly made.

- Set the volume control on the control amplifier to a low position and selection switch to the tuner position.

- Turn on the ETR, the control amplifier and lastly the power amplifier (if applicable).

- Depress the FM or AM Band button on the remote controller to select the band required.

- Tune in to the desired station(See relevant sections TUNING and AUTO TUNING.

-
- Raise the volume to the desired level and enjoy listening

NOTE: If you have turned off the ETR and turn it on again, it will tune into the station frequency to which it was tuned immediately before turn-off.

INSTALLATION AND OPERATION PRECAUTIONS

Precautions which should be observed during installation and operation are:

- Leave sufficient clearance between the top of the ETR and the bottom of equipment above if installed in a rack or stack.

- Always operate in a horizontal position.

- Install away from excessive heat and moisture. Do not allow the ambient temperature around the ETR to exceed 40° Celsius (105° Fahrenheit.)

- Check the mains/line voltage stated on the rear panel of your .ETR Supply voltage must be within +/- 5% of the stated voltage.

- Connect all your hi-fi equipment to the same mains/line source to avoid possible earthing problems.

- The protection fuses for the ETR are internal and not user serviceable.

- Always contact an approved PERREAUX dealer if any changes are noted in performance.

- **Always** ensure the volume control on your control amplifier is set low before making any

connection alterations or when changing input sources. The reason for this precaution is to protect your loudspeakers against bursts of very high powered signals from high level sources such as a CD player or whilst tuning the ETR between stations when high level spurious noise can be present. Situations can arise when playing a low output cassette with a fairly high volume control setting then switching to CD or Tuner where a high level of signal may be present at the source input sockets. The resulting burst of high power may damage your speakers or cause damage in some power amplifiers.

- Make all connections logically and carefully, checking that you are maintaining channel integrity.

- Install your Tuner close enough to your control amplifier to avoid stretching or extending your interconnect leads.

- Keep your interconnect cables and antenna leads away from all mains / line cables and speaker leads.

MAINS / LINE VOLTAGE CHANGE

It is important that the ETR be operated from the correct mains/line voltage. This unit is factory set for the voltage applicable to the original country of destination. The correct operating voltage is indicated by the voltage label on the rear panel (see section MAINS LINE VOLTAGE LABEL).

The ETR will operate satisfactorily within a voltage variation of up to +/- 5% of that voltage at which the unit has been set.

If you require the voltage setting to be altered, e.g. relocation to another area, city or country, or extraordinarily high or low voltages, contact your Perreaux dealer. This

modification can only be performed by qualified service personnel.

NOTE : Always ensure this unit is disconnected from the Mains/Line supply before any covers are removed

Any modifications to the mains/line voltage setting within your Perreaux product may only be carried out by a approved Perreaux service agent. Failure to recognise this warning will void any warranty.

MAINS / LINE FUSE

The Perreaux ETR is equipped with internal mains/line fuses which are not user serviceable. These fuses do not usually blow without a reason. Any doubts about fuse failure should be conveyed directly to your Perreaux dealer.

NOTE: Always ensure your ETR is disconnected from the mains/line supply if attempting to change the mains/line fuse.

SPECIFICATIONS
ETR AM / FM STEREO TUNER

FM SECTION (75 ohm antenna)

Usable Sensitivity	14.2 dBf
50 dB Quieting Sensitivity	20.2 dBf
Mono	45.3 dBf
Stereo	
Signal to Noise ratio (@ 65 dBf)	73 dBf
Mono	70dBf
Stereo	
Harmonic Distortion (@ 65 dBf)	0.2%
Mono	0.3%
Stereo	
Frequency response	10Hz-15kHz \pm 3dB
Stereo separation (100 Hz / 1 kHz / 10 kHz)	40 dB / 45 dB / 35 dB
Output level	1.0V
Alternate channel selectivity (\pm 400kHz)	47 dB
Capture ratio	2.0 dB
Spurious Response ratio	90 dB
Image Rejection ratio	80 dB
IF Rejection ratio	80 dB
AM suppression ratio	55 dB
Antenna input impedance	75 ohms

AM SECTION (Loop antenna)

Usable Sensitivity	500uV/m
Selectivity	25 dB
Signal to Noise ratio	40 dB
Image rejection ratio	45 dB
Harmonic Distortion	0.5%
Output Level	500mV
Mains Voltages	115 volts AC 50/60 Hz 220/230/240 volts AC 50/60 Hz
Power Useage	12 watts
Weight	7.0kg (15.4lb)
Dimintions	425 (w) x 88 (h) x 315 (d) mm 16.7" (w) x 3.5" (h) x 12.4" (d)

PERREAUX INDUSTRIES LTD
RESERVES THE RIGHT TO CHANGE
SPECIFICATIONS FOR THIS PRODUCT AT
ANY TIME.

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