TLP 1 OPERATING MANUAL

A C T H E M



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SAFETY PRECAUTIONS

READ THIS SECTION CAREFULLY BEFORE PROCEEDING!







WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowpoint within an equilateral triangle warns of 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 persons.



The exclamation point within an equilateral triangle warns users of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE AND OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHOULD NOT BE PLACED ON THIS PRODUCT.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

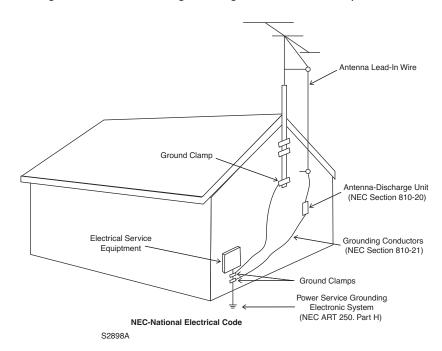
CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE THE FUSE ONLY WITH THE SAME AMPERAGE AND VOLTAGE TYPE. REFER REPLACEMENT TO QUALIFIED SERVICE PERSONNEL.

WARNING: UNIT MAY BECOME HOT. ALWAYS PROVIDE ADEQUATE VENTILATION TO ALLOW FOR COOLING. DO NOT PLACE NEAR A HEAT SOURCE, OR IN SPACES THAT CAN RESTRICT VENTILATION.

IMPORTANT SAFETY INSTRUCTIONS

- 1. Read Instructions All the safety and operating instructions should be read before the product is operated.
- 2. Retain Instructions The safety and operating instructions should be retained for future reference.
- 3. **Heed Warnings** All warnings on the product and in the operating instructions should be adhered to.
- **4. Follow Instructions** All operating and use instructions should be followed.
- **5. Cleaning** Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp, soft cloth for cleaning.
- **6.** Water and Moisture Do not use this product near water for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
- 7. Accessories Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

- 8. Ventilation Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
- 9. Power Sources This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
- 10. Grounding and Polarization This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- 11. Power-cord Protection Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
- 12. Outdoor Antenna Grounding If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to the proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.



- 13. Lightning For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable systems. This will prevent damage to the product due to lightning and power-line surges.
- 14. Power Lines An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- **15. Overloading** Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

- **16. Object and Liquid Entry** Never push objects of any kind through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Do not expose this product to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the product.
- **17. Servicing** Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- **18. Damage Requiring Service** Unplug this product from the wall outlet and refer servicing to qualified personnel under the following conditions:
 - When power-supply cord or plug is damaged.
 - If liquid has been spilled, or objects have fallen into the product.
 - If the product has been exposed to rain or water.
 - If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will require extensive work by a qualified technician to restore the product to its normal operation.
 - If the product has been dropped or damaged in any way.
 - If the product exhibits a distinct change in performance this indicates a need for service.
- 19. Replacement Parts When replacement parts are required, be sure the technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- **20. Safety Check** Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
- 21. **Heat** The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.



RECYCLING AND REUSE GUIDELINES (Europe)

In accordance with the European Union WEEE (Waste Electrical and Electronic Equipment) directive effective August 13, 2005, we would like to notify you that this product may contain regulated materials which, upon disposal, require special reuse and recycling processing. For this reason Paradigm Electronics Inc. (the manufacturer of Paradigm speakers and Anthem electronic products) has arranged with its distributors in European Union member nations to collect and recycle this product at no cost to you. To find your local distributor please contact the dealer from whom you purchased this product or go to our website at www.paradigm.com.

Please note that only the product falls under the WEEE directive. When disposing of packaging and other shipping material we encourage you to recycle through the normal channels.

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Thank you for purchasing the Anthem TLP 1 Preamplifier • Tuner.

Anthem Electronics has been manufacturing high-quality, high-end audio equipment for over a decade. In that time, Anthem has built an enviable reputation for products that can recreate the passion a music lover experiences when attending a live musical performance, or the thrilling sound a movie buff experiences in the very best movie theaters. Anthem equipment allows audiophiles to almost "be there" each and every time they sit and enjoy music or home theater in the comfort of their home. Anthem provides all this with the highest level of craftsmanship, sophisticated circuit designs, superior quality parts and materials, modern intuitive ergonomics, and stylish industrial design.

Although Anthem products sound great "right out of the carton", they will sound even better after they are thermally stabilized. We therefore recommend that you operate this product for a period of time before doing any critical listening.

The TLP 1 is a state-of-the-art stereo preamplifier with built-in FM • AM Tuner, Record output with independent input selection, and built-in crossover with high-pass and low-pass outputs.

1 RECEIVING AND UNPACKING THE TLP 1

The TLP 1 is shipped in a reinforced shipping box. Check that you have received everything in the Packing List below and report any discrepancies to your dealer as soon as possible. **Keep the invoice that you received from your authorized Anthem dealer at time of purchase — without it, service cannot be given under warranty.**

1.1 PACKING LIST

- TLP 1
- Remote Control
- · 2 'AA' Batteries
- Power Cord
- FM Antenna
- 75-ohm to 300-ohm FM Antenna Adapter
- AM Loop Antenna
- Operating Manual

1.2 IMPORTANT SAFETY INSTRUCTIONS



- The Front Panel power switch is secondary only; it does not disconnect the TLP 1 from the AC power line.
- Failing to comply with any safety instruction, precaution, or warning in this Operating Manual is in direct violation of the standards of design, manufacture, and intended use of the product.
- Anthem, Sonic Frontiers International, our agents, and any related party assume no liability whatsoever for the user's failure to comply with any or all of these requirements.

1.2.1 BEFORE OPERATING YOUR TLP 1

- Do not connect power to the TLP 1 if there are signs of damage to its exterior.
- Do not install in an unstable location or in an equipment rack that may be at risk of collapsing. Do
 not mount to a wall or from a ceiling, or in any way that poses risk of injury.
- Allow at least 6 inches of unobstructed air space above the ventilation slots in the top cover of the
 amplifier. Do not block any ventilation openings. Do not obstruct bottom vents by removing the
 rubber feet or operating the amplifier directly on a carpet, sofa, or similar surface.

1.2.2 SUPPLY POWER REQUIREMENTS

The TLP 1 operates from a single phase AC power source that supplies between 105V and 130V at a frequency of 60 Hz. It cannot be changed from 120V to 240V operation.

1.2.3 IN-USE NOTICES

- Use only the power supply cord with double insulation as supplied.
- Disconnect the amplifier's power cord before connecting or disconnecting any components.
- Do not remove the top cover.
- Do not alter or modify the amplifier in any way.
- Rail fuses are not a user serviceable item.

1.3 PACKING MATERIALS

Retain the shipping box and all packing material. They are custom designed to prevent shipping damage from occurring. Do not ship or transport the TLP 1 in anything other than the original box and packing material.

2. **CONNECTIONS** AND LAYOUT

With your TLP 1 in front of you, browse through the illustrations in this section to see several quick system hookup options. It's as simple as following the lines in the connection diagrams to and from each component.

2.1 QUICK START GUIDE – Before you start, make sure all components are unplugged.

To connect a CD player, DVD player, TV, VCR, amplifier, and powered subwoofer to the TLP 1:

• CD Player to TLP 1 – see diagram in section 2.3.1

Connect the L/R audio output of the CD player to Analog Audio-In/CD on the TLP 1.

• DVD Player to TLP 1 – see diagram in section 2.3.2

Connect the L/R audio output of the DVD player to Analog Audio-In/DVD on the TLP 1.

• Satellite Receiver to TLP 1 – see diagram in section 2.3.2

Connect the L/R audio output of the receiver to Analog Audio-In/SAT•AUX on the TLP 1.

• TV to TLP 1 - see diagram in section 2.3.3

Connect the L/R audio output of the TV to Analog Audio-In/SAT•AUX on the TLP 1. If you are using a satellite receiver and your TV does not have audio inputs and outputs, connect the satellite receiver directly to Analog Audio-In/SAT•AUX on the TLP 1.

• VCR to TLP 1 – see diagram in section 2.3.3

Connect the L/R audio output of the VCR to Analog Audio-In/VCR on the TLP 1. *To Record:* Connect Analog Audio-Out/RECORD on the TLP 1 to the L/R audio input of the VCR.

• TLP 1 to Amplifier – see diagrams in sections 2.3.4 and 2.3.5

From the TLP 1, connect Left and Right outputs to the inputs of the power amplifier. Use FULL RANGE if using full-range speakers either with or without a subwoofer, and HIGH PASS if using speakers with limited low-frequency response along with a subwoofer. Follow the amplifier manufacturer's instructions for connecting the speakers.

• TLP 1 to Powered Subwoofer – see diagrams in sections 2.3.4 and 2.3.5

From the TLP 1, connect Analog Audio-Out/SUBWOOFER to the subwoofer's line/low level input. Use FULL RANGE if the subwoofer has a built-in crossover, and LOW PASS if the subwoofer's crossover is bypassed or if the subwoofer doesn't have a crossover.

Reconnect the power to all components and turn them on. To turn on the TLP 1 press the **POWER** button on the front panel.

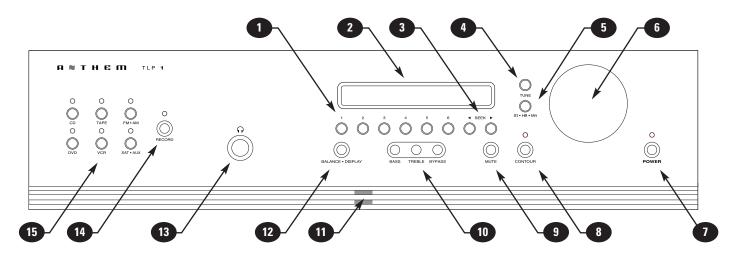
To Listen to a CD:

- Press **CD** Source on the front panel of the TLP 1.
- Place a CD into the CD player and press play. You should hear music coming from your speakers.
 Use the TLP 1 Master Control Knob on the front panel to adjust volume.

To Watch a DVD:

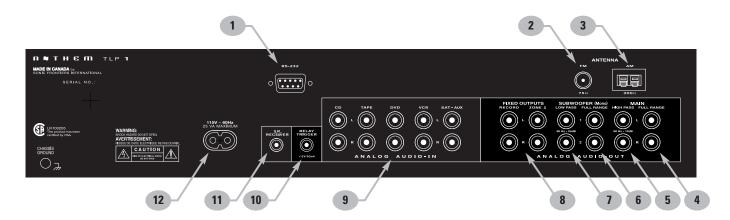
- Press **DVD** Source on the front panel of the TLP 1.
- Select the TV input that corresponds to the one that the DVD player's video output is plugged into.
- Place a DVD into the DVD player and press play. You should see the picture on your TV and hear sound from your speakers. Use the TLP 1 Master Control Knob on the front panel to adjust volume.

2.2 FRONT AND REAR PANEL LAYOUTS



- 1 FM•AM Preset selection
- 2 Display
- 3 FM•AM Seek
- 4 FM•AM Tune
- 5 FM Stereo / Hi Blend / Mono
- 6 Master Control Knob:
 - Volume
- <u>Tune</u> for FM•AM
 - <u>Setting Adjustment</u> for Bass / Treble / Balance;
 Display Brightness; Input Level

- 7 Power On / Stand-By
- 8 Contour On/Off
- **9** Mute
- 10 Bass / Treble settings
- 11 Front Panel Remote Control IR Sensor
- 12 Balance / Display Brightness setting
- 13 Headphone Jack
- 14 Record Path selection
- 15 Source selection



- 1 RS-232 port (for custom installation)*
- 2 FM Antenna Input
- 3 AM Antenna Input
- 4 Full Range Output (L/R jacks)
- 5 High Pass Output (L/R jacks)
- 6 2 Subwoofer Outputs (Full Range)

- 7 2 Subwoofer Outputs (Low Pass)
- 8 2 Line Level Outputs (Record, Zone 2 L/R jacks)
- 9 5 Inputs (L/R jacks)
- 10 Relay Trigger Output (3.5 mm mono jack)
- 11 Infra Red Input (3.5 mm mono jack)
- 12 Power Cord Connection

^{*}Custom Installers: RS-232 port is on newer production TLP 1s only. Command set is available at www.anthemAV.com.

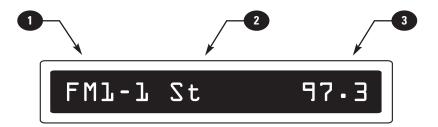
2.2.1 FRONT PANEL DISPLAY

Main Display Example:



- 1 Source selection.
- 2 Volume setting. When muted, "Muted" flashes instead of the current volume setting.

FM•AM Display Example:



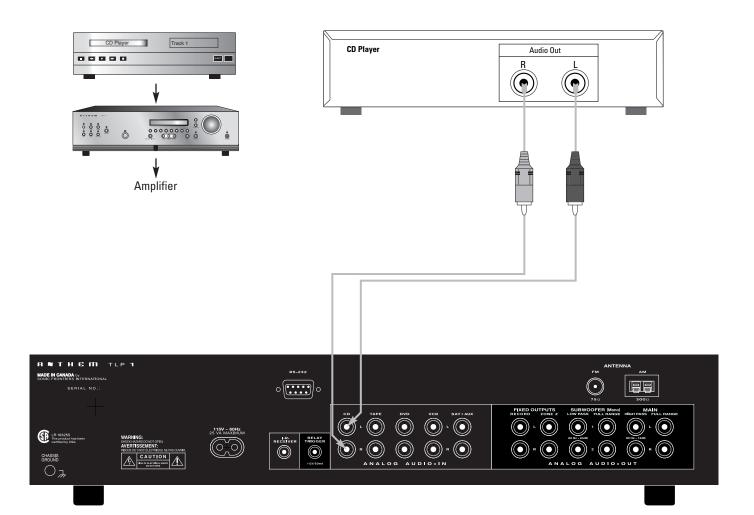
- 1 Source+Bank. The tuner has three FM banks (FM1, FM2, and FM3) and one AM bank. The number after the selected bank is the preset station.
- 2 FM mode. Displays "St" when in stereo, "HB" when Hi-Blend is selected, or "Mn" when in mono or mono is selected.
- 3 Currently tuned FM•AM frequency to the nearest 0.1 MHz for FM and to nearest 10 kHz for AM.

Record Display Example:

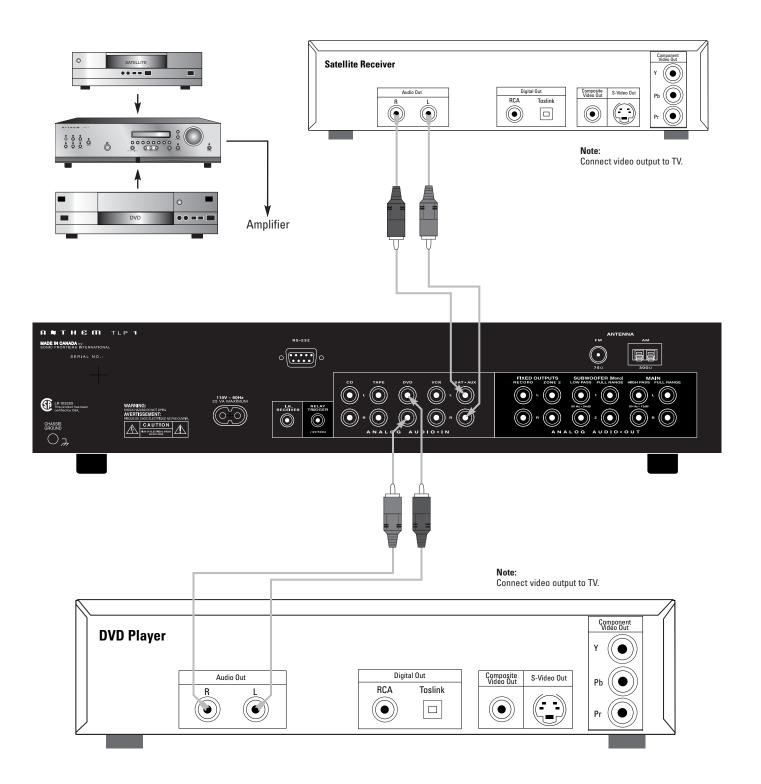


- 1 Source selection.
- 2 Record path indication. Note that the selection time lasts approximately 3 seconds, after which the normal display returns.

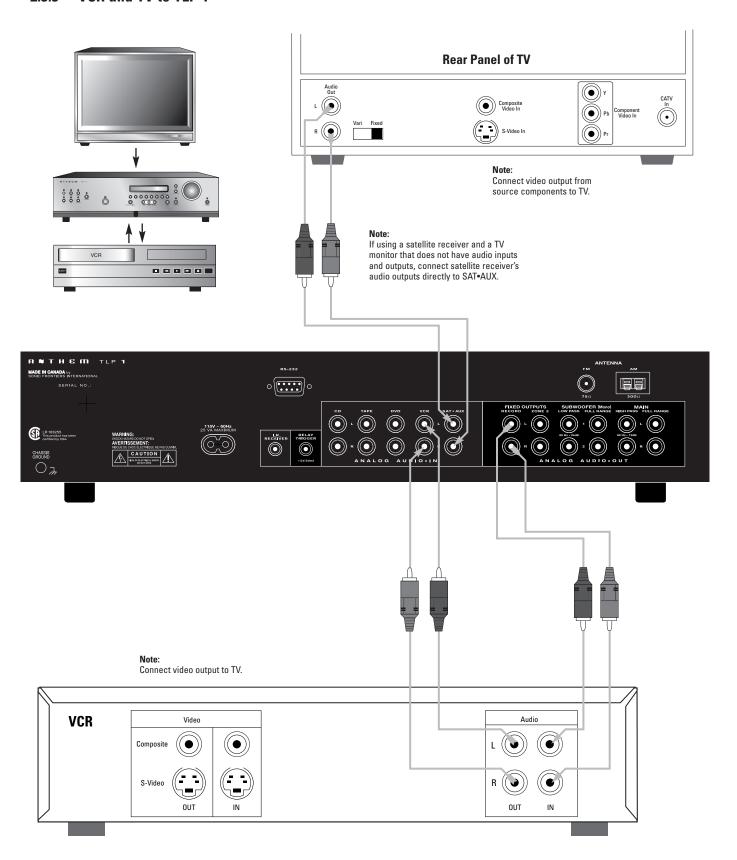
2.3.1 CD Player to TLP 1



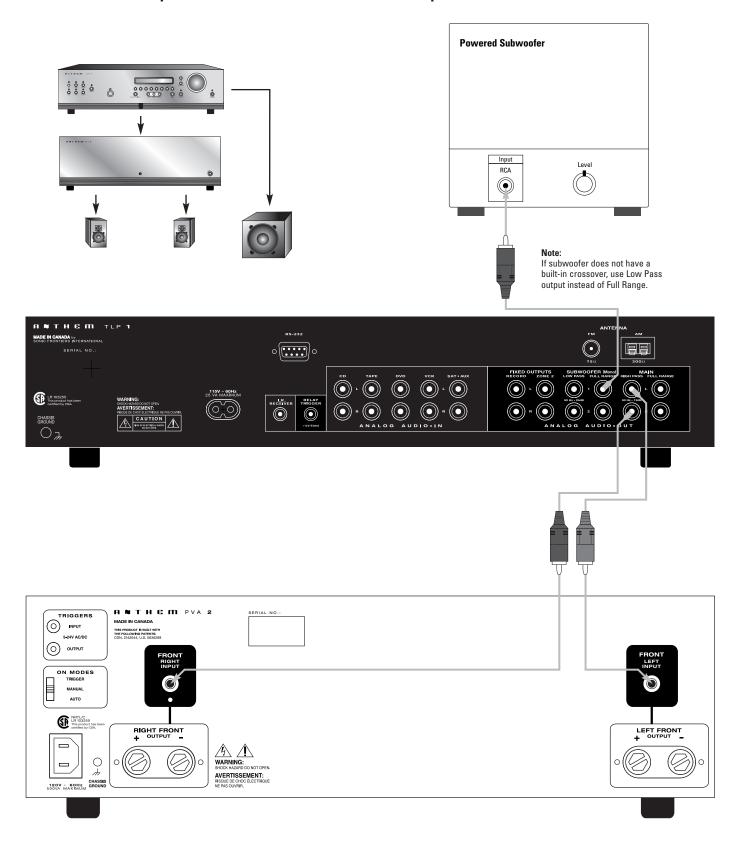
2.3.2 DVD Player and Satellite Receiver to TLP 1



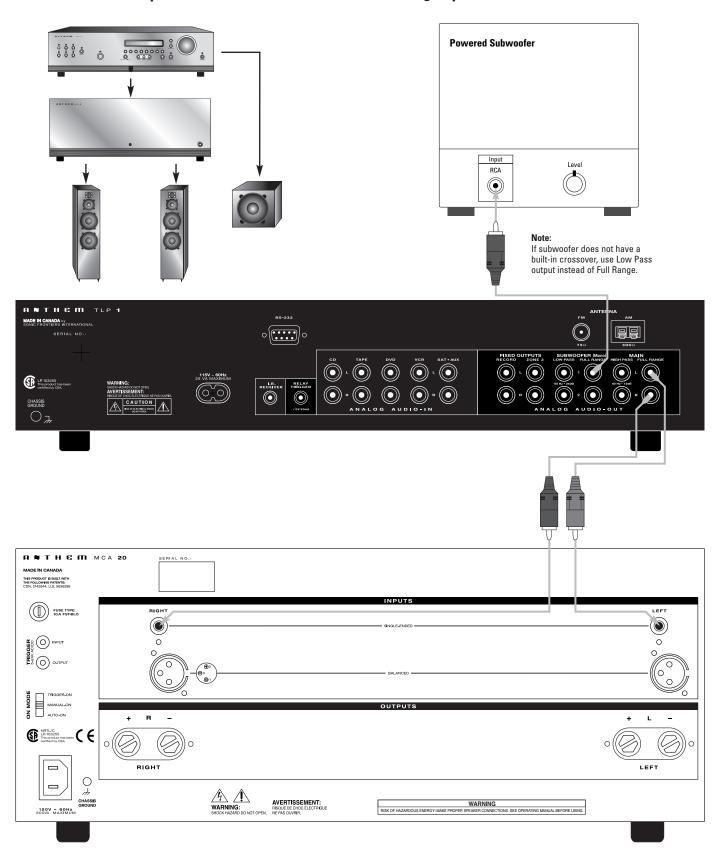
2.3.3 VCR and TV to TLP 1



2.3.4 TLP 1 to Amplifier and Powered Subwoofer – Small Speakers



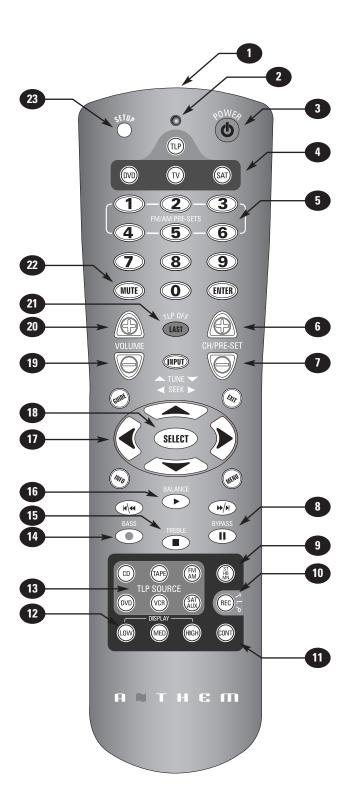
2.3.5 TLP 1 to Amplifier and Powered Subwoofer – Full Range Speakers



2.4 REMOTE CONTROL LAYOUT

- 1 IR Transmitter (front face)
- 2 Transmission Indicator LED (red)
- TLP 1 Power ON
 Power ON/OFF for other components (see #4)

 Note: This does not turn the TLP 1 off (see #21)
- 4 Control Mode selection
- 5 FM•AM Preset selection (6)
- 6 FM•AM Preset Station Up
- 7 FM•AM Preset Station Down
- 8 Selects Tone Bypass
- 9 Selects Stereo / Hi Blend / Mono for FM•AM
- 10 RECORD Path selection
- 11 Contour On/Off
- 12 Display Brightness
- 13 Source selection
- 14 Bass setting
- 15 Treble setting
- 16 Balance setting
- **17** − <u>Tune</u> for FM•AM
 - Setting Adjustment Bass / Treble
 - Seek for FM•AM
 - Setting Adjustment for Balance
- 18 FM•AM Direct Entry
- 19 Volume Down
- 20 Volume Up
- 21 TLP 1 Power OFF
- **22** Mute
- 23 Setup (for customization of remote)



2.5 CONNECTING POWER TO THE TLP 1

Connect the power cord to the back of the TLP 1 and then to an AC outlet. If excessive hum or buzz is heard through the speakers during operation, remove the cord from the back of the TLP 1 and re-insert it after turning the connector upside down.

2.6 AUDIO INPUTS

Audio connections are made through interconnect cables – typically white or black for the Left channel and red for the Right channel. The audio output connectors on tape recorders, VCRs, and CD players are normally color coded in this same manner – connect them to the appropriate inputs on the TLP 1:



2.7 AUDIO OUTPUTS

Any of the outputs shown below can be used simultaneously:



Fixed Outputs:

These provide a fixed line-level output for connection to a tape recorder's or VCR's audio record inputs, and/or to an integrated amplifier or receiver that is used for another room (Zone 2) so sources connected to the TLP 1 can be directed to that remote location. The volume control does not affect this output level.

Subwoofer:

Intended to be used with a powered subwoofer or subwoofer amplifier, each of the four jacks provides a mono signal of the left and right channels combined. Up to two subwoofers can be connected in either of the following configurations: Low Pass, which contains only low bass, or Full Range, which is unfiltered.

- Use **Full Range** if the subwoofer has a built-in crossover.
- Use Low Pass if the subwoofer's crossover is bypassed or if there is no crossover in the subwoofer or subwoofer amplifier.

Main:

The High Pass output reduces low bass which makes it ideal when using smaller speakers that are unable to reproduce deeper bass or bass at full output levels. The use of a powered subwoofer is strongly recommended with this setup. The unfiltered Full Range output is the 'normal' full bandwidth audio output.

- Use Full Range if using full bandwidth speakers, either with or without a subwoofer.
- · Use High Pass if using smaller speakers and a subwoofer.

Headphone:

When a headphone plug is inserted into the headphone jack on the front panel, all audio outputs on the rear panel are muted.

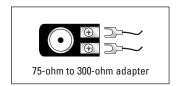


2.8 FM•AM ANTENNAS

To connect the FM antenna, first connect the two antenna wires to the screw terminals of the 75-ohm to 300-ohm adapter. Then connect the adapter to the FM ANTENNA connector on the TLP 1. If your local cable company provides FM service, connect the cable directly to the TLP 1 instead of using the antenna.

To connect the AM loop antenna, press the spring-loaded tabs of the AM ANTENNA connector, insert the bare ends of the wire from the loop antenna and release the tabs.

Once the antennas are connected, move each of them around until best reception is found. For the FM antenna, this will usually be in a "T" formation.





2.9 RELAY TRIGGER

If your other components, such as the power amplifier, have a trigger input, you can automatically turn them on and off simultaneously with the TLP 1. Connect the RELAY TRIGGER trigger output from the TLP 1 to the trigger input of your power amplifier, TV monitor, etc., using a cable with 3.5mm mono mini plugs.



2.10 INFRA RED RECEIVER

An external IR repeater allows the Remote Control to be used from other locations in your home, for example Zone 2. Once a repeater is wired to a selected room, connect it to the I.R. RECEIVER input.



3. FRONT PANEL OPERATION

3.1 POWER ON/OFF

When turned on, the TLP 1 will have all of the same settings it had when it was last turned off, except for Volume, which comes on at -30 dB.



3.2 MASTER CONTROL KNOB

Besides being a Volume Control, the MASTER CONTROL KNOB also operates other functions, including adjustment of Bass / Treble / Balance, FM•AM tuning, Input Level, and Display Brightness selection.

Mute:

When MUTE is pressed, the audio output is silenced. Press MUTE again, or rotate the Master Control Knob to adjust the volume, and sound will return.



3.3 SOURCE SELECTION

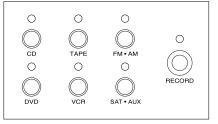
The TLP 1 accommodates up to five external sources plus the built-in FM•AM stereo tuner. The main path selection is completely independent from the record path selection.

Main Path:

To make a source selection, simply press the corresponding button.

Record Path:

To make a selection for the Record outputs, press Record, then press a source button within 3 seconds – the red indicator will remain lit for the duration of the selection period.



Adjust Input Levels:

You can match main path input levels to each other to prevent large changes in volume as you change from one source to another. Press and hold the source button of the input you want to adjust, and when 'Lvl +0.0' appears on the display, adjust using the Master Control Knob before the main display returns.

Before making input level adjustments, have all connected source components playing similar music material. Also, make sure that all four tuner banks are tuned to a station (see below). Then, as you switch through each source, you will hear that component play. This allows for easy comparative level adjustments.

Note: The selected tuner bank immediately changes when pressing FM•AM. To adjust AM input level, select FM-3 first, then press and hold **FM•AM** and the band will automatically change to AM.

3.3.1 FM • AM TUNER

The TLP 1 has a built-in FM • AM tuner. The station that is selected for the main outputs is automatically shared when FM • AM is selected for Record.

Manual Tuning:

Select the desired bank by pressing **FM•AM**, then press **TUNE** and rotate the Master Control Knob to find a station.



Automatic Tuning:

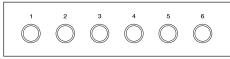
To automatically find the next station, press ◀ SEEK or SEEK ▶ . To scan and listen to all available radio stations for a few seconds at a time, press and hold ◀ SEEK or SEEK ▶ for about a second. The 'Seek ◀ ' or 'Seek ▶ ' indicator on the display will change to '◀ ◀ ' or '▶ ' to indicate that the tuner is scanning. To stop scanning, press the same SEEK button that was used to initiate scanning.



3. FRONT PANEL OPERATION continued ...

Presets:

18 FM and 6 AM stations can be stored in the TLP 1. The presets are divided into four banks of six. By repeatedly pressing **FM • AM**, the display will show that you are cycling through 'FM1', 'FM2', 'FM3', 'AM'. Once you have selected the



desired bank, you can store the currently tuned radio station by pressing and holding one of the six preset keys (1 through 6) for about a second. You can even do this while scanning for stations. The lower line of the display briefly flashes once the station is stored. To recall a preset, select the bank that it is in, then press the respective preset key.

ST / HB / Mn:

If FM reception is weak, switching a station out of stereo can reduce or eliminate unwanted hiss and noise. Press **ST / HB / Mn** repeatedly to cycle through Stereo, Hi-Blend, or Mono. Hi-Blend offers an alternative to Mono, offering decreased noise without the complete loss of stereo – it decreases noise by reducing some stereo separation at higher frequencies.

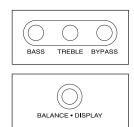


When storing a station to a preset, your selected preference of Stereo, Hi-Blend, or Mono will also be stored.

3.4 BASS / TREBLE / BALANCE

To change Bass, Treble, or Balance, press BASS, TREBLE, or BALANCE • DISPLAY, then adjust using the Master Control Knob.

Bass and Treble settings are stored in memory by source — for example, you may want to set treble for AM to +6, FM to -1 and Tape to +1. The TLP 1 memorizes bass and treble settings for each source independantly. This allows you to switch between sources without having to constantly make Bass or Treble adjustments.



Tone Bypass:

Pressing BYPASS disables Bass/Treble adjustments, as well as defeating the Contour feature if it has been engaged. To enable Bass/Treble again, press either BASS or TREBLE.

3.5 CONTOUR

When listening at low levels, our hearing sensitivity to bass and treble frequencies decreases. When engaged, the Contour function of the TLP 1 compensates by adding bass and treble according to volume setting and a psychoacoustically modeled compensation curve. It begins to take effect when the volume setting is around -20 dB. Bass and treble added relative to the overall signal gradually increases as the volume is lowered.



3.6 DISPLAY BRIGHTNESS

The intensity of the Front Panel display and indicators can be changed. Press BALANCE•DISPLAY twice and then use the Master Control Knob to select High, Medium, or Low.

4. REMOTE CONTROL OPERATION

The TLP 1 Universal Remote Control has all of the same functions as the front panel buttons and is operated in a similar way, but there are some differences. Please take the time to read this section to fully understand all the functions of the TLP 1 Remote Control.

The keys labeled in this illustration show those that have a **different** method of operation from their front panel counterparts. Those shown in **bold** *italics* indicate keys that are unique to the Remote Control and not found on the Front Panel. For a detailed layout diagram see section 2.4.

Before we get started, we have to give the remote a little attitude adjustment – set the 'personality' to TLP by pressing **TLP** Control Mode key near the top of the remote.

Note: The Control Mode keys do not transmit any commands. They only determine where subsequent commands are sent. For example, if TV is selected followed by CH+, the channel changes on your TV while the TLP 1 and all other components remain unaffected (see section 4.3.1 and Appendix A to set up reset memory codes).

Did we forget to mention the batteries? They go in by taking off the rear cover — remember polarity. Down the road, if the LED blinks twice each time a command is sent and the TLP 1 doesn't respond, it's an indication that the batteries need replacement.

4.1 POWERING THE TLP 1 ON AND OFF

Separate power commands are a requirement in custom multi-zone installations, and for this reason **two different keys** are used to turn the TLP 1 ON and OFF.

The power key in the top right corner turns the TLP 1 Power ON. The red **TLP 0FF** key in towards the middle turns the TLP 1 Power OFF.

The TLP 1 is turned ON and OFF as follows:

• ON: Press 🙆.

• OFF: Press TLP OFF.



4.2 DIRECT FM • AM STATION ENTRY (Remote Control Only)

When using the FM•AM Tuner, the station frequency can be entered as a four-digit number. For example, to tune into 98.3 FM, press and hold **SELECT** until the display shows "<blank>0.0" in the lower left corner, then press **0**, **9**, **8**, **3**.

4. REMOTE CONTROL OPERATION continued.

4.3 CONTROLLING OTHER COMPONENTS

The TLP 1 Remote Control can be set up to control your TV, DVD player or VCR, and satellite receiver or cable converter. It contains a set of codes for models from many different manufacturers, which can be entered to virtually duplicate another remote control.

4.3.1 ENTERING PRESET MEMORY CODES

In Appendix A, at the back of this manual, you will find codes for programming the TLP 1 remote. To enter a preset memory code:

- 1. Press the Component key (e.g. **DVD**).
- 2. Press and hold **SETUP** until the LED flashes twice.
- 3. Enter the four-digit code from Appendix A. The LED should blink twice.

VCR and Laser Disc player codes can be programmed into the DVD key, and Cable Converter codes can be programmed into the SAT key. A VCR code, for example, can not be programmed into the TV key.

4.3.2 SEARCHING FOR A CODE

If a code for your component is not listed in Appendix A, it may be buried under a different name, for example if one DVD player manufacturer uses a mechanism from another manufacturer:

- 1. Turn the component on (e.g. DVD player).
- 2. Press the matching Component key (e.g. **DVD**).
- 3. Press and hold SETUP until the LED flashes twice.
- 4. Press 9, 9, 1.
- 5. Aim the remote towards the DVD player and alternate between pressing **O** and **DVD**.
- 6. Stop once the DVD player turns off. Immediately press and release **SETUP** to lock the code.

Note: There may be more than one manufacturer code that causes power to turn on/off on your component – you may have to try this a few times before finding a code that controls all functions.

7. If, for future reference, you want to know what the code is, press and hold **SETUP** until the LED flashes twice and then press **9**, **9**, **0**, **1**. Wait 3 seconds and count the number of flashes. The number of flashes represent the first digit (i.e. 3 flashes = 3, no flash = 0). Next, press **2** for the second digit, **3** for the third digit, and **4** for the fourth digit, and count the number of flashes each time. Record this code number in Appendix A for future reference.

4.3.3 VOLUME LOCK

After entering a code for your TV or satellite receiver, you may find it inconvenient to switch the Component keys back and forth when you alternate between say, changing channels on your TV and adjusting volume on the TLP 1. Not to worry, the Volume Lock feature takes care of this. When engaged, the volume keys adjust TLP volume, regardless of which Component is selected. You can then leave your Component selection in TV – you no longer have to press TLP first to adjust the volume of the TLP 1.

4. REMOTE CONTROL OPERATION continued ...

In the following example, TLP volume is locked onto every Component selection except TV:

To Engage Volume Lock for TLP:

- 1. Press and hold **SETUP** until the LED flashes twice.
- 2. Press 9, 9, 3.
- 3. Press TLP.

At this point, the Volume and Mute keys now control the TLP 1, no matter which of the four Component selections the Remote Control is in. However, since this may not be desirable, any individual Component selection can be unlocked.

To Disengage Volume Lock for TV, and re-engage the TV Volume Control:

- 4. Press TV.
- 5. Press and hold **SETUP** until the LED flashes twice.
- 6. Press 9, 9, 3.
- 7. Press VOL-.

The Volume and Mute keys now control the TLP 1 for every Component selection except for TV. You may continue to unlock other Components one at a time. To unlock all Components at once and restore the default setting, press **VOL+** instead of **VOL-** in step 7.

4.4 TEACHING THE TLP 1 REMOTE CONTROL TO UNIVERSAL LEARNING REMOTES

Some keys on the TLP 1 Remote, such as **VOL+**, **VOL-**, and **SELECT** have **press and hold** commands as well as regular **press and release** commands. The 'press and hold' command of a key is exactly the same as the 'press and release' command of that key, repeated as long as the key is held. It may be necessary to program your aftermarket remote to **loop** or **repeat** a 'press and release' command to turn it into a 'press and hold' command. The methods of doing this vary with the model — contact the remote control manufacturer for more information.

APPENDIX A – PRESET MEMORY CODES

VCR and Laser Disc player codes can be programmed into the DVD key, and Cable Converter codes can be programmed into the SAT key. To enter a code:

- Press the Component key (e.g. TV).
 Press and hold SETUP until the LED flashes twice.
 Enter the four-digit code. The LED should blink twice.

TVo		MTC	0060, 0030, 0019, 0056	Technics	0047, 0017, 0051, 0250,
TVs:		Magnavox	0054, 0030, 0179	1001111103	1347
AOC	0030, 0019	Majestic	0016	Technol Ace	0179
Admiral	0093	Marantz	0054, 0030	Techwood	0051, 0056
Aiko	0092	Matsushita	0051, 0250	Teknika	0054, 0180, 0150, 0060,
Akai Alaron	0030 0179	Megatron	0178, 0145		0019, 0179, 0056, 0016,
Allegro	0720, 0774	Memorex	0154, 0250, 0150, 0060,	Talafoodoan	0039, 0092
Ambassador	0177	Midland	0178, 0056, 0016 0047, 0017, 0051, 0039,	Telefunken Toshiba	0056 0154, 0156, 0060
Ampro	0751	Wildialia	0135	Totevision	0039
Anam	0180	Minutz	0021	Universal	0021
Audiovox	0451, 0180, 0092, 0623	Mitsubishi	0093, 0150, 0178, 0019	Vector Research	0030
Aumark	0060	Motorola	0093	Victor	0053
Baysonic	0180	Multitech	0180	Vidikron	0054
Belcor Bell & Howell	0019	NAD	0156, 0178, 0166	Vidtech	0178, 0019
Bradford	0154, 0016 0180	NEC NTC	0030, 0019, 0056 0092	Wards	0054, 0156, 0165, 0030,
Brockwood	0019	Nikko	0047, 0017, 0154, 0156,		0178, 0021, 0019, 0179, 0056, 0016, 0135
Broksonic	0236, 0463	NIKKO	0030, 0178, 0092, 1347	White Westinghouse	0623, 0624
CXC	0180	Onwa	0180	Yamaha	0030, 0019
Candle	0030, 0056	Optimus	0154, 0250, 0166	Zenith	0017, 0016, 0092
Carnivale	0030	Optonica	0093, 0165		
Carver Celebrity	0054 0000	Orion	0236, 0463, 0179	VCRs:	
Cineral	0451, 0092	Panasonic	0047, 0054, 0154, 0156,	Admiral	0048
Citizen	0060, 0030, 0056, 0039,		0051, 0250, 0093, 0165, 0150, 0060, 0053, 0178,	Adventura	0000
Oldzon	0092		0145, 1347	Aiko	0278
Concerto	0056	Penney	0047, 0156, 0051, 0060,	Aiwa	0037, 0000
Contec	0180	,	0030, 0178, 0021, 0019,	Akai	0041
Craig	0180		0056, 0039, 0135, 1347	American High	0035
Crosley	0054	Philco	0054, 0463, 0030, 0145,	Asha Audiovox	0240 0037
Crown	0180, 0039		0019	Beaumark	0240
Curtis Mathes	0047, 0054, 0154, 0051, 0451, 0093, 0060, 0030,	Philips	0054, 0017, 0000, 0021,	Bell & Howell	0104
	0145, 0056, 0016, 0039,	Pilot	0019, 0039 0030, 0019, 0039	Broksonic	0184, 0121, 0209, 0002
	0166, 0466, 1147, 1347	Pioneer	0166	CCE	0072, 0278
Daewoo	0451, 0019, 0039, 0092,	Portland	0019, 0039, 0092	Calix	0037
	0623, 0624	Prism	0051	Canon	0035
Daytron	0019, 0039	Proscan	0047, 0030, 1347	Carver	0081
Denon	0145	Proton	0178, 0466	Cineral Citizen	0278 0037, 0278
Dumont Dwin	0017, 0019	Pulsar	0017, 0019	Colt	0037, 0270
Electroband	0720, 0774 0000	Quasar RCA	0051, 0250, 0165	Craig	0037, 0047, 0240, 0072,
Emerson	0154, 0236, 0463, 0180,	NUA	0047, 0051, 0093, 0019, 0090, 0135, 1047, 1147,	.	0271
	0282, 0178, 0019, 0179,		1247, 1347	Curtis Mathes	0060, 0035, 0041, 0162
	0039, 0177, 0623, 0624	Radio Shack	0047, 0154, 0165, 0180,	Cybernex	0240
Envision	0030		0030, 0178, 0019, 0056,	Daewoo	0045, 0278
Fisher	0154		0039	Denon Dynatech	0042 0000
Fujitsu Funai	0179 0180, 0179, 0171	Realistic	0154, 0165, 0180, 0030,	Electrohome	0037
Futuretech	0180	D	0178, 0019, 0056, 0039	Electrophonic	0037
GE	0047, 0051, 0451, 0093,	Runco SSS	0017, 0030, 0603 0180, 0019	Emerex	0032
	0282, 0178, 0021, 0135,	Sampo	0030, 0039	Emerson	0037, 0184, 0000, 0121,
	1147, 1347	Samsung	0060, 0030, 0178, 0019,		0043, 0209, 0002, 0278
Gibralter	0017, 0030, 0019	Ü	0056, 0039	Fisher	0047, 0104
Go Video	0060	Samsux	0039	Fuji Funai	0035, 0033 0000
GoldStar	0030, 0178, 0019, 0056, 0039	Sansei	0451	GE	0060, 0035, 0048, 0240
Gradiente	0053, 0056	Sansui	0463	Garrard	0000, 0000, 0010, 0210
Grunpy	0180, 0179	Sanyo Scimitsu	0154 0019	Go Video	0526
Hallmark	0178	Scotch	0178	GoldStar	0037, 0038
Harley Davidson	0179	Scott	0236, 0180, 0178, 0019,	Gradiente	0000
Harman/Kardon	0054		0179	HI-Q	0047
Harvard	0180	Sears	0047, 0054, 0154, 0156,	Harley Davidson Harman/Kardon	0000
Hitachi	0145, 0056, 0151		0178, 0179, 0056, 0171	Harwood	0081, 0038 0072
Infinity Inteq	0054 0017	Semivox	0180	Headquarter	0046
JBL	0017	Semp Sharp	0156 0093, 0165, 0039	Hitachi	0000, 0042, 0041
JCB	0000	Shogun	0019	JVC	0067, 0041
JVC	0053	Signature	0016	Jensen	0041
KEC	0180	Sony	0000	KEC	0037, 0278
KTV	0180, 0030, 0039	Soundesign	0180, 0178, 0179	KLH	0072
Kenwood	0030, 0019	Squareview	0171	Kenwood Kodak	0067, 0041, 0038, 0046 0035, 0037
LG LXI	0056	Starlite	0180	LXI	0035, 0037
LAI	0047, 0054, 0017, 0154, 0156, 0178, 1347	Supreme	0000	Lloyd's	0000
Logik	0016	Sylvania Symphonic	0054, 0030 0171	Logik	0072
Luxman	0056	TMK	0171	MEI	0035
MGA	0150, 0030, 0178, 0019	Tandy	0093	MGA	0240, 0043
		•		MGN Technology	0240

APPENDIX A - PRESET MEMORY CODES continued.

MTC	0240, 0000	TV/VCR Combos:		RCA	0021
Magnasonic	0278			Radio Shack	0015, 0315, 0797, 0883
Magnavox	0035,0039, 0081, 0000,	American High	0035 (for TV use 0051)	Recoton	0400
-	0149	Brocksonic	0002, 0294	Regal	0020, 0259
Magnin	0240	Colt	0072 0035 (for TV use 0051)	Regency	0002
Marantz	0035, 0081, 0038	Curtis Mathis Daewoo	0278	Rembrandt	0011
Marta	0037	Emerson	0002, 0294, 0479	Runco	0000
Matsushita	0035,0162, 0454	Funai	0002, 0234, 0473	SL Marx	0040
Memorex	0035, 0037, 0048, 0039,	GE	0035 (for TV use 0051)	Samsung Scientific Atlanta	0144, 0040
	0047, 0240, 0000, 0104, 0046, 1162, 1262		0060 (for TV use 0047)	Scientific Atlanta Signal	0008, 0477, 0017, 0877 0015, 0040
Minolta	0042		0048 (for TV use 0093)	Signature	0013, 0040
Mitsubishi	0048, 0067, 0043		0240	Sprucer	0021
Motorola	0035, 0048	Hitachi	0035 (for TV use 0051)	Starcom	0003, 0015
Multitech	0000,0072		0000	Stargate	0015,0040, 0797
NAP	0035, 0037, 0039, 0042,	НΩ	0000	Starquest	0015
	0033	Lloyds	0000	TV86	0063
NEC	0104, 0067, 0041, 0038	MGA	0240	Teleview	0040
Nikko	0037	Magnavox	0081 (for TV use 0054) 0035 (for TV use 0051)	Tocom	0012, 0013
Noblex	0240		0000	Toshiba	0000
Olympus	0035	Magnin	0240	Tusa	0015
Optimus	0037,0048, 0104, 0162,	Memorex	0037.	Unika	0153
0-1	0454,1062, 1162, 1262	oo.	0162 (for TV use 0250)	United Artists	0007
Orion Panasonic	0184, 0002 0035, 0162, 0225, 0454,	Mitsubishi	0048 (for TV use 0093)	Universal Viewstar	0153,0191 0063
ו עוומסטווול	1162	Orion	0002, 0294, 0479	Zenith	0008, 0000, 0015, 0525
Penney	0035, 0037, 0240, 0042,	Panasonic	0035 (for TV use 0051)	Zentek	0400
,	0033, 0037, 0240, 0042,		0162 (for TV use 0250)		0.00
Pentax	0042	Penney	0035 (for TV use 0051)	Satellite or DBS	Receivers:
Philco	0035, 0209		0240,		
Philips	0035, 0081	•	0162 (for TV use 0250)	AlphaStar	0772
Pilot	0037	Quasar	0035 (for TV use 0051)	Echostar	0775
Pioneer	0067	DCA	0162 (for TV use 0250)	Expressvu	0775
Profitronic	0240	RCA	0060 (for TV use 0047) 0035 (for TV use 0051)	General Instrument HTS	0627, 0361, 0869 0775
Proscan	0060		0048 (for TV use 0093)	Hitachi	0819
Protec	0072	Sansui	0000, 0479	Hughes Net. Sys.	0749
Pulsar	0039	Sanyo	0240	JVC	0775
Quarter	0046	Sears	0000, 0037	Jerrold	0627, 0361
Quartz Quasar	0046	Sharp	0048 (for TV use 0093)	Magnavox	0724, 0722
RCA	0035,0162, 0454, 1162 0060,0035, 0048, 0240,	Sony	0032 (for TV use 0000)	Memorex	0724
IIOA	0042, 0149	Symphonic	0000	Next Level	0869
Radio Shack	0000	Zenith	0000	Panasonic	0701
Radix	0037			Philips	0724, 0722
Randex	0037	Cable Converters:		Primestar	0627, 0361
Realistic	0035, 0037, 0048, 0047,	ABC	0003, 0008, 0014, 0017,	Proscan	0566
	0000, 0104, 0046	ADO	0007, 0011, 0013	RCA	0566, 0143, 0855
Runco	0039	Allegro	0153, 0315	Radio Shack	0566, 0869
STS	0042	Archer	0153, 0797	Sony Star Choice	0639 0869
Samsung	0240, 0045	Bell & Howell	0014	Toshiba	0790
Sanky	0048, 0039	Century	0153	Uniden	0724, 0722
Sansui	0000, 0067, 0041, 0271	Citizen	0153, 0315	Zenith	0856
Sanyo	0047, 0240, 0104, 0046	Comtronics	0040	2011101	0000
Scott	0184, 0045, 0121, 0043	Contec	0019	DVD Players:	
Sears	0035, 0037, 0047, 0000, 0042, 0104, 0046	Eastern	0002		
Semp	0045	Emerson	0797	Harman/Kardon	0582
Sharp	0048	Everquest	0015, 0040	JVC	0558
Shintom	0072	Focus Garrard	0400	Kenwood	0534 0503
Shogun	0240	Gemini	0153 0015	Magnavox Mitsubishi	0521
Signature	0035	General Instrument	0476, 0276, 0011, 0810	Onkyo	0503
Singer	0072	GoldStar	0144, 0040	Optimus	0525
Sony	0035, 0032, 0000, 0033	Goodmind	0797	Panasonic	0490
Sylvania	0035, 0081, 0000, 0043	Hamlin	0020, 0259, 0009, 0034	Philips	0503, 0539
Symphonic	0000	Hitachi	0011	Pioneer	0525, 0571
TMK	0240	Hytex	0007	Proscan	0522
Tatung	0041	Jasco	0015, 0153, 0315	RCA	0522
Teac	0000, 0041	Jerrold	0003, 0012, 0476, 0276,	Samsung	0573
Technics Teknika	0060, 0035, 0039, 0162 0035, 0037, 0000		0014, 0015, 0011, 0810	Sony	0533
Thomas	0000	Magnavox	0014	Technics	0490
Toshiba	0045, 0043	Memorex Mayia Tima	0000	Theta Digital	0571
Totevision	0037, 0240	Movie Time	0063	Toshiba Yamaha	0503
Unitech	0240	NAP NSC	0007 0063	Yamana Zenith	0490, 0545 0503, 0591
Vector	0045	Oak	0019, 0007	7011101	0303, 0331
Vector Research	0038	Optimus	0019, 0007	Laser Disc Playe	ire.
Video Concepts	0045	Panasonic	0000, 0107, 0021		
Videosonic	0240	Paragon	0000, 0107, 0021	Denon	0059
	0060, 0035, 0048, 0047,	Philips	0153	Mitsubishi	0059
Wards					
Wards	0081, 0240, 0045, 0000,	Pioneer	0144, 0533	NAD	0059
	0081, 0240, 0045, 0000, 0042, 0072, 0149			Pioneer	0059
White Westinghouse	0081, 0240, 0045, 0000, 0042, 0072, 0149 0278	Pioneer Popular Mechanics Proscan	0144, 0533 0400 0021		
	0081, 0240, 0045, 0000, 0042, 0072, 0149	Pioneer Popular Mechanics	0144, 0533 0400	Pioneer	0059

Zenith

0039, 0000, 0033

Quasar

0000

SPECIFICATIONS

PREAMPLIFIER Maximum Input4.0 Vrms Maximum Output. 3.3 Vrms Crossover Crossover Frequency......80 Hz **Tone Control** Frequency Response and Bandwidth THD+N (1 kHz, rated input and output, 80 kHz BW) IMD (CCIF at 15 kHz & 16 kHz) S/N Ratio (IEC-A filter)

FM TUN	IER	
Sensitiv	50 dB S/N	
	IHF	10 dBµ typ., 20 dBµ max.
S/N Rati	Mono	
	Stereo	69 aB typ., 60 aB min.
Distortic	on Mono Stereo	71 '
Stereo S	Separation	
Adjacen	nt Channel Selectivity (±400 kHz)	70 dB typ., 60 dB min.
Frequen	ncy Response	25 Hz to 15 kHz +0, -2 dB
AM TUN	NER	
Sensitiv	vity (20 dB S/N)	
S/N Rati	io	50 dB typ., 43 dB min.
Distortio	on	
One Sig	nal Selectivity (±10 kHz)	24 dB typ., 18 dB min.
CONTRO	OL	
Infra Re	ed Remote	
	Carrier Frequency External Receiver Input Jack	
Trianor (·	
Trigger (Jack	3.5 mm mono (tip positive, sleeve ground
	Maximum Output	50 mA at 12 VDC
POWER	REQUIREMENTS	
Supply \	Voltage	
Power C	Consumption	Maximum 25 W
Fuse Ra	ting (Fuse is internal)	500 mA slow-blow 5x20mm
DIMENS	SIONS	
	SIONS	
Width		, , ,
DIMENS Width Height Depth		

Audio measurements were performed with an Audio Precision System Two. Specifications and features are subject to change without notice as design improvements are incorporated.

CANADA & USA

The warranty period on Anthem products is five (5) years for power amplifiers and integrated amplifiers, three (3) years for audio preamplifiers and audio processing, two (2) years for video equipment and video processing, one (1) year for remote controls, and six (6) months for projector lamps from date of purchase from Anthem or an Authorized Anthem Dealer. If Anthem determines that the product has a defect in materials or manufacturing during the period Anthem will at its option repair, replace or provide the necessary replacement parts without charging for parts or labor. Repaired or replaced equipment or parts supplied under this warranty are covered by the unexpired portion of the warranty.

This warranty is transferable only if the re-sold product is purchased from an Authorized Anthem Dealer. Display products sold by an Authorized Anthem Dealer are covered by the same warranty except that the period commences on the date of the dealer invoice, not the purchaser's invoice, and cosmetic flaws are excluded.

Warranty is void if the serial number has been removed, altered or defaced, if the product has been operated, installed or handled other than in accordance with the intended application, tampered with, modified, or damaged by accident, while in transport or by failure of electric power, or has been repaired by a non-authorized party. Anthem shall have no obligation to correct any defect that is not reproducible by Anthem. If inspection by Anthem discloses that the repair required is not covered by this warranty, regular repair charges shall apply.

If a problem is discovered in your Anthem product, please contact the Authorized Anthem Dealer from whom you purchased the product. Your dealer will help to determine the cause of the problem and arrange for the appropriate action. Alternatively, follow the procedure below for factory service.

A Return Authorization (RA) number must be obtained from Anthem Technical Support before a product can be shipped to Anthem for any reason. Product shipped to Anthem without its RA Number clearly visible on the outside of the shipping carton will be refused and returned to the sender, freight collect. Product shipped to Anthem must have shipping and insurance prepaid by the sender, be packaged in the original carton and packing material and accompanied by a written description of the defect. Service will not be given under warranty without an accompanying copy of the sales invoice. Product repaired under warranty will be returned with shipping and insurance prepaid by Anthem (within Canada and continental USA only).

Disclaimer of Liability

Under no circumstances shall Anthem, its agents, representatives or employees assume liability or responsibility for injury or damages sustained in the use or operation of Anthem products or for damages to connected products. Some jurisdictions do not allow limitations of incidental or consequential damages so this exclusion may not apply to you.

Anthem reserves the right to make design changes without obligation to revise prior versions. All specifications are subject to change without notice.

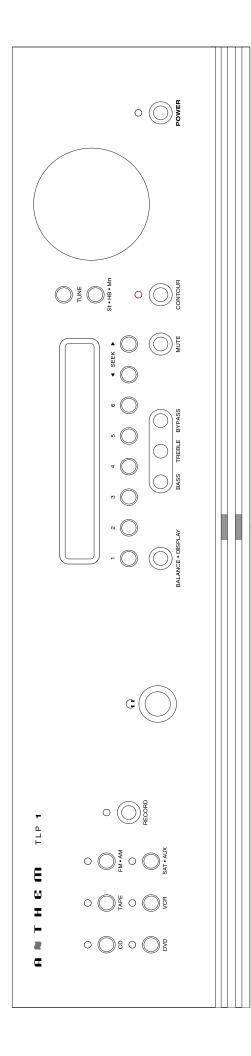
This warranty shall be the sole and exclusive remedy to you. No other warranty or condition, statutory or otherwise, expressed or implied, shall be imposed upon Anthem nor shall any representation made by any person, including a representative or agent of Anthem, be effective to extend the warranty coverage provided herein.

On the expiration of the warranty all liability of Anthem in connection with the product shall terminate.

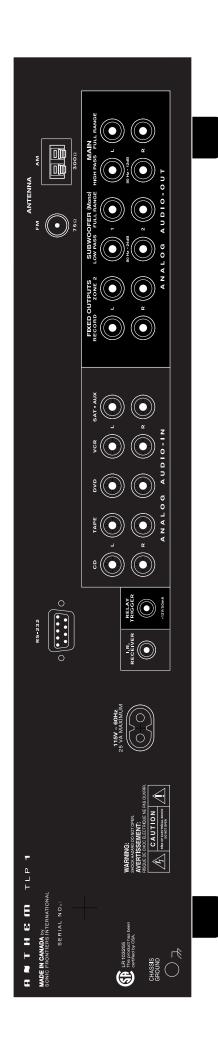
INTERNATIONAL

Terms and conditions are set and maintained by the Authorized Anthem Distributor, not Anthem.

THE BIG PICTURE FRONT PANEL



THE BIG PICTURE REAR PANEL





DESIGNED AND MANUFACTURED IN NORTH AMERICA

tel. (+1) 905-362-0958 M-F 9:00 am - 5:30 pm (ET) www.anthemAV.com

0 M - 85 0 3/2 4/0 9