



AT2505 5-CHANNEL POWER AMPLIFIER OWNER'S GUIDE

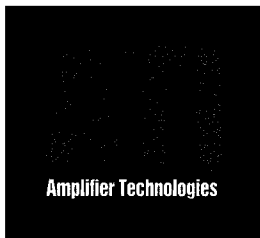


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Introduction

Thank you for purchasing the AT2505 Power Amplifier. Your power amplifier was conceived, designed and manufactured in the USA, and has been built to the highest standards of quality and value. Take a few moments to review the rest of the owner's guide as it contains information relevant to the proper use of the amplifier.

Unpacking

The AT2505 has been carefully inspected, tested and packed before leaving the factory. Immediately upon receiving your amplifier, inspect the carton for evidence of mishandling during shipment. Then, carefully unpack the amplifier and inspect it for damage. We suggest that you open the carton from the bottom, then carefully turn the box over and lift the carton away from the amplifier, thus facilitating access to the unit.

Please save the shipping carton and all inner packing materials in the event that the amplifier needs to be shipped for service or moved to a new location. Should you discover that the amplifier has been damaged during shipping, please contact your dealer or ATI immediately and request the name of the carrier so a written claim can be made.

THE RIGHT TO A CLAIM AGAINST A PUBLIC CARRIER CAN BE FORFEITED IF THE CARRIER IS NOT NOTIFIED PROMPTLY IN WRITING AND IF THE SHIPPING CARTON AND PACKING MATERIALS ARE NOT AVAILABLE FOR INSPECTION BY THE CARRIER. SAVE ALL PACKING MATERIALS UNTIL THE CLAIM HAS BEEN SETTLED.

Precautions

The amplifier is a wideband design with substantial power output capability. Certain precautions must be taken to ensure proper operation.

THE AT2505 UTILIZES A 20 AMPERE CIRCUIT BREAKER INSTEAD OF A FUSE AND A 20 AMP, 12-GAUGE, 3-PRONG DETACHABLE POWER CORD. THE PRONG CONFIGURATION ON THIS TYPE OF POWER CORD IS DIFFERENT FROM 15 AMP TYPES. THE AT2505 REQUIRES A 20 AMP CIRCUIT IN ORDER TO ENSURE PROPER OPERATION. MAKE SURE THAT A 20 AMP CIRCUIT IS AVAILABLE WHERE THIS AMPLIFIER WILL BE USED. IF UNCERTAIN, CALL AN ELECTRICIAN. HOMES MAY BE WIRED WITH 20 AMP CIRCUITS BUT THE WALL RECEPTACLES MAY ONLY BE 15 AMP RATED. THESE WALL RECEPTACLES CAN EASILY BE CHANGED TO 20 AMP RECEPTACLES AT A NOMINAL COST. IF YOU ARE UNCERTAIN AS TO THE NATURE OF HOW YOUR HOME IS WIRED OR IF YOU ARE NOT WELL VERSED IN ELECTRICAL WIRING, DO NOT ATTEMPT TO MAKE ANY CHANGES YOURSELF. CALL AN ELECTRICIAN FOR ASSISTANCE.

1. Never expose the unit to moisture.
2. Never plug an input cable into the amplifier while the amplifier is turned on.
3. Never apply the "thumb test" (touching the "hot" lead of the input cable with your finger) to the tip of the input cable or input jack of the amplifier. RF rectification and/or hum will be created and almost surely will damage the loudspeakers. ATI will not be responsible for damage to the loudspeakers due to improper use of the equipment.
4. Under no circumstances should the output terminals of the amplifier be short-circuited.
5. Avoid restricting the airflow around the unit. Good airflow is necessary to help ensure proper operation.
6. Be sure that the loudspeakers connected can handle the output power of the amplifier at the loudspeakers' rated impedance. The warranty on the amplifier does not cover damage to loudspeakers that have inadequate power handling capabilities.
7. Do not stack other system components or any other materials directly on top of the unit. The heat-dissipating system of the amplifier depends on free flowing air around the chassis.

WARNING: DO NOT OPEN AMPLIFIER, RISK OF ELECTRICAL SHOCK! DO NOT ATTEMPT SERVICING THIS UNIT YOURSELF. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

Safety Instructions

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

Read all the safety and operating instructions before connecting or using this unit.

All warnings on the unit and in this operating manual should be adhered to.

All operating and use instructions should be followed.

Do not use this unit near water: for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool.

This unit should be installed so that its location or position does not interfere with its proper ventilation. For example, it should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or placed in a built-in installation, such as bookcase or cabinet, that may impede the flow of air through its ventilation openings.

The unit should be situated away from heat sources such as radiators, heat registers, stoves, or other devices (including amplifiers) that produce heat.

The unit should be connected to a power-supply outlet only of the voltage and frequency marked on its rear panel.

The power-supply cord should be routed so that it is not likely to be walked on or pinched, especially near the plug, convenience receptacles, or where the cord exits from the unit.

Clean unit only as recommended in this instruction manual.

The power-supply cord of the unit should be unplugged from the wall outlet when it is to be unused for a long period of time.

Care should be taken so that objects do not fall, and liquids are not spilled, into the enclosure through any openings.

The unit should be serviced by qualified service personnel when:

- A. The power cord or the plug has been damaged; or
- B. Objects have fallen, or liquid has been spilled, into the unit; or
- C. The unit has been exposed to rain, or liquids of any kind; or
- D. The unit does not appear to operate normally, or exhibits a marked change in performance; or
- E. The device has been dropped, or the enclosure damaged.

To prevent electric shock, do not use the polarized plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

Notes On "Hum"

When there is an audible "hum" through your loudspeakers, even with the volume control low or off, you have a common problem known as a "ground loop". A "ground loop" is basically a difference in ground voltages between two or more components which are connected electrically and which creates multiple current paths where there should be only one. This difference in potential causes a low-level noise we call "hum".

With the growing sophistication of home theater systems, the potential for ground loops is enormous. Do not automatically assume that one or more of your components are at fault, or even defective. Lately, one of the biggest culprits is the Cable-TV incoming signal line.

Almost 100% of the cases where hum has been a problem has been due to one or more of the above conditions. The following notes will help you to determine its cause:

Note 1:

Cable TV systems can sometimes contribute to ground loop problems which cause hum. To determine if your cable system is the contributing factor, disconnect the Cable TV incoming signal line (round 75 Ohm) at the wall, or the first component the cable is connected to (i.e. the cable box, or VCR). If the hum is no longer present, you must insert a 75 Ohm Ground Loop Isolator before reconnecting the line. You should check with your ATI dealer to obtain one. If the 75 Ohm Ground Loop Isolator works only partially, or not at all, then please read *Note 2*, *Note 3* and *Note 4*.

Note 2:

Turn the system off and disconnect all inputs from the amplifier. If the hum persists consult with your dealer or ATI directly. If the hum disappears, try another set of input cables. Connect one cable at a time to see if one specific cable is responsible. If any or all cables cause the hum to appear, then your preamp or processor should be evaluated for proper operation.

Note 3:

AC ground-prong loop produces a fairly loud hum. When installing a system that uses three-wire AC cords with grounding-type plugs, note the units that have them. If it is impractical to rewire your house with an isolated star ground configuration, you may want to try a power isolation transformer.

WARNING: DO NOT, UNDER ANY CIRCUMSTANCES LIFT THE GROUND (eliminate the round, 3rd prong) FROM THE PLUG USED WITH THE AT2505—SEVERE SHOCK MAY RESULT!

Note 4:

Hum may also be caused by faulty earth-grounds from your house. In the past, cold water pipes often were relied upon for earth ground. Check to make sure that your ground connection is still valid and has not become loose or corroded. The cold water pipe method may no longer be valid because some municipalities require that the water meter be isolated from the water mains with a length of PVC pipe, thus interrupting the ground. The safest and most reliable approach is to provide your own ground. Drive at least five feet of copper-jacketed steel grounding rod into the earth and use that for the ground. If you suspect a grounding problem, we suggest you call an electrician or your local electric company to inspect/repair the problem.

If the hum still persists after you have tried ALL of the above, please contact your dealer or ATI's Service Department.

Cooling

WARNING: AN AMPLIFIER'S PERFORMANCE MAY DETERIORATE IF IT OVERHEATS. TEMPERATURE AND VENTILATION ARE KEY FACTORS IN PROPER OPERATION. NOT ONLY SHOULD YOU PROVIDE ENOUGH SPACE AROUND THE UNIT, BUT ALSO ENSURE THAT AIR CAN FLOW FREELY AND ESCAPE FROM THE AMPLIFIER'S SURROUNDINGS.

Placement

During normal home operation the heatsinks of the AT2505 will become warm. However, there are instances during high-level playback into low impedance speakers when the heatsinks will become much warmer than usual. To ensure the amplifier's trouble-free operation, it is necessary to provide adequate ventilation for the heatsinks. The AT2505 should be kept away from external sources of heat such as radiators and hot-air ducts. The AT2505 should never be placed with other heat-producing components in a cabinet or enclosure lacking free air flow.

If you must mount the AT2505 in an enclosed cabinet, it is recommended that the rear panel of the cabinet be provided with ventilation openings at the top and bottom to allow air to circulate freely in the cabinet. The top and bottom panels of the amplifier's chassis have been engineered with vents to allow the necessary cooling of the internal components. Do not obstruct these openings in any way.

Do not stack other components on top of the AT2505. This is critical if you are using low impedance loudspeakers which are difficult to drive, or if you constantly play your system at high levels.

Rack Mounting

Your amplifier may be mounted in a standard 19-inch rack by using the optional Rack Mount Panel.

CAUTION: THE RACK MOUNT PANEL CANNOT SUPPORT THE WEIGHT OF YOUR AMPLIFIER. BE SURE TO MOUNT THE UNIT ON A STRONG, WELL-SUPPORTED SHELF.

Electrical Connections

In order to have the wiring concealed, all electrical connections are made in the rear of the amplifier.

CAUTION: ALL CONNECTIONS SHOULD BE MADE WITH THE AC POWER CORD UNPLUGGED AND THE POWER SWITCH IN THE STANDBY (OFF) POSITION. UNDER NO CIRCUMSTANCES SHOULD CONNECTIONS TO EITHER THE INPUT OR OUTPUT JACKS BE MADE WITH THE POWER ON.

Input Connections

Well-shielded audio cables should be used for the input connections. The input jacks have been gold-plated to provide low contact resistance, long life, and minimal susceptibility to corrosion. Be sure to use only high-quality coaxial cables with standard RCA-type pin jacks to connect the amplifier to a preamplifier or the main output terminals of the control unit. DO NOT common ground the input grounds with the output ground (black) terminals.

Output Connections

The output connections are gold-plated, internationally-approved, touch-proof binding posts which will accept bare or soldered wire, spade lugs, or banana jacks. This type of connector provides a solid connection with the speaker wires and eliminates the potential for electric shock. The outputs are marked LEFT, CENTER, RIGHT, LEFT REAR, RIGHT REAR.

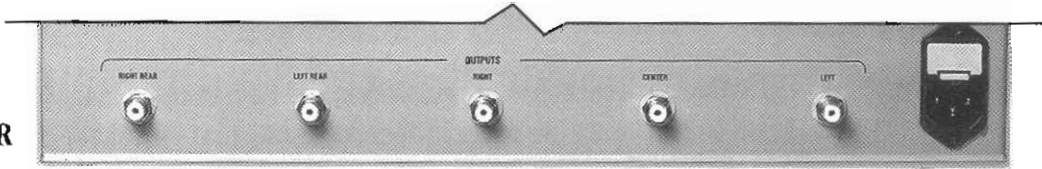
Loudspeaker Phasing

To obtain proper phasing and correct bass response, it is necessary that all channels be connected in phase. The correct phasing occurs when speakers move in and out in unison (in phase) on monophonic program material. Speakers connected in phase ensure proper imaging (placement of instrument and vocalist) while an out-of-phase connection causes indistinct or confused imaging. The simplest way to effect proper phasing is to closely inspect the cable being used for some form of wire coding. Some forms of wire markings are a ridge or a groove on one side of the wire, one lead copper colored while the other is silver colored, or a colored stripe on one edge. The marked side should be attached to the positive (red) terminals of each loudspeaker and the other end attached to the positive (red) terminal of the corresponding channel's binding post. Follow this procedure for all channels.

Loudspeaker Ratings

Virtually any loudspeakers can be connected to, and driven by the AT2505. The AT2505 can drive low impedance speakers at more than adequate power levels with no difficulty. Many loudspeaker systems which are nominally rated at 4 Ohms will drop in impedance in some parts of their frequency range, often to 2 Ohms. You should not experience any problems at these low impedances unless you demand excessively high volume levels. Because the power output capability of the AT2505 is very high, it is important to determine the maximum input power rating of your speaker system. The speaker power rating must equal or exceed the power output rating (at corresponding impedance) of the amplifier to protect the speakers from possible damage. ATI cannot be held responsible for damage to a speaker system or individual component whose power rating is lower than that of the amplifier.

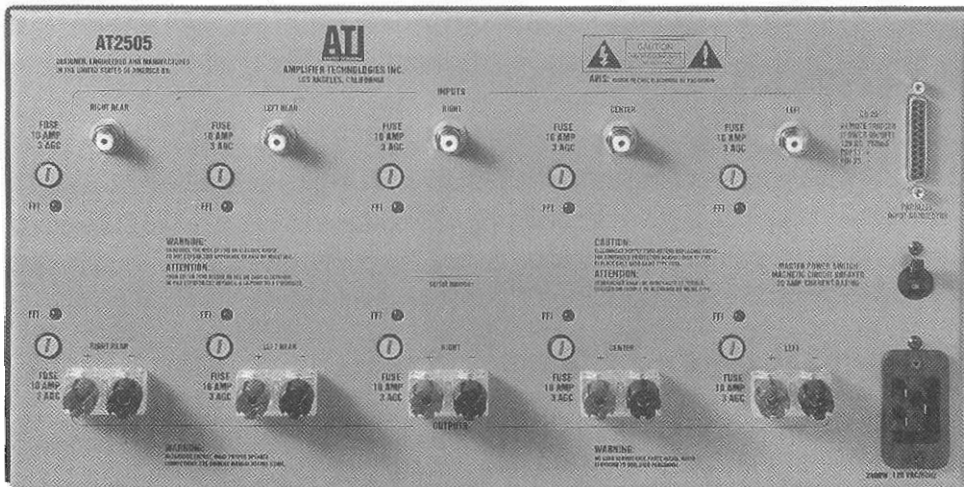
OUTPUTS FROM PREAMPLIFIER



RCA CABLES

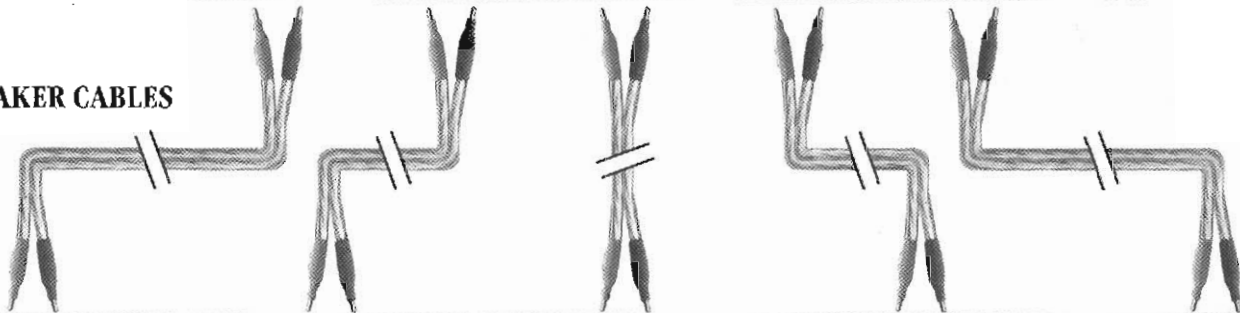


INPUTS TO POWER AMPLIFIER



OUTPUTS TO SPEAKERS

SPEAKER CABLES



RIGHT REAR SPEAKER

LEFT REAR SPEAKER

RIGHT FRONT SPEAKER

CENTER SPEAKER

LEFT FRONT SPEAKER

Operation

Your AT2505 is equipped with a special Remote-Power-On feature which is used to turn the amplifier on remotely from another source (see Remote-Power-On). If you are using this feature you must be sure that the volume control of your control unit or preamplifier is turned all the way down to prevent possible damage to your loudspeakers.

If not using the Remote-Power-On feature, ALWAYS turn on the complete system and wait 30 seconds before turning on the amplifier. Some associated pieces of equipment generate voltage transients during turn-on and may continue to do so for several seconds afterwards. By turning the amplifier on LAST, these transients are prevented from reaching and possibly damaging loudspeakers. The reverse procedure applies when turning the unit off. ALWAYS turn the amplifier off FIRST, waiting 15 seconds for the power supply to discharge or the audible level of the program source to diminish to inaudible levels.

Power Switch

The AT2505 is equipped with a high-current capacity power switch with two positions: POWER and STANDBY. If you are not using the Remote-Power-On feature (see below) the POWER position will turn the AT2505 on and the STANDBY position will turn the unit off. If using the Remote-Power-On feature, the power switch must be in the STANDBY position.

Remote-Power-On

This standard feature allows the AT2505 to be turned on and off remotely via a control console, preamplifier, or a simple 12V DC, 500 mA transformer (wall mount type). The Remote-Power-On feature is activated via a high-current relay inside the AT2505 and connected via the DB-25 connector. See DB-25 connector for details.

DB-25 Connector

The standard DB-25 connector enables the use of a single "master cable" which attaches to those preamplifiers or consoles similarly equipped. The pins on the DB-25 connector are gold-plated to prevent possible corrosion. Connections enabled are the five inputs as well as the Remote-Power-On trigger. Please refer to the pin assignments chart at right when using this feature.

Male DB-25 connectors are quite common and inexpensive. They may be obtained from your dealer or any electronic parts store.

Make sure all connections are inside a metal case, male DB-25 connector with gold pins if possible.

DB-25 CONNECTOR PIN ASSIGNMENTS

1	Left +
14	Left Ground
2	Center +
15	Center Ground
3	Right +
16	Right Ground
5	Left Surround +
18	Left Surround Ground
6	Right Surround +
19	Right Surround Ground
11	Remote Trigger A (Power ON/OFF) DC +
23	Remote Trigger A Ground DC -

Peak Indicator LEDs

Your amplifier has been equipped with LEDs on the front panel which will indicate the operating status of each channel. The PEAK LEDs will illuminate when maximum power output is reached or exceeded. If the LEDs are illuminated most of the time, you are overdriving the amplifier. Turn the volume control down in order to prevent possible damage to your loudspeakers.

Circuitry

The amplifier is totally complementary from input to output. This is achieved by using dual-differential input stages. These input stages are then followed by full complementary push-pull pre-drivers. These in turn are direct-coupled (all stages after the AC coupled input are DC coupled) to two push-pull drivers. All stages up to this point are operated in true Class A. The drivers then drive the full complementary output stage consisting of 8 high-current transistors per channel.

The power supply section of the amplifier consists of a highly efficient silicon steel (grain oriented) toroidal transformer core which has five separate bifilar wound secondaries to provide excellent voltage regulation and current reserve. A further benefit of this transformer design is the low operating temperatures. The filtering section of the power supply for each channel consists of two 12,000 microfarad capacitors. Thus, the AT2505 5-channel amplifier has a total of 120,000 microfarads capacitance.

The AT2505 is equipped with a thermal protection circuit for each channel. If the temperature of a heatsink reaches 85°C, that channel will shut down. The thermal protection circuit may be triggered by excessive power demands into lower impedance speakers than the amplifier is designed to drive or by inadequate ventilation. The amplifier will resume normal operation when the heatsink returns to a safe operating temperature. This condition may be remedied by lowering the volume, correcting the low impedance problem or providing proper ventilation.

AC Line Connector And Power Cord

The AT2505 is supplied with an internationally-approved (IEC) power line connector which accepts the supplied detachable, high-current capacity, power cord.

WARNING: UNDER NO CIRCUMSTANCES SHOULD THE ROUND THIRD PRONG BE CUT, BENT OR IN ANY WAY DEFEATED AS THIS MAY RESULT IN SEVERE SHOCK.

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Circuit Breaker

Your amplifier is supplied with a 20 Ampere, heavy duty circuit breaker instead of a fuse. The circuit breaker is located on the back panel of the AT2505 and may be used as a master power switch.

WARNING: ALWAYS TURN OFF THE AMPLIFIER AND UNPLUG THE POWER CORD BEFORE MAKING ANY ELECTRICAL CONNECTIONS.

Fuse Fault Indicators

The AT2505 is equipped with the unique Fuse Fault Indicator (FFI) circuitry which provides for simple diagnostics and/or repair if needed. Each channel has two 3AG, 10AMP @ 125V AC rail fuses and LEDs which will light if a fuse becomes inoperable.

WARNING: ALWAYS REPLACE A BLOWN FUSE WITH THE SAME TYPE. USING A HIGHER RATED FUSE WILL VOID THE WARRANTY AND MAY DAMAGE THE AMPLIFIER. SPARE FUSES ARE SUPPLIED WITH THE AMPLIFIER.

Detachable Modular Component (DMC³)

Your AT2505 employs the unique Detachable Modular Component (DMC) design which provides unit-to-unit quality consistency as well as efficient serviceability. In the unlikely event of a channel failure, the module may be removed for servicing thereby eliminating the need to return the whole unit.

CAUTION: IN NO CASE SHOULD YOU REMOVE THE MODULE BY YOURSELF. CONSULT WITH YOUR DEALER OR ATI FOR PROPER DIAGNOSIS OF THE PROBLEM.

AT2505 Specifications

The following applies to all five channels being driven simultaneously with 8 ohm loads and an input sensitivity of 28dB gain unless otherwise specified.

Frequency Response

±0.1dB from 20Hz to 20kHz at 1 watt

Phase Response

+5 to -15 degrees from 20Hz to 20kHz at 1 watt

Signal-to-Noise Ratio "A-Weighted"

Greater than 120dB below rated FTC Full Bandwidth Power

Total Harmonic Distortion (THD)

Less than 0.03% at full rated FTC power from 20Hz to 20kHz

Less than 0.005% at full EIA power at 1kHz

Intermodulation Distortion (IMD)

Less than 0.03% from 250 milliwatts to full rated FTC power

EIA 1kHz Output Power*

330 watts @ 8 ohms, 500 watts @ 4 ohms

FTC Full Bandwidth Output Power**

250 watts @ 8 ohms, 375 watts @ 4 ohms

Power Bandwidth FTC

+0-3db from 5Hz to 100kHz

Damping Factor

Greater than 1,000 from 10Hz to 400Hz

Crosstalk

Greater than 90dB from 20Hz to 20kHz

Gain

Voltage gain of 28dB

Slew Rate

50V/microsecond

Input Impedance

Nominally 28k ohms

Input Sensitivity

1.2 volts for full rated power

Load Impedance

Safe with all types of loads. Rated for 4 to 16 ohms

DC Output Offset

Less than ±5mV

Chassis Dimensions (WHD)

17 x 8.75 x 18 inches (431.8 x 222.3 x 457.2 mm)

Rack Mount Panel (Optional)

Standard 19 inches (482.6 mm) rack mounting (EIA RS-310-B)

Weight

Net 106 lbs (48.2 kg) Shipping 116 lbs (52.7 kg)

*EIA 1kHz Power refers to maximum average power in watts at 1kHz with 0.005% THD and noise.

**FTC Full Bandwidth Power refers to maximum average power in watts from 20Hz to 20kHz with 0.03% THD and noise.

All descriptions and specifications are subject to change without notice.

General Maintenance And Service

Great care has been taken to ensure that your amplifier is as flawless in appearance as it is in performance. The front panel is finished with a high-grade anodizing process for durability as well as beauty. It is best cleaned with a soft cloth dampened with a mild solution of liquid detergent and water.

CAUTION: UNDER NO CIRCUMSTANCES SHOULD A LYE SOLUTION, POWDERED CLEANSER, OR ABRASIVE CLEANER BE USED ON THE UNIT.

In the event that the unit must be returned to the factory, a Return Authorization Number (R.A.#) must be requested from Amplifier Technologies, Inc. prior to shipping the unit to ATI. Under no circumstances should the unit be shipped to ATI without prior authorization. Please contact:

Amplifier Technologies, Inc. 1749 Chapin Road, Montebello, CA 90640 Phone: 213-278-0001 Fax: 213-278-0083

It is important that you include a note describing the problem you are experiencing with the unit so that repair technicians may provide better service. The unit must be sent freight **PREPAID** to ATI and we will return it to you on a prepaid basis (continental U.S. only).

In order to assure its safety, use only the original packing and carton. If you no longer have the proper packing materials, a duplicate set may be ordered for a minimal charge. Never ship your unit via Parcel Post.

CALL ATI FOR SHIPPING INSTRUCTIONS.

Warranty (USA Only)

LIMITED SEVEN-YEAR WARRANTY

This ATI product is warranted against defects in materials and workmanship for seven years from the date of purchase by the original owner. The date of purchase shall be established by the original owner presenting to the ATI Customer Service Facility the original owner's purchase receipt or sales slip showing from whom the product was purchased, the date of purchase and the purchase price of the unit. In the event that proof of purchase cannot be established as stated in the preceding sentence, the warranty period shall commence on the date of manufacture, provided the serial number on the unit has not been altered in any manner. During the warranty period, ATI will repair, or at its option, replace at no charge, components that prove to be defective provided the product is returned in accordance with the shipping instructions which are contained in the unit. The unit is to be sent PREPAID via UPS to ATI in the event it needs factory servicing. ATI will return it prepaid to you upon completion of the service.

This warranty does not apply if the product has been damaged by accident or misuse or as a result of modification by other than the ATI factory service facility.

ATI shall not be held liable for consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

THERE ARE NO WARRANTIES GIVEN BY ATI WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. ALL IMPLIED WARRANTIES OF FITNESS FOR PURPOSE SOLD, MERCHANTABILITY, DESCRIPTION, QUALITY PRODUCTIVENESS OR ANY OTHER MATTERS ARE LIMITED TO THE SEVEN-YEAR TERM OF THE EXPRESS WARRANTY HEREIN STATED.

Some states do not allow limitations on how long an implied warranty may last, so the above limitation may not apply to you.

Obligation To Make Changes

Products are sold on the basis of specifications applicable at the time of sales. ATI shall have no obligation to modify or to update products once sold.

This warranty gives you specific rights and you may also have other rights which vary from state to state. This warranty is applicable only in the United States.

Save For Your Reference

Date of Purchase _____

Model Number _____

Serial Number _____

Where Purchased _____

Notes _____
