



**AT6000 SIGNATURE SERIES
PURE BALANCED™
2 TO 7-CHANNEL POWER AMPLIFIER
OWNER'S GUIDE**

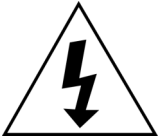


Please Read First



CAUTION: To reduce the risk of electrical shock, do not remove the cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.

WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.



The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electrical shock to persons.



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

PRECAUTIONS:

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

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 could cause damage to 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 insure 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.

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 cords 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:

1. The power cord or the plug has been damaged; or
2. Objects have fallen, or liquid has been spilled, into the unit; or
3. The unit has been exposed to rain, or liquids of any kind; or
4. The unit does not appear to operate normally, or exhibits a marked change in performance; or
5. 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.

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AT6000 Signature Series Pure Balance™ Power Amplifiers

Congratulations! Thank you for purchasing our Signature Series Amplifier. Designed, engineered and manufactured in the United States, it offers significant advances in circuit topology and performance over virtually all currently available amplifiers.

The AT6000 Signature Series is comprised of six models; AT6002 two-channel amplifiers, AT6003 three-channel amplifiers, AT6004 four-channel amplifiers, AT6005 five-channel amplifiers, AT6006 six-channel amplifiers and the AT6007 seven-channel amplifiers. This manual covers all six models with the only difference being the number of channels.

In order to receive the maximum performance from your new amplifier, please take a few minutes to read this manual. This important information will help you make certain that the amplifier is properly configured for operation with the rest of the equipment in your system. If you have any questions about this product, its installation or operation, please contact us via e-mail at support@ati-amp.com or via telephone at (323) 278-0001.

Features

Your new ATI amplifier is a state of the art, high performance, audio component. It is built utilizing fully balanced circuitry. Dual custom-designed, toroidal transformers drive the high current power supply with independent secondary windings for each channel. Each output module employs an advanced optically coupled protection circuit that replaces the need for bothersome fuse changes. The amplifier is cooled by convection through the use of custom designed, efficient heat sinks.

Unpacking

The carton and packing materials used in shipping your new amplifier were specially designed to protect it from the shock and vibration of shipping. We strongly suggest that you save the carton and packing materials to use if you move, or if the unit ever needs to be shipped back to us for any reason. Should you discover that your amplifier has been damaged during shipping, please contact your dealer or ATI immediately and request the name of the carrier so a written claim may 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 IS SETTLED.

Placement

During normal home operation the chassis and top-cover of the amplifier will become warm. However, there are instances during high level playback into low impedance speakers when the chassis and top-cover may become much warmer than usual. To ensure the amplifier's trouble-free operation, it is necessary to provide adequate ventilation for the heat sinks. Your amplifier should be kept away from external sources of heat such as radiators and hot-air ducts. The amplifier should never be placed with other heat-producing components in a cabinet or enclosure lacking free airflow. Do not stack other components on top of your amplifier.

Handles and Rack Mounting

The handles on the AT6000 Series may be removed by using an Allen wrench. Carefully remove the four socket-head cap screws and replace them with screws of the same diameter and pitch, but only 1 inch long. Do not use longer bolts as they may penetrate too deeply and damage internal parts. Your amplifier may be mounted in a standard 19-inch rack by using the optional 19-inch 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.

Getting to Know the Rear Panel

A. Balanced XLR Audio Inputs

Use the BALANCED INPUT jacks to connect to the outputs of a preamplifier or other control device with XLR outputs.

B. Input Selector Switch

Selects either the BALANCED INPUT (XLR) or the UNBALANCED (RCA) INPUT jack.

C. Unbalanced Audio Inputs

Use the UNBALANCED INPUT jacks to connect to the outputs of a preamplifier, receiver with preout connections, CD player, or other source device with RCA style outputs.

D. Product Serial Number

Enter into the space provided on Page 10.

E. Ground Terminal

Use to interconnect chassis where necessary.

F. Master Power Switches

Turns the current to each bank of the amplifier on or off.

G. Remote Trigger Input

Use the REMOTE TRIGGER jack to connect to a compatible preamplifier, source device, or other product with a 3.3-24 VDC output.

H. Speaker Outputs

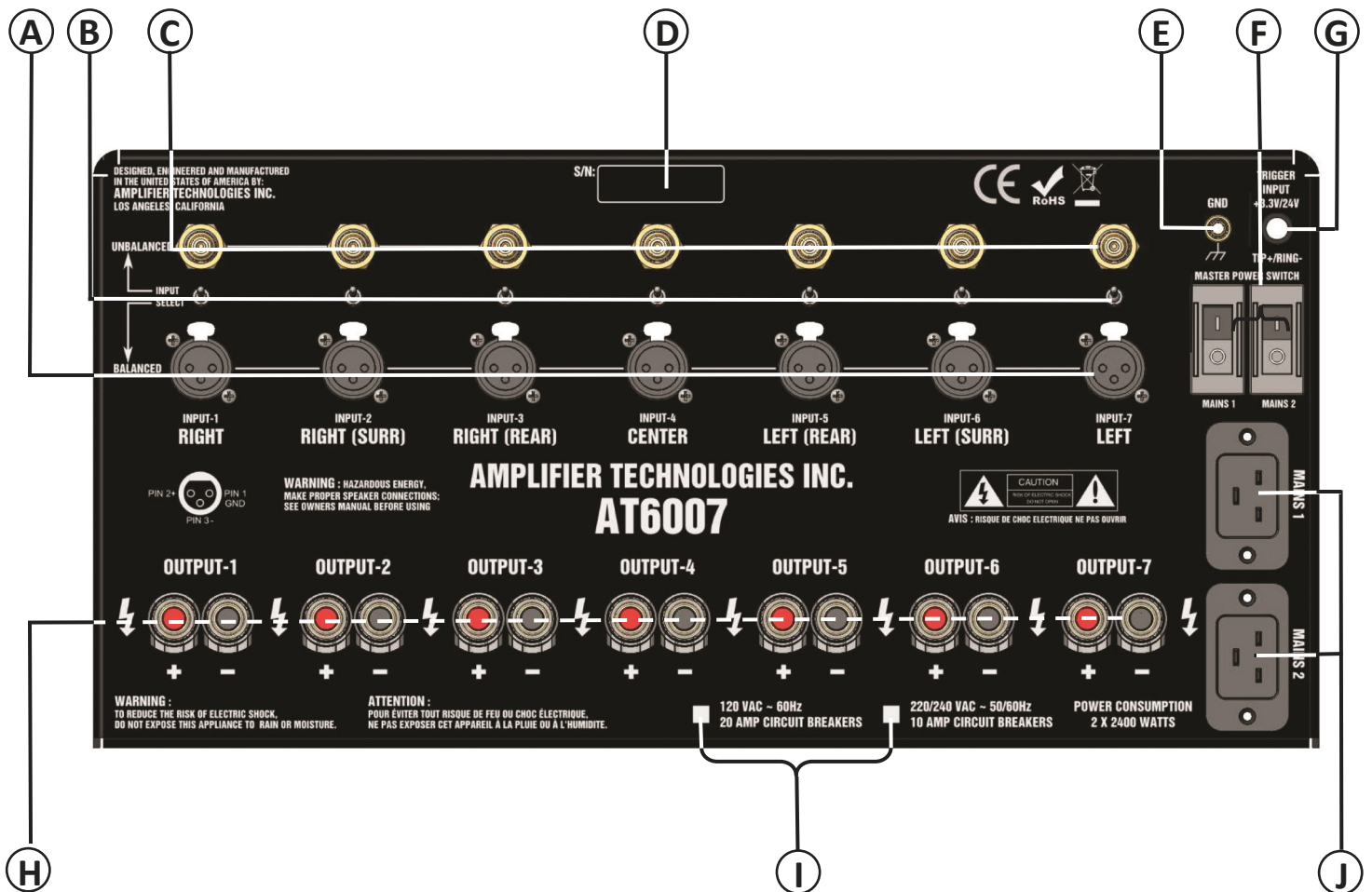
Use the OUTPUT binding posts to connect the amplifier to your speakers; red for positive, black for negative.

I. Power Supply Voltage Indicator

120V units are marked with a green dot, 240V units are marked with an orange dot.

J. AC Input

Use the included power cords to connect your amplifier to an AC power source. For maximum power, two independent circuits should be used.



Connecting Your Amplifier

When making connections between any source components and the amplifier, or when making connections to any speaker, be certain that both the input devices and the amplifier are turned off. To assure that there will be no unwanted signal transients that can damage equipment or speakers, it is always best to unplug all equipment before making any connections.

Input Connections

Connecting the amplifier to your source equipment is simple. Using high-quality XLR cables or audio interconnect cables, match the output channel designations on the rear of your source equipment to the balanced input jacks or unbalanced inputs jacks on the rear panel of your amplifier that have the same channel name. When making connections with RCA type plugs or XLR connectors on interconnect cables, make certain to gently, but firmly, insert the plug into the jack and make sure that they are firmly seated. Loose connections can cause intermittent sound and may damage your speakers. Some quality plugs may be very tight, and it is important to assure a proper connection between the interconnection cable and the input jack. Be careful to match the type of input you have decided to utilize on your amplifier with the same type on your preamp or other source device. Do not mix types, i.e. do not use an RCA type jack on one end and an XLR connector on the other as this will defeat the output. Once you have chosen the type of connectors and made the connections, be sure that the small toggle switches located between the RCA and XLR jacks are thrown toward the connector being used. There will be no output if the toggle switches are in the wrong position.

NOTE: *There is an XLR pin assignment diagram located just above the binding posts for Output-1. Make certain that the cables/ connectors you choose utilize the same order of wiring to your preamp or other source device...they may be different. Failure to ensure this continuity will result in a malfunction. Please consult with your dealer if there is any doubt.*

Speaker Connections

To assure that the high quality signals produced by your amplifier are carried to your speakers without loss of clarity or resolution, we recommend that you use high quality speaker wire. Many brands of wire are available; the choice may be influenced by the distance between your speakers and the amplifier, the type of speakers you use, personal preferences, or other factors.

Regardless of the brand or type of speaker wire selected, we recommend that you use a wire constructed of fine, multi-strand copper with a gauge of 14 or less. In specifying wire, the lower the number, the thicker the cable. 16 gauge wire may be used for short runs of less than twenty feet. We do not recommend that you use any wires with an AWG equivalent of 18 or higher due to the power loss and degradation in performance that will occur.

To connect the amplifier to your speakers, a pair of binding posts is provided for each channel output. These posts will accept bare wire, spade lugs or banana type plugs. If bare wire is used for the connections, strip approximately 1/2 inch to 3/4 inch of insulation from the end of each wire and carefully twist the strands of each conductor together.

Be careful not to cut the individual strands or twist them off. All strands must be used for optimal performance.

Correct polarity connections are important to maintain proper speaker phasing. When speaker phasing is correct, all speakers move in and out at the same time, preserving the imaging of the program material. Out-of-phase connections mean that some speaker cones will be moving in, while others move out. This will cause indistinct or confused imaging, and muddled and cloudy sounds. To avoid incorrect phasing or polarity, be certain to use wire that has distinct markings, colors, stripes, wording, or grooves on each side of the speaker cable. When making connections to the amp and speakers, adhere to a consistent pattern of using one side of the wire to the red terminals and the other side to the black terminals. When using cable with markings on one side only, traditional convention is to consider the marked side of the wire as the red, or positive (+) connection, and the non-marked side as the black or negative (–) connection.

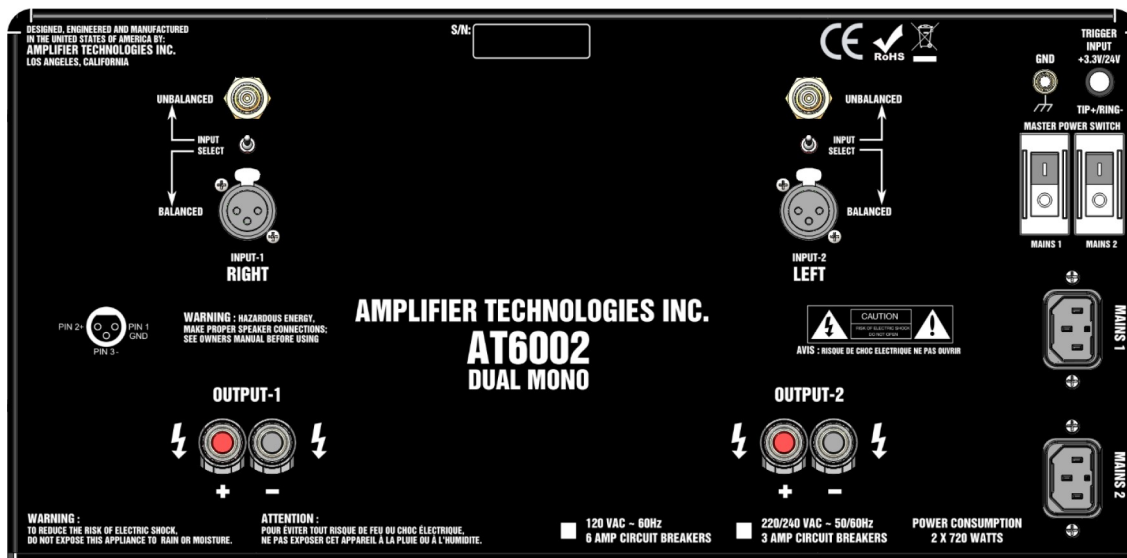
Next, loosen the knobs of the amplifier's speaker output terminals, far enough so that the pass through hole is revealed. Follow the proper connection instructions for your system with regard to which terminals are used. Once the connections are made, twist the cap back so that the connection is secured, but do not over tighten or use tools, as this may break the delicate wire strands and decrease system performance.

If you are using spade lugs, connect them to the speaker wire using the manufacturer's instructions, and then loosen the caps on the speaker terminals. Place lugs between the plastic cap and the back of the terminal. Be sure to observe proper polarity, using the appropriate speaker hook-up icons for your system's configuration. Using your fingers, tighten to obtain a positive contact.

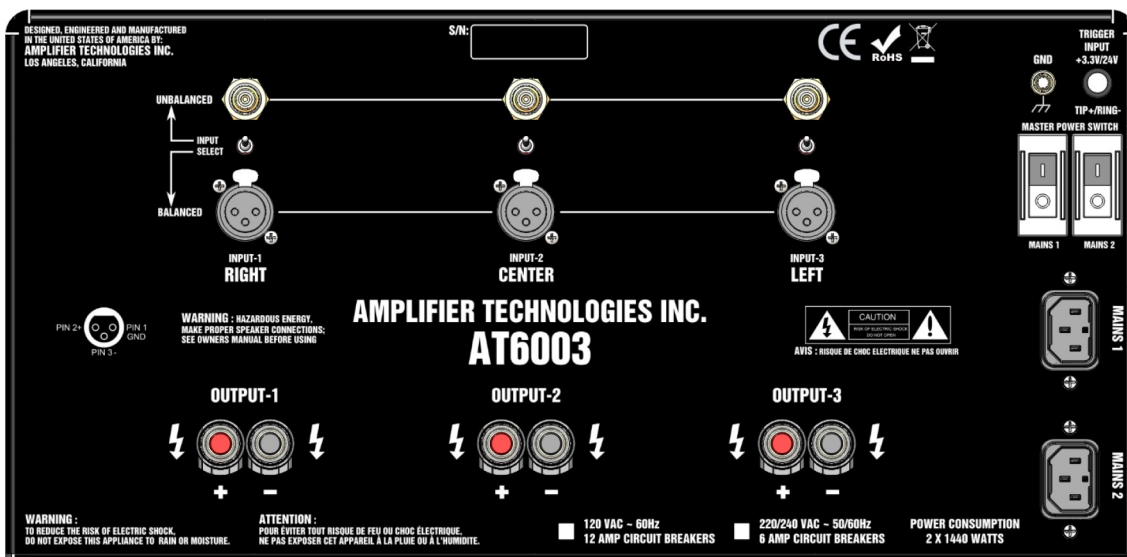
When using banana plugs, connections may be made by simply inserting the jack affixed to your speaker wire into the hole provided on the rear of the colored screw caps on the binding posts. Before using banana type jacks, make certain that the plastic screw caps are firmly tightened down by turning them in a clockwise direction until they are snug against the chassis. This will insure that the maximum surface area of the plug is in contact with the jack. Be certain to observe proper polarity.

Run the cables to the speaker locations. Do not coil any excess cable, as this may become an inductor that creates frequency response variations in your system. Finally, connect the wires to the speakers, again being certain to observe proper polarity. Remember to connect your negative, or black wire, to the matching terminal on the speaker. The positive, or red wire, should be connected to the matching terminal on the speaker.

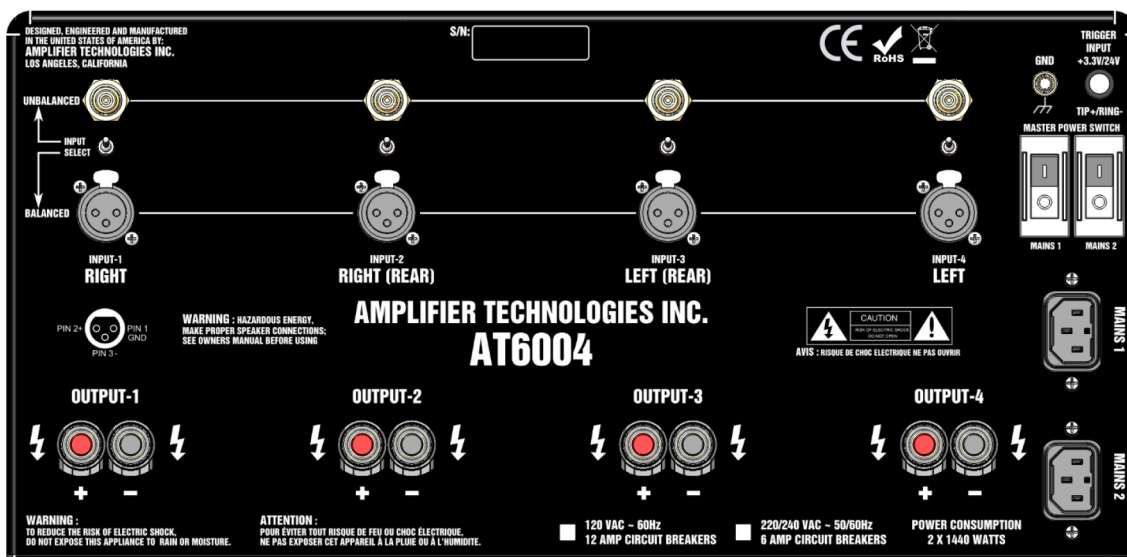
NOTE: *While most speaker manufacturers adhere to an industry convention of using red terminals for positive connections and black terminals for negative, some manufacturers may vary from this configuration. To assure proper phase connections, and optimal performance, consult the identification plate on your speaker terminals, or the speaker's manual to verify polarity. If you do not know the polarity of your speaker, consult the speaker's manufacturer for further information..*



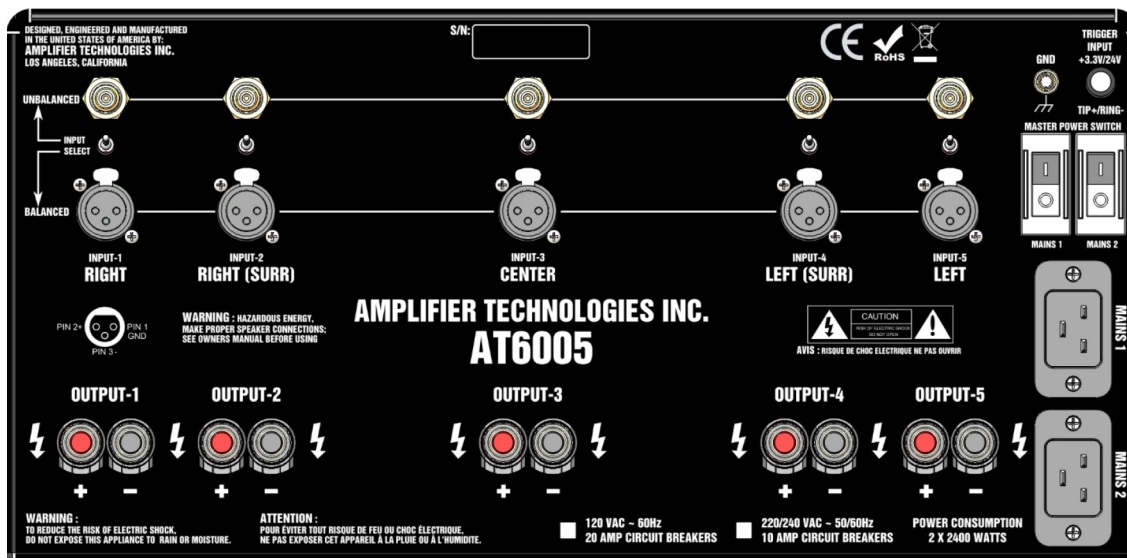
AT-6002



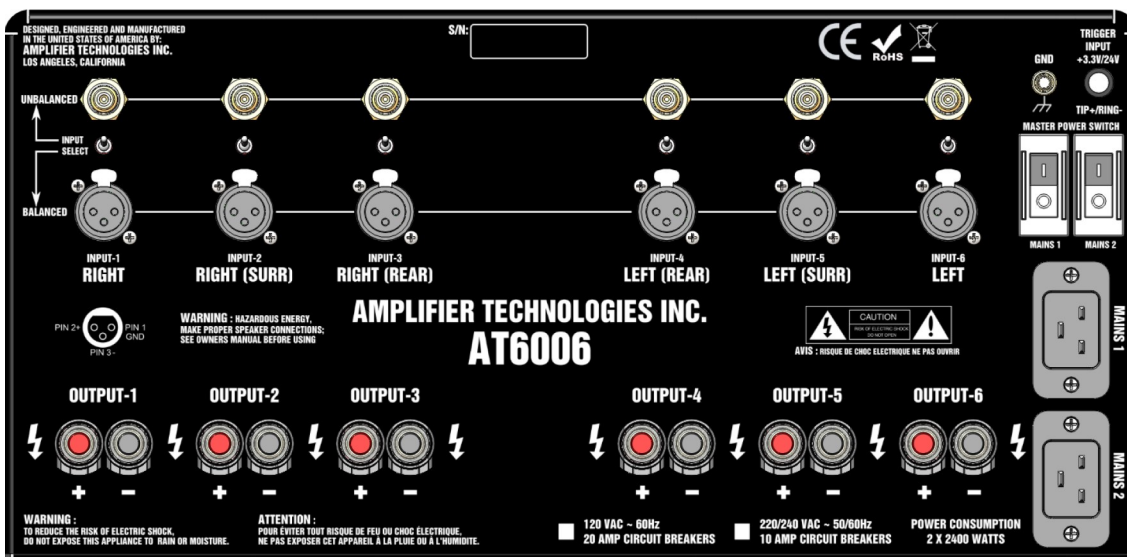
AT-6003



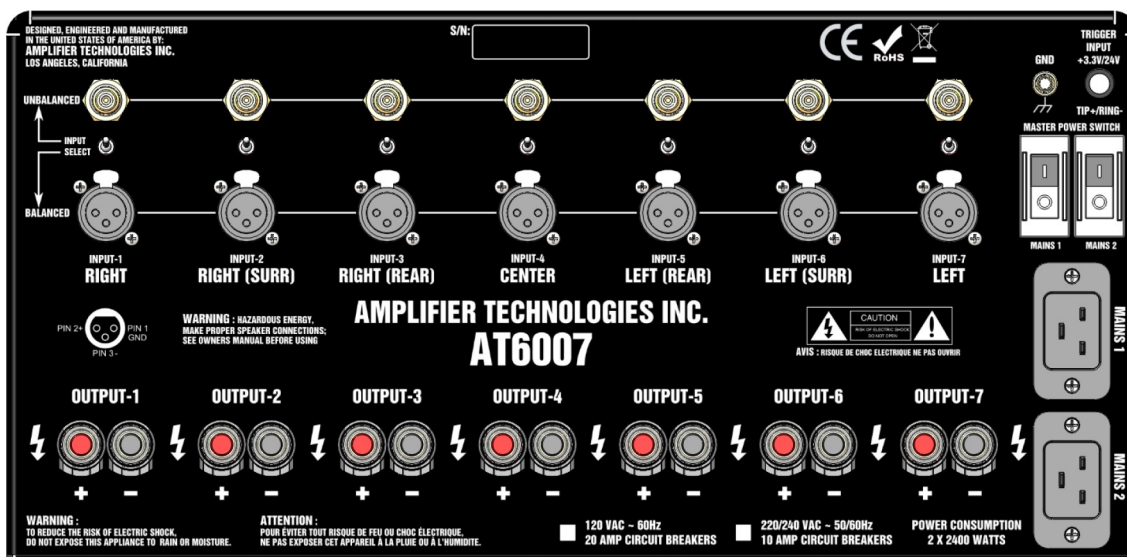
AT-6004



AT-6005



AT-6006



AT-6007

Power Control Connections

Your amplifier features a built-in remote turn-on system that will automatically switch the amplifier on when another device in the system is switched on.

Remote Turn-On Using Products Equipped with a Low Voltage Trigger Jack

Press the front panel power switch on the amplifier so that it is in the ON position. Then, using an accessory cable with a 3.5mm mono mini-plug on each end, connect the trigger-output jack on the rear of the source device to the trigger input jack on the back panel of the amplifier. When these connections are made, the amplifier will automatically turn on whenever the triggering device is turned on.

Remote Turn-On Using External AC to DC Power Converter

If your source device does not have a dedicated trigger jack, it is still possible to activate the unit for automatic turn on when a Switched Outlet is available on the rear of the source device. To control the amplifier in this fashion, you will need a small AC to DC power converter, capable of delivering a 3.3 to 24 volt DC signal. The DC voltage should terminate in a standard 3.5mm type mini plug. This type of converter may be obtained as a Power Adapter from many electronics retailers. When installing, press the Main Power Switch on the front panel of the amplifier in so that it is in the ON position. Plug the AC adapter into a switched outlet on the source device that will be activated when you wish to have the amplifier turn on. This may be the switched outlet at the rear of an AC receiver or other audio equipment. Connect the 3.5mm mini-plug from the adapter to the trigger-input jack on the back panel of the amplifier. The amplifier will now turn on and off automatically, based on the status of the controlling device.

AC Power Connector

The AC input connector provides power to the unit with the supplied power cords. The 120VAC version of the 6000 series amplifiers is supplied with two 15 Amp power cords with standard NEMA-5-15P plugs on one end. The 230VAC versions are supplied with Schuko IEC 60320 with C19 plug. Some 230VAC versions are supplied with a different plug. Please check with your dealer for details.

WARNING

Both power cords for at AT6002, AT6003 and AT6004 may be plugged in to a single 15 Amp circuit (120VAC) OR 8 Amp (230VAC). Each power cord for the AT6005, AT6006 and AT6007 must be plugged into separate 15 Amp circuits (120VAC) or 8 Amp circuits (230VAC). Separate circuits typically are connected to different circuit breakers at the service entrance of the building.

Do not attempt changes to your household electrical circuits by yourself, instead hire a licensed qualified electrician.

CAUTION!

Never make or break connection to the AT6000 series amplifiers unless the amplifiers and all associated components are powered off.

***NOTE:** It is NOT RECOMMENDED that you connect other power amplifiers, or products with a high current draw, to the same AC power circuit as the amplifier. If this is unavoidable, the Ultra-Soft-Start circuitry of your amp will prevent excessively high inrush current.*

Amplifier Operation

After all connections have been made you are ready for operation. First, turn on the source components and processor in your system. It is always a good idea to turn on your amplifier LAST. This avoids the possibility of any turn on pops or transients from other equipment being amplified and sent to your speakers where they may cause damage. Always start with a low volume level on your controller or preamp to avoid damage to your speakers.

Manual Turn-On

First, press the two rear-panel master power switches so the vertical lines (top of the switch) are depressed. The amber STANDBY light on the front-panel power switch will illuminate. Press the front-panel power switch to start the turn-on process. The switch will illuminate. After a pause of up to 45 seconds the front panel logo will light and sound is available to the speakers. To turn the unit off, press/touch the power switch again. The ON indicator light will go out and STANDBY light will illuminate. Press the ATI logo to turn off the back-light. Press it again to turn it back on. If the ATI logo is turned off, it will remain off when the amplifier is again powered on. Press the logo to turn it back on.

Automatic Turn-On

Make certain that the connection to the controlling device is correct. Whenever the controlling device is turned on, the amplifier will automatically turn on after a short pause. This pause is intentional, and it protects your speakers from damage while the amplifier stabilizes. You may also hear a relay click during start up. This is also normal. To turn off your amplifier, simply turn off the device feeding the amplifier it's audio signals. The amplifier will automatically go into a standby mode in a few moments.

Peak Indicator Light

This indicator circuit continually monitors the output level of your amplifier. If the light stays illuminated continuously for more than ten seconds. The volume setting from your preamp or source device should be turned down to avoid speaker damage.

Main Circuit Breaker

Your amplifier is supplied with two heavy-duty magnetic circuit breakers/power switches. If power to your amplifier is interrupted, inspect the circuit breaker on the rear of the unit. If the circuit breaker is in the off position you may reset it to the on position to restore AC power. If the circuit breaker immediately trips to the off position, unplug the amplifier from the AC power source and contact the ATI Service Department.

WARNING: Always turn off the amplifier and unplug the power cord before making any electrical connections.

Protection Circuitry

Your ATI amplifier uses an advanced optically coupled protection circuit that does not require fuses and is completely isolated from the audio path. In the event that the amplifier senses a shorted speaker wire or other fault condition, the protection circuit will engage shutting down the output and will sample the state of the amplifier every 7 seconds (nominal). The output will remain cut off as long as the fault condition exists. The amplifier will return to normal operation when the fault condition (short circuit, etc.) is removed/repaired.

If this should occur, first check all speaker wire connections, both at the speakers themselves and at the speaker terminals on the rear of the amplifier to verify that none of the strands from any channel touch any other channel and that none of the strands from a “positive” terminal touch those from a “negative” terminal. Even a single stray wire may cause the amplifier to go into the protection mode.

After checking all speaker connections, turn the unit back on. If it continues to turn off, check your speakers to verify they are operating properly. If all other potential sources of trouble check out properly, please contact ATI for further assistance and information.

ATI Service Information

The AT6000 series amplifiers do not contain any user serviceable parts. If you suspect a problem that may require service assistance, please contact us at support@ati-amp.com or by telephone at: (323) 278-0001. It is important that any repairs be performed only by a factory-authorized service agent. This will assure proper service and preserve the protection of your Limited Warranty. Keep your sales receipt (proof of purchase) in a safe place so that it will be available to verify your purchase date in the unlikely event you experience a problem and need warranty service.

Care and Maintenance

Cleaning

When the unit becomes dirty, wipe it with a clean, soft, dry cloth. If necessary, first wipe the surface with a soft cloth slightly dampened with mild soapy water, then with a fresh cloth dampened with clean water. Wipe dry immediately with a dry cloth. NEVER use benzene, thinner, alcohol or any other volatile cleaning agent. Do not use abrasive cleaners, as they will damage the finish of the metal parts. Avoid spraying insecticide, waxes, polishing agents or any aerosol product near the unit.

Troubleshooting

Your ATI amplifier is designed for trouble free operation. If you follow the instructions in this manual you should enjoy many years of high quality listening enjoyment. However, as with any sophisticated electronic device, there may be occasional problems upon initial installation, or during the life of the unit. The items below are a brief guide to the minor problems that you may be able to correct yourself. If these solutions do not rectify a problem, of the problem persists, please contact us for assistance.

Problem

Solutions

Amplifier will not turn on

Line cord disconnected. Plug line cords into power outlet and amplifier

Amplifier will not turn on

Master Power Switches turned off. Turn on Master Power Switches

Amplifier will not turn off

Remote trigger cable not properly connected. Verify connection of trigger cable at both ends.

Amplifier turns on but no audio from one or more channels

Input cables are not connected to proper jack or are loose. Check input connections.

No audio from one or more channels.

Input select switch is in the wrong position. Change input select to correct (RCA or XLR) position.

No audio from one or more channels.

Speakers or amplifier inputs are not properly connected. Check speaker and input connections at amp and speakers

Audio levels are not consistent

Improper settings or output levels from processor or controller. Check the settings on your preamp, processor or controller

Audio plays, then cuts off

Speaker wires shorted. Check speaker connections for shorts at amp and speakers.

A Few Words About Hum and Noise

Audible hum, or a discernible low frequency noise, is one of the most common problems in audio/video systems. This hum, which may be present even when the volume is at a low level, is usually caused by a problem known as “ground loops”. A ground loop occurs when there is a difference in ground voltages between two or more components that are connected electrically. This, in turn, creates multiple current paths and causes the low-level noise, or hum.

While it is natural to suspect that the components in your system are the cause of the hum, in many cases the cause may be due to other conditions. In particular, cable TV connections from outside the house have become a major source of hum.

In most cases, one of the following suggestions should help you to solve a hum problem in your system. Please try these steps in the sequence shown, proceeding from one step to the next if the prior suggestion does not eliminate the problem.

Potential Ground Loops in a Complex A/V System

Suggestion #1:

To determine if a cable TV connection is responsible for the hum, first turn all components off. Disconnect the cable TV feed to your system at the first place where it connects to your components. Alternatively, disconnect the cable TV wire where it is connected at the wall outlet. Turn your system back on, and listen if the hum has disappeared. If removing the cable TV feed has eliminated the hum, contact your cable provider and ask them to correct their cable ground or insert a Ground Loop Isolator before reconnecting the cable TV feed.

Suggestion #2:

Turn off all components in your system, and then disconnect the input cables at the amplifier. Turn the amplifier back on, and see if the hum is still present. If the hum disappears, the fault may be in the input cables used. Try replacing them with cables that have better shielding, and make certain that the input cables are not running on top of any AC power cords. Change the cables one at a time to determine if one, or all cables is responsible. If the hum disappears when the input cables are disconnected, but returns after the cables are changed and the system re-connected, the problem may be caused by your source device.

Suggestion #3:

Ground loop problems may also be caused by poor grounding of the electrical system in your home, particularly when there are multiple components with three prong, grounded, power cords. Try unplugging these components one at a time, and see if one or all of them is causing the problem.

The ultimate solution to this type of problem is to re-wire your house with an isolated, star type grounding configuration. We recognize, however, that this may be impractical and expensive. In some cases, the use of an approved AC Power Isolation Transformer of sufficient capacity may solve this problem.

Suggestion #3 (continued):

WARNING: If you suspect that the grounding system in your home’s electrical wiring is causing the hum problem, it is important that you do not make any changes to the wiring yourself. Only a licensed electrician should make any changes to household wiring, and they must be made in full compliance with all local building, safety and electrical codes.

Suggestion #4:

Hum may also be caused by faulty earth grounds in your home’s electrical system. In the past, cold water pipes were often used for the earth ground, so it is important 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 in some locations due to requirements that the water meter be isolated from the water mains with a length of PVC pipe, thus interrupting the ground circuit. The safest, and most reliable, approach may be to provide your own ground. This can be accomplished by having a licensed electrician drive at least five feet of copper-jacketed steel grounding rod into the earth, and using that for your grounding connection.

Intermittent Hum or Noise

Hum that changes character or comes and goes is usually caused by DC on the AC line. This can be caused by other devices in the home like light dimmers or hair dryers or may be caused by problems on the electrical grid. If the hum persists after all of the above suggestions have been tried, contact the ATI customer service department for assistance at (323) 278-0001 or support@ati-amp.com.

For Future Reference

Model Number
Serial Number
Date of Purchase
Dealer Name
Dealer Address
Dealer Phone Number
Notes

Power Amplifier Specifications

Series	AT6000
Number of Channels	2 to 7
EIA 1kHz Output Power @ 8 Ohms*	350 Watts
EIA 1kHz Output Power @ 4 Ohms*	450 Watts
FTC Full Bandwidth Output Power @ 8 Ohms**	300 Watts
FTC Full Bandwidth Output Power @ 4 Ohms**	450 Watts
Input Sensitivity for Full Rated Power	1.95 Volts
Frequency Response at Full Rated Power	20 Hz to 20 kHz ± 0.1 dB
Phase Response	+5 to -15 degrees from 20 Hz to 20 kHz @ 1 Watt
Signa-to-Noise Ratio “A-Weighted”	Greater than 125dB below rated FTC Full Bandwidth Output
Total Harmonic Distortion (THD)	Less than 0.05% at full rated FTC power. Less than 0.01% at full EIA power
Intermodulation Distortion (IMD)	Less than 0.05% at full rated FTC power. Less than 0.01% at full EIA power
Load Impedance	Safe with all types of loads. Rated for 4 to 16 ohms.
Power Bandwidth	+0, -3 dB from 5Hz to 80 kHz
Damping Factor	Greater than 400 from 10Hz to 400 Hz
Crosstalk	Greater than -80 dB from 20 Hz to 20 kHz
Gain	Voltage gain of +28dB ± 0.2 dB
Slew Rate	> 60 V/ μ sec
Input Impedance	Nominally 50 kohms
Remote Trigger Voltage	3.3 to 24 Volts DC at 5 Ma or greater
DC Output Offset	Less than ± 5 mV
Power Requirements	120 VAC (other voltages available on export models)
Chassis Dimensions (H x W x D) inches	9 1/2 x 17 1/4 x 18 1/2 (Without feet H = 8 3/4)
Chassis Dimensions (H x W x D) mm	241 x 438 x 470 (Without feet H = 222.25)
	Handles Protrude 1 3/4” (44.5mm); Add 1 1/4” (32mm) for input / output jacks
Net Weight - Model Dependent	86 to 136.4 lbs. / 39 to 62 kg
Shipping Weight - Model Dependent	96 to 146.4 lbs./ 43.6 to 65.5 kg

*EIA 1kHz Power refers to maximum average power in watts at 1 kHz with 0.01% THD and noise.

**FTC Full Bandwidth Power refers to maximum average power in watts from 20Hz to 20 kHz with 0.05% THD and noise.

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ATI LIMITED WARRANTY

United States, US Territories – Effective December 2024

This limited warranty (this “Limited Warranty”) protects only the original end-user (“you” or “your”), and is not transferable. Any attempt to transfer this Limited Warranty shall immediately make this Limited Warranty void.

Amplifier Technologies, Incorporated (“ATI”) warrants to you that your new ATI product (the “Product”) will be free from defects in workmanship and materials for the corresponding period set forth in the table below (the “Warranty Period”) starting from the date the Product is shipped to you, the end-user.

<u>Product Category</u>	<u>Warranty Period</u>
Power Amplifiers	7 years
Processors	3 years

This Limited Warranty does not cover defects which are a result of: (A) damage caused by accident, disaster, misuse, abuse or other unreasonable use or neglect (including the lack of reasonable and necessary maintenance); (B) damage occurring during shipment (claims must be presented to the carrier); (C) damage caused by improper installation or adjustment; (D) damage to, or deterioration of, any accessory or decorative surface; (E) damage resulting from failure to follow instructions contained in your owner’s manual; or (F) damage resulting from the performance of repairs by someone other than an authorized ATI service center.

Furthermore, this Limited Warranty covers only actual defects within the New Product itself, and does not cover the cost of installation or removal from a fixed installation, setup or adjustments, claims based on misrepresentation by the seller, performance variations resulting from installation related circumstances such as program source quality or AC power or Product modifications, any Product on which the serial number has been effaced, modified or removed, or any Product sold on an “as-is” or final sale basis. This Limited Warranty is valid only for New Products purchased from an authorized ATI dealer.

THIS LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. EXCEPT TO THE EXTENT EXPRESSLY PROHIBITED BY APPLICABLE LAW, ATI EXPRESSLY DISCLAIMS ALL SUCH OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT, WITH RESPECT TO THE PRODUCT. TO THE MAXIMUM EXTENT PERMITTED BY LAW, ATI SHALL NOT BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES EXCEPT TO THE EXTENT EXPRESSLY PROVIDED (OR PROHIBITED) BY APPLICABLE LAW, EVEN IF ATI HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Notwithstanding the above, if you qualify as a “consumer” under the Magnuson-Moss Warranty Act, or applicable state laws, then you may be entitled to any implied warranties allowed by law for the Warranty Period. Further, some states do not allow limitations on how long an implied warranty lasts or allow the exclusion or limitation of consequential damages, so such limitations may not apply to you. This Limited Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

This Limited Warranty is applicable in the United States and its territories. Outside of the United States and its territories, please contact an authorized ATI dealer for warranty and service information.

When the Product needs service contact ATI customer support to request information about where the Product should be taken or sent. To validate your right to this Limited Warranty, you must provide the original dated sales receipt or other proof of ownership and date of purchase. Do not return your Product for repair without prior authorization from ATI. Warranty service in the USA is performed only at the ATI factory. Any claim by a third party to be an “Authorized ATI Service Center” is false. Unauthorized warranty repair will void this Limited Warranty and is performed at your sole risk.

During the Warranty Period, ATI will at its sole option and expense, repair or replace any product found to be defective. In the event that the Product is no longer available and cannot be repaired effectively, ATI, at its sole option, may replace it with a reasonable equivalent. ATI will cover reasonable return shipping charges within the United States and its territories, only if the Product is found to be defective under this Limited Warranty.

You will be charged for the cost of examining any Product that is not in need of repair (including resulting shipping costs), or for necessary repairs not covered by this Limited Warranty.



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