

constellation audio



Andromeda Phono Stage

owner's manual

Contents

<u>Page</u>	<u>Topic</u>
3	Warranty information
4	Before you install the Andromeda
	Unpacking
	Installation notes
	In the event of malfunction
5	Power supply connections
6	Input and output connections
	XLR and RCA inputs
	XLR and RCA outputs
	RS 232
	USB
	Trigger output
	AC power input
11	Controls / displays / indicators
	Front panel buttons
	Rear panel controls
13	Control screens
15	Step-by-step operating procedure
16	Maintenance
16	Troubleshooting
17	For more information



CAUTION: NO USER SERVICEABLE PARTS INSIDE. Do not open the amplifier chassis or remove any of its screws. Contact Constellation or your dealer if you have service needs.

WARNING: Do not expose this amplifier to moisture or excessive humidity, and do not use it outdoors. Fire hazard may result.



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 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 operating maintenance (servicing) instructions in the literature accompanying the appliance.

Limited warranty

Dear purchaser

This product has been designed and manufactured to the highest quality standards. However, if something does go wrong with this product, Constellation and its national distributors warrant the replacement of defective parts including labor (exclusions may apply) in any country served by an official Constellation distributor. This limited warranty is valid for a period of 3 years from the date of purchase.

Terms and conditions

1. The warranty is limited to the repair of the equipment. In the event that your equipment requires service, the customer must first obtain a return authorization from Constellation or its authorized distributor. The customer is responsible for returning the equipment to Constellation or its authorized distributor. In the event that the repair is determined to be under warranty, Constellation will return the equipment to the customer at no charge. Except as indicated, neither transportation, shipping, nor any other costs, nor any risk for removal, transportation and installation of products are covered by this warranty.
2. With the exception explained below, this warranty is only valid for the original owner. It is not transferable. It is valid only when purchased from an authorized Constellation dealer or distributor. A valid receipt showing the purchaser's name, date of purchase, and dealer information must be submitted with all warranty claims.
 - 2A. In the event that this equipment is purchased as a used or trade-in equipment from an authorized Constellation dealer or distributor, the second owner shall receive the balance of the original warranty based upon the original date of purchase. Valid receipts showing the purchaser's name, date of purchase, and dealer information for the current owner and the original purchase must be submitted with all warranty claims.
3. This warranty will not be applicable in cases other than defects in materials and/or workmanship at the time of purchase and will not be applicable for damages caused by incorrect installation, connection or packing; for damages caused by any use other than correct use described in the user manual; for damages caused by negligence, modifications, or use of parts that are not made or authorized by Constellation, LLC; for damages caused by faulty or unsuitable ancillary equipment; for damages caused by accidents, lightning, water, fire, heat, extreme weather condition, war, public disturbances or any other cause beyond the reasonable control of Constellation and its appointed distributors; for products whose serial number has been altered, deleted, removed or made illegible; or if repairs or modifications have been executed by an unauthorized person.
4. This guarantee complements any national/regional law obligations of dealers or national distributors and does not affect your statutory rights as a customer.
5. Unauthorized dismantling of this product will render this warranty void.
6. Constellation strives to manufacture the very finest possible equipment, and therefore reserves the right to make changes or improvements without notice.

Before you install the Andromeda

Unpacking

Take care when you remove the Andromeda and its power supply from their packaging. Because of their machined aluminum chassis components, they may be heavier than you expect. Have an extra person nearby to help if you need it. You may wish to use gloves to protect your fingers and avoid leaving fingerprints on the surface.

Installation notes

The Andromeda must be located in an area with adequate ventilation so that heat does not build up. There should be at least 6 in/15 cm of clearance between the sides and top of the phono preamp and the nearest wall or cabinet. If the Andromeda is installed in a cabinet or an equipment closet, ensure adequate ventilation. If you install the power supply on a different shelf or compartment, make sure it, too, is adequately ventilated. Installation of the phono preamp or power supply in an unventilated cabinet or closet may cause the Andromeda to overheat, reducing its lifespan.

The Andromeda requires a room-temperature environment to operation properly. Ambient temperature should be about 70°F/21°C, plus or minus 10°F/5°C. Never install the Andromeda in a place where it may be exposed to direct sunlight, and do not install it next to a heater, radiator, air conditioner, etc.

Make sure the Andromeda will not be exposed to moisture. Do not locate it in an area where it might be spilled on, and do not place it in a humid location (such as an unfinished basement).

When you connect or disconnect the AC cord, always grasp it by the plug, not by the cord itself. Pulling the plug out by the cord can damage the cord, the AC socket, and/or the Andromeda.

Installing the Andromeda in a place where it will be exposed to direct sunlight or moisture, or where it will not have adequate ventilation, will void your warranty.

Connected components

The Andromeda is designed to be paired with any high-quality turntable, and with any quality preamp (ideally a preamp made by Constellation Audio). Both balanced (XLR) and unbalanced (RCA) connections are available. XLR will provide the highest quality/lowest noise signals, and should be used when possible.

Before making or changing any connections to the Andromeda, turn off the master power switch on the power supply, and turn off the preamp and power amplifier(s).

In the event of malfunction

Do not under any circumstances open the chassis of the Andromeda. There are no user-serviceable parts inside. Opening the chassis can present a shock hazard even if the AC power is disconnected. Any alteration or modification of the Andromeda's internal parts or circuit will void your warranty.

If your Andromeda does not function correctly, refer to the Troubleshooting section at the end of this manual. If you are still unable to resolve the problem, contact your Constellation dealer.

If liquid is spilled on the Andromeda, or if any metal object (such as a staple or a paper clip) is inadvertently forced inside, immediately disconnect the AC power and contact your Constellation dealer.

Power supply connections



The Andromeda's separate power supply (bottom component in the picture above) must be connected to the Andromeda main chassis (top component in the picture above) as shown above before you plug the unit into a wall. Make sure the power switch on the power supply is in the off (O) position. The supplied cables are spiral-wrapped, gold-plated copper designed for aerospace use, and can handle up to 30 amps. Only these cables should be used between the power supply and the Andromeda.

Connect the Analog Right power cable from the supply to the Analog Right jack on the preamp, the Analog Left power cable from the supply to the Analog Left jack on the preamp, and the Control power cable from the supply to the Control power jack on the preamp. At this point you can plug the Andromeda power supply into the wall socket. Leave the master power switch off until you connect your other equipment to the Andromeda.

DO NOT remove the power cables while the unit is powered on. If you do happen to accidentally pull one of them out, DO NOT plug it back in. Turn off the power supply using the hard switch on the rear panel, unplug the unit, then replace the cable. Failure to power down the unit before replacing a power cable can result in substantial damage to your Andromeda.

If you will be using a Constellation Audio amplifier (or any other high-powered amplifier), do not plug the Andromeda into the same AC socket or into any other outlet connected on that circuit. Constellation Audio amplifiers draw a great deal of power and could affect the Andromeda's performance if the amplifier(s) and phono preamp are plugged into the same electrical circuit or AC outlet.

When you connect or disconnect the AC cord, always grasp it by the plug, not by the cord itself. Pulling the plug out by the cord can damage the cord, the AC socket, and/or the Andromeda.

Input and output connections

1. XLR MC input



The XLR inputs farthest to each side of the back panel of the Andromeda are for use with MC cartridges. As you are looking at the rear panel, the left XLR inputs are for the right channel, the right inputs are for the left channel. These correspond with input MC-1. Use of XLR connections is recommended for the best possible audio quality. To remove an XLR plug, push on the tab above the jack and pull the plug out.

IMPORTANT NOTE: To preserve true dual-mono operation, the Andromeda uses a symmetrical circuit layout. This configuration requires that the Andromeda's back panel connections be laid out a little differently from those on most preamps. For example, the left-channel connection for input MC-1 is at the far right side of the back panel, and the right-channel connection for MC-1 is at the far left side. Connecting the cables in the usual side-by-side fashion will result in an incorrect installation and the mixing of sounds from different tonearms or turntables.

2. RCA MC input



This unbalanced input is provided as a convenience for use with unbalanced signals from MC cartridges. These jacks correspond with input MC-2. Whenever possible, we recommend using XLR connections instead. Connecting to an unbalanced source is handled in the same way as an XLR balanced source. To remove an RCA plug, grasp the plug and pull it out. Do not pull on the cable.

IMPORTANT NOTE: To preserve true dual-mono operation, the Andromeda uses a symmetrical circuit layout. This configuration requires that the amplifier's back panel connections be laid out a little differently from those on most preamps. For example, the left-channel connection for Input 1 is on the right side of the back panel, and the right-channel connection is at the left side. Connecting the cables in the usual side-by-side fashion will result in an incorrect installation and the mixing of sounds from different source devices.

3. XLR MM input



This XLR input is for use with MM cartridges. As you are looking at the rear panel, the left XLR inputs are for the right channel, the right inputs are for the left channel. These correspond with input MM. You may use either the XLR or RCA connection for input MM, but not both. Use of XLR connections is recommended for the best possible audio quality. To remove an XLR plug, push on the tab above the jack and pull the plug out.

IMPORTANT NOTE: To preserve true dual-mono operation, the Andromeda uses a symmetrical circuit layout. This configuration requires that the Andromeda's back panel connections be laid out a little differently from those on most preamps. For example, the left-channel connection for input MM is on the right side of the back panel, and the right-channel connection is on the left side. Connecting the cables in the usual side-by-side fashion will result in an incorrect installation and the mixing of sounds from different tonearms or turntables.

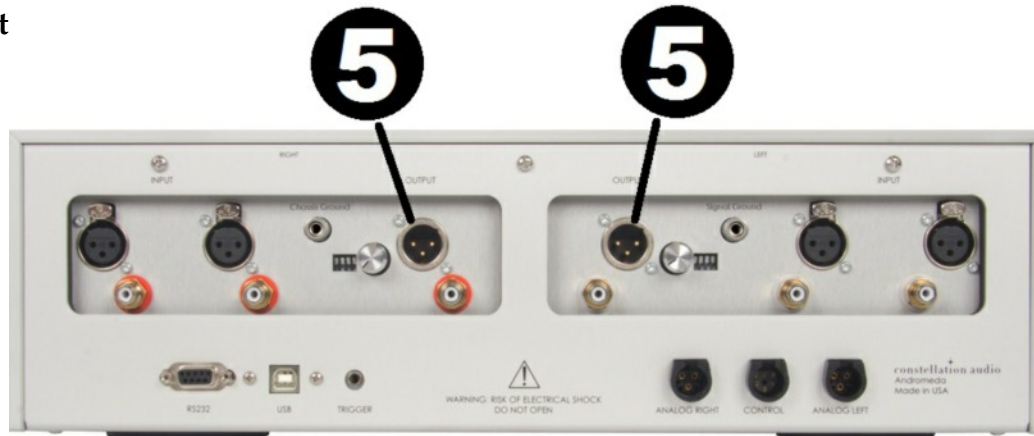
4. RCA MM input



This unbalanced input is provided as a convenience for use with unbalanced signals from MM cartridges. These jacks correspond with input MM. You may use either the RCA or XLR connection for input MM, but not both. Whenever possible, we recommend using XLR connections instead. Connecting to an unbalanced source is handled in the same way an XLR balanced source. To remove an RCA plug, grasp the plug and pull it out. Do not pull on the cable.

IMPORTANT NOTE: To preserve true dual-mono operation, the Andromeda uses a symmetrical circuit layout. This configuration requires that the amplifier's back panel connections be laid out a little differently from those on most preamps. For example, the left-channel connection for input MM is on the right side of the back panel, and the right-channel connection is on the left side. Connecting the cables in the usual side-by-side fashion will result in an incorrect installation and the mixing of sounds from different source devices.

5. XLR output



The inner XLR connections on the rear of the Andromeda are outputs. To remove an XLR plug, push on the tab on the connector body and pull the plug out. Be sure to match the output to the correct channel on your preamp. As you are looking at the back of the Andromeda, the output on the left side is for the right channel, the output on the right is for the left channel.

6. RCA output



RCA unbalanced outputs are also supplied for preamplifiers not equipped with XLR connections. When connecting to an amplifier, be sure to match the output to the correct channel on your amp. As you are looking at the back of the Andromeda, the output on the left side is for the right channel, and the output on the right is for the left channel. To remove an RCA plug, grasp it by the connector body and pull the plug out.

7. Chassis ground



The chassis ground terminal is one of two ground terminals provided on the Andromeda. Two separate grounds provide more grounding options and will allow you to reduce hum to an absolute minimum. Typically the chassis ground will be connected to the ground terminal on the turntable or the motor, while the other ground terminal (signal ground) will be connected to the tonearm. However, you may find that you get less hum by connecting the chassis ground to the center plate screw on the AC outlet, and grounding both the tonearm and turntable to the signal ground. Experiment and go with whatever configuration gives the best results.

8. Signal ground



The signal ground terminal is one of two ground terminals provided on the Andromeda. Two separate grounds provide more grounding options and will allow you to reduce hum to an absolute minimum. Typically the signal ground will be connected to the ground terminal on the tonearm, while the other ground terminal (chassis ground) will be connected to the turntable or motor. However, you may find that you get less hum by connecting both the tonearm and the turntable to the signal ground, and connecting the chassis ground to the center plate screw on the AC outlet. Experiment and go with whatever configuration gives the best results.

9. RS 232 / control

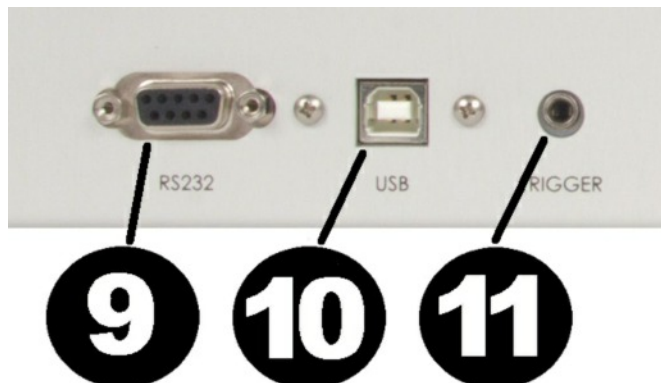
This connector is used to interface the Andromeda with third-party control systems such as those from AMX, Crestron and Control4, and also to update the amplifier's firmware. For more information, contact your dealer.

10. USB / control

This USB jack interfaces the Andromeda with third-party control systems such as those from AMX, Crestron and Control4, and also to update the amplifier's firmware. For more information, contact your dealer.

11. Trigger output

This 1/8-inch/3.5mm jack outputs a 12-volt DC trigger signal when the Andromeda is powered on. This signal can be used to automatically turn on a connected amplifier (if the amp has a DC trigger input), or to trigger home automation systems.



Power supply connections and controls

12. AC input

This AC input accepts standard 15-amp IEC-type power cords. You may use the high-quality power cord supplied with the Andromeda, or substitute an after-market power cord if you wish.

13. Rear power switch

This is the master power switch for the Andromeda. The power/standby buttons on the front panel and remote control will not function when this switch is flipped down.

To power up the Andromeda, first flip this switch up, then either press the Standby button on the remote, or press the front of the touchscreen and hit the onscreen Power button or the middle button under the touchscreen.

14. Power outputs

Each of these cables mates with a matching jack on the phono preamp section. Be sure to connect the Analog Right power cable from the supply to the Analog Right jack on the phono preamp section, the Analog Left power cable from the supply to the Analog Left jack on the phono preamp, and the Control power cable from the supply to the Control power jack on the phono preamp.



Before connecting these cables, switch off the power supply and disconnect it from the AC power. Failing to do this can damage the phono preamp or the power supply.

Controls / displays / indicators

15 - 19. Front panel controls

The front panel includes an LCD touchscreen and two knobs plus five buttons positioned underneath the display. These buttons allow you to control the Andromeda without its remote. The functions of the buttons are shown using icons on the touchscreen. Here are the functions of the buttons and knobs:



15. Home

This button brings you to the Input Select screen no matter which control screen you are currently viewing.

16. Return/back

This button brings you back to the previous control screen. For example, from the MC Load screen, pushing this button will take you back to the Input Setup screen.

17. Standby/power

Push this button to turn the Andromeda on and off. When you turn the unit on, it will take a few seconds for the power supply and preamp to warm up. When the Andromeda is ready for use, its LCD screen will illuminate. Press the mute button on the Andromeda to activate the sound.

When you turn the Andromeda off, the unit will enter cool-down mode for 10 seconds. During cool-down, no buttons on the unit will operate.

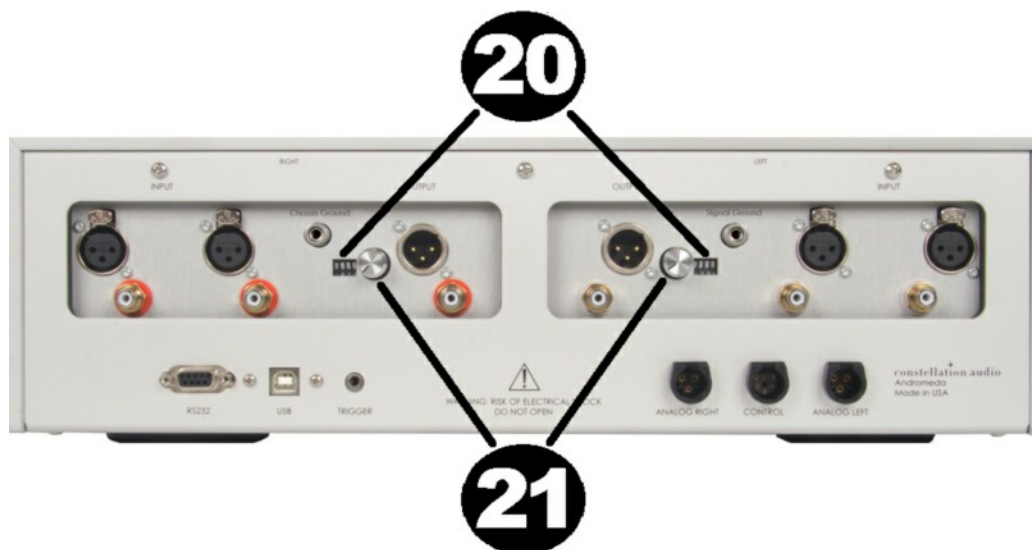
18. Setup button

Pressing this button will call up the Screen Setup screen, which lets you adjust contrast, brightness and timeout of the LCD screen.

19. Mute

Press this button to silence the audio temporarily, such as when you're lowering the tonearm onto a record. Because the Andromeda uses a relay to perform the Mute function, it may take a second or so for this control to respond. When the Andromeda is in mute mode, an X will appear next to the speaker icon in the lower right corner of the touchscreen. Press the button again to restore the sound.

20 - 21. Rear panel controls



20. MM loading adjustment switches

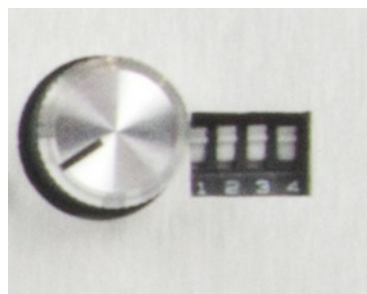
These two arrays of four microswitches each adjust loading for the MM input. You can flick the switches gently with a small screwdriver, a toothpick, etc. You can use the settings recommended by the manufacturer of your cartridge, or experiment and use the settings that sound best to you. But always use the same settings on both switch arrays. Below are the functions for each switch:

CAPACITIVE LOADING

SW1 and SW2 off: No capacitive loading
SW1 or SW2 on: 100 pF
SW1 and SW2 on: 200 pF

RESISTIVE LOADING

SW3 and SW4 off: 47 K Ω
SW3 on, SW4 off: 33 K Ω
SW3 off, SW4 on: 10 K Ω
SW3 and SW4 on: not recommended



21. MC loading adjustment knob

Turning this knob adjusts the loading for the MC inputs in a range of 0 Ω to 999 Ω . To see the setting of the knob, push the Setup button the front panel and select MC Load on the touchscreen. Don't worry about getting the left and right channels to match perfectly; differences of 1 or 2 ohms are insignificant. If the load is set all the way down (000) you will get no sound.

Control screens

Many functions of the Andromeda are controlled through the LCD touchscreen. Here is how the control screens function:

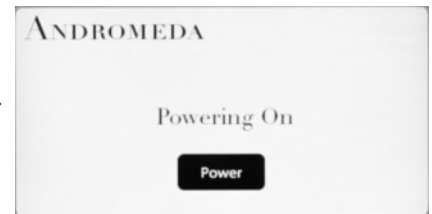
Standby

This screen appears if you touch the touchscreen when the rear-panel master power switch is flipped up. Pushing the onscreen Power button will power up the Andromeda and put it into warmup mode.



Powering on

This screen appears after you press the onscreen Power button while the Andromeda is powered down. It indicates that the Andromeda is in warmup mode. No buttons will function when this screen appears. After about 10 seconds, the Andromeda will become active and an input screen will appear.



Powering off

This screen appears for about 10 seconds if you push the Standby button under the middle of the front touchscreen while the Andromeda is powered on. It indicates that the amplifier is powering off and going into Standby mode. No buttons will function when the screen appears.



Input selector (Home)

This screen appears when the power is on and the unit is warmed up. Touching any input button onscreen will switch to that input. The setup screen can be accessed from this screen using the multifunction button below the display.



MC input setup

When you press the Setup button on the front panel when one of the MC inputs is selected, this screen will appear. It allows you to set up basic parameters for each MC input. Hit the Apply button to save changes and the Default button to return to factory settings.



To set high or low gain: Press either the High Gain or Low Gain button. The current mode is indicated by a darkened button. In the screen at right, low gain is activated. We recommend you set this by ear, so that the Andromeda has a similar output level to your other source devices. If the level is too low, select High Gain. If it is too high, select Low Gain. Touch Apply to save your changes.

To set stereo or mono operation: Press the Stereo or Mono button. The current mode is indicated by a darkened button. In the screen at right, stereo is activated. Touch Apply to save your changes.

MC load

When you press the MC Load button on the MC input setup screen, this screen will appear. It provides a readout of the settings of the load potentiometers on the back of the Andromeda. Adjust both potentiometers so that the desired load impedance is shown on the screen. (If the two readouts differ by an ohm or two, it doesn't matter.) If the level is set to 000, you will get no sound.



MM input setup

When you press the Setup button on the front panel when the MM input is selected, this screen will appear. It allows you to set up basic parameters for the MM input. Hit the Apply button to save changes and the Default button to return to factory settings.

To set stereo or mono operation: Press either the Stereo or Mono button. The current mode is indicated by a darkened button. In the screen at right, stereo is activated. Hit Apply to save your changes, Default to restore the factory presets.



Screen setup

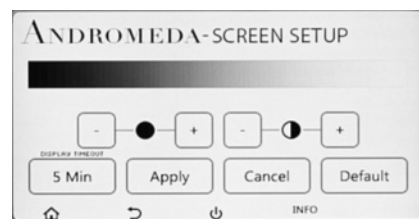
To adjust LCD brightness: Press the + and – buttons on the left side of the screen, on either side of the dark dot.

To adjust LCD contrast: Press the + and – buttons on the right side of the screen, on either side of the half-dark/half-light dot.

To adjust LCD backlight timeout: Press the Timeout button in the lower left corner to keep the screen lit for 15 sec., 30 sec., 1 min., 5 min., 10 min., and always on.

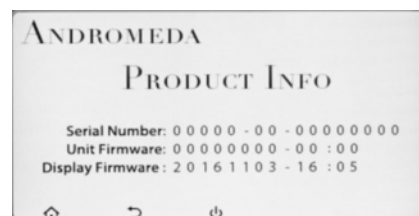
To accept or cancel screen setting changes: Press the Apply or Cancel button, respectively.

To return to the factory default settings: Press the Default button. This will bring up a screen asking “Are you sure you want to set this device to its default settings?” Hit the Yes button to go to default settings, the No button to cancel.



Product info

This screen is accessed using the multifunction button labeled Info on the screen setup screen. It is for servicing use only.



Step-by-step operating instructions

We've covered all of the basic controls and indicators of the Andromeda. Here's how you use them to perform the basic operations of turning the unit on, selecting a source, adjusting the sound, and turning the unit off.

STEP 1: Before making or changing any connections to the Andromeda, turn off the master power switch on the back of the power supply, and turn off the preamp and power amplifier(s).

STEP 2: If you are using the MM input for the first time, use a small screwdriver or a toothpick to set the MM loading switches on the back panel according to the settings recommended by the manufacturer of your cartridge. Feel free to experiment with different settings later if you wish. (See page 13 for more information.)

STEP 3: To turn on the Andromeda from the front panel, push the Standby button in the middle under the LCD touchscreen. You may also tap the touchscreen to "wake it up," then push the onscreen Power button.

Whichever way you turn on the power, you will hear the Andromeda's internal relays click as the unit goes into warm-up mode. In a few seconds, the front touchscreen will illuminate. The Input Select screen will then appear, with the most recently used input selected.

STEP 4: If the input you want is not selected, select the desired input by pushing one of the onscreen buttons for MC-1, MC-2 or MM. The button for the selected input will go dark.

STEP 5: If you need to set up either of the MC inputs, push the Setup button on the front panel. Set the operation for high gain or low gain, stereo or mono, as desired.

STEP 6: If you need to adjust resistive loading of the MC inputs, push the MC Load button on the Input Setup screen. The settings of the load knobs in ohms will be displayed. Reach around to the back of the Andromeda and turn the right and left adjustment knobs until the settings are correct for your cartridge. If the two readouts differ by an ohm or two, it doesn't matter. If the level is set to 000, you will get no sound.

STEP 7: If you wish to mute the output temporarily, such as when lowering the tonearm onto a record, push the Mute button. An X will appear next to the speaker icon in the lower right corner of the touchscreen. Press the Mute button again to restore the sound.

STEP 8: To turn the system off, stop playback on the source device. Press the Standby button in the middle under the LCD touchscreen. The unit will enter cool-down mode for 10 seconds, during which no buttons will work. After cool-down mode finishes, you can turn the unit back on again as described in Step 3 above.

Maintenance

The Andromeda requires no regular maintenance.

If the unit's surface becomes dusty, simply wipe it off with a soft dry cloth. Do not spray cleaners on the surface. To clean fingerprints from the surface of the preamp or power supply, spray a small amount of mild window cleaner such as Windex onto a soft dry cloth, then use the cloth to remove the fingerprints. Do not spray the cleaner directly onto the amplifier.

Troubleshooting

Unit will not turn on

Try the following steps in order. After you perform each step, touch the Standby button on the front of the unit and wait a few seconds to see if the touchscreen illuminates. If any one of the steps restores the power (i.e., allows the Standby button to turn the unit on), there is no need to continue to the next steps.

1. Check power cable connections between the wall and the Andromeda's power supply. Push the wall plug and the connector at the power supply in firmly.
2. Check power cables between Andromeda and power supply. DO NOT pull out these cables while the power supply is on.
3. Make sure the master power switch on the rear of the power supply is turned on.
4. If the Andromeda is plugged into an AC line conditioner, make sure the line conditioner is turned on.
5. Flip the master power switch off and on again. This will reset the unit's internal circuit breaker.
6. Check the circuit breaker for the AC circuit that the Andromeda is plugged into. If the breaker is tripped, flip it back on. If it will not turn on, there is likely a short circuit somewhere in the lines or in a device connected to this AC circuit. Check the power cords for your components to make sure none have been damaged.
7. If none of these conditions restores power, it is possible one of the Andromeda's internal fuses is blown. Do not attempt to change the fuse yourself—the Andromeda requires the use of special high-voltage fuses that are not commonly available. Contact your Constellation Audio dealer for service.

Unit is on but no sound is produced

Try the following steps in order. If any one of the steps restores the sound, there is no need to continue to the next steps.

1. Make sure you are on the correct input. Cycle through available inputs using the front touchscreen controls. Remember that MC-1 is an XLR input, and MC-2 is an RCA input.
2. Check that the turntable is on and that the stylus is contacting the surface of the record.
3. Check the speaker icon in the lower right corner of the touchscreen. If there is an X next to the icon, the unit is in mute mode. Press the Mute button directly beneath the speaker icon to restore the sound.
4. If one of the MC inputs is selected, push the Setup button under the LCD display, then push the MC Load button on the LCD screen. If the resistive load is set to 000, turn the back-panel MC load adjustment knobs to bring the loading up to the recommended resistance in ohms for your cartridge.
5. Check the connections between the turntable and the Andromeda, and between the Andromeda and the preamp. If a cable is disconnected, reconnect it. If this does not restore sound, try substituting a different set of cables in order to make sure the original set was functioning properly.
6. Check the connection between your amp and the speaker. Make sure the speaker cable has not come loose. If it has, turn the power off on your amp, then re-install the cable.
7. Check that the volume is at a sufficient level. Do not turn the volume all the way up to check this, as if sound is reestablished while the preamp is set to output maximum volume, damage can be done to your speakers and amplifiers.
8. If none of these actions restores the sound, contact your Constellation Audio dealer.

Sound comes from the wrong speaker

If left-channel sounds are coming from the right or vice-versa (i.e., the violin section in an orchestral recording comes from the right speaker, not the left), check the cable connections between the turntable and the Andromeda and the preamp, the Andromeda and the preamp, the preamp and the amplifier, and the amplifier and your speakers. Make sure left-channel cables are connected to the left channels of all components, and right to the right channels.

Only one speaker is working, or one speaker is playing a different piece of music

1. Check the cables between the turntable and the Andromeda, and between the Andromeda and the preamp. Make sure the left channel of the turntable goes to the left input on the Andromeda (which is on the right side, as you're looking at the back panel), and the right channel to the right input (which is on the left side). On the back of the Andromeda, the left and right inputs are NOT next to each other. They are on opposite sides.
2. If you're listening to speakers, check to make sure both speaker cables are firmly connected.
3. If you're listening to headphones, check to make sure the headphone plug is pushed all the way into your headphone amplifier's output jack. If you're using an adapter, make sure the headphone plug is fully inserted into the adapter, that the adapter is fully inserted into the headphone jack, and that the connection between the headphone cable and the headphones is secure.

Excessive hum is heard

1. Check to make sure the ground cables between the turntable and the Andromeda are firmly connected.
2. Experiment with various ground connection configurations to see which produces the least hum. The recommended default configuration is to run the tonearm ground to the signal ground connection on the Andromeda, and the turntable/motor ground to the chassis ground on the Andromeda. If this produces excessive hum, try grounding both the turntable and the tonearm to the signal ground, and connect the chassis ground to your house ground by wiring it to the center plate screw of the AC outlet.

For more information

Your Andromeda phono stage should give you many years of trouble-free, maintenance-free service. If you encounter any problems you cannot solve or have technical questions, please contact your Constellation dealer. For more information about Constellation products, please visit our website:

constellationaudio.com