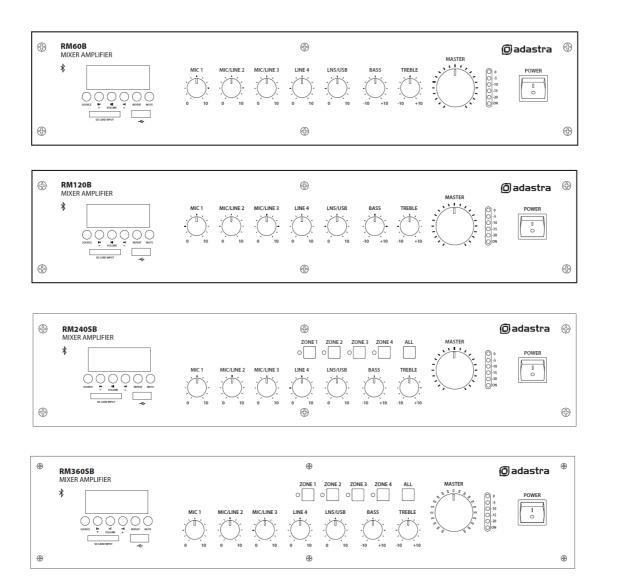
🖸 adastra

RM-SERIES

Rackmount 100V mixer-amplifiers with Bluetooth[™] Item ref: 953.113UK, 953.114UK, 953.115UK, 953.116UK User Manual



Version 2.0



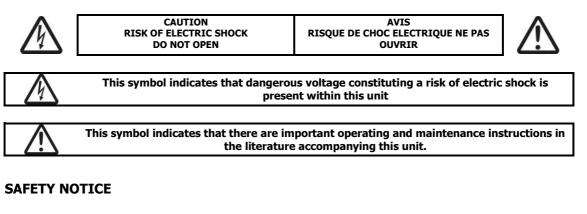
Caution: Please read this manual carefully before operating Damage caused by misuse is not covered by the warranty



Introduction

Thank you for choosing the Adastra RM-series rackmount 100V amplifier as part of your public address system. This amplifier is designed to offer high quality, dependable service for mobile and installed systems. Please read this manual fully and follow the instructions to achieve the best results with your new purchase and to avoid damage through misuse.

SAFETY SYMBOL AND MESSAGE CONVENTIONS



- 1. Prior to use, read through this manual
- 2. Keep the manual in good condition
- 3. Pay attention to safety warnings
- 4. Observe all operating requirements
- 5. Do not use the device near water or wet areas
- 6. For cleaning, only use a lint-free, dry cloth
- 7. Install according to the specifications
- 8. Place away from heat sources or heating appliances
- 9. Use mains lead provided and avoid damage to cable or connectors
- 10. Unplug power from mains during stormy weather or if unused for long periods
- 11. In case of malfunction, water ingress or other damage, consult qualified service personnel
- 12. Do not place in damp areas or near liquids or moisture. Do not spill liquids on the housing
- 13. Please pay attention to warning symbols during transit and placement
- 14. Terminals marked with the *[†]* symbol are HAZARDOUS LIVE and should only be connected by qualified personnel
- 15. Ensure that the apparatus is connected to a mains socket with a protective EARTH connection
- 16. Ensure correct operation of the mains switch

Warning

To prevent the risk of fire or electric shock, do not expose any components to rain or moisture.

If liquids are spilled on the casing, stop using immediately, allow unit to dry out and have checked by qualified personnel before further use. Avoid impact, extreme pressure or heavy vibration to the case

No user serviceable parts inside - Do not open the case - refer all servicing to qualified service personnel.

Safety

- Check for correct mains voltage and condition of IEC lead before connecting to power outlet
- Use double insulated speaker wire with adequate current rating for 100V speaker connections
- Only use one type of output i.e. 8Ω or 100V do not mix or combine these outputs on a single zone or output
- Do not connect 8Ω speakers to the 100V terminal or 100V speakers to the 8Ω terminal
- Do not allow any foreign objects to enter the case or through the ventilation grilles

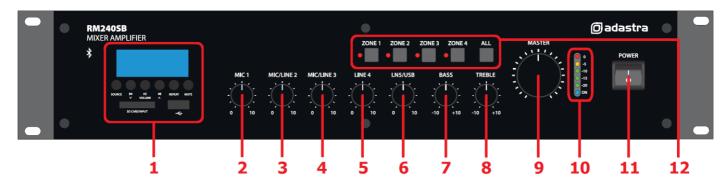
Placement

- Keep out of direct sunlight and away from heat sources
- Keep away from damp or dusty environments
- For rack-mounting, use the rack ears provided and ensure adequate support for the weight of the amplifier
- Ensure adequate air-flow and do not cover cooling vents at the front and rear of the amplifier
- Ensure adequate access to controls and connections

Cleaning

- Use a soft cloth with a neutral detergent to clean the casing as required
- Use a vacuum cleaner to clear ventilation grilles of any dust or debris build-ups
- Do not use strong solvents for cleaning the unit

Front panel

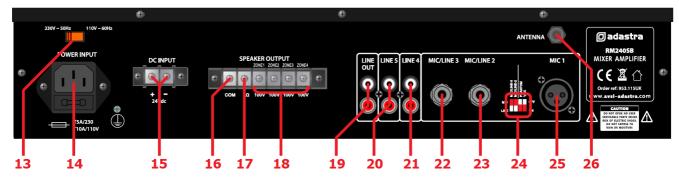


9.

- 1. USB/SD/FM/BT media player
- MIC 1 volume control 2.
- 3. MIC/LINE 2 volume control
- 4. MIC/LINE 3 volume control
- 5. LINE 4 volume control
- 6. LN5/USB volume control

- 7. BASS EQ control 8.
 - **TREBLE EQ control**
 - MASTER volume control
- 10. VU level meter
- 11. POWER on/off switch
- Speaker zone selector buttons (RM240/360SB only) 12.

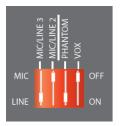




- 13. Mains voltage switch
- 14. IEC mains inlet & fuse holder
- 15. DC power terminals
- 16. COM speaker terminal
- 17. 8Ω speaker terminal
- 100V speaker terminal (4 zones for RM240/360SB) 18.
- LINE OUT connectors (RCA) 19.

- 20. LINE 5 input (RCA)
- LINE 4 input (RCA) 21.
- MIC/LINE 3 input (6.3mm jack) 22.
- 23. MIC/LINE 2 input (6.3mm jack)
- 24. DIP switches (see DIP switches section below)
- 25. MIC 1 input (balanced XLR)
- Antenna connection for FM tuner 26.

DIP switches



MIC 1 channel has an option for +20V phantom power for condenser microphones and paging microphones with chimes.

MIC 1 also has the option of VOX control, which attenuates the line input channels 4 and 5 by -40dB when MIC 1 signal is detected and returns them to normal when MIC 1 signal is silent.

MIC/LINE 2 (23) and MIC/LINE 3 (22) inputs can be set to MIC (up position) or LINE (down position) sensitivity to suit the type of input being used. Be sure to make these DIP switch settings when the amplifier is switched off. Making any changes when the amplifier is powered up may cause loud transient noises which can damage the speakers.

Connection and setup

Connect the rear IEC inlet (14) to the mains using the supplied mains lead (or an equivalent approved type). Ensure that the voltage is correct as indicated on the voltage selector (13) and that the mains outlet is switched on.

Alternatively, the amplifier can be powered by a 24V battery, such as a lorry or boat battery, by connecting the "+" and "-" of the battery to the 24Vdc INPUT (15) on the rear panel. Ensure that DC cables are capable of handling the current (10A min. recommended)

The RM series amplifiers have a total of 5 input channels. MIC 1 input (25) is fed to a dedicated microphone channel. Connect the main announcement microphone to this channel using a balanced XLR lead.

Connect microphones or mono line inputs to MIC/LINE 2 and MIC/LINE 3 inputs using good quality 6.3mm jack leads. Make sure the correct sensitivity is selected for the type of input source.

Connect any other line level audio inputs to the LINE 4 (21) and LINE 5 (20) connectors on the rear panel using good quality RCA leads. Since RM series amplifiers have a mono output, stereo signals will be summed together.

Further mixer-amplifiers or slave amplifiers can be connected from the rear LINE OUT sockets, again using a good quality RCA lead. This output carries the full mix of all channels 1 - 5 as produced through the speakers.

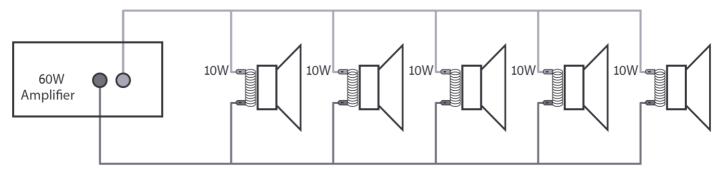
Speaker outputs

The RM series amplifiers can be used either as 100V line amplifiers or standard low impedance power amplifiers. These 2 configurations cannot be used together, so it is important to decide which method will be used at the start.

100V line systems

For 100V line systems, connect the amplifier to the first speaker in the system using double-insulated speaker wire which has adequate current rating to handle the total output of the amplifier.

Connect the "100V" (18) output terminal to the positive (+) connection of the speaker and "COM" output (16) to the negative (-) connection of the speaker. Connect further speakers in parallel to the first speaker with all positive terminals and connected together and all negative terminals connected together as shown below.



A 100V line speaker system can comprise of many speakers connected together. The determining factor for how many speakers can be used on a single amplifier is the power rating. For most purposes, it is advised to connect as many speakers as needed with a combined wattage of no more than 90% of the amplifier's output power rating.

The terminals of a 100V speaker are connected to a transformer and in some cases, this transformer may be "tapped" for different power ratings. These tappings can be used to adjust the wattage (and output volume) of each speaker in the system to help achieve the ideal total power of the system for the amplifier.

Speaker switching zones (RM240SB and RM360SB)

The RM240SB and RM360SB have 4 separate terminals for 100V speakers. Any 100V speakers connected to the terminals labelled ZONE 1/ ZONE 2 / ZONE 3 / ZONE 4 (+) and COM (-) will be governed by 4 front panel speaker switches (e.g. a speaker connected to ZONE 1 and COM will only work if Zone 1 is selected on the front panel)

There is also a switch labelled "ALL" on the front panel which enables zones 1 to 4 all at once.

Low impedance systems

Alternatively, the RM series amplifiers can provide an output for a single 8Ω speaker by connecting the " 8Ω " terminal (16) to the positive (+) speaker connection and "COM" terminal (15) to the negative (-) speaker connection.

It is important to ensure that the speaker load is no less than 8Ω and that the power handling of the speaker is equal to or greater than the output power of the amplifier. Do not use 8Ω and 100V at the same time.

Operation

When all connections to the amplifier are made, turn all rotary controls down and switch on the power (11) and a power "ON" LED will illuminate.

Turn BASS and TREBLE controls to the 12 o'clock position (pointing straight up) and turn the MASTER rotary control (9) up part way for testing.

Ensure a signal is being fed to one of the line inputs 2, 3, 4 or 5 and gradually increase the volume control for that channel until the output is heard through the speakers.

Turn up the MASTER to the maximum required volume level and reduce the channel volume control if necessary.

Repeat this process for any other line inputs connected to channels 2, 3, 4 or 5.

Note: If a line input is not connected to an RM series mixer-amplifier, the initial test can be made using the built-in media player. See the "Media player" section for instructions.

Both the media player output and LINE 5 input are governed by the LN5/USB volume control.

The output of the amplifier is represented on the VU meter LEDs (10) and care should be taken that the Red "0" LED is only lit momentarily during use. Anything longer than a short flash of this LED may be indicating distortion or clipping of the output signal and the MASTER volume control or channel volume control should be turned down.

If a microphone is connected to MIC 1 input, make sure it is switched on and if it requires phantom power, make sure this feature is enabled on the DIP switch. Gradually increase the MIC 1 control (2) whilst speaking into the microphone until the required volume level is reached. The microphone should not be able to "hear" the speakers, which can cause feedback (squealing or howling noise).

Repeat this process for microphones or line inputs connected via the MIC/LINE 2 and MIC/LINE 3 inputs.

If the VOX feature is enabled, audio playback through channels 4 and 5 will be reduced in volume automatically when speaking into MIC 1.

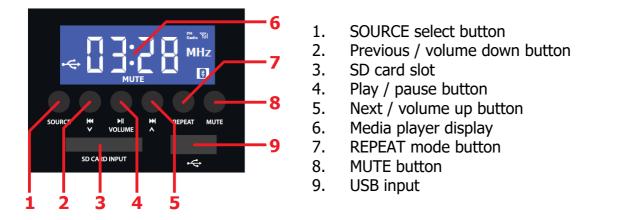
In addition to channel and MASTER volume controls, there are BASS and TREBLE EQ controls to adjust the tone of the overall output. At the 12 o'clock position, these controls are applying no effect to the signal (no boost or cut).

Moving the BASS control clockwise boosts the low frequencies in the audio, whilst moving it anticlockwise will cut these low frequencies.

Likewise, moving the TREBLE control clockwise boosts the high frequencies in the audio, whilst moving it anticlockwise will cut these high frequencies.

Adjust these EQ controls to suit the type of audio signal or compensate for the room acoustics.

Media player



RM60B, RM120B, RM240SB and RM360SB mixer-amplifiers are fitted with a built-in media player. This section comprises a Bluetooth receiver, USB/SD audio player and FM tuner. Pressing the SOURCE select button (1) will step through "bt" (Bluetooth), USB, SD card and FM tuner modes.

Bluetooth

The Bluetooth function allows connection of a smart phone or tablet to the media player section for playback of stored files or streamed digital audio. In order to enable this function, it will be necessary to pair the sending device to the receiver as follows.

- 1. Open the Bluetooth settings menu on the smart phone or tablet (or other sending device)
- 2. Scan for Bluetooth devices and look for "adastra" in the list of available devices (ensure that the RM amp is powered on and within reception range)
- 3. Select "adastra" and the sending device should confirm that it is connected as an audio device
- 4. Play audio from the sending device, ensuring that volume controls are not turned down/muted
- 5. Turn up the USB/LN5 volume control on the amplifier to the required level

The Previous, Next and Play/pause buttons will operate in Bluetooth as remote playback controls. Holding the Previous track or Next track buttons (2, 5) will adjust the output volume of the player.

FM Tuner

The FM tuner function operates in the same way as a standard FM radio and benefits from the connection of an FM antenna to the rear panel 'F' type connector. If no channels are tuned in, press the Play/Pause button (4) to begin auto tuning, which scans available stations and stores them as channels within the FM tuner. Pressing Play/Pause again will abort the auto-tuning.

To step through pre-set stations, press the Previous or Next buttons.

Holding the Previous track or Next track buttons will adjust the output volume of the player.

USB/SD player

When a USB memory stick is inserted into the USB port (9) or SD card into the SD slot (3), the USB or SD symbol will show in the display and any compressed audio files will start to play automatically. The last connected media will take priority. If playback does not start automatically, press the SOURCE select button (1) and Play/Pause button (4) to check if the player is set to the correct mode. Try Previous track and Next track buttons (2, 5) if the selected track is unable to play. Otherwise, check that the audio files are standard compressed type.

Turn up the USB/LN5 volume control gradually to hear the output from the speakers and increase to the required level.

Normal playback will read through all tracks on the storage device. Pressing the REPEAT button (7) will step through the repeat modes – ONE (repeat current track), rAND (random), ALL (repeat all)

Pressing the Previous track button (2) briefly steps backwards through tracks on the memory device. Press and hold this button to decrease the playback volume.

Pressing the Next track button (5) briefly steps forwards through tracks on the memory device. Press and hold this button to increase the playback volume.

To pause the current track, press the Play/Pause button (4) and press it again to resume playback. The display shows the track number when a track is selected and then elapsed time during playback

To avoid loud pops through the speakers, turn down the MASTER control before powering down.

Specifications

| | RM60B | RM120B | RM240SB | RM360SB |
|---------------------------|---|-----------------|---------------|---------------|
| Power supply | 110/230Vac, 50/60Hz (IEC) or 24Vdc option (screw terminals) | | | |
| Output power: RMS | 60Wrms | 120Wrms | 240Wrms | 360Wrms |
| Outputs : Speaker | 100V / 8Ω / COM | 100V / 8Ω / COM | 4x100V/8Ω/COM | 4x100V/8Ω/COM |
| Output: Line | RCA signal output | | | |
| Inputs | Mic XLR, 2 x mic/line jack, 2 x RCA line | | | |
| Volume controls | Mic1, mic/line2+3, line4+5 (USB), master | | | |
| Equalizer : Bass / Treble | 100Hz ±10dB / 10kHz ±10dB | | | |
| Bluetooth version | 2.0 | | | |
| Phantom power | +20V (MIC 1 input) | | | |
| THD | <1.0% | | | |
| Dimensions | 433 x 320 x 89mm 433x410x89mm | | | |
| Weight | 5.98kg | 8.36kg | 9.62kg | 12.68kg |

Troubleshooting

| No power LED on control panel Ensure IEC lead is in good condition and connected properly Ensure POWER switch is on and check mains inlet fuse Power LED is on but no other LEDs Check input signals and condition of input connection leads and no output Check MASTER, MIC, LINE or USB/SD volume controls are turned up Check speaker output terminals are connected correctly Power light and output LEDs lighting but no output Check speakers are working (test on another amp if available) Check memory device is connected properly (remove and re-insert) Check is paakers are working device is connected orrectly Check memory device works on a PC or Mac for standard playback Magnetic connect Ensure that Bluetooth is enabled on sending device Ensure that Bluetooth is enabled on sending device Ensure that the sending device is within Bluetooth range (5-10m) Bluetooth cannot connect If there are more than one "adastra" devices, check each in turn If one of many "adastra" is the connected device If there are more than one "adastra" devices, check each in sunted No audio from Bluetooth device Ensure that volume controls are not turned down on sending device Check volume and Play/Pause buttons in case Bluetooth is muted Ensure Hi-Z line level input(s) not connected via MIC input Output too loud or distorted Check Kor quiet recording of media files on USB Output too quiet or inaudible< | P | | | |
|---|-----------------------------------|---|--|--|
| Power LED is on but no other LEDs and no outputCheck input signals and condition of input connection leadsPower light and output LEDs lighting but no outputCheck MASTER, MIC, LINE or USB/SD volume controls are turned up Check speaker output terminals are connected correctlyPower light and output LEDs lighting but no outputCheck speaker output terminals are connected correctly Check speakers are working (test on another amp if available) Check memory device is connected properly (remove and re-insert) Check file types – standard compressed digital audio files required Check memory device works on a PC or Mac for standard playback Ensure that Bluetooth is enabled on sending deviceBluetooth cannot connectEnsure that the sending device is within Bluetooth range (5-10m) Check that "adastra" is the connected device If there are more than one "adastra" devices, check each in turn If one of many "adastra" devices, rename it on the sending device | No power LED on control panel | | | |
| and no outputCheck MASTER, MIC, LINE or USB/SD volume controls are turned upPower light and output LEDs lighting but no outputCheck speakers are working (test on another amp if available) Check speakers are working (test on another amp if available) Check speakers are working (test on another amp if available) Check speakers are working (test on another amp if available) Check speakers are working (test on another amp if available) Check speakers are working (test on another amp if available) Check speakers are working (test on another amp if available) Check speakers are working (test on another amp if available) Check file types – standard compressed digital audio files required Check memory device works on a PC or Mac for standard playback Ensure that Bluetooth is enabled on sending deviceBluetooth cannot connectEnsure that Bluetooth is enabled on sending device Ensure that the sending device is within Bluetooth range (5-10m)No audio from Bluetooth deviceIf there are more than one "adastra" devices, rename it on the sending device Check volume and Play/Pause buttons in case Bluetooth is mutedOutput too loud or distortedReduce MIC, LINE IN, USB/SD and/or MASTER levelOutput too quiet or inaudibleCheck for quiet recording of media files on USB Check VOX override is not unintentionally suppressing audio playbackNo microphone outputCheck phantom power is enabled if using a condenser microphone Face microphoneFeedback from microphoneFace microphone away from speakers are not monitors and reduce level Ensure total 100V speaker watage is lower than amplifier rating Ensure that 100V and 8Ω speakers are not both connected | | Ensure POWER switch is on and check mains inlet fuse | | |
| Power light and output LEDs lighting but no outputCheck speakers are working (test on another amp if available) Check memory device is connected properly (remove and re-insert) Check file types – standard compressed digital audio files required Check file types – standard compressed digital audio files required Check file types – standard compressed digital audio files required Check file types – standard compressed digital audio files required Check file types – standard compressed digital audio files required Check file types – standard compressed digital audio files required Check memory device works on a PC or Mac for standard playback Ensure that Bluetooth is enabled on sending device Ensure that Bluetooth is enabled on sending device Ensure that Bluetooth is enabled on sending deviceBluetooth cannot connectEnsure that Bluetooth is enabled on sending device Ensure that valastra" devices, rename it on the sending deviceNo audio from Bluetooth deviceEnsure that volume controls are not turned down on sending device Check volume and Play/Pause buttons in case Bluetooth is mutedOutput too loud or distortedReduce MIC, LINE IN, USB/SD and/or MASTER level Ensure Hi-Z line level input(s) not connected via MIC input Increase MIC, LINE IN, USB/SD and/or MASTER levelOutput too quiet or inaudibleCheck phantom power is enabled if using a condenser microphone Face microphone away from speakers and monitors and reduce level Ensure coling vents are clear from debris and dust Check that 80 speakers are not connected to 100V terminals Ensure that 100V and 80 speakers are not both connected | Power LED is on but no other LEDs | Check input signals and condition of input connection leads | | |
| Power light and output LEDs lighting but no outputCheck speakers are working (test on another amp if available) Check memory device is connected properly (remove and re-insert) Check file types – standard compressed digital audio files required Check memory device works on a PC or Mac for standard playbackBluetooth cannot connectEnsure that Bluetooth is enabled on sending device Ensure that Bluetooth is enabled on sending deviceBluetooth cannot connectIf there are more than one "adastra" devices, check each in turn If one of many "adastra" devices, rename it on the sending device Check volume and Play/Pause buttons in case Bluetooth is mutedNo audio from Bluetooth deviceReduce MIC, LINE IN, USB/SD and/or MASTER level Ensure thi-Z line level input(5) not connected via MIC inputOutput too loud or distortedIncrease MIC, LINE IN, USB/SD and/or MASTER level Check for quiet recording of media files on USB Check VOX override is not unintentionally suppressing audio playbackNo microphone outputCheck phantom power is enabled if using a condenser microphone Face microphone away from speakers and monitors and reduce level Ensure cooling vents are clear from debris and dust Check that 8Ω speakers are not connected to 100V terminals Ensure that 100V speaker wattage is lower than amplifier rating Ensure that 100V and 8Ω speakers are not both connected | and no output | Check MASTER, MIC, LINE or USB/SD volume controls are turned up | | |
| Power light and outputCheck memory device is connected properly (remove and re-insert)lighting but no outputCheck memory device is connected properly (remove and re-insert)Check file types – standard compressed digital audio files requiredCheck memory device works on a PC or Mac for standard playbackEnsure that Bluetooth is enabled on sending deviceEnsure that Bluetooth is enabled on sending deviceEnsure that the sending device is within Bluetooth range (5-10m)Check that "adastra" is the connected deviceIf there are more than one "adastra" devices, check each in turnIf one of many "adastra" devices, rename it on the sending deviceNo audio from Bluetooth deviceEnsure that volume controls are not turned down on sending deviceCheck volume and Play/Pause buttons in case Bluetooth is mutedOutput too loud or distortedReduce MIC, LINE IN, USB/SD and/or MASTER levelCutput too quiet or inaudibleCheck for quiet recording of media files on USBCheck VOX override is not unintentionally suppressing audio playbackNo microphone outputFeedback from microphoneFace microphone away from speakers and monitors and reduce levelEnsure cooling vents are clear from debris and dustCheck that 8Ω speakers are not connected to 100V terminalsEnsure total 100V speaker wattage is lower than amplifier ratingEnsure total 100V and 8Ω speakers are not both connected | | | | |
| lighting but no outputCheck memory device is connected properly (remove and re-insert) Check file types – standard compressed digital audio files required Check memory device works on a PC or Mac for standard playback Ensure that Bluetooth is enabled on sending deviceBluetooth cannot connectEnsure that Bluetooth is enabled on sending device Ensure that the sending device is within Bluetooth range (5-10m)Bluetooth cannot connectCheck that "adastra" is the connected device If there are more than one "adastra" devices, check each in turn If one of many "adastra" devices, rename it on the sending device Ensure that volume controls are not turned down on sending device Check volume and Play/Pause buttons in case Bluetooth is mutedOutput too loud or distortedReduce MIC, LINE IN, USB/SD and/or MASTER level Ensure Hi-Z line level input(s) not connected via MIC input Increase MIC, LINE IN, USB/SD and/or MASTER levelOutput too quiet or inaudibleCheck k phantom power is enabled if using a condenser microphone Face microphone away from speakers and monitors and reduce level Ensure cooling vents are clear from debris and dust Check that 8Ω speakers are not connected to 100V terminals Ensure total 100V speaker wattage is lower than amplifier rating Ensure that 100V and 8Ω speakers are not both connected | Power light and output LEDs | | | |
| Line types - standard compressed digital audio files required Check memory device works on a PC or Mac for standard playbackBluetooth cannot connectEnsure that Bluetooth is enabled on sending device Ensure that the sending device is within Bluetooth range (5-10m)Bluetooth cannot connectCheck that "adastra" is the connected device If there are more than one "adastra" devices, check each in turn If one of many "adastra" devices, rename it on the sending device Check volume and Play/Pause buttons in case Bluetooth is mutedNo audio from Bluetooth deviceEnsure that volume controls are not turned down on sending device Check volume and Play/Pause buttons in case Bluetooth is mutedOutput too loud or distortedReduce MIC, LINE IN, USB/SD and/or MASTER level Ensure Hi-Z line level input(s) not connected via MIC input Increase MIC, LINE IN, USB/SD and/or MASTER level Check VOX override is not unintentionally suppressing audio playbackNo microphone outputCheck phantom power is enabled if using a condenser microphone Face microphone away from speakers and monitors and reduce level Ensure cooling vents are clear from debris and dust Check that 8Ω speakers are not connected to 100V terminalsAmplifier overheatingEnsure total 100V speaker wattage is lower than amplifier rating Ensure that 100V and 8Ω speakers are not both connected | 5 | | | |
| Bluetooth cannot connectEnsure that Bluetooth is enabled on sending device Ensure that the sending device is within Bluetooth range (5-10m) Check that "adastra" is the connected device If there are more than one "adastra" devices, check each in turn If one of many "adastra" devices, rename it on the sending device Ensure that volume controls are not turned down on sending device Check volume and Play/Pause buttons in case Bluetooth is mutedNo audio from Bluetooth deviceReduce MIC, LINE IN, USB/SD and/or MASTER level Ensure Hi-Z line level input(s) not connected via MIC input Increase MIC, LINE IN, USB/SD and/or MASTER levelOutput too quiet or inaudibleCheck for quiet recording of media files on USB Check VOX override is not unintentionally suppressing audio playbackNo microphone outputCheck phantom power is enabled if using a condenser microphone Ensure cooling vents are clear from debris and dust Check that 8Ω speakers are not connected to 100V terminals Ensure total 100V speaker wattage is lower than amplifier rating Ensure that 100V and 8Ω speakers are not both connected | | Check file types – standard compressed digital audio files required | | |
| Bluetooth cannot connectEnsure that the sending device is within Bluetooth range (5-10m)Bluetooth cannot connectCheck that "adastra" is the connected deviceIf there are more than one "adastra" devices, check each in turnIf one of many "adastra" devices, rename it on the sending deviceNo audio from Bluetooth deviceEnsure that volume controls are not turned down on sending deviceOutput too loud or distortedReduce MIC, LINE IN, USB/SD and/or MASTER levelOutput too quiet or inaudibleIncrease MIC, LINE IN, USB/SD and/or MASTER levelOutput too quiet or inaudibleCheck for quiet recording of media files on USBNo microphone outputCheck phantom power is enabled if using a condenser microphoneFeedback from microphoneFace microphone away from speakers and monitors and reduce levelEnsure total 100V speaker wattage is lower than amplifier rating Ensure that 100V and 8Ω speakers are not both connected | | Check memory device works on a PC or Mac for standard playback | | |
| Bluetooth cannot connectCheck that "adastra" is the connected deviceIf there are more than one "adastra" devices, check each in turnIf one of many "adastra" devices, rename it on the sending deviceNo audio from Bluetooth deviceEnsure that volume controls are not turned down on sending deviceOutput too loud or distortedReduce MIC, LINE IN, USB/SD and/or MASTER levelOutput too quiet or inaudibleIncrease MIC, LINE IN, USB/SD and/or MASTER levelOutput too quiet or inaudibleCheck for quiet recording of media files on USBNo microphone outputCheck phantom power is enabled if using a condenser microphoneFeedback from microphoneFace microphone away from speakers and monitors and reduce levelEnsure total 100V speaker wattage is lower than amplifier ratingEnsure total 100V speaker sare not both connected | | Ensure that Bluetooth is enabled on sending device | | |
| If there are more than one "adastra" devices, check each in turnIf one of many "adastra" devices, rename it on the sending deviceNo audio from Bluetooth deviceEnsure that volume controls are not turned down on sending deviceOutput too loud or distortedReduce MIC, LINE IN, USB/SD and/or MASTER levelOutput too quiet or inaudibleReduce MIC, LINE IN, USB/SD and/or MASTER levelOutput too quiet or inaudibleIncrease MIC, LINE IN, USB/SD and/or MASTER levelOutput too quiet or inaudibleCheck volume and Play/Pause buttons in case Bluetooth is mutedNo microphone outputCheck for quiet recording of media files on USBNo microphone outputCheck phantom power is enabled if using a condenser microphoneFeedback from microphoneFace microphone away from speakers and monitors and reduce levelEnsure cooling vents are clear from debris and dustCheck that 8Ω speakers are not connected to 100V terminalsEnsure total 100V speaker wattage is lower than amplifier ratingEnsure total 100V and 8Ω speakers are not both connected | | Ensure that the sending device is within Bluetooth range (5-10m) | | |
| If one of many "adastra" devices, rename it on the sending deviceNo audio from Bluetooth deviceEnsure that volume controls are not turned down on sending deviceOutput too loud or distortedReduce MIC, LINE IN, USB/SD and/or MASTER levelOutput too quiet or inaudibleIncrease MIC, LINE IN, USB/SD and/or MASTER levelOutput too quiet or inaudibleCheck for quiet recording of media files on USBOn microphone outputCheck phantom power is enabled if using a condenser microphoneFeedback from microphoneFace microphone away from speakers and monitors and reduce levelEnsure cooling vents are clear from debris and dustCheck that 8Ω speakers are not connected to 100V terminalsAmplifier overheatingEnsure total 100V speaker wattage is lower than amplifier rating | Bluetooth cannot connect | Check that "adastra" is the connected device | | |
| No audio from Bluetooth deviceEnsure that volume controls are not turned down on sending device Check volume and Play/Pause buttons in case Bluetooth is mutedOutput too loud or distortedReduce MIC, LINE IN, USB/SD and/or MASTER level Ensure Hi-Z line level input(s) not connected via MIC input Increase MIC, LINE IN, USB/SD and/or MASTER levelOutput too quiet or inaudibleCheck for quiet recording of media files on USB Check VOX override is not unintentionally suppressing audio playbackNo microphone outputCheck phantom power is enabled if using a condenser microphone Ensure cooling vents are clear from debris and dust Check that 8Ω speakers are not connected to 100V terminalsAmplifier overheatingEnsure total 100V speaker wattage is lower than amplifier rating Ensure that 100V and 8Ω speakers are not both connected | | If there are more than one "adastra" devices, check each in turn | | |
| No audio from Bluetooth deviceCheck volume and Play/Pause buttons in case Bluetooth is mutedOutput too loud or distortedReduce MIC, LINE IN, USB/SD and/or MASTER levelOutput too quiet or inaudibleIncrease MIC, LINE IN, USB/SD and/or MASTER levelOutput too quiet or inaudibleCheck for quiet recording of media files on USBOutput too nucputCheck phantom power is enabled if using a condenser microphoneFeedback from microphoneFace microphone away from speakers and monitors and reduce levelEnsure cooling vents are clear from debris and dustAmplifier overheatingEnsure total 100V speaker wattage is lower than amplifier rating Ensure that 100V and 8Ω speakers are not both connected | | If one of many "adastra" devices, rename it on the sending device | | |
| Check volume and Play/Pause buttons in case Bluetooth is mutedOutput too loud or distortedReduce MIC, LINE IN, USB/SD and/or MASTER level Ensure Hi-Z line level input(s) not connected via MIC inputOutput too quiet or inaudibleIncrease MIC, LINE IN, USB/SD and/or MASTER level Check for quiet recording of media files on USB Check VOX override is not unintentionally suppressing audio playbackNo microphone outputCheck phantom power is enabled if using a condenser microphoneFeedback from microphoneFace microphone away from speakers and monitors and reduce levelEnsure cooling vents are clear from debris and dust Check that 8Ω speakers are not connected to 100V terminalsAmplifier overheatingEnsure total 100V speaker wattage is lower than amplifier rating Ensure that 100V and 8Ω speakers are not both connected | No audio from Bluetoeth device | Ensure that volume controls are not turned down on sending device | | |
| Output too loud or distortedEnsure Hi-Z line level input(s) not connected via MIC inputOutput too quiet or inaudibleIncrease MIC, LINE IN, USB/SD and/or MASTER levelOutput too quiet or inaudibleCheck for quiet recording of media files on USBNo microphone outputCheck phantom power is enabled if using a condenser microphoneFeedback from microphoneFace microphone away from speakers and monitors and reduce levelEnsure cooling vents are clear from debris and dustCheck that 8Ω speakers are not connected to 100V terminalsEnsure total 100V speaker wattage is lower than amplifier ratingEnsure that 100V and 8Ω speakers are not both connected | | Check volume and Play/Pause buttons in case Bluetooth is muted | | |
| Ensure HI-2 line level input(s) not connected Via MIC inputIncrease MIC, LINE IN, USB/SD and/or MASTER levelOutput too quiet or inaudibleCheck for quiet recording of media files on USBCheck VOX override is not unintentionally suppressing audio playbackNo microphone outputCheck phantom power is enabled if using a condenser microphoneFeedback from microphoneFace microphone away from speakers and monitors and reduce levelEnsure cooling vents are clear from debris and dustCheck that 8Ω speakers are not connected to 100V terminalsEnsure total 100V speaker wattage is lower than amplifier ratingEnsure that 100V and 8Ω speakers are not both connected | Output too loud or dictorted | Reduce MIC, LINE IN, USB/SD and/or MASTER level | | |
| Output too quiet or inaudibleCheck for quiet recording of media files on USB Check VOX override is not unintentionally suppressing audio playbackNo microphone outputCheck phantom power is enabled if using a condenser microphoneFeedback from microphoneFace microphone away from speakers and monitors and reduce levelEnsure cooling vents are clear from debris and dust Check that 8Ω speakers are not connected to 100V terminalsAmplifier overheatingEnsure total 100V speaker wattage is lower than amplifier rating Ensure that 100V and 8Ω speakers are not both connected | | Ensure Hi-Z line level input(s) not connected via MIC input | | |
| Check VOX override is not unintentionally suppressing audio playbackNo microphone outputCheck phantom power is enabled if using a condenser microphoneFeedback from microphoneFace microphone away from speakers and monitors and reduce levelEnsure cooling vents are clear from debris and dustCheck that 8Ω speakers are not connected to 100V terminalsAmplifier overheatingEnsure total 100V speaker wattage is lower than amplifier ratingEnsure that 100V and 8Ω speakers are not both connected | | Increase MIC, LINE IN, USB/SD and/or MASTER level | | |
| No microphone outputCheck phantom power is enabled if using a condenser microphoneFeedback from microphoneFace microphone away from speakers and monitors and reduce levelEnsure cooling vents are clear from debris and dustCheck that 8Ω speakers are not connected to 100V terminalsAmplifier overheatingEnsure total 100V speaker wattage is lower than amplifier ratingEnsure that 100V and 8Ω speakers are not both connected | Output too quiet or inaudible | Check for quiet recording of media files on USB | | |
| Feedback from microphoneFace microphone away from speakers and monitors and reduce levelEnsure cooling vents are clear from debris and dustCheck that 8Ω speakers are not connected to 100V terminalsAmplifier overheatingEnsure total 100V speaker wattage is lower than amplifier ratingEnsure that 100V and 8Ω speakers are not both connected | | Check VOX override is not unintentionally suppressing audio playback | | |
| Ensure cooling vents are clear from debris and dustCheck that 8Ω speakers are not connected to 100V terminalsAmplifier overheatingEnsure total 100V speaker wattage is lower than amplifier ratingEnsure that 100V and 8Ω speakers are not both connected | No microphone output | Check phantom power is enabled if using a condenser microphone | | |
| Amplifier overheatingCheck that 8Ω speakers are not connected to 100V terminalsAmplifier overheatingEnsure total 100V speaker wattage is lower than amplifier ratingEnsure that 100V and 8Ω speakers are not both connected | Feedback from microphone | | | |
| Amplifier overheatingEnsure total 100V speaker wattage is lower than amplifier ratingEnsure that 100V and 8Ω speakers are not both connected | | Ensure cooling vents are clear from debris and dust | | |
| Ensure that 100V and 8Ω speakers are not both connected | | · · · · · | | |
| | Amplifier overheating | Ensure total 100V speaker wattage is lower than amplifier rating | | |
| Ensure that total load connected to 8Ω output is not less than 8Ω | | | | |
| | | Ensure that total load connected to 8Ω output is not less than 8Ω | | |



Disposal: The "Crossed Wheelie Bin" symbol on the product means that the product is classed as Electrical or Electronic equipment and should not be disposed with other household or commercial waste at the end of its useful life. The goods must be disposed of according to your local council guidelines.

Errors and omissions excepted. Copyright© 2017. AVSL Group Ltd.