



DJ SYSTEM CONTROL AMPLIFIER

DA-X1000

OWNER'S MANUAL



CAUTION



RISK OF ELECTRIC SHOCK – DO NOT OPEN

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



The lightning flash with arrowhead symbol, 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 electric shock to persons.



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

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE
TO RAIN OR MOISTURE.

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CONGRATULATIONS!

Thank you for purchasing the VESTAX DA-X1000 DJ System Control Amplifier. Please read this owner's manual carefully before you start to use your DA-X1000 in order to fully understand all of the special features.

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IMPORTANT (for U.K. Customers)

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.

If nonetheless the mains plug is cut off, remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

If this product is not provided with a mains plug, or one has to be fitted, then follow the instructions given below:

IMPORTANT: The wires in this mains lead are coloured in accordance with the following code:

GREEN-AND-YELLOW : EARTH

BLUE : NEUTRAL

BROWN : LIVE

WARNING:

This apparatus must be earthed. As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured GREEN-and-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol or coloured GREEN or GREEN-and-YELLOW.

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

When replacing the fuse only a correctly rated approved type should be used and be sure to re-fit the fuse cover.

IF IN DOUBT — CONSULT A COMPETENT ELECTRICIAN.

IMPORTANT SAFEGUARDS

This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions which you should be particularly aware of.

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
 - 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- Do not expose this apparatus to drips or splashes.
 - Do not place any objects filled with liquids, such as vases, on the apparatus.
 - Do not install this apparatus in a confined space such as a book case or similar unit.
 - The apparatus draws nominal non-operating power from the AC outlet with its POWER switch in the off position.

For the U.S.A

TO THE USER

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- a) Reorient or relocate the receiving antenna.
- b) Increase the separation between the equipment and receiver.
- c) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- d) Consult the dealer or an experienced radio/TV technician for help.

CAUTION

Changes or modifications to this equipment not expressly approved by VESTAX CORPORATION for compliance could void the user's authority to operate this equipment.

The DA-X1000 is a sophisticated integrated amplifier that you can use to mix and create your own performances, DJ-style and record them for future listening or to share with your friends.

Key features of the DA-X1000 include:

- the ability to connect up to 10 sound sources, including a turntable and microphone
- from these 10 sources, you can select any five channels for replay at a time
- front panel channel faders allow you to mix, cross-fade and produce other professional-sounding mixes
- colored sound indicators which show you the input volume in a uniquely easy-to-understand way
- a 5-band graphic equalizer allows you to shape the sound the way you want it
- digital and analog outputs for recording to the latest in recording technology
- you can drive two sets of speakers with 100W per side of power
- and more!

Read this manual to discover how to get the best out of the DA-X1000. Follow the instructions, and take care of the amplifier, and it will give you years of enjoyment.

Connecting the unit

Before making connections to and from the DA-X1000, make sure that the power to the DA-X1000 and all other equipment is turned off.

If you make or break connections with the power turned on, you may damage the DA-X1000 and the other equipment.

As a general rule, red connectors are used for making connections to the right channels of equipment, and the other color (usually black or white) is used for the left channels).

Speakers

When connecting speakers to the DA-X1000, make sure that they are able to handle the high power levels output by the DA-X1000.

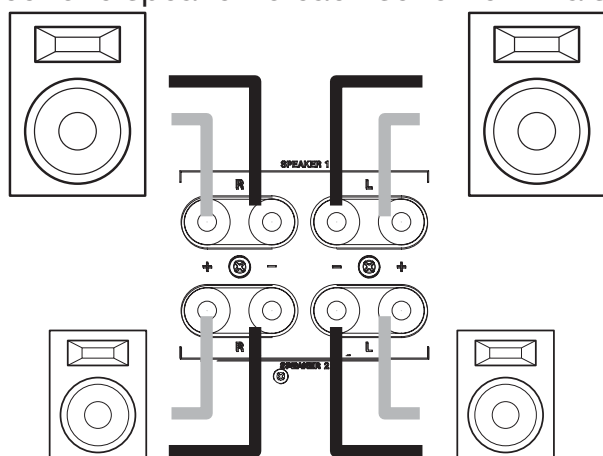
Also, the speakers must have the correct impedance.

If you are connecting one pair of speakers, the speakers should have an impedance of between 4Ω and 16Ω. If you are connecting two pairs of speakers to the DA-X1000, the speakers should have an impedance of between 8Ω and 32Ω.

If you are in any doubt about whether a set of speakers is suitable for use with the DA-X1000, consult your VESTAX dealer.

Always connect the + terminal (usually red) of a speaker to a red + speaker terminal of the DA-X1000. Connect the – terminal (usually black) of a speaker to a black – speaker terminal of the DA-X1000.

If you are connecting one pair of speakers to the DA-X1000, make sure that you connect them both either to the **SPEAKER 1** or to the **SPEAKER 2** terminals. Do not connect one speaker to each set of terminals.



Turntables

Only connect a turntable to the **PHONO** connectors on the rear panel.

Do not connect a turntable to any other connectors on the DA-X1000, and do not connect any other kind of equipment to the **PHONO** connectors.

Microphone

If you are connecting a microphone directly, use the balanced 1/4" jack on the front panel to connect a suitable microphone. Consult your VESTAX dealer if you are not sure what kind of microphone will work well with your DA-X1000.

Other sound sources

Connect other sound sources to the appropriate input jacks on the rear of the DA-X1000.

There is also a pair of input jacks on the front panel which you can use for **LINE 1** input (the alternative to the microphone).

Although there is no rule that says that you must connect tape decks to the **TAPE** jacks, CD players and recorders to the **CD(R/RW)** jacks, etc., you will find it easier to remember what's what if you make connections in this way.

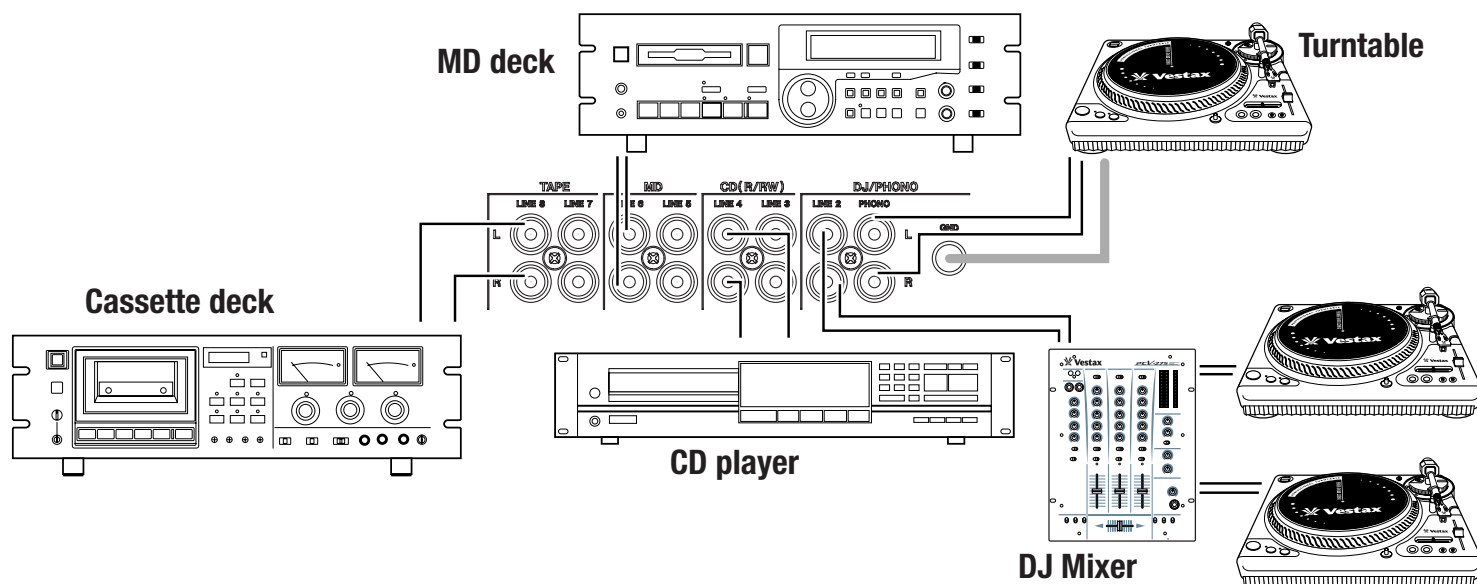
Also, the way in which the DA-X1000 handles recording also makes it sensible for you to connect tape decks to **TAPE** jacks, CD players/recorders to **CD** jacks, etc. See the section on recording your music later on for full details.

Connecting recorders

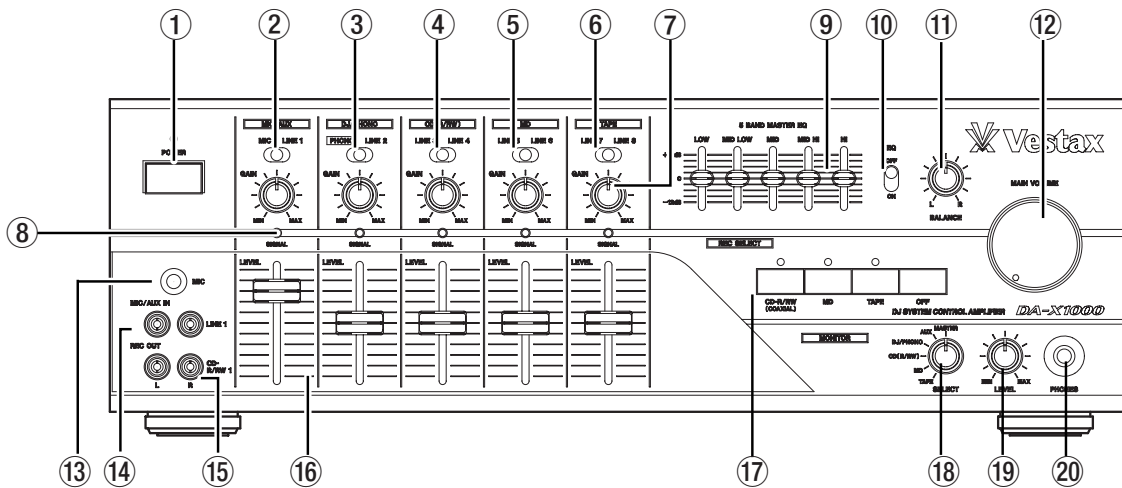
The DA-X1000 allows you to record your performances on either tape, MD (Mini Disc) or CD-R.

Connect the **REC OUT** jacks on the DA-X1000 to the **LINE IN** (or similar) jacks on your other equipment.

You can also connect an optical digital connector to a suitably-equipped CD-R/CD-RW deck.



Front panel



The front panel of the DA-X1000 has the following features. Note the following explanations given here, which will help you to make the most of the unit.

① **POWER switch and indicator** Push for on, and push again for off.

② **MIC/AUX selector switch** Use this to switch between the microphone plugged into ⑫ and the unit plugged into the front panel **LINE 1** jacks ⑬. Use the **GAIN** control to adjust the level of the input signals.

③ **DJ/PHONO switch** Use this to switch between a line-level source (for example a DJ mixer) plugged into the **LINE 2** jacks on the rear panel, and a turntable plugged into the **PHONO** inputs on the rear panel. Use the **GAIN** control to adjust the level of the input signals.

④ **CD(R/RW) switch** Use this to switch between the two devices connected to the **LINE 3** and **LINE 4** jacks on the rear panel. Use the **GAIN** control to adjust the level of the input signals.

⑤ **MD switch** Use this to switch between the two devices connected to the **LINE 5** and **LINE 6** jacks on the rear panel. Use the **GAIN** control to adjust the level of the input signals.

⑥ **TAPE switch** Use this to switch between the two devices connected to the **LINE 7** and **LINE 8** jacks on the rear panel.

⑦ **GAIN controls** Use these to adjust the level of the input signals to the channels. You should use the **SIGNAL** indicators described below to help you set the levels.

⑧ **5 BAND MASTER EQ** Use this 5-band graphic equalizer to shape the output sound to your taste. Pushing a slider up increases the level of a band, and pulling it down decreases the level.

⑨ **EQ switch** Use this switch to turn the graphic EQ on or off. When this switch is off, moving the EQ sliders has no effect on the sound.

⑩ **BALANCE** Use this to adjust the balance between the left and right speakers.

⑪ **MAIN VOLUME** Use this to adjust the level of the output signals.

⑫ **MIC jack** Connect your microphone here.

⑬ **LINE 1 jacks** Connect a device which will act as an alternative to the microphone for the **MIC/AUX** channel.

⑭ **CD-R/RW 1 jacks** Use these output jacks to connect to the recording jacks of a CD-R/RW unit whose play jacks are connected to the **CD** jacks (**LINE 3**).

⑮ **LEVEL faders** Pull these faders down to cut the signal of a channel and push them up to increase the volume.

①⑥ **SIGNAL/PEAK indicators** These indicators light green at low levels, and flash red more and more as the volume of the signal at the inputs increases. At full volume, they light almost solid red. Note that these are pre-fader indicators—in other words, moving the faders has no effect on what these indicators show.

①⑦ **REC SELECT buttons and indicators** When you want to record the music that you create, press one of these keys to select the output (that is, the unit which will record) from **CD-R/RW**, **MD** or **TAPE**, and the indicator

will light. If you are not recording, press **OFF**.

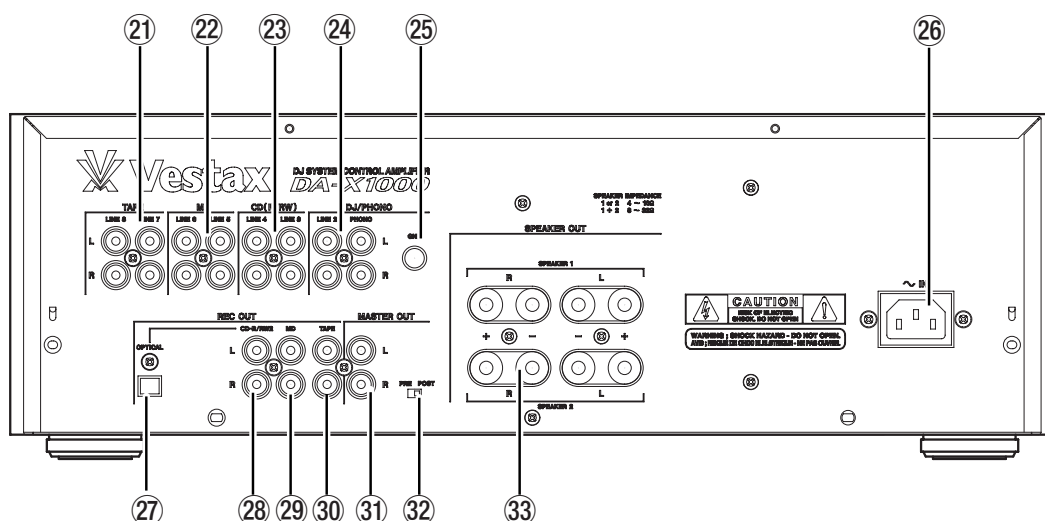
See the section on “Recording your mixes” below for some important information about recording your music.

①⑧ **MONITOR SELECT control** Turn this control so that it points to the sound that you want to monitor through the headphones. You can select any of the five channels or the **MASTER** mix.

①⑨ **MONITOR LEVEL control** Use this control to set the level of the signals you hear through the headphones.

②① **PHONES jack** Connect a pair of stereo headphones to this 1/4” jack.

Rear panel features



Read the section on “Connections” above for details of how to connect your units to the DA-X1000.

① **TAPE (LINE 7/LINE 8) jacks** Connect the **PLAY** or **OUT** jacks of tape decks to these jacks.

② **MD (LINE 5/LINE 6) jacks** Connect the **PLAY** or **OUT** jacks of MD players to these jacks.

③ **CD (R/RW) (LINE 3/LINE 4) jacks** Connect the **PLAY** or **OUT** jacks of CD players or CD recorders to these jacks.

④ **DJ/PHONO (LINE 2/PHONO) jacks** Connect a suitable source such as a DJ mixer to the **LINE 2** jack, and a turntable to the **PHONO** jack.

Do not connect anything other than a turntable to the **PHONO** jack, and do not connect turntables to any other jack.

⑤ **GND terminal** If your turntable is fitted with a grounding wire, connect it to this terminal.

⑥ **~ IN (AC input)** Connect the supplied power cable to this input. Only use the DA-X1000 with a suitable power supply, as marked on the rear panel. If you are in any doubt, consult a qualified electrician.

⑦ **REC OUT (OPTICAL) terminal** Connect this TOSLINK™ optical terminal to the optical input terminal of a suitably-equipped CD recorder. Remember that one optical connection carries both the left and right signals of a stereo pair.

⑧ **REC OUT (CDR/RW2) jacks** Connect these jacks to the analog inputs of a CD recorder, whose output jacks are connected to the **LINE 4** inputs.

⑨ **REC OUT (MD) jacks** Connect these jacks to the analog inputs of a MD player/recorder, whose output jacks are connected to the **LINE 5** or **LINE 6** inputs.

⑩ **REC OUT (TAPE) jacks** Connect these jacks to the inputs of a tape deck whose output jacks are connected to the **LINE 7** or **LINE 8** inputs.

⑪ **MASTER OUT jacks** You can connect these jacks to another slave amplifier so that your

music can be played in another room, for example. See the specifications at the end of this manual for full details of the level, etc. used here.

⑫ **MASTER OUT PRE/POST switch** Use this switch to decide whether the DA-X1000's **MAIN VOLUME** control will affect the level of the signal sent from the **MASTER OUT** jacks (the **POST** position) or whether this level is independent of the **MAIN VOLUME** setting (**PRE**).

Only change the setting of this switch with the DA-X1000 and all other equipment turned OFF.

⑬ **SPEAKER 1 and SPEAKER 2 connectors** Use these binding posts to connect speakers to the DA-X1000 as described in the section on connections above. Only connect speakers as recommended here, otherwise there is a risk of serious damage to the DA-X1000 and to the speakers.

Playback

Once all the other units are connected to the DA-X1000, you can start playing back and creating mixes.

Start by choosing a source with the selector switches (**MIC** or **LINE 1**, **PHONO** or **LINE 2**, **LINE 3** or **LINE 4**, etc.).

With the appropriate fader down at the minimum level, and the **GAIN** control also fully minimum (counterclockwise), start playback of the source unit.

Watch the **SIGNAL/CLIP** indicator so that it lights mostly red (but is not completely red all the time).

Bring up the fader, and adjust the **MAIN VOLUME** control so that the sound is at the volume you want.

Play the other sources in the same way, and practice fading the music in and out, cross-fading between the different sources, etc.

Adjusting the balance

If you are not in the middle position between your speakers, one speaker may sound louder than the other. Use the **BALANCE** control to adjust this.

Shaping the sound

To make the sound uniquely your own, you can use the **MASTER EQ** to cut and boost the different parts of the sound (bass, low mid, mid-range, high mid or treble).

Bring a fader up from the center “click” position to boost that part of the signal, and bring it down to cut that part.

As an example, a lot of people like a “smiley face” setting, with the bass and treble made louder, and the middle slightly quieter.

Remember to set the **EQ** switch to the **ON** position when you are shaping the sound, or you will not hear the effect of your settings.

Previewing what you do

Sometimes you may want to listen to some music through headphones before you play it through the speakers.

For example, you may want to cue up a track or part of a track precisely before playing it, or practice a scratch or effect.

Make sure the headphone **MONITOR SELECT** switch is turned to the source you want to preview, and you can use the headphones for cueing, etc. the source, before putting it out to the world through the speakers.

Recording your mixes

IMPORTANT NOTE: When recording, **DON'T STEAL MUSIC!**

When you have shaped and mixed your sound, you will probably want to keep a copy of your mix.

You can use either a tape deck, a CD recorder or an MD deck to record.

However, the following is very important.

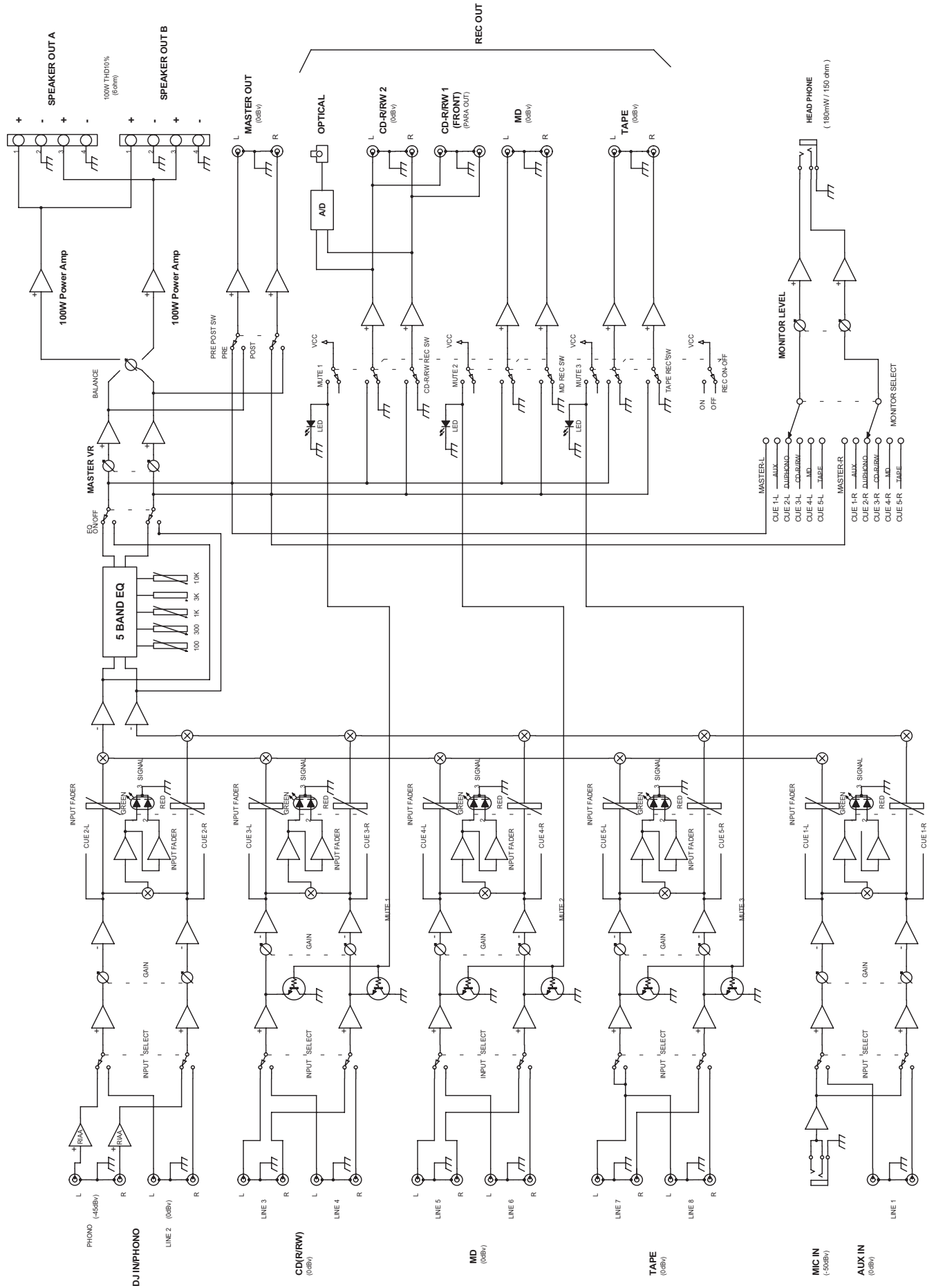
When you select a device to record to, you cannot play back through that device at the same time. Or, to put it another way, a unit cannot record itself (logical, when you think about it).

This means that when you use the **TAPE REC SELECT** button to record to tape, for example, you cannot play back from either of the **TAPE** inputs (**LINE 7** or **LINE 8**).

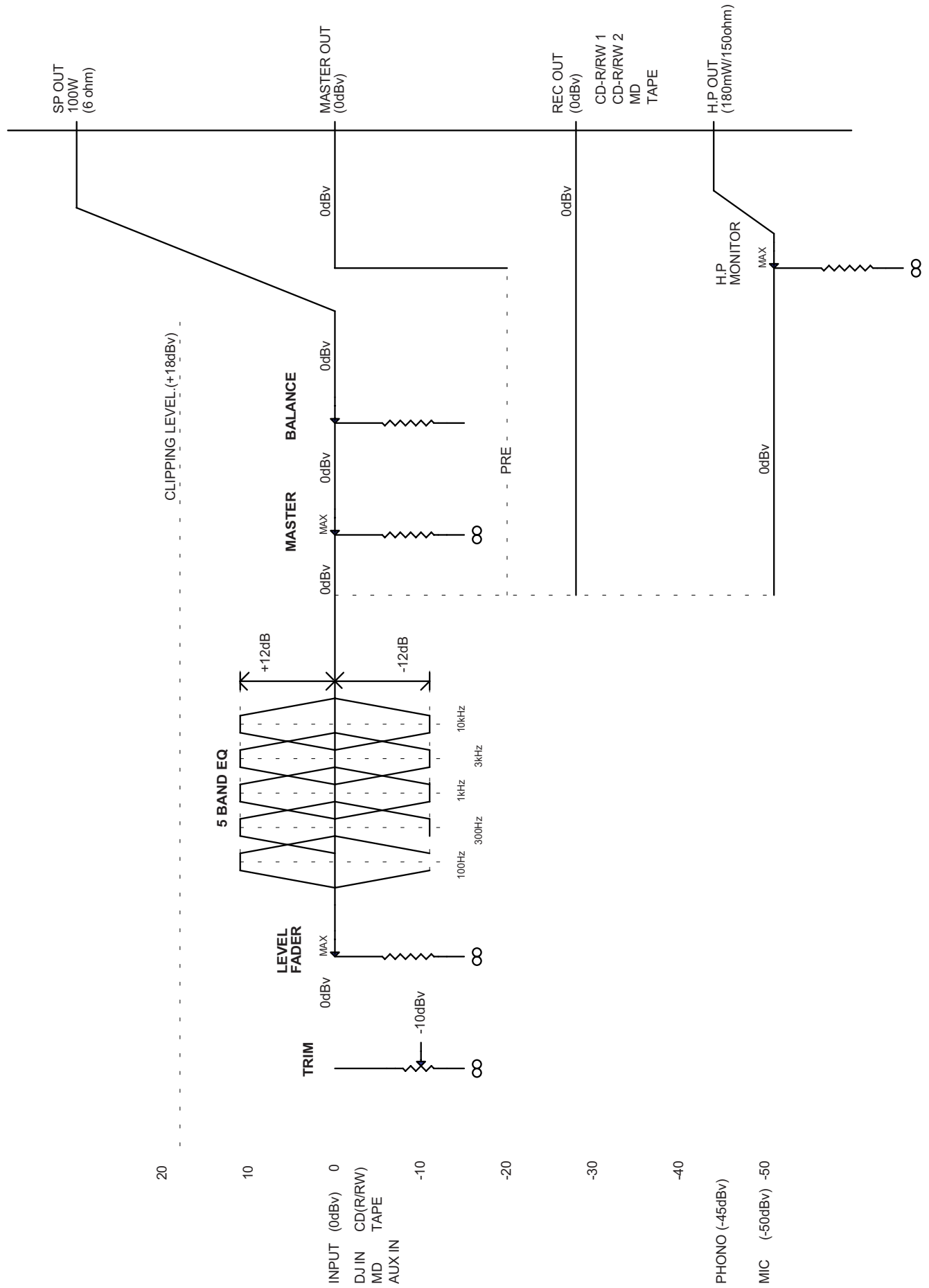
The same applies to the two **MD** inputs (**LINE 5** and **LINE 6**), and to the two CD recorders (**LINE 3** and **LINE 4**); when the **REC SELECT** buttons are pressed, playback is not possible from the corresponding inputs.

The microphone, **LINE 1**, **PHONO** and **DJ (LINE 2)** inputs are always available for playback (and therefore recording), regardless of what recording source is selected.

Block diagram



Level diagram



Specifications

Input jacks

MIC (TRS 1/4")	−50 dBV balanced, 3.3 kΩ
AUX (RCA x 2)	0 dBV, 47 kΩ
PHONO (RCA x 2)	−45 dBV (1 kHz), 47 kΩ
LINE 2 through LINE 8	0 dBV, 47 kΩ

Output jacks

CD-R/RW 1 & 2, MD and TAPE (all RCA x 2)	0 dBV, 10 kΩ
DIGITAL OUT (TOSLINK)	IEC-60958 Type II (SPDIF)
MASTER OUT (RCA x 2)	0 dBV, 10 kΩ
SPEAKER OUT x 2 pairs	100 W + 100 W (into 6 Ω)
PHONES (1/4" stereo)	180mW + 180mW into 150 Ω

Audio specifications

Input sensitivity	LINE	0 dBV (GAIN at nominal, fader at max, ±1.5 dB) Z=47 kΩ
	MIC IN	−50 dBV (GAIN at nominal, fader at max, ±2.0 dB) Z=3.3 kΩ
	PHONO	−45 dBV (GAIN at nominal, fader at max, ±2.0 dB) Z=47 kΩ
Output sensitivity	MASTER OUT	0 dBV (−50 dBV (GAIN at nominal, fader at max, ±1.5 dB), PRE/POST to PRE, Z>10 kΩ
	REC OUT (RCA)	0 dBV (−50 dBV (GAIN at nominal, fader at max, ±1.5 dB), PRE/POST to PRE, Z>10 kΩ

Other

Voltage	120 VAC/60 Hz
Power consumption	150 W
Dimensions	430 x 141 x 390 mm (17 x 6 x 15 in)
Weight	10 kg (22 lbs)

