

QUAD

99 Series Components

99 Stereo Pre-Amplifier

99 CDP-2 Compact Disc Player

99 CD-S Compact Disc Player

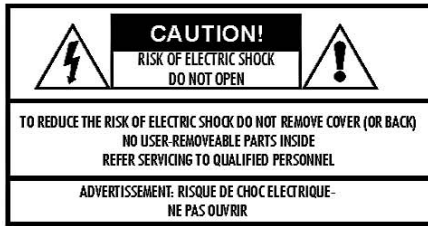
99 FM Stereo Tuner

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Sovereign Court, Ermine Business Park,
Huntingdon PE29 6XU
United Kingdom
www.quad-hifi.co.uk
Tel: 01480 447700 Fax: 01480 431767

Owner's Manual

Revised Version incorporating
QUAD CDP-2 CD Player
QUAD CD-S CD Player

IMPORTANT SAFETY INFORMATION



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.



This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.

Read these instructions.

Keep these instructions.

Heed all warnings.

Follow all instructions.

Do not use this apparatus near water.

Clean only with dry cloth.

Do not block any ventilation openings.

Install in accordance with the manufacturer's instructions.

Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

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 wider 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

absolute outlet.

Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.



Use only attachments/accessories specified by the manufacturer.

Use only with a 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.

Unplug this apparatus during lightning storms or when unused for long periods of time.

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.

Warning: To reduce the risk of fire or electrical shock, do not expose this product to rain or moisture. The product must not be exposed to dripping and splashing and no object filled with liquids such as a vase of flowers should be placed on the product.

Non-naked flame sources such as candles should be placed on the product.

Caution: Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this device.



This label tells you that the unit contains a Laser component. Opening the unit will expose the user to radiation from the laser beam.

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 or television reception, which can be determined by tuning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Re-orientate or re-locate the receiving antenna. Increase the separation between the equipment and the receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

ELECTRICAL INFORMATION

MAINS SUPPLY AND SAFETY

Mains Supply: The mains operating voltage of all QUAD 99 series units is shown on the rear panel. If this voltage does not match the mains voltage in your area, consult your QUAD dealer about converting the unit.

The mains supply fuse on the rear panel is accessible when the IEC mains plug has been removed. In the rare event that it has broken, check for any obvious cause before replacing the fuse with one of the correct rating and type. The fuse values are:

QUAD 99 Pre-amplifier

220 - 240V (UK, Korea, etc.) T 1.0AL 20mm Slow Blow

100 - 120V (USA, Japan, etc) T 2.0AL 20mm Slow Blow

QUAD CDF-2 and CD-S Compact Disc Player

220 - 240V (UK, Korea, etc.) T 315 mA 20mm Slow Blow

100 - 120V (USA, Japan, etc) T 630 mA 20mm Slow Blow

Note: An AC convenience outlet is provided on the QUAD 99 Pre. Only double insulated audio equipment may be connected to this outlet. The load must not exceed 500w. QUAD 606, 306, 405 and 303 amplifiers must not be connected to this outlet but to a grounded AC mains point.

IMPORTANT NOTICE TO UK USERS

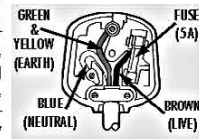
The appliance cord is terminated with a UK approved mains plug fitted with a 5A fuse. If the fuse needs to be replaced, an ASTA or BSI approved BS 1362 fuse rated at 5A must be used. If you need to change the mains plug, remove the fuse and dispose of this plug safely immediately after cutting it from the cord.

Connecting a Mains Plug

The wires in the mains lead are coloured in accordance with the code: Blue: NEUTRAL Brown: LIVE: Green and Yellow: Earth.

As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows:

The BLUE wire must be connected to the terminal marked with the letter N or coloured BLUE or BLACK. The BROWN wire must be connected to the terminal marked with the letter L or coloured BROWN or RED. The GREEN & YELLOW wire must be connected to the terminal marked with the letter E or coloured GREEN or GREEN & YELLOW or marked with the Earth Symbol ⚡



SPECIFICATIONS - 99 CD-S COMPACT DISC PLAYER

Max. Line Output Level (RCA)	2.4V RMS
Max. Output Level (Quadlink)	5.3V RMS, Balanced
Frequency Response	20 Hz -20 KHz (+0dB/-0.5dB)
Total Harmonic Distortion (THD):	<0.002% at 1kHz
Signal to Noise Ratio (S/N)	> 110dB, 24bit (20 Hz -20 KHz) > 95dB, 16Bit (20 Hz -20 KHz)
Crosstalk:	< -100dB at 1kHz
Gain Error:	< 0.5dB (@ -90dB, f=500Hz)
D/A Converter	
Maximum resolution:	24 bit
Maximum sampling freq.	96kHz
Upsampling:	x2
Disc Compatibility	CD-DA Conventional Audio CD CD-R Recordable CD
Dimensions (H x W x D):	80mm x 321mm x 310mm
Weight:	4.5kg

Care and Cleaning

The surface of the equipment may be cleaned with a damp cloth provided that the power has been switched off first. Solvent based cleaning materials should not be used as they may damage the paint finish.

Service Information

Product service enquiries should, in the first instance, be referred to the supplying dealer. If you need to return your equipment for servicing we recommend that it is shipped in its original packing.

In cases of difficulty or for other product enquiries please contact the appointed QUAD distributor for your country. Service Centres in the UK and North America can be found below.

For information on authorised service centres worldwide contact QUAD Electroacoustics Ltd. A worldwide distributor list is available on the QUAD website: www.quad-hifi.co.uk

USA
IAG America, Inc.
15 Walpole Park South
Walpole
MA 02081
Tel: +1 508 850 3950

CANADA
Korbon Trading Ltd
6800 Kitimat Road
Units 19-20
Mississauga
Ontario
Tel: +1 905 567 1920

U.K.
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QUAD

99 SERIES

USER GUIDE

99 PRE

99 FM

99 CDP-2

99 CD-S

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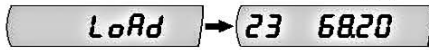
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Playing a CD

To load a CD: Press to open the drawer.

Place a CD (label side up) in the drawer. Press again to close the drawer.

Load the CD The display shows the number of tracks and the total playing time



To play a CD: Press

The disc will play from track 1.



To select a track: Select a track number. Press Play.



Play commences from Track 14.

Forward and Reverse Search, Track Skip

Press once to go to the start of the previous track. Press repeatedly to go back several tracks.

Press once to go to the start of the next track. Press repeatedly to go forward several tracks.

Press and hold to reverse search. The search stops at the start of the track.

Press and hold to search forward. At the end of the track the search stops.

Changing Tracks During Play

You can use track skip as above or select the new track from the number keypad. You do not need to press Play.



If there are 10 tracks or more on a disc, when selecting a single digit track the CD-S will wait briefly for a second digit if appropriate. If none is entered the track will start.

If you try to select a track number that is unavailable, the CD-S will briefly indicate this. If a track is currently playing it will keep on playing the track. If the disc is stopped, nothing will happen.

To Re-Start a Track During Play: Press . You may also re-enter the current track number as above.

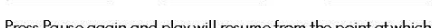


If you press 'Next' when the final track is playing:



To Pause the Disc: Press Pause. The track will be paused.

Normal Display The display alternates as below and the disc is paused



Press Pause again and play will resume from the point at which the disc was paused.

To Stop the Disc: Press Stop.

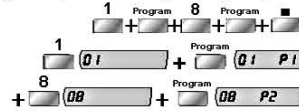
Changing Your Mind: If when the CD is at rest you choose a track but do not press Play, the disc will register the track, then revert to the original display and erase this command.



Program Play

You can customise the number and order of tracks you wish to play. This function is available when the disc is stopped.

To program a disc: Enter a track number followed by the Program key. After entering the program press Stop.



The program entered above is memorised. **02 Pro**

To play the program: Press

To erase a program from memory: Press twice.



Random and Repeat Play

To play all tracks on a disc once in random sequence:

Press Random The disc plays once randomly and stops.



To cancel Random play: Press the Random key again. The disc will play from that point in normal sequence and stop.



To repeat play an entire disc: Press the Repeat key. The disc will continuously repeat for as long as you want.



To cancel Repeat: Press Repeat again. The disc will play from that point in normal sequence and stop.



To repeat a track or several tracks: Make a program of one or more tracks. Press Repeat to repeat the program.

Random with Repeat: Press Random and then Repeat. The disc will play in a random sequence; it will then play again in a different sequence, ad infinitum - ideal for party addicts.

Display Off



To switch off the display: Press Display. In "display off" mode the Display and the Standby light are extinguished.

To restore normal operation, press the Display button again.

In 'Display Off' mode:

If you alter inputs, CD tracks or Volume Level: the CD-S will 'wake up', indicate the change, then switch the Display off.

If you select Pause, Mute, Standby, Stop or Drawer Open: the display will trigger on.

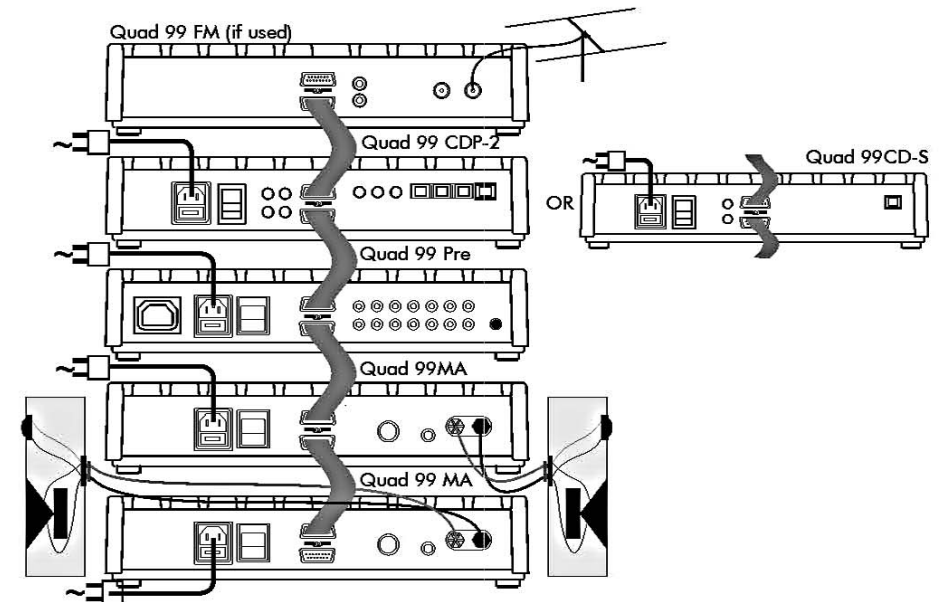
When in "display off" mode the CD-S reaches the end of a session the display will be triggered on.

After these events, the display can be manually switched off.

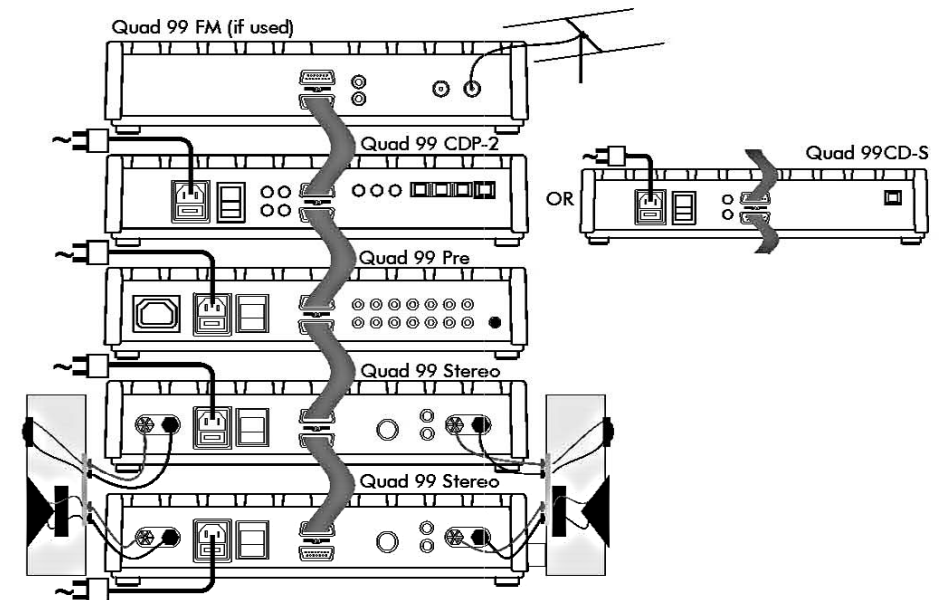
And Finally: To put the CD-S into Standby - Press



HIGH POWER SYSTEM WITH TWO QUAD 99 MA MONOBLOC AMPLIFIERS



BI-AMPLIFIED SYSTEM WITH TWO QUAD 99 STEREO POWER AMPLIFIERS



USING THE CD-S AS A STANDALONE CD PLAYER

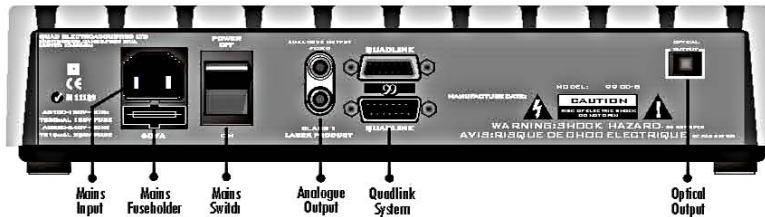
INTRODUCTION

The Quad 99 CD-S will play regular music CDs, music and standard CD-Rs. An optical output is provided to connect the CD-S to other digital equipment.

The CD-S can be used as a stand alone player with its own remote control, or fully integrated into the Quad 99 system via the QUADLINK bus.

Please read all these instructions before you install and use your CD-S. If you own a Quad 99 system please read this section in conjunction with the 99 system instructions on Pages 3-14 of this manual.

CONNECTING THE CD-S



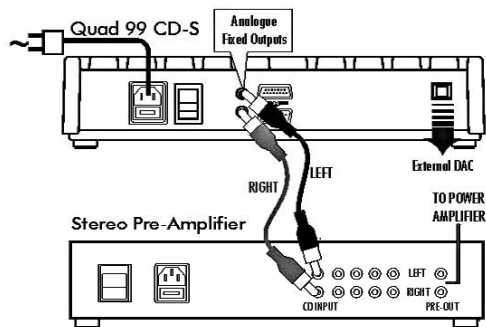
Switch off all units at the mains before connecting the CD-S.

Analogue Output (Line) Connections

To connect the CD-S to a Stereo line input: Connect the supplied RCA phono lead from the RCA line output of the CD-S to a suitable LINE INPUT of the amplifier. Ensure you connect the right and left channels correctly. RCA plugs and sockets coded white or black usually indicate the LEFT channel and those coded red the RIGHT channel.

Note: Never connect the CD-S directly to a power amplifier, unless the power amplifier has a variable volume control. System damage may occur if the CD-S output is connected directly to the fixed line inputs of a power amplifier.

QUAD 99 CD-S CONNECTIONS



Preliminaries

Unpacking: The packing should contain

- The Quad CD-S player
- One IEC mains lead, with a suitable mains plug
- One RCA stereo phono connecting cable
- One CD-S remote handset with four AA batteries
- This instruction manual and warranty card.

If any item is missing or damaged, inform your dealer.

Carefully unpack the CD-S and accessories. Do not mark the player when undoing the polythene sleeve. Retain the packing for future transportation.

THE QUAD 99 PREAMPLIFIER



MAINS SWITCH

The Mains Switch is on the rear panel. The pre-amplifier should normally be left switched on and put into standby when not in use. If you are likely to leave it unattended for long periods, switch the unit off and unplug the cord at the mains point.



BALANCE

To change the channel balance press Balance once. Adjust the balance using the Volume buttons. After a few seconds the display reverts to the volume level.

Balance Central
PH bA--
Bal. at extreme Right
PH bA-9
Bal. at extreme Left
PH bA9-

BASIC FRONT PANEL OPERATION

Basic operation may be carried out from the Front Panel. Advanced functions are available via the system handset.



STANDBY

Pressing the Standby button switches the unit (and all connected 99 products) in and out of standby. The Standby button glows green when the unit is active and red when it is in the standby mode.



SELECTING A SOURCE

Repeatedly press the Source button to scroll through all inputs in the sequence below.

INPUT	DISPLAY
Aux 1	A1
Aux 2	A2
Aux 3	A3
CD	Cd
Phono	PH
Tuner	tU



TAPE MONITOR

Press Tape to listen to a tape recording. Press Tape again to deselect the Tape function.

When Tape is selected the Monitor light comes on with the display. After a few seconds the display reverts to show the source input but the Monitor light stays on. When Tape is deselected this light goes off.

Only when the Tape Monitor light is off will you be able to listen to other sources e.g. CD.

To record a source:



Select the source

During recording:

Standard Recorder: (CD recorder, minidisc, 2 head tape recorder, etc). The tape monitor light should be off.

Three Head Tape Deck:

Monitor light off - listen to the source.
Monitor light on - listen to the tape recording.
Consult your recorder handbook for full details.



PHONO INPUT

Press the Phono button to select the turntable (record player) input. There are settings for Moving Coil and Moving Magnet cartridges. When initially pressed the button displays either PH (moving coil) or PL (moving magnet). To change the setting hold down the Phono button for 5 seconds.



VOLUME

The Volume buttons increase and decrease the volume level. Maximum volume is reached when the display reads "32". If the sound appears distorted at any time, reduce the setting.

Choosing an Input: Source inputs can be selected by pressing the required button on the Keypad.

Closing the disc drawer always selects CD.

To Select a Digital or Optical Input:

Press an input on the keypad, say DIG 1.



The display confirms the input and the sampling frequency and then displays the volume

Digit **d1 44.1** → **d1 L20**

If the selected source is disconnected or not switched on:

The display indicates Input & Level, flashes "No Signal" twice, and reverts back

d1 L20 → **No** → **S1 90AL**

When you select a digital input, the CDP-2 will look for a digital stream to lock onto. If, after the input is selected you switch the digital source off this lock will be defeated. To confirm whether a digital signal is present, reselect the input.

Playing a CD

Select CD from the Input Keypad.

To load a CD: Press to open the drawer.

Place a CD in the drawer. Press again to close it

The CDP-2 determines the format and loads the disc information → The display then shows the number of tracks and the total playing time

LoAd → **23 6820**

To play a CD: Press

The disc will play from track 1.

01 001

To select a track: Select a track number. Press Play.

→ **14 001**

Play commences from Track 14.

Forward and Reverse Search, Track Skip

Press once to go to the start of the previous track. Press repeatedly to go back several tracks.

Press once to go to the start of the next track. Press repeatedly to go forward several tracks.

Press and hold to reverse search. The search stops at the start of the track.

Press and hold to search forward. At the end of the track the search stops.

Changing Tracks During Play

You can use track skip as above or select the new track from the number keypad. You do not need to press Play.

→ **18 001**

If there are 10 tracks or more on a disc, the CDP-2 will wait briefly for a second digit. If none is entered the track will play.

If you select a track number that is unavailable, the CDP-2 will briefly indicate. If a track is currently playing it will keep playing the track. If the disc is stopped, nothing will happen.

To Re-Start a Track During Play: Press Play . You may also re-enter the current track number as above.

18 021 OR → **18 001**

If you press 'Next' when the final track is playing:

23 020 → **23 LAST** → **23 023**

To Pause the Disc: Press Pause. The track will be paused. Press Pause again and play will resume from the point at which the disc was paused.

Normal Display The display alternates as below and the disc is paused

03 820 → **03 820** → **03 ----**

To Stop the Disc: Press Stop.

Changing Your Mind: If when the CD is at rest you choose a track but do not press Play, the disc will register the track, then revert to the original display and erase this command.

23 6820 → **14** → **23 6820**

Altering the Volume: (not available at fixed Outputs)

Increase volume Decrease volume

The Display registers the new level → And will then revert to normal display

CD L26 → **03 0820**

The level indication varies between 32 (max.) and 00 (off).

Default Volume Level: The default level is 16. If, the CDP-2 is set to Standby with the Volume level set higher, when you come out of Standby the level will reset to 16. If the CDP-2 is set to Standby with the level set below 16, it will next come back on at the lower level.

Program Play

You can customise the number and order of tracks you wish to play. This function is available when the disc is stopped.

To program a disc: Enter a track number followed by the Program key. After entering the program press Stop.

→ **02 Pro**

The program entered above is memorised.

To play the program: Press

To erase a program from memory: Press twice.

02 Pro + + → **23 6820**

Random and Repeat Play

To play all tracks on a disc once in random sequence:

Press Random. The disc will play once randomly and stop.

rnd → **08 001** ... **23 6820**

To cancel Random play: Press the Random key again.

The disc plays from that point in normal sequence and stops.

18 023 → **rnd** → **18 025** ...

To repeat play an entire disc: Press the Repeat key. The disc will continuously repeat for as long as you want.

18 023 → **rEP** → **18 025** ...

To cancel Repeat: Press Repeat again.

19 023 → **rEP** → **19 025** ...

The disc plays from that point in normal sequence and stops.

PLAY: QUAD 99 CDP-2, 99CD-S only
Play a CD

STOP: QUAD 99 CDP-2, 99CD-S only
Stop a CD while playing

PAUSE: QUAD 99 CDP-2, 99CD-S only
Pause a CD while it is playing

OPEN/CLOSE: QUAD 99 CDP-2, 99CD-S only
Open and close the CD drawer

NUMBER KEYPAD:
Choose a track - QUAD 99 CDP-2, 99CD-S only
Choose a preset station - QUAD 99 FM

STORE:
Store a track or program - 99 CDP-2, 99CD-S
Store a station - QUAD 99 FM

REPEAT:
Repeat a CD from the start - 99 CDP-2, 99CD-S

NEXT:
Move up to the next track - 99 CDP-2, 99CD-S
Move up to the next preset - QUAD 99 FM

PREVIOUS:
Move to the previous track - 99 CDP-2, 99CD-S
Move to the previous preset - QUAD 99 FM

TILT:
Use this to adjust tonal balance - 99 Pre

STEREO/MONO:
Force mono reception on and off - QUAD 99 FM

SEARCH UP:
Fast forward through tracks - 99 CDP-2, 99CD-S
Search and tune a station - QUAD 99 FM

SEARCH DOWN:
Fast reverse through tracks - 99 CDP-2, 99CD-S
Search and tune a station - QUAD 99 FM

FILTER:
Toggle treble cut on/off

CABLE/ANTENNA: - QUAD 99 FM only
Select standard or cable aerial input

TUNE UP:
Scroll through digital inputs - 99 CDP-2
Manually tune a station - QUAD 99 FM

TUNE DOWN:
Scroll through digital inputs - 99 CDP-2
Manually tune a station - QUAD 99 FM

SENSITIVITY:
Adjust Line and Phono sensitivity - QUAD 99 Pre

EQUALISATION:
Enable/disable tone controls - QUAD 99 Pre
EQ must be enabled for tone controls to operate.

ADVANCED HANDSET OPERATION

The basic functions of the QUAD 99 Pre (Volume, Input selection, and tape monitor) have been described in previous sections. This section deals with advanced settings and operation.

ALTERING THE PHONO SENSITIVITY

To minimise noise and distortion, a phono cartridge needs to be matched to the pre-amplifier input. There are three sensitivity levels. To alter the sensitivity, press Phono and then press the Sens button repeatedly to cycle between them. The settings and displays are shown below.

MC Input 775mV	MC Input 300mV	MC Input 100mV
PH 175	PH 300	PH 100
MM Input 7.75mV	MM Input 3.00mV	MM Input 1.00mV
PL 175	PL 300	PL 100

ALTERING THE LINE LEVEL INPUTS

Source units can differ widely in output levels. This may cause large volume swings when switching between sources. To help minimise these swings the input sensitivity of Aux 1, Aux 2, Aux 3 and Tape can be altered.

Three sensitivity levels are available. To alter the sensitivity of the Aux inputs, press the required input and press the Sens button repeatedly to cycle between them.

Aux 1 Input 775mV	Aux 2 Input 300mV	Aux 3 Input 100mV
R1 175	R2 300	R3 100

ALTERING THE TAPE SENSITIVITY
Three sensitivity levels are available. To alter the sensitivity of the Tape input, press Tape and press the Sens button repeatedly to cycle between the settings which are the same as the line level inputs.

USING THE CDP-2 AS A STANDALONE CD PLAYER

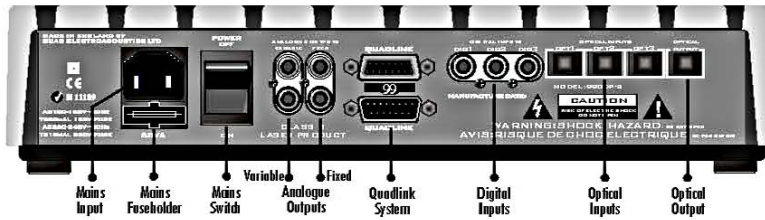
INTRODUCTION

The Quad 99 CDP-2 will play regular music CDs, music and standard CD-Rs. Automatic upsampling increases the detail levels in your CD collection, and the ability to add three digital and three optical sources enables you to get the best from other digital media. An optical output is provided to connect the CDP-2 to other digital equipment.

The CDP-2 can be used as a stand alone player with its own remote control, as a CD/pre-amplifier in a basic system, or integrated into the Quad 99 system via the QUADLINK bus.

Please read all these instructions before you install and use your CDP-2. If you own a Quad 99 system please read this section in conjunction with the 99 system instructions on Pages 3-14 of this manual.

CONNECTING THE CDP-2



Switch off all units at the mains before connecting the CDP-2.

Analogue Output (Line) Connections

Please refer to the connection drawings on Page 19

Fixed Output: Use this output when connecting to an amplifier that has a volume control. Connected in this manner, the internal volume control of the CDP-2 is bypassed, and the analogue audio output is unaffected by volume setting changes on the CDP-2 remote control handset.

Variable Output: Use this output to connect the CDP-2 directly to a stereo power amplifier. Connected in this manner, the internal volume control of the CDP-2 becomes active, allowing the user to vary the level of the analogue audio output. This internal volume control is an extremely high quality audiophile component.

Note: When connecting the CDP-2 directly to a power amplifier, never use the 'Fixed' output. System damage may occur if the 'Fixed' output is connected directly to a power amplifier.

To connect the CDP-2 to a Stereo Line input: Connect the supplied RCA phono lead from the chosen output of the CDP-2 to a suitable LINE INPUT of the amplifier. Ensure you connect the right and left channels correctly. RCA plugs and sockets coded white or black usually indicate the LEFT channel and those coded red the RIGHT channel.

'Quadlink' Output: Use this output when connecting to a Quad 99 Series pre-amplifier. Please refer to the Quad 99 Series system handbook for full instructions.

Important note: When connecting the CDP-2 directly to a Quad 99 Series power amplifier, you **must** connect the 'Variable' output to the RCA input of the power amplifier.

PRELIMINARIES

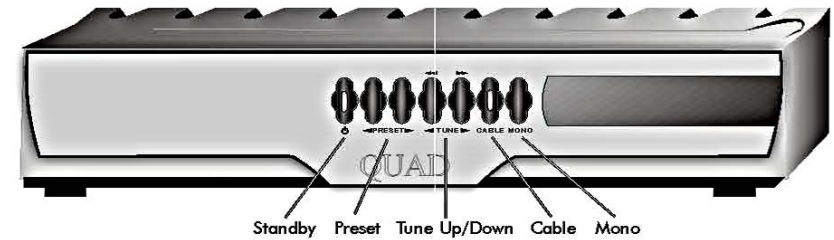
Unpacking: The packing should contain

- The Quad CDP-2 player
- One IEC mains lead, with a suitable mains plug
- One RCA stereo phono connecting cable
- One CDP-2 remote handset with four AA batteries
- This instruction manual and warranty card.

If any item is missing or damaged, inform your dealer.

Carefully unpack the CDP-2 and accessories. Do not mark the player when undoing the polythene sleeve. Retain the packing for future transportation.

THE QUAD 99 FM TUNER



Connecting an Aerial

There are two 75Ω co-axial sockets on the rear panel for aerial or cable signals.

There are two types of Aerials in current use.

Regular Aerials: The performance of your aerial is the performance of your tuner. Ideally you should use a professionally installed multi-element FM aerial mounted on the roof, or in the loft. If you are close to a transmitter, you may be able to use an indoor aerial, but reception may be noisy and distorted, particularly in stereo.

Cable: This is typically a boosted FM signal provided by cable or satellite operators. The Cable input sensitivity is specially tailored to accept these boosted signal levels.

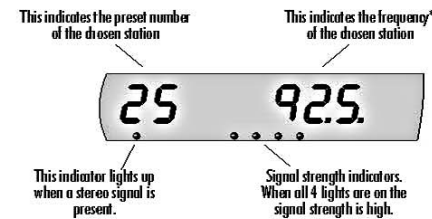
If you plug a normal aerial into the cable input, you will lose much of your signal strength. Plugging a cable feed into the FM 99 aerial input may cause input overload and distortion.

Line Output Connections

There is a line level phono output available for direct connection to the input of a DAT, CD or tape recorder.

FRONT PANEL OPERATION

Tuning and Signal Displays



*Frequencies are displayed in MHz. As the 99 FM scans in 50kHz steps, the final dot indicates that the frequency is 50kHz above that displayed: (i.e. 92.55 MHz is shown as 92.5).

STANDBY
Press the Standby button to bring the 99 system into and out of Standby. The Standby light is green when operational and red in Standby.

SELECTING AN AERIAL
Press the Cable button on the front panel to toggle between the Standard input and the Cable input. When the Cable button is illuminated, the Cable input is selected.

MANUAL TUNING
Press to tune manually in decreasing frequencies. Press to tune manually in increasing frequencies.

Repeatedly press a button as indicated to advance the tuning in 50kHz steps. If you keep the button pressed the scan will speed up. Release the button to stop the scan.

AUTO TUNING
Press to tune automatically in decreasing frequencies. Press to tune automatically in increasing frequencies.

Press the button as indicated and the tuner will scan until a station is detected. Press the button to repeat the process. To stop the auto scan press the lower part of the left-hand tune button once.















Note: Very weak stations may have to be tuned manually.







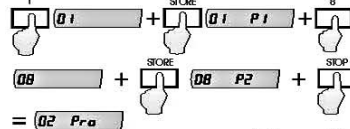
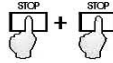


FORCED MONO OPERATION
Press the MONO button. The stereo indicator will extinguish. The indicator on the MONO button will now light. **Note:** If the station is broadcasting mono, operating the MONO button will have no effect.

STORING A STATION IN A PRESET
Repeatedly press a preset button to select the number. Tune in the station. Hold down one preset button. The display flashes dashes alternating with the frequency. The display then changes to: Release the Button. The Preset is now stored.

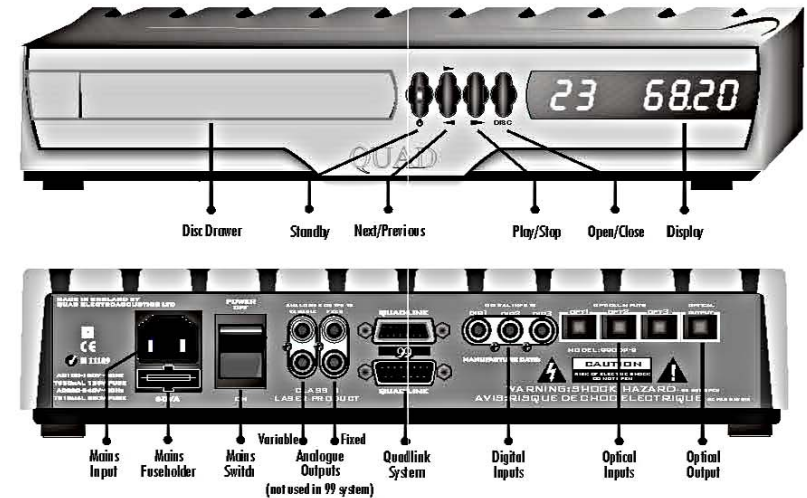
To play a preset station: Repeatedly press a Preset button until you reach the desired number.
To re-allocate a preset: Repeatedly press a Preset button until you reach the desired number. Tune and store the new station using the procedure described above.

HANDSET OPERATION OF THE CD 99-S

- STANDBY**
 **STANDBY**
 Press STANDBY to activate all Quad 99 units. The display shows the system as it was when last used.
- LOADING A CD**
 **LOADING A CD**
 Select CD.
 Open the drawer. Place a CD (label side up) in the drawer. Close the drawer.
 The display determines and displays track and time information

- PLAYING A CD**
 **PLAYING A CD**
 Press PLAY. Play will commence from track 1

- SELECTING A TRACK**
 **SELECTING A TRACK**
 Select a track number. Press Play

- SKIPPING A TRACK**
 **SKIPPING A TRACK**
 Press once to go to the start of the next track. Press repeatedly to go forward several tracks.
- PREVIOUS**
 **PREVIOUS**
 Press once to go to the start of the previous track. Press repeatedly to go back several tracks.
- Next**
 **If you press NEXT during the final track:**

- FORWARD AND REVERSE SEARCH**
 **FORWARD AND REVERSE SEARCH**
 Press and hold to search forward. At the end of the track the search stops.
- SEARCH DOWN**
 **SEARCH DOWN**
 Press and hold to reverse search. The search stops at the start of the track.
- CHANGING TRACKS DURING PLAY**
 **CHANGING TRACKS DURING PLAY**
 Select the new track from the number keypad. You do not need to press PLAY.
 If there are 10 tracks or more on a disc, when selecting a single digit track the CD-S will wait briefly for a second digit if appropriate. If none is entered the track will start.
 If you try to select a track number that is unavailable, the CD-S will briefly indicate this. If a track is currently playing it will keep on playing the track. If the disc is stopped, nothing will happen.

- PLAY**
 **RE-STARTING A TRACK DURING PLAY**
 Press PLAY.

- PAUSE**
 **PAUSE**
 Press PAUSE. The track will pause

 Press PAUSE again to resume play.
- STOP**
 **STOPPING THE DISC**
 Press STOP
- STORE**
 **PROGRAMMING A DISC**
 You can customise the number and the play order of tracks in a program this function is only available when the disc is stopped.
EXAMPLE: Storing a 2 track Program

To Erase a program:
 Press STOP twice

TO REPEAT PLAY A DISC
 Press REPEAT.

To Cancel Repeat: Press REPEAT again.

 The disc will play from that point and stop.
To repeat a track or tracks: Make a program of one or more tracks as described above. Press REPEAT to repeat the program.

USING THE CDP-2 COMPACT DISC PLAYER IN A 99 SYSTEM













DIGITAL CONNECTIONS


- The CDP-2 accepts three optical and three digital inputs. Minidisc and DAT players, or Digital Audio Broadcast tuners (DAB) will be significantly improved by connecting their digital outputs to the CDP-2. The CDP-2 can accept incoming PCM digital signals to a maximum resolution of 24 bit/96kHz.
- The stereo output of DVD players can be enjoyed at higher levels of fidelity by connecting the digital or optical output of the DVD player to the relevant input of the CDP-2. In the DVD player's menu, the digital output option should be set to 'PCM'.
- Digital Inputs:** These are via single 75 ohm RCA phono leads connected between source and the CDP-2. Your dealer will be able to supply you with a suitable digital RCA phono cable.
- Optical Input:** The optical inputs are blanked off when not in use. Remove the blanking plug from the chosen input of the CDP-2 and the source component and connect an optical Toslink cable between them. Retain the plugs for future use.
- Optical Output:** This is a Toslink output for connection to a unit having an onboard Digital to Analogue Converter (DAC)

OPERATION


- The CDP-2 may be operated from the front panel or the remote handset. The front panel controls allow basic operation; handset operation is required for the advanced features.
- The CDP-2 is supplied with a dedicated handset. Virtually all the functions of this handset are available with the 99 system handset with the exception of Random play and Display Off. We suggest you use the 99 system handset unless these functions are essential for your listening pleasure.
- When you load a CD the player has to determine the format before it can display track/time information. This takes 2 to 3 seconds during which the mechanism will whirr. This noise will also occur when you open and close the drawer without inserting a CD, and is normal.*



- MAINS SWITCH**
 **MAINS SWITCH**
 The Mains Switch is on the rear panel. The unit should normally be left in standby when not in use. If you are likely to leave the system unattended for long periods, switch off and unplug the cord.
- FRONT PANEL OPERATION**
STANDBY
 **STANDBY**
 Depress the Standby button to bring all 99 system units into and out of Standby.
 **The Display briefly shows the default input (CD)**
- LOADING A CD**
 **LOADING A CD**
 Press the DISC button. The disc drawer will open. Load a disc label side up into the tray. Press DISC again to close the drawer.

- PLAYING A CD**
 **PLAYING A CD**
 Press Play. Play will commence from track 1.

- SELECTING A TRACK**
 **SELECTING A TRACK**
To go forward: Press the upper part of the Next/Previous key. The player will go to the start of the next track.
 **To go back:** Press the lower part of the Next/Previous key once. The CD will go to the start of the previous track.
- STOPPING A CD WHILE PLAYING**
 **STOPPING A CD WHILE PLAYING**
 Press PLAY. The disc will stop


HANDSET OPERATION OF THE 99 CDP-2

STANDBY
 **STANDBY**
 Press STANDBY to activate all Quad 99 units. The display shows the system as it was when last used.


CD
 **CHOOSING AN INPUT**
 Press CD. Pressing CD will always select the CD and deselect all digital sources.


TUNE UP
 **To choose a Digital or Optical input:**
 Press the CD button.
 Press the TUNE UP or TUNE DOWN buttons.
 This will cycle the digital inputs in the order: Dig 1, Dig 2, Dig 3, Opt 1, Opt 2, Opt 3.

TUNE DOWN
 **Digital Indications:** Suppose Dig 1 is selected:
The input and the sampling frequency is briefly displayed


If the source is disconnected or switched off:
The display flashes 'No Signal' twice, and reverts



When you select a digital input, the CDP-2 will look for a digital stream to lock onto. If, after the input is selected you switch the digital source off this lock will be defeated. If you wish to confirm whether a digital signal is present, reselect the input.


CD
 **LOADING A CD**
 Select CD.



Open the drawer. Place a CD (label side up) in the drawer. Close the drawer.
The display determines and displays track and time information


PLAY
 **PLAYING A CD**
 Press PLAY. Play will commence from track 1



2
 **SELECTING A TRACK**
 Select a track number. Press Play



NEXT
 **SKIPPING A TRACK**
 Press once to go to the start of the next track. Press repeatedly to go forward several tracks.

PREVIOUS
 Press once to go to the start of the previous track. Press repeatedly to go back several tracks.



NEXT
 **If you press NEXT during the final track:**


SEARCH UP
 **FORWARD AND REVERSE SEARCH**
 Press and hold to search forward. At the end of the track the search stops.


SEARCH DOWN
 Press and hold to reverse search. The search stops at the start of the track.

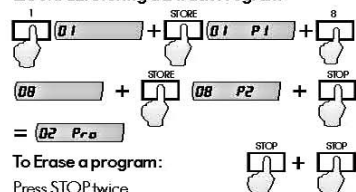
2
 **CHANGING TRACKS DURING PLAY**
Select the new track from the number keypad. You do not need to press PLAY.
 If there are 10 tracks or more on a disc, when selecting a single digit track the CDP-2 will wait briefly for a second digit if appropriate. If none is entered the track will start.
 If you try to select a track number that is unavailable, the CDP-2 briefly indicates this. If a track is currently playing it will keep on playing the track. If the disc is stopped, nothing will happen.

PLAY
 **RE-STARTING A TRACK DURING PLAY**
 Press PLAY



PAUSE
 **PAUSE**
 Press PAUSE. The track will pause

 Press PAUSE again to resume play.

STOP
 **STOPPING THE DISC**
 Press STOP

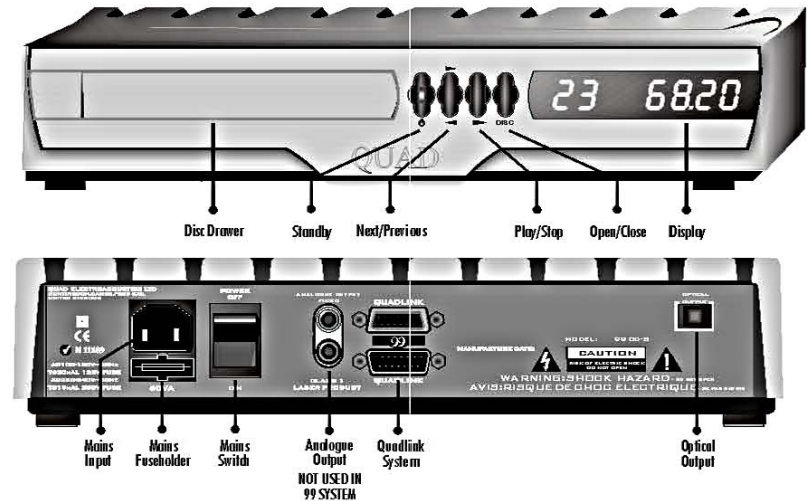
STORE
 **PROGRAMMING A DISC**
 You can customise the number and the play order of tracks in a program. This function is only available when the disc is stopped.

EXAMPLE: Storing a 2 track Program

To Erase a program:
 Press STOP twice

REPEAT
 **TO REPEAT PLAY A DISC**
 Press REPEAT.


To Cancel Repeat: Press REPEAT again.

 The disc will play from that point and stop.
To repeat a track or tracks: Make a program of one or more tracks as described above. Press REPEAT to repeat the program.


USING THE CD-S COMPACT DISC PLAYER IN A 99 SYSTEM




OPERATION

The CD-S may be operated from the front panel or the remote handset. The front panel controls allow basic operation; handset operation is required for the advanced features.

The CD-S is supplied with a dedicated handset. Virtually all the functions of this handset are available with the 99 system handset with the exception of Random play and Display Off. We suggest you use the 99 system handset unless these functions are essential for your listening pleasure.

MAINS SWITCH
 The Mains Switch is on the rear panel. The unit should normally be left in Standby when not in use. If you are likely to leave the system unattended for long periods, switch off and unplug the cord.

FRONT PANEL OPERATION

STANDBY
 Depress the Standby button to bring all 99 system units into and out of Standby.


DISPLAY INDICATION


 No. of tracks Duration of CD


LOADING A CD
 Press the DISC button. The disc drawer will open. Load a disc label side up into the tray. Press DISC again to close the drawer.




PLAYING A CD
 Press Play.
 Play commences from track 1. 

SELECTING A TRACK
 **To go forward:** Press the upper part of the Next/Previous key. The player will go to the start of the next track.


 **To go back:** Press the lower part of the Next/Previous key once. The CD will go to the start of the previous track.


STOPPING A CD WHILE PLAYING
 Press PLAY. The disc will stop


HANDSET OPERATION OF THE 99 FM


STANDBY
 **STANDBY**
 Press Standby to activate all Quad 99 units. The display shows the system as it was when last used.


TUNER
 **TUNER**
 Press Tuner to select the 99 FM.


CABLE/ANT
 **SELECTING AN AERIAL**
 Press the CABLE/ANT button to toggle between Cable and Aerial inputs.


TUNE UP
 **MANUAL TUNING**
 Repeatedly press a button to advance the tuning in 50kHz steps.

TUNE DOWN
 **MANUAL TUNING**
 Keep the button pressed to speed up the scan. Release the button to stop the scan.

SEARCH UP
 **AUTO TUNING**
 Press the key once to start the search in the desired direction.


SEARCH DOWN
 **AUTO TUNING**
 When the tuner detects a station it will stop. Press a key to resume the search if needed.

2
 **SELECTING A PRESET USING NUMBER KEYS**
 Enter a required number (from 1 - 25)
 If you start by pressing '1' or '2' the display will briefly wait for you to press another number before selecting the station.

NEXT
 **SELECTING A PRESET WITH NEXT/PREVIOUS**
 Press NEXT to choose the next number up

PREVIOUS
 **SELECTING A PRESET WITH NEXT/PREVIOUS**
 Press PREVIOUS to choose the next number down.

2
 **STORING A STATION IN A PRESET**
 Choose a preset

+
 **STORING A STATION IN A PRESET**
 Tune in the desired station.

TUNE UP
 **STORING A STATION IN A PRESET**
 Tune in the desired station.

TUNE DOWN
 **STORING A STATION IN A PRESET**
 Tune in the desired station.

STORE
 **STORING A STATION IN A PRESET**
 Press STORE to store the preset.

TROUBLESHOOTING

If you suspect that one or more of your QUAD 99 system components may be malfunctioning, here are a few simple checks you could carry out before you return the suspect unit to your dealer.

Caution: Before carrying out any checks or adjustments to your QUAD 99 system, ensure that the mains to all the system units is safely disconnected and that the volume level is set to minimum.

PROBLEMS COMMON TO THE SYSTEM	
No front panel lights on the pre-amplifier	Mains plugs not inserted/ mains not on Mains fuse broken at power supply point Mains fuse on rear panel has broken
No signal from the loudspeakers	Mains supply connections to power amp disconnected or faulty No connection or poor connection between pre and power amp Check Quadlink and AmpBus cables Loudspeaker cables disconnected Source input not connected to pre-amplifier or faulty Source is switched off Tape monitor is inadvertently on The CD you were playing has finished Is the pre-amplifier in mute? If you are using a CDP-2 have you set that to mute?
PRE-AMPLIFIER PROBLEMS	
Tone controls do not function	EQ not selected
Turntable input too high/low	Check MM and MC input is correctly set, adjust sensitivity
Aux/Tape input too high/low	Adjust sensitivity
Controls do not function at all	Switch system off at the mains, leave 15 mins, switch on
TUNER PROBLEMS	
No front panel lights	Is the pre-amplifier switched on and working? Quadlink cable not properly connected
The tuner will not tune in SEARCH mode	Cable/antenna switch incorrectly set No aerial or inadequate aerial (Check that you can tune manually)
All stations have high background noise	Inadequate or faulty aerial, aerial improperly connected
Mono reception OK, stereo distorted or noisy	Inadequate or misaligned aerial, station is too far away Nearby electronic apparatus causing interference
No stereo indicator	Is the station broadcasting mono (can you receive other stations OK)
CD PROBLEMS	
No front panel lights	Mains plugs not inserted, mains off, fuse/s blown, display switched off
No sound	Quadlink connection not properly connected or missing
Disc won't load	Disc upside down, or incorrect format Disc damaged or dirty
Disc skips or distorts	Disc damaged or dirty
No sound from digital source	Source disconnected or switched off (check NO SIGNAL indicator)
I can't select Random Play	Use the supplied CD handset

TONE CONTROLS

For a detailed explanation of the tone controls see the end of this section

EQ (EQUALISATION)

Equalisation must be set to ON for the functions described below to work. When EQ is off the tone controls are bypassed and the pre-amplifier response is set "Flat".



TILT
Press to cycle through the seven different settings. The displays are shown below.



BASS: There is one setting of boost and one of cut.
Press the upper button to boost the bass. **BOOST** (Cd bS --)
Press the lower button to cut the bass. **CUT** (Cd bS --)

FILTER:
Press Filter to toggle the treble cut filter on and off. **FL ON** (Cd FL on) **FL OFF** (Cd FL --)

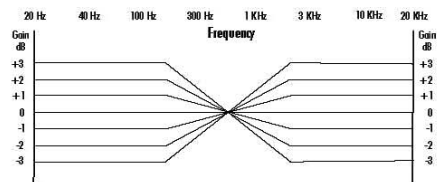
APPENDIX 1

WHAT THE TONE CONTROLS DO.

QUAD tone controls are designed to overcome problems of tonal balance without adding distortion. The tone controls should be operated via the handset but they can be operated from the front panel as shown in Appendix 2. The tone controls are only active when the Equalisation function is enabled.

Tilt

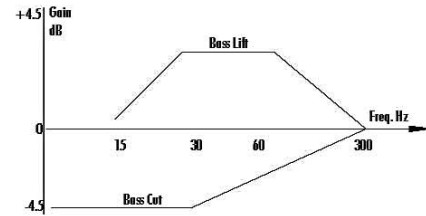
Tilt shapes the frequency response about a central point. There are six settings and flat. Tilt allows you to add warmth or life to a recording. The graph shows the shape of the different settings:



Bass Contour

The Bass control has one position of lift and one of cut. This can be used to rectify deficiencies in a recording or to compensate for poor room acoustics, e.g. where speakers are placed too close to a corner, etc.

Bass Contour



Treble Filter

The Treble Filter gently rolls off frequencies above 7 KHz. It will help to reduce the effects of excessively bright recordings, and hiss and scratches on older (particularly vinyl) records.

APPENDIX 2

FRONT PANEL OPERATION OF THE TONE CONTROLS

Setting the Equalisation

Press Balance five times until "EQ" is displayed and then press either Volume button to toggle the EQ on or off. **EQ ON** (Cd EQ on) **EQ OFF** (Cd EQ --)

If the EQ function is off the tone controls cannot be adjusted.

Operating the Tilt Control

Ensure EQ is enabled (Cd EQ on)
Press Bal twice (Cd tL 0)
Press to slope Tilt up (Cd tL 3)
Press to slope Tilt down (Cd tL 3)

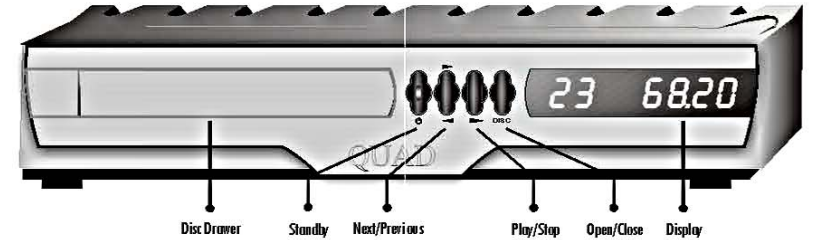
Adjusting the Bass

Ensure EQ is enabled (Cd EQ on)
Press Bal three times (Cd bS --)
Press to select Bass Boost (Cd bS nn)
Press to select Bass Cut (Cd bS uu)

Operating the Treble Filter

Ensure EQ is enabled (Cd EQ on)
Press Bal four times (Cd FL --)
Press to toggle the Filter on and off (Cd FL on) (Cd FL --)

OPERATION



Switching On

Switch on the power at the mains and at the power switch at the rear of the player. The STANDBY light on the Standby button glows Red.

The CDP-2 may be operated from either the front panel or via the remote handset. The front panel controls allow basic operation; handset operation is required to realise all the advanced operating features of the CDP-2.

Front Panel Operation

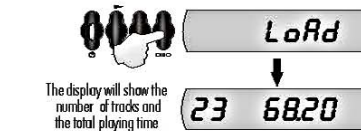
Depress the Standby button. The Standby light will go to Green.



When switched on from Standby the CDP-2 will power on at a safe volume level. This default level is only available at the variable output and is a safety feature of the equipment.

Loading and Playing a CD

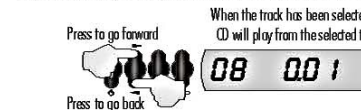
Press the DISC button. The disc drawer will open. Load a disc label side up into the tray. Press DISC again to close the drawer.



To play a CD: Press Play. Playing will commence from track 1.



To choose and play a given track: Press the Next/Previous key repeatedly to advance or reverse the track one unit.



To go forward: Press the upper part of the Next/Previous key to select and play a track. Each press advances the CD one track.

*Note: Volume indications on the display panel apply only to the variable output - the fixed output is unaffected.

To go back: Press the lower part of the Next/Previous key once. The CD will go to the start of the previous track. Press the key again to go back one track at a time.

To stop a CD while playing: Press Play. The disc will stop.



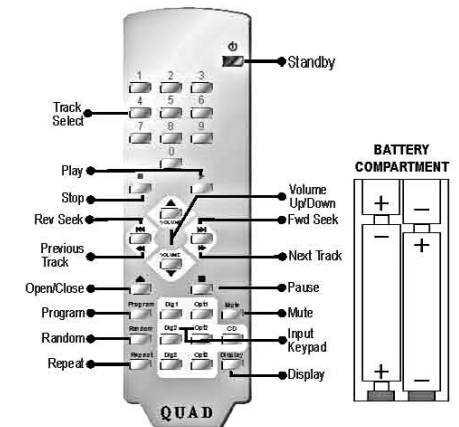
To revert to Standby: Press Standby.

The Red Standby light will come on.

Note: When you load a CD, the player has to determine which of the many formats the disc may be in before it can display the track and time information. This takes a couple of seconds during which the mechanism will whirr audibly - this is quite normal.

The CDP-2 Remote Control Handset

The CDP-2 handset replicates all the CDP-2 control panel features plus several additional features that add functionality to its performance, including Input Selection.



Inserting the Batteries: Carefully remove the cover on the rear of the handset. Unwrap the four supplied AAA batteries and insert them in the positions shown. Replace the cover.

Operating the CDP-2 with the Remote Handset

Switching On: Press the Standby Button

The Standby Light will change to Green.

99 REMOTE CONTROL HANDSET

Introduction

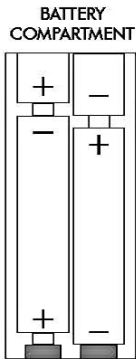
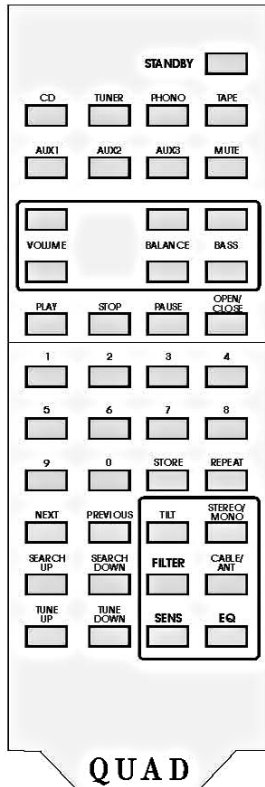
Most of the controls available on the front panel are also available on the 99 System Handset. However some features of the Quad 99 system are available only from the handset. Generally it will be found more convenient to operate the Quad 99 system from the System Handset

Fitting and Replacing Batteries

To fit the batteries, open the compartment cover on the rear of the handset. Fit the supplied AAA batteries in the correct alignment as printed in the battery compartment.

When the operation of the handset becomes uncertain or when it becomes necessary to hold the handset close to the 99 Series Pre-Amplifier, the batteries may need replacement. Always replace batteries with the correct size and type. Old batteries should be safely disposed of.

HANDSET KEYPAD



99 SYSTEM HANDSET FUNCTIONS

- STANDBY:** Press to activate all 99 units. The display shows the system as it was when last used.
PH 20
- CD:** Selects only the QUAD 99 CDP-2, or CD-S
[Cd] 20
- TUNER:** Selects only the QUAD 99FM
[TU] 20
- PHONO:** Selects the turntable
PH 20 or **PL 20**
- TAPE:** Toggles the Tape Monitor on and off
[TP] on ↔ **[TP] off**
- AUX1:** Select Aux 1
[A1] 20
- AUX2:** Select Aux 2
[A2] 20
- AUX3:** Select Aux 3
[A3] 20
- MUTE:** Press to set system volume to 0. Press to restore. When Mute is on the display flashes:
[Cd] --- ↔ **[Cd] >20 <**
- VOLUME:**
 Press the upper Volume button to increase the volume.
 Press the lower volume button to decrease the volume.
- BALANCE:**
 Press the upper balance button to adjust the Balance to the Right
 Press the lower balance button to adjust the Balance to the Left.
- BASS:** There is one setting of boost and one of cut.
 Press the upper button to boost the bass. **BOOST [Cd] b5r**
 Press the lower button to cut the bass. **LEVEL [Cd] b5--**
CUT [Cd] b5<
- Note:** Before the Bass or any tone control is operated, the EQ function must first be enabled.
 See **EQ**

To repeat a track or several tracks: Make a program of one or more tracks as described above. Press Repeat to repeat the program.

Random with Repeat: Press Random and then Repeat. The disc will play in a random sequence; it will then play again in a different sequence, ad infinitum - ideal for party addicts.

Mute

Pressing Mute cuts off the sound but leaves other functions unaltered. Press Mute again to resume normal operation.

The last set Volume level flashes when Mute is selected.

Display Off

Many listeners prefer to listen with the display switched off.

To switch off the display: Press Display.

In "display off" mode the Display and the Standby light are muted.

To restore normal operation: Press the Display button again.

Because of the potential difficulties that could arise with a player with no visible indicators Quad engineers have put in some special features.

In "display off" mode you can alter inputs, CD tracks and Volume Level. Each time you perform one of these functions, the CDP-2 will briefly "wake up", indicate the change and then switch the Display off again.

If in "display off" mode, you select Pause, Mute, Standby, Stop or Drawer Open, the display will trigger on.

When in "display off" mode the CDP-2 reaches the end of a session, whether in Normal, Random, or Program mode, the display will be triggered on.

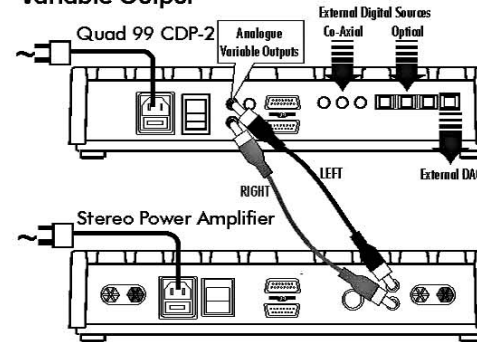
After these events, the display can be manually switched off.

And Finally: To put the CDP-2 into Standby - Press

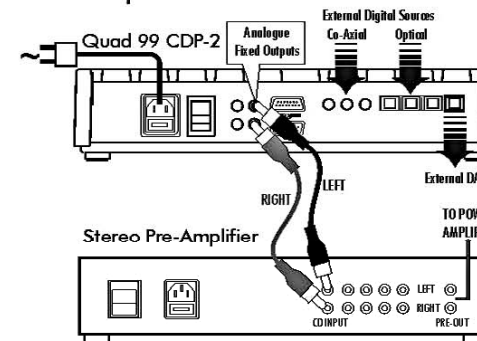


QUAD 99 CDP-2 CONNECTIONS

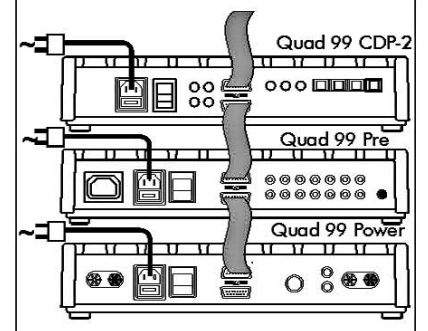
Variable Output



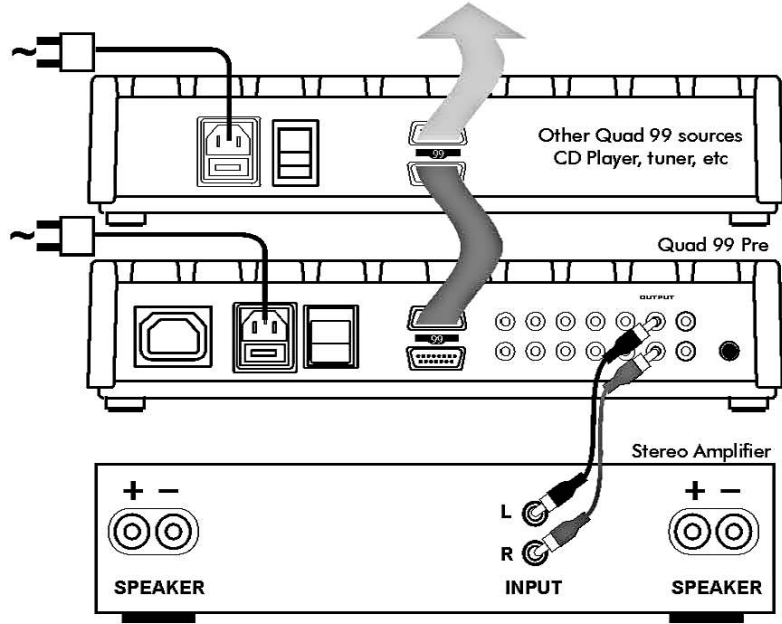
Fixed Output



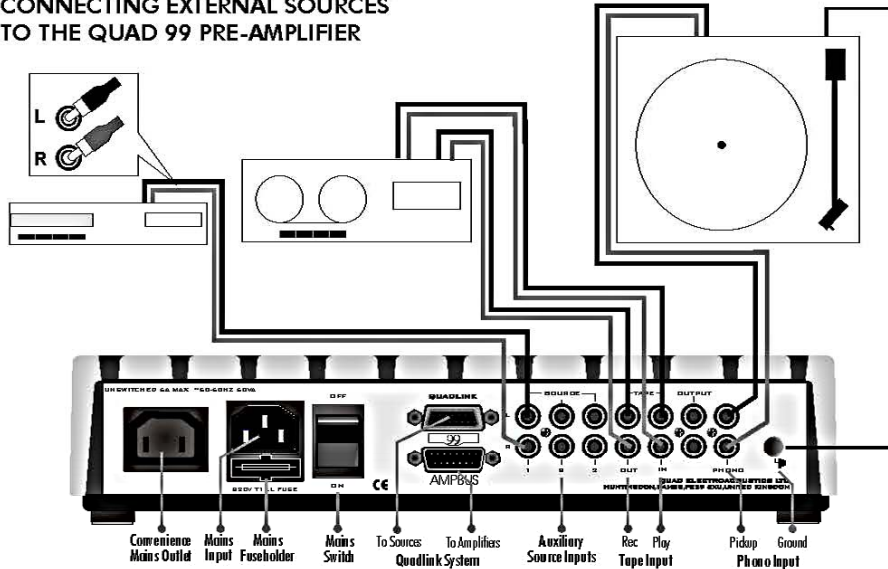
QUAD 99 SYSTEM CONNECTIONS



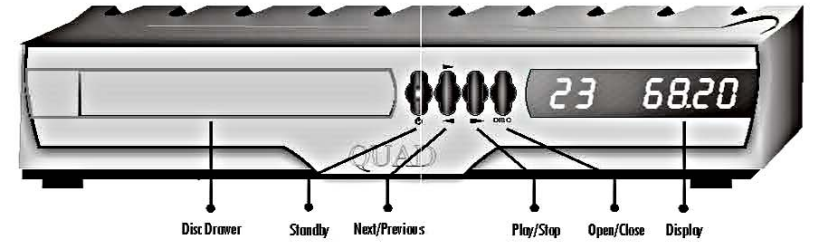
CONNECTING THE QUAD 99 PRE-AMPLIFIER TO A NON-QUAD 99 SERIES POWER AMPLIFIER



CONNECTING EXTERNAL SOURCES TO THE QUAD 99 PRE-AMPLIFIER



Operation



Switching On

Switch on the power at the mains and at the power switch at the rear of the player. The STANDBY light on the Standby button glows Red.

The CD-S may be operated from either the front panel or via the remote handset. The front panel controls allow basic operation; handset operation is required to realise all the advanced operating features of the CD-S.

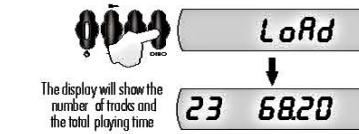
Front Panel Operation

Depress the Standby button. The Standby light will go Green.



Loading and Playing a CD

Press the DISC button to open the disc drawer. Load a disc label side up in the tray. Press DISC again to close the drawer.



To play a CD: Press Play. Playing will commence from track 1.



To choose and play a given track: Press the Next/Previous key repeatedly to advance or reverse the track one unit.

To go forward: Press the upper part of the Next/Previous key to select a track. Each press advances the CD one track.



To go back: Press the lower part of the Next/Previous key once. The CD will go to the start of the previous track. Press the key again to go back one track at a time.

To stop a CD while playing: Press Play. The disc will stop.



To revert to Standby: Press Standby.

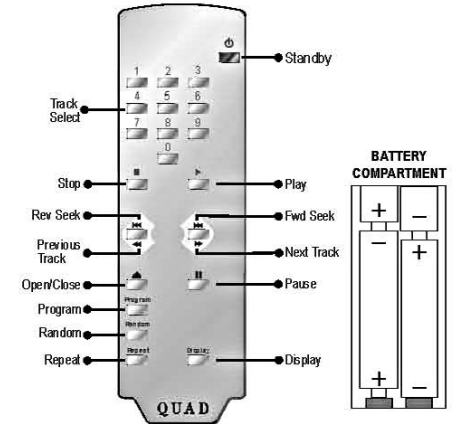
The Red Standby light will come on.



Note: When you load a CD, the player has to determine which of the many formats the disc may be in before it can display the track and time information. This takes a couple of seconds during which the mechanism will whirr audibly - this is quite normal.

THE CD-S REMOTE CONTROL HANDSET

The CD-S handset replicates all the CD-S control panel features plus several additional features that add functionality to its performance, including Input Selection.



Inserting the Batteries: Carefully remove the cover on the rear of the handset. Unwrap the four supplied AAA batteries and insert them in the positions shown. Replace the cover.

Operating the CD-S with the Remote Handset

Switching On: Press the Standby Button. The Standby Light will change to Green.



QUAD 99 Series User Guide

INTRODUCTION

The Quad 99 series is a matched range of equipment which can be connected using the Quadlink system. Please read this manual fully before you begin to install and use the equipment.

Product Registration and Warranty

QUAD equipment is guaranteed against any defect in material and workmanship for a period of one year from the date of purchase. Proof of purchase is required for Warranty claims.

Please complete and return the enclosed Warranty Registration form. Within the warranty period QUAD will undertake replacement of defective parts free of charge provided that the failure was not caused by misuse, accident or negligence. Your statutory rights within the territory in which you purchased the equipment are not affected by this warranty.

QUAD carries out regular reviews and reserves the right to adjust the specifications and performance from time to time.

UNPACKING THE EQUIPMENT

The 99 Pre-Amplifier carton contains:

- 99 Pre-Amplifier
- 99 System Remote Control
- One 1 m long IEC mains lead
- One 160mm long Quadlink cable

- One 99 System Instruction Manual, Issue 4
- Warranty Registration Form.

The CDP-2 and the CD-S CD player cartons each contain:

- 99 CDP-2 or 99 CD-S Compact Disc Player
- One 1 m long IEC mains lead
- One RCA stereo phono connecting cable
- One CD-Remote Control Handset with batteries.
- One 99 System Instruction Manual, Issue 4
- Warranty Registration Form

The 99 FM Tuner carton contains:

- 99 FM Tuner
- One 160mm long Quadlink cable.
- Warranty Registration Form.

Consult the dealer from whom you purchased the equipment if any of these items are not present.

Carefully unpack all the units and accessories. Take care not to damage the surface finish when undoing the protective polythene sleeve. Retain the packing materials for future use.

Retain the user manual and information concerning the date and place of purchase of your equipment for future reference. If you transfer any unit to a third party please pass on this instruction manual along with the equipment.

INSTALLATION

Connecting Quad 99 Series Units

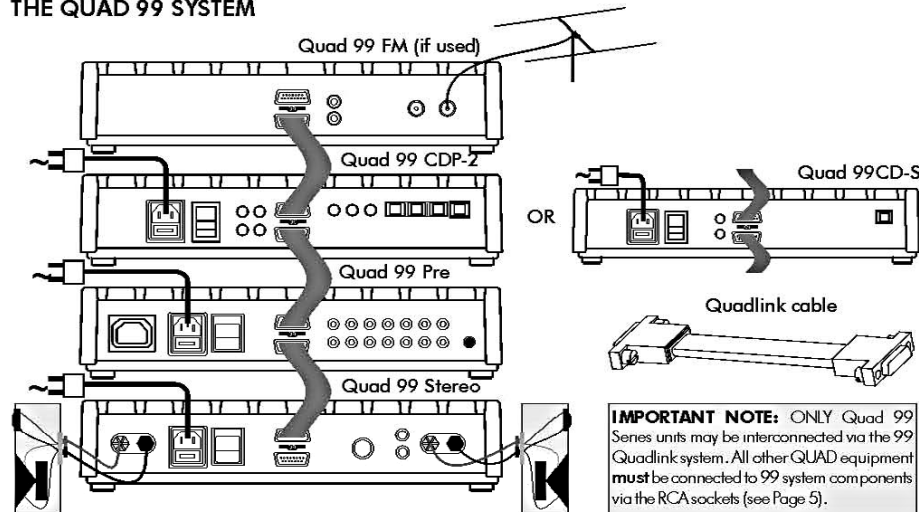
Place the Quad 99 system components in the order shown in the typical system diagrams on this page and the next page.

Before connecting any units, ensure that the mains switches on

the rear panels of the Quad 99 units are OFF and that the power is off at the mains sockets.

Connect the Quad 99 units together with the special Quadlink cable supplied with each unit. Starting with the lowest unit, connect the upper socket of the lower unit to the lower socket of the next unit above until you have a daisy chain.

THE QUAD 99 SYSTEM



SPECIFICATIONS - 99 PRE AMPLIFIER

Aux. & Tape Inputs	
Sensitivity	100mV, 300mV, 775mV
Signal-to-Noise Ratio	>97dB(A) ref 775mV
Distortion	<0.002%
Phono Inputs MM (MC)	
Sensitivity	1,3, or 7.75mV (100,300 or 775uV)
Signal to Noise Ratio	78dB(A) ref 7.75mV (775uV)
Distortion	<0.05% (0.01%)
Output Level	775mV (3.3volts maximum)
Output Impedance	100 ohms
AMPBUS Output Level	2 volts (8 volts maximum)
Output Impedance	20 Ohms
Tape Output Level	100, 300, 775mV (10 volts maximum)
Output Impedance	330 Ohms
Frequency Response	
Line Inputs	10Hz to 20kHz +0dB/-0.3dB 3Hz to 56kHz +0dB/-3dB
MM & MC inputs	20Hz to 20kHz +/- 0.5dB 7Hz to 53kHz +0.5dB/-3dB
Dimensions (H x W x D)	70mm x 321mm x 310mm
Weight	4.42Kg

SPECIFICATIONS - 99 FM TUNER

Tuning Range	88-108 MHz
Channel Spacing	50kHz
Sensitivity	
(30 dB quieting)	Mono 8dB μ V
(50 dB quieting)	Mono 18dB μ V Stereo 18dB μ V
Signal/Noise	
(input 1kHz, 1mV)	Mono 72dB(A) Stereo 67dB(A)
Distortion	
(1kHz \pm 25kHz dev)	Mono 0.03% Stereo 0.05%
Capture Ratio	1.5dB
IF Rejection	>100dB
AM Suppression	>60dB
Image Rejection	>80dB
Pilot Tone Suppression	>78dB
Cross-talk	-40dB (at 1 kHz)
De-emphasis	50 μ s or 75 μ s
Aerial Inputs	2 x 75 Ohms unbalanced
Dimensions (H x W x D)	70mm x 321mm x 310mm
Weight	2.8kg

SPECIFICATIONS - 99 CDP-2 COMPACT DISC PLAYER

Max. Line Output Level (RCA)	2.4V RMS
Max. Output Level (Quadlink)	5.3V RMS, Balanced
Frequency Response	20 Hz -20 KHz (+0dB/-0.5dB)
Total Harmonic Distortion (THD):	<0.002% at 1kHz
Signal to Noise Ratio (S/N)	>110dB, 24bit (20 Hz -20 KHz) >95dB, 16bit (20 Hz -20 KHz)
Crosstalk:	< -100dB at 1kHz
Gain Error:	< 0.5dB (@ -90dB, f=500Hz)
D/A Converter	
Maximum resolution:	24 bit
Maximum sampling freq.	192kHz
Upsampling:	x2
Digital Audio Inputs	3 x RCA Coax 75ohm, SPDIF 3 x Optical Toslink, SPDIF
Digital Audio Output	Optical Toslink SPDIF
Disc Compatibility	CD-DA Conventional Audio CD CD-R Recordable CD
Dimensions (H x W x D):	80mm x 321mm x 310mm
Weight:	4.5kg