



Talk Electronics

User Manual

Thunder User Manual

INTRODUCTION

Thank you for choosing a Talk Electronics Thunder CD player. We are confident that it will provide you with many years of musical enjoyment and reliable service. However, please take the time to read this guide thoroughly before using the amplifier. It explains how to install and connect it, and suggests how to ensure that you always enjoy its optimum performance.

UNPACKING LIST

- CD player
- Remote control handset
- AC power cord
- Instruction manual
- Guarantee card

INSTALLATION INSTRUCTIONS

HOW TO SITE AND CONNECT YOUR CD PLAYER FOR BEST PERFORMANCE AND SAFE OPERATION

Please unpack your amplifier carefully and position it on a stable, level surface close to a mains socket. Before attempting to connect it into your system please read this manual carefully.

The Player will perform well placed on a coffee table or bookshelf but if you wish to achieve the best performance we suggest you place it on a specialist hi-fi support. There are many suitable designs available, about which your dealer will be happy to offer advice. Do not place the Player directly on top of or beneath another component. Ideally, you should place the player on a separate shelf.

Position the CD player so that it will not be subjected to high ambient temperatures: avoid sites where it will be in direct sunlight or close to a central heating radiator. Placing the player in direct sunlight is inadvisable because sunlight entering the remote control sensor window can cause the player to malfunction. For your own safety – and your CD player's well being – do not allow it to come into contact with water. Keep it away from potted plants to avoid those all-too-common watering accidents!

To clean the case disconnect it from the wall socket and wipe it with a barely damp, lint-free cloth or chamois leather. If you suspect that water has entered the casework, return the Player to your dealer so that he can examine it.

Once you have installed the CD player please do not throw away its packaging. If you move home or need to return the unit to your dealer for an upgrade (or in the unlikely event of it needing a repair), the original packaging will protect it and ensure it arrives undamaged.

SAFETY

The Talk range of CD players contains laser optics. You must never remove the lid from a player and look into the laser while it is operating: this could damage your eyes.

ELECTRICAL CONNECTIONS

The Thunder comes with a ready assembled mains lead and we suggest that you use this to connect it to the mains supply. We strongly recommend the use of a Merlin mains lead as this will improve the performance for a small outlay. These are available from your dealer or distributor. Whichever mains lead you choose we suggest that you connect the lead directly to a wall socket and do not use extension blocks, which degrade sound quality. For the same reason we also advise against “line filters” and “mains conditioners”. If your mains supply is noisy or you have household appliances that generate clicks and pops that can be heard through your hi-fi system, have an electrician correct the problem at its source.

Should you need to replace the fuse in your CD player or mains plug, please fit only the correct replacement types. These are marked on the PCB internally and should only be fitted by qualified personnel. There are no external fuses on the player itself.

If, for any reason, you wish to replace the plug or cable, please note that the lead must be connected as follows. NOTE: These instructions apply in the United Kingdom only – consult your dealer or distributor about wiring conventions in other countries.

Green and yellow wire connects to EARTH (E or symbol \perp)

Blue wire connects to NEUTRAL (N)

Brown wire connects to LIVE (L)

Please ensure that the replacement lead contains a 3A fuse.

DC POWER CONNECTIONS

If you have opted for one of our external Whirlwind DC power supplies this should be connected using only the cables supplied with the Whirlwind. We strongly recommend that you do not replace or attempt to modify these cables. Doing so can adversely affect the CD player's performance and is likely to cause damage.

You will also need to re-configure your player for external DC operation using the internal jumpers as described below.

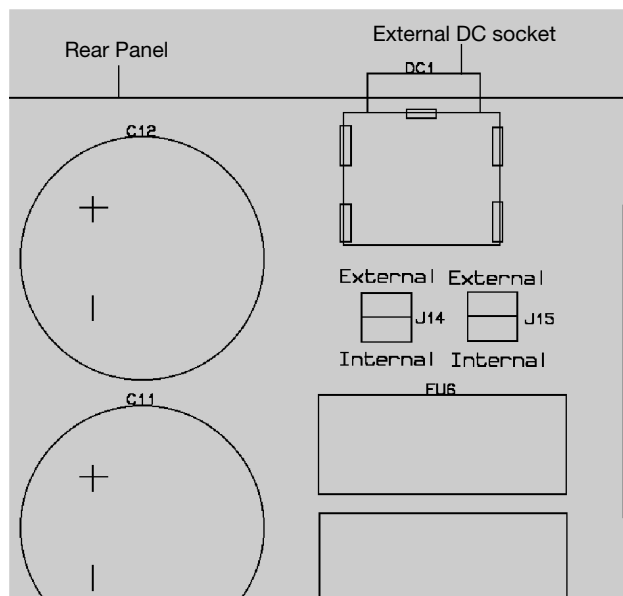


DIAGRAM 1. INTERNAL/EXTERNAL JUMPER POSITIONS

Before attempting to re-configure your player, disconnect the mains lead at the wall socket. Having made your player safe, remove the cover by unscrewing the five screws located on the rear and the four on the underside. The cover slides off backwards. Locate the blue jumpers using the diagram above (Diagram 1.) and position them for the desired configuration. Replace the cover, connect your Whirlwind power supply and re-connect the mains lead to the wall socket.

SWITCHING YOUR CD PLAYER ON AND OFF

If you are using a Whirlwind external DC supply to power the analogue parts of your CD player we suggest that this, once connected, is left switched on all the time. To avoid “switch-on thumps” being transmitted to your loudspeakers when you switch on your CD player, we recommend that you always switch on – or cancel mute on – your amplifier last. Start by powering source components, such as your CD player, then power the pre-amplifier. Then switch on the power amplifier. When you’ve finished listening, mute or turn off the power amplifier and then mute your pre-amplifier. Finally, turn off your CD player and other source components. You may, if you wish, leave your CD player powered up at all times: this will enable it to deliver optimum performance as soon as you begin listening, however we suggest that you switch off the display when not required. This requires that a disc is present in the player at all times.

The power switch mounted on the Thunder's rear connects and disconnects the mains supply. When mains is connected, the display on the facia will illuminate. If you plan to be away from home for long periods – when, for example, you are on holiday – you can use this switch to power down the CD player completely. For absolute safety, disconnect the mains lead from the wall socket. We advise that you do this during thunderstorms to avoid damage from power line surges.

REAR PANEL

MAINS CONNECTIONS

Next to the mains switch, on the rear panel, is an IEC socket into which the supplied mains lead fits. The fuse in the UK mains plug is a 3A standard type. Again, if you need to replace it use an identical type rated at 3A. If the fuses keep blowing return the CD player to your dealer.

OUTPUT CONNECTIONS

The analogue output sockets on the CD player are found on the rear panel. Connect these to your amplifier or pre-amplifier's CD input using high quality interconnect cables (we strongly recommend Merlin cables for optimum performance). On all players, the socket marked in red is the right channel, and the white socket is the left channel.

There are digital outputs as standard on all our players. Our research shows that the levels of signal jitter caused by separating the player's transport mechanism and DAC introduce an unacceptable degradation in sound quality, counteracting the benefits accrued through using our high quality, ultra-low jitter, 24-bit DAC. If you wish to make digital recordings you will need to switch on the digital output provided using the yellow internal jumper, see

Diagram 2. However, we caution you that this addition will have a slight detrimental effect upon the player's performance.

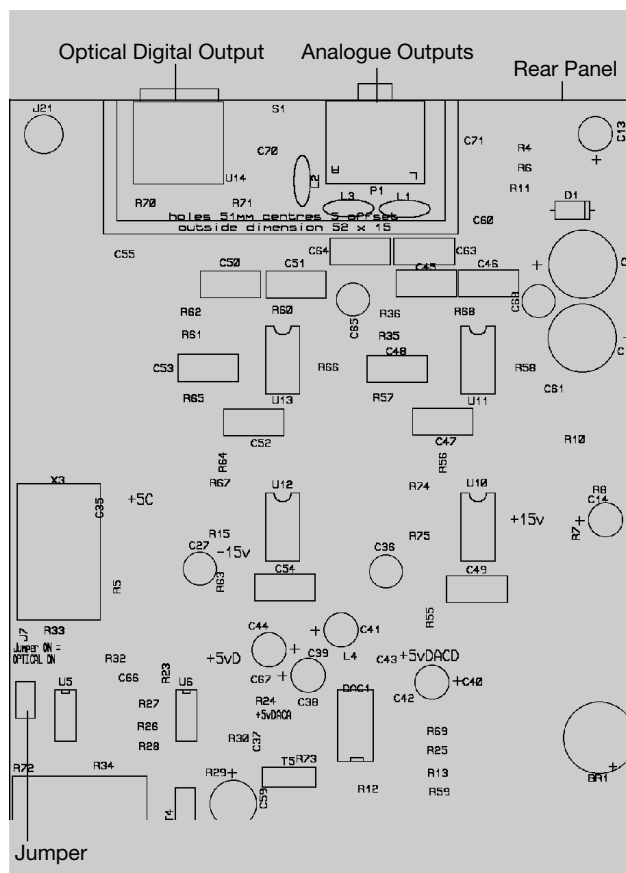


DIAGRAM 2: SP/DIFF OUTPUT SELECTION

Before attempting to re-configure your player, disconnect the mains lead at the wall socket. Having made your player safe, remove the cover by unscrewing the five screws located on the rear and the four on the underside. The cover slides off backwards. Locate the yellow jumper using the diagram above (Diagram 2.) and position it for the desired configuration. Replace the cover and re-connect the mains lead to the wall socket. The Digital Output should now work accordingly.

OPERATING YOUR CD PLAYER

You can control the major functions of your CD player from either the remote control handset or the buttons on the player's fascia. If you simply wish to play a disc you do not need the remote control. However, do not lose the handset because it is required when you wish to program the player or use features such as *FF* or *FR*.

PLAYER CONTROLS

OPEN: Push once to close the player's drawer after inserting a disc. Do not push the drawer closed with your hand as this can damage the drawer mechanism.

PLAY/PAUSE: Push once to start the disc playing. If the player's drawer is open, pushing play will cause it to close and commence playing automatically. Pressing for a second time whilst playing a disc will pause the disc.

REPEAT: Push once to repeat the whole disc. Push twice to repeat the track currently playing. Pressing the button a third time returns normal operation.

STOP: Push once to stop the player operating.

PREVIOUS: Push during Play mode to play the previous track. Pushing more than once will cause the player to go back an equivalent number of tracks.

NEXT: Push during Play mode to play the next track. Pushing more than once will cause the player to advance an equivalent number of tracks.

TIME: Push once during Play mode to display the time remaining on the current track. Push again to display the time remaining on the disc. Push while the player is in Stop mode to display the total number of tracks and playing time of the disc.

Note: if the disc contains more than 69 tracks the display will show “ _ . _ ” instead of the remaining time. It will show the same if the remaining time exceeds 100 minutes during PROGRAM PLAY mode.

DISPLAY: Push once to turn off the display. Push again to return the display to full brightness.

Note: When the display is switched off, pushing any control on the player or remote handset, or changing the disc, will switch on the display for about 3 seconds. Please note that this function only works if a disc is present in the player and playing.

REMOTE CONTROL FUNCTIONS

As well as duplicating the major controls found on the player, the remote handset provides the following additional features.

PROGRAM: push to construct a program containing up to twenty-four selected tracks. The player will play your selections in the order in which you enter them into the program.

1. Select a track number by pressing the PREVIOUS or NEXT key, or by using the numerical keys.
2. Press PROGRAM. “PROGRAM” appears on the display panel indicating *Program Play* mode.
3. To add further tracks repeat steps 1 and 2.

Once you have entered all the desired tracks, you can play your programme by pressing the PLAY button

To erase a programmed track, press the CLEAR key. Each time you press CLEAR, the last selection in the program will be removed. Press STOP to stop the program playing, then press STOP again.

FAST FORWARD and **REWIND**: To move rapidly to a particular section of music you can use the FAST FORWARD or REWIND keys, depending, obviously, upon whether you wish to access a section not yet reached or one that you have passed. While the player is in Play mode you will hear music playing at high speed. To move quickly through the disc in silence, press PAUSE before pushing the FF or REW buttons.

NUMERIC KEYS: These are used for entering selections in *Program* mode or for starting Play mode from a particular track. For example, loading a disc and then pressing “7” will cause the player to start playing the disc beginning at track 7. To access tracks greater than 9, first press “0” followed by the track number required.

VOLUME: The volume buttons will operate the volume function on any remote control amplifier that accepts RC5 commands. They are provided solely for your convenience, as there are no volume control functions on the CD player.

HIDDEN MODES

These are only accessible with the use of an RC5 handset with the appropriate keys (Not the supplied handset).

SHUFFLE: Press SHUFFLE followed by PLAY to listen to tracks in a random order. To cancel Shuffle mode, press SHUFFLE again.

INTRO: Press INTRO and the player will scan through the disc playing the first 10 seconds of each track. Press INTRO while in Play mode and the player will scan through the disc playing the first 20 seconds of each track. To cancel either Intro mode simply press PLAY.

TIMER MODE

Your player is equipped with a Timer Mode. This allows the player to automatically play a disc when powered on from the mains via the use of an external timer. It is switched off by default at the factory. To turn this on follow the instructions below using Diagram 3.

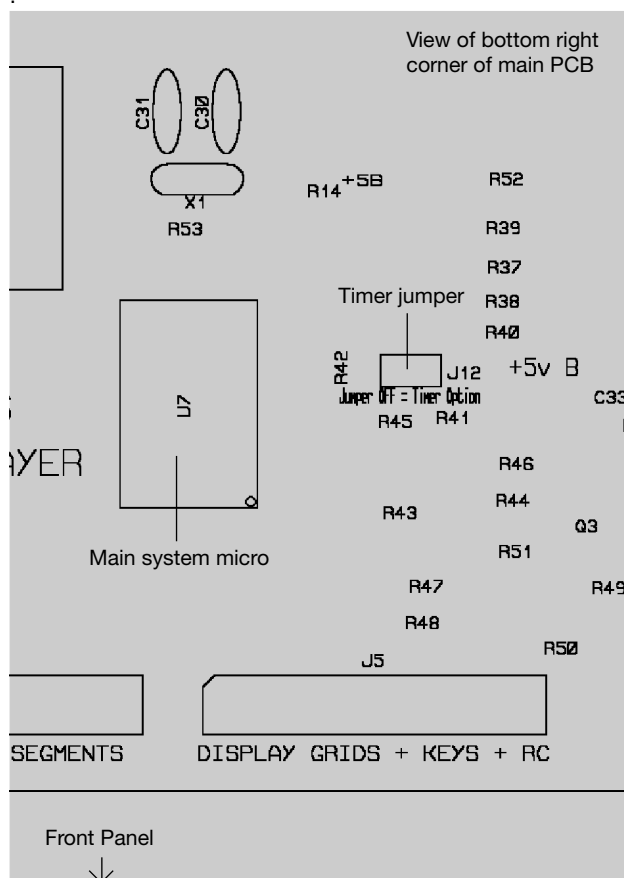


DIAGRAM 3: TIMER OPTION

Before attempting to re-configure Timer Mode, disconnect the mains lead at the wall socket. Having made your player safe, remove the cover by unscrewing the five screws located on the rear and the four on the underside. The cover slides off backwards. Locate the yellow jumper located in the bottom right corner of the main PCB using Diagram 3. above. To set the Timer ON remove the yellow jumper or place it in such a way that it is held by only one pin. Replace the cover and re-connect the mains lead to the wall socket. The Timer Mode should now be operational via the use of an external mains power timer.

SPECIFICATIONS

		THUNDER 1.1	THUNDER 2.1
Maximum Output Voltage		2.3V	2.3V
Output Impedance		<50 ohms	<50 ohms
Frequency Response		5 – 20k \pm 0.5dB	5 – 20k \pm 0.5dB
Distortion 1kHz max output		\leq 0.001%	\leq 0.001%
Signal - to - Noise Awtd		-104dB	-104dB
Mains Voltage		230V /115V/100V AC \pm 10%	230V /115V/100V AC \pm 10%
Dimensions	width	430mm	430mm
	height	90mm	90mm
	depth	300mm	300mm
		(allow at least 400mm for connections)	
Weight per unit	unpacked	6.2kg	6.2kg
	packed	7.6kg	7.6kg

Talk Electronics' policy of continued research and development means that the above specification may change without notice.

The Thunder has been manufactured to conform with the protection requirements of the EC Council directive 89/336/EEC relating to EMC by application of the following standards:

EN50081-1 1992 Emissions Standard

EN50082-1 1992 Immunity Standard

and also the requirements of the EC low voltage directive relating to electrical safety by application of the following standard
BS EN60065: 1994 Safety standard

For the purposes of testing the Thunder was used with the mains cables and high quality interconnects supplied by Merlin Cables. Compliance with the above standards can only be made if the unit is installed as per this manual and using the correct cables.

Guarantee: 3 Years return to dealer.

To help us provide you with the most efficient service please return your guarantee card promptly. Your CD player is guaranteed against manufacturing and component defects for a period of 3 years. The guarantee does not cover and damage caused by accident, misuse, neglect or through incorrect installation, adjustment or repair by unauthorised personnel or the cost of collecting the Thunder from you and returning it to the dealer. The above does not effect your statutory rights as a consumer. E & OE



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