

**TANNOY**

eclipse

OWNER'S MANUAL

# eclipse

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## WARRANTY

No maintenance of the loudspeaker is necessary.

As part of the MUSIC Group, Tannoy is committed to providing the highest quality products, service and user experience for our customers. One element of this commitment is our after sales support which now incorporates our extended Limited Warranty. In the event of any concern that is not addressed by this extended Limited Warranty we would ask you to contact us at [care@music-group.com](mailto:care@music-group.com).

For full warranty details including the extended Limited Warranty, please visit <http://www.music-group.com/warranty.aspx> and register your purchase online at [www.music-group.com](http://www.music-group.com) or [www.tannoy.com](http://www.tannoy.com).

## INTRODUCTION

Thank you for selecting Eclipse loudspeakers developed in the UK by our dedicated team of design engineers. They are the choice of discriminating music lovers the world over. Musical excellence is designed into our loudspeakers from the start. Careful selection of the very best components combined with strict quality control procedures in the production process ensures this level of excellence is maintained.

To gain maximum performance from your loudspeakers, please take time to read this owner's manual in full before installation.

Loudspeakers are electromechanical devices that 'run-in' through use; performance will therefore improve after an initial period of 24hrs use. Once they have been further run-in over a longer period, there will be clear enhancement of the stereo imaging, mid-band quality and bass performance characteristics.

**We are confident that you will continue to enjoy your new Eclipse loudspeakers for many years to come.**

## AMPLIFIER CHOICE

Consult the product specification as this clearly shows the acceptable power range for amplifier matching to your speakers. The high peak power handling of Eclipse loudspeakers permits responsible use with more powerful amplifiers - please read the Warranty.

As with all loudspeaker systems, the power handling is a function of voice coil thermal capacity. Care should be taken to avoid overdriving any amplifier, as this will cause output overload resulting in 'clipping' or distortion within the output signal. This, if done for any extended period, will cause damage to the speakers.

Generally an amplifier of higher power that is running hard, but free of distortion, will do less damage to the loudspeaker than a lower power amplifier continually clipping. Remember also that a high powered amplifier running at less than 90% of output power generally sounds a great deal better than a lower powered example struggling to achieve 100%. An amplifier with insufficient drive capability will not allow the full performance of the loudspeakers to be realised.

## CABLE CHOICE

Always use the best quality of cable available within your budget. High quality audio signals passing from the amplifier to the loudspeaker are unusual in their demands on the cable. Wide dynamic range and frequency bandwidth information has to coexist with the ability to transmit peak currents of at least 10 amps, without incurring any loss or signal impairment. This explains why the sound quality of the information reproduced by the loudspeakers is so dependent on the physical properties of the cables connecting them to the amplifier.

We would recommend that you always keep the cable runs as short as possible and the same length for each speaker. Remember that cable construction can affect the sound quality so be prepared to experiment to find a cable that suits your ear and audio system.

## UNPACKING

To unpack the loudspeakers from their boxes remove tape from the top then fold the flaps right back before inverting the carton and contents. Lift the carton clear of the contents then remove all inner packaging.

It is strongly recommended that you store all the packaging to allow protected transportation in future.

## FITTING OF ACCESSORIES

Check the following accessories are present in the carton, according to model:

- ONE, MINI & CENTRE: Self adhesive feet x 4
- TWO & THREE: Plinth sections x 2, plinth mounting screws x 4, carpet spikes x 4, locking nuts x 4, spike locating cups x 4

### ONE, MINI & CENTRE

The supplied self-adhesive feet may be fitted to the underside of the loudspeaker to prevent slipping and avoid damage to the surface of the shelf or stand. The tweeter should be roughly at ear height when seated in the chosen listening position.

### TWO & THREE: FLOOR STANDING MODELS

The Eclipse floor standing models perform best with the plinth and carpet piercing spikes fitted, giving optimum stability and sound quality. First fit the plinth sections to the underside of the loudspeaker with the 4 screws provided, taking care not to over tighten. The spikes provided, along with lock nuts, should be inserted into the threaded holes in the underside of the plinth. Level the speaker and then tighten the lock nuts firmly but without using undue force. Spike locating cups are provided in the accessory pack and these may be used to protect sensitive floor surfaces. (See fig. 1)

#### WARNING:

Ensure that the spikes are levelled and that the lock nuts are tightened firmly. The spikes should be pushed through the carpet to locate into the flooring surface by applying pressure to the top of the cabinet.

If using on a sensitive floor surface place the protective cups under the levelled spikes. Failure to do so could render the speaker unsteady and result in damage or injury should it be knocked over.

## CONNECTION

To avoid potential damage to your loudspeaker, ensure that the amplifier is switched OFF prior to connecting or disconnecting any cables. Before switching on double check that all connections are secure and that polarity is correct.

- The positive (plus) terminal on the amplifier left channel (marked + or coloured red) must be connected to the positive HF terminal on the left speaker. The left speaker is the one on the left as you look at the stereo pair from your listening position.
- The negative (minus) terminal on the amplifier left channel (marked - or coloured black) must be connected to the negative HF terminal on the left speaker.
- Repeat this connection process for the right speaker. Remember that the positive (+ or red) on the amplifier must be connected to the positive (+ or red) on the speaker and the negative (- or black) to negative.
- Select a signal source, such as a CD player; switch on the amplifier and slowly turn up the volume control to check that both loudspeakers are reproducing bass and treble information. (See fig. 2)

## POSITIONING AND FINE-TUNING

To get best results from your new Eclipse loudspeakers it is worthwhile spending a little time finding the optimum setup configuration.

Begin by angling the speakers towards your chosen listening position, usually this is on the centre line of the room, so that when seated you can just see the inner side panel of each speaker. The front of the loudspeaker should not be obstructed in any way. The loudspeakers should be located between 1.5 to 4.5 metres (5 ft to 15 ft) apart - with the listening position set slightly further away than the speakers are apart. Avoid positioning the loudspeakers in corners of the room, as this will have a negative effect on performance. Ideally, maintain a distance of at least 0.5 metres (20 inches) from the rear wall, and 1 metre (39 inches) from the side. (See fig. 3)

With the speaker in its listening position, rock the loudspeaker gently from side to side so that the spikes find their way through the weave of the carpet and on to the solid surface below. Once fine adjustments have been made to the spikes, to level the loudspeaker and ensure stability, tighten the lock nuts firmly but without using undue force.

## HOME THEATRE 5.1 - GENERAL INFORMATION

Unlike other forms of encoded surround audio, 5.1 offers full bandwidth capability for the surround and centre channels, with the ability to treat the subwoofer as a single discreet channel for special effects playback or, for music applications, as a dedicated low frequency instrument channel. This places new demands on the surround and centre channel loudspeakers in both the mixing environment and the playback environment.

The 5.1 format allows the mix engineer in the recording studio to assign audio information to one or more discreet channels of playback; providing very vivid and exacting localisation for the apparent sound sources in the listening environment. To reliably recreate that accurate localisation during playback, the selection and location of loudspeakers becomes the single most critical issue next to the talent of the mix engineer in the studio. (See fig. 4)

## THE SYSTEM

A 5.1 system consists of two main front loudspeakers, two rear effects speakers at the rear (often wall mounted) and a centre channel. The subwoofer provides the .1 part of the system.

In Home Theatre applications the matched dispersion of all Eclipse models provides a very focussed soundstage retaining natural voicing and ensuring that aural effects and speech localisation 'pan' from left to right and front to rear seamlessly.

## GRILLES

The Eclipse grilles have been designed to provide acoustic transparency. However, for ultimate fidelity the enthusiast will appreciate the slight improvement in clarity and detail that is achieved by removing the grilles during listening.

## CARE OF CABINET

The cabinets should only be cleaned with a dry cloth or with a light application of quality non-silicone furniture polish.

TECHNICAL SPECIFICATIONS

	ECLIPSE ONE	ECLIPSE TWO	ECLIPSE THREE
PERFORMANCE			
Recommended amplifier power (Watts RMS)	15 - 70	15 - 90	15 - 120
Continuous power handling (Watts RMS)	35	45	60
Peak power handling (Watts)	140	200	240
Sensitivity (2.83 Volts @ 1 m)	87 dB	88 dB	90 dB
Nominal impedance (Ohms)	8	8	8
Frequency response (-6 dB)	55 Hz – 32 kHz	44 Hz – 32 kHz	38 Hz – 32 kHz
DRIVE UNITS			
High frequency	28 mm (1.1") Nitro-urethane damped layer woven polyester dome, neodymium magnet system	28 mm (1.1") Nitro-urethane damped layer woven polyester dome, neodymium magnet system	28 mm (1.1") Nitro-urethane damped layer woven polyester dome, neodymium magnet system
Low frequency	127 mm (5") Multi-fibre coated pulp paper cone	127 mm (5") Multi-fibre coated pulp paper cone	127 mm (5") Multi-fibre coated pulp paper cone x 2
CROSSOVER			
Crossover frequency	3.2 kHz	3.2 kHz	3.2 kHz
Crossover type	Passive low loss 2 <sup>nd</sup> order low pass, 3 <sup>rd</sup> order high pass	Passive low loss 2 <sup>nd</sup> order low pass, 3 <sup>rd</sup> order high pass	Passive low loss 2 <sup>nd</sup> order low pass, 3 <sup>rd</sup> order high pass, bi- wired
CONSTRUCTION			
Enclosure type	Rear ported reflex	Rear ported reflex	Rear ported reflex
Volume	8.0 litres (0.28 cu. ft.)	18.9 litres (0.67 cu. ft.)	26.8 litres (0.95 cu. ft.)
Dimensions (H x W x D) (incl. plinth* & grille)	300 x 170 x 255 mm (11.8 x 6.7 x 10")	909 x 269.6 x 287 mm (35.8 x 10.6 x 10.9")*	959 x 269.6 x 287 mm (37.8 x 10.6 x 10.9")*
Net weight	4.5 kg (9.9 lbs)	11.5 kg (25.4 lbs)	12.1 kg (26.7 lbs)
Finish	Black Oak	Black Oak	Black Oak

## TECHNICAL SPECIFICATIONS

	ECLIPSE MINI	ECLIPSE CENTRE
<b>PERFORMANCE</b>		
<b>Recommended amplifier power</b> (Watts RMS)	15 - 60	15 - 90
<b>Continuous power handling</b> (Watts RMS)	30	45
<b>Peak power handling</b> (Watts)	140	180
<b>Sensitivity</b> (2.83 Volts @ 1 m)	86 dB	90 dB
<b>Nominal impedance</b> (Ohms)	8	8
<b>Frequency response</b> (-6 dB)	58 Hz – 32 kHz	67 Hz – 32 kHz
<b>DRIVE UNITS</b>		
<b>High frequency</b>	28 mm (1.1") Nitro-urethane damped layer woven polyester dome, neodymium magnet system	28 mm (1.1") Nitro-urethane damped layer woven polyester dome, neodymium magnet system
<b>Low frequency</b>	100 mm (4") Multi-fibre coated pulp paper cone	2 x 100 mm (4") Multi-fibre coated pulp paper cone
<b>CROSSOVER</b>		
<b>Crossover frequency</b>	2.2 kHz	2.4 kHz
<b>Crossover type</b>	Passive low loss 2nd order low pass, 3rd order high pass	Passive low loss 2nd order low pass, 3rd order high pass
<b>CONSTRUCTION</b>		
<b>Enclosure type</b>	Rear ported reflex	Rear ported reflex
<b>Volume</b>	3.0 litres (0.11 cu. ft.)	5.6 litres (0.2 cu. ft.)
<b>Dimensions (H x W x D)</b> (incl. plinth* & grille)	225.0 x 145.0 x 175.0 mm (8.9 x 5.7 x 6.9")	157.0 x 400.0 x 160.0 mm (6.2 x 15.8 x 6.3")
<b>Net weight</b>	2.9 kg (6.4 lbs)	3.6 kg (7.9 lbs)
<b>Finish</b>	Black Ash	Black Ash

## SET-UP DIAGRAMS

Fig.1 Eclipse Plinth Assembly

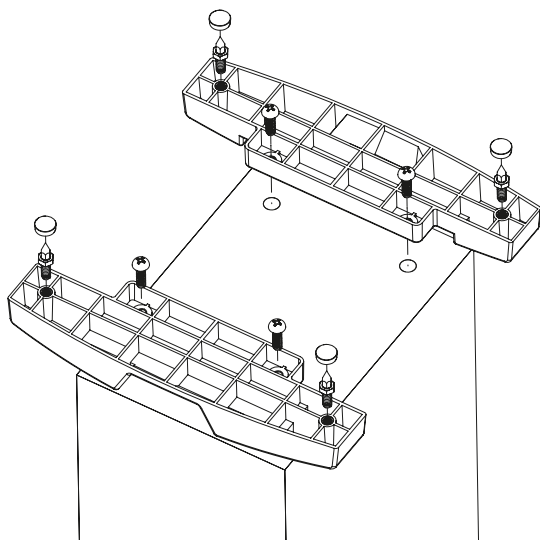
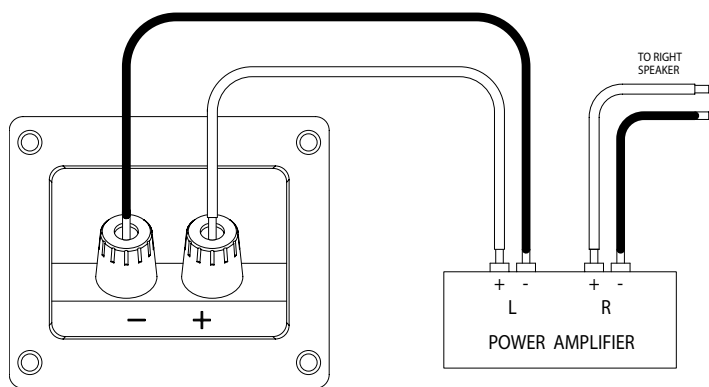


Fig. 2 Connection, All Models



## SET-UP DIAGRAMS

Fig.3 Recommended positioning - Stereo pair

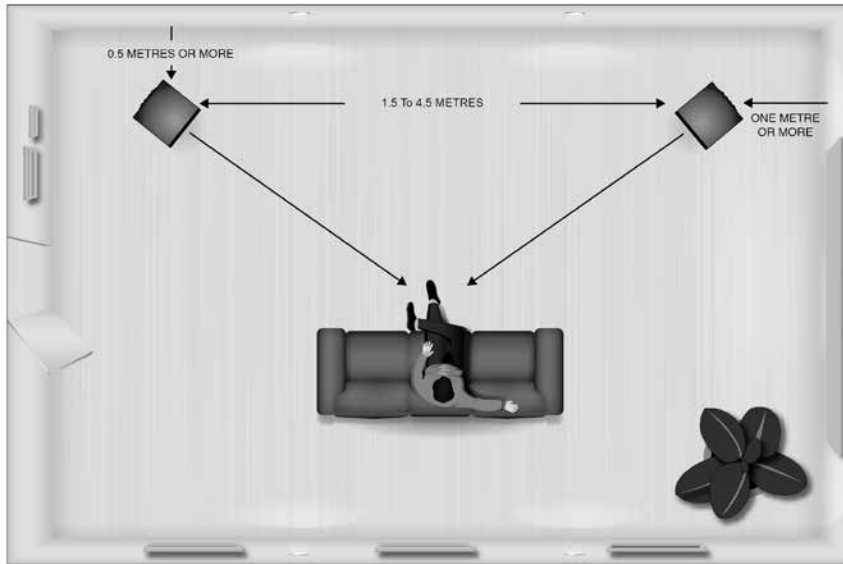
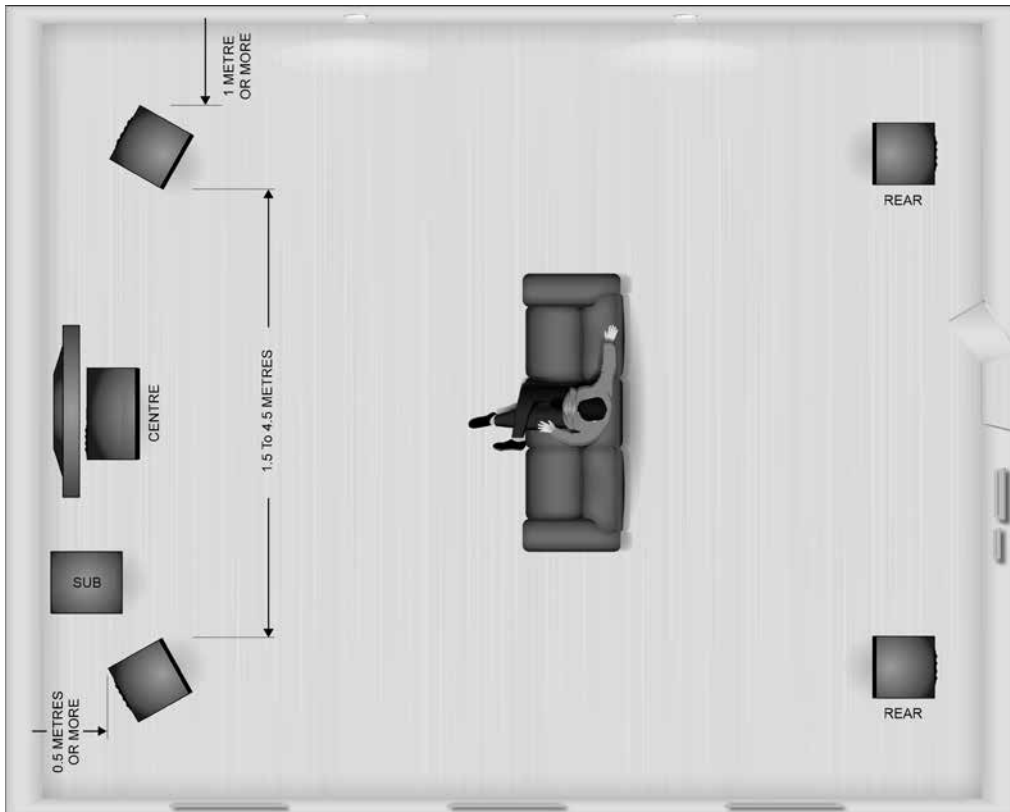


Fig.4 Recommended Positioning - Home Cinema





NOTES

Tannoy Limited - product designed in the United Kingdom.  
Tannoy operates a policy of continuous research and development. The introduction of new materials or manufacturing methods will always equal or exceed the published specifications. All specifications are subject to change without notice.  
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