



TANNOY

160

passive

OWNER'S MANUAL

CONTENTS

- 1 **WARRANTY**
- 2 **UNPACKING**
- 3 **WARNING - STRONG MAGNETIC FIELD**
- 4 **CAUTION**
- 5 **SELF ADHESIVE FEET**
- 6 **POSITIONING**
- 7 **SURROUND MONITORING**
- 8 **AMPLIFIER MATCHING**
- 9 **CABLE CHOICE**
- 10 **CONNECTING YOUR SPEAKERS**
- 11 **CABINET CARE**
- 12 **TECHNICAL SPECIFICATIONS**

1 WARRANTY

No maintenance of the 601p monitor is necessary.

This equipment has been produced and tested with care and precision. It is built to give first class service and carries a 5 year warranty. If the equipment proves to be defective within this period for any reason other than accident, misuse, unauthorised modification or fair wear and tear, Tannoy will repair any such defect or, at our option, replace it without charge for parts, labour or return carriage. This warranty is given in addition to the customer's statutory rights.

Please register your Tannoy product online at www.tannoy.com

If you suspect a problem with your subwoofer, please contact your local Tannoy dealer who will be able to advise on appropriate action. If you require further assistance, then we ask you to deal directly with your local Tannoy distributor. If you cannot locate your distributor, please contact us directly:

Customer Services, Tannoy Ltd., Rosehall Industrial Estate, Coatbridge, North Lanarkshire, ML5 4TF, Scotland

Telephone: 01236 420199 (National)
+44 1236 420199 (International)

Fax: 01236 428230 (National)
+44 1236 428230 (International)

Email: enquiries@tannoy.com

DO NOT SHIP ANY PRODUCT TO TANNOY WITHOUT PREVIOUS AUTHORISATION

2 UNPACKING

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

Check carefully for any sign of transit damage. In this unlikely event, notify your shipping company and/ or dealer as soon as possible for advice.

It is recommended you store all the packaging to allow protected transport in future.

Ensure that the following accessories are present:

- 4 x self adhesive feet

3 WARNING - STRONG MAGNETIC FIELD

Due to the powerful drive unit magnet, do not place within 1 metre (3 foot) of a cathode ray tube (CRT) television or monitor. There is no issue with plasma and LCD devices.

4 CAUTION

These loudspeakers are capable of generating high sound levels over a sustained period of time. Because of their low levels of distortion, it is not always obvious that the sound level is high when working with them. Please be aware that exposure to excessive levels over a sustained period of time can lead to permanent hearing damage.

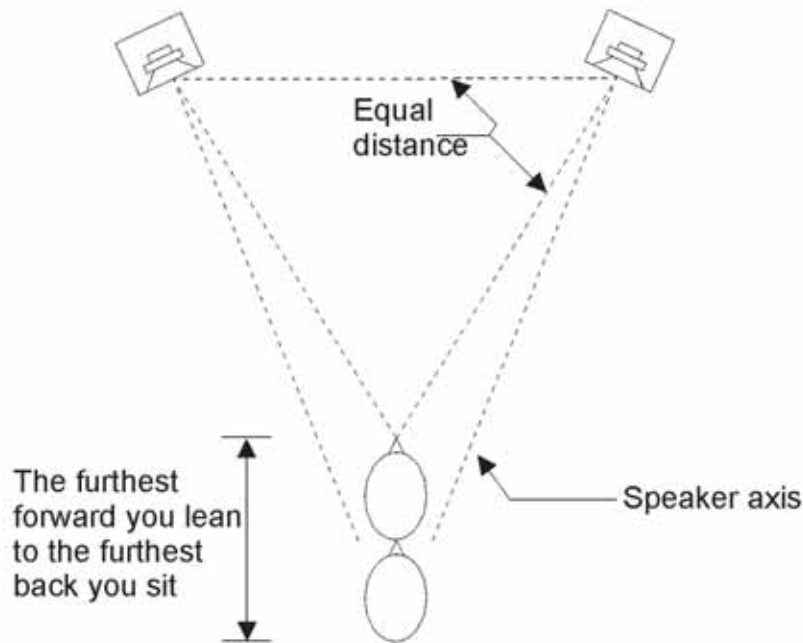
5 SELF ADHESIVE FEET

These can be applied to the underside of the loudspeaker enclosure for stability and to reduce vibration. Alternatively, various proprietary supports are available from your dealer.

6 POSITIONING

These loudspeakers are designed as near field monitors, positioned typically 0.75- 3 metres from the listener. They will typically be sited on the mixer metering bridge, or on a table either side of a smaller mixing desk or control surface. They may also be mounted on appropriate loudspeaker stands, which in terms of stability and vibration, will yield the best results.

In all cases however, they should be angled towards the listener, with the tweeter at ear height approximately. For best uniform dispersion, they should be mounted vertically, and not on their sides.



7 SURROUND MONITORING

In order to ensure a uniform acoustical environment, the room should be symmetrical about the centre loudspeaker axis; room treatments should be applied symmetrically throughout the room. Mixed "Live end/Dead end" environments should be avoided. If the lateral speakers are positioned close to walls then the constitution of the wall surfaces should be identical.

When using either Reveal 601p as the main effects speaker for the front soundstage, placement is a critical factor for good performance.

In all cases the centre channel speaker should be placed as close to the viewing screen as possible. The viewing position when seated determines the ideal mounting height, but in all cases this should be as close as possible to ear height, if this is not possible the monitor should be tilted towards ear height in the mix position. The centre speaker should be positioned along the centre axis of the picture and the left/ right monitors just outside the picture, ideally the three front effects speakers would be placed with the front baffles in line with the screen surface. If an acoustically transparent screen is used, the left/ right monitors should be placed just inside the edges of the picture. The surround speakers should be positioned at the same distance to the mix position as the main front speakers. As the subwoofer/ LFE channel only produces low frequencies it is difficult to localise its position by ear. As a result it could effectively be situated anywhere in the room, though optimum performance will be gained by placing the subwoofer in the same plane as the main front speakers. The LFE channel is set at a level 10dB higher than the other channels when mixing therefore it is important to apply the same in any playback situation.

8 AMPLIFIER MATCHING

Consult the Product Specification as this clearly shows the acceptable power range for amplifier matching to your speakers. The high peak power handling of Tannoy 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.

9 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 dependant on the physical properties of the cables connecting them to the amplifier.

Technically, we recommend two-core cable with cross section area not less than 1.5 square millimeters (1.5mm^2) for cable runs of up to 3 metres. For longer lengths you will require to use cable with a minimum cross sectional area of 2.5 square millimetres (2.5mm^2).

In addition always keep the cable runs the same length for each speaker, if possible. Cable construction can affect the sound quality. Be prepared to experiment to find a cable that suits your ear and audio system. We do not recommend the use of braided (Litz) or coaxial cables as these have a high capacitance that may affect the stability of certain amplifiers.

10 CONNECTING YOUR LOUDSPEAKERS

- To protect your speakers and amplifier from damage it is important to ensure that the amplifier is switched OFF prior to connecting or disconnecting any cabling.
- Correct polarity of the cable connections between the amplifier and speakers is essential.
- The positive (plus) terminal on the amplifier left channel (marked + or coloured red) must be connected to the positive (red) 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 (black) 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 operational.

11 CABINET CARE

The cabinet may be cleaned with a soft lint free cloth. The use of solvents or abrasive cleaners should be avoided.

12 TECHNICAL SPECIFICATION

LOUDSPEAKER	Reveal 601p
Frequency Response ⁽¹⁾	63Hz- 30kHz
Recommended Amplifier Power	50- 100W RMS into 8 Ohms
Power Handling	Average (2) 50W PMS Programme 100W
Nominal Impedance	8 ohm
Sensitivity SPL/ 1W @ 1m ⁽³⁾	89dB
Distortion	<0.6%
Crossover Frequency	2.3kHz
Dispersion	90 degrees
Drive Unit LF/ Mid	165mm (6.5") multi fibre pulp paper cone
Drive Unit HF	25mm (1") soft dome with neodymium magnet system
Magnetic Shielding	No
CABINET	
Low Frequency Alignment	Optimised front reflex loaded
Cabinet Construction	MDF cabinet with injection moulded front baffle
Cabinet Finish	Black fine texture
Cabinet Dimensions (HxWxD)	341 x 210 x 273mm (13.4 x 8.3 x 10.7")
Cabinet Weight	6.2kg (13.7lbs)
Shipping Dimensions (HxWxD)	468 x 302 x 366mm (18.4 x 11.9 x 14.4")
Shipping Weight	7.4kg (16.3lbs)

NOTES

(1) +/- 3dB measured at 1m in an anechoic chamber.

(2) Long term power handling capacity as defined in EIA standard RS426A.

(3) Averaged over specified bandwidth for half space environment

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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, which Tannoy reserve the right to alter without prior notice. Please verify the latest specifications with critical applications.

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Tannoy adopts a policy of continuous improvement and product specification is subject to change.

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