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OWNER'S MANUAL


TANNOY

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1 IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
 2. Keep these instructions.
 3. Heed all warnings.
 4. Follow all instructions.
 5. Do not use this apparatus near water.
 6. Clean only with dry cloth.
 7. Caution, do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
 11. Only use attachments/accessories specified by the manufacturer.
 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, please use caution when moving the cart/apparatus combination to avoid injury from tip-over.
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13. Unplug this apparatus during lightning storms or when unused for long periods of time.
 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped
 15. **WARNING:** To reduce the risk of fire or electric shock, this apparatus should not be exposed to rain or moisture and objects filled with liquids, such as vases, should not be placed on this apparatus.
 16. To completely disconnect this equipment from the mains, disconnect the power supply cord plug from the receptacle.
 17. The mains plug of the power supply cord shall remain readily operable



The lightning flash with arrowhead symbol within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



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

The below warning is located on the rear of the unit:

| | |
|----------------------------------|---|
| <h1>CAUTION</h1> | <h1>ATTENTION</h1> |
| BEFORE OPENING PULL MAIN PLUG | DEBRANCHER CORDON SECTEUR AVANT D'OUVRIR |

WARNING:

Voltages in this equipment are hazardous to life. No user-serviceable parts inside. Refer all servicing to qualified service personnel.

Check that the voltage rating displayed on the rear panel is correct for your area before connecting. If it is incorrect, please refer to your local dealer or authorised service agent. Use only with the detachable power cord supplied with the apparatus, or by your local distributor or dealer.

2 FUSE PROTECTION

A mains fuse is provided in the IEC power inlet on the back of this apparatus, which can only be removed with the power cord unplugged. This must be replaced by a fuse of the same type and rating (see Specifications or refer to rear panel).

3 IMPORTANT NOTICE FOR THE UNITED KINGDOM (CONNECTING THE PLUG AND CORD)

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

BLUE - NEUTRAL
BROWN - LIVE

As the colours of the wires in the mains cable may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

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

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

Make sure that neither wire is connected to the earth terminal of the three pin plug.

4 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.

5 ELECTROMAGNETIC COMPATIBILITY

This equipment has undergone safety and EMC testing, and complies with the European Low Voltage Directive 73/23/EEC and Electromagnetic Compatibility Directives 89/336/EEC and 2004/108/EC.

6 WARRANTY

No maintenance of the loudspeaker is necessary.

This equipment has been produced and tested with care and precision. It is built to give first class service and carries a 2 year warranty on the electronics and 5 years on the drive unit. 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.

If you suspect a problem with your loudspeaker, 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

7 UNPACKING

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:

- Mains cord appropriate to your country of use.
- 4 self adhesive feet

8 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.

9 SELF ADHESIVE FEET

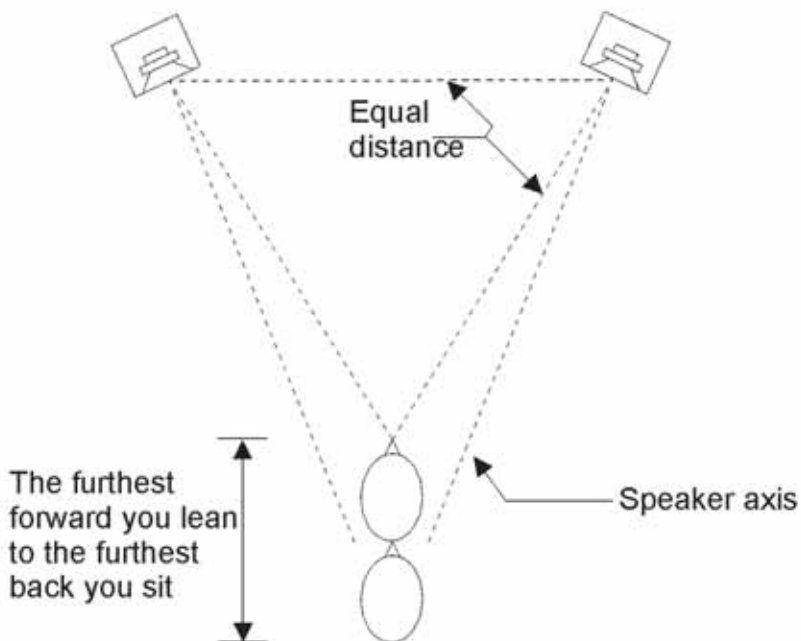
These can be applied to the underside of the loudspeaker enclosure for stability and to reduce vibration. Alternatively, various proprietary supports are available from your dealer.

10 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.



11 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 501a or 601a 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

12 CONNECTING YOUR SPEAKERS

ALWAYS MAKE AND CHECK ALL CONNECTIONS BEFORE PLUGGING YOUR MONITORS INTO THE MAINS.

Line level input may be by either XLR (balanced) or jack plug (unbalanced). XLR pinouts are: 2= +ve (hot), 3= -ve (cold) and 1= screen or signal ground. The XLR input may also be used for unbalanced operation, by connecting pins 3 and 1 together.

13 USER CONTROLS

The rear mounted volume control allows for matching to your mixing desk or other equipment. It will also allow you to adjust the relative levels between speakers in a surround system, to allow for positioning.

The HF trim control adjusts the tweeter volume from 2.3kHz upwards, and should be normally set to the 0dB position. For a bright environment, set to the -1.5dB position, and for a dull one, use the +1.5dB setting.

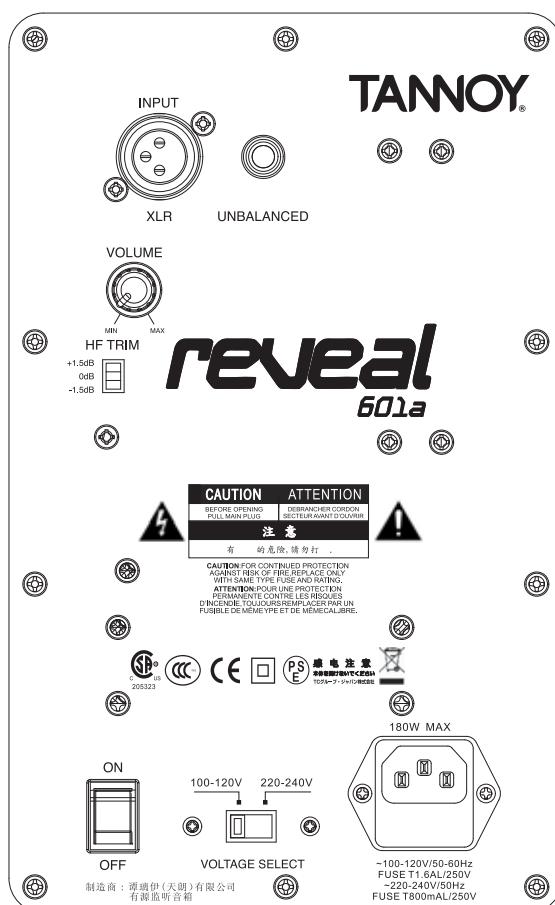
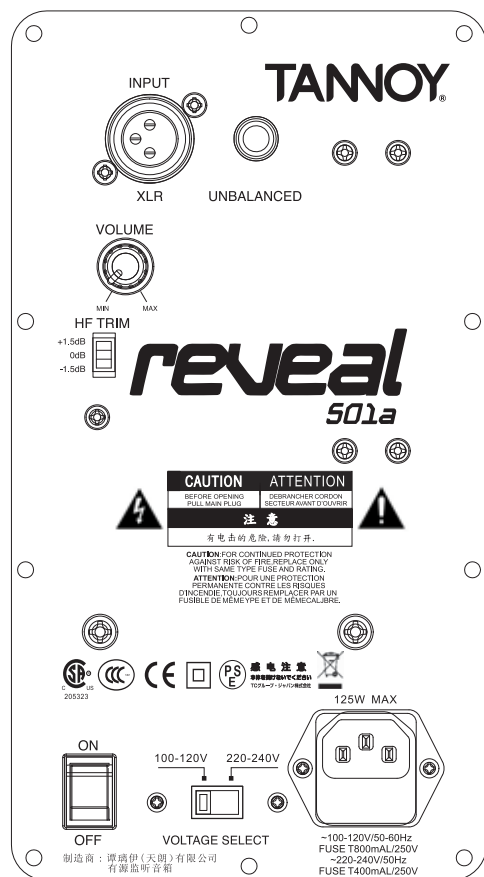
14 CABINET CARE

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

15 AMP PANELS

Reveal 501a

Reveal 601a



16 SPECIFICATIONS

| SYSTEM | Reveal 501a | Reveal 601a |
|-----------------------------------|--|--|
| Frequency Response ⁽¹⁾ | 64Hz- 30kHz | 60Hz- 30kHz |
| Maximum SPL ⁽²⁾ | 108dB | 111dB |
| Distortion | <0.7% | <0.5% |
| Dispersion (-6dB) | 90 degrees | 90 degrees |
| Drive Unit LF/ Mid cone | 130mm (5") multi fibre pulp paper cone | 165mm (6.5") multi fibre pulp paper cone |
| Drive Unit HF | 25mm (1") soft dome with neodymium magnet system | 25mm (1") soft dome with neodymium magnet system |
| Magnetic Shielding | No | No |

ELECTRONIC SECTION

| | | |
|------------------------|---|---|
| Input Impedance | XLR balanced & unbalanced Jack 10 kOhms | XLR balanced & unbalanced Jack 10 kOhms |
| Input Sensitivity | 0.775V RMS for full output | 0.775V RMS for full output |
| Crossover Frequency | 2.3kHz | 2.3kHz |
| Amplifier Output Power | LF 40W RMS, HF 20W RMS | LF 60W RMS, HF 30W RMS |
| User Controls | Power On/ Off, Input Sensitivity HF Trim +/- 1.5dB from 2.3kHz | Power On/ Off, Input Sensitivity HF Trim +/- 1.5dB from 2.3kHz |
| Power Supply | 100- 120V, 200- 240V Switchable, 50- 60Hz | 100- 120V, 200- 240V Switchable, 50- 60Hz |
| Power Consumption | 125W Maximum | 180W Maximum |
| Fuse | 100- 120V, T800mAL 250V 220- 240V, T400mAL 250V | 100- 120V T1.6AL 250V 220- 240V T800mAL 240V |

CABINET

| | | |
|-----------------------------|---|---|
| Low Frequency Alignment | Optimised front reflex loaded | Optimised front reflex loaded |
| Cabinet Construction | MDF cabinet with injection moulded front baffle | MDF cabinet with injection moulded front baffle |
| Cabinet Finish | Black fine texture | Black fine texture |
| Cabinet Dimensions (HxWxD) | 301 x 185 x 238mm (11.9 x 7.3 x 9.4") | 341 x 210 x 273mm (13.4 x 8.3 x 10.7") |
| Cabinet Weight | 5.7kg (12.6lbs) | 8.3kg (18.3lbs) |
| Shipping Dimensions (HxWxD) | 418 x 266 x 321mm (16.5 x 10.5 x 12.6") | 468 x 302 x 366mm (18.4 x 11.9 x 14.4") |
| Shipping Weight | 7.1kg (15.7lbs) | 9.7kg (21.4lbs) |

NOTES

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

(2) Peak SPL at mix position for 1 pair driven.

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.

17 DECLARATION OF CONFORMITY

The following apparatus is/are manufactured in China by Tannoy Ltd of Rosehall Industrial Estate, Coatbridge, Scotland, ML5 4TF. The following equipment is marked with the CE label and conform(s) to the protection requirements of the European Electromagnetic Compatibility Standards and Directives. The apparatus is designed and constructed such that electromagnetic disturbances generated do not exceed levels allowing radio and telecommunications equipment and other apparatus to operate as intended, and, the apparatus has an adequate level of intrinsic immunity to electromagnetic disturbance to enable operation as specified and intended.

Details of the Apparatus: Reveal 501a Studio Monitor
Reveal 601a Studio Monitor

The equipment listed above is covered by this certificate and marked with the CE- label, conforms to the following standards:

| | |
|-------------------------|---|
| EN 60065 (IEC 60065) | Safety requirements for mains operated electronic apparatus for household and similar general use. |
| EN 55013 | Sound and television broadcast receivers and associated equipment. Radio disturbance characteristics, limits and methods of measurement. |
| EN 55020 | Sound and television broadcast receivers and associated equipment. Immunity characteristics, limits and methods of measurement. |

With reference to regulations in following directives:
73/23/EEC, 89/336/EEC and 2004/108/EC



Name: Philippe Robineau
Position: Director of Engineering

Date: 15/12/2009

For Tannoy Ltd.

TANNOY

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| | | |
|------------------------|--------------------------|-----------------------------------|
| Tannoy United Kingdom | T: 00 44 (0) 1236 420199 | E: enquiries@tannoy.com |
| Tannoy Deutschland | T: 00 49 (180) 1111 881 | E: anfragen@tannoy.com |
| TC Group International | T: 00 45 8742 7000 | E: info@tcgroup-international.com |
| TC Group Americas | T: 00 1 (519) 745 1158 | E: info@tcgroup-americas.com |



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

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