MODEL:

**TBUS-201xl**
Pop-up Table Connection Bus

P/N: 2900-300292 Rev 2
**TBUS-201xl Quick Start Guide**

This guide helps you install and use your product for the first time. For more detailed information, go to [http://bit.ly/k-prod-downloads](http://bit.ly/k-prod-downloads) to download the latest manual or scan the QR code on the left.

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**Step 1: Check what’s in the box**

- TBUS-201xl Dual Pop-up Table Connection Bus
- 2 table clamps
- 1 cut out template
- 1 quick start guide

Save the original box and packaging materials in case you need to return your product for service.

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**Step 2: Prepare the TBUS-201xl for mounting**

Install the required power socket.

*Note that the power socket is purchased separately.*

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**Step 3: Prepare the table for mounting**

Cut out an opening in the table using the cut out template.

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**Step 4: Install the TBUS-201xl to the table**

Insert the unit through the table opening.

Mount the Brackets, secure the unit to the table and connect the cables.
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1 Introduction

Welcome to Kramer Electronics! Since 1981, Kramer Electronics has been providing a world of unique, creative, and affordable solutions to the vast range of problems that confront video, audio, presentation, and broadcasting professionals on a daily basis. In recent years, we have redesigned and upgraded most of our line, making the best even better!

Our 1,000-plus different models now appear in 14 groups that are clearly defined by function: GROUP 1: Distribution Amplifiers; GROUP 2: Switchers and Routers; GROUP 3: Control Systems; GROUP 4: Format/Standards Converters; GROUP 5: Range Extenders and Repeaters; GROUP 6: Specialty AV Products; GROUP 7: Scan Converters and Scalers; GROUP 8: Cables and Connectors; GROUP 9: Room Connectivity; GROUP 10: Accessories and Rack Adapters; GROUP 11: Sierra Video Products; GROUP 12: Digital Signage; GROUP 13: Audio; and GROUP 14: Collaboration.

Thank you for purchasing the Kramer TBUS-201xl Pop-up Table Connection Bus, which is ideal for boardrooms, conference and training rooms!
2 Getting Started

We recommend that you:

- Unpack the equipment carefully and save the original box and packaging materials for possible future shipment
- Review the contents of this user manual

Go to http://www.kramerelectronics.com/support/product_downloads.asp to check for up-to-date user manuals, application programs, and to check if firmware upgrades are available (where appropriate).

2.1 Achieving the Best Performance

To achieve the best performance:

- Use only good quality connection cables (we recommend Kramer high-performance, high-resolution cables) to avoid interference, deterioration in signal quality due to poor matching, and elevated noise levels (often associated with low quality cables)
- Do not secure the cables in tight bundles or roll the slack into tight coils
- Avoid interference from neighboring electrical appliances that may adversely influence signal quality
- Position your Kramer TBUS-201xl away from moisture, excessive sunlight and dust

This equipment is to be used only inside a building. It may only be connected to other equipment that is installed inside a building.

Do not place heavy objects on top of the TBUS-201xl.
2.1 Recycling Kramer Products

The Waste Electrical and Electronic Equipment (WEEE) Directive 2002/96/EC aims to reduce the amount of WEEE sent for disposal to landfill or incineration by requiring it to be collected and recycled. To comply with the WEEE Directive, Kramer Electronics has made arrangements with the European Advanced Recycling Network (EARN) and will cover any costs of treatment, recycling and recovery of waste Kramer Electronics branded equipment on arrival at the EARN facility. For details of Kramer’s recycling arrangements in your particular country go to our recycling pages at http://www.kramerelectronics.com/support/recycling/.
3 Overview

The TBUS-201xl is a furniture-mounted pop-up connection bus that is easily installed into a table or podium top. The TBUS-201xl interface enables you to connect any equipment to systems installed in a room via the following pass-through connectors:

- 1 PC on a 15-pin HD connector
- 1 HDMI connector
- 1 stereo audio on a 3.5mm connector
- 1 Ethernet RJ-45 connector

When not in use, you can lower the TBUS-201xl flush into the table. The example in Figure 1 shows the TBUS-201xl in a table or podium top with a universal power socket.

![Figure 1: TBUS-201xl Pop-up Table Connection Bus](image)

In addition, the TBUS-201xl is:

- Easily opened and closed by pressing down gently on the lid due to its tilting angular construction, pneumatic lift and mechanical latching mechanism. It can be raised (when in use) or lowered (when not in use)
- Suitable for any of the following power sockets: for the USA, the UK, Germany (the Europlug), Belgium-France, Switzerland, Italy, Australia, Brazil, Israel, South Africa or “Universal” for use anywhere (see compatibility restrictions in Section 4.2)

Order the power sockets separately from Kramer Electronics
## Figure 2: Defining the Parts of the TBUS-201xl Pop-up Table Connection Bus

<table>
<thead>
<tr>
<th>#</th>
<th>Feature</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Black anodized or brushed anodized aluminum semi-automatic lid</td>
<td>Covers the connecting surface, leaving the table surface neat and tidy</td>
</tr>
<tr>
<td>2</td>
<td>Connecting Surface</td>
<td>See Section 4.1</td>
</tr>
<tr>
<td>3</td>
<td>Outer Rim</td>
<td>Fits over the table surface</td>
</tr>
<tr>
<td>4</td>
<td>Mini Latch</td>
<td>Enables the closing and opening of the lid by slightly pressing it</td>
</tr>
<tr>
<td>5</td>
<td>Mounting Clamp Plates</td>
<td>For holding the clamps</td>
</tr>
<tr>
<td>#</td>
<td>Feature</td>
<td>Function</td>
</tr>
<tr>
<td>----</td>
<td>--------------------------------</td>
<td>--------------------------------------------------------------------------</td>
</tr>
<tr>
<td>6</td>
<td>Mounting Clamp Slits (four sets on each side)</td>
<td>Insert the mounting clamps to the slits when installing the TBUS-201xl</td>
</tr>
<tr>
<td>7</td>
<td>Rubber Protectors (2)</td>
<td>To ensure soft tightening to the table underside</td>
</tr>
<tr>
<td>8</td>
<td>Mounting Screws (2)</td>
<td>For securing the TBUS-201xl to the table</td>
</tr>
<tr>
<td>9</td>
<td>Locking Butterfly Nuts (2)</td>
<td>Tighten to lock the mounting butterfly screw</td>
</tr>
<tr>
<td>10</td>
<td>Mounting Butterfly Nuts (2)</td>
<td>Tighten to secure the unit to the table surface</td>
</tr>
<tr>
<td>11</td>
<td>Mounting Clamps (2 units)</td>
<td>Place in the clamp slits after inserting the enclosure into the table – for securing the unit to the table surface</td>
</tr>
<tr>
<td>12</td>
<td>Power Connector Lock</td>
<td>Secures the power cable so it does not accidently disconnect when opening the lid</td>
</tr>
<tr>
<td>13</td>
<td>Pneumatic Piston</td>
<td>Enables automatic lifting and smooth closing of the lid</td>
</tr>
<tr>
<td>14</td>
<td>Power Socket Opening Screw Holes (4)</td>
<td>For installing/replacing the power socket</td>
</tr>
</tbody>
</table>

## 4.1 The TBUS-201xl Connecting Surface

Figure 3 defines the connecting surface and includes the universal power socket (sold separately) for illustration purposes only (note that although ‘TBUS-201’ is printed on the panel, the name of the modular product is **TBUS-201xl**):

![Figure 3: TBUS-201xl Connecting Surface](image)

<table>
<thead>
<tr>
<th>#</th>
<th>Feature</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HDMI Connector</td>
<td>Connect to an HDMI source</td>
</tr>
<tr>
<td>2</td>
<td>PC 15-pin HD Connector</td>
<td>Connect to a computer graphics source</td>
</tr>
<tr>
<td>3</td>
<td>AUDIO 3.5mm Mini Jack</td>
<td>Connects to an unbalanced stereo audio source</td>
</tr>
</tbody>
</table>
### 4.2 Power Socket Options

A choice of power sockets is available for purchase in several versions, including power sockets for the USA, Brazil, Germany (the Europlug), UK, Switzerland, Belgium-France, Italy, South Africa, Israel and Australia. A “Universal” socket for general use is also available (see the compatibility restrictions in the table below).

Note that the photos below are for illustration purposes only.

<table>
<thead>
<tr>
<th>Power Socket Type</th>
<th>Power Specs</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Universal: TS-201U (80-000043)</td>
<td>100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet</td>
<td>Fully compatible with power plugs in the UK, India, Italy and Denmark, as well as with the 2-prong Europlug. Partially compatible (if the polarity is reversed) with plugs in China, Switzerland, Israel and the USA. The universal socket does not supply grounding to plugs in Central Europe and France and so you should order country specific sockets instead. Not compatible with South African plugs.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Power Socket Type</th>
<th>Power Specs</th>
<th>Power Socket Type</th>
<th>Power Specs</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA: TS-201US (80-000046)</td>
<td>100-125V AC, 50/60Hz, 5A Maximum 5A per power outlet</td>
<td>Italy: TS-201IT (80-000047)</td>
<td>100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet</td>
</tr>
<tr>
<td>Germany and EU: TS-201DE (80-000044)</td>
<td>100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet</td>
<td>Australia: TS-201AU (80-000050)</td>
<td>100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet</td>
</tr>
<tr>
<td>Belgium and France: TS-201FR (80-000045)</td>
<td>100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet</td>
<td>Israel: TS-201IL (80-000053)</td>
<td>100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet</td>
</tr>
<tr>
<td>Power Socket Type</td>
<td>Power Specs</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>-------------------</td>
<td>----------------------------</td>
<td>--------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>South Africa</td>
<td>TS-201ZA (80-000052)</td>
<td>100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet</td>
<td></td>
</tr>
<tr>
<td>Brazil</td>
<td>TS-201BR (80-000051)</td>
<td>100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet</td>
<td></td>
</tr>
<tr>
<td>Switzerland</td>
<td>TS-201CH (80-000049)</td>
<td>100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet</td>
<td></td>
</tr>
<tr>
<td>England</td>
<td>TS-201GB (80-000048)</td>
<td>100-240V AC, 50/60Hz, 5A Maximum 5A per power outlet</td>
<td></td>
</tr>
</tbody>
</table>
5  Installing the TBUS-201xl

To install the TBUS-201xl perform the following steps:

1. Cut an opening in the table (see Section 5.1).

2. Install the power socket (see Section 5.2).

3. Insert the TBUS-201xl through the cut-out opening (see Section 5.3).

4. Connect the cables (see Section 5.4).

5.1 Cutting an Opening

The metal cutout template (supplied) defines the surface you have to cut out to install your TBUS-201xl.

The thickness of the table should be 3in (76mm) or less.

To cut an opening in the table:

1. Before cutting the opening, confirm the dimensions of the cutout template and make sure that they have not changed.

2. Place the included cut out template (that is included with your TBUS-201xl) on the surface of the table exactly where you want to install the TBUS-201xl.

3. Attach the template to the table with the included screws (if using the cut out template).

4. Following the inside edge of the template, cut a hole in the table surface with a sabre or keyhole saw according to the dimensions shown in Figure 4 (not to scale).
5. Unscrew and remove the template from the surface of the table and clean the table surface.
   Take care not to damage the table.
   If needed, you can download a full-scale template from our Web site.

   Kramer Electronics is not responsible for any damage caused to the table.
5.2 Installing the Power Socket

Figure 5 shows an example of the Universal power socket housing which is one of the optional power sockets for the TBUS-201xl, see Section 4.2.

To install the power socket:

1. Close the TBUS-201xl lid.

2. Carefully insert the power socket housing so that the power socket fits into the power socket opening on the connecting surface and the four standoffs fit the four screw holes on the TBUS-201xl. When positioned correctly, the IEC socket faces downwards.

3. Screw the four screws included in the power socket kit into the designated holes to fix the power socket housing in place (see Figure 6).
4. Unscrew the power connector lock.

5. Connect the IEC power cord to the IEC socket.

6. Insert the power cord into the power connector lock and tighten the screw (see Figure 2, item 12) to secure the power cable.

5.3 Inserting the TBUS-201xl through the Cut-Out Opening

To install the TBUS-201xl, do the following:

1. Carefully insert the unit into the prepared opening.

2. Take the support clamps under the table and place them into the support clamp late slits at the desired height (on both the front and rear sides of the unit).

3. Make sure that the upper outer rim is situated parallel to the edge of the table.

4. Insert the mounting screws through the holes in the mounting clamps. Tighten the mounting butterfly nuts to secure the unit to the table surface and then lock with the mounting butterfly screw.

5.4 Connecting the Cables

1. Connect the appropriate cables from underneath.

2. Secure the cables. Do not keep the cord too tight or too loose.

Once you have connected the unit to the mains power and connected the proper cables, you may use the unit.
## Technical Specifications

### PORTS:
1 HDMI connector, 1 Ethernet RJ-45 connector, 1 15-pin HD connector, 1 3.5mm mini jack

### POWER SOURCE
(AC power limits):
- **Power Socket Assemblies**
  - **Universal**: 100-240V AC, 50/60Hz, 5A
    - Maximum 5A per power outlet

  **Fully compatible** with power plugs in the UK, India, Italy and Denmark, as well as with the 2-prong Europlug.

  **Partially compatible** (if the polarity is reversed) with plugs in China, Switzerland, Israel and the USA. The universal socket does not supply grounding to plugs in Central Europe and France (you should order country specific sockets instead).

  **Not compatible** with South African plugs.

<table>
<thead>
<tr>
<th>Country</th>
<th>Power Source</th>
<th>Voltage</th>
<th>Frequency</th>
<th>Amperage</th>
<th>Per Power Outlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA</td>
<td>100-240V AC, 50/60Hz, 5A</td>
<td>100-240V</td>
<td>50/60Hz</td>
<td>5A</td>
<td>5A</td>
</tr>
<tr>
<td>Germany and EU</td>
<td>100-240V AC, 50/60Hz, 5A</td>
<td>100-240V</td>
<td>50/60Hz</td>
<td>5A</td>
<td>5A</td>
</tr>
<tr>
<td>Belgium and France</td>
<td>100-240V AC, 50/60Hz, 5A</td>
<td>100-240V</td>
<td>50/60Hz</td>
<td>5A</td>
<td>5A</td>
</tr>
<tr>
<td>Italy</td>
<td>100-240V AC, 50/60Hz, 5A</td>
<td>100-240V</td>
<td>50/60Hz</td>
<td>5A</td>
<td>5A</td>
</tr>
<tr>
<td>Australia</td>
<td>100-240V AC, 50/60Hz, 5A</td>
<td>100-240V</td>
<td>50/60Hz</td>
<td>5A</td>
<td>5A</td>
</tr>
<tr>
<td>Israel</td>
<td>220V AC, 50/60Hz, 5A</td>
<td>220V</td>
<td>50/60Hz</td>
<td>5A</td>
<td>5A</td>
</tr>
<tr>
<td>South Africa</td>
<td>220V AC, 50/60Hz, 5A</td>
<td>220V</td>
<td>50/60Hz</td>
<td>5A</td>
<td>5A</td>
</tr>
<tr>
<td>Switzerland</td>
<td>220V AC, 50/60Hz, 5A</td>
<td>220V</td>
<td>50/60Hz</td>
<td>5A</td>
<td>5A</td>
</tr>
<tr>
<td>England</td>
<td>220V AC, 50/60Hz, 5A</td>
<td>220V</td>
<td>50/60Hz</td>
<td>5A</td>
<td>5A</td>
</tr>
<tr>
<td>Brazil</td>
<td>220V AC, 50/60Hz, 5A</td>
<td>220V</td>
<td>50/60Hz</td>
<td>5A</td>
<td>5A</td>
</tr>
</tbody>
</table>

### FUSE RATING:
- **T 6.3A 250V**

### OPERATING TEMPERATURE RANGE:
-5 to +45 Deg. Centigrade

### OPERATING HUMIDITY RANGE:
10 to 90% RHL, non-condensing

### STORAGE TEMPERATURE RANGE:
-20 to +70 Deg. C.

### STORAGE HUMIDITY RANGE:
5 to 95% RHL, non-condensing

### DIMENSIONS:
- Including the outer rim: 14.5cm x 13.2cm x 17.3cm (5.71” x 5.2” x 6.81”) W, D, H
- Without the outer rim: 13.3cm x 12.0cm x 17.3cm (5.24” x 4.72” x 6.81”) W, D, H

### WEIGHT:
- 0.85kg (1.87lbs) approx.
- 1.2kg (2.65lbs) approx. with mounting brackets
- 1.4 kg (3.1lbs) approx. packed product

### ACCESSORIES:
- Cut out metal template

### OPTIONS:
- Power socket kits, power cord

Specifications are subject to change without notice at [http://www.kramerelectronics.com](http://www.kramerelectronics.com)
LIMITED WARRANTY

The warranty obligations of Kramer Electronics for this product are limited to the terms set forth below:

What is Covered

This limited warranty covers defects in materials and workmanship in this product.

What is Not Covered

This limited warranty does not cover any damage, deterioration or malfunction resulting from any alteration, modification, improper or unreasonable use or maintenance, misuse, abuse, accident, neglect, exposure to excess moisture, fire, improper packing and shipping (such claims must be presented to the carrier), lightning, power surges, or other acts of nature. This limited warranty does not cover any damage, deterioration or malfunction resulting from the installation or removal of this product from any installation, any repairs attempted by anyone unauthorized by Kramer Electronics to make such repairs, or any other cause which does not relate directly to a defect in materials and/or workmanship of this product. This limited warranty does not cover cartons, equipment enclosures, cables or accessories used in conjunction with this product.

Without limiting any other exclusion herein, Kramer Electronics does not warrant that the product covered hereby, including, without limitation, the technology and/or integrated circuit(s) included in the product, will not become obsolete or that such items are or will remain compatible with any other product or technology with which the product may be used.

How Long Does this Coverage Last

Seven years as of this printing, please check our Web site for the most current and accurate warranty information.

Who is Covered

Only the original purchaser of this product is covered under this limited warranty. This limited warranty is not transferable to subsequent purchasers or owners of this product.

What Kramer Electronics will do

Kramer Electronics will, at its sole option, provide one of the following three remedies to whatever extent it shall deem necessary to satisfy a proper claim under this limited warranty:

1. Elect to repair or facilitate the repair of any defective parts within a reasonable period of time, free of any charge for the necessary parts and labor to complete the repair and restore this product to its proper operating condition. Kramer Electronics will also pay the shipping costs necessary to return this product once the repair is complete.

2. Replace this product with a direct replacement or with a similar product deemed by Kramer Electronics to perform substantially the same function as the original product.

3. Issue a refund of the original purchase price less depreciation to be determined based on the age of the product at the time remedy is sought under this limited warranty.

What Kramer Electronics will not do Under This Limited Warranty

If this product is returned to Kramer Electronics or the authorized dealer from which it was purchased or any other party authorized to repair, return or repair products, this product must be returned insured during shipment, with the insurance and shipping charges prepaid by you. If this product is returned uninsured, you assume all risks of loss or damage during shipment. Kramer Electronics will not be responsible for any costs related to the removal or re-installation of this product from or into any installation. Kramer Electronics will not be responsible for any costs related to any setting up this product, any adjustment of user controls or any programming required for a specific installation of this product.

How to Obtain a Remedy under this Limited Warranty

To obtain a remedy under this limited warranty, you must contact either the authorized Kramer Electronics reseller from whom you purchased this product or the Kramer Electronics office nearest you. For a list of authorized Kramer Electronics resellers and/or authorized service providers, please visit our web site at www.kramerelectronics.com or contact the Kramer Electronics office nearest you.

In order to pursue any remedy under this limited warranty, you must possess an original, dated receipt as proof of purchase from an authorized Kramer Electronics reseller. If this product is returned under this limited warranty, a return authorization number, obtained from Kramer Electronics, will be required. You may also be directed to an authorized reseller or a person authorized by Kramer Electronics to repair the product.

If it is decided that this product should be returned directly to Kramer Electronics, this product should be properly packed, preferably in the original carton, for shipping. Cartons not bearing a return authorization number will be refused.

Limitation of Liability

THE MAXIMUM LIABILITY OF KRAMER ELECTRONICS UNDER THIS LIMITED WARRANTY SHALL NOT EXCEED THE ACTUAL PURCHASE PRICE PAID FOR THE PRODUCT. TO THE MAXIMUM EXTENT PERMITTED BY LAW, KRAMER ELECTRONICS IS NOT RESPONSIBLE FOR DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF WARRANTY OR CONDITION, OR UNDER ANY OTHER LEGAL THEORY. Some countries, districts or states do not allow the exclusion of liability for consequential damages, so the above limitations or exclusions may not apply to you.

Exclusive Remedy

TO THE MAXIMUM EXTENT PERMITTED BY LAW, THIS LIMITED WARRANTY AND THE REMEDIES SET FORTH ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, REMEDIES AND CONDITIONS, WHETHER ORAL OR WRITTEN, EXPRESS OR IMPLIED, TO THE MAXIMUM EXTENT PERMITTED BY LAW, KRAMER ELECTRONICS SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IF KRAMER ELECTRONICS CANNOT LAWFULLY DISCLAIM OR EXCLUDE IMPLIED WARRANTIES UNDER APPLICABLE LAW, THEN ALL IMPLIED WARRANTIES COVERING THIS PRODUCT, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL APPLY TO THIS PRODUCT AS PROVIDED UNDER APPLICABLE LAW.

If any product to which this limited warranty applies is a “consumer product” under the Magnuson-Moss Warranty Act (15 U.S.C. $2301, et seq.) or other applicable law, the foregoing disclaimer of implied warranties shall not apply to you, and all implied warranties on this product, including warranties of merchantability and fitness for the particular purpose, shall apply as provided under applicable law.

Other Conditions

This limited warranty gives you specific legal rights, and you may have other rights which vary from country to country or state to state.

This limited warranty is void if (i) the label bearing the serial number of this product has been removed or defaced, (ii) the product is not distributed by Kramer Electronics or (iii) this product is not purchased from an authorized Kramer Electronics reseller. If you are unsure whether a reseller is an authorized Kramer Electronics reseller, please visit our web site at www.kramerelectronics.com or contact a Kramer Electronics office.

Your rights under this limited warranty are not diminished if you do not complete and return the product registration form or complete and submit the online product registration form. Kramer Electronics thanks you for purchasing a Kramer Electronics product. We hope it will give you years of satisfaction.
For the latest information on our products and a list of Kramer distributors, visit our Web site where updates to this user manual may be found.

We welcome your questions, comments, and feedback. Web site: www.kramerelectronics.com E-mail: info@kramerel.com

SAFETY WARNING

The voltage rating on the mains output receptacle is in accordance with the country's mains voltage to which the device is connected. Do not connect devices to this machine that do not operate in compliance with the country's mains voltage.

SAFETY WARNING

Disconnect the unit from the power supply before opening and servicing.

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