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› Ashly TM-360 Public Address Mixer/Amplifier User Manual

## Ashly TM-360

# Ashly TM-360 Public Address Mixer/Amplifier User Manual

Model: TM-360

## INTRODUCTION

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This manual provides essential information for the proper installation, operation, and maintenance of your Ashly TM-360 Public Address Mixer/Amplifier. The TM-360 is a 60-watt, 3-input mixer/amplifier designed for public address applications, featuring transformer-isolated constant-voltage and 4 Ohm outputs. Please read this manual thoroughly before using the product to ensure optimal performance and safety.

## SAFETY INFORMATION

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Always follow basic safety precautions when using electrical products to reduce the risk of fire, electric shock, and injury to persons. This includes, but is not limited to:

- Read all instructions before operating the appliance.
- Do not use this apparatus near water.
- Clean only with a dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 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.
- Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- 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.

**WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

## PRODUCT OVERVIEW

The Ashly TM-360 is a versatile public address mixer/amplifier designed for various sound reinforcement needs. Key features include:

- 3 microphone inputs for versatile audio source connectivity.
- 60-watt speaker output capable of driving 4 ohm, 8 ohm, 70 volt, or 25 volt speakers.
- Zone 2 output capable of driving external amplifiers, or a 1-watt 8 ohm speaker.
- Two-band EQ for master output for tone shaping.
- Easy-to-use controls located on the front panel for convenient operation.

## SETUP

### Rear Panel Connections

The rear panel of the TM-360 provides all necessary connections for power, audio inputs, and speaker outputs. Refer to the image below for a visual guide.



**Figure 1:** Ashly TM-360 Rear Panel Layout. This image displays the AC input, amplifier output terminals, Zone 2 output, mix configuration switches, input gain controls, and various audio input jacks (RCA and terminal blocks).

- **AC INPUT (120V~ 60Hz, 24W):** Connect the provided power cord here. Ensure the voltage matches your local power supply.
- **AMPLIFIER OUTPUT 60W:** This terminal block provides the main speaker output.
  - **COM:** Common ground connection.
  - **4Ω:** For 4 Ohm speakers.
  - **16V OPT, 25V, 70V, 11Ω, 8Ω:** Various constant voltage and low impedance output options. Connect speakers according to their impedance and desired voltage. The "LINK" terminal is for linking multiple units.
- **ZONE 2 OUT:** This output provides a secondary audio feed.
  - **PRE OUT LOW Z BAL 600Ω:** Balanced low impedance pre-output for connecting to external amplifiers.
  - **1W 8Ω:** For connecting a single 1-watt, 8 Ohm speaker directly.
- **INPUT 1 (LINE/MIC):** Features a terminal block for balanced line or microphone input. Includes a gain control knob (-10 to +50 dB) and a priority over Input 2 and 3.
- **INPUT 2 (RCA/Terminal Block):** Offers both RCA and terminal block connections. Includes a gain control knob (-10 to +10 dB) and priority over Input 3.
- **INPUT 3 (RCA):** RCA input connection. Includes a gain control knob (-10 to +10 dB).
- **MANUAL MUTE (CONTACT CLOSURE):** Terminal block for external control.
  - **1 & G = INPUT 1 TRIG:** Triggers Input 1.
  - **G & 2 = MASTER SYSTEM STANDBY:** Puts the entire system into standby mode.

## Mix Configuration Switch Settings

The TM-360 features a set of DIP switches on the rear panel to configure various mixing and input behaviors. These switches are labeled 1 through 8 under "MIX CONFIGURATION".



**Figure 2:** Mix Configuration Switch Settings. This image highlights the DIP switches and their corresponding functions for Zone 2 assignment, VOX trigger, mute, low cut, and phantom power.

**Table 1: Mix Configuration Switch Settings**

Switch	Function	OFF Position	ON Position
1	Zone 2 Assign IN 1	Input 1 not assigned to Zone 2	Input 1 assigned to Zone 2
2	Zone 2 Assign IN 2	Input 2 not assigned to Zone 2	Input 2 assigned to Zone 2
3	Zone 2 Assign IN 3	Input 3 not assigned to Zone 2	Input 3 assigned to Zone 2
4	VOX Trig IN 1	VOX trigger for Input 1 disabled	VOX trigger for Input 1 enabled
5	VOX Trig IN 2	VOX trigger for Input 2 disabled	VOX trigger for Input 2 enabled
6	MUTE LINK 2&3	Inputs 2 & 3 not linked for mute	Inputs 2 & 3 linked for mute
7	LOW CUT	Low cut filter disabled	Low cut filter enabled
8	CH 1 MIC PHANTOM	Phantom power for Input 1 disabled	Phantom power for Input 1 enabled

**Note:** Adjust these switches with the unit powered off to prevent unexpected audio behavior.

## OPERATING INSTRUCTIONS

### Basic Operation

- Power On:** Ensure all connections are secure before plugging the unit into an AC outlet. The unit will power on automatically.
- Input Connection:** Connect your audio sources (microphones, line-level devices) to the appropriate input jacks (Input 1, 2, or 3) on the rear panel.
- Speaker Connection:** Connect your speakers to the AMPLIFIER OUTPUT terminal block, matching the impedance and voltage settings. For Zone 2, connect either an external amplifier or a 1W 8Ω speaker.
- Adjust Input Gain:** Use the GAIN knobs for each input to set the appropriate input level. Start with the gain at minimum and slowly increase until the desired level is achieved without distortion.
- Adjust Master Output:** Use the master volume control (typically on the front panel, though not detailed in the provided image) to set the overall output level.
- Adjust Zone 2 Level:** Use the ZONE 2 LEVEL knob on the rear panel to control the output level for Zone 2.

### Input Gain Adjustment

Each input (Input 1, Input 2, Input 3) has a dedicated gain control knob on the rear panel. These knobs allow you to match

the input sensitivity of the amplifier to the output level of your audio source.

- **Input 1 Gain:** Adjustable from -10 dB to +50 dB, suitable for both line and microphone levels. Input 1 has priority over Input 2 and Input 3.
- **Input 2 Gain:** Adjustable from -10 dB to +10 dB. Input 2 has priority over Input 3.
- **Input 3 Gain:** Adjustable from -10 dB to +10 dB.

To set the gain, start with the knob fully counter-clockwise (minimum gain). Play your audio source at its typical operating level and slowly turn the gain knob clockwise until the signal is clear and strong without clipping or distortion. If a signal is too hot even at minimum gain, consider using an attenuator or a different input.

## Zone 2 Level Control

The ZONE 2 LEVEL knob controls the output volume for the Zone 2 output. This allows for independent volume adjustment of the secondary audio zone. Turn the knob clockwise to increase the level and counter-clockwise to decrease it. The range is from OFF to MAX.

## Manual Mute Function

The MANUAL MUTE terminal block allows for external control of muting functions via contact closure.

- **1 & G = INPUT 1 TRIG:** Connecting a contact closure between terminal 1 and G will trigger a specific function related to Input 1, typically muting other inputs or activating a priority override.
- **G & 2 = MASTER SYSTEM STANDBY:** Connecting a contact closure between terminal G and 2 will put the entire TM-360 system into standby mode, effectively muting all outputs.

Consult specific system design documentation for detailed implementation of these contact closure functions.

## MAINTENANCE

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The Ashly TM-360 is designed for reliable operation with minimal maintenance. Follow these guidelines to ensure longevity:

- **Cleaning:** Disconnect power before cleaning. Use a soft, dry cloth to wipe the exterior. Do not use liquid cleaners or aerosol sprays.
- **Ventilation:** Ensure that the ventilation openings on the unit are not blocked. Adequate airflow is crucial for preventing overheating.
- **Cable Management:** Periodically check all cables for wear and tear. Replace damaged cables immediately.
- **Storage:** If storing the unit for an extended period, keep it in a cool, dry place, away from direct sunlight and extreme temperatures.

No user-serviceable parts are inside. Refer all servicing to qualified service personnel.

## TROUBLESHOOTING

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If you encounter issues with your TM-360, consult the following common troubleshooting steps:

**Table 2: Common Troubleshooting Guide**

Problem	Possible Cause	Solution
No power	Power cord disconnected; outlet not active; internal fuse blown.	Check power cord connection. Test outlet with another device. If fuse is suspected, contact qualified service personnel.

Problem	Possible Cause	Solution
No audio output	Input gain too low; master volume too low; incorrect speaker wiring; input source issue; mute engaged.	Increase input gain and master volume. Verify speaker connections and impedance. Check audio source. Ensure Manual Mute is not active.
Distorted audio	Input gain too high; speaker impedance mismatch; faulty cable.	Reduce input gain. Verify speaker impedance matches amplifier output. Test with different cables.
Hum or noise	Ground loop; faulty cable; interference from other electronics.	Ensure all equipment is on the same electrical circuit. Use balanced cables where possible. Isolate the unit from other electronics.
Zone 2 not working	Zone 2 level set to OFF; input not assigned to Zone 2; incorrect Zone 2 wiring.	Adjust ZONE 2 LEVEL knob. Check DIP switches 1, 2, 3 for correct input assignment to Zone 2. Verify Zone 2 output wiring.

If the problem persists after trying these steps, contact Ashly customer support or a qualified service technician.

## SPECIFICATIONS

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- **Brand:** Ashly
- **Model:** TM-360
- **Amplifier Output:** 60 Watts
- **Number of Inputs:** 3 (Microphone/Line)
- **Speaker Output Options:** 4 Ohm, 8 Ohm, 25 Volt, 70 Volt
- **Zone 2 Output:** Pre Out Low Z Balanced 600 Ohm, 1 Watt 8 Ohm
- **Master EQ:** Two-band
- **Connectivity Technology:** Bluetooth
- **Power Source:** Corded Electric (AC INPUT 120V~ 60Hz, 24W)
- **Audio Input Types:** Mic, Line (TRS or XLR equivalent via terminal blocks, RCA)
- **UPC:** 694970608528

## WARRANTY INFORMATION

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The Ashly TM-360 Public Address Mixer/Amplifier comes with a **5-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. For specific terms, conditions, and to register your product, please refer to the official Ashly website or contact their customer support.

Keep your proof of purchase for warranty claims.

## SUPPORT

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For further assistance, technical support, or service inquiries regarding your Ashly TM-360, please visit the official Ashly website or contact their customer service department. You can typically find contact information, FAQs, and additional resources on their support pages.

**Ashly Audio Inc.**

[www.ashly.com](http://www.ashly.com)

