



**TM-335**  
**Public Address Mixer/Amplifier**  
**Operating Manual**



**ASHLY AUDIO INC.**  
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## Important Safety Instructions Consignes de sécurité à lire atten-



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 instructions in the literature accompanying the device.

Le symbole de la foudre dans un triangle équilatéral symbolisant la foudre est prévu pour sensibiliser l'utilisateur à la présence de tension de voltage non isolée à l'intérieur de l'appareil. Elle pourrait constituer un danger de risque de décharge électrique pour les utilisateurs. Le point d'exclamation dans le triangle équilatérale alerte l'utilisateur de la présence de consignes qu'il doit d'abord consulter avant d'utiliser l'appareil.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
6. Do not use this apparatus near water.
7. Clean only with dry cloth.
8. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
9. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus.
10. 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.
11. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
12. Only use attachments/accessories specified by the manufacturer.
13. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
14. Unplug this apparatus during lightning storms or when unused for long periods of time.
15. 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.

1. Lisez ces instructions.
2. Conservez ces instructions.
3. Observez les avertissements.
4. Suivez ces instructions.
5. Pour réduire le risque de feu ou la décharge électrique, ne pas exposer cet appareil pour pleuvoir ou l'humidité.
6. Ne pas utiliser l'appareil près de l'eau.
7. Le nettoyer à l'aide d'un tissu sec.
8. Ne pas bloquer les ouvertures de ventilation, installer selon les consignes du fabricant.
9. Eloigner des sources de chaleur tel: radiateurs, fourneaux ou autres appareils qui produisent de la chaleur.
10. Ne pas modifier ou amputer le système de la mise à terre. Une prise avec mise à terre comprend deux lames dont une plus large ainsi qu'une mise à terre: ne pas la couper ou la modifier. Si la prise murale n'accepte pas la fiche, consulter un électricien pour qu'il remplace la prise désuète.
11. Protéger le cordon de secteur contre tous bris ou pincement qui pourraient l'endommager, soit à la fiche murale ou à l'appareil.
12. N'employer que les accessoires recommandés par le fabricant.
13. N'utiliser qu'avec les systèmes de fixation, chariots, trépied ou autres, approuvés par le fabricant ou vendus avec l'appareil.
14. Débrancher l'appareil lors des orages électriques ou si inutilisé pendant une longue période de temps.
15. Un entretien effectué par un centre de service accrédité est exigé si l'appareil a été endommagé de quelque façon: si il a été exposé à la pluie,, l'humidité ou s'il ne fonctionne pas normalement ou qu'il a été échappé.

## FCC Compliance

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference
2. This device must accept any interference received, including interference that may cause undesired operation.

**WARNING:  
THIS APPARATUS MUST BE EARTHED**

## Table Of Contents

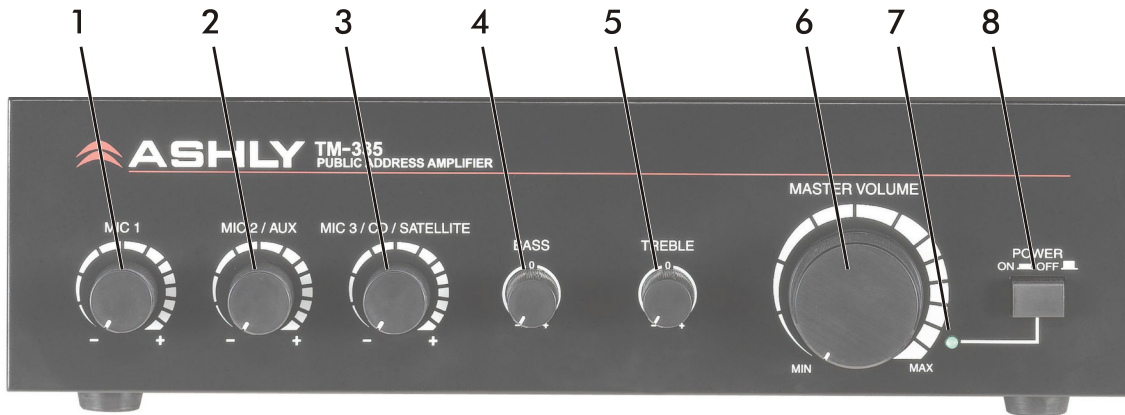
<b>Safety Instructions</b> .....	2
<b>Front Panel Features</b> .....	4
<b>Rear Panel Features</b> .....	5
<b>Speaker Wiring</b> .....	7
<b>Typical Application</b> .....	8
<b>Dimensions</b> .....	9
<b>Schematic Block Diagram</b> .....	10
<b>Specifications</b> .....	11
<b>Limited Warranty</b> .....	12

## □ Overview

The Ashly TM-335 is a table-top 35W mono mixer amplifier, suitable for applications requiring background music with priority paging/ducking from either a microphone or telephone paging system input. The TM-335 includes the following features:

- 35W mono speaker output with 4Ω, 8Ω, 25V, and 70V taps on Euroblock  
*230V export models have 4Ω, 8Ω, 70V, and 100V output taps*
- Euroblock telephone input with rear panel level and ducking depth controls
- Euroblock mic input with rear panel ducking depth control
- Selectable Euroblock mic input or summed stereo aux input on Euroblock or 3.5mm jack
- Selectable Euroblock mic input or summed stereo CD/Satellite input on RCA jack
- Front panel level and master volume controls
- Front panel bass and treble controls
- Limited five year warranty
- Safety/Compliance: cCSAus, CE, FCC, RoHS

Please read this entire manual to fully understand the features and proper use of this product.



## □ Front Panel Features

### 1) Mic 1 Level

This controls the level of Mic 1 input.

### 2) Mic 2/Aux Level

This controls the level of the selectable Mic 2 or summed Stereo Aux inputs.

### 3) Mic 3/CD/Satellite Input Level

This controls the level of the selectable Mic 3 or summed stereo CD/Satellite inputs.

### 4) Bass

This provides control of the low frequency response with up to 10dB of boost or cut.

### 5) Treble

This provides control of the high frequency response with up to 10dB of boost or cut.

### 6) Master Volume

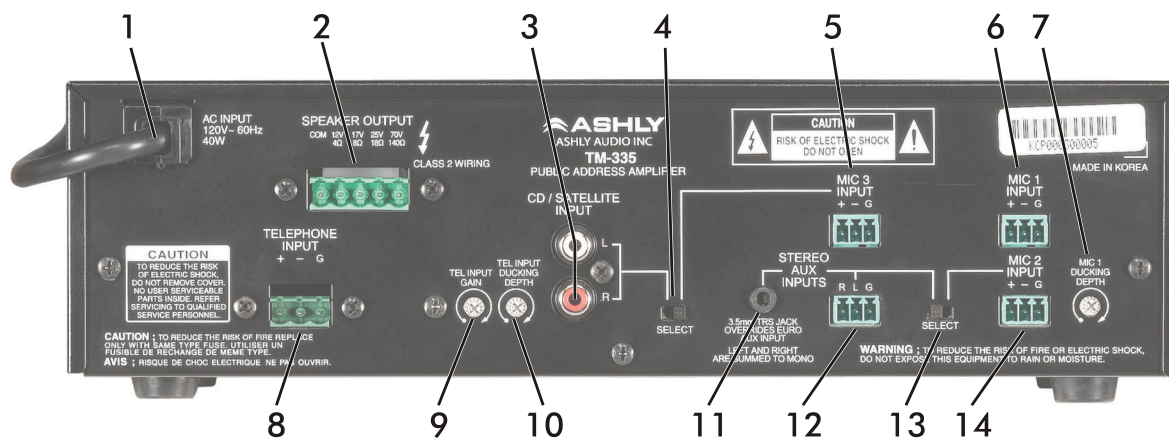
This controls the amplifier output level.

### 7) Power LED

This LED lights green when the unit is powered on.

### 8) Power Switch

This switch turns the power on or off



## □ Rear Panel Features

### 1) AC Mains

This is the AC cord for connecting to 120VAC mains, 60Hz, 40W. Certain export models connect to 230V and are labelled accordingly.

### 2) Main Speaker Outputs

This 5.08mm Euroblock connector is used for speaker output wiring. For low impedance speaker loads, connect between the COM and 12V/4Ω terminal or COM and 17V/8Ω terminal. For 25V or 70V distributed speaker applications, connect the speakers between COM and 25V or 70V terminals, depending on the transformers/speakers used. For distributed speaker loads on 230V export models, connect between COM and 70V or 100V terminals.

### 3) CD/Satellite Input

These RCA inputs accept a stereo line level signal and sum them to mono on channel 3 input. To use the CD/Satellite RCA inputs, be sure to set the channel 3 Select switch (#4 below) to the left.

### 4) Input Select Switch

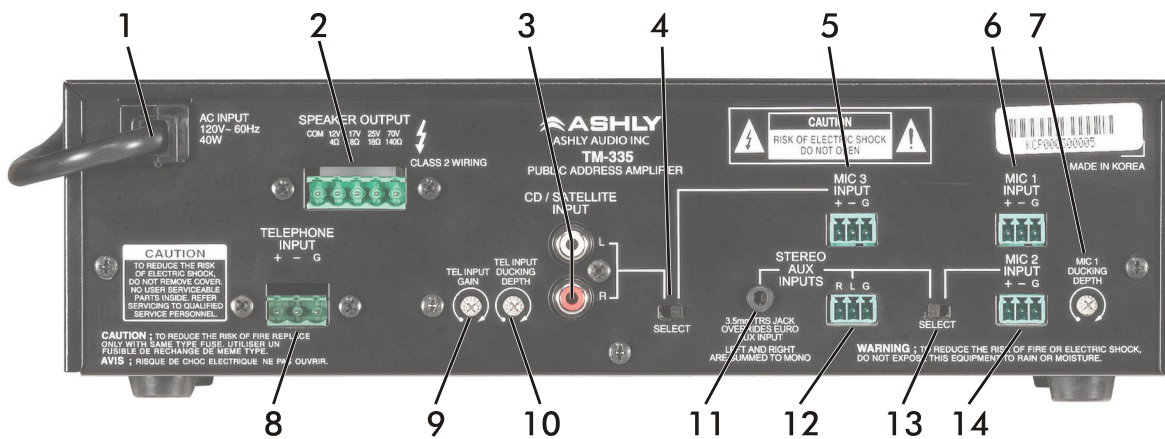
This switch selects either the stereo line level input on RCA jacks, or mic level input on the MIC 3 Euroblock connector.

### 5) MIC 3 Input

This 3.5mm Euroblock connector is used for MIC 3 input. To use the MIC 3 input, set the channel 3 SELECT switch (#4 above) to the right. Wire the microphone (+) signal to pin 1, the (-) signal to pin 2, and (G) to pin 3. If wiring an unbalanced mic input signal into a balanced Euroblock input, be sure to ground the (-) input pin.

### 6) MIC 1 Input

This 3.5mm Euroblock connector is used for MIC 1 input. Wire the microphone (+) signal to pin 1, the (-) signal to pin 2, and (G) to pin 3. If wiring an unbalanced mic input signal into a balanced Euroblock input, be sure to ground the (-) input pin. MIC 1 input has ducking priority over MIC 2 and MIC 3 inputs, with an adjustable ducking depth control. There is no phantom power available on the TM-335.



(rear panel features continued . . .)

### 7) MIC 1 Ducking Depth

This control adjusts the ducking depth of channels 2 and 3 when MIC 1 input has signal present. Turning the control clockwise increases the amount of ducking.

### 8) Telephone Input

This 5.08mm Euroblock connector is used to connect with a 0.3V 600Ω output from a telephone paging system. Wire the telephone input (+) signal to pin 1, the (-) signal to pin 2, and (G) to pin 3. If wiring an unbalanced signal into the balanced telephone input, be sure to ground the (-) input pin. The telephone input has ducking priority over channels 2 and 3 along with MIC 1 input.

### 9) Telephone Input Gain

This adjusts the level of the Telephone input to the main output.

### 10) Telephone Input Ducking Depth

This control adjusts the ducking depth, or decrease in volume, of channels 2 and 3 when the telephone input has signal present. Turning the control clockwise increases the amount of ducking.

### 11) Stereo Aux Input - 3.5mm Jack

This 3.5mm Tip Ring Sleeve (TRS) jack sums its left and right signals into mono, and overrides the Euroblock Stereo Aux input when plugged in. To use this input, the select switch (#13) must be pushed left.

### 12) Stereo Aux Input - Euroblock

This Euroblock input connector sums its left and right signals into mono, and is overridden by the 3.5mm stereo aux input. To use this input, the select switch (#13) must be pushed left.

### 13) Select Switch

This switch must be pushed left to use either the 3.5mm stereo aux input or the euroblock stereo aux input. It must be pushed right to use MIC 2 input.

### 14) MIC 2 Input

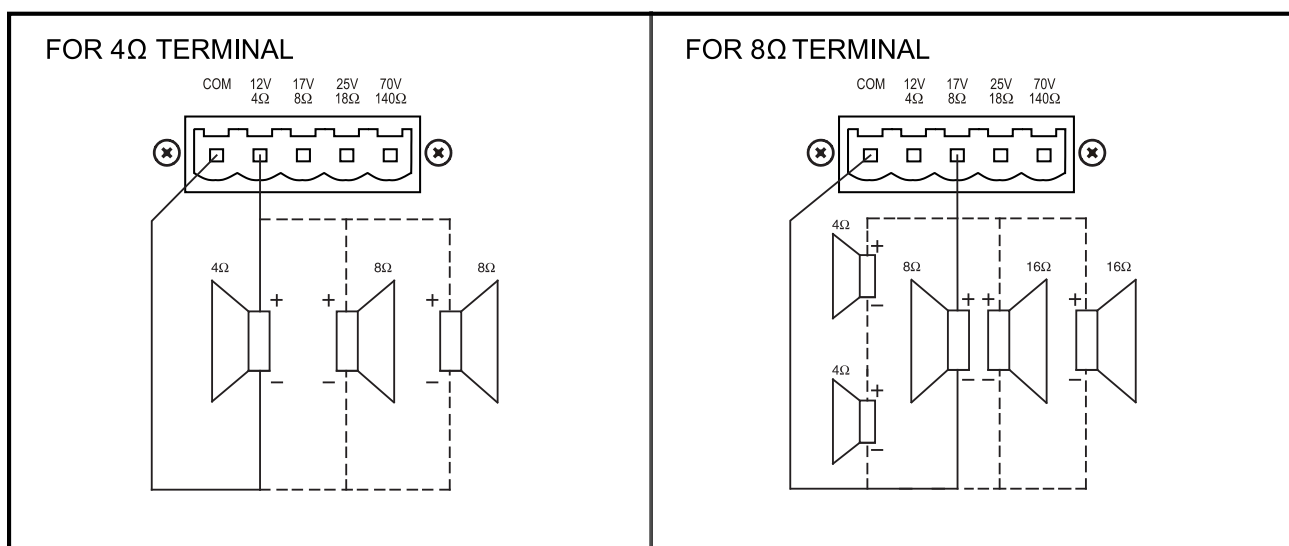
This 3.5mm Euroblock connector is used for MIC 2 input. To use the MIC 2 input, push the channel 2 Select switch (#13 above) to the right. Wire the microphone (+) signal to pin 1, the (-) signal to pin 2, and (G) to pin 3. If wiring an unbalanced mic input signal into a balanced Euroblock input, be sure to ground the (-) input pin.

## □ Speaker Wiring

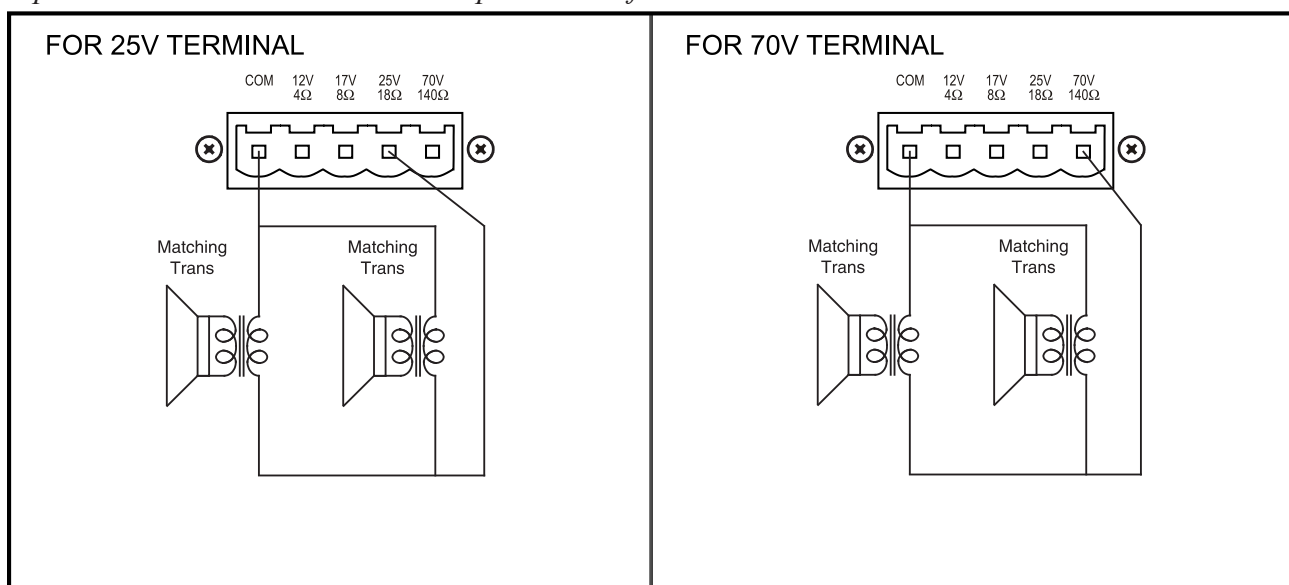
- Before connecting speakers to the TM-335 unit, be sure to disconnect the AC power cable.
- Make certain that the load impedance is not less than the rated impedance indicated.
- Low Z (4Ω or 8Ω), 25V, and 70V speaker loads should not be wired in combination with each other.
- Use class 2 wiring.

For the 4Ω low impedance terminal, connect as shown below, with the negative (-) speaker wire connected to the COM terminal and the positive (+) speaker wire connected to the 4Ω terminal. Note from the illustration how two 8Ω speakers can be wired in parallel to make a 4Ω load.

For the 8Ω low impedance terminal, connect as shown below, with the negative (-) speaker wire connected to the COM terminal and the positive (+) speaker wire connected to the 8Ω terminal. Note from the illustration how two 4Ω speakers can be wired in series, or two 16Ω speakers can be wired in parallel to make an 8Ω load.



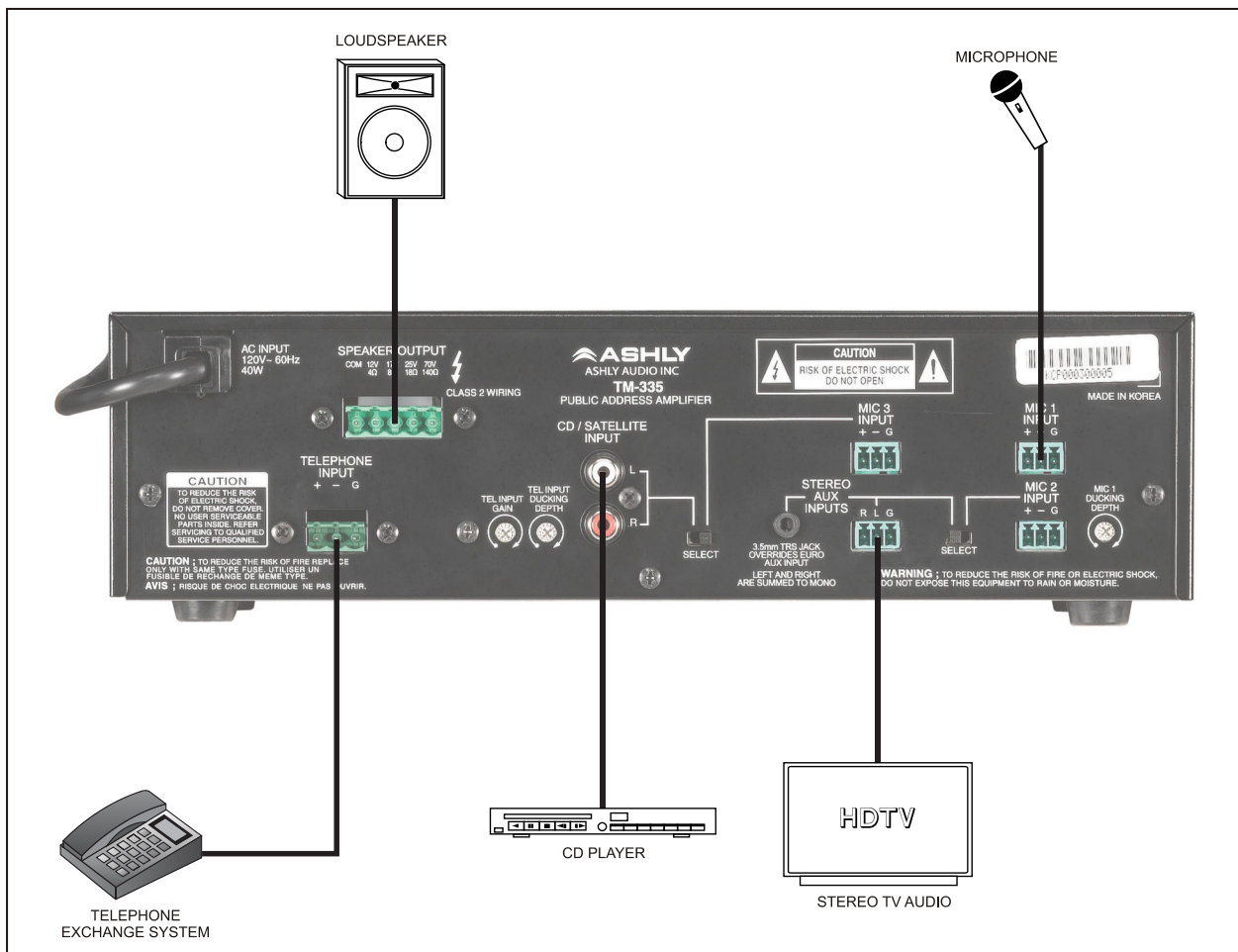
For 25V and 70V terminals, connect with matching transformers as shown below. *Note: 230V export models have 70V and 100V taps instead of 25V and 70V.*



## □ Typical Application

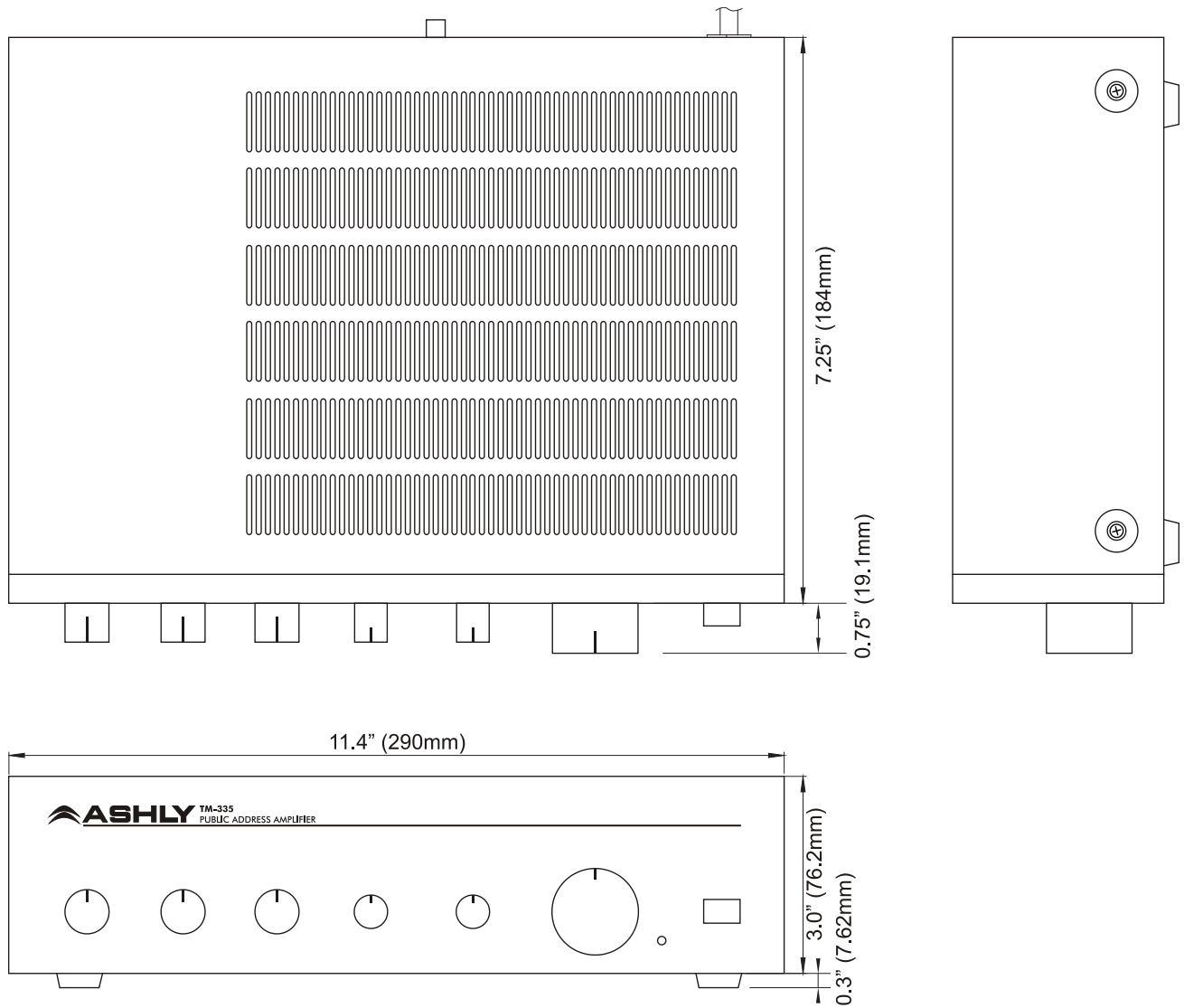
In this example, a dynamic microphone is connected to MIC 1, a stereo tv output is wired to channel 2, and a CD player or satellite receiver is connected to channel 3 using the RCA inputs. A telephone system paging output is connected to the telephone input. Signal present on either MIC 1 or on the telephone input will duck, or temporarily lower the volume, of both the TV and CD/Satellite inputs. The amount of ducking is determined separately by the rear panel ducking depth controls for telephone and MIC 1 inputs. Turning the ducking depth controls clockwise increases the amount of ducking on channels 2 and 3 when that input is active.

Loudspeaker(s) are wired to either the 4Ω, 8Ω, 25V, or 70V output terminals. Make certain to use only one type of speaker output, and to connect a total speaker impedance that is the same or higher than the rated output impedance for the terminal used.

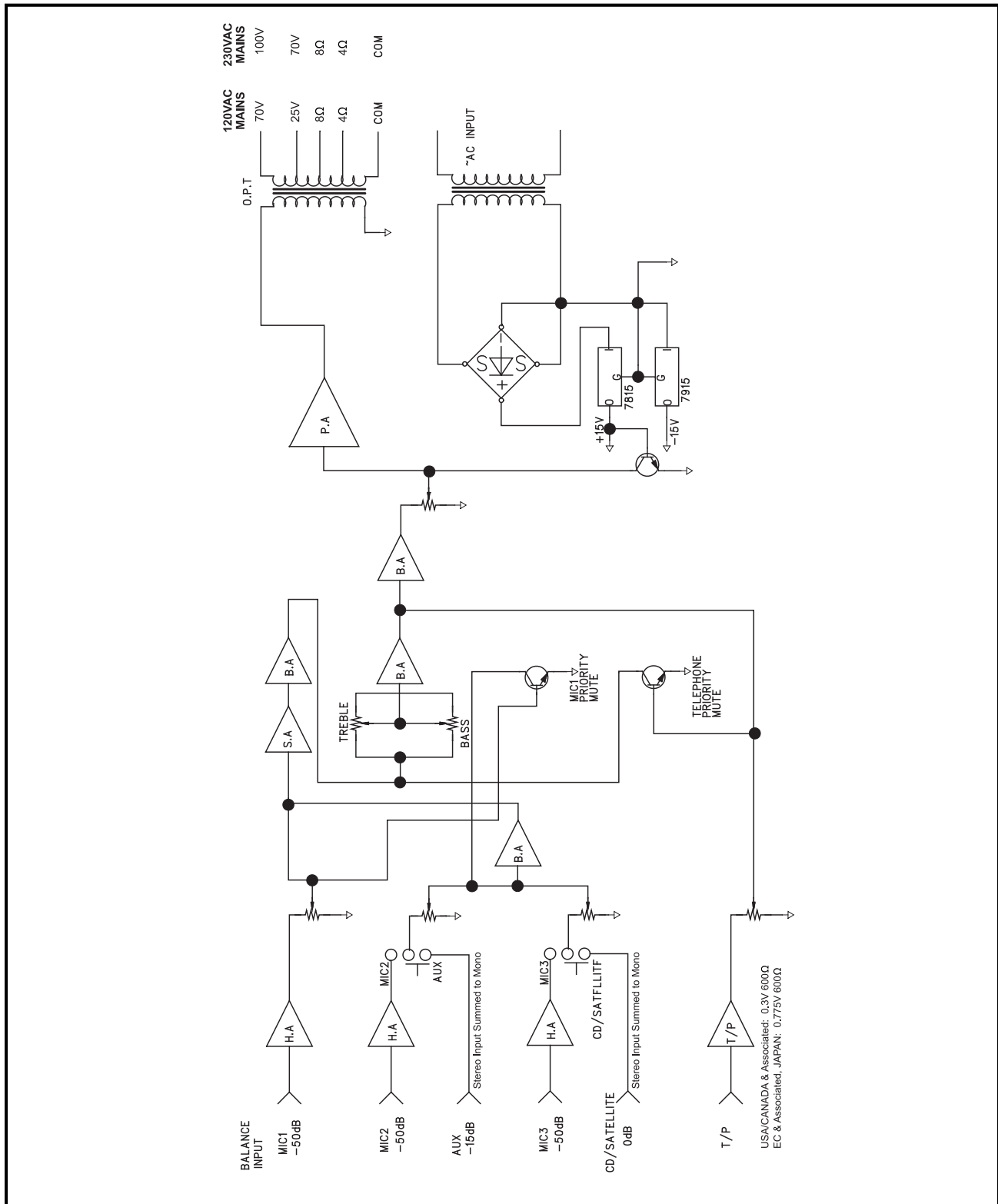




## □ Dimensions



# □ Schematic Block Diagram



## □ Specifications

		TM-335			
Rated Output Power (at T.H.D : 5%		35W (RMS)			
Frequency Response (+0, -3dB)	Mic 1, 2, 3	130Hz-20kHz			
	Aux	50Hz-20kHz			
	CD/Satellite	50Hz-20kHz			
	Telephone	330Hz-3kHz			
T.H.D (at Rated Output, 1kHz		Less Than 5%			
S/N (26dB Gain)	Mic 1, 2, 3	89dB			
	Aux, CD/Satellite, Telephone	89dB			
Input Sensitivity /Impedance	Mic 1, 2, 3	-50dBV/600Ω			
	Aux	-15dBV/10kΩ			
	CD/Satellite	-15dBV/10kΩ			
	Telephone	EC & Associated, JAPAN : 0.775V/600Ω, USA/CANADA & Associated : 0.3V/600Ω			
Output Voltage /Impedance	EC & Associated, JAPAN	4Ω/11.8V	8Ω/16.7V	140Ω/70V	285Ω/100V
	USA/CANADA & Associated	4Ω/11.8V	8Ω/16.7V	18Ω/25V	140Ω/70V
Operating Temperature		-10°C ~ +40°C			
Power Source		100–120VAC or 220–240VAC; 50/60Hz (Supplied AC mains transformer depends on country requirements)			
Line Current Draw (120VAC 60Hz) (For 230VAC 50Hz Models, Divide Line Current Draw Values by 2)	Idle		0.11A		
	1/8th Power Pink Noise		0.27A		
	1/3th Power Sine Wave		0.31A		
Thermal Dissipation (BTU/hr)	Idle		30		
	1/8th Power Pink Noise		68		
	1/3th Power Sine Wave		75		
Weight		4.4kg/9.7lb			
Dimensions		290(W)X76(H)X185(D)mm/11.4(W)X3(H)X7.3(D)in			

\* Specifications and design subject to change without notice. Note: 0dBV = 1V

## Ashly Audio Inc. LIMITED WARRANTY (USA ONLY)

**(Other countries please contact your respective distributor or dealer)**

For units purchased in the USA, warranty service for this unit shall be provided by ASHLY AUDIO, INC. in accordance with the following warranty statement.

ASHLY AUDIO, INC. warrants to the owner of this product that it will be free from defects in workmanship and materials for a period of FIVE years from the original-date-of-purchase. ASHLY AUDIO INC. will without charge, repair or replace at its discretion, any defective product or component parts upon prepaid delivery of the product to the ASHLY AUDIO, INC. factory service department, accompanied with a proof of original-date-of-purchase in the form of a valid sales receipt. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

**EXCLUSIONS:** This warranty does not apply in the event of misuse, neglect, or as a result of unauthorized alterations or repairs made to the product. This warranty is void if the serial number is altered, defaced, or removed. ASHLY AUDIO, INC. reserves the right to make changes in design, or make additions to, or improvements upon, this product without any obligation to install the same on products previously manufactured.

Any implied warranties, which may arise under the operation of state law, shall be effective only for FIVE years from the original-date-of-purchase of the product. ASHLY AUDIO, INC. shall be obligated to only correct defects in the product itself. ASHLY AUDIO, INC. is not liable for any damage or injury, which may result from, or be incidental to, or a consequence of, such defects. Some states do not allow limitations on how long an implied warranty lasts, or the exclusion, or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

### **OBTAINING WARRANTY SERVICE:**

**For warranty service in the United States, please follow this procedure:**

1) Return the product to ASHLY AUDIO, INC. freight prepaid, with a written statement describing the defect and application that the product is used in. ASHLY AUDIO, INC. will examine the product and perform any necessary service, including replacement of defective parts, at no further cost to you.

2) Ship your product to:

ASHLY AUDIO, INC.  
Attention: Service Department  
847 Holt Road  
Webster, NY 14580-9103

Ashly Audio Inc 847 Holt Rd Webster NY 14580  
585-872-0010 toll free 800-828-6308 fax 585-872-0739 www.ashly.com

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