



MPS 2300

SERIES TWO MUSIC AND PAGING SYSTEM



Ivie's MPS-2300 is an integrated, two-zone music and paging system designed for use in restaurants, health clubs, lounges, or anywhere quality music foreground and paging is needed. The versatile MPS-2300 allows selection of four different background / foreground program sources for either zone. Two paging microphone inputs can be routed to either or both zones. There are over-all zone tone controls as well as individual microphone input tone controls.

Special features include fixed mic AGC, adjustable music muting or ducking, adjustable PowerLimit™ output limiting, and auxiliary $\pm 15V$ power supply. A simple but powerful remote control can allow control over page volume, music volume and music source selection.

The MPS-2300's front panel controls are easy to use, while the output metering plus signal presence and assignment LED's offer clear indications of all functions. The back panel allows installer access to virtually all input and output points, tone controls, and numerous other selections. The extensive EQ, built in limiters, and microphone AGC virtually eliminate the need for costly built-in modules and out-board signal processing.

Two Zone, or One Zone Stereo Operation

Two Mic Inputs with Built-in AGC

Four Music Inputs

Two Auxiliary Inputs

Adjustable Music Muting

Built-in Adjustable Limiters

Extensive Speaker Equalization Controls

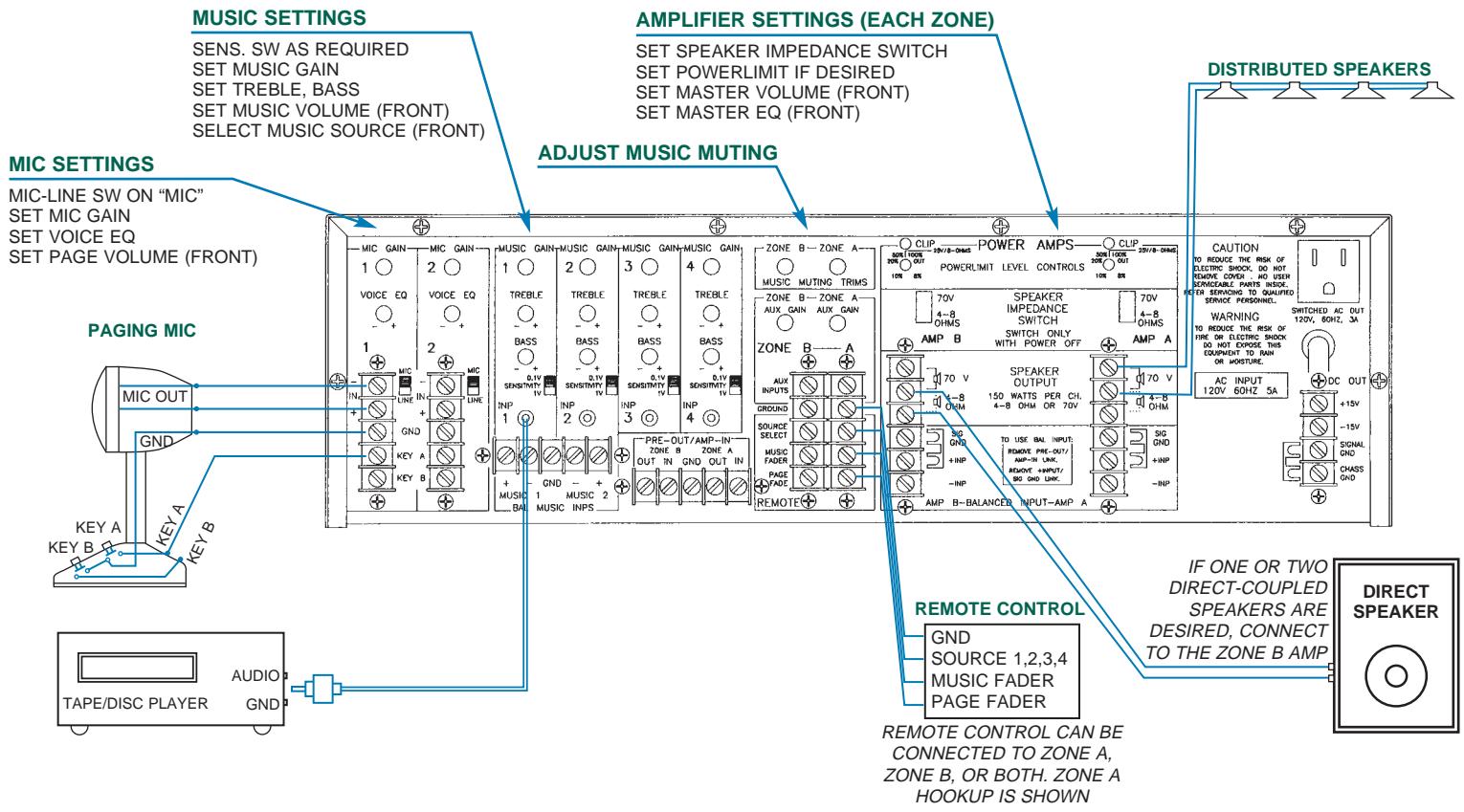
Output Level Meters, Signal Presence and

Assignment LEDs

Turn on/Turn off Muting

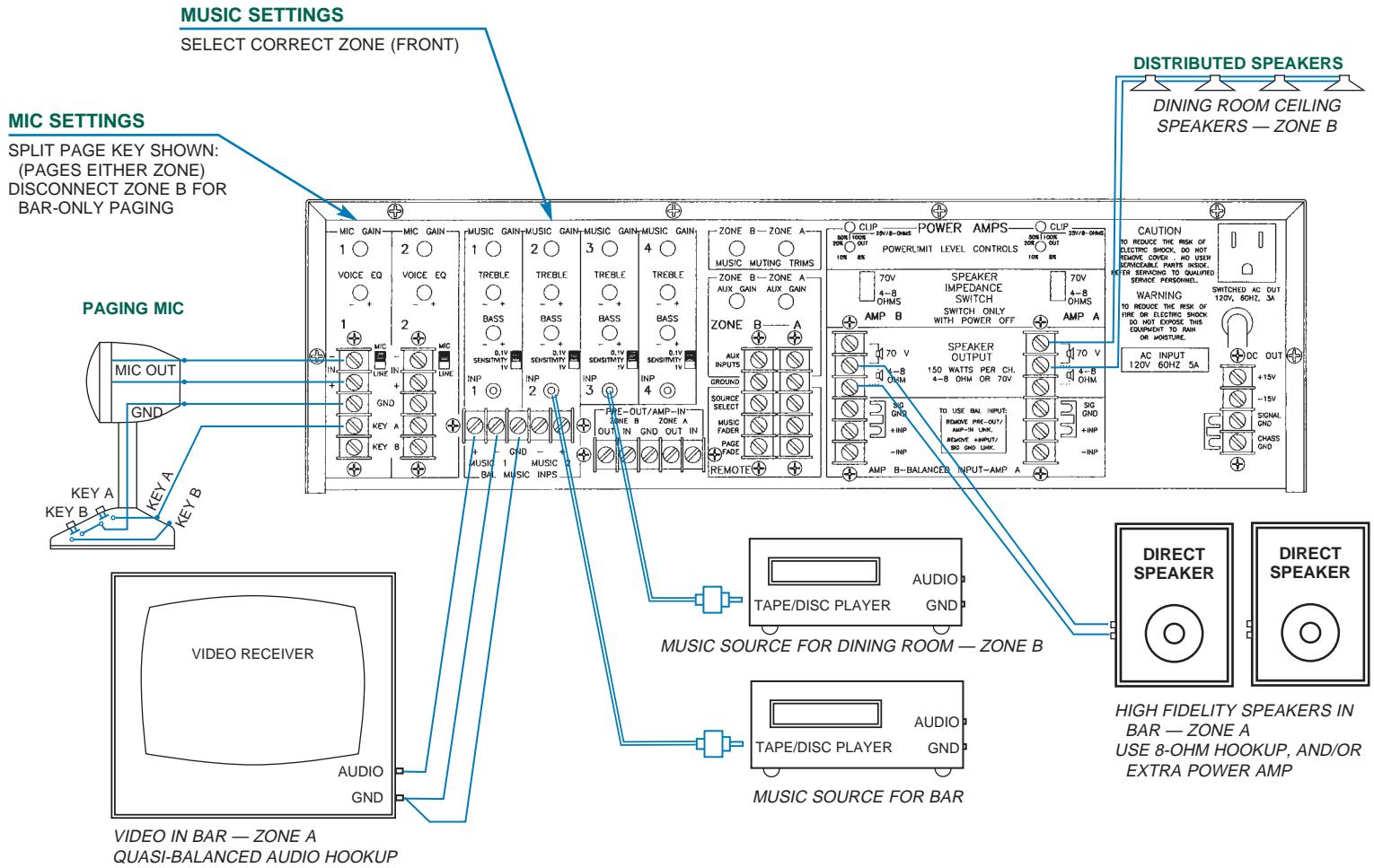
Optional Remote Control

APPLICATION ONE: SINGLE-ZONE BASIC HOOKUP



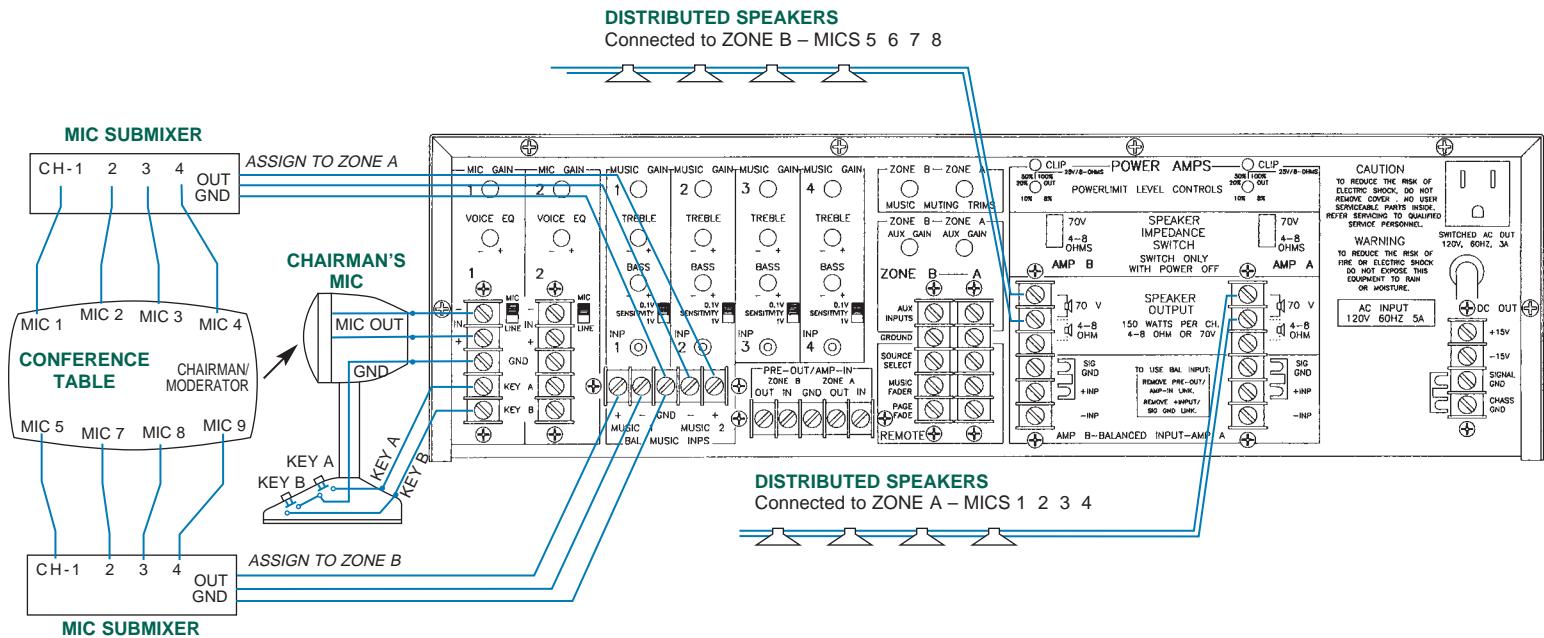
APPLICATION TWO: DUAL-ZONE HOOKUP

ZONE A — BAR
ZONE B — DINING ROOM



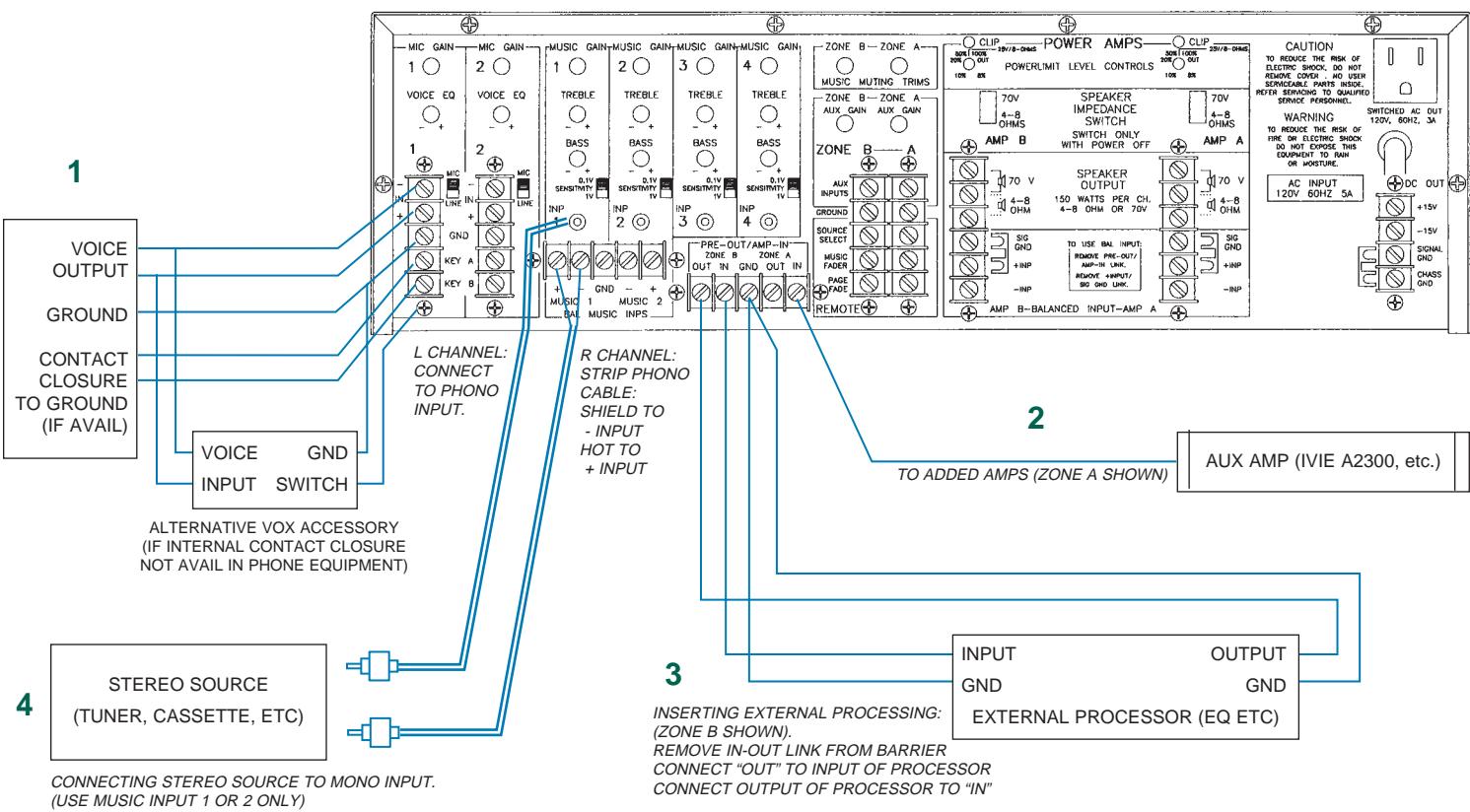
APPLICATION THREE: CONFERENCE ROOM WITH MODERATOR

EACH SIDE OF THE TABLE FEEDS SPEAKERS OVER OPPOSITE SIDE.
CHAIRMAN'S MIC CAN MUTE OR OVER-RIDE REST OF TABLE.



APPLICATION FOUR: SPECIAL TRICKS

1. TELEPHONE INTERFACE
2. ADDING EXTRA AMPLIFIERS
3. ADDING EXTERNAL PROCESSING
4. CONNECTING STEREO GEAR TO MONO INPUT.





MPS 2300 Spec Briefs

TYPE: 8-channel, 2-zone, music and paging mixer amplifier.

SPECIAL FEATURES:

- Fixed mic AGC.
- Adjustable music muting.
- Adjustable PowerLimit™ output limiting.
- Auxiliary ± 15V power supply.
- Remote control Page Volume, Music Volume and Music Source selection.

OUTPUT POWER (per channel, both channels driven):

- 150 watts RMS, 20-20 KHz, 0.1% THD, (70V).
- 125 watts RMS, 20-20 KHz, 0.1% THD, (8 Ohm/25V).

FREQUENCY RESPONSE:

- 20-20 KHz, -1.5 dB, (8 Ohm/25V).
- 3 dB rolloff, 60 Hz, (70V).

DISTORTION: (8 ohms or 70V) .01% THD @ 1 KHz.

INPUT SENSITIVITY/IMPEDANCE:

- Mic Input channels:
 - 0.8 mV-190 mV, 2K ohm balanced (mic position).
 - 37 mV-9V, 100K ohm balanced (line position).

- Music Input channels:
 - 0.04V-10V, 10K ohm (0.1V Sensitivity sw).
 - 0.4V-10V, 10K ohm (1V Sensitivity sw).

- Aux Input channels: 0.26V, 20K ohms.

PRE-AMP OUT: 1V nominal, 100 ohm, (10V maximum).

POWER AMP IN: 1V, 10K unbalanced, 20K balanced.

POWER AMP OUTPUTS:

- 8 ohms/25V, direct coupled unbalanced.
- 70V, direct coupled balanced.

OUTPUT REGULATION:

- Less than 0.04 dB no load to full load (Equivalent damping factor, 200).

NOISE (20-20 KHz, Tone Controls Centered):

- Master Volume on minimum: -100 dB.

- Master Volume on maximum, 1V input: -83 dB.

- Master Volume on maximum, 0.1V inp: -73 dB.

FRONT CONTROLS (each zone):

- Master Treble: ±10 dB at 15 KHz.
- Master Bass: ±10 dB at 50 Hz
- Master Volume: -6 dB on center detent.
- Music Volume: 0 dB on center detent, +6 dB max.
- Music Source assignment, 4-position + off/remote.
- Paging Volume: 0 dB on center detent, + 6 dB max.
- AC Power, push on/off.

REAR CONTROLS:

- Page channels (1 & 2)
- Mic Gain
- Voice EQ (cut at 1 KHz, boost at 3 KHz).
- Mic/Line switch.

Music channels (1-4):

- Music Gain
- Treble (± 10 dB at 10 KHz)
- Bass (± 10 dB at 100 Hz)
- 0.1V/1V Sensitivity switch.

Aux channels (zone A & B): Aux Gain.

Music Muting Trims: (zones A & B).

PowerLimit™ Controls: (zones A & B).

Speaker 70V/8 ohm switches: (zones A & B).

FRONT INDICATORS:

- 2 illuminated Output meters (zones A, B).
- 2 Mic Input Signal LEDs, Mic 1,2 (yellow).
- 4 Music Input Signal LEDs, Ch, 1, 2, 3, 4 (yellow).
- 4 Mic Assign, LEDs, Mic 1,2/Zones A, B (green).
- 8 Music Assign, LEDs, Ch, 1, 2, 3, 4/Zone A, B (green).

REAR INDICATORS: 2 Clip LEDs, Zones A, B (red).

PROTECTION AND PROCESSING CIRCUITS:

- Turn-on/off muting.
- Mic AGC (fixed, with articulation boost).
- Adjustable PowerLimit™ output limiting.
- Patented short circuit, open circuit, ultrasonic and RF protection (self resetting).
- Stable into reactive and mismatched loads.
- Inputs protected from overload.
- DC Fault speaker protection (DC shutdown).
- Power transformer & heat sink thermal protection.
- Internal amplifier fault fuses.

AUXILIARY POWER SUPPLY:

- Regulated ± 15V, 500 mA, 1.4A peak current.

Short-circuit protected, however shorting external supply will interfere with normal operation.

REMOTE FUNCTIONS (each zone):

- Music Channel select, Page level, Music level.
- DC controlled using unshielding wiring.

CONNECTORS:

- Music Channels 1-4: Unbalanced phono jacks.
- Music Channels 1-2: Balanced barrier inputs.
- Mic Inputs 1-2: Balanced barrier inputs.

Switched AC outlet.

All other connections: barrier.

Barrier Strips all on 3/8-inch centers.

POWER CONSUMPTION:

- AC 120V, 60 Hz, 5A.
- Switched Accessory outlet, 3A.

COOLING: Passive, side, top and bottom vents.

TEMPERATURE RANGE: -10°C to +60°C (12°F to 140°F)

DIMENSIONS:

- 5.25" Tall + 0.75" for feet, 17" Wide (19" Wide in rack mount configuration),
12" Deep chassis + 0.5" front and back for knobs.

WEIGHT: 29 lbs, net, 35 lbs, shipping weight.

COLOR: Black.

STANDARD ACCESSORIES:

- 6 knob lock-outs. Sheet of Site Labels, On-Site User's Manual

OPTION ACCESSORIES: Remote control panel. Rack mounting brackets.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.



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