DMS3040B - 40 Watt RMS
DMS3080B - 80 Watt RMS
DMS3120B - 120 Watt RMS
DMS3260B - 260 Watt RMS

INSTALLATION MANUAL
AND OPERATING INSTRUCTIONS

SPECSIFICATIONS

<table>
<thead>
<tr>
<th>POWER OUTPUT:</th>
<th>DMS3040B</th>
<th>DMS3080B</th>
<th>DMS3120B</th>
<th>DMS3260B</th>
</tr>
</thead>
<tbody>
<tr>
<td>40 Watt RMS</td>
<td>80 Watt RMS</td>
<td>120 Watt RMS</td>
<td>260 Watt RMS</td>
<td></td>
</tr>
<tr>
<td>Distortion:</td>
<td>Less than 0.03% THD</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frequency Response:</td>
<td>20 - 20,000 Hz ± 1 db</td>
<td></td>
<td></td>
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</tbody>
</table>

INPUTS

<table>
<thead>
<tr>
<th>Input</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Microphone or Line Balanced</td>
</tr>
<tr>
<td>2</td>
<td>Microphone or Line Balanced</td>
</tr>
<tr>
<td>3</td>
<td>Microphone or Line Balanced</td>
</tr>
<tr>
<td>4</td>
<td>Microphone or Line Balanced</td>
</tr>
<tr>
<td>5</td>
<td>Microphone or Line Balanced</td>
</tr>
<tr>
<td>6</td>
<td>Microphone or Line Balanced</td>
</tr>
<tr>
<td>7</td>
<td>Module Port</td>
</tr>
</tbody>
</table>

SENSITIVITY & Z

<table>
<thead>
<tr>
<th>Input</th>
<th>Sensitivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1.5 V - 250 ohms</td>
</tr>
<tr>
<td>2</td>
<td>1.5 V - 250 ohms</td>
</tr>
<tr>
<td>3</td>
<td>1.5 V - 250 ohms</td>
</tr>
<tr>
<td>4</td>
<td>1.5 V - 250 ohms</td>
</tr>
<tr>
<td>5</td>
<td>1.5 V - 250 ohms</td>
</tr>
<tr>
<td>6</td>
<td>1.5 V - 250 ohms</td>
</tr>
</tbody>
</table>

ATTENUATOR:

<table>
<thead>
<tr>
<th>Attenuator</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCV - Remote Volume Control</td>
<td>Input 1 through 6</td>
</tr>
</tbody>
</table>

Phantom Power:

All Microphones by Independent DIP Switch (18 V)

Hum & Noise:

-70 dB, Aeq -75 dB

LOCUT Filter:

Dh Inputs 5 - 8 dB at 100 Hz

Module Port:

Accepts Standard Module

EQ LINK:

Preamp out, Power Amp in with EQ Link Switch

Line Outputs:

Line Out 800 ohms - 1.5 V loaded

MIX BUS:

IN/OUT with remote Control Defeat Relay

Music on Hold Output:

0 dB, 1.0 Volt Transformer Balanced

Zone 2 Output:

5 Volt-8 ohm with Control

Zone 3 Output:

5 Volt-8 ohm and 70 Volt with Control

Main Output Impedance:

8 ohm, 25 Volt and 70 Volt line

CONTROLS

Front Panel:

Volume Input 1 - 6, Module Volume, Bass, Treble and Master Volume

Rear Panel:

Volume Input 1 - 6, & Input -1, -2 Switch, AUX 1 - AUX 5, Module 1 - Module 5

Bass and Treble Controls:

On/Off Switch (rear panel)

MICH Source Selection:

Zone 1 and 2 Source Select: AUX 1 - AUX 5, AUX 1 - AUX 3, AUX 1 - AUX 4 - Module

DUAL VDX:

Voice Activated Muting

VOX BUS 1: Available on all 7

VOX BUS 2: Available on all 7 Inputs DIP Switch Activated

MUTE BUS 1: Available on all 7 Inputs DIP Switch Activated

MUTE BUS 2: Available on all 7 Inputs DIP Switch Activated

MUTE DELAY: Available on all 7 Inputs DIP Switch Activated

Urinate Feature:

On Inputs 1 and 2

Power Supply Output:

24 VDC, 500 mA Regulated

Auto VDX Muting:

NO/NC Contacts - VDX activated - Contacts Rating = 30 VDC - 7 A

Rack Mounting:

Optional Model 27/3501 - 18" Rack Kit

Internal Cooling Fan:

3 Thermally Controlled - Models DMS3040B, DMS3120B, DMS3260B

Power Requirement:

85 - 260 VAC - 50/60 Hz

AC Accessory Outlet:

-120 Volt 5A Max. - Unswitched

Phonograph Connectors, RCA Jacks

Rear Panel DIP Switches

Installation:

17"W, 15"D, 4"H. w/feet (342±380X102 mm). 3.5"H (89 mm). less feet

Dimensions:

<table>
<thead>
<tr>
<th>Model</th>
<th>18 Lbs (8.2 Kg)</th>
<th>21 Lbs (9.6 Kg)</th>
<th>23 Lbs (11 Kg)</th>
<th>34 Lbs (15.5 Kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMS3040B</td>
<td>DMS3080B</td>
<td>DMS3120B</td>
<td>DMS3260B</td>
<td></td>
</tr>
</tbody>
</table>

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IMPORTANT NOTE: THIS OPERATING MANUAL IS PROVIDED AS AN INSTALLATION AND AS AN OPERATING AID. PASO SOUND PRODUCTS, INC. DOES NOT ASSUME ANY RESPONSIBILITY AS TO ITS ACCURACY AND SHALL NOT BE LIABLE IN TORT OR CONTRACT FOR ANY DIRECT CONSEQUENTIAL OR INCIDENTAL LOSS OR DAMAGE ARISING FROM THE INSTALLATION, USE OR INABILITY TO USE THIS PRODUCT.
SAFETY PRECAUTIONS

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 appliance.

![CAUTION](https://example.com/attention.png)

IMPORTANT SAFETY INSTRUCTIONS

BEFORE OPERATING THE AMPLIFIER, BE SURE YOU FULLY UNDERSTAND ALL INSTRUCTIONS AND FEATURES OF THE UNIT.

1) Read these instructions carefully.
2) Keep these instructions.
3) Heed all Warnings.
4) Follow all instructions.
5) DO NOT use this apparatus near water.
6) Clean ONLY with a damp cloth.
7) DO NOT block any of the ventilation openings. Install in accordance with the instructions provided.
8) DO NOT install near any heat sources such as radiators, stoves, or other apparatus (including amplifiers) that produce heat.
9) DO NOT mount amplifier into a container or a closed unventilated closet while operating.
10) DO NOT place any object or accessory equipment such as Tuners, Mixers, Cassette Decks, etc. on top of the amplifier. Obstructing or closing the cabinet ventilation openings may cause overheating.
11) 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 and or the third prong is provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

12) Use only the attachments and accessories specified in this manual.
13) If a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
14) Unplug this apparatus during lighting 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.
16) DO NOT replace fuses unless power cord is removed from the AC wall outlet.
17) DO NOT install accessories unless the power cord is removed from the AC wall outlet.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE. DO NOT OPEN THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

RACK MOUNTING INSTRUCTIONS

A) Procure the optional accessory Rack Mount Kit Model 27/3501.
B) Turn amplifier up side down and remove the four rubber feet by unscrewing the four holding screws.
C) Remove the bottom front screws on each side of the amplifier holding the amplifier cover.

![Rack Mounting Instructions](https://example.com/rack-mounting.png)
REFERENCES MANUAL - INPUTS 1 - 2 - 3 CONFIGURATION

INPUTS 1 - 2 - 3 BLOCK DIAGRAM

INPUT 1
MIC / LINE

G
COM
HOT
+RVC
UNMUTE

MT250
10K POT
OPTIONAL MIC
INPUT TRANSFORMER
MT250
PHANTOM
POWER ON - OFF
OP AMP
RVC LOGIC
A
INPUT 1 ATTENUATOR

MT250 SOCKET

A
INPUT 1 LEVEL

VOX 1 ON - OFF
1V1
VOX 2 ON - OFF
1V2
MUTE 1 ON - OFF
1M3
MUTE 2 ON - OFF
1M4

INPUT 1 MIC/LINE SWITCH

INPUT 1
MIC
LINE

INPUT 2
MIC/LINE

INPUT 3
MIC/LINE

INPUTS 1 & 2
ARE PRESET
AS MICROPHONE

WHEN ACTIVATED
BOTH INPUTS WILL
MUTE INPUT 3

ANY INPUT VOX AND MUTING FUNCTION

INP 1 - 2 - 3 WIRING DIAGRAM EXAMPLE

INPUT 1
MIC/LINE

A=INPUT ATTENUATOR

INPUT 2
MIC/LINE

INPUT 3
MIC/LINE

ANY INPUT

VOX SEND

V1
TO VOX BUSS 1

V2
TO VOX BUSS 2

SOURCE IN

AUDIO OUT

MUTE RECEIVE

M1
FROM MUTE BUSS 1

M2
FROM MUTE BUSS 2

REMOTE VOLUME
CONTROL IS
PROVIDED ON EACH
INPUT

RVC10W REMOTE VOLUME CONTROL
10K POT

CD PLAYER

RVC10W REMOTE VOLUME CONTROL
10K POT

RVC10W REMOTE VOLUME CONTROL
10K POT

RM 001
REFERENCE MANUAL - ZONE 1 AND ZONE 2 CONFIGURATION

ZONE 1 AND ZONE 2 BLOCK DIAGRAM

ZONE 1 AND 2 DIP SWITCH PROGRAMMING

ZONE 1 AND ZONE 2 WIRING DIAGRAM EXAMPLE

ZONE ONE FOUR SPEAKER OPTION DIAGRAM

ZONE ONE SPEAKER OUTPUT MAY BE USED TO COVER AN AREA (LOBBY OR ENTRANCE) WITH MUSIC ONLY WITHOUT PAGING INTERRUPTION

ZONE ONE MUSIC SOURCE CONNECTED TO PHONE MUSIC ON HOLD INPUT

REMOTE CONTROL MIX BUSS OPERATION For the MIX BUSS Feature please refer to the ROOM COMBINING SYSTEM APPLICATION DIAGRAM IN THIS MANUAL

RM 006
VOX RELAY DIAGRAMS

THE VOX RELAY TRIGGER SELECTOR IS SET ON M1. WHEN THE VOX V1 IS ACTIVATED THE VOX RELAY WILL SWITCH ON.

THE CHIME TRIGGER SELECTOR IS SET ON M2. IF EQUIPPED WITH THE OPTIONAL CHIME CARD THE CHIME WILL SOUND WHEN M2 IS SHORTED TO GROUND.

THE 24 VOLT REGULATED UTILITY POWER SUPPLY CAN POWER EXTERNAL MODULES AND OTHER ACCESSORIES.

VOX NOT ACTIVATED

VOX ACTIVATED

VOX RELAY TRIGGER

WIRING THE VOX RELAY WHEN USING PRIORITY ATTENUATORS. BOTH POWER AND CONTROL ARE PROVIDED.

24 V DC 500mA

POWER REMOTE

TONE

MUTE 1

MUTE 2

GATED OUTPUTS

A

B

CHIME/ALARM

REMOTE VOLUME

PRIORITY ATTENUATOR

REMOTE ON - OFF POWER SWITCH

DIRECT MUTE 1 ON - OFF SWITCH

DIRECT MUTE 2 ON - OFF SWITCH

REMOTE VOLUME CONTROL

10 K POT

24 VOLT SPEAKER

70 VOLT SPEAKER

70 VOLT SPEAKER
The MIX BUSS is utilized to combine the inputs of one Amplifier with the inputs of one or more Amplifiers. The diagram shows how the Amplifiers are connected using the MIX BUSS Line.

The MIX BUSS Defeat Feature is used to connect or disconnect one or more Amplifiers to the MIX BUSS Line through ON/OFF Switches as shown in the diagram.

When the Switch is ON the MIX BUSS Output is defeated on the individual Amplifier.
REFERENCE MANUAL - 3 ZONE PAGING SYSTEM WITH PRIORITY

INPUTS 1 - 2 WIRING DIAGRAM EXAMPLE

AMPLIFIER ZONE 1
- INPUT 1 MIC/LINE
- INPUT 2 MIC/LINE

AMPLIFIER ZONE 2
- INPUT 1 MIC/LINE
- INPUT 2 MIC/LINE

AMPLIFIER ZONE 3
- INPUT 1 MIC/LINE
- INPUT 2 MIC/LINE

MICROPHONE 1 ZONE CONTROL
- ZONE SELECTORS: 1, 2, 3
- VOX BUSS V1 IS ACTIVATED
- SWITCH 1V1 IS 1V2 AND 2V7 ARE ON

MICROPHONE 2 ZONE CONTROL
- ZONE SELECTORS: 1, 2, 3
- VOX BUSS V2 IS ON WITH SWITCH 1V2 MUTE BUSS M2 IS ACTIVATED ON INPUT 2 WITH SWITCHES 2M 10 TURNED ON

INPUT 5 MIC/LINE
- MUTE BUSS M1 IS ACTIVATED SWITCH BM 6 IS ON

INPUTS 1 - 2 DIP SWITCH PROGRAMMING
- INPUT MIC/LINE SWITCH
  - MIC: Off, On
  - LINE: Off, On

INPUTS 1 & 2...
**REFERENCE MANUAL - JUKEBOX AND SATELLITE MUSIC WITH MIC PRIORITY**

### INPUT1 DIP SWITCH PROGRAMMING

<table>
<thead>
<tr>
<th>INPUT 1</th>
<th>MIC/LINE SWITCH</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
</tr>
</tbody>
</table>

**VOX 1 SENSITIVITY CONTROL**

- Turn Satellite music on and while music is playing generate a page from the microphone.
- While talking turn VOX 1 Sens Control slowly clockwise until the Satellite music is muted. If necessary repeat above while the jukebox is playing.

**INPUT 1 WIRING DIAGRAM EXAMPLE**

- **Input 1** is preset as microphone.
- When activated Input 1 (MIC) will mute Input 4 and 5 Jukebox and SATX music.

### INPUTS 4 - 5 DIP SWITCH PROGRAMMING

<table>
<thead>
<tr>
<th>INPUT 4</th>
<th>INPUT 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>V2</td>
<td>V1</td>
</tr>
<tr>
<td>M1</td>
<td>M2</td>
</tr>
</tbody>
</table>

**VOX 2 SENSITIVITY CONTROL**

- Turn Satellite music on. Turn Jukebox on and while playing a track turn VOX 2 Sens Control slowly clockwise until the Satellite Music is muted.

**MUTE 2 DELAY**

- The Jukebox Configuration utilizes the VOX/MUTE 2 Buss. In order to prevent the premature Jukebox/Music source switching, the music source cuts in while the Jukebox is active. A MUTE TIME DELAY TRIMMER is available on the Rear Panel to increase the MUTE DELAY as necessary. The MUTE DELAY can be adjusted from 3 to 60 seconds.

**EXAMPLE:** If the Jukebox is playing and the tone has a long pause or the long pause while the Jukebox is cycling between CD's it is possible that the music source (Background Music) may cut in causing annoying and unwanted chatter while the Jukebox is still active. To prevent this problem, the MUTE TIME DELAY TRIMMER should be adjusted accordingly.

### INPUTS 4 - 5 WIRING DIAGRAM EXAMPLE

- **Input 4** is set as AUX 3.
- **Input 5** is set as AUX 4.

**REMOTE VOLUME CONTROL IS OPTIONAL**

- Remote volume control is 10K pot.
- Remote volume control is optional.

**SATELLITE MUSIC REMOTE VOLUME CONTROL IS OPTIONAL**

- Satellite music remote volume control is optional.
- RVC10W remote volume control 10K pot.
- VRC10W remote volume control 10K pot.

**JUKEBOX AUTOMATICALLY MUTES THE MUSIC SOURCE WHEN SWITCHED ON**

- Jukebox automatically mutes the music source when switched on.
- Mute button M1 and M2 are activated switch 4M8 is on.

**REFERENCE MANUAL - JUKEBOX AND SATELLITE MUSIC WITH MIC PRIORITY**

RM 010