Aiphone offers amplifiers to provide paging and other features for many of our systems. These amplifiers are manufactured by MIEG Corporation and are available in 35W, 60W, and 120W sizes. This supplemental instruction manual includes wiring diagrams for applications with Aiphone systems. See the included MDM Installation and Operation Manual for complete information on switch settings and adjustments.

**Front Panel Controls**

**Rear Panel Inputs - Outputs**

**MODEL**  
MD35M  
MD60M  
MD120M  

**WATTAGE**  
35 Watts  
60 Watts  
120 Watts  

**INPUTS**  
Mic (250Ω, 5mV)  
Telephone (600Ω/10kΩ, 100mV)  
Aux (47kΩ, 300mV)  

**OUTPUTS**  
Speaker Output (8Ω, 25V, 70V)  
MOH Balanced Output  

Some Aiphone systems require separate adaptors for adding paging to the system. Match the appropriate paging adaptor with the system being used. Choose the amplifier based on output requirements for your application.

**PAGING ADAPTOR**  
IX-PA  
AXW-PA1  
BA-1  
MC-A/A  
PD-1  
PD-2 (w/Talkback)  

**SERIES**  
IX  
AX  
LEM, LEF, IX-1AS, IX-10AS  
MC-60/4A  
TD-H  
TD-H  

Caution: To reduce the risk of fire or shock, do not expose this appliance to rain or moisture. Do not remove cover. There are no user serviceable parts inside; refer servicing to qualified service personnel. Caution: Risk of electrical shock. Disconnect the product from the outlet before replacing the fuse. To reduce the risk of fire, replace only with the same type fuse. Made by MIEG CHINA.
WIRING DIAGRAM
MDM Series Amps with IX Series (IX door stations and IX-PA):

The paging output on the IX Series stations must be enabled and programmed. Refer to the appropriate IX Series Installation Manual for programming procedures.

Output to Speaker System

Switch TEL to 600Ω

* IX Door stations shown as an option.

WIRING DIAGRAM
MDM Series Amps with IS Series:
Page through an overhead speaker system from an IS Series system using the IS-CCU, IS-SCU, or IS-RCU (P1-P4 outputs).

Output to Speaker System

Switch TEL to 600Ω

The Paging Output on the IS Exchange Unit must be enabled and programmed when configuring the IS system. Refer to the IS Series Installation manual for programming procedure.

IS-CCU

WIRING DIAGRAM
MDM Series Amps with the BA-1:

Output to Speaker System

Switch TEL to 10k

To # terminal on master station
To “Sub” + terminal on IX-1AS
To E terminal on master station
To “Sub” - terminal on IX-1AS

Yellow

Green

Amp Instructions
Pg. 2
WIRING DIAGRAM
MDM Series Amps with MC-A/A on the MarketCom Series:

Output to Speaker System

WIRING DIAGRAM
MDM Series Amps with PD-1 or PD-2 on the TD-H Series:

Output to Speaker System

Output used determined by speakers

To Talkback Paging Speakers
WIRING DIAGRAM
MDM Series Amps with the AXW-PA1 on the AX Series:

- AUX MOH MIC TEL
- GAIN LEVEL SENS
- AUX INPUT

47K Ω 300mV

IN PARALLEL CLASS 2 WIRING ACCEPTABLE

- COM 8 25V 70V 12V DC
- AMP ACCESSORY OUTPUT

- LINE FUSE 2A 250V
- ~120V / 60HZ

CAUTION: TO REDUCE THE RISK OF FIRE OR SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. DO NOT REMOVE COVER. THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

CAUTION: RISK OF ELECTRIC SHOCK. DISCONNECT THE PRODUCT FROM THE OUTLET BEFORE REPLACING THE FUSE. TO REDUCE THE RISK OF FIRE, REPLACE ONLY WITH THE SAME TYPE FUSE. MADE BY MIEG CHINA

10K/600Ω

1V

250Ω

5mV

10K/600Ω

MOH MUTING MIC TEL

WARNING: THIS APPLIANCE MUST BE EARTHED

Output to Speaker System

Switch TEL to 600Ω

Output to 600Ω

White to HOT

White to COM

RJ-45 to sub output on AX-CEU

Set GAIN switch to match amplifier’s input level (default is L position).

High Gain: 0dB output to 600Ω load
Low Gain: -20dB output to 600Ω load

SERVICE ISSUES

1. For assistance in connecting the MDM Series amplifier to an Aiphone system, contact Aiphone Technical Support at (800) 692-0200 during the hours of 5:00 am to 4:30 pm Pacific Time.
2. For other questions not associated with an Aiphone system, contact MIEG Technical Support at (843) 819-8883.

For repair service on a MDM Series amplifier provided by Aiphone, follow these steps:

1. Call MIEG at (843) 819-8883 and ask for a return authorization (RA) number.
2. Advise MIEG you purchased the unit from Aiphone and are requesting to have it evaluated for repair.
3. Provide MIEG the model number, serial number, and a brief description of the issue(s) you are experiencing.
4. Send the unit in proper packaging to MIEG address below.
5. MIEG will repair or replace the unit and return it directly to you, at no charge.
6. MDM Series amplifiers have a 5-year warranty on parts and labor.

RA#
MIEG CORPORATION
2300 CLEMENTS FERRY ROAD, SUITE 202
CHARLESTON, SC 29492
ATTN: SERVICE DEPARTMENT

SPECIFICATIONS and WARRANTY:
Refer to MDM Series Installation and Operating Instructions included with the amplifier.