

Monaural Power Amplifier DAD-M310

Owner's Manual

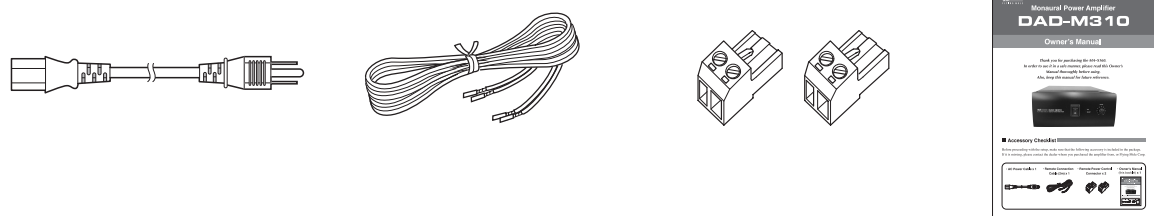
Thank you for purchasing the DAD-M310.
In order to use it in a safe manner, please read this Owner's Manual thoroughly before using.
Also, keep this manual for future reference.



Accessory Checklist

Before proceeding with the setup, make sure that the following accessory is included in the package. If it is missing, please contact the dealer whom you purchased the amplifier from, or Flying Mole Corp.

- AC Power Cable x 1
- Remote Connection Cable (2m) x 1
- Remote Power Control Connector x 2
- Owner's Manual (this booklet) x 1

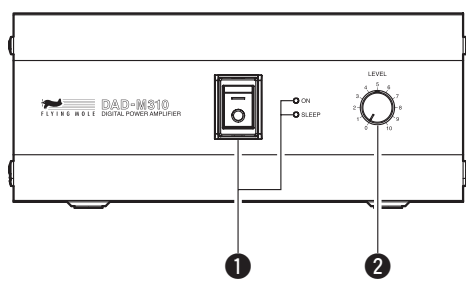


2 Features

- Equipped with high-speed, floating, full-resonance switching regulator
- Flying Mole Bi-Phase PWM amplifier technology realizes a new level of high sound quality with stunning high-speed responsiveness and wide dynamic range.
- Equipped with real-time current limiter
- Gorgeous parts for uncompromising standards
- General-purpose input interface allows connection with various types of preamplifiers

3 Component Names

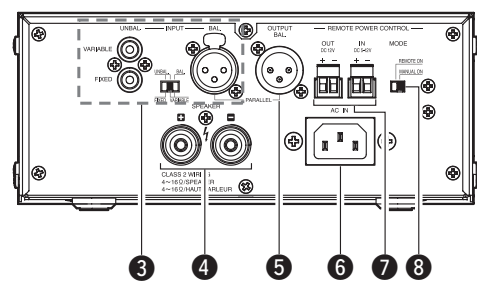
Front Panel



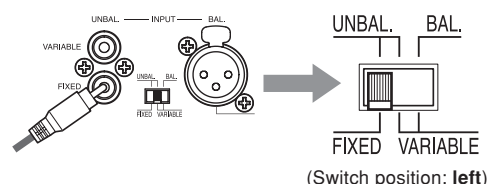
- 1 Power Switch / Power Indicator**
Used to turn the amplifier's power ON or OFF. The ON indicator (blue) lights when the power is turned on. When the power amplifier is on standby in REMOTE ON MODE (refer to 8), the SLEEP indicator (orange) is on.

- 2 LEVEL Adjustment Knobs**
Used to control the output level. Setting the knob to "0" turns down the level to the minimum.

Rear Panel



- 3 INPUTS / INPUT Selector**
Used to connect the input signal to the amplifier. Connect an input to a preamplifier, etc. Select one of the following settings depending on which input is connected.
- **INPUT: UNBAL - FIXED**
The LEVEL adjustment knob (2) on the front panel is bypassed.



1 Safety Instructions

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

THIS SYMBOL INDICATES THAT DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THIS UNIT.

THIS SYMBOL INDICATES THAT THERE ARE IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE OWNER'S MANUAL WITH THIS UNIT.

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

The important safety instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. 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.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. 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.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. 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 operated normally, or has been dropped.

THE APPARATUS IS NOT WATERPROOF. TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE AND DO NOT PUT ANY WATER SOURCE NEAR THIS APPARATUS, SUCH AS VASE, FLOWER POT, COSMETICS CONTAINER AND MEDICINE BOTTLE, ETC.

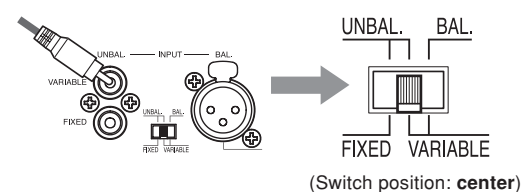
IMPORTANT NOTICE

If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures :
Relocate either this product or the device that is being affected by the interference.
Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter/s.
In the case of radio or TV interference, relocate/reorient the antenna.
If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to coaxial type cable.
If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Flying Mole Corporation.

Component Names

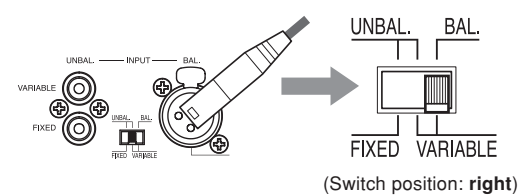
● INPUT: UNBAL - VARIABLE

The level can be adjusted with the LEVEL adjustment knob (2) on the front panel.



● INPUT: BAL - VARIABLE

The level can be adjusted with the LEVEL adjustment knob (2) on the front panel.



● IN

Used to interlock the power on this product with the activation/deactivation of power on another device.
Connect these inputs to a Flying Mole product equipped with remote power control trigger outputs.

Turn "ON" the power switch of the amplifier to use the amplifier with cables connected to these connectors.

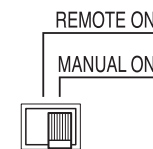
* Refer to the owner's manuals of the devices to be connected as well.
* These connectors cannot be used with products from other manufactures or for other purposes than the above-mentioned purpose.

8 MODE Selector

Used to switch if the power is controlled by the POWER switch or by REMOTE POWER CONTROL trigger signals.

● MANUAL ON MODE

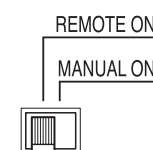
The power is turned ON or OFF with the POWER switch (1) on this product.



* The power is not switched by REMOTE POWER CONTROL trigger signals.

● REMOTE ON MODE

The power is interlocked with the activation/deactivation of power on the device connected to the REMOTE POWER CONTROL (IN) of this product.



* Set the POWER switch (1) of this product to ON position.
The REMOTE POWER CONTROL function does not work if the POWER switch (1) is turned OFF.

4 SPEAKER Outputs

Used to connect the output signal from the amplifier. Connect to the speaker with SP cables.

5 OUTPUT Connector (Balanced)

When balanced signals are input, the same signals as the input signals are output. The signal arrangement of the BALANCE OUTPUT on this product is:

- 1: GND
- 2: HOT, and
- 3: COLD

6 AC IN CONNECTOR

Used to connect the supplied AC power cable to the amplifier. Connect the other end of the AC power cable to household AC outlet.

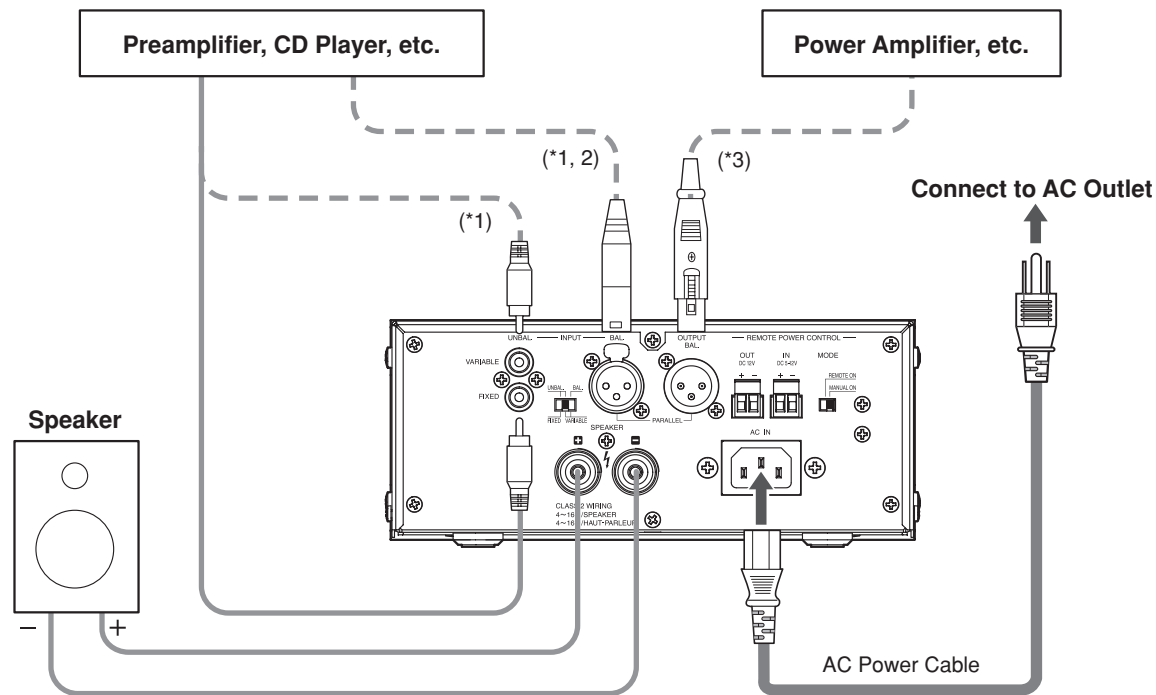
7 REMOTE POWER CONTROL Connectors

● **OUT**
Used to interlock the power on the device connected to this product with the activation/deactivation of power on this product. Connect these outputs to a Flying Mole product equipped with remote power control trigger inputs.

4 Connections

Connecting Devices

- Make sure the power of all related equipments is turned off, when wiring and checking their polarity.
- Make sure that the cable is not shorted, when connecting the speaker cable.
- Connect the power cable after all connections are complete.



- (* 1) Select an input with the selector on the rear panel of the amplifier.
- **FIXED** (The LEVEL adjustment knob on the front panel is bypassed.)
 - **VARIABLE** (The level can be adjusted with the LEVEL adjustment knob on the front panel.)
 - **BAL** (The level can be adjusted with the LEVEL adjustment knob on the front panel.)

- (* 2) XLR cables can be used to connect BALANCE outputs of a CD player, preamplifier, etc. The signal arrangement of the BALANCE INPUT on this product is:

1: GND, 2: HOT, and 3: COLD

- (* 3) When balance signals are input, the same signals as the input signals are output. The signal arrangement of the BALANCE OUTPUT on this product is:

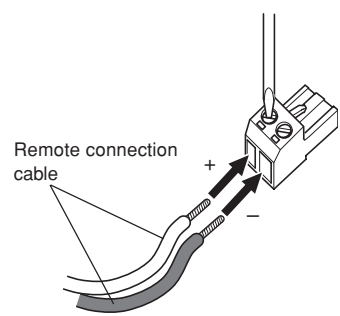
1: GND, 2: HOT, and 3: COLD

Connection of the REMOTE POWER CONTROL Trigger

By connecting the REMOTE POWER CONTROL Trigger, the activation/deactivation of power on a Flying Mole power amplifier equipped with REMOTE POWER CONTROL Trigger Input can be interlocked with the activation/deactivation of power on this device. Refer to the owner's manuals of the devices to be connected as well before connecting cables.

1. Remove the attachment to the REMOTE POWER CONTROL connectors.
2. Remove insulation material around the ends of the supplied remote connection cables and twist the wires until they are stranded securely.
3. Insert the wires into the holes in the attachment and tighten the screws to fix the cables. (**Be sure to check polarity before connection**)

* Connect the other ends of the cables to the connector for the device whose power is to be interlocked as in the steps 1 to 3 above. (The connector is also attached to the device to be connected.)



* Be sure to check polarity before connection.
Connect the black cable to the negative terminal.

4. Connect the connectors to the REMOTE POWER CONTROL connectors of the amplifier and of the other product.
 - To control the power of the amplifier from the other product, connect the connectors to the "IN" of this product and to the "OUT" of the other product.
 - To control the power of the other product from this product, connect the connectors to the "OUT" of the amplifier and to the "IN" of the other product.

* Commercially available vinyl insulated cables can be used as well. • Compatible cable type is AWG24 to AWG12. Refer to the steps 1 through 4 above when connecting cables and make sure that the polarity is correct.

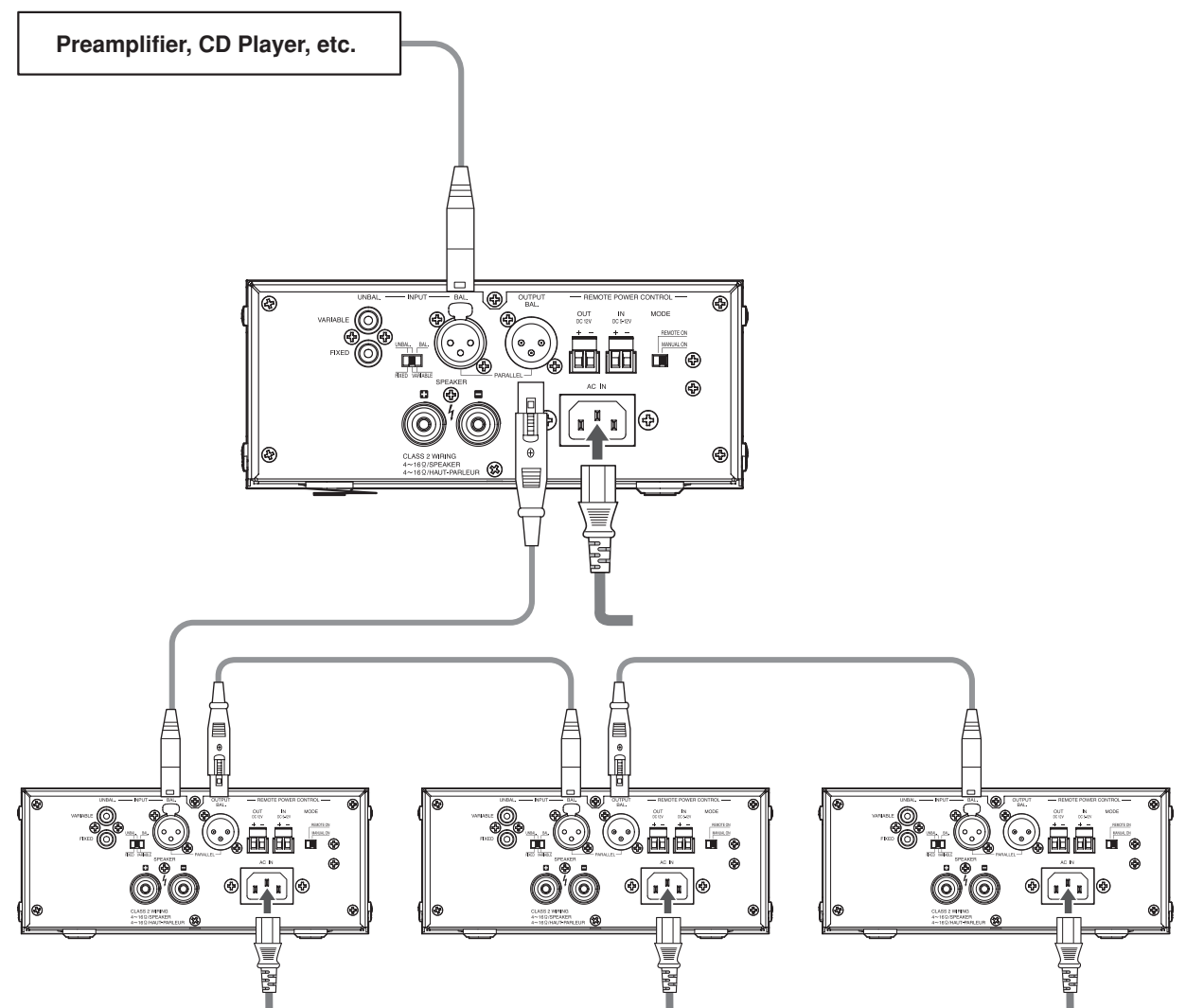
- This product should be placed close to the main source of electrical power (wall outlet in your house) and keep the power plug within reach.

- Connectors names may be different from this manual.

* Refer to the owner's manuals of the equipments to be connected as well.

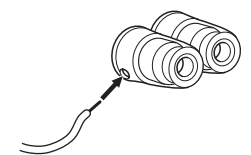
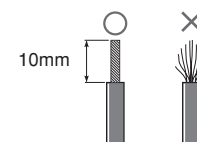
(* 4) BALANCE SIGNAL PARALLEL CONNECTION

Outputs from a preamplifier or a CD player can be input to more than one power amplifiers by connecting as shown below. Power can be interlocked by using REMOTE POWER CONTROL trigger connectors. (Refer to the "Connection of the REMOTE POWER CONTROL Trigger" section for information about REMOTE POWER CONTROL.)



Connecting a Speaker Cable

1. Strip the cover of the cable by about 10mm (3/8").
2. Twist the wires until they are stranded securely.
3. Turn a speaker connector counterclockwise to loosen it.
4. Insert the whole stranded wires of the cable and turn the speaker connector clockwise to tighten it.



* Twist the wires of the speaker cable until they are stranded securely and take care not to leave any part of the stranded wires out of the speaker connector when connecting the speaker cable. If the wires come in contact with the rear panel or the wires at the positive terminal come in contact with the wires at the negative terminal, the protection circuit may be activated to stop the normal operation of the product.

Caution

- This product has DC amplifier circuit construction. (Sound signal goes through no capacitor from input to the speaker output.) Therefore, a little noise may be heard when the power is turned on or off depending on the connected device.

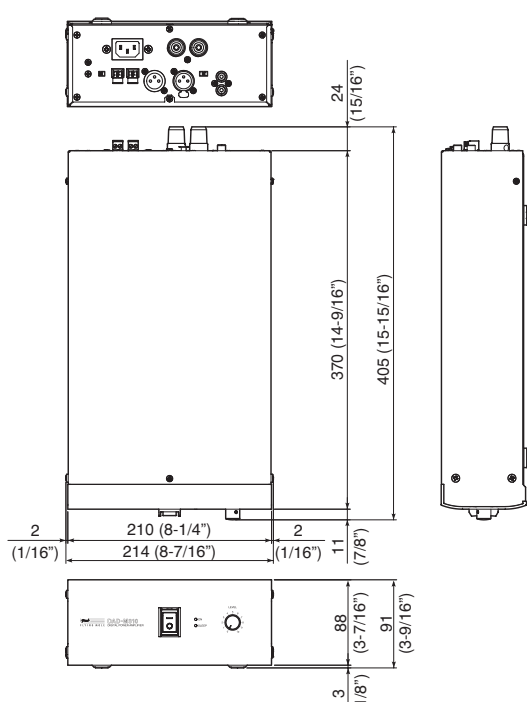
5 Specifications

Rated Output	300W / 4Ω, 100W / 8Ω
Total Harmonic Distortion	0.05% (@90W/8Ω / 1kHz)
Frequency Response	DC-20kHz (+0dB / -0.5dB) / 8Ω DC-50kHz (+0dB / -3dB) / 8Ω
S/N Ratio	120dB (IHF-A, INput short-circuited)
Input Sensitivity	UNBAL : 1V / BAL : 2V
Input Impedance	FIXED : 100kΩ, VARIABLE : 47kΩ (BAL / UNBAL, Vol MAX)
Power Consumption	55W
Power Supply	AC 120V 60Hz (U.S.A.) / AC 230V 50Hz
Use Environment	0°C - 40°C
Dimensions inch / mm	8-7/16" (W) x 3-9/16" (H) x 15-15/16" (D) / 214 (W) x 91 (H) x 405 (D)
Weight	4.0 kg (8.8 lbs)

* Nameplate is on the bottom of the product.

* Due to product improvement, specifications and/or product design are subject to change without notice.

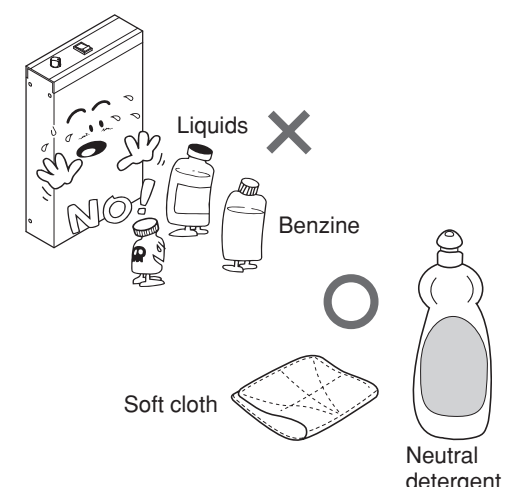
6 Dimensions



Unit: mm (")

7 Maintenance

Never use liquids such as benzene, thinners, etc., chemically treated cloths, and do not spray any aerosol type insecticides on the amplifier. Clean the case using only a soft, dry cloth. If the amplifier becomes soiled, mix a solution of water and a neutral detergent then dampen a soft cloth in the solution, wring out as much of the solution as possible, and clean the amplifier. Then use a soft, dry cloth to wipe the surface dry.



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