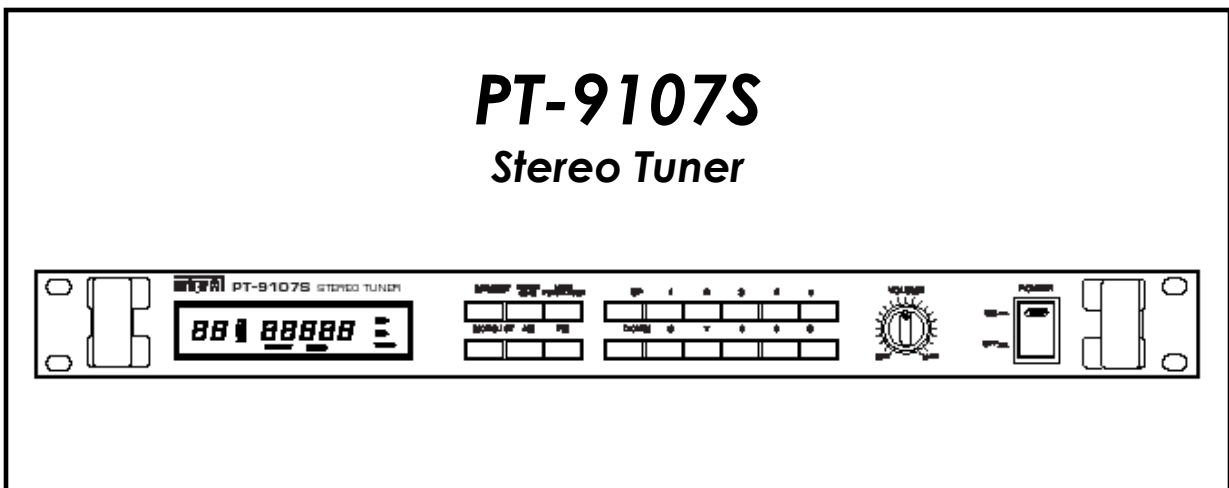


Operating Manual

PT-9107S Stereo Tuner



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interM

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Welcome

A personal welcome to you from the management and employees of Inter-M

Thank you for purchasing this fine Inter-M product. All of us here at Inter-M are dedicated to providing you with the highest quality products and the best value.

We sincerely trust this product will provide you with years of satisfactory service, but if anything is not to your complete satisfaction, we will endeavor to make things right.

Welcome to Inter-M, and thank you for becoming a part of our worldwide extended family!

Unpacking

Although your PT-9107S Stereo Tuner is neither complicated nor difficult to operate, we recommend you take a few minutes to read this brief manual and familiarize yourself with the important information regarding product features, setup and operation.

As with most electronic devices, we strongly recommend you retain the original packaging. In the unlikely event the product must be returned for servicing, the original packaging (or reasonable equivalent) is required.

Warnings




Environment

Never place this product in an environment that could alter its performance or reduce its service life. Such environments are usually characterized by high levels of heat, dust, moisture, or vibration.

Safety

1. Read these instructions carefully.
2. Follow all instructions.
3. Keep all warnings.
4. Do not operate this apparatus near water.
5. Clean only with a damp cloth.
6. Do not block any of the ventilation openings.
7. Install only in accordance with the instructions in this manual.

8. Do not install near any heat sources such as radiators, heat registers, stoves, or other devices (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 is 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 it is attached to the apparatus.
11. Use only the attachments/accessories specified.
12. Use only with a cart, stand, tripod, bracket, or table specified, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid overturning.
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 operate normally, or has been dropped.

 <p>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.</p>	 <p>This symbol 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.</p>
<p>WARNING</p> <p>To prevent fire or shock hazard, do not expose the unit to rain or moisture.</p>	 <p>This symbol is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying the appliance.</p>
<p>Caution: To prevent electric shock do not use this (polarized) plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.</p>	
<p>Attention: Pour prévenir les chocs électriques ne pas utiliser cette fiche polarisée avec un prolongateur, une prise de courant ou une autre sortie de courant, sauf si les lames peuvent être insérées à fond sans en laisser aucune partie à découvert.</p>	
<p>*Do not install this equipment in a confined space such as a book case or similar unit. *The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus. *Worded: "WARNING FOR YOUR PROTECTION PLEASE READ THE FOLLOWING-WATER AND MOISTURE: Unit should not be used near water(e.g. near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc). Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings."</p>	

Operation

Make certain that speakers and input sources are properly connected before switching on.

Keep volume levels at minimum gain before switching on.

NOTE: The system's operation is delayed by approximately three seconds after pressing the AC Mains power switch. This is due to the built-in protection circuitry, designed to protect speakers and other system components.

PT-9107S
Stereo Tuner

Features

High Performance Digital AM/FM Tuner

- Digital accuracy with FET (Field Effect Transistor) for high sensitivity.

Auto Scan Function

- Tuner automatically scans for available frequencies with the touch of a button.

20 Memory Locations, Preset Scan Function

- Tuner can save and recall 20 AM and 20 FM preset locations. Preset Scan mode to search only preset frequencies.

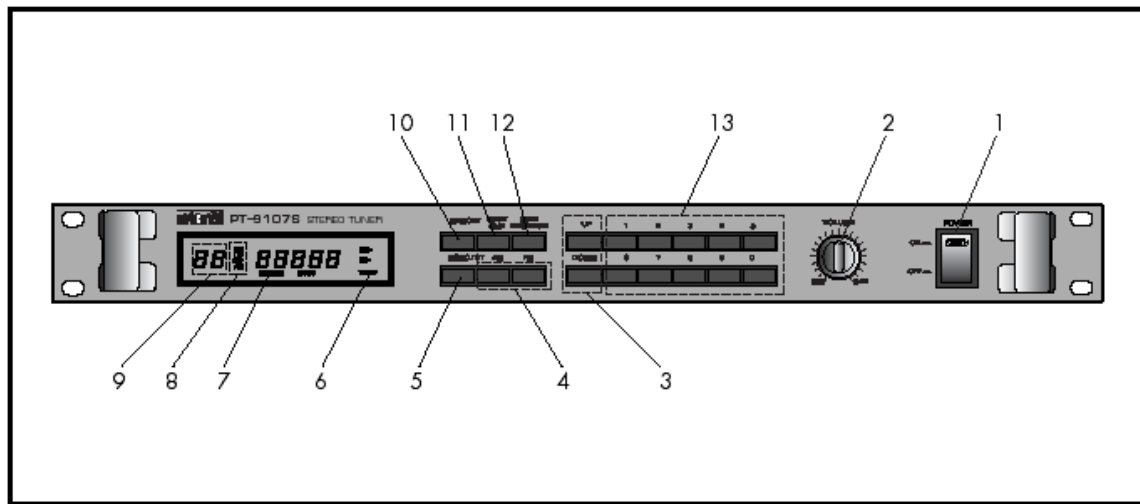
FM Stereo Muting

- FM Muting circuitry eliminates tuning noise between active frequencies.

Battery Backup

- Can be powered by 24VDC battery power for emergency backup or true portability.

Front Panel Controls



1. Power Switch

Pressing this switch switches the unit on, as indicated by the integrated LED. Pressing it again switches the unit off.

2. Volume

This knob controls the variable output level, as output to Variable Mono and Variable Stereo Outputs on rear panel.

3. Up and Down Switches

Pressing these switches will move the tuner to the next active frequency. Holding the switch down for more than one-half second will activate "Auto-Scan" mode, causing the tuner to scan, pausing for a few seconds at each active frequency. Pressing the Up or Down switch again will de-activate "Auto-Scan" mode.

4. Band Selector Switches

These switches are used to select the AM or FM frequency band. The status is indicated by the AM/FM Band Indicator LEDs (8).

5. Mono/Stereo Selector

This switch is used to select Mono or Stereo reception on the FM band.

6. Tuned Indicator

This LED lights when the tuner has locked in on an AM or FM frequency.

7. Memory Indicator

This indicator lights when the Memory Select Switch (10) has been pressed, indicating that the unit is ready to store a memory preset.

8. AM/FM Band Indicator LEDs

These LEDs indicate the currently selected band of AM or FM broadcast mode.

9. Preset Display

This LCD readout displays the currently selected preset.

10. Memory Select Switch

This switch is used in conjunction with the 10 Address Selector Switches (13) to enter the currently selected frequency into the designated memory address. To enter a frequency into memory:

- Select the desired frequency using the Up/Down switches (3).
- Press the Memory Select Switch. The Memory Indicator (7) will light.
- Press the desired Address Selector Switch (13).
- The current frequency will be stored in the selected address location.

Each Address Selector Switch can store two separate addresses. Pressing the Address Selector Switch twice will store the frequency in the second available memory bank for the selected address.

To recall a previously stored frequency, press the Address Selector Switch once. Pressing the Address Selector Switch twice will recall the second stored frequency for that address.

11. Preset/Scan

Pressing this switch once will scan through all stored frequencies, pausing for five seconds at each. Pressing the switch again while scanning will stop at the current frequency.

Pressing the switch and holding it will scan through all available frequencies. Pressing the switch again while scanning will stop at the current frequency.

12. Mode Preset/Tune

This switch toggles between Preset and Tune modes for the Up and Down Switches (3).

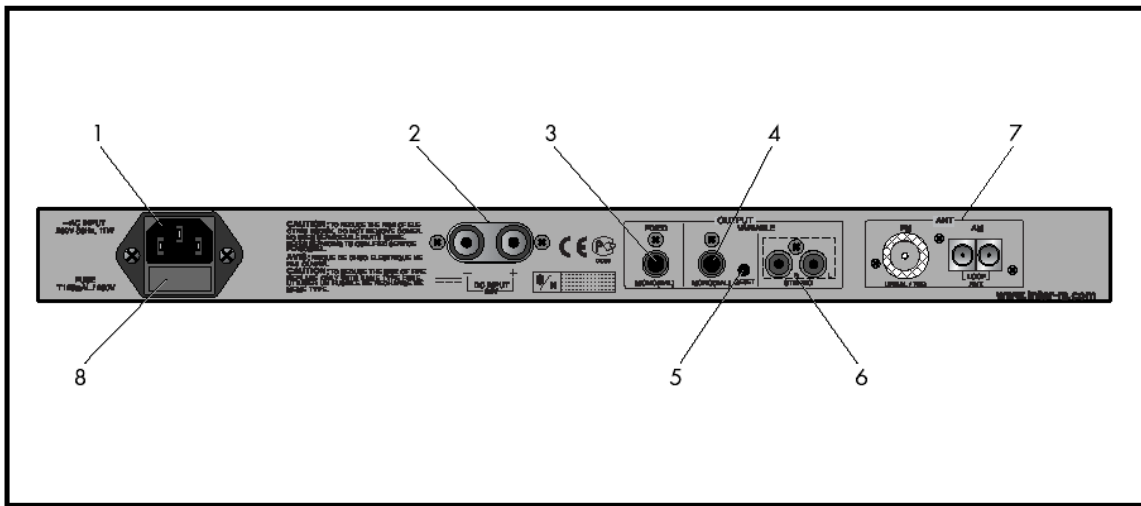
In Preset mode, pressing the Up or Down switch will move to the next active broadcast frequency.

In Tune mode, pressing the Up or Down switch will move incrementally, regardless of active broadcast frequencies.

13. Address Selector Switches

These switches work in conjunction with the Memory Select Switch (10) to store selected frequencies.

Rear Panel Controls



1. AC Connector

Connect the supplied standard AC input cable here.

2. DC Input Terminals

These terminals are provided for the connection of backup battery. Connect a 24VDC battery source to these terminals. Make certain the red terminal is connected to the battery's positive (+) side, and the black terminal to the battery's negative (-) side.

3. Fixed Mono Output

This output is provided for connection to the input of a preamp or mixer. The level of this output is fixed, and is not affected by the front-panel volume control.

4. Variable Mono Output

This output is provided for connection to the input of a preamp or mixer. The level of this output is variable, and is controlled by the front-panel volume control.

5. Reset

In the unlikely event that the unit displays an error message, switch off the front panel Power switch and then press and hold this switch for two-three seconds before switching the power back on.

6. Variable Stereo Output

This output is provided for connection to the input of a preamp or mixer. The level of this output is variable, and is controlled by the front-panel volume control.

7. Antenna Terminals

Connect external antennae here.
 FM: 75 Ω coaxial cable antenna.
 AM: 300 Ω loop antenna.

8. Fuse Holder

This holder contains the AC overload protection fuse. If the fuse has blown out, replace it with a fuse of the same type and rating.

If the fuse continues to blow, refer servicing to a qualified service technician.

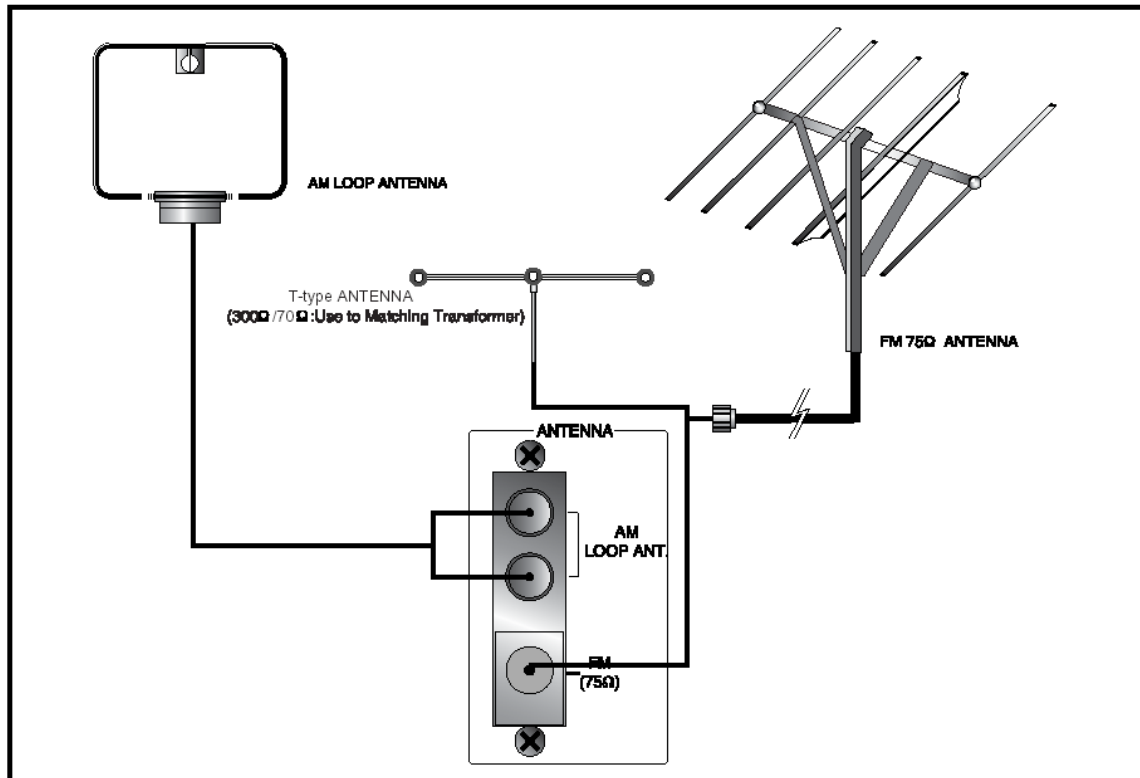
Connecting the Antenna

FM Antenna

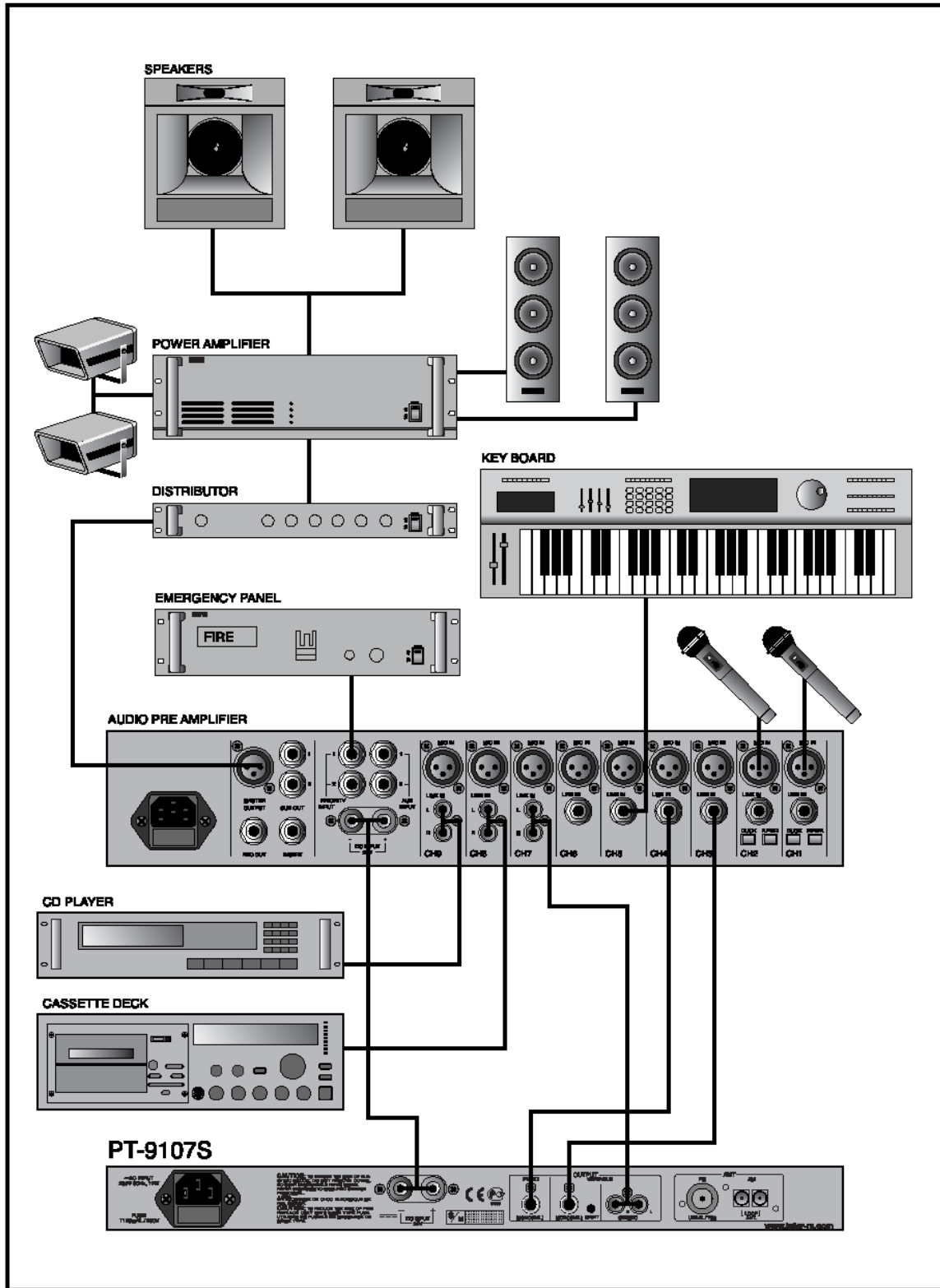
Connect the 75Ω FM antenna to the designated terminal on the rear of the unit. (See illustration below.)

AM Antenna

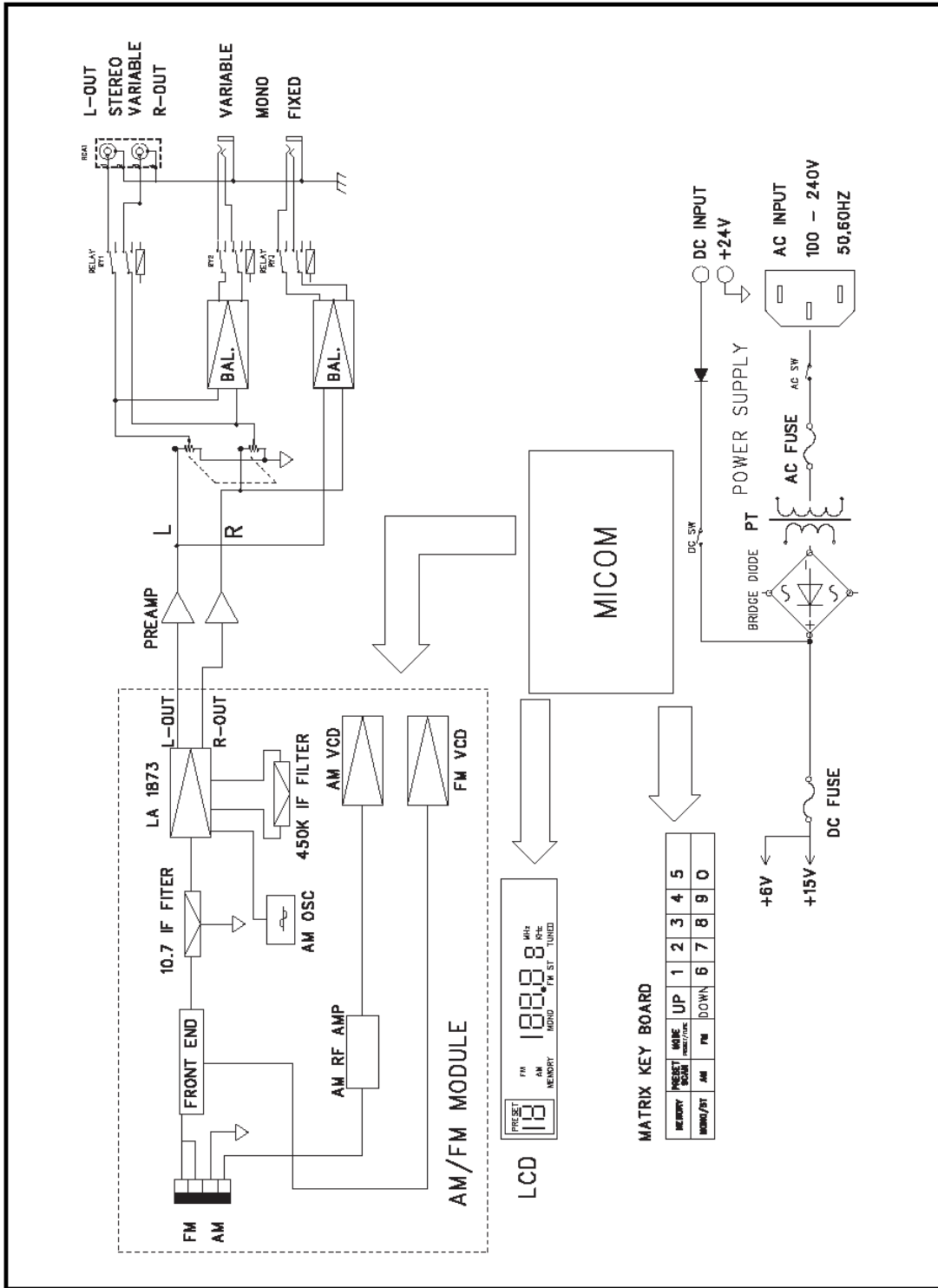
Connect the 300Ω AM loop antenna to the designated terminals on the rear of the unit. (See illustration below.)



Applications



Block Diagram



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Specifications

ELECTRICAL

Tuning Range	FM: 87.5-108MHz AM: 520-1620kHz
Usable Sensitivity	FM: less than 3 μ V AM: less than 100V
S/N	FM: Better than 65dB AM: Better than 40dB
T.H.D	FM: 0.3% AM: 1%
Output Level	
FM	Mono Balance: 1V (modul. 75kHz) Stereo: 500mV (modul. 75kHz)
AM	Mono Balance: 300mV (modul. 30%)
Antenna Input	FM: 75 Ω , AM Loop Antenna
Power Source	AC 100-120VAC or 220-240VAC, 50/60Hz, 24VDC
Power Consumption	11W
Weight	4.5 Kg (9.9 lbs)
Dimensions	482(W) x 44.5(H) x 280(D) mm 19(W) x 1.75(H) x 11(D) in.

Specifications and design subject to change without notice for improvements.



Inter-M, Ltd. (Korea) began operations in 1983.

Since then, Inter-M has grown to become one of the largest manufacturers of professional audio and commercial sound electronics equipment in the world.

Inter-M has gained worldwide recognition for its own branded products, as well as private label manufacturing of electronics sold under other names (OEM).

The company is no longer just a Korean company, but rather a global company that is truly international in scope, with factories and offices in Korea and China, and sales and marketing operations located in Japan, Europe, and the U.S.A.

With more than 850 employees around the globe, Inter-M is well-poised for further growth and expansion.

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