



# Precautions and contents

## WARNING

To prevent fire or shock hazard, do not expose this appliance to rain or moisture.

1-En

## Power requirements

Power requirements for electrical equipment differ from area to area. Please ensure that your unit meets the power requirements in your area. If in doubt, consult a qualified electrician.

230V, 50Hz for Europe.

2-En

## About the POWER switch

This unit is equipped with a primary power switch. Even when the units  STANDBY/ON button is set to STANDBY (off), the power supply to this unit is not completely turned off. If you wish to completely turn the power off, disconnect the power cord from the household AC outlet, or release the STANDBY mode by pressing the primary power switch (OFF).

4-En

PRODOTTO CONFORME AL D.M.  
28/8/95 N°548.

## IMPORTANT

This equipment is fitted with an approved non-rewireable UK mains plug.

To change the fuse in this type of plug proceed as follows:

- 1) Remove the fuse cover and old fuse.
- 2) Fit a new fuse which should be a BS1362 5 Amp A.S.T.A. or BS1 approved type.
- 3) Refit the fuse cover.

If the fitted plug is not suitable for your type of outlet sockets, it should be cut off and an appropriate plug fitted in its place. If the mains plug contains a fuse, this should have a rating of 5 Amp.

If a plug without a fuse is used, the fuse at the distribution board should not be greater than 5 Amp.

PLEASE NOTE:

**THE SEVERED PLUG MUST BE DESTROYED TO AVOID A POSSIBLE SHOCK HAZARD SHOULD IT BE INSERTED INTO A 13 AMP SOCKET ELSEWHERE**

The wires in this mains lead are coloured in accordance with the following code:

BLUE - NEUTRAL  
BROWN - LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, please proceed as follows:

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

**DO NOT CONNECT ANY WIRE TO THE PIN MARKED E OR  $\perp$  OR COLOURED GREEN OR YELLOW & GREEN WHEN WIRING THE PLUG.**

Ensure that all the terminals are securely tightened and no loose strands of wire exist.

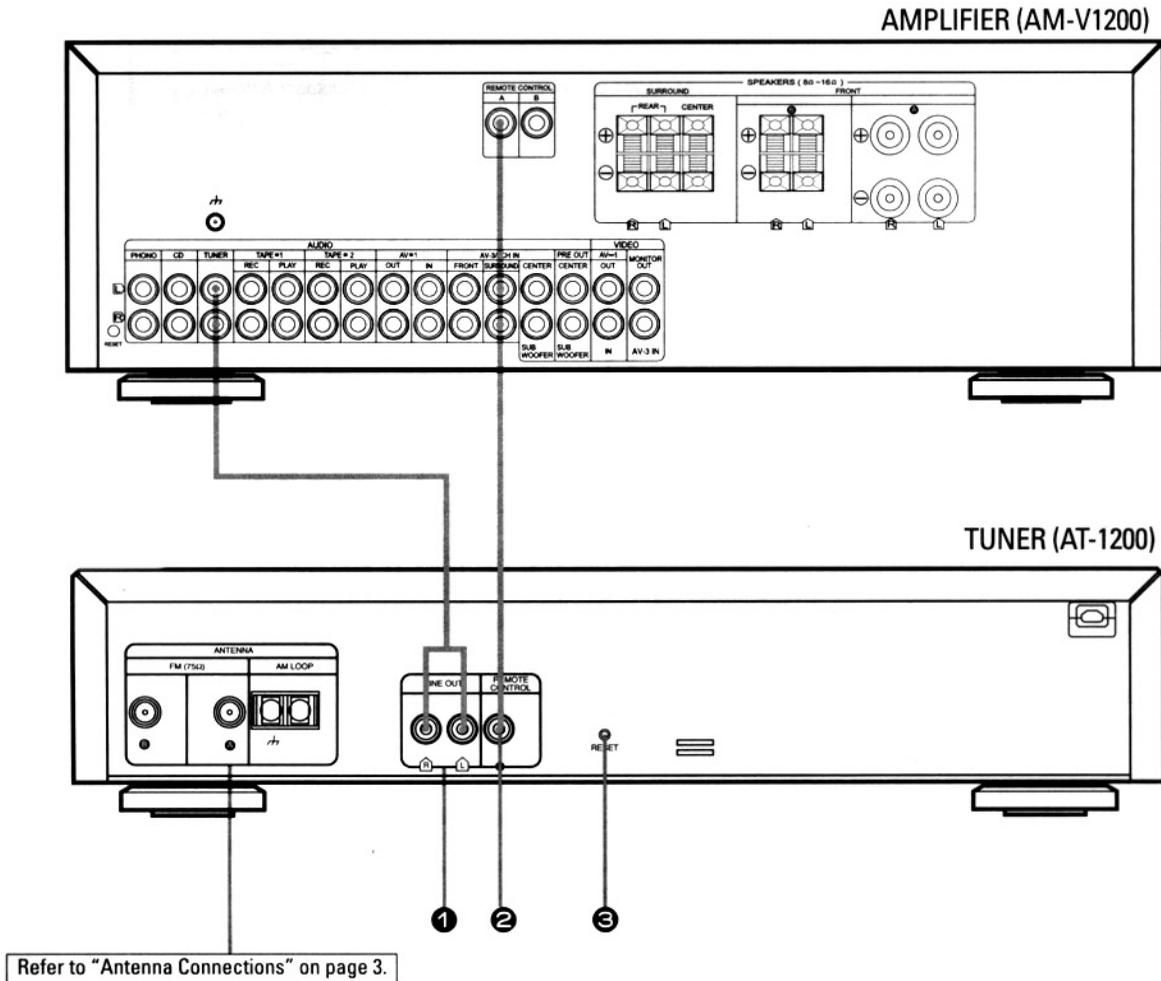
Before replacing the plug cover, make certain the cord grip is clamped over the outer sheath of the lead and not simply over the wires.

6C-En

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# Connections



### 1. LINE OUT jacks

Connect these jacks to the TUNER jacks on the amplifier :

- White pin-plug → White jack (left)
- Red pin-plug → Red jack (right)

### 2. REMOTE CONTROL jack

This jack is equipped for operating the system.  
Connect the jack A of this unit to the jack A of other unit either on or beneath this unit.

### 3. RESET Switch

● In the following cases, function buttons may not often work or may work improperly.

- 1) When the system is damaged by some electrical shock,
- 2) When the power is irregular or has electrical noises.

In these cases, try as shown below.

RESET switch



Press the RESET switch once or twice with a pencil or a ball-point pen lightly.

\* If you press this RESET switch, all the memories will be erased. In this case, try to preset stations again.

# Antenna Connections

## Installation of MW/LW antenna

### MW/LW indoor antenna

Connect an MW/LW antenna to the MW/LW antenna terminal on the rear panel. Without an MW/LW antenna, you cannot receive MW/LW broadcasting.

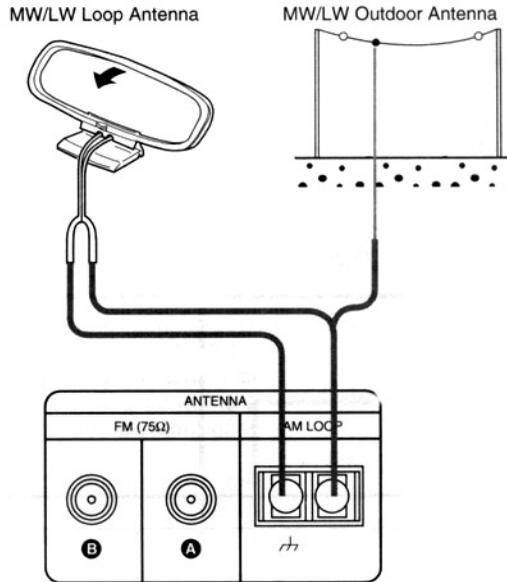
### Outdoor antenna

When you install an MW/LW outdoor antenna, it is recommended that you should avoid high-voltage cables, materials of metal, roadside and so on (mountains or places near a building) near the antenna.

It is better to install an antenna far away from high-voltage cables, valleys, or buildings.

### How to assemble MW/LW antenna

- Install it after assembling an antenna as shown.



## Installation of FM antenna A, B

### FM indoor antenna

If you live reasonably close to a transmitter and want to use the provided lead-type FM antenna, you will have to connect it direct to the "FM 75Ω" socket. Fit the metal sleeve of the lead-type antenna over the core(center) conductor of the "FM 75Ω" socket, extend the lead and fix it to a window frame or wall with thumbtacks, or the like, where reception is best.

### FM outdoor Antenna

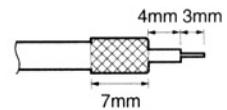
Generally, a 3-element antenna will be sufficient; if you live in an area where the FM signals are particularly weak, it may be necessary to use one with 5 or more elements. Connect the coaxial cable of the antenna to the matching transformer as shown. After completing connection, plug the transformer into the "FM 75Ω" socket.

### Caution

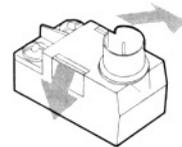
It is recommended that an outdoor antenna should be installed by an antenna expert.

### How to connect a coaxial cable to the matching transformer

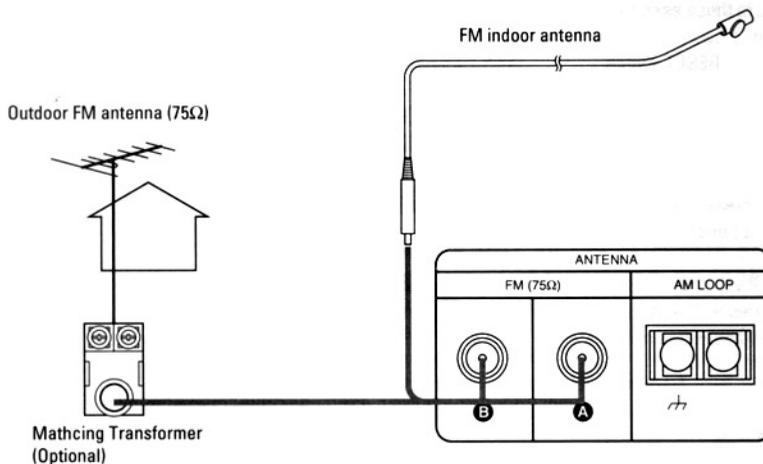
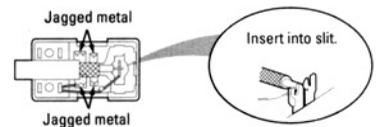
- ① Strip the cable and dress it as shown.



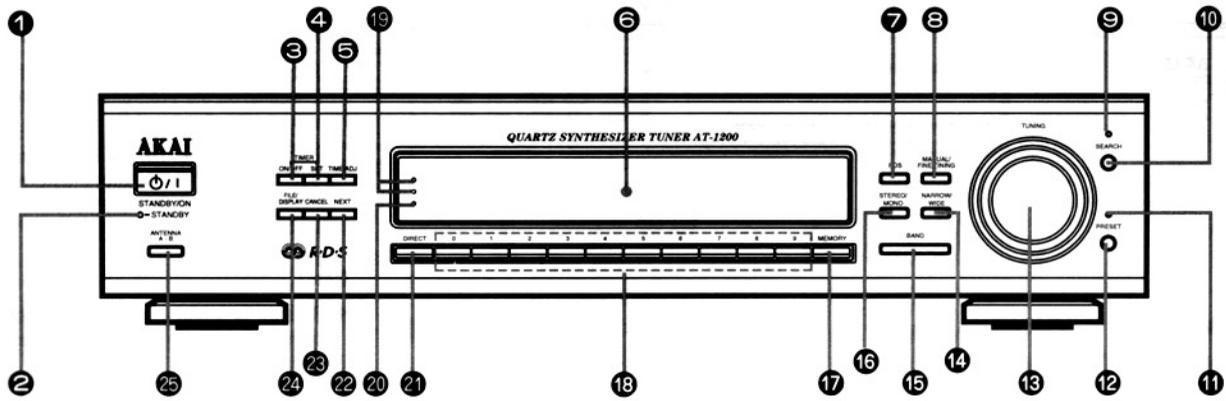
- ② Press both side tabs outward to remove the cover.



- ③ Wrap the core conductor around the central metal fixture as shown. Crimp the jagged metal fixtures so they hold the braided portion using pliers, etc. Put the cover back in place.



# Controls and Functions



**1. Power STANDBY/ON button**

**2. Power STANDBY indicator**

This indicator lights up in the power standby mode; goes out when this unit is turned on.

**3. TIMER ON/OFF button**

This button is used for engaging the daily timer function.

**4. TIMER SET button**

This button is used for presetting the time when the system is turned on and off every day at a specified time.

**5. TIME ADJUST button**

This button is used for adjusting current time.

**6. Display**

**7. RDS mode button**

(See pages 8 and 9.)

**8. MANUAL/FINE TUNING button**

This button is used for selecting the manual tuning or the fine tuning mode. Fine tuning mode is available only in FM band.

**9. SEARCH indicator**

**10. SEARCH button**

This button is used for selecting the auto tuning mode.

**11. PRESET tuning indicator**

**12. PRESET tuning button**

This button is used for selecting the preset tuning mode.

**13. TUNING control**

This control is used for tuning in the desired broadcasting stations or adjusting the time, or manual filing, etc.

**14. NARROW/WIDE bandwidth selection button**

This button is used for selecting the bandwidth of an FM broadcast.

**15. BAND selection button**

This button is used for selecting FM, MW or LW broadcasts.

**16. STEREO/MONO mode selection button**

This unit automatically switches into the stereo mode when an FM stereo broadcast is received. Press this button to change the mode to monaural mode, then the "STEREO" indicator will go out on the display.

**17. MEMORY button**

This button is used for presetting the broadcasting stations.

**18. numeric buttons (0-9)**

These buttons are used for selecting the desired broadcasting frequencies or preset channels directly, or presetting broadcasting stations.

**19. ANTENNA A/B indicator**

**20. NARROW bandwidth indicator**

**21. DIRECT button**

This button is used for selecting broadcasting frequencies directly with numeric buttons(18).

**22. NEXT button**

This button is used for advancing to the next step during time adjustment or manual filing, etc.

**23. CANCEL button**

This button is used for cancelling the program during manual file or adjusting the ON/OFF time of the timer.

**24. FILE/DISPLAY mode button**

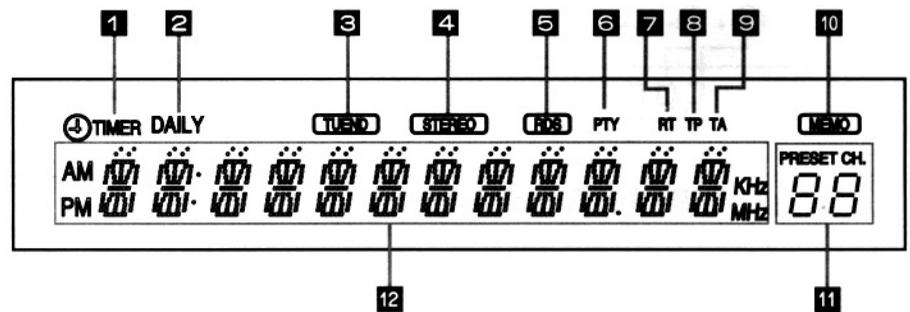
This button is used for manual filing, or selecting the display mode.

Press this button slightly longer (for more than 1.5 second) to file in manually station's name in the preset memory.

**25. ANTENNA A-B selection button**

This button is used for selecting the antenna connected to the FM ANTENNA terminal ("A" or "B") on the rear panel.

## DISPLAY



**1 Timer indicator**

This indicator illuminates while the daily timer is engaged by pressing the timer button

**2 DAILY timer indicator**

**3 TUNED Indicator**

**4 STEREO indicator**

**5 RDS indicator**

**6 PTY (PROGRAM TYPE) indicator**

**7 RT (RADIO TEXT) indicator**

**8 TP (TRAFFIC PROGRAM) indicator**

**9 TA (TRAFFIC ANNOUNCEMENT) indicator**

**10 MEMORY indicator**

**11 PRESET CHANNEL indicator**

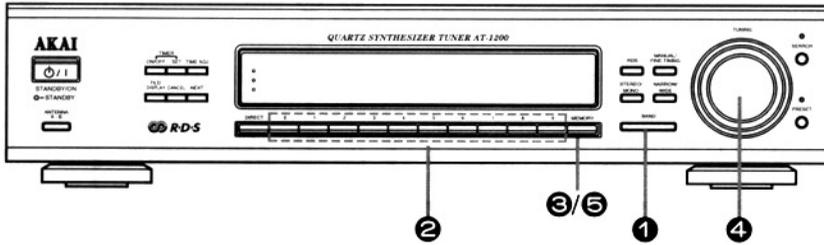
**12 Multiple character indicator**

A variety of information is displayed on this indicator: time, frequency, PS, PTY, RT, station's name by manual filing etc.

\* If you press briefly File / Display button within 1.5 seconds during File / Signal Level / Clock display, the clock display will be changed as follows:



## Manual Memory Presetting



### ■ When all the programs are erased.

If the power has not been supplied for more than 2 weeks, all the programs you have memorized will be erased.

If this occurs, preset the broadcasting stations again, and do not interrupt the power source for more than 3 days to recharge the built-in back-up battery.

### Note :

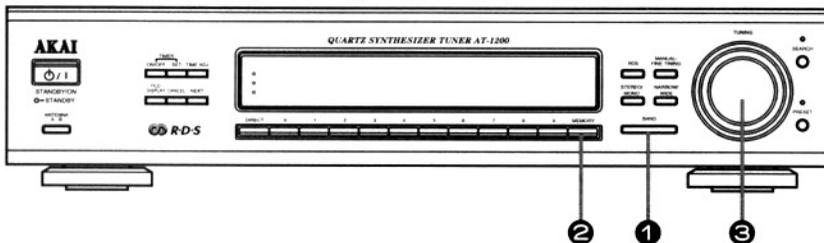
- Be sure to select antenna A or B for memorization when you preset manual memory in FM broadcast.

### For example

Presetting FM 89.10 MHz to channel 10.

- 1 Select the FM band.
- 2 Tune to 89.1MHz by using the numeric buttons.
- 3 Press the MEMORY button briefly (for less than 0.5 second).  
Then "MEMO" will blink in the Display.
- 4 Select CH "10" by using the numeric buttons.

## Automatic Memory Presetting

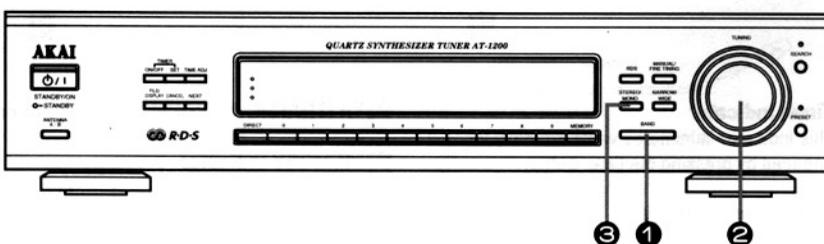


### Notes :

- In the case of FM automatic presetting, the ANTENNA A-B selector is set to "A" automatically, and broadcasting stations are scanned twice. The stations that have stronger broadcasting signal are preset in the first time ; weaker ones are preset in the second time.
- If a new broadcasting station is preset into a channel, the broadcasting station which has been preset into that position earlier will be automatically erased.
- In mountainous or remote areas, broadcasting stations which have weak broadcasting signals cannot be automatically preset into the memory.
- 30 broadcasting stations each for FM, MW and LW bands can be preset.

- 1 Select the desired broadcasting band (FM, MW or LW).
- 2 Press the MEMORY button slightly longer (for more than 1.5 second).  
Then broadcastings will be automatically received, and as many broadcasting stations as are received well will be memorized from channel 1 one after another.
- 3 Check the preset broadcasting stations by using the TUNING control or numeric buttons.

## Listening to Radio Broadcasts



### 3 FM broadcasting is set up to STEREO

If the broadcast signal is weak, or if there is a large amount of interference in FM stereo broadcast, change the mode to monaural mode by pressing this button.

### 4 Select the FM bandwidth

Select the NARROW bandwidth by pressing this button if the broadcast signal is interfered with adjacent stations in FM mode.

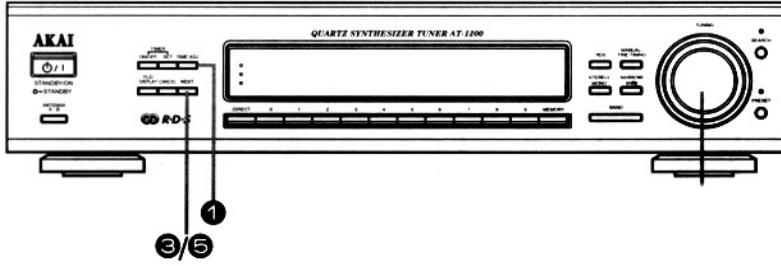
### Note :

- Be sure to turn off the power of the CD player while listening broadcasting. Otherwise, it may cause some noise, resulting in poor radio reception.

- 1 Select FM, MW or LW as you want to listen to.
- 2 Tune to the desired broadcast by using the TUNING control or numeric buttons.

## Adjusting Current Time

You can adjust the current time regardless of power on/off.



**1 Press the time adj button.**

Then "Hour display" indicator will blink.

12:00

**2 Set the hour to "10"(o'clock) using tuning control knob.**

10:00

**3 Press the next button.**

Then "Minute display" indicator will blink.

10:00

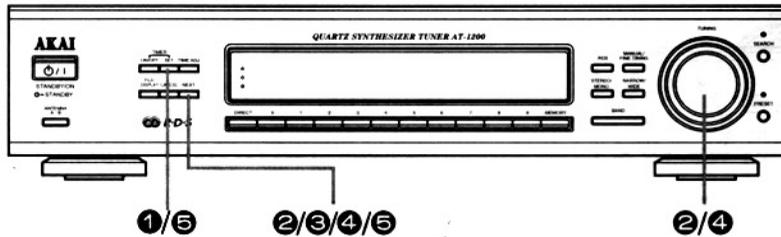
**4 Set the minute to "55" (minutes).**

10:55

**5 Press the next button.**

- If you press the time adj button after or during the minute adjustment, adjustment will be completed.
- If you don't proceed to the next operation within 8 seconds after "Hour display" indicator begins to blink, current time adjustment will be cancelled.

## Daily Timer



**1 Press the SET button.**

DAILY 12:00 ON TIME

**Presetting ON time : 7:15**

**2 Preset the ON timer by using tuning control and the next button.**

DAILY 7:15 ON TIME

**3 Press the next button.**

**Presetting OFF time : 9:30**

**4 Preset the OFF timer by using tuning control and the next button.**

DAILY 9:30 OFF TIME

**5 Press the next button and the set button.**

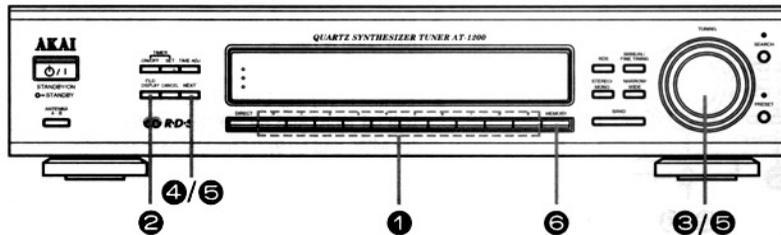
Presetting is completed.

DAILY 10:58

Current Time

- \* Daily timer makes the system turn on and off at preset times every day.
- \* If you want to record at ON time, select the desired source with the input selector and then set the timer switch on the cassette deck DX-1200 to the rec position.
- \* If the timer indicator "TIMER DAILY" is off, the daily timer doesn't work.
- \* While setting the daily timer, if the CANCEL button is held depressed, the timer function will be cancelled.

## Filing



**For example)**

FM 98.80 MHz, Preset Ch 01.

Station name : BBC 1

TUNED STEREO

FM 98.80 MHz 01

**1 Select channel 01 in the preset mode.**

**2 Press the file button long (for more than 1.5 second).**

Then "----" will be displayed in the clock indicator.

10:58 → ----

**3 Select "B" with the tuning control.**

B ---

**4 Press the next button, and then the cursor will move one space.**

B B --

**5 After selecting "BBC 1" with the tuning control and the next button, press the next button.**

BBC 1

**6 Press the memory button, and then the broadcasting station name will be changed to "BBC 1".**



## RDS Display

- 1 Select the FM broadcasting.  
RDS can be received only in FM.
- 2 Select the RDS broadcasting by use of the tuning mode button and the tuning control. Then RDS will light up in the upper side of the display. And the related data, if received, will be displayed in the type of received data (PTY, RT, TP, TA).
- 3 RDS
  - 1) The default the RDS mode is PS.
  - 2) Press the RDS mode button.  
Each time you press the button briefly(1.5 sec or less), the modes will change as follows regardless of the current mode.



### 3) PS mode

- When you select PS with the RDS mode button, "PS" will blink for about 4 seconds.
- After 4 seconds, PS or a station name entered by manual file will be displayed.

### 4) PTY mode

- When you select PTY with the RDS mode button, PTY will blink for about 4 seconds. After 4 seconds, the type of received PTY will be displayed.
- If there is no PTY data among received broadcasting, RDS mode will be switched to PS mode automatically.

### 5) RT mode

- When you select RT with the RDS mode button, "RT" will blink for about 4 seconds. After 4 seconds, the data of received RT will be displayed.
- If there is no RT data among received broadcasting, RDS mode will be automatically switched to PS mode.

### 6) TA mode (TP Search Function)

- When you select TA by use of the RDS mode button, "TA" will blink for about 4 seconds. After 4 seconds, TP received broadcasting will be searched with FM frequency increasing in 50kHz steps.
- If TP received broadcasting is searched, the increase in frequency will stop and it is asked whether TA will be received or not.
- When TA is received, the input selector of the amplifier will be automatically switched to the tuner.
- When TA has finished, the input selector of the amplifier will automatically return to the previous position.
- If TP and TA turn off while you are receiving TA, the tuner will search TA broadcasting again with FM frequency increasing in 50kHz steps.

### 7) CT mode

- When you select CT with the RDS mode button, "CT" will blink for about 4 seconds. After 4 seconds, the clock time together with the frequency will be displayed.

\* CT can be received regardless of whichever RDS mode the tuner is set to.

## PTY Search

- 1 Press the RDS mode button for longer than 1.5 second.  
Then "SEARCH" will be shown in the display.
- 2 Select the desired PTY mode by using the tuning control.
- 3 - If you press the next button, the PTY mode will blink in the clock display.  
- Searching will start when you turn the tuning control.  
- When the PTY mode that you have selected is searched, searching will stop and the PTY mode will be displayed.  
- If there is no program in the PTY mode you have selected, searching will stop at the frequency started.

### \* Not to use CT Mode,

- 1 Press and hold RDS button for longer than 8 seconds, and press briefly RDS button within 0.5 seconds.

- The indicator will be changed as follows :



- In this mode, although "CT DATA" are entered, the time is not changed to the current time.

- 2 In "NO CT" Mode, press and hold RDS button for longer than 8 seconds.

- The indicator will be changed as follows :



## Troubleshooting Guide

Before calling on service, check through the chart below for probable causes of problems you experience. Some simple checks, or a minor adjustment, might resolve the problems. If you are still in doubt about some of the check points, or cannot solve the problems by yourself, refer to a service center.

Symptom	Probable cause(s)	Suggested Remedy
No sound.	INPUT SELECTOR of amplifier is not set to "TUNER".	Select "TUNER" in INPUT SELECTOR.
	VOLUME of amplifier positioned in "MIN".	Adjust VOLUME accordingly.
	The terminal for system connection is pulled out.	Connect the terminal for system connection correctly.
Only noise is heard.	The antenna is pulled out.	Connect the antenna on the rear panel.
	The frequency is not detected exactly.	Set the frequency correctly.
Broadcasting is received but with noise.	The position of antenna is not suitable.	Install the antenna again after locating the best reception position.
	The power of CD is turned on.	Turn off CD.
The preset call buttons on the remote control do not work.	The remote control is set to a mode other than tuner.	Select tuner on the remote control.

## Specifications

### FM Section

#### Frequency Range:

87.50MHz to 108.00 MHz  
(50kHz steps : Manual)  
(10kHz steps : Fine, Max :  $\pm 50$ kHz)

#### Sensitivity(S/N 30dB) : 1.2 $\mu$ V

#### Total Harmonic Distortion (1kHz)

Mono : 0.08%  
Stereo : 0.15%

#### Signal-to-Noise Ratio (IHF)

Mono : 80dB  
Stereo : 75dB

#### Selectivity ( $\pm 400$ kHz)

Narrow/Wide : 80dB/65dB

#### Frequency Response : 20Hz to 15kHz (+1dB/-3dB)

#### Image Rejection : 70dB

#### AM Suppression : 55dB

#### Stereo Separation(1kHz): 50dB

### MW Section

#### Frequency Range :

522kHz to 1,620 kHz (9kHz steps)

#### Sensitivity (S/N 20dB) : 50dB

#### Signal-to-Noise Ratio : 45dB

#### Total Harmonic Distortion : 0.8%

#### Image Rejection : 35dB

### LW Section

#### Frequency Range:

146kHz to 290 kHz (1kHz steps)

#### Sensitivity (S/N 20dB) : 57dB

#### Signal-to-Noise Ratio : 40dB

#### Total Harmonic Distortion : 1.0%

#### Image Rejection : 35dB

### General

#### Power Requirement : 230V, 50Hz

#### Power Consumption : 9W

#### Dimension (W $\times$ H $\times$ D) : 430 $\times$ 96 $\times$ 336 mm

#### Weight (Net) : 3.8 kg (net)

### Standard Accessories :

Remote Control Connection Cord  $\times$  1

Audio signal Connection Cord  $\times$  1

FM indoor antenna  $\times$  1

AM indoor antenna  $\times$  1

### Notes:

- Improvements may result in specification or feature changes without notice.
- Photos and illustrations may differ slightly from production models.

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