

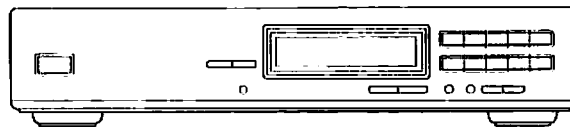
T-4040

T-4211

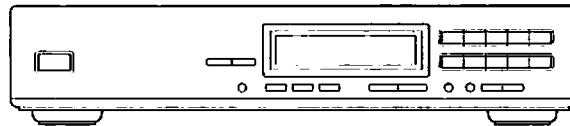
Quartz Synthesized FM Stereo/AM Tuner

Instruction Manual

T-4040



T-4211



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Thank you for your purchase of the Onkyo T-4040/T-4211 Tuner.

Please read this manual thoroughly before making connections and turning power on.

Following the instructions in this manual will enable you to obtain optimum performance and listening enjoyment from your new T-4040/T-4211.

Please retain this manual for future reference.

Features

■ Outstanding Sensitivity and Selectivity

One major reason for the T-4040/T-4211's superb sensitivity and tuning precision is its RF section which uses varactor diodes "ganged" through the single tuning voltage source. This uncompromising design, coupled with MOSFETs, a dual local oscillator buffer and mechanical isolation of circuit boards gives the T-4040/T-4211 the sharp, precise reception that listeners have come to expect from Onkyo tuners.

■ Stations Come in Loud and Clear

Onkyo's proprietary Automatic Precision Reception (APR) system is a tuner design innovation that uses a special micro-processor, surrounded by costly, first-class circuitry. It brings you the finest in clean, crisp, drift-free FM reception by constantly analyzing the quality of the incoming signal, sensing the signal's strength and noise content, as well as possible interference from adjacent channels. On the basis of this analysis, the APR circuits then make several "intelligent" decisions regarding selectivity (to minimize interference from neighboring stations), channel blending (to minimize noise and distortion), and sensitivity (to maximize long-distance reach while preventing overloads from nearby stations).

■ RDS Hits the Radio Waves. (T-4211 European model only)

- 3 Station Group Presets
- 30 FM/AM Random Presets
- Direct Access Tuning

FOR EUROPEAN MODEL

Declaration of Conformity

We, ONKYO EUROPE
ELECTRONICS GMBH
INDUSTRIESTRASSE 18/20
82110 GERMERING,
GERMANY



declare in own responsibility, that the ONKYO product described in this instruction manual is in compliance with the corresponding technical standards such as EN55013, EN55020, EN60555-2, EN60065

GERMERING, GERMANY

H. Yamazoe

H. YAMAZOE

ONKYO EUROPE ELECTRONICS GMBH

FOR CANADIAN MODEL (POUR LE MODELE CANADIEN)

- For models having a power cord with a polarized plug.
CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.
- Sur les modèles dont la fiche est polarisée.
ATTENTION: POUR ÉVITER LES CHOCs ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

ATTENTION FOR BRITISH MODEL

Replacement and mounting of an AC plug on the power supply cord of this unit should be performed only by qualified service personnel.

IMPORTANT:

The wires in the 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 appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

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

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

IMPORTANT

A 5 amp fuse is fitted in this plug. Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5 amps and that it is approved by ASTA or BSI to BS 1362. Check for the ASTA mark or the BSI mark on the body of the fuse.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG SHOULD BE CUT OFF AND DISPOSED SAFELY. THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.

If in any doubt please consult a qualified electrician.

Supplied accessories



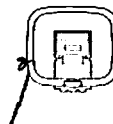
RI cable (1)



Audio connection cable (1)

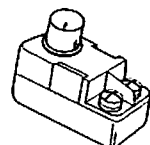


T-shaped FM antenna (1)

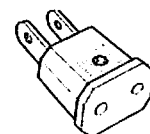


AM loop antenna (1)

The following accessories are only available for T-4211.



75/300 ohm antenna adapter (1)
(except European model)



AC adapter (1)
(worldwide model)

“WARNING”

“TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.”

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.”



WARNING

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**



- 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 product.

Important safeguards

1. **Read Instructions** – All the safety and operating instructions should be read before the appliance is operated.
2. **Retain Instructions** – The safety and operating instructions should be retained for future reference.
3. **Heed Warnings** – All warnings on the appliance and in the operating instructions should be adhered to.
4. **Follow Instructions** – All operating and use instructions should be followed.
5. **Water and Moisture** – The appliance should not be used near water – for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, and the lake.
6. **Carts and Stands** – The appliance should be used only with a cart or stand that is recommended by the manufacturer.
- 6A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
7. **Wall or Ceiling Mounting** – The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
8. **Ventilation** – The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or if placed in a built-in installation, such as a book case or cabinet that may impede the flow of air through the ventilation openings, there should be free space of at least 20 cm and open up behind the appliance.
9. **Heat** – The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
10. **Power Sources** – The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
11. **Polarization** – If the appliance is provided with a polarized plug having one blade wider than the other, please read the following information: The polarization of the plug is a safety feature. The polarized plug will only fit the outlet one way. If the plug does not fit fully into the outlet, try reversing it. If there is still trouble inserting it, the user should seek the services of a qualified electrician. Under no circumstances should the user attempt to defeat the polarization of the plug.
12. **Power-Cord Protection** – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, especially near plugs, convenience receptacles, and the point where they exit from the appliance.
13. **Cleaning** – The appliance should be cleaned only as recommended by the manufacturer.

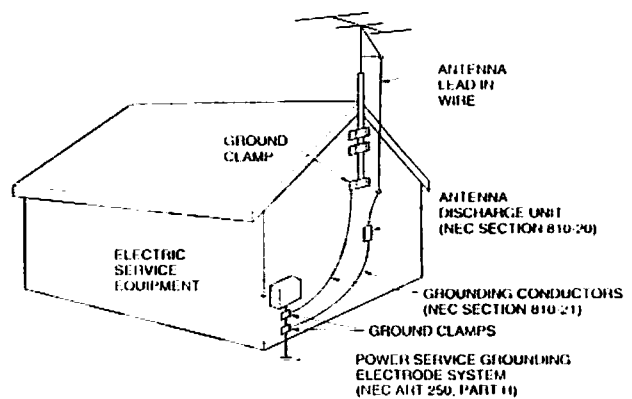
PORTABLE CART WARNING



S3125A

14. **Power Lines** – An outdoor antenna should be located away from power lines.
15. **Nonuse Periods** – The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
16. **Object and Liquid Entry** – Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
17. **Damage Requiring Service** – The appliance should be serviced by qualified service personnel when:
 - A. The power-supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has been spilled into the appliance; or
 - C. The appliance has been exposed to rain; or
 - D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
 - E. The appliance has been dropped, or the enclosure damaged.
18. **Servicing** – The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.
19. **Outdoor Antenna Grounding** – If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of the antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure 73.1.

FIGURE 73.1:
EXAMPLE OF ANTENNA GROUNDING AS PER
NATIONAL ELECTRICAL CODE



NEC – NATIONAL ELECTRICAL CODE

S2898A

Precautions

1. Warranty Claim

You can find the serial number on the rear panel. In case of warranty claim, please report this number.

2. Care

From time to time you should wipe the front and rear panels and the cabinet with a soft cloth. For heavier dirt, dampen a soft cloth in a weak solution of mild detergent and water, wring it out dry, and wipe off the dirt. Following this, dry immediately with a clean cloth. Do not use rough material, thinners, alcohol or other chemical solvents or cloths since these could damage the finish or remove the panel lettering.

3. Power

WARNING

BEFORE PLUGGING IN THE UNIT FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY.

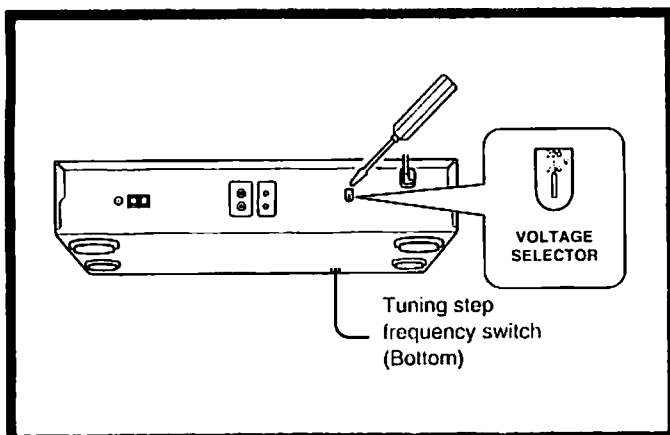
- The voltage of the available power supply differs according to country or region. Be sure that the power supply voltage of the area where this unit will be used meets the required voltage (e.g., AC230V 50Hz or AC120V 60Hz) written on the rear panel.
- **Models Equipped with a Voltage Selector**
Worldwide models are equipped with a voltage selector to conform with local power supplies. Be sure to set this switch to match the voltage of the power supply in your area before plugging in the unit. (See "Setting the Voltage selector and tuning step frequency (worldwide models only)" below.)

Memory Preservation

This unit does not require memory preservation batteries. A built-in memory power back-up system preserves the contents of the memory during power failures and even when the unit is unplugged. The unit must be plugged in order to charge the back-up system.

The memory preservation period after the unit has been unplugged varies depending on climate and placement of the unit. On the average, memory contents are protected over a period of a few weeks after the last time the unit has been unplugged. This period is shorter when the unit is exposed to a highly humid climate.

Setting the voltage selector and tuning step frequency (Only for T-4211 worldwide model)



Voltage selector

1. This tuner is equipped with a voltage selector enabling selection between 120 V and 220 - 230 V on the rear panel.
2. If the selector is not set to the local voltage, set the selector to the correct voltage with a screwdriver before inserting the power cord into a wall outlet.

Tuning step frequency

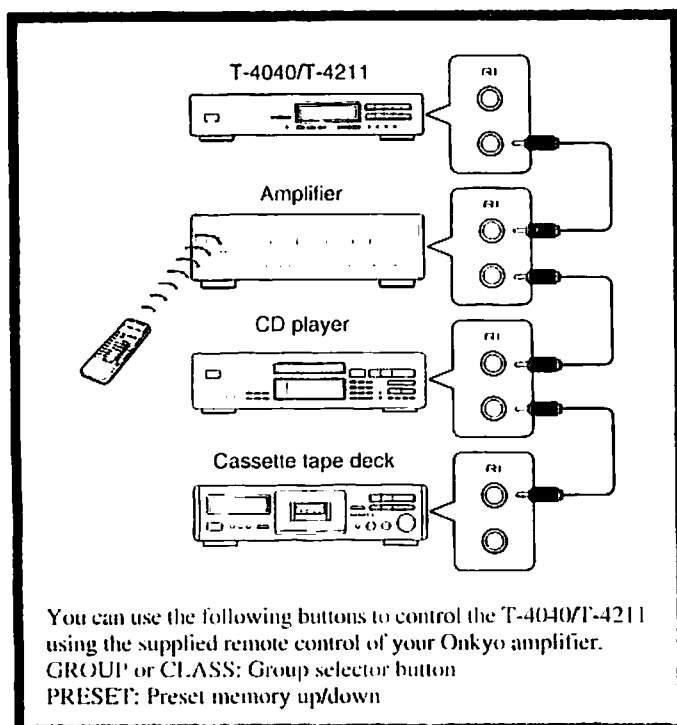
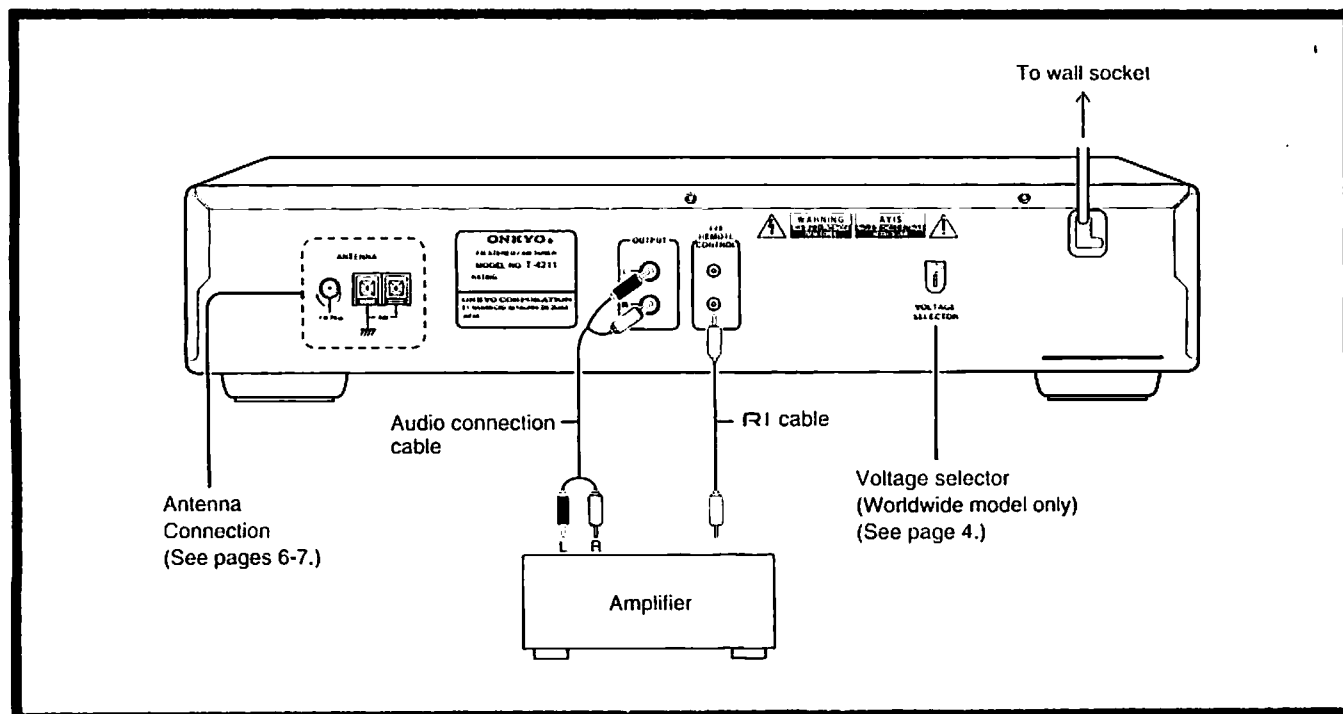
Worldwide models are equipped with a switch that controls the AM band tuning steps. Please set this switch to match the AM band tuning step frequency in your area.

U.S.A. : 10 kHz

Other areas : 9 kHz

System connections

- Do not plug in the power cord until all connections have been made.
- The jack (marked R) corresponds to the right channel, and the jack (marked L) to the left channel.



Connections for remote control (RI)

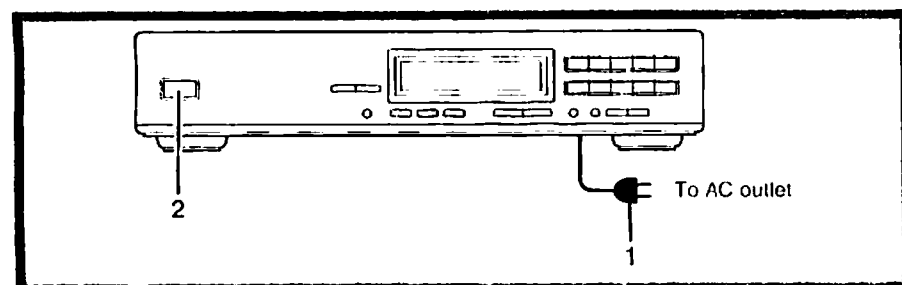
When the T-4040/T-4211 is connected to an amplifier with the Onkyo RI mark, you are able to operate it by pressing the TUNER buttons on the amplifier's supplied remote control. When connecting Onkyo products, it is necessary to attach the RI cable to be able to use the remote control of the amplifier to control the entire system.

1. To use this tuner with an amplifier, cassette tape deck and compact disc player with the RI jack, insert the remote control cable plugs into the REMOTE CONTROL jacks as shown.
2. As the exact connection sequence of the RI cable is unimportant, you can connect from the amplifier to either the tuner, the cassette tape deck or to the compact disc player.
3. To operate correctly, the remote control must face towards the remote control sensor of the amplifier.

NOTES:

- The upper and lower RI jacks have the same function.
- Remote control operation is not possible when only the remote control cable is connected — the audio connection cables must also be connected.
- An RI cable equipped with a 1/8" (3.5mm) diameter miniature two-conductor phone plug is included with the T-4040/T-4211 and with every compact disc player and tuner with the RI jack.

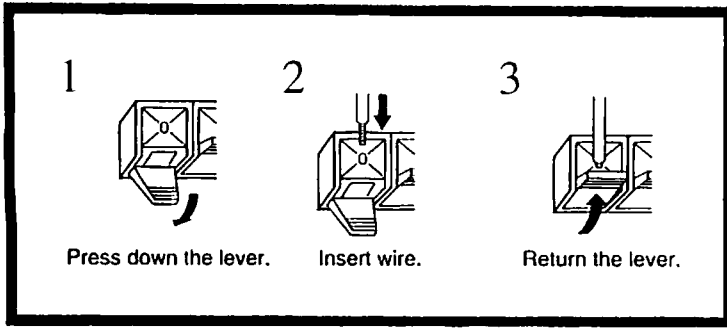
Power connections



Connecting the power

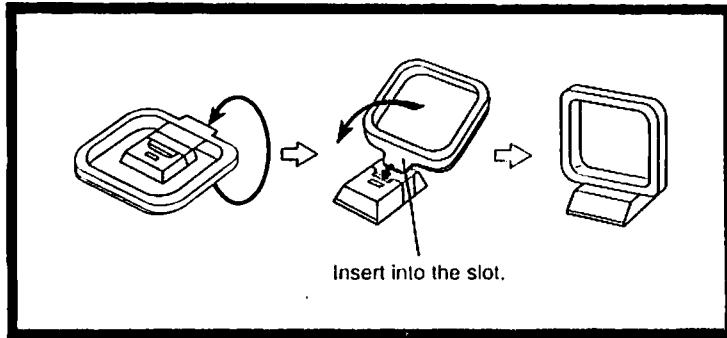
1. Insert the AC power supply cord into the wall outlet.
2. Press the POWER button. The display will light up.

Antenna connections



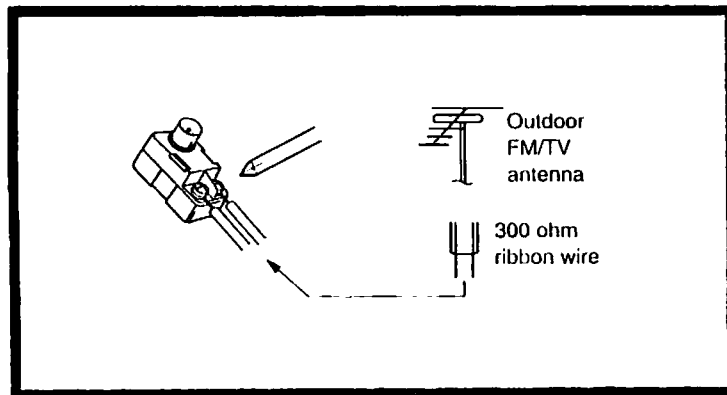
Antenna cables

1. Press down on the lever.
2. Insert the wire.
3. Return the lever.



AM loop antenna

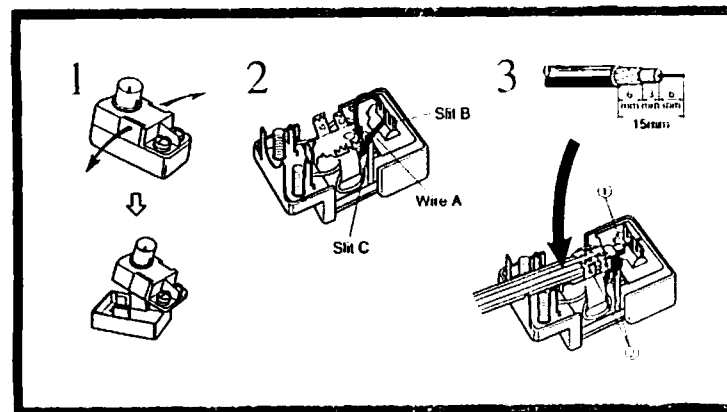
Assemble the loop antenna as shown in the illustration. (Refer to the next page for details on connecting the AM loop antenna.)



75/300 ohm adapter (For T-4211 except European model)

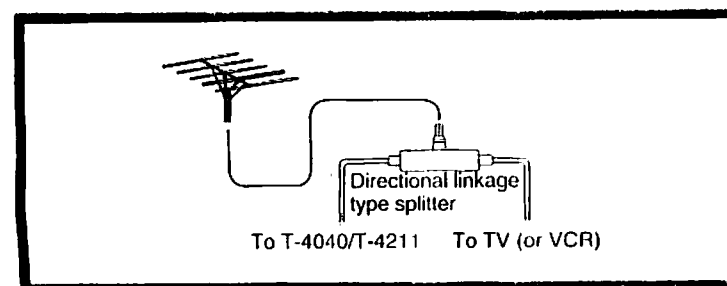
Connecting the 300 ohm ribbon wire to the 75/300 ohm adapter

Loosen the screws and wrap the wires around them. Then, tighten the screws with a screwdriver.



Connecting the coaxial cable to the 75/300 ohm adapter

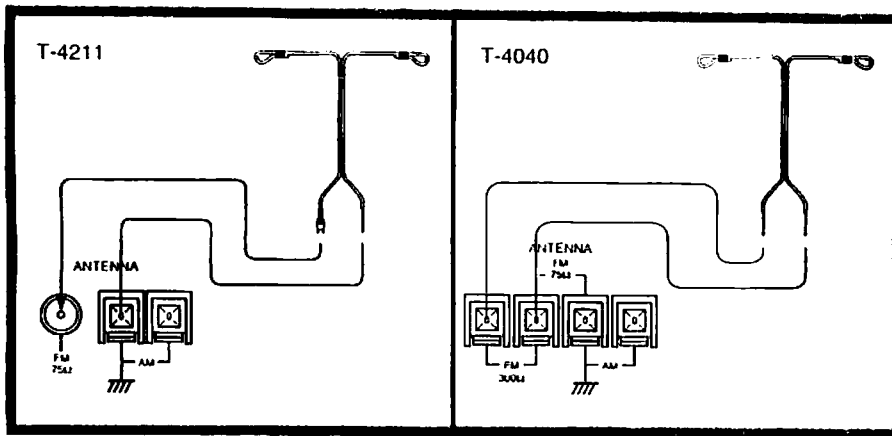
1. With your fingernail or a small screwdriver, pull the stoppers outwards and remove the cover.
2. Remove the transformer wire A from slit B and insert it into slit C.
3. Prepare the coaxial cable as shown in the illustration. Connect the coaxial cable to the 75/300 ohm antenna adapter.
 - ① Insert the end of the cable.
 - ② Use pliers to pinch it and keep it in place.
4. Re-install the cover.



Directional linkage

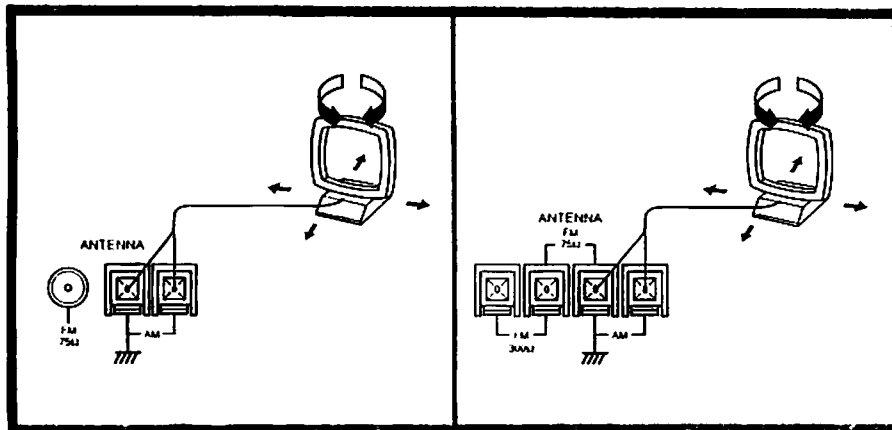
Do not use the same antenna for both FM and TV (or VCR) reception because the FM and TV (or VCR) signals can interfere with each other. In case you have to use a common FM/TV (or VCR) antenna, use a directional linkage type splitter.

Antenna connections



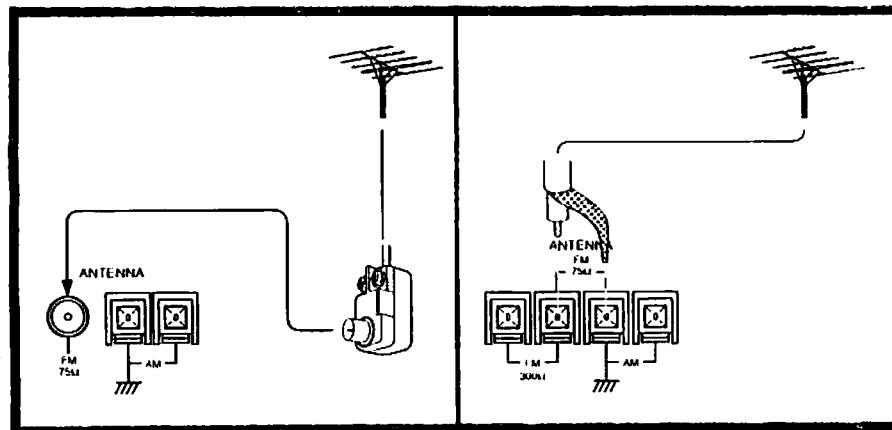
T-shaped FM antenna

The T-shaped FM antenna is for indoor use only. Move the antenna in various directions until the clearest signal is received. Fix it with push pins in the position giving the least amount of distortion.



AM loop antenna

The AM loop antenna is for indoor use only. Set it to the direction where you can receive the clearest sound. Put it as far as possible away from the main unit, TV sets, speaker cords and power cords.



Outdoor FM antenna

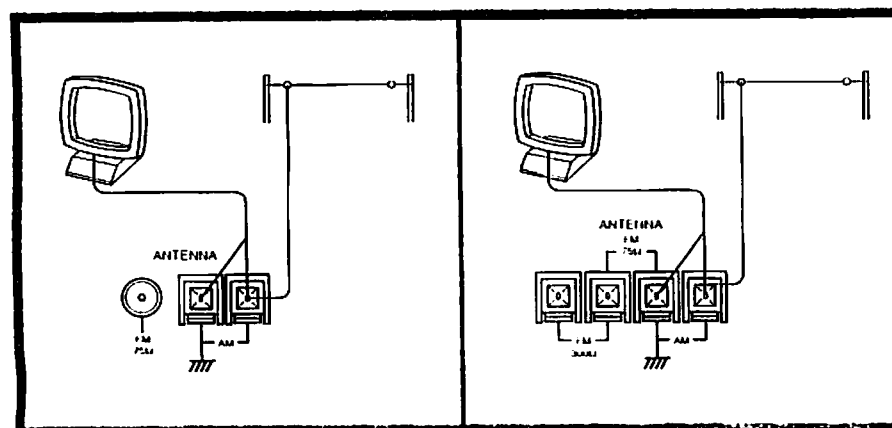
If the reception is not very clear with the attached T-shaped FM antenna, the use of an external antenna is recommended.

Please make sure that you comply with the following considerations regarding the location.

Keep the antenna away from noise sources (neon signs, busy roads etc.).

It is dangerous to put it close to power lines, so keep it well away.

For details on grounding the outdoor antenna, refer to number 19 of the Important safeguards on page 3.



Outdoor AM antenna

When reception is not satisfactory by the use of the attached AM loop antenna alone, connection of the external antenna is recommended.

(Do not remove the AM loop antenna.)

The external antenna will be more effective if you stretch it horizontally in a high place above a window or outside.

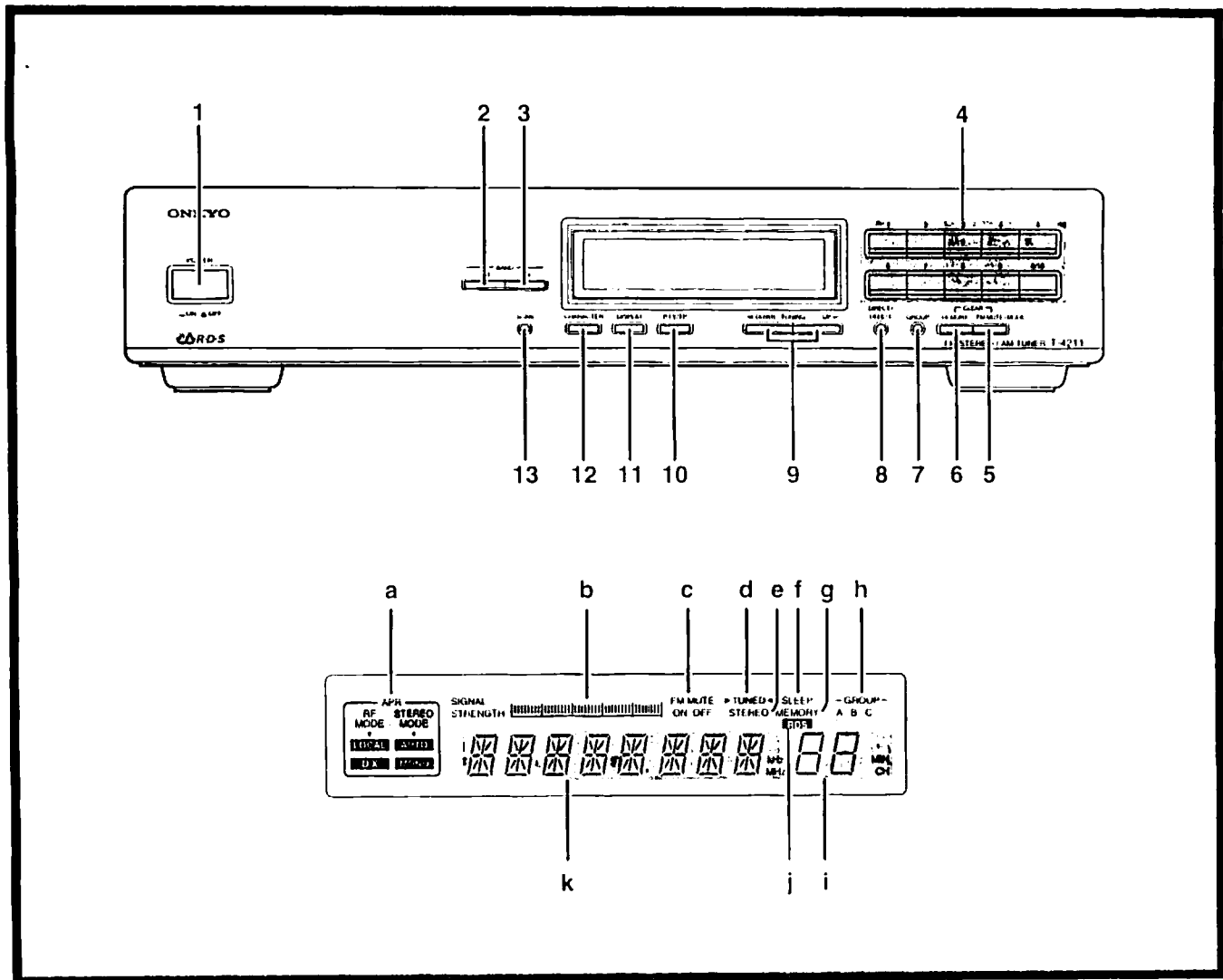
For details on grounding the outdoor antenna, refer to number 19 of the Important safeguards on page 3.

Note to CATV system installer for U.S.A. models:

This reminder is provided to call the CATV system installer's attention to Section 820-10 of the NEC which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Control positions and names

- If there is a protective film on the surface of the display, which is making it difficult to read the display, remove it.
- For more information about buttons, turn to the page number in the brackets [].



Front panel

Display

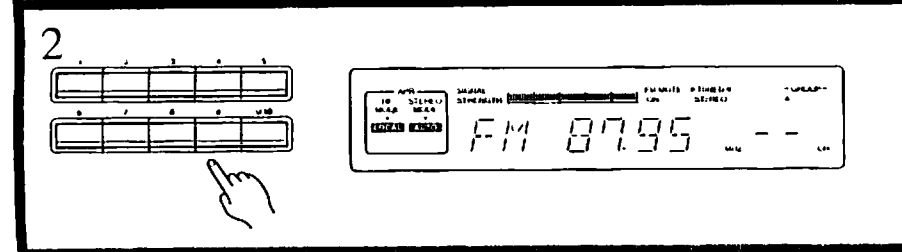
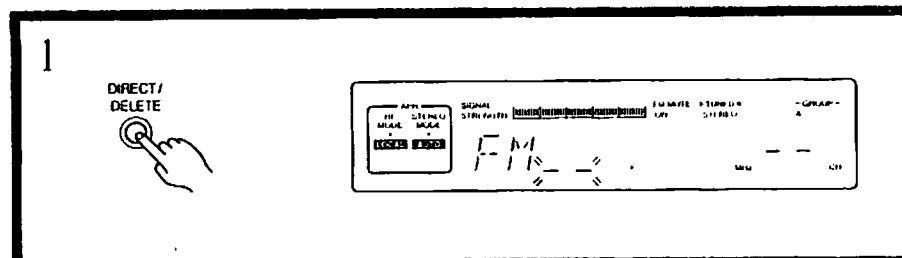
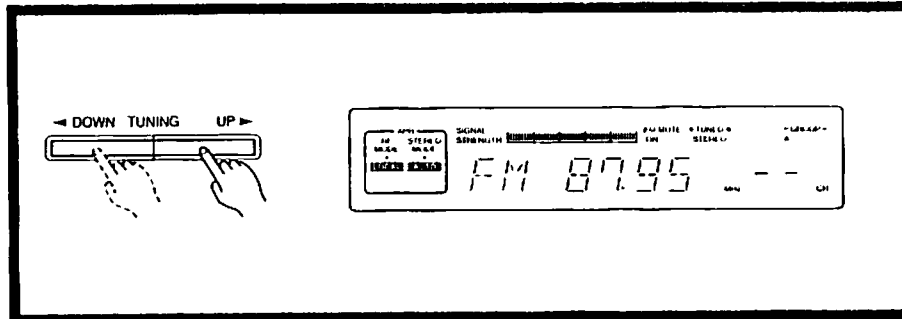
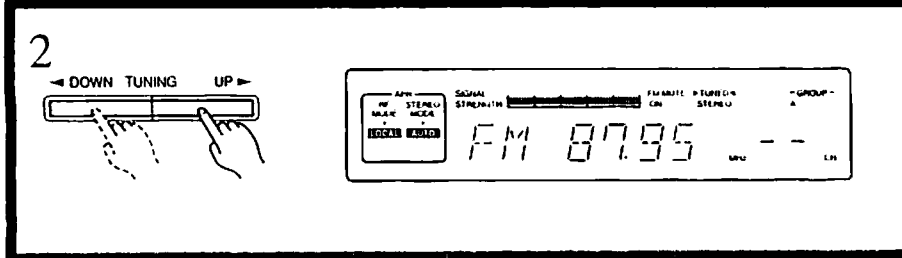
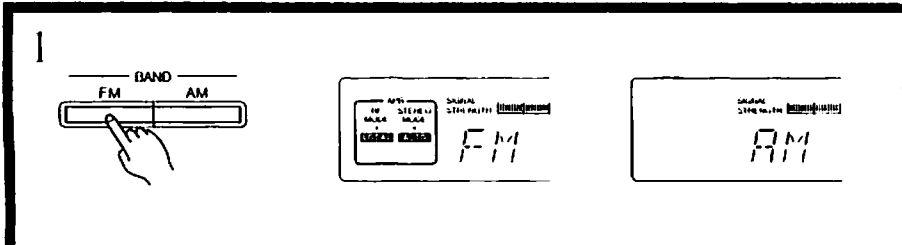
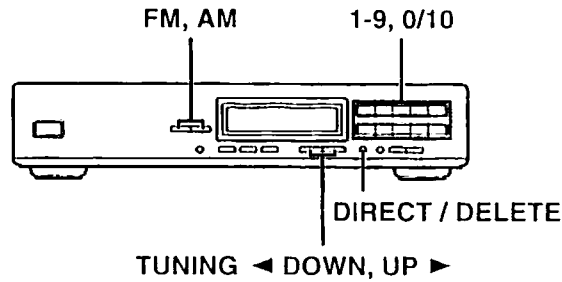
1. POWER button [5]
2. FM buttons [9]
3. AM button [9]
4. Number buttons [9, 11]
5. FM MUTE/MODE button [10, 12]
6. MEMORY button [11, 13]
7. GROUP button [11, 12]
8. DIRECT/DELETE button [9]
9. TUNING UP/DOWN buttons [9, 13, 15]
10. PTY/TP (RDS) button (T-4211 only) [14, 15]
11. DISPLAY button (T-4211 only) [15]
12. CHARACTER button (T-4211 only) [13]
13. SCAN button [12, 15]

- a. APR system indicators
- b. Signal Strength level display
- c. FM Mute ON/OFF indicators
- d. Tuned indicator
- e. Stereo indicator
- f. Sleep indicator
- g. Memory indicator
- h. Group (preset station) indicators
- i. Memory channel/Sleep time display
- j. RDS station received indicator (T-4211 only)
- k. Multi display

* Sleep indicator

The T-4040/T-4211 does not have a sleep function. However, if the T-4040/T-4211 is connected to an amplifier with the **RF1** jack, and the SLEEP button on the remote control is pressed, the SLEEP indicator on the T-4040/T-4211 will illuminate. When the SLEEP button is pressed again, the indicator will turn off.

Receiving stations



Auto tuning

1. Select FM or AM using the FM or AM button.
2. Hold down the UP ► (or ◀ DOWN) button for a few seconds. The frequency will automatically begin to increase (or decrease) until a station is found.

Receiving an FM station

The PS (the name of the station) is shown on the display when in RDS mode (see RDS on pages 14 and 15). If you wish to see the frequency display instead, press the DISPLAY button.

Manual tuning

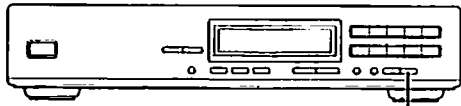
Each time you press the UP ► (or ◀ DOWN) button, the frequency increases (or decreases) by one tuning step. Repeat until you find a frequency or station that you like.

- When receiving an FM station, follow the procedures for the RDS.
- Note that the RDS function is only a feature of the T-4211.

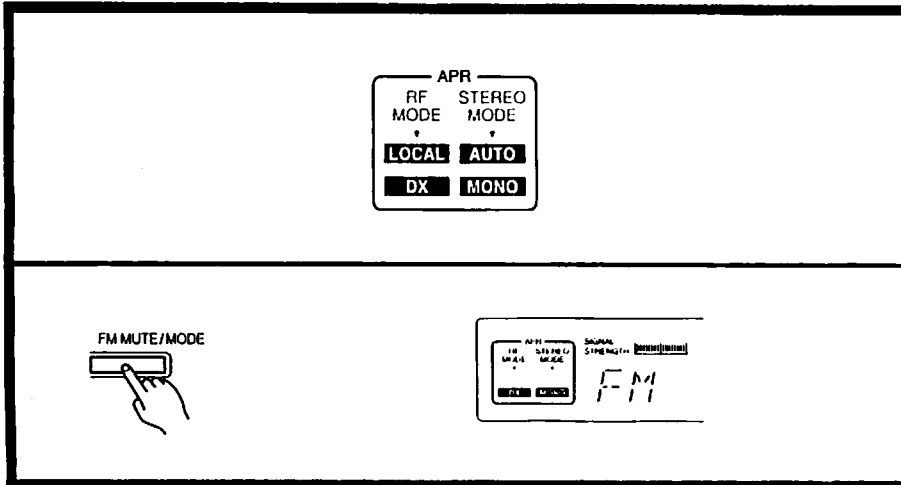
Direct tuning

1. Press the DIRECT/DELETE button and the underscores will blink on the display.
 2. Enter the frequency with the number buttons. Use the 0/10 number button to enter a 0.
- If you enter a frequency that is out of range, the T-4040/T-4211 will return to the previous frequency. If this happens, repeat the procedure.
 - If you enter a frequency that does not have a station, the T-4040/T-4211 will automatically tune to the next station immediately below that frequency.
 - When receiving an FM station, follow the procedures for the RDS (T-4211 only) and APR functions.

Place the AM loop antenna or T-shaped FM antenna on a wall or other surface in the position which gives the best reception.



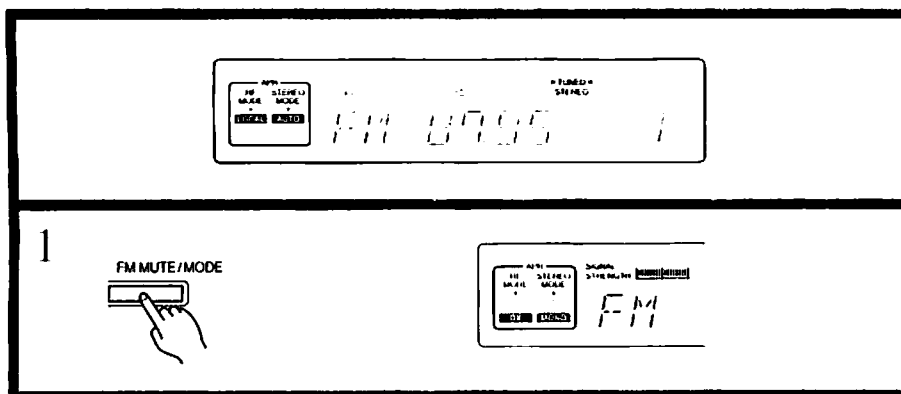
FM MUTE / MODE



APR System (FM mode)

The T-4040/T-4211 is equipped with an Automatic Precision Reception (APR) system which helps tune in FM stations. This system automatically sets the RF stage gain (local/distance) and auto stereo/mono reception modes to the proper settings according to the quality of the broadcast being received. The APR system indication changes each time the APR circuit switches between LOCAL and DX and/or AUTO and MONO to show the current APR setting.

- When a FM MUTE/MODE button is turned off, the APR system does not operate, and the MONO indicator is displayed.
- When strong enough signal is received, the RF MODE will indicate LOCAL.
- If the MONO indicator is displayed, the broadcasts are received in mono. Press the FM MUTE/MODE button to turn mute off, to eliminate the excessive noise when weak stations are received in stereo.



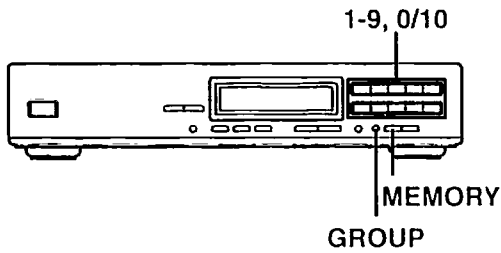
Listening to a stereo radio station

If you tune in a stereo FM station, the STEREO display will be illuminated if the signal is sufficiently strong.

If the signal is weak, it may be impossible to tune into your desired station. In this case, tune in as follows.

1. Press the FM MUTE/MODE button to display MONO.
2. Select the station you would like to listen by using manual tuning mode.

Using preset stations



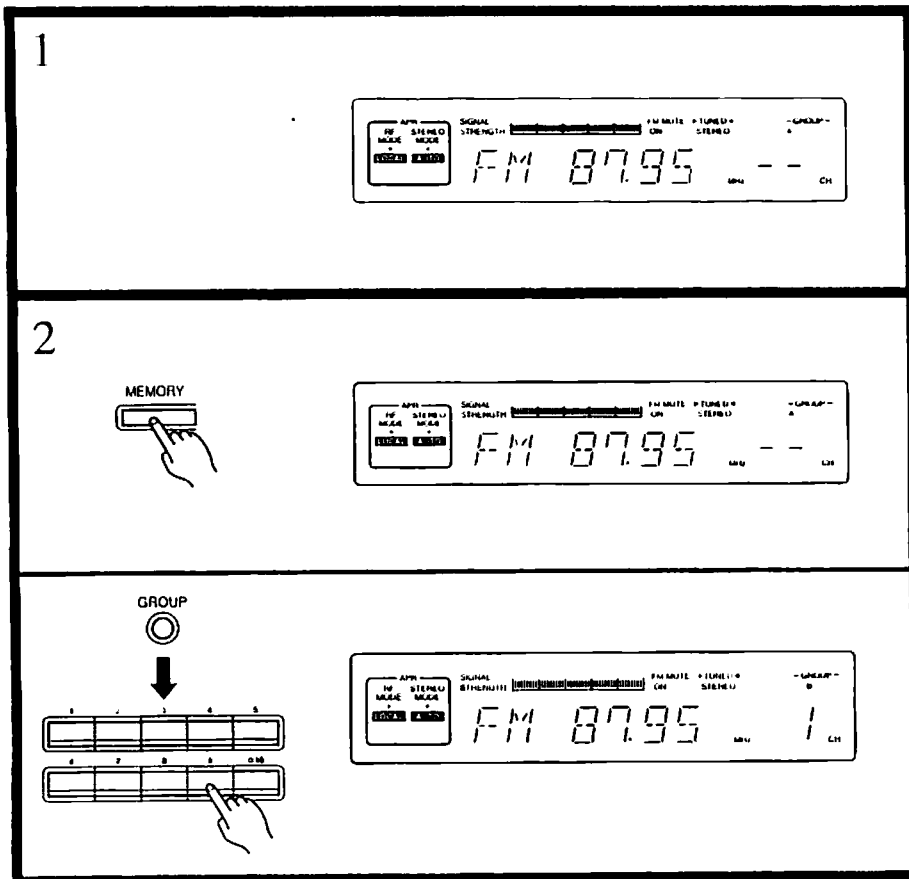
Programming radio stations

1. Select the frequency that you want to store in the memory.
(See Receiving Stations on page 9.)
2. Press the MEMORY button and the MEMORY indicator lights up in red. Press the GROUP button until desired letter A, B, or C, appears on the display, then, press the desired number button that you want the frequency to be memorized in. Use the 0/10 number button to enter a 10 or 0.

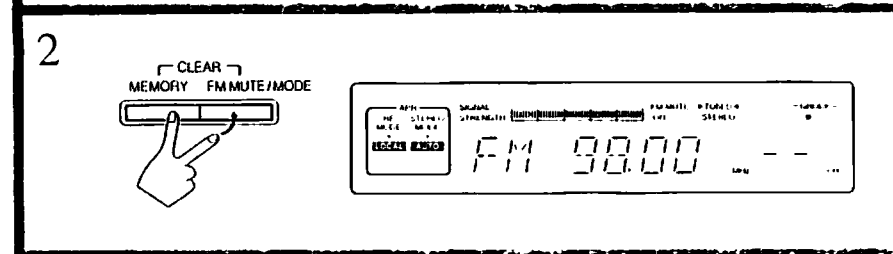
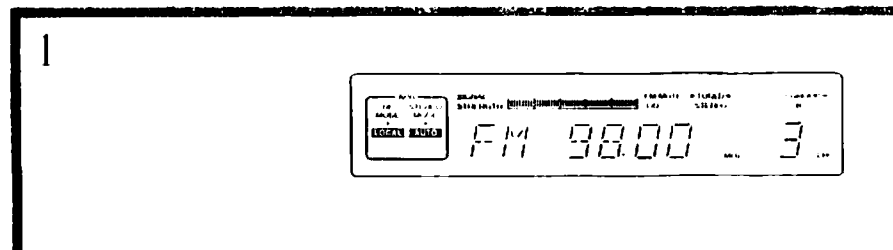
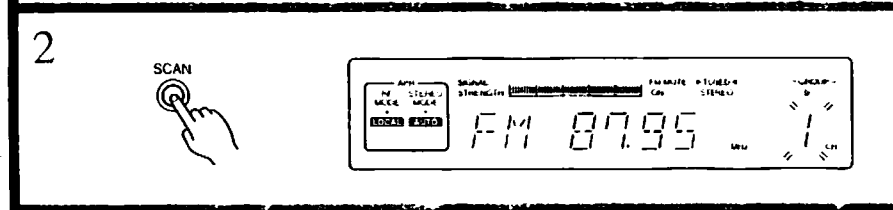
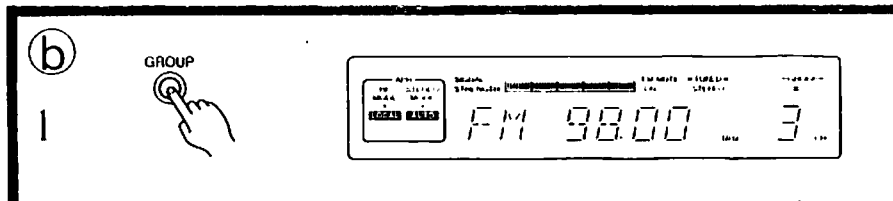
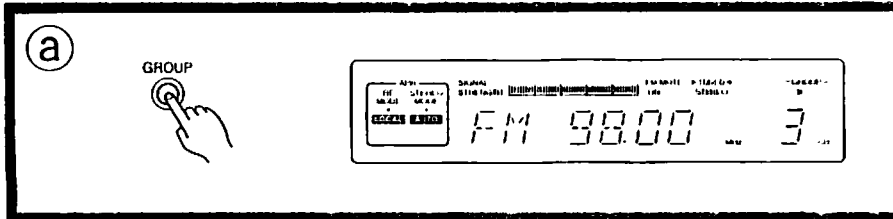
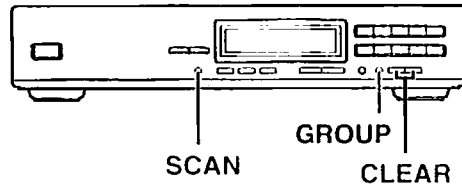
NOTES:

- AM stations can be stored in the memory using the same procedure.
- Since ten stations can be stored in each group (A, B or C), a total of 30 stations can be memorized.
- If the FM station received is an RDS station with a PS (Program Service Name), the frequency display will change to the PS display. If there is no PS, the frequency display will not change. (Refer to pages 14 and 15 for the RDS function.)

Note that the RDS function is only for features of T-4211.



Using preset stations



Recalling preset stations

(a) First, press the GROUP button until the appropriate letter appears on the display. Then, press the appropriate number button.

(b) 1. Press the GROUP button until the appropriate letter appears on the display.

2. Press the SCAN button.

Each of the preset stations in the selected group will be tuned in sequentially for 5 seconds.

When the desired station is reached, or you want to stop scanning, press the SCAN button for a second time.

The Tuner will automatically switch to AM or FM according to the selected station.

NOTE:

This can not be done in the PTY modes in the T-4211.

Cancelling preset stations

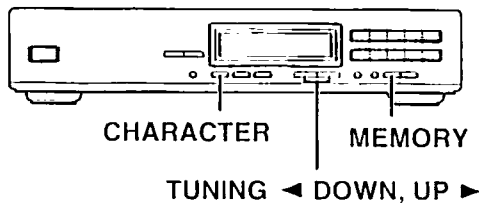
1. Select the preset station as explained in the previous section.

2. Press and hold the MEMORY button and within a second of doing this, press the FM MUTE/MODE button. "--" will be shown on the MEMORY channel display.

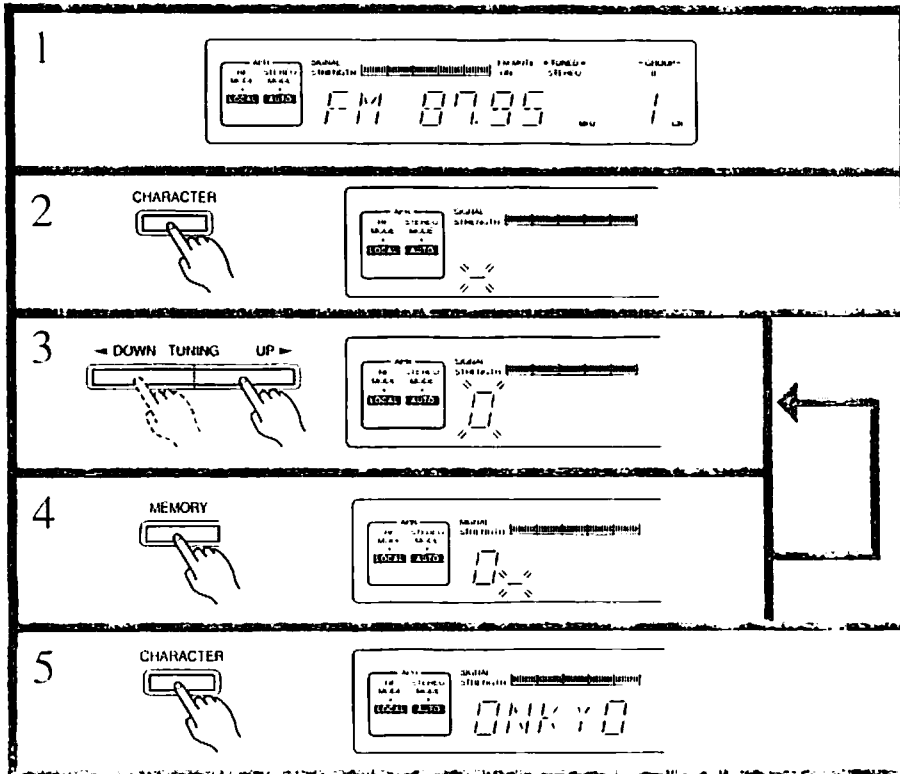
3. Once the preset station has been cancelled, the memory location can be used to store another station.

Entering station names (T-4211 only)

The following 54 characters can be used.



	A	B	C	D	E	F	G	H	I	J	K
L	M	N	O	P	Q	R	S	T	U	V	W
X	Y	Z	-	0	1	2	3	4	5	6	7
8	9										

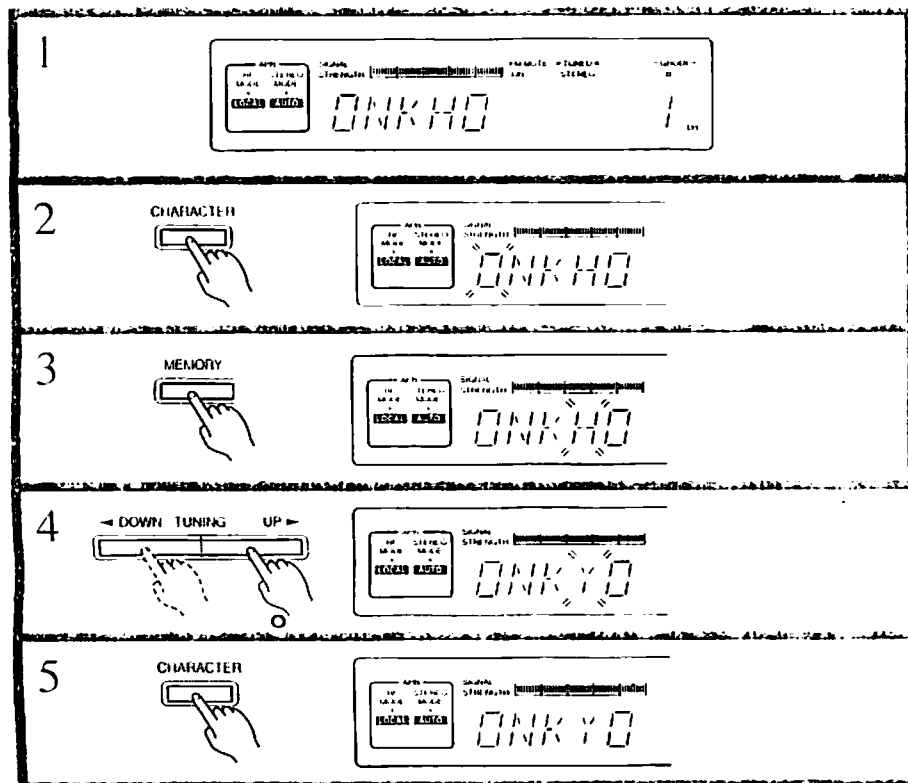


Entering new characters

1. Select the station you wish to name. (See previous sections.)
2. Press the CHARACTER button to enter character input mode.
3. Press the TUNING UP/DOWN buttons to select a character.
4. Press the MEMORY button to store the character.
Repeat the procedures 3 and 4 to store more characters. You can store up to 8 characters in all.
5. Press the CHARACTER button once again to complete the operation.

NOTES:

- If you have not pressed a button for 16 seconds, the operation will complete automatically.
- If the station you are currently listening to on the T-4211 is an RDS station, the program service name has priority over other information. Therefore you will not be able to enter characters for the station name.
- Press the DISPLAY button when you wish to check the frequency while you are entering the characters.



Changing existing characters

1. Select the station which has a name you wish to change. (See the previous sections.)
2. Press the CHARACTER button to enter character input mode.
3. Press the MEMORY button until the character which you want to change is selected.
4. Press the TUNING UP/DOWN buttons to select a new character.
To delete the current character, press the DIRECT/DELETE button. The cursor will move one character to the left.
5. Press the CHARACTER button to store the character.

Clearing all of the characters stored in memory

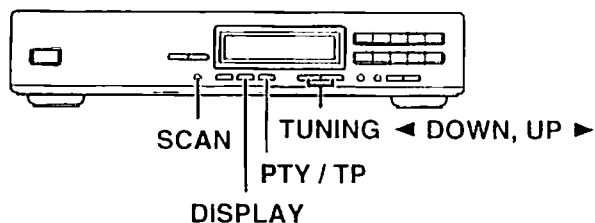
1. Press the CHARACTER button.
2. Hold down the MEMORY button then press the FM MUTE/MODE button.

Receiving RDS (T-4211 only)

RDS reception is only available in areas where RDS broadcasts are available. However, if radio reception is weak, RDS may not be received.

What is RDS?

Many FM stations now transmit RDS signals which give additional information. RDS provides you with various services so that (for example) you can choose a station broadcasting your favorite categories of music, or other information. The information on the right side is available on this unit.



PS: Program Service Name

When an RDS station broadcasting PS information is received, the name of the station will be displayed instead of the frequency.

PTY: Program Type

When an RDS station broadcasting PTY information is received, the type (category) of the broadcast will be displayed.

TP: Traffic Program

When an RDS station broadcasting TP information is received, the traffic information will be displayed.

RT: Radio Text

When an RDS station broadcasting RT information is received, the information received from the station will be shown on the tuner's display.

CT: Clock Time

When an RDS station broadcasting CT information is received, a clock will appear on the display within 1 minute from the time the station is received.

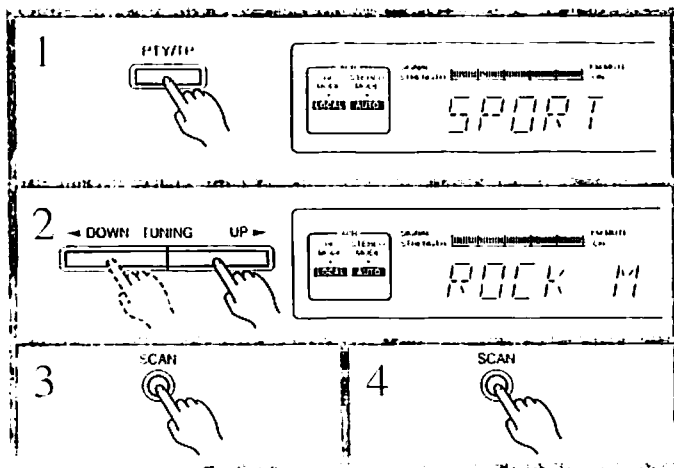
NOTE:

In some cases, the characters displayed on the screen of the T-4211 may not be exactly the same as the ones broadcast by the radio station. The T-4211 cannot display lower case letters, and will change them to upper case. If strange characters appear in the display, it is because characters are being received that cannot be correctly displayed by the T-4211. They do not indicate a malfunction of the unit.

PTY Classifications

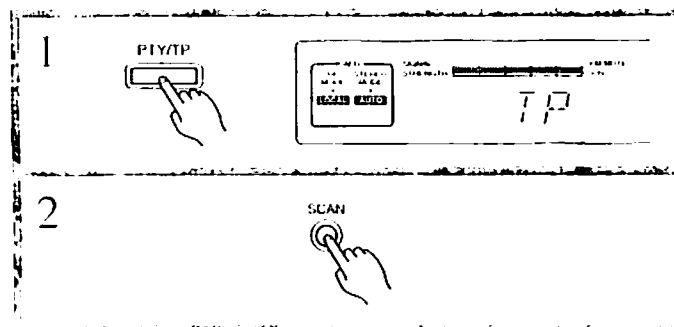
1	NEWS	News reports	Reports on current events and happenings.
2	AFFAIRS	Current affairs	Topical reporting of current affairs, often with a wider range of topics than news reports.
3	INFO	Information	General information such as weather forecasts, consumer affairs, medical help etc.
4	SPORT	Sport	Live sports action, sports news and interviews.
5	EDUCATE	Education	Formal educational programs.
6	DRAMA	Drama	Radio plays and serials
7	CULTURE	Culture	Cultural programs (including religious affairs)
8	SCIENCE	Science and technology	Programs about the natural sciences and technology.
9	VARIED	Varied	Speech based programs not covered by the above categories e.g. quizzes, panel games, comedy, etc.
10	POP M	Pop music	Popular commercial music, usually included in past or present sales charts.
11	ROCK M	Rock music	Popular music with a more specialist appeal, often not included in sales charts.
12	M.O.R.M	Middle of the road music	Easy listening music as opposed to Pop, Rock or Classical.
13	LIGHT M	Light classics	Classical music for general rather than specialist appreciation.
14	CLASSICS	Serious classics	Performances of major orchestral works, symphonies, chamber music etc. and including Grand Opera.
15	OTHER M	Other music	Music styles not covered by the above categories, e.g. Jazz, Rhythm & Blues, Folk, Country, Reggae.

Receiving RDS (T-4211 only)



Searching for a station which broadcasts your favorite category (PTY scan)

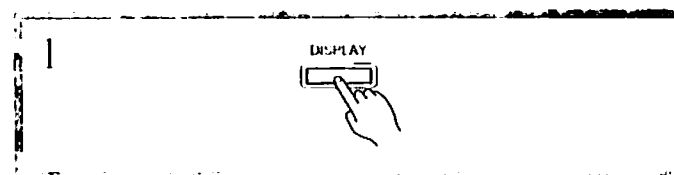
1. Press the RDS button, and the program type of the currently selected station will be shown on the display (for example, "SPORT").
If the station you are receiving is not broadcasting RDS, "NOT RDS" (this is not an RDS station) will be shown on the display.
2. Use the TUNING UP/DOWN buttons to select another program type (PTY) (for example, "ROCK M").
See the PTY descriptions on the previous page.
3. Press the SCAN button to start searching for the chosen PTY. When a station is received with the desired PTY, the scanning stops for approximately 5 seconds, before the unit starts scanning again.
4. When the desired station is reached, press SCAN again to stop scanning.



Receiving RDS traffic information

(If the station you are listening to is not an RDS station, this search function cannot be used.)

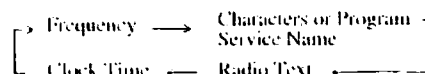
1. Press the RDS button until TP appears on the display.
If "TP" is shown on the display, it indicates that the current station is broadcasting traffic information.
2. Press the SCAN button to start searching for a TP station.
When the unit receives a TP station, it stops scanning. If the unit cannot receive any signal, "NOT FIND" (cannot find the station) is shown on the display.



Displaying Radio Text (RT)

(If the station you are listening to is not an RDS station, this function cannot be used.)

1. Each time you press the DISPLAY button, the display changes as follows.



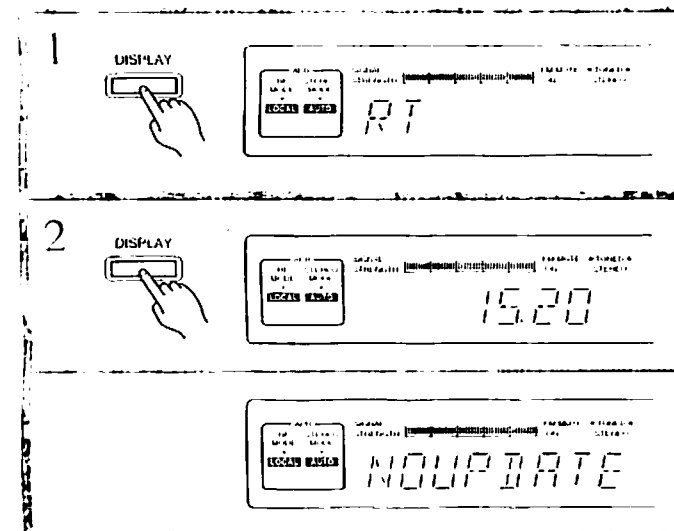
If the current station you are listening to is not an RDS station, only the frequency of the station or the station name, that you have entered (see page 13) will appear. (If there have been no characters entered, only the frequency is shown.)

When RT is received, it can sometimes take between a few seconds and 15 seconds (more or less) to show RT on the display.

Sometimes the following messages will be shown on the display.

WAIT: indicates that it requires more time to receive the RT information. When the information is received, the characters will scroll across the display.

NO TEXT: this appears for 3 seconds and indicates that even though an RDS station is being received, but there is no RT information included.



Displaying Clock Time (CT)

(If the station you are listening to is not an RDS station, this function cannot be used.)

1. Press the DISPLAY button and RT will be displayed.
2. Press the DISPLAY button one more time.
A clock will appear on the display within one minute after receiving a station broadcasting CT information.
NO UPDATE or **NO TIME** will appear on the display within a few seconds after receiving a station which does not broadcast CT information. Then, the PS information will be displayed.

Troubleshooting guide

- No power.
Cause: Power cord is disconnected.
Remedy: Connect power cord.
- Buzzing noise on AM, usually conspicuous at night or with a weak station.
Cause: Noise from electrical apparatus such as fluorescent lamps.
Remedy: Move set to different location.
Remedy: Change the position or direction of the loop antenna.
- High pitched noise.
Cause: Noise from TV.
Remedy: Keep unit away from TV set.
- Crackling noise on AM and FM.
Cause: Noise caused by turning a fluorescent lamp on and off.
Remedy: Move the antenna as far away as possible from the fluorescent lamp.
Cause: Noise from automobile ignition.
Remedy: Install an outdoor FM antenna as far away as possible from the road.
- AM stations cannot be received.
Cause: AM loop antenna is not attached.
Remedy: Connect the included AM loop antenna to the AM antenna terminals.
- TUNED and STEREO indicators light but sound is distorted and separation is bad.
Cause: Station is too strong.
Remedy: Change to T-shaped antenna.
Cause: Multiple reflection of the radio waves because of tall buildings or mountains.
Remedy: Use antenna which has better directivity and select a point with the least distortion.
- TUNED and STEREO indicators flicker and hiss is heard on FM.
Cause: Station is too weak.
Remedy: Install an outdoor FM antenna.
Remedy: Change the position or direction of the outdoor antenna.
Cause: Stereo FM broadcasts cover only about half the distance of an ordinary broadcast.
Remedy: Switch to mono reception. (Even stereo broadcasts will be heard in mono.)
- No station, or an undesired station is recalled when a preset number button is pressed.
Cause: The power cord has been unplugged for a long time.
Remedy: The memory contents are lost if the power is not turned on and off a few times each month. Store all stations in the memory again and remember to turn power on and off a few times each month.
- The RDS function does not work. (T-4211 Only)
Cause: The station is not an RDS station.
Remedy: Receive an RDS station.
Cause: The reception station signal is too weak.
Remedy: Install an outdoor FM antenna.
Remedy: Change the position or direction of the outdoor antenna.
Cause: Too much interference.
Remedy: Move the antenna as far away as possible from fluorescent lamps.
Remedy: Install an outdoor FM antenna.
- Excessive electrical interference may temporarily render this system's sensitive microcomputer inoperable. If this happens, unplug the system for at least five seconds.

Specifications

FM	
Tuning range:	87.50 – 108.00 MHz (50 kHz steps)
Usable sensitivity	
T-4211 Mono:	11.2 dBf, 1.0 µV, 75 Ohms, IHF 0.9 µV, 75 Ohms, DIN
Stereo:	17.2 dBf, 2.0 µV, 75 Ohms, IHF 2.0 µV, 75 Ohms, DIN
T-4040 Mono:	11.2 dBf, 2.0 µV, 300 Ohms, IHF
Stereo:	17.2 dBf, 4.0 µV, 300 Ohms, IHF
50 dB quieting sensitivity	
T-4211 Mono:	16.1 dBf, 1.7 µV, 75 Ohms
Stereo:	36.1 dBf, 17 µV, 75 Ohms
T-4040 Mono:	16.1 dBf, 3.5 µV, 300 Ohms, IHF
Stereo:	36.1 dBf, 35 µV, 300 Ohms, IHF
Capture ratio:	
Image rejection ratio:	
T-4211:	80 dB
T-4040:	40 dB
HF rejection ratio:	
Signal-to-noise Distortion	
Mono:	73 dB, IHF
Stereo:	66 dB, IHF
Alternate channel attenuation:	
Selectivity:	
T-4211:	55 dB, DIN (±300 kHz, 40 kHz dev)
T-4040:	50 dB, IHF (±400 kHz)
AM suppression ratio:	
Total Harmonic Distortion	
Mono:	0.1%
Stereo:	0.2%
Frequency response:	
Stereo separation:	
30 – 15,000 Hz (±1.5 dB)	
40 dB at 1 kHz	
30 dB at 70 – 10,000 Hz	
Output voltage	
T-4211:	0.75 V
T-4040:	0.5 V
Muting level:	
17.2 dBf, 2.0 µV, 75 Ohms	
AM	
Tuning range	
T-4211:	522 – 1611 kHz (9 kHz steps) 531 – 1602 kHz (9 kHz steps) 530 – 1710 kHz (10 kHz steps)
T-4040:	530 – 1710 kHz (10 kHz steps)
Usable sensitivity:	
Image rejection ratio:	
HF rejection ratio:	
Signal-to-noise ratio:	
Total Harmonic Distortion:	
Output voltage:	
25 µV	
40 dB	
40 dB	
40 dB	
0.8%	
150 mV	
General	
Power supply	
T-4211:	AC 120 V and 220 – 230 V switchable, 50/60 Hz AC 220 V, 60 Hz AC 230 V, 50 Hz
T-4040:	AC 120 V, 60 Hz
Dimensions (W × H × D):	
435 × 91 × 305 mm 17-1/8" × 3-9/16" × 12-1/2"	
Weight:	
3.6 kg, 7.9lbs.	

Specifications and features are subject to change without notice.

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