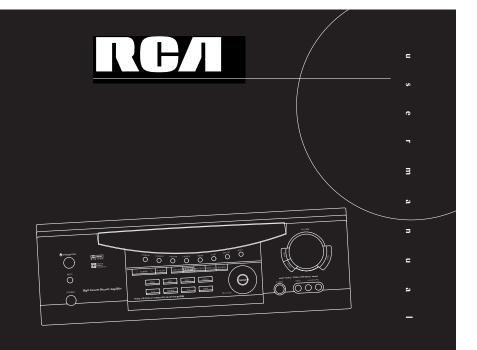
Rev.1

EN - cover with new nom address and sentence F - updated warranty page with new phone number



IMPORTADOR
Comercializadora Thomson de Mexico, S.A. de C.V.
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0151

EXPORTER
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RT2580

It is important to read this instruction book prior to using your new product for the first time. Es importante leer este manual antes de usar por vez primera su euipo.

interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. In accordance with FCC requirements, changes or modifications not expressly approved by Thomson multimedia Inc. could void the user's authority to operate this product.

This device generates and uses radio frequency (RF) energy, and if not installed and used properly, this evice the procure of the product of the property of the product of the product

equipment may cause interference to radio and

equipment may cause interference to radio and television reception.

If this equipment does cause interference to radio or television reception (which you can determine by unplugging the unit), try to correct the interference by one or more of the following measures:

Re-orient the receiving antenna (that is, the antenna for the radio or television that is "receiving" the interference.

Move the unit away from the equipment that is receiving interference.

Plug the unit into a different wall outlet so that the unit and the equipment receiving interference are on different branch circuits.

the unit and the equipment receiving interference are on different branch circuits. If these measures do not eliminate the interference, please consult your dealer or an experienced radiofelevision technician for additional suggestions. Also, the Federal Communications Commission has prepared a helpful booklet, "How To Identify and Resolve Radio TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington, DC 20402. Please specify stock number 004-000-00345-4 when ordering copies.

This product complies with DHHS Rules 21 CFR Subchapter J. Applicable at the date of manufacture.

For Your Safety

The AC power plug is polarized (one blade is wider than the other) and only fits into AC power outlets one way. If the plug won't go into the outlet completely, turn the plug over and try to insert it the other



way. If it still won't fit, contact a qualified electrician to change the outlet, or use a different one. Do not attempt to bypass this safety

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT

For Your Records

In the event that service should be required, you may need both the model number and the serial number. In the space below, record the date and place of purchase, and the serial number: Model No.

Remote Control No.

Date of Purchase

Place of Purchase

Serial No.

Service Information

This product should be serviced only by those spe-cially trained in appropriate servicing techniques. For instructions on how to obtain service, refer to the warranty included in this Guide

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

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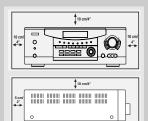
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Set up and Maintenance of the Receiver

• Provide spaces for sufficient ventilation as indicated:

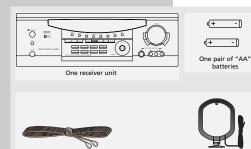


- Do not connect to the AC power cords until all connections are completed.
- Do not use your set immediately after transferring it from a cold place to a warm place: there is risk of condensation.
- Do not expose your set to water and excessively high temperatures.
- After having disconnected your set, clean the case with a soft cloth, or with a slightly damp leather chamois. Never use strong solvents.

Protect your Components from Overheating

- Do not block ventilation holes in any component. Arrange the components so that air can circulate freely.
- Do not stack components directly on top of each other.
- Allow adequate ventilation when placing your components in a stand.
- Place an amplifier near the top shelf of the stand so heated air rising from it will not affect other com-ponents. If you have a satellite receiver, you should place it on the top shelf.

Unpacking the Receiver
You should receive the following items:









one audio cable (two wires) with red and white RCA connectors;

One external FM Dipole antenna



one video cable (single wire) with yellow RCA connectors;



antenna

- one instruction book;
 one safety leaflet;
 one Quick Connection Guide



• 6 speaker cables including:

one set of speakers including 2 left and right front speakers, 1 centre speaker, 1 subwoofer and 2 left and right rear speakers.

CENTER SPEAKERS

Unpacking The Speakers

FRONT SPEAKERS



2 X grey/black cable for rear speakers 1 X brown/black cable for subwoofer

Inserting Batteries into Remote Control

Insert two AA(R6) batteries according to the + and - signs on the battery compartment. To use the remote control, point it directly at your receiver.

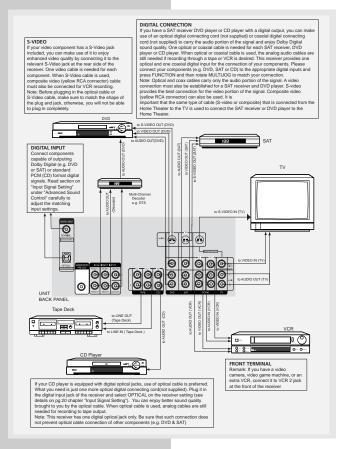




EN

Getting Started

Connecting to Audio-Visual Components



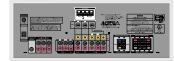
Digital Connections

Read instructions carefully when connecting components to the receiver.

Digital In Jacks can accept Dolby Digital (AC-3), or PCM signals when compatible components are connected.



Connecting the Antennas



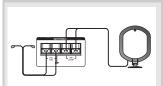
The AM and FM antennas connect to the AM and FM terminals on the system's back panel.

They must be hooked up in order to receive clear reception.

Getting Started

AM Loop Antenna and FM Indoor Antenna

Uncoil the Antenna wire and located the base end
 Press down on the Antenna tab to open the terminal



AM Loop Antenna



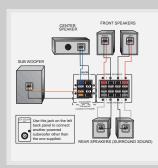
HINT

 For FM reception, extend antenna to its full length and arrange the Antenna as a T Shape
 For AM reception, rotate the antenna horizontally to get better reception.



4

Connecting the Speakers



Speakers

There are 6 speakers equipped with the unit (2 front, 1 center, 2 rear, 1 subwoofer). In order to enjoy good surround effects all six speakers need to be connected to the receiver

At least two front speakers (left and right) are required. For better sound quality, Center speaker, rear speakers and Subwoofer should also be connected. Adding center and rear speakers will enhance surround effects. Adding a Subwoofer will increase bass response.

If you want to enjoy full range of sound effects, with small speakers, it is a must to use the subwoofer with the speakers to maintain adequate bass signal.

Speaker cords

1 for each speaker, is needed for connection. Twist the stripped ends of speaker cord about 2/3 inch (15 mm). Press down on the tab to open the terminal and insert the wire. Snap the tab closed.



To ease speaker connections, the speaker cords and the terminals are color-coded. • Red/Black (Front Speakers), • Blue/Black (Center Speaker)

- Grey/Black (Rear Speakers).
 Brown/Black (Subwoofer)

Connect the L. R speaker (with red/black terminal) on the back of the speakers to the corresponding color on the receiver. Do the same for center (with blue/black terminal), rear speaker (with grey/black terminal) and the subwoofer (with brown/black terminal).

Speaker Polarity
When connecting the speakers, make sure the polarities ("+" speaker wire to "+" on the receiver) of speaker wires and terminals are matched. If the cords are reversed, the sound will be distorted and will lack bass ("out of phase" effect).

Connecting the Subwoofer

For RT2580, connect the subwoofer with the speaker cord (brown/ black) provided. For RT2580, or if you want to connect your own powered subwoofer, a mono aural audio cord (not supplied) is needed (RCA terminal).

This receiver offers a high flexibility for user to use a large variety of speakers and subwoofers. For more information please refer to section "Fine Setting of the Speakers" in "Advanced Sound Control" on page

Positioning your speaker

1) Left, Right (Front Speakers)

They carry primarily music and sound effects

In surround mode, the center speaker carries much of the dialogue as well as music and effects. It should be set between the left and right speakers.

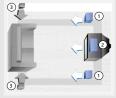
3 Surround (Rear Speakers)
Their overall sound balance should be as close as possible to the front speakers. Proper placement is vital to establish an evenly distributed sound field.

Subwoofer

A subwoofer is designed to reproduce powerful low bass effects (explosions, the rumble of spaceships, etc.) which dramatically heightens involvement with the action on the screen. It is therefore recommended to connect subwoofers when small speakers are used.

Magnetic shielding
Speakers placed less than two feet from the TV set
must be magnetically shielded in order to prevent picture distortion. Front and center speakers provided with RT2580 are magnetically shielded to protect

It is not recommended to place the rear speakers near the TV set.



Front Speaker Placement

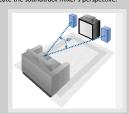
Even if you can't duplicate this ideal home theater setup exactly, the suggestions for speaker placement that follow will help you get good results.

Alignment
Align the center speaker evenly with (A), or slightly behind (B), the left and right speakers, but not ahead of them.



Advanced Setting

Angle
Placing the left and right speakers to form a 45degree angle with your favorite viewing position will
duplicate the soundtrack mixer's perspective.

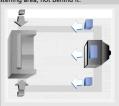


Height

The mid- and high-frequency drivers of the three front speakers should be as close as possible to the same height. This often requires placing the center speaker directly atop (A) or beneath (B) the TV set.



If possible, place surround speakers to either side of the listening area, not behind it.



If space permits, install surrounds 2-3 feet above viewers. This helps to minimize localization effects.



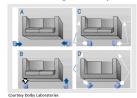
Aiming surrounds straight across the room, not down at viewers, helps create a more open, spacious sur-round sound field.



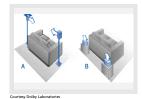
Advanced Setting **Alternative Surround Placement**

Rear wall

If rear wall mounting is the only choice, aim the speakers at each other (A), towards the front (B) or even towards the sidewalls (C, D). Experiment with placement until surround sounds seem to envelop you, rather than coming from behind you.



No adjacent walls Surrounds can go on stands facing each other to approximate the preferred sidewall mounting (A), or to the sides or rear of the viewing area aimed upwards. In the latter case, they can go right on the floor, or preferably, a few feet off the floor such as on end tables (B).



Test Tone / Channel balance

Channel balance

Your receiver is equipped with a test signal generator for balancing the channels. As the signal "travels" from channel to channel, adjust the level controls until each channel plays at the same loudness level. (details see operation of test/setup)



Level adjustment & surround channel level expectation

Even though you adjust the surround channel to be as loud as the others on the test signal, you'll find that on actual program material the surround channel is usually much lower than the front. Don't be tempted to readjust the surround level; program producers use surround mostly for subtle atmosphereics and ambience, and only rarely for special effects. A good surround mix doesn't call attention to itself; if it did, it would soon become distracting.

NOTE

The system is equipped with Dolby Digital, and manufactured under License from Dolby Laboratories.



"Pro Logic" and the double-D symbol are trade-marks of Dolby Laboratories. Copyright 1992-1997 Dolby Laboratories, Inc. All Rights Reserved.

Connecting for Power

Make sure you connect all your other electronic components and the



the speakers before plugging your receiver into the outlet. Plug the power cord in the wall outlet, matching the wide blade of the plug with the wide slot in the

outlet. Be sure to insert the plug completely

Using Headphones

USING Headphones
To listen privately through your
audio system, use the PHONES jack
on the receiver. However, make
sure you turn down the volume
before you put on the headphones. Increase the volume to the
desired level after headphones are
in place.



EN

Once headphones are connected, "HEADPHONE DOWMIX 2 CHANNEL" will scroll on display. This feature automatically converts multi-channel speaker outputs to 2 channel stereo for your listening pleas-

Hearing Comfort & Well-Being

• Do not play your headset at a high volume.
Hearing experts advise against continous extended

play.

• If you experience a ringing in your ears, reduce volume or discontinue use.

Factory Setting

The RT2580 is preset to the following setting when you first time turn on the power Function = Tuner Surround mode = Stereo (Left + Right (small)) + sub-

woofer on) Volume setting = 25 dB Bass & treble = 0 dB

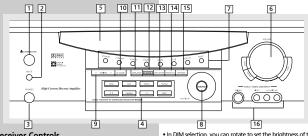
Restore to Factory Settings

You can always restore all settings back to its original state. When the receiver is in STANDBY mode, press accordingly to restore all settings back to factory

STADIUM → NIGHT→ DSP OFF → CLUB

NOTE

All preset radio stations and surround sound setting will be lost after factory setting is restored.



Receiver Controls
1. STANDBY/ON
To turn the unit on/ off. When the system is turned on, the unit will go to the mode it was in before power off.

2. MUTE To mute all audio outputs.

Plug your headphones (not supplied) into it for your private enjoyment. Speakers will be off when phones are inserted.

4. Source ButtonsTo select sound source. For example, CD, SAT etc.

DisplayTo display current status of the receiver.

6. Sound Control

- Let you adjust the sound volume, treble, bass & balance.

 To change the VOLUME, turn the large central knob.

 To adjust TREBLE or BASS, press relevant button and turn the
- To change the volume of individual speaker, press LEVEL button repeatedly to select the speaker, then turn the knob to adjust the level. (refer to "The TEST/SET UP button" on page 21)

7. DSP (Digital Sound Processor) & NIGHT mod

Press corresponding button to select the DSP mode (STADIUM/ CONCERT/ THEATER/ ARENA/ CHURCH/ CLUB/ OFF) you want. Press NIGHT for your enjoyment at night (see page 20).

8. MULTI JOG, FUNCTION
When pressing FUNCTION repeatedly, the display will toggle
among Audio Source (for DVD, SAT & CD), SLEEP mode and
DIM selection.

Please refer to page 20 for "Input Signal Setting".
• In SLEEP mode, you can set the receiver to turn off after 30, 60, 90 or 120 minutes.

• In DIM selection, you can rotate to set the brightness of the

display. Such setting will be stored.

• Use MULTI JOG for speakers and sub-woofers setup and pre-

Press for about 2 seconds to activate Automatic Preset function.

Press once to review all preset stations.

10. P. SCAN (Preset Scan)

ss and hold for about 2 seconds to start the automatic

11. SURR. MODE

peatedly to select the surround mode you want. (refer to "Advanced Sound Control" on page 20.)

12. 6 CH (6 Channels External Input)
Press to select the input connected to an external 6-Channel
decoder. Press again to return to the most recently selected
source mode. (see 6 Channel External Input on page 11).

13. TEST/ SET UP

13. TEST/ SET UP When pressing it briefly, a short noise (test tone) will be generated in the speakers one by one so that you can adjust the volume of individual speaker. When keep pressing for two seconds, it will enter setup mode for speakers and subwoofers. Rotate the MULTI JOG to choose the options. (refer to "The TEST/SET UP button" on page 21.)

Press repeatedly to select the desirable EQ mode (music style) – CLASSIC, POP, ROCK, JAZZ, VOCAL or FLAT. Your choice will be saved automatically.

15. BYPASS

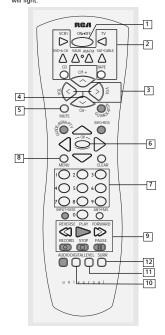
Press to go back to stereo sound (no DSP effect, no sound from center and surround speakers)

16. VCR2/Video Cam Input

For convenient use of your digital camera, family game machines, second VCR, etc.

Your Remote Control

Please be sure you have inserted the batteries into the remote control (see relevant section on page 3.) You can test it by pressing any button. If it works, the red LED will light.



NOTE

The remote buttons GO BACK*DISK, GUIDE*RDM*PTY, INFO*RDS, INPUT*SEEK & AUDIO do not work in tuner mode.

Operating Your Receiver

1. ON/OFF
To turn on or off the receiver and other auxiliary components (see page 14 "Using the Remote to Control Additional Components").

2. Source Buttons
To turn on and select various audio/ video sources. You can also enter the 6 Channels direct input mode by pressing DVD+6CH.

3. CH+, CH- (Channel Buttons)To select programmed stations (in TUNER mode).

4. VOL (Volume Buttons)
To adjust the volume.

5. MUTETo mute all audio outputs.

6. Adjustment Buttons
Press AUDIO button to activate the control, then upon pressing OXFUNCTION, the display will toggle among:
Press EQ (Stereo only),
SLEEP Mode
Under the display shows the setup you want to change, press the left and right arrow buttons beside OK button to make changes, then press OK to finalize your choice.

7. Number ButtonsTo access directly a pre-set station or to peripheral devices (in TUNER mode).

MENU (Tuner Mode only)
 Press AM/FM
 Press to store desired frequency in memory. The flashing word MEMORY in red will appear in display, input your desired channel number while the word is still flashing and the frequency will be stored. (For details, refer to "Storing and Recalling Stations in Memory" on page 10.)

9. Operation Buttons
In TUNER mode, press AM/FM on the remote.

Press REVERSE and FORWARD keys to tune down or up the radio frequency.

PLAY, RECORD, STOP and PAUSE keys are only for easy control of external devices that are connected to your receiver such as CD, IY, UDA, TAPE, etc. The remote control currently operates nost Thomson, RCA and GE products, but it can be programmed to operate devices from other host programmed to operate devices from other than the control Additional Components" on page 14.

10. DIGITAL
Select the way your audio/video components are connected to the receiver (Analog, Optical, Coaxial or Input/Output).

11. LEVEL
Press to adjust the volume of individual speaker. Press
repeatedly and the display will toggle among different
channels (Left front speaker, Right front speaker, Center
speaker, Left rear speaker, Right rear speaker, and
Subwoofer). Press the left and right arrow buttons beside
OK button for adjustment.

12. SURR (Surround Sound Control)
Press to change the surround sound settings. The display
will toggle among DOLBY DIGITAL, DOLBY PRO LOGIC,
DOLBY 3 STEREO, STEREO and DSP modes.

(For details, refer to section "Advanced Sound Control" on page 19.)

Display



□□ Digital

• Audio output is in Dolby Digital mode.

☐ Pro Logic

Audio output is in Dolby ProLogic mode.

☐☐ 3 Stereo

• Audio output is in 3 Stereo mode.

• Tuner stereo signal detected.

TUNED

· Tuner station detected.

• Unit is in DSP (Digital Sound Processing) mode.



• Speaker Icons.

SLEEP

• Unit in Sleep mode.

MEMORY

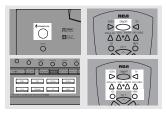
Unit in Memory mode.

KHz MHz

• Tuner frequency unit.

Switching on /off

• To switch on the receiver, press **STANDBY/ON** button (1) once. Alternatively, you can press any of the source buttons to power on the receiver.



- Standby: when the receiver is on, press the
 STANDBY/ON button once to activate the standby
- To switch off the unit completely, unplug the power cord from the socket

NOTE

Your receiver has a back up memory to keep your settings like preset radio station for about 2 weeks in case electricity cut occurs. If the receiver is unplugged for more than 2 weeks, all the settings will be lost and re-setting will be necessary.

Operating Your Receiver

Selection of Audio/Video source

When one of the source button is pressed, the audio and video input corresponding to the name will be activated.
The receiver acts as a switching device between all the sources that are plugged into to it.



Example 1:

If you connect a DVD player to the DVD input (audio + video) on the receiver and press the DVD button, you will be able to have the sound and image transmitted by the DVD.



Example 2:
Based on the example 1, the DVD is playing , if a
VCR is connected to the VCR 1 input (audio +
video) of the receiver and the VCR1 button is
pressed, image and sound from the VCR source will
replace the DVD.



Source button Corresponding connector (receiver front panel) (receiver back panel)

- DVD - SAT - VCR-1 - VCR-2 - CD DVD IN (audio / video) DVD IN (audio / video)
SAT IN (audio / video)
VCR-1 IN (audio / video)
VCR 2 IN (audio / video)
VCD IN (audio only)
TV IN (audio only) TV TAPE TAPE IN (audio only) - FM/AM built-in

When a source is selected, the source name will be shown on the display.

Example: Press $\ensuremath{\mathbf{DVD}}$ to select DVD as the source to the amplifier.



NOTE

- 1. Your receiver has a built in tuner. Just connect the appropriate antenna on the back of the receiver and you will be able to listen to radio stations. (See details in Tuner section)
- radio stations. (See details in Tuner section)
 2. Other sources can be connected to the
 above standard source. Example: you can connect a LD into the DVD inputs.
 3. Refer to the "Connecting To Audio-Visual
 Components" section for details on connec-

Using the Remote to Control Additional

You can set your remote to control other components (like CD, TV, DVD, TAPE, etc.). What you need is to encode them in advance (not necessary for recent RCA & Proscan models).

- 1. Turn on the component to be programmed.
- 3. Press and hold the corresponding Source Button (like VCR1, VCR2, TV, DVD) on the remote while entering the code from the code list using the Number Buttons.





4. Release the component button, then press **ON•OFF** to see if the component will be turned off.



5. If this does not work, repeat steps 3 and 4 by trying to use the next code (if available) listed for the brand of your component until the component responds to the remote command.

NOTE

Once your remote is encoded, you can press ON/OFF on the remote once to turn off the component and then followed by the second time quickly to turn off the receiver (i.e. this unit). If you only want the receiver to be turned off, select FM/AM while the unit is ON before pressing ON/OFF.

HINT

This remote may not operate all models of the brands shown.

If batteries are removed from the battery compartment of the remote control, all mem ory will be lost. You need to re-enter all previously programmed codes again.

The buttons on the remote may not work correspondingly with those on other brand components. Experiment with the remote and your components to see which buttons work. If only a few functions operate, check to see if another code set will work with more but-

Operating your Receiver

Using the receiver to play a source

After having properly connected a source (DVD, CD, VCR) to the receiver, you can partly control them through the receiver.

Playing a DVD with the receiver

1. Connect a DVD player to the receiver (see connecting your receiver for details)

NOTE

To play Dolby Digital sound, the source must be connected to the receiver via the optical or coaxial terminal (see "Digital Connection" on page 5 for details)

- 2. Press STANDBY/ON to switch on the receiver
- 3. Select the DVD source by pressing the $\ensuremath{\mathbf{DVD}}$ source button





EN

- 4. Switch ON the DVD player and start playback
- 5. Switch ON your TV
- 6. Select the appropriate A/V channel on the TV (refer to your TV manual for details) until the image from the DVD player is displayed
- 7. Set the sound Mode if needed (see "Advanced sound control" for details)

Example 1:
To play 5.1 Dolby Digital surround sound
Press SURR. MODE button until "Dolby Digital"
appears on the Display and all of the speakers'
icons light up.

Example 2: *DVD*: You may also need to select the Dolby Digital 5.1 on the DVD disc menu to have the digital surround enabled providing that the disc is encoded with Dolby Digital 5.1 (please refer to the DVD player and DVD disc instruction)

Operating your Receiver

Example 3:

LD: You may need to select a different Audio
Channel on your LD (refer to your LD player manual)

8. Adjust volume knob accordingly

Operating the Radio

The receiver has a built-in tuner that allows for AM/FM radio function.

Manual tuning
1. Connect the FM and AM antenna accordingly (see "Connecting the Antenna" on page 5 section for

2. Press STANDBY/ON to switch on the receiver.

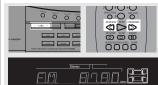


3. Press **AM/FM** and "TUNER" will flash on the display.



4- To select band, press the **AM/FM** button again to toggle between AM/FM mode. When an FM station broadcast Stereo sound, STEREO is displayed.

5- Tune the stations by pressing **TUNING UP** or **DOWN** repeatedly until the desired station is found. Alternatively, you can press and hold **TUNING UP** or **DOWN** for about one second to activate the automatic SEARCH function. In this mode the receiver will automatically tune frequencies until it finds a station. station



7. Repeat steps 5 or 6 to tune another radio station.

Select sound effect if needed by pressing Preset EQ or DSP sound (see "Advance sound section" for details)



NOTE

- 1. If there is interference, modify the location of the antenna until the optimal sound is heard. TV and other electronic devices could be the cause of interferences so try to position the antenna away of them.
- 2. Weak signal can affect the "auto Search function". Adjust the antenna for better reception for more efficient search.

Storing radio stations:

The receiver can store up to 30 radio stations in memory. You can enter every single radio station yourself or the receiver can store all available radio station automatically in an ascending order.

Automatic preset storing:
1. Select the band wave by pressing AM/FM repeatedly



2- Press and hold **P.SCAN** for 3 seconds. "MEMORY" will be displayed in red and will blink during the automatic storing process.





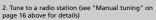
Radio frequencies will be browsed and radio station stored automatically. When all available radio stations are stored or if all 30 memory locations are full, the auto preset will stop.

NOTE

Weak signal can affect the "Automatic Preset Storing function" efficiency. Adjust the antenna for the best reception for more efficient search.

Operating your Receiver

Manual preset
1. Select the band wave by pressing AM/FM repeatedly



3. Press **MENU** on the remote control. "MEMO-RY" will appear on the display





4. While the word
"Memory" is still flashing, input your desired
preset number (1-30)
using the numeric keys
on the remote control to
store the radio station.



Operating your Receiver

Retrieving preset stations
1. Press AM/FM to select tuner mode



2. Rotate MULTI JOG on the receiver or press CH+ or CH- buttons on the remote to select preset stations.





6 Channel external input

6 Channel external input
An external decoder (Dts, Dolby Digital, etc...) or a
device with built-in multi-channel decoder and 6
channel output connector (DVD player, TV...) can be
connected to the 6CH input. It is therefore possible to
play any future 6 Channels coding (SACD, DVD
Audio) thanks to this connection. The external
decoder device will send the separated audio information to the receiver that will then amplify the signal and send to appropriate speakers.



To activate 6 Channel external input, press 6 CH on the receiver or press DVD/6 CH twice on the remote



Sound Enhancement Systems

This receiver is equipped with several built-in sound enhancement systems.

Dolby Pro Logic and Dolby 3 Stereo

Doiby Pro Logic and Doiby 3 Stereo
This surround system reproduces theater-like surround sound from Dolby-encoded software. The Pro
Logic mode uses the built-in circuit to steer the Left, Center, Right and Surround channel audio signals and uses all five speakers and an optional subwoofer to play decoded Dolby Pro Logic program source, such as TV and VCR.

The 3 Stereo mode will redirect the Surround signals to the front left and right speakers when only the front and center speakers are used.

Use this mode to suit your speaker system configura-tions (such as size and number of speakers) and type of program (such as VCR).





Advanced Sound Control

Dolby Digital

Dolby Digital
The Dolby Digital mode lets you enjoy full digital
surround from software processed in the Dolby
Digital format. Dolby Digital provides better sound
quality and more powerful presence than conventional Dolby Surround.

This unit is equipped with Dolby Digital 5.1-channel This unit is equipped with Dolby Digital 5.1-channel so that you can enjoy enhanced full digital surround sound. Being different from Dolby Pro Logic in which only four channels (Front Left, Front Right, Centre and Rear) are used, the new system provides stereo separation of the rear speakers (Rear-Right, Rear-Left). These 5 channels, together with the subwoofer channel for bass sounds (counted as 0.1 channel), constitute as 5.1-channel (or 6 Channels) Input for Dolby Digital that brings you the most sophisticated sound enjowment.

Recording Dolby Digital Source
To record from a digital (optical or coaxial) input
using a VCR/Tape that is connected to the receiver,
the sound must be set to stereo first.
Press SURR. MODE to select stereo mode.

If the receiver is set to 5.1 sound information recording from surround speaker, the center speaker will not be recorded.

The Stereo mode uses the two main channel outputs from the front speakers. Use this mode if you have connected the front speakers only.

DSP (Digital Sound Processor)

DSP (Digital Sound Processor)
These digital sound effects resemble sounds in a real environment such as Stadium, Concert, Theater, Arena, Church, Club. DSP automatically converts analog audio signals to digital ones which enables you to adjust the sound without degrading the sound quality. Different modes will give you different feel of size and type of listening environment. (Not available in Dolby Digital (DVD))

Night Mode

Night Mode
By using Dynamic Range Compression technology, you can enjoy enhanced sound quality by Dolby
Digital at night without interrupting your roommates or neighbors. While enjoying a Dolby Digital enabled component (DVD, SAT), you can activate Night Mode by pressing NIGHT button at the front of the receiver, and this mode will compress the difference in volume between normal voices and sounds like explosions.
There are two modes (SOFT, SOFTER) for you to choose the extents of compression.

Fine Setting of the Components

The receiver has pre-selected the best surround mode for you once you turn on the unit by pressing the Source Buttons (like DVD, SAT, CD) directly. The default surround modes for different components are as table below. If you decide to change the surround mode, you can press the SURR MODE repeatedly to toggle among the different surround mode choices and select the one you want.



Source/ Input	If Digital Input (optical or coaxial) is selected	If Analog Input is selected
DVD SAT VCR1 VCR2 TV CD TAPE TUNER	Dolby Digital/PRO LOGIC Dolby Digital/PRO LOGIC N/A N/A N/A STEREO N/A N/A	STEREO PRO LOGIC PRO LOGIC PRO LOGIC PRO LOGIC STEREO STEREO STEREO

The receiver will keep the last selection in memory.

Input Signal Setting

The receiver defaults to the most convenient settings for your easiest use (see table).

If your connection is different from the default set-

- 2. Press FUNCTION
 3. Rotate MULTI JOG to toggle among optical/ coaxial/ analog to match your connection. Your selection will be stored automatically.

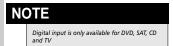


Every time you press the source button, the input setting (e.g. DVD/ OPTI) will be shown on display for a few seconds.

SOURCE	DEFAULT INPUT (as seen on display)
SAT	Coaxial (SAT/ COAX)
DVD	Optical (DVD/ OPTI)
CD	Analog (CD/ ANL)
VCR1	Analog (VCR1/ ANL)
VCR2	Analog (VCR2/ ANL)
FM/AM	Built-in Tuner
TAPE	Analog (TAPE/ ANL)
TV	Analog (TV / ANL)

Digital Input

Select this setting to play digital signals from a DVD, CD, LD player, SAT or TV.



Analog Input

Select this setting to play analog signals from a cas-sette deck, VCR or turntable.

SOURCE	AVAILABLE INPUT
SAT	ANL/Optical/Coaxial
DVD	ANL/Optical/Coaxial
CD	ANL/Optical/Coaxial
VCR1	ANL/ - / -
VCR2	ANL/ - / -
TAPE	ANL/ - / -
TV	ANL/ Optical / -

Fine Setting of the Speakers

This receiver supports a wide range of speakers and subwoofers. For optimal surround sound enjoyment, you need to register the speaker selection settings of your audio system. If you buy this receiver with accompanied speaker package, then this step has been done for you.

Also, to make the surround sound more effective and suit the acoustic conditions in your listening room, you need to delay the signal from some of the speakers. Such channel delay compensates for center or surround speakers that are closer to listening position than the front speakers. You can make use of the TESTI SET UP button to adjust the speakers' relative

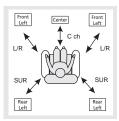
The TEST/ SET UP button

The TEST/ SET UP button
You can adjust the relative loudness of the individual speakers by TEST/ SET UP button. In Dolby modes, press the button briefly. A short noise will be heard in the speakers one by one. The speaker having the noise at that moment will be shown in the display. You can listen to that speaker and rotate the MULTI
TOG to adjust the level. JOG to adjust the level

Advanced Setting

Factory defaulted Advance setting indication from VFD

The receiver has defaulted the following distances:



Front speakers (L/R) Center speaker (Cch) Rear speaker (SUR)

Advanced Sound Control

Speaker Configurations
You can also change the setup of the speakers by pressing the TEST/SET UP button until the display shows LPR SML or UR. ItaG which enables you to set the size of the front speaker. Available Selections:

Large/ Small/ None Large/ Small/ None Large/ Small/ None Yes/ No Front Speaker selection Front Speaker selection Surround Speaker selection Subwoofer selection Subwoofer Phase Front Speaker distance Centre Speaker distance Rear Speaker distance

Pressing TEST/SETUP repeatedly while the display is still showing L/R LRG (about 5 seconds), the display will toggle among: front, center, surround, subwoofer, subwoofer phase and speakers' distance setup. Set the speaker size or speakers' distance by rotating the MULTI JOG.

NOTE

- The sub-woofer selection will always be YES when the main speakers are set to small
- For the subwoofer phase setting, it will be For the subwooter phase setting, it will be affected by how you locate the subwoofer. Try both + and - settings and select the one that has better bass effect.
 If your unit comes with speakers, always set all speakers size to "small" to protect them
- and optimize the sound quality.

Advance Sound Control

Use a subwoofer to enjoy optimum sound.
• Subwoofer Phase: Try both settings and select the sound preferred.
• Speaker distance: For optimum surround experi-

ence measure the distance between the speaker and your favorite listening position.

1. Press and hold TEST/SET UP for 3 seconds



2. While the VFD display is showing L/R SML, rotate **MULTI JOG** to select and release to save setting.



3. Press TEST/SETUP once to move to the next



4. Repeat step 3 to set up the next speaker

6. When set up is done, wait for 5 seconds to automatically save your settings or press any source key to save your selection and set up mode.





The receiver shows you the speakers' types and settings on the display with the following icons:



Displaying Program Formats

When a digital source is playing, the receiver will automatically switch to the proper surround mode and indicates on the speaker icons on the right-hand side of the display. (See diagram)



It is important to note, however, that not all Dolby Digital sources are encoded with the full complement of five channels plus LFE*. Speaker icons show how many and which speaker you have enabled (See "Fine Setting of the Speakers") and the letters inside the speaker icons show which channel is present in the speaker icons show which channel is present in the speaker fours around which trainers by present in the source information. For example, the diagram shown means you have all the five speakers and subwoofer enabled and the digital sources you played have five channels plus LFE complemented.

* LFE stands for Low Frequency Effect. The indication "LFE" appears if the digital source contains LFE infor-mation. In this case, the bass signal will be delivered to the subwoofer, offering more dynamic deep bass sound effects. If the letter is flashing, the signal is either too weak or just gone.

Troubleshooting Tips

Receiver/Tuner Operation

STEREO indicator is off.

The signal is Mono. Severe hum or noise.

• The signal is too weak. Connect an external anten-

Remote Control Operation

The remote control does not operate the unit.

A Another function mode is selected on the remote. Press the correct Source Button.

No batteries installed. (included with your system) Install the batteries before attempting to operate the remote. Be sure to match the + and - ends of each battery to the symbols shown in the remote battery compartment.

• The hatteries are weak Replace all hatteries

The parteries are weak. Replace all batteries.
 The remote is not pointed at the remote control sensor on the main unit or there is an obstacle between the remote and the main unit.
 The remote control is too far from the main unit,

General

No audio.

No audio.

• Make sure the speakers are connected.
• Check the input connections.
• Check the power cord connections.
• Make sure the MUTE indicator on the front panel is

• Make sure the digital setting (optical, coaxial or

No audio from one channel.

Check the speaker level setting.
 Check the speaker wire or cable connections.

Noise occurs when the TV is turned on.

• The TV is too close to the audio system

Specific instruments sound displaced.

Check the connections between the receiver and the speakers if the sound does not match the video.
 Press the Source Button for the video source.

Care and Maintenance

Cleaning the Exterior

• Disconnect the system from AC power before cleaning the exterior of the system with a soft dust cloth, or with a slightly damp leather chamois. Never use strong solvents.

Equipment Specifications:

AMPLIFIER SECTION:

Each channel: 100W at 8 ohm. 0.9% THD from 40Hz to 20KHz Subwoofer channel: 130W at 8Ω Muting Attenuation: 65dB

Frequency Response: 40Hz to 20kHz +/-3dB Signal to Noise Ratio: 65dB (Bypass mode)

VIDEO SECTION:

Input (Sensitivity/ Impedance):1Vp-p/ 75ohm Output (Level/ Impedance): 1Vp-p/ 75 ohm Frequency Response: 10Hz to 6MHz at +/- 3dB Signal to noise ratio: 40dB Crosstalk @3.58MHz: 40dB

AM TUNER SECTION: Frequency Response: 80Hz – 2kHz +/-6dB Usable Sensitivity: 800uV/m @ S/N 20dB Signal to Noise: 38dB Image Ratio: 27dB @ 1000kHz IF Rejection: 35dB

FM TUNER SECTION:

Frequency Response: 40Hz – 15kHz +/-3dB Quieting: 24dBu Signal to Noise: 60dB(stereo) / 65dB(mono) Image Ratio: 40dB IF Rejection: 50dB

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BROKSONIC
CALIX
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CAPEHART
CARVER
CCE
CITIZEN
COLORTYME
COLT
CRAIG
CURTIS-MATHES
CYBERNEX
DAEWOO
DAYTRON
DBX
DIMENSIA
DYNATECH
ELECTROHOME
ELECTROPHONIC
EMERSON
GE
GOLDSTAR
GRADIENTE
HARLEY DAVIDSON
HARMAN KARDON
HARWOOD
HEADQUARTER
HITACHI
HI-Q
INSTANT REPLAY
JCI
JC PENNEY
JENSEN
JVC
 KENWOOD
KLH
KODAK
LLOYD
LOGIK
LXI
MAGNAVOX
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MAGNIN MARANTZ

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2002, 2011, 2013, 2014, 2021, 2023, 2026, 2104, 2131
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	ADVENTURA	1174	
	AIKO	1016	
	AKAI	1002	
	ALLERON	1046	
	AMTRON	1038	
	ANAM NATIONAL	1003, 1038	
	AOC	1004, 1005, 1006, 1007, 1175, 1176	
	AUDIOVOX	1038	
	BELCOR	1004	
,	BELL & HOWELL BRADFORD	1001, 1083, 1162	
	BROKWOOD	1038 1004	
	CANDLE	1004, 1006, 1008, 1174	
	CAPEHART	1175	
	CELEBRITY	1002	
	CENTURION	1009	
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	CONCERTO	1004, 1006	
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	CRAIG	1038	
	CROWN	1038, 1171	
	CURTIS MATHES	1000, 1004, 1006, 1015, 1105, 1162, 1171	
	CXC	1038	
	DAEWOO	1004, 1005,1006, 1016, 1017, 1018, 1127,	
		1171	
	DAYTRON	1004, 1006, 1171	
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	DUMONT	1004, 1151 1178	
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	INFINITY	1062	
	JANEIL	1174	
	JBL	1062	
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Remote Codes

TV CODES

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Remote Codes

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1004, 1048, 1049, 1050, 1080, 1107, 1108, 1109, 1119, 1112, 1112, 1117, 1172, 1179, 1 SCOTCH SCOTT SEARS

SIMPSON SONIC SONY SOUNDESIGN SQUAREVIEW SSS STARLITE SUPRE-MACY SUPREME SYLVANIA TELECAPTION TMK TOSHIBA TOTEVISION UNIVERSAL VICTOR VIDTECH VIKING WARDS YAMAHA ZENITH

Satellite Receivers

CHAPPARAL
DRAKE
GE SATELLITE RECEIVER
GENERAL INSTRUMENTS
PANASONIC SATELLITE RE 5075 PRIMESTAR DBS PROSCAN SATELLITE RECEIVER RCA SATELLITE RECEIVER
REALISTIC
SONY SATELLITE RECEIVER
STS1
STS2
STS3
STS4 TOSHIBA TOSHIBA SATELLITE RECEIVER UNIDEN SATELLITE RECEIVER

Audio (RCA/Dimensia only)

AM/FM	4003
AUX	4004
PHONO	4005
CD	4007
TAPE	4006

Laser disc Players

PROSCAN RCA

What your warranty covers: • Defects in materials or workman

For how long after your purchase:

• One year from date of purchase for labor and parts

• The warranty period for rental units begins with the first rental or 45 days from date of shipment to the rental firm, whichever comes first.

What we will do:

wnat we will do:

- Pay any Authorized RCA Audio Service Center the labor charges to repair your unit.

- Pay any Authorized RCA Audio Service Center for the new or, at our option, refurbished replacement parts required to repair your unit.

How you get service:

How you get service:

* Take your unit to any Authorized RCA Audio Service Center. To identify your nearest Authorized RCA Audio Service Center, eak your dealer, look in the Yellow Pages, or call 1-800-336-1900.

* Show the Authorized Service Center Representative your evidence of purchase date or first rental.

* Pick up your unit when repairs are completed.

* Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the product is within the warranty period must be presented to obtain warranty service. For rental firms, proof of first rental is also required.

What your warranty does not cover:

What your Warranty does not cover.

Customer instruction. (Your Owner's Manual describes how to install, adjust, and operate your unit. Any additional information should be obtained from your dealer.)

Installation and related adjustments

Signal reception problems not caused by your unit.

Damage from misuse or neglect. Cleaning of audio heads.

purposes.

• A unit purchased or serviced outside the U.S.A.

• Acts of nature, such as but not limited to lightning damage.

Product Registration:
Product Registration:
Please complete and mail the Product Registration Card packed with your product. It will make it easier to contact you should it ever be necessary. The return of the card is not required for warranty coverage.

Limitation of Wartanty:

• THE WARRANTY STATED ABOVE IS THE ONLY WARRANTY APPLICABLE TO THIS PRODUCT. ALL OTHER WARRANTY APPLICABLE TO THIS PRODUCT. ALL OTHER WARRANTES, EXPRESS OR IMPLIED (INCLUDING ALL IMPLIED WARRANTIES OF MERICHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) ARE HERBEY DISCLAIMED. NO VERBAL OR WRITTEN INFORMATION GIVEN BY THOMSON MULTIMEDIA INC., ITS AGENTS OR EMPLOYEES SHALL CREATE A GUARANTY OR IN ANY WAY INCREASE THE SCOPE OF THIS WARRANTY.

• REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY ST HE EXCLUSIVE REMEDY OF THE CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS FRODUCT OR ARISING OUT OF ANY BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT, THIS DISCLAIMER OF WARRANTY AND LIMITED WARRANTY ARE GOVERNED BY THE LAWS OF THE STATE OF INDIANAL EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED TO THE APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED TO THE APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED TO THE APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE.

Limited Warrranty (US)

How State Law relates to warranty:

• Some states do not allow the exclusion nor limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you.

This warranty gives you specific legal rights, and you also may have other rights that vary from state to state.

If you purchased your unit outside the United

States:
• This warranty does not apply. Contact your dealer for warranty information.

Service calls which do not involve defective materials or workmanship are not covered by this warranty. Costs of such service calls are the sole responsibility of the purchaser.

Limited Warranty (Canada)

What your warranty covers: • Defects in materials or workmanship

For how long after your purchase:

One year from date of purchase for labor and parts
The warranty period for rental units begins with the first rental or 45 days from date of shipment to the rental firm, whichever comes first.

- What we will do:
 Pay any Authorized RCA Audio Service Center the labor charges to repair your unit.
 Pay any Authorized RCA Audio Service Center for the new or, at our option, refurbished replacement parts required to repair your unit.

- How you get service:

 Take your unit to any Authorized RCA Audio Service Center. To identify your nearest Authorized RCA Audio Service Center, ask your dealer, look in the Yellow Pages, or call 1-800-336-1900.

 Show the Authorized Service Center Representative your evidence of purchase date or first rental.

 Pick up your unit when repairs are completed.

 Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the product is within the warranty period must be presented to obtain warranty service. For rental firms, proof of first rental is also required.

- What your warranty does not cover:

 Customer instruction. (Your Owner's Manual describes how to install, adjust, and operate your unit. Any additional information should be obtained from your dealer.)

 Installation and related adjustments.

 Signal reception problems not caused by your unit.

 Damage from misuse or neglect.

 Cleaning of audio heads.

- Batteries.
 A unit that has been modified or incorporated into other products or is used for institutional or other commercial

Product Registration:
• Please complete and mail the Product Registration Card packed with your product. It will make it easier to contact you should it ever be necessary. The return of the card is not required for warranty coverage.

- Limitation of Warranty:

 THE WARRANTY STATED ABOVE IS THE ONLY WARRANTY APPLICABLE TO THIS PRODUCT. NO VERBAL OR WRITTEN INFORMATION GIVEN BY THOMSON MULTIMEDIA LTD., ITS AGENTS OR EMPLOYEES SHALL CREATE A GUARANTY OR IN ANY WAY INCREASE THE SCOPE OF THIS WARRANTY.

 REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. THOMSON MULTIMEDIA LTD. SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE PROVINCIAL LAW, ANY IMPLED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE.

How Provincial Laws relates to warranty:
• This warranty gives you specific legal rights which are in addition to statutory warranties that may vary from Province to Province.

If you purchased your unit outside Canada:
• This warranty does not apply. Contact your dealer warranty information.

Service calls which do not involve defective materials or workmanship are not covered by this warranty. Costs of such service calls are the sole responsibility of the purchaser.