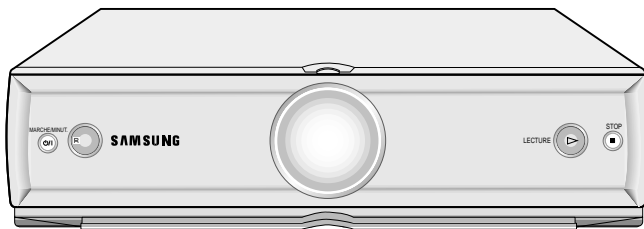




**VIDEO
CASSETTE RECORDER
Hi-Fi NICAM & A2 STEREO
SV-647F**

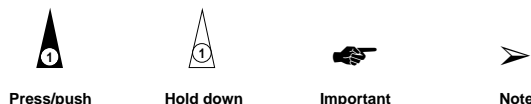
Instruction Manual



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Symbols



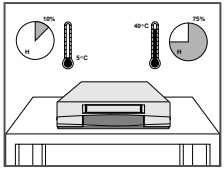
① = Step number

Safety Instructions

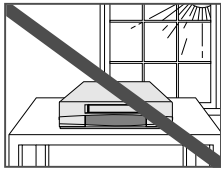
The following illustrations represent precautions.



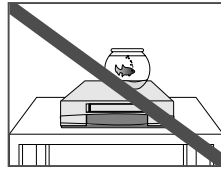
The lightning bolt is a warning sign alerting you to dangerous voltage inside the product.
DO NOT OPEN THE VCR. Refer to service personnel.



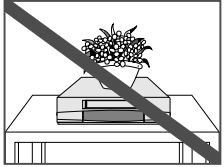
Do NOT expose the VCR to extreme temperature conditions (below 5°C and above 40°C) or to extreme humidity conditions (less than 10% and more than 75%).



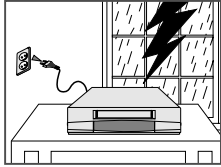
Do NOT expose the VCR to direct sunlight.



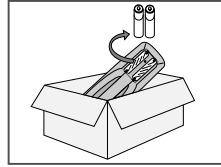
Do NOT expose the VCR to any liquids.



Do NOT place any objects on the VCR or remote control.



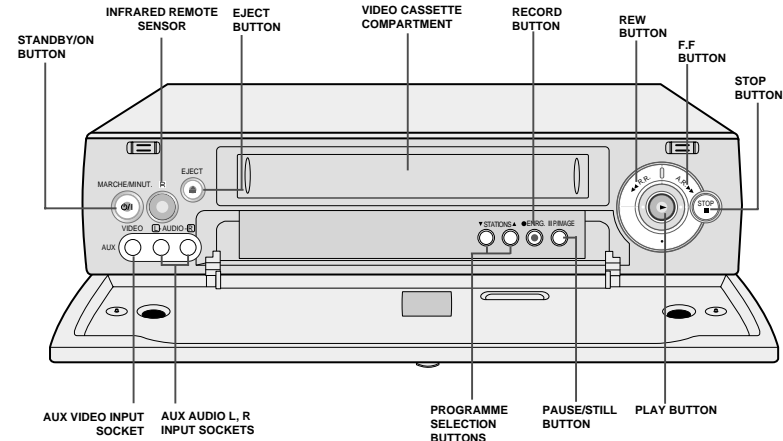
During a storm and/or lightning, unplug the VCR from the mains socket and aerial.



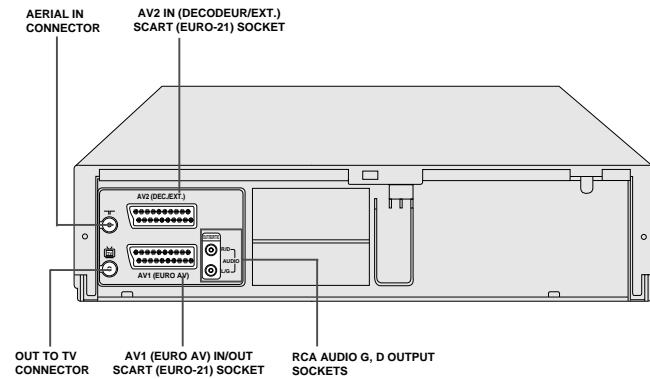
If the remote control is not used for a long period of time, remove the batteries and store it in a cool, dry place.

THIS DEVICE IS NOT FOR USE IN INDUSTRIAL ENVIRONMENTS

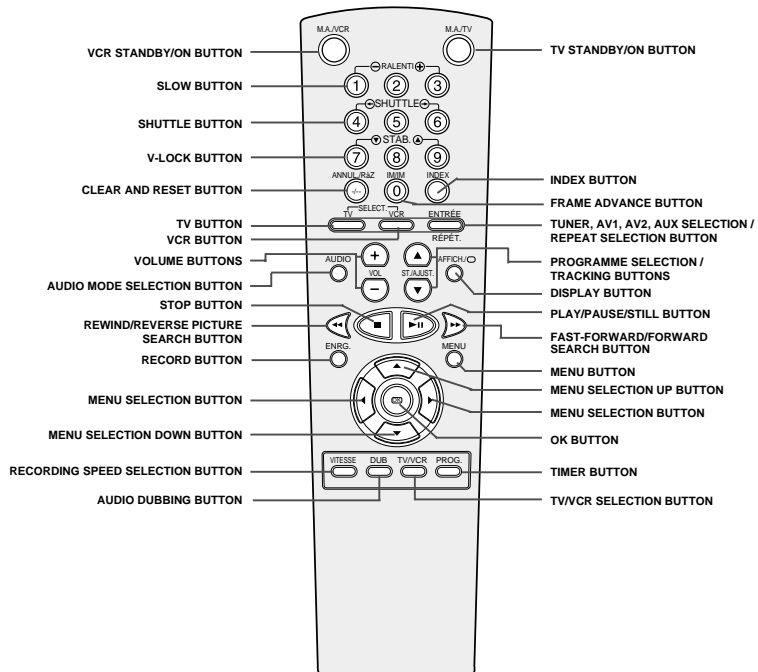
Front View of the VCR



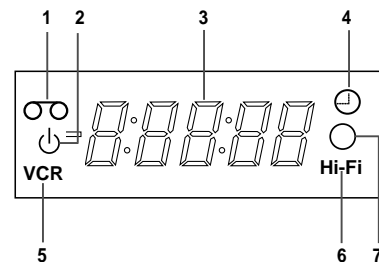
Rear View of the VCR



Infrared Remote Control



Display Indicator



- 1 Cassette loaded indicator
- 2 ECO Mode display
- 3 Multi-function display
- 4 Timer indicator
- 5 VCR indicator
- 6 Hi-Fi indicator
- 7 Rec indicator

Accessories

You have just purchased a SAMSUNG Video Cassette Recorder (VCR). Together with your VCR, you will find the following accessories in the box.







REMOTE CONTROL & BATTERIES "AA"	OWNER'S INSTRUCTIONS	COAXIAL CABLE	RCA AUDIO CABLE	SCART CABLE

Deciding How to Connect Your VCR

You must take into account various factors when connecting audio or video systems:

- ◆ Types of connectors available on your systems
- ◆ Systems connected permanently to the VCR (satellite receiver for example) or temporarily (camcorder for example)

Your VCR is equipped with the following connectors.

Connector	Location	Type	Direction	Recommended Use
AV1	Rear 	SCART	In/Out ↔	<ul style="list-style-type: none"> ◆ Television ◆ Satellite receiver ◆ Other VCR
AV2	Rear 	SCART	In/Out ↔	<ul style="list-style-type: none"> ◆ Decoder for scrambled Pay TV broadcasts Example: CANAL+. ◆ Satellite receiver ◆ Other VCR
AUX	Front 	Audio/Video RCA	In ↔	<ul style="list-style-type: none"> ◆ Audio Hi-Fi system ◆ Camcorder ◆ Hi-Fi Stereo VCR
Audio output	Rear 	Audio RCA	Out →	<ul style="list-style-type: none"> ◆ Audio Hi-Fi system
OUT TO TV	Rear 	75 Ω coaxial	Out →	<ul style="list-style-type: none"> ◆ Television
IN FROM ANT.	Rear 	75 Ω coaxial	In ↔	<ul style="list-style-type: none"> ◆ Aerial ◆ Cable television network ◆ Satellite receiver

Whenever you connect an audio or video system to your VCR, ensure that all elements are switched off.

Refer to the documentation supplied with your equipment for detailed connection instructions and associated safety precautions.



Connecting Your VCR to the TV using the Coaxial Cable and SCART cable

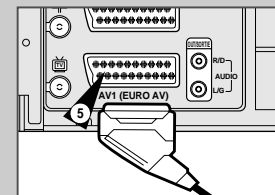
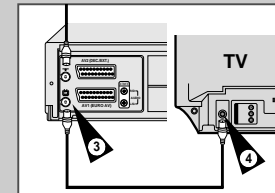
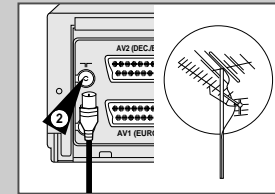
Connecting Your VCR to the TV using the Coaxial Cable and SCART cable

To receive television programmes a signal must be received from one of the following sources:

- ◆ An outdoor aerial
- ◆ An indoor aerial
- ◆ A cable television network
- ◆ A satellite receiver

Make sure that both the television and the VCR are switched off before connecting the cables.

- 1 Remove the aerial or network input cable from the television.
- 2 Connect this cable to the 75Ω coaxial socket marked  on the rear of your VCR.
- 3 Plug the coaxial cable supplied into the  socket on your VCR.
- 4 Plug the other end of the coaxial cable into the connector previously used for the aerial on the television.
- 5 Connect one end of the scart cable to the AV1 (EURO AV) socket on the rear of the VCR. You must connect your VCR to the television via the scart cable.
- 6 Plug the other end into the appropriate connector on the television.



Connecting a Decoder for scrambled PAY TV broadcasts

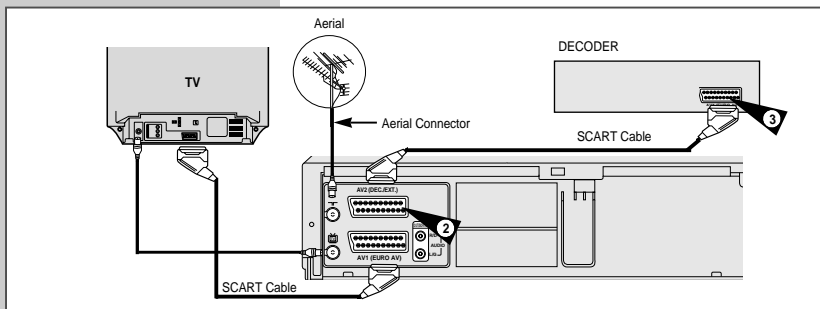
This VCR is fully equipped to receive scrambled Pay TV broadcasts.

Example: CANAL+ or Premiere broadcasts.

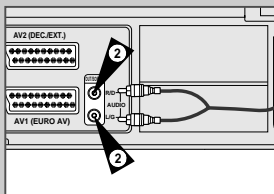
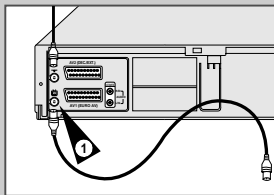
You can:

- ◆ Record a scrambled programme while watching another channel
- ◆ Record another channel while watching a scrambled programme

- 1 Connect the VCR to the television as indicated on page 9.
- 2 Plug the SCART cable with the decoder into the AV2 (DEC./EXT.) socket on the rear of the VCR.
- 3 Plug the other end into the decoder.



Connecting the Audio Output Cable



10

You can connect your VCR to a Hi-Fi system.

Example: You wish to take advantage of the quality of your Hi-Fi stereo system when watching a programme or recording via your VCR.



- ◆ Regardless of the type of connection chosen, you must always connect the coaxial cable supplied. Otherwise, no picture will be visible on the screen when the VCR is switched off.
- ◆ Make sure that both the television and the VCR are switched off before connecting the cables.

- 1 Connect the coaxial cable or SCART as indicated on page 9.
- 2 Plug the audio output cable into the audio connectors on the rear of your VCR.
 - Respect the colour coding of the left and right channels.
- 3 Plug the other end of the audio cable into the appropriate input connectors on your Hi-Fi stereo system.

Connecting Your VCR to the Satellite receiver or Other Equipment

GB

You can connect your VCR to the Satellite receiver or other VCR using the SCART cable if the appropriate outputs are available on the equipment chosen. The following illustrations give a few examples of the connection possibilities.

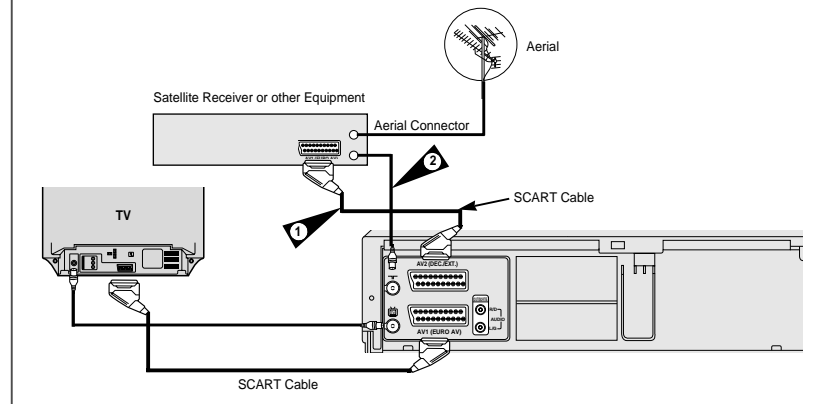
1. AV2(DEC./EXT.): By means of 21-pin Scart Cable

Plug the SCART Cable with satellite receiver or other equipment into the AV2(DEC./EXT.) socket on the rear of the VCR.

After making this connection, select the source by pressing the INPUT button for the AV2 input sources.

2. By means of RF Coaxial Cable

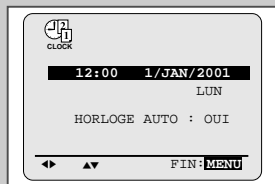
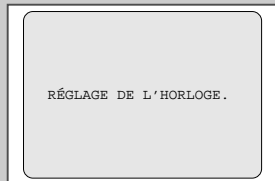
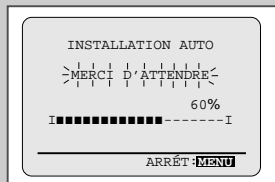
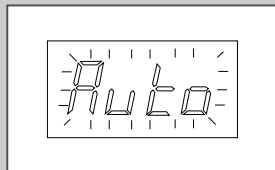
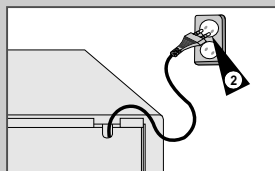
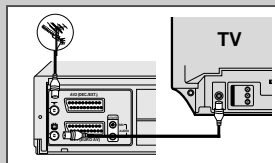
After making this connection, you must preset the station received through the satellite tuner.



If you connect the DVD player into the AV2(DEC./EXT.) socket on the rear of the VCR, you have to select normal video output in the video display menu of DVD player.

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Plug & Auto Set Up



Your VCR will automatically set itself up when it is plugged into the mains for the first time. TV stations will be stored in memory. The process takes a few minutes. Your VCR will then be ready for use.

- 1 Connect the coaxial cable as indicated on page 9.
(Connecting Your VCR to the TV Using the Coaxial Cable)
- 2 Plug the VCR into the mains. The message "L'INSTALLATION AUTO VA DEBUTER. VERIFIER LES BRANCHEMENTS DE VOTRE MAGNETOSCOPE." will be displayed. It will automatically tune itself in and store TV stations in the memory.
- 3 The process will finish after a few minutes. Then the date and time are set automatically from the broadcast signal, but this function will not operate if there is no Teletext signal.

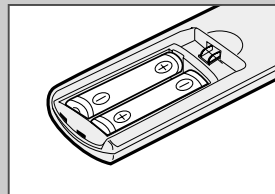
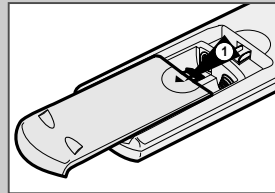
Inserting Batteries in the Remote Control

You must insert or replace the batteries in the remote control when you:

- ◆ Purchase the video cassette recorder
- ◆ Find that the remote control is no longer working correctly

- 1 Push the tab in the direction of the arrow to release the battery compartment cover on the rear of the remote control.
- 2 Insert two AA, R6 or equivalent batteries, taking care to respect the polarities:
 - ◆ + on the battery with + on the remote control
 - ◆ - on the battery with - on the remote control
- 3 Replace the cover by aligning it with the base of the remote control and pushing it back into place.

➤ Do not mix different battery types (manganese and alkaline for example).



GB

Setting the Date and Time

Your VCR contains a 24-hour clock and calendar used to:

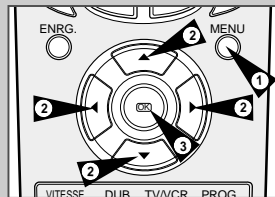
- ◆ Automatically stop programme recording
- ◆ Preset your VCR to record a programme automatically

You must set the date and time when:

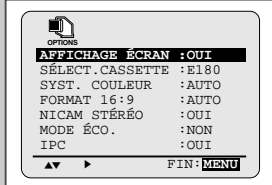
- ◆ You purchase the video cassette recorder

- ◆ The date and time are set automatically from the broadcast signal, but this function will not operate if there is no Teletext signal.
- ◆ Do not forget to reset the time when you change clocks from winter to summer time and vice versa.

- 1 Press MENU on the remote control.
Result: The programming menu is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the **RÉGLAGE HORLOGE** option.
- 3 Press the OK button to select this option.
Result: The **RÉGLAGE HORLOGE** menu is displayed.
- 4 Press ◀ or ▶ to select the hour, minutes, day, month and year.
Result: The option selected flashes.
- 5 Press the ▲ or ▼ buttons to increase or decrease the value.
Result: The day of the week is displayed automatically.
➤ You can hold the ▲ or ▼ buttons down to scroll more quickly through the values.
- 6 On completion, press MENU twice to exit the menu.



Displaying/Hiding On-Screen Information



Your VCR displays most information both on the VCR and the television.

You can choose to display or hide this information on the television screen (except for the Index, Programming MENU and Timer function, which cannot be hidden).

- Press MENU on the remote control.
Result: The programming menu is displayed.
- Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the **RÉGLAGES UTILISATEUR** option.
- Press the OK button to select this option.
Result: The **RÉGLAGES UTILISATEUR** menu is displayed.
- Press the corresponding ▲ or ▼ buttons, until the **AFFICHAGE ÉCRAN** option is selected.
- To...** Press ◀ or ▶, until...

Display on-screen information	OUI is displayed.
Hide on-screen information	NON is displayed.
- On completion, press MENU twice to exit the menu.

Choosing Your Language



You can change the language in which information is displayed on the screen.

- Press MENU on the remote control.
Result: The programming menu is displayed.
- Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the **SÉLECTION LANGUE** option.
- Press the OK button to select this option.
Result: The **SÉLECTION LANGUE** menu is displayed.
- Select the required language by pressing the ▲, ▼ or ◀, ▶ buttons.
- Press OK to store the language selected.
- Press MENU to exit the menu.
Result: From now on, all the on-screen information will be displayed in the language selected.

Presetting the Stations Automatically

You do not need to preset the stations if you have already set them automatically (see Plug & Auto Set Up on page 12).

Your VCR contains a built-in tuner used to receive television broadcasts.

You must preset the stations received through the tuner. This can be done:

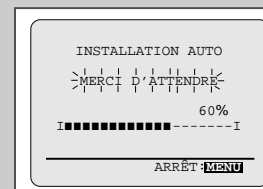
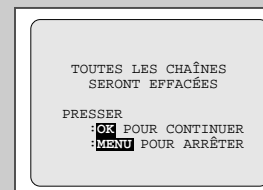
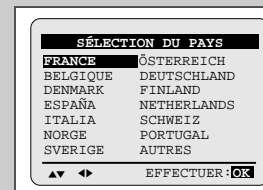
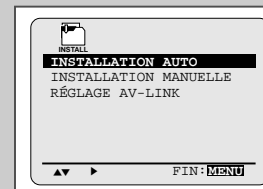
- ◆ Plug & Auto Set up (see page 12)
- ◆ Automatically
- ◆ Manually (see page 16)

You can store up to 80 stations.

➤ To enable the VCR to decode a scrambled TV station, the decoder must be activated after the scan (see pages 16).

- Press the MENU button on the remote control.
Result: The programming menu is displayed.
- Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the **INSTALLATION** option.
- Press the OK button to select this option.
Result: The **INSTALLATION** menu is displayed.
- Press the corresponding ▲ or ▼ buttons, until the **INSTALLATION AUTO** option is selected. And then press the ▶ button to select this option.
Result: The country selection MENU is displayed.
- Press the ▲ or ▼ buttons to select your country.
 ➤ The VCR searches for the stations according to a preset preference list corresponding to the country that you have selected.
- Press OK button.
Result: A message appears, indicating that any channels already preset on your VCR will be deleted.
- Press OK to start the auto scanning.
Result:
 - ◆ The **MERCI D'ATTENDRE** indication flashes on the television screen.
 - ◆ The first frequency band is scanned and the first station found is displayed and stored.
 - ◆ The VCR then searches for the second station and so on.
 - ◆ When the automatic scanning procedure has finished, the VCR switches automatically to programme 1.
 ➤ The number of stations automatically stored by the VCR depends on the number of stations that it has found. (country, reception conditions, etc.)
- If you wish to cancel the auto scanning before the end, press the MENU button three times to exit the menu.

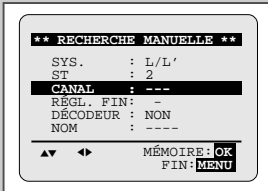
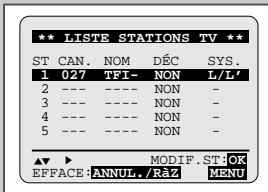
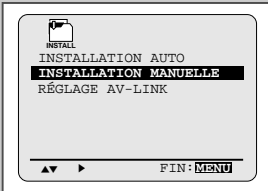
-
- ◆ The time and date are set automatically from the broadcast signal. If the signal is weak or ghosting occurs, the time and date may not be set automatically. In this case, they should be set manually (see page 13).
 - ◆ Once the auto scanning procedure has finished, some stations may have been stored more than once; select the stations with the best reception and delete the ones no longer required (see page 17).



Presetting the Stations Manually

You do not need to preset the stations manually if you have already set them automatically.

To enable the VCR to decode a scrambled TV station, the decoder must be switched on.



- 1 Press the MENU button on the remote control.
Result: The programming menu is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the **INSTALLATION** option.
- 3 Press the OK button to select this option.
Result: The **INSTALLATION** menu is displayed.
- 4 Press the ▲ or ▼ buttons to select **INSTALLATION MANUELLE** option.
- 5 Press the ▶ button to select this option.
Result: The **LISTE STATIONS TV** menu is displayed.
- 6 Press the ▲ or ▼ buttons to select a programme number as required.
- 7 Press the ▶ button to preset the station.
Result: The **RECHERCHE MANUELLE** menu is displayed.
- 8 Press the corresponding ▲ or ▼ buttons, until the **SYS. (SYSTÈME)** is selected. And then press ◀ or ▶ buttons to select the system if necessary.
- 9 Press the ▼ button to select **CANAL**.
- 10 Press the ◀ or ▶ buttons to start scanning.
Result: The frequency band is scanned and the first station found is displayed.
If you know the number of the channel you want, press the numeric buttons on the remote control for example, for channel E21, first press "0" and then press "2", "4" (see page 51).
- 11 Press the ▼ button, until the **DÉCODEUR** is selected.
- 12 Press the ▶ button to activate or deactivate use of the decoder for the TV station, if necessary.
- 13 Press the ▲ or ▼ buttons until the **NOM** is selected.
The station name is set automatically from the broadcast signal.
- 14 To change the programme's name, press the ▶ button.
Result: The first letter of the name flashes.
- 15

To...	Then...
Select a character in the name	Press the ▲ or ▼ button until the required character is displayed (letters, numbers or "-" character).
Move to the next or previous character	Press the ▶ or ◀ buttons respectively.
- 16

If you...	Then...
Wish to store the station displayed	<ul style="list-style-type: none"> ◆ Press the corresponding ▲ or ▼ buttons, until the RÉGL. FIN is selected. ◆ Press the ◀ or ▶ buttons to adjust the picture, if necessary. ◆ Press OK to store the station.
Do <u>not</u> wish to store the station displayed	<ul style="list-style-type: none"> ◆ Press the corresponding ▲ or ▼ buttons, until the CANAL is selected. ◆ Press the ◀ or ▶ buttons to go on scanning the frequency band and display the next station ◆ Go back to the beginning of Step 16
- 17 Repeat this procedure from Step 6 onwards, until all the required stations have been stored.
- 18 On completion, press the MENU button three times to exit the menu.

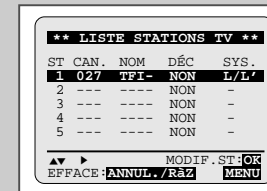
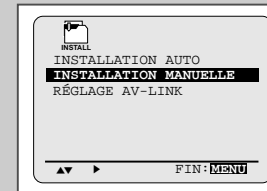
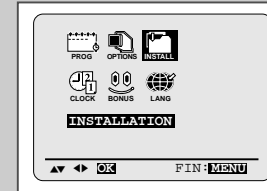
Clearing a Preset Station

If you have stored a TV station:

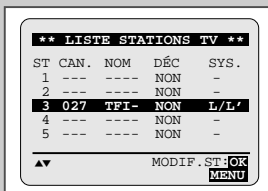
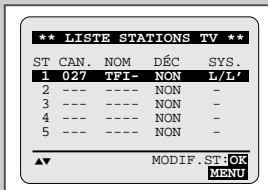
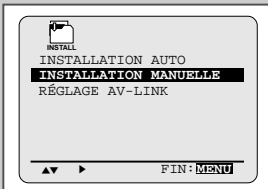
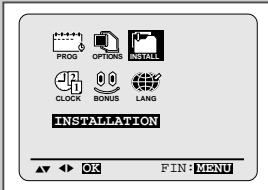
- ◆ That you do not require
- ◆ At the wrong programme position

you can cancel it.

- 1 Press the MENU button on the remote control.
Result: The programming menu is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the **INSTALLATION** option.
- 3 Press the OK button to select this option.
Result: The **INSTALLATION** menu is displayed.
- 4 Press the ▲ or ▼ buttons to select **INSTALLATION MANUELLE** option.
- 5 Press the ▶ button to select this option.
Result: The **LISTE STATIONS TV** menu is displayed.
- 6 Press the corresponding ▲ or ▼ buttons, until the required preset TV station (ST) is selected.
- 7 Press the ANNUL./RàZ button.
- 8 Repeat the same procedure from Step 6 onwards until all the required stations have been cleared.
- 9 On completion, press the MENU button three times to exit the menu.



Changing the Preset Station Table



You can rearrange the preset TV stations according to your own preferences programme number assigned to the station.

- 1 Press the MENU button on the remote control.
Result: The programming menu is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the **INSTALLATION** option.
- 3 Press the OK button to select this option.
Result: The **INSTALLATION** menu is displayed.
- 4 Press the ▲ or ▼ buttons to select **INSTALLATION MANUELLE** option.
And then press the ▶ button to select this option.
Result: The **LISTE STATIONS TV** menu is displayed.
- 5 Press the corresponding ▲ or ▼ buttons, until the required preset TV programme is selected.
Result: The selected station is displayed at the same time on the television screen.
- 6 To change the programme number assigned to a station press the OK button on the remote control. (For example, To move a TV station in programme 1 to programme 3)
- 7 Press the ▲ or ▼ buttons to select required position. And then press OK again to swap the position.
- 8 You can modify this station by repeating the same procedure from Step 5 onwards.
- 9 On completion, press the MENU button three times to exit the menu.

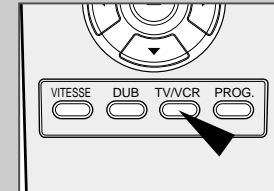
Switching between the TV and VCR Modes

The TV/VCR button allows you to record one channel with the VCR while you watch another channel on the TV.

When the VIDEO indicator is... Your television...

- On
- The television receives the picture from the VCR and you can select channels with the ST. (▲ or ▼) buttons on the VCR or ST./AJUST. (▲ or ▼) on the remote control.
- Off (or the VCR is turned off)
- The television receives the picture from your home aerial or cable television system as it did before you connected the VCR.
You can then use the programme (▲ or ▼) buttons on your television to select the channels.

To switch the VCR indicator on and off, simply press the TV/VCR button.

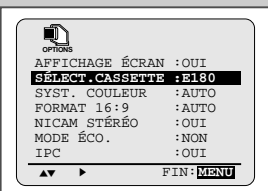
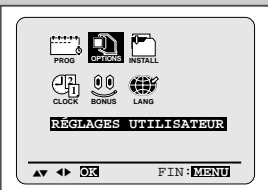


Selecting the Cassette Type

If you wish to use the tape counter to display the time remaining on a cassette, you must indicate the type of cassette inserted.

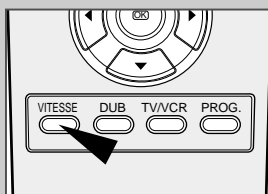
- Press MENU on the remote control.
Result: The programming menu is displayed.
- Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the **RÉGLAGES UTILISATEUR** option.
- Press the OK button to select this option.
- Press the corresponding ▲ or ▼ buttons, until the **SÉLECT. CASSETTE** option is selected.
- Press the ◀ or ▶ buttons as many times as required, until the correct cassette length is displayed.

▶	E180	→	E240	
	E 300	←	E260	◀
- Press MENU twice to exit the menu.



Selecting the Recording Speed

Type	Recording Time (in SP)
E-180	180 mins. or 3 hours
E-240	240 mins. or 4 hours
E-260	260 mins. or 4 hours and 20 mins.
E-300	300 mins. or 5 hours



You can record a cassette at two different speeds:

- ◆ **STD (Standard Play)**
 - ◆ **DBL (Long Play)**
- In Long Play modes:
- ◆ Each cassette lasts twice as long
 - ◆ The recording is of a slightly lower quality

To record a cassette... Press the **VITESSE** button on the remote control, until...

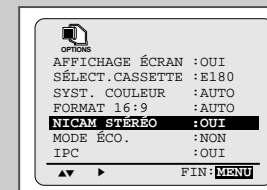
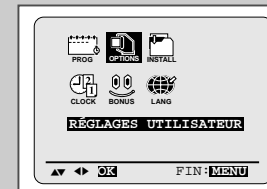
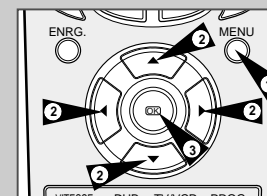
In standard play mode **STD** is displayed.
In long play mode **DBL** is displayed.

NICAM

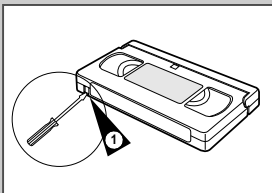
NICAM programmes are divided into 3 types. NICAM Stereo, NICAM Mono and Bilingual (transmission in another language). NICAM programmes are always accompanied by a standard mono sound broadcast and you can select the desired sound. Please refer to page 31.

- Press MENU on the remote control.
Result: The programming menu is displayed.
- Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the **RÉGLAGES UTILISATEUR** option.
- Press the OK button to select this option.
Result: The **RÉGLAGES UTILISATEUR** menu is displayed.
- Press the corresponding ▲ or ▼ buttons, until the **NICAM STÉRÉO** option is selected.
- To... Press ◀ or ▶, until...

Mono mode	NON is displayed.
	NON: Only set at this position to record the standard mono sound during a NICAM broadcast if the stereo sound is distorted due to inferior reception conditions.
NICAM mode	OUI is displayed.
	OUI: Normally set at this position.
- On completion, press MENU twice to exit the menu.



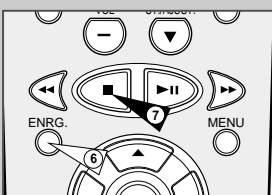
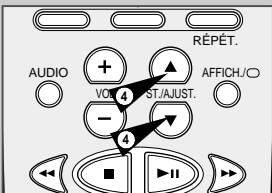
Protecting a Recorded Cassette



Video cassettes have a safety tab to prevent accidental erasure. When this tab has been removed, you cannot record on the tape.

- 1 If you wish to protect a cassette, break off the tab using a small screwdriver.
- 2 To re-record over a protected cassette (safety tab broken), cover the hole with adhesive tape.

Recording a Programme Immediately



Before recording a programme, you must have preset the corresponding station (unless you are recording via an external video source). If you have not done so, refer to pages 15 and 16.

- 1 Switch on the television.
- 2 To monitor the programme being recorded, select the AV input of the television.
- 3 Insert the cassette on which the programme is to be recorded, with the window visible and the safety tab intact or the opening covered with adhesive tape.
Result: The VCR is switched on automatically.
- 4 Select:
 - ◆ The station to be recorded using the ST./AJUST. (▲ or ▼) buttons
 - or
 - ◆ The AV1, AV2 or AUX source using the ENTRÉE button for a satellite tuner or external video source**Result:** The station number is displayed and the programme can be seen on the television.
- 5 Select the recording speed (STD/DBL) by pressing the VITESSE button as many times as required (see page 20).
- 6 Hold ENRG. down for a while to start recording.
Result: The record indicator appears on the television and VCR display. An index is recorded on the tape (see page 33).
- 7 To stop recording, press ■ once.

-
- ◆ If the cassette is ejected when you start recording, check that the safety tab is intact or the opening is covered with adhesive tape.
 - ◆ If you reach the end of the tape while recording, the cassette rewinds automatically.

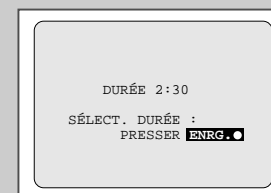
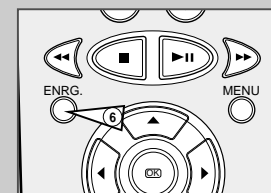
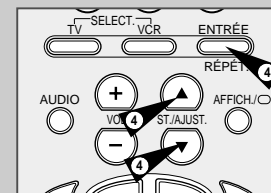
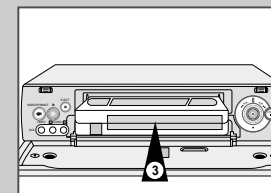
Recording a Programme with Automatic Stop

This function enables you to record up to nine hours of programmes. (DBL)

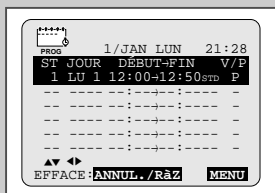
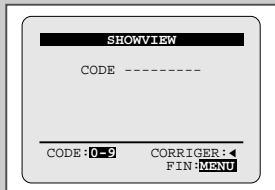
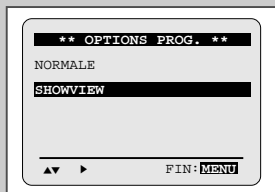
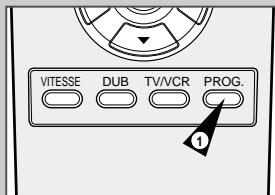
Your VCR stops automatically after the requested length of time.

- 1 Switch on the television.
- 2 To monitor the programme being recorded, select the AV input of the television.
- 3 Insert the cassette on which the programme is to be recorded, with the window visible and the safety tab intact or the opening covered with adhesive tape.
Result: The VCR is switched on automatically.
- 4 Select:
 - ◆ The station to be recorded using the ST./AJUST. (▲ or ▼) buttons
 - or
 - ◆ The AV1, AV2 or AUX source using the ENTRÉE button for a satellite tuner or external video source**Result:** The channel number is displayed and the programme can be seen on the television.
- 5 Select the recording speed (STD/DBL) by pressing the VITESSE button as many times as required (see page 20).
- 6 Hold the ENRG. button down for a while to start recording.
Result: The record indicator appears on the television screen and VCR display. An index is recorded on the tape (see page 33).
- 7 Press the ENRG. button several times to increase the recording time in:
 - ◆ 30-minute intervals up to four hours
 - ◆ 1-hour intervals up to nine hours (DBL)**Result:** The length is displayed on the television displays. The selected programme is recorded for the length of time requested. At the end of that time, the VCR stops recording automatically.
- 8 If you wish to cancel the recording before the end, press M.A./VCR.

- ☞ If the end of the tape is reached while recording:
- ◆ The recording stops
 - ◆ The VCR automatically turns off



Using the ShowView Feature



Before presetting your VCR:

- ◆ Switch on both the television and your VCR
- ◆ Check that the date and time are correct
- ◆ Insert the cassette on which the programme is to be recorded (safety tab intact)

Up to six programmes can be preset.

- 1 Press the PROG. button.
Result: The **OPTIONS PROG.** is displayed.
- 2 Press the corresponding ▲ or ▼ buttons, until the **SHOWVIEW** option is selected.
- 3 Press the ► button to select **SHOWVIEW**.
Result: A message is displayed to allow you to enter the ShowView code.

✎ If all six programmes have been set, the message **TOUS LES PROGRAMMES SONT UTILISÉS.** is displayed. Refer to page 27 if you wish to cancel a preset recording.
- 4 Press the numeric buttons to enter the code opposite the programme that you wish to record in your television magazine.
➤ If you wish to correct the ShowView code that you are entering:
 - ◆ Press the ◀ button until the digit to be corrected is cleared
 - ◆ Enter the correct digit
- 5 Press the MENU button.
Result: The information concerning the programme is displayed.

✎ When using the ShowView function for the first time with stored stations, the programme number flashes. This one time, you must enter the station number manually by pressing the ▲ or ▼ buttons. Refer to the following page if:
 - ◆ The programme number or times flash
 - ◆ You wish to modify the programme
- 6 If the programme and times are correct, press the MENU button.
- 7 Press the M.A./VCR. button to activate the timer. If you wish to turn the timer off any reason simply press the M.A./VCR. button again.
- 8 Refer to page 27 if you wish to:
 - ◆ Check that your VCR has been programmed correctly
 - ◆ Cancel a preset recording

✎ The numbers next to each TV programme listing are ShowView code numbers, which allow you to programme your videorecorder instantly with the remote control. Tap in the ShowView code for the programme you wish to record.

TM ShowView is a trademark of Gemstar Development Corporation. The ShowView system is manufactured under licence from Gemstar Development Corporation.

Modifying ShowView Programming



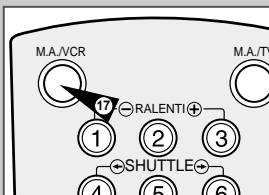
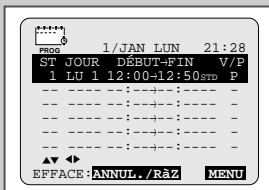
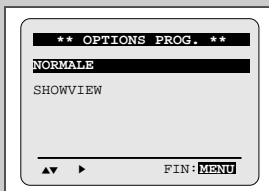
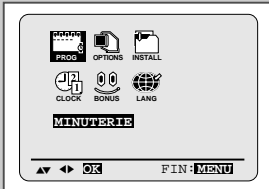
If you wish to correct the programme displayed or modify certain elements, such as the recording speed, you can do so before you press MENU a second time to confirm.

If you wish to...	Then...
Select an input source other than the tuner (AV1, AV2 or AUX)	<ul style="list-style-type: none"> ◆ Press the ◀ or ► buttons, until the ST selection flashes. ◆ Press the ENTRÉE button one or more times to change the input source selection. Result: The programme number is replaced by: <ul style="list-style-type: none"> • A1, A2 or AU for a satellite tuner or external video input (used by another VCR for example) ➤ The input source must be selected before changing any other value.
Record a programme every day (Monday to Sunday) at the same time	<ul style="list-style-type: none"> ◆ Press the ◀ or ► buttons, until the JOUR selection flashes. ◆ Press the ▲ or ▼ buttons, until the JOUR (Daily) value is displayed.
Record a programme every week on the same day and at the same time	<ul style="list-style-type: none"> ◆ Press the ◀ or ► buttons, until the JOUR selection flashes. ◆ Press the ▲ or ▼ buttons, until the S- (Week) value is displayed, followed by the required day. Example: S-SA (Weekly Saturday)
Extend the recording time	<ul style="list-style-type: none"> ◆ Press the ◀ or ► buttons, until the FIN selection flashes. ◆ Press the ▲ or ▼ buttons to increase or decrease the stop time.
Select the recording speed	<ul style="list-style-type: none"> ◆ Press the ◀ or ► buttons, until the recording speed selection flashes. ◆ Press the ▲ or ▼ buttons until the correct indication is displayed: <ul style="list-style-type: none"> • AUTO (Auto Tape Speed Select) : see page 26 • STD (Standard Play) • DBL (Long Play)
Select VPS/PDC recording	<ul style="list-style-type: none"> ◆ Press the ◀ or ► buttons, until the V/P selection flashes. ◆ Press the ▲ or ▼ buttons until the "P" or "-" indication is displayed. ✎ Do not select VPS/PDC unless you are sure the programme you wish to record is broadcast with VPS/PDC. If you do set VPS/PDC ON (by selecting "P" in the right - hand column on the screen), then you must set up the start-time EXACTLY according to the published TV schedule. Otherwise the timer recording won't take place.
Preset a programme title	<ul style="list-style-type: none"> ◆ Press OK during the timer programming procedure or in the timer programming screen. ◆ Press the ▲ or ▼ buttons to select a character. To move to the next or previous character, press the ◀ or ► buttons respectively. ◆ If you wish to store the title, press OK.

Using the TIMER Programming Feature

The **TIMER Programming** feature allows you to preset the VCR to record a programme up to one month before that programme is to be broadcast. Up to six programmes can be preset.

Before presetting a recording, check that the date and time are correct.



- 1 - Insert the cassette. Press the PROG. button. Press the ▲ or ▼ buttons to select the **NORMALE** option and then press the ► button or,
 - ◆ Press MENU on the remote control.
 - Result: The programming menu is displayed.
 - ◆ Press the OK button to select **MINUTERIE** option.
 - Result: The **MINUTERIE** menu is displayed.
- 2 Press ► to select the input source.
- 3 Select the required station by pressing the ▲, ▼ buttons or ENTRÉE to select the AV1, AV2 or AUX input sources.
- 4 Press ► to select the recording day.
- 5 Select the required day by pressing the ▲ or ▼ buttons.
- 6 Press ► to select the recording start time.
- 7 Select the required hour value by pressing the ▲ or ▼ buttons.
- 8 Press ► to select the minutes.
- 9 Select the required minute value by pressing the ▲ or ▼ buttons.
- 10 Press ► to select the recording end time.
- 11 Select the required recording end time by pressing the ▲ or ▼ buttons, following the same procedure as when selecting the recording start time.
- 12 Press ► to select the recording speed (AUTO/STD/DBL).
- 13 Press the ▲ or ▼ buttons to switch between the **AUTO**, **STD** (Standard Play), **DBL** (Long Play) recording speeds.
- 14 Press ► to select the VPS or PDC(V/P) recording mode.
- 15 Press the ▲ or ▼ buttons to toggle between the VPS or PDC mode (marked P) and the non-VPS/PDC mode (marked -).
- 16 When you have finished, press the MENU button.
- 17 Press the M.A./VCR. button to activate the timer.
 - ◆ If you wish to turn the timer off any reason simply press the M.A./VCR. button again.

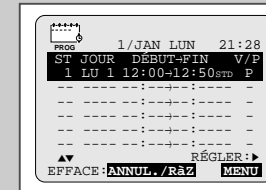
- Preset a programme title
- ◆ Press OK during the timer programming procedure or in the timer programming screen.
 - ◆ Press the ▲ or ▼ buttons to select a character. To move to the next or previous character, press the ◀ or ▶ buttons respectively.
 - ◆ If you wish to store the title, press OK.

Checking a Preset Recording

You can check your preset recordings:

- ◆ When you have finished presetting the VCR
- ◆ If you have forgotten which programmes will be recorded
- ◆ Before the VCR enters the timer standby mode

- 1 - Insert the cassette. Press the PROG. button. Press the ▲ or ▼ buttons to select the **NORMALE** option and then press the ► button or,
 - ◆ Press MENU on the remote control.
 - Result: The programming menu is displayed.
 - ◆ Press the OK button to select **MINUTERIE** option.
 - Result: The **MINUTERIE** menu is displayed.
- 2 Press the ▲ or ▼ buttons to select the required programme.
- 3 Press the ◀ or ▶ buttons to select and change any values as required. For more details, refer to the previous page.
- 4 On completion, press MENU.

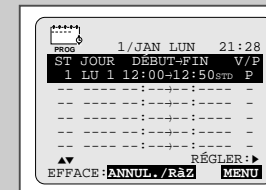


Cancelling a Preset Recording

You can cancel any programmes that are:

- ◆ **Incorrect**
- ◆ **No longer required**

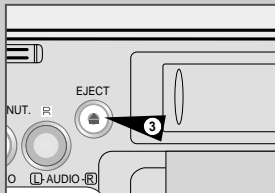
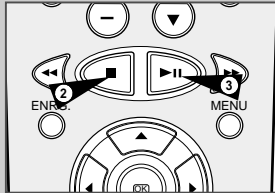
- 1 - Insert the cassette. Press the PROG. button. Press the ▲ or ▼ buttons to select the **NORMALE** option and then press the ► button or,
 - ◆ Press MENU on the remote control.
 - Result: The programming menu is displayed.
 - ◆ Press the OK button to select **MINUTERIE** option.
 - Result: The **MINUTERIE** menu is displayed.
- 2 Select the programme to be cancelled by pressing the ▲ or ▼ buttons.
- 3 Press the ANNUL./RàZ button to cancel the selected programme.
 - Result: All the recording information is deleted and the broadcast will not be recorded.
- 4 On completion, press MENU.



Before starting recording, the VCR compares the timer duration with the remaining time on the cassette.

- Auto Tape Speed Select
- The VCR's "Auto Tape Speed Select" function compares the duration of the timer recording to the actual recording time remaining on the tape loaded. If there is insufficient tape to complete a timer recording in **AUTO** mode, the VCR automatically switches to **LP** mode to record the whole programme.
- E.g. If there is a one hour Timer Recording in **AUTO** mode to be started, and only 40 minutes tape remaining, the VCR will record in **SP** for 20 minutes and switch to complete the remaining 40 minutes in **LP** mode.

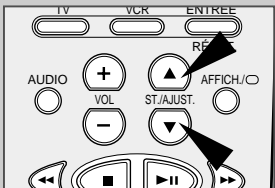
Playing a Cassette



This function allows you to play back any pre-recorded cassette.

- Switch on both the television and your VCR.
- Insert the video cassette to be played. If the safety tab on the cassette is intact, press ►||. Otherwise, the cassette is played automatically.
 - When a cassette is loaded, the tape position is optimized automatically to reduce disturbance (Digital Auto Tracking). When playing a cassette, if the end of the tape is reached, the cassette is rewound automatically. NTSC tapes can be played back but cannot be recorded with this VCR.
- | To... | Then press... |
|--------------------|---------------|
| Stop the playback | ■ (STOP). |
| Eject the cassette | ▲ (EJECT). |

Adjusting Picture Alignment Manually



The Picture Alignment feature allows you to adjust the alignment manually to obtain the best possible picture.

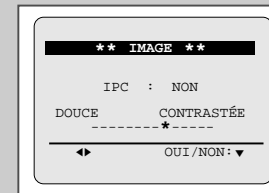
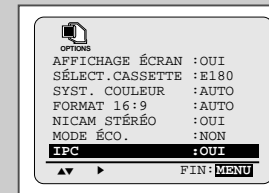
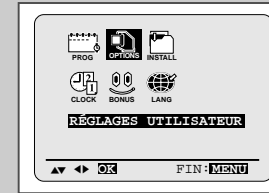
When noise bars or streaks appear during playback, adjust alignment manually by pressing the ST./AJUST. (▲ or ▼) buttons until the picture is clear and stable.

- Result:**
- ◆ The tracking bar appears.
 - ◆ The image is adjusted.
 - ◆ The tracking bar disappears when you release the button.

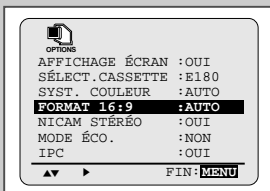
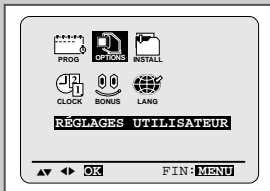
Intelligent Picture Control

The Intelligent Picture Control Feature allows you to adjust the sharpness of the image automatically, according to your own preferences.

- During playback, press the MENU button on the remote control.
Result: The programming menu is displayed.
- Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the **RÉGLAGES UTILISATEUR** option.
- Press the OK button to select this option.
Result: The **RÉGLAGES UTILISATEUR** menu is displayed.
- Press the corresponding ▲ or ▼ buttons, until the **IPC** option is selected.
- Press the ▶ button to select the IPC (intelligent picture control) option.
 - When intelligent picture control mode is **OUI**, the sharpness of the image is adjusted automatically.
- To adjust the sharpness manually, press the ▼ button to turn the IPC mode **NON**.
- Press the ◀ or ▶ buttons until the picture is displayed according to your preferences.
 - If you do not press a button within ten seconds, the **IMAGE** menu disappears automatically.
- On completion, press the MENU button again.



Format 16:9 (Wide Screen)

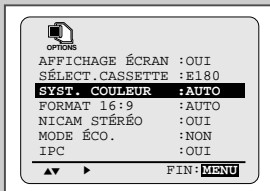


Your VCR can automatically read a 16:9 signal from the AV2 input or a prerecorded 16:9 tape. It can broadcast a 16:9 signal through a 21 pin scart cable.

- Press MENU on the remote control.
Result: The programming menu is displayed.
- Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the **REGLAGES UTILISATEUR** option.
- Press the OK button to select this option.
Result: The **REGLAGES UTILISATEUR** menu is displayed.
- Press the corresponding ▲ or ▼ buttons, until the **FORMAT 16:9** option is selected.
- Press the ▶ button to select **AUTO** → **OUI** → **NON**.

AUTO	Set when you use a wide TV. The VCR detects wide TV programmes and normal TV programmes automatically when playing back and recording.
OUI	The VCR always plays back and records in the mode compatible with 16:9 wide screen. Set if the VCR cannot detect wide TV programmes with "AUTO" set.
NON	Set if you do not use a wide TV.
- On completion, press MENU twice to exit the menu.

Selecting the Colour Mode



Before recording or playing back a cassette, you can select the required system standard.

Otherwise, the system automatically selects the reception standard when you select AUTO.

- When playing back a cassette, the standard is automatically selected by the VCR.
- When you playback an NTSC-recorded tape on this VCR make a setting on the colour system according to your TV. If your TV is a PAL system only TV, set NTPB. If your TV is Multi System TV (NTSC 4.43 compatible), set NT4.43 and you can record NT4.43.

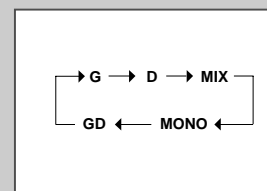
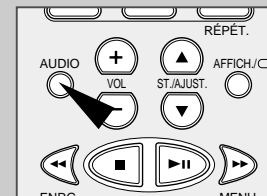
- Press MENU on the remote control.
Result: The programming menu is displayed.
- Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the **REGLAGES UTILISATEUR** option.
- Press the OK button to select this option.
Result: The **REGLAGES UTILISATEUR** menu is displayed.
- Press the corresponding ▲ or ▼ buttons, until the **SYST. COULEUR** option is selected.
- Press the ▶ button to select **AUTO** → **PAL** → **SECAM** → **MESECAM** → **N/B**.

AUTO	When playing back a cassette, the system standard is automatically selected by the VCR.
N/B	Black and White
- On completion, press MENU twice to exit the menu.

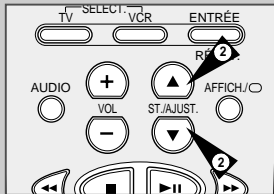
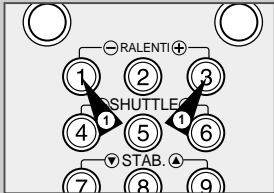
Selecting the Audio Output Mode

When monitoring a TV programme or playing back a Hi-Fi recorded video tape, press the **AUDIO** button to select a desired sound output. As the **AUDIO** button is pressed, the sound output and the indicator change as below:

Sound type	Stereo sound	Bilingual sound	Standard sound broadcast
OSD display			
	Heard in stereo. (left channel and right channel)	Channel I (MAIN) heard from the left speaker, channel II (SUB) heard from the right speaker.	Heard in monaural.
	Left channel heard from both the left and right speakers.	Channel I (MAIN) heard from both the left and the right speakers.	Heard in monaural.
	Right channel heard from both the left and right speakers.	Channel II-(SUB) heard from both the left and the right speakers.	Heard in monaural.
MIX	Sound mixed the left and right channels, and the normal audio track.		
MONO	Heard in monaural.	Channel I (MAIN) heard from both the left and the right speakers.	Heard in monaural.








Playing a Cassette in Slow Motion



You can play a cassette in slow motion.

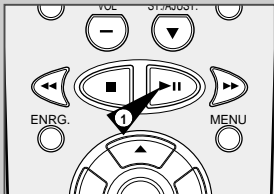
➤ No sound is heard when playing back a cassette in slow motion.

- 1 Press:
 - ◆ ►|| to start playing the cassette
 - ◆ RALENTI () and release the RALENTI () button on the remote control. If you press the RALENTI () button twice, the playback will slow down to 1/12 th of normal speed.
 - ◆ To return to the normal speed, press the ►|| button twice.
- 2 When playing back in slow motion, picture interference may occur. Press the ST./AJUST. ( or ) buttons to minimize this effect.

➤ When you have been using the Slow Motion function for more than about five minutes, the VCR will automatically play to protect the:

- ◆ Cassette
- ◆ Video heads


Playing a Sequence Frame by Frame



You can:

- ◆ *Stop the cassette at a given frame (image)*
- ◆ *Advance one frame at a time*

➤ No sound is heard when playing back frame by frame.

- 1 Press:
 - ◆ ►|| to start playing the cassette
 - ◆ ►|| to stop the tape at a given frame
 - ◆ IM/IM () to advance frame by frame
- 2 To return to normal playback, press ►||.

➤ When you have been using the Frame-by-Frame function for more than about five minutes, the VCR will automatically play to protect the cassette and video heads.

Picture Search, Fast Forward/Rewind

Picture Search enables you to Fast Forward or Rewind and look for a particular part of a tape.

- 1 Press PLAY, the VCR will enter normal play mode. While in play, press and release the ►► (or ◀◀) button. The VCR will search at 5 times the normal playback speed.
- 2 To return to normal playback mode, press the ►|| button.
- 3 If you press and HOLD down the ►► (or ◀◀) button the VCR will search at 9 times the normal speed. Releasing the ►► button will return the VCR to search at 5 times the normal speed. To return to normal playback mode, press the ►|| button.
- 4 Whilst in Picture Search mode, if you press the ►► button again, the VCR will enter normal Fast Forward mode.
- 5 Likewise, whilst in Picture Search ◀◀ mode, if you press the ◀◀ button again, the VCR will enter normal Rewind mode.
- 6 If, when Redwing (◀◀) or Fast Forwarding (►►), you press the ◀◀ (or ►►) button, the VCR will enter the Picture Search mode.

Searching for a Specific Sequence

Each time you record a cassette on this VCR, an "index" is automatically marked on the tape when recording starts.

The Search function allows you to fast-forward or rewind to a specific index and start playback from that point. Depending on the direction selected, the indexes are numbered as follows:

	Prev Seq.	Seq. being played	Next Seq.	
etc.	2	1	1	2

- This VCR uses a standard indexing system (VISS). As a result, it will recognize any indexes marked by other VCRs using the same system and vice versa.

INTRO SCAN

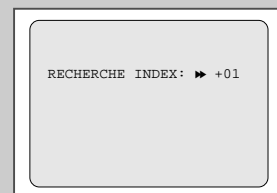
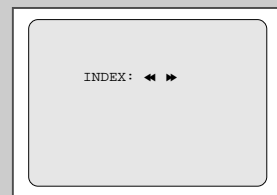
- 1 To search for a specific index, press INDEX.
- 2 Press the ◀◀ or ►► buttons depending on the direction where your desired programme is located.
- 3 When an Index mark is found the VCR will playback the tape for 5 seconds, after which it will continue searching for the next Index mark.
- 4 If you want to watch the tape from a particular Index, simply press ►||.

Index Skip Search:

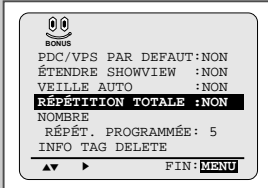
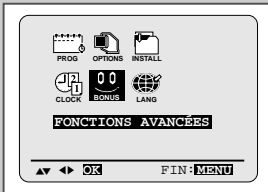
This feature will enable you to fast forward/rewind to a specific point on a tape: E.g. if you have recorded 3 different programmes on a tape and you have rewound the tape to the beginning, by using this feature you can go directly to the start of programme 2 simply by pressing the INDEX button.

- 1 Press the INDEX to start the Index search.
- 2 Press the ◀◀ or ►► buttons twice more. This will take you directly to the start of the desired programme is located.
- 3 These Index searches can be made forwards: (press ►►) or backwards: (press ◀◀).
- 4 To cancel an Index search simply press the ►|| or ■ button.

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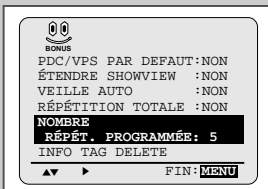
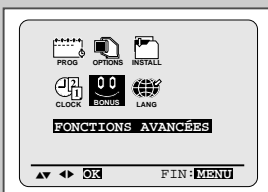
Auto Repeat Play



You can set repeat play to repeat the tape continuously from beginning to end.

- 1 Press MENU on the remote control.
Result: The programming menu is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the **FONCTIONS AVANCÉES** option.
- 3 Press the OK button to select this option.
Result: The **FONCTIONS AVANCÉES** menu is displayed.
- 4 Press the corresponding ▲ or ▼ buttons, until the **RÉPÉTITION TOTALE** option is selected.
- 5 To... Press ◀ or ▶, until...
Repeat play OUI is displayed.
Do not wish to repeat play NON is displayed.
- 6 On completion, press MENU twice to exit the menu.

Interval Repeat Play



You can set interval repeat play to repeat the cassette several times for special interval.

- 1 Press MENU on the remote control.
Result: The programming menu is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the **FONCTIONS AVANCÉES** option.
- 3 Press the OK button to select this option.
Result: The **FONCTIONS AVANCÉES** menu is displayed.
- 4 Press the corresponding ▲ or ▼ buttons, until the **NOMBRE RÉPÉT. PROGRAMMÉE** option is selected.
- 5 To... Press ▶, until...
Interval repeat play 5, 10, 15 is displayed.
(choose repeat time 5 times, 10 times, 15 times)
Cancel interval repeat play OUI is displayed.
- 6 On completion, press MENU twice to exit the menu.
- 7 To select interval during playback, press the ENTRÉE/RÉPÉT. button at the desired start point.
Result: "RÉGL. RÉPÉT. PROGRAMMÉE" is displayed.
Press the ENTRÉE/RÉPÉT. button one more time at the desired end point.
Result: The tape is automatically rewound to the start point.
"RÉPÉTITION PROGRAMMÉE" is displayed.

Info Tag (Information Tag) Function

If you record multiple programmes on a tape, you can use the Info Tag function to see what has been recorded on your tape.

You can see programme list of programmes recorded on a tape.

You can also start playback directly from the selected programme using the INFO TAG LIST screen.

The data of the tape inserted into the VCR is automatically stored in memory.

If you want to recall the data of pre-recorded tape, press OK to select INFO TAG LIST screen.

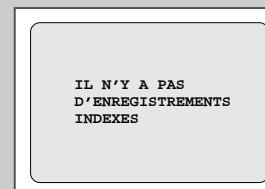
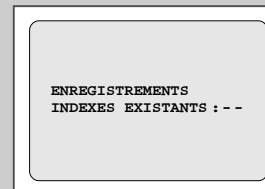
Each time you timer record a cassette on this VCR, an "index of tape number" is automatically marked on the tape during the recording.

When a pre-recorded cassette is loaded, the VCR will search to find a tape number automatically for a few second.

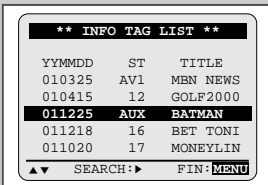
Remarks : You can store information for up to 50 programmes on a tape.

Searching the Info Tag data.

- 1 When a cassette have a safety tab is loaded, the VCR will search to find a INFO TAG automatically for a few second.
If the safety tab on the cassette is not intact, the cassette is played automatically.
- 2 The process will finish after a few seconds. Then the VCR automatically display the results of searching data.
Screen "ENREGISTREMENTS INDEXES EXISTANTS : - -" will be displayed if INFO TAG DATA found.
- 3 Screen "IL N'Y A PAS D'ENREGISTREMENTS INDEXES" will be displayed if no INFO TAG DATA found.



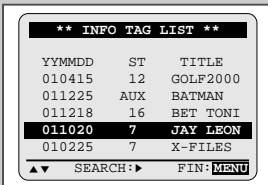
Searching using the Info Tag (Information Tag) Function



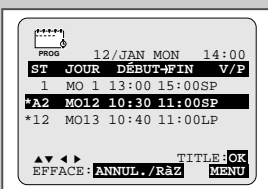
You can store *Info Tag*, such as the recording date and programme position, for up to 50 programmes.

You can select a programme and start playback, by recalling the *Info Tag* directly from the *Info Tag* screen.

- 1 If you want to recall the data of pre-recorded tape, press OK to select **INFO TAG LIST** screen. You can display the data of the programme list.
- 2 Press the ▲ or ▼ buttons to select the required programme.
- 3 Press ► to search required programme.
The VCR will start searching, and playback starts automatically from the beginning of the selected programme.



Presetting the title



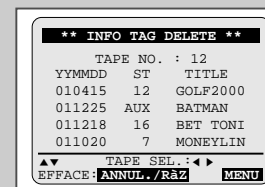
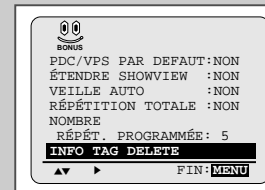
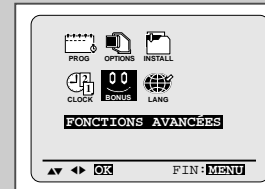
- 1 The title presetting feature allows you to store the title.
To preset the programme's name or theme, press OK during the timer programming procedure or in the timer programming screen. The title inserting screen will be displayed.
- 2 The first letter of the theme will be flashes.
To select a character, press the ▲ or ▼ buttons until the required character is displayed.
- 3 To move to the next or previous character, press the ◀ or ▶ buttons respectively.
- 4 If you wish to store the title, press OK.
If you do not wish to store the title, press ANNUL./RàZ.



Deleting the Info Tag

You can delete the programme information stored in VCR.

- 1 Press MENU press the corresponding ▲, ▼ or ◀, ▶ buttons to select the **FONCTIONS AVANCÉES** option.
- 2 Press the ▲ or ▼ buttons to select **INFO TAG DELETE** option and then press the ▶ button.
- 3 Select the tape number to be cancelled by pressing the ◀ or ▶ buttons.
- 4 Press the ANNUL./RàZ button to delete the **INFO TAG** data of selected cassette.



VPS/PDC Default

Programme VPS/PDC is a system of telling the VCR when a programme actually starts. Typically, when you want to record a programme you will tell the VCR to start recording, probably, five minutes before the advertised starting time of the programme and to finish ten minutes or so after the programme is due to finish. So even if the programme starts early or finishes late you will normally still get to see what you wanted to record. However when live programmes over-run or the day's television schedule is changed from that advertised, you may miss the desired programme which may have been delayed or even cancelled. With VPS/PDC the VCR will wait until the signal is sent to confirm the programme is starting and the VCR will record the programme even if it is two or more, hours late.

- 1 Press the MENU button on the remote control.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the **FONCTIONS AVANCÉES** option.
- 3 Press the OK button to select this option.
Result: The **FONCTIONS AVANCÉES** menu is displayed.
- 4 Press the corresponding ▲ or ▼ buttons, until the **PDC/VPS PAR DEFAULT** option is selected.
- 5 Press ▶ button to select OUI in **PDC/VPS PAR DEFAULT** option.
- 6 On completion, press MENU twice to exit the menu.

ShowView EXTEND

To prevent delays or over-runs the VCR has a function called ShowView EXTEND allowing you to extend the recording time by up to 60 minutes.

➤ Only use if PDC is not available or set to OFF.

- 1 Press the MENU button on the remote control.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the **FONCTIONS AVANCÉES** option.
- 3 Press the OK button to select this option.
Result: The **FONCTIONS AVANCÉES** menu is displayed.
- 4 Press the corresponding ▲ or ▼ buttons, until the **ÉTENDRE SHOWVIEW** option is selected.
- 5 Press ◀ or ▶ buttons to set the ShowView EXTEND time by increments of 10 minutes.
- 6 To turn off, press ◀ or ▶ buttons repeatedly until **NON** shows.

Using the Tape Counter

The tape counter:

- ◆ Indicates the elapsed time in the play and record modes (hours, minutes and seconds)
- ◆ Is reset when a cassette is inserted in the VCR
- ◆ Allows you to find the beginning of a sequence easily

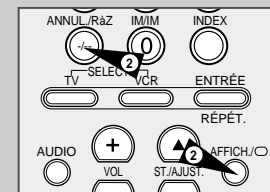
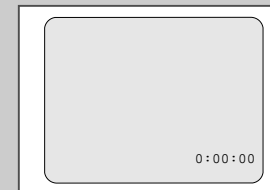
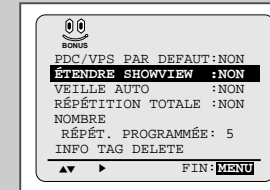
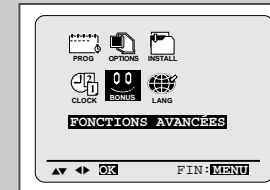
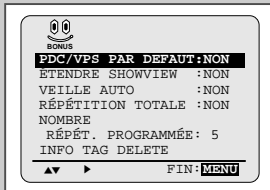
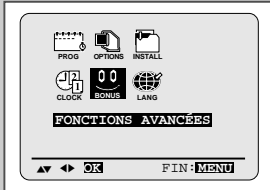
➤ If the remaining time is to be calculated correctly, you must indicate the type of cassette being used.

- 1 Insert a cassette in your VCR.
- 2 To set the tape counter to zero at the beginning of a sequence:
 - ◆ Press AFFICH./○ twice to display the counter
 - ◆ Press ANNUL./R&Z when you want to set the tape counter to zero
- 3 When you are ready,
 - ◆ Start playback or Recording.
 - ◆ Press the ■ button.
 - ◆ To fast-forward or rewind to the sequence at which the counter was set to zero, press ◀◀ or ▶▶.

➤ Some VCR information, such as the counter, can be displayed on the television screen (unless you have deactivated the OSD mode; refer to page 14).

Press AFFICH./○:

- ◆ Once to display the current function, programme number, recording speed, date, time and counter
- ◆ Twice to display the counter only
- ◆ Three times to display the time remaining on the cassette
- ◆ Four times to clear the display



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AV-Link Function of this VCR

If your TV has "Easy Link / nexTVViewLink / AV-Link" function, the VCR can automatically store stations memorized in the TV in the same channel position as those of the TV.

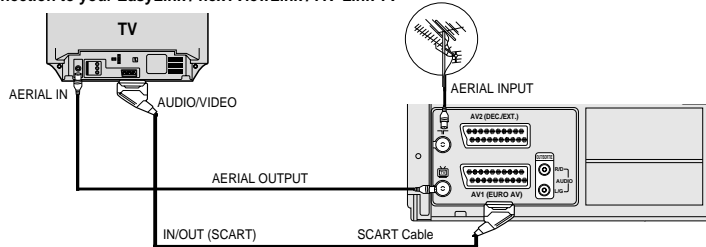
Using a SCART cable (21 pins), a mutual control is available with the TV, VCR, SAT receiver, etc.

- The VCR automatically stores all your current TV stations in the VCR in the same position order as the TV channels. ("TV CH DOWNLOAD")
- Even if the TV is in standby mode, the TV automatically turns on and displays the video picture when you start playback on the VCR.
- The VCR automatically selects the same picture as you are watching on the TV, and record it. ("TV PICTURE")
- The VCR takes in the data and turns to timer standby mode, after a program data reserved is transferred to the VCR by a TV using such as an EPG (Electronic Program Guide). In this case, the TV's and the VCR's channel position must be set to the same TV station. The position could be stored from 1 to 80. Also the VCR's clock must be set.

Connection

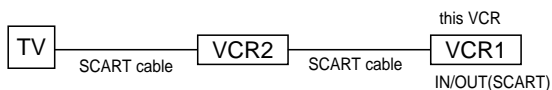
Connect your EasyLink / nexTVViewLink / AV-Link TV to the AV1 (EURO AV) socket on the rear of the VCR using the SCART cable. Refer to your TV's manual additionally.

- Connection to your EasyLink / nexTVViewLink / AV-Link TV

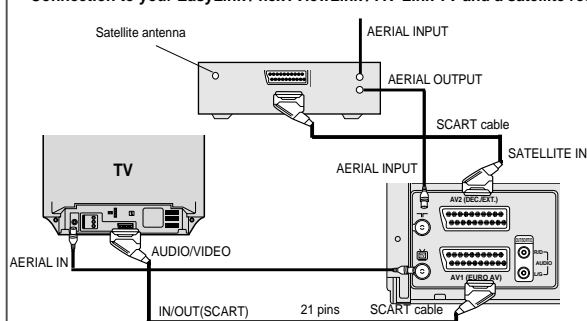


When connecting another VCR supporting EasyLink / nexTVViewLink / AV-Link functions

The "AV-Link" system can connect 2 VCRs (VCR1 and VCR2) at the same time. This VCR is adjusted to "VCR1", so it should be connected to VCR2.



- Connection to your EasyLink / nexTVViewLink / AV-Link TV and a satellite receiver



TV programme Download

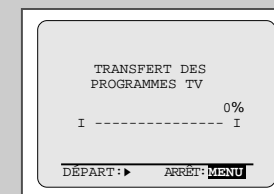
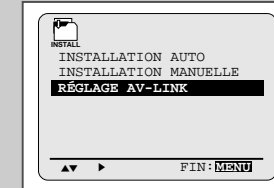
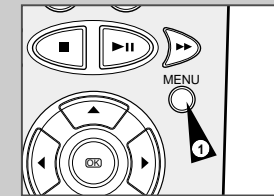
Preparation:

- ◆ Turn on the TV.
- ◆ Select the video channel or the video input mode on the TV.

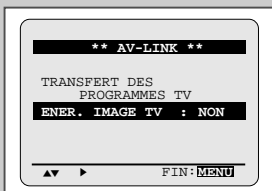
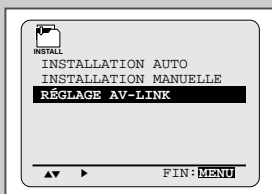
- 1 Press the MENU on the remote control.
Result: The programming menu is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the **INSTALLATION** option.
And then press the OK button to select this option.
Result: The **INSTALLATION** menu is displayed.
- 3 Press the ▲ or ▼ buttons to select **RÉGLAGE AV-LINK** option.
And then press the ▶ button to select this option.
Result: The **AV-LINK** menu is displayed.
- 4 Press the ▲ or ▼ buttons, until the **TRANSFERT DES PROGRAMMES TV** option is selected.
And then press the ▶ button to select this option.
- 5 Press the ▶ button to start **TRANSFERT DES PROGRAMMES TV** function.
- 6 When the downloading finished, then "**TRANSFERT DES PROGRAMMES TV EST TERMINE**" is displayed.
- 7 Press the MENU button to exit.



- ◆ The available position numbers on the VCR are 1 to 80.
- ◆ When the TV's channel position is readjusted, the VCR automatically makes "Transfert des programmes TV".



TV Picture Record Setting

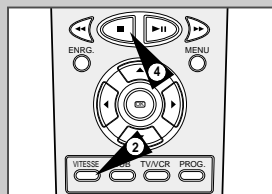


Preparation : turn on the TV.

- 1 Press the MENU on the remote control.
Result: The programming menu is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the **INSTALLATION** option. And then press the OK button to select this option.
Result: The **INSTALLATION** menu is displayed.
- 3 Press the ▲ or ▼ buttons to select **RÉGLAGE AV-LINK** option. And then press the ▶ button to select this option.
Result: The **AV-LINK** menu is displayed.
- 4 Press the ▲ or ▼ buttons, until the **ENREGISTREMENT DIRECT** option is selected.
To... Press ◀ or ▶ until...
Record the same picture as you are watching on the TV when you press ENRG. button on the your VCR remote control. **OUI** is displayed.
Record the selected picture on your VCR when you press ENRG. button on your VCR remote control. **NON** is displayed.
- 6 Press the MENU button twice to exit.

➤ If this option is in ON mode, you press the ENRG. button on the your TV remote control, your VCR records the same picture as you are watching on the TV.

Direct Record Procedure

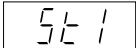
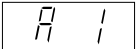
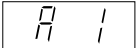
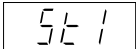


- 1 Load a cassette with the safety tab attached.
- 2 Press the VITESSE button to select the recording tape speed.
- 3 Press two ENRG. buttons to start recording.
Result: The VCR automatically selects the same picture as you are watching on the TV and starts recording. Depending on the picture sources, the recording switches the method. See next page.
- 4 To stop a recording, press ■ once.

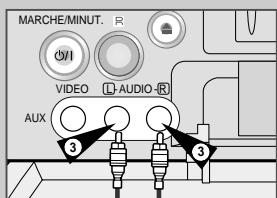
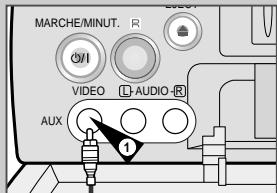
➤ ◆ This recording is not available on the timer programme recordings.

Pictures and TV Picture Recording

GB

Picture	The VCR records:	During recording, if you change the channel or the input mode on the TV, the recording will be:
Channel selected on the TV If you performed "TV CH DOWNLOAD" (TV stations stored on the VCR and the TV in the same position order).	VCR channel of the same number as the TV channel	Ex. TV channel 1  Continued.
If you did not perform "TV CH DOWNLOAD" (TV stations not stored on the VCR and the TV in the same position order).	AV1 (output of the TV)	 Stopped.
Pictures of external equipment connected to the TV	AV1 (output of the TV)	 Stopped.
Channel selected on the VCR	VCR channel	Ex. VCR channel 1  Continued.

Connecting an RCA Audio/Video Input Cable



You can connect other audio/video equipment to your VCR using audio/video cables if the appropriate outputs are available on the equipment chosen.

Examples: ♦ You wish to copy a video cassette with the help of a second VCR (see page 45).

♦ You wish to play back and/or copy pictures taken with a camcorder (see page 45).




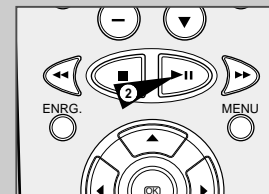
♦ Make sure that both the television and the VCR are switched off before connecting the cables.

- 1 Connect one end of the RCA audio/video cable into the VIDEO socket on the front of the VCR.
- 2 Plug the other end of the audio/video cable into the appropriate output connector on the other system (VCR or camcorder).
- 3 Connect one end of the RCA audio cable into the AUDIO sockets on the front of the VCR.
 - Take care to respect the colour coding of the left and right channels.
- 4 Plug the other end of the audio cable into the appropriate output connectors on the other system (VCR, camcorder or Hi-Fi sound system).

Using the Assemble Edit Function

This function allows you to start a new recording at a specific position on the cassette while maintaining a very smooth scene change.

- 1 Insert the cassette to be edited in your VCR.
- 2 Press the ►|| button to start playback.
- 3 When you reach the position from which you wish to start the new recording, press the ►|| button.
- 4 Press the IM/IM () button as often as necessary to advance frame by frame, until the exact recording position is located.
- 5 While the VCR is in still mode, press the ENRG. button to activate the Assemble Edit function.
- 6 Select the source from which you wish to record by pressing:
 - ♦ The ST./AJUST. (▲ or ▼) buttons for television channels
 - ♦ The ENTRÉE button for the AV1, AV2 or AUX input sources
- 7 Press the ►|| button to start recording.
- 8 When you have finished recording, press ■.



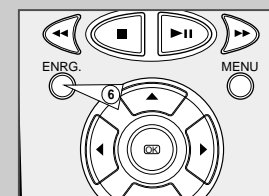
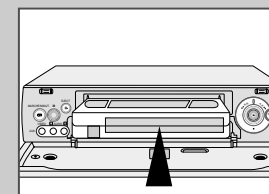
Recording from Another VCR or Camcorder

You can copy a cassette to your VCR from another video source, such as another VCR or a camcorder.

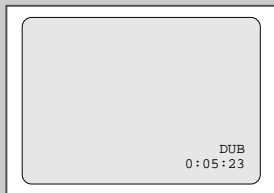
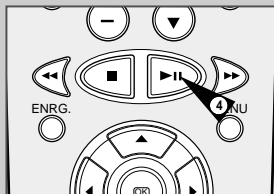
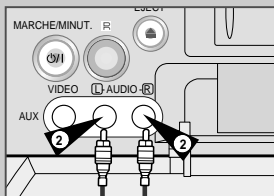
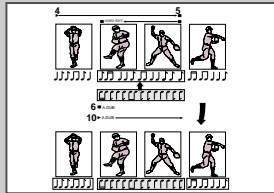


It is an infringement of copyright laws to copy prerecorded cassettes or to re-record them in any form without the permission of the owners of the corresponding copyright.

- 1 Connect the VCR, from which the cassette is to be copied, to the appropriate SCART audio and video input connectors on the rear of your VCR.
You can also use a RCA audio and video cable to connect the AUX input on the front of your VCR.
- 2 Insert a blank cassette in your VCR.
- 3 Insert the pre-recorded cassette in the other video source (VCR or camcorder).
- 4 Press the ENTRÉE button to select the appropriate input on your VCR:
 - ♦ AV1 or AV2 for the SCART input
 - ♦ AUX for the RCA input
- 5 Start playing back the cassette to be copied.
- 6 Press the ENRG. button to start recording on your VCR.
- 7 When you have finished recording, press ■ on both VCRs.



Audio Dubbing a Pre-recorded Cassette



With the Audio Dubbing function, you erase the previously recorded sound and replace it with a new soundtrack from:

- ◆ A CD player
- ◆ A microphone connected to a sound system
- ◆ A cassette player

Restriction:

Audio dubbing is applicable only to the longitudinal audio track (normal audio).

- 1 Connect an RCA audio cable to the appropriate output on your sound system (CD/cassette player for example).
- 2 Connect the other end of the RCA audio cable to the audio input connectors (G, D) on the front of your VCR.
- 3 Insert the pre-recorded cassette on which the audio track is to be replaced, and press the ►|| to start playback.
- 4 Find the scene that you want to over-dub and press ►|| on the remote control.
- 5 Press DUB.
Result: Your VCR is now in the Audio dubbing Pause mode.
- 6 On the sound system, locate the point on the CD or cassette at which you wish to start playback.
Example: The track that you wish to record on the cassette.
- 7 When you are ready:
 - ◆ Start playback on the sound system
 - ◆ Press ENRG. on the remote control.
 Result: The soundtrack is replaced on the pre-recorded cassette.

- The new sound will be recorded on the normal sound track of the tape, and the original sound will remain on the Hi-Fi sound track.
To hear the new sound and original sound mixed together, press the Audio button on the remote control until the MIX option is displayed (see page 31).

Using the TV Buttons on the Remote Control

Your VCR remote control will work with Samsung televisions and compatible brands.

To determine whether your television is compatible, follow the instructions below.

- 1 Switch your television on.
- 2 Point the remote control towards the television.
- 3 Hold down the TV button and enter the two-figure code corresponding to the brand of your television, by pressing the appropriate numeric buttons.

Brand	Codes	Brand	Codes
SAMSUNG	01 to 06	PHILIPS	02, 20, 22
AKAI	09, 23	SABA	13, 14, 22 to 24
GRUNDIG	09, 17, 21	SONY	15, 16
LOEWE	02	THOMSON	13, 14, 24
PANASONIC	08, 23 to 27	TOSHIBA	07, 16 to 19, 21

Result: If your television is compatible with the remote control, it is switched off. It is now programmed to operate with the remote control.

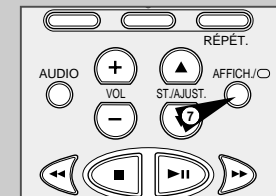
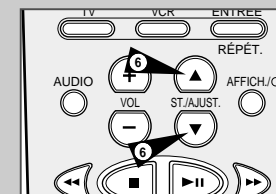
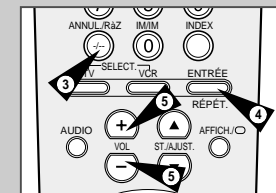
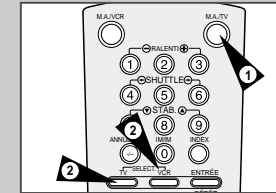
- If several codes are indicated for your television brand, try each one in turn until you find one that works.

✎ When you change the batteries in the remote control, you must reprogramme the code, following the same procedure.

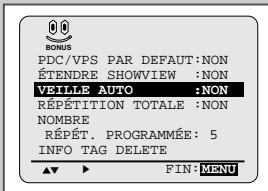
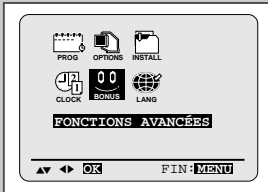
You can then control the television using the following buttons.

Button	Function
M.A/TV ①	Used to switch the television on and off.
TV or VCR ②	Used to switch between the TV and VCR modes. Only the VOL (+ or -) and M.A/TV buttons are operational in VCR mode.
-/-- ③	Used to enter a two-figure programme number. Example: For programme 12, press -/-- followed by numeric buttons 1 and 2.
ENTRÉE ④	Used to select an external source.
VOL + or - ⑤	Used to adjust the volume of the television.
ST./AJUST. (▲ or ▼) ⑥	Used to select the required programme.
AFFICH./□ ⑦	Used to switch between an external source and the television tuner.

- The various functions will not necessarily work on all televisions. If you encounter problems, operate the television directly.



Auto Power Off

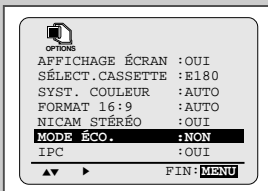


The Auto Power Off feature automatically turns off your VCR if no signal is received and you do not press any button for the selected time.

- 1 Press MENU on the remote control.
Result: The programming menu is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the **FONCTIONS AVANCÉES** option.
- 3 Press the OK button to select this option.
Result: The **FONCTIONS AVANCÉES** menu is displayed.
- 4 Press the corresponding ▲ or ▼ buttons, until the **VEILLE AUTO** option is selected.
- 5 Press the ▶ button, until you select the time of Auto Power off interval.

NON	→	2HEURES	→	3HEURES
-----	---	---------	---	---------
- 6 On completion, press MENU twice to exit the menu.

ECO Mode-Reducing Standby power consumption



Low Power Mode reduces the Standby power consumption of the VCR when in Standby mode.
Useful, for example, when you are away from the house on holiday.
It saves actually turning the VCR off.

- 1 Press MENU on the remote control.
Result: The programming menu is displayed.
- 2 Press the corresponding ▲, ▼ or ◀, ▶ buttons to select the **RÉGLAGES UTILISATEUR** option.
- 3 Press the OK button to select this option.
Result: The **RÉGLAGES UTILISATEUR** menu is displayed.
- 4 Press the corresponding ▲ or ▼ buttons, until the **MODE ÉCO.** is selected.
- 5 Press the ▶ button to turn LOW(3Watts) mode on. Now, when the VCR is standby mode the front display panel will shut off. Even the clock disappears. By pressing the M.A./VCR button again the display panel will reappear.
- 6 On completion, press MENU twice to exit the menu.

Technical Specifications

Design and specifications are subject to change without notice.

Format Heads	VHS PAL/SECAM standard Video: 4 rotary heads Hi-Fi audio: 2 rotary heads Audio/Control: 1 stationary head Erase: 1 full track erase head
Receiving channel Television system Luminance Colour system	VHF-I, VHF-III, UHF, Interband/Hyperband STANDARD L, B/G -A2/NICAM FM azimuth recording PAL/SECAM/MESECAM/NT4.43 NTSC PB on PAL TV
Tape speed	SP 23.39 mm/sec LP 11.69 mm/sec
Recording/playback time	SP 3 hours (E-180 Tape) LP 6 hours (E-180 Tape)
REW time	About 60 sec in REW with E-180
VIDEO	
Input	0.5 to 2.0 Vp-p; 75 ohm unbalanced
Output	1.0 ± 0.2 Vp-p; 75 ohm unbalanced
Signal-to-noise ratio	Better than 43 dB (SP)
Horizontal resolution	More than 240 lines
AUDIO	
Input	-8 dBm, 47 Kohm unbalanced
Output	-8 ± 3 dBm, 1 Kohm unbalanced
Wow and flutter (WTD)	0.4% max (SP)
Signal-to-noise ratio	68 dB min (IHF A filter)
Frequency response	20Hz - 20kHz
Power requirement	230V (AC 50-60 Hz)
Power consumption	Approx. 17 watts
Operation temperature	41°F-104°F (5°C-40°C)
Operation humidity	10%-75%
Weight	2.8 Kg (net)
Dimensions (WxHxD)	360 x 94 x 240 mm

Problems and Solutions

Before contacting the after-sales service, perform the following simple checks.

Problem	Explanation/Solution
No power	<ul style="list-style-type: none"> Check that the power plug is connected to a wall outlet. Have you pressed the M.A./VCR. button?
You cannot insert a video cassette	<ul style="list-style-type: none"> A video cassette can only be inserted with the window side up and the safety tab facing you.
The television programme was not recorded	<ul style="list-style-type: none"> Check the VCR aerial connections. Is the VCR tuner properly set? Check if the safety tab is intact on the cassette.
Timer recording was unsuccessful	<ul style="list-style-type: none"> Was the M.A./VCR. button pressed to activate the timer? Re-check the recording start/stop time settings. If there was a power failure or interruption during timer recording, the recording will have been cancelled.
No playback picture or the picture is distorted	<ul style="list-style-type: none"> Check to see if you are using a prerecorded tape.
You cannot see normal broadcasts	<ul style="list-style-type: none"> Check the TUNER/EXTERNAL setting. It should be on TUNER. Check the TV/VCR aerial connections.
Noise bars or streaks on playback	<ul style="list-style-type: none"> Press the ST./AJUST. (▲ or ▼) buttons to minimize this effect.
When the ► button is pressed during playback, the still picture has severe "noise bars" streaks	<ul style="list-style-type: none"> A still picture may have "noise bars", depending on the condition of the tape. Press the ST./AJUST. (▲ or ▼) buttons during SLOW motion to minimize this effect.
Video Head Cleaning	<ul style="list-style-type: none"> If poor pictures appear on a variety of cassettes, the video heads may need cleaning. This is not a common problem and unless it appears, the heads should not be cleaned. When cleaning the video heads, read all instructions provided with the head cleaning cassette. Incorrect head cleaning can permanently damage the video heads.

If you are unable to solve the problem after reading the above instructions, note:

- ◆ The model and serial number on the rear of your VCR
- ◆ The warranty information
- ◆ A clear description of the problem

TV Frequency Table (System-L'/L)

001-004 :L' 120-142 :CATV
 005-010 :L-VHF 170-199 :CATV
 021-069 :L-UHF 201-221 :CATV
 070-085 :CATV
 101-118 :CATV

DISP	CH	Band	Fp	STD	DISP	CH	Band	Fp	STD	DISP	CH	Band	Fp	STD
001	FA	V-L	47.75	L'	070	B	V-L	116.75	CATV	172	72	V-L	141.75	CATV
002	FB	V-L	55.75	L'	071	C	V-L	128.75	CATV	173	73	V-H	152.25	CATV
003	FC1	V-L	60.50	L'	072	D	V-L	140.75	CATV	174	74	V-H	162.75	CATV
004	FC	V-L	63.75	L'	073	E	V-H	152.75	CATV	175	75	V-H	173.25	CATV
005	F1	V-H	176.00	L	074	F	V-H	164.75	CATV	176	76	V-H	183.75	CATV
006	F2	V-H	184.00	L	075	G	V-H	176.75	CATV	177	77	V-H	194.25	CATV
007	F3	V-H	192.00	L	076	H	V-H	188.75	CATV	178	78	V-H	204.75	CATV
008	F4	V-H	200.00	L	077	I	V-H	200.75	CATV	179	79	V-H	215.25	CATV
009	F5	V-H	208.00	L	078	J	V-H	212.75	CATV	180	80	V-H	225.75	CATV
010	F6	V-H	216.00	L	079	K	V-H	224.75	CATV	181	81	V-H	236.25	CATV
021	E21	UHF	471.25	CCIR	080	L	V-H	236.75	CATV	182	82	V-H	246.75	CATV
022	E22	UHF	479.25	CCIR	081	M	V-H	248.75	CATV	183	83	V-H	257.25	CATV
023	E23	UHF	487.25	CCIR	082	N	V-H	260.75	CATV	184	84	V-H	267.75	CATV
024	E24	UHF	495.25	CCIR	083	O	V-H	272.75	CATV	185	85	V-H	278.25	CATV
025	E25	UHF	503.25	CCIR	084	P	V-H	284.75	CATV	186	86	V-H	288.75	CATV
026	E26	UHF	511.25	CCIR	085	Q	V-H	296.75	CATV	187	87	V-H	299.25	CATV
027	E27	UHF	519.25	CCIR	101	01	V-H	307.25	CATV	188	88	V-H	309.75	CATV
028	E28	UHF	527.25	CCIR	102	02	V-H	315.25	CATV	189	89	V-H	320.25	CATV
029	E29	UHF	535.25	CCIR	103	03	V-H	323.25	CATV	190	90	V-H	330.75	CATV
030	E30	UHF	543.25	CCIR	104	04	V-H	331.25	CATV	191	91	V-H	341.25	CATV
031	E31	UHF	551.25	CCIR	105	05	V-H	339.25	CATV	192	92	V-H	351.75	CATV
032	E32	UHF	559.25	CCIR	106	06	V-H	347.25	CATV	193	93	V-H	362.25	CATV
033	E33	UHF	567.25	CCIR	107	07	V-H	355.25	CATV	194	94	V-H	372.75	CATV
034	E34	UHF	575.25	CCIR	108	08	V-H	363.25	CATV	195	95	V-H	383.25	CATV
035	E35	UHF	583.25	CCIR	109	09	V-H	371.25	CATV	196	96	V-H	393.75	CATV
036	E36	UHF	591.25	CCIR	110	10	V-H	379.25	CATV	197	97	V-H	404.25	CATV
037	E37	UHF	599.25	CCIR	111	11	V-H	387.25	CATV	198	98	V-H	414.75	CATV
038	E38	UHF	607.25	CCIR	112	12	V-H	395.25	CATV	199	99	V-H	425.25	CATV
039	E39	UHF	615.25	CCIR	113	13	V-H	403.25	CATV	201	H1	V-H	303.25	CATV
040	E40	UHF	623.25	CCIR	114	14	V-H	411.25	CATV	202	H2	V-H	311.25	CATV
041	E41	UHF	631.25	CCIR	115	15	V-H	419.25	CATV	203	H3	V-H	319.25	CATV
042	E42	UHF	639.25	CCIR	116	16	UHF	427.25	CATV	204	H4	V-H	327.25	CATV
043	E43	UHF	647.25	CCIR	117	17	UHF	435.25	CATV	205	H5	V-H	335.25	CATV
044	E44	UHF	655.25	CCIR	118	18	UHF	443.25	CATV	206	H6	V-H	343.25	CATV
045	E45	UHF	663.25	CCIR	120	70	V-L	120.25	CATV	207	H7	V-H	351.25	CATV
046	E46	UHF	671.25	CCIR	121	71	V-L	128.25	CATV	208	H8	V-H	359.25	CATV
047	E47	UHF	679.25	CCIR	122	72	V-L	136.25	CATV	209	H9	V-H	367.25	CATV
048	E48	UHF	687.25	CCIR	123	73	V-L	144.25	CATV	210	H10	V-H	375.25	CATV
049	E49	UHF	695.25	CCIR	124	74	V-H	152.25	CATV	211	H11	V-H	383.25	CATV
050	E50	UHF	703.25	CCIR	125	75	V-H	160.25	CATV	212	H12	V-H	391.25	CATV
051	E51	UHF	711.25	CCIR	126	76	V-H	168.25	CATV	213	H13	V-H	399.25	CATV
052	E52	UHF	719.25	CCIR	127	77	V-H	176.25	CATV	214	H14	V-H	407.25	CATV
053	E53	UHF	727.25	CCIR	128	78	V-H	184.25	CATV	215	H15	V-H	415.25	CATV
054	E54	UHF	735.25	CCIR	129	79	V-H	192.25	CATV	216	H16	V-H	423.25	CATV
055	E55	UHF	743.25	CCIR	130	80	V-H	200.25	CATV	217	H17	UHF	431.25	CATV
056	E56	UHF	751.25	CCIR	131	81	V-H	208.25	CATV	218	H18	UHF	439.25	CATV
057	E57	UHF	759.25	CCIR	132	82	V-H	216.25	CATV	219	H19	UHF	447.25	CATV
058	E58	UHF	767.25	CCIR	133	83	V-H	224.25	CATV	220	H20	UHF	455.25	CATV
059	E59	UHF	775.25	CCIR	134	84	V-H	232.25	CATV	221	H21	UHF	463.25	CATV
060	E60	UHF	783.25	CCIR	135	85	V-H	240.25	CATV					
061	E61	UHF	791.25	CCIR	136	86	V-H	248.25	CATV					
062	E62	UHF	799.25	CCIR	137	87	V-H	256.25	CATV					
063	E63	UHF	807.25	CCIR	138	88	V-H	264.25	CATV					
064	E64	UHF	815.25	CCIR	139	89	V-H	272.25	CATV					
065	E65	UHF	823.25	CCIR	140	90	V-H	280.25	CATV					
066	E66	UHF	831.25	CCIR	141	91	V-H	288.25	CATV					
067	E67	UHF	839.25	CCIR	142	92	V-H	296.25	CATV					
068	E68	UHF	847.25	CCIR	170	70	V-L	120.75	CATV					
069	E69	UHF	855.25	CCIR	171	71	V-L	131.25	CATV					

TV Frequency Table (System-B/G, I, D/K)

002-012 :CCIR STD VHF 244-250 :MOROCCO
 013-020 :ITALY 251-255 :BELGUIM
 021-069 :CCIR STD UHF
 071-075 :CCIR CABLE
 201-241 :CCIR STD CABLE

Germany	Netherlands	Belguim	Morocco
Spain	Denmark	Greece	Yugoslavia
Italy	Finland	Portugal	
Austria	Norway	Slovenia	
Switzerlands	Sweden	Croatia	

DISP	CH	Band	Fp	STD	DISP	CH	Band	Fp	STD	DISP	CH	Band	Fp	STD
002	E02	V-L	48.25	CCIR	060	E60	UHF	783.25	CCIR	151	01	V-L	43.25	Angola
003	E03	V-L	55.25	CCIR	061	E61	UHF	791.25	CCIR	152	02	V-L	52.25	Angola
004	E04	V-L	62.25	CCIR	062	E62	UHF	799.25	CCIR	153	03	V-L	60.25	Angola
005	E05	V-H	175.25	CCIR	063	E63	UHF	807.25	CCIR	154	04	V-H	175.25	S/Afri
006	E06	V-H	182.25	CCIR	064	E64	UHF	815.25	CCIR	155	05	V-H	183.25	S/Afri
007	E07	V-H	189.25	CCIR	065	E65	UHF	823.25	CCIR	156	06	V-H	191.25	S/Afri
008	E08	V-H	196.25	CCIR	066	E66	UHF	831.25	CCIR	157	07	V-H	199.25	S/Afri
009	E09	V-H	203.25	CCIR	067	E67	UHF	839.25	CCIR	158	08	V-H	207.25	S/Afri
010	E10	V-H	210.25	CCIR	068	E68	UHF	847.25	CCIR	159	09	V-H	215.25	S/Afri
011	E11	V-H	217.25	CCIR	069	E69	UHF	855.25	CCIR	160	10	V-H	223.25	S/Afri
012	E12	V-H	224.25	CCIR	071	X	V-L	69.25	CCIR	161	11	V-H	231.25	S/Afri
013	A	V-L	53.75	Italy	072	Y	V-L	76.25	CCIR	162	13	V-H	247.45	S/Afri
014	B	V-L	62.25	Italy	073	Z	V-L	83.25	CCIR	201	R1	V-L	49.75	OIRT
015	C	V-L	82.25	Italy	074	Z+1	V-L	90.25	CCIR	202	R2	V-L	59.25	OIRT
016	D	V-H	175.25	Italy	075	Z+2	V-L	97.25	CCIR	203	R3	V-L	77.25	OIRT
017	E	V-H	183.25	Italy	101	S01	V-L	105.25	CCIR	204	R4	V-L	85.25	OIRT
018	F	V-H	192.25	Italy	102	S02	V-L	112.25	CCIR	205	R5	V-L	93.25	OIRT
019	G	V-H	201.25	Italy	103	S03	V-L	119.25	CCIR	206	R6	V-H	175.25	OIRT
020	H	V-H	210.25	Italy	104	S04	V-L	126.25	CCIR	207	R7	V-H	183.25	OIRT
021	E21	UHF	471.25	CCIR	105	S05	V-L	133.25	CCIR	208	R8	V-H	191.25	OIRT
022	E22	UHF	479.25	CCIR	106	S06	V-L	140.25	CCIR	209	R9	V-H	199.25	OIRT
023	E23	UHF	487.25	CCIR	107	S07	V-H	147.25	CCIR	210	R10	V-H	207.25	OIRT
024	E24	UHF	495.25	CCIR	108	S08	V-H	154.25	CCIR	211	R11	V-H	215.25	OIRT
025	E25	UHF	503.25	CCIR	109	S09	V-H	161.25	CCIR	212	R12	V-H	223.25	OIRT
026	E26	UHF	511.25	CCIR	110	S10	V-H	168.25	CCIR	244	M4	V-H	163.25	Morocco
027	E27	UHF	519.25	CCIR	111	S11	V-H	231.25	CCIR	245	M5	V-H	171.25	Morocco
028	E28	UHF	527.25	CCIR	112	S12	V-H	238.25	CCIR	246	M6	V-H	179.25	Morocco
029	E29	UHF	535.25	CCIR	113	S13	V-H	245.25	CCIR	247	M7	V-H	187.25	Morocco
030	E30	UHF	543.25	CCIR	114	S14	V-H	252.25	CCIR	248	M8	V-H	195.25	Morocco
031	E31	UHF	551.25	CCIR	115	S15	V-H	259.25	CCIR	249	M9	V-H	203.25	Morocco
032	E32	UHF	559.25	CCIR	116	S16	V-H	266.25	CCIR	250	M10	V-H	211.25	Morocco
033	E33	UHF	567.25	CCIR	117	S17	V-H	273.25	CCIR	251	U1	V-H	226.25	Belguim
034	E34	UHF	575.25	CCIR	118	S18	V-H	280.25	CCIR	252	U2	V-H	234.25	Belguim
035	E35	UHF	583.25	CCIR	119	S19	V-H	287.25	CCIR	253	U3	V-H	242.25	Belguim
036	E36	UHF	591.25	CCIR	120	S20	V-H	294.25	CCIR	254	U4	V-H	250.25	Belguim
037	E37	UHF	599.25	CCIR	121	S21	V-H	303.25	CCIR	255	U5	V-H	258.25	Belguim
038	E38	UHF	607.25	CCIR	122	S22	V-H	311.25	CCIR					
039	E39	UHF	615.25	CCIR	123	S23	V-H	319.25	CCIR					
040	E40	UHF	623.25	CCIR	124	S24	V-H	327.25	CCIR					
041	E41	UHF	631.25	CCIR	125	S25	V-H	335.25	CCIR					
042	E42	UHF	639.25	CCIR	126	S26	V-H	343.25	CCIR					
043	E43	UHF	647.25	CCIR	127	S27	V-H	351.25	CCIR					
044	E44	UHF	655.25	CCIR	128	S28	V-H	359.25	CCIR					
045	E45	UHF	663.25	CCIR	129	S29	V-H	367.25	CCIR					
046	E46	UHF	671.25	CCIR	130	S30	V-H	375.25	CCIR					
047	E47	UHF	679.25	CCIR	131	S31	V-H	383.25	CCIR					
048	E48	UHF	687.25	CCIR	132	S32	V-H	391.25	CCIR					
049	E49	UHF	695.25	CCIR	133	S33	V-H	399.25	CCIR					
050	E50	UHF	703.25	CCIR	134	S34	V-H	407.25	CCIR					
051	E51	UHF	711.25	CCIR	135	S35	V-H	415.25	CCIR					
052	E52	UHF	719.25	CCIR	136	S36	V-H	423.25	CCIR					
053	E53	UHF	727.25	CCIR	137	S37	UHF	431.25	CCIR					
054	E54	UHF	735.25	CCIR	138	S38	UHF	439.25	CCIR					
055	E55	UHF	743.25	CCIR	139	S39	UHF	447.25	CCIR					
056	E56	UHF	751.25	CCIR	140	S40	UHF	455.25	CCIR					
057	E57	UHF	759.25	CCIR	141	S41	UHF	463.25	CCIR					
058	E58	UHF	767.25	CCIR	142	1A	V-L	42.25	Indoesia					
059	E59	UHF	775.25	CCIR	143	01	V-L	45.25	Nez					

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