



VR540/58

Thank you for buying a Philips video recorder. This video recorder is one of the most sophisticated and easy-to-use video recorders (VCR) on the market. Please take the time to read this operating manual before using your video recorder. It contains important information and notes regarding operation. The video recorder should **not be turned on immediately after transportation** from a cold to a hot area or vice versa, or in conditions of extreme humidity. Wait at least **three hours** after transporting the device. The video recorder needs this time in order to become acclimatised to its new environment (temperature, air humidity, etc.).














PAL

This video recorder is used for the recording and playback of VHS videocassettes. Cassettes with the VHS-C label (VHS cassettes for camcorders) may only be used with a suitable adapter.

We hope you enjoy your new video recorder.

Important notes regarding operation

-  **Danger: High voltage!**
Do not remove the top cover as there is a risk of an electrical shock!
-  The video recorder does not contain any components that can be repaired by the customer. Please leave all maintenance work for qualified personnel.
-  As soon as the video recorder is connected to the power supply, there are some components that are in constant operation. To switch off the video recorder completely you must disconnect it from the power supply.
-  Make sure that air can circulate freely through the ventilation slots on the video recorder. Do not place the device on an unsteady base.
-  Make sure that no objects or liquids enter the video recorder. Do not place vases or the like on the video recorder. If liquid is spilt into it, immediately disconnect the video recorder from the power supply and call After-sales Service for advice.
-  Do not place any combustible objects on the device (candles, etc.).
-  Make sure that children do not place any foreign objects within the openings or ventilation slots.

-  These operating instructions have been printed on non-polluting paper.
-  Deposit old batteries at the appropriate collection points.
-  Please make use of the facilities available in your country for disposing of the packaging of the video recorder in a way that helps to protect the environment.
-  This electronic device contains many materials that can be recycled. Please enquire about the possibilities for recycling your old device.

So that you can identify your machine for service questions or in the event of theft, enter the serial number here. The serial number (PROD.NO.) is printed on the type plate fixed at the back of the device.

| | |
|------------------|-----------------|
| MODELNO. | VR540/58 |
| PROD. NO. | |

This product complies with the requirements of Directive 73/23/EEC +89/336/EEC +93/68 EEC.

Specifications

Voltage: 220-240V/50Hz

Power consumption : 20W

Power consumption (Standby): less than 3W (PWR. in the display switched off)

Rewind time: approx. 70 seconds (cassette E-180)

Dimensions in cm (WxDxH): 36.0x22.6x9.2

Number of video heads : 4

Number of video heads (HIFI): 2

Recording/playback time:

3 hours (SP) (cassette E-180)

6 hours (LP) (cassette E-180)

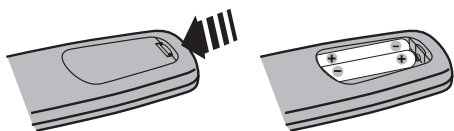
Supplied accessories

- Operating instructions
- Remote control and batteries
- Aerial Cable

1. Connecting the video recorder

Preparing the remote control for operation

The remote control and its batteries are packed separately in the original video recorder packaging. You must install the batteries in the remote control before use.



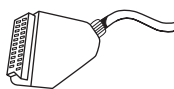
1. Take the remote control and the enclosed batteries (2 batteries).
2. Open the remote control's battery compartment and place the batteries in it as shown in the picture and close the battery compartment.

The remote control is now ready to use. Its range is approximately 5 metres.

Connecting your video recorder to the TV set

The necessary cable connections must be made before you can record or playback TV programmes using your video recorder.

We recommend that you use a scart cable to connect your TV and video recorder.



What is a scart cable?

The scart or Euro AV cable serves as the universal connector for picture, sound and control signals. With this type of connection, there is practically no loss of quality during the picture or sound transfer.

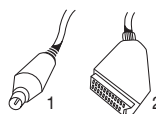
*You can have the Hi-fi sound on the TV only with a scart cable.

Connecting with a scart cable

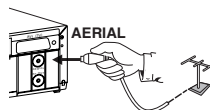
Have the following

cables ready:

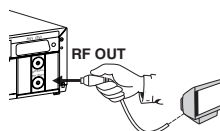
an aerial cable (1, supplied), a scart cable (2, not supplied).



1. Remove the aerial cable plug from your TV set. Insert it into the AERIAL at the back of the video recorder.



2. Insert one end of the supplied aerial cable into the RF OUT at the back of the video recorder and the other end into the aerial input socket at the back of the TV set.



3. Plug one end of a scart cable into the scart socket AV1(TV) at the back of the video recorder and the other end into the suitable scart socket on your TV reserved for the video recorder operation (see your TV's operating instructions).



4. Switch on the TV.

5. Insert AC cable into the wall socket.

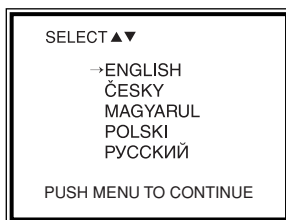
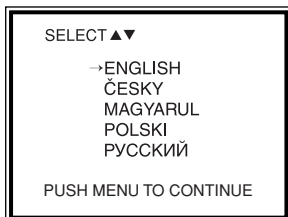
My TV has several scart sockets. Which one should I use?

Select that scart socket which is suited for the video output as well as for the video input.

My TV has a configuration menu for the scart socket.

Please configure this scart socket as Input-Output.

6. If the connection was properly made and your TV was automatically switched to the programme number for the scart socket, you will see the following picture:



Then, read the paragraph 'Preparation for use' in the chapter 'Installing your video recorder'.

My screen is empty

Many TVs are switched to the programme number for the scart socket by way of a control signal sent through the scart cable. If the TV does not automatically switch to the scart socket programme number, manually change to the corresponding programme number on your TV (see your TV's operating instructions).

I do not see a Language setting picture

- * Check the cable connections.
- * Repeat the channel search on your TV.

7. Save this programme number setting on your TV for video recorder operation.

You can find more details in chapter 'Preparation for use'.

Programme number for video recorder operation

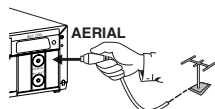
You have now saved a programme number for use by your video recorder as you would a regular TV channel. This programme number must now be used in future for video recorder playback ('video recorder' TV channel).

Connecting without a scart cable

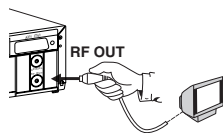
Have the following cables ready:



1. Switch off your TV.
2. Remove the aerial cable plug from the aerial input socket of the TV. Insert it into the AERIAL at the back of the video recorder.



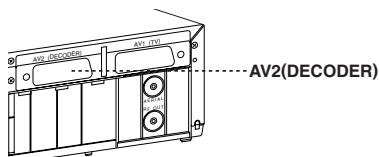
3. Insert one end of the supplied aerial cable into the RF OUT at the back of the video recorder and the other end into the aerial input socket at the back of the TV.



4. Insert AC cable into the wall socket.
5. Switch on your TV and select the programme number used for video playback on your TV set (see your TV's operating instructions).
6. Select this programme number and manually start the TV's channel search as if you wanted to save a new TV channel until the next screen appears.

Connecting additional devices

You can connect additional devices such as decoders, satellite receivers, camcorders, etc. to the socket AV2(DECODER).



2. Installing your video recorder

Preparation for use

This chapter shows you how to prepare the video recorder for use. The video recorder automatically seeks out and stores all available TV channels.

'Aim' correctly

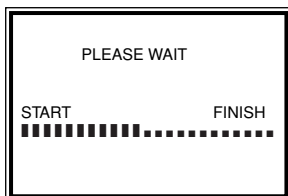
In the following sections, you require the remote control for the first time. When using, always aim the front of the remote control at the video recorder and not at the TV.

Connecting additional devices

After you have connected additional devices (satellite receiver, etc.) through the aerial cable, switch them on. The automatic channel search will recognise them and save them.

1. Select the desired language for the on-screen menu by pressing **[PLAY ▶▶▶]** or **[STOP ■▼]**.
2. Press **[MENU]**.
3. Confirm with **[PROG P+]**.

The automatic TV channel search starts.



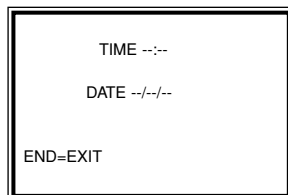
The video recorder does not find any TV channels during the search

* Select channel 1 on the TV. Can you see the saved TV channel on the TV?

If not, check the cable connection of the aerial (aerial socket), video recorder, TV.

* The video recorder searches the entire frequency range in order to find and save the largest possible number of TV channels. It is possible that the TV channels in your country are broadcast in a higher frequency range. As soon as this range is reached during the search, the video recorder will find the TV channels.

4. 'TIME' and 'DATE' will appear on the TV screen.



5. Check 'TIME'. If required, please change the time with the number buttons **[0..9]**.
6. Check if the displayed settings for 'DAY', 'MONTH' and 'YEAR' are correct.
7. When all information is correct, save by pressing **[STATUS/EXIT]**.

The preparation for use is now complete.

Satellite receiver

If you are connecting a satellite receiver, please read the section 'Using the satellite receiver'.

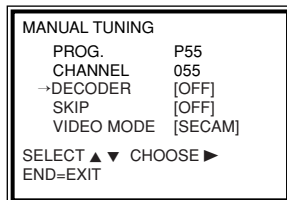
Decoder

If you are connecting a decoder, you must install it as described in the next section.

Decoder allocation

Some TV channels transmit encoded TV signals which can only be viewed with a purchased or rented decoder. You can connect such a decoder to this video recorder. The following function will automatically activate the connected decoder for the desired TV channel.

1. Switch the TV on. If applicable, select the programme number for the video recorder operation.
2. Use **[PLAY ▶▶▶]**, **[STOP ■▼]** or **[0..9]** to select the TV channel which you would like to allocate the decoder to.
3. Press **[MENU]**. The main menu will appear.
4. Use **[PLAY ▶▶▶]** or **[STOP ■▼]** to select 'TUNER SET UP'. Then press **[FWD ▶▶▶▶]**.
5. Use **[PLAY ▶▶▶]** or **[STOP ■▼]** to select 'MANUAL TUNING'. Then press **[FWD ▶▶▶▶]**.
6. Use **[PLAY ▶▶▶]** or **[STOP ■▼]** to select 'DECODER'.



7. Use **[FWD ▶▶▶▶]** to select 'ON' (Decoder switched on).
8. To end, press **[STATUS/EXIT]**.

How can I switch off the decoder?

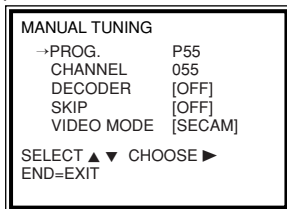
Use **[FWD ▶▶▶▶]** to select 'OFF' (Decoder switched off).

The decoder has now been allocated to this TV channel.

Manual TV channel search

In some cases it can occur that all of the TV channels are not found and saved during the first installation. In this case, the missing or coded TV channels must be searched for and stored manually.

1. Switch on the TV set. If required, select the programme number for the video recorder.
2. Press **[MENU]**.
The main menu will appear.
3. Use **[PLAY ▶▶▶]** or **[STOP ■▼]** to select 'TUNER SET UP'. Then press **[FWD ▶▶▶▶▶]**.
4. Use **[PLAY ▶▶▶]** or **[STOP ■▼]** to select 'MANUAL TUNING'. Then press **[FWD ▶▶▶▶▶]**.
5. Select 'PROG.' with **[PLAY ▶▶▶]** or **[STOP ■▼]**.
Then press **[FWD ▶▶▶▶▶]**.



6. With **[PLAY ▶▶▶]** or **[STOP ■▼]** or **[0.9]**, select the desired programme number that you want to use for the TV channel, e.g. 'P01'. Then press **[FWD ▶▶▶▶▶]**.

What is a special channel?

TV channels are transmitted in certain pre-defined frequency ranges. These ranges are divided into channels.

A specific frequency/channel is assigned to each TV station.

Certain frequency ranges are specified as special channels (hyperband channels).

7. Select 'CHANNEL' with **[PLAY ▶▶▶]** or **[STOP ■▼]**,
and confirm with **[FWD ▶▶▶▶▶]**. Then enter the desired channel with **[0.9]**.

If you set 'SKIP' on for a channel, this channel will be ignored when going through the channels with **[PROG P+]** or **[PROG P-]**.

I don't know the channels for my TV stations

In this case, press **[PLAY ▶▶▶]** or **[STOP ■▼]** in 'CHANNEL' to start the automatic channel search. A changing channel number will appear on the TV screen. Continue the automatic search until you have found the desired TV channel.

8. Save the TV channel with **[FWD ▶▶▶▶▶]**.
9. To search for other TV channels, begin again at step 5.
10. To end, press **[STATUS/EXIT]**.

How do I change 'VIDEO MODE'?

If you want to change the video mode, select 'VIDEO MODE' with **[PLAY ▶▶▶]** or **[STOP ■▼]**. Then, press **[FWD ▶▶▶▶▶]** to select your desired mode.

Using the satellite receiver

Satellite channels from a satellite receiver (connected to the scart socket AV2(DECODER)) are received on the video recorder on programme number 'AV2' with 0.0.2.

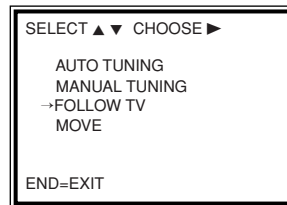
You should select the satellite channels to be received by the satellite receiver directly on the receiver itself.

Follow TV (Automatic TV channels sorting)

When the automatic channel search function is activated, the TV channels are saved in a specific order. This may vary from the order of TV channels on the TV.

This function changes the order of TV channels saved in the video recorder to match that of the TV. Make sure that the video recorder and the TV are connected by a scart cable.

1. Switch on the TV. If required, select the programme number for the video recorder.
2. Press **[MENU]**. The main menu will appear.
3. Select 'TUNER SET UP' with **[PLAY ▶▶▶]**
[STOP ■▼] and confirm with **[FWD ▶▶▶▶▶]**.
4. Select 'FOLLOW TV' with **[PLAY ▶▶▶]** or **[STOP ■▼]**
and confirm with **[FWD ▶▶▶▶▶]**.



5. 'P:01' will appear in the video recorder display.
6. Select programme number '1' on the TV.

I cannot switch my TV set to programme number '1'

* If you have connected additional devices to socket AV2(DECODER), please disconnect these devices. Because of other connected devices, the TV set could switch to the programme number of the scart socket.

7. Confirm with **[FWD ▶>-▶]** on the video recorder remote control. The video recorder compares the TV channels on the TV and the video recorder.

If the video recorder finds the same TV channel as on the TV, then it stores it at 'P01'.

'NO TV SIGNAL' will appear in the TV screen. The video recorder is not receiving a video signal from the TV.

Check the plug on the scart cable.

Check your TV's operating instructions to see which scart socket is used for video signals.

If this does not help, it's not possible to use this function. Please read the section 'Sorting TV channels manually'.

8. Wait until the next number, e.g. 'P:02' appears in the display.

9. Select the next programme number on the TV, e.g. '2'.

10. Confirm with **[FWD ▶>-▶]**.

11. Repeat steps 8 to 10 until you have assigned a programme number to all TV channels.

12. To end, press **[STATUS/EXIT]**.

Automatic Tuning

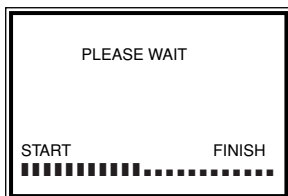
During installation, all available TV channels are searched for and saved. If the channel assignments of your cable or satellite TV provider change or if you are re-installing the video recorder, e.g. after moving house, you can start this procedure again. This will replace the TV channels already saved with the new ones.

1. Switch on the TV. If required, select the programme number for the video recorder.

2. Press **[MENU]**. The main menu will appear.

3. Select 'TUNER SET UP' with **[PLAY ▶>-▶]** or **[STOP ■-▼]** and confirm with **[FWD ▶>-▶]**.

4. Select 'AUTO TUNING' with **[PLAY ▶>-▶]** or **[STOP ■-▼]** and confirm with **[FWD ▶>-▶]**.



5. The automatic TV channel search starts. This allows the video recorder to save all available TV channels. This procedure may take several minutes.

6. When the TV channel search is complete, 'COMPLETED' will briefly appear on the TV screen.

Sorting and clearing TV channels manually

After you have performed the automatic channel search you may not agree with the sequence in which the individual TV channels have been allocated to the programme positions (programme numbers) of the video recorder. You can use this function to individually sort the TV channels already saved or to delete unwanted TV channels or those with poor reception.

1. Switch on the TV set. If required, select the programme number for the video recorder.

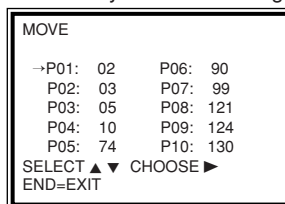
2. Press **[MENU]**. The main menu will appear.

3. Select 'TUNER SET UP' with **[PLAY ▶>-▶]**

[STOP ■-▼] and confirm with **[FWD ▶>-▶]**.

4. Select 'MOVE' with **[PLAY ▶>-▶]** or **[STOP ■-▼]**, and confirm with **[FWD ▶>-▶]**.

5. With **[PLAY ▶>-▶]** or **[STOP ■-▼]**, select the saved TV channel that you want to change.



6. Confirm with **[FWD ▶>-▶]**.

7. Move the selected channel with **[PLAY ▶>-▶]** or **[STOP ■-▼]** to the programme number you want to assign.

8. Confirm with **[FWD ▶>-▶]**.

9. To assign other TV channels to a programme number, repeat steps 5 to 8.

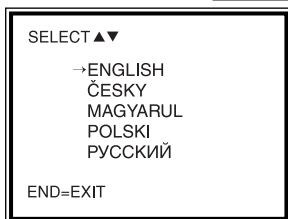
10. Confirm the assignment of the TV channel with MOVE menu.

11. To exit the MOVE menu, press **[STATUS/EXIT]**.

Setting the language

You have the option of setting one of the displayed languages for the on-screen menu (OSD).

1. Switch on the TV. If required, select the programme number for the video recorder.
2. Press **[MENU]**. The main menu will appear.
3. Select 'INITIAL SET UP' with **[PLAY ▶-▲]** or **[STOP ■-▼]** and confirm with **[FWD ▶>-▶]**.
4. Select 'LANGUAGE' with **[PLAY ▶-▲]** or **[STOP ■-▼]** and confirm with **[FWD ▶>-▶]**.

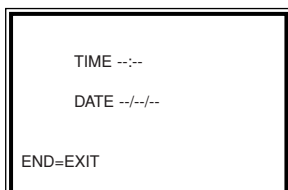


5. Select the desired language with **[PLAY ▶-▲]** or **[STOP ■-▼]**.
6. To end, press **[STATUS/EXIT]**.

Setting the clock

If the display shows an incorrect time or '---:--', the time and date must be reset manually.

1. Switch on the TV. If required, select the programme number for the video recorder.
2. Press **[MENU]**. The main menu will appear.
3. Select 'INITIAL SET UP' with **[PLAY ▶-▲]** or **[STOP ■-▼]** and confirm with **[FWD ▶>-▶]**.
4. Select 'CLOCK' with **[PLAY ▶-▲]** or **[STOP ■-▼]** and confirm with **[FWD ▶>-▶]**.



5. Check the time in 'TIME'. If required, please change the time with **[0..9]**.
6. Check 'DAY', 'MONTH' and 'YEAR' in the same way.
7. To end, press **[STATUS/EXIT]**.

Setting the RF out channel

In some reception locations it is possible that a TV channel will be sent on the same or similar frequency as the video recorder.

Result: As soon as the video recorder is switched on, the reception quality for this or several other TV channels will decrease.

The following steps will show you how to change the pre-set 'transmission' (RF out channel) frequency on the video recorder.

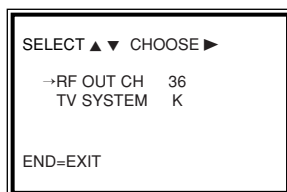
What is RF out channel?

This electronic component in the video recorder allows the device to transmit audio and video signals via the aerial cable. These signals can be received on a TV set just like TV channels.

What is RF out channel frequency?

This frequency or channel indicates the channel on which the audio or video signal is transmitted.

1. Switch on the TV. If required, select the programme number for the video recorder.
2. Press **[MENU]**. The main menu will appear.
3. Select 'INITIAL SET UP' with **[PLAY ▶-▲]** or **[STOP ■-▼]** and confirm with **[FWD ▶>-▶]**.
4. Select 'RF OUT' with **[PLAY ▶-▲]** or **[STOP ■-▼]** and confirm with **[FWD ▶>-▶]**.



5. Press **[FWD ▶>-▶]**.
6. Press **[PLAY ▶-▲]**, **[STOP ■-▼]** or **[0..9]** to select a free (not allocated) channel between channel 22 and 69 in your area.
7. Press **[FWD ▶>-▶]**.

If you cannot get an interference-free picture and sound, switch the built-in modulator off.

Press **[STOP ■-▼]** repeatedly until "--" appears next to "RF OUT CH" on the TV screen.

Then confirm with **[FWD ▶>-▶]**. In that case, please connect your VCR to your TV with a Scart cable.

8. Select 'TV system' with **[PLAY ▶-▲]** or **[STOP ■-▼]**.
9. Choose 'K' or 'G' with **[FWD ▶>-▶]**.
10. To end, press **[STATUS/EXIT]**.

3. Playback

Playing cassettes

You can operate the video recorder using the remote control or the buttons on the front of the video recorder.

If you press **[PLAY]**, **[STOP]**, **[FWD]** or **[REW]** while the set is in Stand-by, the power will be automatically set in Stand-by. Additionally, if a cassette was already inserted, the corresponding operation will be performed.

Your video recorder can only record and play standard VHS cassettes.

1. Put a cassette into the cassette slot. The cassette is inserted automatically. '00' will appear on the display.
2. Press **[PLAY ▶▶]** to view the tape.

DIGITAL STUDIO PICTURE CONTROL

Philips has developed a system which produces the best possible playback quality. For old and often-used video cassettes, this system reduces interference. For new or high quality cassettes, it emphasises the details.

Picture/ sound quality is poor

When playing rental videos or older, poorer quality cassettes, it may not be possible to completely filter out picture and sound interference. This is not a fault in your machine. Read the section 'Manual tracking'.

3. To stop the playback, press **[STOP ■▼]** or **[STOP/EJECT]** on the video recorder.
4. To eject the cassette, press **[STOP/EJECT]** when the video recorder stops the playback.

Automatic switch-off of special functions

Many functions (e.g. pause, still picture) switch themselves off automatically after a short time in order to protect the cassette and to save energy.

Do I need to change the playback speed when playing back LP recordings?

During playback, the correct speed will automatically be selected. For more information, please read the section 'Selecting the recording speed (SP or LP)' in the chapter 'Manual recording'.

Playing back NTSC cassettes

This video recorder can also play back cassettes that have been recorded in SP [Standard Play] or SLP [Super Long Play] mode in the NTSC standard (for example, American cassettes). However, this only works on PAL-television sets that are suitable for a picture frequency of 60Hz.

Displaying current tape position

The following information is displayed on the screen: e.g.: 0:02:45 shows the counter in hours, minutes and seconds.

SP/LP: will show the recorded speed of your cassette

'REM 0:06': will show the actual amount of playing/recording time left on the tape in hours and minutes.

When you play an NTSC cassette, the video recorder will show 'REM -:-'.

How can I set the counter to '0:00:00'?

You can set the counter to '0:00:00' with **[CLEAR]**.

When you put a cassette in the video recorder, the counter will automatically reset to '0:00:00'.

The counter does not move

This occurs when there are no recordings on a portion of a tape. This is not a fault in your video recorder.

The screen shows '-0:01:20'

If you rewind a cassette from the tape position '0:00:00', the counter will show for instance, '-0:01:20' (the cassette was rewound to 1 minute and 20 seconds before '0:00:00').

'-:-' is displayed in the 'REM' counter

This counter will automatically recognise the length of the tape. In addition, when you put in a cassette the video recorder must first calculate the time played. Therefore, '-:-' appears first and only after the tape has been running for a few seconds, the correct playing time will be shown.

Searching for a tape position with picture (scanning)

1. While a cassette is playing, press **[REW ◀◀]** (reverse) or **[FWD ▶▶]** (forward) one or more times.
2. Press **[PLAY ▶▶]** to resume playback.

Still picture / slow motion

1. During playback, press **[STILL ▶◀]** to stop the tape and display a still picture.
2. During playback, press **[SLOW]** to play the tape in slow motion.
3. Press **[PLAY ▶▶]** to resume playback.

Scanning and still/slow motion interferes with the picture quality. The sound is switched off. This is not a fault in your video recorder.

Searching for tape position without picture (forward wind and rewind)

1. Stop the tape with **[STOP ■-▼]**.
2. Press **[REW ◀◀-◀]** (reverse) or **[FWD ▶▶-▶]** (forward).
3. To stop the tape, press **[STOP ■-▼]**.

Index search

Every time a tape is recorded an index marking is written on the tape.

These marked positions can be found again quickly and easily later.

1. To search for the previous marking, press **[INDEX ▶]** and then **[REW ◀◀-◀]**.

4. Manual recording

General information

Use '**Manual Recording**' to make a spontaneous recording (for example, a programme currently being shown).

If you want to start and stop a recording manually, read the section '**Recording without automatic switch-off**'.

If you want to start a recording manually but have it stopped automatically, read the section

'**Recording with automatic switch-off**'. (e.g. not to record to the end of the tape)

Read the section '**Direct record**' if you want to record a programme currently being shown.

Read the section '**Automatic recording from a satellite receiver**', if you want a recording to be controlled automatically by a satellite receiver.

Recording without automatic switch-off

1. Insert a cassette.
2. Use **[PROG P+]** **[PROG P-]** to select the programme number you want to record, for example, 'P01'.
3. To start recording, press **[REC ●]**.
4. Stop recording with **[STOP ■-▼]**.

Recording with automatic switch-off (OTR One-Touch-Recording)

1. Insert a cassette.

2. For the next marking, press **[INDEX ▶]** and then **[FWD ▶▶-▶]**.
3. As soon as the video recorder finds this marking, it automatically switches to playback.

Manual Tracking

To manually adjust the tracking during playback and slow motion playback, press **[PROGRAMME+]**

[PROGRAMME-] or **[PROG P+]** **[PROG P-]**.

Tracking will return to Automatic Tracking

Adjustment when you press **[STOP ■-▼]**, insert a tape, or press **[PLAY ▶▶▶]**.

To remove vertical jitter in a Still picture, press

[PROGRAMME+] **[PROGRAMME-]** or **[PROG P+]** **[PROG P-]**.

2. Use **[PROG P+]** **[PROG P-]** to select the programme number you want to record.
3. Press **[REC ●]**.
4. Each time you press **[REC ●]** you will add 30 minutes to the recording time.

Preventing accidental erasing

All cassettes (except rental and pre-recorded cassettes) have a security tab on the back of the cassette.

To prevent recording over important recordings (erasing), you can remove this security tab.

If you later decide to record on a protected cassette, simply cover the hole with adhesive tape or slide the tab to the right.

Lining up recordings (assemble cut)

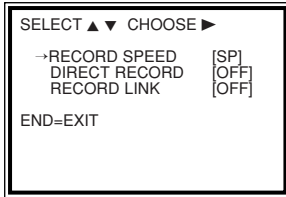
When you add a further recording to a cassette, which already has a recording on it, a short blank (flicker) can appear between the old and the new recording or the picture itself can flicker. To help reduce these from occurring, proceed as follows:

1. Find the tape position of the old recording where you want to insert the new recording.
2. Look at the last minute of the old recording (playback).
3. Press **[STILL ▶▶]** at the tape position where the new recording is to go and press **[REC ●]**.
4. Now start recording as usual by pressing **[REC ●]** on the remote control.
5. Stop recording with **[STOP ■-▼]**.

Selecting the recording speed (SP or LP)

LP allows to double the recording duration on tape (for example six hours instead of three hours on a E180 cassette).

1. Switch on the TV set. If required, select the programme number for the video recorder.
2. Press **[MENU]**. The main menu will appear.
3. Select 'RECORD SETUP' using **[PLAY ▶▶▶]** or **[STOP ■▶▶]** and confirm with **[FWD ▶▶▶▶]**.
4. Select 'RECORD SPEED' using **[PLAY ▶▶▶]** or **[STOP ■▶▶]**.



5. Select the required recording speed with **[FWD ▶▶▶▶]**.

'SP'/'LP' /'AUTO'

'SP': StandardPlay (normal recording speed) offers the usual first-class picture quality.

'LP': LongPlay (half recording speed, double recording time). 6 hours can be recorded on a 3-hour cassette (E180) with a somewhat reduced picture quality.

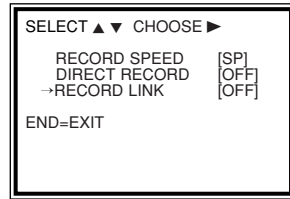
'AUTO': AUTOMATIC Long Play. If there is not enough space on the tape to record a programmed recording in standard speed, the recording is automatically done in 'LP'. (Longplay). Otherwise, the recording speed will be 'SP' (Standardplay).

6. To end, press **[STATUS/EXIT]**.

Automatic controlled recording from a satellite receiver (RECORD LINK)

This function automatically starts recording on the switched-off video recorder when a video signal is recognised through the connected scart cable. If your satellite receiver has a programming function, the recording will start automatically (as long as the satellite receiver is switched on).

1. Use a scart cable to connect scart socket AV2(DECODER) on the video recorder to the corresponding scart socket on the satellite receiver.
2. Switch on the TV. If required, select the programme number for the video recorder.
3. Press **[MENU]**. The main menu will appear.
4. Select 'RECORD SET UP' with **[PLAY ▶▶▶]** or **[STOP ■▶▶]** and confirm with **[FWD ▶▶▶▶]**.
5. Select 'RECORD LINK' with **[PLAY ▶▶▶]** or **[STOP ■▶▶]**.



6. Select function 'ON' with **[FWD ▶▶▶▶]**.

Switching off 'Record Link'

To switch off the function, select 'OFF' with **[FWD ▶▶▶▶]**.

7. To end, press **[STATUS/EXIT]**.
8. Insert a cassette.
9. Programme the satellite receiver with the required information (programme number of the TV channel, start time, end time). If necessary, please see the operating instructions for your satellite receiver.
10. Switch off the video recorder with **[STANDBY/ON Ⓞ]**.

The video recorder is now ready to record. The beginning and end of the recording is controlled via scart socket AV2(DECODER).

'Direct Record'

With Direct Record, you can record the right TV channel in seconds even if your video recorder is switched off. If the recording is started manually, the video recorder uses the current TV channel set on the TV. You will find more information on how to switch 'Direct Record' on or off in the next section. Make sure that your video recorder socket (AV1/TV) and the TV are connected by a scart cable.

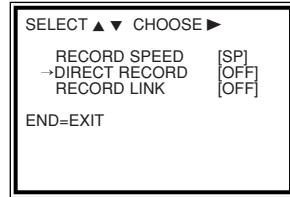
1. On the TV, select the programme number you want make the recording from.
2. Press **[REC ●]** with the video recorder switched off.
3. Stop recording with **[STOP ■▶▶]**.

How does Direct Record work?

The video recorder compares the TV channel selected on the TV set with its stored TV channels via the scart cable. If the same TV channel is found, it switches the video recorder to the corresponding programme number and starts recording. Please do not change the TV channel on the TV set during the search so as not to affect the process.

Switching 'Direct Record' on or off

1. Switch on the TV. If required, select the programme number for the video recorder.
2. Press **[MENU]**. The main menu will appear.
3. Select 'RECORD SET UP' with **[PLAY ▶▶▶]** or **[STOP ■▼]** and confirm with **[FWD ▶▶▶▶]**.
4. In 'DIRECT RECORD', select 'OFF' (Direct Record off) or 'ON' (Direct Record on) with **[FWD ▶▶▶▶]**.



5. To end, press **[STATUS/EXIT]**.
6. Switch off with **[STANDBY/ON ○]**.

5. Programming a recording (TIMER)

General information

Use a TIMER programming to automatically start and stop a recording at a later time or date. The video recorder will switch to the right programme number and begin recording at the correct time. With this video recorder, you can pre-programme up to eight recordings within a period of one year. To make a programmed recording, your video recorder needs to know:

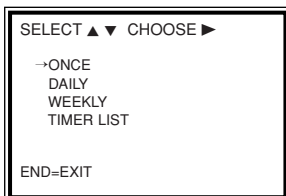
- * the date you want to make the recording
- * the programme number of the TV channel
- * the start and stop time of the recording

This information is saved in a 'TIMER' block.

Programming a recording

1. Switch on the TV. If required, select the programme number for the video recorder.
2. Press **[MENU]**. The main menu will appear.
3. Select 'TIMER' with **[PLAY ▶▶▶]** or **[STOP ■▼]**.
Then press **[FWD ▶▶▶▶]**.
4. Select ONCE, DAILY, or WEEKLY recording with **[PLAY ▶▶▶]** or **[STOP ■▼]**. Then press **[FWD ▶▶▶▶]**.

If any of the TIMER blocks are in use, 'FULL' will appear on the TV screen.



Selecting once/daily/weekly recordings

Use **[PLAY ▶▶▶]** or **[STOP ■▼]** to select from the following options:

- 'ONCE': Recording once
- 'DAILY': Repeated daily recordings from Monday to Friday
- 'WEEKLY': Repeated weekly recordings (every week on the same day)

5. Select TIMER block with **[0.9]**.
6. With **[0.9]** buttons you can enter 'START' (start time), 'STOP' (end time), 'PROG.' (programme number) and 'DATE'.

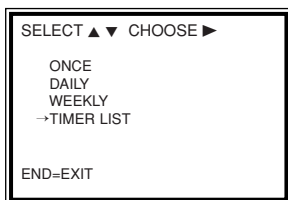
Programme numbers of the 'AV1' and 'AV2' scart socket

You can also programme recordings from external sources via scart socket AV1 (TV) or AV2 (DECODER).

7. When all inputs are correct, press **[STATUS/EXIT]**. The programming information is stored in a TIMER block.
8. Insert a cassette with an intact security tab (unprotected).
9. Switch off with **[STANDBY/ON ○]**.
The programmed recording will only function when the video recorder is switched off with **[STANDBY/ON ○]**.

How to check, or delete a programmed recording (TIMER)

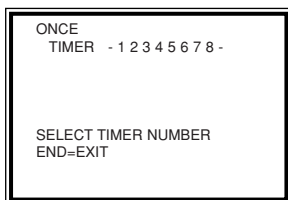
1. Switch on the TV. If required, select the programme number for the video recorder.
2. Press **MENU**. The main menu will appear.
3. Select 'TIMER' with **PLAY ▶-▲** or **STOP ■-▼**.
Then press **FWD ▶▶-▶▶**.
4. Select 'TIMER LIST' with **PLAY ▶-▲** or **STOP ■-▼**, and confirm with **FWD ▶▶-▶▶**.



5. Select timer block with **FWD ▶▶-▶▶**.
6. To cancel the recording, press **CLEAR**.
7. To end, press **STATUS/EXIT**.
8. Switch off with **STANDBY/ON ○**.

How to change a programmed recording (TIMER)

1. Switch on the TV. If required, select the programme number for the video recorder.
2. Press **MENU**. The main menu will appear.
3. Select 'TIMER' with **PLAY ▶-▲** or **STOP ■-▼**.
Then press **FWD ▶▶-▶▶**.
4. Select ONCE, DAILY, or WEEKLY recording with **PLAY ▶-▲** or **STOP ■-▼**. Then press **FWD ▶▶-▶▶**.
5. Select a TIMER block with **0..9**. (The flashing number indicates an empty TIMER block.)



6. Press **CLEAR** to delete information and input correct information with **PLAY ▶-▲** or **STOP ■-▼** or **0..9**.
7. To end, press **STATUS/EXIT**.
8. Switch off with **STANDBY/ON ○**.

Helpful Hints

Error message: 'E' will flash in the video recorder display

- No cassette was inserted. Insert a cassette and switch off the video recorder using **STANDBY/ON ○**.
- A cassette was inserted with the security tab removed.
Undo the erase protection (chapter 'Manual Recording', section 'Preventing accidental erasing of cassettes') or insert a different cassette.

Cassette is ejected during recording

- The end of the tape was reached during recording.

The video recorder does not react

- While a programmed recording is being made, you cannot operate your video recorder manually. If you want to cancel the programmed recording, press **STOP/EJECT**.
 - The end of the tape was reached during recording.

6. Other Functions

Changing the video (colour) system

If you playback recordings made on other video recorders or you want to record from external sources (via the scart socket), the automatic video (colour) system switch-over may lead to colour distortion.

You can switch off the automatic TV system switch-over as follows.

Video (colour) systems

Other countries, other video (colour) systems: In central Europe transmissions are broadcast in the PAL system (Phase Alternation Line) standard. France uses SECAM (Séquentiel à mémoire). In some countries (USA and Japan), TV viewers receive their programmes as an NTSC signal (National Television System Committee).

1. Press **[SYSTEM]** on the remote control to select the TV (colour) system with the least disruptions during playback.

Each pressing **[SYSTEM]**, the display will change cyclically; AUTO, ME-SECAM, PAL.



2. After 5 seconds, the OSD will disappear.

Which settings can I choose?

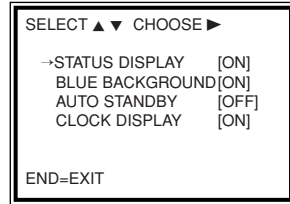
'ON': Shows the status display for a few seconds only.

'OFF': Switches off the status display.

Switching the status display off or on

Along with the on screen menu, the status display also displays information on the current operating status (counter, playback, recording, TV channel, etc.) on the TV screen. You can switch off the information about the operating status so that the status display is not recorded when copying videocassettes.

1. Switch on the TV set. If required, select the programme number for the video recorder.
2. Press **[MENU]**. The main menu will appear.
3. Select 'VCR SET UP' with **[PLAY ▶-▲]** or **[STOP ■-▼]** and confirm with **[FWD ▶▶-▶▶]**.
4. Select 'STATUS DISPLAY' with **[PLAY ▶-▲]** or **[STOP ■-▼]**.

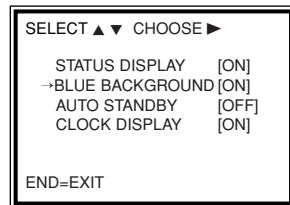


5. Select 'ON' or 'OFF' with **[FWD ▶▶-▶▶]**.
6. To end, press **[STATUS/EXIT]**.

Blue Background on or off

If you want the TV screen to be solid blue when a weak signal is received, set BLUE BACKGROUND to 'ON'. The screen will be blue and the sound will be muted. Or, if you want to receive the weak signal, set BLUE BACKGROUND to 'OFF'.

1. Switch on the TV. If required, select the programme number for the video recorder.
2. Press **[MENU]**. The main menu will appear.
3. Select 'VCR SET UP' using **[PLAY ▶-▲]** or **[STOP ■-▼]** and confirm with **[FWD ▶▶-▶▶]**.
4. Select 'BLUE BACKGROUND' using **[PLAY ▶-▲]** or **[STOP ■-▼]** and confirm with **[FWD ▶▶-▶▶]**.

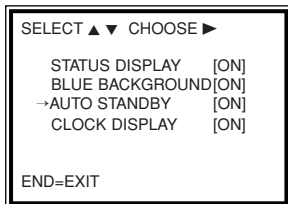


5. Select 'OFF' (no blue background) or 'ON' (blue background on) with **[FWD ▶▶-▶▶]**. If you select 'OFF', the menu display will disappear.
6. To end, press **[STATUS/EXIT]**.

Automatic switch-off

If you haven't used the video recorder for a few minutes in certain modes (e.g.: STOP), it will switch to standby automatically. You can cancel this function to use the video recorder as a television receiver.

1. Switch on the TV. If required, select the programme number for the video recorder.
2. Press **[MENU]**. The main menu will appear.
3. Select 'VCR SET UP' using **[PLAY ▶-▲]** or **[STOP ■-▼]** and confirm with **[FWD ▶▶-▶]**.
4. Select 'AUTO STANDBY' using **[PLAY ▶-▲]** or **[STOP ■-▼]**.

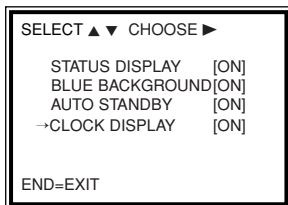


5. Select 'OFF' (no automatic switch-off) or 'ON' (automatic switch-off) with **[FWD ▶▶-▶]**.
6. To end, press **[STATUS/EXIT]**.

Clock Display

This function allows you to switch the VCR display off. It is useful in case you feel disturbed by the display-brightness while watching TV in a dark room. It also reduces the power consumption.

1. Switch on the TV. If required, select the programme number for the video recorder.
2. Press **[MENU]**. The main menu will appear.
3. Select 'VCR SET UP' using **[PLAY ▶-▲]** or **[STOP ■-▼]** and confirm with **[FWD ▶▶-▶]**.
4. Select 'CLOCK DISPLAY' using **[PLAY ▶-▲]** or **[STOP ■-▼]**.



5. Select 'OFF' (no clock display) or 'ON' (clock display on) with **[FWD ▶▶-▶]**.
6. To end, press **[STATUS/EXIT]**.

Selecting the sound channel

You can select the desired sound channel during playback or while receiving TV channels via the video recorder. This allows you to select a desired language for multi-language transmissions.

1. Press **[AUDIO]**. This will show the current sound setting.
2. Press **[AUDIO]** until the desired setting appears in the display.

• Reception of stereo broadcasts:

| Mode | AUDIO OUTPUT | | Display on the TV screen |
|----------|--------------|-----------|--------------------------|
| Stereo | L | L Audio | STEREO |
| | R | R Audio | |
| L | L | L Audio | LEFT |
| | R | L Audio | |
| R | L | R Audio | RIGHT |
| | R | R Audio | |
| Monaural | L | L+R Audio | NONE |
| | R | L+R Audio | |

• During playback of the recorded tape in Hi-Fi mode:

| Mode | AUDIO OUTPUT | | Display on the TV screen |
|----------|--------------|------------------------------|--------------------------|
| Stereo | L | Hi Fi L Audio | STEREO |
| | R | Hi Fi R Audio | |
| L | L | Hi Fi L Audio | LEFT |
| | R | Hi Fi L Audio | |
| R | L | Hi Fi R Audio | RIGHT |
| | R | Hi Fi R Audio | |
| Monaural | L | Normal Audio | MONO |
| | R | Normal Audio | |
| MIX | L | Hi Fi L Audio + Normal Audio | MIXED |
| | R | Hi Fi R Audio + Normal Audio | |

• During reception of bilingual broadcasts:

| Mode | AUDIO OUTPUT | | Display on the TV screen |
|----------|--------------|------------|--------------------------|
| MAIN | L | Main Audio | MAIN |
| | R | Main Audio | |
| SUB | L | Sub Audio | SUB |
| | R | Sub Audio | |
| MAIN SUB | L | Main Audio | MAIN SUB |
| | R | Sub Audio | |

7. Before you call an engineer

If, contrary to expectation, you have any problems using this video recorder, it may be caused by the following reasons.

Your video recorder does not respond to any button being pressed:

- * There is no power supply: check the power supply.
 - * A programmed recording is currently being made: if desired, cancel the programmed recording. Please see the section 'How to check or delete a programmed recording' in chapter 'Programming a recording'
 - * There is a technical problem: disconnect from the mains power supply for 60 seconds, then connect again.
- If this doesn't help, you could reset your video recorder to the default factory settings.

Resetting devices to default factory settings

*** Attention:**

All the information stored (TV channels, time and date, TIMER) will be cleared.

1. Switch off this video recorder with

[STANDBY/ON ⏻].

2. Press and hold **[STOP/EJECT]** and **[PROGRAMME+]** for 2 seconds or more at the same time.

Cassette is jammed in the video recorder:

- * Don't use force. Pull out the mains plug for a moment.

Remote control does not work:

- * Remote control not pointed toward the video recorder: point it at the video recorder.
- * There is a technical problem: Take out the batteries, wait for 10 seconds and place them back.
- * Batteries have run out: change the batteries.

No picture when you play a cassette:

- * There is no recording on the cassette: change the cassette.
- * You have selected the wrong programme number on the TV for playing cassette: on the TV, select the correct programme number for the video recorder.
- * The cable connecting the TV set and the video recorder has come loose: check the cable.

Poor picture quality when you play a cassette:

- * Your TV set is not properly adjusted.
- * The cassette is badly worn or of poor quality: use new cassette.
- * Tracking is not properly adjusted: turn to section 'Manual Tracking'.

No recording possible:

- * The TV channel you want to record is not stored or you selected the wrong programme number: check TV channels stored.
- * A cassette was inserted that does not have the security tab (cannot be used to record): Insert a cassette with an intact security tab or change cassette. For more information, please see the section 'Preventing accidental erasing of cassettes' in chapter 'Manual Recording'.

There is picture or sound interference on TV reception:

- * Turn to chapter 'Installing your video recorder' and read 'Setting the RF out channel'.
- * Have your aerial checked.

You can also call the **customer service centre** in your country.

The telephone numbers can be found on the back of this instruction manual. Have the model number (MODEL NO) and the production number (PROD.NO.) of your video recorder ready.

PHILIPS NORGE AS
Sandstuveien 70,
PO Box 1, Manglerud
N-0612 Oslo
NORWAY
Phone: 2274 8250

PHILIPS AUSTRIA GMBH
Triesterstrasse 64
1101 Wien
AUSTRIA
Tel: 0810 001 203

PHILIPS PORTUGUESA, S.A.
Consumer Information Centre
Rua Dr. António Loureiro Borge, nr. 5
Arquiparque, Miraflores
P-2795 L-A-VEHLA
PORTUGAL
Phone: 021-4163063

OY PHILIPS AB
Sinikalliontie 3
02630 Espoo
FINLAND
puh. 09 615 80 250

PHILIPS INFO CENTER
Alexanderstrasse 1
20099 Hamburg
GERMANY
Tel: 0180-53 56 767

PHILIPS CE, The Philips Centre,
420 - 430 London Road,
Croydon, Surrey
CR9 3 QR
UNITED KINGDOM
Phone: 0208-665-6350

PHILIPS KUNDTJÄNST
Kista Entré
Knarrarnäsgatan 7
164 85 Stockholm
SWEDEN
Tel: (0)8 598 52 250

SERVICE CONSOMMATEURS PHILIPS
BP 0101
75622 Paris Cédex 13
FRANCE
Phone: 0825-889 789

PHILIPS KUNDECENTER
Frederikskaj 6,
1780 København V
DANMARK
Tlf.: 80 88 28 14

PHILIPS POLSKA
Al. Jerozolimskie 195B
02-222 Warszawa
POLSKA
TEL.: (022)-571-0-571

PHILIPS ELECTRONICS IRELAND LIMITED
Consumer Information Centre
Newstead, Clonskeagh
DUBLIN 14
Phone: 01-7640292

PHILIPS REPRESENTATION OFFICE
Ul. Usacheva 35a
119048 MOSCOW
RUSSIA
Phone: 095-937 9300

INFOLINKA PHILIPS
Šafránkova 1
150 00 Praha 5
CZECH REPUBLIC
Tel.: (02)-330 99 330

PHILIPS CONSUMER ELECTRONICS
Servizio Consumatori
Via Casati 23
20052 Monza - Milano
ITALY
Phone: 800 820026

PHILIPS INFO CENTER
Fegistrasse 5
8957 Spreitenbach
SUISSE
Tel.: 0844-800 544

PHILIPS Iberia, S.A.
C/Martinez Villergas, 49
28027 MADRID
SPAIN
Phone: 902-11 33 84

PHILIPS MAGYARORSZÁG KFT.
Fehérvári út 84/a.
Budapest 1119
HUNGARY
Phone: (01)-382-1700

PHILIPS CUSTOMER CARE CENTER
Twee Stationsstraat 80/
80 Rue des Deux Gares
1070 BRUSSEL/BRUXELLES
BELGIUM (for BENELUX)
Tel: 070-222303

ΦΙΛΙΠΣ ΕΛΛΑΣ ΑΕΒΕ
25ΗΣ ΜΑΡΤΙΟΥ 15
177 78 ΤΑΥΡΟΣ
ΑΘΗΝΑ
Τηλ. 00800 3122 1280

PHILIPS CONSUMENTENLIJN
Postbus 102 5600 AC Eindhoven
NEDERLAND
Tel.: 0900-8406



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