LG

Colour TVCR
OWNER'S MANUAL

Please read this manual carefully before operating your set.
Retain it for future reference.
Record model number and serial number of the set.
See the label attached on the back cover and quote this
information to your dealer when you require service.

Model number :
Serial number :

FOR THE GUARANTEE TERMS & CONDITIONS,
PLEASE REFER TO BACK COVER OF THIS MANUAL

Contents

Power

This set operates on a mains supply of 230V AC, 50Hz. In the event of thunderstorms or powercuts, please pull out the aerial and mains plugs.

Wiring

This set is supplied with a BS 1363 approved 13 amp mains plug, fused at 5 amp. When replacing the fuse always use a 5 amp BS 1362, BSI or ASTA approved type. Never use this plug with the fuse cover omitted. To obtain a replacement fuse cover contact your dealer or "LG Electronics U.K. Ltd.".

If the type of plug supplied is not suitable for the mains sockets in your home, then the plug should be removed and a suitable type fitted. Please refer to the wiring instructions below:

Warning

A mains plug removed from the mains lead of this set must be destroyed. A mains plug with bared wires is hazardous if inserted in a mains socket.

Do not connect either wire to the earth pin, marked with the letter E or with the earth symbol ⏚ or coloured green or green and yellow.

If any other plug is fitted, use a 5 amp fuse, either in the plug, or at the distribution board.

Important

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

BLUE: NEUTRAL
BROWN: LIVE

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

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Service

Never remove the back cover of the set as this can expose you to very high voltage and other hazards. If the set does not operate properly, unplug it and call your dealer.

Aerial

Connect the aerial cable to the socket marked ∏75§ Ù on the bac cover. For the best reception an outdoor aerial should be used.

Location

Position your set so that no bright light or sunlight falls directly onto the screen. Care should be taken not to expose the set to any unnecessary vibration, moisture, dust or heat. Also ensure that the set is placed in a position to allow a free flow of air. Do not cover the ventilation openings on the back.

Moisture condensation

Under special conditions, like moving your set from a cold to a warm room, moisture condensation can build up on the head drum, one of the most crucial parts of each VCR.
In order to prevent in such case any damage to your VCR HEAD DRUM, connect the set power cord to the AC line, switch on the main power button on the back cover and allow at least 2 hours for the set to dry out.
Condensation is likely to occur when:
1. The video recorder is moved from a cold room to a warm room or from outdoors to inside your home.
2. A cold room is heated quickly.
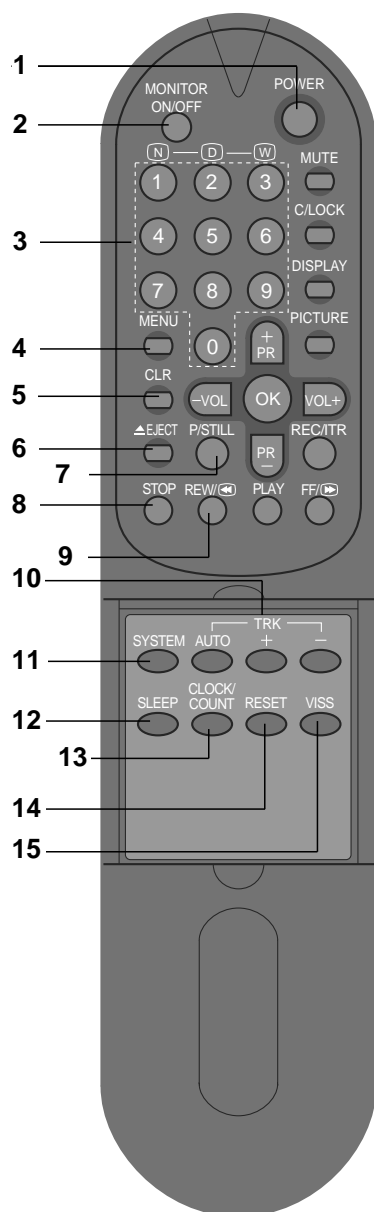3. The humidity is very high.

Location and function of controls

All the functions can be controlled with the remote control handset. Some functions can also be adjusted with the buttons on the front panel of the set.

Remote control handset

Before you use the remote control handset, please install the batteries. See the next page.

1. **POWER**
   switches the set on from standby or off to standby.

2. **MONITOR ON/OFF**
   switches the monitor on or off.

3. **NUMBER BUTTONS**
   switch the set on from standby or directly select a number.

4. **MENU**
   selects a menu.

5. **CLEAR**
   clears an incorrect entry.

6. **EJECT**
   ejects the tape.

7. **PAUSE/STILL**
   stops the tape temporarily during recording.
   displays a still picture during playback.

8. **STOP**
   stops the tape.

9. **REW (REWIND/REVIEW)**
   rewinds the tape in the stop mode.
   reviews fast the tape during playback.

10. **TRK AUTO, +/-**
    adjust the picture automatically or manually during playback.

11. **SYSTEM**
    selects the desired colour system.

12. **SLEEP**
    sets the sleep timer.

13. **CLOCK/COUNT**
    displays the current time or tape counter.

14. **RESET**
    resets the tape counter.

15. **VISS**
    selects the VISS (VHS Index Search System) mode.

Location and function of controls

16. MUTE

switches the sound on or off.

17. CHILD LOCK

switches the child lock on or off.

18. DISPLAY

shows the current mode.

19. PICTURE

displays the picture set mode.

20. PROGRAMME UP/DOWN

switches the set on from standby.
selects a programme or a menu item.

VOLUME UP/DOWN

adjusts the volume.
adjusts menu settings.

OK

accepts your selection or displays the current mode.

21. REC/ITR

starts a manual recording or instant timer recording.

22. FF (FAST FORWARD/CUE)

winds the tape forward in the stop mode.
fast forward playback.

23. PLAY

plays back the tape.
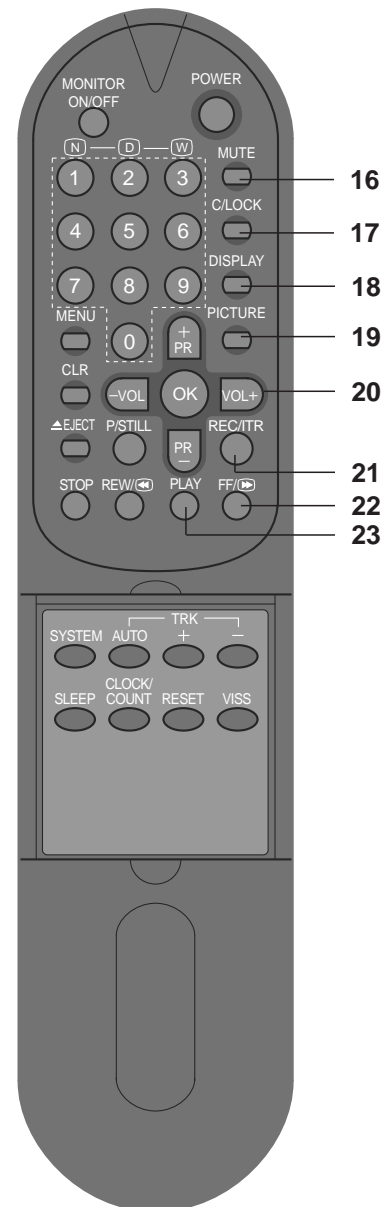
Battery installation

The remote control handset is powered by two AA type batteries. Gently pull down the cover of the remote control handset until the battery compartment is exposed. Install two batteries as indicated by the polarity symbols(+ and -) marked inside the compartment.
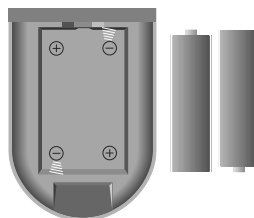
Note : *To avoid damage from possible battery leakage, remove the batteries if you do not plan to use the remote control handset for an extended period of time.*

Location and function of controls   KI-14V38/20V38

(on the back cover)
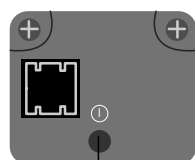
Front panel
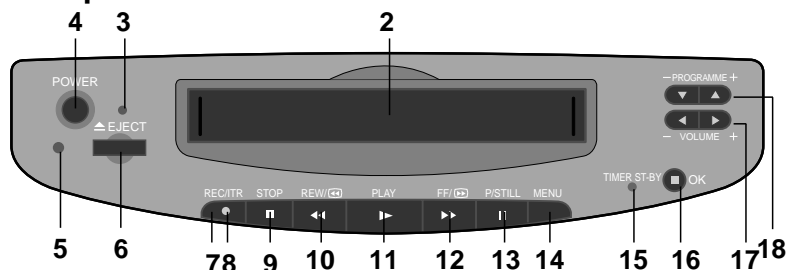
1. **MAIN POWER**
   switches the set on or off.
2. **CASSETTE COMPARTMENT**
   To insert a video cassette tape here.
3. **STANDBY INDICATOR**
   illuminates red when the set is in standby mode.
   blinks red when the set is in child lock mode.
4. **POWER**
   switches the set on from standby or off to standby.
5. **REMOTE CONTROL SENSOR**
6. **EJECT**
   ejects the tape.
7. **REC/ITR**
   starts a manual recording or instant timer recording.
8. **REC/ITR INDICATOR**
   illuminates red during recording.
9. **STOP**
   stops the tape.
10. **REW (REWIND/REVIEW)**
    rewinds the tape in the stop mode.
    reviews fast the tape during playback.
11. **PLAY**
    plays back the tape.
12. **FF (FAST FORWARD/CUE)**
    winds the tape forward in the stop mode.
    fast forward playback.
13. **PAUSE/STILL**
   stops the tape temporarily during recording.
    displays a still picture during playback.
14. **MENU**
    selects a menu.
15. **TIMER ST-BY INDICATOR**
    illuminates in standby mode when the timer programme is set
    for recording.
16. **OK**
    accepts your selection or displays the current mode.
17. **VOLUME UP/DOWN**
    adjusts the volume.
    adjusts menu settings.
18. **PROGRAMME UP/DOWN**
    switches the set on from standby.
    selects a programme or a menu item.

Location and function of controls   KI-14U30/20U30

(on the back cover)
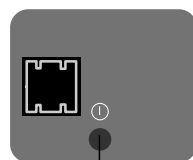
Front panel
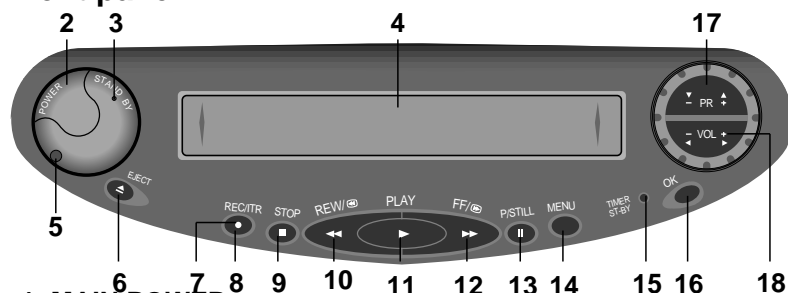
1. MAIN POWER
switches the set on or off.

2. POWER
switches the set on from standby or off to standby.

3. STANDBY INDICATOR
illuminates red when the set is in standby mode.
blinks red when the set is in child lock mode.

4. CASSETTE COMPARTMENT
To insert a video cassette tape here.

5. REMOTE CONTROL SENSOR

6. EJECT
ejects the tape.

7. REC/ITR
starts a manual recording or instant timer recording.

8. REC/ITR INDICATOR
illuminates red during recording.

9. STOP
stops the tape.

10. REW (REWIND/REVIEW)
rewinds the tape in the stop mode.
reviews fast the tape during playback.

11. PLAY
plays back the tape.

12. FF (FAST FORWARD/CUE)
winds the tape forward in the stop mode.
fast forward playback.

13. PAUSE/STILL
stops the tape temporarily during recording.
displays a still picture during playback.

14. MENU
selects a menu.

15. TIMER ST-BY INDICATOR
illuminates in standby mode when the timer programme is set
for recording.

16. OK
accepts your selection or displays the current mode.

17. PROGRAMME UP/DOWN
switches the set on from standby.
selects a programme or a menu item.

18. VOLUME UP/DOWN
adjusts the volume.
adjusts menu settings.

Basic operation

On and off

1. To switch the set on, press the main power button on the back of the set.
2. If the set is in standby mode, press the **POWER**, **PR+/-** or NUMBER buttons to switch it on fully.
3. Press the **POWER** button once more. The set reverts to standby.
4. Press the main power button again to switch the set off.

Note : If, while the set is switched on, the mains plug is disconnected the set will switch to standby when the mains plug is replaced in the mains power socket.

Programme selection

You can select a programme number with the **PR+/-** or NUMBER buttons.

Note : Programme number 0 is reserved for AV mode.

Volume adjustment

Press the **VOL+/-** button to adjust the volume.

Mute function

Press the **MUTE** button. The sound is switched off and the display **Mute** appears. You can cancel it by pressing the **MUTE** or **VOL+/-** button.

On screen language selection

The menu can be displayed on the screen in English, French or German. First select your language.

1. Repeatedly press the **MENU** button to select MENU 3.
2. Press the **PR+/-** button to select **Language**.
3. Press the **VOL+/-** button to select the desired language.
   All the on screen displays will appear in the selected language.
4. Press the **OK** button. The on screen menu will disappear.

On screen menus
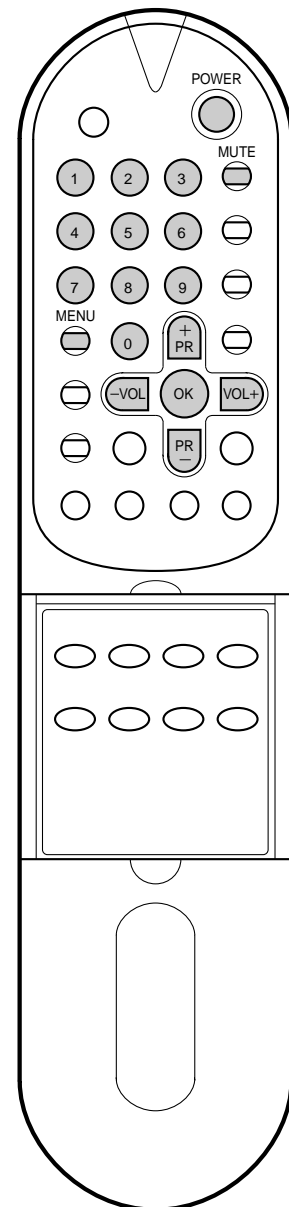
Many of the functions available on this set are set up via menus.

Menu selection

1. Repeatedly press the **MENU** button to display each menu.
2. Press the **PR+/-** button to select a menu item.
   The selected menu item changes from blue to purple.
3. Press the **VOL+/-** or NUMBER buttons to set a menu item or **OK** button to display the sub menu.

Note :

*a. The menus automatically disappear in about 10 seconds if you do not press a button but the sub menus of MENU 4 disappear by pressing the **MENU** button.*

b. In the AV, playback or recording modes, MENU 4 is not displayed.

*c. If you press the **MENU** button on the front panel, the menus will appear in order: PICTURE SET MENU, MENU 3, MENU 4.*
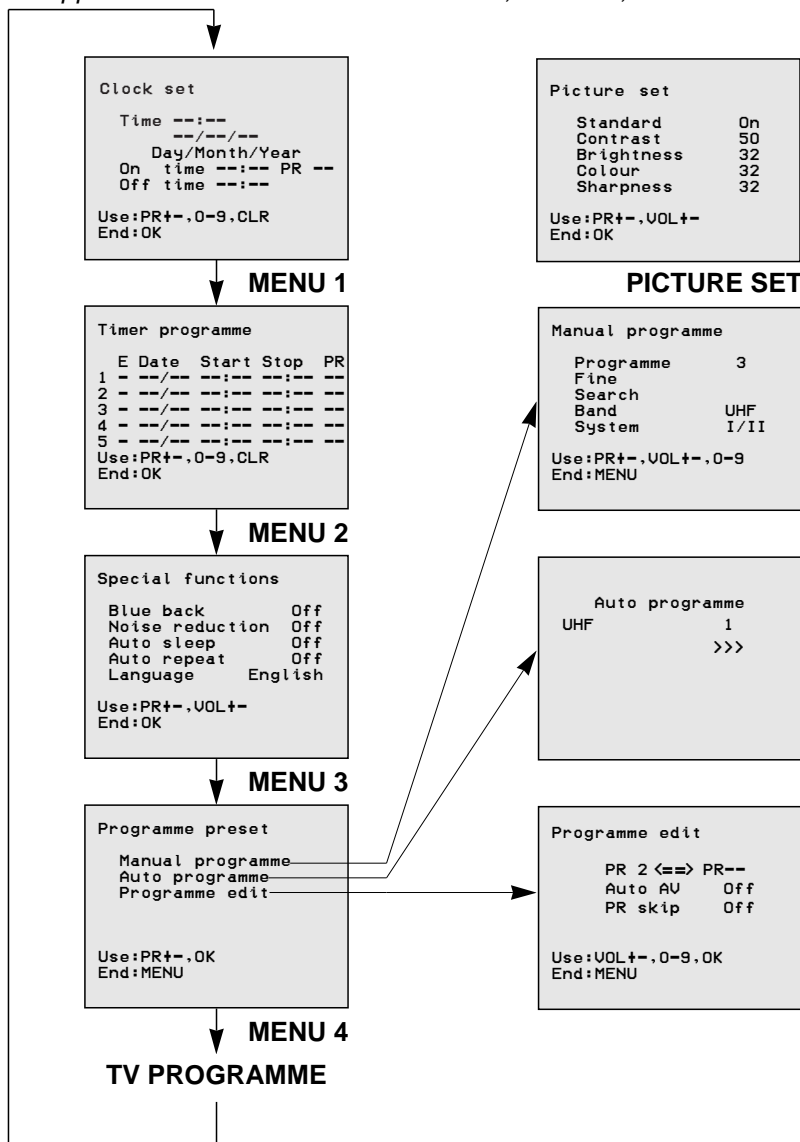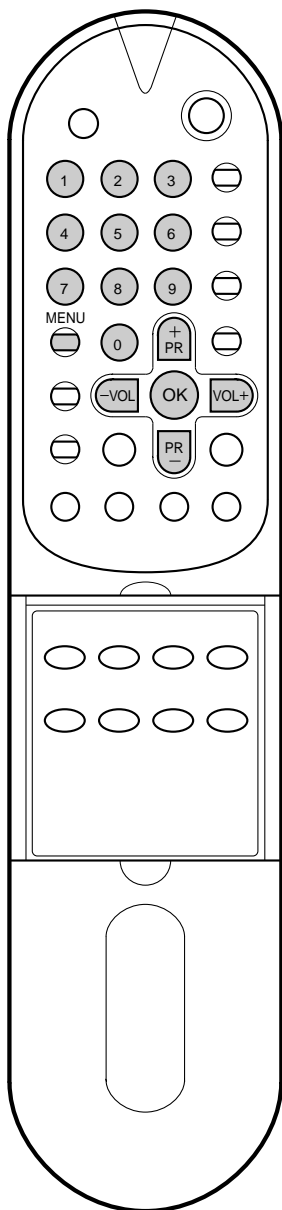
```
Clock set

  Time --:--
       --/--/--
     Day/Month/Year
 On  time --:-- PR --
 Off time --:--

Use:PR+-,0-9,CLR
End:OK
```

MENU 1

```
Picture set

   Standard      On
   Contrast      50
   Brightness    32
   Colour        32
   Sharpness     32

Use:PR+-,VOL+-
End:OK
```

PICTURE SET

```
Timer programme

  E Date  Start Stop  PR
1 - --/-- --:-- --:-- --
2 - --/-- --:-- --:-- --
3 - --/-- --:-- --:-- --
4 - --/-- --:-- --:-- --
5 - --/-- --:-- --:-- --
Use:PR+-,0-9,CLR
End:OK
```

MENU 2

```
Manual programme

   Programme     3
   Fine
   Search
   Band          UHF
   System        I/II

Use:PR+-,VOL+-,0-9
End:MENU
```

```
Special functions

 Blue back       Off
 Noise reduction Off
 Auto sleep      Off
 Auto repeat     Off
 Language        English

Use:PR+-,VOL+-
End:OK
```

MENU 3

```
     Auto programme
UHF              1
             >>>
```

```
Programme preset
  Manual programme
  Auto programme
  Programme edit


Use:PR+-,OK
End:MENU
```

MENU 4

TV PROGRAMME

```
Programme edit

    PR 2 <==> PR--
    Auto AV    Off
    PR skip    Off

Use:VOL+-,0-9,OK
End:MENU
```

Setting up TV stations

Up to 59 TV stations can be stored in this set by programme numbers (1 to 59). Once you have preset the stations, you will be able to use the **PR+/-** or NUMBER buttons to scan the stations you programmed.
Stations can be tuned using automatic or manual modes.

Please ensure that your external VCR, Satellite Receiver or Cable TV Decoder are connected, switched on and were applicable have their test signals switched on before tuning the set. It may however be necessary to Manually tune and then Fine tune the set to receive signals from these sources.

Auto programme tuning

All stations that can be received are stored by this method. It is recommended that you use auto programme during installation of this set.

1. Repeatedly press the **MENU** button to select MENU 4.
2. Press the **PR+/-** button to select **Auto programme**.
3. Press the **OK** button to begin auto programming.

Option :
Dual standard models, the band automatically changes
VHF-L ¡æVHF-H ¡æUHF.

When auto programming is completed, the station stored into programme number 1 will appear on the screen.

To stop auto programming, press the **OK** or **MENU** button. The active programme at that time will be displayed.

Note : *Some undesired stations may be stored, such as noisy or unclear signals from distant transmitters. You can easily skip these stations by entering* **Programme edit** *mode.*
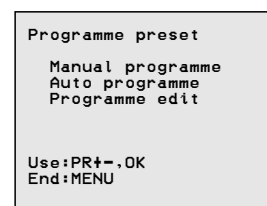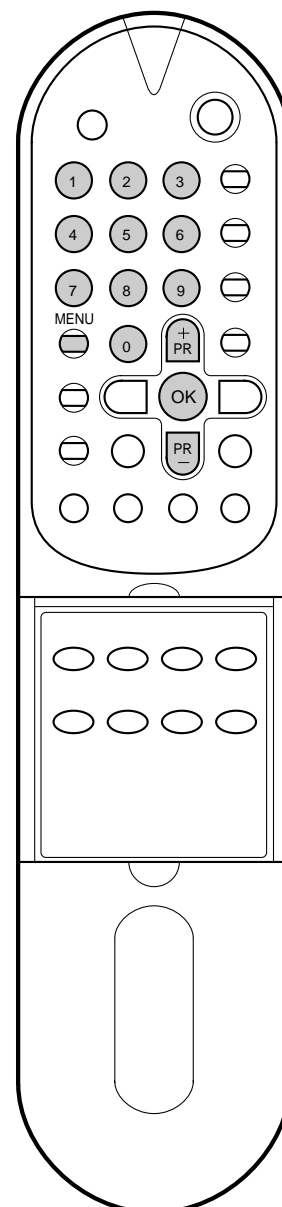
```
Programme preset        MENU 4

   Manual programme
   Auto programme
   Programme edit


Use:PR+-,OK
End:MENU
```

Setting up TV stations

```
Programme preset

   Manual programme
   Auto programme
   Programme edit


Use:PR+-,OK
End:MENU
```
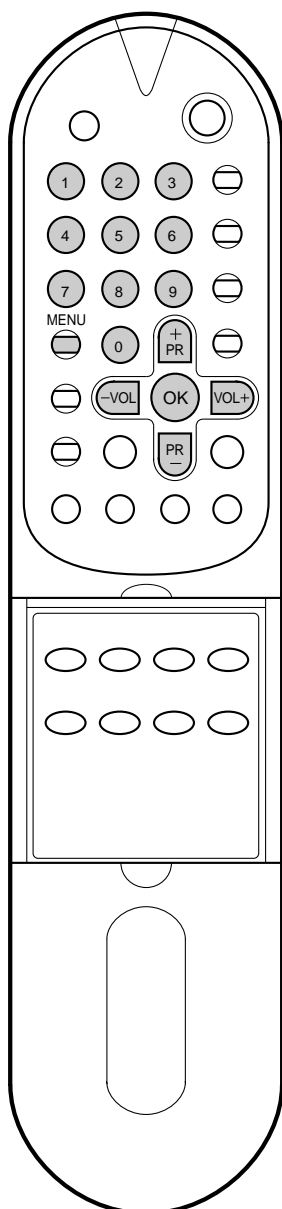
Manual programme tuning

Manual programme lets you manually tune and arrange the stations in whatever order you desire.

1. Repeatedly press the **MENU** button to select MENU 4.
2. Press the **PR+/-** button to select **Manual programme**.
3. Press the **OK** button to display the **Manual programme** mode.

```
Manual programme

   Programme      3
   Fine
   Search
   Band          UHF
   System        I/II

Use:PR+-,VOL+-,0-9
End:MENU
```

4. Press the **PR+/-** button to select **Programme**. Select the desired programme number with the NUMBER buttons. Any number 1 to 5 is entered with a numeric '**0**' in front of it, i.e. '**05**' for 5.
   You can use the VOLUME UP/DOWN button on the front panel instead of the NUMBER buttons.
   Option :
   Dual standard models, you can select **Band** among **VHF-L**, **VHF-H** and **UHF**. In that case, select the required band with the **PR+/-** and **VOL+/-** button.
5. Press the **PR+/-** button to select **Search**. Press the **VOL+/-** button to commence searching. If a station is found the search will stop.
6. If this station is the one required press the **OK** button, if not press the **VOL+/-** button again.
7. To store another station repeat steps 4 to 6.
8. Press the **MENU** button. The on screen menu will disappear.

Fine tuning

Normally fine tuning is only necessary if reception is poor.

1. Repeat steps 1 to 3 above.
2. Press the **PR+/-** button to select **Fine**.
3. Press the **VOL+/-** button to fine tune for the best picture and sound.
4. Press the **OK** button to store the setting.
5. Press the **MENU** button. The on screen menu will disappear.

Setting up TV stations

Programme edit

This function enables you to rearrange the programmes stored by auto programming in whatever order you desire. Also you can skip particular programme numbers stored by auto programming.

1. Repeatedly press the **MENU** button to select MENU 4.
2. Press the **PR+/-** button to select **Programme edit**.
3. Press the **OK** button, and the **Programme edit** mode will appear.

```
Programme edit

    PR 2 <==> PR--
    Auto AV    Off
    PR skip    Off


Use:VOL+-,0-9,OK
End:MENU
```
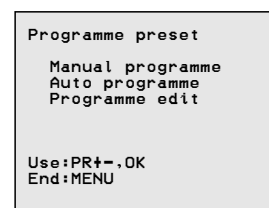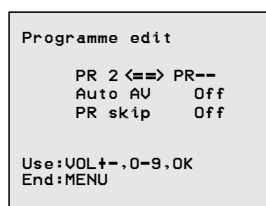
Exchanging programmes

1. Press the NUMBER buttons to change the left hand programme number. Any number 1 to 5 is entered with a numeric '**0**' in front of it. The viewing station corresponding to the new programme number is shown on the screen.
2. Select the next position with the **VOL+/-** button.
3. Press the NUMBER buttons to select the desired right hand programme number.
4. Press the **OK** button. The station stored in the right hand programme number will now appear as the left hand programme number.
5. Repeat steps 1 to 4 to exchange other programmes.

Auto AV setting

AV mode is used when an external equipment (e.g., VCR, camcorder, game machine, pay TV decoder, etc.) is connected to the set.
When an AV signal is input through the Euro scart socket, select **Auto AV On**. The set is automatically switched to AV mode. And a pay TV station is descrambled. But if you want to keep on watching TV station, set **Auto AV** to **Off**.

1. Press the NUMBER buttons to select your desired programme number.
2. Press the **PR+/-** button to select **Auto AV**.
3. Press the **VOL+/-** button to select **On** or **Off**.
4. Repeat steps 1 to 3 to set another programme.
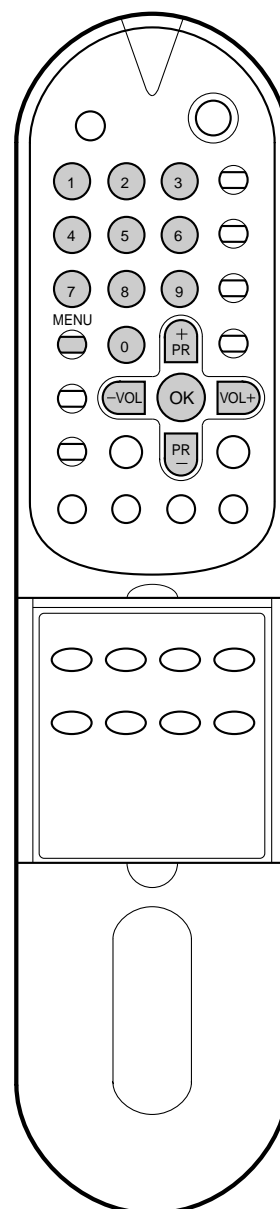
```
Programme preset          MENU 4

   Manual programme
   Auto programme
   Programme edit


Use:PR+-,OK
End:MENU
```

Setting up TV stations

```
Programme preset

   Manual programme
   Auto programme
   Programme edit


Use:PR+-,OK
End:MENU
```

Skipping a stored programme

1. Press the NUMBER buttons to select the programme you want to skip.
2. Press the **PR+/-** button to select **PR skip**.
3. Press the **VOL+/-** button to select **On** or **Off**.
   If you select **On**, the selected station is skipped.
4. Repeat steps 1 to 3 to skip another programme.

The selection of the skipped programme numbers with the NUMBER buttons is still possible and they will be indicated by red numbers during programme selection

Note : *You cannot skip programme number 1.*

Press the **MENU** button. The on screen menu will disappear.
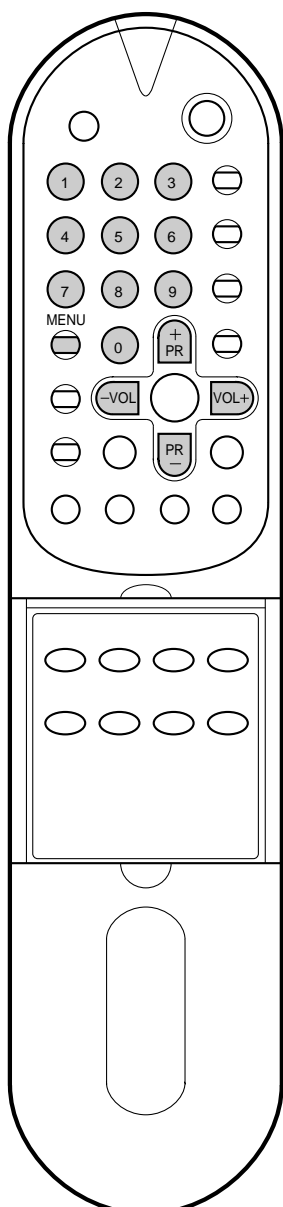
Time setting

The clock uses the 24 hour system.

MENU 1

```
Clock set

 Time --:--
      --/--/--
      Day/Month/Year
 On  time --:-- PR --
 Off time --:--

Use:PR+-,0-9,CLR
End:OK
```

Note :
*a. If you accidently press a wrong digit, repeatedly press the **CLR** button until the incorrect digit flashes. Then enter the correct digit.*
*b. If you enter an illogical time or date (for example, 13 for the month), the mark **?** will appear on the screen. Re-enter the correct number.*

Current time

You must set the correct time and date before operating the set.

1. Repeatedly press the **MENU** button on the remote control handset to select MENU 1.
2. Enter two digits for the hour and two digits for the minute with the NUMBER buttons. For example, press '**0845**' for **8:45** AM.
3. Enter two digits for the day, two digits for the month and two digits for the year with the NUMBER buttons. For example, press '**251295**' for Dec. 25th 1995. The day of the week is automatically displayed.
4. Press the **OK** button to start.

Note : The clock operates for at least 10 minutes, if the power is switched off or there is a power interruption (disconnection or power failure).

On/off time

By using this function, the set automatically switches on or off at a preset time. You must set the time correctly before using on/off time function.

1. Repeatedly press the **MENU** button on the remote control handset to select MENU 1.
2. Press the **PR+/-** button to select **On time** or **Off time**.
3. Enter two digits for the hour, two digits for the minute and press the NUMBER buttons to select the programme number.
4. Press the **OK** button to start.
For off time, please note the absence of programme number.

Note :
*a. To cancel the on or off time, press the **CLR** button at step 3.*
b. If the same time is set for the on time and the off time, only the off time operates.
*c. This set must be put into standby mode with the **POWER** button to operate the on time function.*
d. Two hours after the set is switched on by the on time function it will automatically switch back to standby mode unless a button has been pressed.
e. Once the on or off time is set, these functions operate daily at the preset time.
f. Recording will be continued even if the monitor is switched off at the off time in the recording mode.
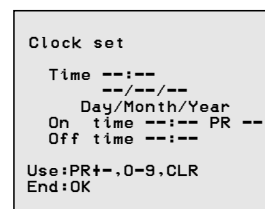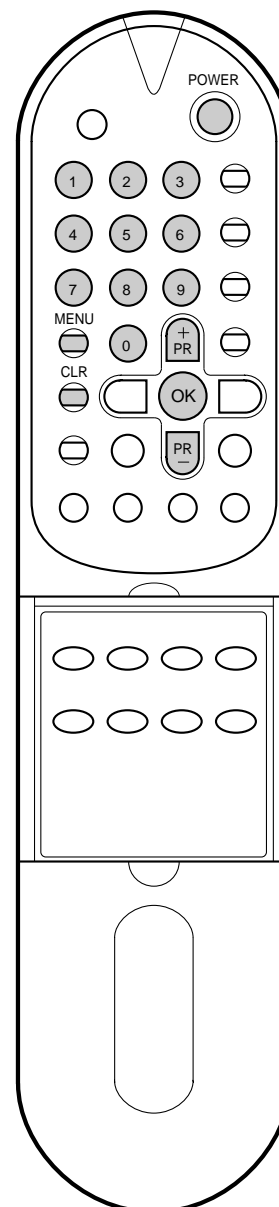
Automatic operation

To play back a tape which does not have a safety tab (this means you cannot record on to it) insert a tape.
The set will at once switch itself on if the set is in standby mode and automatically perform the following sequence :

PLAY ¡æSTOP ¡æREWIND ¡æEJECT

To play back a video cassette tape which has a safety tab (this means that you have recorded on it and left the tab untouched) insert a tape. The set will switch itself on if the set is in standby mode. Then press the **PLAY** button to play back.

Manual operation

1. Insert a video cassette tape.
2. Press the **PLAY** button. The recording on the tape appears on the screen.
3. To stop playback, press the **STOP** button.
4. To take out the tape, press the **EJECT** button.

Tape tracking control

Tracking ensures that the tape is correctly aligned with the playback head. It works only during playback and its principle purpose is to minimize picture shake and noise (fuzzy lines across the picture). It is adjusted automatically or manually.
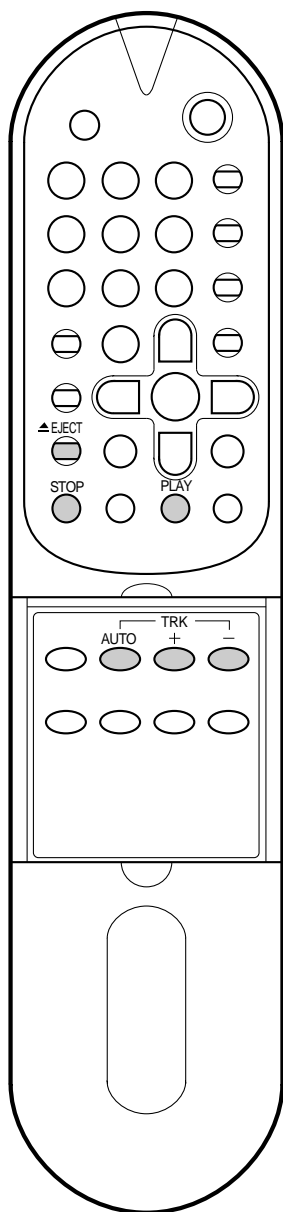
Auto tracking

Whenever playback starts, auto tracking automatically adjusts the picture. The display **AUTO TRK** will appear while the best picture is selected.
To reactivate auto tracking, press the **AUTO TRK** button on the remote control handset.

Manual tracking

You can manually adjust the picture by pressing the **TRK +/-** buttons.

VCR operation

Pause/still picture control

To temporarily stop playback, press the **P/STILL** button. A still picture and the display **STILL** will appear on the screen.
To advance the picture frame by frame, repeatedly press the **P/STILL** button.
If a still picture lasts for more than five minutes, the set will switch to the stop mode to protect the tape and the video heads.
To restart play back, press the **PLAY** button.

To temporarily stop recording, press the **P/STILL** button. The display **PAUSE** will appear. Press this button again to continue recording.

Fast forward, cue, rewind and review

Forward search

Press the **FF** button during playback.
The display **CUE** will appear and the tape plays faster than normal speed. Press the **PLAY** button to return to normal speed.

Pressing and holding the **FF** button will cause the set to search the tape forward at very high speed while displaying the picture.
Release the **FF** button to return to normal speed.

Pressing the **FF** button in the stop mode winds the tape forward. Then the display **FF** will appear on the screen.
If you press and hold the **FF** button in this mode, the searching picture will appear. This enables you to see what is on the tape. To return to the FF mode, release the **FF** button.

If the tape winds forward to the end, it will automatically stop, rewind to the beginning and then eject the tape.

Reverse search

Press the **REW** button during playback.
The display **REV** will appear and the tape will play in reverse faster than normal speed. Press the **PLAY** button to return to normal playback.

Pressing and holding the **REW** button will cause the set to search the tape backward at very high speed while displaying the picture.
Release the **REW** button to return to normal playback.

Pressing the **REW** button in the stop mode winds the tape backward. Then the display **REW** will appear on the screen.
If you press and hold the **REW** button in this mode, the searching picture will appear. This enables you to see what is on the tape. To return to the REW mode, release the **REW** button.

Note : *Sound is automatically muted during these operations.*
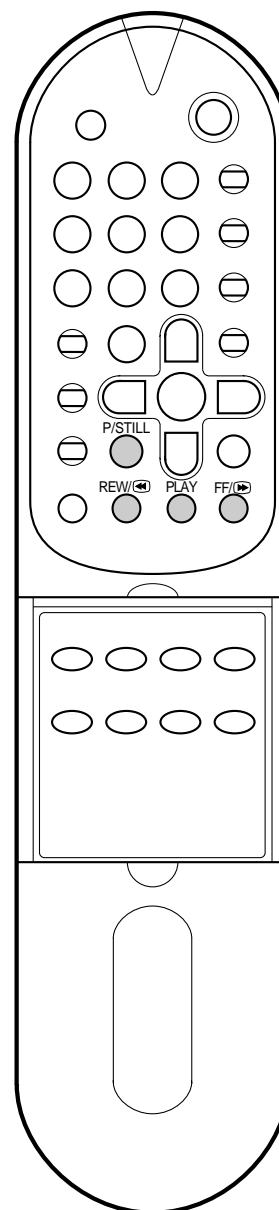
VCR operation

Clock/counter selection

Each time the **CLOCK/COUNT** button is pressed, the current time and the tape counter appears alternately.
The tape counter displays the tape travel time in hours, minutes and seconds during recording and playback.

Note : To reset the counter to **M 0:00:00**, press the **RESET** button.

Memory stop

The memory stop makes it easy to return to a particular spot on the tape after recording or playback. The tape automatically stops when the counter reaches **M 0:00:00**.

1. Start recording or playback.
2. Press the **OK** or **DISPLAY** button twice to keep on displaying the current time or the tape counter.
3. Press the **CLOCK/COUNT** button to display the tape counter.
4. Press the **RESET** button at the point you want to review. The counter displays **M 0:00:00**.
5. Press the **STOP** button when you finish recording or playing the tape.
6. Press the **REW** button. The tape stops at the point **M 0:00:00**.
7. Press the **PLAY** button to play back the tape.

VHS Index Search System (VISS)

VISS signal marks on the tape let you scan through the start of different programmes or search for a specific section of the tape.

Automatic VISS signal mark
A VISS signal is automatically marked on the tape whenever recording starts. The display **VISS MARK** will appear.

Searching a particular VISS mark
1. Press the **VISS** button during playback. The display **VISS 00** will appear on the screen.
2. Enter two digits with the NUMBER buttons to search for a specific section of the tape.
3. Press the **REW** button to search previous recorded programmes. Or press the **FF** button to search programmes further ahead.

When the specific section has been found, the tape plays back at normal speed.

Scanning each VISS mark
1. Press the **VISS** button during playback.
2. Press the **REW** or **FF** button.
   The tape rewinds or advances rapidly to the next marked signal. Then the tape plays back for about 5 seconds.
3. At the desired section, press the **PLAY** button to play back at normal speed.
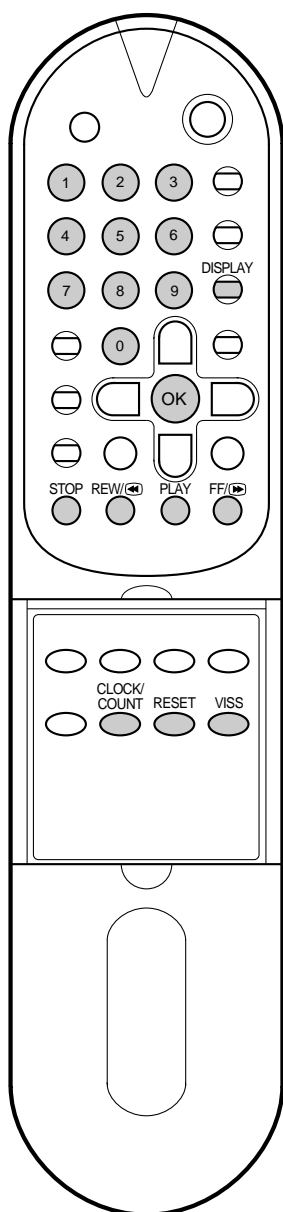
Recording

Manual recording

This is the function used to record a TV programme or signal from external equipment onto a video cassette tape. The set cannot record any programme in the NTSC system as the NTSC system is only for playback.

1. Insert a tape with a safety tab into the cassette compartment.
2. Press the **REC/ITR** button for a few seconds until the display **REC** appears on the screen. The REC/ITR indicator will illuminate.
3. When the desired recording is completed, press the **STOP** button. If the tape reaches the end before you press the **STOP** button, the set automatically stops, rewinds to the beginning and ejects the tape.

Note :
a. If you try to insert a tape without a safety tab, it will be automatically ejected to prevent accidental erasure. If you want to use the tape without the safety tab, stick a small piece of tape over the safety tab hole.
*b. If you don't wish to monitor while recording, press the **MONITOR ON/OFF** button.*

WARNING
Unauthorised recording of copyrighted programmes, films, video tape and other materials may infringe upon the right of copyright owners and be contrary to copyright laws.

Instant timer recording (ITR)

This function is convenient when you want to start recording immediately without going through the entire timer setting procedure. You don't have to set the time to use this function.

1. Insert a tape with a safety tab.
2. Press the **REC/ITR** button for a few seconds until the display **REC** will appear.
3. Press the **REC/ITR** button again. The display **ITR 0:00** will appear.
4. Repeatedly press the **REC/ITR** button to set the recording length, which appears on the screen. You can select up to 9 hours at 30-minute intervals.

After recording for the preset time, the set switches to standby.

To cancel the ITR function, press the **REC/ITR** button until the display **ITR 0:00** appears.
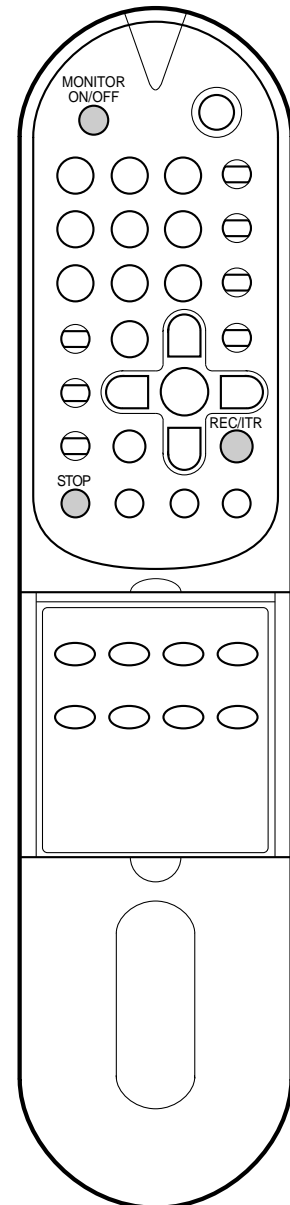
Recording

```
Timer programme

  E Date  Start Stop  PR
1 - --/-- --:-- --:-- --
2 - --/-- --:-- --:-- --
3 - --/-- --:-- --:-- --
4 - --/-- --:-- --:-- --
5 - --/-- --:-- --:-- --
Use:PR+-,0-9,CLR
End:OK
```
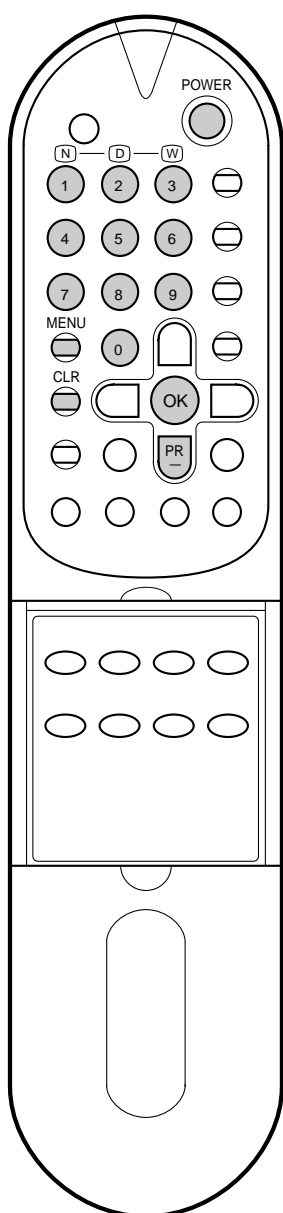
Timer programme setting

You can programme the set to start and end recording while you are away.

Up to 5 recordings within one year can be programmed at the same time.

1. Repeatedly press the **MENU** button on the remote control handset to select MENU 2.
2. Press the '**1**' button for normal programme, the '**2**' button for daily programme or the '**3**' button for weekly programme.

   Normal programme : For recording TV programmes on a single day.

   Daily programme : For recording TV programmes at the same time each day of the week from Monday to Friday.

   Weekly programme : For recording TV programmes at the same time on the same day each week.
3. Enter two digits for the day and two digits for the month, with the NUMBER buttons, to select the start date.
4. Enter two digits for the hour and two digits for the minute, with the NUMBER buttons, to select the start time.
5. Enter two digits for the hour and two digits for the minute, with the NUMBER buttons, to select the stop time.
6. Press the NUMBER buttons to select the TV programme to be recorded.
7. To enter additional programmes, repeat steps 2 to 6 after pressing the **PR-** button.
8. Press the **OK** button. The on screen menu will disappear.

After you finish programming, insert a tape with a safety tab and press the **POWER** button to switch to standby mode. The timer standby indicator will illuminate.

Note :

a. *If you accidently press an incorrect digit, press the **CLR** button and enter the correct digit.*
b. *If you set the start and stop time that have already past, the display **Past time prog.** will appear for a few seconds.*
c. *If the clock has not yet been set, when you try to set timer programme the display **Please set the clock !** will appear. Set the time and date before proceeding.*
d. *Select the programme number stored a pay TV station if you want to record a pay TV station with this function.*

Other functions

Picture adjustment

You can adjust picture contrast, brightness, colour intensity, sharpness and tint (NTSC AV only) to the levels you prefer.

1. Press the **PICTURE** button or the **MENU** button on the front panel. The **Picture set** mode will appear.

```
Picture set

    Standard      On
    Contrast      50
    Brightness    32
    Colour        32
    Sharpness     32

Use:PR+-,VOL+-
End:OK
```

2. Press the **PR+/-** button to select the desired picture item.
3. Press the **VOL+/-** button to make appropriate adjustments on the sub menu.
4. Wait for about a second after adjusting. The **Picture set** mode will appear again.
5. Repeat steps 2 to 4 to adjust another picture item.
6. Press the **OK** or **PICTURE** button. The on screen menu will disappear.

If you want to select the standard picture, select **Standard On** with the **PR+/-** and **VOL+/-** button in the **Picture set** mode.
The **Standard** picture is programmed for good picture reproduction at the factory and cannot be changed.

Colour system setting

You can adjust the colour system. Under normal circumstances, select **AUTO**. If necessary (if input signal is weak), change the colour system by using the instructions below.

1. Press the **SYSTEM** button. The **System** mode will appear.

```
System   AUTO
         PAL
         NTSC PB
```

2. Repeatedly press the **SYSTEM** button to select the correct system.

*Note : **NTSC PB** is for playing back NTSC tape only. You cannot record NTSC signals.*
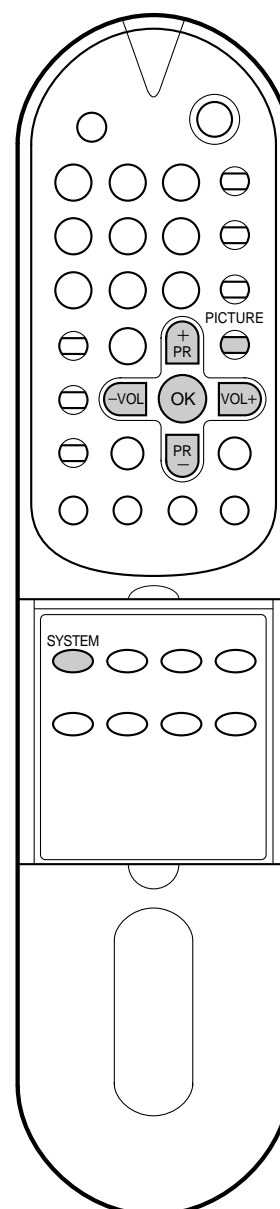
Other functions

Display

You can verify programme number, system, time and date by pressing the **DISPLAY** button. The on screen display disappears after a few seconds.

If you press this button twice, the current time or tape counter is displayed continuously.

Note : *When the video cassette tape is inserted, VCR operating mode is displayed and the time and date can be replaced with the tape counter by pressing the **CLOCK/COUNT** button.*

Sleep timer

You don't have to remember to switch the set off before you go to sleep. The sleep timer automatically switches the set to standby after the preset time elapses.

To select the number of minutes, repeatedly press the **SLEEP** button. **---** will appear on the screen, followed by **120**, **90**, **60**, **30**, **20** and **10**.

The timer begins to count down from the number of minutes selected.

A 5 second count down will appear on the screen just before the set automatically shuts off.

Note :
*a. To view the remaining sleep time, press the **SLEEP** button once.*
*b. To cancel the sleep time, repeatedly press the **SLEEP** button until the display **Sleep timer** --- appears.*
c. When you switch the set off, the set releases the preset sleep time.

Child lock

The set can be set so that the remote control handset is needed to control it.
This feature can be used to prevent unauthorised viewing.

Press the **C/LOCK** button for a few seconds until the display **Child lock Off** changes to **Child lock On**. In this mode, the standby indicator will blink.

To cancel this mode, press the **C/LOCK** button for a few seconds until the display **Child lock Off** appears.

With the child lock on, the display **Child lock On** appears on the screen if any button on the front panel is pressed. If the set is switched off at the main power switch, when it is switched back on it will switch to standby mode. To switch on fully it is necessary to use the remote control handset.

Note :
*a. With the child lock on, a video cassette tape cannot be inserted. When you try to insert it, the display **Child lock On** will appear.*
b. This function operates continuously, even if the power has been switched off.
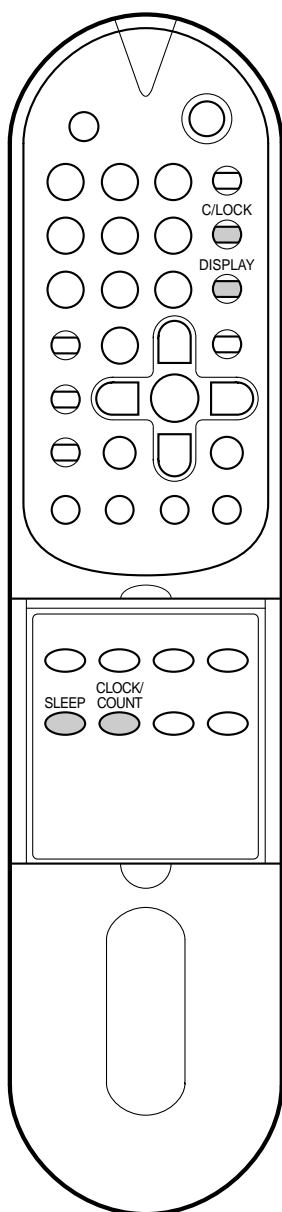
Other functions

Blue background

```
Special functions
Blue back        Off
Noise reduction  Off
Auto sleep       Off
Auto repeat      Off
Language      English

Use:PR+-,VOL+-
End:OK
```

With this function the screen turns blue if the broadcast signal is weak or not present.

1. Repeatedly press the **MENU** button to select MENU 3.
2. Press the **PR+/-** button to select **Blue back**.
3. Press the **VOL+/-** button to select **On**.
4. Press the **OK** button. The on screen menu will disappear.

Noise reduction

This function reduces picture noise during viewing.

1. Repeatedly press the **MENU** button to select MENU 3.
2. Press the **PR+/-** button to select **Noise reduction**.
3. Press the **VOL+/-** button to select **On**.
4. Press the **OK** button. The on screen menu will disappear.

Auto sleep

If you select **Auto sleep On** the set automatically switches itself to standby mode approximately 10 minutes after a TV station stops broadcasting.

1. Repeatedly press the **MENU** button to select MENU 3.
2. Press the **PR+/-** button to select **Auto sleep**.
3. Press the **VOL+/-** button to select **On**.
4. Press the **OK** button. The on screen menu will disappear.

Auto repeat

To play back the tape repeatedly, select **Auto repeat On**.

1. Repeatedly press the **MENU** button to select MENU 3.
2. Press the **PR+/-** button to select **Auto repeat**.
3. Press the **VOL+/-** button to select **On**.
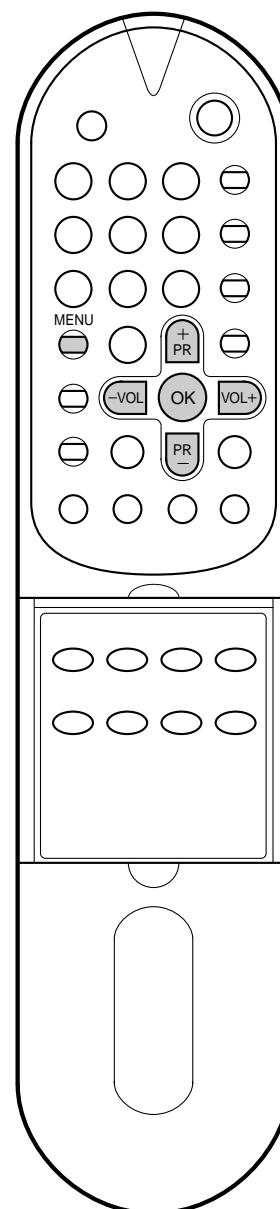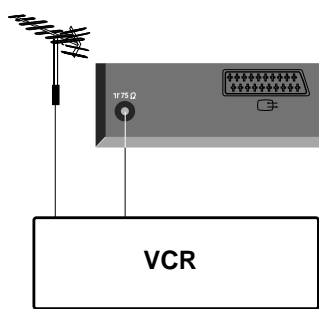4. Press the **OK** button. The on screen menu will disappear.

Connection of external equipment

You can connect additional equipment, such as an external VCR, a camcorder, a pay TV decoder, etc. to your set.

Aerial socket

1. Connect the RF out socket of the external VCR to the aerial socket on the back of the set.
2. Connect the aerial cable to the RF aerial in socket of the external VCR.
3. Store the external VCR channel on a desired programme number using the 'Manual programme tuning' section.
4. Select the programme number where the external VCR channel is stored.
5. Press the **PLAY** button on the external VCR.
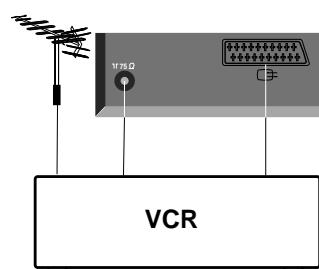
Euro scart socket

1. Connect the Euro scart socket of the external VCR to the Euro scart socket of the set.
2. Press the **PLAY** button on the external VCR.
   If your external VCR outputs a switching voltage the set will switch to AV mode automatically.
   Otherwise, switch to the AV mode (Programme number 0). The external VCR playback picture appears on the screen.

   You can dub the recording of the external VCR by pressing the **REC/ITR** button on the set or remote control handset.

Note : To receive or record a pay TV station, connect the decoder to the Euro scart socket of the set and select ***Auto AV On*** in the stored programme number.

Headphone socket

Insert the headphone plug(¥ Õ 3.5mm) to the headphone socket on the left side of the set. You can listen to the sound from the headphones and no sound is heard from the speaker of the set.

Troubleshooting check list Contents

IN TV/VCR RECEPTION

Symptoms	Check Points
No picture or sound	Make sure the unit is plugged into a working AC power socket. Check that the power is switched to 'ON'. Check aerial is properly connected along with any other connections. If an indoor aerial is used, see it is pointing in the right direction.
Picture OK; sound poor	Check aerial is properly connected, If an indoor aerial is used, see it is pointing in the right direction. Adjust the volume.
Sound OK; no picture	Try another channel: it might be a transmitter fault. Adjust the picture.
Picture faint or blurred	Check aerial is properly connected. If an indoor aerial is used, see it is pointing in the right direction. Adjust the CONTRAST control.
Picture rolls vertically	Check aerial is properly connected. If an indoor aerial is used, see it is pointing in the right direction.
Ghosts or multiple images	Check aerial is properly connected. If an indoor aerial is used, see it is pointing in the right direction. Suspect reception interference and fit a directional or external aerial.
Wrong colour or no colour	Adjust the COLOUR control. With NTSC-AV, try adjusting the TINT control.
No response to pressing front control buttons	Press the buttons again carefully. If no response, unplug the set from the mains socket, and then plug it in and try again.
No response to remote control	Check the batteries are fitted in right way round. Replace the batteries.

IN TV/VCR OPERATION

Symptoms	Check Points
The tape insertion is impossible	Insert the tape with the window side up and the safety tab facing you. See that there isn't a tape in the machine already.
Nothing happens when buttons are pressed	There is something programmed into the memory: cancel the set 'STOP' time.
Auto play function won't work	Check that the safety tab on the video cassette tape is removed.
TV programmes cannot be recorded	Have you tuned the set's channels properly? See that the safety tab on the video cassette is still intact. Check the aerial and its connections.
Timer recording can't be done	Set the recording start/stop time correctly. Has there been a power supply interruption before or during Timer recording? If so, the timer will have lost details of the instructions you gave it and it will not function. Try reprogramming again.
There is no picture in playback: the playback picture is of poor quality or is streaky	Check that the video cassette tape has been recorded on. Adjust the Tracking Control (This should remove 'streaks')
VCR does not operate	Reconnect the mains plug to a power socket: reset programmes (problem caused by a power interruption). Check that you set the proper 'START' time.
Video cassette tape jammed in its slot	If the tape is inserted the wrong way it may become stuck. Wait a few seconds to see if the machine will automatically eject it. If it does not, and the machine stops working, on no account try free it but contact your local dealer.

MV-55A SCHEMATIC DIAGRAM (PAL/SECAM/NTSC4.43)

NOTICE

Since this is a basic schematic diagram.
The value of components and some partical
connection are subject to change for improvement.

The components marked ⚠ conform to VDE or IEC guidelines
and are essential for safe operation of the set, while those
marked ⚠ are required for correct operation. Use specified
parts only when replacing.

VALUE OF RESISTER, CAPACITOR AND INDUCTOR

1. Resistances are shown in ohm, K = 1,000   M = 1,000,000.
2. Unless otherwise noted in schematic, all capacitor values less
   than 1 are expresses in mfd and the values more than 1 in pF
3. Unless otherwise noted in schematic, all coil values more
   than 1 are expressed in uH and the values less than 1 in H.

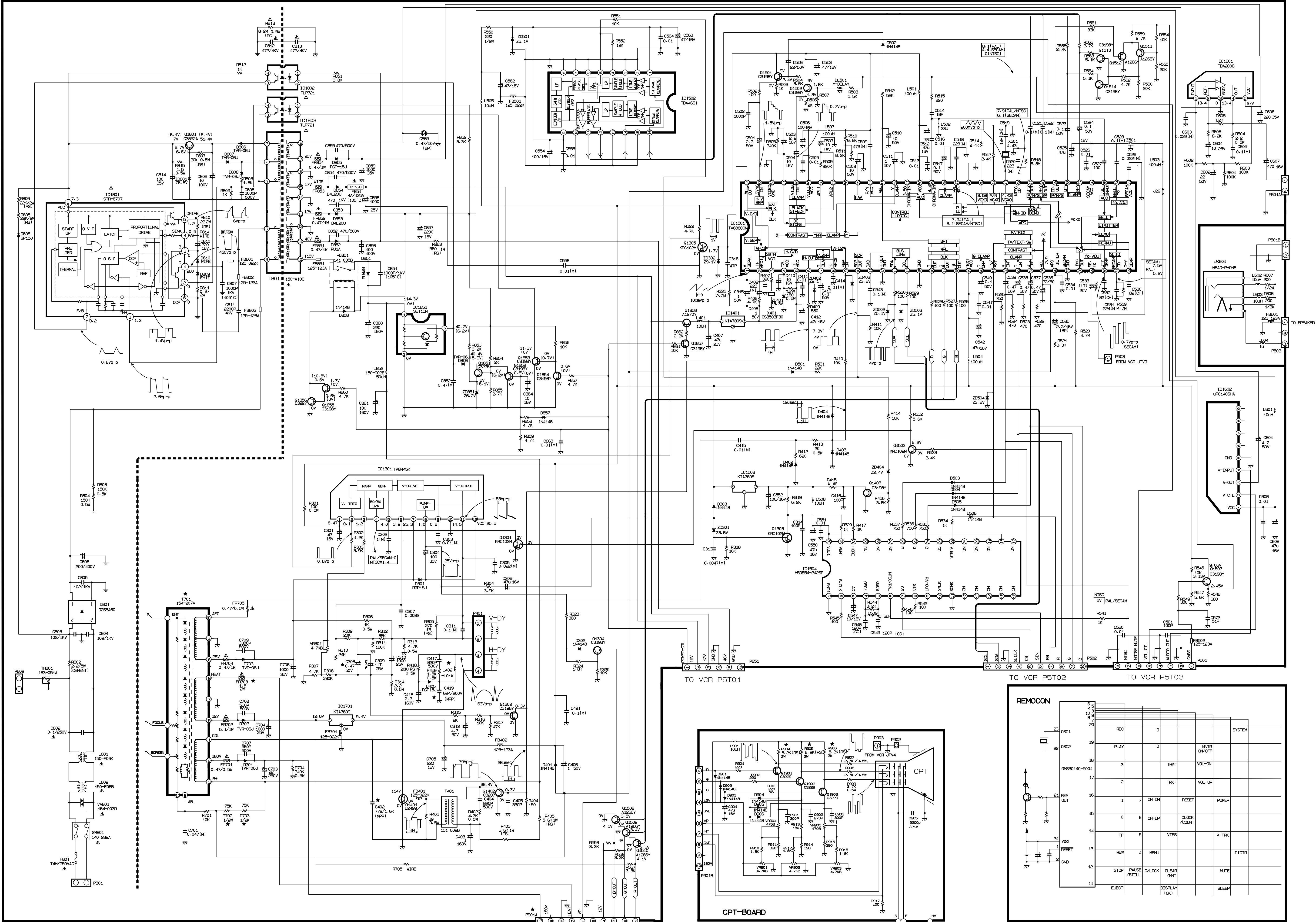**OBSERVATION OF VOLTAGES AND WAVEFORMS**

1. Voltages read with VTVM from point shown to chassis
   ground, line voltages 220 Volts, colour bar signal
2. Voltages reading may very ±20%.
3. The schematic shown is representative only.
4. All waveforms are taken using a wide band oscilloscope
   and a low capacity probe.
5. Check FINE TUNING, AGC, BRIGHTNESS, CONTRAST and
   COLOUR controls for best picture, make sure that CONTRAST
   and COLOUR controls are in mid position and BRIGHTNESS
   controls is almost in maximum position.
6. Waveforms are taken using a standard colour bar signal.

★ TABLE OF INCH CONVERSION

NO	CIRCUIT NO	INCH 14"	INCH 20"	REMARK
1	R702	75K	56K	RESISTOR-FIX 1/2W
2	R703	75K	56K	RESISTOR-FIX 1/2W
3	R604	8.2K	10K	RESISTOR-FIX 2W
4	R905	8.2K	10K	RESISTOR-FIX 2W
5	R906	8.2K	10K	RESISTOR-FIX 2W
6	FR703	1.6	1.0	RESISTOR-FUS 2W
7	C308	0.47	0.1	CAPACITOR-ELEC 50V
8	C402	772	862	CAPACITOR-MPP 1.6KV
9	C419	624	364	CAPACITOR-MPP 200V
10	L402	.L01M	.L02C	COIL-LINEARITY (100~)
11	T701	~207A	~207D	FBT (54~)
12	P901A/B	~010D	~010E	CONNECTOR ASSY (10P)
13	P601A/B	~602B	~602C	CONNECTOR ASSY (2P)
14		~100F	~226D	CPT SOCKET (3B1~)
15		~P68A	~P68B	PCB (111~)
16				
17				
18				

● TABLE OF SYSTEM CONNERSION

NO	CIRCUIT NO	SYSTEM KLK48 MODEL	SYSTEM KLK4Y MODEL	REMARK
1	R519	4.7M	~	RESISTOR-FIX 1/6W
2	C525	47	~	CAPACITOR-ELEC 16V
3	C526	10000P	~	CAPACITOR-TUBULAR 16V
4	C527	100P	~	CAPACITOR-TUBULAR 50V
5	C528	0.1	~	CAPACITOR-POLY 50V
6	C529	0.032	~	CAPACITOR-POLY 100V
7	C530	82	~	CAPACITOR-CERAM 50V
8	C531	0.22	~	CAPACITOR-MYLAR 100V
9	C532	82	~	CAPACITOR-CERAM 50V
10	C533	1	~	CAPACITOR-TANTAL 25V
11	L503	100u	~	INDUCTOR-AXIAL
12	Z501	103	~	FILTER-EMI 100V
13	J29	TIN WIRE	~	WIRE- TIN HDC 0-6H
14	P903	1P	~	PIN PLUG 1P
15	P903	1P	~	PIN PLUG 1P

P/N: 484-922A

DATE: 01. 16. 1996