

TX-28/25XD3F Operating Instruction



Panasonic



TX-28XD3F

TX-25XD3F

Quintrix



**TOP
TEXT**

Please read these instructions completely before use and retain them for future reference.

Dear Panasonic Customer,

Welcome to the Panasonic family of customers. We hope that you have many years of enjoyment from your new colour television. This is a very sophisticated TV; the best way to understand the features is to read this book thoroughly, before operating the set.



This television has a low power consumption making it very cost effective to run. To this end, the standby power consumption is merely 1 watt.

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Warnings and Precautions

- This TV set is designed to operate on A.C. 220 – 240V, 50Hz.
- To prevent damage which might result in electric shock or fire, do not expose this TV set to rain or excessive moisture.
- **WARNING : HIGH VOLTAGE !!!**
Do not remove the rear cover as live parts are accessible when it is removed. There are no user serviceable parts inside.
- Avoid exposing the TV set to direct sunlight and other sources of heat.
- Remove the mains plug from the wall socket when the TV set is not used for a prolonged period of time.
- **CABINET AND PICTURE TUBE CARE**
Remove the mains plug from the wall socket. The cabinet and picture tube can be cleaned with a soft cloth moistened with mild detergent and water. Do not use solutions containing benzol or petroleum. TV sets can produce static electricity, care must be taken whenever touching the TV screen.
- Adequate ventilation is essential to prevent failure of electrical components, we recommend that a gap of at least 5cm is left all around this television receiver even when it is placed inside a cabinet or between shelves.

General Information

Service

Before requesting service, please refer to the trouble-shooting guide on page 22 to determine the symptoms. To obtain service please contact your local Panasonic dealer quoting the model number and serial number (both are located at the rear of the TV).

TV. Games / Home Computers

Extended use of TV games or home computers with any television set can cause a permanent 'shadow' on the screen. This type of irreversible picture tube damage, can be limited by observing the following points:

- Reduce the brightness and contrast levels to a minimum viewing level.
- Do not operate the television set for a continuous period of time while using TV games or home computers.
- This type of picture tube damage, is not an operating defect, and as such is not covered by the Panasonic warranty.

Last Position Memory

Certain functions have a last position memory, i.e. the setting at the time of switch-off will be the setting used when the receiver is switched on again: –

Programme	Tint (M.NTSC / NTSC only)
AV Position	Contrast
Volume	Sharpness
Stereo mode	Aspect
Bass	Standby
Treble	Artificial Intelligence (AI)
Balance	Music / Speech
Colour	AV2 OUT selection
Brightness	Status
Volume Correction	OSD Language
Text Language	AV Colour System
Ambience	

Sleep Feature

If the set is not switched off when the TV station stops transmitting at the end of the evening, it will automatically go to standby mode after 30 minutes. This function will not operate when the TV is in AV mode.

Features and Accessories

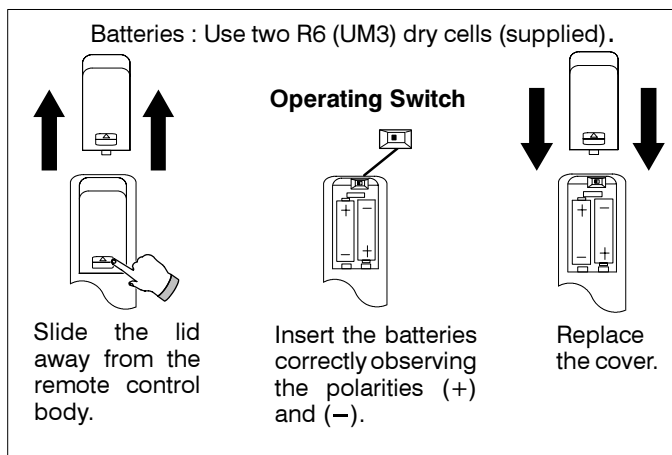
- Auto-Setup (ATP)
- Artificial Intelligence
- NICAM Stereo Sound System
- FASTEXT Teletext
- On Screen Displays
- AV In / Out (Rear) / AV In (Front)
- S-Video Input

- Multi-function Remote Control (TV / Teletext / VCR (Panasonic))
- 100 Position Tuning System (1 – 99 plus VCR)
- AV NTSC Reception

Please check and identify the following supplied accessories.

- Remote Control Transmitter (EUR51920)
- Batteries for the Remote Control Transmitter (2 x R6 (UM3) size)

Battery Installation and Replacement



Operating Switch

If any difficulty is encountered when using this remote control with Panasonic video tape recorders please check the operation of the video recorder with the operating switch set at position one and again with the switch set at position two.

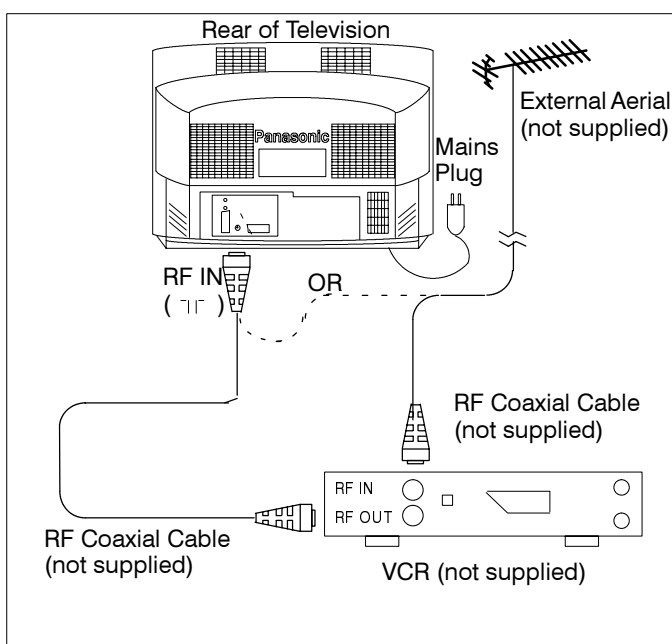
Precautions

- If experiencing any remote control malfunctions or reduction in operating distance please check and replace batteries and clean indicator window.
- Do not use an old battery with a new one.
- Ensure the batteries are inserted with the correct polarity.
- Do not use rechargeable (Ni-Cad) batteries.
- Do not mix battery types, i.e. Alkaline and Manganese.
- Remove exhausted batteries and dispose of them immediately.

Please contribute to environmental protection

- Used batteries and rechargeable batteries do not belong in the normal household rubbish.
- Please contact your local community office for information regarding special collection places where you can dispose of the used batteries.
- Please enquire if used batteries, with the recycling symbol, may be handed back to the shop at which they were purchased.

Aerial Connection



Aerial connection

Connect your Aerial to the RF IN socket at the rear of the TV.

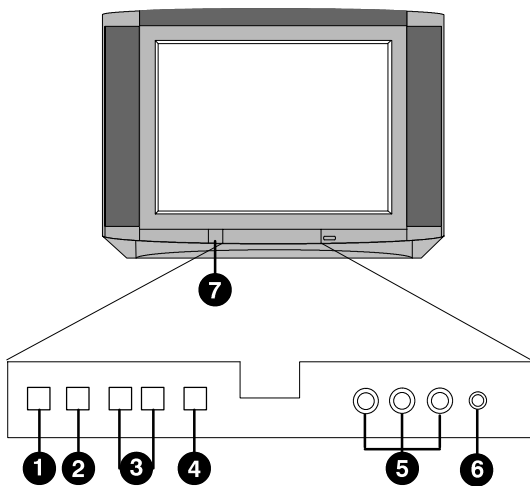
Aerial connection via a VCR

If a VCR is to be connected, connect your Aerial to the RF IN socket at the rear of the VCR then connect an RF coaxial cable between the VCR RF OUT socket and the TV RF IN socket.

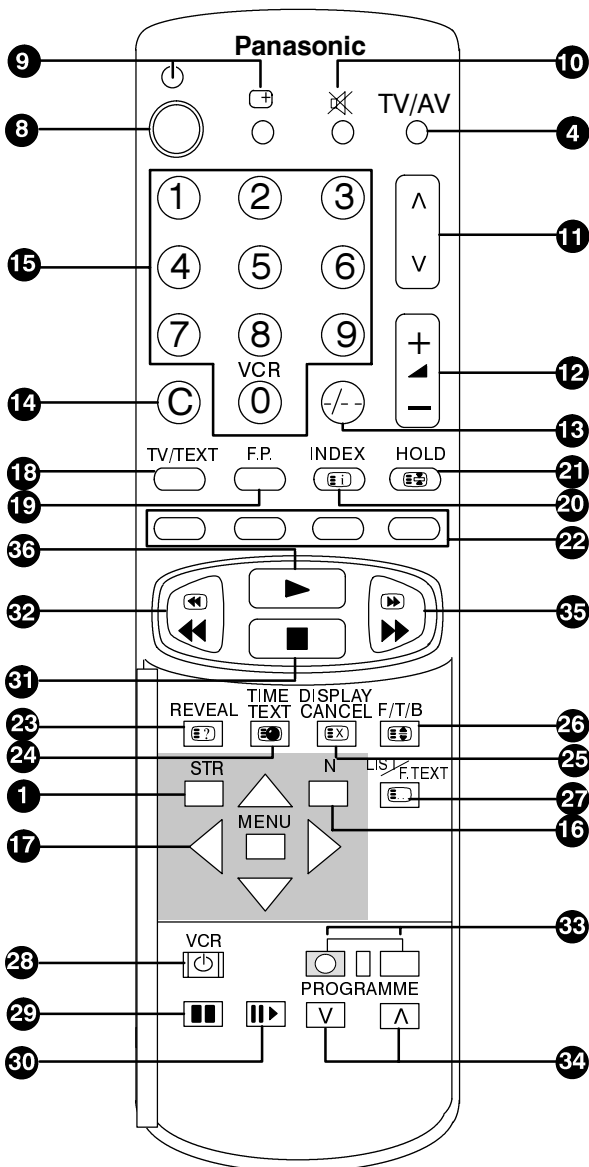
For information on how to connect a VCR to this TV using Audio / Video cables please refer to pages 20 and 21.

Location of Controls and connection terminals

Front of Television



Remote Control

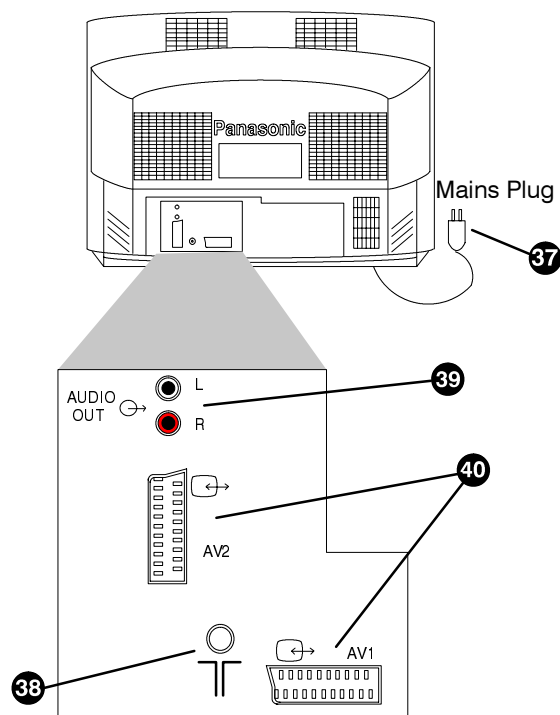


- 1 Store (STR)**
Used to store the channel settings in Tuning Mode or to store the normal settings.
- 2 Function Select (F)**
Displays the On Screen Display functions, use repeatedly to select from the available functions.
- 3**

∨	∧
○	○
-	+
- 4 TV / AV**
Switches between Television and Audio/Video operation.
- 5 Headphones Terminal**
For the connection of headphones with a 3.5mm jack plug.
- 6 RCA Audio / Video sockets**
For the connection of Audio / Video equipment e.g. VCR.
- 7 Mains On / Off**
Switches the TV on or off.
- 8 Standby**
Press to switch the TV on or off.
- 9 Status**
Displays the channel number, programme position, time and teletext station name.
- 10 Sound Mute**
Press to mute or restore the sound.
Sound mute will not mute the headphone volume.
- 11 Programme Up / Down**
Increases or decreases the programme position by one.
- 12 + / -**
Increases or decreases the volume.
- 13 Programme position 10 – 99**
Selects programme positions from 10 to 99.
- 14 Direct channel access**
Allows direct access to local channels via the 0 – 9 keys.
- 15 0 – 9 keys**
Selects programme numbers or teletext pages.
- 16 Normalisation (N)**
Recalls the levels previously set with the store (STR) key.
- 17 Menu and cursor keys**
Provides access to the On Screen Display menu system.
- 18 TV / Teletext**
Switches between Teletext and normal TV operation.
- 19 Favourite Page (F.P.)**
Press to display the favourite page for the current programme position.

Location of Controls and connection terminals

- 20 Index**
Displays the index page for the current teletext station.
- 21 Hold**
Allows the current page to be held.
- 22 Coloured keys (Red / Green / Yellow / Blue)**
To enable selection of topics in TOP's/FASTEXT operation and page numbers in LIST operation.
- 23 Reveal**
Reveals hidden answers to Teletext quizzes.
- 24 Time Text**
Allows selection of any sub—pages within teletext pages.
- 25 Display Cancel**
Removes the Teletext page from screen, whilst awaiting an update or newsflash.
- 26 Full / Top / Bottom**
Switches between the Top, Bottom and Full page display.
- 27 List / F.Text**
Switches between TOP, FASTEXT and LIST modes.
- 28 VCR Standby**
Sets the VCR into standby.
- 29 Pause / Still**
Pauses the picture.
- 30 Still Advance**
Advances the picture frame by frame in Pause / Still mode.
- 31 Stop**
Stops the tape.
- 32 Rewind / Review**
Rewind the tape or review when in play mode.
- 33 Record**
Press to record.
- 34 VCR Programme up / down**
Changes programme position by one.
- 35 Fast Forward / Cue**
Forward the tape or cue the picture.
- 36 Play**
Playback the tape.
- 37 Mains Plug**
The mains connection is made with this plug (220 – 240V, 50Hz).
- 38 Aerial Socket (RF IN)**
The aerial connects to this socket.
- 39 RCA Audio Out terminals**
For connection to external audio equipment, enabling the sound to be heard through the audio equipments speakers.
- 40 21 pin SCART terminals**
For the connection of VCR's and other equipment with a SCART terminal.

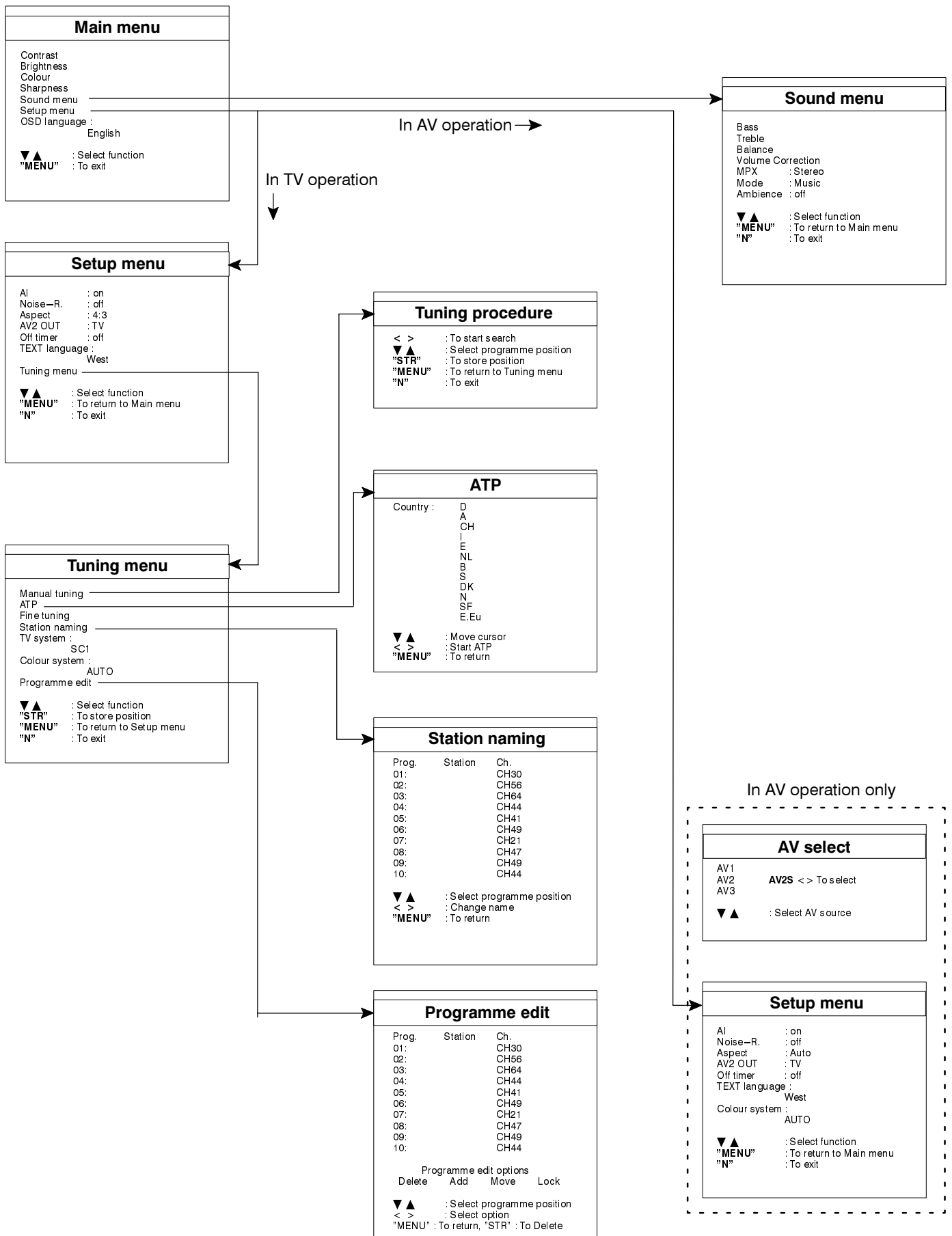


40 21 pin SCART terminals

AV1		AV2	
1	Audio out (R)	1	Audio out (R)
2	Audio in (R)	2	Audio in (R)
3	Audio out (L)	3	Audio out (L)
4	Audio earth	4	Audio earth
5	Blue earth	5	Blue earth
6	Audio in (L)	6	Audio in (L)
7	Blue in	7	No connection
8	Status CVBS	8	Status CVBS
9	Green earth	9	Green earth
10	No connection	10	No connection
11	Green in	11	No connection
12	No connection	12	No connection
13	Red earth	13	Red earth
14	Ground	14	Ground
15	Red in	15	S.C—in
16	Status RGB	16	No connection
17	CVBS earth	17	CVBS earth
18	RGB Status earth	18	RGB Status earth
19	CVBS out (video)	19	CVBS out (video)
20	CVBS in (video)	20	CVBS in (S—Y)
21	Socket earth	21	Socket earth

Layout of On Screen Displays

The main functions of this television receiver are set up using on-screen menus, which are contained in the menu structure starting from the Main menu as shown below.

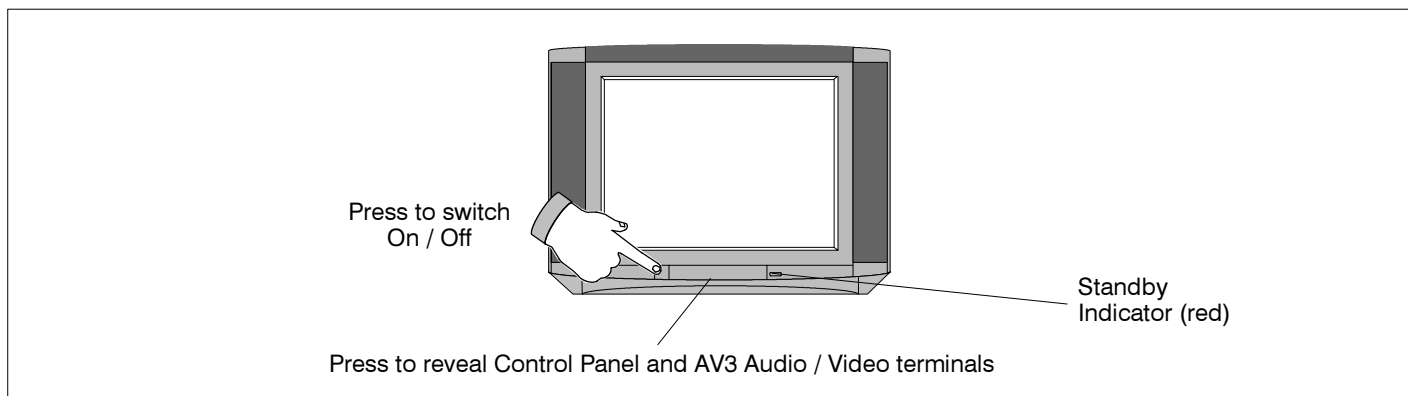


Mains On / Off

To switch ON press the Power on / off button situated on the front of the TV.

If the power to this TV is interrupted whilst it is switched on, when power is returned the TV will automatically switch back on.

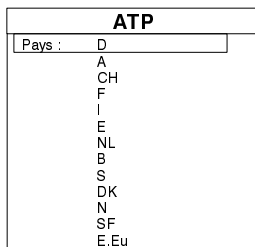
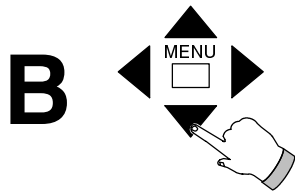
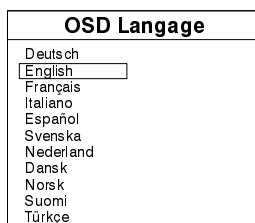
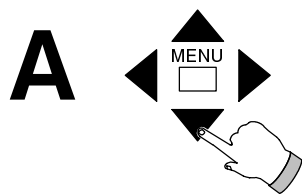
To switch OFF press the Power On / Off button again.



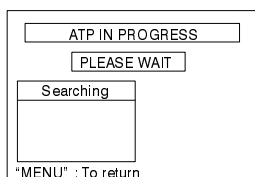
Tuning Procedure

This TV is capable of receiving the following transmission standards : PAL B, G, H, PAL-60, SECAM B, G, L/L' and M-NTSC. When first switched on, the "ATP" menu is displayed, just select the required language and country to proceed.

Auto Tuner Presetting (ATP)



C



D



Before starting check that the aerial is connected.

Press ▼▲ to select desired language.

Press ◀▶ to proceed.

Press ▼▲ to select the desired country, this selects the required channel names for each respective country :

D	–	Germany	B, G
A	–	Austria	B, G
CH	–	Switzerland	PAL B, G and SECAM L/L'
F	–	France	SECAM L/L'
I	–	Italy	B, G
E	–	Spain	B, G
NL	–	Holland	B, G
B	–	Belgium	PAL B, G and SECAM L/L'
S	–	Sweden	B, G
DK	–	Denmark	B, G
N	–	Norway	B, G
SF	–	Finland	B, G
E. Eu	–	East Europe	D, K / B, G

Press ◀▶ to start "ATP".

This searches for the channels, storing them when found and adding the channel name.

When all available channels have been stored, they are sorted into order and allocated programme position numbers.

To stop "ATP" at any time press **MENU**.

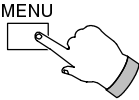
The TV will display the currently selected channel.

- When ATP is in progress, the colour system is preset to AUTO, this means that when a PAL, SECAM or M.NTSC transmission is received the correct picture will automatically be displayed on screen.
- To activate ATP again, first perform Tuning menu access (refer to page 8), selecting ATP when in the Tuning menu will return you to Step B of ATP operation detailed above.
- The sorting order depends on the TV signal, the broadcast system and reception conditions. If the order is not to your preference it can be re-arranged using the programme edit feature as explained on page 11.

Tuning Procedure

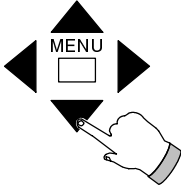
Tuning Menu access

The tuning menu allows access to re-tune, rename or reorder programmes and also alter their stored standards. To access the tuning menu proceed as follows :

A 

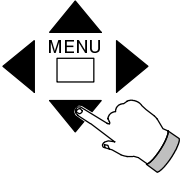
Main menu	
Contrast	< > To adjust
Brightness	
Colour	
Sharpness	
Sound menu	
Setup menu	
OSD language :	English

Press **MENU**.
The screen will display the main menu.

B 

Main menu	
Contrast	
Brightness	
Colour	
Sharpness	
Sound menu	
Setup menu	< > To access
OSD language :	English

Press **▼▲** to move to "Setup menu".
Press **◀▶** to access "Setup menu".

C 

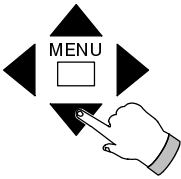
Setup menu	
AI	: on
Noise-R.	: off
Aspect	: 4:3
AV2 OUT	: TV
Off timer	: off
TEXT language :	West
Tuning menu	< > To access

Press **▼▲** to move to "Tuning menu".
Press **◀▶** to access "Tuning menu".

Manual tuning operation

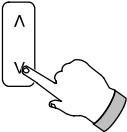
The desired channels can be manually stored using the following method, if the Colour system and Audio system selected are not correct it will be necessary to set them manually as explained in the Colour System and Audio Standard sections following manual tuning.

Remote Control Operation

A 

Tuning menu	
Manual tuning	< > To access
ATP	
Fine tuning	
Station naming	
TV system	: SC1
Colour system :	AUTO
Programme edit	

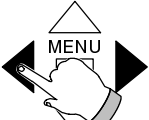
Perform "Tuning menu access" to display the "Tuning menu".
Press **▼▲** to move to "Manual tuning".
Press **◀▶** to access "Manual tuning".

B 

Tuning Procedure	
< >	: To start search
▼▲	: Select programme position
"STR"	: To store position
"MENU"	: To return to Tuning menu
"N"	: To exit

Press **▲** to select the desired programme position.

If the local channel numbers are known proceed to Step D.
Position '0' should be used as the VCR channel.

C 

Tuning Procedure	
< >	: To start search
▼▲	: Select programme position
"STR"	: To store position
"MENU"	: To return to Tuning menu
"N"	: To exit

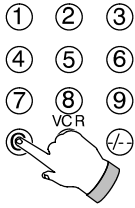
Press **◀▶** to search for the desired channel.
(If a hyperband channel is required, continue tuning past the normal channels).
Now proceed to Step E.

Tuning Procedure

Manual tuning operation

Remote Control Operation

D



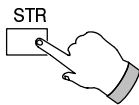
Tuning Procedure	
< >	: To start search
▲ ▼	: Select programme position
"STR"	: To store position
"MENU"	: To return to Tuning menu
"N"	: To exit

Only use this Step if the local channel numbers are known.

Press the 'C' key on the remote control.
(To tune in a hyperband channel press the —/— key)

Enter the channel number within six seconds using the numeric keys (0 – 9).

E



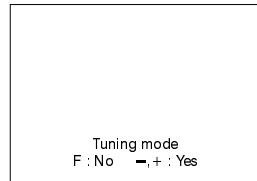
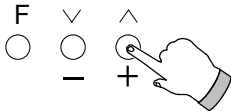
Tuning Procedure	
< >	: To start search
▲ ▼	: Select programme position
"STR"	: To store position
"MENU"	: To return to Tuning menu
"N"	: To exit

Press 'STR' to store the selected channel on the current programme position.

Repeat steps B to E to store other channels, OR press MENU to return to 'Tuning menu', OR press 'N' to return to normal TV operation.

TV Operation (behind Control Panel door)

A



Repeatedly press the 'F' key on the front of the TV until the screen displays 'Tuning mode'.

Press $\begin{matrix} \vee & \wedge \\ \ominus & \oplus \end{matrix}$ to enter 'Tuning mode'.

B

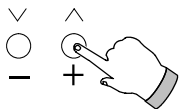


Tuning procedure (Front panel)	
- +	: To start search
"TV/AV"	: Select programme position
"STR"	: To store position
"F"	: To exit

Press 'TV / AV' to select the desired programme position.

Position '0' should be used as the VCR channel.

C



Tuning procedure (Front panel)	
- +	: To start search
"TV/AV"	: Select programme position
"STR"	: To store position
"F"	: To exit

Press $\begin{matrix} \vee & \wedge \\ \ominus & \oplus \end{matrix}$ to search for the desired channel.
(If a hyperband channel is required, continue tuning past the normal channels).

D



Tuning procedure (Front panel)	
- +	: To start search
"TV/AV"	: Select programme position
"STR"	: To store position
"F"	: To exit

Press 'STR' to store the selected channel on the current programme position.

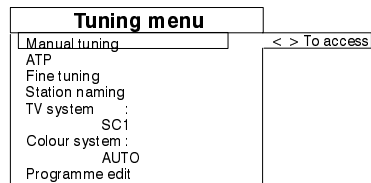
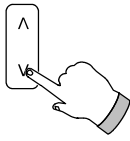
Repeat steps B to D to store other channels, OR Press 'F' key to return to normal TV operation.

Tuning Procedure

Colour System Selection

The colour system is preset to AUTO, this means that when a PAL, SECAM or M.NTSC transmission is received the correct picture will automatically be displayed on screen. If desired, the colour system can be manually set to PAL, SECAM or M.NTSC as follows :

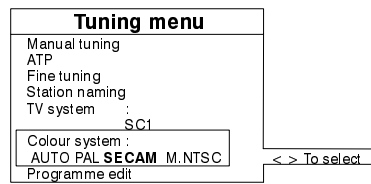
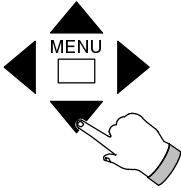
A



Press to select the desired programme position.

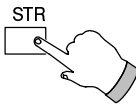
Perform "Tuning menu access" to display the "Tuning menu".

B



Press to move to "Colour system".
Press to select the required Colour System :
AUTO, PAL, SECAM or M.NTSC.

C



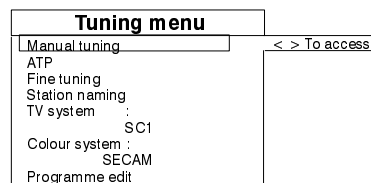
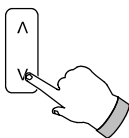
Press **STR** to store the selected Colour System for the current programme position and channel.

Press 'N' to return to normal TV operation.

Audio Standard Selection (TV System)

When the channels are manually tuned in, it may be necessary to set the Audio Standard for each programme position / channel.

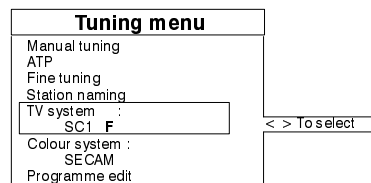
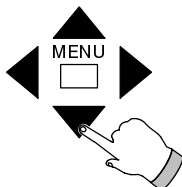
A



Press to select the desired programme position.

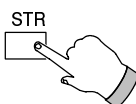
Perform "Tuning menu access" to display the "Tuning menu".

B



Press to move to "TV System".
Press to select the required Audio System :
SC1 : PAL B, G, H / SECAM B, G
F : SECAM L/L'

C



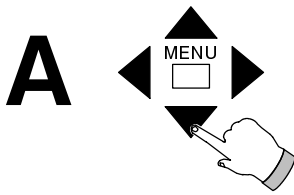
Press **STR** to store the selected Audio System for the current programme position and channel.

Press 'N' to return to normal TV operation.

Tuning Procedure

Station Naming Operation

Each channel may be given an individual name, this enables the channels to be remembered by name as well as programme position number.



Tuning menu	
Manual tuning	
ATP	
Fine tuning	
Station naming	< > To access
TV system	:
Colour system	: F
	: SECAM
Programme edit	

Perform "Tuning menu access" to display the "Tuning menu".

Press **▼▲** to move to "Station naming".
Press **◀▶** to access "Station naming".

Press **▼▲** to select the desired programme position.

Press **◀▶** to change the name.
The first character position is selected.

Press **▼▲** to select desired character.

Press **◀▶** to move to desired character position.

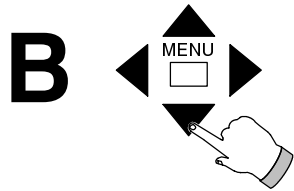
OR

Press **MENU** to revert back to the original name.

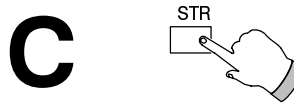
Repeat this Step to complete the required name.

Press **STR** to store the new programme name.

Repeat steps B and C to alter other programme names or press "N" to return to normal TV operation.

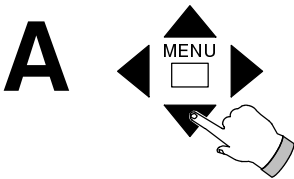


Station naming		
Prog.	Station	Ch.
01:		CH30
02:		CH56
03:		CH56
04:		CH44
05:		CH41
06:		CH49
07:		CH21
08:		CH47
09:		CH49
10:		CH44



Programme Edit Operation

The named programme positions may be moved to another place in the programme order, deleted from the order, new ones placed into the order and locked to prevent access as required.

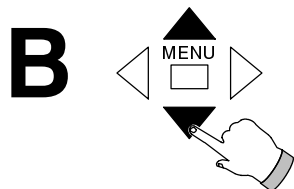


Tuning menu	
Manual tuning	
ATP	
Fine tuning	
Station naming	
TV system	:
Colour system	: F
	: SECAM
Programme edit	< > To access

Perform "Tuning menu access" to display the "Tuning menu".

Press **▼▲** to move to "Programme edit".

Press **◀▶** to access "Programme edit".



Press **▼▲** to select the desired programme position.

It is not possible to alter the VCR programme position ('0').

Press **◀▶** to select "Delete", "Add", "Move" or "Lock".

Delete operation

Press "STR" twice to delete the selected station name and channel from the current programme position.

Add operation

Press "STR" twice to add a blank channel in the current programme position.

To tune—in the channel refer to Manual Tuning operation on page 8.

Move operation

Press "STR", followed by **▼▲** to select the new programme position for the current channel.

Press "STR" to end move operation.

Lock operation

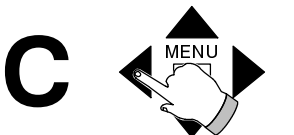
Press "STR" to lock or unlock the current programme position.

When locked, it is not possible to access or display the channel / programme position.

Repeat Steps B and C to alter other programme positions

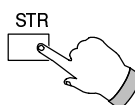
OR

Press "N" to return to normal TV operation.



Programme edit		
Prog.	Station	Ch.
01:		CH30
02:		CH56
03:		CH56
04:		CH44
05:		CH41
06:		CH49
07:		CH21
08:		CH47
09:		CH49
10:		CH44

Programme edit options			
Delete	Add	Move	Lock

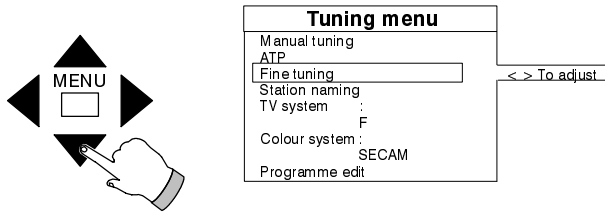


Tuning Procedure

Certain functions will display a coloured bar on screen for a short period of time.

Fine Tuning Operation

If a channel that has been tuned—in is slightly off station, i.e. poor picture, it may be possible to improve it by using Fine Tune to finely adjust it.



Perform “Tuning menu access” to display the “Tuning menu”.

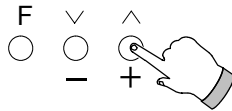
Press \blacktriangledown \blacktriangle to move to “Fine tuning”.

Press \blacktriangleleft \blacktriangleright to access and alter the setting.

Press ‘STR’ to store the setting for the current channel.

Press ‘N’ to return to normal TV operation.

Operation of Controls

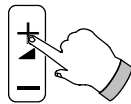


Function select (F) (TV Operation)

Press **F** to select the required function :

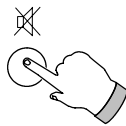
Volume, Contrast, Brightness, Colour, Sharpness, Bass, Treble, Balance or Tuning mode.

Press + or – to adjust.



Volume (Remote Control Operation)

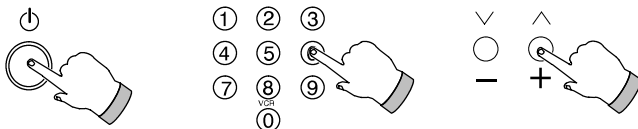
Press + or – to adjust.



Sound Mute

Press to mute or restore the sound.

The sound mute function has no effect on the volume of sound heard from the headphones socket.



Standby mode

Press to switch the TV. off for a period of time.

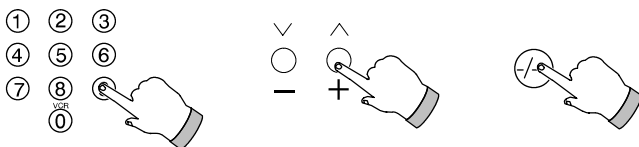
To switch back on perform one of the following :

1. Press Standby again.

2. Select a programme position from 0 – 9 on the remote control.

3. Press Programme Up / Down (\blacktriangledown \blacktriangle) on the TV.

If the TV. is in Standby mode it is not possible to switch it back on using the Power switch (front of the TV.).



Programme Position Selection

There are three ways to select a different programme position :

To select a programme between 0 – 9 press numeric key once.

Press up / down to change programme position by one.

To select a programme position between 10 – 99 press the –/– – key followed by the numbers required.



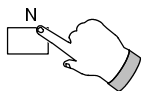
Normalisation Store

Adjust the Volume, Bass, Treble, Balance, Colour, Tint (NTSC / M.NTSC only), Brightness, Contrast, Sharpness and Fine Tune to normal viewing levels. Press STR when the main menu or sound menu are displayed to store these levels in memory.

It is possible to store different Bass and Treble values in Music and Speech modes.

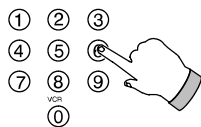
Operation of Controls

Certain functions will display a coloured bar on screen for a short period of time.



Normalisation

Press to recall the levels previously set with Normalisation Store.



Direct Channel Access

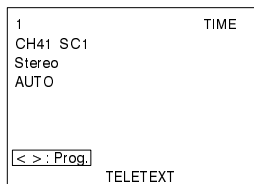
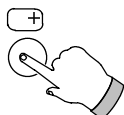
If the local channel numbers are known, they may be accessed directly using the following method.

Press the 'C' key.

(To tune in a hyperband channel press the $-/--$ key). Press the numeric keys within six seconds. (e.g. for channel 5 press 0 and 5).

The screen will display the channel.

CH=channels 2–99; H=hyper S21–S41.



Status / Programme Table

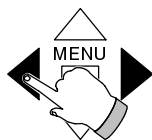
Press Status.

The screen will display the following :

Programme Position, Programme Name, Channel number, Time (If Teletext is available), Audio Systems (If available), Teletext System (If available).

Press \blacktriangleleft \blacktriangleright to display the programme table for channels 1 to 31 plus VCR, 32 to 63, 64 to 95 and 96 to 99.

Press Status again to remove the programme table.



PRGNAMES	CH	PRGNAMES	CH
VCR	---	16	---
01	---	17	---
02	---	18	---
03	---	19	---
04	---	20	---
05	---	21	---
06	---	22	---
07	---	23	---
08	---	24	---
09	---	25	---
10	---	26	---
11	---	27	---
12	---	28	---
13	---	29	---
14	---	30	---
15	---	31	---

If the programme tables are not accessed and only the Status information is displayed then the programme position number will remain on screen. Press Status again to remove.

Main Menu Operation

Contrast

Displayed on screen as a cyan bar.

Brightness

Displayed on screen as a white bar.

Colour

Displayed on screen as a red bar.

Sharpness

Displayed on screen as a green bar.

Tint (M.NTSC / NTSC only)

Displayed on screen as a green bar.

Sound menu

Allows access to sound controls detailed on page 14.

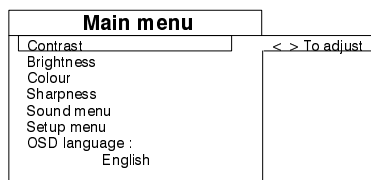
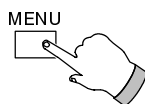
Setup menu

Allows access to feature controls detailed on page 15.

OSD language

Selects between German, English, French, Italian, Spanish, Swedish, Dutch, Danish, Norwegian Finnish or Turkish for the On Screen Display language.

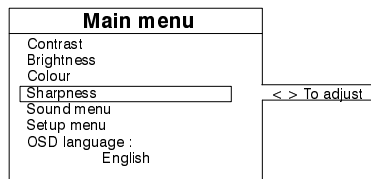
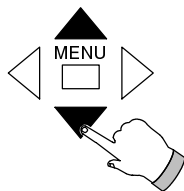
A



Press **MENU**.

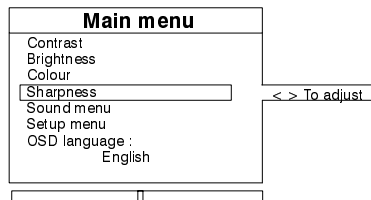
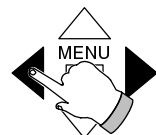
The screen will display the main menu.

B



Press \blacktriangledown \blacktriangle to select the required function.

C



Press \blacktriangleleft \blacktriangleright to access and alter the setting.

Press '**MENU**' to return to normal TV operation.

Operation of Controls

Certain functions will display a coloured bar on screen for a short period of time.

Sound Menu Operation

Bass

Adjusts the bass response up or down.
Displayed on screen as a purple bar.

Treble

Adjusts the treble response up or down.
Displayed on screen as a yellow bar.

Balance

Select to adjust the left / right balance between the speakers.
Displayed on screen as a green bar.

Volume correction

Select to adjust the volume for individual channels, e.g. satellite channels can be set with a different volume level than terrestrial channels.
Displayed on screen as a green bar.

MPX (NICAM Stereo / Normal Stereo Sound Systems)

When receiving Stereo transmissions, press to switch between NICAM / Normal Stereo and Mono sound output.

When receiving NICAM Mono / Bilingual transmissions, press to switch between NICAM Mono I / Bilingual I (M1), NICAM Mono II / Bilingual II (M2) and Mono sound output.

The sound outputs available are dependent upon what is transmitted on the received channel.

If the receiving conditions deteriorate it is advisable to switch to Mono mode.

To distinguish between NICAM and Normal Stereo reception, please consult your local Panasonic dealer for transmission information.

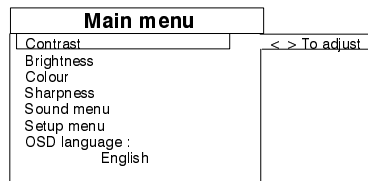
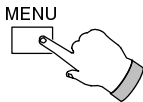
Mode

The sound can be improved during Music or Speech mode by selecting the appropriate function.

Ambience

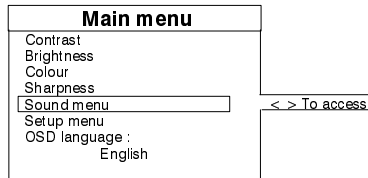
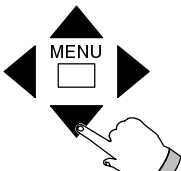
A dynamic sound enhancer that gives a feeling of greater acoustic presence.

A



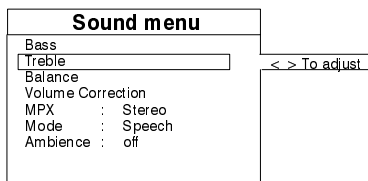
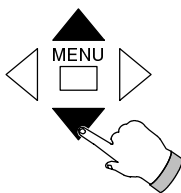
Press **MENU**.
The screen will display the main menu.

B



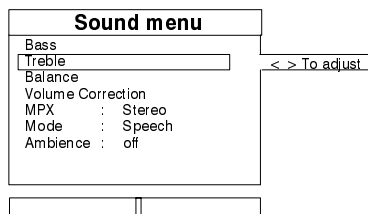
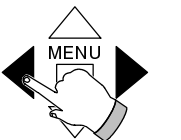
Press **▼▲** to move to "Sound menu".
Press **◀▶** to access "Sound menu".

C



Press **▼▲** to select the required function.

D



Press **◀▶** to select or adjust the setting.

Press **'N'** to return to normal TV operation.

Important Information

The received channels sound may deteriorate below an acceptable listening level, if this occurs it is advisable to perform the following :

1. Perform steps A, B and C, as detailed above, selecting MPX in step C.
2. Press **◀▶** to switch the sound mode to Mono.
3. Press **'N'** to return to normal TV operation.

When the receiving conditions improve, the available MPX options (e.g. Stereo or Mono) will be selectable again, if so perform the following :

1. Perform steps A, B and C, as detailed above, selecting MPX in step C.
2. Press **◀▶** to select between the available options (e.g. Stereo or Mono).
3. Press **'N'** to return to normal TV operation.

Setup Menu Operation

AI (Artificial Intelligence)

As the TV video signal is processed for immediate reception, "Brightness", "Contrast", "Shade of Colour", etc. are automatically adjusted to the optimum conditions.

Each frame is finely and automatically adjusted to compensate for the picture's characteristics thereby achieving contrast with optimum field of depth, and vivid colour tones.

Noise-R (Picture Noise Reduction)

Reduces the picture noise i.e. interference.

Aspect (Picture Format)

When receiving a 16:9 format picture select to obtain the correct picture height on screen.

16 : 9 : Wide screen

4 : 3 : Normal

Aspect 4 : 3



Aspect 16 : 9



A correct 16:9 picture format is only possible when a 16:9 signal is received through the AV 21 pin terminal. It is possible to switch a normal 4:3 signal into 16:9 mode, but this is for effect only and does not accurately represent the 16:9 picture format.

Picture format cannot be changed whilst in Teletext mode.

AV2 OUT (AV2 Out Selection)

AV2 can be used as an output to record from one of the following:

TV : Present programme position selected

AV1 : Equipment connected to AV1

AV3 : Equipment connected to AV3

MON : Picture displayed on screen (Monitor)

Monitor output is not possible whilst AV2 is being used as an input.

Examples of Audio / Video connections are shown on pages 20 / 21.

Off Timer

This enables you to select the time after which the TV switches off to the Standby mode, 30, 60 or 90 minutes.

TEXT language

Alters the On Screen text to either Western European, Eastern European1 or Eastern European2 character set.

Mode Languages

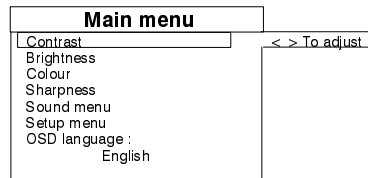
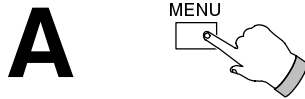
Western : English, German, French, Italian, Spanish, Swedish, Turkish

East1 : Slovakian, Hungarian, Serbian / Croatian, Albanian, Rumanian

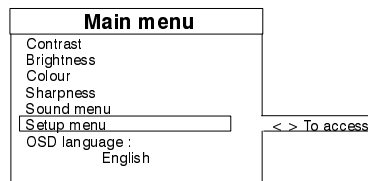
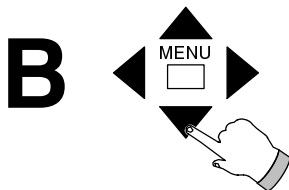
East2 : Polish, French, Swedish, Czech / Slovak, German, Italian

Tuning menu

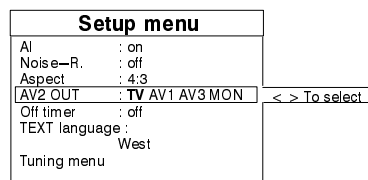
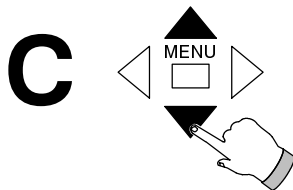
Allows access to the tuning—in menu. Refer to tuning procedure starting on page 7.



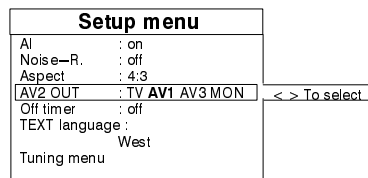
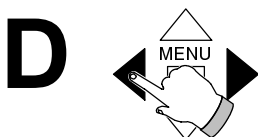
Press **MENU**.
The screen will display the main menu.



Press **▼▲** to move to "**Setup menu**".
Press **◀▶** to access "**Setup menu**".



Press **▼▲** to select the required function.
AI, Noise-R, Aspect, AV2 OUT, Off timer, TEXT language, Tuning menu.



Press **◀▶** to access or alter the setting.
Press '**N**' to return to normal TV operation.

TV / AV Selection

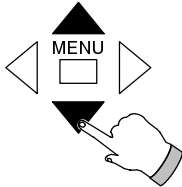
A



AV1

Press **TV / AV** to switch to Audio / Video mode.

B

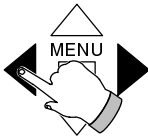


AV1

AV select
AV1
AV2 AV2S <> To select
AV3

Press **▼▲** to select desired AV source :– AV1, AV2 or AV3.

C



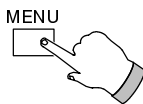
AV2

AV select
AV1
AV2 **AV2S** <> To select
AV3

Only use this Step when AV2 is selected.

Press **◀▶** to select between AV2 or AV2S.

D



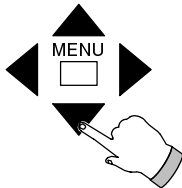
Main menu

Contrast <> To adjust
Brightness
Colour
Sharpness
Sound menu
Setup menu
OSD language :
English

Only use Steps D to F if the transmission standard is to be set. Note if you receive a picture without colour you will need to use the following steps to ensure that the Colour system is set to the correct standards.

Press **MENU**.
The screen will display the main menu.

E

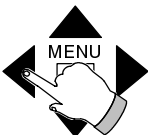


Main menu

Contrast
Brightness
Colour
Sharpness
Sound menu
Setup menu <> To access
OSD language :
English

Press **▼▲** to move to “**Setup menu**”.
Press **◀▶** to access “**Setup menu**”.

F



Setup menu

All : on
Noise-R. : off
Aspect : 16:9
AV2 OUT : TV
Off timer : off
TEXT language :
West
Colour system :
AUTO PAL SECAM M.NTSC NTSC <> To select

Press **▼▲** to move to “**Colour system**”.
Press **◀▶** to select desired colour system :– AUTO, PAL, SECAM, M.NTSC or NTSC.

Press “**N**” to remove “**Setup menu**”.

Depending on the signal conditions you may find that you receive a picture without colour. If this should occur then please select the correct **Colour system**.

G



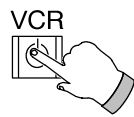
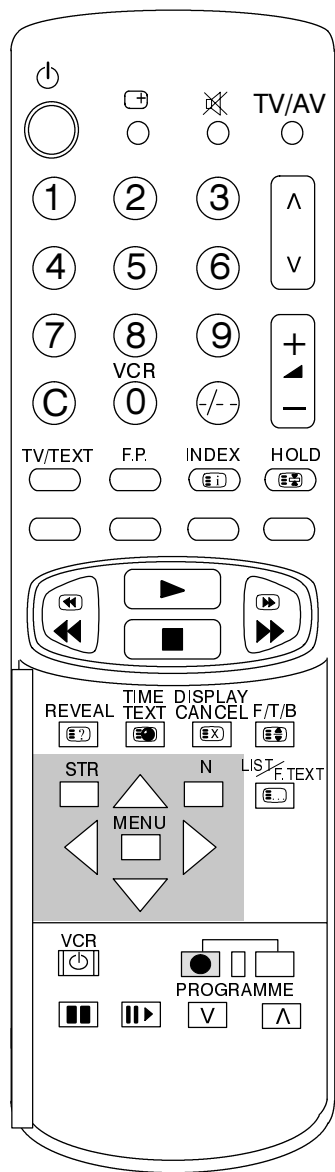
Press **TV / AV** to return to normal TV operation.

- Examples of Audio / Video connections are shown on pages 20 and 21.
- AV1 and AV2 are capable of switching to AV operation automatically if the equipment connected provides a switching signal. In this condition the display will show EC1 or EC2 and it is possible to change the programme position of the TV without changing the displayed picture.
To return to TV operation press the TV / AV key.

VCR Operation

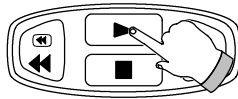
The Remote Control is capable of operating some functions of selected Panasonic VCR, please consult your dealer for details. Some VCR have different functions, so to ensure compatibility, please refer to the VCR instruction book.

If any difficulty is encountered when using this remote control with Panasonic video tape recorders please check the operation of the video recorder with the operating switch set at position one and again with the switch set at position two.



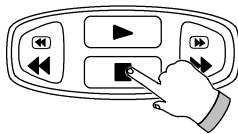
Standby

Press to switch the VCR to standby mode. Press again to switch back on.



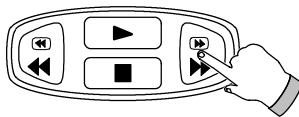
Play

Press to playback the tape.



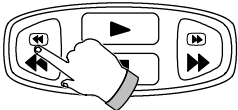
Stop

Press to stop the tape.



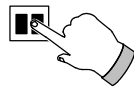
Fast Forward / Cue

Press to fast forward the tape. In Play mode, press to view the picture rapidly forward.



Rewind / Review

Press to rewind the tape. In Play mode, press to view the picture in reverse rapidly.



Pause / Still

Press in playback mode, the picture will pause.



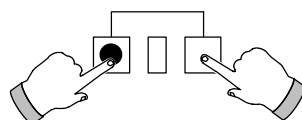
Still Advance

While in PAUSE / STILL mode, press to advance the picture one frame at a time.



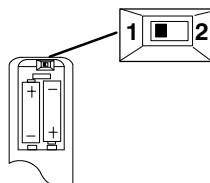
Programme Up / Down

Press to increase or decrease the VCR programme position by one.



Record

Press these together to record.



Operating Switch

If any difficulty is encountered when using this remote control with Panasonic video tape recorders please check the operation of the video recorder with the operating switch set at position one and again with the switch set at position two.

Teletext Operation

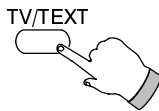
- Teletext features may vary depending on the Broadcasting Companies and is only available if the channel selected is transmitting Teletext.
- This TV set is capable of receiving German TOP Teletext transmissions, it will automatically switch to them if they are being received. This will be indicated in the display area at the bottom of the screen.
- Pressing the **MENU** key whilst in Teletext operation will display the contrast function with a cyan bar, press ◀ ▶ to alter the setting as required.
- When in teletext mode, the volume may still be altered to the desired listening level.

What is LIST mode?

In LIST mode, four differently coloured page numbers are situated at the bottom of the screen. Each of these numbers can be altered and stored in the TV's memory.

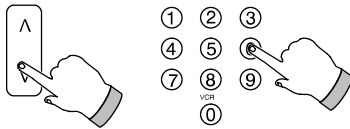
What is FASTEXT?

In FASTEXT mode, four differently coloured subjects are situated at the bottom of the display. To access more information about one of these subjects, press the appropriately coloured button. This facility enables fast access to information of the subjects shown.



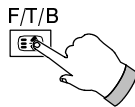
TV / Teletext mode

Press the **TV/TEXT** key.
The screen will display the Teletext page.
Press again when you wish to return to TV. mode.



Page Selection

Pages can be selected in two ways :
a. Press the Up / Down keys to increase or decrease the page number by one.
b. By entering the page number, using 0 –9 on the remote control.



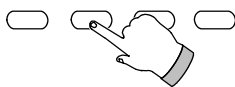
Full / Top / Bottom

Press to expand the TOP half of the page.
Press again to expand the BOTTOM half.
Press again to return to normal (FULL) size.



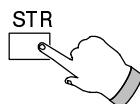
Reveal

Press to reveal hidden words e.g. quiz page answers.
Press again to hide.



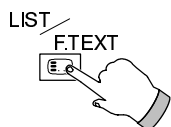
Red / Green / Yellow / Blue keys

In TOP or FASTEXT mode these correspond to the differently coloured subjects.
In LIST mode they correspond to the differently coloured page numbers.



List Store

In LIST mode the four page numbers can be altered for channel positions 1 – 25 only.
To do this, press one of the coloured keys and enter the new page number.
Press and hold **STR**, the page numbers will change colour.



List / F.text (List / Top)

When in List / Top operation

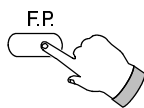
Press to change from TOP mode to LIST operation and vice versa.

When in List / Fastext operation

Press to change from FASTEXT mode to LIST mode and vice versa.

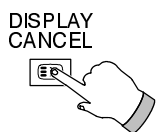
In FASTEXT mode four differently coloured subjects are displayed at the bottom of the page. Press the appropriate coloured key to access more information about one of these subjects.

It is not possible to change the programme position when in News flash, Update or Sub Coded Page Access operation.



Favourite Page (F.P.)

Stores a favourite page in memory for instant recall. To store such a page, the TV must be in LIST mode, and the programme position must be from 1 – 25. Press the **BLUE** key, select the page number, then press **STR**. The page number is now stored. Press **F.P.** to recall this page.



Display Cancel

Press **DISPLAY CANCEL** to view the TV picture whilst searching for a Teletext page. When found, the screen will display the page number at the top left. Press **DISPLAY CANCEL** to view the page. Press **TV / TEXT** to return to normal TV operation.

News Flash

When a news flash page has been selected, press **DISPLAY CANCEL** to view the TV picture, when an update is received, it will be displayed on screen. Press **DISPLAY CANCEL** to remove updated news. Press **TV / TEXT** to return to normal TV operation.

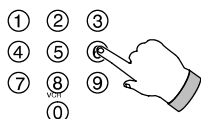
Update

Press **DISPLAY CANCEL** to see the update of information on certain pages. When an update is received, the page number will be displayed at the top left of the screen. Press **DISPLAY CANCEL** to view the page. Press **TV / TEXT** to return to normal TV operation.



Sub Coded Page Access

When teletext information exceeds more than one page, it may take some time for the automatic changing of the sub pages to reach the sub page you require. It is possible to enter your required sub page and continue watching the normal programme until the correct sub page is found. Select the required page number using keys 0 – 9.

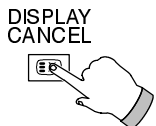


Press **TIME TEXT**, **** will be displayed (top right of the screen).

Enter desired sub page number before the **** disappears. To select page 6 enter 0, 0, 0 and 6.

If in LIST mode, a 'T' will appear in the current box at the bottom.

Press **DISPLAY CANCEL** to view a normal TV programme.



When the page is available, press **DISPLAY CANCEL** to view the page. To clear the page perform one of the following :

- Select a new page number.
- Press **TV/TEXT** to return to normal TV operation.



Index

When in TOP operation

Press **INDEX** to display the PANASONIC INDEX Directory. Press **RED / GREEN** to move the cursor UP / DOWN. Press **YELLOW** to move to next directory page. Press **BLUE** to view the selected subject. Press **INDEX** key to return to the previously selected page.

When in FASTEXT operation

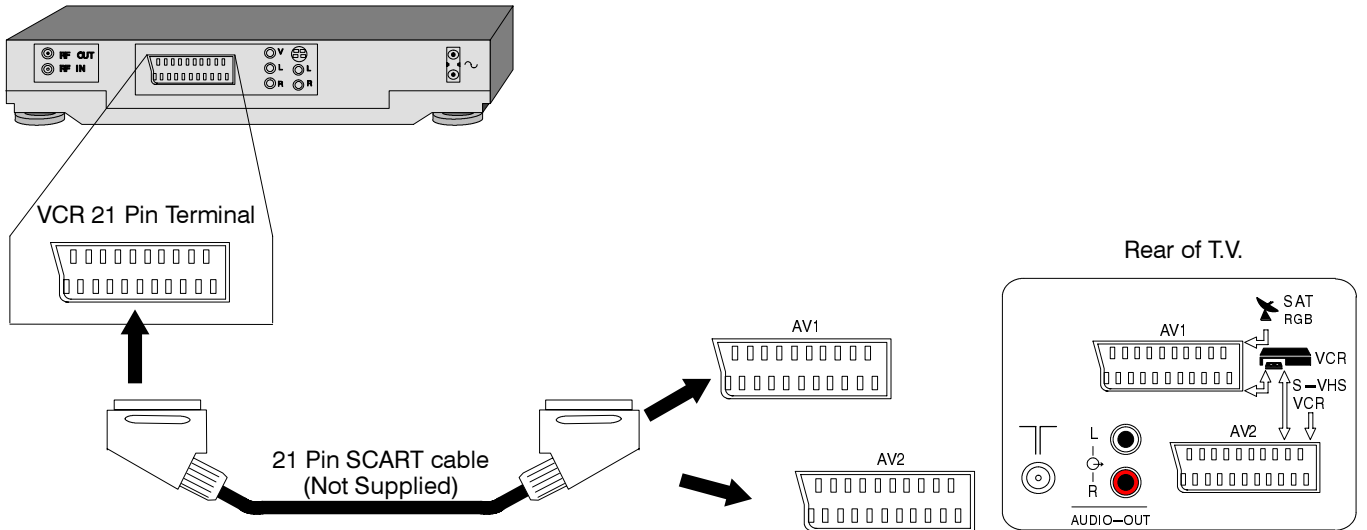
Press **INDEX** to return to the main index page.

Audio / Video (AV) Connections

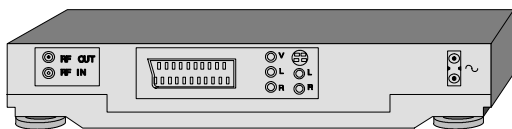
■ Via the AV1 / AV2 21 Pin (SCART) terminals

Playback or Recording Equipment
(VHS or S-VHS VCR)
(Not Supplied)

- To connect a VHS VCR use the AV1 21 pin terminal.
- To connect an S-VHS VCR use the AV2 S-VHS 21 pin terminal.



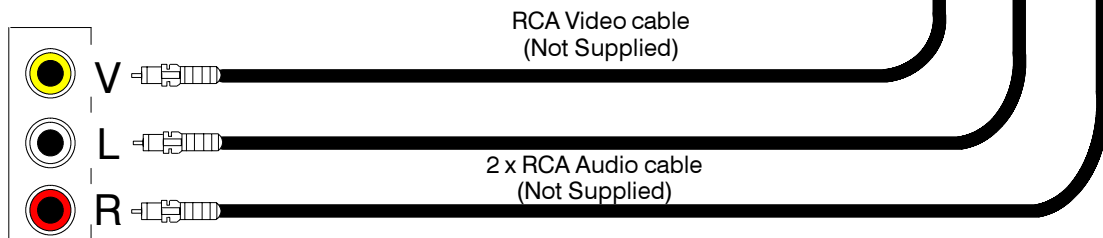
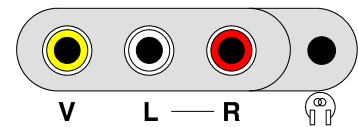
■ Via the front AV3 Video and Audio (RCA) terminals



VCR or Camera
Playback Equipment (VHS)
(Not Supplied)

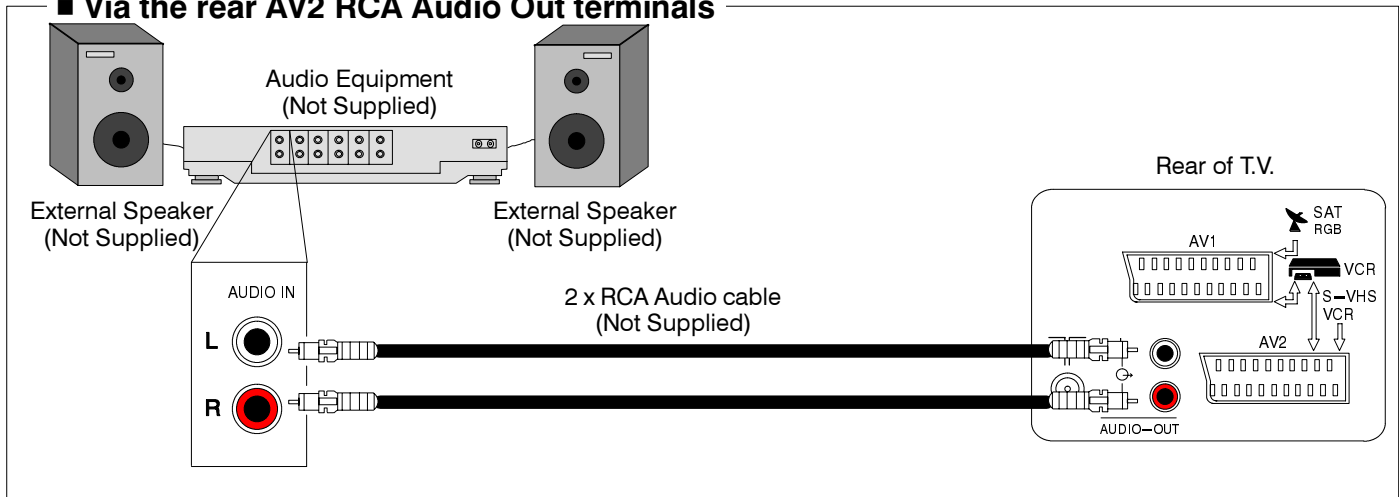
Front of TV

AV 3 →

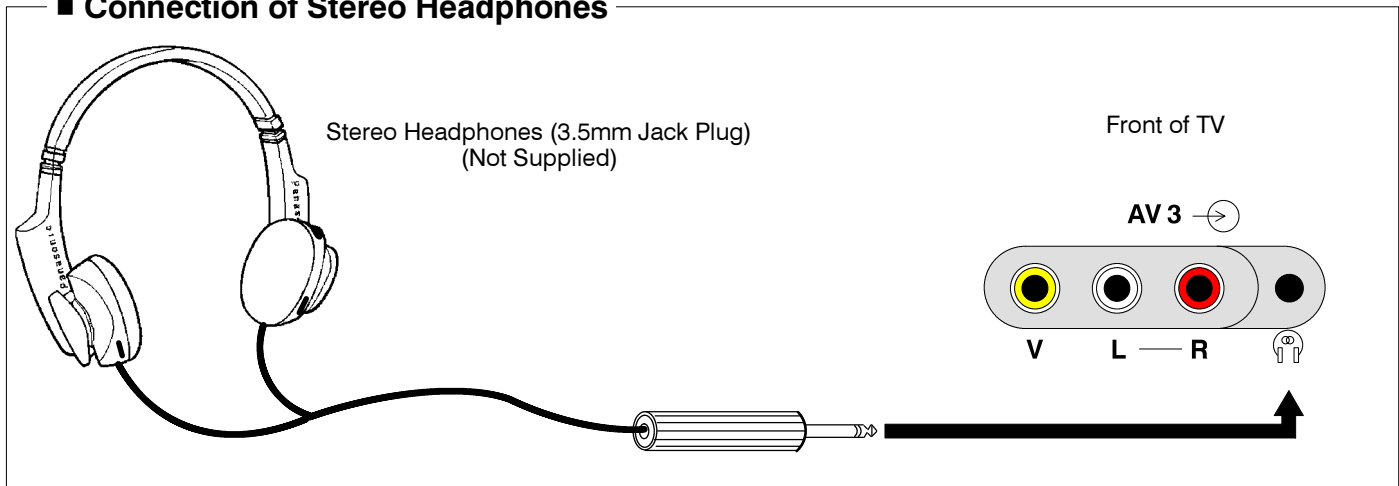


Audio / Video (AV) Connections

■ Via the rear AV2 RCA Audio Out terminals



■ Connection of Stereo Headphones



■ SCART Terminal Information

21 pin SCART terminal information

Socket Earth	21	20	CVBS in (video)
CVBS out (video)	19	18	RGB status earth
CVBS earth	17	16	Status RGB
Red in	15	14	Ground
Red earth	13	12	No connection
Green in	11	10	No connection
Green earth	9	8	Status CVBS
Blue in	7	6	Audio in (L)
Blue earth	5	4	Audio earth
Audio out (L)	3	2	Audio in (R)
Audio out (R)	1		

- The AV2 21 pin terminal has the following differences from the AV1 21 pin terminal :-

PIN 7 - No connection	PIN 11 - No connection	PIN 15 - S.C - In
PIN 16 - No connection	PIN 20 - CVBS in (S-Y in)	

Pins 15 and 20 are dependent on AV2 S-VHS / VIDEO switching.


- Cables shown are not supplied with this T.V. set.
- Do not connect a computer with TTL output (5V) to this set.
- The AV2 21 pin terminal can also be used as an Output to Audio / Video Equipment (refer to page 15 for details).

Trouble–shooting

Before calling for service, make a few simple checks as follows :

Symptoms		Checks
Picture	Sound	
Snowy Picture or Multiple Images	Noisy Sound or Normal Sound	Aerial location, direction or connection
Interference	Noisy Sound	Electrical appliances, Vehicles, Fluorescent lights
Normal Picture	Noisy or No Sound	Volume level, Sound muted Check correct Audio Standard selected
No Picture	No Sound	Not plugged into A.C. outlet, Not switched on Picture / Sound controls set at minimum levels
No Colour	Normal Sound	Colour controls set at minimum levels
Scrambled	Normal or Weak Sound	Retune Channel(s)

Specifications

		TX–28XD3F /A	TX–25XD3F /A
Power Source		220 – 240V 50Hz A.C.	
Power Consumption		96W	94W
Standby Power Consumption		1W	
Picture Tube FST 110°		70cm diagonal (66cm visible diagonal)	63cm diagonal (59cm visible diagonal)
Audio Output		20W x 2 (MPO)	
Dimensions	H W D	??? mm ??? mm ??? mm	550 mm 730 mm 479 mm
Weight (Kg)		??	31
Receiving Systems / Band name		PAL B, PAL G, PAL H, PAL–60, SECAM B, G, SECAM L/L' VHF E2 – E12 VHF H1 – H2 (ITALY) VHF A – H (ITALY) UHF E21 – E69 CÂBLE (S01 – S05) CÂBLE S1 – S10 (M1 – M10) CÂBLE S11 – S20 (U1 – U10) CÂBLE S21 – S41 (Hyperbande)	
		M.NTSC Playback from NTSC 4.43 MHz Videorecorders (VCR) NTSC (AV input only) Playback from NTSC Videorecorders (VCR)	
Aerial – rear		UHF/VHF	
Headphones – Front		3,5mm	
AV – Rear		AV1 – 21 pin terminal – Audio / Video in / out, RGB in. AV2 – 21 pin terminal – Audio / Video in / out, S–Video in, Selectable Output. 2 x RCA Audio Monitor Out	
AV – Front		AV3 – 2 x RCA Audio in, 1 x RCA Video in	

- Specifications are subject to change without notice. Weight and dimensions shown are approximate.

