21T9B-S

21F9B-S

COLOUR TELEVISION OPERATING INSTRUCTIONS

MAIN FEATURES

◆ Stage curtain for open and close effect

◆ Digital I^{2}C bus control

◆ Auto search tuning & 218 programs stored

◆ Full infrared remote control

◆ Multi-picture modes selection

◆ Multi-function timer, appointing program

CONTENTS

WARNING AND CAUTIONS

1. When you clean the TV set, please pull out the power plug from AC outlet.
Or may result in electric shock, fire or damage to the TV set. Don't clean the cabinet and the screen with benzene, petrol and other chemicals.
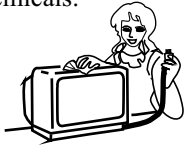
4. Do not place the TV set near rain or moisture as it may cause an electric shock, or the TV set to catch fire. The TV set must only be used in dry indoor location.
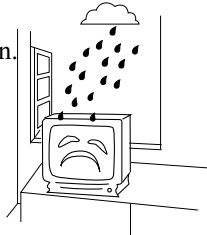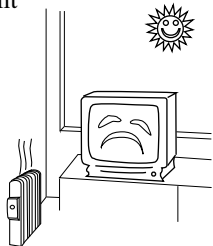
2. In order to prolong the using life of the TV set, please place it at a well ventilated location.
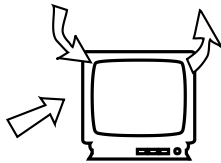
5. The back cover must only be removed by a registered electrical service person. Removing the back cover may result in electric shock, fire or damage to the TV set.

3. Don't place the TV set in direct sunlight or near heat source.

6. If the TV set is not going to be used for long time, or there is a severe thunder & lightening storm, it is recommended that the TV set be disconnected from the AC power outlet and the aerial plug removed.
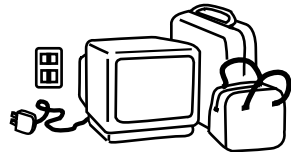
Explanation on the display tube

When the picture tube requires cleaning, please disconnect the power and use a dry soft cotton cloth. Do not use any cleaner or abrasive cloth.

BASIC FEATURE

- I^2C bus control
- 218 programs stored
- Display full functions on the screen and infrared remote control
- Multi picture modes and sound modes selection
- Auto searching, function selecting and program number skipping
- Multi function timer
- Programs scanning
- Game, Multi-function lock
- Stage curtain for open and close effect

TECHNICAL SPECIFICATION

1.POWER SUPPLY:	See rating plate
2.COLOUR SYSTEM:	PAL SECAM NTSC4.43/3.58(AV)
3.AUDIO SYSTEM:	B/G D/K
4.CRT:	21"
5.ANTENNA INPUT :	75 Ω Standard Coaxial Cable
6.SOUND OUTPUT POWER:	3W
7.POWER CONSUMPTION:	See rating plate
8.NET WEIGHT(kg):	21.5（21T9B-S）
	24.5（21F9B-S）
9.NET DIMENSION(mm):	638×485×458

Supplied accessories:

Infrared remote control handset	1
Battery(AA)	2
Operating instruction	1

Design and specifications are subject to change without notice.

Figure A

Figure B

75-300Ω
Antenna adapter

Antenna cable
with a plug

Antenna feeder
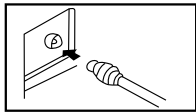
Figure C

Figure D

Coaxial cable(75Ω)　　twin-lead cable(300Ω)

Antenna connection

Connect an antenna to the antenna socket on the TV set, we recommend using a Cable TV system for better picture and audio quality.
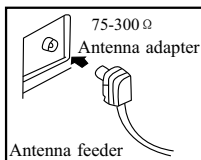
1.If you use a coaxial cable(75Ω),insert the antenna plug (see figure C) into 75Ω socket (see figure A).

2.If you use a twin-lead cable(300Ω),please shape the cable as figure D, and connect the leads to antenna adapter and then insert the antenna adapter into the 75Ω socket (see figure B).

Power source wire connection

Insert the power plug into AC outlet.

Install and replace batteries of the remote control unit:

1.Place the remote control unit with the face down, then open the battery cover of the unit.

2.Place the two"AA"size batteries, matching the + and - signs on each battery to the + and -signs of the battery compartment.

3.Close the cover of the battery compartment.

NOTE:

(1)Don't drop or wet or dismantle the unit.

(2)If you don't intend to use the unit for a long period or the electricity of the batteries is used up, remove the batteries to prevent batteries acid from leaking into the battery compartment.

(3)Replace the two old batteries at the same time.

(4)Don't use charge battery (Ni-cd)and don't mix battery type.

(5)Don't throw your batteries into a fire. Dispose of your batteries in a required place.

1.Front Panel
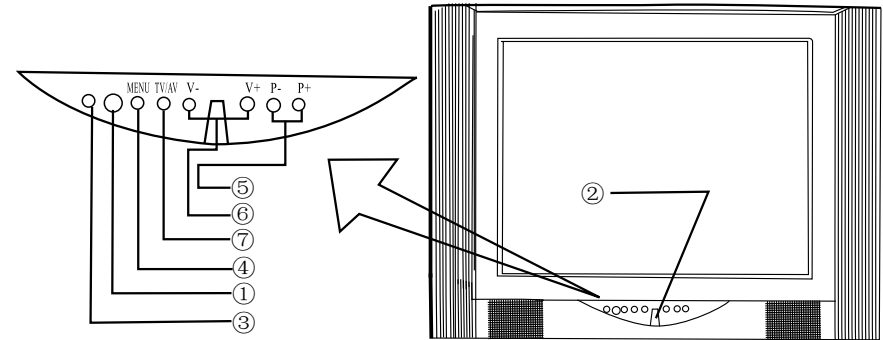
①Remote sensor:Let the remote controller aim here, the set can receive remote control signal.

②Power switch:Press the button to turn on the TV set . Press the button again to turn off the TV set.

③Power indicator: The indicator lights when power on.

④Menu button

⑤Program up/down button

⑥Volume up/down button

⑦TV/AV

2.The sockets on the rear panel

①Antenna socket

②Audio/Video socket

③S-Video socket

④DVD component socket

3.The socket on the

　side panel

⑤Video input socket

⑥Audio(L) input socket

⑦Audio(R) input socket

→ Direction of signal
Ⓦ white（left audio）
Ⓡ red（Cr/right audio）
Ⓑ blue（Cb）
Ⓖ green（Y）
Ⓨ yellow（video）

Y   Cb   Cr

IN

S-VIDEO
VIDEO   L AUDIO R
OUT

DVD(with DVD component)

VCR (without S-VIDEO terminal)
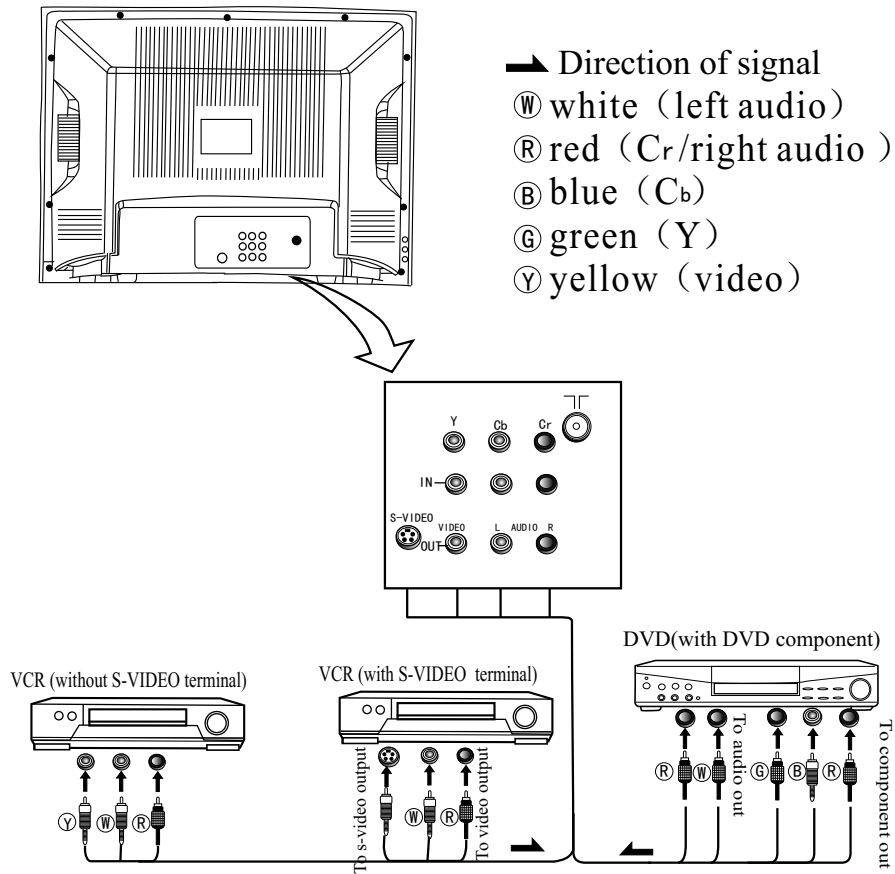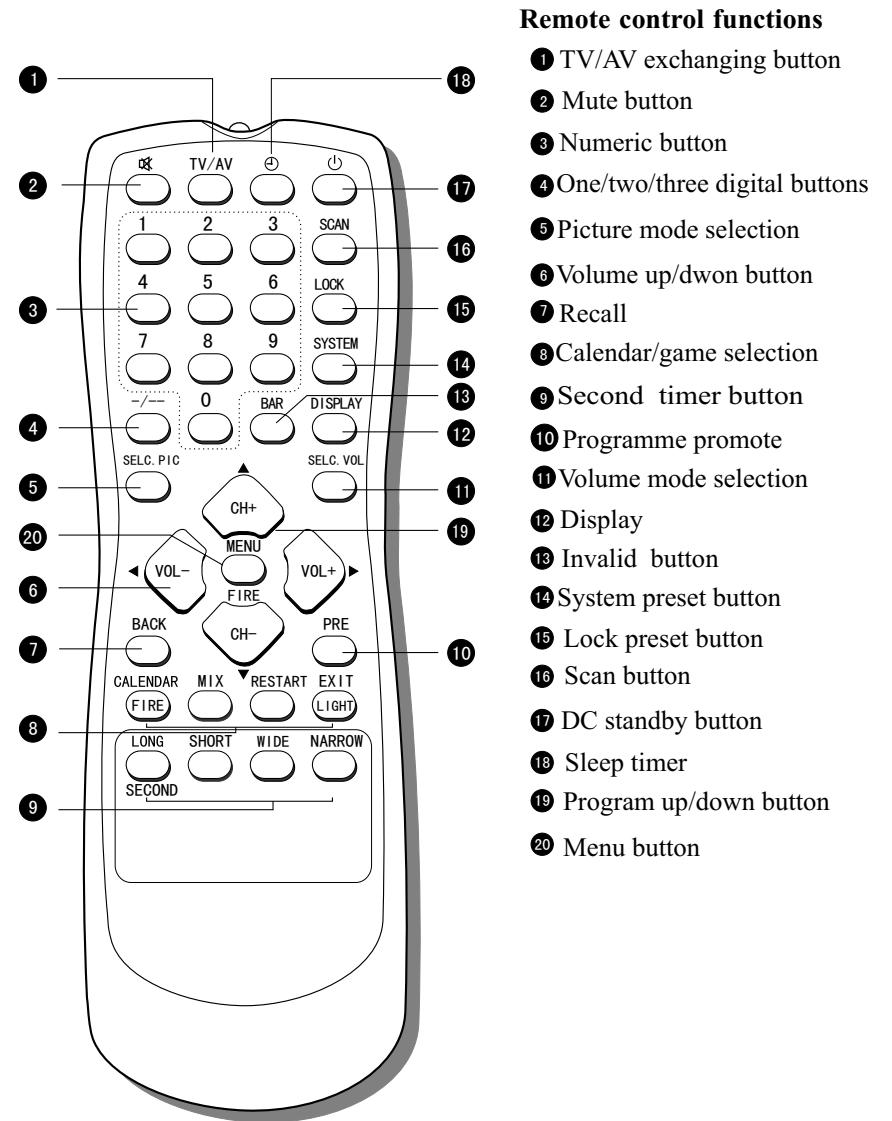
VCR (with S-VIDEO terminal)

To s-video output

To video output

To audio out

To component out

Ⓨ Ⓦ Ⓡ

Ⓦ Ⓡ

Ⓡ Ⓦ Ⓡ   Ⓖ Ⓑ Ⓡ
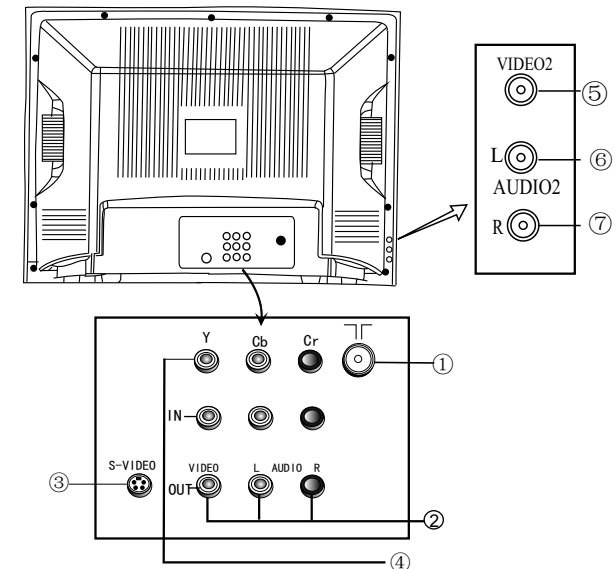
Note:

1. When receive s-video signal, you must remove video signal;when receive
   video signal,you must remove s-video signal.

2. When receive side video signal, you must remove back video signal; when
   receive back video signal,you must remove side video signal.

Remote control functions

❶ TV/AV exchanging button
❷ Mute button
❸ Numeric button
❹ One/two/three digital buttons
❺ Picture mode selection
❻ Volume up/dwon button
❼ Recall
❽ Calendar/game selection
❾ Second timer button
❿ Programme promote
⓫ Volume mode selection
⓬ Display
⓭ Invalid button
⓮ System preset button
⓯ Lock preset button
⓰ Scan button
⓱ DC standby button
⓲ Sleep timer
⓳ Program up/down button
⓴ Menu button

TV/AV

1 2 3   SCAN

4 5 6   LOCK

7 8 9   SYSTEM

-/-- 0   BAR DISPLAY

SELC. PIC   SELC. VOL

CH+

MENU

VOL-   VOL+

FIRE

BACK   CH-   PRE

CALENDAR MIX RESTART EXIT
FIRE   LIGHT

LONG SHORT WIDE NARROW

SECOND

Note :Because there is no bar function in the TV,"LONG", "SHORT",
"WIDE", "NARROW" buttons are invalid.

POWER SUPPLY

1.Power supply (switch on/off to set main power supply).

Press power switch button and the TV set shall be under normal receiving condition.

Press it again and the power shall be off.

2.Standby button (remote control power supply).

Press the button and the TV set enters standby condition, press it again and the set

enters normal receiving condition.

TUNING PROCEDURE

1.Preparation

Connect the aerial and power supply

wire, press power switch button, the

power indicator will light after a few

seconds.

2.Auto-search

The TV set will automatically search all

programs, after the search is finished, all

fine tuned programs will be stored automatically.

(1)Press [MENU] button to let TUNING menu display on the screen.

(2)Press [-CH+] button to select AUTO MEMORY item.

(3)Press [VOL+] button, the TV set will begin to search programs from program

   number 0. After the search is finished, program number 0 will display on the

   screen.

(4)During auto-search, if you want to stop searching, press [VOL-] button.

3.Semi-Auto search

You can preset the program you need to the pointed channel.

```
TUNING
POSITION          1
BAND            UHF
SKIP            OFF
SEARCH          UP
MFT           DOWN
⬆AUTO MEMORY➔

SELECT⬆⬇ADJUST⬅➔
```

TUNING PROCEDURE

(1)Press [MENU] button to let TUNING menu display on the screen.
(2)Press [-CH+] buttons to select SEARCH item.
(3)Press [-VOL+] buttons to change channel number into pointed channel
    number.
(4)Press [-VOL+] buttons, when the TV set has searched a program, stop
   searching, if the program isn't the one you need, press[-VOL +] buttons
   again, the set will search continually until it has searched the program you
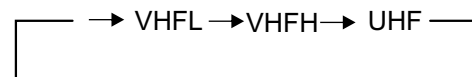   need. And pointed program is stored in pointed channel.
4.Selecting band
   In the semi-auto search mode, if the signal you want to search isn't on
   the present band, you can change the band to improve searching speed.
(1)Press [MENU] button to let TUNING menu display on the screen.
(2)Press [-CH+] buttons to select BAND item.
(3)Press [-VOL+] buttons to select the band you need.

```
   ┌──→ VHFL →VHFH→ UHF ──┐
   └──────────────────────┘
```

5.Fine tuning
   Because of some reasons, if auto searching effect of program
   isn't good, please fine tune your TV set.
(1)Press [-CH+] buttons, and select MFT item.
(2)Press and hold [-VOL +] buttons until the effects of the picture
   and audio are good.

6.Skip
   The function can skip the TV program which you don't need.
(1)Press [-CH+] button or numeric button to select the program
   number which you want to skip. (for example: channel 002)
(2)Press [MENU] button to select TUNING menu.
(3)Press [-CH+] buttons to select SKIP item.
(4)Press [-VOL+] buttons to preset SKIP ON mode.
Note: When a certain program number is in SKIP ON mode, the program
       number will not appear when you select program with the [-CH+]
       buttons, but program number will appear with numeric button.
       When a certain program number is in the SKIP OFF mode, the
       program number will appear when you select program with [-CH+]
       buttons.

PICTURE ADJUSTMENT

Press [MENU] button to select PICTURE menu.
Press [-CH+] buttons to select an item.
Press [-VOL+] buttons to adjust the value of the item function.

```
 PICTURE

⌘CONTRAST    100
  BRIGHT       50
  COLOR        50
  SHARP        50
  B.B         OFF
 SELECT↑↓ADJUST↤↦
```

Brightness adjustment:
Press [-CH+] buttons to select BRIGHT item.
Press [-VOL+] buttons to adjust brightness.
Contrast adjustment:
Press [-CH+] buttons to select CONTRAST item.
Press [-VOL+] buttons to adjust contrast.
Colour adjustment:
Press [-CH+] buttons to select COLOR item.
Press [-VOL+] buttons to adjust colour.
Sharpness adjustment:
Press [-CH+] buttons to select SHARP item.
Press [-VOL+] buttons to adjust sharpness.
Background selection:
Press [-VOL+] buttons to select a background on or off.

OTHER FUNCTIONS

1.FUNCTION 1
 The function can select OSD language, curtain mode,volume mode and volume
 memory mode.

(1)Press [MENU] button to select FUNCTION1 menu.
(2)Press [-CH+] buttons to select an item.
(3)Press [-VOL+] buttons to set function of the item .

```
FUNCTION1
 LANG.  ENGLISH
 CURTAIN        I
 LOW VOL       20
 NORMAL VOL    40
⌘HIGH VOL      60
 VOL STORE    OFF

 SELECT↑↓ADJUST↤↦
```

Note:
    (1)When you select VOL STORE ON, the TV set can hold the same volume with
        changing channel No. .(The channel No. must be 1 between 50.)
    (2)When you select CURTAIN item, you can select three curtain modes: I, II and
        III.

2.FUNCTION 2

(1)Press [MENU] button to select FUNCTION2 menu.
(2)Press [-CH+] buttons to select an item.
(3)Press [-VOL+] buttons to set function of the item .
Note:
(1)If you select COUNT item , you can get
   the total time of receiving TV program
   (except standby time).
(2)Soft-exchanging channel No. function:
   Select S.C.C ON, so when you exchange channel No.,
   the picture will fade in/out.

```
FUNCTION2

⌘SUBMARINE    ↦
  POS.EX      ↦
  S.C.C      OFF
  COUNT     13:21

 SELECT↑↓ADJUST ↤↦
```

（3）.POS.EX item:
Press [VOL+] button to enter its sub-menu(digits
In POS.EX and EX.POS2 items are present channel
No.).
Press [-CH+] buttons to select EX.POS2 item.
Press [CH+] button to put into channel No.(for
example:9).
Press [-CH+] buttons to select EXCHANGE item,
press [VOL+] button to approve. The program
in channel No. 1 will change with the program
in channel No.9.

```
          POS.EX.
☞ EX.POS1      23
   EX.POS2      23
   EXCHANGE      ?
   RETURN       ➜
```
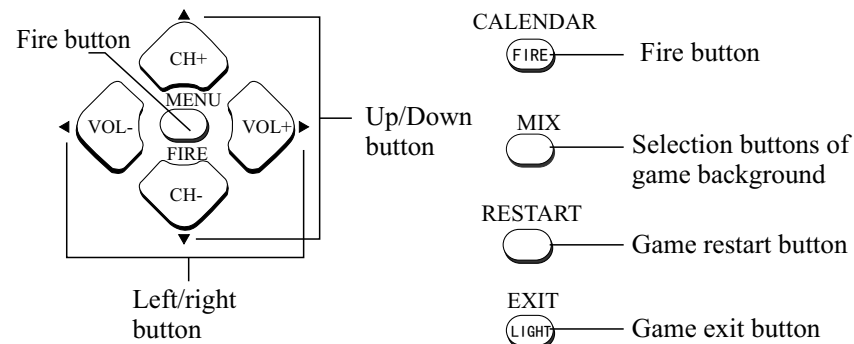
```
          POS.EX.
   EX.POS1       1
☞ EX.POS2       9
   EXCHANGE      ?
   RETURN       ➜
```

```

                         9



```

• When you select "SUBMARINE" game item，enter game mode and the other
  buttons (except [GAME],[-VOL+],[-CH+]，⏻) are invalid.

Instructions of game controlling buttons

Fire button

CALENDAR
(FIRE) —— Fire button

MIX
○ —— Selection buttons of
      game background

RESTART
○ —— Game restart button

EXIT
(LIGHT) —— Game exit button

Up/Down button

Left/right button

3. Play game:

（1）Press [MENU] button to make FUNCTION2 menu
display, and press[-CH+] buttons to select
SUBMARINE item, then press [VOL+] button to
enter SUBMARINE game mode.

SCORE   000

（2）Press red game button and game begins,
use the remote controller to operate yellow
battle ship. Yellow battle ship bumps one of
green ship or blue ship or purple ship or red
ship or blue shot. and game is over. Yellow ship
use [MENU] button or blue [FIRE] button shoot shots.
The shot bump green ship or blue ship or purple
ship or blue shot and win 100scores,the shot
bumps red ship, and win 1000 scores.

SCORE   5800
GAME OVER
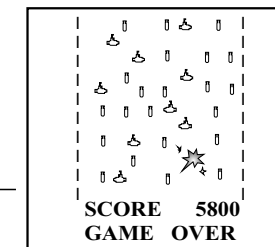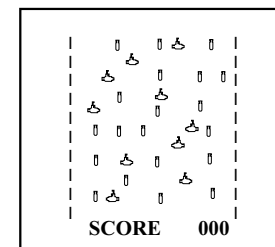
（3）During game or game is over，press red button
and game can restart. Ship obtaining highest
scores wins.

4.System selection:
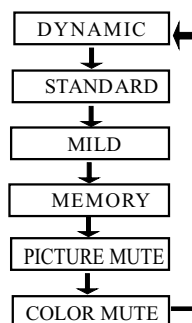
(1)Press [SYSTEM] button, OSD is as figure.
(2)Press [-CH+] buttons to select an item.
(3)Press [-VOL+] buttons to select a system(color system or sound system) you need.

```
⇪COLOR    AUTO
  SOUND   B/G
  SELECT⇕ADJUST ↔
```

5.Picture mode selection:
   Press [SELC.PIC] button to select a picture mode you need:

```
┌──────────────┐
│   DYNAMIC    │◄──┐
└──────┬───────┘   │
┌──────▼───────┐   │
│  STANDARD    │   │
└──────┬───────┘   │
┌──────▼───────┐   │
│    MILD      │   │
└──────┬───────┘   │
┌──────▼───────┐   │
│   MEMORY     │   │
└──────┬───────┘   │
┌──────▼───────┐   │
│ PICTURE MUTE │   │
└──────┬───────┘   │
┌──────▼───────┐   │
│  COLOR MUTE  │───┘
└──────────────┘
```

6.Calendar function:
   (1)Press [CALENDAR] button and OSD is as figure(press the button again ,the OSD disappears.).
   (2)Press [-CH+] buttons to select year, press [-VOL+] buttons to select month.

```
        JAN  2004
SU  MO  TU  WE  TH  FR  SA
                     1   2   3
 4   5   6   7   8   9  10
11  12  13  14  15  16  17
18  19  20  21  22  23  24
25  26  27  28  29  30  31
   YEAR⇕  MONTH↔
```

Press [MENU] button to select TIMER menu.
(1)Clock
   Press [-CH+] buttons to select CLOCK item;
   Press [-VOL+] buttons to set present time.
Note: At first, you must set CLOCK item,
      then you can set other items.
(2)On-timer and off-timer
   Press [-CH+] button to select ON-TIMER
   or OFF-TIMER item, press [-VOL+] buttons
   to set.(ON-TIMER/OFF-TIMER can be set to ONCE or EVERY or OFF.)
(3)Appointing time
   Press [-CH+] buttons to select appointing time item.
   Press [CH-] button to enter "appointing program" sub-menu.
   Press [-VOL+] buttons to select a channel No.(for example :100).
   Press [CH-] button to enter APPOINTMENT mode, then press
   [-VOL+] buttons to preset time.
   (Note:
   1.Press [-VOL+] buttons once and time changes
     with one minute unit; press and hold [-VOL+]
     buttons and time changes with 10 minutes unit.
   2.When it is appointing time, the TV set changes
     channel No. into appointing channel No. .
   3.The function is valid only in TV mode.)
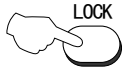Press [DISPLAY] button and exit APPOINTMENT
menu.

```
TIMER
  OFF TIMER      OFF
                 0:00
⇪ON TIMER        OFF
                 0:00
  POS              0
  CLOCK         0:50
  APPOINTMENT    →
  SELECT ⇕ ADJUST↔
```

```
APPOINTMENT
POS.          TIME
⇪ 001         0:01
  002         0:02
  003         0:03
  004         0:04
  005         0:05
  006         0:06
  SELECT⇕ADJUST ↔
```

Changing password

The password of the TV set is preset "0000" in manufacture, if you want to change the password, you can fill in four digits.
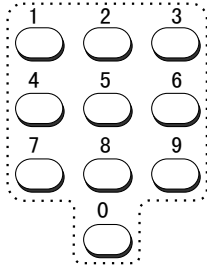
1.Press [LOCK] button, OSD is as the right figure.

LOCK OR UNLOCK
PASSWORD: ----

2. Press "0" button directly for four times to enter LOCK OR UNLOCK menu. Press [- CH+] buttons to select "CHANGE PASS" item, then press [VOL+] button to enter "CHANGE PASS" sub-menu.

LOCK OR UNLOCK
CHANGE PASS ➜
SEARCH LOCK   OFF
POS LOCK   OFF
AV LOCK   OFF
TIMER LOCK   OFF
CHILD LOCK   OFF
ALL CLEAR   OFF

3. Press numeric buttons and fill in four digits.

4. You can fill in new password.

CHANGE PASS:
NEW PASS: ----

Lock preset

The TV set can lock search, channel number, AV, timer and child lock items, if you need to lock them.

1. Press [LOCK] button , OSD is as the right figure.

LOCK OR UNLOCK
PASSWORD: ----

2. Press "0" button directly for four times (or press the four-digit password you have changed) to enter LOCK OR UNLOCK menu.

LOCK OR UNLOCK
CHANGE PASS ➜
SEARCH LOCK   OFF
POS LOCK   OFF
AV LOCK   OFF
TIMER LOCK   OFF
CHILD LOCK   OFF
ALL CLEAR   OFF

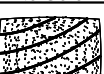3. Press [-CH+] buttons to select "SEARCH LOCK" item, and press [VOL+] button to select "ON" or "OFF".

CHANGE PASS:
NEW PASS: ----

Note:
1.After locking channel or AV, screen is black, no picture and no sound.
2.After locking child lock, the buttons on the TV set are invalid.
3.After locking channel search or timer, if you want to enter menu, you need to fill in password.

TROUBLE SHOOTING GUIDE

The following problems are not always caused by hardware failure, please use the follow trouble shooting guide before you call for service:

BREAKDOWN PHENOMENON		CHECKING
PICTURE	SOUND	
Picture with Snow	Noise	The direction and connection of the antenna
Double or Triple Image	Normal	Direction, station and connection of the antenna
Disturb	Noise	Interference from electric appliance. Automobile、Motor, Vehicle Fluorescence lamp etc.
Normal	No Sound	Volume, Sound mute
No Picture	No Sound	The power plug isn't plugged in AC Outlet. The main power isn't turned on. The setting up of contrast, brightness and volume.
No Color	Normal Volume	Adjust color control
Scramble	Normal or Weak Volume	Adjust channel again
Color Spot	Normal Volume	Moving the TV set or using magnetic electric appliance near TV, Which will lead to color spot on screen. Please remove the electric appliance and cut off power. After 120 minutes turn the TV on, the picture will be recovered.

Note:1.If the problem can not be fixed after you check above items. DO NOT attempt
to remove the back cover by yourself.

2.If the snapping sound from the cabinet of the TV set can be heard occasionally
because of temperature changing of environment, it is normal, you can use it
reassuringly.