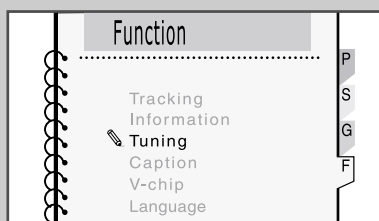## Selecting the Broadcast Source (NTSC model)

*Your TV can memorize and store all of the channels available.
Once the channels are memorized, you can use the* **CH ▼** *or* **CH ▲**
button to scan through the available channels.
*Before memorizing available channels, you must select what
broadcast source your TV is connected to either an antenna or a
cable system.*

```
Function
. . . . . . . . . . . . . . . . . . . . . . . . .      P
                                                        S
  Tracking
  Information                                           G
✎ Tuning
  Caption                                               F
  V-chip
  Language
```

1   Press the **MENU** button.
Result : The "**INDEX**" menu is displayed.

2   Press the **CH ▼** or **CH ▲** buttons to select "**FUNCTION**".

3   Press the **VOL ◄** or **VOL ►** button.
Result : The Function menu is displayed.

```
Tuning
. . . . . . . . . . . . . . . . . . . . . . . . .      P
✎ AIR/CATV                                              S
  Auto Tuning                                           G
  Manaul Tuning
  LNA  :  off                                           F
```

4   Press the **CH ▼** or **CH ▲** button to select " Tuning "

5   Press the **VOL ◄** or **VOL ►** button.
Result : The Tuning menu is displayed.

6   Press the **CH ▼** or **CH ▲** button to select "**AIR/CATV**".

```
AIR/CATV
AIR
◄ ►  : Select
```

7   Press the **VOL ◄** or **VOL ►** button.
If antenna is connected, leave it as **AIR** displayed.
If cable connected, press the **VOL ◄** or **VOL ►** buttons to select
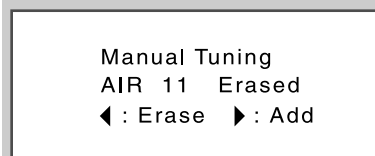**CATV** or **HRC**.

Storing Channels in Memory Automatically (NTSC model)

```
Auto Tuning
AIR  30
Menu : Stop
```
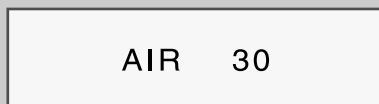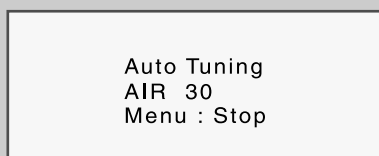
1   First, select the broadcast source as described on the previous page.
With the Tuning menu on screen, press **CH ▼** or **CH ▲** button to
select "**Auto Tuning**".

```
AIR    30
```

2   Press the **VOL ◄** or **VOL ►** button.
Result : The **TV** will begin memorizing all of the available stations.

20

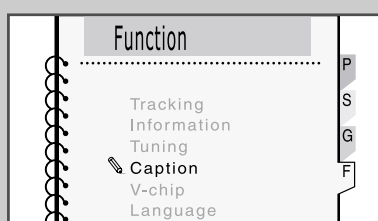# Adding and Erasing Channels(Manual Tuning) (NTSC model)

1   Press the numeric buttons to select the channel you want to add or erase.

2   To add a channel or erase channel, press the **MENU** button.

3   Press the **CH ▼** or **CH ▲** button to select "**FUNCTION**".

4   Press the **VOL ◄** or **VOL ►** button.
     Result :   The Function menu is displayed.

5   Press the **CH ▼** or **CH ▲** button to select "**Manual Tuning**".

6   Press the **VOL ◄** or **VOL ►** button
     Result :   The Manual Tuning menu is displayed.

7   Press the **VOL ◄** or **VOL ►** button .to add or erase.

     VOL ◄ : *Erase*   **VOL ►** : *Add*

8   If you change the channel No., press the **CH ▼** or **CH ▲** button.

9   When you have finished manual storage, press the **MENU** button repeatedly to return to normal viewing.

Function

Tracking
Information
✎ Tuning
Caption
V-chip
Language

P
S
G
F

Tuning

AIR/CATV
Auto Tuning
✎ Manaul Tuning
LNA : off

P
S
G
F

Manual Tuning
AIR 11 Erased
◄ : Erase ► : Add

Viewing Closed Captions (Option)

Your TV decodes and displays the closed caption that are broadcast with certain TV shows. These captions are usually subtitles for the hearing impaired or foreign-language translations. All VCRs record the closed caption signal from television program, so home-recorded video tapes also provide closed captions. Most pre-recorded commercial video tapes provide closed captions as well.
Check for the closed caption symbol in your television schedule and on the tape's packing : CC

NOTE :   The Caption feature dose not work with PC signals.

Function

- Tracking
- Information
- Tuning
- ✎ Caption
- V-chip
- Language

P S G F

1   Press the **MENU** button.
<u>Result :</u>   The "**INDEX**" menu is displayed.

2   Press the **CH ▼** or **CH ▲** button to select "FUNCTION".

3   Press the **VOL ◄** or **VOL ►** button
<u>Result :</u>   The Function menu is displayed.

4   Press the **CH ▼** or **CH ▲** button to select "Caption ".

5   Press the **VOL ◄** or **VOL ►** button.
<u>Result :</u>   The Caption menu is displayed.

Caption

- ✎ Caption   : On
- Mode   : Caption
- Channel : 1
- Field   : 1

P S G F

6   Press the **VOL ◄** or **VOL ►** button to turn the **Caption On/Off**.

NOTE :   Misspellings and unusual characters sometimes occur during closed caption transmissions, especially those of live events. There may be a small delay before captions appear when you change channels. These are not malfunctions of the TV.

Caption

- Caption   : On
- ✎ Mode   : Caption
- Channel : 1
- Field   : 1

P S G F

7   Press the **CH ▼** or **CH ▲** button to select "**Mode**".

8   Press the **VOL ◄** or **VOL ►** button to select "**Caption**" or "**Text**".

NOTE :   **In Cation mode,** captions appear at the bottom of the screen, and they usually cover only a small portion of the picture.
In TEXT mode,   information is not related to the program, such as news or weather, is displayed. Text often covers a large portion of the screen.

9   Depending on the particular broadcast, it might be necessary to make changes to **Channel** and **Field**.

10   Press the **CH ▼**, **CH ▲**, **VOL ◄** and **VOL ►** buttons to make the changes. (Follow the same procedure as in steps 5~7 above.)

11   When you have finished, press the **MENU** button repeatedly to return to normal viewing.

NOTE :   Different Channel and Field display different information: Field 2 carries additional information that supplements the information in Field 1.(For example, Channel 1 may have subtitles in English, while Channel 2 has subtitles in Spanish.)

Using the V-Chip (Option)

*The **V-Chip** feature automatically locks out programming that is deemed inappropriate for children. The user must enter a PIN (personal ID number) before any of the V-Chip restrictions can be up or changed.*

<u>*NOTE :*</u>   The V-Chip feature dose not work with PC signals.

1   Press the **MENU** button.
<u>Result :</u>   The "**INDEX**" menu is displayed.

2   Press the **CH ▼** or **CH ▲** button to select "**FUNCTION**".

3   Press the **VOL ◄** or **VOL ►** button
<u>Result :</u>   The Function menu is displayed.

4   Press the **CH ▼** or **CH ▲** button to select "**V-Chip**".

5   Press the **VOL ◄** or **VOL ►** button.
<u>Result :</u>   The "**Enter Pin :----** " screen is displayed.

6   Enter 4-Digit Pin number.

<u>*NOTE :*</u>   The default Pin number for a new TV set is " **0-0-0-0** ".

7   After entering a valid Pin number, the V-Chip menu screen will appear.
Press the **CH ▼** or **CH ▲** button to select " **Change Pin** ".

8   Press the **VOL ◄** or **VOL ►** button.
<u>Result :</u>   The Change Pin screen is displayed.

Choose any 4-digits for your Pin and enter numbers.
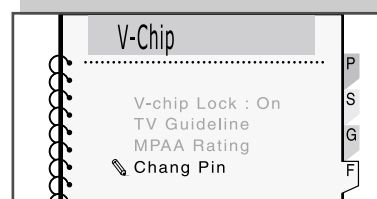*As soon as the 4-digits entered, the Confirm Pin screen will appear.*

Enter once again the same 4-digits.
When the Confirm Pin screen disappears, your Pin has been memorized.

9   When you have finished, press the **MENU** button repeatedly to return to normal viewing.

<u>*NOTE :*</u>   If you forgot the Pin, press the remote control keys in the following sequence, which resets the Pin to " **0-0-0-0** " :
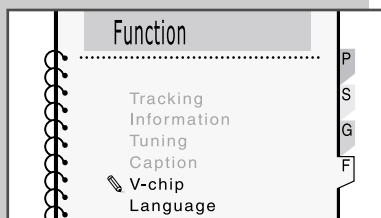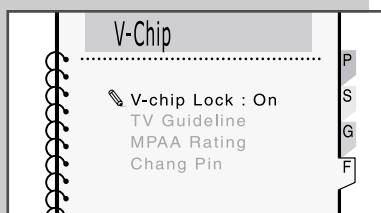*POWER OFF->MUTE-> 4 -> 5 -> 8 -> 2 -> POWER ON*

Function

Tracking
Information
Tuning
Caption
✎ V-chip
Language

P
S
G
F

Enter Pin: ----

V-Chip

V-chip Lock : On
TV Guideline
MPAA Rating
✎ Chang Pin

P
S
G
F

Change Pin: ----

Confirm Pin: ----

How to Enable/Disable the V-Chip (Option)

```
 ┌─────────────────────────┐
 │      Function         P │
 │ ......................  S │
 │   Tracking            G │
 │   Information           │
 │   Tuning              F │
 │   Caption               │
 │ ✎ V-chip                │
 │   Language              │
 └─────────────────────────┘
```
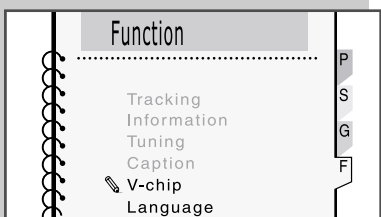
1   Press the **MENU** button.
    <u>Result :</u>   The " **INDEX**" menu is displayed**.**

2   Press the **CH ▼** or **CH ▲** button to select "**FUNCTION**".

3   Press the **VOL ◄** or **VOL ►** button
    <u>Result :</u>   The Function menu is displayed**.**

4   Press the **CH ▼** or **CH ▲** button to select "**V-Chip**".

```
 ┌─────────────────────────┐
 │                         │
 │    Enter Pin: ----       │
 │                         │
 └─────────────────────────┘
```

5   Press the **VOL ◄** or **VOL ►** button.
    <u>Result :</u>   The " **Enter PIN :----** " screen is displayed.

6   Enter 4-Digit PIN number**.**

```
 ┌─────────────────────────┐
 │      V-Chip           P │
 │                       S │
 │ ✎ V-chip Lock : On    G │
 │   TV Guideline          │
 │   MPAA Rating         F │
 │   Chang Pin             │
 └─────────────────────────┘
```

7   After entering a valid PIN number, the V-Chip menu is displayed and the V-Chip Lock will be highlighted.

    To enable or disable the V-Chip feature, press the VOL◄ or VOL ► button to select V-Chip Lock On/Off.

How to Setup Restriction Using the "TV Guide Line" (Option)

First, set up a Personal Identification Number(PIN), and enable the V-Chip. (See previous section.) Parental restrictions can be set up using either of two methods :
The TV Guide Line or MPAA Rating

```
 ┌─────────────────────────┐
 │      Function         P │
 │ ......................  S │
 │   Tracking            G │
 │   Information           │
 │   Tuning              F │
 │   Caption               │
 │ ✎ V-chip                │
 │   Language              │
 └─────────────────────────┘
```

1   Press the MENU button**.**
    <u>Result :</u>   The " INDEX" menu is displayed**.**

2   Press the **CH ▼** or **CH ▲** button to select "**FUNCTION**".

3   Press the **VOL ◄** or **VOL ►** button
    <u>Result :</u>   The Function menu is displayed**.**

4   Press the **CH ▼** or **CH ▲** button to select " **V-Chip**".

```
 ┌─────────────────────────┐
 │                         │
 │    Enter Pin: ----       │
 │                         │
 └─────────────────────────┘
```

5   Press the **VOL ◄** or **VOL ►** button**.**
    <u>Result :</u>   The " **Enter Pin :----** " screen is displayed.

6   Enter 4-Digit PIN number**.**

How to Setup Restriction Using the "TV Guide Line" (Option)

7 After entering a valid PIN number, the V-Chip menu screen will
appear. Press the **CH ▼** or **CH ▲** button to select " **TV Guide Line**".

8 Press the **VOL ◄** or **VOL ►** button.
<u>Result</u> : The TV Guide Line screen is displayed.

9 Press the **CH ▼** or **CH ▲** button to select one of the six age-based
categories :

TV-Y	Young children
TV-Y7	Children 7 and Over
TV-G	General audience
TV-PG	Parental guidance
TV-14	Viewers 14 and Over
TV-MA	Mature audience

<u>NOTE :</u>   *These categories consist of two separate groups :*
TV-Y and TV-Y7(young children through age 7), and
TV-G through TV-MA (everybody else).

The restrictions for these two groups work independently:
If a household includes very young children as well as young
adults, the TV guidelines must be set up separately for each
age group.

10 At this point, one of the TV-Ratings is selected.
Press the **CH ▼** or **CH ▲** button:
Depending on your existing setup, a letter "U" or "B" will be
highlighted. *(U = Unblocked, B = Blocked)*

11 *While the "U" or "B" is highlighted, press the* **VOL ◄** *or* **VOL ►**
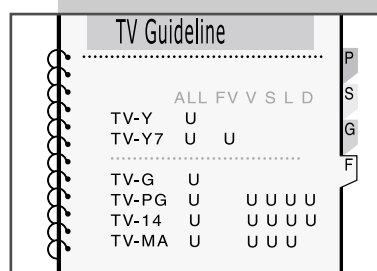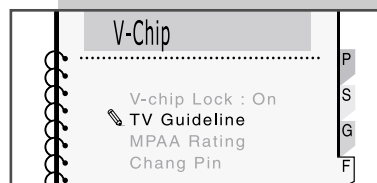*button to block or unblock the category.*

To select a different TV-Rating, press the **CH ▼** *or* **CH ▲** *button*
not to be highlighted any of the letter "U" or "B" and repeat the
process.

<u>NOTE 1:</u>   The TV-Y7,TV-PG,TV-14 and TV-MA have additional options.
See the next step to change.

FV		Fantasy Violence
V	. . . .	Violence
S	. . . .	Sexual Situation
L	. . . .	Adult Language
D	. . . .	Sexual Suggestive Dialog

<u>NOTE 2:</u>   The V-Chip will automatically block certain categories that
are "more restrictive".

For example, if you block TV-Y category, then TV-Y7 will be
automatically blocked.
Similarly, if you block the TV-G category, then all the categories in
the "young adult" will be blocked (TV-G, TV-PG, TV-14 and TV-MA).
The sub-ratings(FV, D, L, S, V) work together similarly.
(See next Section.)

V-Chip

V-chip Lock : On
✎ TV Guideline
MPAA Rating
Chang Pin

P
S
G
F

TV Guideline

	ALL	FV	V	S	L	D
TV-Y	U					
TV-Y7	U	U				
TV-G	U					
TV-PG	U		U	U	U	U
TV-14	U		U	U	U	U
TV-MA	U		U	U	U	

P
S
G
F

12 *How to set the FV, D, L, S and V sub-ratings.*
First, select one of these TV-Ratings :
TV-Y7, TV-PG, TV-14 or TV-MA. (See step 9.)
Next, while the TV-Rating is highlighted, repeatedly press
the **VOL** button.
This will cycle through the available sub-ratings **(FV, L, S, D or V)** .
A highlighted letter ("**U**" or "**B**") will be displayed or each sub-rating.
While the "**U**" or "**B**" is highlighted, Press the **CH ▼** or **CH ▲** button
to change the sub-rating.

To select a different TV-Rating, press the **CH ▼** or **CH ▲** button not
to be highlighted any of the letter "**U**" or "**B**" and repeat the process.

NOTE :   The V-Chip will automatically block certain categories that
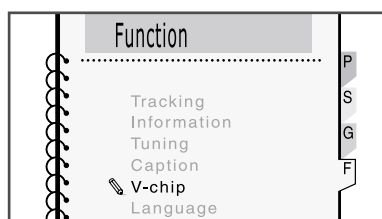are "**More restrictive**".

*For example, if you block "L" sub-rating in TV-PG, then the "L"
sub-rating in TV-14 and TV-MA will be automatically blocked.*

13   When you have finished, press the MENU button repeatedly to
return to normal viewing.

How to Setup Restriction Using the MPAA Rating (Option)

The MPAA Rating system uses the Motion Picture Association of America(MPAA) system, and its main application is for movies.
(Eventually, movie videocassette will be encoded with MPAA Ratings.)
When the V-Chip Lock is On, the TV will automatically block any programs that are with objectionable ratings.
(either MPAA or TV Ratings)
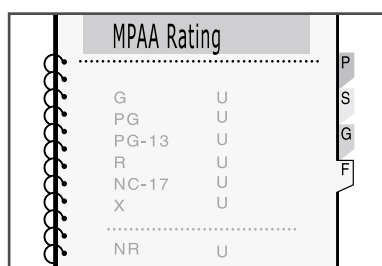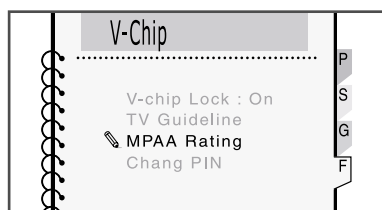
```
┌─────────────────────────┐
│      Function         P │
│   ····················  S│
│   Tracking            G │
│   Information           │
│   Tuning             F  │
│   Caption               │
│   ✎ V-chip              │
│   Language              │
└─────────────────────────┘
```

1   Press the **MENU** button.
<u>Result</u> :   The "**INDEX**" menu is displayed.

2   Press the **CH ▼** or **CH ▲** button to select "**FUNCTION**".

3   Press the **VOL ◄** or **VOL ►** button
<u>Result</u> :   The Function menu is displayed.

4   Press the **CH ▼** or **CH ▲** button to select "**V-Chip**".

```
┌─────────────────────────┐
│                         │
│     Enter Pin: ----      │
│                         │
└─────────────────────────┘
```

5   Press the **VOL ◄** or **VOL ►** button.
<u>Result</u> :   The "Enter Pin :---- " screen is displayed.

6   Enter 4-Digit Pin number.

```
┌─────────────────────────┐
│      V-Chip          P  │
│   ····················  S│
│   V-chip Lock : On   G  │
│   TV Guideline          │
│   ✎ MPAA Rating      F  │
│   Chang PIN             │
└─────────────────────────┘
```

7   After entering a valid Pin number, the V-Chip menu screen will appear. Press the **CH ▼** or **CH ▲** button to select "**MPAA Rating**".

8   Press the **VOL ◄** or **VOL ►** button.
<u>Result</u> :   The MPAA Rating screen is displayed.

```
┌─────────────────────────┐
│    MPAA Rating       P  │
│   ····················  S│
│   G          U       G  │
│   PG         U          │
│   PG-13      U       F  │
│   R          U          │
│   NC-17      U          │
│   X          U          │
│   ··················    │
│   NR         U          │
└─────────────────────────┘
```

9   Press the **CH ▼** or **CH ▲** button to select particular MPAA category. The **CH ▼** or **CH ▲** button will cycle through the MPAA categories.

G	:General audience (no restrictions).
PG	:Parental guidance suggested.
PG-13	:Parents strongly cautioned.
R	:Restricted. Children under 17 should be accompanied by an adult.
NC-17	:No children under age 17.
X	:Adults only
NR	:Not rated.

10   While a particular category is selected, press the **VOL ◄** or **VOL ►** button to active it.
A highlighted letter ("**U**" or "**B**") will be displayed.
Press the **CH ▼** or **CH ▲** button to change the "**U**" or "**B**".

<u>NOTE :</u>   The V-Chip will automatically block any category that is " **more restrictive**".

For example, if you block the PG-13 category, then R, NC-17, and X will be automatically blocked also.

*If the TV is turned to a restricted channel, the V-Chip will block it.
The screen will go blank , the sound will be muted and following
message will appear : "**Excessive Rating**"*

*To resume normal viewing, turn to a different channel by using the
number buttons. Under certain conditions (depending on the rating
of the local TV programs) the V-Chip might lock out all the channels.
In this case, you can turn V-Chip feature off by following sequence.*
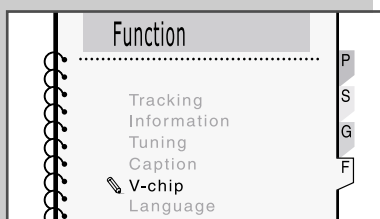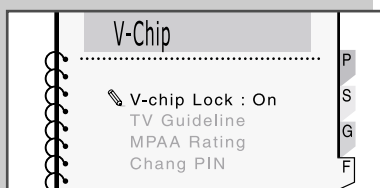
Function

P
S
G
F

- Tracking
- Information
- Tuning
- Caption
- ✎ V-chip
- Language

1 Press the **MENU** button.
<u>Result :</u>   The "**INDEX**" menu is displayed.

2   Press the **CH ▼** or **CH ▲** button to select "**FUNCTION**".

3 Press the **VOL ◄** or **VOL ►** button
<u>Result :</u>   The Function menu is displayed.

Enter Pin: ----

4 Press the **CH ▼** or **CH ▲** button to select "**V-Chip**".

5 Press the **VOL ◄** or **VOL ►** button.
<u>Result :</u>   The "**Enter PIN :----** " screen is displayed.

6 Enter 4-Digit PIN number.

V-Chip

P
S
G
F

- ✎ V-chip Lock : On
- TV Guideline
- MPAA Rating
- Chang PIN

7 After entering a valid PIN number, the V-Chip menu screen will
appear and V-Chip Lock will be highlighted.
Press the **VOL ◄** or **VOL ►** button to temporarily disable
the V-Chip Lock feature.

Connecting a PC

DC Power
Supply/Adapter
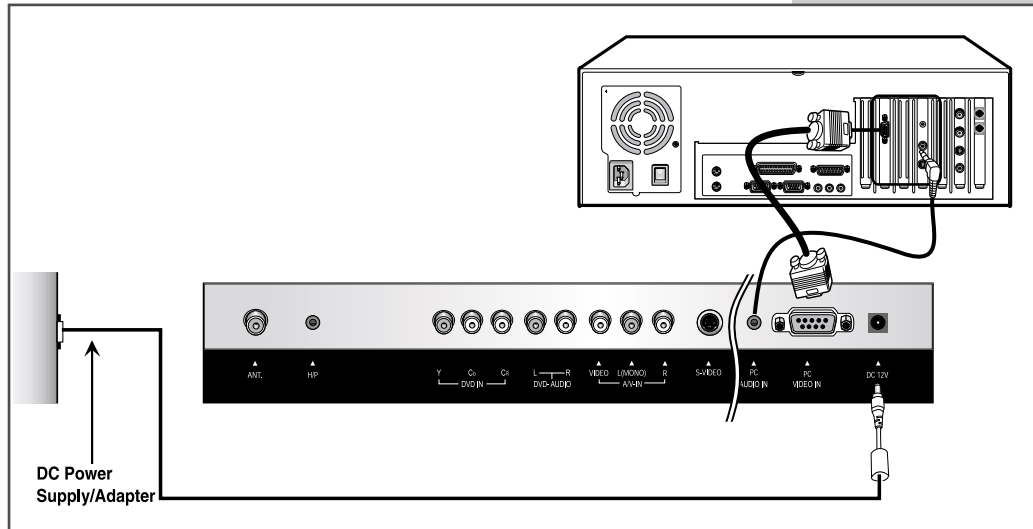
1 Turn off your computer and LCD TV.

2 Connect a PC D-Sub cable between your PC and PC-VIDEO-IN of the LCD TV.
And then fasten the screws of both sides of the cable.

3 Connect a PC Audio Cable between the Sound Output Jack of the sound card on a PC and the PC-AUDIO-IN of the LCD TV.

4 Connect a DC Power unit cable to the Power Jack on the rear of your LCD TV.
And connect a power cable to the DC Power Unit before connecting to a power outlet.

5 Power on the computer before turning on the LCD TV.

Initial set PC mode

1 Power on your LCD TVby pressing the **POWER** button on the main set or on the remote controller.

2 Press the **PC** button on the remote controller to switch to the **PC** mode.
Then the PC screen is automatically set.
When a CD-Title runs, the music is output from speakers.
(You can use an external speaker via the Audio Output jack on the rear of the main set.)


29
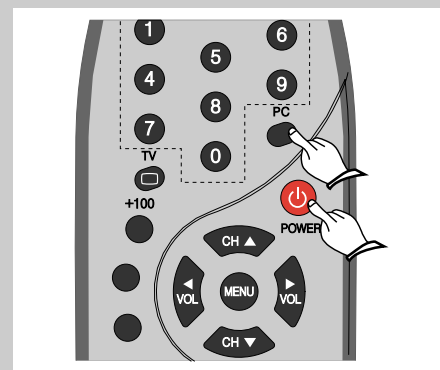
When the picture is unstable
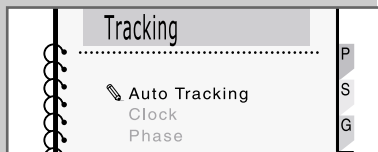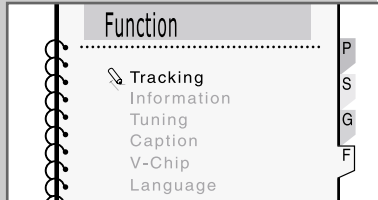
```
Function
 ✎ Tracking
   Information
   Tuning
   Caption
   V-Chip
   Language
```
P
S
G
F

1   Press the **MENU** button.
Result :   The **INDEX** menu is displayed.

2   Press the **CH ▼** or **CH ▲** button to select the "**FUNCTION**".

3   Press the **VOL ◄** or **VOL ►** button to select the "**Tracking**",
then press the **VOL ◄** or **VOL ►** button.
Result :   The "**TRACKING**" menu will be displayed.

```
Tracking
 ✎ Auto Tracking
   Clock
   Phase
```
P
S
G

4   Press the **VOL ◄** or **VOL ►** button.
Result :   The message "**Auto Tracking Processing...**"
appears on the screen to stabilize the screen.

5   When you are satisfied with the settings, press the **MENU** button
repeatedly to return to normal viewing.

Adjusting the Picture settings

_Your LCD TV has several settings which allow you to control
picture quality:_

Contrast , Brightness, Color Temperature

```
Picture
 ✎ Contrast
   Brightness
   Color Temperature
```
P
S
G
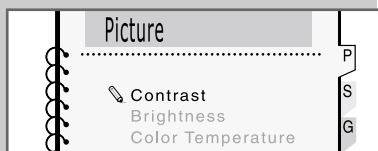
1   Press the **MENU** button.
Result :   The **INDEX** menu is displayed.

2   Press the **VOL ◄** or **VOL ►** button to select the "**PICTURE**".
Result :   The Picture menu is displayed.

3   Press the **CH ▼** or **CH ▲** button to select one of the following
options:
Contrast
Brightness
Color Temperature

```
Contrast          15
◄ |            |        ►
```

4   Press the **VOL ◄** or **VOL ►** button.

5   Adjust to satisfy your preference by pressing the **VOL ◄** or **VOL ►**
button.
   ■ **Contrast:**
     Adjust the brightness and darkness between objects and back
     grounds.
   ■ **Brightness :**
     Adjust the overall of the screen brighter or darker.
   ■ **Color Temperature :**
     The tone of color can be changed from reddish white to bluish
     white. The individual color components are also user
   customizable.

Adjusting the Picture settings

6500K	STANDARD	9300K	USER	RESET
Redish white	Plain white	Blueish white	User customizable	Factorn default value

Adjusting the Color Temperature setting

1. Press the **CH ▼** or **CH ▲** button to select "**Color Temperature**" in Picture mode.
2. Press the **VOL ◄** or **VOL ►** button.
3. Press the **VOL ◄** or **VOL ►** button to select "User".
4. Press the **MENU** button.
   Result :   User menu is displayed.
5. Press the **CH ▼** or **CH ▲** button to select one of the following options:
   Red Gain, Blue Gain, Green Gain, Red Bias, Blue Bias, Green Bias
6. Press the **VOL ◄** or **VOL ►** button.
7. Adjust to satisfy your preference by pressing the **VOL ◄** or **VOL ►** button.

6   When you are satisfied with the settings, press the **MENU** button repeatedly to return to normal viewing.

Picture
....
P
S
Contrast
Brightness
✎ Color Temperature
G
F

Color Temperature
....
P
S
✎ Mode : User
Red Gain
Blue Gain
Green Gain
Red Bias
Blue Bias
Green Bias
Reset
G
F
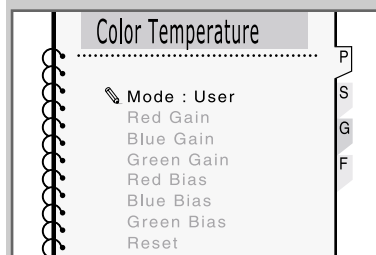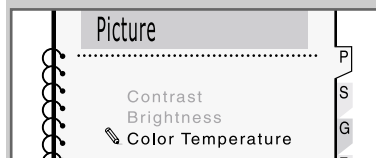
Adjusting the Sound settings(Option)

Adjusting the sound settings
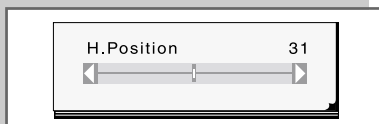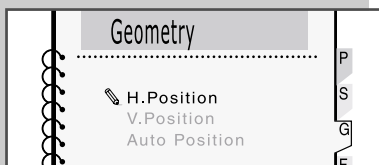*The sound settings can be adjusted to suit your personal preference :*

Treble, Bass, Balance, MTS

1   Press the **MENU** button.
         Result: The **INDEX** menu is displayed.

2   Press the **CH ▼** or **CH ▲** button to select the "**SOUND**".

3   Press the **CH ▼** or **CH ▲** button to select one of the following options:
         Treble, Bass, Balance, MTS

4   Press the **VOL ◄** or **VOL ►** button.
         Result :   The horizontal bar is displayed.

5   Adjust to satisfy your preference by pressing the **VOL ◄** or **VOL ►** button.
         (MTS) :   To select **Stereo** or **Mono**.

6   When you are satisfied with the settings, press the **MENU** button repeatedly to return to normal viewing.

Sound
....
P
S
✎ Treble
Bass
Balance
MTS
G
F

Treble   15
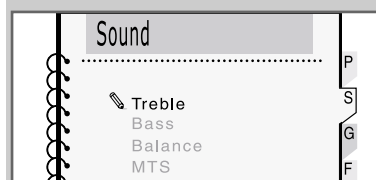
S.Mode :   Mono
◄ ► :   Select

Adjusting the Geometry settings

The geometry settings can be adjusted to center your viewing screen.

```
Geometry                    P
                            S
✎ H.Position                G
  V.Position
  Auto Position             F
```

1 Press the MENU button.
Result : The INDEX menu is displayed.

2 Press the **CH ▼** or **CH ▲** button to select "**GEOMETRY**".

3 Press the **VOL ◄** or **VOL ►** button.

4 Press the **CH ▼** or **CH ▲** button to select one of the following options:
H.Position, V.Position, Auto Position

```
H.Position          31
◄|  |——————|————|  |►
```

5 Press the **VOL ◄** or **VOL ►** button.
Result : The horizontal bar is displayed.

6 Adjust to satisfy your preference by pressing the **VOL ◄** or **VOL ►** button.

If the position of screen is horizontally off-centered, use *H.Position*.
If the position of screen is vertically off-centered, *use V.Position*.
Use the *Auto Position* to position the screen to be horizontally and vertically centered automatically.

7 When you are satisfied with the settings, press the **MENU** button repeatedly to return to normal viewing.

PC stable adjustment
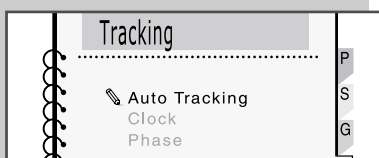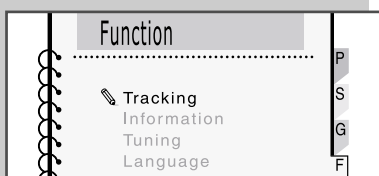
When the screen is unstable in PC settings, or to make your PC stable by adjusting the Clock and Phase, set the PC in the following sequence:

```
Function                    P
                            S
✎ Tracking                  G
  Information
  Tuning
  Language                  F
```

1 Press the MENU button.
Result : The INDEX menu is displayed.

2 Press the **CH ▼** or **CH ▲** button to select "**FUNCTION**".

3 Press the **VOL ◄** or **VOL ►** button.
Result : The Function menu is displayed.

```
Tracking                    P
                            S
✎ Auto Tracking             G
  Clock
  Phase                     F
```

4 Press the **VOL ◄** or **VOL ►** button to select "**Tracking**".
Result: The Tracking menu is displayed.

5 Press the **CH ▼** or **CH ▲** button to select one of the following options:
Auto Tracking, Clock, Phase

PC stable adjustment

6   To adjust the..   Press the...
          Auto Tracking   VOL ◄ or VOL ► button.
   The message "**Auto Tracking Processing...**"
                                appears on the screen to stabilize the screen.
          CLOCK   VOL ◄ or VOL ► button.
          PHASE   VOL ◄ or VOL ► button.

NOTE :   **Auto Tracking :**
           Automatically optimizes the status of screen.
           This is recommended to perform for new PC.

           Clock :
           Adjusts the horizontal size of screen by increasing /
   decreasing the number of pixels.

           Phase :
           Sets the focus of screen.
           Adjusts when some noise exists or the character lines are
           seen overlapped.

7   When you are satisfied with the settings, press the **MENU** button
          repeatedly to return to normal viewing.

Clock	130
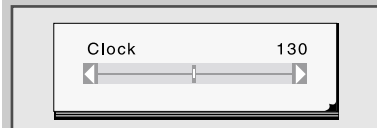
When using as desk-top type

Rotate the stand as shown in the below figure with pressing the Fold Button, and stand LCD TV.

1

2

30°

SIDE FIGURE
(ROTATION ANGLE)
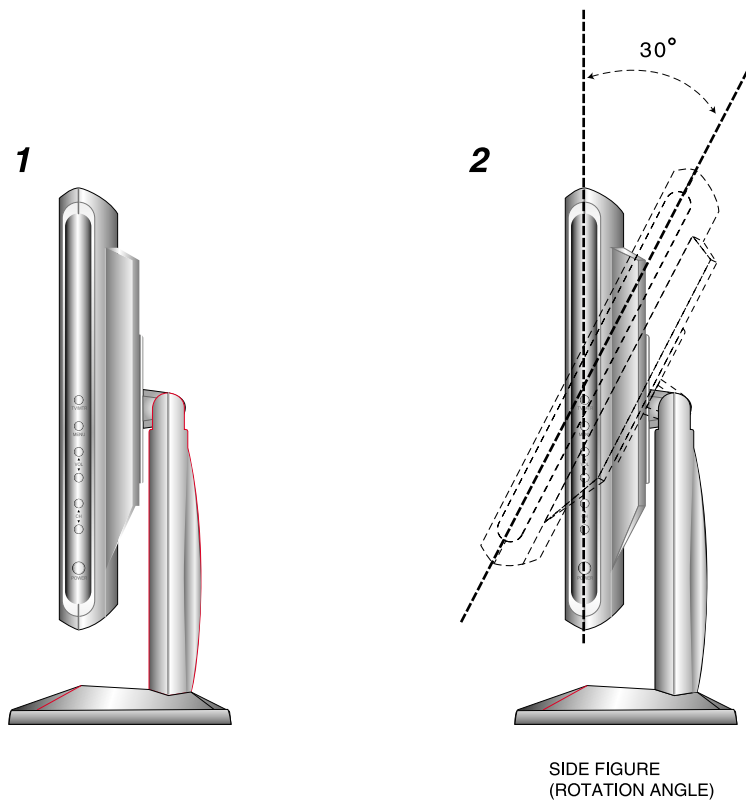
Caution!

- Make slope up to 20 degree after standing up the LCD TV. In this case, you need not press the Fold Button.

- Press and rotate the Fold Button once again in case of entirely folding the stand backward.

- Do not rotate the stand by applying excessive force with the Fold Button not pressed. The connection part between stand and liquid monitor may be damaged.

When using VESA standard wall-mounting devices

SCREW

SCREW

ARM

WALL MOUNTED
BRACKET
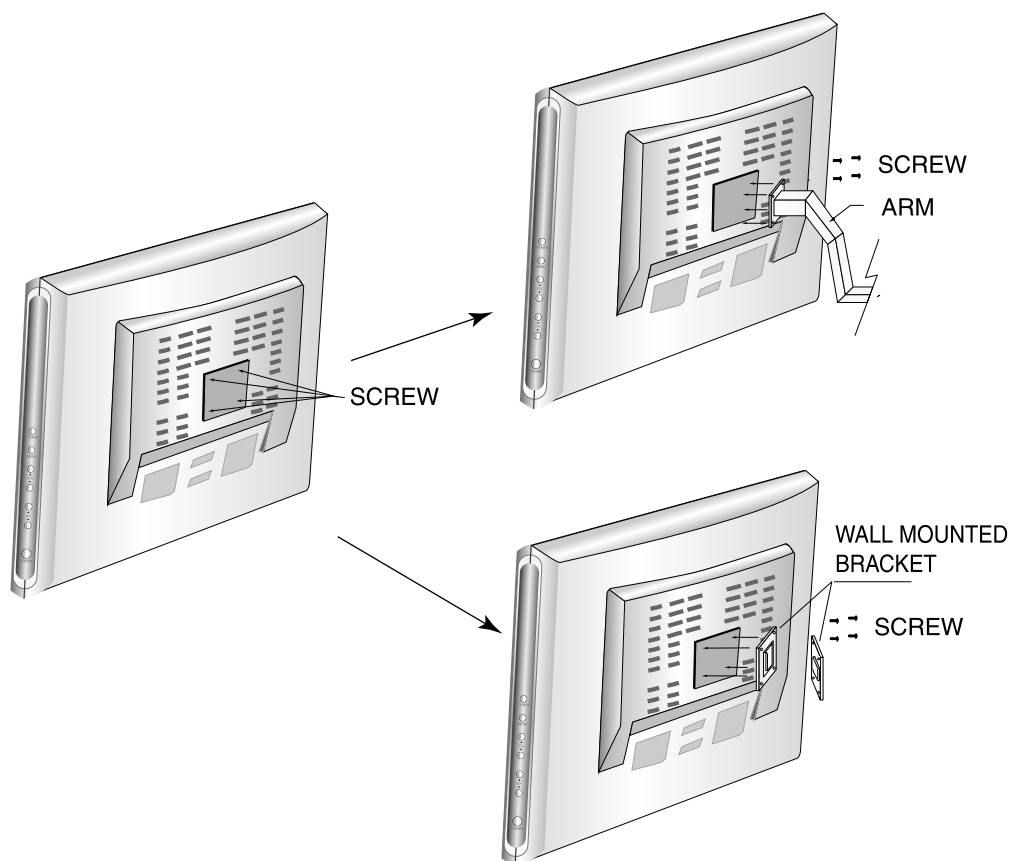
SCREW

1. Remove a hinge cover.

2. Remove the stand after loosing screws fixing the stand.

3. Fix Arm or wall-mounted bracket at the screw holes (4 places)
   located in the middle part of the rear LCD TV, with screws.

APPENDIX A: Power saver

This monitor has a built-in power management system called Power saver. This system saves energy by switching your monitor into a low-power mode when it has not been used for a certain period of time. The available modes are "On", "Standby", "Sleep" and "Deep Sleep". Power Saver operates with a VESA DPMS compliant video card installed in your computer. You use a software utility installed on your computer to set up this feature. See below table for details.

State	Normal Operation	Power-Saving Function mode (EPA / ENERGY 2000)		
		Standby Mode	Sleep Mode Position A1	Deep Sleep Mode Position A2
Horizontal Sync Vertical Sync Video	Active Active Active	Inactive Active Blanked	Active Inactive Blanked	inactive Inactive Blanked
Power Indicator	Green	Amber	Amber Blinking (0.5 sec interval)	Amber Blinking (1 sec. interval)
Power Consumption	30W (Max.)	Less than 3W	Less than 3W	Less than 3W

NOTE :   This monitor automatically returns to normal operation when horizontal and vertical sync return. This occurs when you move the computer's mouse or press a key on the keyboard.

APPENDIX B : Display modes

If the signal from the system equals to the standard signal mode, the screen is adjusted automatically. If the signal from the system doesn't equal to the standard signal mode, adjust the mode with referring to the Videocard user guide because the screen might not display or only the power LED might be on. For the display modes listed below, the screen image has been optimized during manufacture.

Mode	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	
VGA	720 * 400	31,469	70,087	28,322	
	640 * 480	31,469	59,940	25,175	
	640 * 480	37,500	75,000	31,500	
	640 * 480	43,269	85,008	36,000	
SVGA	800 * 600	46,875	75,000	49,500	
	800 * 600	53,674	85,061	56,250	
XGA	1024 * 768	48,363	60,004	65,000	
	1024 * 768	60,023	75,029	78,750	
	1024 * 768	68,677	84,997	94,500	
SXGA	1280 * 1204	63,337	59,980	108,180	
	1280 * 1204	79,976	75,020	134,999	

APPENDIX C : Troubleshooting

If you have a problem setting up or using your LCD monitor, you may be able to solve it yourself.
Before contacting customer service, try the suggested actions that are appropriate to your problem.

What you see...	Suggested Actions	Reference
Screen is blank and power indicator is off	● Ensure that the power cord is firmly connected and the LCD monitor is on.	Connecting a PC, page 37.
"CHECK CABLE OR SIGNAL" message	● Ensure that the signal cable is firmly connected to the PC or video sources. ● Ensure that the PC or video sources are turned on.	Connecting a PC Page 37.
"INVALID MODE" message	● Check the maximum resolution and the frequency of the video adaptor. ● Compare these values with the data in the Display Modes Timing Chart.	PC Stable Adjustment, page 38,41. APPENDIX B: Display Modes page 45.
The image is too light or too dark	● Adjust the Brightness and Contrast.	BRIGHTNESS, page 17,38. CONTRAST. page 17,38.
Horizontal bars appear to flicker, jitter or shimmer on the image	● Adjust the Clock function. ● Auto Tracking will clear it automatically.	PC Stale Adjustment. page 38,41.
Vertical bars appear to flicker, jitter or shimmer on the image.	● Adjust the Phase function and then adjust the Clock function. ● Auto Tracking will clear it automatically.	
Screen is blank and power indicator light is steady amber or blinks every 0.5 or 1 seconds	● The monitor is using its power management system. ● Move the computer's mouse or press a key on the keyboard	APPENDIX A : Power Saver, page 45.
Image is not stable and may appear to vibrate	● Auto tracking will clear it automatically ● Check that the display resolution and frequency from your PC or video board is an available mode for your monitor. On your computer check : **Control Panel, Display, Settings**	PC Stable Adjustment, page 38.
Image is not centered on the screen.	● Auto Position will set the best position automatically ● Adjust the horizontal and vertical position.	AUTO POSITION, page 40. H-POSITION, page 40. V-POSITION, page 40.

APPENDIX C : Troubleshooting

Problem	Suggested Actions	Reference
No sound	● Ensure that the audio cable is firmly connected to both the audio-in jack on your monitor and the audio-out jack on your sound card.	Connecting a PC, TV or VCR, DVD page 16,37,41.
	● Check the volume level	Adjusting the Sound settings, page 18,39.
Sound level is too low	● Check the volume level	
	● If the volume is still too low after turning the control to its maximum, check the volume control on the computer sound card or software program.	Refer to your computer, sound card or software documentation.
Sound is too high pitched or too low pitched	● Adjust the Treble and Bass to appropriate level.	Adjusting the Sound Settings, page 18,39.
TV signal is not received	● Ensure that the antenna cable is firmly connected to the VHF/UHF jack.	Connecting to watch TV or VCR, DVD page 41,42.
	● Check "Channel Memory" and make sure you choose the correct channel system.(PAL Model)	Channel Memory, page 20~23.
	● Select "Auto Tuning" to configure the channel system automatically.(PAL Model)	
	● Check AIR/CATV is correctly selected on screen display menu. (NTSC Model)	Selecting Broadcast Source, page 24~25.

APPENDIX D : Specification

		20.1"	15.1"
Panel	Panel Type	20.1" (51cm) TFT Color LCD	15.1" (38cm) TFT Color LCD
	Display Area	408.0mm × 306.0mm	307.2mm × 230.4mm
	Display Color	16.7 million	16.7 million
	Pixel Pitch	0.6375mm × 0 6375mm	0.3mm × 0.3mm
	Recommended Resolution	640 × 480 @85Hz, 69KHz	1024 × 768 @ 85Hz
	Contrast Ratio	400:1 (Typical)	350:1 (Typical)
	Brightness	400cd/m²	400cd/m²
	Viewing Angle	H:140° V:120°	H: 120° V: 90°
	Scanning Frequency	H:31-69kHz V:56-85Hz	H: 31-69 kHz V: 56-85 Hz
In / Out	PC	Analog RGB 15 pin D-Sub PC Audio Input	Analog RGB15 pin D-Sub PC Audio Input
	Video	Composite Input S-Video In DVD (Y,Pb,Pr) Input	Composite Input S-Video In
	Audio	Composite Input DVD Input Head-phone Out	Composite Input Headphone Out
TV Signal	Antenna	75ohm Coaxial cable	75 ohm Coaxial cable
	Color System	NTSC-M	NTSC-M
	Stereo Type	MTS	MTS
	Surround Sound	Multi Channel Sound Virtual Surround Sound	
	Text	Caption	Caption
	V-Chip	Yes	Yes
Others	Certifications	UL, CSA, FCC, CE, EIAJ	UL, CSA, FCC, CE, EIAJ
	Power Consumption	50watts	30 watts
	Power Save Mode	3watts	3 watts
	Speaker	5watts × 2	3 watts × 2
	Plug & Play	DDC 1/2 B	DDC 1/2B
	Screen Control	On Screen Display Menu	On Screen Display Menu
	Weight	Net 13kg / Gross 15kg	Net 4.6kg / Gross 5.5kg
	Power Supply	DC12 volts	DC 12 volts
	Remote Controller	Yes	Yes
	Dimension	646mm(W) × 430mm(H)× 200mm(D)	380mm(W) × 297mm(H)× 168mm(D)

MEMO

MEMO