

JVC

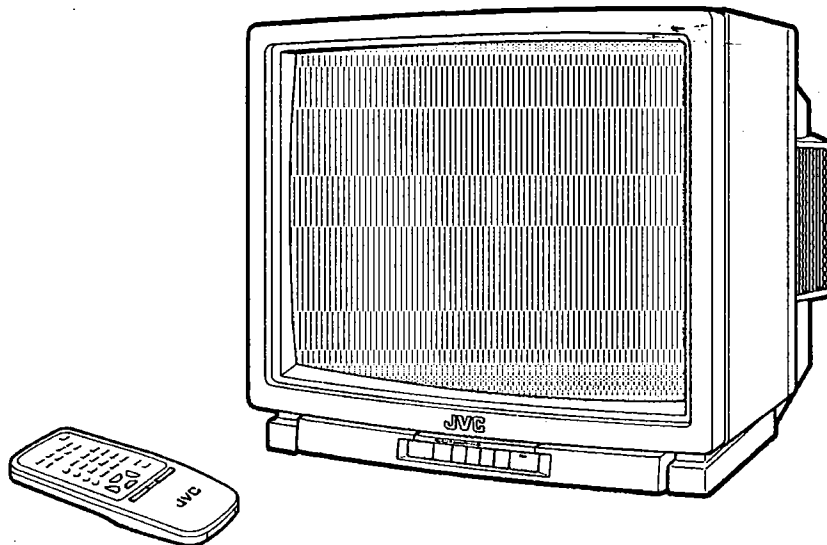
SERVICE MANUAL

27" COLOR MONITOR / RECEIVER

AV-2771S_(US)

BASIC CHASSIS

GX I



(NOTE)

Electrical components having special safety-related characteristics are identified by shading (■) on the schematic diagram and by "▲" on the parts list in SERVICE MANUAL. When replacing these components, be sure to use designated parts.

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SPECIFICATIONS

Item	Content
External dimensions	25-3/4" (Width) × 22-3/4" (Height) × 20-1/2" (Depth)
Weight	84.9lbs (38.6kg)
Power requirement	AC120V, 60Hz
Power consumption	147W (Max.), 103W (Avg.)
TV Reception system	
RF system	CCIR(M)
Color system	NTSC system, BTSC system (Multichannel sound)
TV receiving channel / frequency	
VHF Low band	2~6 / 54MHz~88MHz
VHF High band	7~13 / 174MHz~216MHz
UHF band	14~69 / 470MHz~806MHz
CATV receiving channel / frequency (Quartz synthesizer system)	
Low band	2~6 (02~06)
High band	7~13 (07~13)
Mid band	A~I (14~22)
Super band	J~W (23~36)
Hyper band	W + 1 ~ W + 28 (37~64)
Ultra band	W + 29 ~ W + 84 (65~94, 100~125)
Sub Mid band	A8, A4~A1 (01, 96~99)
TV / CATV total channel	180 channel
Intermediate frequency	
Video IF carrier	45.75MHz
Sound IF carrier	41.25MHz (2nd : 4.5MHz)
Chroma IF carrier	42.17MHz
Color sub carrier	3.58MHz
Picture tube	27-inch diagonally measured, In-Line type Full-Square tube
Viewable picture size	Width : 22" (55.6cm), Height : 16-1/2" (41.8cm)
High voltage	29kV (at zero beam current)
Focus voltage	Approx. 9.4kV
Audio power output	3W + 3W (8Ω)
Speaker	3-3/16inch × 4-3/4inch oval (×2)
Antenna input	75Ω (VHF/UHF in common) F-type connector
External video input	Video : 1Vp-p, 75Ω, RCA-pin connector Audio : 500mVrms (-4dBs), high impedance, RCA-pin connector
Line output	Video : 1Vp-p, 75Ω, RCA-pin connector Audio : 500mVrms (-4dBs), low impedance (400Hz when modulated 100%), RCA-pin connector
S-VIDEO input	Y : 1Vp-p, positive (negative sync, provided, 75Ω) C : 0.286Vp-p (burst signal, 75Ω)
Variable audio output	More than 0~1550mVrms (+6dBs), low impedance (400Hz when modulated 100%), RCA-pin connector
External speaker terminals	Impedance : 6~8Ω
Tube	1
ICs	33(in TV), 1(in Remote control unit)
Transistors	89(in TV), 2(in Remote control unit)
Fuses	△ QMF66U1-5R0S (5.0A) △ QMF53U1-1R25S (1.25A) △ QMF53U1-2R5S (2.5A)
Accessories	Remote control unit (RM-C687) AA-size dry cell battery ×2

Design & specification subject to change without notice.

FUNCTION BUTTONS

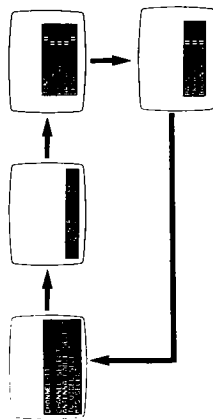
- Set the 3-way mode selector to the "TV" position. The FUNCTION button on the front panel selects the control modes for TV operation and picture/sound adjustment.
- Press FUNCTION button **1** on the front panel. The first time it is pressed, the following display appears on the screen.



- At this time, the top line shows the current channel number.

Press FUNCTION button **2** to select the desired item for adjustment. Each time the FUNCTION button is pressed, the magenta-colored portion shifts in the order below to show that the colored item in the list can be adjusted.

Note: Four pages of on-screen displays are available with the FUNCTION button.



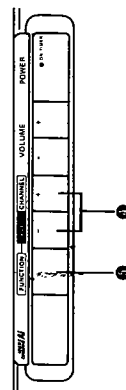
- CHANNEL SELECT mode
- ANTENNA/CABLE SELECT mode
- TV/VIDEO SELECT mode
- MTS SELECT mode
- VNR ON/OFF mode
- NOTCH ON/OFF mode
- TINT adjustment mode
- COLOR adjustment mode
- PICTURE adjustment mode
- BRIGHT adjustment mode
- DETAIL adjustment mode
- BASS adjustment mode
- TREBLE adjustment mode
- BALANCE adjustment mode

Note: The Remote Control's FUNCTION BACK button **3** or FORWARD button **4** selects only picture and sound adjustment modes: TINT, COLOR, PICTURE, BRIGHT, DETAIL, BASS, TREBLE and BALANCE. The other control modes can be selected directly with the Remote Control's respective buttons. Pressing FUNCTION FORWARD button **5** advances the colored portion in the order as shown on the left for picture/sound adjustment modes, pressing FUNCTION BACK button **6** advances in the reverse order.

- After selecting the desired mode, press LEVEL/CHANNEL (-/+) buttons **7** on the front panel or FUNCTION (-/+) buttons **8** on the Remote Control while the selected mode indication is being displayed to make your preferred adjustment. The Remote Control's FUNCTION (-/+) buttons **9** control only picture and sound adjustments.

Notes:

- When using the front panel buttons, before the FUNCTION button is pressed for the first time with nothing displayed on the screen, the TV is in the "CHANNEL SELECT" mode. Therefore, in this mode, channel selection is possible by pressing LEVEL/CHANNEL (-/+) buttons **7** on the front panel.
- After completing picture and sound adjustments from the Remote Control, pressing either FUNCTION (-) or (+) button **9** will return directly to the last chosen adjustment mode.



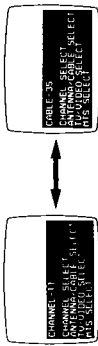
1 CHANNEL SELECT mode

In this mode, press LEVEL/CHANNEL (+) button **7** on the front panel to scan up the channels, and (-) button to scan down the channels.
(The screen illustrations below show the case when the TV is in the "CHANNEL" mode. When in the "CABLE" mode, the "CABLE" indication appears instead of "CHANNEL".)



2 ANTENNA/CABLE SELECT (broadcast) mode

In this mode, press LEVEL/CHANNEL (-/+) buttons **7** on the front panel to change the broadcast mode between "CHANNEL" (for regular UHF/VHF channels) and "CABLE" (for cable channels).



3 TV/VIDEO SELECT mode

In this mode, press LEVEL/CHANNEL (-/+) buttons **7** on the front panel to switch the mode between "TV" (for off-air or cable TV broadcasts) and "VIDEO" (for a video source connected to the TV's VIDEO/AUDIO INPUT connectors **1** or S-VIDEO IN connector **2**). See "CONNECTING TO EXTERNAL EQUIPMENT" on page 26.

Note: Mode selection can also be performed with TV/VIDEO button **8** on the Remote Control.



4 MTS SELECT mode

This TV set incorporates an MTS (Multichannel Television Sound) decoder to receive stereo broadcasts and any accompanying SAP (Second Audio Program), such as a bilingual broadcast.

Available sound will be:

- (1) Monaural (MAIN) audio program (regular broadcasts)
 - (2) STEREO (MAIN) audio program
 - (3) Second Audio Program (SAP)
- In this mode, the "ON AIR" shows that MTS mode is now being broadcast. Press LEVEL/CHANNEL (-/+) buttons **7** to change the reception mode among "STEREO", "SAP" and "MONO".

Each time it is pressed, the color of the indication changes from blue to magenta to show that the mode has just been switched.



Notes:

- Mode selection can also be performed with MAIN/SAP button **9**. Each time it is pressed, the mode changes in the order of "STEREO" — "SAP" — "MONO" — "STEREO".
- If the TV set is kept always set to the stereo mode, when a stereo broadcast is received, stereo sound is output automatically.
- If the received stereo signal is weak, noise may be heard. In such a case, press LEVEL/CHANNEL (-/+) buttons **7** (or MAIN/SAP button **9**) to engage the MONO mode for better sound reception.

- If the received SAP signal is weak, the SAP will not be heard. Select the MONO mode for better sound reception.
- Even if both stereo and SAP broadcasts are received, both broadcasts cannot be heard at a time.

When using the TV set for cable reception

Transmission of Cable TV signals may differ from off-air TV broadcasts. It is possible that the multichannel TV sound (MTS) may not be received satisfactorily.

5 VNR, NOTCH ON/OFF modes

In these modes, press LEVEL/CHANNEL (-/+) buttons **7** on the front panel to switch on and off the VNR and NOTCH functions. For details of those functions, see "MORE USEFUL FUNCTIONS" on page 22.



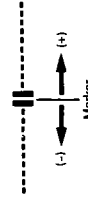
7 Picture/sound adjustment modes

In these modes, an adjustment scale with a marker appears on the screen. Press LEVEL/CHANNEL (-/+) buttons **7** on the front panel or FUNCTION (-/+) buttons **8** on the Remote Control to fine adjust each item to your preference according to the chart below. (The center position is only a reference level, rather than a standard setting.)

(-) (-)	Item	(+) (+)
Reddish	TINT	Greenish
Subdued	COLOR	Vivid
Light	PICTURE	Strong
Dark	BRIGHT	Bright
Soft	DETAIL	Sharp
Soft	BASS	Strong
Soft	TREBLE	Strong
Left	BALANCE	Right

Note: When you wish to restore all adjustment modes to their scale's center position, use AV STATUS/RESET button **10**. For details, see "AV STATUS/RESET Button" on page 17.

TINT

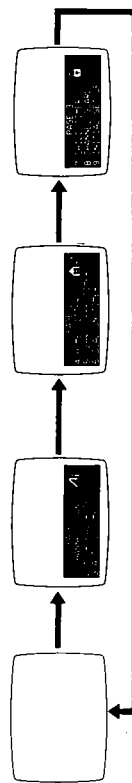


MENU BUTTON

The diagram shows the front of a Casio FX-991EX calculator. Numbered callouts point to the following features:

- 1: Power button
- 2: Memory Clear (MC) button
- 3: Memory Plus/Minus (M \pm) button
- 4: Memory Store (M \rightarrow) button
- 5: Memory Recall (M \leftarrow) button
- 6: Memory Read/Write (MR/MC) button
- 7: Memory Plus/Minus (M \pm) button
- 8: Memory Store (M \rightarrow) button
- 9: Memory Recall (M \leftarrow) button
- 10: Memory Read/Write (MR/MC) button

-
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1. CHANNEL SCAN

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Notes:

- When the TV is in the "CABLE" mode, the "CABLE" indication appears on the screen instead of "CHANNEL".

- **Notes:**
 - When the TV is in the "CHANNEL" mode, the "CHANNEL" indication appears on the screen instead of "CHANNEL".
 - For changing memorized channels, see 3. INITIAL SET-UP.
 - If you wish to start CHANNEL SCAN at a specific channel, first select the broadcast mode ("CHANNEL" or "CHANNEL") then that channel number, and then follow instructions on the left.
 - While actual CHANNEL SCAN is being performed, all front panel buttons become inoperable.
 - In the VIDEO mode, if the CHANNEL SCAN menu is selected, the mode is switched to the TV mode; the CHANNEL SCAN function does not operate in the VIDEO mode.



This feature displays Real Channels in two categories, "DAYTIME" and "EVENING", by ranking the three most-frequently-viewed channels in each category. Any of the channels displayed on the screen can also be tuned to directly using the 10-digit keypad.

- 2) When you see the program you want to view, press "1", "2" or "3", corresponding to the number indicating the channel.

● When the clock has not been set or is not operating, "YOUR FAVORITES" cannot be operated.

- Notes:**



FROM 2 30C 3 NBC
TO SELECT, PRESS 1-3

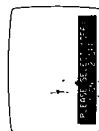
Normally, you adjust volume at different times of the day. For example, you tend to turn down the volume when watching TV late at night. This feature memorizes all volume adjustments you make for five days after the clock is set. After that, volume is automatically adjusted according to the pattern of adjustments you made at specific times during that five-day period.

- 2) Press "1" to set the AUTO VOLUME function to ON. (Press "2" for OFF).
- While AUTO VOLUME is ON, the following "AUTO" indication appears on the upper part of the volume level reference scale.



- When the clock has not been set or is not operating, the AUTO VOLUME function cannot be operated. Also, for five days after the clock has been set, AUTO VOLUME does not operate, since that amount of time is required for storing the data of volume levels for each period of time in memory. (When power is off, the muting function is operated, the clock is not operating, or audio volume controls are adjusted, the volume level data is not stored in memory.)

- Notes:**



PAGE-2

4. HOME SITTER

The "HOME SITTER" feature enables the TV to be turned on and off automatically at preset times every day. With "PAGE-2" (or "PAGE-1" or "PAGE-3") MENU displayed on the screen, press "4" of 10-digit keypad. The display will show:



- At this time, if the display of "POWER INTERRUPTED / WOULD YOU SET CLOCK FIRST?" appears, it shows that the clock is not operating, and the HOME SITTER will not function.
- Press "1" (YES) to set the clock. (If "2" (NO) is pressed, the message "YOU CANNOT OPERATE HOME SITTER!" is displayed.)
- Set the clock. See "3" SET CLOCK" of "9. INITIAL SET-UP" on page 16 for details regarding clock setting. After setting the clock, the message "THANK YOU!" appears to show that the clock has just been adjusted and the HOME SITTER is now ready to be set.

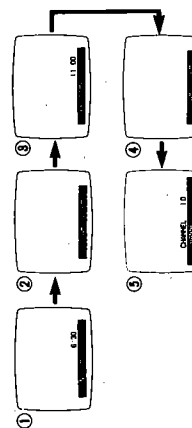
1) SET

Press "1" to place the HOME SITTER in standby. The ON/OFF time and channel number which have been previously set will be displayed. When the POWER button is pressed to turn the TV off, POWERON TIMER indicator lights and "YES" appears on the screen to show that the HOME SITTER is in operation.

- 2) CANCEL**
Press "2" to cancel the HOME SITTER. "NO" appears to show that the HOME SITTER has been cancelled.

3) CHANGE

Press "3" to re-adjust the HOME SITTER setting. Follow the on-screen displays to set the switch-on time, switch-off time and channel number, using the 10-digit keypad.



- Set the switch-on time.
- Select "AM" or "PM".
- Set the switch-off time.
- Select "AM" or "PM".
- Set the channel number.

When the channel number is set, the display will show:



- This display shows that the HOME SITTER is set to switch the TV on at 6:30 PM, switch it off at 11:00 PM and the channel to be received is "CABLE 13".

Notes:

- If an invalid time or channel number is selected, it will be rejected and it must be reset properly.
- If you wish to reset the switch-on time only, stop keying in data (waiting until the on-screen display disappears) after keying in the AM/PM setting, or press keys other than the 10-digit keypad. And, if you wish to reset the switch-on and switch-off time only, the procedure is the same.
- The function that automatically turns the TV off for the ON TIMER, if no TV operation is performed after 2 hours, does not operate for the HOME SITTER.
- If the power is disconnected (such as in a power failure, etc.), and reconnected later, the HOME SITTER will be cancelled. When disconnected only for a couple of minutes, the HOME SITTER is reactivated; however, it turns the TV on and off later than the set time by the amount of time of interruption.
- If the channel which has already been set as a "Guarded Channel" is selected, that channel is rejected and cannot be set for the HOME SITTER. (For details of the Guarded Channels, see page 13.)

5. 12HR SLEEP TIMER

The "12HR SLEEP TIMER" feature allows you to turn off your TV automatically at a preset time.

- With "PAGE-2" (or "PAGE-1" or "PAGE-3") MENU displayed on the screen, press "5" of 10-digit keypad. The display will show:



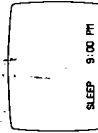
- If the built-in clock has not been set to operate properly, the 12HR SLEEP TIMER will not function. In this case, the following display will appear on the screen to show that the clock requires adjustment.



Press "1" (YES) of the 10-digit keypad to adjust the clock. (If "2" (NO) is pressed, the warning message "YOU CANNOT OPERATE SLEEP TIMER!" is displayed.)
Set the built-in clock. (See "3" SET CLOCK" of "9. INITIAL SET-UP" on page 16 for details.) When the clock is adjusted, the message "THANK YOU!" appears. Then, the following display appears to show that the SLEEP TIMER is now ready to be set.

- Press the numbers on the 10-digit keypad to set the desired switch-off time. The 12HR SLEEP TIMER can be set for up to 11 hours 59 minutes from the current time.

For example, if it is now 7:00 PM, and you want the TV to switch off automatically at 9:00 PM, press "9", "0", "0". (The "AM/PM" setting is done automatically.) The selected time of "9:00 PM" appears.



- When you select "1" for hour setting (for example, "1:05 AM"), remember to press "0" first, then press "1", "0" and "5".
- To cancel the 12HR SLEEP TIMER setting, key in the current time (the current time setting of the TV's built-in clock).

Notes:

- If an invalid time is selected (for example: "5:87"), it will be rejected and the 12HR SLEEP TIMER must be reset properly.
- While the 12HR SLEEP TIMER is activated, if the POWER button is pressed to turn the power off and on again, the 12HR SLEEP TIMER will be cancelled.
- While the 12HR SLEEP TIMER is activated, if the power is disconnected (such as in the case of power failure, etc.) and reconnected later, the TV is turned off. When disconnected only for a couple of minutes, the 12HR SLEEP TIMER is re-activated; however, it turns the TV off later than the set time by the amount of time of interruption.
- The 12HR SLEEP TIMER may turn off the TV a little earlier than the preset time.
- When the remaining time reaches 1 minute, the following message appears for a few seconds and "GOOD NIGHT" continues to blink. While the display remains on the screen, each pressing of the FUNCTION FORWARD button (▼) on the Remote Control will delay the turn-off time by 15 minutes.



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6. DUAL ON TIMER

The "DUAL ON TIMER" feature allows you to turn on your TV automatically at a preset time and on a specific channel. The DUAL ON TIMER is available for 2 different settings.

With "PAGE-2" (or "PAGE-1" or "PAGE-3") MENU displayed on the screen, press "6" of 10-digit keypad. The display will show:



- At this time, if the display of "POWER INTERRUPTED/ WOULD YOU SET CLOCK FIRST?" (which may appear during the 12HR SLEEP TIMER procedure) appears, it shows that the clock is not operating, and the DUAL ON TIMER will not function.

Press "1" (YES) to set the clock. (If "2" (NO) is pressed, the warning message "YOU CANNOT OPERATE ON TIMER!" is displayed.)

Set the clock. See "3) SET CLOCK" of "9. INITIAL SET-UP" on page 16 for details regarding clock setting. After the clock has been set, the message "THANK YOU!" appears to show that the clock has just been adjusted and the DUAL ON TIME is now ready to be set.

Two different settings are possible. Press "1" or "2" to select the setting position. The display will show:



- The second from the bottom line shows the preset time if already previously set.

1) SET

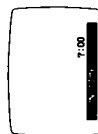
Press "1" to start the DUAL ON TIMER for turning the TV on automatically at the preset time shown. "YES" appears to show that the DUAL ON TIMER has started.

2) CANCEL

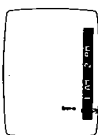
Press "2" to cancel the setting. "NO" appears to show that the DUAL ON TIMER has been cancelled.

3) CHANGE

Press "3" to re-adjust the setting. Then, the following display appears.



Press the numbers on the 10-digit keypad to set the desired switch-on time. For example, if you want the TV to switch on automatically for CHANNEL 12 at 7:00 AM, press "7", "0" and "0". (When you select "1" for hour setting, remember to press "0" first, then press "1".) The selected time of "7:00" appears and immediately the display changes to:



Then, press "1" to select the "AM" setting. (Press "2" to select the "PM" setting.) Then, the following display appears. Press "1" and "2" for specifying "CHANNEL 12".



Now the following display appears on the screen to show the DUAL ON TIMER is set to 7:00 AM, CHANNEL 12. With the <YES> indicating the DUAL ON TIMER has started. Finally, press POWER button to turn the power off. POWER ON TIMER indicator remains lit to show that the DUAL ON TIMER is in operation.



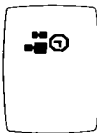
Notes:

- If an invalid time is selected (for example: "17:70"), it will be rejected and the DUAL ON TIMER must be reset properly.
- After the DUAL ON TIMER has been properly set, it functions only once for each setting (up to 2 settings are possible) to turn on the TV's power. (It does not operate repeatedly every day at the same time as a serial time.)
- Once the DUAL ON TIMER turns the TV on automatically, if the TV is not operated in any way, after 2 hours the TV will turn off automatically for safety. A single adjustment, even audio level adjustment or channel selection, will cancel this switch-off function.
- While the DUAL ON TIMER is activated, if the power is disconnected (such as in the case of power failure, etc.) and reapplied later, the DUAL ON TIMER is cancelled. When disconnected only for a couple of minutes, the DUAL ON TIMER is reactivated; however, it turns the TV on later than the set time by the amount of time of interruption.
- If the channel which has already been set as a "Guarded Channel" is selected, that channel is rejected and cannot be set for the DUAL ON TIMER. (For details of the Guarded Channels, refer to page 13.)
- When "2" is pressed, any presettings previously made after "1" was pressed will be cancelled. To keep DUAL ON TIMER functioning, make sure to reset it by pressing "1" after pressing "2".

7. CHILD TIMER

The "CHILD TIMER" feature enables the TV to be turned off automatically at a preset time every day, and once it has been set, it continues to operate unless it is cancelled. Different from the 12HR SLEEP TIMER, the CHILD TIMER not only turns off the TV, but if the power is reapplied later, only a blue-blank screen appears instead of a normal screen. At this time, an ID number must be entered; when a correct ID number is entered, the blue-blank screen changes to a normal one. Also after an hour has passed, the function is cancelled automatically.

With "PAGE-3" (or "PAGE-1" or "PAGE-2") MENU displayed on the screen, press "7" of 10-digit keypad. The display will show:



Then, press "0". The display changes to:



1) SET

Press "1" to place the CHILD TIMER in standby. The OFF TIME which has been previously set will be displayed. "YES" appears on the screen to show that the CHILD TIMER is in operation.

2) CANCEL

Press "2" to cancel the CHILD TIMER. "NO" appears to show that the CHILD TIMER has been cancelled.

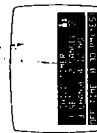
3) CHANGE

Press "3" to re-adjust the CHILD TIMER setting. Follow the on-screen displays to reset the OFF TIME, using the 10-digit keypad.



Set the OFF TIME. Select "AM" or "PM".

When the OFF TIME is set, the display will show:



4) SET ID NO.

Press "4" to set the ID number. The display will show:



Press any of 3 numbers you wish to be the ID number. When completed, "ENTERED" appears to show that the ID number you have just keyed in is set.



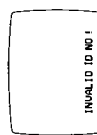
CHILD TIMER operation

- When the POWER button is pressed after the CHILD TIMER has already turned the power off, the following display appears.



- Key in the ID number using the 10-digit keypad. Then the blue-blank screen will change to a normal screen.

- If the keyed-in ID number is incorrect, the display shows:



And the blue-blank screen will remain.

Notes:

- If you wish to change the ID number, follow the steps of "4) SET ID NO."
- If the power is disconnected (such as in the case of power failure, etc.), and reapplied later, the ID number is reset to "000".
- If you forget the ID number which you have set, reset it.
- Since the ID number for the CHILD TIMER and CHANNEL GUARD is the same, changing one will also automatically change the other.

Then, press "0". The display changes to:



- Channel numbers displayed are Guarded Channels, if already previously set.

8. CHANNEL GUARD

The "CHANNEL GUARD" feature allows you to assign an "ID number" to specific channels of your choice, making them "Guarded Channels". This prevents these specific channels from being selected, unless the "ID number" is keyed in.

First select a channel you wish to set as a Guarded Channel. With "PAGE-3" (or "PAGE-1" or "PAGE-2") MENU displayed on the screen, press "8" of 10-digit keypad. The display will show:



1) SET

Press "1". The display changes to:



For example, if the current channel being received is "CHANNEL 25", and you wish to store this channel as Guarded Channel 1, then press "1". The display changes to show that CHANNEL 25 is now set as Guarded Channel 1.



2) CANCEL

Press "2" to cancel the Guarded Channel. The display will show:



With this display on the screen, press the number of the Guarded Channel you wish to cancel from the list. For example, if you wish to cancel CHANNEL 25 (in this case, Guarded Channel 1) from the list, press "1". Then the display changes to show that CHANNEL 25 (Guarded Channel 1) has been cancelled.

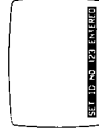


3) SET ID NO.

Press "3" to set the ID number. The display will show:



Press any 3 digits you wish to be the ID number. When completed, "ENTERED" appears to show that the ID number you have just keyed in is set.



Viewing Guarded Channels

1) Select the Guarded Channel. (If the Guarded Channel you wish to view is CHANNEL 25, press "2" and "5".) Then, the following display appears:



2) Key in the ID number using the 10-digit keypad. The channel appears.

3) If the keyed-in ID number is incorrect, the display shows:



And the Guarded Channel you have selected cannot be seen.

Notes:

- If you wish to change the ID number, follow the steps of "3) SET ID NO.".
- If the power is disconnected (such as in the case of power failure, etc.), and reapplied later, the ID number is reset to "000".
- When performing the CHANNEL SCAN function, or selecting channels using CHANNEL (+/-) buttons, the Guarded Channels are skipped.
- In the following cases, the Guarded Channel can be seen without keying in the ID number:
 - = When you press RETURN button from a channel which has been selected immediately after viewing a Guarded Channel.
 - = When you press ANT/CABLE buttons from a channel of a different broadcast mode (CHANNEL or CABLE) which has been selected immediately after viewing a Guarded Channel.
 - = When you press CHANNEL (+/-) buttons on the Remote Control or LEVEL/CHANNEL (+/-) buttons on the front panel, while in the MANUAL PROGRAM mode of the INITIAL SET-UP (on MENU PAGE-3), if the selected channel which has already been ADDED happens to also be a Guarded Channel.
 - = When you press "4" (CHANNEL UP) or "5" (CHANNEL DOWN) of the 10-digit keypad while in the MANUAL PROGRAM mode of the INITIAL SET-UP. If the Guarded Channel happens to also be the next higher or lower channel following the one to which you are presently tuned.
 - = While in the AUTO PROGRAM mode of the INITIAL SET-UP, if the AUTO PROGRAM is interrupted immediately when a Guarded Channel appears.
 - = When the channel which has already been set for the DUAL ON TIMER or HOME SITTER is set as a Guarded Channel.
 - If you forget the ID number which you have set, reset it.

9. INITIAL SET-UP

The INITIAL SET-UP feature allows you to perform basic settings for the TV status. This consists of Channel Memory (Auto/Manual), Set Clock, Set AV Status, Noise Mute, Message Style, Set Mute Level and Set Category Preview.

Note: When performing Channel Memory (MANUAL PROGRAM), select an appropriate broadcast mode (either "CHANNEL" or "CABLE") before you select the INITIAL SET-UP mode.

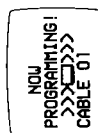
- With "PAGE-3" (or "PAGE-1" or "PAGE-2") MENU displayed on the screen, press "9" of 10-digit keypad. The "INITIAL SET-UP" consists of 3 pages. Press "9" of 10-digit keypad or the MENU button repeatedly to display the pages in the sequence below.
- Press numbers "1" through "8" on 10-digit keypad to select the corresponding function of the numbered items.



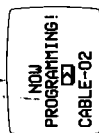
1) AUTO PROGRAM

This function allows memorizing the channels automatically to match the TV broadcasts and cable channels of your area. The memorized channels can be selected by CHANNEL (+/-) buttons on the Remote Control or LEVEL/CHANNEL (+/-) buttons on the front panel, or in the CHANNEL SCAN mode, while skipping channels where there are no broadcasts.

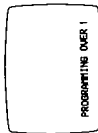
Press "1" of the 10-digit keypad. The following display will appear and the program set-up procedure begins automatically.



When tuned to a channel in which a TV program is broadcast, the following display appears and this channel is memorized.



When the AUTO PROGRAM procedure (scanning and memorizing) is completed, it will be indicated by the following display.



Notes:

- If the broadcast signals are weak, the channel may not be memorized. In this case, perform the MANUAL PROGRAM procedure.
- The AUTO PROGRAM procedure takes approximately 4 minutes. If you wish to stop this procedure before completion, press any button on the Remote Control.

2) MANUAL PROGRAM

Similar to the AUTO PROGRAM function, this is for memorizing channels, but it is performed manually. The resulting Manual Programming is also effective when performing up/down channel selection or CHANNEL SCAN. Press "2". The display will show:



The current tuned-in channel

Simply follow the on-screen instructions.

Note: First select the broadcast mode before entering this MANUAL MEMORY mode.

- 1) Press "1" (ADD) to add this channel in memory. A bar "-" will appear between the broadcast mode (CHANNEL or CABLE) and the channel number to show that the channel has been memorized.
- 2) Press "2" (ERASE) to erase this channel from memory. If you do not wish to preset it in memory or if no TV station is broadcasting on it. The bar between the broadcast mode and channel number will disappear.
- 3) Press "4" (CHANNEL UP) or "5" (CHANNEL DOWN) to select the next higher or lower channel.
- 4) Press "3" (END) when you have stored all required channels in memory.
- 5) When you wish to store channels of the other broadcast mode, select the mode first, then repeat steps 1) through 4).
 - In step 3) above, if selecting channels is difficult, press the CHANNEL (+/-) buttons on the Remote Control.
 - Be sure to perform these operations using the Remote Control.

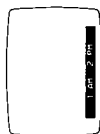
3) SET CLOCK

This TV has a built-in clock. Set the clock as follows.

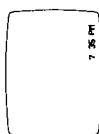
- 1) Press "3" of 10-digit keypad. The display will show:



- 2) Then, press the numbers on the 10-digit keypad to set the current time. For example, if the present time is 7:35 PM, press "0", "7", "3", and "5" (or press "7", "3" and "5"). Then, the display changes to:



- 3) Press "2" to select the "PM" setting. (Press "1" to select the "AM" setting.) Then, the display changes to the following to show the current time is set and the clock starts operating.



Notes:

- If an invalid time is selected (for example: "17:70"), it will be rejected and the built-in clock must be reset properly.
- If you wish to set the clock precisely, in step 3) above, press "2" (or "1") at the same instant of a time signal.
- The built-in clock may lose time depending on the manner in which the TV is used or the frequency of the power source. If the time difference becomes great, re-adjust the clock.
- If the power is disconnected (such as in the case of a power failure, etc.), and reconnected later, the clock will stop operating. (The clock status can be checked on the screen. Press the DISPLAY button. If the clock has stopped, the message "CLOCK STOPPED" is displayed instead of the current time. See "DISPLAY Button" on page 22 for details.) When disconnected only for a couple of minutes, the clock is reactivated; however, it will be later than the actual time by the amount of time of interruption.

4) SET AV STATUS

This TV set incorporates the AV STATUS memory that can store 2 variations for preset picture/sound adjustments, allowing you to change the picture/sound tone/speaker balance to your preference, depending on each source.

- 1) Press "4" of 10-digit keypad. The display will show:



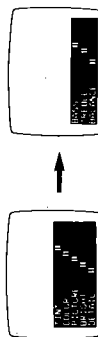
- 2) Make picture adjustments to your preference. Use the FUNCTION BACKFORWARD buttons to select the item, and use the FUNCTION (+/-) buttons to adjust each item. If you also wish to make sound adjustments, press "1" to advance the adjustment mode display. The following display will appear. (Press "1" again to return to the picture adjustment display.)



- 3) Make sound adjustments to your preference. Use the FUNCTION BACKFORWARD buttons to select the item, and use the FUNCTION (+/-) buttons to adjust each item. When finished, press "2". The following display will appear.



- 4) Press "1" to store the setting as the "AV STATUS A". (Press "2" to store it as the "AV STATUS B".) Then the picture and sound adjustment settings (items and their reference scales) appear for a few seconds each.



- 5) Repeat steps 1) through 4) for making another AV STATUS setting.

Note: When you wish to choose the preset AV STATUS, just press AV STATUS/RESET button. To choose either set of AV STATUS adjustments. For details, see "AV STATUS/RESET Button" on next page.

AV STATUS/RESET button

Use this button for choosing the preset AV STATUS or for resetting the picture/sound adjustment items. Press AV STATUS/RESET button on the Remote Control. The following display appears.



- Another pressing of the AV STATUS/RESET button resets all previously adjusted items to their center positions.

1. AV STATUS A

Press "1" of 10-digit keypad for selecting AV STATUS A. The picture and sound change as preset for "AV STATUS A". Then the picture and sound adjustment settings (items and their reference scales) appear for a few seconds each.

2. AV STATUS B

Press "2" for selecting AV STATUS B. The picture and sound change as preset for "AV STATUS B". Then the picture and sound adjustment settings (items and their reference scales) appear for a few seconds each.

3. RESET

Press "3" when you wish to reset all adjusted items (TINT, COLOR, PICTURE, BRIGHT, DETAIL, BASS, TREBLE and BALANCE) back to their center positions at the same time. The on-screen displays appear and change as follows:



Note: While in this mode, the setting of the AV STATUS cannot be cancelled.

5) NOISE MUTE

The NOISE MUTE feature allows replacing the "snowy" screen of vacant non-broadcast channels with a blue-blank screen; and, at the same time, muting the noisy sound. Press "5". The display will show:



At this time, either current setting ("ON" or "OFF") is indicated at the right of "PLEASE SELECT".

Press "1" to select the Noise Mute mode for a blue-blank screen with no sound. Press "2" to release the mode. Screen is normal (without blue-blank screen) and sound can be heard.

Note: The Noise Mute mode can be activated only when either no signal is being input or when a weak signal is being received.

- If you wish to view a TV program having a weak broadcast signal, release the Noise Mute mode to prevent it from being activated.
- If you use an antenna system, before adjusting it (extending, rotating, etc.), release the Noise Mute mode to prevent it from being activated when the signal condition changes.
- When playing back VCR recordings or the like, picture and sound muting conditions might continue to occur for a few seconds after engaging the Play mode. Release the Noise Mute mode when necessary.
- When the Noise Mute mode is engaged, it is also applied to the output signals, both from LINE OUT connectors and from AUDIO OUT (VARIABLE) connectors. Release the Noise Mute mode to prevent it from having effect when connecting external components to the TV.

6) MESSAGE STYLE

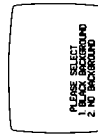
This function is for switching the black background of the on-screen display on and off (except for channel numbers and clock time). Press "6". The display will show:



Press "1" to select the on-screen display mode with a black background.



Press "2" to select the on-screen display mode without a black background.



7) SET MUTE LEVEL

This feature allows presetting the sound level of the mute function. Press "7" of 10-digit keypad ⑦. The display will show:



Press the VOLUME (+/-) buttons to preset a mute level. Then press "1" to complete the setting.

Note:

- If the preset mute level is greater than the current volume level, pressing the MUTE button makes the volume level "0".

8) SET CATEGORY PREVIEW

This function enables storing up to five frequently-viewed channels for five different categories (Network, Movies, Sports, News and Choice) under "Category Preview", allowing immediate direct access to the channel of your choice by using CATEGORY PREVIEW button ⑥.

- 1) While in the channel select mode (either "CHANNEL" or "CABLE" mode), determine the category and channel you wish to preset under "Category Preview".

2) Press "8" of 10-digit keypad ⑧. The display will show:



- 3) Press a number (1 - 5) of 10-digit keypad ③ for a category in which you wish to preset a channel. Then, the following display will appear.

(For example, press "1" to select "Network".)



- 4) Press a number (1 - 5) of 10-digit keypad ③ for a position in which you wish to preset a channel. Then, the following display will appear.

(For example, press "3" to select position 3.)



- 5) Enter a channel you wish to preset (either in the CHANNEL or in the CABLE mode).

(For example, press "0" and "8" to preset "CHANNEL 08".)



- 6) Press either FUNCTION FORWARD/BACK (▼/▲) button for selecting each of the call letters to be stored. Available characters include the alphanumeric characters (26 English-language letters and 10 numerals), plus various punctuation marks (period, comma, etc.). Then, move the cursor to the next letter position by pressing either FUNCTION (+/-) button on the Remote Control. When the selection of as many as 4 call letters is finished, press "1".

(For example, if you choose the letters "JVC", keep the FUNCTION FORWARD (▼) or BACK (▲) button pressed until the letter "J" appears. Then, press the FUNCTION (+/-) button to move the cursor one letter position to the right. Press the FUNCTION FORWARD or BACK button to select the letter "V", then move the cursor to the right again with FUNCTION (+/-). In the same way, select "C", then press "1" to confirm.) The "Category Preview" is displayed for a few seconds.



- 7) Press "1" to go to the next position within the category. Repeat steps 3) through 6). Press "2" to go to the next category.

Note: Channels the station call-letters of which were stored in the Child Timer or Channel Guard menu memory, cannot be stored in the Category Preview menu memory.

CATEGORY PREVIEW button

- Press CATEGORY PREVIEW button ⑥ anytime you wish to call up a category list of those channels which have been preset with the SET CATEGORY PREVIEW menu for convenient direct channel selection.

- 1) Press CATEGORY PREVIEW button ⑥ to call up the following display.



- 2) While the display is on the screen, press the corresponding number of 10-digit keypad ③ to select a category.

(For example, press "1" to select "NETWORK".)

The stored channels appear in sequence every few seconds. At the same time, the "station ID" (or channel number, if the station ID is not stored in memory) of the channel being displayed on the screen blinks.



- 3) While the list is on the screen, press the corresponding number of 10-digit keypad ③ for the channel of your choice.

(For example, press "3" to select "CHANNEL-08 JVC".)

- 4) "CHANNEL 08 JVC" is tuned to.



Note: As shown above, previously keyed in station call-letters appear with their channel numbers. If different sets of call letters are assigned the same channel number in different categories (or in the same category), the call letters keyed in the lower numbered category (or lower numbered position) will appear on-screen when that channel is selected.