

MODEL-1701

VIDEO MONITOR USER'S MANUAL

For Customer Use:

Enter below the Model No. and Serial No. which is located on the rear of the cabinet. Retain this information for future reference.

Model No. 1701

Serial No. _____

 **commodore**
COMPUTER

■ **CAUTION**

In case of technical problems, especially if your set produces only sound with no picture, or if the viewing area shrinks to half size, unplug the set and call your dealer or service technician.

For your safety, please refer to "SAFETY PRECAUTIONS" on pages 9 and 10 in this user's manual.

■ **WARNING**

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- reorient the receiving antenna
- relocate the computer and this equipment with respect to the receiver
- move the computer and this equipment away from the receiver
- plug the computer and this equipment into a different outlet so that computer and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

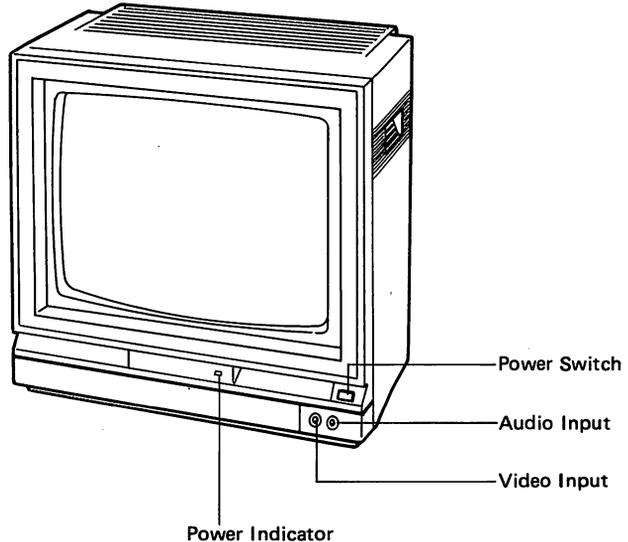
"How to Identify and Resolve Radio-TV Interference Problems"
This booklet is available from the US Government Printing Office, Washington, D.C., 20402, Stock No. 004-000-00345-4.

INSTRUCTIONS

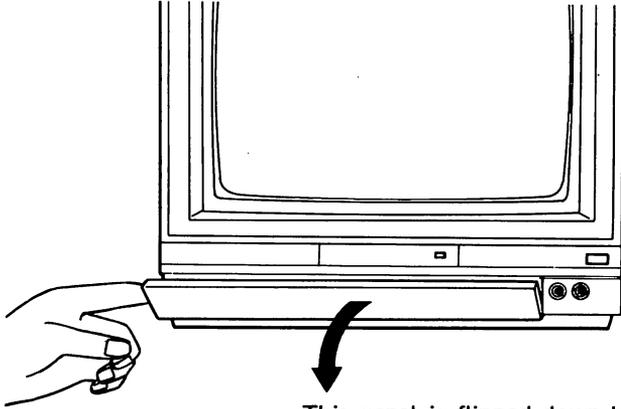
- Before attempting to operate this product, be sure that you have carefully read this manual.
- Do not open or attempt to service this product.
- The 1701 video monitor comes in NTSC and PAL versions and different versions for supply voltages of 120 V, 220 V and 240 V.
Be sure to check that your set corresponds with your local standards before use.
The specifications are indicated clearly on the box.

NAMES OF SECTIONS

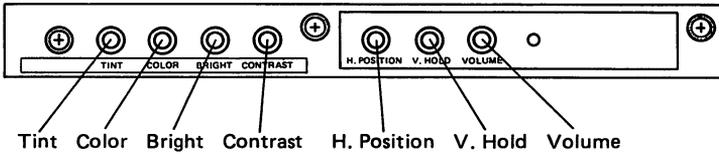
[FRONT SCREEN]



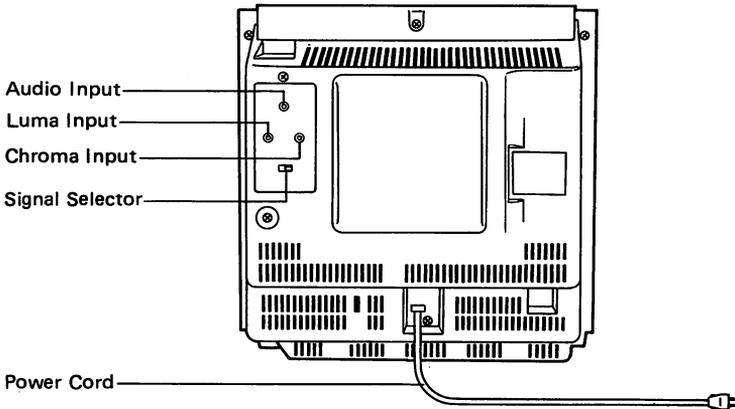
[FRONT CONTROL SECTION]



This panel is flipped down by pulling it towards you as shown in the diagram.



[REAR PANEL]

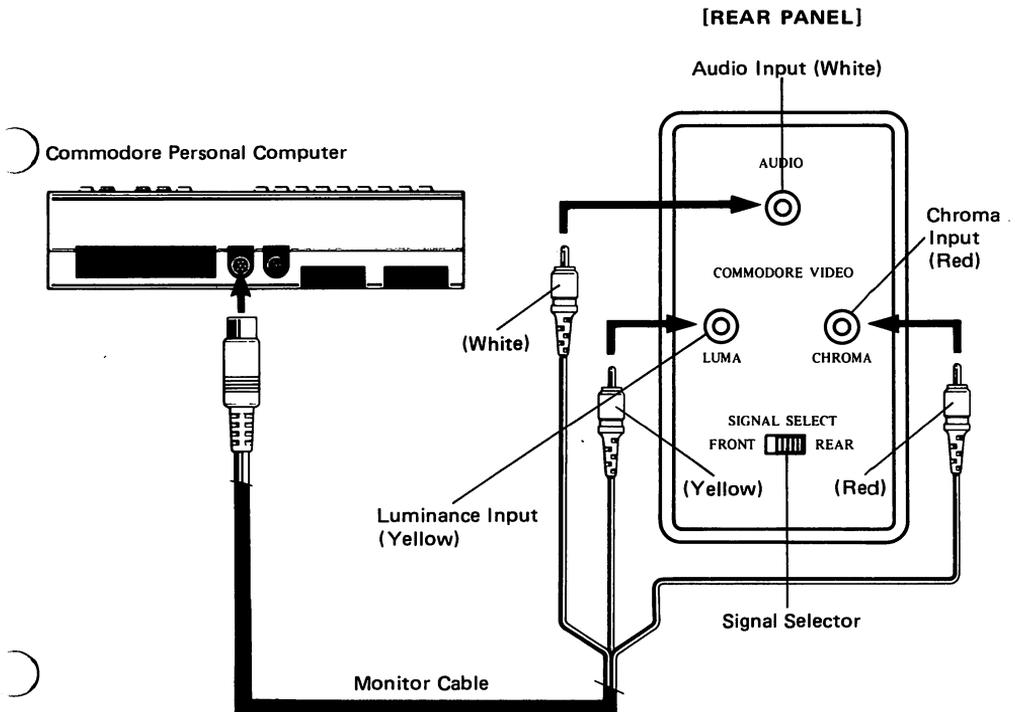


CONNECTION

In order to connect this video monitor to a Commodore personal computer, use the connection cable (monitor cable). When connecting them, turn off power of the personal computer and the video monitor first.

(1) How to use the Commodore video input (on the rear side)

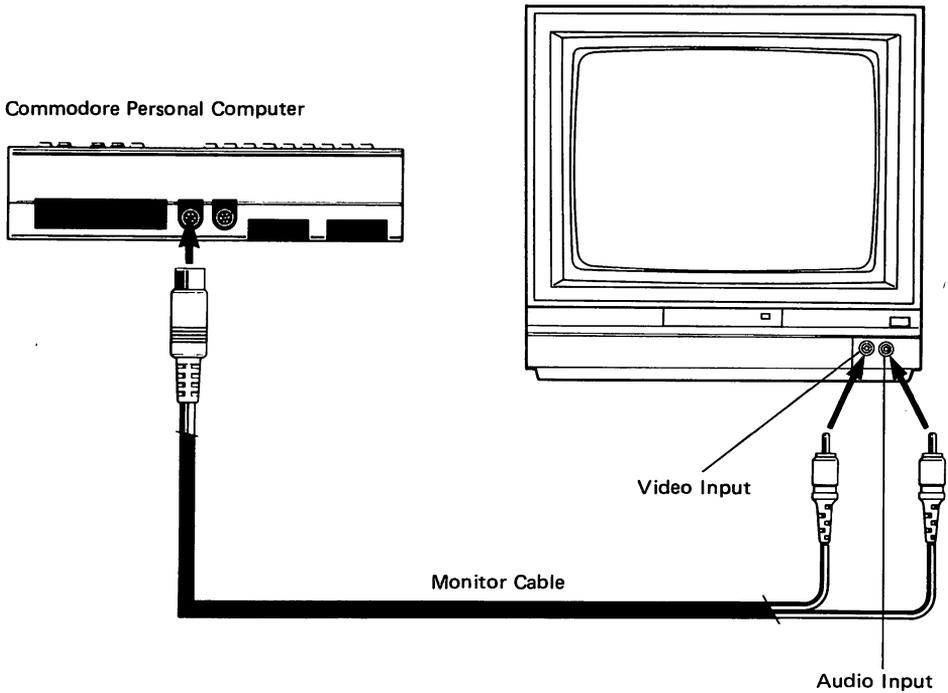
If your personal computer has the Commodore video output terminal, connect it to the exclusive Commodore video input terminal. The use of this terminal allows the display of a picture with better resolution than the ordinary connection described in (2) below. Connect the DIN connector of the monitor cable to the Commodore video output terminal of the personal computer and connect RCA pin plugs of the monitor cable to the rear terminals of the monitor as follows: audio output plug (white) to AUDIO IN (white), luminance output plug (yellow) to LUMA IN (yellow) and chroma output plug (red) to CHROMA IN (red), and then place the SIGNAL SELECTOR SWITCH to its "REAR" position.



(2) How to use video input and audio input jacks (on the front panel)

Connect the ordinary composite output signal terminals of the personal computer or the output of the video camera, VCR or TV tuner, etc. to the VIDEO IN and AUDIO IN jacks on the front panel, and set the SIGNAL SELECTOR SWITCH on the rear panel to its "FRONT" position.

The 1701 can now be used as an ordinary video monitor.



TURNING POWER ON

Turn on the power of the video monitor first.

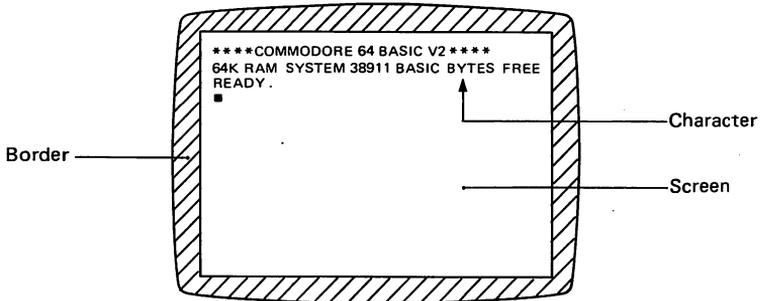
POWER SWITCH

[PUSH] ( ON) INDICATOR lamp will light indicating that the power is on.

[PUSH AGAIN] ( OFF) The power will be cut off.

Next, turn on the power of the Commodore personal computer. At this point, if the screen of the monitor is as shown below, it means that both the computer and the monitor are operating correctly.

In the case of a Commodore 64 personal computer



Different computers have different displays on the monitor screen. Refer to the user's manual of the computer.

MANUAL CONTROLS

- **Tint Control**



Turn to the left to add more red color and to the right to add more green color. (Try to adjust by focusing the human complexion to be viewed as natural as possible. The normal setting for this knob is at the center, click-stop position.)

[The PAL version of the model 1701 does not have this knob.]

- **Color Control**



Turn to the left for pale colors and to the right for more vivid colors. (The normal setting for this knob is at the center, click-stop position.)

- **Brightness Control**



Turn to the right to brighten the picture. (The normal setting for this knob is at the center, click-stop position.)

- **Contrast Control**



Turn to the right to increase contrast. (The normal setting for this knob is at the center, click-stop position.)

- **H. Position Control**



Turn to the right to move the center of the picture to the right and to the left to move it to left.

- **V. Hold Control**



Turn this knob to stop vertical rolling of the picture.

- **Volume Control**



Turn this knob to the right to increase sound volume, and to the left to decrease volume.

SPECIFICATIONS

Type	: Color video monitor
Color system	: NTSC
Power requirements	: AC 120 V, 60 Hz
Power consumption	: Max. 0.97 A
Screen size	: 13" diagonally measured (33 cm) 90° deflection angle. Vertical stripe. 0.64 pitch
Audio output	: 1.2 W
Speaker	: 10 cm round x 1
External input terminals	
Video input	
Input type	: Composite video signal (CVBS)
Input level	: 1.0 Vp-p (sync negative 0.3 V)
Input impedance	: 75 Ω
Connector type	: RCA pin jack
Commodore video input	
1) Luminance signal input	
Input type	: Composite video signal (VS)
Input level	: 1.0 Vp-p (sync negative 0.3 V)
Input impedance	: 75 Ω
Connector type	: RCA pin jack
2) Chrominance signal input	
Input type	: NTSC chroma signal
Input level	: 1.0 Vp-p
Input impedance	: 75 Ω
Connector type	: RCA pin jack
Audio input	
Input level	: 1.0 Vp-p
Input impedance	: 10 k Ω
Connector type	: RCA pin jack
Dimensions	: 373(W) x 363(H) x 409(D) mm
Weight	: Unit weight; 14.5 kg (31.9 lbs) Gross weight; 16.2 kg (35.7 lbs)

Design and specifications subject to change without notice.

SAFETY PRECAUTIONS

Electrical energy can perform many useful functions. This unit has been engineered and manufactured to assure your personal safety. But **improper use can result in potential electrical shock or fire hazards**. In order not to defeat the safeguards incorporated in the monitor, observe the following basic rules for its installation, use and servicing. And also follow all warnings and instructions marked on your video monitor.

INSTALLATION

1. Your set is equipped with a polarized AC line plug (one blade of the plug is wider than the other).

This safety feature allows the plug to fit into the power outlet only one way.

Should you be unable to insert the plug fully into the outlet, try reversing the plug.

Should it still fail to fit, contact your electrician.

2. Operate the set only from a power source as indicated on the set or refer to the user's manual for this information. If you are not sure of the type of power supply to your home, consult your dealer or local power company.

3. Overloaded AC outlets and extension cords are dangerous, and so are frayed power cords and broken plugs. They may result in a shock or fire hazard. Call your service technician for replacement.

4. Do not allow anything to rest on or roll over the power cord, and do not place the set where power cord is subject to traffic or abuse. This may result in a shock or fire hazard.

5. Do not use this set near water -- for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.

6. Sets are provided with ventilation openings in the cabinet to allow heat generated during operation to be released. If these openings are blocked, heat built-up within the set can cause failures which may result in a fire hazard. Therefore:

- **Never block the bottom ventilation slots by placing it on a bed, sofa, rug, etc.;**
- **Never place a set in a "built-in" enclosure unless proper ventilation is provided;**
- **Never cover the openings with cloth or other material;**
- **Never place the set near or over a radiator or heat register.**

7. To avoid personal injury:

- Do not place a set on a sloping shelf unless properly secured;
- Use only a cart or stand recommended by the manufacturer;
- Do not try to roll a cart with small casters across thresholds or deep pile carpets.
- Wall and shelf mounted installations should use factory approved mounting instructions.

USE

8. Always turn the set off if it is necessary to leave the room for more than a short period of time. Never leave a set on when leaving the house. A possible malfunction may result in a fire hazard.
9. Caution children about dropping or pushing objects into the set's cabinet openings. Some internal parts carry hazardous voltages and contact can result in a fire or electrical shock.
10. Unplug the set from the wall outlet before cleaning the face of the picture tube. Use a slightly damp (not wet) cloth. Do not use an aerosol directly on the picture tube since it may overspray and cause electrical shock.

11. Never add accessories to a set that has not been designed for this purpose. Such additions may result in a shock hazard.
12. For added protection of the set during a lightning storm or when the set is to be left unattended for an extended period of time, unplug it from the wall outlet. This will prevent possible shock and fire hazards due to lightning storms or power line surges.
13. Do not bring magnetic devices such as magnets or motors near the picture tube. These things have a bad effect on the color purity of the picture.
14. Sometimes you may feel static electricity when you touch the surface of the picture tube.
However, this is normal for any TV set and is harmless to the human body.

SERVICE

15. Unplug this set from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - A. When the power cord or plug is damaged or frayed.
 - B. If liquid has been spilled into the set.
 - C. If the set has been exposed to rain or water.
 - D. If the set does not operate normally by following the operating instructions. Adjust only those controls that are covered in the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the set to normal operation.
 - E. If the set has been dropped or the cabinet has been damaged.
 - F. When the set exhibits a distinct change in performance -- this indicates a need for servicing.
 - G. If snapping or popping from the set is continuous or frequent while the set is operating. It is normal for some sets to make occasional snapping or popping sounds, particularly when being turned on or off.
16. Do not attempt to service this set yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
17. When replacement parts are required, have the service technician verify in writing that the replacements he uses have the same safety characteristics as the original parts. Use of manufacturer's specified replacements can prevent fire, shock, or other hazards.
18. Upon completion of any service or repairs to the set, please ask the service technician to perform the safety check described in the manufacturers' service literature.
19. When a video monitor reaches the end of its useful life, improper disposal could result in a picture tube implosion. Ask a qualified service technician to dispose of the set.

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