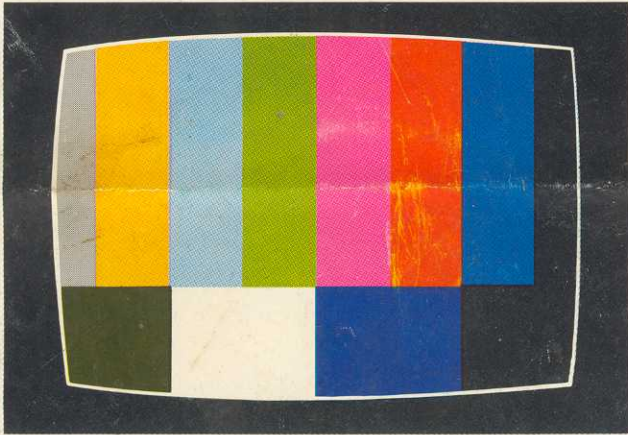


COLOR BAR AND TV TEST PATTERN CARTRIDGE FOR ATARI 2600 USER'S GUIDE



VIDEO SOFT

P.O. Box 4242 Santa Clara CA 95054 (408) 980-9211

The VIDEO SOFT Color Bar cartridge is designed to operate with the Atari 2600 VCS console and all machines with Atari adapters.

The test pattern cartridge contains 15 displays that can be used to check or align most adjustments for a black and white or color television. One pattern is also included to check the alignment of the color generation circuitry on the Atari VCS (tm) console circuit board. A 1kHz and 3kHz tone can be selected with the DIFFICULTY SWITCHES, and the patterns can be selected by scrolling forward or backwards through the list via the GAME SELECT or GAME RESET console switches.

The VIDEO SOFT Color Bar Generator cartridge is to be used for verification of proper operation of your TV set, and for adjusting color convergence on big screen projection sets.

In most cases the corrections can be made by minor adjustments on visible controls with easy accessibility. Any adjustment of the secondary controls or any in depth interior adjustments must be referred to qualified service personnel.

Title page and VCS color adjustment pattern	Circle pattern
Green screen	Center cross
Red screen	Horizontal lines
Blue screen	Vertical lines
White screen	Dot pattern
Window pattern	Cross hatch pattern
Wide vertical bars	Grey scale pattern
	Color bar pattern

TITLE PAGE — contains the copyright notice "copyright (c) 1983 Video Soft", indicating that this program is protected under Title 17 United States Code. This screen also contains the color adjustment pattern for the Atari VCS (tm) color generation

circuits. The VCS generates audio and video signals using digital electronics. The color phase angles are generated by delaying the color signal until the desired phase angle is selected. An adjustment potentiometer is placed on the VCS console circuit board to adjust the 360 degree delay so that it is the same as 0 degrees. Although we do not recommend that you void any warranty on your game console, the potentiometer (the only one) can be adjusted so that the top half of the colored box is as close to the same color as the bottom half. The color generation circuits can then correctly produce colors from 0 to 360 degrees.

The basic function of this pattern is to check if the Atari 2600 VCS phase angles are being properly generated. If the Atari unit is not working right the test patterns will not be properly displayed on your TV screen. If this occurs, we recommend that you consult qualified Atari service personnel.

COLOR BAR PATTERN — gives a close approximation to the NTSC standard color bar. The top colors are grey, yellow, cyan, green, magenta, red, blue, and black. The bottom colors are a very dark green, white, blue, and black.

GREY SCALE PATTERN — produces eight shades across the screen going from white to black. This pattern can be used to check that the television can reproduce uniform changes in the luminance amplitude. The brightness and contrast can be adjusted so that all bars are showing across the screen. NOTE: it is not possible to turn off the color burst signal on the game console, even with the COLOR/BLACK-WHITE switch. Some color may creep into pictures which should have only a black and white display.

CROSS HATCH PATTERN, DOT PATTERN, VERTICAL LINES, HORIZONTAL LINES, and CENTER CROSS — are very useful for checking vertical and horizontal linearity on any television, and are also useful for checking and aligning convergence on a color television.

CIRCLE PATTERN — is used to adjust the vertical size and linearity. If the vertical size and/or linearity are out of adjustment, the circle could appear as an egg instead of being round.

WIDE VERTICAL BARS — can be used to test for smearing or fading of the video signal. The bars should appear as completely white and black bars.

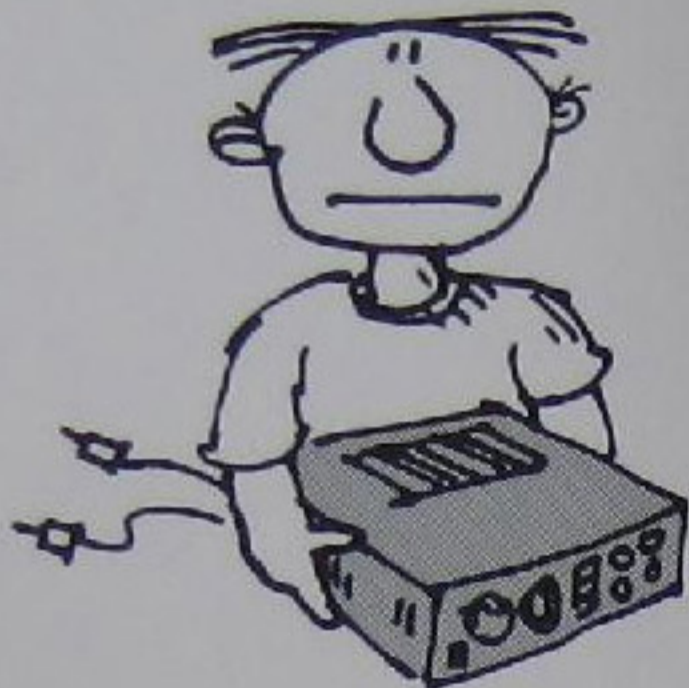
WINDOW PATTERN — should appear as a white window in a completely black background. If the black background changes between black and grey at the top or bottom of the window, the DC coupling or DC restoration between the video amplifier and the picture tube is not functioning correctly.

WHITE SCREEN — is used to adjust the color circuits to produce a white screen on a color television.

RED SCREEN — is most useful in adjusting color purity. If the screen is not completely red, (such as other colors around the edges), the television should be degaussed. If degaussing does not cure the problem, the color purity magnets will probably need adjustment. *This adjustment must be done by a qualified TV repair person.*

BLUE SCREEN, GREEN SCREEN — displays blue or green screens.

COLOR BAR GENERATORS



THEIRS
FEW FUNCTIONS
\$1200-\$2000



OURS
15 FUNCTIONS
UNDER \$30

The VIDEO SOFT test pattern cartridge contains 15 displays that can be used to check or align most adjustments for a black and white or color television — including a circle pattern. It fits any Atari 2600 vcs and all machines with Atari adapters. Most professional pattern generators cost about \$1200-\$2000. The VIDEO SOFT Color Bar Generator sells for \$29.95 plus \$1.70 postage and handling. **About 2% the cost.**

THE TEST PATTERNS INCLUDED ARE:

- | | | |
|-----------------|-----------------------|--------------------|
| 1. Title Adjust | 6. Window | 11. Vertical lines |
| 2. Green screen | 7. Wide vertical bars | 12. Dots |
| 3. Red screen | 8. Circle | 13. Cross hatch |
| 4. Blue screen | 9. Cross hairs | 14. Grey scale |
| 5. White screen | 10. Horizontal lines | 15. Color bars |

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Please send ___ Color Bar Generators at \$29.95 plus \$1.70 each postage and handling (allow 4-6 weeks for delivery). My check or money order is enclosed.
Charge to my VISA Master Card (California Residents add 6.5% sales tax)

Account No. _____ Expiration Date _____
Name _____
Address _____
City _____ State _____ Zip _____
Signature _____