

Learning To Use The VC93 All Format VCR Analyzer

The VC93 All Format VCR Analyzer provides the necessary signals to troubleshoot the luminance, chroma, and audio stages of a VCR. It allows you to inject known good signals to help isolate problems to the defective stage. The VC93 also provides special Servo Analyzer Tests to help isolate servo problems.

This Tech Tip will familiarize you with the VC93 signals and servo tests, and where to use them when servicing VCRs. Information on troubleshooting specific VCR circuits is covered in other Tech Tips.

This Tech Tip is organized according to the major features of the VC93. You should have the Universal VCR Block Diagrams provided

with your VC93 manual for reference as you read through this Tech Tip.

VCR FORMAT

There are many different VCR formats. The main difference between each is the makeup of the signals that are recorded onto the tape. These differences include luminance frequencies, the color-under signal, and the audio frequencies used for Hi-Fi Stereo. Table 1 summarizes the key characteristics of each VCR format supported by the VC93. The VC93 provides signals to troubleshoot all color-under format VCRs. Tech Tip 183, "Comparison Of VCR Formats," provides a more detailed discussion of each format.

The VC93's VCR FORMAT switch sets the signals to match the VCR format you are servicing. It determines the makeup of the luminance, chroma, and audio signals coming from the PLAYBACK OUTPUT jack, and selects the frequency of the "Head Switch" DRIVE SIGNAL Set VCR FORMAT switch to match the type of VCR you are servicing.

PLAYBACK SIGNAL

The VC93's PLAYBACK SIGNAL switch and PLAYBACK OUTPUT jack provide the proper signals for injecting into the stages before the FM luminance detector, chroma frequency converter, and FM audio detector. The test points that require the use of the Playback Signals are summarized in Table 2.

Note: The VCR FORMAT switch must be set to the proper format for the playback signals to be

correct at the PLAYBACK OUTPUT jack.

The PLAYBACK SIGNAL switch selects the type of signal available at the PLAYBACK OUTPUT jack. The peak-to-peak level of each signal is adjustable with the PLAYBACK RANGE and PLAYBACK LEVEL controls. Use the HEAD SUBSTITUTION TEST LEAD to inject any of the Playback Signals into the appropriate test point. Following is a summary of each Playback Signal.

Luminance And Chrominance Signals

LUM (FM Modulated): This signal duplicates the FM modulated luminance portion of the signal found in the luminance stages of a VCR or camcorder. It does not include the color information. Injecting the FM LUM signal into working VCR stages produces only the black and white portion of the video pattern. Use this signal to check the video heads, preamps, and other FM luminance stages.

LUM & CHROMA: This signal includes both the FM luminance and down-converted chroma. Injecting the LUM CHROMA signal into a working VCR produces the COLOR BARS pattern, or the pattern selected by the "External" position of the MODULATION control if the VC93 is phase locked to the VCR. This signal can also be injected into the FM luminance stages, but its main application is to phase lock the VCR to the VC93 while injecting into the chroma circuits.

How To Phase Lock The VC93 To A VCR For Color Troubleshooting

The chroma signal in color-under VCR formats is phase shifted each video field to minimize color crosstalk. The phase shifting is controlled by the SW20 signal. In order for the VCR to reproduce color when a signal from the VC93 is injected into it, the color phase generated by the VC93 must match the



FORMAT	A (MHz)	B (MHz)	C (MHz)	D (kHz)	E (MHz)	F (Hz)
VHS	3.4	4.0	1	609	1.3, 1.7	N/A
SUPER VHS	5.4	2	1.5	629	1.2, 1.7	N/A
VHS-C	3.4	4.0	1	609	1.3, 1.7	N/A
SUPER VHS-C	5.4	2	1.5	629	1.3, 1.7	N/A
BETA	3.5	4.0	1.2	600	1.38, 1.53, 1.68, 1.83	N/A
SUPER BETA	4.4	5.0	1.2	600	1.38, 1.53, 1.68, 1.83	N/A
U-MATIC	3.8	5.4	1.5	590	N/A	N/A
U-MATIC SP	5.0	6.0	1.6	580	N/A	N/A
SMM	4.2	5.4	1.2	743	1.5	100, 244, 518, 901
Hi-8	5.7	7.7	2	743	1.5, 1.7	100, 244, 518, 901

Table 1 - Key VCR Format Characteristics

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Construction Electrician 1 & C Barney G. Baker,1985 **Equipment Improvement Report and Maintenance Digest** ,1984 Marsh's New Manual of Reformed Phonetic Short-hand, Being a Complete Progressive Guide to the Best System of Phonography and Verbaton Reporting Andrew Jackson Marsh,1892 **Manual of First Aid Professional English** Irena Baumruková,2016-09-23 The textbook and exercise book is designed for students and medical doctors who will need to speak English in their everyday practice or who wish to read professional journals and books for their work It is suitable for intermediate level and good for groups as well as for self study English teachers can follow the book from the beginning to end at high schools and in specialized courses Individuals medical students paramedics nurses can choose different parts according to their needs and interests and can easily use the book as a basis for long term professional preparation Popular Electronics ,1982 Admiral Color TV Service Manual Homer L. Davidson,Stan Prentiss,1970 *Television Servicing with Basic Electronics-- Student Manual* Joseph G. Sloop,1985 **Radio-electronics** ,1987 *AC Power Systems Handbook* Jerry C. Whitaker,2019-07-17 Proper operation of sensitive equipment requires attention to transient disturbances grounding practices and standby power needs This second edition of the successful AC Power Systems Handbook focuses on engineering technology essential to the design maintenance and operation of alternating current power supplies What s New in the Second Edition Expanded discussion on power system components New chapter on grounding practices Appendix covering engineering data and tables Updated material in all chapters Serving engineering personnel involved in the specification installation and maintenance of electronic equipment for industry this revision comprehensively examines the design and maintenance of ac power systems for critical use applications AC Power Systems Handbook also reflects the increased movement toward microelectronic equipment and microprocessor based systems as well as the increased priority among electronics engineers on the protection of such systems **Handbook of Electronic Test Equipment** John D. Lenk,1971

Sencore Manual Book Review: Unveiling the Magic of Language

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