

Model 09494

# BEARCLAW CUT-UP EDITING SYSTEM USER INSTRUCTIONS



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## OVERVIEW:

The 09494 editing system provides simple SVHS editing for the sports and general A/V professional. It consists of a handheld signal source (Bearclaw remote) and a signal detecting VCR controller (Cutup Editor) that provides all the functions for producing edited SVHS and VHS tapes. The Bearclaw remote provides audio signals to a camcorder, docking deck camera, VCR or directly to the Cutup Editor to mark video segments (plays) with. There are 5 audio signals ("tones") from the remote. Four of the five are used to separate categories during recording. The fifth "tone" is for a "skip over" or don't record function (i.e. to mark a halftime show not wanted on any report tape). The audio signal is detected by the Cutup Editor and switches a corresponding VCR to record while its "tone" is present. Each tone can represent a category of your choice (i.e. Offense, Defense, Kickoff, or Punt). The system does not require computers or software, and can be tailored to your specific needs by choosing what a tone represents. The Cutup Editor includes a S-video and composite video distribution amplifier with automatic detection and switching of video between the composite and S-video input and four outputs of both S-video and Composite video.

## SPECIFICATIONS:

### Cutup Editor

#### *Inputs: Video*

Composite video: 1 VP-P, 75 ohms terminated BNC

S-video: Y 1 VP-P, C .386 VP-P, 75 ohms terminated 4-pin miniDIN

Audio: Tone input 1 VP-P, 10 kilohms input impedance, unbalanced

#### *Outputs: Video*

4—Composite video: 1 VP-P, 75 ohm terminated BNC

4—S-video: Y 1 VP-P, C .386 VP-P 75 ohm terminated 4-pin miniDIN

#### *Control: VCR*

4—Serial port for Panasonic 5-pin remote VCR's

#### *Supported Recording VCR's:*

Lafayette—09950, 09948, 09945, 09958, 09970, 00885

Panasonic—AG-1950, AG-1960, AG-1970, AG-7400, AG-2400,  
AG-460

*Power required:* 120 V AC 50/60 Hz 5 Watts

*Dimensions:* 17.2" x 12.5" x 3.7"

#### *Accessories included:*

- 1—AC cord, 5 ft.
- 4—5-pin edit cables, 4 ft.
- 1—RCA/BNC adapter
- 2—Rack mount adapter bracket with screws

**Bearclaw Remote**

*Input:* Remote (for future use), 6-pin miniDIN

*Outputs:* Audio Out .5 VP-P, RCA phono jack

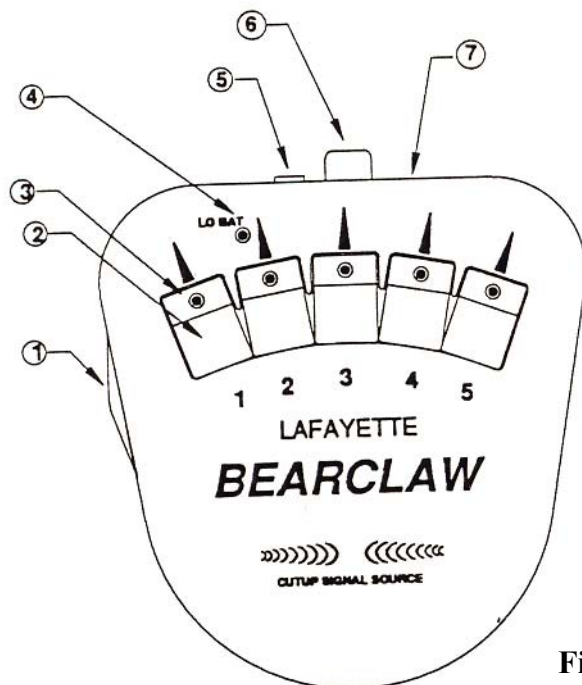
Microphone Out .75m VP-P, 3.5MM Stereo jack

*Power:* 3—AA alkaline batteries, life approximately 200 hours

*Dimensions:* 3.5" x 4" x 1.3"

*Accessories included:*

- 1—3.5MM stereo plug/plug cable, 5 ft.
- 1—RCA/RCA cable, 12 ft.
- 3—AA alkaline batteries

**BEARCLAW OVERVIEW:**

1. On/Off switch
2. Tone 1 pushbutton
3. Tone 1 indicator
4. Low battery indicator
5. Microphone out connector (3.5MM)
6. Audio out connector (RCA Phono)
7. Remote switch connector

**Figure 1: 09494BC: Bearclaw controls, indicators & connectors**

## ***BEARCLAW OPERATION:***

The Bearclaw remote is easy to connect and use. It connects to either audio inputs (found on most VCR's) or microphone inputs using 3.5MM mono or stereo inputs (found on most camcorders). It produces audio signals that you record on the videotape's audio track. The audio signal or "tone" is used by the Cutup Editor to switch recording on and off automatically. There are five push-button switches with indicators on the top of the Bearclaw remote (see Figure 1). While it is operating, the light in a switch blinks when its button is pressed, indicating the selected tone. Each button has a unique "tone" that is output to both the RCA phono jack (Figure 1, #6) as an audio signal and the 3.5 MM jack (Figure 1, #5) as a microphone level signal. Connect one of these signals to the VCR or camcorder using the supplied RCA-RCA plug cable (3-382-008) or the 3.5MM plug-plug cable (3-382-015). When using the RCA jack, plug the RCA cable into the VCR's audio input jack.

On stereo VCR's either channel or both may be used to record the "tones". Tones can be recorded on either Hi-Fi audio tracks or normal tracks. The tone signal must be recorded on a channel by itself, without mixed audio or excessive noise. The tones are audio signals that can be heard during playback. A test recording can be played back to verify that the tone is being recorded by listening for it on the audio channel that it was recorded on. Make sure no other audio except clear tones are presented on the channel you are using for the tone signal. Tapes that were not recorded with the tone signal can be edited with the tone system by using the audio dub function explained in detail later. Record the video you wish to edit while categorizing the excerpts by selecting tones that you record on the audio tracks with the Bearclaw pushbuttons.

Camcorders usually connect to the Bearclaw using the 3.5MM microphone out jack (Figure 1, #5). Plug one end of the 3.5MM cable (3-382-015) into this connector and the other end of the cable into the external microphone jack of the camcorder. The external microphone jack is usually located near the camcorder microphone. Most camcorders (including 09971 and Panasonic's AG-455) automatically switch to the external microphone when one is plugged in. Some may require a selection switch for audio input to be changed to select the external microphone. See your camcorder's manual or call for assistance. Record video while selecting tones as described above.

When using audio dub to place tones on an already recorded tape, the audio signal goes to the normal audio track on Hi-Fi VCR's such as the 09948, 09950, and 09958 or Panasonic's AG-1960 or AG-1970. These VCR's select the Hi-Fi tracks first if they have any signal on them. For these VCR's you will have to manually select the normal track by using the Infrared remote audio output button or the audio output button on the door of the VCR (09958 and ag-1970 only). Read the Audio Dub section in your VCR's operation manual for more details on audio dubbing.

To audio dub with most VCR's including all models previously referred to, place the prerecorded tape in the VCR after making sure the record tab is intact. Place a small piece of tape over the hole if the tab has been removed. Connect the Bearclaw as described above for recording. Place the VCR in play then pause so it produces a still picture. Press the audio dub button while in play/still and its indicator should light. Press the pause button to begin recording. The VCR display will show the Play arrow and the audio dub indicator will remain lit. Select tones during dubbing while watching the video.

The LO BAT indicator (Figure 1, #4) will light when the batteries need replacing. To replace batteries, remove bottom cover by removing three Phillips head screws holding it in place. Replace all the batteries (3—AA's) with new alkaline type and replace the cover and screws. The batteries should last approximately 200 hours of continuous use when fresh. The Bearclaw will operate for about 20 hours after the LO BAT indicator lights. When the switch lights are not blinking the batteries are too low to produce tone signal.

## CUT-UP EDITOR OVERVIEW:



Figure 2: 09494CE Cut-Up Editor Front Panel

The Cutup Editor provides the functions to use signals from the Bearclaw signal source to produce edited tapes automatically. The Cutup Editor system was designed to be used in a variety of ways. The Cutup Editor controls up to four VCR's that are switched into record when their "tone" is present. The Cutup Editor works with tapes that were recorded with signals from the Bearclaw, with tapes that have been audio dubbed after recording with the Bearclaw, or with "live" video by connecting the Bearclaw directly to the TONE IN connector. The Cutup Editor controls one to four VCR's equipped with Panasonic's 5-pin edit connector (see specifications section on page 7 for compatible VCR's list).

The Cutup Editor can also be used to make duplicates on VCR's not used for "tone" editing. By selecting "duplication mode" any unused tone's VCR can make a duplicate tape while doing the tone edits. By selecting duplication mode for all the VCR's, four copies can be made at once.

## CUT-UP EDITOR OPERATION:

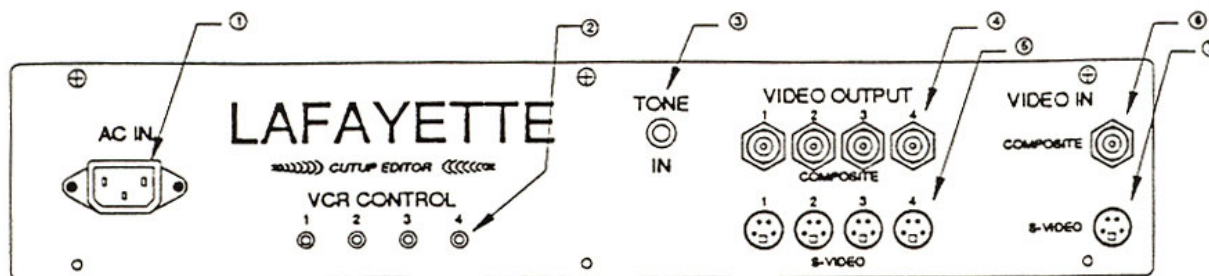


Figure 3: 09494CE Cut-Up Editor Back Panel

Connect each VCR used for recording to the editor as shown in Figure 4. Turn the power on and place recordable tapes (record tab intact or taped over) in each of these VCR's. Turn the power on to Cutup Editor with the power switch on it's front panel (Figure 2, #5). The power indicator should light (Figure 2, #6) and the VCR's should enter record-still as indicated by two vertical bars and the red REC symbol on the display. The Cutup editor will indicate the mode of operation for each VCR with the indicators (Figure 2, #3) in the corresponding Tone Recording switch (Figure 2, #4) on the front panel.

- When VCR's have been selected to edit from the tone of Bearclaw, their light will blink
- VCR's that have been selected for duplication will have a steady light.
- Duplication VCR's will begin recording as soon as video is present and remain in the record mode regardless of the presence or absence of the Tone Input signal. Recording continues until the end of the tape is reached or the VCR is placed in any mode other than record, record-still or stop.
- VCR's that are not on or connected or cannot record will be indicated by their switch not being lit. When the light is off for a VCR, the Cutup Editor will not attempt to control it. To reactivate a VCR with no light, correct the problem preventing the VCR from recording (i.e. no tape in VCR, record tab in tape missing, no power to VCR, edit cable not connected properly, etc.) and press its switch on the Cutup Editor. The light will blink or remain steady depending on the last setting for that VCR (tone mode or duplication mode). If the light goes out right away then a problem still exists with recording on that VCR.
- VCR's in Tone mode will record only when their tone is present at the TONE IN connector on the back panel (Figure 3, #3).

The mode for each VCR is selected by pressing the corresponding Tone recording switch on the front panel. Each press and release of the switch toggles the mode between duplication mode and tone recording mode. The light in the switch indicates the selected mode by remaining steady (duplication mode) or blinking (tone mode). The switches are ignored by the electronics during times it is communicating the VCR's or determining the tone. Make sure the mode you want is indicated by the lights. Try another switch press if it didn't change. The Cutup Editor saves the mode settings after each change and initializes the modes to the last setting when you first turn the Cutup Editor on.

The video input is selected automatically when you first turn the power on.

- When video is detected on the S-video input, it will be selected and the S-video indicator on the front panel (Figure 2, #1) will light. Video will be available on both the composite video outputs and the S-video outputs when a S-video is used.
- If video is detected on the Composite input and no S-video is present, the composite video input is selected and the Composite Video indicator on the front panel (Figure 2, #2) will light. No video will be available on the S-video Output connectors while composite video is used.

Once an incoming video signal has been detected and indicated, that video input remains selected until the Cutup Editor is turned off. If the video signal disappears or is disconnected, the Cutup Editor will blink the selected video indicator. VCR's in duplication mod will remain in either record-still or stop until a video signal is detected.

For tone editing from a tone marked tape, connect the video output of the playback VCR to either the S-video VIDEO IN or the Composite VIDEO IN. Use S-video whenever possible for best results. If you are using the Composite VIDEO IN use only the Composite VIDEO OUTPUT to connect to recording VCR's, since no video will be present on the S-video VIDEO OUTPUT connectors. See Figure 4 for example wiring for tone editing. Connect the audio out channel that has the tone signal on it from the playback VCR or camcorder to the TONE IN connector. Make sure the Cutup Editor power is on, the recording VCR's you are using indicate the proper mode (blinking for tone, steady for duplication) on the front panel indicators. Begin playback and make sure the video input you are using is indicated on the front panel. Check that VCR's are entering record and returning to pause as dictated by the tone signal.

Duplication mode can be used with or without the tone signal present. Connect the playback video as discussed for tone editing. If no tone editing is used during duplication, the audio doesn't need to be connected (i.e. all VCR's are used for duplication).

The Cutup Editor can be rack mounted by attaching the rack mount adapter brackets to the case sides using the screws provided.



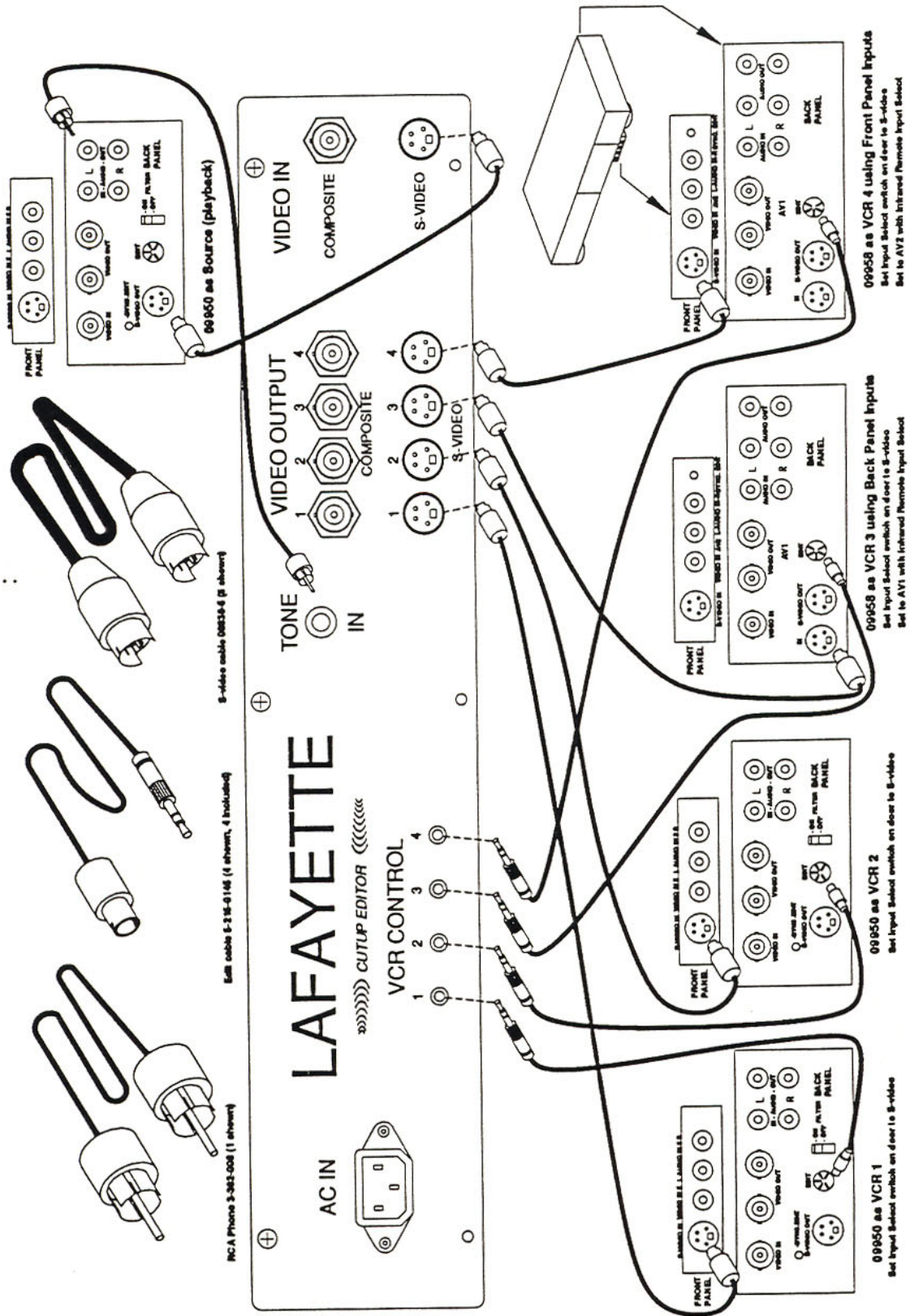


FIG. 4 TYPICAL CUTUP EDITOR WIRING

## Ordering Information:

All phone orders must be accompanied by a hard copy of your order. All must include the following information:

- 1) Complete billing and shipping addresses
- 2) Name and department of end user
- 3) Model number and description of desired item(s)
- 4) Quantity of each item desired
- 5) Purchase order number or method of payment
- 6) Telephone number

### DOMESTIC TERMS

There is a \$50 minimum order. Open accounts can be extended to most recognized educational institutions, hospitals and government agencies. Net amount due 30 days from the date of shipment. Enclose payment with the order; charge with VISA, MasterCard; or pay COD. We must have a hard copy of your order by mail or fax. Students, individuals and private companies may call for a credit application.

### INTERNATIONAL PAYMENT INFORMATION

There is a \$50 minimum order. Payment must be made in advance by: draft drawn on a major US bank; wire transfer to our account; charge with VISA, MasterCard; or confirmed irrevocable letter of credit. Proforma invoices will be provided upon request.

### RETURNS

Equipment may not be returned without first receiving a Return Goods Authorization Number (RGA).

When returning equipment for service, please call Lafayette Instrument to receive a RGA number. Your RGA number will be good for 30 days. Address the shipment to: Lafayette Instrument Company, 3700 Sagamore Parkway North, Lafayette, IN 47904, U.S.A. Shipments cannot be received at the PO Box. The items should be packed well, insured for full

value, and returned along with a cover letter explaining the malfunction. Please also state the name of the Lafayette Instrument representative authorizing the return. An estimate of repair will be given prior to completion ONLY if requested in your enclosed cover letter. We must have a hard copy of your purchase order by mail or fax, or repair work cannot commence.

### WARRANTY

Lafayette Instrument guarantees its equipment against all defects in materials and workmanship to the ORIGINAL PURCHASER for a period of one (1) year from the date of shipment, unless otherwise stated. During this period, Lafayette Instrument will repair or replace, at its option, any equipment found to be defective in materials or workmanship. If a problem arises, please contact our office for prior authorization before returning the item. This warranty does not extend to damaged equipment resulting from alteration, misuse, negligence or abuse, normal wear or accident. In no event shall Lafayette Instrument be liable for incidental or consequential damages. There are no implied warranties or merchantability of fitness for a particular use, or of any other nature. Warranty period for repairs or used equipment purchased from Lafayette Instrument is 90 days.

### DAMAGED GOODS

Damaged equipment should not be returned to Lafayette Instrument prior to thorough inspection.

When a shipment arrives damaged, note damage on delivery bill and have the driver sign it to acknowledge the damage. Contact the delivery service, and they will file an insurance claim. When damage is not detected at the time of delivery, contact the carrier and request an inspection within 10 days of the original delivery. Please call the Lafayette Instrument Customer Service Department for a return authorization for repair or replacement of the damaged merchandise.



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