

# ***Media Control Station<sup>2</sup>*** ***9 Pin Version***



## ***User's Manual*** ***First Edition***

©1997-2002 JLCooper Electronics  
142 Arena Street • El Segundo, CA 90245

***JL COOPER ELECTRONICS***

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# Introduction

The JLCoope<sup>r</sup> Media Control Station<sup>2</sup> is a remote control for machines that support Sony 9 Pin protocol.

The MCS<sup>2</sup> can control professional analog and digital VTRs, modular digital multitracks, and disk-based VTR emulators.

The MCS<sup>2</sup> features a smooth, weighted and optically encoded jog/ shuttle wheel and transport keys, to make video and audio post production easier than ever.

Please take a moment to send in your product registration card, so we can notify you in the future about any new products or updates as they become available.

# Connecting the MCS<sup>2</sup>

Connect the supplied external power supply to the power jack on the MCS<sup>2</sup>'s captive cable.

In case a replacement supply is used, see to it that it has the same rating as the original supply: The power supply's output is rated at 9 volts DC, 500 mA, with a center positive 2.5 MM plug.

Connect MCS<sup>2</sup> 9 Pin cable to the 9 Pin remote input of the machine that you are controlling.

# Features and Operation

## **Jog / Shuttle Wheel**

The wheel has two distinct modes of operation, Jog and Shuttle.

The wheel defaults to Jog mode on power up.

To change from Jog to Shuttle mode, press the Jog button to turn the LED off.

## **Jog Mode**

In Jog mode, playback speed and direction is proportional to the speed and direction that the wheel is rotated.

Rotate the wheel clockwise for forward playback.

Rotate the wheel counter clockwise for reverse playback.

In jog mode, continuously rotating the wheel results in 1X play speed, either forward or backward.

To stop the tape, simply stop turning the wheel.

## **Shuttle Mode**

In Shuttle mode, playback speed is related to the extent of rotation away from the starting position of the wheel.

Rotate the wheel clockwise for forward shuttle.

Rotate the wheel counter clockwise for reverse shuttle.

In shuttle mode, one does not continuously rotate the wheel. Tape continues to shuttle until the wheel is returned to its starting position. Alternately, simply press Stop. The current position of the wheel becomes its new starting position for the next shuttle operation.

## **Transport Keys**

The Transport keys control Rewind, Fast Forward, Stop, Play, and Record.

Record only operates if tracks have been enabled (“armed”) first. See Track Enabling below.

To Record, first arm tracks. Then press and release Play, and allow the machine to come up to speed.

Then press Play again and hold it down. While holding down Play, press Record. Then release both switches.

## **Track Enabling**

The MCS<sup>2</sup> has the ability to record-enable up to 8 tracks. On many machines, the first four tracks are audio channels, followed by video and assemble edit.

Tracks one through four are enabled by holding down the Shift button while pressing either

Fast Forward	(Audio 1)
Stop	(Audio 2)
Play	(Audio 3/TC)
Record	(Audio 4)

Tracks five through eight are enabled by holding down the Option button while pressing either

Fast Forward	(Video)
Stop	(Assemble)
Play	(Insert)
Record	(not used)

The MCS<sup>2</sup> has no input from the device being controlled, so it has no knowledge of any track enabling done on the front panel of the VTR machine itself. Nor does it know the status of the machine when the MCS<sup>2</sup> is first powered on. The MCS<sup>2</sup> powers-up operating under the assumption that all tracks are not enabled.

## **Additional Features**

### *Return to Zero*

Pressing Option and Rewind will cause a Locate 00:00:00:00 to be issued.

### *Shuttle Back at Play Speed*

Pressing Shift and Rewind will cause the tape to shuttle backwards at 1 X play speed.



# Quick Reference Chart

Following is a chart showing the 9 Pin commands sent with the various key combinations:

	<b>Rewind</b>	<b>Fast Fwd</b>	<b>Stop</b>	<b>Play</b>	<b>Record</b>
no Shift/Opt	Rewind	FF	Record Exit and Stop	Play	Record if Play held
Shift held	Shuttle back at play speed	Toggle Track 1	Toggle Track 2	Toggle Track 3	Toggle Track 4
Option held	Locate to 00:00:00:00	Toggle Track 5	Toggle Track 6	Toggle Track 7	Toggle Track 8

# Technical Information

## Specifications

Power Consumption ..... 20 mA  
Dimensions ..... 9 3/8" x 4 3/4" x 1 1/2"  
Weight ..... 24 oz.  
Protocol ..... Sony 9 Pin

## Care and Service

If properly cared for, your MCS<sup>2</sup> should provide years of trouble-free performance. Avoid dropping the MCS<sup>2</sup>, or hard banging on the keys.

Clean with a soft cloth dampened with window cleaner.  
Do not allow liquids to get inside the unit.

There are no user-serviceable parts in the MCS<sup>2</sup>. Please refer to the really fine print following for detailed warranty and service information.

## **JLCooper Electronics Limited Factory Warranty**

JLCooper Electronics ("JLCooper") warrants this product to be free of defects in materials or workmanship for a period of 12 months from the date of purchase.

This warranty is non-transferable and the benefits apply to the original owner. Proof of purchase in the form of an itemized sales receipt is required for warranty coverage.

To receive service under this warranty, customers in the United States should contact the JLCooper factory at (310) 322-9990 and talk to a service technician. If necessary, a Return Authorization number may be issued.

For our customers outside the United States, it is recommended that you first contact your Dealer or Distributor, since they may offer their own service or support policy.

If local support is not obtainable, please send a FAX to JLCooper's Service Department at (310) 335-0110, with a detailed description of the service required.

Upon issuance of return authorization, the product should be properly packed and shipped to Service Department, JLCooper Electronics, 142 Arena St., El Segundo, CA 90245.

Please include the following: copy of the sales receipt, your name and address (no P.O. Boxes, please), a brief description of the problem, and any other related items discussed with the service department and considered necessary to evaluate the product or effect a repair. The return authorization number must be clearly written on the outside of the package.

JLCooper will, without charge for parts or labor, either repair or replace the defective part(s). Shipping costs are not covered by this warranty.

JLCooper's normal repair turn around time at the factory is approximately 15 business days, from receipt of product to shipping. Your actual turn around time will include return shipping.

Actual turn around time will vary depending upon many factors including the repeatability of the customer's reported complaint, the availability of parts required for repair, the availability of related products needed to evaluate the product if necessary.

Priority services are available. These should be discussed with the service technician at the time the return authorization is issued.

This warranty provides only the benefits specified and does not cover defects or repairs needed as result of acts beyond the control of JLCooper including but not limited to: abuse, damage by accident/negligence, modification, alteration, improper use, unauthorized servicing, tampering, or failure to operate in accordance with the procedures outlined in the owner's manual; nor for acts of God such as flooding, lightning, tornadoes, etc.

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