

Lynx Time Code Module

Manual Supplement

No. MS 93-006

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MODEL: Lynx Time Code Module

REVISION: All

SERIAL NO: All

SOFTWARE: Prom Name Version
L500 26H

MANUAL: SAL 73A001

DESCRIPTION:

L500-26H

Sony Serial Communications:

Change to prevent potential corruption of serial communications with future AI-2 implementation. Also improves communication to non-Sony machines used on Sony settings.

Sony 3324/3348:

Change to eliminate problem with SSU installations where Sony 3348 put into play, at machine, requires repeated STOP keystrokes or play-then-stop, to get machine to actually stop.

General L500-26

This version will only work as stand alone (SAL). It will NOT work with an external editor.

Generator Tach > TC mode enabled. This will work only on the MASTER MACHINE.

Search/Park computation has been improved.

"gEn rEF" error message added. This occurs if you Jam-Sync when the incoming time code is not locked or the selected reference is wrong. The module will still allow the jam-sync, but if this error occurs, it indicates from that point on, the time code will not be synchronous.

General L500-26 (continued)

The generator will now automatically preset itself to a valid type of code if you go from int-xtal to ext-vid, and the type of code is wrong for the type of video selected.

Capstan Wild Speed

This is a new menu item in the transport menu. It is the last item after SERTC. This is an advanced feature, which should generally not be used, except by an experienced user. It allows the "wild speed" of a machine to adjust when a voltage-controlled machine does not run at the right speed before synchronizing, or a tape has been recorded off pitch. Please note that this information is held separately for each transport, and is restored when the transport is reselected. It is NOT erased when [clr + tran mode] is pressed. It is only erased if a complete memory clear is performed by holding the [clr] key on power up. This is to allow the information to be retained when selecting another machine.

The complete transport option menu list is as follows:

Phase	Phase mode on/off
Lift	Lifter control
Rly	Mute relay control
Spd	Locate approach speed adjustment
Sertc	Serial time code/Tape timer select for serial video decks
Capst	Capstan wild speed

L500-14 and later general

Instant entry into the transport menu by hitting [tran] + [setup] simultaneously.

Instant reset of transport parameters to factory default by [clr] + [tran mode] simultaneously.

Serial machines support CODE ONLY mode from a locked external time code source. This works with machines stopped, or unthreaded.

Longer tape-out error message on Lynx panel.

When changing SPD value on front panel, the chase characteristics of the machine will more closely track the value that is entered. (i.e., it will chase better after being modified.)

SERTC, Serial time code inhibit menu item added to Lynx front panel, this was previously available only from the KCU:

SERTC = 0 Active. This allows serial control machines using Sony/Ampex serial protocol to do field accurate search, and the module to read still-frame time code directly from the machine serial port. This was previously only available using the KCU, but now is available in the SAL mode of the L500 software.

SERTC = 1 Serial time code is inhibited

L500-14 and later general (continued)

"CAPSTAN" message added on the type of error which occurs when you forget to turn a machine capstan control switch to EXT, but try locking the transport. An AUTO [tran] [clr] of the capstan parameters occurs on this error.

GENERATOR TCT can now be switched directly from 30 to DF when in EXT VID mode. Previously, the module had to be put in INT XTL first.

MACHINE INTERFACES

Ampex VTR's

- "Non-VITC" mode search for Ampex VTR's working.
- On VPR6: extended edits will never abort.
- VPR300: Initializes to E/E off.

Ampex VTR's (continued)

- VPR80 updated. NOTE: Does not support remote tt/tc select. The tape timer select must be set to the correct value - "ATC" or "LTC" mode.
- VPR3/6/80: Record tally in EDIT fixed. NOTE: The VPR300 does not have an edit tally due to a software bug in the machine, that Ampex isn't going to fix.

Otari

- Stop pulse extended to help Stop problems on new MTR90 machines.
- DTR900-2A & DTR900-2d settings added.
- DTR900-1A & DTR900-1d Capstan control relay now releases in stop and wind.

Mitsubishi

- Stop pulse extended to help Stop problems on X880 machines. The X880 now has its own menu setting.

Akai

- Akai menu reconfigured to remove the requirement to do a hardware modification in AKAI DR1200 machines.

MACHINE INTERFACES (continued)

Fostex

- D20 machine supported on the serial port.
 1. Lynx requires serial interface option
 2. Select "Fos-d20" on the Lynx menu. (RMT light will light if machine is communicating, will flash if not communicating.)
 3. Select "BVE-900" (Ed-03) menu on Fostex NOT "Lynx" (ed-02). See instructions in Fostex manual/addendum for how to do this. Be sure to check all the dip-switch settings on the back of the D20.
 4. The D20 machines require both incoming time code and video sync in order to self-resolve. This is easy - patch the Lynx generator into the D20, and leave the generator running. Any time code number is fine.
 5. On the Lynx KCU, make sure you select "VITC ENABLE" on the [setup] [tran] menu. Otherwise the D20 may not locate correctly.
 6. To enable audio recording, enable track A1, which will enable A1 and A2 in the machine. Enabling A2 will not do anything. (This is the way the serial protocol was implemented in the D20.) Time code recording is enabled by enabling the TC track on the KCU.
 7. In order to edit, the REC MODE toggle switch on the machine must be switched to EDIT.
 8. When searching backwards, the machine will rewind approximately two seconds behind the search point, and creep up to it before stopping. This is normal.
 9. Unlike a video machine, the D20 does not resolve properly to video sync when put into play locally at the machine. Therefore, whenever locking up slaves to the D20, put it in play from the KCU.

Sony

- SerErr3 message removed when pushing ONLINE button on certain Sony machines.
- Video reference select on Sony VTR's changed to AUTO.
- Sometimes errors showing hours = 80 on VITC read fixed.
- Time code track data shows more correctly on KCU for certain machines, including BVW-75.
- Sony 3402 supported in mixed parallel/serial mode.
- BVU-800 machines initialize to SERTC = 1 (inhibited).
- Logic tally threshold voltages increased for MCI machines to allow use with some machines, which due to vintage, put out non-standard logic levels.
- APR24 capstan slew rate reduced to prevent machine from throwing an occasional loop on fast resync.
- BVU's and BVH record timing adjusted.
- The DVR-10 setting has been improved.
- The DVR-1000 setting has been improved.
- Sony 5850 works correctly.
- 3348 transport setting has been modified to accommodate the upgraded 3348 transport.

MACHINE INTERFACES (continued)

Studer

- A827 Record compensation timing has been corrected.
- D820 digital machine added. This machine must be jumpered for LOW SPEED TACH. The four settings are:

D820-PLA Parallel cable, "analog" (constantly servoed) mode

D820-PLD Parallel cable, digital (released) mode

D820-SLA Serial cable, "analog" (constantly servoed) mode

D820-SLD Serial cable, digital (released) mode

In the "D" modes, make sure the machine is connected to the same external video sync source as the Lynx modules, and that the Lynx reference source is set to EXT VID. The Studer machine also requires setting internally to the correct video/time code reference relationship. To check if this is correct, make the machine the MASTER, put it in PLAY, and look at SUBFRAME OFFSET ERROR. It should be approximately .00, with no drift.

The "D" mode also requires that when time code is striped, the machine and the generator are both referenced to EXT VID. If you have any question, stripe some tape, and then try the above test.

NOTES