



Lynx Keyboard Control Unit

Manual Supplement

No. MS 92-009

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MODEL: Keyboard Control Unit (KCU)

REVISION: All

SERIAL NO: All

SOFTWARE: KCU: U2 K600-09
U3 KCUT-004

MANUAL: 73A005

DESCRIPTION:

This Manual Supplement contains operating information for K600 Varispeed Keyboard Control software. The software supports fractional frame rate synchronization in the Lynx-2 module and the Lynx Gearbox Processor Option available for the Lynx Time Code and Film Modules. Please insert these pages into your Keyboard Control Unit Manual.

KCU 600-09 Features

- GPI Preroll range has been increased to +/-127 frames.
- In SETUP mode, the NTSC Option has been moved from [SYS] to [FILM].
- The Replay Register is no longer updated when [PLAY] is used to drop out of Record or Rehearse.
- List Selection has been removed in SETUP Mode.
- A Master machine with an offset that is not the Reference machine, will now cue properly in Edit.

Software History:

KCU 600-08 Features

Internal changes only. No change to user functionality.

KCU 600-07 Features

- Special Function Keys:
The KCU special function keys IN, OUT and CUE, now operate in the following way:
When in group or stat mode, the registers will capture times from the Master machine. When in solo mode, the times are captured from the selected slave. In both cases the register times are converted to reference time and code type.

DESCRIPTION (continued):

KCU K600-06 Features

- **X-Frame Reference:**
This software version permits the Lynx-2 Film module to operate as a X-Frame reference machine.
- **Setup:**
Film Options, Ref Code Type menu has been added. This allows the user to set the system reference code type when a Lynx-2 Film module is selected as the reference machine.

General KCU K600-05 Features

- **PROMS:**
KCU software is now supplied on two PROMs. Both PROMs must be installed for the software to operate correctly. The second PROM is referred to as the Table PROM in documentation and software messages. Install the Table PROM in KCU position U3, as indicated in the KCU PROM Installation Guide.
- **Solo Mode:**
Operation of group status mode has been changed. The STAT key now functions as a SOLO key, (a new keycap with the correct designation is supplied with the software upgrade). In group mode, pressing a machine key (A-F) automatically enters status mode and displays the machine error. Pressing the SOLO key followed by a machine key (A-F) will solo the machine, and automatically display the machine error. To return to group mode press the GRP or SOLO key a second time.
- **Setup:**
Access to setup mode is now available when no machines are selected to the group. At least one module must be communicating on the Lynx RS422 bus to access setup.
Machine status is now correctly restored when exiting setup mode.
Key setup option, "Rehearse by" has been added. Press SETUP followed by REH, then select one key operation (Reh only) or two key operation (Play + Reh).
- **Master Machine:**
The master machine is now selectable by pressing SETUP simultaneously with the machine key (A-F). The new master machine letter will be capitalized and all offsets transferred to maintain the correct positional relationship. Previously, to change masters required that the system be repolled.
The first machine selected to the group after polling, is the system reference machine, indicated with an asterisk (*).
It is no longer necessary for the system reference machine to be the master, which can now be offset from the reference machine. System wide time code numbers, such as edit in and out, duration and all offsets are expressed in the reference machine time code. For example, "a*" is DF and the reference machine and "B" is the master and 30 frame. The edit in and out points will be still be expressed in DF time code.
Only the master machine letter is capitalized at all times. Previously, all machine letters were capitalized in solo, the correct upper and lower case status is now used.

DESCRIPTION (continued):

General KCU K600-05 Features Cont.

- **24 Frame Code:**
24 frame time code is now fully supported. Lynx module software versions V500-26d and FV500-26d or higher, are required for 24 frame to operate correctly with the KCU.
- **Store Time:**
Store time has been implemented. Solo a machine and press STO followed by TIME. The number in the calculator will be stored in the Lynx module. This is used to preset a Lynx module time code reader to a specific time and is normally used with Lynx Film Modules to set the film position or when tapes have no time code.
- **GPI Group Lock:**
A new selection, Group Lock has been added to the GPI setup options. If selected, this will cause the GPI to close when all machines in the group are locked. The GPI options are, Normal, Autoset, Rec Tally, Edit-Rec and Group Lock.
- **Clear Tran:**
The Lynx module transport parameters can now be reset to the factory default setting from the KCU. Solo the machine and press CLR + TRAN, a warning message "Transport Clearing now" will be displayed. This function will only be supported with V600 module software and future versions of V500.
- **Calculator:**
Entering and using negative numbers in calculator time code operations now works correctly. The back space key, BS, operates correctly when used with Film Footage display.
- **Film Feet Display:**
Film footage number entry has been changed so that feet and frames are now entered as one number, in exactly the same way time code is entered. Perfs can be entered by pressing the subframe (SUB FR) key. Perf and Frame entries now correctly carry forward.

Features, KCU080-16D:

- Group, solo and status modes now prevent assigning non-existent machines.
- CUE + LOC will locate to the edit point with no preroll.
- Store TIME will transmit a preset time from the KCU to the selected Lynx module in solo mode.
- **Track-Select:**
All machines should now show correct track designation names.
Multitrack machine track enable is supported for serially controlled machines.
Pressing CLR + TRKS will clear all enabled tracks.
Machines now default to all tracks safe.
In TRKS mode, switching from machine-to-machine will bring up the correct track enable display.
New message added "Track is safe or not available."
Assemble added for video machines.
Record-enable bars do not flash in External track select mode.

DESCRIPTION (continued):

General KCU080-16D Features Cont.

- **Memory Capture Feature:**
Press CAPT + MEM to enter capture mode. Every time the CAPT key is pressed the current time code will be stored in the next memory position. Exit capture mode by pressing any calculator key.

New Setup Menu Entries

- **SETUP SYS menu has two new entries:**
 - Wheel Rate:**
This allows the speed of operation for the jog wheel to be adjusted to personal preference.
 - Ref Src:**
This can be set to Ext Vid, Int Xtal, Mains or VSO. This is used to select the master Lynx module timing reference. The Ref Select LED's on the module will switch to indicate the selected system reference source.
- **SETUP TRAN menu has a new entry:**
 - VITC option:**
This can be set to Enable or Inhibit. Determines if the Lynx module will read time code from the video machine serial port in slow motion or still modes.
- **SETUP EDIT menu has two new entries:**
 - Edits roll as:**
This can be set to Slaves only or Mast/Slave. The default mode is "Slaves only." This will give the fastest lockup time and best performance. Use Mast/Slave if problems are experienced with the master machine when editing but not when playing.
 - Edit Q/C:**
Stop has been added. The options are now Off, Normal and Stop.
- **SETUP EVNT menu has two new entries. GPI's now have four operational modes:**

Normal	Autoset off as described in manual.
Autoset	As described in manual.
Rec Tally	Allows use of event relay as record tally.
Edit Rec	Allows use of event relay when an edit rolls.

General KCU080 Software Features

- **Film feet display:**
Film footage display is enabled by pressing the FILM key to the left of the SETUP key. Film footage computation is for 24 fps film rate only. Footage count is displayed as FFFF ff.p, (Feet frames and Perfs). The perfs display is only used with offsets.
- **Auto poll:**
An automatic poll will occur on power up. The POLL key only needs to be used when the Lynx modules are turned on after the KCU.

DESCRIPTION (continued):

General KCU080 Software Features (continued)

- **Stuck keys:**
KCU keys are checked during power up. An error message is displayed if any key is detected as stuck.
- **VTR drum stop:**
Multiple presses of the KCU STOP key will stop the drum on serially controlled VTRs.
- **Track enables:**
The calculator keypad is used to track enable small format machines.
For multitrack machines (more than 8 tracks), the jog wheel or LAST and NEXT keys are used to select specific tracks and the +\ - keys are used to track enable. On machines with more than 24 tracks, pressing the TRKS key a second time will display tracks 25-48.

