Chapter 5 Troubleshooting

Introduction

The Micro Lynx provides several levels of user information: system error messages, prompts, messages and warnings.

System error messages are displayed when the Micro Lynx is unable to perform due to a system failure or communications discontinuity.

Messages are displayed if a command sequence is entered incorrectly or a precondition is required for a command to operate.

Warnings are displayed if an illegal combination of commands is entered, access is attempted to a device that doesn't exist or a condition exists that the operator may need to be aware of.

Prompts are displayed as a reminder when a specific keyboard entry sequence is required.

System Error Messages

System error messages are not automatically displayed. When an error occurs, normal operation can continue provided that communications between each piece of the system have not been completely dropped. The [SYS] key will flash to indicate that a system error has occurred.

The Micro Lynx can generate and save multiple error messages. Each time an error condition occurs, such as losing communications between the Micro Lynx Keyboard Controller (KBD) and System Unit (SU), an error message is added to the stack. The error message stack is a list of errors created by the Micro Lynx program, which can be read at any time.

Procedure

1. SYS LED flashing

   When the SYS LED flashes, a system error has occurred.

2. [SYS]

   Comm error

   The first error message in the error stack or list is displayed. Note down the message as you will be asked for this information by the factory should you be unable to correct the problem. Communications error is used in this example.

3. [SYS]

   Next error or
   Normal display

   Press [SYS] again to see the next error message and to exit when the list is done. The Micro Lynx holds error messages in a stack, when the top message is removed the next one is displayed. Repeat step 3 until all messages have been read.

4. [CLR]

   Display clears

   Press the [CLR] key to exit SYS ERROR mode and return to a normal operating display without clearing the list.

ACG input lost lock

Cause: The ACG Option card has not locked to the incoming AES/EBU, Word or Oversample Clock because the signal is either not present or out of range.

Solution: Verify that the external digital audio clock is present and connected to the correct input. Check that the ACG setup parameters have been correctly configured.

ACG output lost lock

Cause: The ACG Option card has not locked to the system reference.

Solution: Verify that the selected system reference is present. Check that the Keyboard Ref Lock LED is on.

Communications error

Cause: The connection between the System Unit (SU) and the Keyboard Controller (KBD) has been dropped either momentarily or completely. Each time there is a communication error this message will be added to the stack.

Solution: Check the SU to KBD cable connection, reset either the SU or the KBD.

Reference Not Present

Cause: A reference source, that is not present, has been selected.

Solution: Verify that the reference source is connected or that the correct reference source has been selected.

Reference Src Changed

Cause: The reference source has been changed at some point

during operations. This may have occurred inadvertently.

Solution: Verify that the correct reference source is selected by checking TCG Option menu, in Setup mode.

System Err XXXX

Cause: An internal communications inconsistency has occurred. The error type XXXX is a Hex number that will assist the factory in locating the problem. System error codes are specific to different parts of the Micro Lynx system. The first two characters define where the error was produced. The second two characters are the type of error.

For example:

00XX is	System
88XX is	ACG card
A0XX is	machine A
A2XX is	machine B
A4XX is	machine C
E0XX is	VITC

Solution: Note the system error number and contact the factory for further information.

System Fps Changed

Cause: The system frame rate has been changed at some point during operations. This has probably been caused by a change in the reference machine time code type.

Solution: Verify that the correct time code is present on the tapes. Check that the correct frame rate and code type are selected, by checking TCG Option menu, in Setup mode.

Tran:X Ampex Serial Checksum Error

Cause: A serial communications error has occurred with the specified Ampex transport.

Tran:X Serial NAK Error

Cause: The specified serially controlled transport has responded with a negative acknowledge (NAK) to a Micro Lynx command.

Solution: Verify that the correct transport type has been selected in the Tran Setup menu.

Tran:X Sony Serial Checksum Error

Cause: A serial communications error has occurred with the specified Sony transport.

Self Test Messages

The Micro Lynx Keyboard has a Self Test procedure, that is invoked by pressing [GRP] + [SYS] and then confirming the key selection. The following messages and information is displayed during the self test process.

Running Self Test *Cause:* The keyboard self test procedure has been initiated.

Checking Ram: 8K *Cause:* The keyboard RAM is being checked.

Checking Rom: 64K *Cause:* The keyboard ROM is being checked.

Checksum *Cause:* The keyboard PROM is read and the checksum displayed. Press any key to continue self test.

Dspl Contrast *Cause:* The display contrast is ramped from 30% to 100%.

Verify Lights *Cause:* All keyboard LED's are lit for verification. Press any key to continue self test.

LED Brightness *Cause:* The keyboard LED's are ramped from 20% to 100% to check brightness matching.

No keys pressed *Cause:* The keyboard key test routine is entered. Press keys to confirm that they are being correctly scanned, the associated LED will also be tested. Press [SETUP] + [CLR] to exit the key test routine.

Annn Bnnn Xnnn *Cause:* The Jog/Shuttle test routine is entered, turn the wheel to check that the encoder values change. Press [CLR] to exit self test.

When Self Test is complete the Micro Lynx Keyboard will cold boot and return to normal operation.

Error Messages

Can't do this

Cause: You can't capture to the pre, post, or duration register.

Solution: Repeat the capture sequence and select a different register or memory.

Must be slave

Cause: An operation has been selected that is only relevant to a slave transport. There are several operations that can only be performed on slave machines, not the reference or master machine. For example, setting an offset or a source sync point is done on a slave machine.

Solution: Select a slave machine.

Tran:X Capstan Error

Cause: The capstan of the specified transport is not responding to synchronization control.

Solution: Make sure that the transport is set for external control.

Tran:X No serial communications

Cause: The specified transport is not responding to serial control.

Solution: Make sure that the cable is properly connected to the transport. Check that the correct transport type has been selected in the transport setup menu.

Tran:X Tape Out

Cause: The specified transport is not responding to a Micro Lynx motion command. The most common cause of this message is that the tape has spooled off the machine.

Solution: Check that there is a tape threaded on the machine.

Tran:X Transport in Local

Cause: The specified serially controlled transport is switched to local.

Solution: Check that the Remote switch is set to remote at the machine.

Warnings

All groups not locked, Edit aborted

Cause: All machines within a group have not locked before the In Point in an Edit sequence. The system will retry the Edit unless Edit Q/C has been set to Stop in the Edit Options menu.

Solution: Establish which transport is not locking and rectify the problem. Lengthen the preroll, or if it is the master machine try operating in Group, Master/ Slave mode.

All groups not locked, Q/C off

Cause: All machines within a group have not locked before the In Point in an Edit sequence. The system will continue to roll the edit as Edit Q/C has been disabled in the Edit Options menu.

Solution: Establish which transport is not locking and rectify the problem.

Cue point after normal preroll, ignored

Cause: An Edit command has been issued and the Cue Point is after the In Point minus the system preroll.

Solution: Clear or set a new Cue Point.

Edit ended early

Cause: An Edit sequence ended before the machines had reached the Out Point. This normally is the result of pressing stop or play.

Holding memory unless you press and hold [CLR] key within 1 second

Cause: The Keyboard Controller has been reset by pressing [CLR] + [SETUP] and confirmed. If you press [CLR] the memory and register contents will be reset to the factory defaults. If not the current register and memory values will be retained.

Lamp test, Clearing memory

Cause: A keyboard cold boot operation is in process. The keyboard will reinitialize to default parameters. Some information will be cleared.

Lamp test, Holding memory

Cause: A keyboard warm boot operation is in process. The keyboard variables will re-initialize. No information is cleared.

No in-point or cue-point set

Cause: A CUE command to locate the transports to the Cue Point has been issued and no Cue or In Point is set.

Solution: Set a Cue or In Point by using the [F3] or [F1] keys. Time code values can also be entered and stored to these registers by using [STO] and [CUE] or [STO] and [IN].

Not Available

Cause: A transport or device has been selected that is not available.

Solution: Select a different transport.

Old offset used

Cause: When trimming an offset, the trim process was exited by pressing [CLR].

Solution: This message informs you that the new offset was not saved and the old offset will be used; the offset wasn't changed or adjusted by the aborted trim operation.

"Out" must be later than "in"

Cause: An Edit command has been issued when the Out Point is before the In Point.

Solution: Set a new Out Point after the In Point.

System Unit Clearing Now

Cause: A [CLR] + [SYS] command has been entered and confirmed. The SU will reset to default parameters and all setup information will be lost.

Transport Clearing Now

Cause: A [CLR] + [TRAN] command has been issued for the soloed transport. The transport will reset to default parameters.

Tran:X Play Speed 30 ips

Cause: The specified transport speed has changed to 30 ips.

Tran:X Play Speed 15 ips

Cause: The specified transport speed has changed to 15 ips.

Tran:X Play Speed 7.5 ips

Cause: The specified transport speed has changed to 7.5 ips.

Track is safe or not available

Cause: A track record enable command has been ignored because the track has been set to safe or the Micro Lynx system cannot enable it.

Solution: Use the setup menu to select and set the track to ready and then set the track to enable.

WARNING: open end

Cause: An Edit command has been issued and no edit Out Point has been entered.

Solution: Set an Out Point by using the [F2] key. A time code value can also be entered and stored as the Out Point by pressing [STO] + [OUT].

WARNING: No active transports enabled

Cause: No transports have been record readied in Edit; therefore, the Micro Lynx will not issue the Record or Rehearse commands.

Solution: Set one or more transports to record ready by using the [RDY] and machine select keys.

A, B, or C Does Not Exist

Cause: You have tried to solo or group a machine that is unavailable. For example, selecting C when the Machine Expansion Card (M3) option is not installed.

Solution: Install a Machine Expansion Card. Verify that the machine setup is correct.

VITC Lines Changed

Cause: The VITC reader is in auto mode and has switched to a new pair of lines because the previously used line pair is no longer available.

Solution: Select the required pair of lines, using VITC fixed line mode operation

VITC Mismatched Lines

Cause: The VITC reader is in fixed mode and the time code on the currently selected line pair does not match.

Solution: Select a matching pair of lines.

Prompts

Hold [GRP] key and add groups in order of priority

Cause: Micro Lynx requires that machines are selected to a group for synchronization. If no machines are selected to the group then this prompt is displayed. The GRP LED and the available machine select keys (A-C, TCG) will flash.

Solution: Hold the [GRP] key and press machine select keys (A-C, TCG) to make a group. Remember, the machine key selected first will be the reference machine.

Macro is already programmed. To clear: [MACRO] + [0-9]

Cause: You have selected a Macro for programming that is already programmed or has been pre-programmed.

Solution: Select a Macro that is blank or press and hold the [MACRO] key and the macro number (0-9) to clear the macro.

Press [ENTR] to confirm

Cause: A data loss function has been selected. Micro Lynx prompts for a confirmation before performing the command. When this prompt is used, the command will involve resetting the system.

Solution: Press [ENTR] if you wish to proceed or any other key to exit.

Program Macro: 0 - - - 4 5 6 7 8 9

Cause: The macro programming function has been entered by pressing [SETUP] + [MACRO]. Macros that are available for programming are displayed.

Solution: Press a Calculator key to select a Macro to program.

Recall mem

Cause: [MEM] has been pressed and Micro Lynx is prompting for a memory selection.

Solution: Select memory number.

Recall reg or mem

Cause: [RCL] (Recall) has been pressed and Micro Lynx is prompting for a register or memory selection.

Solution: Select a valid register or press [MEM] followed by the memory number.

Select valid reg

Cause: Trim mode has been selected and an invalid register or no register is present in the calculator data entry buffer.

Solution: Use [RCL] to select the register you want to trim or [CLR] to cancel.

Set an “in” point

Cause: Edit mode has been entered and no edit In Point has been set.

Solution: Capture or enter a time code value and store it in the In Point register.

Solo a grp first

Cause: You have attempted to recall or store a sync point or offset register while in group mode.

Solution: These operations may only be performed in solo or group status mode. Select solo or status modes and repeat the operation.

Solo the ref group

Cause: A reference sync point can not be captured in group mode or if a slave machine is selected in solo mode.

Solution: Solo the reference machine.

Store reg or mem

Cause: The [CAPT] or [STO] keys have been pressed. Micro Lynx is prompting for a valid register or memory number.

Solution: Select a valid register or press [MEM] followed by the memory number.