

Miscellaneous

- Key.....	4-23, 6-19
+ Key	4-23, 6-19
<< Key	6-7
= Key	6-19
> Key	6-7
>> Key	6-7
0 TIME Key.....	6-17
0 VID KEY.....	6-17
00 Key.....	4-6, 6-16
1 A1 Key.....	6-17
1 PRE Key	6-17
2 A2 Key.....	6-17
2 POST Key.....	6-17
25-Pin Cable	3-4
3 A3 Key.....	6-18
3 REF Key	6-18
4 A4 Key.....	6-18
4 SYNC P Key.....	6-18
5 CUE Key.....	6-18
5 OFST Key.....	6-18
6 ERR Key.....	6-18
6 TC Key	6-18
7 IN Key	6-18
8 OUT Key	6-18
9 ASM Key.....	6-19
9 DUR Key	6-19
9-Pin Cable	3-6, 3-7

A

A1 Key.....	6-17
A2 Key.....	6-17
A3 Key.....	6-18
A4 Key.....	6-18
AC Main Frequency.....	4-3
AC Mains Voltage	3-4
AC Outlet.....	3-2
A-F Group Keys.....	6-14
All Groups Not Locked.....	5-6
ALL STOP Key	6-5
Arithmetic Operators	6-19, 6-20
ASM Key	6-19
Audio Channel 1	6-17
Audio Channel 2	6-17
Audio Channel 3	6-18
Audio Channel 4	6-18
AUX LEDs	6-23
Auxiliary Function Keys	6-15, 6-20

B

BANK Key.....	6-15
Bar Status	7-14
BUSY LEDs.....	6-22

C

Cables	
25-pin.....	3-4
9-pin.....	3-6
connecting KCU	3-2
connecting KCU and power supply	3-4
harnessing	3-2
Cables Required	3-2
Cables Supplied.....	3-3
Calculator	
and auxiliary function keys	6-15
defined	6-15
entering numbers.....	6-15
scratch pad	6-4
varispeed.....	7-8
Calculator Keys	
- Key	6-19
+ Key	6-19
= Key	6-19
0 TIME Key.....	6-17
0 VID Key	6-17
00 Key	4-6, 6-16
1 A1 Key.....	6-17
1 PRE Key	6-17
2 A2 Key.....	6-17
2 POST Key.....	6-17
3 A3 Key.....	6-18
3 REF Key	6-18
4 A4 Key.....	6-18
4 SYNC P Key.....	6-18
5 CUE Key.....	6-18
5 OFST Key.....	6-18
6 ERR Key.....	6-18
6 TC Key	6-18
7 IN Key	6-18
8 OUT key	4-11, 6-18
9 ASM Key.....	6-19
9 DUR Key.....	6-19
auxiliary function keys.....	6-20
CLR Key.....	6-16
Cancel or Reset System Parameters	6-16
CAPT Key.....	4-4, 6-21
CCU, defined.....	1-8

Index

- Checking RAM 8K 5-4
- Checking ROM 64K 5-4
- Checksum xxxx 5-4
- Clear Duration Register 4-12
- Clear Entries 6-16
- Clear In Point Register 4-10
- Clear Out Point Register 4-11
- Clear Registers 6-16
- Clear Sync Point Register 4-8, 4-9
- Clear the Data Entry Buffer 6-16
- Clear the Transport Type Data Buffer 6-16
- Clearing KCU 4-2
- CLR Key 4-2, 6-9, 6-16
- Communications Testing 3-9, 3-10
- Console Control Unit (CCU) 1-8
- Control Panel 1-5
- CUE Key 6-5, 6-18
- Cue Point After Normal Preroll 5-6
- Cue Point Register 6-24
- CUE PT Key 6-25
- Cue to the Time Code 6-5
- D**
- Daisy-chain Modules 7-11
- Device Select Keys 6-11
- Display
 - AUX LEDs 6-23
 - error messages 4-22
 - error register 4-23
 - record status 6-23, 7-14
 - version numbers 4-23
- Drop Frame Code 4-20
- DUR Key 4-11, 6-19
- Duration Register 4-11, 6-12, 6-19, 7-13
- E**
- Edit Ended Early 5-6
- Edit In Point Register 4-9, 6-18
- EDIT Key 6-6
- Editing 4-20
- Electrical Requirements 3-2, 3-3
- END PT Key 6-25
- ENTR Key 6-10
- EQUAL Key 6-19
- ERR Key 4-9, 6-18
- Error Register 4-9, 6-18
- Errors
 - keyboard, display 5-2
 - keyboard, displaying 5-2
 - recalling error register 4-23
 - serious communications error 6-22
 - subframe 4-23
 - System Supervisor 5-5
 - system, displaying 4-22
 - varispeed, displaying 7-10
- EVNT Key 6-12, 7-13
- EVNT Setup Options Menu 6-12, 7-13
- Ext Video 4-3
- F**
- FAST FORWARD Key 6-7
- Film Dubbing 1-8
- FILM Key 6-11
- Film Modules 1-6
- Flash Rec Lamp 7-14
- Fuses 3-6
- G**
- Gearbox Option Card 7-2
- Gearbox Processor 1-6, 4-27
- Gearbox with KCU and Varispeed 2-4
- GEN Key 6-11, 6-14, 7-16
- General Purpose Interface 3-7
- GPI
 - closures 3-7, 7-12
 - connector 3-7
 - differences in SSU 7-12
 - EVNT settings 6-12, 7-13
 - select to operate 6-6
 - Supervisor connector 3-8
- GPI Relays 3-3, 3-7, 6-12
- Group Mode Display 6-2
- Group Mode Indicator 6-4
- Group Options Menu 7-14
- Group Park Ahead 7-14
- Group Select Keys 6-14
- Grouping Machines
 - assigning group 4-13
 - locking in a group 4-14
 - removing from group 4-13
- GRP Key 4-13, 6-14
- H**
- Hardware
 - cables 3-1, 3-3
 - fuses 3-6
 - power supply 3-1
 - supplied with KCU 3-1
- Hardware Required
 - AC outlet 3-2
 - Cabling 3-2
- High Resolution Format 6-21
- Hold GRP Key and Add Groups 5-2
- I**
- IEC Power Cord 3-4
- IN Key 4-9, 4-10, 6-18, 6-24
- In Point Register 4-9, 6-18, 6-24
- Initialization
 - of SSU 7-11
 - power on 3-2
- Installation
 - cabling harnesses 3-3
 - KCU power supply 3-5

- Installation (continued)
- Lynx-2 Time Code Module 3-1
 - SSU 7-10
 - Int Xtal 4-3
 - Interface Diagrams
 - KCU stand alone 3-10
 - post production system audio 3-10
 - Internal Crystal 4-3, 7-16
- J**
- JOG Key 6-10
 - Jog Mode 6-10
 - Jog Wheel 6-9, 6-23
 - assembly 1-10
 - jog mode 6-10
 - shuttle mode 6-10
 - trim mode 6-9
- K**
- KCU**
- applications 2-1
 - connecting to power supply 3-4
 - defined 1-1
 - display screen 6-2
 - features 1-3
 - memory 4-4
 - messages 4-22
 - options menus 4-26, 7-12
 - powering up 4-2
 - resetting 4-2
 - setting up 3-10
 - software for SSU 7-10
 - software for varispeed 7-2
 - stand alone diagram 3-10
 - system overview 1-4
 - using with SSU 7-11
- KCU and SSU Operation 2-5
- KCU Configured with SSU 7-13
- KCU with Varispeed and Gearbox 2-4
- KCU330**
- error messages 5-5
 - TCG as a machine 6-14
- Keyboard Control Unit (KCU) 1-5, 4-1
- L**
- Lamp Test, Clearing Memory 5-7
 - Lamp Test, Holding Memory 5-2, 5-7
 - LAST Key 4-23, 6-9
 - LEDs 6-22, 6-23, 7-14
 - List 4-27
 - LIST Key 6-13
 - LOC Key 4-5
 - Local Zero Register 4-6
 - Locate to the Time Code 6-5
 - Lock Status 6-3
 - Locking Machines 4-3, 4-14, 6-3, 6-4
 - LOOP Key 4-28, 6-14
- Keyboard Control Unit**
- 09/08/00
- Lynx Keyboard Control Unit 5-2
 - Lynx-2 Time Code Module 3-1
 - chaining to next module 3-7, 7-11
 - defined 1-6
 - internal crystal 4-3
 - polled by the KCU 3-2
 - testing communications 3-9
 - with SSU 7-11
 - Lynx-2 Time Code Modules
 - on line 4-3
- M**
- Machine Offset Error Register** 4-9
- error 6-18
- Machine Select Keys 6-3, 6-14
- Machines**
- group 4-13
 - locking in a group 4-14, 6-4
 - modes 4-12
 - offsets 4-16
 - removing from group 4-13
 - solo 4-3
 - spooling 6-9
 - status display 6-2, 6-3
- MACRO keys 6-25
- Macros, defining 6-25
- Macros, using 6-25
- Mains 4-3
- Master Machine**
- changing 4-15
 - in SSU 7-14
 - in varispeed 7-2
 - separating from reference machine 4-15
 - stopping 6-7
 - synchronizing 4-3
- MEM Key 4-4, 4-5, 6-13
- Memory**
- capture 4-4
 - changing size 4-5
 - locate 4-5
 - register 6-13
- Menu**
- group options 7-14
- Menus**
- EVNT setup options menu 6-12, 7-13
 - loop options 4-28
 - record options 7-14
 - setup options 4-23
 - system options 4-28, 7-15
 - system reference 7-15
 - system speed code 7-16
 - time code generator options 7-16
 - TRAN options menu 4-29
 - TRKS options 4-28
- Messages, displaying 4-22
- MIDI Time Code 7-17
- MINUS Key 6-19

Index

- Mixed Code.....4-20, 7-2
- Mode.....4-23
 - group4-13, 6-2
 - jog.....6-9, 6-10
 - machine4-12
 - setup4-23
 - shuttle6-9, 6-10
 - solo4-12, 6-2
 - status.....4-23
 - trim6-9
- Modes
 - operating modes with K600 and K3007-1
- N**
- NEXT Key4-23, 6-10
- No In Point or Cue Point Set.....5-7
- No Keys Pressed5-4
- NTSC Default7-16
- NTSC Preset Standard2-4
- O**
- Offline Transport Module6-4
- Offset
 - and time codes.....4-19
 - calculating with sync points.....4-17
 - defined.....4-16
 - setting4-16
 - storing.....4-19
 - trimming4-18, 6-9
 - using subframe information.....6-21
 - varispeed pivot point7-3
 - when used.....4-16
- Offset Register4-9, 6-18
- Offsets
 - in varispeed7-4
- OFST Key4-9, 6-18
- ON LINE.....6-22
- ON LINE Key4-3, 6-22
- Options
 - differences in SSU7-12
 - EVNT setup options6-12, 7-13
 - group options menu7-14
 - loop options4-28
 - menus4-26
 - record options menu7-14
 - setup options.....4-24
 - system options4-28, 7-15
 - time code generator options.....7-16
 - tracks options.....4-28
 - TRAN options menu.....4-29
- OUT Key.....4-10, 6-18, 6-24
- Out Must be Later than In5-7
- Out Point Register4-10, 6-18, 6-24
- P**
- PAL Default7-16
- PAL Preset Standard2-4
- Pivot Point
 - defined7-3
 - example.....7-4
- Pivot Points
 - setting.....7-4
- Play Backward.....6-6
- PLAY Key.....6-7
- PLUS Key6-19
- Poll Key.....4-2, 4-3, 6-22
- Poll Key, described4-2
- Polling
 - by KCU4-2
 - during sign-on4-2
 - KCU establishing communications3-10
 - Lynx-2 by the KCU.....3-2
 - serial communications bus6-22
- POST Key4-7, 6-17
- Postroll Register4-7, 6-17
- Power Down4-2
- Power Off4-26
- Power Supply1-12
 - connecting to KCU3-4
 - fuses3-6
 - GPIs3-7
 - installing KCU3-5
 - supplied with installation3-1
- Power Up.....4-2
- PRE Key4-7, 6-17
- Preroll Register.....4-7, 6-12, 6-17, 7-13
- Press ENTER to Confirm5-3
- PROM Installation Guides7-2
- Prompts5-2
- R**
- RCL Key.....6-20
- REC ENABLE Key.....6-23, 7-14
- REC Key6-8
- REC LED6-8
- REC LEDs.....6-23, 7-14
- Recall Reg or Mem.....5-3
- Record4-20, 6-8, 6-23
- Record Enable6-12
- Record Status.....6-8
- REF FOLLOW MSTR7-14
- REF Key4-8, 6-18
- REF SYNC Key6-24
- Reference
 - changing time code4-27
 - machine.....4-15, 4-16
 - selections.....4-3
 - system4-3, 6-4
- Reference Sync Point Register4-8, 6-18, 6-24, 7-5
- Register Values, Adjusting6-9
- Registers
 - accessing time code registers4-6, 6-16
 - capturing a value6-21
 - duration.....4-11, 6-19

- Registers (continued)
- error 4-9, 6-18
 - in point 4-9, 6-18
 - local zero 4-6
 - offset 4-9, 6-18
 - out point 4-10, 6-18
 - postroll 4-7, 6-17
 - preroll 4-7, 6-17
 - recalling values 6-20
 - reference sync point 4-8, 6-18
 - source sync point 4-8, 6-18
 - storing values 6-20
 - storing values with special function keys 6-24
 - time 4-7, 6-17
 - REH Key 6-8
 - REH LED 6-8
 - Rehearse 4-20, 6-8, 6-12, 6-23, 7-13
 - Remote Motion Controller 1-9
 - Replay 4-20, 6-6
 - REPLAY Key 6-6
 - Resetting a Machine Select Key 4-29
 - Resetting KCU 4-2
 - REWIND Key 6-7
 - Rewind Machine 6-6, 6-7
 - RMC, defined 1-9
 - ROLLBACK Key 6-6
 - RS422 Communications 4-2
 - RS422 Connector 3-6, 3-7, 6-22
 - RS422 Serial Bus 3-2
 - Running Self-Test 5-4
- S**
- Select Valid Register 5-3
 - Self-Test
 - invoking 5-4
 - Set an In Point 5-3, 5-7
 - Setup
 - example 4-25
 - mode 4-23
 - using the NEXT Key 6-10
 - SETUP Key 4-5, 4-23, 4-26, 6-11
 - Setup Options 4-24
 - SHUTTLE Key 6-10
 - Shuttle Mode 6-23
 - Shuttle Wheel 1-10
 - SMPTE Time Code 1-6
 - Software Version Numbers 1-1, 4-23, 5-2, 6-11
 - Solo a Group First 5-3
 - Solo a Machine 4-3, 4-12
 - SOLO Key 4-12, 6-14
 - Solo Mode Indicator 6-2, 6-4
 - Solo the Ref Group 5-4
 - Source Sync Point Register 4-8, 6-18, 7-5
 - Special Function Keys 4-17, 4-20, 6-24
 - as shortcuts 4-17
 - CUE PT key 6-25
 - END PT key 6-25
 - Special Function Keys (continued)
 - IN key 4-10, 6-24
 - OUT key 6-24
 - REF SYNC key 4-9, 6-24
 - SRC SYNC key 4-9, 6-25
 - Specifications
 - fuses 3-6
 - KCU 1-12
 - Spooling 6-9
 - SRC SYNC Key 6-25
 - SSU
 - configuration requirements 7-10
 - SSU and KCU Operation 2-5
 - SSU, defined 1-7
 - Stand-alone KCU Operation 2-2
 - Stand-alone KCU with a VTR 2-3
 - Status
 - lock 6-3
 - machine 6-2
 - record 6-8
 - Status Indicators 6-22
 - Status LEDs 4-3
 - STO Key 6-9, 6-20
 - STOP Key 6-7
 - Stop Transport 6-5, 6-7
 - Store Reg or Mem 5-4
 - Storing a Time Code Value 4-4
 - SUBFR Key 6-21
 - Subframe
 - default trim value 6-21
 - displaying errors 4-23
 - storing time codes 6-21
 - using 6-21
 - Subframes
 - in varispeed 7-3
 - Supervisor Disabled, 9 Memories 5-2
 - Surge Protection 3-2
 - Sync Points
 - access reference register 4-8, 6-18
 - access source register 4-8, 6-18
 - calculating offsets 4-17
 - clearing 4-22
 - if no value in register 4-10
 - in varispeed 7-3
 - setting 4-21
 - Synchronization
 - X-frame 7-2
 - Synchronizing
 - mixed codes 4-20
 - with PLAY Key 6-7
 - with varispeed 7-2
 - SYNCP Key 4-8, 6-18
 - SYS Key 6-11
 - System
 - configurations 2-1
 - options menu 4-28, 7-15
 - overview 1-4

Index

- System (continued)
 - reference menu, SSU 7-15
 - speed/code menu 7-16
- System Configurations 1-11
- System Error xxxx 5-5
- System Errors 4-22
- System Ref 7-16
- System Spd/Code 7-16
- System Speed 4-3
- System Supervisor 3-3, 5-2
 - and KCU 7-10
 - and the GEN Key 6-14
 - described 1-7
 - error messages 5-5
 - initializing 7-11
 - interface diagram 3-10
 - using with KCU 7-11
- T**
- TC Key 6-18
- TCG Group Mode 7-16
- TCG Key 7-15
- TCG Still Mode 7-16
- TCG Tran Mode 7-17
- Testing
 - communications 3-9
 - Lynx-2 to KCU 3-9
 - on power up 4-2
 - self-test messages 5-4
- Time Code
 - accessing registers 4-6, 6-16
 - capture 4-4
 - capturing a value 4-4, 6-21
 - changing reference 4-27
 - converting 7-2
 - cue to 6-5
 - display 4-7, 6-3
 - generator 6-11, 6-14
 - generator, in SSU 7-15
 - locate 6-5
 - MIDI 7-17
 - offsets when differing 4-19
 - recalling values 6-20
 - retrieve 4-5
 - selecting track record enable 6-18
 - storing values 6-20, 6-24
- Time Code Generator Options Menu 7-16
- TIME Key 4-7, 6-17
- Time Register 4-7, 6-17
- Track Is Safe or Not Available 5-8
- Track Select 6-12
- Tracks Options Menu 4-28
- TRAN Key 4-29, 6-12, 7-8
- Tran X Capstan Error 5-5
- Tran X Play Speed 30 ips 5-5, 5-7
- Tran X Play Speed 7.5 ips 5-5, 5-7
- Tran X Tape Out 5-5
- Tran X Transport in Local 5-6
- Trans X Play Speed 15 ips 5-7
- Transport
 - LED displays when enabled 6-23
 - non-zero offset 6-23
 - record disable 6-23
 - record enable 6-23
 - selected in shuttle mode 6-23
 - selecting for rehearse or record 6-23
- Transport Clearing Now* 5-7
- Transport Control Keys 6-5
- Transport Controls
 - ALL STOP Key 6-5
 - CUE Key 6-5
 - fast forward 6-7
 - jog/shuttle wheel 6-9
 - LOC Key 6-5
 - PLAY Key 6-7
 - REC Key 6-8
 - REH Key 6-8
 - REPLAY Key 6-6
 - rewind 6-7
 - ROLLBACK Key 6-6
 - STOP Key 6-7
- Trim
 - offset 4-18
 - offsets 6-9
 - subframe information 6-21
- TRKS Key 4-28, 6-12
- V**
- VARI LED 7-9
- Variable Speed 4-3
- Varispeed
 - calculator 7-8
 - configuration requirements 7-2
 - displaying status 7-9
 - error messages 7-10
 - offsets 7-4
 - operations 7-1
 - percentage option 7-16
 - pivot point 7-3
 - sync point registers 7-5
 - synchronization 2-4, 7-2
- Varispeed and Gearbox Operations 2-4
- Version Numbers 4-23, 7-10
- VID Key 6-17
- Video
 - external 4-3
 - selecting the Assemble function 6-19
 - sync signal 4-3
 - track record enable 6-17
- Voltage
 - AC mains 3-4
 - changing main setting 3-4, 3-5
 - fuse specification 3-6
- VSO 4-3

W

Warning
 displaying 5-6
 no active transports enabled 5-8
 open end 5-8
Wild 6-2

X

X-Frame Rate 7-2
X-Frame Status 7-9
X-Frame Synchronization 7-2

