

## Symbols

! AMP 14-49  
+ SHAPE MOD OSC 14-48

## Numerics

2PARAM SHAPER 14-44  
2POLE ALPASS 14-16  
2POLE LOWPASS 14-8  
32 track sequencing 12-46  
4POLE HIPASS W/SEP 14-13  
4POLE LOPASS W/SEP 14-10

## A

A clock 25-9  
Aborting a Macro Load 13-54  
Aborting a Multiple File Load 13-21  
Aborting a sample recording 15-6  
Absolute Pitch Wheel 25-7  
Added waveforms 14-38  
Adding layers 6-33  
Adjust  
    Coarse 6-7  
    Fine 6-8  
Adjusting effects mix 9-2  
Adjusting sample volumes 15-36  
Aftertouch 11-2  
AIFF files 13-66  
AIFF-C files 13-66  
Akai 15-31  
Algorithm (ALG) page 6-9  
Algorithm basics 6-5  
Algorithm output 6-5  
Algorithm programming 14-1  
Algorithm wiring 6-5  
All Controllers Off 10-5  
All Notes Off 10-5  
Allpass filters 14-15  
ALPASS 14-15  
Alpha Wheel 2-4, 3-4  
Alphabetic entry 3-4, 5-3  
Alphanumeric pad 3-4  
Alternative attack 6-15  
AMP

Adjust 6-17  
Key tracking 6-18  
Pad 6-18  
Sources 1 and 2 6-18  
Velocity tracking 6-18  
Amp control 14-31  
AMP MOD 14-49  
AMP MOD OSC 14-48  
AMP U AMP L 14-32  
Amplitude envelope 25-11  
    Attack segment 6-25  
    Decay segment 6-26  
    Loop type 6-26  
    Natural 6-24  
    Number of loops 6-26  
    Release segment 6-26  
    User 6-24  
Amplitude envelope (AMPENV) page 6-24  
Append soft button 13-19  
Are you sure? dialog  
    suppressing with Confirm on Master page 11-3  
ARRANGE Page  
    Song Mode 12-46  
Arrangement Feature  
    Edit Song Common parameters used with 12-26  
ASCII characters 5-3  
ASR page 6-30  
ASR1, ASR2 25-11  
ASRs  
    Attack 6-31  
    Delay 6-31  
    Mode 6-31  
    Release 6-31  
    Trigger 6-31  
Assign sample 15-35  
Assigning samples to keymaps 15-36  
Attack portamento 6-23  
Attack segment 6-25  
Attack state 25-12  
Attack time for ASRs 6-31  
Attack velocity 11-2, 25-10  
Audio cables 2-2  
Audio Configurations 18-1  
Audio output 6-18  
Audio output groups and MIDI channels 18-4  
Auditioning Objects in RAM 13-25  
Auditioning Samples from a Disk File 13-17

## B

- B clock 25-9
- Backup 13-61
- Balance (MIDI 08) 25-4
- Balance and Amp (BAL AMP) 14-33
- Balance control 25-8
- BAND2 14-20
- BANDPASS FILTER 14-18
- Bandpass filters 14-18
- Bank Select
  - MIDI Receive page 10-8
- Bank Status Indicator 13-18
- Basic editing 5-1
- Basic MIDI channel 10-5
- Bass tone control 14-27
- Battery Installation 2-2
- Battery replacement 2-2, 28-1
- Beat Volume Adjust 15-29
- Bipolar attack velocity 25-10
- Bipolar control sources 16-1
- Bipolar key number 25-10
- Bipolar keystart 14-4
- Bipolar Mod Wheel 25-7
- Bipolar mono pressure 25-6
- Bipolar polyphonic pressure 25-10
- Boldface italic type 1-3
- BOOT.MAC 13-64
- Bottom line of display 3-2
- Bounce
  - Song Mode TRACK Page 12-35
- Breath (MIDI 02) 25-4
- Building a Drum Program 19-9
- Building a keymap 15-37
- Bypass effects 5-6, 20-4

## C

- Cable 15-7
- Cables and Input Jacks 15-1
- Cancel
  - soft button 13-10
- Cancel soft button 13-19
- CD-ROM 13-1
- CHAN/BANK buttons 3-3, 5-6
- Change
  - Song Mode TRACK Page 12-39
- Changing intonation key 11-3
- Changing song playback programs 12-49

- Channel count 25-8
- Channel state 25-6
- Channels on and off 10-9
- Chaotic LFOs (FUNs) 16-13
- Characters 5-3
- Choose File Name Function 13-37
- Cleaning your K2500 28-1
- Clear 15-20
- Clicking during portamento 6-23
- Clock
  - Song mode 12-21
- Coarse adjust 6-7
- Common DSP control parameters 6-6
- COMMON Page
  - Song Mode 12-25
- COMMON page 6-22
- Compare 5-6, 20-4
- Confirmations 11-3
- Connecting MIDI 2-2
- Connecting SCSI devices 13-2
- Contemporary ROM D-1
- Control input pages 14-2
- Control inputs 6-5
- Control messages
  - Balance (MIDI 08) 25-4
  - Breath 25-4
  - Data (MIDI 06) 25-4
  - Data decrement (MIDI 97) 25-6
  - Data increment (MIDI 96) 25-6
  - Effects depth (MIDI 91) 25-6
  - Expression (MIDI 11) 25-5
  - Foot (MIDI 04) 25-4
  - Freeze pedal (MIDI 69) 25-5
  - Legato switch (MIDI 75) 25-5
  - Mod Wheel (MIDI 01) 25-4
  - Mono pressure 25-4
  - Pan (MIDI 10) 25-4
  - Panic (MIDI 123) 25-6
  - Portamento switch (MIDI 65) 25-5
  - Portamento time (MIDI 05) 25-4
  - Soft pedal (MIDI 67) 25-5
  - Sostenuto (MIDI 66) 25-5
  - Sustain (MIDI 64) 25-5
  - Volume (MIDI 07) 25-4
- Control mode
  - setup 7-3
- Control parameters 2-6
- Control source lists 25-2
- Control sources 25-1
  - A clock 25-9
  - Absolute Pitch Wheel 25-7
  - Amplitude envelope 25-11
  - ASR1, ASR2 25-11

- Attack state 25-12
- Attack velocity 25-10
- B clock 25-9
- Balance control 25-8
- Bipolar attack velocity 25-10
- Bipolar key number 25-10
- Bipolar Mod Wheel 25-7
- Bipolar mono pressure 25-6
- Bipolar polyphonic pressure 25-10
- Channel count 25-8
- Channel state 25-6
- Constants for FUNS 25-13
- Envelopes 2 and 3 25-11
- FUN1, FUN2 25-11
- FUN3, FUN4 25-11
- GAttVel 25-12, 25-13
- GKeyNum 25-12
- Global ASR2 25-7
- Global FUN2 25-7
- Global FUN4 25-8
- Global LFO2 25-7
- Global LFOphase 25-7
- Global phase 1 and 2 25-9
- Inverse attack velocity 25-10
- Key number 25-10
- Key state 25-9
- LFO1 25-11
- LFO1 phase 25-11
- LFO2 25-11
- Loop state 25-12
- Mono pressure 25-6
- Negative A clock 25-9
- Negative B clock 25-9
- Note state 25-9
- ON 25-12
- ON 25-12
- Pan control 25-8
- Pitch Wheel 25-7
- Polyphonic pressure 25-10
- Random variants 1 and 2 25-11
- Release state 25-12
- Release velocity 25-10
- Sample playback rate 25-12
- Sync state 25-9
- Unipolar vs Bipolar 16-1
- Velocity triggers 1 and 2 25-10
- Volume control 25-8
- Control sources—Overview 16-1
- Controlling envelopes 6-27
- Controlling LFO rate 6-30
- Copy
  - disk mode 13-61
  - on Object Utilities page 11-8

- Song Mode TRACK Page 12-34
- Copying layers 6-33
- Creating a Macro 13-41
- Creating Directories 13-11
- Creating new layers 6-33
- Crescendo/Decrescendo (Crescendo) 15-24
- Crossfade 6-19, 14-34
  - Orientation 6-19
- Crossfade and Volume Adjust Curves 15-30
- Crossfade Loop (XfadeLoop) 15-30
- Cursor buttons 3-2

## D

- Data (MIDI 06) 25-4
- Data decrement (MIDI 97) 25-6
- Data entry 3-4
- Data increment (MIDI 96) 25-6
- DC offset 14-44, 14-46, 14-47, 14-48, 14-50
- Decay segment 6-26
- Delayed vibrato 19-1
- Delaying ASRs 6-31
- Delete 15-21
  - on Object Utilities page 11-9
  - Song Mode TRACK Page 12-36
- Deleting Banks in a Startup File 13-64
- Deleting Files and Directories 13-61
- Deleting layers 6-34
- Deleting objects 5-4, 11-4
- Deleting programs 6-33
- Dependent objects
  - saving 13-26
- Dependents
  - loading 13-17
- Descriptions of control sources 25-3
- Diagnostics 28-2
- Dialogs
  - Save 5-2
- Digital Outputs
  - using 15-8
- Diode equations (FUNs) 16-14
- Directories 13-4
  - creating 13-11
  - deleting 13-61
- Directory Selection Dialog 13-12
- DISK 5-6
- DISK button 5-6
- Disk Drive Information 13-5
- Disk format requirements 13-1
- Disk Function soft buttons 13-5

- Disk Mode 13-1
- Disk mode 4-4
- Disk Mode Functions 13-13
- Disk Utilities 13-55
- Display 3-1
  - Bottom line 3-2
  - Top line 3-2
- Display contrast 2-3, 11-3
- Distortion (DIST) 14-40
- Double button presses 3-5
- Double notch filter 14-20
- DOUBLE NOTCH W/SEP 14-20
- Double shaper 14-44
- Double-output algorithm 6-5
- Double-output algorithms 6-20
- Drum channel 11-1
- Drum Loop
  - example of recording 12-3
- Drum Program 19-9
- Drum programs 11-1
- Drum trigger 15-4
- DSP control inputs 6-5
- DSP control parameters 6-6, 6-9, 14-2, 14-3
- DSP Functions 15-18
- DSP functions 14-5
  - inputs and outputs 6-5
- Dump
  - on Object Utilities page 11-10
- Dump program 6-33
- Dumping samples via SMDI 29-7
- Duplicating layers 6-33
- Dynamic voice allocation 11-4

## E

- EDIT button 3-3, 5-6
- Edit compare 5-6, 20-4
- Edit Song
  - ARRANGE Page 12-46
  - COMMON Page 12-25
  - EVENT Page 12-28
  - STEP Page 12-43
  - TRACK Page 12-31
- Edit Song Pages 12-25
- Editing 5-1
- Editing Macros 13-50
- Editing Samples 15-8
- Effect changes when entering Effects mode 9-3
- EFFECT page 6-21
- Effect preset 6-21

- Effect Selection During Recording and Playback 12-49
- EffectChan
  - in Song mode 12-26
- Effects
  - selecting 9-3
  - Wet/Dry mix 6-21
- EFFECTS button 5-6
- Effects bypass 5-6, 20-4
- Effects configurations 9-6, 22-1
- Effects configurations and parameters 9-7
- Effects Controller Numbers 22-2
- Effects depth (MIDI 91) 25-6
- Effects Editor 9-5
- Effects in setups 7-3
- Effects mix 9-2
- Effects Mix in setups 7-3
- Effects mode 4-3, 9-1
  - Selecting effects 9-2
  - Soft buttons 9-1
- Effects mode page 9-1
- Effects mode parameters 9-2
- Effects return 18-3
- Electrical grounding 2-2
- Enable layer 6-12
- Enable MIDI channels 10-9
- Envelope control
  - Adjust 6-28
  - Key tracking 6-28
  - Source and depth 6-28
  - Velocity tracking 6-28
- Envelope control page 6-27
- Envelopes 19-4
- Envelopes 2 and 3 6-27, 25-11
- EPS 15-32
- EQ
  - Bass tone control 14-27
  - Mid-range parametric 14-26
  - Parametric 14-22
  - Steep bass tone control 14-29
  - Treble tone control 14-28
- Equalization 14-22, 14-30
- Erase
  - Song Mode TRACK Page 12-34
- Evaluation of FUNs 16-16
- EVENT Page
  - Song Mode 12-28
- Everything
  - loading objects as 13-20
- Everything files 13-23
- EXIT button 3-4
- Exporting data 13-65
- Expression (MIDI 11) 25-5
- Extended program changes 10-11

Extended sample loop 15-12  
Extensions  
    used by or accepted by the K2500 13-7  
Extra mono dry output 11-3

## F

F1-F3 pages 6-17  
F4 AMP page 6-17  
Farm A-1  
File Backup 13-61  
File Copy 13-63  
File Formats  
    supported by K2500 13-65  
File Index 13-8  
File List Dialog 13-6  
Files  
    deleting 13-61  
    Everything 13-23  
    Loading 5-5, 13-13  
    Master 13-23  
    moving between directories 13-59  
    renaming 13-60  
    Saving 5-5  
    saving 13-22  
    Split 13-23  
Fill Mode 13-18  
Fill soft button 13-19  
Filters 14-5  
    Allpass 14-15  
    Bandpass 14-18  
    Double notch 14-20  
    Highpass 14-12  
    Lowpass 14-7  
    Notch 14-17  
    Twin peaks bandpass 14-21  
Filters—A review 14-6  
Find Files 13-56  
Finding objects 3-6  
Fine adjust 6-8  
Fine Hz 6-17  
Floppy disk drive maintenance 28-1  
Floppy disks 13-1  
Floppy disks, formatting 13-2  
Foot (MIDI 04) 25-4  
Format 15-8  
Formatting floppy disks 13-2  
Formatting SCSI devices 13-4  
Four-pole highpass filter 14-13  
Four-pole lowpass filter 14-10

Free Utility 13-58  
Freeze pedal 6-13  
Freeze pedal (MIDI 69) 25-5  
Front panel MIDI 3-7  
Front panel navigation 3-1  
Front panel reference 20-1  
FUN diagram 16-3  
FUN equations 16-3  
FUN page 6-31  
FUN1, FUN2 25-11  
FUN3, FUN4 25-11  
Function soft buttons 6-32  
Function Soft Buttons in the Sample Editor 15-9  
FUNS  
    For sample and hold 19-6  
FUNs  
    Chaotic LFOs 16-13  
    Diode equations 16-14  
    Evaluation sequence 16-16  
    Sawtooth LFOs 16-13  
    Warp equations 16-10  
FUNs equation list 16-4, 16-15  
FX bypass 5-6, 20-4  
FX channel 9-4  
FX mode 9-3

## G

GAIN 14-34  
Gain 15-3  
Gated lowpass filter 14-12  
GAttVel control source 25-12, 25-13  
General synthesis concepts 14-1  
GKeyNum control source 25-12  
Glitches  
    with guitar or wind controller 11-5  
Global ASR2 25-7  
Global effects 22-1  
Global FUN2 25-7  
Global FUN4 25-8  
Global LFO phase 25-7  
Global LFO2 25-7  
Global phase 1 and 2 25-9  
Global preset effect 9-5  
Global random variant 1 and 2 25-9  
Globals 6-24  
Glossary entries 1-3  
Grab  
    Song Mode TRACK Page 12-41  
Ground hum 28-3

Grounding 2-2  
Guitar/Wind Controller Mode 11-5

## H

Hard reset 11-5  
Hard sync functions 14-50  
    SYNC M and SYNC S 14-50  
Hardware audio switching 18-3  
Headphones 27-2  
High frequency stimulator 14-39  
High key 6-11  
High velocity parameter 6-11  
Highpass filters 14-12  
HIPAS2 14-13  
HIPASS 14-12  
Hold through attack 6-13  
Hold until decay 6-13

## I

Ignore release 6-13  
Impact  
    ENVCTL page 6-29  
Importing data 13-65  
Importing layers 6-33  
Input 15-2  
Input Quantize 12-20  
Insert 15-23  
    Song Mode TRACK Page 12-35  
    with Macros 13-53  
Insert cables 18-3  
Insert Zero 15-22  
Installation 2-2  
Intonation key 11-3  
Intonation Table Editor 17-1  
Intonation tables 11-2, 24-3  
Introduction to editing 5-1  
Intuitive data entry 3-6  
Inverse attack velocity 25-10  
Invert 15-22

## J

Jump to page 5-6, 20-4

## K

K2000  
    SysEx compatibility 30-1  
K2000 Compatibility Disks B-1  
K2500 Features 1-1, 32-1  
K2500 Overview 1-1  
K2500 Program Farm A-1  
K2500 rear panel 2-2  
Key number 25-10  
Key numbers 24-1  
Key range 15-35  
Key state 25-9  
Key tracking 6-8, 6-14, 6-18, 6-28  
Keyboard  
    using to trigger sampler 15-5  
Keymap 15-37  
    Key tracking 6-14  
    Stereo 6-15  
    Transpose 6-14  
    Velocity tracking 6-14  
Keymap Editor 15-33, 19-9  
    Assign sample 15-35  
    New range 15-35  
Keymap Editor Parameters 15-35  
KEYMAP page 6-14  
Keymap parameter 6-14  
Keymaps 6-2  
Keystart  
    bipolar 14-4  
    unipolar 14-4  
Keytrack start (KStart) 14-3  
KRZ files  
    saving and loading a macro table in 13-54  
Kurzweil program changes 10-13

## L

Large disk files 13-23  
Layer  
    Delete 6-34  
    Duplicate 6-33  
    Hold through attack 6-13  
    Hold until decay 6-13  
    Ignore release 6-13  
    Import 6-33  
    new 6-33  
    Opaque 6-13  
    Set range 6-32

- Layer delay
  - Maximum 6-12
  - Minimum 6-12
- Layer delay control 6-12
- Layer enable 6-12
- Layer enable sense 6-12
- LAYER page 6-10
- Layers
  - moving between in multi-layer programs 3-6
  - Muting 5-6
- LCD 3-1, 11-3
- Legato play 6-23
- Legato switch (MIDI 75) 25-5
- LF SAW 14-37
- LF SIN 14-37
- LF SQR 14-37
- LFO page 6-29
- LFO shapes 23-1
- LFO1 25-11
- LFO1 phase 25-11
- LFO2 25-11
- LFO2 phase 25-11
- LFOs 6-29
  - Maximum rate 6-29
  - Minimum rate 6-29
  - Phase 6-30
  - Rate control 6-30
  - Shape 6-30
- Library 13-5
- Library Disk 13-47
- Line cord 2-2
- List Utility 13-57
- Load Function Dialog 13-18
- Loading a Macro File 13-43
- Loading Dependents of Selected Objects 13-17
- Loading files 5-5, 13-13
- Loading Individual Objects 13-13
- Loading Objects from Floppy Disk Files 13-18
- Loading Selected Entries from a Macro File 13-49
- Loading Songs From Disk 12-50
- Local control 10-2
- Local Keyboard Channel 2-4, 10-4
  - with Song Mode 12-1
- Lock parameters 10-10
- LOOP 15-15
- Loop state 25-12
- Looping amplitude envelopes 6-26
- LOPAS2 14-9
- LOPASS 14-7
- Low frequency waveforms
  - Coarse adjust 14-37
  - Sawtooth 14-37
  - Sine 14-37

- Square 14-37
- Low key 6-11
- Low velocity parameter 6-11
- Lowpass filter with clipping 14-46
- Lowpass filters 19-4
- LP2RES 14-10
- LPCLIP 14-46
- LPGATE 14-12

## M

- Macro Insert 13-53
- Macro Load
  - aborting 13-54
- Macro On Indicator 13-5
- Macros 13-38
  - editing 13-50
- Main Control Source list 25-6
- Maintenance and Prevention 28-1
- Mark pages 5-6, 20-4
- MASTER button 5-6
- Master files 13-23
- Master mode 4-4
- Master mode page 11-1
- Master mode—Soft buttons 11-4
- Master panning 11-2
- Master Transpose 11-1
- Maximum layer delay 6-12
- Maximum LFO rate 6-29
- Memory bank ID allotments 21-10
- Memory banks 5-5
- Memory display 11-4
- Memory Limits 12-50
- Memory management 27-1
- Merge soft button 13-19
- Microtonal tunings 11-2
- MIDI
  - All Notes Off 10-5
  - Audio output gain 10-10
  - Audio output groups 18-4
  - Audio output pair 10-9
  - Basic channel 10-5
  - Channel enable 10-9
  - Key and note numbers 24-1
  - LED 3-3
  - Pan 10-9
  - Parameter locks 10-10
  - Program change formats 10-10
  - Program changes 10-13
  - Receive mode 10-5

- Reset channels 10-18
  - Sample dumps 29-3
  - Sending from front panel 3-7
  - Song recording 12-50
  - Transmit parameters 10-1
  - Volume 10-9
  - MIDI button 5-6
  - MIDI channel 10-2
  - MIDI channel parameters 10-8
  - MIDI connections 2-2
  - MIDI control 10-2
  - MIDI control parameters 2-6
  - MIDI Control Source list 25-3
  - MIDI controls 10-4
  - MIDI Implementation Chart 32-4
  - MIDI loop 10-2
  - MIDI mode 4-4
    - Soft buttons 10-18
  - MIDI pitch bend 10-3
  - MIDI program changes 10-3, 10-16
  - MIDI Receive page 10-8
    - Power Mode 10-8
  - MIDI Receive parameters 10-5
  - MIDI sample dump standard
    - Aborting 29-6
    - Loading 29-4
    - New samples 29-5
    - Troubleshooting 29-6
  - MIDI Type 0 Files 13-66
  - MIDIScope 11-4
  - Mid-range parametric EQ 14-26
  - Minimum layer delay 6-12
  - Minimum LFO rate 6-29
  - Mirror Image Drum Map C-11
  - MISC Page
    - Song Mode 12-18
  - Miscellaneous (MISC) 15-11
  - Mix 15-23
  - Mix Beat 15-27
  - MIX outputs 18-1
  - MIX Page
    - Song Mode 12-23
  - Mixers 14-34
  - Mixers with non-linear inputs 14-49
    - !AMP 14-49
    - AMP MOD 14-49
    - x AMP 14-49
    - x GAIN 14-49
  - Mixing outboard effects with the K2500's 18-3
  - Mod Wheel (MIDI 01) 25-4
  - Mode 15-4
  - Mode buttons 3-1
  - Mode buttons—Program and Setup Editors 20-3
  - Mode Selection 3-1
  - Mode selection 4-1
  - Modes 4-1
    - Using 4-3
  - Monitor (Mon) 15-5
  - Mono pressure 25-6
  - Mono sound systems 2-2
  - Monophonic programs 6-22
  - Move
    - on Object Utilities page 11-7
  - Moving Files Between Directories 13-59
  - MS-DOS File System Compatibility 13-65
  - Multi-disk files 13-23
  - Multiple Object Selector
    - entering selection criteria in 13-34
    - soft buttons 13-33
  - Multiple Object Selector Page 13-32
  - Multiple Selection of Files to Load 13-21
  - Multi-velocity keymaps 15-36
  - Music workstation ideas 27-2, 30-1
  - Mute
    - Layers 5-6, 20-3
    - Setup zones 5-6, 20-3
  - Muting tracks 12-24
- ## N
- Name
    - on Object Utilities page 11-9
  - Name Table 13-27
    - not loading 13-31
  - Naming objects 5-2
  - Natural amplitude envelope 6-24
  - Navigation 3-1
  - Negative A clock 25-9
  - Negative B clock 25-9
  - Nested editors 4-2
  - New layer 6-33
  - Noise generator 6-16
  - Noise prevention and reduction 28-2
  - Non-linear functions 14-38
    - 2PARAM SHAPER 14-44
    - DIST 14-40
    - HIFREQ STIMULATOR 14-39
    - LPCLIP 14-46
    - PWM 14-46
    - SHAPE2 14-44
    - SHAPER 14-42
    - WRAP 14-45
  - Normalize 15-19

- Notch filters 14-17
- NOTCH2 14-18
- Note numbers 24-1
- Note numbers, percussion keymaps 24-1
- Note State 20 25-9
- Note triggering 6-12
- Numeric entry 3-4

## O

- Object type and ID 5-2
- Object Utilities 11-6
  - accessing from the editor 11-10
- Objects 5-1
  - auditioning 13-25
  - Deleting 5-4, 11-4
  - loading individually 13-13
  - Naming 5-2
  - Numbering in memory banks 21-10
  - RAM 5-2, 5-4
  - RAM, viewing 27-1
  - Renaming 5-3
  - ROM 5-2, 5-4
  - Saving 5-2
    - saving individually 13-24
    - soft button on Utility page 11-4
  - SysEx values 30-6
- Objects, storing 21-10
- Octave buttons don't work 6-3
- OK
  - soft button 13-10
- One-pole allpass filter 14-15
- One-pole highpass filter 14-12
- One-pole lowpass filter 14-7
- Opaque layer 6-13
- Open
  - soft button 13-9
- Orchestral ROM C-1
- Orchestral ROM Effects C-1
- Orchestral ROM Keymaps C-3
- Orchestral ROM Programs C-2
- Orchestral ROM Programs with Controller Assignments C-5
- Orchestral ROM Samples C-4
- Orchestral ROM Setups C-10
- Output
  - Assignment and control 6-18
  - Double-wire algorithms 6-20
  - Gain 6-19
  - Pan mode 6-19

- Panning 6-19
- Selecting output group 6-19
- Stereo keymaps 6-20
- Output gain 10-10
- OUTPUT page 6-18
- Output pair 10-9
- Overview 1-1
- Overwrt soft button 13-19
- OvFill soft button 13-19

## P

- Pad 6-18, 14-3
- Page Buttons 15-11
- Pages 3-2
  - Algorithm (ALG) 6-9
  - Amplitude envelope (AMPENV) 6-24
  - ASR 6-30
  - COMMON 6-22
  - EFFECT 6-21
  - Effects mode 9-1
  - Envelope control 6-27
  - Envelopes 2 and 3 6-27
  - F1-F3 6-17
  - F4 AMP 6-17
  - FUN 6-31
  - Jumping to 5-6
  - KEYMAP 6-14
  - LAYER 6-10
  - LFO 6-29
  - Marked 5-6, 20-4
  - Master mode 11-1
  - MIDI CHANLS 10-8
  - MIDI RECV 10-5
  - MIDI XMIT 10-1
  - OUTPUT 6-18
  - PITCH 6-7, 6-16
  - Previous 5-6
  - VTRIG 6-32
- Pan 6-19
  - Master 11-2
  - MIDI 10-9
- Pan (MIDI 10) 25-4
- Pan control 25-8
- Pan lock 10-10
- Pan Position
  - MIX page 12-23
- Panel play feature 3-7
- Panic (MIDI 123) 25-6
- Panic button 2-5, 10-18

- PANNER 14-32, 19-7
- PARA BASS 14-27
- PARA MID 14-26
- PARA TREBLE 14-28
- Parameter locks 10-10
- Parametric EQ 14-22
- Parent
  - soft button 13-9
- Parentheses around program name 6-2, 11-2
- Patch Through
  - with Song mode 12-1
- Path 13-4
- PCH 10-12
- Performance controls 2-6
- Phase of LFO waveforms 6-30
- Pitch
  - Fine Hz 6-17
- Pitch bend
  - MIDI 10-3
- Pitch bend in setups 7-4
- Pitch bend mode 6-11
- Pitch bend range 6-22
- Pitch control 14-31
- PITCH page 6-7, 6-16
- Pitch Shift 15-26
- Pitch Wheel 25-7
- Pitch, amplitude, panner 14-31
- Playback mode 6-16
- Playing notes from front panel 3-7
- Playing songs 12-49
- Plus/Minus buttons 3-4
- Polyphonic pressure 25-10
- Polyphony 6-2, 11-4
- Portamento 6-23
- Portamento click 6-23
- Portamento rate 6-23
- Portamento switch (MIDI 65) 25-5
- Portamento time (MIDI 05) 25-4
- Power cable 2-2
- Power Mode
  - MIDI Receive page 10-8
- Power problems 28-4
- Preset effect 6-21
- Preset effects in setups 7-3
- Pressure Map Editor 17-6
- Pressure maps 10-3, 10-6
- Pressure sensitivity 11-2
- Previous page 5-6, 20-4
- PROGRAM button 5-6
- Program change formats 10-10
- Program change type 10-2, 10-6
- Program changes
  - Extended 10-11

- Kurzweil 10-13
- MIDI 10-3, 10-13, 10-16
- Quick Access banks 10-13, 10-16
- Quick Access mode 8-1
- Program changes in Setup mode 7-4
- Program Editor
  - Pages 6-9
  - Soft buttons 6-4
- Program Farm A-1
- Program list 21-1
- Program lock 10-10
- Program mode 2-4, 4-3, 6-1, 6-2
  - Soft buttons 6-3
- Program mode page 6-2
- Program RAM vs. Sample RAM 27-1
- Program structure 6-2
- Program, monophonic 6-22
- Programming algorithms 14-1
- Programming FUNs 16-2
- Programs 2-4
  - Deleting 6-33
  - SysEx dumps 6-33
- Programs not playing 11-2
- Punctuation 5-3
- PWM 14-46

## Q

- QA 0-127 10-17
- Quantize
  - Input 12-20
  - Song Mode TRACK Page 12-36
- Quick Access bank program changes 10-13, 10-16
- QUICK ACCESS button 5-6
- Quick Access Editor 8-1
- Quick Access mode 2-5, 4-3, 8-1
- Quick Mute
  - Song Mode MIX Page 12-24
- Quick Mute Track Bank Indicator
  - MIX page 12-24
- Quick Scrolling to Subdirectories 13-10

## R

- RAM
  - Sample vs. Program 27-1
- RAM objects 5-2, 5-4
- RAM objects, viewing 27-1

- Random variants 1 and 2 25-11
- Rate 15-3
- Rate control of LFOs 6-30
- Reading Samples 15-31
- Realtime effects 6-21
- Rear panel 2-2
- Recording Multi-timbral Sequences via MIDI 12-50
- Recording songs via MIDI 12-50
- Reference Quantize
  - Song Mode TRACK Page 12-37
- Region/Criteria window
  - Song mode 12-31
- Release segment 6-26
- Release state 25-12
- Release time for ASRs 6-31
- Release velocity 25-10
- Releasing ASRs 6-31
- Relink-by-Name 13-28
- Remap
  - Song Mode TRACK Page 12-41
- Removing layers 6-34
- Renaming Files 13-60
- Renaming objects 5-3
- Repeating ASRs 6-31
- Resample 15-25
- Reset
  - hard 11-5
- Reset MIDI channels 10-18
- Reverse 15-21
- Reverse samples 6-16
- Roland 15-32
- ROM objects 5-2, 5-4
- Root
  - soft button 13-9

## S

- Safety precautions 2-2
- Sample 15-5
  - Playback loops 6-16
  - Playback mode 6-16
  - SMDI transfers 29-7
  - Stereo 6-15
- Sample and Hold 19-6
- Sample and hold 19-6
- Sample and Hold with FUNs 19-6
- Sample dumps 29-3
- Sample Editor 15-37
- Sample ID offset 29-6
- Sample playback rate 25-12

- Sample RAM vs. Program RAM 27-1
- Sample recording
  - aborting 15-6
- Sampler
  - triggering from keyboard 15-5
- Samples
  - Adjusting volume 15-36
  - Assigning to keymaps 15-36
  - triggering from audio signals 15-4
  - Tuning 15-36
- Sampling Analog Signals 15-2
- Sampling Digital Signals 15-7
- Save dialog 5-2
- Saving and naming 5-2
- Saving Dependent Objects 13-26
- Saving Files 13-22
- Saving files 5-5
- Saving Individual Objects 13-24
- Saving Master and Everything Files 13-23
- Saving objects 5-2
  - RAM 5-2, 5-4
  - ROM 5-2, 5-4
- Saving RAM objects 5-2, 5-4
- Saving ROM objects 5-2, 5-4
- SAW 14-36
- Sawtooth LFOs (FUNs) 16-13
- SCSI 1-1
- SCSI connections 2-3
- SCSI devices 13-1
  - Formatting 13-4
  - Termination 13-3
- SCSI Guidelines 29-1
- SCSI ID 10-6
- SCSI IDs 13-4
- SCSI Musical Data Interchange 1-1
- Search function 3-6
- Select soft button 13-8
- Selecting a Song for Playback 12-49
- Selecting effects 9-3
- Selecting modes 4-1
- Selecting parameters 3-1
- Selection by Dependents 13-36
- Selection by Type/Range 13-35
- Separate outputs 18-2
- Sequencer
  - tutorial 12-1
- Setting layer ranges 6-32
- Setting Up For Sampling 15-1
- SETUP button 5-6
- Setup control parameters 2-6
- Setup Editor 7-2
  - Soft buttons 7-4
- Setup Editor Parameters 7-2

- Setup mode 4-3, 7-1
- Setups 2-4
  - Control mode 7-3
  - Effect 7-3
  - Effects mix 7-3
  - list of 21-9
  - Low and high key 7-3
  - MIDI channel 7-3
  - Muting zones 5-6
  - Pitch bend 7-4
  - Program assignment 7-3
  - Program change 7-4
  - Selecting via MIDI 10-13, 10-16
  - Transpose 7-3
  - Transposing 7-1
- SHAPE MOD OSC 14-48
- SHAPE2 14-44
- SHAPER 14-42, 19-7
- Shift
  - Song Mode TRACK Page 12-38
- Signal-to-noise ratio 2-3
- SIMMs 1-1
  - for Sample RAM 27-2
- SINE 14-36
- Single-output algorithm 6-5
- Sleep soft button 13-6
- SMDI 1-1
- SMDI sample transfers 29-7
- Soft buttons 3-2, 6-3, 6-4
  - Disk Mode page 13-5
  - Effects mode 9-1
  - Keymap Editor 15-34
  - Master mode 11-4
  - MIDI mode 10-18
  - Setup Editor 7-4
  - Special functions 6-32
- Soft Buttons on the DSP Page 15-17
- Soft pedal (MIDI 67) 25-5
- Soft Through
  - with Song Mode 12-1
- Soloing current track 12-25
- SONG button 5-6
- Song Mode 12-1
  - MISC Page 12-18
  - MIX Page 12-23
- Song mode 4-4
- Song playback 12-49
- Songs
  - Loading 12-50
  - Memory limits 12-50
  - Recording via MIDI 12-50
  - Synchronizing 12-49
- Sostenuto (MIDI 66) 25-5

- Sostenuto pedal 6-13
- Source 1 6-8
- Source 2 6-8
- Special button functions 5-6
- Specifications
  - K2500 32-1
- Split files 13-23
- SQUARE 14-36
- Src parameter
  - Sample page 15-3
- Startup 2-1, 13-5
- Startup File
  - creating 13-63
  - deleting banks in 13-64
- Stealer
  - soft button on Utility page 11-4
- Steep bass tone control 14-29
- STEP Page
  - Song Mode 12-43
- Stereo insert cables 11-3, 18-3
- Stereo keymaps 6-15, 6-20
- Stereo samples 6-15
- Storing Objects in Memory Banks 21-10
- Sustain (MIDI 64) 25-5
- Sustain not working 10-5
- Sustain pedal 6-13
- Sustaining ASRs 6-31
- SW+DST 14-47
- SW+SHP 14-48
- SYNC M and SYNC S 14-50
- Sync state 25-9
- Synchronizing songs 12-21, 12-49
- Synthesis—General concepts 14-1
- System Exclusive 10-3
  - Button press values 30-7
  - Common format 30-1
  - compatibility with K2000 30-1
  - Data formats 30-1
  - Master parameters 30-7
  - Messages 30-2
  - Object types 30-6
- System exclusive 6-33
- System Exclusive dumps 11-10
- System Exclusive ID 10-6
- System Exclusive implementation 30-1

## T

- Terminating SCSI devices 13-3
- Thin

- Song Mode TRACK Page 12-40
- Threshold (Thresh) 15-4
- Timbre shift 6-15
- Time 15-5
- Time Warp 15-26
- Top line of display 3-2
- Total size of all files 13-10
- Track mute 12-24
- TRACK Page
  - Song Mode 12-31
- Track Status Indicators
  - MIX page 12-24
- Transpose
  - Master 11-1
  - MIDI 10-2
  - Setups 7-3
  - Song Mode TRACK Page 12-39
- Transposing setups 7-1
- Treble tone control 14-28
- Triggering ASRs 6-31
- Triggering notes on startup 6-12
- Triggering sampler from keyboard 15-5
- Triggering samples from audio signals 15-4
- TRIM 15-13
- Troubleshooting 28-4
- Truncate 15-19
- Tuning samples 15-36
- Tuning to other instruments 11-1
- Twin peaks bandpass filter 14-21
- Two-parameter shaper 14-44
- Two-pole allpass filter 14-16
- Two-pole bandpass filter 14-18
- Two-pole bandpass filter, fixed width 14-20
- Two-pole highpass filter 14-13
- Two-pole lowpass filter 14-8
- Two-pole notch filter 14-17
- Two-pole notch filter, fixed width 14-18

## U

- Unipolar control sources 16-1
- Unipolar keystart 14-4
- Upper and lower amp 14-32
- User amplitude envelope 6-24
- Using the Digital Outputs 15-8
- Using the MIX Outputs 18-1
- Using the modes 4-3
- Using the Velocity Map Editor 17-3
- Using your K2500 in a SCSI System 13-4
- Utilities 11-4

## V

- V Parameter
  - on Setup Editor page 7-4
- V parameter
  - MIDI Receive page 10-4
- Variable Architecture Synthesis 1-1, 1-2
- VAST 1-1, 1-2
- Velocity crossover 15-36
- Velocity Map Editor 17-3
- Velocity maps 10-3, 10-6
- Velocity sensitivity 11-2
- Velocity stabs 19-1
- Velocity tracking 6-8, 6-14, 6-18, 6-28
- Velocity triggers 6-32
- Velocity triggers 1 and 2 25-10
- Ventilation 2-2
- View soft button 2-4
- Viewing RAM objects 27-1
- Viewing Selected Objects 13-25
- Voice allocation 11-4
- Voice channels 6-2
- Voltage levels 2-2
- Volume
  - MIDI 10-9
- Volume (MIDI 07) 25-4
- Volume Adjust 15-20
- Volume control 25-8
- Volume Knob 2-6
- Volume Level
  - MIX page 12-23
- Volume lock 10-10
- Volume Ramp 15-24
- VTRIG page 6-32

## W

- Warp equations 16-10
- WAVE Files 13-66
- Waveform wraparound 14-45
- Waveforms 14-35
  - Sawtooth 14-36
  - Sine 14-36
  - Square 14-36
- Waveforms for LFOs 6-30
- Waveforms with non-linear functions 14-47
  - + SHAPE MOD OSC 14-48
  - AMP MOD OSC 14-48
  - SHAPE MOD OSC 14-48

SW+DIST 14-47  
SW+SHP 14-48  
x SHAPE MOD OSC 14-48  
Wet/Dry mix 6-21  
Wet/dry mix 9-2  
Wind controller  
    controlling K2500 with 11-5  
WRAP 14-45  
Wrong sample being dumped 29-6

## **X**

x AMP 14-49  
x GAIN 14-49  
x SHAPE MOD OSC 14-48  
XFADE 14-34  
XMIT page 10-1