

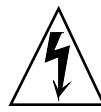
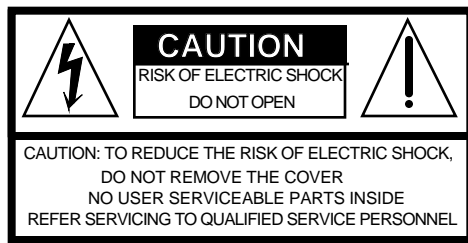
K2500

Reference Guide

KURZWEIL
Music Systems

©1996 All rights reserved. Kurzweil is a product line of Young Chang Co.; V. A. S. T. is a registered trademark, and Kurzweil, K2500, and K2000 are trademarks of Young Chang Co. All other products and brand names are trademarks or registered trademarks of their respective companies. Product features and specifications are subject to change without notice.

Part Number: 910252 Rev. F



The lightning flash with the arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

IMPORTANT SAFETY & INSTALLATION INSTRUCTIONS

INSTRUCTIONS PERTAINING TO THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

WARNING - When using electric products, basic precautions should always be followed, including the following:

1. Read all of the Safety and Installation Instructions and Explanation of Graphic Symbols before using the product.
2. This product must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This product is equipped with a power supply cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet which is properly installed and grounded in accordance with all local codes and ordinances.

DANGER - Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Do not modify the plug provided with the the product - if it will not fit the outlet, have a proper outlet installed by a qualified electrician. Do not use an adaptor which defeats the function of the equipment-grounding conductor. If you are in doubt as to whether the product is properly grounded, check with a qualified serviceman or electrician.

3. **WARNING** - This product is equipped with an AC input voltage selector. The voltage selector has been factory set for the mains supply voltage in the country where this unit was sold. Changing the voltage selector may require the use of a different power supply cord or attachment plug, or both. To reduce the risk of fire or electric shock, refer servicing to qualified maintenance personnel.

4. Do not use this product near water - for example, near a bathtub, washbowl, kitchen sink, in a wet basement, or near a swimming pool, or the like.

5. This product should only be used with a stand or cart that is recommended by the manufacturer.

6. This product, either alone or in combination with an amplifier and speakers or headphones, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.

7. The product should be located so that its location or position does not interfere with its proper ventilation.

8. The product should be located away from heat sources such as radiators, heat registers, or other products that produce heat.

9. The product should be connected to a power supply only of the type described in the operating instructions or as marked on the product.

10. This product may be equipped with a polarized line plug (one blade wider than the other). This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician to replace your obsolete outlet. Do not defeat the safety purpose of the plug.

11. The power supply cord of the product should be unplugged from the outlet when left unused for a long period of time. When unplugging the power supply cord, do not pull on the cord, but grasp it by the plug.

12. Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

13. The product should be serviced by qualified service personnel when:

- A. The power supply cord or the plug has been damaged; or
- B. Objects have fallen, or liquid has been spilled into the product; or
- C. The product has been exposed to rain; or
- D. The product does not appear to be operating normally or exhibits a marked change in performance; or
- E. The product has been dropped, or the enclosure damaged.

14. Do not attempt to to service the product beyond that described in the user maintenance instructions. All other servicing should be referred to qualified service personnel.

15. **WARNING** - Do not place objects on the product's power supply cord, or place the product in a position where anyone could trip over, walk on, or roll anything over cords of any type. Do not allow the product to rest on or be installed over cords of any type. Improper installations of this type create the possibility of a fire hazard and/or personal injury.

RADIO AND TELEVISION INTERFERENCE

Warning: Changes or modifications to this instrument not expressly approved by Young Chang could void your authority to operate the instrument.

Important: When connecting this product to accessories and/or other equipment use only high quality shielded cables.

Note: This instrument has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This instrument generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this instrument does cause harmful interference to radio or television reception, which can be determined by turning the instrument off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the instrument and the receiver.
- Connect the instrument into an outlet on a circuit other than the one to which the receiver is connected.
- If necessary consult your dealer or an experienced radio/television technician for additional suggestions.

NOTICE

This apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

AVIS

Le present appareil numerique n'emet pas de bruits radioelectriques depassant les limites applicables aux appareils numeriques de la class B prescrites dans le Reglement sur le brouillage radioelectrique edicte par le ministere des Communications du Canada.

SAVE THESE INSTRUCTIONS

Table of Contents

Young Chang Distributors	iv
Front Panel	1-1
Front Panel Quick Reference	1-1
Alphanumeric Pad	1-3
Special Keyboard Functions	1-4
Special Button Functions	1-6
Special Button Functions: Double Button Presses	1-7
Special Button Functions: Double Button Presses	1-8
Programs, Setups, and Keymaps	2-1
K2500 Program List	2-1
Setup List	2-8
Version 2 Setups with Controller Assignments	2-9
Special Purpose Setups	2-9
Storing Objects in the Memory Banks	2-13
K2500 ROM Keymaps	2-14
Effects	3-1
List of Factory Preset Global Effects and Their Configurations	3-1
Effects Controller Numbers	3-2
LFOs	4-1
LFO Shapes	4-1
Note Numbers and Intonation Tables	5-1
K2500 Note Numbers and MIDI Note Numbers	5-1
Note Numbers for Percussion Keymaps	5-1
5-Octave Percussion Keymaps (C2 - C7)	5-1
2-Octave Percussion Keymaps (C3 - C5)	5-2
List and Description of Intonation Tables	5-3
Control Sources	6-1
Descriptions of Control sources	6-4
MIDI Control Source List	6-4
Main Control Source List	6-7
Constant Control Sources	6-14
Keyboard Shortcuts for Control Sources	6-15
DSP Algorithms	7-1
Memory Upgrades and Other Options	8-1
Program RAM vs. Sample RAM	8-1
Viewing RAM Objects	8-1
Choosing SIMMs for Sample RAM	8-2
Using Headphones with the K2500	8-2

Maintenance and Troubleshooting	9-1
Preventive Maintenance	9-1
Battery selection and Replacement	9-1
User-callable Diagnostics	9-2
Maximizing Music and Minimizing Noise	9-2
Power Problems and Solutions	9-4
Troubleshooting	9-4
MIDI, SCSI, and Sample Dumps	10-1
SCSI Guidelines	10-1
Disk Size Restrictions	10-1
K2500 and Macintosh Computers	10-3
Accessing a K2500 Internal Drive from the Mac	10-4
The MIDI Sample Dump Standard	10-5
SMDI Sample Transfers	10-8
System Exclusive Protocol	11-1
K2500 System Exclusive Implementation	11-1
Button Press Equivalence Table	11-7
Glossary	12-1
Specifications	13-1
K2500 FEATURES	13-1
Environmental Specifications	13-3
Physical Specifications	13-3
Electrical Specifications	13-3
MIDI Implementation Chart	13-4
K2500 Program Farm	A-1
Overview of Program Files	A-1
ANACOMPS.K25	A-3
ANALEADS.K25	A-4
ANAPADS.K25	A-5
BASS.K25	A-6
BELLS.K25	A-7
BRASS.K25	A-8
DIGITAL.K25	A-9
DKICKSNR.K25	A-10
DRUMS.K25	A-11
ENSEMBLE.K25	A-12
ETHEREAL.K25	A-13
FXSOUNDS.K25	A-14
GUITARS.K25	A-15
HYBPERC.K25	A-16
HYBRIDS.K25	A-17
ORGANS.K25	A-18
PNOEPNO.K25	A-19
STRINGS.K25	A-20
VOX.K25	A-21

K2000 Compatibility	B-1
K2000 Compatibility Files	B-1
Converting K2000 Files to K2500 Files	B-2
Converting programs from the K2500 to K2000	B-3
Programs using Drum samples	B-3
Effects Programs	B-3
Keymaps	B-4
Additional Considerations	B-4
Stereo Piano ROM	C-1
Monaural Piano Programs	C-1
Stretch Tuning	C-1
Stereo Piano ROM Programs	C-1
Stereo Piano ROM Keymaps	C-2
Stereo Piano ROM Samples	C-2
Stereo Piano ROM Programs with Controller Assignments	C-3
Orchestral ROM	D-1
Orchestral ROM Effects	D-1
Orchestral ROM Programs	D-2
Orchestral ROM Keymaps	D-3
Orchestral ROM Samples	D-4
Orchestral ROM Programs with Controller Assignments	D-5
Version 2 Orchestral ROM Setups with Controller Assignments	D-10
About the Control Setup	D-12
Mirror Image Drum Map	D-13
Getting Started	D-13
Sostenuto Pedal	D-13
Sticking	D-14
Contemporary ROM	E-1
Contemporary ROM Programs	E-2
Contemporary ROM Keymaps	E-3
Contemporary ROM Samples	E-4
Contemporary ROM Effects	E-5
Contemporary ROM Programs with Controller Assignments	E-6
Contemporary ROM Setups	E-10
About the Control Setup	E-12

Young Chang Distributors

Contact the nearest Young Chang office listed below to locate your local Young Chang/ Kurzweil representative.

Young Chang America, Inc.

13336 Alondra Blvd.
Cerritos, CA 90703-2245
Tel: (310) 926-3200
Fax: (310) 404-0748

Young Chang Co.

Kang Nam P.O.Box 998
Seoul, Korea
Tel: 011-82-2-3451-3500
Fax: 011-82-2-3451-3599

Young Chang Akki Europe GmbH

Industriering 45
D-41751 Viersen
Germany
Tel: 011-49-2162-4491
Fax: 011-49-2162-41744

Young Chang Canada Corp.

395 Cochrane Drive
Markham, Ontario L3R 9R5
Tel: (905) 513-6240
Fax: (905) 513-9445