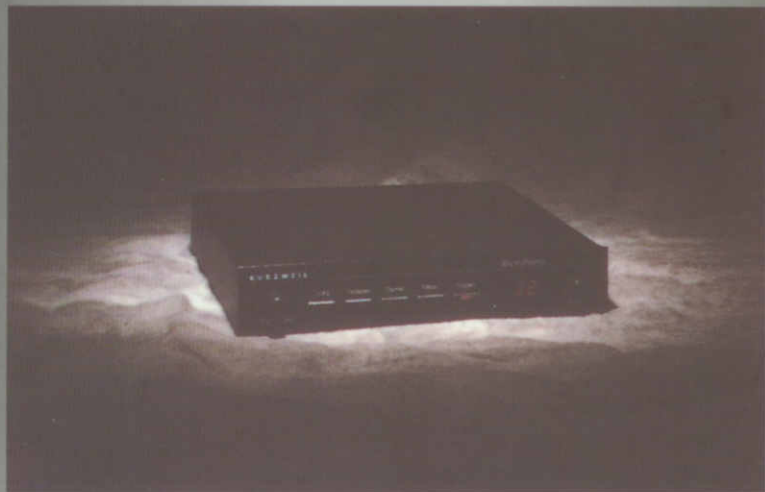


INTRODUCTION TO THE
KURZWEIL™

Music Systems

MicroPiano™



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

IMPORTANT SAFETY AND INSTALLATION INSTRUCTIONS

WARNING - When using electronic products, basic precautions should always be followed. Read all of the Safety and Installation Instructions before using the product.

Do not use this product near water, such as near a bathtub, sink, in a wet basement, near a swimming pool, or the like.

This product, 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.

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

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

This product is 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.

The product should be serviced by qualified service personnel when:

- A. The plug has been damaged; or
- B. Objects have fallen upon, 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.

Do not attempt to service the product. All servicing should be referred to qualified service personnel.

WARNING - Do not place the power cord, or the product in a position where anyone could trip over, walk on, or roll equipment over them. Do not allow the product to rest on or be installed over cords of any type. Do not place the power module where it cannot receive cooling air, such as under a rug. Improper installations of this type may 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 different from 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 présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la class B prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

SAVE THESE INSTRUCTIONS

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 respective companies.

Product features and specifications are subject to change without notice.

INTRODUCTION

Welcome to the Kurzweil *MicroPiano*.™ You now have a simple and effective way to enhance your music with Kurzweil's superior piano sound technology. As with our other Kurzweil products, we think you'll find the sounds to be very realistic. This manual will serve to walk you through hooking up your *MicroPiano* safely and using it to its greatest capacity. **Save this manual as a reference.**

Now is a good time to fill out and return the postage-paid registration card which comes with your *MicroPiano*. If we know who you are, we will be able to keep you informed of the latest developments and new products from Kurzweil. Thanks.

OVERVIEW

The *MicroPiano* is a 32-voice MIDI sound module. Designed in a single space, half-rack unit, the *MicroPiano* is very easy to use. Basically, you select a sound by pressing the **Program** button, then turning the **Data** knob at the far right of the module. You can also select the desired EFFECTS, CHANNEL, TRANSPOSE, and TUNING modes by pressing one of their respective buttons on the front panel, and you select the values in each mode with the **Data** knob. The value you select for each mode is retained until you change it, or turn the power off.

The default setting for the Program mode is "1" (Classical Piano). The default setting for EFFECTS is **Pr9** ("Pr9"). "Pr9" designates that each program selected in Program mode has its own default effect associated with it. See the PROGRAM and EFFECTS sections for more details about how programs and effects interact.

The default setting for the CHANNEL mode is "1." The default settings for TRANSPOSE and TUNING modes are "0" when you turn on the *MicroPiano*.

Each of these modes is discussed in greater detail in the section entitled, "**PLAYING YOUR MICROPIANO.**"

SETTING UP AND CARING FOR YOUR *MicroPiano*

See the "Important Safety and Installation Instructions" on the inside front cover for important information as you set up and turn on your *MicroPiano*.

Never take apart your *MicroPiano*. There are no user-serviceable parts inside.

Clean your *MicroPiano* with a soft, dry cloth. Do not use aerosol sprays on or near the *MicroPiano*.

Mounting Your *MicroPiano* to a Half-Rack Adapter

The *MicroPiano* is a single-space, half-rack module designed to fit securely into any standard 19" equipment rack. For safety, do not turn on the power source for other devices in your MIDI system until the *MicroPiano* is connected.

If you desire to mount the *MicroPiano* in your current equipment rack, Kurzweil recommends you purchase a standard half-rack adapter from your local dealer.

Enclosed with the *MicroPiano* are four screws and four small adhesive-backed rubber feet for mounting the unit to any half-rack adapter. Attach the rubber feet as shown in the diagram on the next page. The feet are required to be attached to the *MicroPiano*, whether you mount it in a half-rack adapter or sit it on a table.

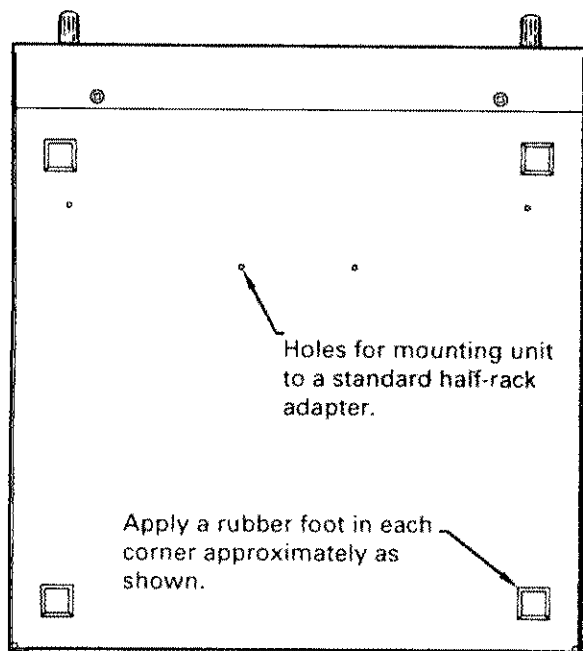
To mount the *MicroPiano* to a half-rack adapter, you must use the screws supplied. The four holes in the bottom of the *MicroPiano* are positioned such that they should line up with at least two mounting holes in most standard adapters.

See the illustration on the next page for more mounting information.



Be sure to USE THE SCREWS THAT COME WITH THE UNIT.

They are 3/8" in length and intended for use in conjunction with the rubber feet. If these screws are misplaced, do not substitute with screws that are longer than 3/8" in length. If the screws are longer than that, they will hit electronic components within the *MicroPiano* and very likely damage it.



MicroPiano Mounting Diagram

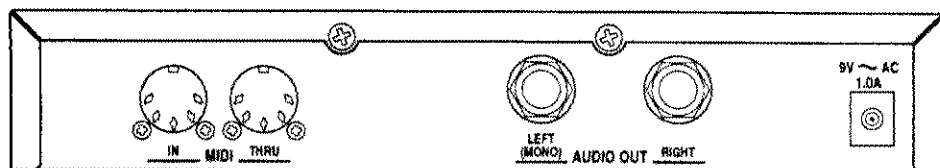
Be sure to USE THE SCREWS THAT COME WITH THE UNIT. They are 3/8" in length and intended for use in conjunction with the rubber feet. If these screws are misplaced, *do not substitute with screws that are longer than 3/8" in length.* If the screws are longer than that, they will hit electronic components within the *MicroPiano* and very likely damage it.

Connecting Your *MicroPiano*

Turn the **Volume** knob on the *MicroPiano* counter-clockwise until it clicks before plugging in the *MicroPiano* or other MIDI equipment, to ensure the unit is OFF.

Better yet, make sure that your audio system is OFF before hooking anything up.

Look at the back of the *MicroPiano*. It looks like this:



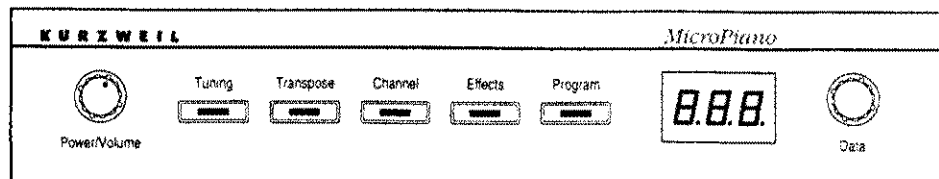
MicroPiano Rear Panel

The MIDI IN and MIDI THRU ports work as follows: Plug the MIDI OUT from your keyboard into the MIDI IN port on the *MicroPiano*, using any standard MIDI cable. If necessary, you can connect the MIDI THRU on the *MicroPiano* to the MIDI IN port of another device in your MIDI system — effects processors or sound modules, etc.

Audio Out Left (MONO) and Right connections allow you to hook up the *MicroPiano* to your amplifier or mixer. To get the full signal in mono, plug a cable into the *left* jack only.

PLAYING YOUR *MicroPiano*

The front of the *MicroPiano* looks like this:



MicroPiano Front Panel

Turning On Your *MicroPiano*

The knob furthest to the left controls the *MicroPiano*'s ON/OFF function and its volume. Be sure this **Volume** knob is turned counter-clockwise whenever you turn on your audio system.

After connecting the power, audio, and MIDI cables, turn the *MicroPiano* on by rotating the **Power/Volume** knob slightly clockwise until it clicks. Within one second, all of the front panel LEDs and all of the display segments will light briefly. The LEDs then turn off, and the display changes to show the software version number. Finally, the **Program** LED will turn on and the display will show a "1," indicating that the *MicroPiano* is in PROGRAM mode and is operating normally.

Be sure your controller keyboard is transmitting on MIDI Channel 1.

You may now begin to send MIDI signals to the *MicroPiano* and adjust the **Volume** knob and your audio system to a comfortable listening level.

If the *MicroPiano* fails to operate as just described, refer to the "IN CASE OF DIFFICULTY" section on page 14.

MIDI Indicator

When you are sending MIDI signals on the same channel on which the *MicroPiano* is set to receive, the leftmost decimal point on the LED display will flash, indicating that you are receiving MIDI messages.

The DEMO Sequence

To hear some of the capabilities of the *MicroPiano*, try listening to the DEMO sequence. This can be done by selecting CHANNEL mode and turning the **Data** knob past 16. The display will look like this:



and the DEMO sequence will play.

Program

Press the **Program** button then dial up the desired sound with the **Data** knob. Pick one and try it out! The default setting for the PROGRAM mode is "1," which corresponds to Classical Piano. You can select from the following sounds:

***MicroPiano* Programs**

Program Number	Program Name
1	Classical Piano, solo tuning (beat-tuned)
2	Stage Piano, solo tuning (beat-tuned)
3	Classical Piano, ensemble tuning (440-tuned)
4	Stage Piano, ensemble tuning (440-tuned)
5	Bright Piano
6	Sustain Piano
7	Stage Piano & Strings
8	Piano & String Pad
9	Tack Piano
10	Bright Electric Grand
11	Tight Electric Grand
12	Warm Electric Grand
13	Digital Electric Grand
14	Classic Electric Piano
15	Digital Electric Piano
16	Dyno-Electric Piano
17	Hard Dyno-Electric Piano
18	Stereo Hard Electric Piano
19	Stereo Tremolo Digital Electric Piano
20	Digital Electric Piano & String Pad
21	Rock Organ 1
22	Rock Organ 2
23	Percussion Organ
24	Ballad Organ 1
25	Ballad Organ 2
26	Organ & Piano
27	Fast Strings 1
28	Fast Strings 2
29	Touch Strings
30	Stereo Slow Strings
31	Stereo Slow String Pad
32	Slow Digital Pad

Effects

Press the **Effects** button then turn the **Data** knob to access the following effects:

MicroPiano Effects

MIDI #83 Value	Name
0	No Effect
1	Room
2	Bright Room
3	Stage
4	Bright Stage
5	Hall
6	Bright Hall
7	Large Hall
8	Large Bright Hall
9	Chorus
10	Room + Chorus
11	Bright Room + Chorus
12	Stage + Chorus
13	Bright Stage + Chorus
14	Hall + Chorus
15	Bright Hall + Chorus
16	Deep Space
17-127	Prg (default effect for program)

You may select different effects with the **Data** knob, if you wish to change the pre-selected effect. Select "0" for No Effect.

Any effect you choose other than "Prg" will remain active when you change programs. Choose "Prg" to return to a program's default effect.

You can also select an effect by sending the *MicroPiano* a MIDI controller 83 message with one of the values shown in the above chart. Note that any value greater than 16 selects "Prg" mode.

The effects provided with the *MicroPiano* consist of several types of reverb with and without chorus, as well as the Deep Space effect—a unique combination of reverb and echo. Try them out.



Effect Wet/Dry Mix

The default setting for the EFFECTS mode when the *MicroPiano* is turned on is "Prg." Remember, each program has its own pre-determined effect, so changing a program when in the PROGRAM mode will change the effect. See pages 6 and 7 or the pull-out charts on pages 17 and 18, for a listing of the *MicroPiano*'s programs and effects.

The Wet/Dry Mix of reverb can be adjusted from your master controller by sending MIDI controller 91 messages. Values 0-127 change the mix from dry to wet.

The Wet/Dry Mix of chorus can be adjusted from your master controller by sending MIDI controller 93 messages. Values 0-127 change the mix from dry to wet.

When you change the EFFECTS mode (either through the front panel or through MIDI), the Wet/Dry Mix is reset to the new effect's default. Similarly, when you change the PROGRAM mode while the EFFECTS mode is set to "Prg," the Wet/Dry Mix is reset to the new effect's default.

Channel

Press the **Channel** button then turn the **Data** knob to select the MIDI channel to which your *MicroPiano* will respond (1 - 16).

The default setting for the MIDI Channel is "1" when the *MicroPiano* is turned on. The *MicroPiano* responds to one channel at a time. *Note:* $\sharp\flat$ will also appear in this display when you turn the data knob past 16. See page 5 for an explanation of the DEMO sequence.

Transpose

The *MicroPiano* can be transposed up or down within a range of 24 semitones (± 2 octaves) by using the **Transpose** button and then the **Data** knob. Press the **Transpose** button and then move the **Data** knob to the left or the right to control the transposition.

The default setting for TRANSPOSE is "0" when the *MicroPiano* is turned on. *Note:* If the *MicroPiano*'s transpositions are extreme, certain notes on an 88-key controller (the highest and lowest ones) may be out of range for the *MicroPiano* and will not sound.

Tuning

The **Tuning** button allows you to tune the unit plus or minus 50 cents (one quarter step) in 1 cent increments. This allows you to easily tune with other instruments in your ensemble.

Press the **Tuning** button, then turn the **Data** knob to select the desired tuning. Turning the **Data** knob to the left tunes the *MicroPiano* flat, while turning the **Data** knob to the right tunes the *MicroPiano* sharp — within a range of ± 50 cents.

The default setting for TUNING is "0" when the *MicroPiano* is turned on. *Note:* The first two piano programs are "beat" tuned, like an acoustic piano. Since the higher harmonics of a stretched string tend to be sharper than those of the real harmonic series, beat tuning ensures that the piano remains in tune with itself harmonically. For this reason, beat tuning is sometimes referred to as "solo" tuning. The second two programs offer straight tuning, where the fundamental of each note is tuned to A440. This allows for better mixing with other acoustic and electronic instruments. This type of tuning, therefore, is sometimes known as "ensemble tuning."

CONFIGURING YOUR *MicroPiano*

- To enter CONFIGURATION mode, press and hold the **Tuning** button while you turn on your *MicroPiano*. You will note that the **Tuning** LED is blinking. You are now in CONFIGURATION mode.
- To exit CONFIGURATION mode, press the **Transpose** button.

Link Mode Configuration

The *MicroPiano* can be set to respond to certain MIDI note numbers. This is done by pressing the **Channel** button and turning the **Data** knob while in CONFIGURATION mode.

If the LED reads **ALL**, the *MicroPiano* will respond to ALL notes sent to it. If the unit is set to **Even** the unit will only respond to EVEN MIDI note numbers; **Odd** will only respond to ODD notes. By chaining two *MicroPianos* together with MIDI THRU and setting one to ODD and the other to EVN, you can have 64-voice polyphony!

Note: For reference, Middle C on the *MicroPiano* is number 60, and notes go up or down from there.

The default setting for LINK mode is "ALL" when the *MicroPiano* is turned on.

Program Change/Enable

You can also enable or disable whether the *MicroPiano* will respond to MIDI program changes. Press **Program** while in the CONFIGURATION mode, and select either ON or OFF, by turning the **Data** knob.

ON means the *MicroPiano* will allow program (patch) changes, OFF will not allow program changes. This is useful when there is more than one MIDI device sharing the same MIDI channel and you want to send program changes to other devices, without affecting the *MicroPiano*, or if your sequencer is sending program changes that you wish to ignore with the *MicroPiano*.

The default setting for PROGRAM CHANGE/ENABLE is "ON" when the *MicroPiano* is turned on.

- After you have configured the *MicroPiano*, press the **Transpose** button to return to normal operation.

Velocity Response Curves

Many programs in the *MicroPiano* are designed for a full range of velocity sensitivity. The touch response and MIDI velocity transmission vary with each controller keyboard. With this feature, you can adjust how the *MicroPiano* responds to different velocity curves sent from particular controllers.

To select a curve in CONFIGURATION mode, press the **Effects** button, then turn the **Data** knob to choose a curve. You will notice the **Effects** LED blinking. Several curves are offered for the *MicroPiano*. Curve 1 is the default setting. The best way to choose the right curve for your controller is to play repeated notes from soft to loud, and listen to the timbre and volume differences as you select different curves.

The *MicroPiano* lets you choose from the following velocity response curves:

MicroPiano Velocity Response Curves

No.	Name	Description
1	<no mapping>	for controllers that send the full range of velocities on a linear curve
2	Easier	for "light-velocity" keyboards such as the Yamaha® SY77
3	Harder	for slightly "hot velocity" keyboards such as the Roland® JV1000
4	Hardest	for "hot-velocity" keyboards such as the Korg® 01/W

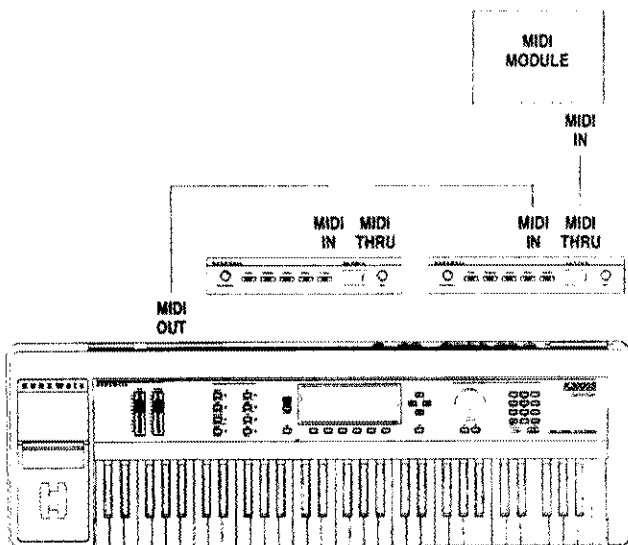
MIDI

The *MicroPiano* uses MIDI (Musical Instrument Digital Interface) to receive input from a keyboard controller and to send messages to other musical instruments. Standard MIDI cables provide the connection between the MIDI ports of one piece of equipment and those of another. To keep things simple, there are only two valid MIDI connections: OUT to IN and THRU to IN. (See the illustration on the next page.)



MIDI IN receives MIDI information from other MIDI equipment.

MIDI THRU duplicates the information received by IN and passes it to other equipment.



A typical MIDI system, utilizing two MicroPianos for 64-note polyphony.

The *MicroPiano* is capable of receiving the following MIDI messages:

- *Note On* Messages with attack velocity — Your sound is touch-sensitive in most *MicroPiano* programs.
- *Note Off* Messages
- *Program Change* Messages — Response to program change messages can be disabled in CONFIGURATION mode.
- *Sustain* Messages (MIDI 64)
- *Sostenuto* Messages (MIDI 66)
- *Soft Pedal* Messages (MIDI 67)
- *Volume* Messages (MIDI 7)
- *Effect Select* Messages (MIDI 83)
- *Modulation* Messages (MIDI 01), in some programs.
- *Effects Depth* (Reverb) Messages (MIDI 91)
- *Effects Depth* (Chorus) Messages (MIDI 93)

MIDI IMPLEMENTATION CHART

Manufacturer:
Young Chang

Date: Nov. 1993

Model: Kurzweil MicroPiano

Sound Module

Function		Transmitted	Recognized	Remarks
Basic Channel	Default	X	1	
	Changed	X	1-16	
Mode	Default	X	X	always in Mode 3
	Messages	X	X	
	Altered	X	X	
Note Number		X	0-127	key range: C0-C8
	True Voice	X	12-108	
Velocity	Note ON	X	O	
	Note OFF	X	X	
After Touch	Keys	X	X	
	Channel	X	X	
Pitch Bender		X	X	
Control Change	MIDI 1	X	O	modulation
	MIDI 7	X	O	volume
	MIDI 64	X	O	sustain pedal
	MIDI 66	X	O	sostenuto pedal
	MIDI 67	X	O	soft pedal
	MIDI 83	X	O	effect select
	MIDI 91	X	O	reverb depth
	MIDI 93	X	O	chorus depth
Program Change		X	O	0-32 ¹
	True #		1-32	
System Exclusive		X	X	
System Common	Song Pos	X	X	
	Song Sel	X	X	
	Tune	X	X	
System Real Time	Clock	X	X	
	Messages	X	X	
Aux Messages				
	Local Control	X	X	
	All Notes Off	X	O	
	Active Sense	X	X	
	Reset	X	X	

Notes

1. for some programs
2. see effects chart for values
3. can be disabled
4. true voice program 1 can be selected by MIDI program change 0 or 1

O = yes
X = no

Mode 1: OMNI ON, POLY Mode 2: OMNI ON, MONO
Mode 3: OMNI OFF, POLY Mode 4: OMNI OFF, MONO

IN CASE OF DIFFICULTY:

Below is a list of the most commonly encountered problems and diagnoses for each. If, after trying a solution the problem persists, please contact your Kurzweil dealer or refer to the listing on the inside back cover.

PROBLEM:

LEDs on the *MicroPiano* will not turn on

***MicroPiano* turns on but LED pattern frozen or flashes constantly**

No sound from audio system



When diagnosing audio problems, set the *MicroPiano* to play its DEMO song.

POSSIBLE REASONS/SOLUTIONS:

- Power module not plugged securely in wall outlet.
- Cord from power module not fully plugged in to *MicroPiano*.
- Input voltage rating of power module does not match your power system.
- Incorrect or defective power module.
- Dead wall outlet, power strip, or extension cord.
- Incorrect or defective power module.
- Input voltage rating of power module does not match your power system.
- Power system voltage abnormally low. Try a different, unused outlet.

Note: When diagnosing audio problems, set the *MicroPiano* to play its DEMO song.

- *MicroPiano* volume control turned down.
- Volume control on audio system or mixer turned down.
- Signal source selection on audio system or mixer is incorrect.
- Audio cables not securely plugged in at both ends.
- Incorrect type of audio cable.

- MIDI cable not securely plugged in at both ends.
- MIDI source not sending data.
- MIDI source sending data on wrong channel (*MicroPiano* default is Channel 1).

DEMO song plays but *MicroPiano* does not respond to MIDI

- *MicroPiano* volume control not turned completely up.
- A received MIDI volume message has specified a low volume.
- Audio cables not securely plugged in at both ends.
- Input to audio system is set for low impedance instead of high impedance.
- Input trim to audio system or mixer is set too low.
- Incorrect power module (a DC output power module will *not* work).

Sound level from *MicroPiano* is too low or is distorted

- The *MicroPiano* is not a General MIDI compatible device.
- Program change numbers not compatible with *MicroPiano* program list.
- Effects setting messages not compatible with *MicroPiano* (see page 18).
- The *MicroPiano* does not respond to Pitchbend messages.

Pre-recorded or "General MIDI" sequences do not play correctly

- Insufficient ventilation.
- Incorrect power module.
- Input voltage rating of power module does not match your power system.

Power module or *MicroPiano* overheats

MicroPiano

PRODUCT SPECIFICATIONS

Audio

Output

Connection: 2 x 1/4" Mono Phone Plug

Impedance: 2K Ohms

Output Level: 3.5 Volts RMS Max
1 Volt RMS Nominal

Dynamic Range: >103 dB "A" Weighted

Electrical

Requirements

Input Voltage: 9 Volts AC

Power

Consumption: 1 Amp

Environment

Operating

Temperature: 5°C to 40°C (40°F to 105°F)

Relative

Humidity: 5% to 95% non-condensing

Storage

Temperature: -20°C to 70°C (-4°F to 158°F)

Relative

Humidity: 5% to 95% non-condensing

Physical

Dimensions:

Weight: 3.5 lbs.

Height: 1.6" 40.2 mm

Width: 8.5" 216.2 mm

Depth: 9.6" 243.0 mm

PULL OUT LIST OF PROGRAMS

Program Number	Program Name
1	Classical Piano, solo tuning (beat-tuned)
2	Stage Piano, solo tuning (beat-tuned)
3	Classical Piano, ensemble tuning (440-tuned)
4	Stage Piano, ensemble tuning (440-tuned)
5	Bright Piano
6	Sustain Piano
7	Stage Piano & Strings
8	Piano & String Pad
9	Tack Piano
10	Bright Electric Grand
11	Tight Electric Grand
12	Warm Electric Grand
13	Digital Electric Grand
14	Classic Electric Piano
15	Digital Electric Piano
16	Dyno-Electric Piano
17	Hard Dyno-Electric Piano
18	Stereo Hard Electric Piano
19	Stereo Tremolo Digital Electric Piano
20	Digital Electric Piano & String Pad
21	Rock Organ 1
22	Rock Organ 2
23	Percussion Organ
24	Ballad Organ 1
25	Ballad Organ 2
26	Organ & Piano
27	Fast Strings 1
28	Fast Strings 2
29	Touch Strings
30	Stereo Slow Strings
31	Stereo Slow String Pad
32	Slow Digital Pad

PULL OUT LIST OF EFFECTS

MIDI #83 Name

Value

0	No Effect
1	Room
2	Bright Room
3	Stage
4	Bright Stage
5	Hall
6	Bright Hall
7	Large Hall
8	Large Bright Hall
9	Chorus
10	Room + Chorus
11	Bright Room + Chorus
12	Stage + Chorus
13	Bright Stage + Chorus
14	Hall + Chorus
15	Bright Hall + Chorus
16	Deep Space
17-127	Prg (default effect for program)