THE KORG
PROFESSIONAL
PERFORMANCE
SERIES
GUITAR SYNTHESIZER

Z3
ZD3

GUITAR SYNTHESIZER DRIVER

Z3 Specifications

• Pitch detection method : 16-bit microprocessor and custom LSI with newly developed pitch extraction algorithm. • Preset sounds : 128 [6 voice]. • Mode A : real time parameter change. • Mode B : programmable mode [128 timbre set patches, 64 program patch play, 6 multi-timbre]. • Effects : 16-bit digital reverb on/off. • Tuner : digital tuner [calibration range : 438HZ-445HZ]. • Front panel guitar input [24-pin], remote input [8-pin DIN], synth output volume, headphones, power switch, 7-segment LED × 3 digit display, panel switches [INC, DEC, TUNER, REVERB ON/ OFF, SENS Hi/Lo, BEND ON/OFF, OCTAVE UP, OCTAVE DOWN, SYNTH OFF, FUNC, STRING SELECT 1-6]. • Rear panel : outputs [L/MONO, R], guitar output, pedal switch jack [1. Synth off, 2. Hold, 3. Program up, 4. Program down], MIDI IN, MIDI OUT, MIDI IN/REMOTE switch, MODE A/ B switch. • Power supply : AC, local voltage. • Power consumption : 24W. • Dimensions [W×D×H] : 482×32×44mm. • Weight : 4.5kg • Supplied accessories : Rack mount adaptor.

ZD3 Specifications

• Controls : synth volume, program up/down. • Connection terminals : standard guitar input jack. • Indicators : string sensitivity LED×1. • Dimensions [W×D×H] : 125×74×31mm. • Weight : 420g [including cable] • Supplied accessories : pickup spacers, pickup cushions, double sided mounting tape, screws, attachment plate×2.

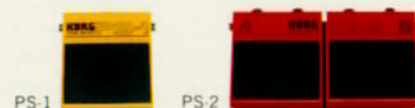## Z3 & ZD3 System Enhancement Options

M1 MUSIC WORKSTATION

Features massive PCM sample memory and advanced integrated synthesis system. Has built-in effects and sequencer. The state of the art in synthesizer performance.

M1R MUSIC WORKSTATION

Built-in multi-mode 8-track sequencer gives you the power of eight synthesizers and all of the M1's incredible performance functions in a rack mount [2U height] sound generation unit.

A3 PERFOMANCE SIGNAL PROCESSOR

Use up to six effects at once. Plug in more effects programs on ROM cards or store your own data on RAM cards. An ideal effects system for guitarists.

FC6 FOOT CONTROLLER

Connects using special cable to enable foot operated control over program change, hold, and other functions. Function control possible with connection of foot pedal or foot switch.

• PS-1, PS-2 PEDAL SWITCHES
Connects to Z3 rear panel for control of timbre set change, hold, etc.

PS-1   PS-2

• KVP-001 VOLUME PEDAL
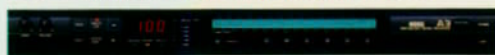Can also control pitch bends if connected to FC6.

• SYNC/MIDI CABLE
1.5m/3m/5m/1m+0.5m

• 1U SOFT CASE LB-60 • 1U HARD CASE HC-1U • 2U HARD CASE HC-2X(for Z3+FC6)/HC-M1R • SOFT CASE SC-6(for FC6)

LB-60   HC-2X   SC-6

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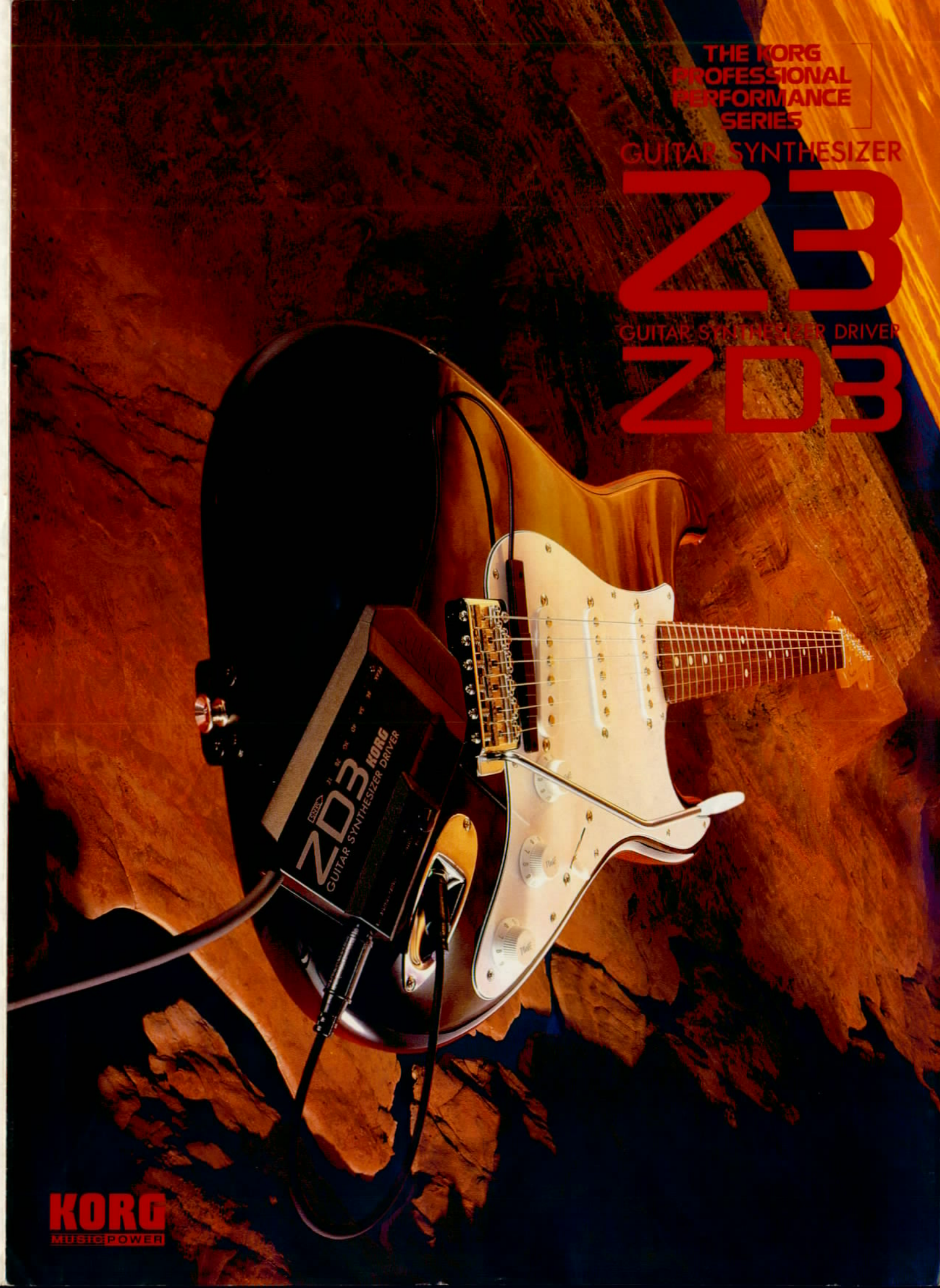
KORG
MUSIC POWER

KORG INC. 15-12, Shimotakaido 1-Chome, Suginami-ku, Tokyo Japan.

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GUITAR SYNTHESIZER
Z3

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ZD3

KORG ZD3 GUITAR SYNTHESIZER DRIVER

STRING SELECT

INC   FUNC   6   5   4   3   2   1

128

DEC   SYNTH OFF   OCTAVE DOWN   OCTAVE UP   BEND ON/OFF   SENS Hi/Lo   REVERB ON/OFF   TUNER

GUITAR INPUT   REMOTE   VOLUME   0····10   PHONES

KORG Z3
GUITAR SYNTHESIZER   POWER

Transform your guitar into a guitar synthesizer.
And unleash the unlimited expressive power at your fingertips.
Your own guitar is the best vehicle for exhibiting your technique. And what better way of quickly and effortlessly upgrading your guitar into a high performance guitar synthesizer than by adding the Z3 and ZD3 system.
Incredible as it may seem, the Z3 with its multitude of sounds and convenient functions fits in a 1U height rack.
The compact ZD3 driver attaches directly and easily to the guitar body. It's the best of both worlds — you can show off your polished playing style while drawing upon a colorful palette of fantastic new sounds.
Of course, your regular guitar output is still there. So you can change between the actual guitar sound and the sounds of the synth. And never again need to switch guitars in the middle of a song.
Blend the guitar and synth sounds, sustain one while playing on top with the other… the possibilities are astonishing.
If you've been looking at guitar synths or if you already use a guitar synth, you owe it to yourself to check out the Korg Z3/ZD3. This is the guitar system you've been waiting for. A system so advanced that you'll have to try it to believe it.

ZD3 Parts and Controls
The drive unit transforms the guitar into a guitar synthesizer. It picks up performance information from each string and transmits it to the Z3. It also provides control over the synth sound, including volume and program change. Installation is easy using double-sided tape or screws.

ZD3 KORG

❶ Synth master volume. ❷ Program up/down switch / timbre change. ❸ Gain adjust: individual string sensitivity. ❹ Gain peak LED: Lights at correct sensitivity setting. ❺ Guitar input: accepts guitar output. ❻ Multi-connector: for 24-pin cable to Z3 front panel. ❼ Mounting plate to ZD3: two kinds to match guitar type. ❽ Divided pickup: 11mm wide; requires at least 11mm space between guitar's own pickup and bridge.

A new level of precision and control—Korg's new pitch conversion algorithm doesn't cramp your style
A guitar synth's pitch detection system is the key to its performance. You want fast, accurate pitch response. But in pickup-type synths the tracking speed is hardly precise; fluctuating with picking style, string, pitch, and other variables.
The Z3/ZD3 guitar synthesizer system responds instantly to each note, regardless of your picking style. Lag is minimized so you really feel that

you are playing the synth instead of waiting for it to catch up.
So what makes Korg's system so much more advanced?

Three big reasons are : [1] Parallel processing with dual microcomputers for pitch extraction and sound generation. [2]16-bit microprocessor and custom LSI chip apply newly developed algorithm to derive each string's precise pitch. [3]Waveform data from divided pickup is handled by high-speed analog-to-digital converter. You'll notice the difference—no more time lag.

You can use your full range of playing styles. Tracking is maintained with slurs, note bending, damping, vibrato, arpeggios, tremolo arm, and other techniques. Your actual guitar articulation is translated into rich synthesizer sounds. When you add the Z3/ZD3 you simply multiply your expressive power.

Let your creativity run wild— with 6-voice 128-sound presets built-in

Piano, organ, strings, trumpet, vibes, and other simulated instrument sounds.Special effects and synthesizer sounds. All together you have a huge variety of high quality timbres to choose from. With 6-voice 128-preset internal sound sources and four digital oscillators per voice, you enjoy realistically high resolution sound quality for everything from delicate metallic percussion to fat analog bass. All these presets are custom designed for the Z3/ZD3 guitar synthesizer system.

Digital reverb is included to add spacious stereo ambience to your sound. Calibration is easily adjusted in 1Hz steps within a reference pitch range of 438Hz to 445Hz.

Get off to a quick start with easy-to-use dual-mode operation

No difficult settings. To use mode A, you just hook up the Z3/ZD3 to your guitar and make your choices for six parameters [pitch bend, sense key, etc.]. These then apply to all six strings so all you have to do is choose from the 128 preset sounds and play your guitar.

Mode B offers four states — play, edit, patch play, and patch edit. This lets you create your own original settings. For example, you can give strings one, two and three a piano sound, while using the lower strings to trigger a bass sound. Patch play is great for live sets. It lets you arrange patches to match your song order. You can also send your set and patch data as a MIDI exclusive message for storage in a MIDI sequencer like the Korg SQD-8.

Dual-mode operation satisfies professional needs without hampering the novice.

A/B MODE Select A-B mode on rear panel before turning on power.

MODE A: Gets you going quickly. Settings affect all strings.

PLAY
1. Sound select: internal presets 1–128
2. Octave up/down: transposes pitch
3. Reverb on/off: for reverb on synth sound
4. Synth on/off: turns synth sound on and off
5. Pitch bend on/off: on for bends ; off for semitone steps
6. Sens hi low: set to low if needed to prevent mistriggering

MODE B: Two kinds of operation.

EDIT	→	PLAY
Set up timbre set patches. Memory holds 128 patches.		Choose a timbre set from among 128 patches.

EDIT	→	PATCH EDIT	→	PATCH PLAY
Set up a timbre set patch. Memory holds 128 patches.		Change order of timbre set patch, etc. Store 8 ordered sets of 8 patches (64 total)		Select a patch order.

* Timbre set patch contains following parameter settings for each of the six strings.

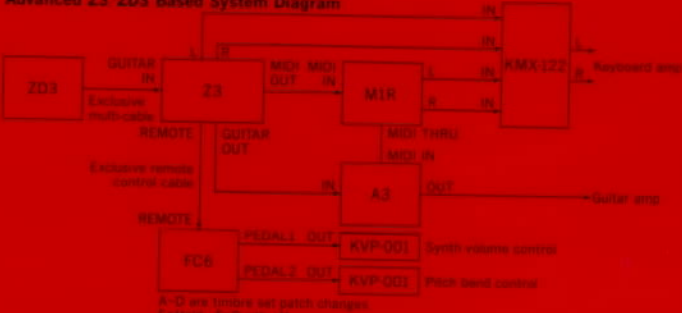| No.	PARAMETER	MIN~MAX	No.	PARAMETER	MIN~MAX
1.	Program change	1~128	6.	Hold	ON/OFF
2.	Bend range	0~12	7.	MIDI channel	0~16
3.	Sensitivity	1~8	8.	Sound number	1~128
4.	Velocity curve	1~8	9.	Output level	0~15
5.	Transpose	-12~+12	10.	Reverb	ON/OFF

Interfacing freedom lets you use any MIDI sound generator

Interfacing between electric guitar and MIDI is another strong point of the Z3/ZD3. You can drive other MIDI sound generators to gain broad creative control. Not only does this give you access to particular sounds beyond the presets, it also lets you choose which external synths will be triggered by which strings.

There are two MIDI output modes : POLY and MONO.

To control sound sources that are not multi-timbral, you can use the POLY mode to send MIDI data from all six strings over a single MIDI channel. For versatile orchestration you can use the MONO mode to assign a different MIDI channel to each string. The Z3/ZD3 lets your guitar interface with an entire network of MIDI devices.

Advanced Z3/ZD3 Based System Diagram

Use your feet for more flexible control

Foot controller and pedal switch options give you remote control capability, especially useful for onstage performance. The exclusive remote cable [RCC-050] hooks up to the FC6 foot controller to allow easy control over individual string parameter settings such as hold and program change. Simply press a foot switch, for instance, to hold the bass notes while playing a melody on top.

Z3 Rear Panel

❶ MIDI IN, OUT : for connection to MIDI sound generators or synths, etc. ❷ REMOTE [FRONT] : switches input between front panel REMOTE and rear panel MIDI IN. [Rear MIDI IN cannot be used if REMOTE is selected.] ❸ MODE switch : Select A or B before turning on power. ❹ Pedal switch : For foot controller or pedal switch connection. Allows foot control of Program up/down, hold, synth off, etc. ❺ Guitar output : provides actual guitar sound signal. ❻ Synth output [L-MONO, R] : provides synth sound, in stereo if digital reverb is on.

you are playing the synth instead of waiting for it to catch up.
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Three big reasons are : [1] Parallel processing with dual microcomputers for pitch extraction and sound generation. [2]16-bit microprocessor and custom LSI chip apply newly developed algorithm to derive each string's precise pitch. [3]Waveform data from divided pickup is handled by high-speed analog-to-digital converter. You'll notice the difference—no more time lag.

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Set up timbre set patches. Memory holds 128 patches.		Choose a timbre set from among 128 patches.

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Set up a timbre set patch. Memory holds 128 patches.		Change order of timbre set patches. Store 8 ordered sets of 8 patches (64 total)		Select a patch order.

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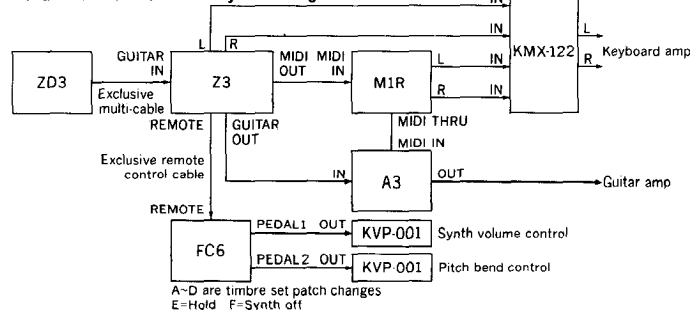| No.	PARAMETER	MIN~MAX	No.	PARAMETER	MIN~MAX
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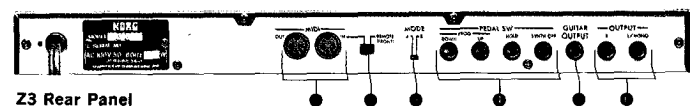There are two MIDI output modes : POLY and MONO.
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Advanced Z3/ZD3 Based System Diagram

A~D are timbre set patch changes
E=Hold F=Synth off

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Your Right to Expressive Freedom.

Now there's a guitar synth that satisfies the real guitarist in you. Korg's new Z3/ZD3 gives you that true guitar feeling while opening up the exciting world of MIDI synthesis. Ultra-fast note tracking, built-in pro-quality preset sounds, easy operation, extensive MIDI functions, and many more outstanding specs —everything is devoted to increasing your performance potential. Discover how your own guitar can take you into new dimensions of sonic synthesis. Start exploring the incredible creative options that are now yours with the Z3/ZD3 from Korg.

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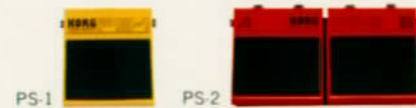
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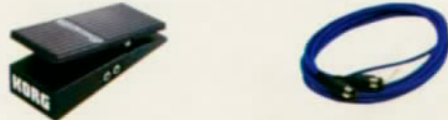
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PS-1   PS-2

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LB-60   HC-2X   SC-6

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STRING SELECT

128

GUITAR INPUT   REMOTE   VOLUME   0   10   PHONES

INC   FUNC   6   5   4   3   2   1

DEC   SYNTH OFF   OCTAVE DOWN   OCTAVE UP   BEND ON/OFF   SENS Hi/Lo   REVERB ON/OFF   TUNER

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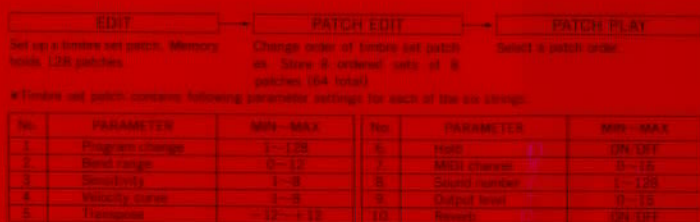
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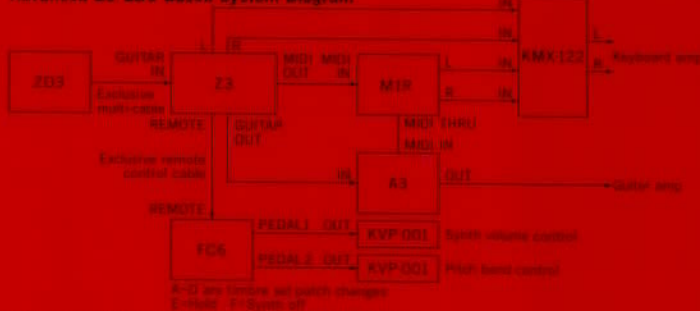| No.	PARAMETER	MIN~MAX	No.	PARAMETER	MIN~MAX
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4	Velocity zone	1~9	9	Output level	0~15
5	Transpose	-12~+12	10	Reverb	ON/OFF

Interfacing freedom lets you use any MIDI sound generator

Interfacing between electric guitar and MIDI is another strong point of the Z3/ZD3. You can drive other MIDI sound generators to gain broad creative control. Not only does this give you access to particular sounds beyond the presets, it also lets you choose which external synths will be triggered by which strings.

There are two MIDI output modes : POLY and MONO.

To control sound sources that are not multi-timbral, you can use the POLY mode to send MIDI data from all six strings over a single MIDI channel. For versatile orchestration you can use the MONO mode to assign a different MIDI channel to each string. The Z3/ZD3 lets your guitar interface with an entire network of MIDI devices.

Advanced Z3/ZD3 Based System Diagram

A~D are timbre set patch changes.
E: Hold F: Synth off

Use your feet for more flexible control

Foot controller and pedal switch options give you remote control capability, especially useful for onstage performance. The exclusive remote cable [RCC-050] hooks up to the FC6 foot controller to allow easy control over individual string parameter settings such as hold and program change. Simply press a foot switch, for instance, to hold the bass notes while playing a melody on top.

Z3 Rear Panel

❶ MIDI IN, OUT : for connection to MIDI sound generators or synths, etc. ❷ REMOTE [FRONT] : switches input between front panel REMOTE and rear panel MIDI IN. [Rear MIDI IN cannot be used if REMOTE is selected.] ❸ MODE switch : Select A or B before turning on power. ❹ Pedal switch : For foot controller or pedal switch connection. Allows foot control of Program up/down, hold, synth off, etc. ❺ Guitar output : provides actual guitar sound signal. ❻ Synth output [L/MONO, R] : provides synth sound, in stereo if digital reverb is on.

you are playing the synth instead of waiting for it to catch up.

So what makes Korg's system so much more advanced?

Three big reasons are : [1] Parallel processing with dual microcomputers for pitch extraction and sound generation. [2]16-bit microprocessor and custom LSI chip apply newly developed algorithm to derive each string's precise pitch. [3]Waveform data from divided pickup is handled by high-speed analog-to-digital converter. You'll notice the difference—no more time lag.

You can use your full range of playing styles. Tracking is maintained with slurs, note bending, damping, vibrato, arpeggios, tremolo arm, and other techniques. Your actual guitar articulation is translated into rich synthesizer sounds. When you add the Z3/ZD3 you simply multiply your expressive power.

Let your creativity run wild— with 6-voice 128-sound presets built-in

Piano, organ, strings, trumpet, vibes, and other simulated instrument sounds.Special effects and synthesizer sounds. All together you have a huge variety of high quality timbres to choose from. With 6-voice 128-preset internal sound sources and four digital oscillators per voice, you enjoy realistically high resolution sound quality for everything from delicate metallic percussion to fat analog bass. All these presets are custom designed for the Z3/ZD3 guitar synthesizer system.

Digital reverb is included to add spacious stereo ambience to your sound. Calibration is easily adjusted in 1Hz steps within a reference pitch range of 438Hz to 445Hz.

Get off to a quick start with easy-to-use dual-mode operation

No difficult settings. To use mode A, you just hook up the Z3/ZD3 to your guitar and make your choices for six parameters [pitch bend, sense key, etc.]. These then apply to all six strings so all you have to do is choose from the 128 preset sounds and play your guitar.

Mode B offers four states— play, edit, patch play, and patch edit. This lets you create your own original settings. For example, you can give strings one, two and three a piano sound, while using the lower strings to trigger a bass sound. Patch play is great for live sets. It lets you arrange patches to match your song order. You can also send your set and patch data as a MIDI exclusive message for storage in a MIDI sequencer like the Korg SQD-8.
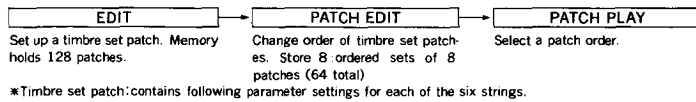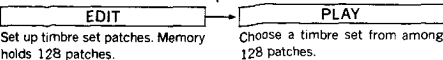
Dual-mode operation satisfies professional needs without hampering the novice.

A/B MODE Select A/B mode on rear panel before turning on power.

MODE A:Gets you going quickly. Settings affect all strings.

PLAY

1. Sound select:internal presets 1-128
2. Octave up/down:transposes pitch
3. Reverb on/off:for reverb on synth sound
4. Synth on/off:turns synth sound on and off
5. Pitch bend on/off:on for bends;off for semitone steps
6. Sens hi/low:set to low if needed to prevent mistriggering.

MODE B:Two kinds of operation.

EDIT	→	PLAY
Set up timbre set patches. Memory holds 128 patches.		Choose a timbre set from among 128 patches.

EDIT	→	PATCH EDIT	→	PATCH PLAY
Set up a timbre set patch. Memory holds 128 patches.		Change order of timbre set patches. Store 8 ordered sets of 8 patches (64 total)		Select a patch order.

*Timbre set patch:contains following parameter settings for each of the six strings.

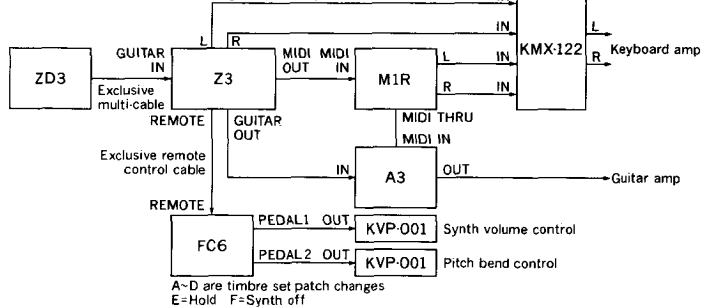| No.	PARAMETER	MIN~MAX	No.	PARAMETER	MIN~MAX
1.	Program change	1~128	6.	Hold	ON/OFF
2.	Bend range	0~12	7.	MIDI channel	0~16
3.	Sensitivity	1~8	8.	Sound number	1~128
4.	Velocity curve	1~8	9.	Output level	0~15
5.	Transpose	-12~+12	10.	Reverb	ON/OFF

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Your Right to Expressive Freedom.

Now there's a guitar synth that satisfies the real
guitarist in you. Korg's new Z3/ZD3 gives you that true
guitar feeling while opening up the exciting world of MIDI synthesis.
Ultra-fast note tracking, built-in pro-quality preset sounds, easy
operation, extensive MIDI functions, and many more outstanding specs
— everything is devoted to increasing your performance potential.
Discover how your own guitar can take you into new dimensions of
sonic synthesis. Start exploring the incredible creative options
that are now yours with the Z3/ZD3 from Korg.