

Roland®

Voice EXPANSION BOARD VE-GS Pro

OWNER'S MANUAL

取扱説明書

Thank you for purchasing the Roland VE-GS Pro Voice Expansion Board.

The VE-GS Pro Voice Expansion Board adds SC-88 Pro sound device functions to the A-90, A-70, and MC-80.

The VE-GS Pro with 64 simultaneous voices, features an impressive variety of built-in effects, including reverb, chorus, EQ, and Multi-Effects, providing the artist with even greater possibilities of expression.

The VE-GS Pro is specifically designed for the A-90, A-70 and MC-80. Please do not install it to any other device.

■ Installing the VE-GS Pro

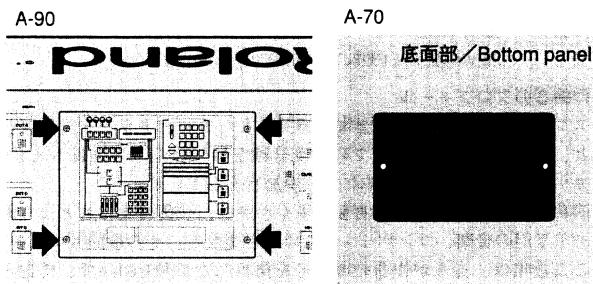
 Always turn the unit off and unplug the power cord before attempting installation of the VE-GS Pro.

Do not leave the board lying about where it can be stepped on or be damaged.

To avoid the risk of damage to internal components that can be caused by static electricity, please carefully observe the following whenever you handle the board.

- Before you touch the board, always first grasp a metal object (such as a water pipe), so you are sure that any static electricity you might have been carrying has been discharged.
- When handling the board, grasp it only by its edges. Avoid touching any of the electronic components or connectors.
- Save the bag in which the board was originally shipped, and put the board back into it whenever you need to store or transport it.

●fig. 1 Removing the cover／図1 カバーの取り外し



1. Remove the cover. (fig. 1)

 Remove only the specified screws.

- A-90: Use a screwdriver to remove the four screws holding the LCD cover at the center of the front panel.
- A-70, MC-80: Remove the bottom panel cover.
 - * Please take care not to touch the LCD (liquid crystal display) inside.
 - * Do not touch any of the printed circuit pathways or connection terminals.

2. Connect the board holder as shown on the diagram. (fig. 2)

- Securely insert the board's connector into the connector in the unit. At this point, the three board holder pins should be protruding through the board's three holes. (fig. 2)

Before using this unit, carefully read the sections entitled: "USING THE UNIT SAFELY" and "IMPORTANT NOTES". These sections provide important information concerning the proper operation of the unit. Additionally, in order to feel assured that you have gained a good grasp of every feature provided by your new unit, this manual should be read in its entirety. The manual should be saved and kept on hand as a convenient reference.

この機器を正しくお使いいただくために、ご使用前に「安全上のご注意」と「使用上のご注意」をよくお読みください。また、この機器の優れた機能を十分ご理解いただくためにも、この取扱説明書をよくお読みください。取扱説明書は必要なときにすぐに見ることができるよう、手元に置いてください。

このたびはローランド・ボイス・エクスパンション・ボードVE-GS Proをお買いあげいただき、まことにありがとうございます。

VE-GS Proは、A-90、A-70、MC-80にSC-88 Pro相当の音源機能を追加する、ボイス・エクスパンション・ボードです。

64ボイスの最大同時発音数、リバーブ、コーラス、イコライザー、マルチ・エフェクトと充実したエフェクトを内蔵していますので、幅広い演奏表現を可能にします。

VE-GS ProはA-90、A-70、MC-80専用です。他の製品には装着しないで下さい。

■ VE-GS Proの取り付けかた



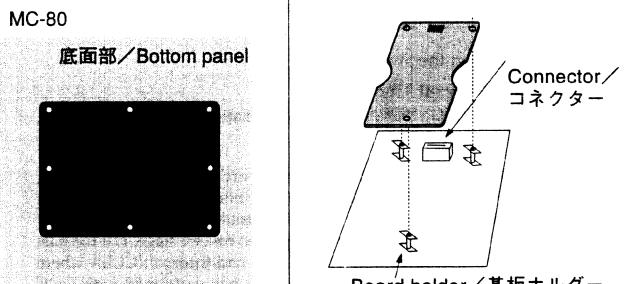
VE-GS Proを取り付ける前に、A-90、A-70、MC-80の電源スイッチをオフにして、電源プラグをコンセントから外してください。

この基板を身の回りに放置しないでください。踏みつけたりすると、けがをすることがあります。

この基板は、静電気により部品が破壊される恐れがあります。基板を取り扱うときは、次の点に注意してください。

- 基板を持つときは、あらかじめ何らかの金属に触れて、体や衣類にたまっている静電気を放電してください。
- 基板を持つときは、基板の縁を持ち、部品やコネクターの部分に直接手を触れないでください。
- 基板を保管するとき、または輸送するときなどは、購入時に基板が入っていた袋（導電袋）に入れてください。

●fig. 2 Installation method／
図2 取り付け方法



1. カバーを取り外します。(図1)



指定されたネジだけを外してください。

- A-90の場合：正面中央のLCDカバーの4箇所のネジをドライバーで外し、LCDカバーを取り外します。

- A-70、MC-80の場合：製品底面のカバーを取り外します。

※ 内部のLCD（液晶ディスプレイ）には触れないでください。

※ 回路部やコネクター部には手を触れないでください。

2. 基板ホルダーを図のような向きに合わせます。(図2)

- エクスパンション・ボードのコネクターを、取り付ける機種のコネクターに完全に差し込みます。このとき3つの基板ホルダーが、エクスパンション・ボードの3つの穴から出るようにします。(図2)

* Never use excessive force when installing the VE-GS Pro. If it doesn't fit properly on the first attempt, remove the board and try again.

4. Using the locking tool included with the board, turn the board holder clockwise just 1/4 of a turn, and the board will be fixed to the unit.

* When circuit board installation is complete, double-check your work.

5. Finally, attach the cover.

If you ever need to remove the board, after turning off power to the device in which it is installed, remove the board by reversing the order of the steps used to install the board.

■ Regarding Operation Methods

●With the MC-80

Please refer to "Using the Internal Sound Generator (VE-GS Pro)" in the MC-80 Owner's Manual.

●With the A-90/70

With the A-90 or A-70, operation varies depending on the version used. If VE-GS Pro is installed, you can check the latest as well as previous versions in the window that appears when the A-90's or A-70's power is turned on.

○If "Expandable Controller Roland A-90 (A-70) with VE-GS Pro" is displayed:

In addition to operation of the VE-GS1 as described in the A-90/A-70 Owner's Manual, you can also use the effect-related functions shown in the included information sheet.

○If "Expandable Controller Roland A-90 (A-70) with VE-GS2" is displayed:

Here you can run it the same way as the VE-GS1 as described in the A-90/A-70 Owner's Manual.

While all Patches available when the VE-GS Pro is installed can be selected using Program Change and Bank Select messages, some of the Patch names are not displayed. To have all Patch names displayed, upgrade (A-90/70) to the most recent version (available for purchase); the Multi-Effects (EFX) settings window is then added.

Contact the nearest Roland Service Center or authorized Roland distributor if you need more detailed information regarding upgrades

* When receiving data via the MIDI IN connector and playing the data through the VE-GS Pro, you can receive messages regardless of the version of A-90 or A-70 used.

■ To listen to the Demo Songs

The VE-GS Pro contains 1 demo song.

Song Title: Walkin' on the Sun

Music by Scott Tibbs

Copyright (C) 1998, Roland Corporation US

Scott Tibbs

Scott Tibbs has performed and conducted for several orchestral groups, including the Atlanta Symphony Orchestra, throughout the United States, Canada, Latin America, and Japan. His diverse compositional output ranges from numerous film, theater and television projects to the symphonic concert stage. For the past four years, he has been teaching music composition and theory at UCLA where he has received a Ph.D. degree in composition. He has performed with well-known artists Dizzy Gillespie, Bill Cosby, Jerry Sienfeld, and Bobby Shew, amongst numerous others.

To play Demo Songs stored in the VE-GS Pro, do as follows.

●With the A-90 and A-70

1. Press the PGM CHANGE and AUX2 buttons in PARAMETER SELECT simultaneously.

2. Press the START/STOP button in SEQUENCER CONTROL to start playing the song.

3. To stop playing, press the START/STOP button again.

4. Press the EXIT button in DATA ENTRY to return to the previous mode before playing the demo song.

●With the MC-80

1. After pressing the TOOLS button, press F3 (MIDI).

* 基板を無理に押し込まないでください。装着しにくい場合、いったん基板を外してやり直してください。

4. ボード付属の固定用具で基板ホルダーを時計回りに1/4回転ほど回し、ボードを固定します。

* 取り付けを終えたら、確実に固定されていることを再度確認してください。

5. 最後にカバーを取り付けます。

ボードを取り外す場合は、取り付ける機器の電源を切ってから、取り付けたときの逆の手順で取り外してください。

■ 操作方法について

●MC-80の場合

MC-80の取扱説明書の「内蔵音源（VE-GS Pro）の使い方」をご覧ください。

●A-90/A-70の場合

A-90/A-70の場合、製品のバージョンによってパネル操作が異なります。VE-GS Proを装着した状態で、A-90/A-70の電源を入れたときの画面表示で新旧バージョンを確認することができます。

○「Expandable Controller Roland A-90 (A-70) with VE-GS Pro」と表示される場合

A-90/A-70取扱説明書に記載されているVE-GS1の操作説明の内容に加え、付属チラシに記載されているエフェクトに関する機能を使用できます。

○「Expandable Controller Roland A-90 (A-70) with VE-GS2」と表示される場合

A-90/A-70取扱説明書に記載されている、VE-GS1を装着した時と同様の操作が可能です。

VE-GS Proに内蔵されたすべてのパッチは、A-90/70でのプログラム・エンジンとパンク・セレクトの操作で選択することができますが、パッチ名が一部表示されないものがあります。最新バージョンにバージョン・アップすることで（有料）すべてのパッチ名が表示されるようになり、さらにマルチ・エフェクト（EFX）の設定操作画面も追加されます。

バージョン・アップについて詳しくは、ローランド・サービスにお問い合わせください。

* A-90/A-70のMIDI IN端子からデータを受信してVE-GS Proを鳴らす場合は、A-90/A-70のバージョンに関係なくメッセージを受信できます。

■ デモ・ソングを聴くときは

VE-GS Proはデモ曲が1曲内蔵されています。

曲名： Walkin' on the Sun

作曲者： Scott Tibbs (スコット・ティップス)

Copyright (C) 1998, Roland Corporation US

作曲者のプロフィール

スコット・ティップスは演奏家／指揮者として、アトランタ交響楽団など、数々のオーケストラでの演奏経験を持つ。全米各地はもとより、カナダ、中南米そして日本にも演奏旅行をしている。

演奏／指揮だけでなく作曲も数多く手がけ、映画音楽はもとより劇場やTV用の音楽、コンサートのための音楽など、その範囲は幅広い。

ここ数年は、自らが作曲の博士号を修得した母校UCLAで、作曲と音楽理論の教鞭をとっている。ディジー・ガレスピー（Dizzy Gillespie）、ビル・コスビー（Bill Cosby）、ジェリー・シーンフェルド（Jerry Sienfeld）やボビー・シュウ（Bobby Shew）など数多くの有名アーティストとも共演している。

VE-GS Proに収められたデモ・ソングを演奏させるときは、次の操作をします。

●A-90、A-70の場合

1. PARAMETER SELECTのPGM CHANGEボタンとAUX2ボタンを同時に押します。

2. SEQUENCER CONTROLのSTART/STOPボタンを押すとデモソングの演奏が始まります。

3. START/STOPボタンをもう一度押すと演奏が止まります。

4. DATA ENTRYのEXITボタンを押すと元のモードに戻ります。

2. Press F6 (EXPBOARD).
3. Press F6 (DEMOPLAY) to begin performance of the demo song.
4. Press F5 (DEMOSTOP) to stop the performance.
5. Press EXIT several times to return to the SONG window.

(Each press of the EXIT button returns the previous windows to the display one by one.)

* All rights reserved. Unauthorized use of this material for purposes other than private, personal enjoyment is a violation of applicable laws.

* No data for the music that is played will be output from MIDI OUT.

* A separate publication titled "MIDI Implementation" is also available. It provides complete details concerning the way MIDI has been implemented on this unit. If you should require this publication (such as when you intend to carry out byte-level programming), please contact the nearest Roland Service Center or authorized Roland distributor.

■ The General MIDI System and GS Format

● What is the General MIDI System?

The General MIDI System is a universal set of specifications for sound generating devices. These specifications seek to allow for the creation of music files which is not limited to equipment by a particular manufacturer or to specific models.

The General MIDI System defines things such as the minimum number of voices that should be supported, the MIDI messages that should be recognized, which sounds correspond to which Program Change numbers, and the layout of rhythm sounds on the keyboard. Thanks to these specifications, any device that is equipped with sound sources supporting the General MIDI System will be able to accurately reproduce General MIDI Scores (music files created for the General MIDI System), regardless of the manufacturer or model.

● What is the GS Format?

The GS Format is Roland's set of specifications for standardizing the performance of sound generating devices. In addition to including support for everything defined by the General MIDI System, the highly-compatible GS Format additionally offers an expanded number of sounds, provides for the editing of sounds, and spells out many details for a wide range of extra features, including effects such as reverb and chorus.

Designed with the future in mind, the GS Format can readily include new sounds and support new hardware features when they arrive. Since it is upwardly compatible with the General MIDI System, Roland's GS Format is capable of reliably playing back GM Scores equally as well as it performs GS Music Files (music files that has been created with the GS Format in mind).

This product supports both General MIDI and GS. Music files which carries either of these logos can be accurately reproduced.

* GS () is a registered trademark of Roland Corporation.

■ IMPORTANT NOTES

In addition to the items listed under "USING THE UNIT SAFELY", please read and observe the following:

Placement

- Do not expose the unit to direct sunlight, place it near devices that radiate heat, leave it inside an enclosed vehicle, or otherwise subject it to temperature extremes. Excessive heat can deform or discolor the unit.

Maintenance

- Never use benzine, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation.

In the interest of product improvement, the specifications and/or contents of this package are subject to change without prior notice.

● MC-80の場合

1. TOOLSボタンを押した後、F3 (MIDI) を押します。

2. F6 (EXPBOARD) を押します。

3. F6 (DEMOPLAY) を押すとデモソングの演奏が始まります。

4. F5 (DEMOSTOP) を押すと演奏が止まります。

5. EXITボタンを数回押すと、ソング画面に戻ります。

(EXITボタンを押すと1つづ前の画面にもどります。)

* これらのデモ・ソングを個人で楽しむ以外に権利者の許諾なく使用することは、法律で禁じられています。

* デモ・ソングの演奏データはMIDI OUTコネクターからは出力されません。

* この機器のMIDI動作仕様をくわしく説明した「MIDI インプリメンテーション」(別売) があります。プログラミング等で必要なかたは、ローランド・サービスにお問い合わせください。

■ GMシステム/GSフォーマットについて

● GMシステム

GMシステムとは、メーカーと機種に限定されないミュージックデータを作成するために考えられた、音源に関する共通仕様です。GMシステムでは、最低限サポートすべきボイス数、認識しなければならないMIDIメッセージ、プログラム・ナンバーに対応する音色、リズム音色の鍵盤への割り当てなどについて定められています。このような取り決めがあるため、GMシステムに適合した音源を備えた機器であれば、メーカーと機種に関わらずGMスコア(GMシステム用に作成されたミュージックデータ)を同じように再生することができます。

● GSフォーマット

GSフォーマット () は、ローランドの音源に関する共通仕様です。GMシステムの仕様に加え、音色数の拡張だけでなく、音色のエディット、エフェクト(リバーブやコーラス)などの機能を細かく規定することにより、互換性をさらに高めています。また、将来のニーズにも柔軟に対応できるよう、新しい音色の追加や、機能の拡張性についても十分考慮されています。GSフォーマットはGMシステムの上位互換なので、GSミュージックデータ(GSフォーマットに基づいて作られたミュージックデータ)と同様に、GMスコアも正しく演奏することができます。

* GS () は、ローランド株式会社の登録商標です。

* MIDIは社団法人 音楽電子事業協会(AMEI)の登録商標です。

■ 使用上の注意

「安全上の注意」以外に、次のことに注意してください。

設置について

- 直射日光の当たる場所や、発熱する機器の近く、閉めた車内などに放置しないでください。変形、変色することがあります。

お手入れについて

- 変色や変形の原因となるベンジン、シンナーおよびアルコール類は、使用しないでください。

修理について

- お客様がこの機器を分解・改造された場合、以後の性能について保証できなくなります。また、修理をお断りする場合もあります。

製品の仕様および内容は、改良のため予告なく変更することがあります。

PC	CC00	Tone Set 3	Voices	Tone Set 2	Voices	Tone Set 1	Voices
011	Perc.Bang	+ 2	---	---	---	---	---
127	000	Applause	#+ 2	Applause	'+ 2	Applause	'+ 2
001	Laughing	#+ 1	Laughing	'+ 1	Laughing	'+ 1	Laughing
002	Screaming	#+ 1	Screaming	'+ 1	Screaming	'+ 1	Screaming
003	Punch	#+ 1	Punch	'+ 1	Punch	'+ 1	Punch
004	Heart Beat	# 1	Heart Beat	' 1	Heart Beat	' 1	Heart Beat
005	Footsteps	#+ 1	Footsteps	'+ 1	Footsteps	'+ 1	Footsteps
006	Applause 2	#+ 2	Applause 2	'+ 2	Applause 2	'+ 2	Applause 2
007	Small Club	+ 2	---	---	---	---	---
008	Applause/Wave+	2	---	---	---	---	---
016	Voice One	+ 1	---	---	---	---	---
017	Voice Two	+ 1	---	---	---	---	---
018	Voice Three	+ 1	---	---	---	---	---
019	Voice Tan	+ 1	---	---	---	---	---
020	Voice Whey	+ 1	---	---	---	---	---
128	000	Gun Shot	#+ 1	Gun Shot	'+ 1	Gun Shot	'+ 1
001	Machine Gun#+	1	Machine Gun'	1	Machine Gun +	1	Machine Gun +
002	Lasergun	#+ 1	Lasergun	'+ 1	Lasergun	'+ 1	Lasergun
003	Explosion	#+ 2	Explosion	'+ 2	Explosion	'+ 2	Explosion
004	Eruption	+ 1	---	---	---	---	---
005	Big Shot	+ 2	---	---	---	---	---

PC:	program number (Tone number)
	プログラム・ナンバー (トーン・ナンバー)
CC00:	value of controller number 0 (Bank number, Variation number)
	コントローラー・ナンバー0の値
Remark:	legato-enabled sounds
	レガート対応音色
Voices:	number of voices used by the Tone
	トーンで使用するボイス数
Remark #:	same sounds as Tone Set 2
	トーン・セット2と同じ音色
Remark *:	same sounds as Tone Set 1
	トーン・セット1と同じ音色
Remark +:	a percussive sound which cannot be played melodically. Use near C4 (note number 60)
	打楽器音や効果音なので音階のついた演奏はできません。 C4 (ノート・ナンバー60) 付近で使用してください。

Rhythm Set List / リズム・セット・リスト

■ Rhythm Set (Tone Set 3) (1)

PC1 STANDARD 1	PC2 STANDARD 2	PC3 STANDARD 3	PC4 ROOM 4	PC5 HIP-HOP
[23] MC500 Step 1	<	<	<	<
[23] MC500 Step 2	<	<	<	<
C124 Concert SD	<	<	<	<
C124 Finger Roll	<	<	<	<
26 Finger Snap	<	<	<	<
26 High D	<	<	<	<
28 Skip	<	<	<	<
29 Scratch Push	[EXC1]	<	<	Scratch Push 2 [EXC1]
29 Scratch Pull	[EXC1]	<	<	Scratch Pull 2 [EXC1]
31 Sticks	<	<	<	<
33 Square Click	<	<	<	<
33 Metronome Click	<	<	<	<
35 Standard 1 Kick 2	<	Standard 2 Kick 2 [RND] Kick	<	Jungle Kick 2
35 Standard 1 Kick 1	<	Standard 2 Kick 1 [RND] Kick	Rhythm Kick 1	Techno Kick 2
36 Side Stick	<	<	Techno Kick 1	Techno Kick 1
38 Standard 1 Sust 1	<	Standard 2 Sust 1 Mid Tom Drp	TR-808 Rim Shot	TR-808 Rim Shot
40 Standard 1 Sust 2	<	Standard 2 Sust 2 Mid Tom	Techno Sust 1	Techno Sust 1
41 Low Tom 2	<	<	Hand Clap 1	Hand Clap 2
41 Closed Hi-Hat	[EXC1]	Closed Hi-Hat	Techno Sust 2	Techno Sust 2
43 Low Tom 1	<	Rhythm Closed Hi-Hat [EXC1]	TR-808 Low Tom 2	TR-808 Closed Hi-Hat [EXC1]
43 Pedal Hi-Hat	[EXC1]	Pedal Hi-Hat [EXC1]	TR-808 Low Tom 1	TR-808 Closed Hi-Hat [EXC1]
45 Mid Tom 2	[EXC1]	Open Hi-Hat [EXC1]	TR-808 Med Tom 2	TR-808 Med Tom 2
47 Mid Tom 1	[EXC1]	Open Hi-Hat [EXC1]	TR-808 Open Hi-Hat [EXC1]	TR-808 Open Hi-Hat [EXC1]
C3-48 High Tom 2	<	<	TR-808 Med Tom 1	TR-808 Med Tom 1
C3-48 Crash Cymbal	<	[RND] Crash Cymbal	TR-808 High Tom 2	TR-808 High Tom 2
50 High Tom 1	<	Rhythm High Tom 1	TR-808 High Tom 1	TR-808 High Tom 1
52 Ride Cymbal 1	<	[RND] Ride Cymbal 1	Rhythm High Tom 1	TR-808 High Tom 1
52 Ride Cymbal	<	[RND] Ride Cymbal	Reverse Cymbal	Reverse Cymbal
53 Tambourine	<	<	Shake Tambourine	Shake Tambourine
55 Shaker Cymbal	<	<	TR-808 Cowbell	TR-808 Cowbell
57 Crash Cymbal 2	<	<	TR-808 Crash Cymbal	TR-808 Crash Cymbal
59 Voca Snap	<	<	<	<
C4-60 Ride Cymbal 2	<	[RND] Ride Cymbal 2	CR-78 High Bongo	CR-78 High Bongo
C4-60 Low Bongo	<	<	TR-808 Low Bongo	TR-808 Low Bongo
62 Mute High Conga	<	<	TR-808 High Conga	TR-808 High Conga
64 Low Conga	<	<	TR-808 Mute Conga	TR-808 Mute Conga
65 High Timbale	<	<	TR-808 Low Conga	TR-808 Low Conga
67 Low Timbale	<	<	<	<
69 Cabasa	<	<	<	<
71 Maracas	<	<	TR-808 Maracas	TR-808 Maracas
C5-72 Long Low Whistle	[EXC2]	<	<	<
72 Short Guro	[EXC3]	<	CR-78 Guro	CR-78 Guro [EXC3]
74 Claves	<	<	TR-808 Claves	TR-808 Claves
76 High Wood Block	<	<	<	<
77 Low Wood Block	[EXC4]	<	<	<
77 Mute Catica	[EXC4]	<	High Hoo [EXC4]	High Hoo [EXC4]
79 Open Catica	[EXC4]	<	Low Hoo [EXC4]	Low Hoo [EXC4]
81 Mute Tamburo	[EXC5]	<	Mute Tamburo	Mute Tamburo
81 Open Tamburo	[EXC5]	<	Open Tamburo	Open Tamburo
B3 Tambourine	<	<	TR-808 Tambourine	TR-808 Tambourine
B3 Jingle Bell	<	<	<	<
B3 Rain Chimes	<	<	<	<
C6-84 Castanets	[EXC6]	<	<	<
86 Mute Studio	[EXC6]	<	<	<
88 Open Studio	[EXC6]	<	Small Club 1	Small Club 1
89 Apollus 2	<	<	<	<
89 No Sound	<	<	<	<
91 No Sound	<	<	<	<
93 No Sound	<	<	<	<
94 No Sound	<	<	<	<
95 No Sound	<	<	<	<

* For note numbers 0~19 and 97~127, refer to p.12.

PC1 STANDARD 1	PC2 STANDARD 2	PC3 STANDARD 3	PC4 JUNGLE	PC5 TECHNO
[23] MC500 Step 1	<	<	<	<
[23] MC500 Step 2	<	<	<	<
C124 Concert SD	<	<	<	<
26 Finger Shape 2	<	Finger Snap	<	<
26 High D	<	<	<	<
28 Skip	<	<	<	<
29 Scratch Push	[EXC7]	<	Scratch Push 2 [EXC7]	Scratch Push 2 [EXC7]
29 Scratch Pull	[EXC7]	<	Scratch Pull 2 [EXC7]	Scratch Pull 2 [EXC7]
31 Sticks	<	<	<	<
33 Square Click	<	<	<	<
33 Metronome Click	<	<	<	<
35 Standard 1 Kick 2	<	Standard 2 Kick 2 [RND] Kick	Jungle Kick 2	Techno Kick 2
35 Standard 1 Kick 1	<	Standard 2 Kick 1 [RND] Kick	Rhythm Kick 1	Techno Kick 1
C2-36 Side Stick	<	<	TR-808 Rim Shot	TR-808 Rim Shot
38 Standard 1 Sust 1	<	Standard 2 Sust 1 Mid Tom Drp	Techno Sust 1	Techno Sust 1
40 Standard 1 Sust 2	<	Standard 2 Sust 2 Mid Tom	Hand Clap	Hand Clap
41 Low Tom 2	<	<	Jungle Sust 2	Jungle Sust 2
41 Closed Hi-Hat	[EXC1]	Closed Hi-Hat	TR-808 Low Tom 2	TR-808 Closed Hi-Hat [EXC1]
43 Low Tom 1	<	Rhythm Closed Hi-Hat [EXC1]	TR-808 Low Tom 1	TR-808 Closed Hi-Hat [EXC1]
43 Pedal Hi-Hat	[EXC1]	Pedal Hi-Hat [EXC1]	TR-808 Med Tom 2	TR-808 Med Tom 2
45 Mid Tom 2	[EXC1]	Open Hi-Hat [EXC1]	TR-808 Open Hi-Hat [EXC1]	TR-808 Open Hi-Hat [EXC1]
47 Mid Tom 1	[EXC1]	Open Hi-Hat [EXC1]	TR-808 Med Tom 1	TR-808 Med Tom 1
C3-48 High Tom 2	<	<	TR-808 High Tom 2	TR-808 High Tom 2
C3-48 Crash Cymbal	<	[RND] Crash Cymbal	TR-808 Crash Cymbal	TR-808 Crash Cymbal
50 High Tom 1	<	Rhythm High Tom 1	TR-808 High Tom 1	TR-808 High Tom 1
52 Reverse Cymbal	<	<	Reverse Cymbal	Reverse Cymbal
53 Shake Tambourine	<	<	Shake Tambourine	Shake Tambourine
55 TR-808 Cowbell	<	<	<	<
C3-48 CR-78 Cymbal 2	<	<	TR-808 Crash Cymbal	TR-808 Crash Cymbal
59 CR-78 High Bongo	<	<	<	<
60 CR-78 Low Bongo	<	<	<	<
62 TR-808 High Conga	<	<	TR-808 High Conga	TR-808 High Conga
64 TR-808 Mute Conga	<	<	TR-808 Mute Conga	TR-808 Mute Conga
65 TR-808 Low Conga	<	<	TR-808 Low Conga	TR-808 Low Conga
67 <	<	<	<	<
69 <	<	<	<	<
71 <	<	<	<	<
C5-72 <	<	<	<	<
74 <	<	CR-78 Guro	CR-78 Guro	CR-78 Guro [EXC3]
75 <	<	TR-808 Claves	TR-808 Claves	TR-808 Claves
77 <	<	<	<	<
77 <	<	<	High Hoo [EXC4]	High Hoo [EXC4]
79 <	<	<	Low Hoo [EXC4]	Low Hoo [EXC4]
81 <	<	<	Mute Tamburo	Mute Tamburo
B3 <	<	<	Open Tamburo	Open Tamburo
B3 <	<	<	TR-808 Tambourine	TR-808 Tambourine
C6-84 <	<	<	<	<
86 <	<	<	<	<
88 <	<	<	<	<
89 <	<	<	Small Club 1	Small Club 1
91 <	<	<	<	<
93 <	<	<	<	<
94 <	<	<	<	<
95 <	<	<	<	<

Note Number PC: Program number (Rhythm Set number)
[1]: Same as the sound of SC-55
[2]: Same as the sound of SC-88.
[EXC1]: Percussion sounds of the same number will not be heard at the same time.
Note Number PC:プログラム・ナンバー（リスト番号）
[1]: 同じ音を鳴らす二つの打楽器音
[2]: 同じ音を鳴らさない二つの打楽器音
Note Number :< Standard 1 (PC1) の打楽器音と同じ
:> Standard 1 (PC1) の打楽器音同時に鳴らさない

Rhythm Set (Tone Set 3) (7)

Notes 0-19 and 97-127 are as follows.

PC 10	Hip-Hop
PC 11	Jungle
PC 12	Techno
PC 25	Electronic
PC 26	TR-808
PC 27	Dance
PC 28	CR-78
PC 29	Standard 2
PC 30	Standard 3
PC 31	Room
PC 111	Power
C-1	[2] Standard 1 Kick 1
2	[2] Standard 2 Kick 1
3	[2] Standard 2 Kick 1
4	[2] Standard 2 Kick 2
5	[1] Kick Drum 1
6	[1] Kick Drum 2
7	[2] Bass Kick 1
8	[2] Bass Kick 2
9	[2] Room Kick 1
10	[2] Room Kick 2
11	[2] Bass Kick 1
12	[2] Power Kick 1
13	[2] Power Kick 2
14	[2] Electric Kick 1
15	[2] TR-808 Kick
16	[2] Dance Kick
17	Voice One
18	Voice Two
19	Voice Three

Rhythm Set (Tone Set 2) (1)

		PC 1 STANDARD 1	PC 2 STANDARD 2	PC 3 ROOM	PC 17 POWER	PC 25 ELECTRONIC
28	Finger Snap	<	<	<	<	<
29	Slap	<	<	<	<	<
30	Scratch Push	[EXC1]	<	<	Scratch Pad 2 [EXC7]	Scratch Pad 2 [EXC7]
31	Scratch Pull	[EXC1]	<	<	<	<
32	Slaps	<	<	<	<	<
33	Square Click	<	<	<	<	<
34	Memonic Click	<	<	<	<	<
35	Metronome Bell	<	Standard 2 Kick 2	Room Kick 2	<	<
C2-36	Standard 1 Kick 1	Standard 2 Kick 1	Standard 2 Kick 1	Room Kick 1	Power Kick 1	Electric Kick 2 [EXC1]
38	Soft Stick	<	Standard 2 Stick 1	Room Stick 1	<	<
39	Standard 1 Stick 1	Standard 2 Stick 1	Standard 2 Stick 1	Room Stick 1	Power Stick 1	Electric Stick 1
40	Hand Clap	<	Standard 2 Shaker 2	Room Shaker 2	<	Electric Shaker 2
41	Standard 1 Shaker 2	Standard 2 Shaker 2	Standard 2 Shaker 2	Room Shaker 2	Power Shaker 2	Electric Shaker 2
42	Low Tom	<	Closed Hi-Hat 2	[EXC1]	Closed Hi-Hat 2	Electric Low Tom 2 [EXC1]
43	Low Tom	<	Open Hi-Hat 3	[EXC1]	Open Hi-Hat 3	Electric Low Tom 1
44	Pedal Hi-Hat	[EXC1]	<	Room Low Tom 1	<	<
45	Mid Tom	<	Room Low Tom 2	<	Power Mid Tom 2	Electric Mid Tom 2
46	Open Hi-Hat	[EXC1]	Open Hi-Hat 2	[EXC1]	Open Hi-Hat 3	Open Hi-Hat 2 [EXC1]
C4-49	Med Tom	<	Med Tom 1	<	Power Mid Tom 1	Electric Mid Tom 1
50	Med Tom 2	<	Med Tom 2	<	Power Hi Tom 2	Electric Mid Tom 2
51	High Tom 1	<	High Tom 1	<	Power Hi Tom 1	Electric Hi Tom 1
52	Side Cymbal	<	Side Cymbal	<	Power Cymbal	Reverse Cymbal
53	Crash Cymbal	<	Crash Cymbal	<	Power Crash	<
54	Tambourine	<	Tambourine	<	<	<
55	Spasit Cymbal	<	Spasit Cymbal	<	<	<
56	Crash Cymbal	<	Crash Cymbal	<	<	<
57	Vibraslap	<	Vibraslap	<	<	<
58	Hi-Hat Cymbal	<	Hi-Hat Cymbal	<	<	<
C4-60	Low Gong	<	Low Gong	<	<	<
61	Low Gong	<	Low Gong	<	<	<
62	Maracas	<	Maracas	<	<	<
63	Cowbell	<	Cowbell	<	<	<
64	Conga	<	Conga	<	<	<
65	Shaker	<	Shaker	<	<	<
66	High Timbale	<	High Timbale	<	<	<
67	Low Timbale	<	Low Timbale	<	<	<
68	High Agogo	<	High Agogo	<	<	<
69	Low Agogo	<	Low Agogo	<	<	<
70	Cabasa	<	Cabasa	<	<	<
71	Marcas	<	Marcas	<	<	<
72	Short HH Snare 1	[EXC1]	CH-78 Snare 1	[EXC1]	CH-78 Snare 2	Long HH Snare
73	CH-78 Snare 2	[EXC1]	CH-78 Snare 2	[EXC1]	CH-78 Snare 1	Short HH Snare
74	Short Snare 1	[EXC1]	TH-808 Snare 1	[EXC1]	TH-808 Snare 2	Short Snare 1
75	TH-808 Snare 2	[EXC1]	TH-808 Snare 2	[EXC1]	TH-808 Snare 1	Long Snare
C8-109	Standard 1 Snare 1	[1] Timpani E	Standard 2 Snare 1	[1] Timpani E	Standard 3 Snare 2	Standard 1 Snare 2
110	Standard 1 Snare 2	[2] Brush Step 1	Standard 2 Snare 1	[1] Timpani A	Standard 3 Snare 1	Standard 1 Snare 2
111	Standard 2 Snare 1	[2] Brush Step 2	Standard 3 Snare 1	[1] Timpani A	Standard 1 Snare 2	Standard 2 Snare 1
112	Standard 2 Snare 2	[2] Brush Step 3	Standard 3 Snare 2	[1] Timpani E	Standard 2 Snare 1	Standard 3 Snare 2
113	Standard 3 Snare 1	[2] Brush Step 4	Standard 1 Snare 1	[1] Timpani E	Standard 2 Snare 2	Standard 3 Snare 1
114	Standard 3 Snare 2	[2] Brush Step 5	Standard 2 Snare 1	[1] Timpani E	Standard 3 Snare 2	Standard 1 Snare 1
115	Electric Snare 1	[2] Brush Step 6	Standard 1 Snare 2	[1] Timpani E	Standard 2 Snare 3	Standard 1 Snare 2
116	Electric Snare 2	[2] Brush Step 7	Standard 2 Snare 2	[1] Timpani E	Standard 3 Snare 1	Standard 1 Snare 3
117	Power Snare 2	[2] Brush Step 8	Standard 3 Snare 1	[1] Timpani E	Standard 1 Snare 3	Standard 2 Snare 2
118	Gated Snare 1	[2] Standard 1 Snare 1	Standard 1 Snare 2	[1] Timpani E	Standard 2 Snare 3	Standard 1 Snare 1
119	Dance Snare 1	[2] Room Snare 1	Standard 2 Snare 1	[1] Timpani E	Standard 3 Snare 2	Standard 2 Snare 1
C9-120	TR-808 Snare 1	[2] Room Snare 2	TR-808 Snare 1	[2] Room Snare 1	TR-808 Snare 2	TR-808 Snare 1
121	TR-808 Snare 2	[2] Room Snare 1	TR-808 Snare 2	[2] Room Snare 2	TR-808 Snare 1	TR-808 Snare 2
122	House Snare 1	[2] Room Snare 1	House Snare 1	[2] Room Snare 2	House Snare 1	House Snare 2
123	House Snare 2	[2] Room Snare 2	House Snare 2	[2] Room Snare 1	House Snare 2	House Snare 1
124	Jungle Snare 1	[2] House Snare 1	House Snare 1	[2] House Snare 2	House Snare 1	House Snare 2
125	House Snare 1	[2] House Snare 1	House Snare 2	[2] House Snare 2	House Snare 1	House Snare 2
126	House Snare 2	[2] House Snare 2	House Snare 2	[2] House Snare 2	House Snare 2	House Snare 1
127	Slap	[2] Slap	[2] Slap	[2] Slap	[2] Slap	[2] Slap

Note Number
↗: Same as the sound of SC-88
*: Tones which are created using two voices

PC: Program number (Rhythm Set number)
[1]: Same as the sound of SC-55
[2]: Same as the sound of SC-88
[EXC]: Percussion sounds of the same number will not be heard at the same time.

PC: プログラム・ナンバー (リズム・セット番号)
*: 使用ボイス数が2つの打楽器音 [EXC]: 同じEXC番号の打楽器音は同時に鳴らない
→: 音は鳴らない

Rhythm Set (Tone Set 2) (2)

PC-36 TR-808/909	PC-37 DAWNE	PC-33 JAZZ	PC-41 BRUSH	PC-49 ORCHESTRA
26 - 35	<	<	<	<
26 - 37	<	<	<	< [EXC1]
28	<	<	<	< [EXC1]
29	Scratch Push1 [EXC1]	Scratch Push2 [EXC1]	Scratch Push [EXC1]	< [EXC1]
31 (4)	<	<	<	< [EXC1]
31	<	<	<	< [EXC1]
33	<	<	<	< [EXC1]
35	Dance Kick [EXC1]	Jazz Kick 2 [EXC1]	Jazz Kick 1 [EXC1]	Jazz Kick 1 [EXC1]
C2-36	860 Bass Drum [EXC1]	Electric Kick 2 [EXC1]	Electric Kick 1 [EXC1]	Concert Snare Drum [EXC1]
38	860 Snare 1 [EXC1]	Dance Snare 1 [EXC1]	Jazz Snare 1 [EXC1]	Jazz Snare 1 [EXC1]
40	860 Snare 2 [EXC1]	Jazz Snare 2 [EXC1]	Brush Top1 [EXC1]	Concert SD [EXC1]
41	860 Low Tom 2 [EXC1]	Electric Low Tom 2 [EXC1]	Brush Low Tom2 [EXC1]	Catbirds [EXC1]
43	860 Low Tom 1 [EXC1]	Electric Low Tom 1 [EXC1]	Closed Hi-Hat2 [EXC1]	Concert Hi-Hat [EXC1]
45	860 Mid Tom 2 [EXC1]	Electric Mid Tom 2 [EXC1]	Brush Mid Tom2 [EXC1]	Concert Snare [EXC1]
47	860 Mid Tom 1 [EXC1]	Electric Mid Tom 1 [EXC1]	Brush Mid Tom1 [EXC1]	Concert Snare [EXC1]
C3-48	860 Hi Tom2 [EXC1]	Electric High Tom 2 [EXC1]	Brush Hi Tom2 [EXC1]	Concert Cymbal [EXC1]
50	860 Hi Tom 1 [EXC1]	Electric High Tom 1 [EXC1]	Brush Hi Tom1 [EXC1]	Concert Cymbal [EXC1]
52	<	<	< [EXC1]	Concert Cymbal [EXC1]
53	<	<	< [EXC1]	Concert Cymbal [EXC1]
55	<	<	<	Concert Cymbal [EXC1]
57	<	<	<	Concert Cymbal [EXC1]
59	<	<	<	Concert Cymbal [EXC1]
C4-60	<	<	<	Concert Cymbal [EXC1]
62	<	<	<	Concert Cymbal [EXC1]
64	<	<	<	Concert Cymbal [EXC1]
65	<	<	<	Concert Cymbal [EXC1]
67	<	<	<	Concert Cymbal [EXC1]
69	<	<	<	Concert Cymbal [EXC1]
71	<	<	<	Concert Cymbal [EXC1]
C5-72	<	<	<	Concert Cymbal [EXC1]
74	<	<	<	Concert Cymbal [EXC1]
76	<	<	<	Concert Cymbal [EXC1]
77	<	<	<	Concert Cymbal [EXC1]
79	<	<	<	Concert Cymbal [EXC1]
C5-80	<	<	<	Concert Cymbal [EXC1]
81	<	<	<	Concert Cymbal [EXC1]
83	<	<	<	Concert Cymbal [EXC1]
C6-84	<	<	<	Concert Cymbal [EXC1]
86	<	<	<	Concert Cymbal [EXC1]
88	<	<	<	Concert Cymbal [EXC1]
90	<	<	<	Concert Cymbal [EXC1]
92	<	<	<	Concert Cymbal [EXC1]
95	<	<	<	Concert Cymbal [EXC1]
C7-96	<	<	<	Concert Cymbal [EXC1]
98	<	<	<	Concert Cymbal [EXC1]

PC: Program number (Rhythm Set number)
*: Tones which are created using two voices

Note Number

Rhythm Set (Tone Set 2) (3)

PC-56 TR-808/909	PC-57 SHX	PC-58 RH1/RH2/PX
25	Finger Snap [EXHNC]	...
26	Tambourine [EXC1]	...
27	Casuarina [EXC1]	...
28	Crash Cymbal1 [EXC1]	...
29	Share Rnb [EXC1]	...
30 (4)	Concert Saxes Drum [EXC1]	...
31	Concert Cymbal [EXC1]	...
33	Jingle Bell [EXC1]	...
34	Bell Tree [EXC1]	...
35	Bar Chimes [EXC1]	...
C2-36	Vieitaké [EXC1]	...
36	Wetaké Tim [EXC1]	...
38	Shine Fallo [EXC1]	...
39	Ahangue [EXC1]	...
40	Housing [EXC1]	...
41	Okawa [EXC1]	...
43	High Kotsuzumi [EXC1]	...
45	Low Kotsuzumi [EXC1]	...
47	Ban Gu [EXC1]	...
C3-48	Kick 1 [EXC1]	...
50	Kick 2 [EXC1]	...
52	Kick 3 [EXC1]	...
53	Kick 4 [EXC1]	...
55	Small Gong [EXC1]	...
57	Big Gong [EXC1]	...
59	Medium Gong [EXC1]	...
C4-60	Soft Gong [EXC1]	...
62	Medium Gong [EXC1]	...
64	Large Gong [EXC1]	...
65	Finger Gong [EXC1]	...
67	Foot Gong [EXC1]	...
69	Hand Gong [EXC1]	...
71	Bamboo Gong [EXC1]	...
C5-72	Ice Gong [EXC1]	...
74	Wood Gong [EXC1]	...
76	Steel Gong [EXC1]	...
77	Maracas [EXC1]	...
79	Shakers [EXC1]	...
C5-80	Shakers [EXC1]	...
81	Maracas [EXC1]	...
83	Shakers [EXC1]	...
C6-84	Shakers [EXC1]	...
86	Shakers [EXC1]	...
88	Shakers [EXC1]	...
90	Shakers [EXC1]	...
92	Shakers [EXC1]	...
95	Shakers [EXC1]	...
C7-96	Shakers [EXC1]	...
98	Shakers [EXC1]	...

PC: Program number (Rhythm Set number)
*: Same as the percussion sound of "STANDARD" (PC1)
[EXC1]: Percussion sounds of the same number will not be heard at the same time.
Note Number: PC: プログラム・ナンバー (リズム・セット番号) *: Standard 1 (PC1) の打楽器音と同じ
*: 使用ボイス数が2の打楽器音 [EXC1]: 同じ番号の打楽器音は同時に鳴らない

USING THE UNIT SAFELY

INSTRUCTIONS FOR THE PREVENTION OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

About WARNING and CAUTION Notices

WARNING	Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used improperly.
CAUTION	Used for instructions intended to alert the user to the risk of injury or material damage should the unit be used improperly. * Material damage refers to damage or other adverse effects caused with respect to the home and all its furnishings, as well to domestic animals or pets.

About the Symbols

	The  symbol alerts the user to important instructions or warnings. The specific meaning of the symbol is determined by the design contained within the triangle. In the case of the symbol at left, it is used for general cautions, warnings, or alerts to danger.
	The  symbol alerts the user to items that must never be carried out (are forbidden). The specific thing that must not be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the unit must never be disassembled.
	The  symbol alerts the user to things that must be carried out. The specific thing that must be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the power-cord plug must be unplugged from the outlet.

ALWAYS OBSERVE THE FOLLOWING

WARNING

- Before using this unit, make sure to read the instructions below, and the Owner's Manual. 
- Do not open or perform any internal modifications 
- Do not attempt to repair the unit, or replace parts within it (except when this manual provides specific instructions directing you to do so). Refer all servicing to your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page. 
- Never use or store the unit in places that are:
 - Subject to temperature extremes (e.g., direct sunlight in an enclosed vehicle, near a heating duct, on top of heat-generating equipment); or are 
 - Damp (e.g., baths, washrooms, on wet floors); or are 
 - Humid; or are 
 - Exposed to rain; or are 
 - Dusty; or are 
 - Subject to high levels of vibration. 
- Do not allow any objects (e.g., flammable material, coins, pins); or liquids of any kind (water, soft drinks, etc.) to penetrate the unit. 

WARNING

- In households with small children, an adult should provide supervision until the child is capable of following all the rules essential for the safe operation of the unit. 
- Protect the unit from strong impact. 
(Do not drop it!) 
- Before installing the VE-GS Pro, you must first always turn off the unit and unplug its power cord. 

CAUTION

- Never climb on top of, nor place heavy objects on the unit. 
- Install the circuit board only into the specified unit (MC-80, A-90/70). Remove only the specified screws during the installation. 

安全上のご注意

火災・感電・傷害を防止するには

△警告と△注意の意味について

△ 警告	取扱いを誤った場合に、使用者が死亡または重傷を負う可能性が想定される内容を表わしています。
△ 注意	取扱いを誤った場合に、使用者が傷害を負う危険が想定される場合および物的損害のみの発生が想定される内容を表わしています。 ※物的損害とは、家屋・家財および家畜・ベットにかかる拡大損害を表わしています。

図記号の例

	△は、注意（危険、警告を含む）を表わしています。 具体的な注意内容は、△の中に描かれています。左図の場合は、「一般的な注意、警告、危険」を表わしています。
	○は、禁止（してはいけないこと）を表わしています。 具体的な禁止内容は、○の中に描かれています。左図の場合は、「分解禁止」を表わしています。
	●は、強制（必ずすること）を表わしています。 具体的な強制内容は、●の中に描かれています。左図の場合は、「電源プラグをコンセントから抜くこと」を表わしています。

-----以下の指示を必ず守ってください-----

△ 警告

- この機器を使用する前に、以下の指示と取扱説明書をよく読んでください。



- この機器を分解したり、改造したりしないでください。



- 修理／部品の交換などで、取扱説明書に書かれていないことは、絶対にしないでください。
必ずお買い上げ店またはローランド・サービスに相談してください。



- 次のような場所での使用や保存はしないでください。

○温度が極端に高い場所（直射日光の当たる場所、暖房機器の近く、発熱する機器の上など）



○水気の近く（風呂場、洗面台、濡れた床など）

や湿度の高い場所



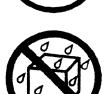
○雨に濡れる場所

○ホコリの多い場所

○振動の多い場所



- この機器に、異物（燃えやすいもの、硬貨、針金など）や液体（水、ジュースなど）を絶対に入れないでください。



△ 警告

- お子様のいるご家庭で使用する場合、お子様の取り扱いやいたずらに注意してください。必ず大人のかたが、監視／指導してあげてください。



- この機器を落としたり、この機器に強い衝撃を与えないでください。



- VE-GS Proを取り付ける前に、本体の電源を切って電源プラグをコンセントから外してください。



△ 注意

- この機器の上に乗ったり、機器の上に重いものを置かないでください。



- 指定の機器（MC-80, A-90/70）だけに取り付け、取り付け時には指定されたネジだけを外してください。



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