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You can read the recommendations in the user guide, the technical guide or the installation guide for ROLAND GR-20. You'll find the answers to all your questions on the ROLAND GR-20 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ROLAND GR-20
User guide ROLAND GR-20
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Roland

GUITAR SYNTHESIZER **GR-20**

Owner's Manual

Before using this unit, carefully read the sections entitled: "USING THE UNIT SAFELY" and "IMPORTANT NOTES" (p. 2-3, p. 4). 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, Owner's manual should be read in its entirety. The manual should be saved and kept on hand as a convenient reference.

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Manual abstract:

4). @@@@No part of this publication may be reproduced in any form without the written permission of ROLAND CORPORATION. USING THE UNIT SAFELY Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used improperly. 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 other adverse effects respect to the home furnishings, as well animals or pets. to damage or caused with and all its to domestic 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. @@@@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 powercord plug must be unplugged from the outlet.

001 009 · Before using this unit, make sure to read the instructions below, and the Owner's Manual.

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..... 002c · Do not open (or modify in any way) the unit or its AC adaptor. ...

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.... 003 · Do not excessively twist or bend the power cord, nor place heavy objects on it.

Doing so can damage the cord, producing severed elements and short circuits. Damaged cords are fire and shock hazards!

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.. 010 · 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.

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004 · 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.

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. 007 · This unit, either alone or in combination with an amplifier and headphones or speakers, 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 immediately stop using the unit, and consult an audiologist. .

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011 · Do not allow any objects (e.g., flammable material, coins, pins); or liquids of any kind (water, soft drinks, etc.) to penetrate the unit.

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..... 104 · Before using the unit in a foreign country, consult with your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page. · Try to prevent cords and cables from becoming entangled.

Also, all cords and cables should be placed so they are out of the reach of children.

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.. 106 · Never climb on top of, nor place heavy objects on the unit. ..

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.... 107c · Never handle the AC adaptor or its plugs with wet hands when plugging into, or unplugging from, an outlet or this unit.

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. 108b · Before moving the unit, disconnect the AC adaptor and all cords coming from external devices.

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..... 109b · Before cleaning the unit, turn off the power and unplug the AC adaptor from the outlet (p. 10).

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..... 110b · Whenever you suspect the possibility of lightning in your area, disconnect the AC adaptor from the outlet. 3 IMPORTANT NOTES 291a In addition to the items listed under "USING THE UNIT SAFELY" on page 23, please read and observe the following: Power Supply 301 Repairs and Data 452 · Do not use this unit on the same power circuit with any device that will generate line noise (such as an electric motor or variable lighting system). 302 · The AC adaptor will begin to generate heat after long hours of consecutive use. This is normal, and is not a cause for concern.

307 · Before connecting this unit to other devices, turn off the power to all units. This will help prevent malfunctions and/or damage to speakers or other devices. · Please be aware that all data contained in the unit's memory may be lost when the unit is sent for repairs. Important data should always be backed up in another MIDI device (e.



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g., a sequencer), or written down on paper (when possible). During repairs, due care is taken to avoid the loss of data. However, in certain cases (such as when circuitry related to memory itself is out of order), we regret that it may not be possible to restore the data, and Roland assumes no liability concerning such loss of data. Placement 351 Additional Precautions 551 · Using the unit near power amplifiers (or other equipment containing large power transformers) may induce hum. To alleviate the problem, change the orientation of this unit; or move it farther away from the source of interference. 352a · Please be aware that the contents of memory can be irretrievably lost as a result of a malfunction, or the improper operation of the unit. To protect yourself against the risk of losing important data, we recommend that you periodically save a backup copy of important data you have stored in the unit's memory in another MIDI device (e.g., a sequencer). 552 · This device may interfere with radio and television reception.

Do not use this device in the vicinity of such receivers. 352b · Noise may be produced if wireless communications devices, such as cell phones, are operated in the vicinity of this unit. Such noise could occur when receiving or initiating a call, or while conversing. Should you experience such problems, you should relocate such wireless devices so they are at a greater distance from this unit, or switch them off. 354a · Unfortunately, it may be impossible to restore the contents of data that was stored in another MIDI device (e.

g., a sequencer) once it has been lost. Roland Corporation assumes no liability concerning such loss of data. 553 · Use a reasonable amount of care when using the unit's buttons, sliders, or other controls; and when using its jacks and connectors. Rough handling can lead to malfunctions. 556 · 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. 355b · When connecting / disconnecting all cables, grasp the connector itself--never pull on the cable. This way you will avoid causing shorts, or damage to the cable's internal elements. 558a · When moved from one location to another where the temperature and/or humidity is very different, water droplets (condensation) may form inside the unit.

Damage or malfunction may result if you attempt to use the unit in this condition. Therefore, before using the unit, you must allow it to stand for several hours, until the condensation has completely evaporated. · To avoid disturbing your neighbors, try to keep the unit's volume at reasonable levels. You may prefer to use headphones, so you do not need to be concerned about those around you (especially when it is late.....

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.. 10 Chapter 1 Play the Sounds!

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.....11 Preparing Your Guitar

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21). 25. *GLIDE* indicator This indicator will light or blink according to how you operate the *GLIDE* pedal.

13. *[ATTACK]* knob Adjusts the speed of the attack (p. 20). 26. *HOLD* pedal Press this pedal to apply the Hold effect to the sound (p.

16). 14. *[RELEASE]* knob Adjusts the length of the release (p. 20). 27. *HOLD* indicator 15. *[CHORUS]* knob Adjusts the chorus depth (p. 20). This indicator will light or blink according to how you operate the *HOLD* pedal. 16.

[DELAY/REVERB] knob Adjusts the delay or reverb depth (p. 20). 28. *Expression* pedal Use this pedal to adjust the volume or to apply continuous change to the sound (p. 16). 17. *[LEVEL]* knob Adjusts the volume of the synth sound for each patch (p. 20). When you operate the expression pedal, please be careful not to get your fingers pinched between the movable part and the panel. 18.

[EXIT] button Press this to cancel an operation, or to return to a previous state. 19. *[WRITE]* button Press this button to write (store) or copy a patch (p. 24, p. 25).

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. 20. *[TUNER]* button Press this button when you want to use the Tuner function (p. 13). 9 Names of Things and What They Do Rear Panel fig. 0-02 (Panel Descriptions) 29. *GK IN* connector Use the included *GK* cable (or *GKC-3/5/10* (sold separately) to connect this connector to your divided pickup. * For details on connections to a commercially available *GK* compatible guitar, refer to the guitar manufacturer or your dealer. * This is available only if the output of your guitar is connected to the normal pickup input jack of the divided pickup. 33. *[OUTPUT LEVEL]* knob Adjusts the volume that is sent from the output jacks. 34. *MIDI IN/OUT* connectors These can be connected to external *MIDI* devices, allowing the *GR-20* to send and receive *MIDI* data. 30. *GUITAR OUT* jack This jack outputs the sound from the normal pickup of your guitar.

Connect this jack to your guitar amp or guitar effects unit. 35. *[POWER]* switch Turns the power on/off. 31. *MIX IN R (MONO)/L* jacks The sound that is input to these jacks is mixed with the synth sound of the *GR-20* and sent from the *OUTPUT* jacks (32). If you have connected the *GUITAR OUT* jack (30) to an external effects unit, connect the output of your effects unit to this jack; the synth sound and the sound processed by the effects unit will be output together from the *OUTPUT* jacks (32) (p. 17). 36. *AC Adaptor* jack Connect the included *AC* adaptor (*BRC*-series) here. Use only the attached power-supply cord. Also, the supplied power cord must not be used with any other device. 37. Cable hook 32. *OUTPUT R (MONO)/L (PHONES)* jacks These jacks output the *GR-20*'s synth sound combined with the sound that is input to the *MIX IN* jacks (31). If you're making connections to a monaural amp, use *R (MONO)* jack.

The *L (PHONES)* jack can also be used as a headphone jack (stereo). (However, if headphones are connected to *L (PHONES)* jack, you cannot simultaneously use *R (MONO)* jack as an output.) If nothing is connected to the *GUITAR OUT* jack (30) or *MIX IN* jacks (31), the guitar's normal pickup sound will also be mixed into this output. Loop the *AC* adaptor cable around this hook to prevent the cable from being accidentally disconnected. 38. Security Slot () <http://www.kensington.com/> 10 Chapter 1 Play the Sounds! Preparing Your Guitar · In order to use the *GR-20* you will need a guitar that has a divided pickup (*GK* pickup) such as the Roland *GK-3* or *GK-2A*, or a bass guitar that has a bass guitar divided pickup such as the Roland *GK-3B/GK-2B*, which can independently output a separate signal for each string. · For details on installing the *GK* pickup, refer to the manual that came with your *GK* pickup. · Notes may be sounded incorrectly if there are string buzzes due to improper neck curvature or buzzing frets, or if the octave adjustment (intonation) is incorrect. Various guitar manufacturers sell *GK*-Compatible guitars that have a pre-installed *GK* pickup or contain equivalent functionality. For details, contact your guitar dealer or a guitar manufacturer. In order to use the *GR-20* with a bass guitar, follow the procedure described in Chapter 6 Appendices "Switching the *GR-20* between bass guitar and guitar operation (p. 32)" to switch the *GR-20* to bass guitar operation. Connections fig.

1-01(Connection) Stereo set, radio-cassette player, etc. Synthesizer amp (keyboard amplifier, PA system, etc.) To *AUX*, *LINE IN L R L R* Guitar amp / guitar effects processors Stereo headphones The (*L*) *MIX OUT* jacks can also be used as dual stereo headphone jacks. Also be aware that you cannot simultaneously use one jack as a *LINE OUT* while using the other as a headphone jack that is, you can't use a monaural plug and a stereo plug at the same time. Guitar with *GK-3 / GK-2A / other GK-Compatible* guitar or Bass guitar with *GK-3B / GK-2B AC adaptor (BRC series)* * To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections * The volume of your amp should be raised only after you have turned on the power of all your other equipment. * If you're outputting in monaural, connect the cable to the *R (MONO) OUTPUT* jack. * To prevent the inadvertent disruption of power to your unit (should the plug be pulled out accidentally), and to avoid applying undue stress to the *AC* adaptor jack, anchor the power cord using the cord hook, as shown in the illustration. fig.1-02(Cord Hook) 11 Chapter 1 Play the Sounds! Turning the Power On Once the connections have been completed, turn on power to your various devices in the order specified. By turning on devices in the wrong order, you risk causing malfunction and/or damage to speakers and other devices.

1. If you've connected a device to *MIX IN*, turn on the power of that device. 2. Turn on the power of the *GR-20*. Adjusting the Input Sensitivity (*GK SENS*) You'll need to adjust the input sensitivity of each string according to your picking strength and how the divided pickup is installed.

If this adjustment is not made correctly, the system won't work properly. You must perform this adjustment to ensure that you're taking full advantage of the *GR-20*'s capabilities. * Once you make this adjustment, it's stored within the *GR-20*; you won't need to make it again. However, you should perform the adjustment again after changing the strings or adjusting the action of your guitar, or before using a different *GK* guitar. * If you're using a bass guitar, you can use the following table to convert the string names and indications you see in the display while performing the procedure below.

6th string B string 5th string E string (4th string on a conventional four-string bass) 4th string A string (3rd string on a conventional four-string bass) 3rd string D string (2nd string on a conventional four-string bass) 2nd string G string (1st string on a conventional four-string bass) 1st string C string 1.



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Press the [GK SENS] button. 2. Play only the 6th string. The left side of the display will show "6," indicating that you played the 6th string. The right digit will show the GK SENS setting. The BANK indicators will function as a level meter and show the strength of the guitar signal. After you've turned on the power, you'll be ready to play when the panel indicators and the display reach the state shown in the illustration. This state is called "Play mode." Before the GR-20 enters Play mode, it will indicate whether it is currently in guitar mode or bass guitar mode.

· Guitar mode: " " · Bass guitar mode: " " * For details on how to switch between guitar mode and bass guitar mode, refer to p. 32. * This unit is equipped with a protection circuit. A brief interval (a few seconds) after power up is required before the unit will operate normally. fig.1-03(Play Mode) 3. Turn on the power of your amp. * If the left digit of the display does not show the number of the string you played, press the HOLD pedal or GLIDE pedal several times to make the desired string number appear. fig.1-04(GK SENS) Adjusting the Output Level Use the [OUTPUT LEVEL] knob on the rear panel to adjust the output level of the GR-20.

Turning the knob toward the right (toward MAX) will increase the volume. With the knob turned all the way to the left (toward MIN), the volume will be zero. * Normally, you should set this near the middle of the range. fig.1-10(Level) Level Meter 3.

Adjust the sensitivity. Turn the [NUMBER/VALUE] knob to adjust the sensitivity. The sensitivity will increase as the number in the right of the display increases. Adjust the sensitivity so that all of the level meter indicators light briefly when you pick a note strongly. 12 Chapter 1 Play the Sounds! * You can also use your GK pickup's UP/S2 button and DOWN/S1 button to adjust the sensitivity in the same way.

4. Perform steps 23 for strings 51 to adjust the sensitivity of all strings. 5. Press the [GK SENS] button or [EXIT] button. The GK SENS settings you made are stored in the GR20k, and you will return to Play mode. @@Don't turn off the power during this time. * If you turn off the power before returning to Play mode, the settings you made will not be stored. 2. Use the [NUMBER/VALUE] knob to adjust the reference pitch. If you turn the [NUMBER/VALUE] knob slightly, the current reference pitch will be displayed for several seconds.

By turning the [NUMBER/VALUE] knob during this time, you can adjust the reference pitch. * You can adjust the reference pitch in a range of 427 Hz-452 Hz. When the GR-20 is shipped from the factory, this is set to 440 Hz. * The reference pitch you specify will be stored when you exit the Tuner function. Be aware that the setting will not be stored if you turn off the power before doing so. 3. Cleanly play an unfretted note on the string that you want to tune. If you're using a bass guitar, the number shown at the left side of the display will be as shown in the following table. The display will indicate the note name. fig.

1-051 Displayed No. 1 4-string bass 5-string bass 6-string bass 2 1G string 1G string 3 2D string 2D string 3D string 4 5 6 C C# F# G G# A A# B 3A 4E string string 3A 4E string string 4A 5E string string 5B string 6B string D D# E F 1C 2G string string Tuning Your Guitar (Tuner Function) Since the GR-20 analyzes the pitch of each string in order to determine the sound it should produce, you must tune your guitar accurately. * If your guitar is mistuned, the sound produced will be out of tune, and the system will not operate correctly. 1. Press the [TUNER] button.

The [TUNER] button will light, and the Tuner function will be on. The lower two digits of the current reference pitch will be shown for approximately two seconds in the display. Then you will be able to tune your guitar. Example: When the pitch is set to 440Hz fig.1-05(Reference pitch) 4.

Tune your guitar. Watch the indicator in the panel, and tune your guitar so that only the green indicator in the middle is lit. fig.1-06(Tuning) too low too high 5. Repeat steps 34 to tune each string of your guitar. 6. Press the [TUNER] or [EXIT] button to exit the Tuner function. The reference pitch you specified will be stored, and you will return to Play mode. * The decimal point in the display will blink while the reference pitch is being stored. Don't turn off the power during this time.

* You can also turn on the Tuner function by pressing the HOLD pedal and GLIDE pedal simultaneously. 13 Chapter 1 Play the Sounds! Specifying the Output Device (OUTPUT SELECT) Here you can specify the type of system connected to the OUTPUT jacks. This setting allows the GR-20 to internally optimize its sound for the type of playback system you are using. * This does not affect the sound that is input to MIX IN. 1. Press the [SYSTEM EDIT] button a number of times until the OUTPUT/FREQ indicator lights. fig.1-07(OUTPUT SELECT) Selecting a Sound (Patch) What is a Patch A "patch" is a sound you play on the GR-20; in addition to the type of sound, a patch also contains settings for effects such as reverb and chorus. The GR-20's patches are organized into ten banks by type, with the patches numbered within each bank. In Play mode, the BANK indicator and the display show the patch that is currently selected.

You can edit the settings of a patch to your taste, and store edited patches in the USER bank (p. 24). You can use any of the following ways to select a patch. Using the Knob to Select Patches 1. Use the [BANK] knob to select the type of sound you want.

2. Use the [NUMBER/VALUE] knob to change the setting. Guitar amp fig.1-071 From the ten sound banks and the user bank, select the bank that contains the sound you want to use. 2.

Use the [NUMBER/VALUE] knob to select a sound within the bank. Turning the [NUMBER/VALUE] knob will change the number shown in the display, letting you choose from various sounds within the selected bank. fig.1-08(Sound Select) Use this setting if you've connected the GR-20 to a guitar amp. Line fig.1-072 Use this setting if you've connected the GR-20 to a keyboard amp, mixer, headphones, or recorder. * If you're using a bass amp, use the Line setting. 3. Press the [EXIT] button. The setting will be stored, and you will return to Play mode.

@@Don't turn off the power during this time. * If you turn off the power before returning to Play mode, the setting you made will not be stored. 14 Chapter 1 Play the Sounds! Using the Switches of the GK Pickup to Select Patches In Play mode, you can use the UP/S2 button and DOWN/S1 button of the GK pickup to select the next or previous number. When you reach the upper or lower limit within a bank, you will move to the next bank. fig.1-09(S1/S2) Play the GR-20! Let's get started playing the GR-20. Check the following points.



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1. Make sure that the GR-20 is in Play mode (the state it's normally in immediately following power up). In some cases, you won't hear any sound if the GR-20 is not in Play mode.

2. Set the select switch of your GK pickup to the "GK" position (on the GK-2A, the "SYNTH" position). If this switch is set to "GUITAR," the normal pickup sound will be output. If this switch is set to "MIX," the synth sound and the guitar normal pickup sound will be mixed and output. 3.

Turn the volume of the GK pickup to the right. Using the Foot Pedals to Select Patches When shipped from the factory, the GR-20's two foot pedals are assigned to the Hold function and Glide (Pitch Bend) function respectively. You can change these assignments so that the foot pedals will select patches. For details, refer to Changing the function of the foot pedals (SW MODE) (p. 26).

This volume controls the synth sounds of the GR-20. fig.1-11(GK-3) Using an External Device Via MIDI to Select Patches You can connect an external device (e.g., multi-effects unit) to the MIDI IN connector, and select patches on the GR-20 by operating the external MIDI device. For details, refer to Using the GR-20 with a Multi-effects Unit (p. 18). Using the Foot Pedal to Change the Pitch (GLIDE) You can press the GLIDE pedal to change the pitch of the currently playing synth sound smoothly. The type of change will depend on the sound, and you can also adjust the change to your taste (p. 22).

fig.1-12(GLIDE) * The GLIDE indicator will blink while you are pressing the pedal. 15 Chapter 1 Play the Sounds! Using the Foot Pedal to Sustain the Sound (HOLD) You can press the HOLD pedal to sustain the synth sound you're playing. The effect will depend on the sound, and you can also adjust the effect to your taste (p. 23). fig.1-13(HOLD) Turning the Power Off When you're ready to turn off the power, be sure to do so in the following order. 1. Turn off the power of your amp. 2.

Turn off the power of the GR-20. 3. Turn off the power of the device connected to MIX IN. * The HOLD indicator will blink while you are pressing the pedal. Using the Expression Pedal to Modify the Sound (EXP PEDAL) You can use the expression pedal to continuously vary the volume or tone of the synth sound. The effect will depend on the sound, and you can also adjust the effect to your taste (p. 23). fig.1-14(EXP) 16 Chapter 2 Using the GR-20 with Guitar Effects

Here's how you can use your own effects unit and combine the sound of the guitar with the synth sound to create an even more interesting range of possibilities. The sound of the guitar's normal pickups will pass through the GK cable and be output from the GR-20's GUITAR OUT jack.

The sound that is processed by your effects unit can be connected to the GR-20's MIX IN, and internally mixed with the GR-20's synth sound. * Connect the output of your guitar to the normal pickup input jack of the GK pickup. Connections Using a compact effect device or a multi-effects unit that has no MIDI connector fig.2-01(Effect Connection 1) Guitar amp * Set the GR-20's OUTPUT SELECT to "Guitar Amp" (p. 14). Using a multi-effects unit that has a MIDI connector fig.2-02(Effect Connection 2) Keyboard amplifier, PA system, etc. * If you're using a multi-effects unit, set the GR-20 as follows: Guitar Amp Simulation: on Output Select: line * Set the GR-20's OUTPUT SELECT to "Line" (p. 14). * If your multi-effects device does not have a amp simulator, set the GR-20's OUTPUT SELECT to "Guitar Amp," and connect the output to a guitar amp.

17 Chapter 2 Using the GR-20 with Guitar Effects Switching between the Synth Sound and Guitar Sound To switch between the synth sound and guitar sound,

use the selector switch provided on your GK pickup. f Using the GR-20 with a Multi-effects Unit By connecting your multi-effects unit via MIDI, you can automatically change sounds (patches) on the GR-20 by selecting sounds (patches) on your multi-effects unit. Channel (CH) MIDI uses "channels" to send independent streams of data over a single cable. In order for data to be received, the receiving device must be set to receive the channel that the transmitting device is sending on. This means you must set the transmit channel of your multi-effects unit to match the receive channel of the GR-20. 1. Check the MIDI transmit channel of your multi-effects unit. For details, refer to the manual of your multi-effects unit. 2. Press the [SYSTEM EDIT] button a number of times until the MIDI CH/PLAY FEEL indicator lights.

fig.2-03(MIDI CH) If the selector of your GK pickup (e.g., GK-3, GK-2A) is set to the GK position (labeled SYNTH on the GK-2A), the synth sound will be output. If set to the GUITAR position, the guitar sound will be output.

If the selector is set to MIX, both sounds will be mixed and output. * To adjust the volume balance between the synth sound and guitar sound, use the volume (p. 20) of each patch to adjust the synth sound, and the volume of the guitar or the connected effects device to adjust the volume of the guitar sound. 3. Use the [NUMBER/VALUE] knob to change the setting.

Set the channel so it's the same as the MIDI transmit channel of your multi-effects unit. 4. Press the [EXIT] button. The setting will be stored, and you will return to Play mode. @@Don't turn off the power during this time. * If you turn off the power before returning to Play mode, the setting you made will not be stored. 18 Chapter 2 Using the GR-20 with Guitar Effects Patch Link Setup (PATCH LINK SETUP) Here's how to link the patches (sounds) of your multi-effects unit with the patches (sounds) of the GR-20. This will cause the GR-20 to automatically switch to the specified sound (patch) when you change patches on your multi-effects unit. 1. Use a MIDI cable to connect the MIDI OUT of your multi-effects unit to the GR-20's MIDI IN.

2. Make sure that the MIDI transmit channel of your multi-effects unit is the same as the MIDI channel of the GR-20 (p. 18). 3. Press the [SYSTEM EDIT] button a number of times until the PATCH LINK SETUP/TRANSPOSE indicator lights. fig.2-04(PATCH LINK) 4. On your multi-effects unit, select the patch for which you want to specify a link. * When you select a patch on your multi-effects unit, it will send a "MIDI Program Change" message to the GR-20. The GR-20 will remember the content of this message, and will be ready for you to specify the patch link setting.

* If two or more consecutive patch changes occur when you are selecting a patch on your multi-effects unit, the GR-20 will remember only the last-received MIDI program change. 5. Use the [BANK] knob and [NUMBER/VALUE] knob to select the synth sound in the GR-20 that you want to use with the effect you chose in step 4. 6. Repeat steps 4-5 to set as many links as you need.

7. Press the [EXIT] button.



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2. Use the NUMBER/VALUE knob to change the setting. * The actual mode of operation will not change until you store the setting and return to Play mode.

3. Press the [EXIT] button. You will return to Play mode, and the setting will be stored.

@@Don't turn off the power during this time. * The setting will not be stored if you turn off the power without returning to Play mode. * In Switch Mode 1, the GLIDE indicator and HOLD indicator will normally be lit; they will blink only while you press the pedal. * In Switch Mode 2, the GLIDE indicator and HOLD indicator will normally be unlit; however, when the function of each pedal is being changed by pressing the DOWN/S1 switch or UP/S2 switch, the indicators will behave the same way as they do in Switch Mode 1. Switch Mode 1 The GLIDE pedal operates the Glide function, and the HOLD pedal operates the Hold function.

Your GK pickup's UP/S2 switch and DOWN/S1 switch will move up/down through the patches. * This mode is selected when the GR-20 is shipped from the factory. Switch Mode 2 The HOLD pedal and GLIDE pedal will move up/down through the patches. You can use your GK pickup's DOWN/S1 switch and UP/S1 switch in conjunction with the pedals to perform the following operations. · When you press the DOWN/S1 switch, the GLIDE pedal will function as Octave Down and the HOLD pedal will function as Octave Up (TRANSCOPE).

When you press DOWN/S1 (or UP/S2) once again, the pedals will revert to the patch up/down function. · When you press the UP/S2 switch, the GLIDE pedal will function as Glide and the HOLD pedal will function as Hold. When you press UP/S2 (or DOWN/S1) once again, the pedals will revert to the patch up/down function. 1. Press the [SYSTEM EDIT] button enough times to get the SW MODE indicator to light. Saving Patches and System Parameter Settings on an External Device (BULK DUMP) Here's how you can save the user bank patches and the system parameter settings via MIDI on an external device or computer (sequencer). You can also transfer data via a MIDI cable directly between two GR-20 units. Sending GR-20 data in this way is called "bulk dump," and receiving this data is called "bulk load." What are System Parameters? Parameters that apply to the entire GR-20 (such as SW MODE and MIDI CH) are called "system parameters." 1.

Connect the GR-20's MIDI OUT to your external device's MIDI IN. 26 Chapter 4 Other Functions 2. Turn off the power of the GR-20, and then hold down the [PATCH EDIT] button while you turn the power on again. The display will indicate "dP." fig.4-03(DUMP) Loading Patches and System Parameter Settings From an External Device (BULK LOAD) Here's how GR-20 settings saved via Bulk Dump on an external device can be loaded back into the GR-20 via MIDI.

Performing the BULK LOAD operation will rewrite all the data in the GR-20. Be aware that all currently existing data will be lost. 1. @@3.

Begin recording on the external device that will receive the data. @@27) Ready state. 4. Press the [WRITE] button. The data will be transmitted from MIDI OUT to the external device.

@@@@The display will indicate "dP." 3. @@5. Stop recording on the receiving device. 6.

Turn off the power. 4. Transmit the data from your external device. @@5. Press the [WRITE] button. @@If necessary, perform the Bulk Load operation once again. 6. @@@@The selected MIDI CH will be used. Since the entire guitar will use only one channel, this lets you conserve MIDI channels. This also lets you control a sound module that is not able to receive six channels simultaneously.

* However, if two or more strings are sounding, bend data will not be transmitted; pitch change will occur only in semitone steps. This means that the pitch actually being played by the guitar will not be completely reflected by the synth sound. 1. Turn off the power of the GR-20, and hold down the [EXIT] button while you turn the power on again. MIDI Interface PC fig.5-03(Transmission Mode) fig.5-02(External Sequencer) MIDI IN MIDI OUT 2. Use the [NUMBER/VALUE] knob to select the mode. : MONO MODE * If you are connecting the GR-20 to a sequencer, turn "Local Control Off" (p. 30).

: POLY MODE 28 Chapter 5 Connecting an External Sound Module or Sequencer 3. Press the [EXIT] button. The setting will be stored, and you will return to Play mode. @@Don't turn off the power during this time. * If you turn off the power before returning to Play mode, the setting you made will not be stored.

MIDI Messages Transmitted by the GR-20 As performance data, the GR-20 transmits a note-on message when you play a note, a note-off message when a note stops, and pitch bend messages when you bend a note. In addition to these messages, the GR-20 also transmits the following MIDI messages so that your performance can be faithfully reproduced when recorded and played back by a sequencer. Setting the MIDI Channel (BASIC CHANNEL) * You can select only channels 1-16. Channels 12-16 are not available. * If the output mode is set to "Mono Mode," the GR-20 will use six channels starting with the channel you specify here.

1. Press the [SYSTEM EDIT] button a number of times until the MIDI CH/PLAY FEEL indicator lights. fig.2-03(MIDI CH) ENVELOPE FOLLOW If the RELEASE setting is E FLW (p. 20), MIDI control change number 18 (general purpose controller 3) will be transmitted according to the amplitude of the guitar string's vibration. GLIDE pedal MIDI pitch bend messages will be transmitted according to the change in pitch. HOLD pedal If the HOLD MODE is H1, H2, or H3 Outputting of MIDI note-off messages will be suspended as long as you continue pressing the pedal. If the HOLD MODE is H4 Control change number 64 will be transmitted. 2. Use the [NUMBER/VALUE] knob to change the setting.

Set the channel so it's the same as the MIDI transmit channel of your multi-effects unit. 3. Press the [EXIT] button. The setting will be stored, and you will return to Play mode. @@Don't turn off the power during this time. * If you turn off the power before returning to Play mode, the setting you made will not be stored. * In the case of Poly Mode transmission (p. 28), the Hold effect cannot be conveyed entirely because it cannot be processed independently for identical pitches played on different strings. Expression pedal Control change number 7 (Volume) or number 4 (Foot Type) is transmitted according to movements of the pedal. Program change This message is transmitted when you switch patches.

The sound bank is transmitted by MIDI Bank Select (CC#0), and the sound number is transmitted as a Program Change (PC). Specifying the Bend Range Since the GR-20 transmits Pitch Bend data based on a bend range of 24, you must set your sound module to a bend range of ± 24 . For details on making this setting, refer to the manual for your sound module. 29 Chapter 5 Connecting an External Sound Module or Sequencer Local Control Off The state in which the GR-20's guitar control section is internally connected to the sound generator is referred to as "Local Control On."



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" In contrast, the Local Control Off setting internally disconnects the GR-20's sound generator from the guitar control section, so that the sound generator will produce sound only in response to MIDI messages from MIDI IN.

The guitar performance will be transmitted only from MIDI OUT. fig.5-033(Local Control Off) * To turn Local Control on, turn the power of the GR-20 off, then on again. Sequencer Thru function to MIDI OUT: On MIDI OUT MIDI IN MIDI IN MIDI OUT Sound Generator Local Control OFF Guitar Controller GK IN GR-20 By selecting the Local Control Off setting and enabling the "Soft Thru" setting on your externally connected sequencer, you can avoid conflicts from occurring between the performance data from your guitar and from the sequencer. 1.

Turn off the GR-20, and then hold down the [SYSTEM EDIT] button while turning the power on again. The display will indicate "Lo" for approximately one second, and the GR-20 will then enter Play mode. fig.5-04(Local Off) * The Local Control Off setting cannot be stored. * If the connections between the GR-20 and your external MIDI device form a loop, you must use the Local Control Off setting. If you make connections with this setting On, switches will not function, and the system will not operate correctly. 30 Chapter 6 Appendices Restoring the Factory Settings (Factory Reset) If you want, you can get back all the settings and patches that the GR-20 had when you first took it out of the box; this process is called "Factory Reset." You can restore the entire GR-20 to the factory-set state, or restore an individual user patch to its factory-set state. -- : Only the specified patch will be returned to the factory settings. 3.

Press the [WRITE] button. The decimal point in the display will blink, the Factory Reset operation will be executed. Then you will return to Play mode. * Do not turn off the power while the decimal point is blinking. Calibration settings for the expression pedal (p. 31) will not be returned to the factory-set condition. This means that even if you execute Factory Reset, you don't need to calibrate the expression pedal again. Calibrating the Expression Pedal When the GR-20 is shipped from the factory, the expression pedal is calibrated for optimum performance. However, with extended use, or depending on the conditions of use, this calibration may drift. If you experience problems, such as being unable to use the volume pedal to silence the sound entirely, or if the pitch does not rise or fall through the full range specified, you can use the following procedure to recalibrate the expression pedal.

1. Turn off the power of the GR-20. Then hold down [EXP PEDAL] while you turn the power on again. The display will indicate "Pu." 2.

Fully release the pedal (applying pressure at the heel), and press the [WRITE] button. The display will indicate "Pd." 3. Depress the pedal completely (applying pressure at the toe), and press the [WRITE] button. The setting will be stored, and you will return to Play mode.

@@ Don't turn off the power during this time. * If you turn off the power before returning to Play mode, the setting you made will not be stored. When you execute Factory Reset, all data you currently have stored in the unit will be overwritten by the factory-default data. If the GR-20 contains important data that you want to keep, use Bulk Dump (p. 26) to save it on an external MIDI device before you execute a Factory Reset. 1. Turn off the GR-20, and then hold down the [WRITE] button while turning the power on again. fig.6-01(FACTORY RESET I) 2. Use the [NUMBER/VALUE] knob to select the range of data that you want to restore to the factory settings.

: The entire GR-20 will be returned to the factory settings. When you perform this operation, the guitar/bass setting will return to guitar mode (the default setting). If you want to use the GR-20 with a bass guitar, you'll need to follow the procedure described in "Switching the GR-20 between bass guitar and guitar operation (p. 32)" to switch the GR-20 back to bass guitar mode. 31 Chapter 6 Appendices Regarding GR-20 bass guitar support The GR-20 you purchased includes system program version 2, which allows the bass guitar range to be supported as well. By connecting a bass guitar that has a separately sold GK-2B or GK-3B divided pickup (for bass) installed, you can play the GR-20 from your bass guitar. When shipped from the factory, the GR-20 is set for use with a guitar. The procedure described below lets you switch the GR-20 between guitar and bass operation. * You may repeat this procedure as many times as you like. Furthermore, this procedure will not affect the user patch data.

Switching the GR-20 between bass guitar and guitar operation

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1. Switch off the GR-20. Then while holding down the [GK SENS] button, turn on the power. Shortly afterwards, the display will indicate " " or " ." 2. Use the [NUMBER/VALUE] knob to select bass guitar or guitar operation. · Bass guitar operation: · Guitar operation: Turn the [NUMBER/VALUE] knob toward the right (clockwise) to make the display read " ." · Turn the [NUMBER/VALUE] knob toward the left (counterclockwise) to make the display read " 3. Press the [EXIT] button.

The setting will be stored, and you will be in Play mode. * The decimal point of the display will blink while the setting is being stored. Do not switch off the GR-20's power while this takes place. * Please note that the setting will not be stored if you neglect to return to Play mode before you switch off the unit. * The setting is preserved until you repeat this procedure again. How the Bass Guitar and Guitar settings differ

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· The range of pitches produced by the GR-20 is switched between guitar and bass guitar ranges. · In some of the preset patches, this setting causes the actual pitch produced by the synthesizer to be one or more octaves above or below the pitch that is input. The same applies to user patches that you create based on these preset patches. (Example) BANK= BASS/GTR No= "Wood Bass" Bass Guitar operation Guitar operation The synthesizer will sound at the same pitch as the input. The synthesizer will sound one octave lower than the input.

· When setting the input sensitivity (GK SENS), the numbers shown in the left of the display correspond to strings as shown in the diagram below. You must install the GK-2B/3B pickup on your bass guitar as shown below. The system will not operate correctly if you install the pickup any other way. For a four-string bass: 5th string marker 4 3 2 1 For a five-string bass: 5th string marker 3 2 1 For a six-string bass: 5th string marker 6 5 4 3 2nd string marker 2nd string marker 2nd string marker 2 1 GK SENS Display 32 Chapter 6 Appendices Troubleshooting During Normal Performance Using the GR-20 Alone Playing your guitar does not produce a synth sound Could the OUTPUT LEVEL have been lowered? Use the rear panel [OUTPUT LEVEL] knob to raise the level appropriately (p.



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12).

Could the volume of the GK pickup be turned down? Raise the volume of the GK pickup to an appropriate level. Could the select switch of the GK pickup be set to GUITAR? Set the switch of the GK pickup to GK (or SYNTH) or MIX. Could the expression pedal be released? Depress the expression pedal. Could the LEVEL be turned down? Try turning the [LEVEL] knob (p. 20). Internal effects not applied to the guitar sound The GR-20's internal effects can only be applied to the synth sound. They cannot be applied to the normal guitar sound. By using the guitar out jack you can apply an external guitar effects processor only to the guitar sound. (If you want the synth sound and guitar sound to share a single amp, use the MIX IN jacks as well.) (p.

17) The pitch of the synth sound does not change in the same way as the pitch of the guitar The pitch of some tones (such as percussion instruments and sound effects) will change in a different way than the pitch of your guitar; it does not indicate a malfunction. You sometimes hear a thin, modulated noise in an extremely high frequency range This is a phenomenon known as "aliasing noise," unique to digital sound generators. You may hear this when playing a slide or when using the glide function. This does not indicate a malfunction. Volume is uneven among the strings Was the "GK SENS" setting adjusted correctly for each string? Perform the adjustment (p. 12). The pitch changes in half-steps when bending or etc. On some sounds (patches) such as piano or organ, the pitch will not change smoothly, but change only in semitone steps. This is done intentionally in order to make the instrument sound more realistic; it does not indicate a malfunction. When using Pitch Glide (or the pitch function of the expression pedal), the pitch does not rise all the way Depending on the tone or the region of pitch, the range of upward change may be restricted for functions that modify the pitch continuously.

Use a narrower range of change (p. 22, p. 23). Synth sound is delayed when you play from a bass guitar The GR-20 analyzes the output of the divided pickups, and produces the synth sound after the pitch and loudness have been detected. Due to the laws of physics, lower pitches take more time to analyze. This means that with a bass guitar, and its inherently lower pitches, you should expect that it may take longer for the synth sound to begin. When using the GR-20's pedal effects or expression pedal, the result is different for each patch The effect produced using the expression pedal is different for each sound (patch). Check the effect of each patch beforehand. 33 Chapter 6 Appendices When Using the GR-20 with other MIDI devices The external sound module connected to the MIDI OUT connector does not sound Do the MIDI channels of the transmitting and receiving devices match? Match the MIDI channels (p. 29).

Could you have turned down the volume using the volume control of the GK pickup or the expression pedal? Raise the controller or volume. When you view the note messages recorded in your sequencer, the pitches differ from what is actually sounded In order to convey the beginning of a note as quickly as possible, and to allow the pitch to change flexibly, the GR-20 transmits the pitch as a combination of note messages and pitch bend messages. This means that when you view only the note data using the event list ("microscope") screen of your sequencer, the data may appear to be different than the pitch that is actually sounded. Other The volume level of the instrument connected to MIX IN jack is too low. Could you be using a connection cable that contains a resistor? Use a connection cable that does not contain a resistor. Only one string sounds on the external sound module (some strings do not sound) Could you be using Mono mode to transmit from the GR20 to a sound module that is unable to receive six MIDI channels simultaneously? Use a sound module that supports multitimbral operation (p. 28). Use the GR-20 in Poly mode. Pitch is incorrect (different than the guitar pitch) Is the Bend Range of your external sound module set to +24? Set the Bend Range of your external sound module to +24. Is your guitar tuned accurately? Use the GR-20's Tuner function to tune your guitar accurately.

You must also adjust your guitar so that accurate pitches are sounded even on the high frets. Pitch does not change smoothly On the GR-20, could you have selected a patch such as piano or organ for which the pitch changes in semitone steps? Select a patch on the GR-20 whose pitch will change smoothly. 34 Chapter 6 Appendices Patch List BANK PIANO No 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 NAME Grand E.P Rock Piano Piano / Bass 4-Hand Piano Honky Tonk Piano & Strings Piano & Orchestra Piano & Choir Oohs Piano & Choir Aahs West Coast Ac.Piano Hard Rhodes Rhodes Phaser Rhodes Touch Sense E.P Soft Rhodes Smooth Rhodes Love E.P E.P / Bass Wide E.P Crystal Piano 1 Crystal Piano 2 Fantasy Piano Silky E.P Pad Detuned E. P Pad Chorus E.P Pad E.P & Strings E.P & Choir Great Rhodes GR Ballad Pulse E.P Shattering Dynamic Piano Minor Mood House Rock Organ 1 Rock Organ 2 Rock Organ & Pedal Organ Rock Organ & Wood Bass Rock Organ & E. Bass Purple Organ Rock Organ 3 Jazz Organ 1 Jazz Organ 2 Jazz Organ & Pedal Organ Jazz Organ & Wood Bass Jazz Organ & E. Bass Jazz Organ 3 Jazz Organ 4 Gospel Organ 60's Organ BANK ORGAN/ KB BASS/ GTR ORGAN/ KB No 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 NAME Glide Organ Cathedral Church Choir Rotary Choir Organ 3 Tone Stack Organ & Synth Strings Ice Organ Clavi Retro Clavi Phase Clavi JUNO Clavi JUNO Keys Harpsichord Baroque Piano Harpsichord & Strings New Harpsichord Accordion Asian Trance Bell Twinkle Milky Way D-50 Stack Dream Bell Drama Stack Staccato Heaven Heaven Choir Hybrid Synth Archimedes Wood Bass Wood Pick Bass Electric Bass Phased Bass Fretless Bass 1 Fretless Bass 2 Slap Bass Touch Wah Slap Bass FM Bass FM Bass + Low Flat Bass Synth Bass 2020 Bass Soft Reso Bass 101 Bass TB-303 Acid TB Wonder Bass Res Bass 1 Res Bass 2 Heavy System Bass Love Parade Bass Mix Bass MG Reso Bass Body Bass 35 Chapter 6 Appendices BANK BASS/ GTR BRASS No 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 NAME In Sync Throw up Basstortion Nylon Guitar Nylon Duet Nylon & Strings Nylon & Choir Ac.Guitar Ac.Guitar Oct Ac.Guitar + Low 12 Str Guitar 12 Str & Synth Strings 12 Str Heaven Guitar & Pad Feedback Whammy OD-Paradise Small Amp Dist Vib Digital Rock Guitar Orguitar Trumpet Trumpet Split Mute Trumpet Trombone Trombone Vib Tuba Horn Flugelhorn Tp Section Brass Section NewYork Brass Brass & Sax 1 Brass & Sax 2 French Horns 5th French Horns French Heaven Pat Brass Brassy Saws Poly Brass 1 Synth Brass 1 Xpensive Synth Brass Synth Brass 2 Synth Brass 3 Poly Brass 2 MG Brass Fat Synth Brass Breathly Brass Lee Brass Soft D-50 Brass Confident Lead Bright Synth Brass Brass It ! Synth Brass Chord Wacky Brass BANK WIND STRINGS /ORCH No 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 NAME Fat Tenor Sax Bright Tenor Sax Moody Sax Alto Sax Alto Sax Vib Soprano Sax Baritone Sax Sax Ensemble Sax Section & Baritone Sax Brass Section & Baritone Sax Sax Section Oct Harmonica Blues Harp OD Blues Harp Dist Piccolo Flute Attack Flute Piccolo & Glocken Flute & Glocken Piccolo & Flute Flute & Clarinet Growl Flute Synth Flutes Playback Flute Clarinet Clarinet Duet Oboe Bassoon Oboe & Bassoon Wind Ensemble Cresc.



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