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You can read the recommendations in the user guide, the technical guide or the installation guide for ROLAND E-60. You'll find the answers to all your questions on the ROLAND E-60 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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Roland®

E-60
MUSIC WORKSTATION
E-50
MUSIC WORKSTATION



Owner's Manual



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Manual abstract:

Dit product beantwoordt aan de richtlijn EMC 89/336/EEC van de Europese Unie. For the USA FEDERAL COMMUNICATIONS COMMISSION RADIO FREQUENCY INTERFERENCE STATEMENT This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. @@ Increase the separation between the equipment and receiver. @@@@This device complies with Part 15 of the FCC Rules. @@Unauthorized changes or modification to this system can void the users authority to operate this equipment. This equipment requires shielded interface cables in order to meet FCC class B Limit. For

Canada NOTICE This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations. AVIS Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada. For the U.K. IMPORTANT: THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE. NEUTRAL BLUE: BROWN: LIVE As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows: The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED. Under no circumstances must either of the above wires be connected to the earth terminal of a three pin plug. This product must be disposed of separately at your local waste recycling centre. Do not dispose of in household waste bin. The technology used in the E-60/E-50 is covered by patents pending in certain countries throughout the world.

r ENGLISH ENGLISH Owner's Manual ENGLISH Thank you for purchasing the Roland E-60/E-50 Music Workstation. The E-60/E-50 contains all major advantages a Roland instrument can offer: perfect accompaniments, high-class sounds, a D Beam controller (E-60), professional effects, the Cover functions of the acclaimed G-70, a Guitar mode... There's simply too much to mention in this introduction. Much care has been taken to facilitate access to all those countless functions, which is why the E-60/E-50 comes with a touch screen with 16 gray scale levels and a user interface that walks you through anything you may want to do with your E-60/E-50. To get the most out of the E-60/E-50 and to ensure many years of trouble-free service, we urge you to read through this Owner's Manual thoroughly. To avoid confusion, let's agree to use the word "button" for all keys on the front panel, and use "key" only when referring to the E-60/E-50's keyboard. To save space (and time), let us agree to use the word "song" when referring to Standard MIDI Files. Before using this instrument, carefully read the "Important notes" on p.

11. They provide information concerning the proper operation of the E-60/E-50. Be sure to keep this manual in a safe place for future reference. ENGLISH Copyright © 2006 ROLAND EUROPE. All rights reserved. No part of this publication may be reproduced in any form without the written permission of Roland Europe S.p.a. E-60/E-50 Music Workstation Features Features Roland's most comprehensive arranger instrument ever The E-60/E-50 is quite simply a superlative instrument with the most advanced and best sound generation technology Roland has to offer. It contains a superb internal sound source (based on the acclaimed Fantom-X series).

Superfast Recorder and comprehensive 16-track sequencer The E-60/E-50 provides two approaches for recording new song material: a Recorder function with a straightforward REC-START-STOP approach and a fully-featured 16-track sequencer with track-based and detailed microscope editing functions. Like many other functions on the E-60/E-50, the Recorder interacts with other sections: you can link a song to each User Program, you can cause any Standard MIDI File to be transposed automatically to a range that allows you to sing with ease, the chords of the songs you play back are recognized automatically and displayed, etc. New interface concept The E-60/E-50 was designed from the ground up to put its massive array of functions at your fingertips. The touch-sensitive screen and the large number of frontpanel buttons usually provide direct access to the available functions, thus doing away with the need to wade through countless menus. Parameters that belong together from a musician's point of view are usually located on the same or adjacent display pages, while setting them has been greatly simplified with respect to earlier arranger instruments.

Finder functions for songs, Music Styles and User Programs Another highlight of the E-60/E-50 is the fact that you can work with an almost unlimited number of songs, Music Styles and User Programs (in the internal memory, on memory card or floppy disk). Though there are still factory Music Styles, you can also work with "CUSTOM" links to accompaniments in the internal memory or on memory card, and even select such "external" Styles on the fly. The same high-speed access system is available for Standard MIDI Files (songs) and User Programs. Thanks to the clever Finder databases, the difference between what's internal and what resides in an "external" memory has become almost imperceptible. Cover functions and Makeup Tools for Standard MIDI Files and Music Styles Reorchestrating existing Standard MIDI Files and Music Styles has become a breeze thanks to high-quality Song and Style Cover presets and an intuitive, instrumentbased, set of MAKEUP TOOLS parameters that allow you to "revoice" your songs and Styles without spending hours editing single events.

The structure of Standard MIDI Files can be changed in real-time thanks to four programmable MARK & JUMP memories, which allows you to play extended versions of prerecorded songs. Play List function With the E-60/E-50's Play List function, you can program set lists for your performances. The advantage of such song chains is that you won't have to look for the desired songs on stage. Furthermore, you can already prepare the next song while the current one is still running (NEXT SONG function). Adaptive Chord Voicing technology The E-60/E-50's Arranger not only boasts a new structure (with 4 accompaniment levels, 4 Intros and 4 Ending phrases) but also relies on a more musical real-time conversion of the chords you play into meaningful accompaniment phrases.



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Roland's patent-applied-for ACV technology can indeed transpose Music Style parts in such a way as to eliminate unnatural jumps of strings lines, piano chords, etc. D Beam controller (E-60) The E-60 has the acclaimed D Beam Controller* for intuitive song and Style playback control and additional DJ-like effects via movements over an invisible beam of infrared light. And, of course, the BENDER/MODULATION lever is also there, as are sockets for optional footswitches and an expression pedal. (* D Beam technology licensed from Interactive Light, Inc.) Guitar mode The E-60/E-50 features a Guitar mode that allows you to play super-realistic electric and acoustic guitar parts.

Those parts can be used both alongside the Arranger (live applications) and recorded using the E-60/E-50's 16-track Sequencer/Recorder and the Style Composer. r 4 E-60/E-50 Music Workstation r Features ...and so much more Listing all of the E-60/E-50's advantages and functions would take another ten pages, while you must be dying to put it through its paces. That is why we would like to ask you to read this manual from cover to cover. You'll find that the

E-60/E-50 is quite unlike any other instrument you know. Have fun! 5 E-60/E-50 Music Workstation Features 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. 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 G 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. · Before using this instrument, be sure to read the instructions below, and the Owner's Manual.

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..... · Do not open or perform any internal modifications on the unit. · Do not excessively twist or bend the adapter 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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..... · This instrument, 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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· *Do not attempt to repair the E-60/E-50, 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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.... · *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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..... · *Never use or store the E-60/E-50 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* &m, *nor place heavy objects on the unit.*

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.. · *Never handle the adapter or its plugs with wet hands when plugging into or unplugging from, an outlet or this unit. ..*

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..... 211 r 10 E-60/E-50 Music Workstation r Important notes In addition to the items listed under "Using the unit safely" on p. 6, please read and observe the following: Power supply · Do not use this instrument on the same power circuit with any device that will generate line noise (such as an electric motor or variable lighting system). · Before connecting the E-60/E-50 to other devices, turn off the power to all units. This will help prevent malfunctions and/or damage to speakers or other devices.

· Although the LCD and LEDs are switched off when the POWER switch is switched off, this does not mean that the unit has been completely disconnected from the source of power. If you need to turn off the power completely, first turn off the POWER switch, then unplug the adapter from the power outlet. For this reason, the outlet into which you choose to connect the adapter's plug should be one that is within easy reach and readily accessible. Placement · Using the E-60/E-50 near power amplifiers (or other equipment containing large power transformers) may induce hum. To alleviate the problem, change the orientation of this instrument or move it further away from the source of interference.

· This instrument may interfere with radio and television reception. Do not use it in the vicinity of such receivers. · Observe the following when using the unit's floppy disk drive. For further details, refer to "Before using floppy disks (handling the floppy disk drive)". · Do not place the unit near devices that produce a strong magnetic field (e.

g., loudspeakers). · Install the E-60/E-50 on a solid, level surface. · Do not move the unit or subject it to vibration while the drive is operating. · Do not expose the E-60/E-50 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 E-60/E-50. · To avoid possible breakdown, do not use the E-60/E-50 in a wet area, such as an area exposed to rain or other moisture. · Do not allow objects to remain on the keyboard. This can be the cause of malfunction, such as keys ceasing to produce sound. · Never strike or apply strong pressure to the display.

· When connecting/disconnecting 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. · A small amount of heat will radiate from the E-60/E-50 during normal operation. This is perfectly normal. · To avoid disturbing your neighbors, try to keep the E-60/E-50's volume at reasonable levels. You may prefer to use headphones, so you do not need to be concerned about those around you (especially late at night). · When you need to transport the E-60/E-50, package it in the box (including padding) that it came in. Otherwise, you will need to use equivalent packaging materials or a flightcase. · Use only the specified expression pedal (EV-5, EV-7; sold separately). By connecting any other

expression pedals, you risk causing malfunction and/or damage to the E-60/E-50.

About the touch screen · Wipe off stains on the touch screen using ethanol, but do not allow the ethanol to soak into the joint of the upper fume and the bottom glass, for it may cause peeling or malfunction. Do not use organic solvents or detergents other than ethyl alcohol (ethanol). Before using floppy disks (handling the floppy disk drive) · Install the E-60/E-50 on a solid, level surface in an area free from vibration. If the unit must be installed at an angle, be sure the installation does not exceed the permissible range: upward, 2°; downward, 18°. · Avoid using the E-60/E-50 immediately after it has been moved to a location with a level of humidity that is greatly different than its former location.

Rapid changes in the environment can cause condensation to form inside the drive, which will adversely affect the operation of the drive and/or damage floppy disks. When the unit has been moved, allow it to become accustomed to the new environment (allow a few hours) before operating it. · To insert a disk, push it gently but firmly into the drive--it will click into place. To remove a disk, press the EJECT button firmly. Do not use excessive force to remove a disk which is lodged in the drive.

· Never attempt to remove a floppy disk from the drive while the drive is operating (the indicator is lit); damage could result to both the disk and the drive. · Remove any disk from the drive before powering up or down. · To prevent damage to the disk drive's heads, always try to hold the floppy disk in a level position (not tilted in any direction) while inserting it into the drive. Push it in firmly, but gently.



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Never use excessive force. · To avoid the risk of malfunction and/or damage, insert only floppy disks into the disk drive. Never insert any other type of disk. Avoid getting paper clips, coins or any other foreign objects inside the drive. Maintenance · For everyday cleaning wipe the E-60/E-50 with a soft, dry cloth or one that has been slightly dampened with water. To remove stubborn dirt, use a mild, non-abrasive detergent.

Afterwards, be sure to wipe the instrument thoroughly with a soft, dry cloth. · Never use benzene, thinner, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation. Repairs and data · Please be aware that all data contained in the instrument's memory may be lost when it is sent for repairs. 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.

Roland assumes no liability concerning such loss of data. Handling floppy disks · Floppy disks contain a plastic disk with a thin magnetic coating. Microscopic precision is required to enable storage of large amounts of data on such a small surface area. To preserve their integrity, please observe the following when handling floppy disks: · Never touch the magnetic medium inside the disk. · Do not use or store floppy disks in dirty or dusty areas. · Do not subject floppy disks to temperature extremes (e.

g., direct sunlight in an enclosed vehicle). Recommended temperature range: 10°~50°C (50°~122°F). Additional precautions · Please be aware that the memory contents can be irretrievably lost as a result of a malfunction or the improper operation of the instrument. · Use a reasonable amount of care when using the E-60/E-50's buttons, other controls and jacks/connectors.

Rough handling can lead to malfunctions. 11 E-60/E-50 Music Workstation Important notes · Do not expose floppy disks to strong magnetic fields, such as those generated by loudspeakers. · Floppy disks have a "WRITE" tab which can protect the disk from accidental erasure. It is recommended that the tab be kept in the PROTECT position and moved to the WRITE position only when you wish to write new data onto the disk. Rear side of the disk WRITE (you can save data to the disk) · Never remove the memory card or turn off the power while an operation such as reading or writing data or formatting is being performed on the memory card.

Doing so can destroy the data on the memory card and/or render the memory card itself unusable. · If you affix the write-protect label to the write-protect area of a SmartMedia™ card, you will not be able to format the card or write data to it. If you wish to format the card or write data to it, do so without the label affixed. For details on the write-protect sticker, refer to the owner's manual for your memory card. Protect tab PROTECT (you cannot save data) · Disks containing important performance data for this instrument should always be locked (have their write protect tab slid to the PROTECT position) before you insert them into the drive of another device. · The identification label should be firmly affixed to the disk. If the label comes loose while the disk is in the drive, it may be difficult to remove the disk. · Put the disk back into its case for storage. · If you attempt to format a card or write data to it when the writeprotect label is affixed, an error message will appear. In that case, either insert another card or remove the write-protect label.

· At power-on, do not remove/insert a card while the E-60/E-50 is updating its internal data (wait until the messages "Song database checking..." and "User Program database checking..." have disappeared). · Never turn on the power when a memory card is inserted partway into the slot. Doing so will damage the data in internal memory. Memory cards usable with the E-60/E-50 · The E-60/E-50 can use commercially available CompactFlash and SmartMedia memory cards.

You can purchase such cards at a computer shop or digital camera dealer. · Memory cards you purchase must meet the following conditions. · Power supply voltage: 3.3V · Capacity: 4, 8, 16, 32, 64, 128, 256, 512MB, 1GB, 2GB, 4GB (2GB and 4GB only with Microdrive) · The E-60/E-50 cannot use cards of types other than the above. Memory Backup · If the power to this unit is not switched on for an extended period of time, the contents of memory will be lost and the unit will revert to its factory defaults. To avoid the loss of important data that has been placed in memory, a backup of your data should be periodically created (see p.

184). Before using memory cards · Some data cards are equipped with a PROTECT switch, which when turned on protects your data from accidental erasure. (The E-60/ E-50 also has such a switch.) It is recommended that the switch be kept at the ON position and switched to OFF only at the times you wish to write new data onto the card. Electromagnetic radiations · Electromagnetic radiations may cause a deterioration of audio performances.

Such possible deterioration consists in an audio signal being emitted. On ceasing the electromagnetic noise, the emission of the audio signal will simultaneously stop. Liability and copyright · Unauthorized recording, distribution, sale, lending, public performance, broadcasting or the like in whole or in part, of a work (musical composition, video, broadcast, public performance or the like) whose copyright is held by a third party is prohibited by law. · Do not use this unit for purposes that could infringe on a copyright held by a third party. Roland assumes no responsibility whatsoever with regard to any infringements of third-party copyrights arising through your use of this unit. On Off r · This unit's memory card slot accepts CompactFlash and SmartMedia™ (3.3V) memory cards. Microdrive storage media are compatible. (You need a commercially available adapter plug for SmartMedia™ cards.) · Carefully insert the memory Card all the way in--until it is firmly in place.

· Never touch the terminals of the memory card. Also, avoid getting the terminals dirty. · CompactFlash and SmartMedia (3.3V) cards are constructed using precision components. Handle the cards carefully, paying particular note to the following. · To prevent damage to the cards from static electricity, be sure to discharge any static electricity from your own body before handling the cards. · Do not touch or allow metal to come into contact with the contact portion of the cards. · Do not bend, drop or subject cards to strong shock or vibration. · Do not keep cards in direct sunlight, in closed vehicles or other such locations (storage temperature: 25~85°C).



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· Do not allow cards to become wet.

· Do not disassemble or modify the cards. · SmartMedia is a trademark of Toshiba Corp. · Compact Flash and are trademarks of SanDisk Corporation and licensed by CompactFlash association. Roland Corporation is an authorized licensee of the CompactFlash™ and CF logo trademarks. · All product names mentioned in this document are trademarks or registered trademarks of their respective owners.

12 E-60/E-50 Music Workstation r Front panel I. Panel descriptions Front panel Note: You can press and hold most buttons to jump to an associated display page. E C D F G H A B newly selected song automatically, press this button. If the [PLAY≠LIST] button lights, this button allows you to select the next song of the selected List. [MINUS≠ONE] button: Press this button to switch off the part you want to play (or sing) yourself.

The part to be muted is selectable (page 38). [16-TRK≠SEQ.] button: Press this button to access the E-60/E-50's sequencer (MIDI recorder). This sequencer goes way beyond anything you may know from previous Roland arranger instruments (see p. 123). [∅], [°], [∅], [PLAY÷STOP≠@÷°]: These buttons allow you to return to the beginning of the current song, "rewind" or "fast-forward" in one-measure steps and to start and stop playback of the selected song. Press the [REC≠] button to record a new song (see p. 41). F STYLE section These buttons allow you to select one of the 8 Music Style families. The button of the selected family lights.

G STYLE CONTROL section Use these buttons to select the desired Music Style pattern and to start/stop Music Style playback (see p. 22). H TEMPO section [METRONOME] button: Press this button to switch the internal metronome on or off. The remaining buttons ([TAP], [SLOW], [FAST@]) allow you to set the tempo of the metronome, the Arranger or the recorder/sequencer. A MASTER VOLUME knob Use this knob to set the E-60/E-50's global output volume (all sections). The setting of this knob also determines the volume in the headphones you may have connected. B MASTER BALANCE knob This knob allows you to set the balance between the Arranger or song parts ("ACCOMP") and the solo sounds ("KEYBOARD"). C D Beam controller (E-60) This controller allows you to influence the timbre of the notes you play, to control song playback and to create some unique effects. All you need to do is move your hand up/down or left/right above the two "eyes". The buttons below it allow you to assign the desired function to the D Beam controller.

See p. 51. D MARK JUMP section These buttons ([1]~[4]) allow you to jump to one of four stored locations inside the currently selected song. You can program the desired locations for songs that do not yet contain them. E RECORDER section [PLAY≠LIST] button: Press this button to access the display where you can select a list of songs to be played back, edit existing lists, program new ones, etc.

When the indicator of this button lights, [∅], [°], [∅], [PLAY÷STOP≠@÷°] are used to control playback of the current song. [NEXT≠SONG] button: You can already load a new song while the current Standard MIDI File is still playing. If you want the Recorder to start playback of the 13 E-60/E-50 Music Workstation Panel descriptions M I J K L N O P Q I MUSIC ASSISTANT button Press this button to access the MUSIC ASSISTANT environment where you can select Music Style registrations for a given song you want to play. You can also program your own Music Assistant registrations. J LYRICS & SCORE button Press this button if you want the lyrics contained in the songs to appear in the display.

At the same time, the chords of the notes played by the song parts will also be displayed. This, however, is information that is "extracted" (derived) in realtime by the E-60/E-50. This function can even display the notes of the selected part as a score. K MIXER button This button provides access to display pages where you can set the level, pan and effects send levels of the E-60/E-50's parts (KEYBOARD, SONG and STYLE). L DISK & MEDIA button Press this button if you wish to save/load data from the internal memory, a floppy disk, or PCM/CIA card. You will also find data management functions here, like deleting files, formatting floppies or cards, etc. (page 175). M LCD CONTRAST knob Use this knob to adjust the display's contrast if it is difficult to read. The display itself is a touch screen and therefore needs to be clear at all times (so that you know what you are doing). Note: The display may take some time to warm up.

That is why you may have to change the contrast several times after powering on. P MENU button Press this button to call up a menu that provides access to more in-depth E-60/E-50 functions you may only wish to set from time to time. Q EXIT button Press this button to return to the previously selected display page or the E-60/E-50's main page. r N COVER button This button provides access to pre-programmed templates that allow you to quickly modify a song's or Music Style's character. Press it once or twice to select the Song or Style level. See pages 38 and 63. O MAKEUP TOOLS button Press this button to modify the settings of the current song or Music Style, if the pre-programmed Cover settings do not provide what you're looking for. See page 102. 14 E-60/E-50 Music Workstation r Front panel Note: You can press and hold most buttons to jump to an associated display page. R S T U V R DATA ENTRY section The dial can be used to set the value of the parameter field that is currently highlighted.

Turn it to scroll through the available settings. You can also press it to call up a numeric key pad that allows you to enter the desired value by pressing the corresponding fields in the display. To change the selected value in small steps, press [DEC] (lower value) or [INC] (higher value). The [β][∅][@][∅] buttons are used to select a parameter for editing (something you can also do by pressing the corresponding display field). While the main page is displayed, the [DATA÷ENTRY] dial and [DEC]/[INC] buttons also allow you to set the tempo.

S FINDER section Press one of these buttons to quickly locate songs ([SONG]), Music Styles ([STYLE]) or User Programs ([USER≠PRG]) in the internal memory, on floppy disk or an external memory card. See pages 35, 73 and 90. T TONE section The TONE buttons allow you to select one of 8 internal Tone families. You can then use the display to specify the desired sound within that family. U USER PROGRAM section These buttons allow you to select the desired User Program (registration memory).

Press the [LIST] button to call up the display page where you can select the desired User Program and save your current panel settings to a User Program. You can also select the previous ([DOWN]) or next ([UP]) User Program.



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By pressing these two buttons simultaneously, you leave the User Program environment. The [HOLD] button allows you to ignore several settings of subsequently loaded User Programs (see p. 92). V EASY SETTING section This key pad allows you to reconfigure the E-60/E-50 by pressing just one button: [ARR] (use the Arranger in split mode), [ORGAN] (the name says it all), [GUITAR] (select the E-60/E-50's Guitar Mode,), and [PIANO] (assign a piano sound to the entire keyboard). See also page 45. W Y a X Z W KEYBOARD PART section The TONE ASSIGN buttons are used to specify the Keyboard part you wish to assign a different sound to page 27. "Keyboard parts" are the parts you can play yourself. The E-60/E-50 contains many other parts that are played "automatically" by the Arranger or Recorder.

The PART ON/OFF buttons allow you to switch the desired Keyboard parts on and off. X DEMO button Press this button whenever you want to listen to the E-60/E-50's demo songs (see p. 20). Y TONE EFFECTS section Press the [MULTI~~FX~~] button to add a different effect to the Keyboard parts (page 84). (This processor is also available for the D Beam and the MELODY INTELL parts.) Note: The D Beam controller and part are only available on the E-60. Press the [MELODY~~INTELLIGENCE~~] button (so that it lights) to add an automatic counter-melody (second and third voice) to your solos or melodies (see p. 62). Z TRANSPOSE button Press this button to transpose the E-60/E-50 up or down in semitone steps using the controls shown in the display. You can also specify which parts are to be transposed (page 48).

a ONE TOUCH section These buttons allow you to select the desired One Touch memory. There are four memories per internal Music Style and the 80 Custom memories. They work a lot like the User Programs, because they assign different sounds and effects settings to the Keyboard parts and carry out some other changes. See page 65. b V-LINK button Press this button to take advantage of the E-60/ E-50's V-LINK functionality for controlling video material via certain performance functions and the right-most keys on the E-60/E-50's keyboard.

By using V-LINK-compatible video equipment, visual effects can be easily linked to and made part of the expressive elements of a performance. By connecting the E-60/E-50 to an optional Edirol DV-7PR or V-4, you can switch images in synchronization with music or use the E-60/E-50's performance functions or right-most keys to switch clips, control playback speed, etc. 15 E-60/E-50 Music Workstation Panel descriptions c d e c POWER ON button Press this button to switch the E-60/E-50 on and off. If you need to turn off the power completely, first turn off the power switch, then unplug the power cord from the wall outlet. Refer to "Switching the E-60/E-50 on/off" on p.

19. d BENDER/MODULATION lever When pushed towards the back of the E-60/E-50, this lever will add modulation to the notes of the Keyboard parts you are playing at that time. Move it to the left or right to temporarily lower or increase the pitch of the Keyboard part notes you are playing. For the sounds of the TONE [ORGAN] family, you can use the Modulation axis to alternate between the fast and slow Rotary speeds. e PHONES 1 & 2 sockets This is where you can connect two pairs of optional headphones (Roland RH-25, RH-50, RH-200 or RH-300). f Floppy disk drive This is where you can insert 2DD or 2HD floppy disks for external storage of your Music Styles, Recorder songs, User Programs, and MIDI Sets. Press the eject button to remove the disk from the drive. Note: Do not remove the floppy disk while the E-60/E-50 accesses the disk (to load/save data, etc.). Doing so may damage both the floppy disk and the drive's head.

r 16 E-60/E-50 Music Workstation r Front panel Rear panel A PCMCIA USB OUT MIDI IN HOLD B C DC IN 12V 2.5A USE ROLAND PSB-4U ADAPTOR ONLY D FOOTSWITCH/ EXPRESSION R E OUTPUT L/MONO F G H I H HOLD socket An optional DP-2, DP-6, or BOSS FS-5U footswitch connected to this socket can be used for holding the Keyboard-part notes. (The Melody Intell part can also be sustained in this way.) This function is also referred to as "Sustain" or "Damper". I Cord hook After connecting the adapter cable, wind it around the cord hook to the right of the socket to prevent accidental power disruptions. A PCMCIA slot This is where you can insert a memory card (PCMCIA, CompactFlash, SmartMedia™ or Microdrive). Memory cards that are not PCMCIA cards can only be connected if you use an appropriate adapter (available at your computer store). See also the precautions on p. 12. B Internal memory protect switch This switch allows you to lock (, protect) and unlock () the internal memory.

See page 19. C DC IN connector This where you need to connect the supplied PSB-4U adapter. If it is damaged or out of order, be sure to replace it with the same PSB-4U model. Do not use other adapters as these may damage your E-60/E-50 beyond repair. D FOOTSWITCH/EXPRESSION socket Connecting an optional DP-2, DP-6 or FS-5U to this socket allows you to control an assignable function by foot.

Alternatively, you can connect an optional Roland EV-5 or FV-300L expression pedal to this socket that can be used for setting the volume of the selected parts by foot. E OUTPUT R, L/MONO sockets These sockets need to be connected to an external amplifier, mixing console, etc. They transmit the music generated by the Arranger, Recorder and Keyboard parts. F USB port The USB port can be used for archiving purposes and MIDI data transfer from/to a computer. G MIDI OUT/IN sockets These sockets allow you to connect the E-60/E-50 to external MIDI devices for a variety of applications: receiving song data in realtime from an external sequencer, transmitting your playing (and the data of the song you are playing back) to an external sequencer, using the E-60/E-50 as master keyboard in your MIDI setup, etc.

Note: The MIDI functions can be accessed via the E-60/E-50's Menu (page 187). Frequently used MIDI settings can be written and recalled as "MIDI Sets". 17 E-60/E-50 Music Workstation Setting up and demo songs 2. Setting up and demo songs You must be dying to try out your new E-60/E-50 to see what it is capable of. We'll get to that in a minute. But first we need to connect it. Connections The E-60/E-50 contains internal speakers. You therefore don't need to connect it to an external amplifier (Roland's KC series, for example). But you can also use optional headphones (Roland RH-25, RH-50, RH-200 or RH-300, for example). Be sure to switch off both the E-60/E-50 and the external devices you want to connect before making or breaking audio and/or MIDI connections.

If you do not have access to the sound system of the venue where you are performing, ask the local engineer to set the volume to the minimum level. Mixing console, keyboard amplifier, active speakers --OPTIONAL-- Footswitch (DP-2, DP-6, or BOSS FS-5U) Expression pedal (EV-5, EV-7) d Rolan --or-- To wall outlet EXPRESSION/ FOOTSWITCH Footswitch (DP-2, DP-6, or BOSS FS-5U) OUTPUT R, L/MONO HOLD Stereo headphones (RH-25, RH-50, RH-200 or RH-300) Stereo headphones (RH-25, RH-50, RH-200 or RH-300) r Note: Except for the adapter, all other items shown above are optional.



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See your Roland dealer for details. 18 E-60/E-50 Music Workstation r Front panel Switching the E-60/E-50 on/off After connecting the E-60/E-50 to the other devices, proceed as follows: Internal Memory Protect After unpacking your E-60/E-50 and before switching it on you need to defeat the protection of its internal memory (a solid-state hard disk) if you intend to save data in the internal memory. · Slide the switch to the " " position to unlock the memory. (To once again lock the internal memory, slide the switch back to the " " position.) Switching on the E-60/E-50 (1) Insert the included power cable into the AC inlet and then plug it into an electrical outlet. (2) Press the E-60/E-50's [POWERON] button located to the left of the keyboard to switch it on. (3) If you connected the E-60/E-50 to a mixing console, switch it on now. (4) Switch on the amplifier, your active speakers or the keyboard amplifier(s). (5) Use the MASTER [VOLUME] knob to set the E-60/E-50's output volume. MAS VOLUME Setting the display contrast The information in the LCD display may be difficult to view after turning on your E-60/E-50 or after extended use. Your viewing angle or the current lighting conditions can also affect the appearance of the display. In such cases, use the [LCDCONTRAST] knob to the left of the display to adjust the contrast. Switching off the E-60/E-50 (1) Switch off all external devices.

(2) Use the E-60/E-50's [POWERON] button to switch it off. Note: If you need to turn off the power completely, first turn off the POWER switch, then unplug the power cord from the power outlet. Be sure to wait 2~3 seconds before switching the E-60/E-50 back on. 19 E-60/E-50 Music Workstation Setting up and demo songs Interactive demo of the E-60/E-50 Your E-60/E-50 contains an interactive demo that introduces all of its highlights. It might be a good idea to try it out now.

The demo is self-explanatory, so we'll just show you how to start and stop it. (1) Press the [DEMO] button. (4) If you can barely hear the music, set the [VOLUME] knob (far left, MASTER section) to a higher level. DEMO MAS VOLUME The display changes to: (5) To stop the demo and leave the E-60/E-50's Demo function, press the [DEMO], RECORDER [PLAYSTOP] or the [EXIT] button. EXIT (2) If necessary, press the [LANGUAGE] field and select the language for this interactive demo function. (Press [CLOSE] if you didn't mean to select this page. The current language selection will not change.) (3) Press the field that provides access to the desired demo function. There are 8 sound and 8 Style demo songs. r 20 E-60/E-50 Music Workstation r Front panel The main page When you leave Demo mode (or any other display page) or if you do not change any of the E-60/E-50's settings, the display looks more or less as follows: A B C The TRANSPOSE field H, finally, calls up the display page where you can transpose one, several or all sections (this depends on the mode you select on that page).

This field duplicates the function of the [TRANSPOSE] button. When the E-60/E-50's Guitar mode is on, the display looks as follows: D E F G H F I The information shown here depends on the E-60/E-50's current settings, the data you loaded, etc., but the above illustration should be fairly close to what you see on your instrument. Almost all information displayed is assigned to fields you can press to jump to a different page, set a parameter or select a parameter for editing. Pressing field A, for instance, takes you to the ARRANGER SETTING page. Press B if you want to change the split point settings. The [SONG] and [STYLE] buttons C look different and therefore also behave differently: press one of them to select the section whose tempo should be displayed. (You can change the tempo value of the selected section using the [SLOW][FAST] and [TAP] buttons after stopping playback.) They do not allow you to switch from Style to Song mode, however, because that is handled automatically depending on whether the [PLAYSTOP] or [STARTSTOP] button currently lights. Note: While on the main page, you can also set the tempo using the [DATAENTRY] dial and the [DEC]/[INC] buttons.

Pressing the I field takes you to the GUITAR MODE page. Note that this field can either contain an electric guitar or an acoustic one to indicate the kind of instrument you selected. This field duplicates the function of the [GUITAR] button. As you see, there is a lot you can control without having to wade through endless menus. Note: If the main page does not appear automatically, you can return to it by pressing the [EXIT] button once or several times.

General note about the E-50's menu When you press the E-60's [MENU] button, the display looks as follows: The fields indicated by D take you to a page where you can select songs (SONG), Music Styles (STYLE) or User Programs (USER PROG). These fields have the same functions as the buttons of the same name in the FINDER pad. The OCTAVE button icons E allow you to shift the tuning of the currently selected Keyboard part (indicated by an arrow). To select a Keyboard part, press its TONE ASSIGN button. The remaining fields F allow you to select the Keyboard part you wish to assign another sound to and recalls the TONE SELECT page.

They duplicate the functions of the (KEYBOARD PART) TONE ASSIGN buttons. The SCALE TUNE field G takes you to a page where you can change the tuning of the E-60/E-50's notes (so as to be able to use Arabic scales, for example). The E-50, on the other hand, doesn't have a D Beam controller, which is why its MENU page looks as follows: 21 E-60/E-50 Music Workstation Quick Start 3. Quick Start In this chapter, we will scratch the surface and walk you through the major functions. C Recorder section: That's how it's called on the front panel, so we'll stick to it. This section actually encompasses a 16-track sequencer, a straightforward MIDI recording function and a very sophisticated Standard MIDI File player with a host of all realtime control functions. The general idea Your E-60/E-50 is several instruments in one. There are three main sections you can use for playing live. A Keyboard parts: This section consists of parts you need to play via the keyboard, hence the name "Keyboard". The E-60/E-50 provides five Keyboard parts, four of which can be used simultaneously: UP1, UP2, LWR and MBS.

"UP" stands for "Upper" and refers to the right half (if there is a split). "LWR" refers to "Lower" and thus to the left half. "MBS" is short for "Manual Bass", i.e. a monophonic bass part whose notes depend on the chords you play. There is no Manual Drum part, because any of the parts just mentioned can be used to play a Drum Set.



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The fifth part, "MELODY INT", is what computer buffs would call a "cross-platform part": it belongs to the Keyboard section but it is in part controlled by the Arranger. See "Melody Intelligence" on page 62. B Arranger/Style section: Playing to an automatic accompaniment Let us begin with the automatic accompaniment function, which is called "Arranger" and often referred to as "Style" in the display and on the front panel. The Arranger is an interactive "playback sequencer" that provides the accompaniments.

These accompaniments are called "Music Styles", because the musical phrases ("patterns") they play concentrate on a given musical genre (Rock, Pop, Dance, Waltz, etc.). The Arranger allows you to transpose the melodic accompaniment parts (bass, piano, guitar, etc.) simply by playing chords. In most instances, you will probably do so with your left hand.

Each Music Style comprises several patterns, so that you can vary the accompaniment by starting with an introduction, using a simple accompaniment for the verses, a more elaborate one for the choruses and by ending your songs with an "Ending" pattern. Let us first look at the most important aspects for operating the Arranger: (1) Connect and switch on the E-60/E-50 (see pages 18 and 19). (2) Press the EASY SETTING [ARR] button. Left hand: Arranger control Right hand: melody (Keyboard parts) Left hand: Arranger control Right hand: melody (Keyboard parts) ARR ORGAN r The Arranger is your backing band. It plays an accompaniment (called Music Style).

In a way, the Arranger works like a drum machine because it uses accompaniment patterns. Unlike a drum machine, however, you can easily select the desired pattern while playing. So you do not need to program the order in which you intend to use the patterns. Furthermore, the Arranger not only provides a rhythm section but also chords, guitar and synthesizer riffs and so on. The accompaniment can be transposed in realtime. All you have to do is play a different chord (usually with your left hand). The button lights and the keyboard is split into two halves. The left half can be used to play chords, while you can play melodies in the right half. (3) If the [SYNC] button lights (which is probably the case), press it to switch it off. SYNC 22 E-60/E-50 Music Workstation r Playing to an automatic accompaniment (4) Set the MASTER [VOLUME] knob to a reasonable level (e.

g. about "1/4"). · For seventh chords, playing the root and the second key to its left is enough. C major C minor MAS VOLUME Only the key that corresponds to the chord's name. C7 Root note + third key to the right. (5) Press the [MAIN] button (it lights). Root note + second key to the left. Note: The function that takes care of this easy fingering is called "INTELLIGENT" (page 67). See also p. 209 for a list of other chords that can be played using this system (augmented, diminished, etc.

). (6) Play a chord in the left half of the keyboard, then press the STYLE CONTROL [START÷STOP] button. START STOP What you hear now is the "MAIN I" pattern (the [MAIN] and VARIATION [1] buttons light). This is the simplest accompaniment of the selected Music Style. Let's listen to the accompaniment you could use for your choruses: (8) Press the VARIATION [2] button (the [MAIN] and [1] buttons light and [2] flashes).

The [START÷STOP] button lights and the Arranger starts playing the accompaniment of the currently selected Music Style (called "Strummlin' Pop"). The accompaniment pattern is sounded in the key that corresponds to the note you played (C). The name of the corresponding chord is displayed in the upper left-hand corner of the display: At the end of the VARIATION [1] pattern, the VARIATION [2] button lights steadily and the Arranger plays a different accompaniment. (9) Now try out Variations 3 and 4. Professional transitions: Fill In So far, we have only used the main accompaniment patterns (i. e. the phrases that are repeated over and over until you stop the Arranger). The various variations can be used for verses (1), second verses (2), choruses (3 & 4) and other song parts. Switching between these patterns is a matter of pressing the VARIATION [1]~[4] buttons. Yet, that produces instant changes of the accompaniment, while "real" musicians tend to "announce" new song parts by means of roll in the drums or slightly different accompaniment notes. The E-60/E-50 allows you to make such "announcements" in the following way: (1) Start playback of the MAIN [1] pattern (see above). (2) Play a chord in the left half of the keyboard. Note: See "Song/Arranger Start Priority" on p. 196 if Arranger playback does not start. (7) Play another chord in the left half of the keyboard.

The same pattern is now played in that key. You don't even have to play full chords: · For major chords, playing just the root note is enough (e.g. "C" for C major, "A" for A major, etc.) · For minor chords, playing the root note and the third key to its right will do. 23 E-60/E-50 Music Workstation Quick Start (3) Press the [AUTO÷FILL÷IN] button (it lights). (3) Press the [INTRO] and the numeric button [1]~[4] that corresponds to the Intro pattern you want to use. (4) Press a VARIATION [1]~[4] button to select another MAIN pattern. The [MAIN] button and the selected VARIATION [1]~[4] button flash. What happens now depends on when you press this button: · If you press it on any beat before the last of the current bar, the Arranger plays a Fill-In pattern that lasts until the end of the current bar.

It then changes to the newly selected pattern (at which point [MAIN] and the selected numeric VARIATION button light steadily). · If you press it on the last beat of the current bar, the Fill-In will start on the next downbeat and last an entire bar, after which the Arranger automatically selects the new pattern. If you press the same numeric button ([1]~[4]) again, the Fill-In is played according to the above rules. But when it finishes, the Arranger returns to the pattern you had been using up to that point. (5) Switch off the [AUTO÷FILL÷IN] button if you do not want the next pattern change to be preceded by a Fill-In. Note: The length of a Fill-In can be halved. See "Half Bar on Fill In" on p. 55. (4) Press the [START÷STOP] button to start Arranger playback. The Arranger plays the introduction of the currently selected Music Style.

The "MEASURE" field on the main page now counts backwards ("4", "3", etc.) to indicate the Intro's duration. If you like, you can now try out the remaining three Intro patterns by pressing [INTRO] and [1]~[4]. The number refers to the degree of complexity. Note: Do not play while the Intro is running.



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