

Roland®

EXPRESSION PEDAL EV-7

OWNER'S MANUAL

Thank you for purchasing ROLAND EV-7 EXPRESSION PEDAL.

■ FEATURES

- The EV-7 expression pedal is for use exclusively with keyboards, synthesizers, and organs that feature internal expression circuitry.
- The EV-7 features a longer stroke than that available previous expression pedals, allowing greater dynamic expression for your performances.
- The pedal includes a minimum volume setting. The minimum volumes for your performances can be set however you wish, so you may thus alter the volume control range to suit any performance.
- Rubber feet allowing you to change the unit angle (three angles possible) are also included.

■ CONNECTION

Minimum Volume Knob



*When connecting or while in use, do not pull or yank the cord with force, as doing so may result in breakdown.

■ OPERATING THE UNIT

1. Connect the EV-7 with the keyboard as shown in "CONNECTION."
2. Press the pedal down as far as it goes, and set the maximum volume using the volume knobs of the keyboard.
3. Return the position of the pedal to the highest position, and set the minimum volume by using the Minimum Volume Knob on the EV-7.
4. You can operate the pedal to control the keyboard, synthesizer, or organ volume and the volume range set with the EV-7's minimum volume setting. ...

■ SPECIFICATIONS

Main Volume Pedal

Minimum Volume Knob

Stereo Plug Cord (2 m)

Dimensions: 138 (W) x 298 (D) x 98 (H) mm
5-7/16 (W) x 11-3/4 (D) x 3-7/8 (H) inches

Weight: 1.2 kg / 1 lbs-11 oz

Accessory: Rubber Feet & 2, Owner's Manual

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

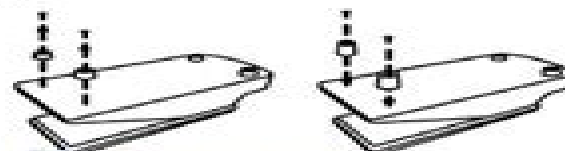
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Before using this unit, carefully read the sections entitled: "USING THE UNIT SAFELY" and "IMPORTANT NOTES". These sections provide important information concerning the proper operation of the unit. Additionally, in order to feel assured that you have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

■ CHANGING THE UNIT ANGLE

1. Use a Phillips head screwdriver to remove the two rubber feet attached to the EV-7.
 2. Using the same screws used to hold the original pair of rubber feet, attach the other included set of rubber feet.
- * Be sure to use only the screws that are used to hold the original pair of rubber feet. Using other screws may result in damage to the unit.



■ IMICRA POTS

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

*This expression pedal is designed exclusively for use with products from Roland / Boss corporation. Do not connect it to a product not from Roland / Boss corporation, as doing so may result in breakdown.

Placement

*Do not expose the unit to direct sunlight, place it near devices that radiate heat, leave it inside an enclosed vehicle, or otherwise subject it to temperature extremes. Also, do not allow lighting devices that normally are used while their light source is very close to the unit (such as a piano light), or powerful spotlights to shine upon the same area of the unit for extended periods of time. Excessive heat can deform or discolor the unit.

*To avoid possible breakdown, do not use the unit in a wet area, such as an area exposed to rain or other moisture.

Maintenance

*For everyday cleaning wipe the unit with a soft, dry cloth or one that has been slightly dampened with water. To remove stubborn dirt, use a cloth impregnated with a mild, non-abrasive detergent. Afterwards, be sure to wipe the unit thoroughly with a soft, dry cloth.

Additional Precautions

*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.

*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.

Roland Ev 7 Owners Manual

J Dewey



Roland Ev 7 Owners Manual:

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a four quadrant or multiple quadrant operation is required in industrial as well as commercial applications these applications require both driving and braking i.e. motoring and generating capability some of these applications include electric traction systems cranes and lifts cable laying winders and engine test loading systems

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speed control of a machine is the most vital and important part in any industrial organization this paper is designed to develop a four quadrant speed control system for a dc motor using microcontroller the motor is operated in four quadrants i.e. clockwise counter clockwise forward brake and reverse brake

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paper proposes a way to govern the rate and route control of a dc motor with the help of a 4 quadrant dc/dc chopper the speed under the base velocity may be controlled by way of armature voltage manage technique mosfets are used for the switching operation of the chopper the gates of those mosfets are given pwm

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the four quadrant chopper block represents a four quadrant controlled chopper for converting a fixed dc input to a variable dc output the block contains two bridge arms each bridge arm each has two switching devices options for the type of

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3 four quadrant operation of dc motor four quadrant operation or mode of any dc motor means that machine operate in four

quadrants they are forward breaking mode forward motoring mode reverse breaking or stop mode and reverse motoring mode a motor operates in two modes motoring and breaking a motor drive capable of

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this paper gives a control for three phase brushless dc bldc motor in all four quadrant operation the control system in this paper is capable to detect and identify the rotor position by sensor signal 1 in this paper behaviour of bldc motor is studied in all four quadrant operations through simulation model

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may 11 2021 a four quadrants dc chopper fqdc has been developed to work with a series motor for the application of dc drive electric vehicle in previous work capable of operating in such driving conditions and offers several types of chopper operation modes such as driving and reverse regenerative and resistive braking generator mode field weakening

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aug 8 2020 1 answer sorted by 1 you can think of the first quadrant operation as being a buck converter down from the supply to the motor you can think of the second quadrant as being a boost converter from the motor s generated low voltage up to the supply voltage

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put simply the four quadrants that the controller can work in are 1 motor going clockwise controller applying clockwise drive 2 motor going anti clockwise controller applying anti clockwise drive 3 motor going clockwise controller applying anti clockwise drive 4 motor going anti clockwise controller applying clockwise drive

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four quadrant operation of dc motor means that the machine operates in four quadrants they are forward braking forward motoring reverse motoring and reverse braking a motor operates in two modes motoring and braking

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1 to observe the four quadrant operation of a dc motor 2 to control a motor under torque control 3 to couple the speed

control motor and torque controlled motor and observe the effect of a stepped torque 6 2 four quadrant operation of a dc motor the four quadrant operation is performed by giving an alternating reference speed command to

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aug 16 2021 the four quadrant operation of the motor can be described as follows quadrant i in the first quadrant the developed power by the motor is positive thus the motor operates in motoring mode and converts electrical energy into mechanical energy therefore the operation of the motor in first quadrant is called forward motoring quadrant ii

four quadrant operation and control of three phase bldc motor without - Aug 08 2022

the control of bldc motor in four quadrants is very crucial in this paper bldc motor is controlled in all the four quadrants without any wastage of power during regenerative braking period power generated is being stored in the chargeable battery

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aug 3 2019 introduction in this experiment four quadrant operation of a dc motor is simulated as well as run in real time the speed and current control model developed in the previous experiment is used to emulate the four regions of operation theoretical background consider an elevator system shown in figure below

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