

V-PAD DIGITAL
SNARE

PD-140DS

Owner's Manual



V-Drums

Before using this unit, carefully read "USING THE UNIT SAFELY" and "IMPORTANT NOTES" (p. 6). After reading, keep the document(s) where it will be available for immediate reference.

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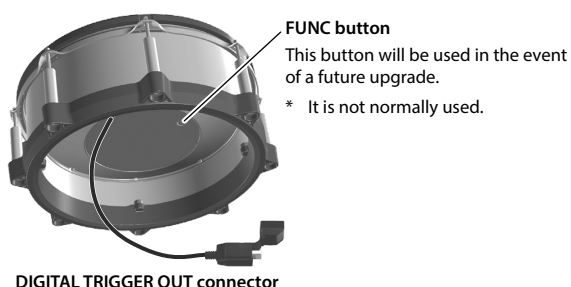
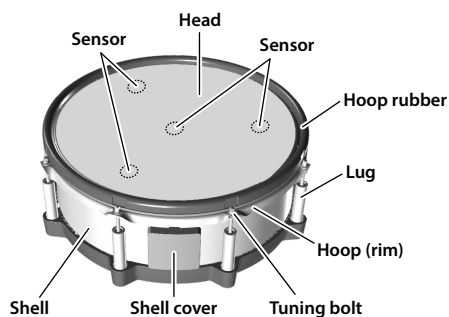
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PD-140DS Components



NOTE

- Applying excessive force to the sensors located under the head can damage them.
- Due to the nature of the materials used in the sensor, changes in temperature or humidity may affect playing dynamics or sensor sensitivity.

Mounting the PD-140DS on a Snare Stand

The PD-140DS can only be used with a commercially available snare stand.

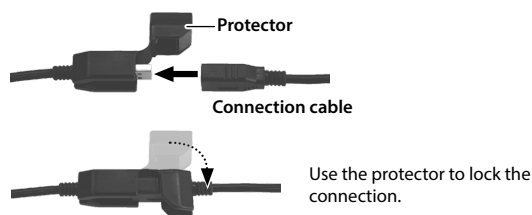
- * Make sure that the snare stand you are using is able to support a 14-inch shell.



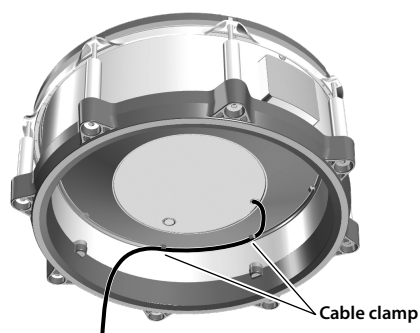
Connecting to the Drum Sound Module

Use a Roland drum sound module that supports digital connections.

1. Insert the plug of the connection cable into the PD-140DS's DIGITAL TRIGGER OUT connector.



You can use the cable clamps (8 locations) to secure the cable as shown in the illustration.



2. Insert the plug of the connection cable into the drum sound module's DIGITAL TRIGGER IN port.
3. On the drum sound module, make settings for using the PD-140DS.

- * For details, refer to the owner's manual of your drum sound module.

Recommended Parameter Settings

The first time you connect the PD-140DS to your drum sound module, the recommended values are assigned to the trigger parameters.

You may need to adjust the trigger parameters depending on how you've mounted the PD-140DS and the location at which you've installed it.

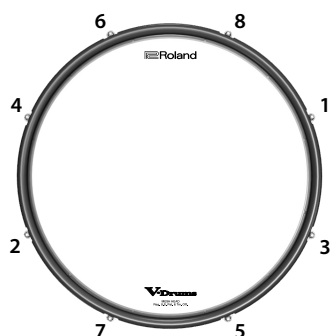
For details on editing refer to the owner's manual of your drum sound module.

Adjusting the Head Tension

Before playing, you must adjust the head tension first. You can tune/adjust the head tension as you would with an acoustic drum, to get the same dynamic “feel.”

The pad will function at it's best if you are sure to:

- Adjust the head evenly so that it does not sag.
- Adjust the tuning bolts so that they are not loose.



1. Adjust each tuning bolt little by little, across the head as indicated in the illustration.

* Fully tightening a tuning bolt at only a single location produces uneven tensioning, and correct playing dynamics may not be achieved or may even cause malfunctions. Even tuning/tensioning is very important.

2. Adjust the tightness of each tuning bolt so that the head is tensioned evenly.

MEMO

- Head tension will not affect the actual tuning of the sound you are playing. For that you need to adjust sound parameters in the sound module you are using. For details, refer to the owner's manual of your drum sound module.
- Also, head tension may change depending on usage. Adjust as needed.

Replacing the Head or Hoop Rubber

The performance of the head and/or hoop rubber will diminish with use over time. If the head is torn or becomes too fatigued, or impossible to tension correctly, then it should be replaced. If the hoop rubber is worn out, it too can be replaced.

For replacement heads or to have the hoop rubber replaced, please contact your dealer or a Roland service center.

Replacing the Head

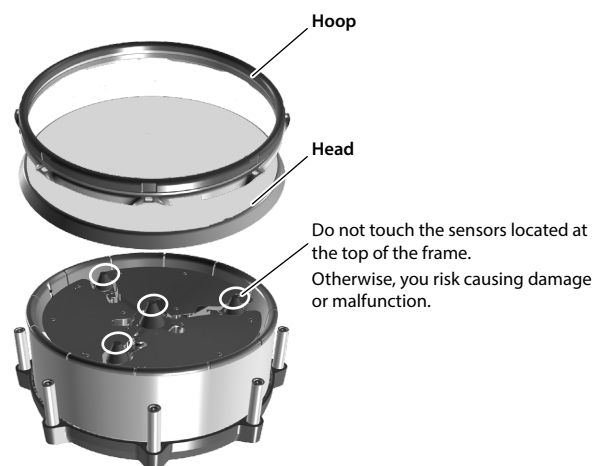
NOTE

Applying excessive force to the sensors located under the head can damage them and/or interfere with accurate triggering.

1. Remove all tuning bolts.

Go around and loosen each bolt a little at a time by turning it counter-clockwise.

2. Remove the hoop and old head.



3. Place the new head and hoop on the shell.

4. Install all eight tuning bolts.

5. Adjust the tension of the head.

Refer to “Adjusting The Head Tension” above.

When Installing the Shell Covering

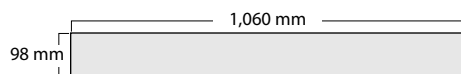
By using a covering, you can customize the shell design to your taste. Please follow the instructions below.

* You will also need to have a Phillips screwdriver.

Covering size

If you wish to install an original covering, you can use a covering of the following size.

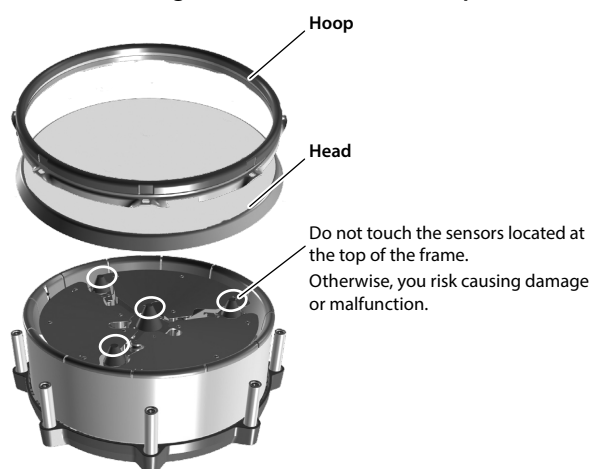
98 (width) x 1,060 (length) mm, maximum thickness: 1 mm



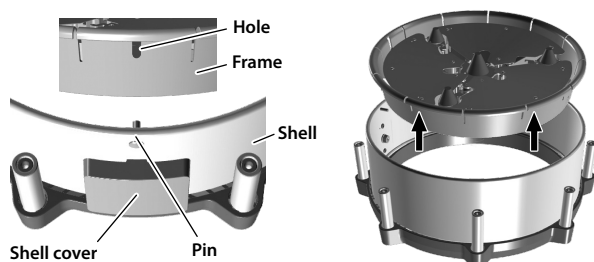
NOTE

- Applying excessive force to the sensors located under the head can damage them and/or interfere with accurate triggering.
- Be careful not to hurt your fingers on the corners or points of the metal parts.

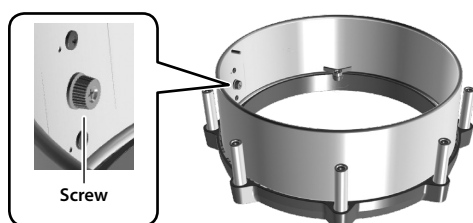
1. Loosen all tuning bolts, and remove the hoop and head.



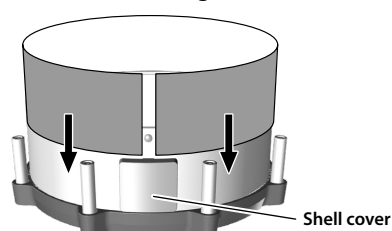
2. Remove the frame by disengaging the pins of the shell from the holes of the frame.



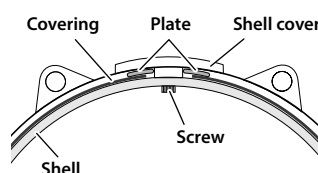
3. Use a Phillips screwdriver to loosen the screw that fastens the covering by approximately two full turns.



4. Attach the covering.



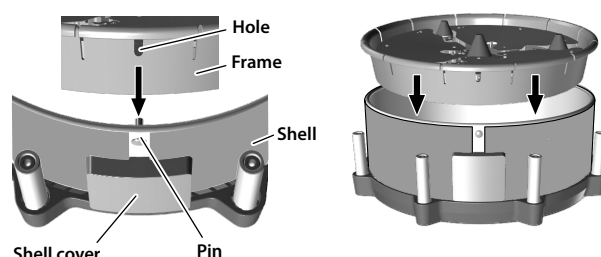
Both edges of the covering will fit into the gap between the shell and plate.



5. While pulling on both ends of the covering so as to eliminate any slack, finger-tighten the screw that holds the covering in place.

6. Using a Phillips screwdriver, securely fasten the screw that holds the covering in place.

7. Align the frame so that the pin of the shell fits into the hole of the frame, and install the frame in the shell.



* Make sure that the frame is securely fitted into the shell.

8. Attach the hoop and head, and tighten the tuning bolts.

9. Adjust the tension of the head.

Refer to "Adjusting the Head Tension" (p. 3).

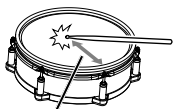
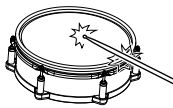
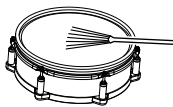
Playing Methods

The response to various playing methods depends on the drum sound module.

For details, refer to the owner's manual of your drum sound module.

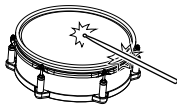
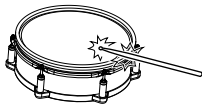
NOTE

- Use only wooden or plastic sticks. Using a carbon or metal stick may cause the sensor to malfunction.
- Use nylon brushes. Using metal brushes may cause the sensor to malfunction, and may scratch the pad.

Playing method	Explanation
Head shot  Tone changes depending on strike point	Hit only the head of the pad. For some snare drum sounds, the tone will change naturally as you move the strike location from the center of the head toward the rim.
Rim shot 	Strike the head and the rim of the pad simultaneously. A sound (rim sound) different than the head shot will be heard.
Cross stick 	Strike the rim while placing your hand on the head. Snare sounds can produce different sounds in response to different playing techniques; for example they can produce a rim sound when played using a rim shot, or a cross-stick sound when played using a cross-stick technique. * On some snare sounds, it might not be possible to play separate sounds in this way.
Playing with brushes 	You can use brushes to scrape the head (brush sweep).

Change the nuance of the rim shot

With certain snare and tom sounds, slight changes in the way you play rim shots changes the nuance.

Playing method	Explanation
Normal rim shot (Open rim shot) 	Strike the head and rim simultaneously.
Shallow rim shot 	Simultaneously strike the head near the rim and the rim itself.

Main Specifications

Roland PD-140DS: V-Pad Digital Snare

Pad size	14 inches
Shell depth	4.3 inches
Tension rods	8
Head	3-ply mesh head
Triggers	2 (Head, Rim)
Connector	DIGITAL TRIGGER OUT connector (compatible with Roland drum sound module equipped with DIGITAL TRIGGER IN port)
Power supply	DIGITAL TRIGGER bus power (DC 5 V)
Current draw	90 mA
Dimensions	380 (W) x 380 (D) x 160 (H) mm 15 (W) x 15 (D) x 6-5/16 (H) inches
Weight	4.9 kg 10 lbs 13 oz
Accessories	Owner's manual Connection cable Drum key

* This document explains the specifications of the product at the time that the document was issued. For the latest information, refer to the Roland website.

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USING THE UNIT SAFELY

INSTRUCTIONS FOR THE PREVENTION OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS	
About ⚠ WARNING and ⚠ CAUTION Notices	
⚠ WARNING	Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used improperly.
⚠ CAUTION	Used for instructions intended to alert the user to the risk of injury or material damage should the unit be used improperly. * Material damage refers to damage or other adverse effects caused with respect to the home and all its furnishings, as well to domestic animals or pets.
About the Symbols	
⚠	The ⚠ symbol alerts the user to important instructions or warnings. The specific meaning of the symbol is determined by the design contained within the triangle. In the case of the symbol at left, it is used for general cautions, warnings, or alerts to danger.
🚫	The 🚫 symbol alerts the user to items that must never be carried out (are forbidden). The specific thing that must not be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the unit must never be disassembled.
🔌	The 🔌 symbol alerts the user to things that must be carried out. The specific thing that must be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the power-cord plug must be unplugged from the outlet.

ALWAYS OBSERVE THE FOLLOWING

**WARNING**

Do not disassemble or modify by yourself
Do not carry out anything unless you are instructed to do so in the owner's manual. Otherwise, you risk causing malfunction.

Do not repair or replace parts by yourself
Refer all servicing to your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information."

**WARNING**

Do not use or store in the following types of locations

- 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
- Exposed to steam or smoke; or are
- Subject to salt exposure; or are
- Exposed to rain; or are
- Dusty or sandy; or are
- Subject to high levels of vibration and shakiness; or are
- Placed in a poorly ventilated location.

Precautions regarding placement of this unit on a stand
Be sure to follow the instructions in the Owner's Manual carefully when placing this unit on a stand.

If it is not set up properly, you risk creating an unstable situation which could lead to the unit falling or the stand toppling, and may result in injury.

**WARNING**

Do not allow foreign objects or liquids to enter unit; never place containers with liquid on unit
Do not place containers containing liquid (e.g., flower vases) on this product. Never allow foreign objects (e.g., flammable objects, coins, wires) or liquids (e.g., water or juice) to enter this product. Doing so may cause short circuits, faulty operation, or other malfunctions.

Turn off the unit if an abnormality or malfunction occurs
Immediately turn the unit off, and request servicing by your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" when:

- If smoke or unusual odor occurs; or
- Objects have fallen into, or liquid has been spilled onto the unit; or
- The unit has been exposed to rain (or otherwise has become wet); or
- The unit does not appear to operate normally or exhibits a marked change in performance.

Be cautious to protect children from injury
Always make sure that an adult is on hand to provide supervision and guidance when using the unit in places where children are present, or when a child will be using the unit.

Do not drop or subject to strong impact
Otherwise, you risk causing damage or malfunction.

**CAUTION**

Evaluate safety issues before using stands
Even if you observe the cautions given in the owner's manual, certain types of handling may allow this product to fall from the stand, or cause the stand to overturn. Please be mindful of any safety issues before using this product.

Route all power cords and cables in such a way as to prevent them from getting entangled
Injury could result if someone were to trip on a cable and cause the unit to fall or topple.

Avoid climbing on top of the unit, or placing heavy objects on it
Otherwise, you risk injury as the result of the unit toppling over or dropping down.

Disconnect all cords/cables before moving the unit
Damage or malfunction may result if you fail to disconnect all cables before moving the unit.

Keep small items out of the reach of children
To prevent accidental ingestion of the parts listed below, always keep them out of the reach of small children.

Removable Parts:

- Screws
- Washers

IMPORTANT NOTES

Placement

- This unit may interfere with radio and television reception. Do not use this unit in the vicinity of such receivers.
- 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.
- Do not place containers or anything else containing liquid on top of this unit. Also, whenever any liquid has been spilled on the surface of this unit, be sure to promptly wipe it away using a soft, dry cloth.

Maintenance

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

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 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.
- This instrument is designed to minimize the extraneous sounds produced when it's played. However, since sound vibrations can be transmitted through floors and walls to a greater degree than expected, take care not to allow these sounds to become a nuisance others nearby.
- The rubber portion of the striking surface is treated with a preservative to maintain its performance. With the passage of time, this preservative may appear on the surface as a white stain, or reveal how the pads were struck during product testing. This does not affect the performance or functionality of the product, and you may continue using it with confidence.
- Continuous playing may cause dis-coloration of the pad, but this will not affect the pad's function.

Intellectual Property Right

- MMP (Moore Microprocessor Portfolio) refers to a patent portfolio concerned with microprocessor architecture, which was developed by Technology Properties Limited (TPL). Roland has licensed this technology from the TPL Group.
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