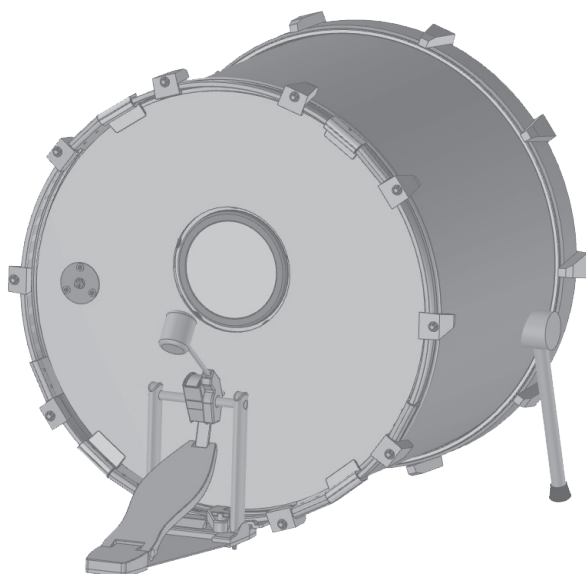


Introduction

The KD-A22 can be installed on a 22-inch acoustic bass drum.

Fully assembled view



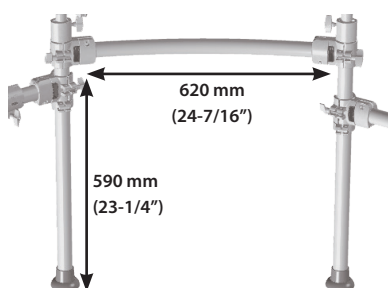
* A 22-inch acoustic bass drum is not included with this product.

When using a drum stand (MDS-50K/MDS-50KV)

For the MDS-50K/MDS-50KV, the spacing of the bass drum installation area is as follows.

Vertical: 590 mm (23-1/4")

Horizontal: 620 mm (24-7/16")



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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Watch the Quick Start Video

"Installing the KD-A22"

<http://roland.cm/kd-a22>



Check the Included Items

After opening the package, check that all of the included items are present. If anything is missing, contact your dealer.

Front head	
Batter head	

NOTE

Do not pull the cable that is attached to the batter head.

Batter board	
--------------	--

NOTE

A circuit board is attached to the batter board. To prevent injury, damage, or accident, observe the following points.

- Do not touch the circuit board with your fingers.
- Do not lay down the batter board with the circuit board facing downward.
- Do not apply excessive force to the circuit board.

Batter hoop * Batter board spacers (6 pcs.) are already attached	
Batter board stopper x 4	
Connection cable	
Drum key	

Installing the KD-A22

Caution during installation

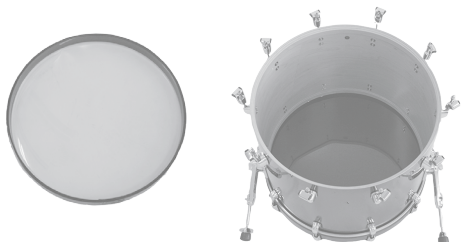
- Before you begin the installation procedure, lay down a mat to protect the floor or the drum from scratches.
- When turning the bass drum upside down, take care not to drop it or let it overturn.
- Muting (such as using weights or a blanket) is not necessary. Remove such materials from the bass drum. Also, do not install muting after installing the KD-A22.

1. Attaching the Batter Head

1. Place the bass drum so that the striking surface head is upward.



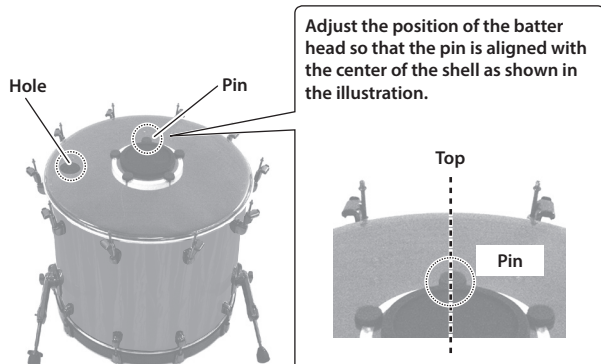
2. Loosen the lugs, and remove the hoop and head.



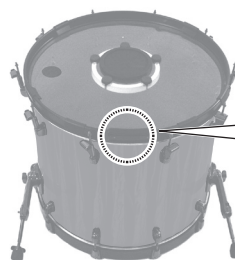
3. Place the batter head on the shell so that the hole in the batter head is positioned as shown in the illustration.

NOTE

This placement of the batter head assumes that you are using a single pedal. If you are using a twin pedal, you might need to adjust the batter head position depending on the kick pedal that you are using. For details, refer to "Using double kick pedals" (p. 5).



4. Place the batter hoop on the batter head, and adjust the position of the batter hoop so that the centers of the batter hoop and batter head are aligned.

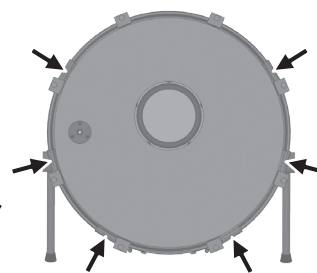
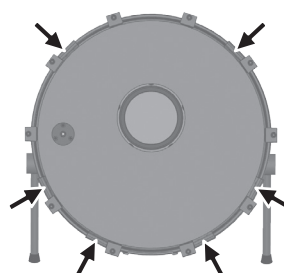


Place the batter hoop on the batter head so that the pedal attachment hardware is at this location.

5. Move the batter board spacers attached to the batter hoop to the positions shown in the illustration.

For a bass drum with ten lugs

For a bass drum with eight lugs



6. Working alternately across opposite sides of the drum, lightly tighten each lug until the lugs do not wobble.



7. Then tighten each lug another 3/4 of a turn to secure the batter head.

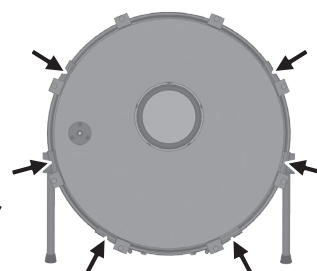
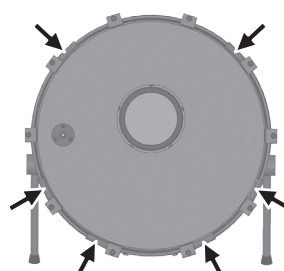
NOTE

If the batter head is not secured sufficiently, the sensor might malfunction, or the sound of the strike might be too loud.

8. Move the batter board spacers attached to the batter hoop in the directions shown by the arrows, so that they firmly contact the lugs.

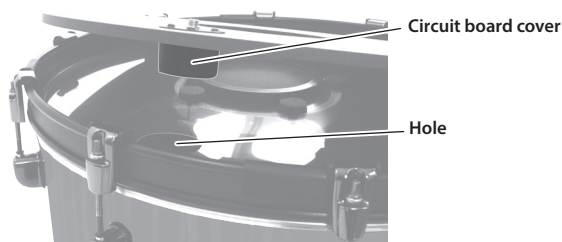
For a bass drum with ten lugs

For a bass drum with eight lugs



2. Attaching the Batter Board

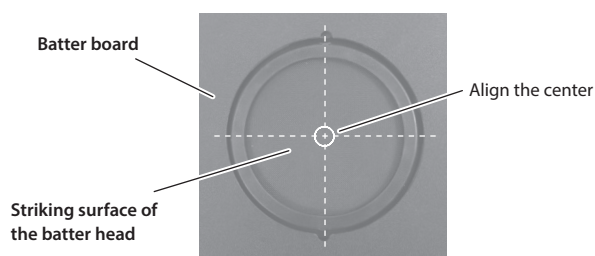
1. Align the batter board's circuit board cover with the hole in the batter head, and place the batter board.



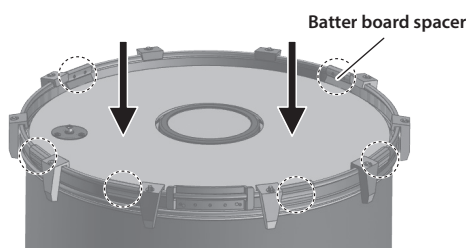
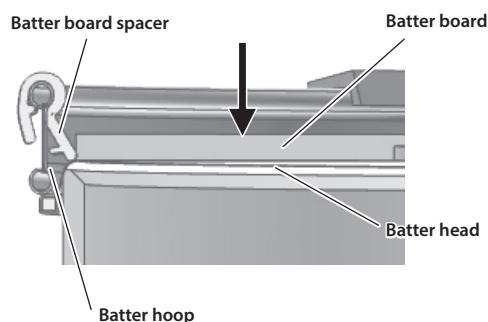
NOTE

Take care that the batter board's circuit board cover does not rest on the batter head or catch on the hole. Forcing it could damage the circuit board/circuit board cover or the battery head.

2. As shown in the illustration, align the center of batter head's strike surface and center of the batter board hole.



3. Lightly press down the batter board so that it firmly contacts the batter head.



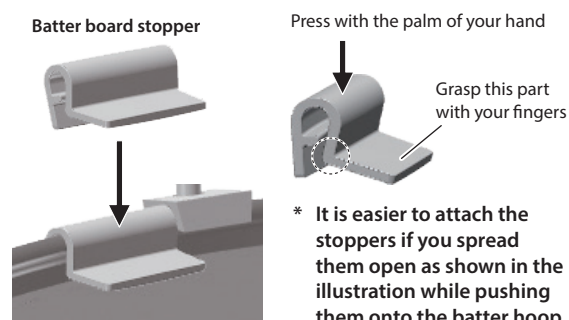
3. Attaching the Batter Board Stoppers

Attach the included batter board stopper (4 pcs.) to the batter hoop.

NOTE

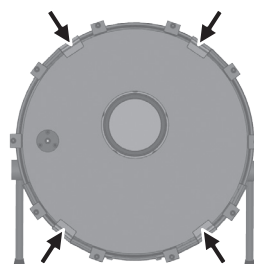
When attaching the stoppers, take care not to hurt your hand on the lugs.

1. Push down on the batter board stoppers in a location where your hand will not strike the lug.

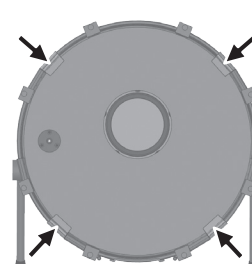


2. Position the batter board stoppers as shown in the illustration.

For a bass drum with ten lugs



For a bass drum with eight lugs



4. Connecting the Connector

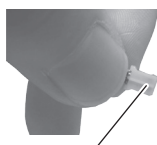
1. Turn the bass drum over so that the front surface is upward.



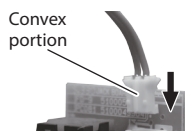
2. Remove the head and hoop.



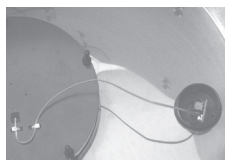
3. Connect the connector to the circuit board.



Note the protrusion on the connector



Note the orientation of the connector



NOTE

Do not allow your fingers to touch the circuit board (especially the edge or terminals). Doing so could cause injury or malfunction.

5. Attaching the Front Head

1. Place the front head on the shell.



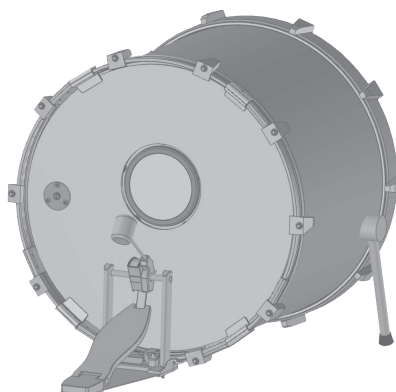
2. Place the hoop, and lightly tighten each lug, working alternately across opposite sides of the drum, until the lugs do not wobble.



3. Then tighten each lug another 3/4 of a turn to secure the front head.

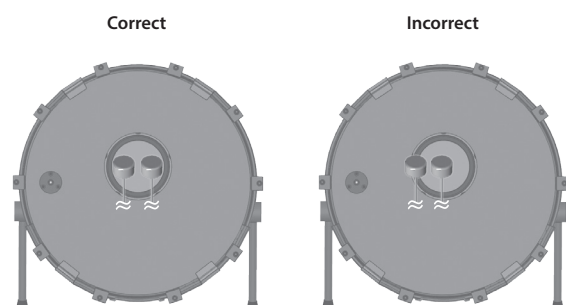
6. Positioning the Kick Pedal

1. Place the bass drum upright, and position the kick pedal.



Using double kick pedals

The KD-A22 can also be used with double kick pedals. Adjust the striking points of the two beaters so that they are at equal distances to the left and right of the batter head's strike surface.

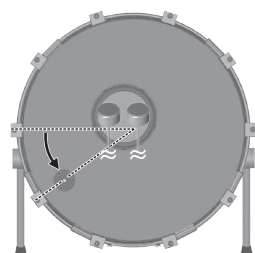


NOTE

Depending on the kick pedal, it might not be possible to attach it to the bass drum so that the strike point of the two beaters is located symmetrically to the left and right of the center of the batter head's strike surface.

For a bass drum with ten lugs

Adjust the batter head and batter board attachment position so that the center of the batter board jack is positioned one lug lower.



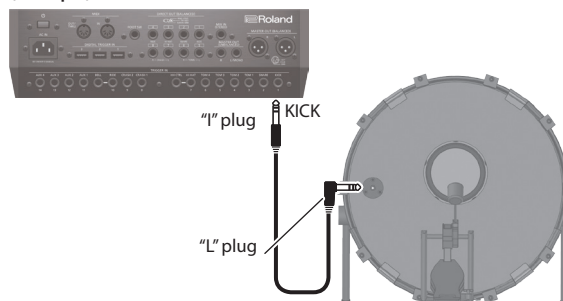
For a bass drum with eight lugs

Adjust the batter head and batter board attachment position so that the strike point of the two beaters is located symmetrically to the left and right of the center of the batter head's strike surface, using the position shown in the above illustration as a guideline.

Connecting to the Drum Sound Module

Connect the KD-A22 to your drum sound module. Use the included connection cable to make the connection. Connect the "L" plug of the connection cable to the jack of the KD-A22.

(Example) TD-50



Recommended Parameter Settings

Below you will find recommended trigger parameters when using the KD-A22 with various drum sound modules. You may need to adjust the trigger parameters depending on how you've mounted the KD-A22 and the location at which you've installed it.

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

TD-50	
Trig Type	KDA22
TD-30	
Trig Type	KD140
Sensitivity	7
Threshold	7

* If double triggering occurs, set the value of the Mask Time to 40 ms, and adjust the sensitivity by increasing the value of the Threshold.

Caution After Assembly Is Complete

If you remove the batter board

Be sure to remove the hoop and front head, and disconnect the connector before you remove the batter board.

If you attempt to remove the batter board without disconnecting the connector, you might damage the connector, break wires, damage the circuit board, or cause malfunctions.

When moving or transporting the drum

Detach the kick pedal before moving or transporting the drum.

Failure to do so might cause damage or malfunctions.

Main Specifications

Roland KD-A22: Kick Drum Converter

Compatible size of acoustic bass drum	22 inches
Trigger	1
Connector	1/4-inch phone type
Weight	4.0 kg / 8 lbs 14 oz (excluding acoustic bass drum and kick pedal)
Accessories	Owner's manual

* 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.

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.



Do not place in an unstable location

Otherwise, you risk injury as the result of the unit toppling over or dropping down.



⚠ 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

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.



IMPORTANT NOTES

Placement

- 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.
- 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 paste stickers, decals, or the like to this instrument. Peeling such matter off the instrument may damage the exterior finish.
- 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 benzine, 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.

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