English

V-Drums TD-50KV2 Setup Guide

Assembly and connections
Time required: approx. ***170*** min.

01 Check the included items

Checking the included items
Time required: approx. ***50*** min.

As soon as you open the package, check to see that all items are included.
If anything is missing, please contact your dealer.

TD-50KV2

- ☐ TD-50X (drum sound module) x 1
- ☐ PD-140DS (digital snare) x 1
- ☐ CY-18DR (digital ride) x 1
- ☐ VH-14D (digital hi-hat) x 1
- ☐ PD-108 (tom 1, 2) x 2
- ☐ PD-128 (tom 3, 4) x 2
- ☐ CY-16R-T (crash 1, 2) x 2
- ☐ MDH-STG2 (pad mount) x 1
- ☐ Trigger cable (for connecting tom 4) × 1
- ☐ Owner's Manual
  - ☐ TD-50KV2 Setup Guide (this document)
  - ☐ TD-50X Quick Start
  - ☐ PD-140DS Owner's Manual
  - ☐ CY-18DR Owner's Manual
  - ☐ VH-14D Owner's Manual
  - ☐ PD-128/PD-108 Owner's Manual
  - ☐ CY-16R-T Owner's Manual

* The TD-50X/PD-140DS/CY-18DR/VH-14D/CY-16R-T accessories are in the respective packing cartons.

KD-180 (bass drum)

* When checking the items included with the KD-180, refer to "KD-180 Owner's Manual."

MDS-STG2 (drum stand)

* When checking the items included with the MDS-STG2, refer to "MDS-STG2 Owner's Manual."

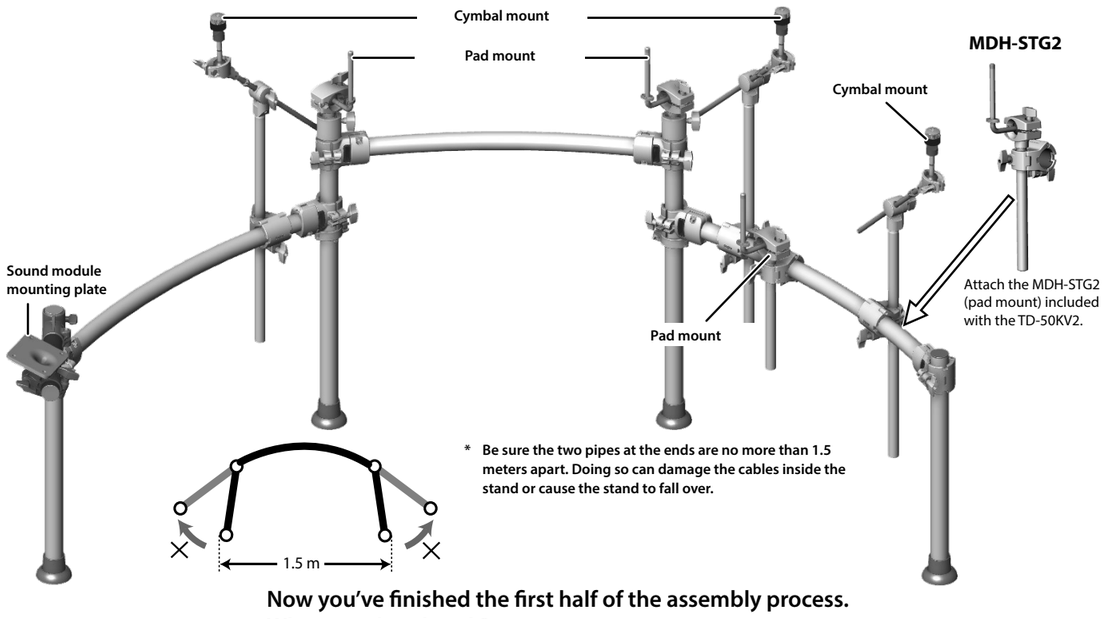
* This package does not include a kick pedal, a hi-hat stand, and a snare stand. Use with a commercially available kick pedal, hi-hat stand, and snare stand.

02 Assemble the drum stand (MDS-STG2)

Assembling the MDS-STG2
Time required: approx. ***40*** min.

Assembly procedure

Assemble the stand using the procedure described in "MDS-STG2 Owner's Manual."



* Be sure the two pipes at the ends are no more than 1.5 meters apart. Doing so can damage the cables inside the stand or cause the stand to fall over.

Now you've finished the first half of the assembly process.
Why not take a break?

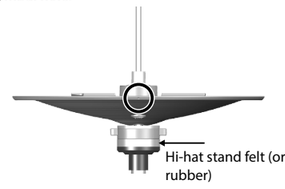
03 Assemble the hi-hat (VH-14D)

Assembling the VH-14D
Time required: approx. ***10*** min.

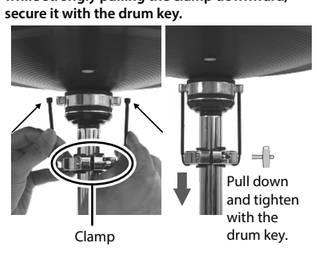
Assembly procedure

Assemble the hi-hat using the procedure described in "VH-14D Owner's Manual."

1. Place the bottom cymbal on the hi-hat stand with the cymbal rod passing through the bottom cymbal hole.

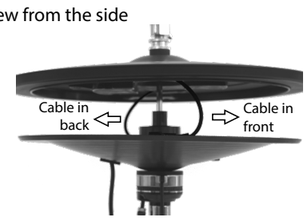


2. Pass the ends of the clamp through the grooves in the metal portion of the bottom cymbal, then while strongly pulling the clamp downward, secure it with the drum key.



3. Connect the link cables A/B on the top cymbal to the link jacks A/B of the bottom cymbal.

View from the side



* Don't pull the link cables too hard when assembling this product.
* Make sure that both the top cymbal and bottom cymbal can be opened and closed smoothly.

04 Assemble the bass drum (KD-180)

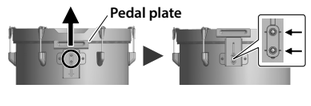
Assembling the KD-180
Time required: approx. ***10*** min.

NOTE

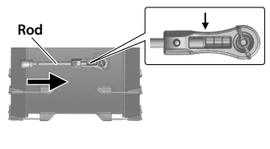
During assembly, take care that the weight of the bass drum does not pinch your hand or foot.

1. Adjust the position of the pedal plate.

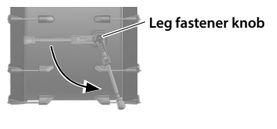
Use the drum key to loosen the bolts at the locations shown; then adjust the position of the pedal plate so that the marks of the pedal plate align with the bolt positions, and tighten the bolts.



2. Insert the included rod into the leg, position the tip of the rod at mark 2, and then use the drum key to tighten the bolt.



3. Loosen the leg fastener knob, adjust the angle of the leg, and then tighten the leg fastener knob.



4. Mount the kick pedal.

Attach the kick pedal to the pedal plate.

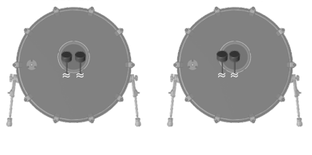
Adjust the location at which the kick pedal is attached so that the beater strikes the center of the batter head's strike surface; then securely fasten the kick pedal to the KD-180.

* Take care not to pinch your fingers.

After attaching the kick pedal, adjust the angle of the legs and the length of the rods as necessary.

Using 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 center of the batter head's strike surface.



05 Attach the parts

* For details on each component, refer to the respective owner's manual.

Attaching the parts
Time required: approx. ***50*** min.

Precautions regarding placement of this unit on a stand

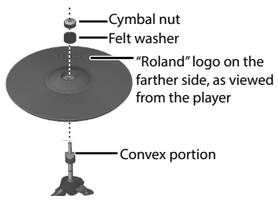
Be sure to follow the instructions in the TD-50KV2 Setup Guide carefully when placing this unit on a stand. If it is not set up properly, you risk creating an unstable situation which could lead to the unit falling or the stand toppling, and may result in injury.

Attach the crash cymbal (CY-16R-T) and ride cymbal (CY-18DR)

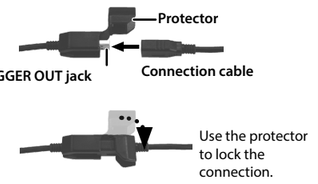
1. Position the cymbal so that the convex portion of the cymbal mount is aligned with the concave portion of the bottom of the cymbal.

2. Tighten the cymbal nut to obtain an appropriate amount of sway.

* Use the cymbal nut and felt washer that are included with the drum stand.

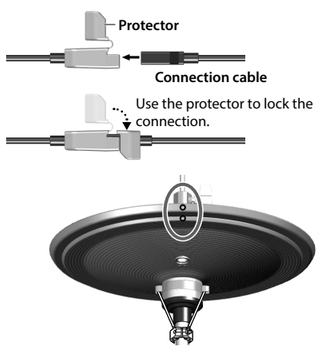


Insert the plug of the connection cable into the CY-18DR's DIGITAL TRIGGER OUT connector.

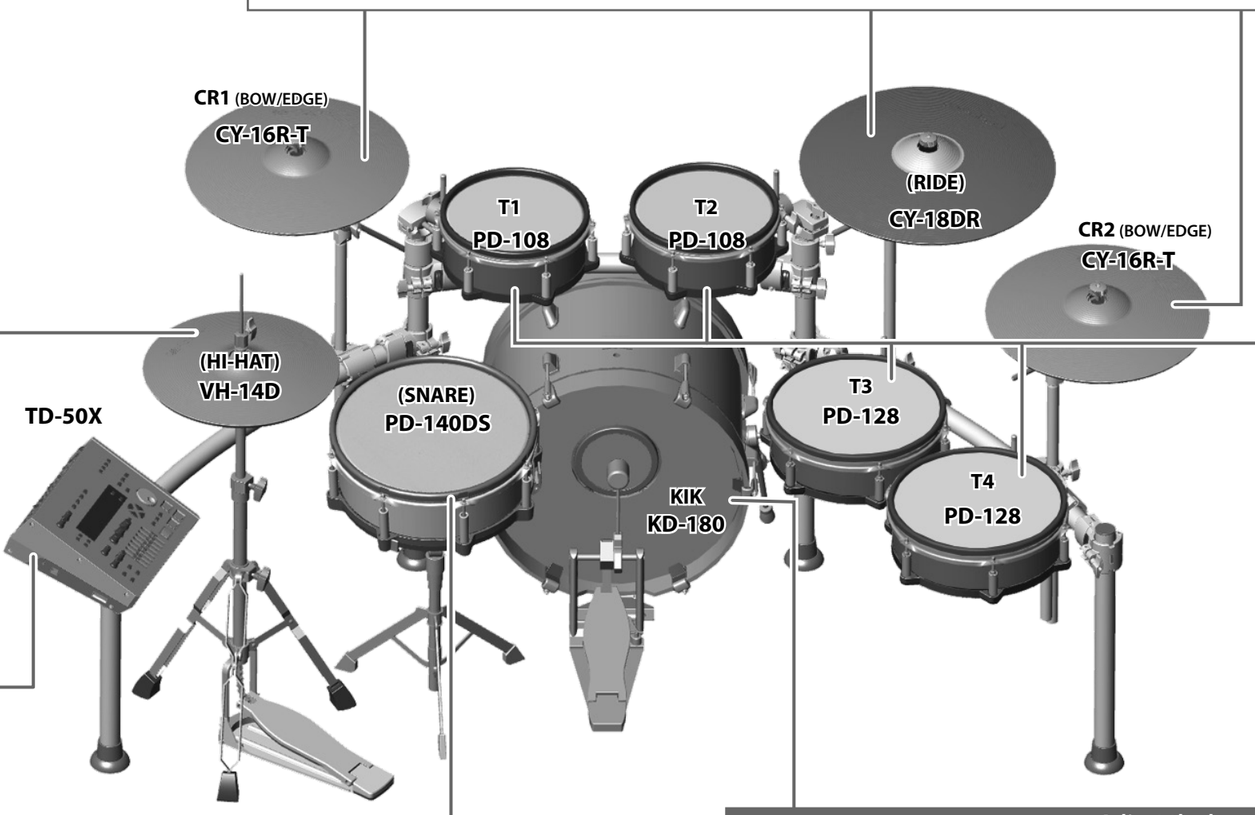


Setting up the hi-hat (VH-14D)

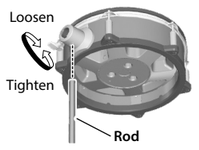
Insert the plug of the connecting cable included with the VH-14D into the DIGITAL TRIGGER OUT jack of the VH-14D.



* While playing, the "●" (round dot) marks on the top and bottom cymbals should be lined up, as shown in the illustration. The product may not work correctly if the marks aren't lined up.



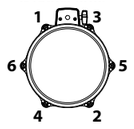
Attach the tom (PD-108/PD-128)



Adjusting the head tension

Adjust the tension so that the pad responds to your strikes with the appropriate feel.

* Before using the pad, tighten the head so that the tension is rather firm.

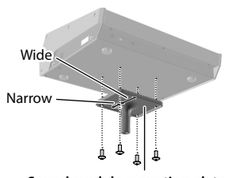


1. Adjust each tuning bolt little by little, across the head as indicated in the illustration.
2. Adjust the tightness of each tuning bolt so that the head is tensioned evenly.

NOTE

Adjusting the head tension affects only the head response, and does not change the pitch of the sound as it would on an acoustic drum.
Pitch adjustments are made by editing the sound in your drum sound module. For details, refer to the owner's manual of the drum sound module you're using.

Attach the drum sound module (TD-50X)



Sound module mounting plate

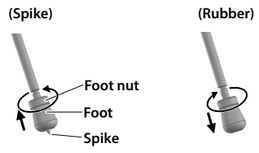
Adjust the bass drum (KD-180)

Adjust the tip of the legs (spike/rubber) appropriately for the surface on which you're placing the KD-180.

Spike	Soft floor V-Drums mat (TDM series), carpet, etc.
Rubber	Hard floor Wood flooring, concrete, etc.

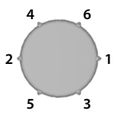
If you loosen the foot nut and rotate the foot to raise it, the spike will be exposed.

Tighten the foot nut to secure the position of the foot.



* The tip of the spike is sharp; handle it with care.
* Using the spike leg tips on wood flooring may damage the floor; the rubber leg tips should be used on wood flooring.

Adjusting the head tension



Adjust the tension of the head (front/batter) before you play the KD-180. You can vary the strike response (playing feel) by adjusting the tension.

1. Adjust each tension bolt little by little, across the head in the order shown in the illustration.

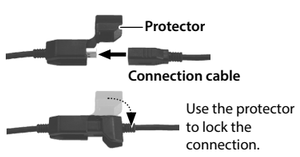
* Fully tightening a tension bolt at only a single location will produce uneven tensioning, which will make it impossible to achieve correct strike response and may also cause malfunctions.

2. Adjust each tension bolt so that the head is tensioned evenly.

Mounting the snare (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.**

Insert the plug of the connecting cable included with the PD-140DS into the DIGITAL TRIGGER OUT jack of the PD-140DS.



Adjusting the head tension

Adjust the tension so that the pad responds to your strikes with the appropriate feel.

1. Adjust each tuning bolt little by little, across the head as indicated in the illustration.
   Adjust the tension so that the pad responds to your strikes with the appropriate feel.
2. Make additional fine adjustments to the tension while you continue checking the feel of the pad's strike.

* Fully tightening a tension bolt at only a single location will produce uneven tensioning, which will make it impossible to achieve correct strike response and may also cause malfunctions.

* 5 1 0 0 0 7 1 9 5 6 - 0 1 *

In order to use this unit correctly, please carefully read this document as well as the sections "Using the Unit Safely" and "Important Notes" regarding the accessories (included in the owner's manual of the respective accessory) before use. After reading, keep the document(s) where it will be available for immediate reference.

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06

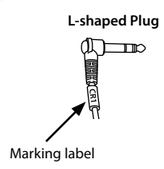
Connect the pads to the drum sound module

Connecting the pads and drum sound module

Time required: approx. ***10*** min.

* **To prevent malfunction and equipment failure, always turn down the volume, and turn off all the units before making any connections.**

1. **Connect the L-shaped plug of the cables included with the stand (MDS-STG2) to the drum sound module (TD-50X).**
2. **Connect the L-shaped plugs of the cables to each pad.**
   The names on the labels correspond to trigger input jack names as follows.



Marking label	KIK	T1	T2	T3	T4
TRIGGER IN jack	KICK	TOM 1	TOM 2	TOM 3	TOM 4

Marking label	CR1	CR2	AX1	AX2	AX3	AX4
TRIGGER IN jack	CRASH1	CRASH2	AUX 1	AUX 2	AUX 3	AUX 4

NOTE

- Use the CY-16R-T as a crash cymbal. Bell hits cannot be used.
- To connect TOM 4, use the trigger cable included with the TD-50KV2.

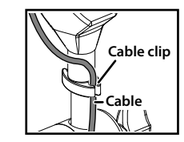
Plug ➡ BOW/EDGE OUTPUT jack

* BELL OUTPUT jack is not used.

Connect PD-140DS (snare), CY-18DR (ride) and VH-14D (hi-hat)

Insert the plug of the connection cable into the TD-50X's DIGITAL TRIGGER IN port.

* **You may connect to any of the ports 1–3.**



Use the cable clips as shown above, to secure the cables.

For a left-handed setup

The setup described in this guide is for a right-handed drummer. If you want to use a left-handed setup, leave the drum sound module (TD-50X) in the same position, but exchange the position of each pad and cymbal (together with its mounting clamp) left for right.

If you do this, some of the cables will not be long enough, so use commercially available extension cables (TRS 1/4" phone female ↔ TRS 1/4" phone male) to adjust the cable length.

This completes assembly and connections.

■ **When you've finished making connections, turn on the power as described in "TD-50X Quick Start," and verify that you can hear sound.**

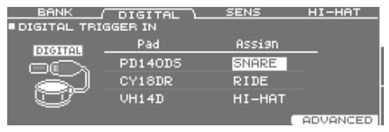
■ Settings for the snare (PD-140DS), ride cymbal (CY-18DR) and hi-hat (VH-14D)

The first time you connect the PD-140DS, CY-18DR and VH-14D to the DIGITAL TRIGGER IN port, the following screen will appear.

As directed in the screen, assign the PD-140DS as snare, assign CY-18DR as ride, and assign VH-14D as hi-hat.

* **If you specify the same trigger input as a pad that is connected to a TRIGGER IN jack, the pad that's connected to that TRIGGER IN jack won't produce sound.**

1. **Press the [ENTER] button.**



2. **Use the cursor buttons to select "PD140DS," "CY18DR" or "VH14D."**
3. **Use the [–] [+] buttons or the dial to specify the Assign.**

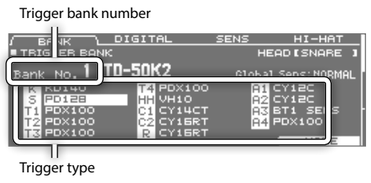
PD140DS	SNARE
CY18DR	RIDE
VH14D	HI-HAT

4. **Press the [KIT] button to return to the DRUM KIT screen.**

■ Set the trigger bank to "TD-50KV2"

1. **Press the [TRIGGER] button.**
2. **Press the PAGE [UP] button several times to access the top page.**
3. **Press the [F1] (BANK) button.**

The TRIGGER BANK screen appears.



4. **Place the cursor on the trigger bank number, and use the [-] [+] buttons or the dial to set the trigger bank to "TD-50KV2."**
5. **Press the [KIT] button to return to the DRUM KIT screen.**

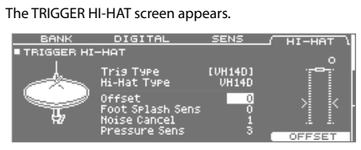
■ Adjust the hi-hat (VH-14D)

When using the VH-14D, be sure to adjust the offset and hi-hat on the TD-50X after connecting.

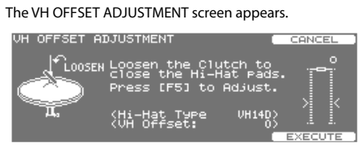
This adjustment is required in order to correctly detect open, close, and pedal operations.

Adjusting the offset

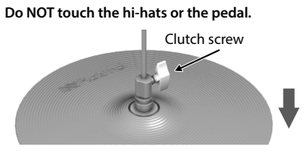
1. **Press the TD-50X's [TRIGGER] button.**
2. **Press the PAGE [UP] button several times to access the top page.**
3. **Press the [F4] (HI-HAT) button.**
   The TRIGGER HI-HAT screen appears.



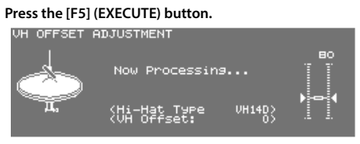
4. **Press the [F5] (OFFSET) button.**
   The VH OFFSET ADJUSTMENT screen appears.



5. **Loosen the clutch screw of the top cymbal and let it sit on the bottom cymbal.**
   * **Do NOT touch the hi-hats or the pedal.**



6. **Press the [F5] (EXECUTE) button.**



The "VH offset" parameter is set automatically (approx. 3 seconds).

The [TRIGGER] button stops flashing and remains lit.

MEMO

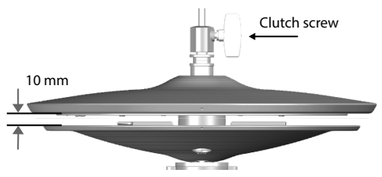
You can also press the [TRIGGER] button while holding down the [KIT] button on the TD-50X to adjust the offset.

When first connecting the VH-14D to the drum sound module, the trigger parameters are set to the recommended values.

The trigger parameters may need to be adjusted depending on the environment where the VH-14D is used, including how it is mounted and the position in which it is set up. Refer to the Owner's Manual of the drum sound module you are using for details on how to configure the settings.

Adjusting the hi-hat

1. **Adjust the gap between the top cymbal and bottom cymbal to a clearance of approximately 10 mm, then tighten the clutch screw.**



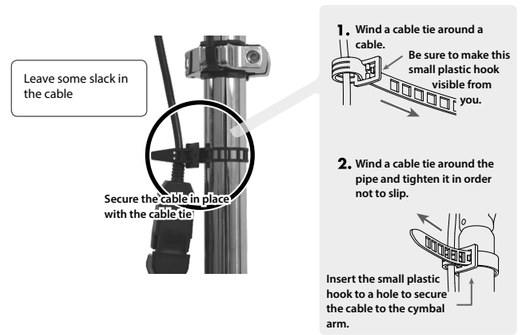
* **Although the gap can be adjusted to a clearance that makes playing the hi-hat easier, setting too narrow or wide a gap can cause improper function of the unit and prevent the hi-hat from sounding as you intend. Setting the gap to 10 mm provides the most natural feel when playing the VH-14D.**

2. **Change the spring tension by adjusting the hi-hat stand.**
   For instructions on adjusting the tension, refer to the owner's manual for your hi-hat stand.

* **If the spring tension is too high or too low, the hi-hat may not operate correctly and you might not be able to play the way you intended.**

* **The tension may not be adjustable on some stands.**

Fixing the cables



NOTE

* **Continuous playing may cause dis-coloration of the pad, but this will not affect the Pad's function.**

* **See the VH-14D Owner's Manual for details on the hi-hat.**

Have fun playing the drums!

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 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.

Use only the stand that is recommended

This unit should be used only with a stand that is recommended by Roland.

⚠WARNING

Do not place in a location that is unstable

When using the unit with a stand recommended by Roland, the stand must be carefully placed so it is level and sure to remain stable. If not using a stand, you still need to make sure that any location you choose for placing the unit provides a level surface that will properly support the unit, and keep it from wobbling.

Precautions regarding placement of this unit on a stand

Be sure to follow the instructions in the TD-50KV2 Setup Guide 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.

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.

⚠CAUTION

Use only the specified stand(s)

This unit is designed to be used in combination with specific stands (MDS series) manufactured by Roland. If used in combination with other stands, you risk sustaining injuries as the result of this product dropping down or toppling over due to a lack of stability.

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.

⚠CAUTION

Cautions when moving this unit

If you need to move the instrument, take note of the precautions listed below. At least two persons are required to safely lift and move the unit. It should be handled carefully, all the while keeping it level. Make sure to have a firm grip, to protect yourself from injury and the instrument from damage.

Take care so as not to get fingers pinched

When handling the following moving parts, take care so as not to get fingers, etc., pinched. An adult should always be in charge of handling these items.

- Stands
- Pedals

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.

- Included Parts

  Cable clip, cable tie, drum key

- Removable Parts

  Screws, washers, nuts, felt washers, springs, hand knobs

IMPORTANT NOTES

Additional Precautions

- 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.
- When disposing of the packing carton or cushioning material in which this unit was packed, you must observe the waste disposal regulations that apply to your locality.
- When turning the unit over, be careful so as to protect the buttons and knobs from damage. Also, handle the unit carefully; do not drop it.
- 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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