

1 Check the included items

Time required: approx. 40 min.

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

VAD706-1

- 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
- CY-16R-T (Crash 1, 2) x 2

VAD706-2

- PDA100 (Tom 1) x 1
- PDA120 (Tom 2) x 1
- PDA140F (Tom 3) x 1
- Owner's Manual
- PDA100/PDA120/PDA140F Owner's Manual

KD-222 (kick pedal)

- When checking the items included with the KD-222, refer to "KD-222 Owner's Manual."

DTS-305 (drum stand)

- When checking the items included with the DTS-305, refer to "DTS-305 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.

2 Set Up the Drum Stand (DTS-305)

Time required: approx. 20 min.

- * The tips of the cymbal mount and tom holder are sharp. Handle them with care.
- * When setting up or storing the stand, be careful not to pinch the fingers you use to handle the stand.

Setup procedure

Set up the stand as shown in the illustration.

Boom stand (DBS-30)

- 1. Adjust the angle of the cymbal mount.
- 2. Adjust the position and angle of the boom arm.
- 3. Adjust the height of the stand.
- 4. Adjust the openness of the legs.

Combination stand (DCS-30)

- 1. Adjust the cymbal mount angle.
- 2. Adjust the position and angle of the boom arm.
- 3. Adjust the height of the stand.
- 4. Adjust the height of the tom holder.
- 5. Adjust the openness of the legs.

Pad stand (PDS-20)

- 1. Attach the mounting plate to the stand.
- 2. Adjust the tilt of the mounted product.
- 3. Adjust the height of the stand.
- 4. Adjust the openness of the legs.

NOTE Stand

- When setting up, ensure that the tripod of the stand is sufficiently open. If the tripod is insufficiently open, the appropriate degree of stability might not be obtained.
- If you are using the boom arm in a lengthened position, stability will improve if the cymbal is directly above one of the tripod legs.
- Likewise, when attaching the tom to the tom holder, stability will improve if the tom is directly above one of the tripod legs.
- When you loosen the knob while adjusting the height or angle of tom or cymbal, the pipe or pad might fall and pinch your fingers. Use one hand to support the tom, pipe, or cymbal mount while you slowly loosen the knob.
- To prevent the stand from tipping over or falling, tighten the knobs until there is no looseness. When tightening knob ④ or knob ⑤, ensure that the gears that maintain the angle are firmly meshed.

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

Time required: approx. 70 min.

Assemble the stand 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.

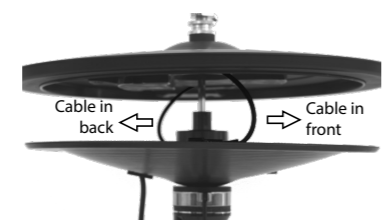
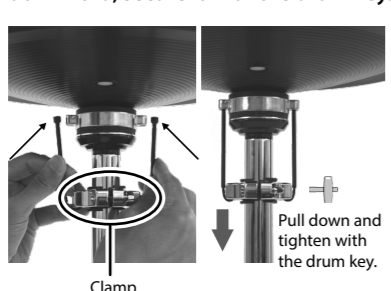
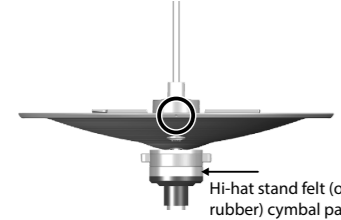
2. Pass the ends of the clamp through the grooves in the metal portion of the bottom cymbal, then while strongly pulling the clamp downward, secure it with the drum key.

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.

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



Assembling the VH-14D

Time required: approx. 70 min.

NOTE

- When setting up, ensure that the tripod of the stand is sufficiently open. If the tripod is insufficiently open, the appropriate degree of stability might not be obtained.
- If you are using the boom arm in a lengthened position, stability will improve if the cymbal is directly above one of the tripod legs.
- Likewise, when attaching the tom to the tom holder, stability will improve if the tom is directly above one of the tripod legs.
- When you loosen the knob while adjusting the height or angle of tom or cymbal, the pipe or pad might fall and pinch your fingers. Use one hand to support the tom, pipe, or cymbal mount while you slowly loosen the knob.
- To prevent the stand from tipping over or falling, tighten the knobs until there is no looseness. When tightening knob ④ or knob ⑤, ensure that the gears that maintain the angle are firmly meshed.

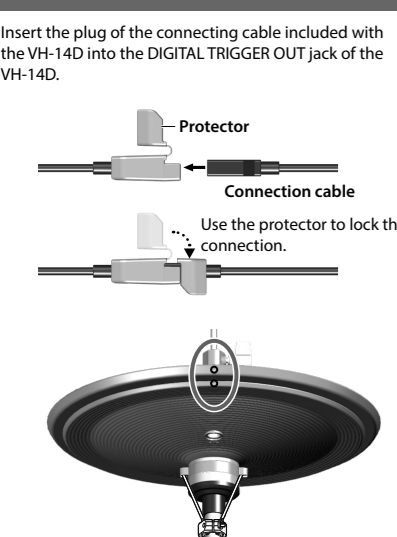
4 Attaching Various Parts

Time required: approx. 40 min.

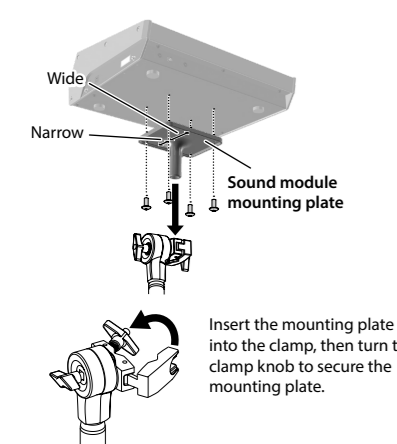
Precautions regarding placement of this unit on a stand

Be sure to follow the instructions in the VAD706 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.

Setting up the hi-hat (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.

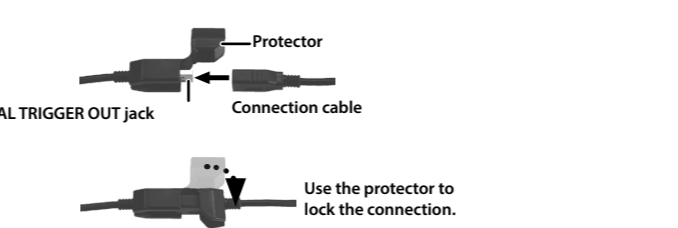
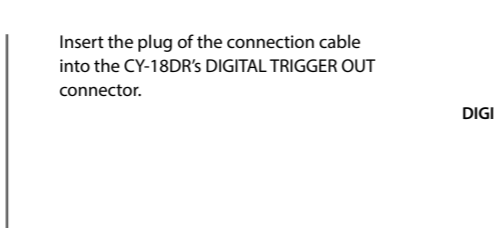
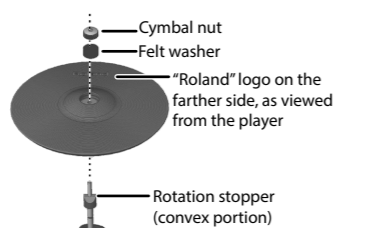
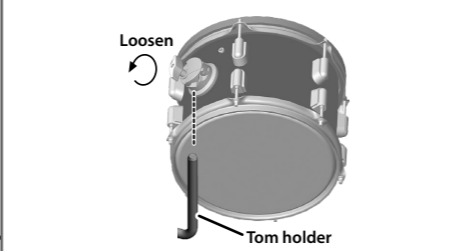
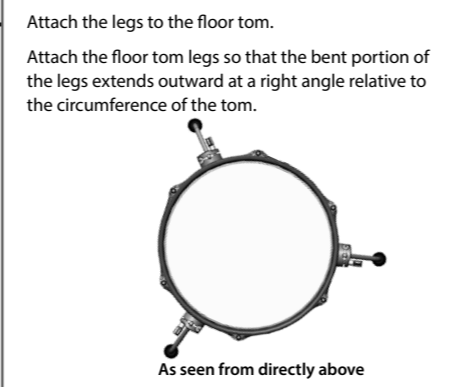
Attach the drum sound module (TD-50X)

Attach the cables to the stand with the cable tie.

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

1. Position the cymbal so that the stopper (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.

**Attach the toms (PDA-100 / PDA120)****Installing the floor tom (PDA140F)**

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.

DIGITAL TRIGGER OUT JACK

Connection cable

Use the protector to lock the connection.

Mounting the kick pedal onto the bass drum (KD-222)

1. Loosen the leg fastener knob, adjust the angle of the leg, and then tighten the leg fastener knob. Using a drum key, adjust the length of the rods so that the left and right are the same length.
2. Adjust the tip of the legs (spike/rubber) appropriately for the surface on which you're placing the KD-222.
3. Affix the wood hoop protectors to the position at which the kick pedal is attached.
4. Mount the kick pedal. 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-222. Take care not to pinch your fingers.

NOTE

- * 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.
- * The beater must hit the center of the striking surface.

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

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.

5 Connect the pads to the drum sound module

Time required: approx. 20 min.

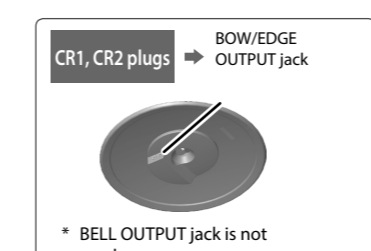
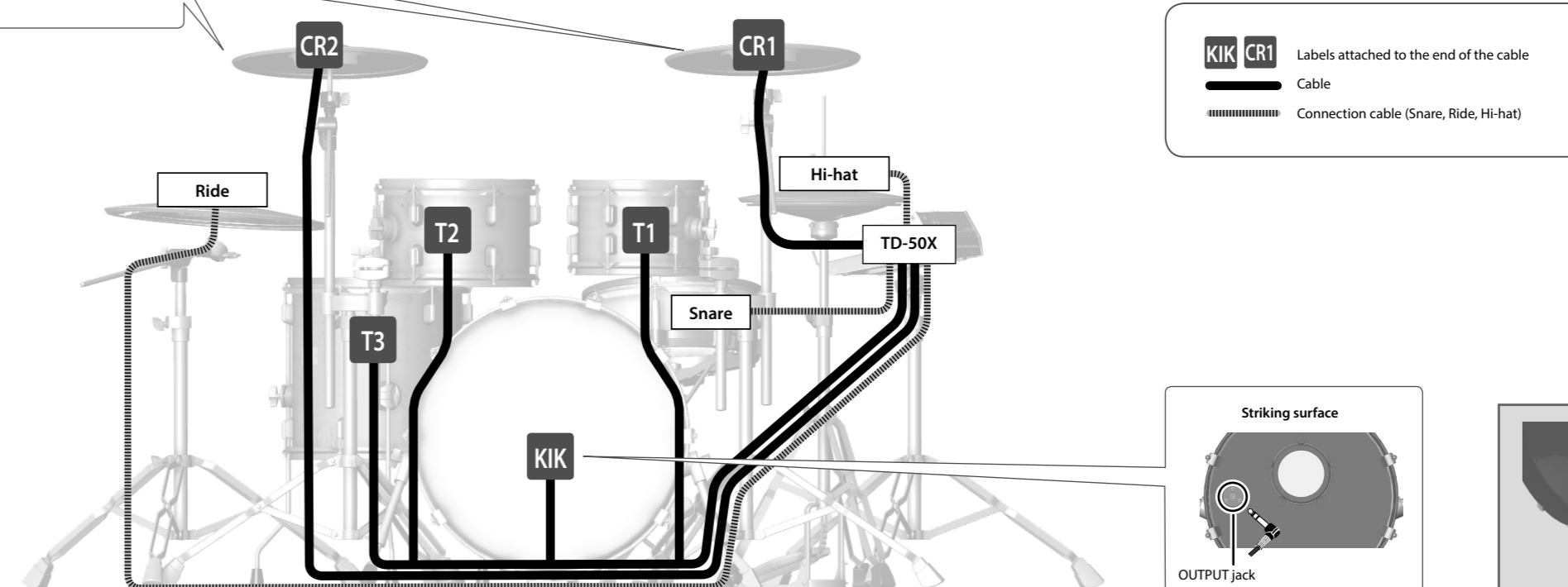
- * To prevent malfunction and equipment failure, always turn down the volume, and turn off all the units before making any connections.

1. Connect the L-shaped plug of the cables included with the stand (DTS-305) 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
TRIGGER IN jack	KICK	TOM 1	TOM 2	TOM 3
Marking label	CR1	CR2		
TRIGGER IN jack	CRASH1	CRASH2		

- * The T4, AX1, AX2, AX3 and AX4 cables are extension cables. Use them as needed.
- * If you don't need to use the extension cables, leave them disconnected from the drum sound module.

**VAD706**
As seen from the front**This completes setup 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.

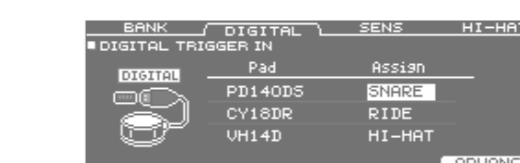
Settings for the snare (PD-140DS), ride (CY-18DR) and hi-hat (VH-14D)

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 is 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.

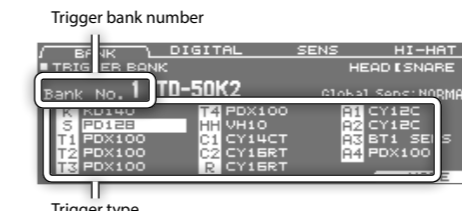
PD140DS	SNARE
CY18DR	RIDE
VH14D	HI-HAT

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

Set the trigger bank to "VAD706"

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 "VAD706."
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 for pedal movements such as open or close to be detected correctly.

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.

MEMO

You can also press the [TRIGGER] button while holding down the [OFF] 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.

The "VH offset" parameter is set automatically (approx. 3 seconds). When the adjustment is complete, the [TRIGGER] button stops flashing and remains lit.

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.
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

1. Wind a cable tie around a 11 cable. Be sure to make this small plastic hook.
2. Wind a cable tie around the pipe and tighten it in order not to slip.

Insert the small plastic hook to hold to secure the cable to the cymbal arm.

NOTE

- Continuous playing may cause discoloration 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.

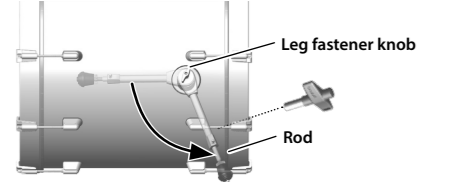
Have fun playing the drums!



■ Bass drum (KD-222)

1 Standing up the bass drum legs

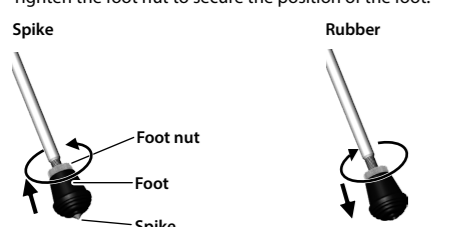
1. Loosen the leg fastener knob, adjust the angle of the leg, and then tighten the leg fastener knob.
Using a drum key, adjust the length of the rods so that the left and right are the same length.



2. Adjust the tip of the legs (spike/rubber) appropriately for the surface on which you're placing the KD-222.

Spike	Soft floor Carpet, etc.
Rubber	Hard floor Wood flooring, concrete, etc.

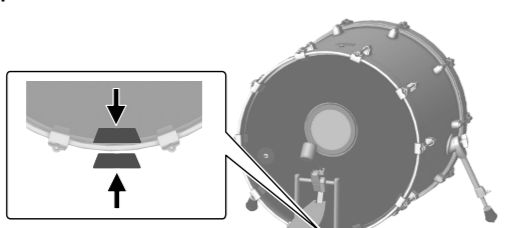
If you loosen the foot nut and rotate the foot to raise it, the spike will be exposed.
Tighten the foot nut to secure the position of the foot.



* 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.

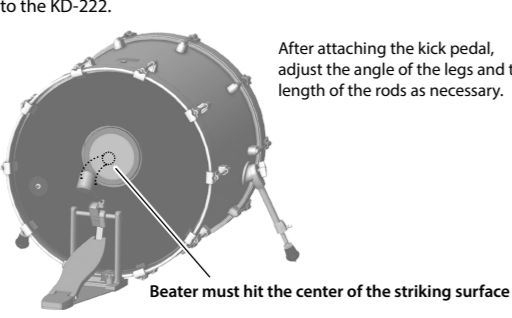
2 Mounting the kick pedal

3. Affix the wood hoop protectors to the position at which the kick pedal is attached.



Affix to both surfaces of the batter hoop.

4. Mount the kick pedal.
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-222.



Beater must hit the center of the striking surface.

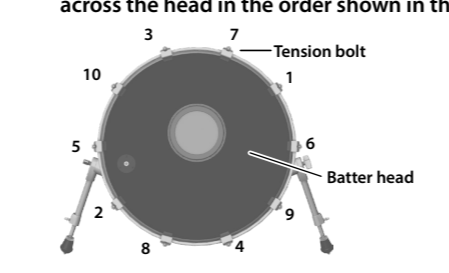
NOTE

- Firmly mount both the KD-222 and the kick pedal.
- Take care not to pinch your fingers.

3 Adjusting the head tension

Adjust the tension of the batter head before you play the KD-222. You can vary the strike response (playing feel) by adjusting the tension.

1. Adjust each tension bolt little by little, working back and forth 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.

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.

Reference

For details on the Bass drum, refer to "KD-222 Owner's Manual."

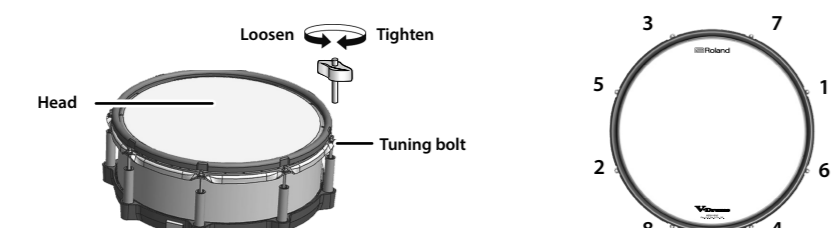
■ Snare (PD-140DS)

Adjusting the head tension

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.



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.

Reference

For details on the snare, refer to "PD-140DS Owner's Manual."

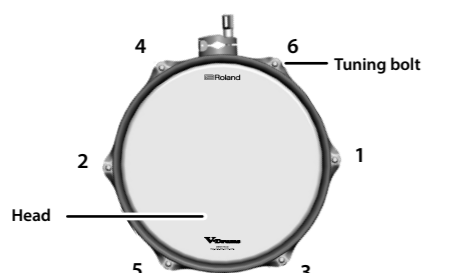
■ Tom (PDA100 / PDA120 / PDA140F)

Adjusting the head tension

1. Adjust each tuning bolt little by little, across the head as indicated in the illustration.
Slightly stronger tension than the strike feel of an acoustic drum is appropriate.

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.



NOTE

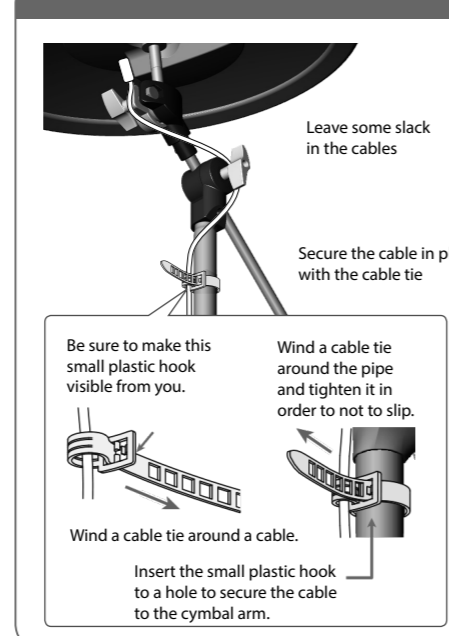
Adjusting the head tension affects only the head response, and does not change the pitch of the sound as it would on an acoustic drum. Pitch adjustments are made by editing the sound in your drum sound module.

Reference

For details on the tom, refer to "PDA100 / PDA120 / PDA140F Owner's Manual."

■ Crash cymbal (CY-16R-T) ■ Ride cymbal (CY-18DR)

Fixing the cables



Leave some slack in the cables.

Secure the cable in place with the cable tie.

Be sure to make this small plastic hook visible from you.

Wind a cable tie around a cable.

Insert the small plastic hook to a hole to secure the cable to the cymbal arm.

Reference

For details on the cymbals, refer to "CY-16R-T Owner's Manual" or "CY-18DR Owner's Manual"

NOTE

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

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 as domestic animals or pets.

About the Symbols

The **WARNING** 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 **CAUTION** 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 **NO** 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 VAD705 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

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.

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
- Knobs

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, knobs

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.

IMPORTANT NOTES

The copyright of content in this product (the sound waveform data, style data, accompaniment patterns, phrase data, audio loops and image data) is reserved by Roland Corporation.

Purchasers of this product are permitted to utilize said content (except song data such as Demo Songs) for the creating, performing, recording and distributing original musical works.

Purchasers of this product are NOT permitted to extract said content in original or modified form, for the purpose of distributing recorded medium of said content or making them available on a computer network.

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This product contains eParts integrated software platform of eSOL Co., Ltd. eParts is a trademark of eSOL Co., Ltd. in Japan.

This Product uses the Source Code of J-F Kernel under T-License 2.0 granted by the T-Engine Forum (www.tron.org).

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Placement

- Do not allow lighting devices that normally are used while their light source is very close to the unit, 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.

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.

Intellectual Property Right

- It is forbidden by law to make an audio recording, video recording, copy or revision of a third party's copyrighted work (musical work, video work, broadcast, live performance, or other work), whether in whole or in part, and distribute, sell, lease, perform or broadcast it without the permission of the copyright owner.
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