

01 Checking the included items

Checking 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.

VAD716-1	VAD716-2
<ul style="list-style-type: none"> V71 (Drum sound module) x 1 PD-14DSX (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 Owner's Manuals <ul style="list-style-type: none"> VAD716 Setup Guide (this document) V71 Quick Start <ul style="list-style-type: none"> Roland Cloud Connect Setup Guide Roland Cloud Activation Card PD-14DSX Owner's Manual CY-18DR Owner's Manual VH-14D Owner's Manual CY-16R-T/CY-14C-T Owner's Manual The V71, PD-14DSX, CY-18DR, VH-14D, CY-16R-T accessories are in the respective packing cartons. 	<ul style="list-style-type: none"> PDA100 (tom 1) x 1 PDA120 (tom 2) x 1 PDA140F (Tom 3, 4) x 2 Owner's Manual <ul style="list-style-type: none"> PDA100/PDA120/PDA140F Owner's Manual
	<h4>KD-22 (kick drum)</h4> <ul style="list-style-type: none"> When checking the items included with the KD-22, refer to the "KD-22 Owner's Manual".
	<h4>DTS-30S (drum stand)</h4> <ul style="list-style-type: none"> When checking the items included with the DTS-30S, refer to the "DTS-30S 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 Setting up the drum stand (DTS-30S)

Drum stand settings
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)

Adjust the position and angle of the boom arm.
Adjust the height of the stand.
Adjust the openness of the legs.

Combination stand (DCS-30)

Adjust the cymbal mount angle.
Adjust the position and angle of the boom arm.
Adjust the height of the stand.
Adjust the openness of the legs.

Pad stand (PDS-20)

Use this to mount the drum cable module (V71).
Attach the mounting plate to the stand.
Adjust the tilt of the mounted product.
Adjust the height of the stand.
Adjust the openness of the legs.

* The two DCS-30 stands (included) are symmetrical. Set these stands up so that the tom holder goes on the inside and the cymbal mount goes on the outside.

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

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

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

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

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.

05 Connecting the pads to the drum sound module

Connecting the pads and 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.

- Connect the L-shaped plug of the cables included with the stand (DTS-30S) to the drum sound module (V71).
- 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			
TRIGGER IN jack	CRASH1	CRASH2			

* The 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.

NOTE Use the CY-16R-T as a crash cymbal. Bell hats cannot be used.
* BELL OUTPUT jack is not used.

Connect PD-14DSX (snare), CY-18DR (ride) and VH-14D (hi-hat)
Insert the plug of the connection cable into the V71'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.

Labels attached to the end of the cable
KICK CR1 Cable Connection cable (Snare, Ride, Hi-Hat)

Striking surface side
TRIGGER OUTPUT jack

Pass cables below the kick drum so that they do not obstruct performance.

04 Attaching various parts

Attaching the parts
Time required: approx. 40 min.

Precautions regarding placement of this unit on a stand
Be sure to follow the instructions in the "VAD716 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.

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

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

Attaching the toms (PDA100 / PDA120)

Loosen the tom holder.

Installing the floor tom (PDA140F)

Attach the legs to the floor tom.
Attach the floor tom legs so that the bent portion of the legs extends outward at a right angle relative to the circumference of the tom.

As seen from directly above

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.

Use the protector to lock the connection.

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.
Position the cymbals so that the Roland logo is on the far side facing away from the player.

Attaching the drum sound module (V71)

Widen the narrow mounting plate.
Insert the mounting plate into the clamp, then turn the clamp knob to secure the mounting plate.
Insert the plug of the connecting cable included with the PD-14DSX into the DIGITAL TRIGGER OUT jack of the PD-14DSX.
Attach the cables to the stand with the cable tie.
Use the protector to lock the connection.

Mounting the snare (PD-14DSX) on a snare stand

The PD-14DSX 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-14DSX into the DIGITAL TRIGGER OUT jack of the PD-14DSX.

Use the protector to lock the connection.

Mounting the kick pedal onto the kick drum (KD-22)

- 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.
- Adjust the tip of the legs (spike/rubber) appropriately for the surface on which you're placing the KD-22.
- Affix the wood hoop protectors to the position at which the kick pedal is attached.
- 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-22.
Take care not to pinch your fingers.

When using a felt beater or double kick pedal, see "Using a felt beater" or "Using a double kick pedal" in "Kick drum (KD-22)", located on the back of this guide.

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

Affix to both surfaces of the batter hoop.

The adhesive of the wood hoop protector works better if you apply it one day before attaching the kick pedal.

After attaching the kick pedal, adjust the angle of the legs and the length of the rods as necessary.
Beater must hit the center of the striking surface.

This completes setup and connections. When you've finished making connections, turn on the power as described in "V71 Quick Start", and verify that you can hear sound.

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

The first time you connect the PD-14DSX, CY-18DR and VH-14D to the DIGITAL TRIGGER IN port, the following screen will appear. As directed in the screen, assign the PD-14DSX as snare, assign CY-18DR as ride, and assign VH-14D as hi-hat.

- Select "OK" and then press the [ENTER] button. The TRIGGER - DIGITAL PAD screen appears.
- Use the cursor buttons to select "PD-14DSX", "CY-18DR" or "VH-14D" and use the [-] [+] buttons or the dial to specify the Assign.
- Press the [KIT] button to return to the KIT screen.

TRIGGER - DIGITAL PAD

TRIG IN	TRIG OUT	DIGITAL TRIGGER IN	DIGITAL TRIGGER OUT
PD-14DSX	SNARE	CY-18DR	RIDE
VH-14D	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.

Setting the trigger bank to "VAD716"

- Press the [TRIGGER] button.
- Press the [F1] (BANK) button. The TRIGGER - BANK screen appears.
- Place the cursor on the trigger bank number, and use the [-] [+] buttons or the dial to set the trigger bank to "VAD716".
- Press the [KIT] button to return to the KIT screen.

Trigger bank number

Trigger type	Bank	Assign
DCS-30	001	CRASH1
DCS-30	002	CRASH2
T1	003	TOM 1
T2	004	TOM 2
T3	005	TOM 3
T4	006	TOM 4
KICK	007	KICK
PDA100	008	TOM 1
PDA120	009	TOM 2
PDA140F	010	TOM 3
PDA140F	011	TOM 4
PDA100	012	TOM 1
PDA120	013	TOM 2
PDA140F	014	TOM 3
PDA140F	015	TOM 4

Adjusting the hi-hat (VH-14D)

When using the VH-14D, be sure to adjust the offset and hi-hat on the V71 after connecting. This adjustment is required in order to correctly detect open, close, and pedal operations.

Adjusting the offset

- Press the [TRIGGER] button.
- Press the [F4] (HI-HAT) button. The TRIGGER - HI-HAT screen appears. Make sure that Trig Type is set to "VH-14D".
- Press the [F6] (OFFSET) button. The HI-HAT OFFSET ADJUSTMENT screen appears.
- 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.
- Press the [F6] (EXECUTE) button. "Processing..." is shown once calibration begins.
- Press the [KIT] button to return to the KIT screen. "Complete!" is shown once calibration is finished, and the display returns to the TRIGGER screen.

MEMO You can also press the [TRIGGER] button while holding down the [KIT] button on the V71 to adjust the offset.

Adjusting the hi-hat

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

* 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.

* The tension may not be adjustable on some stands.

Fixing the cables

- Wind a cable tie around a cable. Be sure to make this small plastic hook engage from you.
- Wind a cable tie around the cable and tighten it in order not to slip.

Insert the small plastic hook to a hole 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.



Once you've got sound, it's time to connect to Roland Cloud! Roland Cloud offers an ongoing stream of premium sound contents. Follow the steps in the "Roland Cloud Connect Setup Guide" (leaflet) to connect to Roland Cloud.

Kick drum (KD-22)

Using a felt beater

When using a felt beater, be sure to apply the included kick drum head patch to the batter head pad face to protect it.

When using a non-felt beater, you can keep using the pad normally with the patch still on.

- If you wish to remove the marks (adhesive) that remain after you peel off the patch, wipe them off with a cloth and rubbing alcohol.
- Do not use rubbing alcohol on any other parts besides the batter head's strike surface. Using rubbing alcohol on plastic or wooden parts may cause discoloration or damage.

Using double kick pedals

The KD-22 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.

Correct **Incorrect**

If the beater's striking point cannot be aligned appropriately

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.

In this case, use the following procedure to adjust the position of the batter head's strike surface.

- Loosen the tension bolt, remove all of the hooks/tension bolts, the batter board stopper, and the batter hoop.

NOTE

To avoid injury, damage, or malfunction, do not detach the batter board and batter head from the shell. Take care not to injure your hands or feet while working.

- Rotate the batter head and board together, and adjust them so that the beaters are aligned to the center.

- Place the batter hoop back.
- Attach the batter board stopper to the hooks/tension bolts.

Hook / Tension bolt
Batter board stopper

- Alternating between opposite sides and using your fingers to press the hooks and batter board stoppers, insert the tension bolts into the lugs while pressing the batter board stoppers in between the batter hoop and the batter board.

Push down Batter board stopper
Batter board
Batter hoop

- Working alternately across opposite sides of the drum, lightly tighten each tension bolt until the hooks do not wobble.

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

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

Adjusting the head tension

Adjust the tension of the batter head before you play the KD-22. You can vary the strike response (playing feel) by adjusting the tension.

- Adjust each tension bolt little by little, working back and forth across the head in the order shown in the illustration.

Tension bolt
Batter head

* 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.

- 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-22 Owner's Manual".

Snare (PD-14DSX)

Adjusting the head tension

- 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.

Loosen Tighten
Head Tuning bolt

- 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 the "PD-14DSX Owner's Manual".

Tom (PDA100 / PDA120 / PDA140F)

Adjusting the head tension

- 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.

Head Tuning bolt

- 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 the "PDA100 / PDA120 / PDA140F Owner's Manual".

Crash cymbal (CY-16R-T)

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 the "CY-16R-T/CY-14C-T Owner's Manual" or "CY-18DR Owner's Manual".

NOTE

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

Ride cymbal (CY-18DR)

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 **CAUTION** symbol alerts the user to things that must be done as 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 VAD716 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.

WARNING

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 (DCS series, DBS series, PDS 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

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

IMPORTANT NOTES

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.
- Depending on the material and temperature of the surface on which you place the unit, its rubber feet may discolor or mar the surface.

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

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- Company names and product names appearing in this document are registered trademarks or trademarks of their respective owners.
- In this manual, company names and product names of the respective owners are used because it is the most practical way of describing the sounds that are emulated using DSP technology.

For EU Countries

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