

RHH130

English

PRECAUTIONS

Before using, please read this owner's manual, and use this product in a safe and proper manner. Particularly in the case of children and young users, parents or an instructor should teach the children the proper manner in which to use the device.

To prevent against accidents and injury

Please follow the cautions listed below.



Caution (including danger, or warning). This mark indicates cautions to which you should pay close attention.



Actions indicated with this icon are prohibited and should not be attempted.



WARNING

If this symbol is ignored and the equipment is used improperly, fatal injury to persons or serious damage could occur.



If this product is used with a hi-hat stand, do not place a stand on a sloping, unstable surface, or on steps. The stand may overturn or be damaged, resulting in injury.



If this product is used with a hi-hat stand, make sure all bolts are tightened firmly. Also, when adjusting the height or angle, do not suddenly loosen the bolts. Loose bolts may result in the stand overturning or parts dropping, causing injury.



Please be careful when children are close to or touching the product. Careless movement around the product may result in injury.



When setting the product, please pay close attention to the handling and setting of cables. Carelessly placed cables may cause the user and others to trip and fall.



Do not alter the product. Doing so may result in injury or damage/deterioration to the product.



CAUTION

If this symbol is ignored and the equipment is used improperly, there is a danger of injury to persons handling the equipment, and material damage could occur.



Do not step on or place heavy objects on the product. It may result in damage.



Do not use or keep the product in places with extremely high temperature (places in direct sunlight, close to a heater, in a closed car, etc.) or high humidity (bathroom, outside on a rainy day, etc.). Doing so may result in deformation, discoloration, damage or deterioration.



When cleaning the product, do not use benzine, thinner or alcohol as it may result in discoloration or deformation. Please wipe with a soft cloth or a damp cloth that has been wrung out thoroughly. If the product is soiled or sticky, use a neutral detergent on a cloth then wipe with a damp cloth that has been wrung out thoroughly to remove any remaining detergent. Also pay close attention so as not to let the water and detergent come into contact with the cushions used in the product; doing so may result in deterioration.



Make sure you hold onto the plug, not the cable, when connecting or disconnecting the cable. Also, never place any heavy or sharp objects on the cable. Applying excessive force to the cable may result in damage to the cable, such as the wires being severed, etc.

Please Take Note of the Following When Using the RHH130

The following changes to settings should be made according to the type of tone module you are using.

Please refer to the Owner's Manuals that came with the RHH130 and your tone module for further information.

DTXTREME IIs

- **Special settings are not required.**
(The RHH130 is compatible with this module's factory settings.)

DTXPRESS III

- Set the Trigger Setup setting (refer to the Owner's Manual that came with the DTXPRESS III) to "4. SP Med."

The RHH130 is especially designed to take advantage of the powerful features offered by the DTXTREME IIs and DTXPRESS III. The RHH130 can be used with the older model tone modules listed below as long as changes to settings, also described below, are made. However, be aware that the RHH130's performance will not be the same as that with the DTXTREME IIs or DTXPRESS III.

For the modules listed below, first proceed with the setting in Step 1.

In some cases, cross-talk generated from a foot-closed sound may trigger a hi-hat sound even though the setting in Step 1. has been carried out. If cross-talk is obvious, proceed to Step 2.

* Since the setting in Step 2. makes low velocity triggers harder to detect, we recommend that you experiment with the setting's values to best match your playing style and conditions.

DTXPRESS II

1. In the Utility Mode Hi-Hat Offset, set the **HH Offs** value to "-5".
2. In the Trigger Setup Edit Mode Gain, Minimum Velocity, set the **Gain** to "40%".

DTXTREME

1. In the Utility Mode [UT 7] SYSTEM3, set the **FCoffset** value to "-5".
2. In the Trigger Edit Mode TrgSens2 (trigger sense 2), set the **minimum level** to "20%".

DTXPRESS

1. In the Utility Mode Hi-Hat Offset, set the **HH Offs** value to "-5".
2. In the Trigger Setup Edit Mode Gain, Minimum Velocity, set the **Gain** to "40%".

DTXver.2

1. In the Utility Mode 8.FC offset, set the **FCoffset** value to "-5".
2. In the Trigger Edit Mode 5. Level Range, set the **minimum level** to "20%".

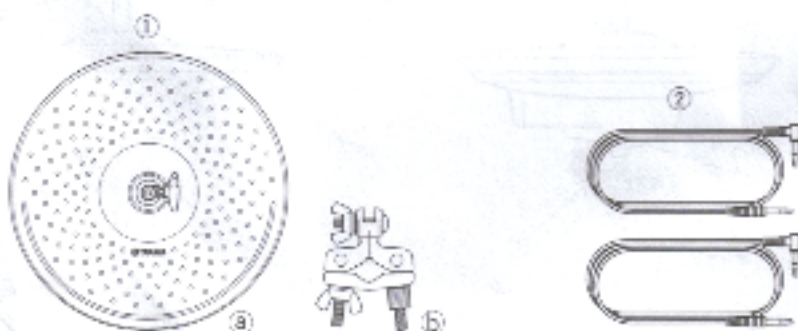
日本語は、裏面をご覧ください。

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WCB4361

Package Contents

* To customers who purchased a Pads Set, please refer to the attached "Accessories List" sheet included with the Pads Set when confirming package contents.

- RHH130: ① RHH130 main unit x 1, ②: main unit x 1, ③: clamp base assembly x 1, ④ stereo phone cable x 2, ⑤ Owner's Manual (this sheet) x 1



Specifications

■ RHH130 Real Hi-hat Pad

- Size: ø329 x 106 (H) mm (clamp not included)
- Weight: 2.3 kg (clamp not included)
- Sensor System: Trigger sensor (piezo) x 1, switch x 1 (edge)
- Controller Type: Multi-step Switch
- Output jack: Standard stereo phone jack x 2

* Specifications are subject to change without notice.

Troubleshooting

If the following trouble occurs when the RHH130 is used, please check the following points before asking your dealer for assistance.

No Sound, Volume is Low

- Is the pad connected to the correct input number of the DTX Series Drum Trigger Module using the supplied stereo phone cable? (See "Connections" above.) The RHH130 will not operate using a mono phone cable.
- Increase the output level using the level adjustment knob on the pad. (See "Output Level Adjustment" above.)

Hitting the pad once produces multiple sounds (double triggering)

- Decrease the output level using the level adjustment knob on the pad. Too high of a level adjustment setting causes the drum module to produce multiple sounds, because the large signal produced by the high settings sustains for too long of a time. (See "Output Level Adjustment" above.)

A pad voice sounds when the foot is removed from the hi-hat pedal. (Noise)

- Is the clutch base making contact with the top unit inside of the main unit? (See "Setting Up: 4" above.)

Also, please refer to the Owner's Manual that came with your DTX Series Drum Trigger Module for more information regarding the problems described above and any other problems that you may be experiencing. If a solution cannot be found to the problem after consulting the manuals, please contact the dealer from whom you purchased the product.

Setting Up

Before setting up the RHH130, prepare a hi-hat stand (Yamaha HS series stands, etc.), then follow the procedures below to set up the RHH130.

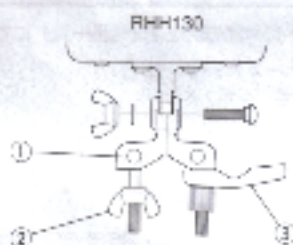


Make sure the stand is set up in a stable and secure manner. If the clamp bolts, etc. are not tightened securely, the pad or stand can fall over causing injury. Also, placing the rack or stand on an unstable surface, etc., can cause the pad or stand to fall over, resulting in injury.

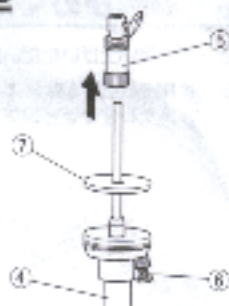
NOTE: Since hi-hat stands made by other manufacturers may not be compatible with the RHH130, we recommend that a Yamaha hi-hat stand be used. (Recommended: HS650, HS740)

1. Attach the clamp base ① to the RHH130 main unit. First, loosen the nut ② on the clamp base and remove the open clamp ③.
2. Set the hi-hat stand ④ on a stable surface. Remove the hi-hat clutch ⑤ and cymbal support (rubber, felt, etc.) that came with the hi-hat stand. (The clutch is not needed when using the RHH130; however, keep it in a safe place for future use.)
If the stand is equipped with an angle adjustment screw ⑥, loosen the screw so that its end is not sticking out from the cymbal support plate ⑦.
3. After loosening the wing bolt ⑧ on the RHH130, slide the RHH130 onto the hi-hat stand shaft ⑨ then set the RHH130 so that it is horizontal to the cymbal support plate ⑦. Swivel the clamp base ① up so that the hi-hat stand's vertical pipe can be clamped between the clamp base ① and open clamp ③. Then tighten the nut ② to secure the clamp base.
 - * Make sure that the main unit is set horizontally in relation to the cymbal support plate. If not, the RHH130 may not function properly, or cause the hi-hat shaft to bend.
4. Raise the clutch base ⑩ to a suitable height, and tighten the wing bolt ⑧ to secure the hi-hat shaft ⑨ to the clutch base. As the upper position of the clutch base represents the open hi-hat position (the space between the open cymbals), set the clutch base position according to your playing style.
 - * Setting too wide of a stroke may result in the clutch base making contact with the top unit inside of the cymbal pad and producing unexpected sounds while playing.

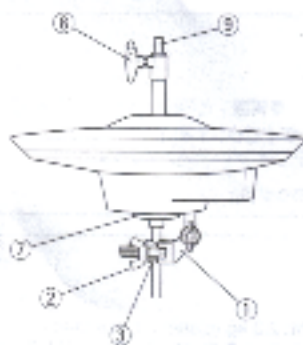
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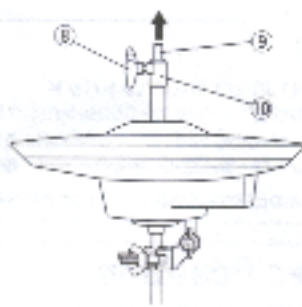
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3



4



Connections

Using the two supplied stereo phone cables, connect the RHH130's output jacks to the input jacks on your DTX Series Drum Trigger Module.

First, connect the RHH130's [PAD] output jack to the module's [HI HAT] input jack, then the RHH130's [HI-HAT CONTROL] output jack to the module's [HI HAT CONTROL] input jack. The L-shaped connectors should be connected to the RHH130.

- The RHH130 incorporates switches in its edge and controller sections. Make sure that a stereo phone cable is used when making connections between the RHH130 and the module. The RHH130 will not operate using a mono phone cable.

● Module Settings

Make changes to the settings below depending on the type of drum trigger module you are using. Refer to the owner's manual of your module for further information.

[DTXTREME II's, DTXPRESS IV]

- Special settings are not required. (The RHH130 is compatible with this module's factory settings.)

[DTXPRESS III]

- Set the Trigger Setup setting (refer to the Owner's Manual that came with the DTXPRESS III) to "4. SP Med."

The RHH130 is especially designed to take advantage of the powerful features offered by the DTXTREME II's and DTXPRESS III/IV. The RHH130 can be used with the older drum trigger modules listed below, as long as the settings are changed appropriately (also described below). However, be aware that the RHH130's performance will not be the same as that with the DTXTREME II's or DTXPRESS III/IV.

For the modules listed below, first proceed with the setting in Step 1.

In some cases, crosstalk generated from a foot-closed sound may trigger a hi-hat sound even though the setting in Step 1 has been carried out. If crosstalk is obvious, proceed to Step 2.

- Since the setting in Step 2 makes low velocity triggers harder to detect, we recommend that you experiment with the setting's values to best match your playing style and conditions.

[DTXPRESS II, DTXPRESS]

1. In the Utility Mode Hi-Hat Offset page, set the HH OffS value to "-5".
2. In the Trigger Setup Edit Mode Gain page, Minimum Velocity, set the Gain to "40%."

[DTXver.2]

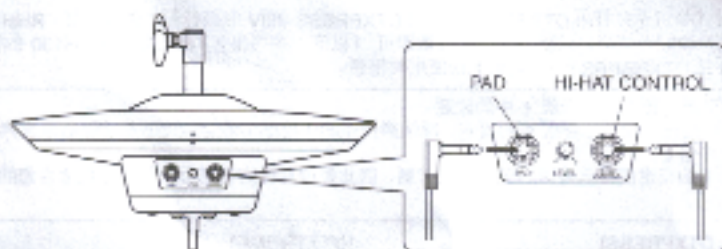
1. In the Utility Mode 8.FC offset page, set the FCoff-set value to "-5."
2. In the Trigger Edit Mode 5. Level Range page, set the minimum level to "20%."

[DTXTREME]

1. In the Utility Mode [UT 7] SYSTEM3 page, set the FCoffset value to "-5."
2. In the Trigger Edit Mode TrgSens2 (trigger sense 2) page, set the minimum level to "20%."

[DTXPLOER]

1. In the Trigger Setup Edit Mode [TRIG2] page, set the pad type (Type) to RHH.
 - The voice assigned to the rim section is not produced.



Output Level Adjustment

Control the level of the trigger output from the RHH130. Rotate the knob (1) to the right (+) to increase the output level, or to the left (-) to decrease it. The pad's output level should be adjusted depending on how hard you hit the pad, or to adjust the pad's dynamic range, or to better match the pad to the type of DTX Series Drum Trigger Module you are using.



Do not put excessive pressure on the level adjustment knob; doing so may result in damage.

NOTE: When the RHH130 is used with a DTX Series Drum Trigger Module, enter the module's Trigger Setup Edit display and set the Gain (pad input level) parameter so that the display reads 90-95% when the pad is struck strongly. Refer to the Owner's Manual that came with your module for more information. If the output level is too high, the pad's dynamic range (the difference between loud and soft sounds) will be reduced and problems such as double triggering (multiple triggers being produced by a single stroke) may occur.

SPECIAL MESSAGE SECTION

NOTICE:

Service charges incurred due to a lack of knowledge relating to how a function or effect works (when the unit is operating as designed) are not covered by the manufacturer's warranty, and are therefore the owners responsibility. Please study this manual carefully and consult your dealer before requesting service.

ENVIRONMENTAL ISSUES:

Yamaha strives to produce products that are both user safe and environmentally friendly. We sincerely believe that our products and the production methods used to produce them, meet these goals. In keeping with both the letter and the spirit of the law, we want you to be aware of the following:

Warning:

Do not attempt to disassemble.

Disposal Notice:

Should this product become damaged beyond repair, or for some reason its useful life is considered to be at an end, please observe all local, state, and federal regulations that relate to the disposal of products that contain plastics, etc. If your dealer is unable to assist you, please contact Yamaha directly.

NAME PLATE LOCATION:

The name plate is located on the bottom of the product. The model number, serial number, etc., are located on this plate. You should record the model number, serial number, and the date of purchase in the spaces provided below and retain this manual as a permanent record of your purchase.

Model : RHH130

Serial No.

Purchase Date :

PLEASE KEEP THIS MANUAL

For details of products, please contact your nearest Yamaha representative or the authorized distributor listed below.

Die Filiallisten zu Produktion sind bei Ihren unten aufgeführten Niederlassung und bei Yamaha-Vertragspartnern in den jeweiligen Ländern anzufordern.

Pour plus de détails sur les produits, veuillez vous adresser à Yamaha ou au distributeur le plus proche de vous agissant dans le territoire.

Para detalles sobre productos, consulte su tienda Yamaha más cercana o el listó de distribuidores que se lista debajo.

Per ulteriori dettagli sui prodotti, rivolgersi al più vicino rappresentante Yamaha oppure a uno dei distributori autorizzati elencati di seguito.

Neem voor details over producten abstractief contact op met uw dichtstbijzijnde Yamaha-vertegenwoordiging of de geautoriseerde distributeer in het onderstaande overzicht.

对于产品的详细情况，请向最近的YAMAHA代理商或下列经销商

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125 Milnes Avenue, Scarborough, Ontario,
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6600 Orange Grove Ave., Buena Park, Calif.
90620, U.S.A.
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