



UKKO DRUM CONTACT MICS
BY B-BAND



INSTALLATION INSTRUCTIONS

1/2008

HIGH TECHNOLOGY WITH SPIRIT

Congratulations and thank you for your purchase of this UKKO contact mic system for drums.

B-Band takes care to provide the highest quality product.

The outstanding sound reproduction of the B-Band UKKO contact mic is based on the technology of a novel, worldwide-patented hi-tech material exclusive to B-Band. This film is very different from piezo-electric films, transducers pickups and contact mics, and is entirely unique in the industry. This results in the excellent reproduction of your acoustic instrument's unique sound.

We at B-Band do truly hope you enjoy this product. Please contact us if you have any comments about this product.

B-Band is always ready to help you.

Yours sincerely,

Heikki Räisänen

Managing Director, B-Band Ltd.



GENERAL INFORMATION

This instruction guide is a very detailed and valuable reference for the installer and user. B-Band UKKO series drum mics can be easily installed by following these instructions.

SAFETY AND PRODUCT WARNINGS

Before installing or using any B-Band products this manual should be read carefully.

All UKKO preamps need 15 to 48- volts phantom power to work. Most modern mixers have phantom power.

B-BAND LTD. AND B-BAND, INC. WILL NOT BE RESPONSIBLE FOR ANY DAMAGES, PERSONAL INJURIES OR LIABILITIES RESULTING FROM INSTALLATIONS, IMPROPERLY DONE INSTALLATIONS OR MISUSE OF PRODUCT.

If you have any questions about installation or use, please contact a B-Band dealer, distributor or B-Band directly (B-Band contact numbers are at the back these instructions.)

The instrument to be fitted should be in good working order for the contact mic and preamp to install and sound correctly.

PACKAGE CONTENTS CHECKLIST

UKKO-PACK package contents:

- 5 pcs UKKO contact mic
- 10 pcs extra replacement tape for contact mic
- 1 pcs UKKO snare drum preamp
- 1 pcs UKKO kick drum preamp
- 3 pcs UKKO tom drum preamp
- 4 pcs UKKO rubber preamp rim clip
- 5 pcs long bolt
- 4 pcs short bolt
- 5 pcs nuts
- 2 pcs tool to open preamp
- 1 pcs instruction manual

UKKO-S package contents:

- 1 pcs UKKO snare drum preamp
- 1 pcs UKKO contact mic
- 2 pcs extra replacement tape for contact mic
- 1 pcs UKKO rubber preamp rim clip
- 1 pcs long bolt
- 1 pcs short bolt
- 1 pcs nut
- 1 pcs tool to open preamp
- 1 pcs instruction manual

UKKO-K package contents:

- 1 UKKO kick drum preamp
- 1 pcs UKKO contact mic
- 2 pcs extra replacement tape for contact mic
- 1 pcs long bolt
- 1 pcs nut
- 1 pcs tool to open preamp
- 1 pcs instruction manual

Note! No rim mount is included with the kick drum preamp. The kick drum preamp cannot mount at

the rim. The kick drum preamp can be mounted at the air hole or to drilled hole.

UKKO-T package contents:

- 1 UKKO tom drum preamp
- 2 pcs extra replacement tape for contact mic
- 1 pcs UKKO contact mic
- 1 pcs UKKO rubber preamp rim clip
- 1 pcs long bolt
- 1 pcs short bolt
- 1 pcs nut
- 1 pcs tool to open preamp
- 1 pcs instruction manual

UKKO contact mic package contents:

- 1 pcs UKKO contact mic
- 2 pcs extra replacement tape for contact mic

! READ ALL OF THESE INSTRUCTIONS CAREFULLY BEFORE STARTING INSTALLATION!

All B-Band UKKO contact mics are the same and work with all B-Band UKKO series preamps.

B-Band contact mics will only work with B-Band preamps.

Do not cut, pull, crimp or bend at a sharp angle UKKO contact mics.

B-Band UKKO contact mics can NOT be shortened or altered in any way. This will cause audible hum and void the warranty.

Long-time exposure of the UKKO contact mics to high- temperatures (over 50C / 120F) may reduce the output level permanently.

Before installation, make sure the instrument is in good working condition.

UKKO series preamps are phantom powered only. Useful voltage is 15 to 48 volts.

The kick drum preamp cannot mount at the rim. There is no rim mount for the kick drum. The kick drum preamp can be mounted at the air hole or to drilled hole.

GENERAL

Careful consideration of the placement of the preamp and contact mic should be done for all mounting options. The placement of the contact mic and preamp should insure that the contact mic reaches the preamp and that the preamp is out of the way of surrounding drums, or hardware, that could restrict the use of both, and that they do not restrict the players performance.

The UKKO preamp can be mounted at the rim, with the supplied rubber clip, or to the air hole or by drilling a hole at the shell (drill hole size 8 mm / 5/16"). Mounting the preamp to the rim with the supplied rubber clip is the easiest and most versatile placement. The clip is easily attached and removed for storage or moving to another drum equipped with a UKKO contact mic. You will have to open the preamp box to install or remove the contact mic connector every time you move the preamp.

Note! The kick drum preamp can not be mounted

at the rim. There is no rim mount for the kick drum. The kick drum preamp can be mounted at the air hole or to drilled hole.

Note! Regarding the kick drum, if you have a hole cut in the front head or if there is no front head, this will make the UKKO kick mic sound thinner. We recommend having a solid head on the front. If you need a hole for an additional mic, we'd recommend cutting the hole as small as possible.

The more permanent placement is to attach the preamp to the air hole or at the shell at a drilled hole. B-Band have provided a unique design for air hole mounting so the drum can still breathe.

If a permanent mounting is preferred and the air hole mounting option cannot be done, the preamp could be mounted at the shell by drilling a hole for it. This option should be considered carefully and we recommend that a consultation with a pro drum maker or repairman about this.

The design of the preamp is made so, at either of these permanent installs, the drum usually can fit in a case with preamp attached. It should be checked that it fits in a case.

Note! There are extra contact mic adhesive mounting tape pieces included with the



contact mics. These are made available in case you want to change the place of the contact mic, or change the mic to another drum. It is good to change the tape after use because the used tape will not stick so well again. Remove the old tape by carefully rubbing with thumb the edge of the tape at the "lead wire" side.



Slowly remove the rest of the tape in the same direction.

INSTALLATION

WITH RIM MOUNT

1. Remove the batter drumhead (the drumhead you beat on) and rim.
2. Check placement of contact mic and preamp. The contact mic's "lead wire" goes through the air hole to the preamp. Be sure that the "lead wire" and connector of the contact mic will reach where the preamp is going to be placed.

3. Check placement of contact mic and clean the area that the mic will be attached to.



4. The UKKO contact mic has tape on the back. The contact mic is attached to the inside of the drum on the shell or reinforcement rim parallel to and approximately 6mm (1/4") from the batter drumhead.

If the reinforcement rim is less in size than the height of the contact mic, then it should be mounted just below reinforcement rim.



5. The connector and lead wire from the contact mic goes through the air hole to the preamp. The air hole needs to be 5mm (0.197" or about 3/16") in diameter minimum for the connector plug to fit through.



6. Once the placement is found, remove the adhesive cover and stick to place.



7. The loose lead wire of the mic should be attached to the drum shell by using double-sided tape (not supplied).





8. Install drumhead and rim.

9. Using the supplied tool, open preamp by inserting at the slot at top, push in and turn carefully.



10. Take the shorter of the 2 pcs bolts and insert it into the hole at the center of the preamp and attach this to the rim mount with the nut.



11. Attach rim mount. Rim mount can be removed just by reversing the pictured process.



12. Connect mic to preamp to the horizontal pin connector with the holes at the mic connector facing out.



13. Set tone controls (mini switches - see page 14).



14. Attach preamp cover.



15. Plug in a XLR cable to the preamp and to a mixer, or other audio equipment, that can supply 15 to 48 volts phantom power to the preamp.

WITH PREAMP AT AIR HOLE OR DRILLED HOLE

Note! The following instructions are basically for air hole installation. A drilled-hole installation is the same, except the user drills a hole at the shell (drill hole size 8 mm / 5/16"). The preamp is attached to the drilled hole the same way as instructed for air hole mounting.

Careful consideration should be made of drilling a hole in the shell and the placement of the pickup and preamp.

If you are in doubt about drilling a hole in the shell of the drum, we recommend a consultation with a professional drum maker or repair tech.

1. Remove the batter drumhead (the drumhead you beat on) and rim.
2. Check placement of contact mic and clean the area that the mic will be attached to.
3. The UKKO contact mic has tape on the back. The contact mic is attached to the inside of the drum on the shell or reinforcement rim parallel to and approximately 6mm (1/4") from the batter drumhead. If the reinforcement rim is less size than the height of the contact mic, then it should be mounted just below reinforcement rim.



4. Once the placement is found, remove the adhesive cover and stick to place.





5. The loose lead wire of the mic should be attached to the drum shell by using double-sided tape (not supplied).

6. Open UKKO preamp.

7. Take the longer of the 2 pcs bolts and check that it fits to the air hole. It may be that at the air hole there is a decorative rivet or screw metal piece. If this metal piece does not allow the screw to fit, then consider removing the metal piece or mounting the preamp at the rim.

8. Next check at the preamp that the flange at the side of the preamp that faces the drum fits to the air hole.





If this does not fit, remove the flange carefully.



Remove the flange so that the preamp fits flush to the drum shell.



9. If the depth of the drum is so the preamp does not fit straight vertically between the bottom and top hoops, then, in most cases, the preamp can be rotated so it is angled to fit.



10. Thread the connector and lead wire from the contact mic through the nut.



Thread the connector and lead wire through air hole and hole at the middle of the preamp, keeping the preamp at the side of the shell. Bring enough of the lead wire out so that it can be inserted to the side slot of the bolt.

Note! The connector of the mic will not fit through the hole of the bolt. the bolt has a slot along the



the mic connector facing out.

13. Set tone controls (mini switches - see page 14).



side. Slide the mic lead wire sideways into the slot at the side of the bolt.

11. Insert bolt through the hole of the preamp and shell. Screw and tighten the nut to the bolt. Be



careful not to damage the lead wire.

12. Connect mic to preamp to the pin connector that is angled and pointing down with the holes at



14. Close preamp.



15. Install drumhead and rim.



16. Plug in a XLR cable to the preamp and to a mixer, or other audio equipment, that can supply 15 to 48 volts phantom power to the preamp.

MINI SWITCHES FOR TONE CONTOUR

UKKO preamps have mini switches inside that control the overall tone of the output signal.

Mini Switch Specifications:

UKKO-S Snare:



1. -6dB High Cut (shelving > 8 kHz) ON / OFF
2. +3dB Mid Boost 500 Hz (peaking Q ~1) ON / OFF

UKKO-T Tom:

1. +6dB High Boost 5 kHz (peaking Q ~1) ON / OFF
2. -6dB Mid Cut 1 kHz (peaking Q ~1) ON / OFF

UKKO-K Kick:

1. +6dB High Boost 5 kHz (peaking Q ~1) ON / OFF
2. -6dB Mid Cut 330 Hz (peaking Q ~1) ON / OFF

SPECIFICATIONS:

UKKO PREAMPS

- Frequency response:
 - UKKO-S: 60 Hz - 35 kHz (-3 dB)
 - UKKO-T: 22 Hz - 35 kHz (-3 dB)
 - UKKO-K: 22 Hz - 35 kHz (-3 dB)
- Phantom power required (All Preamps):
phantom powered 12 - 50 V.
- Output Impedance (All Preamps): 200 ohm
balanced
- Weight (All Preamps): 52 g. / 74 g. with
rim mount
- Dimensions (All Preamps):
 - 76 mm (3.00") / 48 mm (1.90") / 40 mm (1.60")
 - With rim mount: 102mm (4.00") / 48 mm (1.90")
/ 66 mm (2.60")

DRILL HOLE SIZE FOR INSTALLATION OF PREAMP TO DRUM SHELL:

8 mm / 5/16".



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