



ELECTRET TRANSDUCERS

**D1 DOUBLE BASS PICKUP SYSTEM BY B-BAND LTD.
INSTALLATION INSTRUCTIONS 01.08**

This is a basic installation manual and tip sheet. For more information, technical support, and pictures of installations about all B-Band products please check the B-Band website at www.b-band.com or contact your B-Band dealer, distributor or B-Band directly.

HIGH TECHNOLOGY WITH SPIRIT

Congratulations and thank you for your purchase of this D1 double bass pickup system.

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

The outstanding sound reproduction of the B-Band electret transducer pickups and contact mics 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.

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. Although the B-Band D1 double bass pickup system can be easily installed by following these instructions, we recommend that a professional instrument craftsman or technician do the installation.

SAFETY AND PRODUCT WARNINGS

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

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 these instructions.)

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

ABOUT THE D1

The D1 double bass system is comprised of a set of three B-Band pickups and D1 active preamp.

The two pickup bridge assembly mounts into the wing slots on the sides of the bridge. The sound produced from the bridge pickups is very defined with highs and mid-range.

The third (body) pickup mounts underneath the bass side bridge foot. The body pickup produces round and fat bass.

The D1 preamp is all one piece with its high quality $\frac{1}{4}$ " output jack. A 9-volt battery powers the D1. The D1 has a clip at the end of the $\frac{1}{4}$ " output jack. This clip allows the D1 preamp to be attached to the strings between the bridge and the tailpiece.



There is also a 9-volt battery holder that attaches to the back-side of the tailpiece with Velcro. The preamp powers up when a standard ¼" plug is inserted into the D1 output jack.

Inside the D1 preamp there is a user mix control that balances the input signal of the bridge and body pickups. With the use of a small screwdriver the adjustment of the mix control can be made. This adjustment will produce a blend of tone from the bridge and body pickups that will be unique to the user and instrument.

PACKAGE CONTENTS CHECKLIST

D1 package contents:

- 1 pcs D1 preamp
- 1 set of 2 D1 bridge pickups connected together
- 1 pcs D1 single foot pickup
- 1 pcs 9-volt battery pouch
- 1 pcs preamp mounting clip
- 4 pcs cork
- 2 pcs clear plastic tape
- 2 pcs thin wood veneer
- 1 pcs D1 instructions

! READ ALL OF THESE INSTRUCTIONS CAREFULLY BEFORE STARTING INSTALLATION!

The B-Band D1 pickups have all the same specifications and only work the D1 preamp.

The D1 system is powered by a 9-volt battery (not included).

B-Band pickups will only work with B-Band preamps.

Do not cut, pull, crimp or bend at a sharp angle B-Band pickups.

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

Long-time exposure of the B-Band pickups to high- temperatures

(over 50C / 120F) may reduce the output level permanently.

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

The operation and performance of the pickup system depends on a good installation and the construction and condition of the instrument.

It is very important that the body pickup is installed correctly and using original materials supplied the correct pressure is put on the pickup. If different material of type and size is used the correct pressure will not be put on the pickups and will cause problems, such as: too much output causing feedback; not enough pressure causing low output and hiss.

TOOLS AND MATERIALS NEEDED FOR D1 INSTALLATION

- Scissors
- Sand paper

INSTALLATION OF D1 PICKUPS

Note! D1 installation spacer accessories may look different in these pictures from the ones included in the package.

The D1 has 3 pickups. Two pickups, or bridge pickups (at one assembly), are for the wing slots at the upper part of the bridge. The separate third pickup, or body pickup, goes under the foot of the bridge on the side of the lowest pitched (normally E) string- from here on known as the "bass" foot. The opposite foot is the "treble" foot.

1. Lay the bass on it's back. The body pickup is the first to be installed.
2. The body pickup, which goes under the bass side foot, is smaller in width than the bass foot. Because of this, pieces of veneer need to be at each side of the pickup so the bass foot sits properly and with even pressure on the pick and the top of the bass.

3. Take 1 pcs of the clear plastic tape and 1 pcs of the wood veneer to make the body pickup assembly.



Take the tape and remove the adhesive cover.



With the adhesive side of the clear tape up, place the silver side of the body pickup on the tape.



5. Take 1 pcs of veneer to make shims, to be installed at both sides of the pickup. These are to insure that there is even pressure on the pickup. If you do not use the original spacers, there will be too much pressure on the pickup and it will not perform well. Using scissors cut the veneer in half.



6. Place the spacers on the tape at both side of the pickup.





7. Make the spacers the size of the pickup by cutting the excess veneer away.



Body pickup is ready for installation.



8. Loosen the strings of the bass and lift the bridge to install the body pickup. Make sure that the pickup and shims are even under the foot and the bridge feet are at their proper position on the bass.



9. Tighten the strings to hold the pickup assembly in place.



10. Installation of the bridge pickups can be done now. Install the bridge pickups to the wing slots by using two of the cork pieces supplied. You may need to adjust the cork thickness by sanding it. The pickup and the cork should fit somewhat tight (but not too tight!), to avoid any disturbing resonance. If thicker cork is needed, fashion shims from, for example, a wine cork.

11. At one bridge pickup, put 1 pcs cork at the top (black side) of the pickup and 1 pcs at the bottom (silver side) of the pickup



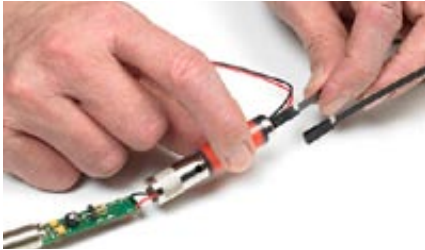
and install into the bridge slot with the silver side of the pickup facing down.



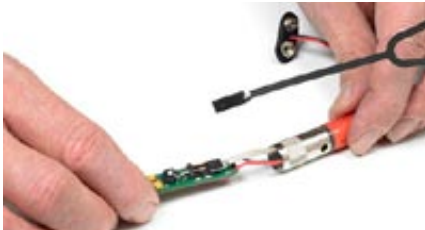
Do the same for the other pickup.



12. Next install the pickups to the preamp. Unscrew the preamp cover and thread the connectors of the pickups through the cover.



Connect the plastic connector of the body pickup, with the holes at the plastic connector facing up, to the lower set of pin headers at the circuit board.



Connect the plastic connector of the bridge pickups, with the holes at the plastic connector facing up, to the upper set of pin headers at the circuit board.



Screw on the cover.



NOTE! There is a small hole at the cover's side. This is an access hole to the blend control at the circuit board. Make sure that you tighten the cover enough so the hole is directly over the blend control.



13. Install the preamp to the middle strings behind the bridge by pinching both strings slightly inwards and connecting the clip to them.

14. Find a location of the backside of the tailpiece for the battery holder. Make sure that the battery wire lead will reach the battery holder. Clean the surface with a moist cloth and let the moist dry completely. Remove the protective liner from the double-sided tape and put the battery holder in place. Attach fresh 9-volt battery to snap-in connector and put it in the holder.

15. The D1 system is now ready to adjust. Plug the D1 system into an amplification system. Make sure that when starting the amp system's volume is turned down and the EQ is set at flat before powering up the system. Once powered-up, slowly up the volume, there should be sound. Check the sound closely.

16. With a small screwdriver, adjustment of the tone can be done at the D1 preamp. At the circuit board there is a small screw for balancing, or panning between, the body and bridge pickups that is accessible through the hole at the side of the preamp cover.



By turning the screw clockwise there is more of the body pickup. By turning the screw counter-clockwise, more of the bridge pickup will be heard.

17. Check the sound. If it needs more bass or a fatter sound, turn the screw clockwise for more of the body pickup. If it needs more highs or defined sound, turn it counter-clockwise, for more of the bridge pickups.

Note that the output level may vary depending of the position of the adjustment screw – this is part of how the system works. If the output level rises or lowers, re-adjust at the amp or mixer.

Concentrate on tone rather than output level. Body pickup output level may decrease to some extent during the first day of use. You may need to readjust.

18. Once your unique sound is dialed in, you are ready! So, keep it real and groove on brother!

TROUBLESHOOTING

No sound at all

- Check your amplifier and the cables you are using.
- Check that the battery is connected and has good power.

Resonance or Distortion

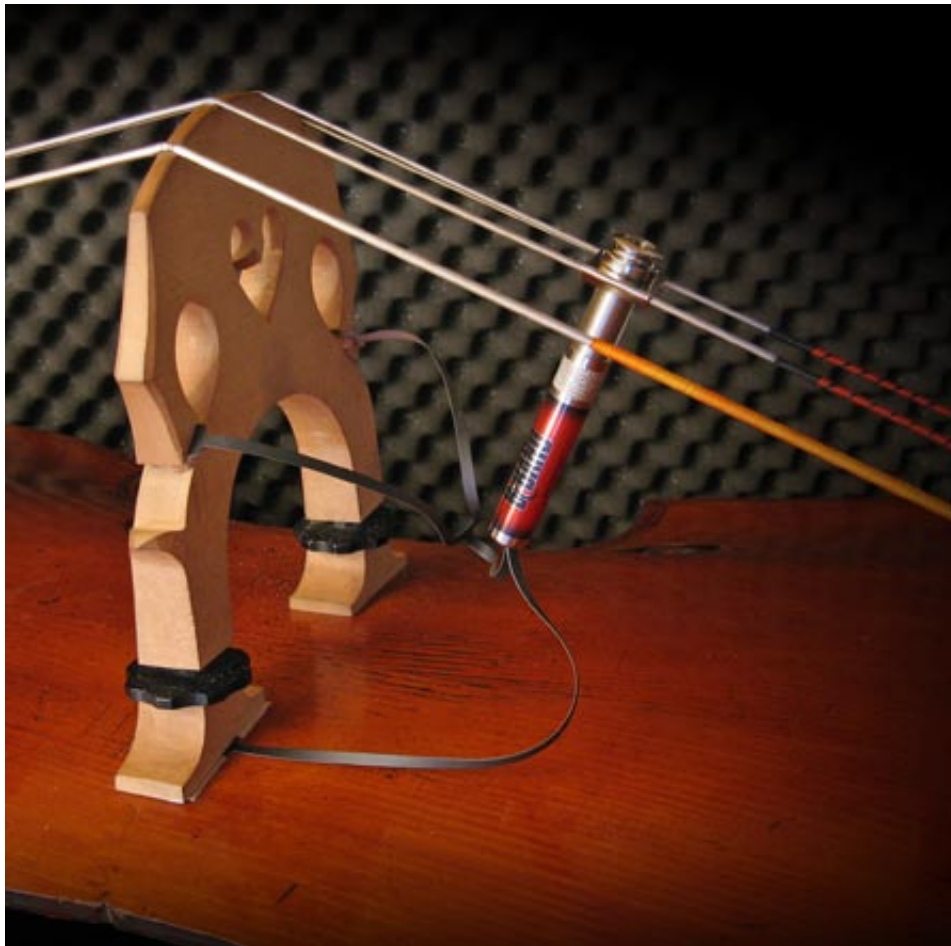
- Check that there are not any loose parts on your instrument.
- Check that the battery is not discharged. If the sound is noisy or distorted, replace the battery.

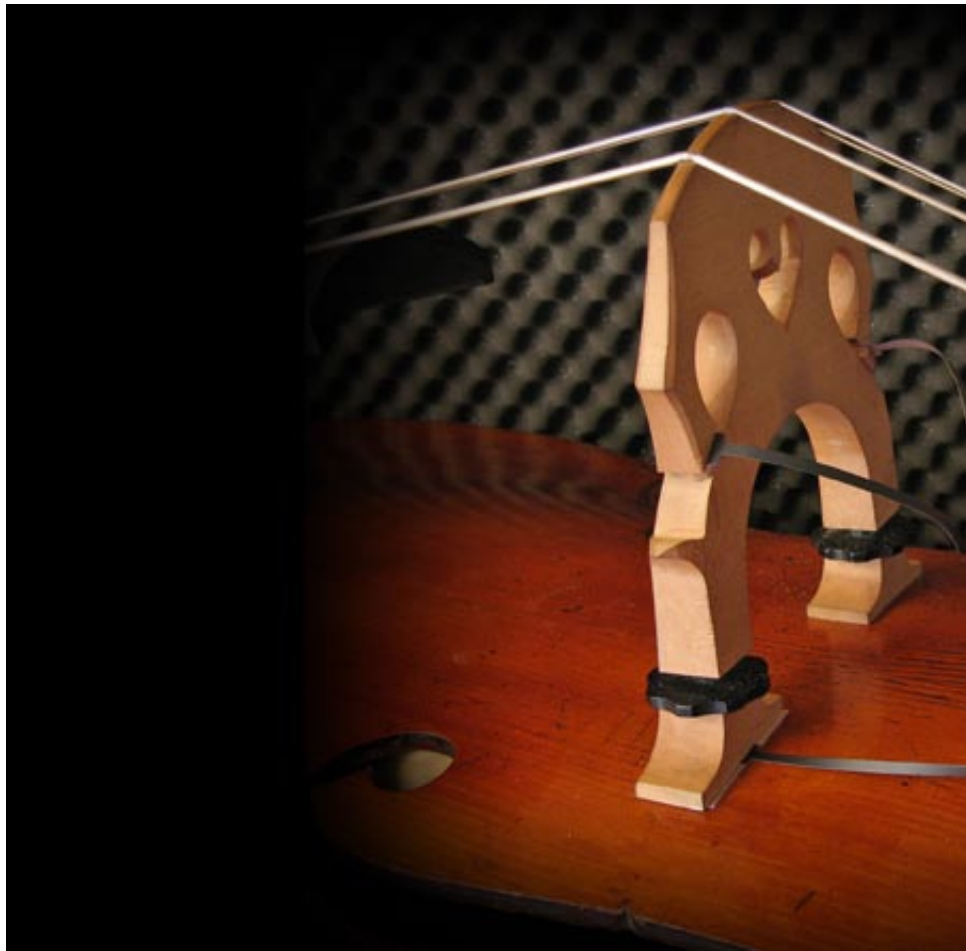
Other Problems

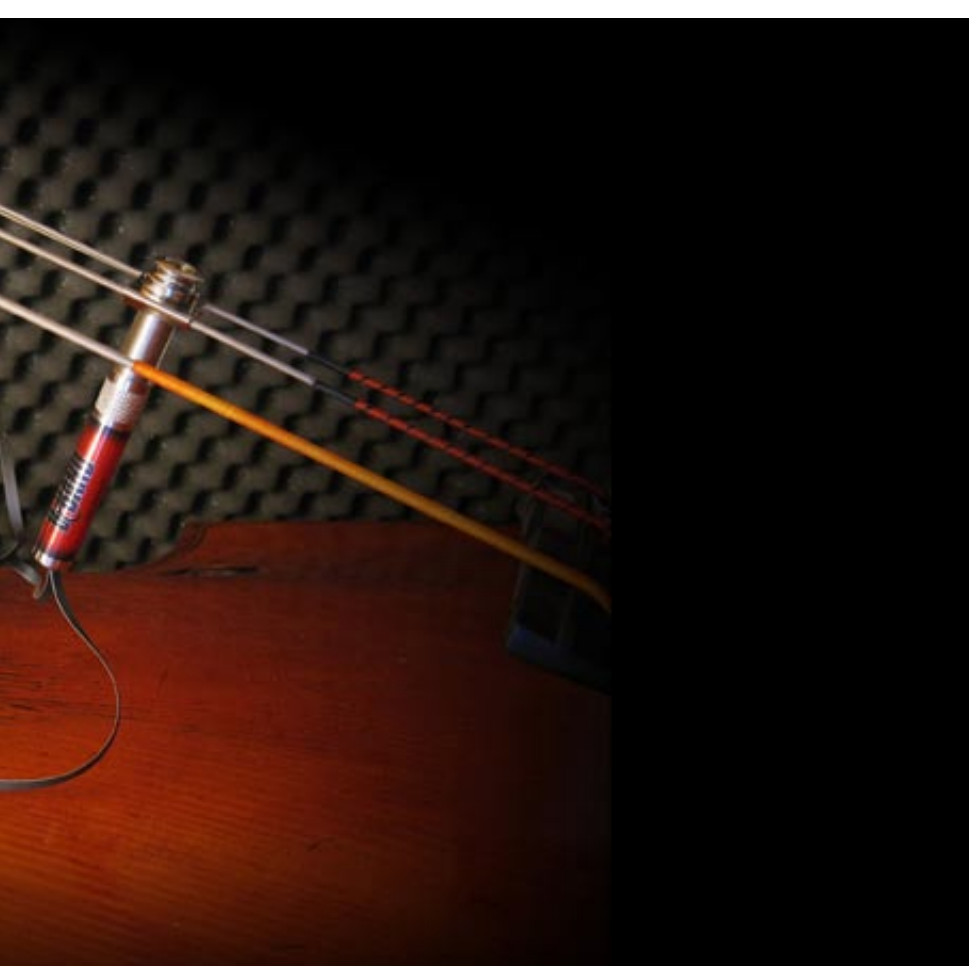
If you notice any other problems, please contact the dealer, distributor or B-Band for help.

D1 Specifications:

- Frequency response: 35 Hz – 20 kHz.
- Low-cut slope: -12 dB/oct.
- Voltage gain: 12 dB
- Input impedance: 50 M Ohm \parallel < 10 pF
- Output impedance 1 K Ohm
- Power supply: 9-volt battery (not included)
- Current consumption: 0.8 mA typical
- Weight: (with accessories): 57 g
- Dimensions: 13 x 89 mm









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