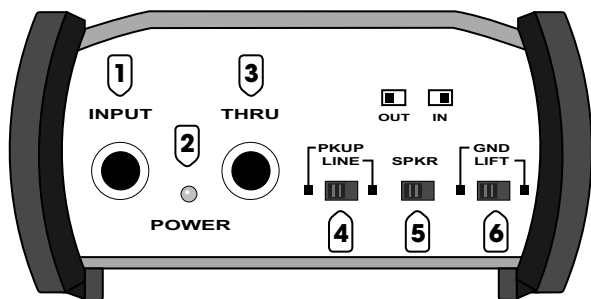


## instruction sheet

### FEATURES

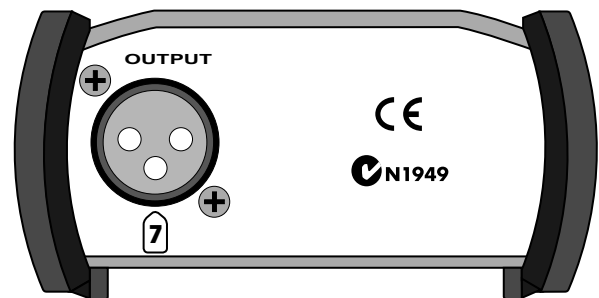
- Converts unbalanced line-level signals to balanced mic-level output
- Provides signal and impedance matching for the direct connection of instruments to amplifiers and mixers
- 1/4" Input jacks for connecting instrument or speaker-level signals (switch selectable)
- 1/4" Thru jack allows the unbalanced signal to be sent to an onstage amplifier while the balanced signal is sent to a mixer
- Ground Lift switch helps eliminate hum and buzz problems in musical instrument hookups
- Allows use of long cables without high-frequency loss
- The DB-1A can be powered either internally by two 9-volt batteries or externally by phantom power from a mixer
- The DB-1P passive model has a noise filter for reducing buzz and hiss (switch selectable)

### DB-1A



1. **INPUT** – Connect the signal source to this 1/4" unbalanced TS jack.
2. **POWER LED** – Indicates when the power is on. When powered from the internal batteries, it lights when a signal is plugged into the INPUT jack. When powered from a mixer's phantom power, it lights as long as the phantom power is applied.
3. **THRU** – This 1/4" unbalanced TS jack is in parallel with the INPUT jack and provides a "Thru" connection of the input signal for sending to an amplifier onstage.
4. **PKUP/LINE** – Move this switch to the left when connecting an instrument with a passive pickup, like an electric guitar. Move this switch to the right when connecting a line-level signal to the input.
5. **SPKR** – When connecting a speaker-level signal (for example, from a guitar amplifier's speaker output), move this switch to the right (IN).
6. **GND/LIFT** – This switch makes or breaks the input ground to pin 1 of the XLR output jack. When the switch is to the left, the ground is connected, and when the switch is to the right, the ground is disconnected (LIFTED).

7. **OUTPUT** – This balanced XLR jack provides a low-impedance mic-level signal for connecting to a microphone input on a mixer. If the mixer has phantom power, it can be used to power the DB-1A. Power automatically switches away from the internal batteries to save battery life.  
Pin 1 = Ground  
Pin 2 = Hot (+) and in-phase with the input signal  
Pin 3 = Cold (-)



#### TO INSTALL OR CHANGE THE BATTERIES:

1. Using a small phillips screwdriver, remove the four screws on each side and the two screws on the bottom of the DB-1A as shown in Figure 1.
2. Slide the tray out of the cover.
3. Install two 9-volt batteries into the battery clips and slide the batteries into the retaining bracket as shown.
4. Reassemble the DB-1A.

**CAUTION: Do not use longer screws than the original screws provided. Longer screws will short out the circuit board and void the warranty.**

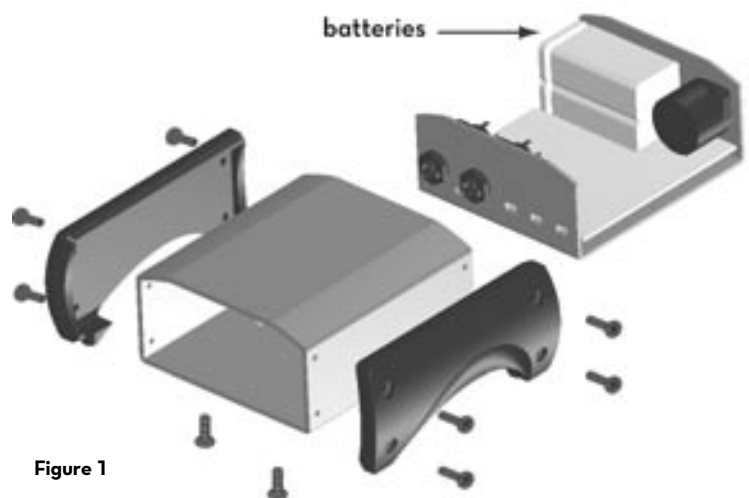
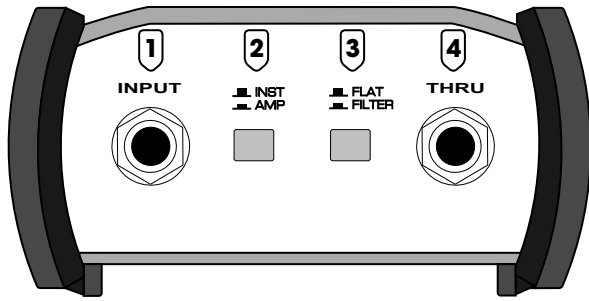


Figure 1

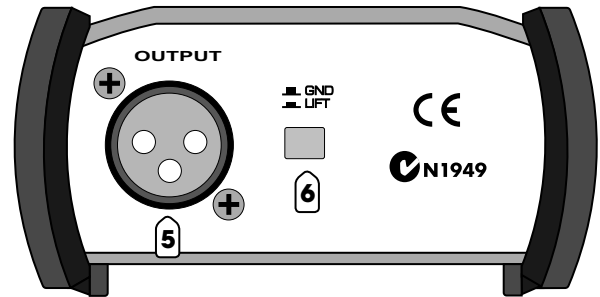


## DB-1P



1. **INPUT** – Connect the signal source to this 1/4" unbalanced TS jack.
2. **INST/AMP** – Leave this switch out when connecting an instrument or line-level signal to the INPUT jack. Push this switch in when connecting a speaker-level signal (for example, from a guitar amplifier's speaker output).
3. **FLAT/FILTER** – Push this switch in to engage a high-cut filter to reduce hiss and noise when using the AMP input setting. The filter has no effect when the input is set to INST (2).
4. **THRU** – This 1/4" unbalanced TS jack is in parallel with the INPUT jack and provides a "Thru" connection of the input signal for sending to an amplifier onstage.

5. **OUTPUT** – This balanced XLR jack provides a low-impedance mic-level signal for connecting to a microphone input on a mixer.  
Pin 1 = Ground  
Pin 2 = Hot (+) and in-phase with the input signal  
Pin 3 = Cold (-)
6. **GND/LIFT** – This switch makes or breaks the input ground to pin 1 of the XLR output jack. When the switch is in the OUT position, the ground is connected, and when the switch is pushed IN, the ground is disconnected (LIFTED).



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It is important to keep your receipt in a safe place, and not a bad idea to write your product information here for future reference (i.e., insurance claims, tech support, return authorization, etc.).

**PRODUCT SERIAL #:**

**PURCHASED AT:**

**DATE OF PURCHASE:**

# SPECIFICATIONS

## DB-1A

### Frequency Response:

100 Hz - 20 kHz (+/- 0.05 dBm)

20 Hz - 20 kHz (+/- 0.80 dBm)

### Maximum Input Level:

Pickup: +8 dBm

Line: +15 dBm

Speaker: +35 dBm

### Input Impedance:

Pickup: 10M ohm

Line: 10M ohm

Speaker: 11k ohm

### Gain:

Pickup: -8 dBm

Line: -28 dBm

Speaker: -48 dBm

### Residual Noise:

Pickup: -106 dBm

Line: -109 dBm

Speaker: -109 dBm

### Signal-to-Noise Ratio (with 15 dB headroom):

Pickup: -99 dB

Line: -109 dB

Speaker: -89 dB

**Rise Time:** 1 microsecond, no overshoot

**THD + Noise:** 0.01%

### Output Impedance:

200 ohms

### Power Requirements:

48 V phantom power or two 9 V batteries

**Battery Life:** 300 hours

**Current Draw:** < 7 mA DC

### Dimensions:

Height: 2.0 in/51 mm

Width: 4.3 in/109 mm

Depth: 4.0 in/102 mm

**Weight:** 14 oz

## DB-1P

### Frequency Response:

100 Hz - 20 kHz (+/- 0.05 dBm)

### Nominal Input Level:

Inst: 0 dBm

Amp: 0 dBm

### Nominal Output Level:

Inst: -21 dBm

Amp: -52 dBm

### Gain:

Inst: -21 dBm

Amp: -52 dBm

### Residual Noise:

Inst: -135 dBm

Amp: -135 dBm

**THD:** 0.01%

### Dimensions:

Height: 2.0 in/51 mm

Width: 4.3 in/109 mm

Depth: 4.0 in/102 mm

**Weight:** 12 oz

## Disclaimer

Since we are always striving to make our products better by incorporating new and improved materials, components, and manufacturing methods, we reserve the right to change these specifications at any time without notice.

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**Lonely? Looking for that special someone? Do you have a question about your TAPCO DI Box?**

Please call our Technical Support chaps at **1-877-827-2669**, Monday to Friday, from 7 am to 5 pm PST.

After hours, visit [www.tapcogear.com](http://www.tapcogear.com) and look under **Support**, or e-mail us at [techmail@tapcogear.com](mailto:techmail@tapcogear.com)

# TAPCO LIMITED WARRANTY

- A.** LOUD Technologies Inc. warrants all materials, workmanship and proper operation of this TAPCO product for a period of **one year** from the original date of purchase. If any defects are found in the materials or workmanship, or if the product fails to function properly during the applicable warranty period, LOUD Technologies, at its option, will repair or replace the product. **This warranty applies only to equipment sold and delivered within the U.S. by LOUD Technologies or its authorized dealers.**
- B.** Failure to register online or return the product registration card will not void the one-year warranty.
- C.** Service and repairs of TAPCO products are to be performed **only** at a factory-authorized service center. Unauthorized service, repairs, or modification will void this warranty. To obtain repairs under warranty, you must have a copy of your sales receipt from the authorized TAPCO dealer where you purchased the product. It is necessary to establish purchase date and determine whether your TAPCO product is within the warranty period.
- D.** To obtain factory-authorized service:
- 1.** Call TAPCO Technical Support at 877/827-2669, 7 AM to 5 PM Monday through Friday (Pacific Time) to get a Service Request Number. Products returned without a Service Request Number will be refused.
  - 2.** Pack the product in its original shipping carton. Also include a note explaining exactly how to duplicate the problem, a copy of the sales receipt with price and date showing, and your return street address (no P.O. boxes or route numbers, please!). If we cannot duplicate the problem or establish the starting date of your Limited Warranty, we may, at our option, charge for service time.
  - 3.** Ship the product in its original shipping carton, **freight prepaid**, to the authorized service center. The address of your closest authorized service center will be given to you by Technical Support.
- IMPORTANT: Make sure that the Service Request Number is plainly written on the shipping carton.**
- E.** LOUD Technologies Inc. reserves the right to inspect any products that may be the subject of any warranty claims before repair or replacement is carried out. LOUD Technologies may, at our option, require proof of the original date of purchase in the form of a dated copy of the original dealer's invoice or sales receipt. Final determination of warranty coverage lies solely with LOUD Technologies Inc.
- F.** TAPCO products returned to one of the LOUD Technologies factory-authorized service centers and deemed eligible for repair or replacement under the terms of this warranty will be repaired or replaced within thirty days of receipt. LOUD Technologies and its authorized service centers may use refurbished parts for repair or replacement of any product. Products returned to LOUD Technologies that do not meet the terms of this Warranty will not be repaired unless payment is received for labor, materials, return freight, and insurance. Products repaired under warranty will be returned freight prepaid by LOUD Technologies to any location within the boundaries of the USA.
- G.** LOUD Technologies warrants all repairs performed for 90 days or for the remainder of the original warranty period. This warranty does not extend to damage resulting from improper installation, misuse, neglect or abuse, or to exterior appearance. This warranty is recognized only if the inspection seals and serial number on the unit have not been defaced or removed.
- H.** LOUD Technologies assumes no responsibility for the quality or timeliness of repairs performed by Authorized TAPCO Service Centers.
- I.** This warranty is extended to the original purchaser and to anyone who may subsequently purchase this product within the applicable warranty period. A copy of the sales receipt is required to obtain warranty repairs.
- J.** This is your sole warranty. LOUD Technologies Inc. does not authorize any third party, including any dealer or sales representative, to assume any liability on behalf of LOUD Technologies or to make any warranty for LOUD Technologies Inc.
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**Please keep your sales receipt in a safe place.**