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Dayton Audio KAB-BE

Dayton Audio KAB-BE 18650 Battery Extension Board Instruction Manual

Model: KAB-BE

1. Product Overview

The Dayton Audio KAB-BE is a battery extension board designed to provide portable power for Dayton Audio KAB Bluetooth amplifier boards. It accommodates three 18650 Li-Ion batteries (sold separately) and features integrated protection circuits for safe and efficient operation.

Key Features:

- **Under/Over Voltage Protection:** Prevents overcharging and over-discharging of batteries, enhancing battery lifespan.
- **Voltage Balancing:** Ensures balanced discharge across all three batteries, even if individual battery capacities vary.
- **18650 Battery Compatibility:** Designed for three 18650 Li-Ion batteries (not included).
- **Direct KAB Board Connection:** Includes an 8-inch, 4-conductor cable for direct connection to compatible KAB Bluetooth amplifier boards.



Figure 1: Top view of the KAB-BE board, illustrating the three 18650 battery slots.

2. Setup Instructions

Follow these steps to properly set up your Dayton Audio KAB-BE battery extension board.

2.1 Battery Installation

1. Ensure the KAB-BE board is disconnected from any power source or amplifier board.
2. Insert three 18650 Li-Ion batteries (sold separately) into the designated slots on the KAB-BE board. Observe the polarity markings (+ and -) on the board and the batteries to ensure correct orientation. Incorrect installation can damage the board or batteries.



Figure 2: Detail of battery slots with polarity indicators.

2.2 Connecting to a KAB Amplifier Board

1. Locate the 4-conductor cable included with the KAB-BE board.
2. Connect one end of the 4-conductor cable to the corresponding port on the KAB-BE board.
3. Connect the other end of the 4-conductor cable to the battery input port on your Dayton Audio KAB Bluetooth amplifier board.





Figure 3: The 4-conductor cable for connecting to KAB amplifier boards.

2.3 Charging the Batteries

To charge the batteries installed in the KAB-BE board, use a**19 VDC, 1-5A power adapter**. Connect the adapter to the appropriate charging input on the KAB-BE board. The integrated protection circuits will manage the charging process.

3. Operating Instructions

Once connected and charged, the KAB-BE board provides power to your KAB amplifier board, enabling portable audio applications.

- The voltage balancing feature ensures consistent power delivery and prolonged listening times by managing the discharge rates of individual batteries.
- Multiple KAB-BE boards can be sequenced together to further extend operating time. Refer to the KAB amplifier board documentation for specific instructions on daisy-chaining battery boards.

4. Maintenance

The KAB-BE board is designed for low maintenance. The built-in under/over voltage protection circuits contribute to battery longevity by preventing common issues associated with Li-Ion battery usage.

- Regularly inspect the board and connections for any signs of damage or wear.
- Ensure batteries are properly seated in their slots.
- Store the board in a dry, temperate environment when not in use.

5. Troubleshooting

If you encounter issues with your KAB-BE board, refer to the following common troubleshooting tip:

Amplifier Board Not Powering Up After Battery Removal/Reinsertion:

If you remove and then reinsert batteries into the KAB-BE, the connected amplifier board may not power up immediately. To resolve this:

- Connect the 19 VDC charging adapter to the KAB-BE board momentarily. This will reset the protection circuit and allow the amplifier board to power on.

6. Specifications

Feature	Specification
Model Number	KAB-BE
Battery Type Supported	18650 Li-Ion (3 cells)
Charging Input	19 VDC, 1-5A (power adapter sold separately)
Included Cable	8-inch, 4-conductor
Board Dimensions (H x L x W)	2.68" x 3.61" x 1.15"
Overcharge Detection Voltage	4.235V
Overcharge Release Voltage	4.18V
Cell-Balance Detection Voltage	4.18V
Overdischarge Detection Voltage	2.8V
Overdischarge Release Voltage	3.0V

Feature	Specification
Weight	2.88 ounces

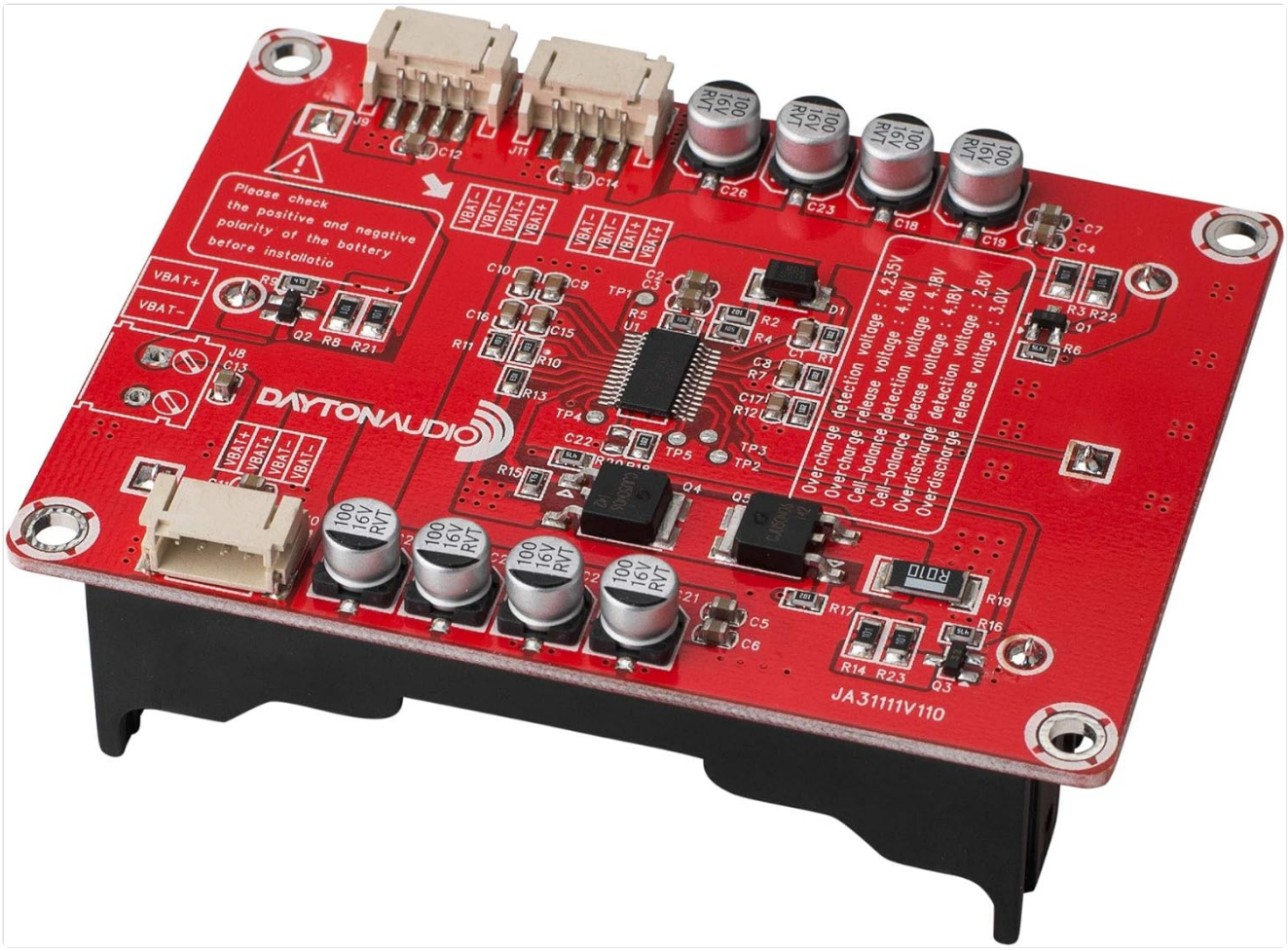


Figure 4: Bottom view of the KAB-BE board, detailing electronic components and protection circuit specifications.

7. Warranty Information

The Dayton Audio KAB-BE Battery Extension Board comes with the following warranty:

- **Parts:** 5 Years
- **Labor:** 5 Years

Please retain your proof of purchase for warranty claims. For detailed warranty terms and conditions, refer to the official Dayton Audio website or contact customer support.

8. Support

For further assistance, technical support, or inquiries regarding the Dayton Audio KAB-BE Battery Extension Board, please visit the official Dayton Audio store or contact their customer service department.

Dayton Audio Store: Visit the Dayton Audio Store on Amazon

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