

AMR INC DESIGN & MANUFACTURE FOR MINING WORLDWIDE

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BI-800 LOW BATTERY INDICATOR

AVAILABLE VOLTAGES: 128, 96, 46, 36, AND 24

THE BI-800 HAS THE FOLLOWING FEATURES:

1. The BI simply indicates low battery by blinking headlights every 15 seconds. It does not shut down the machine. (Optional: Sonalert Audible Beep Indicator)
2. Pressing the test switch can test the BI.
3. BI's are simply mounted with self-contained cable ties.
4. There is solid state protection for reverse polarity; fuse protected for over voltage.
5. BI's are factory set so that no calibration adjustment is needed for installation. However, it can field adjusted to compensate for battery aging.

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AMR BI LOW BATTERY VOLTAGE INDICATOR INSTALLATION INSTRUCTIONS

1. All wiring should be performed in accordance with applicable codes.
2. Be sure the unit has the proper voltage rating for your machine. (If there is any question as to the correct voltage, verify the voltage at the point where you wish to connect the black wire).
3. This unit must be mounted and connected inside the control station (i.e. inside the explosion proof electrical enclosure).
4. Secure the BI-800 using the cable ties mounted on the units.
5. Ensure that the unit is mounted so that nothing interferes with the test button.
6. Connect the black wire to the positive battery voltage and the white wire to negative battery.
7. Break the headlight circuit and connect the two green wires in the series with the headlight circuit (as shown in figure 1).

TEST PROCEDURE

After visually checking all wiring, depress the test button and hold it in. The lights should turn off, and stay off, after about 1 second. When the test button is released, the lights should again turn on.

CALIBRATION

The BI-800 should not need any calibration adjustment. However, if the battery voltage has dropped due to battery aging, the following procedure should be followed. *Note that this is a very sensitive adjustment.

- A. If the BI-800 indicates a low battery too late (i.e. if the battery goes low and the lights do not blink) turn the calibration knob one quarter turn clockwise.
- B. If the BI-800 indicates a low battery too early (i.e. the lights blink before the battery gets low) turn the calibration knob one quarter turn counter clockwise).

After any adjustment, the vehicle should be operated through several battery changes to verify whether it is adjusted properly.

