

Battery Eliminator for UM & UH Series Transmitters

- Allows external powering of Lectrosonics aluminum transmitters
- Standard 9 volt battery contacts and DC input jack on “dummy battery”
- Modified battery doors available for both Belt-Pack and Plug-On transmitters with flip-open style battery doors
- Preserves use with regular alkaline or lithium batteries

The ISO9VOLT battery eliminator allows Lectrosonics wireless transmitters with hinged battery doors designed for 9 volt batteries to be operated from external power sources. 10 to 18 volt DC is converted to regulated 9 volt DC to power the transmitter at the battery terminals inside the battery compartment. The modified door exposes the connector for the external power source yet still operates with regular dry cell batteries. The unit can supply up to 200 mA to work with the 250 mW transmitters. It is fused and protected from reverse polarity.

The unique design isolates the power ground from the audio ground in the transmitter allowing the unit to be used in “bag systems” common in field production. When the mixer, receivers and wireless transmitters in a bag are powered by a common battery, a ground loop is often created which can cause high frequency noise (whining or hiss) in the audio. The external DC is run through a low drop out 12 volt regulator, then passed on to a DC/DC converter that produces an 800kHz square wave. The square wave is passed through a transformer, rectified and then passed through a low dropout 9 volt regulator to produce the final DC power presented on the battery contacts.



The ISO9VOLTM model is a kit including the battery eliminator and a modified battery door that fits any Lectrosonics UM type belt-pack transmitter with a hinged type door as shown here.



“H” Kit:
Modified door for
Plug-On “UH”
transmitters

“M” Kit:
Modified door for Belt-Pack
“UM” transmitters

Note: The holes in these doors are larger than the ones supplied with the earlier BATTELM.

The battery eliminator has only been tested with Lectrosonics transmitter types shown here. Use with any other device will void the factory warranty. Lectrosonics will not accept responsibility for damage to nor ensure proper operation with any other devices.

NOT FOR USE WITH TRANSMITTERS THAT HAVE ROTATING TYPE BATTERY DOORS.

The ISO9VOLTH kit includes a modified battery door that fits any Lectrosonics UH type plug-on transmitters.



“H” KIT INSTRUCTIONS

Step 1:

Remove the four screws noted below and lift bezel from control panel.



Step 2:

Remove battery door and place modified battery door in exactly the same position. Make sure modified battery door is oriented the same way as standard door.

Place the bezel on top of the modified door and carefully tighten the four screws.



Step 3:

Insert the ISO9VOLT. The unit should look like the photo below.

Close the door and press down on it so it snaps into place and is flush with the bezel.



“M” KIT INSTRUCTIONS

Caution: When removing a standard door to replace with a modified door, proceed carefully as the metal spring and tabs can easily be bent with too much force.

Step 1:

Remove rear screw on bottom of case.



Note: Depending on date of manufacture, frequency adjustable models may or may not have a sliding door and bezel on this side. The screw is in the same location on both versions.

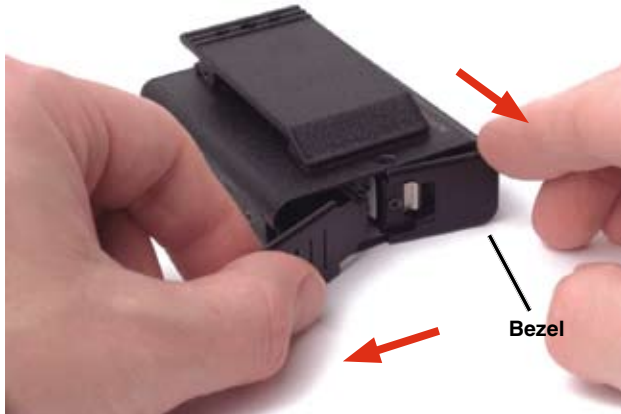
Step 2:

Open battery door and locate the screw that holds the spring to the case bottom. Loosen the screw several turns but **do not remove it**.



Step 3:

Place unit in a comfortable position while holding the bezel slightly away from the casing. Grip door with thumb and forefinger and gently slide it away from and out of the bezel. If the door does not slide out easily, pry the bezel out slightly with your fingernail.



Step 5:

Install the ISO9VOLT as shown so that the battery terminals match the contacts in the transmitter. The battery contact polarity is different on different models — connector will align with access hole in either orientation.



Step 4:

Grip modified door (has hole in it) with thumb and forefinger and gently slide door hinge into place. Be careful not to bend the spring or force the hinge. Make sure the hinge of the modified door fits behind the two little metal tabs (see inset). It will fit into place without much effort.



Re-align all parts before tightening screws. Tighten screw holding spring to the case bottom that was loosened in Step 2.

Replace and tighten screw on bottom of case that was removed in Step 1.

Specifications

Input:

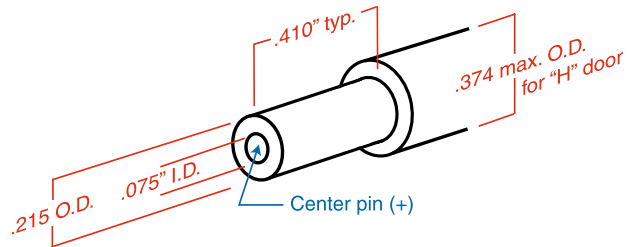
Minimum: 10.5 VDC
Maximum: 18 VDC
Connector: DC sleeve type

Output:

Voltage: 9 VDC regulated
Power: 200 mA maximum

Size and Weight:

Height: .67 in. (17 mm)
Width: .99 in. (25 mm)
Length: 1.76 in. (45 mm) housing only
1.91 in. (49 mm) including battery contacts
Weight: .6 ozs. (16.4 grams)



Mating Plug Dimensions and Polarity

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

