Bushman Electronics Inc.

December 2, 2017

BM9009 Kit

Dewalt™ 20V Max Battery Adaptor

- Enables using Dewalt™ 20V Max batteries in general applications.
- Mountable to flat panel or enclosure.
- Standard automotive blade fuse types, 5A max.
- Standard crimp quick connects 1/4" male tab
- 3D printed ABS body parts, black.
- ABS meets UL 94 V-0 flammability rating: UL file: E56070
- Integrated Circuit board BM821 included
- Mounting hardware included
- Drill template: "BM9009 drill template 02" included
- Requires Low Volts cutoff board BM824 (not included)
- Individual components and optional protective cover are available separately
- Handcrafted in Canada

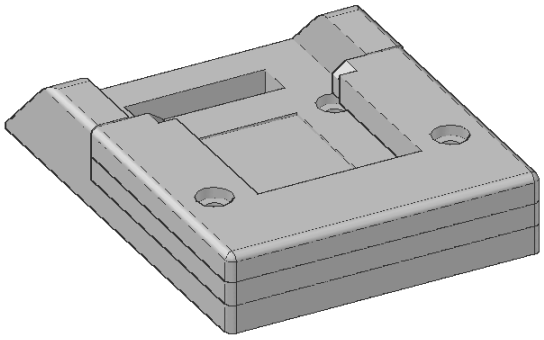

Figure 1

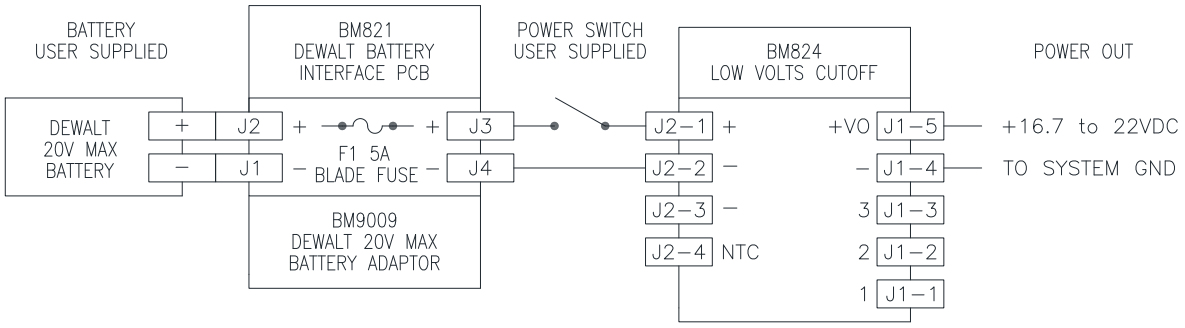

Figure 2
BM9009 Battery Adaptor with companion BM824 Low Volts Cutoff Board

QTY	MNF	P/N	DESCRIPTION	Notes
2	Spaenaur	MS-2361P	Screw phillips Panhead 6-32 x 7/8" Stainless	Or generic
2	Spaenaur	424-057	Screw phillips Panhead 6-32 x 1/2" Stainless	Or generic
4	Spaenaur	179-001	Nut 6-32 Nylon insert locknut Stainless Standard height	Or generic

Table 1
Screw lengths good for panel mounting up to 0.10" thick. Finger tighten only.

FUSE TYPES

Fuse holder accommodates a variety of automotive blade fuse types, among these: Littelfuse ATO 257, Bussmann ATC, APR, Littelfuse 891, 897, Bussmann ATM-LP, APS or equivalent. Littelfuse LP MINI® 891 - 2A is provided as standard. Maximum fuse current recommended is 5A.

CLEANING

3D printed ABS plastic and battery contacts can be cleaned with 99% Isopropyl Alcohol, rubbing alcohol or non abrasive soap and warm water. Cotton pads or Q-tips. Blow dry. Labels (adhesive) will withstand a quick wipe with Isopropyl. Do NOT use acetone or similar.

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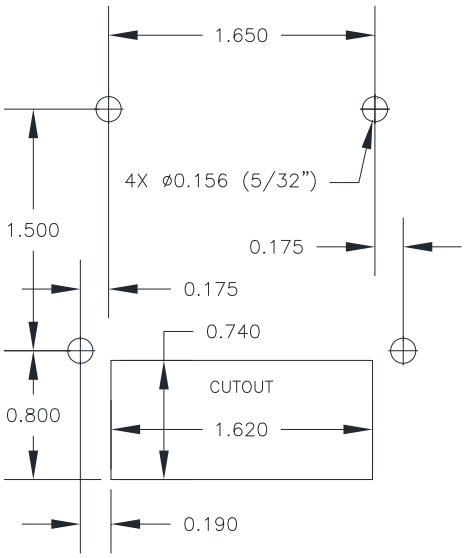

Figure 3
Hole placement dimensions NTS

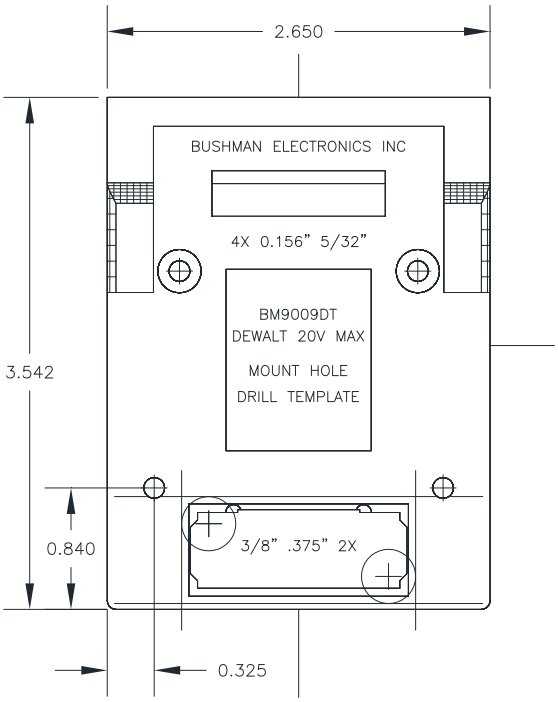

Figure 4
Overall dimensions NTS

Hole placement dimensions in Figures 3 & 4 as printed are Not To Scale and included for reference only.

Suggested or general instructions for using drill template (note: remember safety first etc.)
- Place 1 layer of painter's tape on panel or enclosure surface for protection from scratches while drilling, filing etc.
- Position and center drill template, then use tape to hold it down.
- Center punch all drill holes, then use a small drill bit (1/16") to pre-drill each hole.
- Drill all 6 holes for .156", then drill the two large holes for .375".
- Use a jigsaw with a fine metal blade for the cutout, then file edges straight & smooth using a single cut mill-file.
- Remove taped template.
- Deburr holes and file/adjust cutout for straightness as required etc. Clean and degrease.

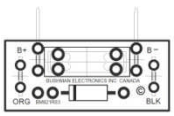

Figure 5
BM821

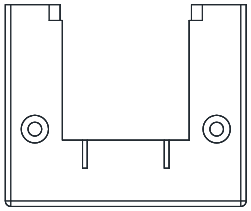

Figure 6
BM9009-1

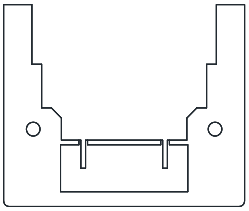

Figure 7
BM9009-2

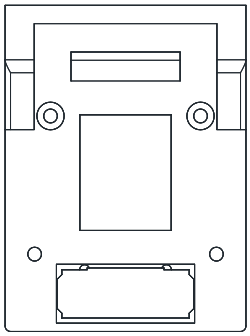

Figure 8
BM9009-3