Appendix C:
Fabrication Specifications
ECE 492 - Spring 2016

Accumulator
  Accumulator Mechanical
  PacMan Gerber Plots
    Front Copper
    Back Copper
    Front Mask
    Back Mask
    Front Silk
    Back Silk
    Edge Cuts

Control Panel Gerber Plots
  Front Copper
  Back Copper
  Front Mask
  Back Mask
  Front Silk
  Edge Cuts
Add .126 in thru-holes as dimensioned in drawing.
Modify existing part by converting sets of four existing holes to slots as indicated. (Current holes make outside edge of slot with correct radius)

<table>
<thead>
<tr>
<th>Approval For Manufacture</th>
<th></th>
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<tbody>
<tr>
<td>Position</td>
<td>Signature</td>
</tr>
<tr>
<td>Designer:</td>
<td></td>
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<tr>
<td>Team 2nd:</td>
<td></td>
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<tr>
<td>ECE Advisor:</td>
<td></td>
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<tr>
<td>ME Advisor:</td>
<td></td>
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</tbody>
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<table>
<thead>
<tr>
<th>TOLERANCE EXCEPT AS NOTED:</th>
<th>Aluminum Jumper Slotted</th>
<th>MATERIAL: Old version (Provided)</th>
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</thead>
<tbody>
<tr>
<td>3 PLACE DECIMAL:</td>
<td>+/- .001</td>
<td>DWG.#: L15-TSV-34.1 REV.10</td>
</tr>
<tr>
<td>2 PLACE DECIMAL:</td>
<td>+/- .02</td>
<td>QUANTITY NEEDED: 6</td>
</tr>
<tr>
<td>FRACTIONAL:</td>
<td>+/- 1/32</td>
<td>PART NO: L16-TSV-34</td>
</tr>
<tr>
<td>DEBUR ALL SHARP EDGES</td>
<td></td>
<td>DRAWN BY: Ben Prevoznak</td>
</tr>
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<td></td>
<td>SCALE: 1:1</td>
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<tr>
<td></td>
<td>LAFAYETTE COLLEGE ENGINEERING</td>
<td>DATE: 3/15/16</td>
</tr>
</tbody>
</table>
Modify existing part by making the center cut-out wider to be 0.95" wide and 1.275" from each side. Slots are added to the top to replace the holes. The old holes should line up with the outer-most edge of each slot.

Approval

Drawn by: _______________________
Group: _______________________
ME: _______________________
ECE: _______________________

TOLERANCE EXCEPT AS NOTED: MATERIAL:
3 PLACE DECIMAL: +/- .001 DWG.#: L15-TSV-35 REV.
2 PLACE DECIMAL: +/- .02 QUANTITY NEEDED: 1 FILENAME: UConnectorStrap.ipt
FRACTIONAL: +/- 1/32 PART NO: L15-TSV-35 DRAWN BY: Kailan Ottaway
DEBUR ALL SHARP EDGES SCALE: 1:1 DATE: 4/28/15

LAFAYETTE COLLEGE ENGINEERING
TOLERANCE EXCEPT AS NOTED: LCD Bracket Milled

- 3 PLACE DECIMAL: +/- .001
- 2 PLACE DECIMAL: +/- .02
- FRACTIONAL: +/- 1/32
- DEBUR ALL SHARP EDGES

MATERIAL: 0.9 x 4.1 x 5/8" Garolite

DWG.#: L15-TSV-38.1 REV.10
FILENAME: L16-TSV-38.1.ipt
DRAWN BY: Ben Prevoznak

QUANTITY NEEDED: 1
PART NO: L16-TSV-38

SCALE: 1:1
DATE: 5/6/15

Approval For Manufacture

Position | Signature
---|---
Designer: |
Team 2nd: |
ECE Advisor: |
ME Advisor: |
TOLERANCE EXCEPT AS NOTED:  LCD Bracket  MATERIAL:  4.1x.9 x 5/8" Garolite
3 PLACE DECIMAL:  +/- .001  DWG.#:  L15-TSV-39.1  REV.1
2 PLACE DECIMAL:  +/- .02  QUANTITY NEEDED:  1  FILENAME  L16-TSV-39.1.ipt
FRACTIONAL:  +/- 1/32  PART NO: L16-TSV-39  DRAWN BY: Ben Prevoznak
DEBUR ALL SHARP EDGES  LAFAYETTE COLLEGE ENGINEERING  SCALE: 1:1  DATE: 5/6/15
Modify Existing Piece by cutting material off top an bottom, adding holes and milling slot.
Note that Holes in the corners already exist, and are not located symmetrically.

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<td>FRACTIONAL:</td>
<td>+/- 1/32</td>
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<tr>
<td>DEBUR ALL SHARP EDGES</td>
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Airs Replacement Bar Mount

MATERIAL: Garolite

DWG.#: L15-TSV-40.1  REV.1
FILENAME: L16-TSV-40.1.ipt
DRAWN BY: Ben Prevoznak
SCALE: 1:1  DATE: 4/28/15

LAFAYETTE COLLEGE ENGINEERING
NOTE: All interior fillets .125
Approval For Manufacture

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<td>ME Advisor:</td>
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Top Bar of Cell Retainer (Alt. Side)

<table>
<thead>
<tr>
<th>TOLERANCE EXCEPT AS NOTED:</th>
<th>Top Bar of Cell Retainer (Alt. Side)</th>
<th>MATERIAL: 1 x .75 Aluminum Bar</th>
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</thead>
<tbody>
<tr>
<td>3 PLACE DECIMAL: +/- .001</td>
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<td>DWG.#: L15-TSV-3.1 REV.10</td>
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<td>2 PLACE DECIMAL: +/- .02</td>
<td>QUANTITY NEEDED: 1</td>
<td>FILENAME L16-TSV-3.1.ipt</td>
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<td>FRACTIONAL: +/- 1/32</td>
<td>PART NO: L16-TSV-3</td>
<td>DRAWN BY: Ben Prevoznak</td>
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<td>DEBUR ALL SHARP EDGES</td>
<td>LAFAYETTE COLLEGE ENGINEERING</td>
<td>SCALE: 1:2.5 DATE: 3/12/15</td>
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</table>
TOLERANCE EXCEPT AS NOTED:

3 PLACE DECIMAL: +/- .001
2 PLACE DECIMAL: +/- .02
FRACTIONAL: +/- 1/32
DEBUR ALL SHARP EDGES

Top Bar of Cell Retainer

MATERIAL: 1 x .75 x 19.25 Aluminum

DWG.#: L16-TSV-4.1
FILENAME: L16-TSV-4.1.ipt
PART NO: L16-TSV-4
DRAWN BY: Ben Prevoznak
SCALE: 1:3
DATE: 3/10/16

LAFAYETTE COLLEGE ENGINEERING
TOLERANCE EXCEPT AS NOTED:

3 PLACE DECIMAL: +/- .001
2 PLACE DECIMAL: +/- .02
FRACTIONAL: +/- 1/32
DEBUR ALL SHARP EDGES

Mounting Bar for Internal Wall
QUANTITY NEEDED: 2
PART NO: L16-TSV-6

MATERIAL: .5 x .5 x 6.3 Bar
DWG.#: L15-TSV-6.1
FILENAME: L16-TSV-6.1.ipt
DRAWN BY: Ben Prevoznak
SCALE: 1:1
DATE: 3/10/16
1/4-20 UNC - 2B \( \varnothing 1.125 \pm 0.125 \) (TAP AT BOTH ENDS)
TOLERANCE EXCEPT AS NOTED:  Airs Replacement Bar  
3 PLACE DECIMAL:  +/- .001  
2 PLACE DECIMAL:  +/- .02  
FRACTIONAL:  +/- 1/32  
DEBUR ALL SHARP EDGES  
MATERIAL:  1 x .5 x 4.25 Aluminum  
DWG.#:  L15-TSV-31.1  
FILENAME:  L16-TSV-31.1.ipt  
PART NO:  L16-TSV-31  
DRAWN BY:  Ben Prevoznak  
PATTERNED FOR MANUFACTURE  
Position  Signature  
Designer:  
Team 2nd:  
ECE Advisor:  
ME Advisor:  
SCALE:  1:1  
DATE:  4/28/15
Approval

Drawn by: __________________________

Group: __________________________

ME: __________________________

ECE: __________________________

TOLERANCE EXCEPT AS NOTED: MATERIAL: Aluminum
3 PLACE DECIMAL: +/- .001 DWG.#: L15-TSV-33 REV. 1
2 PLACE DECIMAL: +/- .02 QUANTITY NEEDED: 1 FILENAME L16-TSV-33.0.ipt
FRACTIONAL: +/- 1/32 PART NO: L16-TSV-33 DRAWN BY: Kailan Ottaway
DEBUR ALL SHARP EDGES LAFAYETTE COLLEGE ENGINEERING SCALE: 1:1 DATE: 3/14/16
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<th>No.</th>
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<td>10</td>
<td>L15-TSV-19.1</td>
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TOLERANCE EXCEPT AS NOTED:
- MATERIAL: ALUMINUM
- DWG. #: REV.
- QUANTITY NEEDED: FILENAME: battery housing ASSY (4-8-2015)
- FRACTIONAL: +/-.1/32 PART NO: TSV HOUSING ASSY
- DEBUR ALL SHARP EDGES DRAWN BY: A. FREDDIE HEISS
- LAFAYETTE COLLEGE ENGINEERING DIVISION SCALE: 1:5 DATE: 4/20/2015
WARNING! TRACTIVE SYSTEM VOLTAGE!