<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>Description</th>
<th>QTY.</th>
<th>Pg.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Half sphere shell bottom</td>
<td>1</td>
<td>16</td>
</tr>
<tr>
<td>2</td>
<td>Circuit board</td>
<td>1</td>
<td>N/A</td>
</tr>
<tr>
<td>3</td>
<td>Circuit board (3 boards2)</td>
<td>2</td>
<td>N/A</td>
</tr>
<tr>
<td>4</td>
<td>Circuit board (pic chip)</td>
<td>1</td>
<td>N/A</td>
</tr>
<tr>
<td>5</td>
<td>GPS</td>
<td>1</td>
<td>N/A</td>
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<tr>
<td>6</td>
<td>GPS antanna</td>
<td>1</td>
<td>N/A</td>
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<tr>
<td>7</td>
<td>Transceiver</td>
<td>1</td>
<td>N/A</td>
</tr>
<tr>
<td>8</td>
<td>Transceiver antanna</td>
<td>1</td>
<td>N/A</td>
</tr>
<tr>
<td>9</td>
<td>Plexiglass sensor bracket</td>
<td>1</td>
<td>N/A</td>
</tr>
<tr>
<td>10</td>
<td>Half sphere shell top</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>11</td>
<td>Fin</td>
<td>4</td>
<td>2</td>
</tr>
</tbody>
</table>

**Diagram**

- **SECTION A-A**

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Descent Probe

Material: LDPE
Finish: Fin
Scale: 1:2

Sheet 2 of 20
# Descent Probe

**Material:**

**Finish:**

**Scale:** 1:5

## Sheet 2 of 20

### Comments:

**Description:**

Half Sphere Top

**Part #:**

---

### Table

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>DESCRIPTION</th>
<th>QTY.</th>
<th>Pg.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Half sphere shell top</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>2</td>
<td>Parachute tube</td>
<td>1</td>
<td>8</td>
</tr>
<tr>
<td>3</td>
<td>Fastener top</td>
<td>4</td>
<td>5, 6</td>
</tr>
<tr>
<td>4</td>
<td>Attachment bracket</td>
<td>4</td>
<td>7</td>
</tr>
</tbody>
</table>

**Dimensions are in inches**

**Tolerances:** ± .01 unless noted otherwise

---

**Drawing Information:**

- **Drawn:** 5/4/2006
- **Checked:**

---

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OF

Senior Design

UNIVERSITY OF IDAHO

Polycarbonate

Finish:

Material:

Descent Probe


Shell Top

Part #:

Scale: 1:5

TOLERANCES:

DIMENSIONS ARE IN INCHES

± .01 UNLESS NOTED OTHERWISE

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UNIVERSITY OF IDAHO
Senior Design

Material: Polycarbonate
Finish: 
Scale: 1:2

Description: Fastener (Reference)
Part #: 

Comments: This drawing shows intermediate step in manufacturing of part

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TOLERANCES: ± .01 UNLESS NOTED OTHERWISE

Descent Probe

3/26/2006

Part #:

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**Description:**
Descent Probe

**Material:**
6061 Aluminum

**Finish:**

**Scale:**
1:5

**Comments:**

**DIMENSIONS ARE IN INCHES**

**TOLERANCES:**
± .01 UNLESS NOTED OTHERWISE

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<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>DESCRIPTION</th>
<th>QTY.</th>
<th>Pg.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Main parachute</td>
<td>1</td>
<td>N/A</td>
</tr>
<tr>
<td>2</td>
<td>Pilot parachute tube</td>
<td>1</td>
<td>11</td>
</tr>
<tr>
<td>3</td>
<td>Pilot parachute lid</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>4</td>
<td>Pilot parachute</td>
<td>1</td>
<td>N/A</td>
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<tr>
<td>5</td>
<td>Main parachute tube</td>
<td>1</td>
<td>10</td>
</tr>
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</table>

DIMENSIONS ARE IN INCHES

TOLERANCES: ± .01 UNLESS NOTED OTHERWISE

Material:

Finish:

Scale: 1:2

**Descent Probe**

UNIVERSITY OF IDAHO

Senior Design

Description: Parachute Tube Assembly

Part #:
∅ 0.500 holes spaced in an orderly pattern to reduce weight

DIMENSIONS ARE IN INCHES
TOLERANCES:
± .01 UNLESS NOTED OTHERWISE

Material:
Plastic

Finish:

Scale: 1:2

Descent Probe
UNIVERSITY OF IDAHO
Senior Design

Description:
Main Parachute Tube

Part #:
### DESCRIPTION

<table>
<thead>
<tr>
<th>QTY.</th>
<th>Description</th>
<th>Pg.</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Cardboard pilot tube</td>
<td>12</td>
</tr>
<tr>
<td>1</td>
<td>Engine support</td>
<td>13</td>
</tr>
<tr>
<td>1</td>
<td>Pilot parachute assembly bottom</td>
<td>14</td>
</tr>
<tr>
<td>1</td>
<td>Pilot parachute assembly top</td>
<td>15</td>
</tr>
<tr>
<td>2</td>
<td>Engine body</td>
<td>N/A</td>
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</tbody>
</table>
DIMENSIONS ARE IN INCHES
TOLERANCES: ± .01 UNLESS NOTED OTHERWISE

Material: Cardboard
Finish:
Scale: 1:2

Description: Cardboard Pilot Parachute Tube
Part #: Descent Probe

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Descent Probe

Material: HDPE
Finish:
Scale: 1:1

Comments:

Dimensions are in inches
Tolerances: ±.01 unless noted otherwise

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Descent Probe

Material: HDPE
Finish:
Scale: 1:2

Dimensions are in inches. Tolerances: ±.01 unless noted otherwise.

Comments:

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ITEM NO. | DESCRIPTION               | QTY. | Pg. |
---------|---------------------------|------|-----|
 1       | Half sphere shell bottom  | 1    | 17  |
 2       | Sensor boom               | 2    | N/A |
 3       | Battery pocket            | 1    | 18  |
 4       | Lead weight               | 1    | 19  |
 5       | Batteries                 | 14   | N/A |
 6       | Fastener bottom           | 4    | 5,20|

DIMENSIONS ARE IN INCHES

TOLERANCES: ± .01 UNLESS NOTED OTHERWISE

Material: 
Finish: 
Scale: 1:5
4x .25" holes drilled parallel to slice plane of the top of shell
Description: Descent Probe

Material: HDPE

Finish:

Scale: 1:2

TOLERANCES: ± .01 UNLESS NOTED OTHERWISE

DIMENSIONS ARE IN INCHES

<table>
<thead>
<tr>
<th>Description</th>
<th>4/6/2006</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Pocket</td>
<td></td>
</tr>
</tbody>
</table>

Part #: 

Comments:

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Descent Probe

DIMENSIONS ARE IN INCHES
TOLERANCES: ± .01 UNLESS NOTED OTHERWISE

Material: Lead
Finish:
Scale: 1:2

NAME  DATE
DRAWN  3/50/2006
CHECKED

Comments:

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Descent Probe

Material: Polycarbonate
Finish:

Scale: 1:1

Description: Fastener (Bottom View)

Part #:

Comments:

TOLERANCES: ± .01 UNLESS NOTED OTHERWISE

DIMENSIONS ARE IN INCHES

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