

Team Assignment #1

Team: Power Train Team

Team Members: James Darnell, Donald Lamb, Phil Harrison, Iam Seamans

Assignment: Produce Detail Drawings and Assembly Drawings as described below for the following item: **Parallax Continuous Servo and Wheel**
In particular, provide the following:

1) **Detail Drawings for the following parts:**

- A. Servo body
- B. Servo horn
- C. Servo screw
- D. Wheel that mounts on servo

Notes on Detail Drawings:

- Measure each part by hand as accurately as possible
- Look for measurements online from the manufacturer
- Ask the instructor if you need help on measuring a feature or specifying dimensions.
- Use good dimensioning practices in dimensioning each part
- Pick appropriate colors (to match the actual appearance if possible)
- Include a top, front, side, and isometric view for each part
- Each team member should author each part (clearly specified in title block)
- Title block should include part name, team name, author name, course number, and scale.

2) **Assembly Drawings as follows:**

- A) Assembly consisting of servo body, servo horn, and servo screw
- B) Assembly consisting of servo body, servo horn, and wheel

Notes on Assembly Drawings:

- Create the assembly so that parts can move in the manner intended
- The assembly drawing should consist of only an isometric with a parts list and balloons identifying each part.
- Title block should include assembly name, team name, author name, and course number.
- No dimensions or scale are required for assembly drawings.

Items to turn in:

- Detail drawings for each part
- Assembly drawings

Team Assignment #1

Team: Ball Collection Team

Team Members: John Monahan, Chris Johnson, Joe Cofer, Joe Lewis

Assignment: Produce Detail Drawings and Assembly Drawings as described below for the following item: **Fan**

In particular, provide the following:

1) **Detail Drawings for the following parts:**

- A. Fan Housing
- B. Fan blade
- C. Fan motor
- D. Wire & connector

Notes on Detail Drawings:

- Measure each part by hand as accurately as possible
- Look for measurements online from the manufacturer
- Ask the instructor if you need help on measuring a feature or specifying dimensions.
- Use good dimensioning practices in dimensioning each part
- Pick appropriate colors (to match the actual appearance if possible)
- Include a top, front, side, and isometric view for each part
- Each team member should author each part (clearly specified in title block)
- Title block should include part name, team name, author name, course number, and scale.

3) **Assembly Drawings as follows:**

Assembly consisting of fan housing, fan blade, fan housing, and the wire & connector

Notes on Assembly Drawings:

- Create the assembly so that parts can move in the manner intended
- The assembly drawing should consist of only an isometric with a parts list and balloons identifying each part.
- Title block should include assembly name, team name, author name, and course number.
- No dimensions or scale are required for assembly drawings.

Items to turn in:

- Detail drawings for each part
- Assembly drawings

Team Assignment #1

Team: Chassis Team

Team Members: Beau Hoyt, Eric Porter, Xay Alderman, Imran Aziz

Assignment: Produce Detail Drawings and Assembly Drawings as described below for the following item: **Board of Education**

In particular, provide the following:

1) **Detail Drawings for the following parts:**

- A. Circuit board (base for all parts)
- B. Breadboard
- C. 9V battery connectors – male
- D. 9V battery connector - female
- E. 5V regulator with heat sink
- F. Capacitor
- G. Headers (1 x 16, 1 x 13, 2 x 10)
- H. AC adaptor connector
- I. Serial cable connector
- J. 3-position switch
- K. Reset button
- L. LED
- M. Servo Ports (2)
- N. Basic Stamp Chip

Notes on Detail Drawings:

- Measure each part by hand as accurately as possible
- Look for measurements online from the manufacturer
- Ask the instructor if you need help on measuring a feature or specifying dimensions.
- Use good dimensioning practices in dimensioning each part
- Pick appropriate colors (to match the actual appearance if possible)
- Include a top, front, side, and isometric view for each part
- Each team member should author each part (clearly specified in title block)
- Title block should include part name, team name, author name, course number, and scale.

4) **Assembly Drawings as follows:**

- A) Assembly consisting of base plus all parts

Notes on Assembly Drawings:

- Create the assembly so that parts can move in the manner intended
- The assembly drawing should consist of only an isometric with a parts list and balloons identifying each part.
- Title block should include assembly name, team name, author name, and course number.
- No dimensions or scale are required for assembly drawings.

Items to turn in:

- Detail drawings for each part
- Assembly drawings

Team Assignment #1

Team: Accessories Team (formerly Steering Team)

Team Members: Chris Bellmore, Stephan Villemil, Johathan Amory, Khoa Nguyen

Assignment: Produce Detail Drawings and Assembly Drawings as described below for the following item: **AA Battery, 9.6V Battery Pack, and 4-AA Battery Holder**

Also produce a detail drawing for the Sharp GP2D120 distance sensor.

In particular, provide the following:

1) **Detail Drawings for the following parts:**

- A. AA Battery
- B. 9.6V Battery Pack with connector
- C. 4-AA Battery Holder (with springs compressed as if batteries were installed)
- D. Sharp GP2D120 Distance Sensor

Notes on Detail Drawings:

- Measure each part by hand as accurately as possible
- Look for measurements online from the manufacturer
- Ask the instructor if you need help on measuring a feature or specifying dimensions.
- Use good dimensioning practices in dimensioning each part
- Pick appropriate colors (to match the actual appearance if possible)
- Include a top, front, side, and isometric view for each part
- Each team member should author each part (clearly specified in title block)
- Title block should include part name, team name, author name, course number, and scale.

5) **Assembly Drawings as follows:**

Assembly consisting of 4 AA batteries and one 4-AA battery holder

Notes on Assembly Drawings:

- Create the assembly so that parts can move in the manner intended
- The assembly drawing should consist of only an isometric with a parts list and balloons identifying each part.
- Title block should include assembly name, team name, author name, and course number.
- No dimensions or scale are required for assembly drawings.

Items to turn in:

- Detail drawings for each part
- Assembly drawings