

Chapter 4

ELECTRIC CIRCUIT

A. Draw Lines For Battery Symbol.

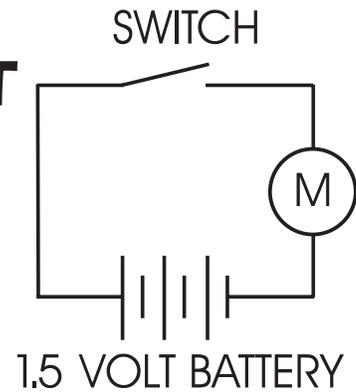
Step 1. MAIN MENU.

Step 2. Create.

Step 3. Line.

Step 4. Endpoints.

Step 5. Draw the lines for the **battery symbol** in **Fig. 1**. Use the grid to determine the location of the lines.



B. Save Your File.

Step 1. MAIN MENU.

Step 2. File.

Step 3. Save.

Step 4. Key-in **circuit** file name and press ENTER.

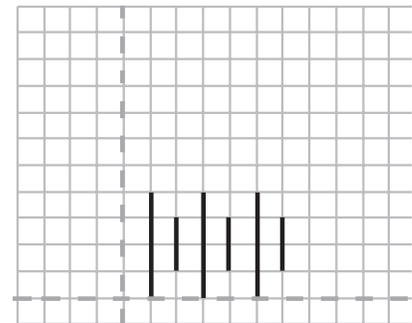


Fig. 1

C. Draw Lines For Wire And Switch Symbol.

Step 1. MAIN MENU.

Step 2. Create.

Step 3. Line.

Step 4. Endpoints.

Step 5. Draw the lines for the wire and switch in **Fig. 2**. Use the grid to determine the location of the lines.

Step 6. Save your drawing. Use **Alt-A** and press ENTER.

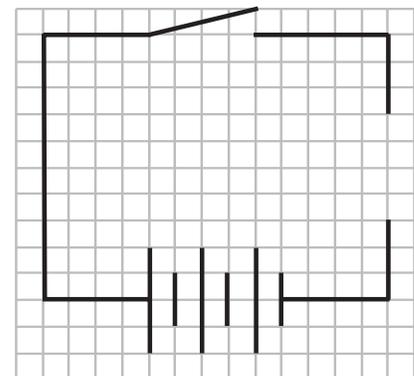


Fig. 2

Fit on Screen ALT-F1

Delete F5

Repaint F3

Zoom In F1

Unzoom Page Down

Mastercam ELECTRIC CIRCUIT Page 4-1

Brookside Middle School Tech Ed

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D. Motor Symbol.

Step 1. MAIN MENU.

Step 2. Create.

Step 3. Arc.

Step 4. Circle Point and Diameter.

Step 5. Key-in **.8** for diameter and press ENTER.

Step 6. Move the cursor to center location for the motor symbol and click, **Fig. 3**.

Step 7. Save your drawing. Use **Alt-A** and press ENTER.

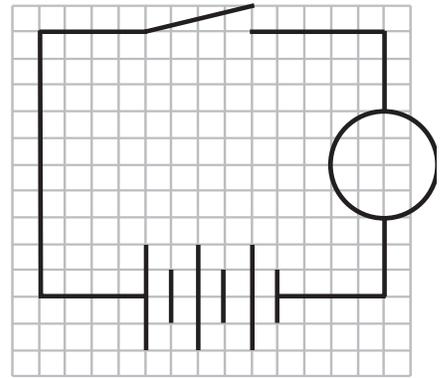


Fig. 3

E. Turn Off Snap.

Step 1. Turn off the Snap. Use **ALT-G**. Hold down ALT and press G.

Step 2. Click to **uncheck Active grid** in Snap Properties., **Fig. 4**.

Step 3. Click OK.

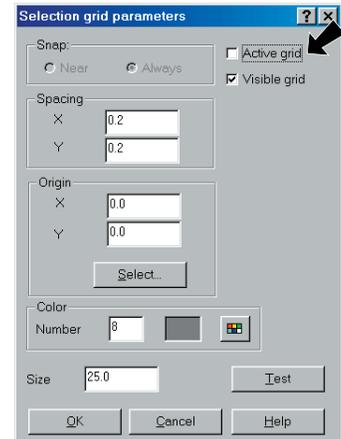


Fig. 4

F. Add Names Of The Electric Symbols.

Step 1. MAIN MENU.

Step 2. Create.

Step 3. Drafting.

Step 4. Note.

Step 5. Lock the Caps, key-in: **SWITCH** and click OK.

Step 6. Use **Page Down** key to reduce the drawing.

Step 7. Center the text over the **switch symbol** and click, **Fig. 4**.

Step 8. Note.

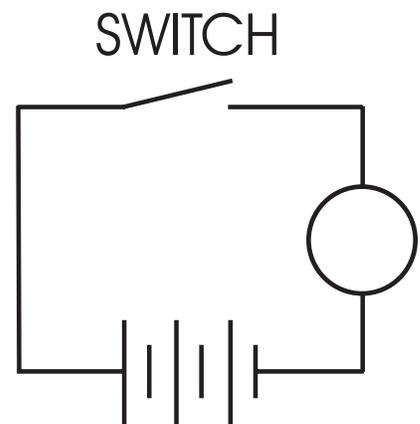


Fig. 5

Step 9. Add notes for the **MOTOR, 1.5 VOLT BATTERY** and place a **M** in the center of the motor symbol. Click Note to enter new text, **Fig. 5**.

Step 10. Save your drawing. Use **Alt-A** and press ENTER.

G. Add Your Names And The Period To The Drawing.

Step 1. MAIN MENU.

Step 2. Create.

Step 3. Drafting.

Step 4. Note.

Step 5. Lock the Caps, key-in: DRAWN BY: FIRST AND LAST NAME AND FIRST AND LAST NAME AND PERIOD 1 (or whatever your period is).

Step 6. Click OK.

Step 7. Use **Page Down** key to reduce the drawing.

Step 8. Center the text at the bottom of the drawing and click.

Step 9. Save your drawing. Use **Alt-A** and press ENTER.

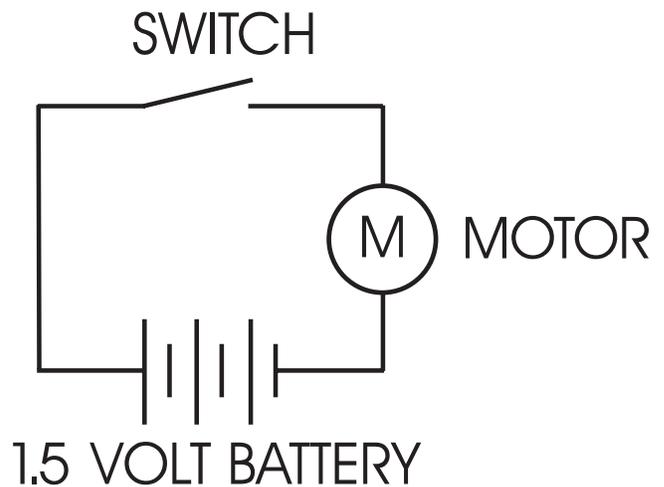


Fig. 5