

Electric Circuit

A. Set Grid and Snap .2.

Step 1. If necessary start a new Mastercam file, click File Menu > New .

Step 2. Use **Alt-G** to display Grid dialog box, **Fig. 1**

Check **Active grid**

Check **Visible grid**

Set **X and Y Spacing .2**

click OK .

B. Draw Lines For Battery Symbol.

Step 1. Click Create Menu > Line > Endpoint. Or click Line Tool

 in the toolbar.

Step 2. Draw **6 lines** for **battery symbol** in **Fig. 2**. Use grid to determine location of lines.

C. Save As "CIRCUIT".

Step 1. Click File Menu > Save As.

Step 2. Key-in **CIRCUIT** for the filename and press ENTER.

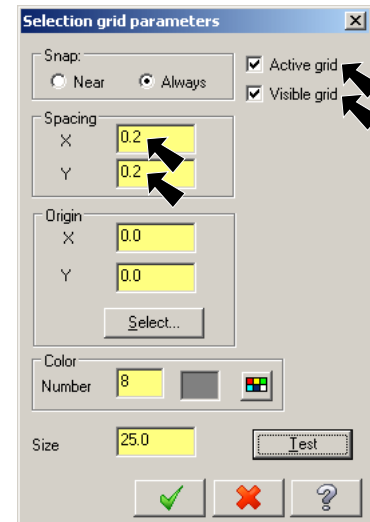
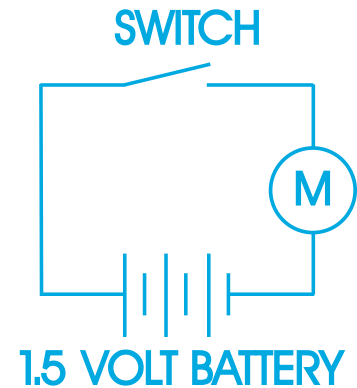


Fig. 1

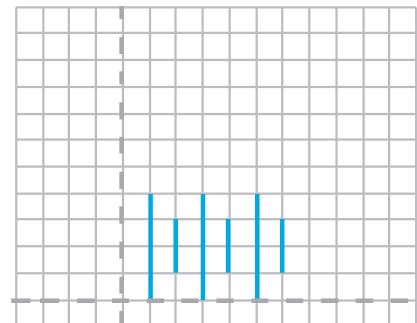


Fig. 2

D. Draw Lines For Wire And Switch Symbol.

Step 1. Click Create Menu > Line > Endpoint. Or click Line Tool



in the toolbar.

Step 2. Draw lines for **wire and switch** in **Fig. 3**. Use grid to determine location of lines.

Step 3. Save  (Alt-F S).

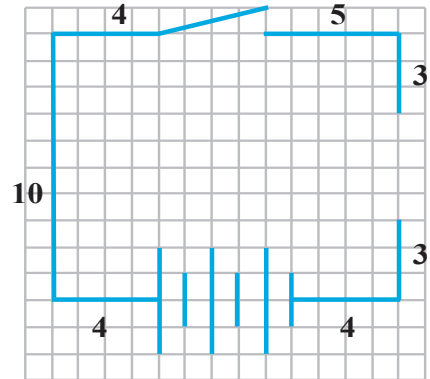


Fig. 3

E. Motor Symbol.

Step 1. Click Create Menu > Arc > Circle Center Point.

Step 2. Key-in .8 for diameter



and press ENTER,
Fig. 4.

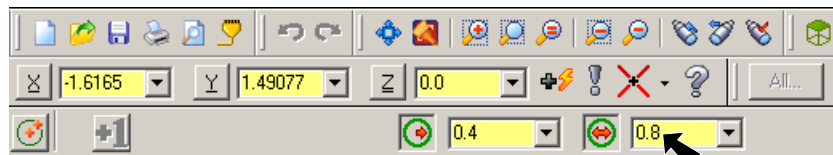


Fig. 4

Step 3. Move cursor to center location for motor symbol and click, **Fig. 5**.

Step 4. Click OK  in ribbon bar to fix entity and close ribbon bar.

Step 5. Save  (Alt-F S).

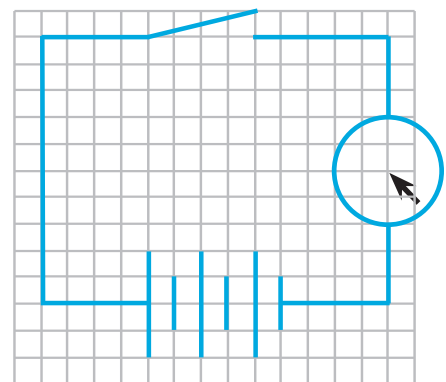


Fig. 5

F. Turn Off Snap.

Step 1. Turn off Snap. Use ALT-G.

Step 2. **Uncheck Active grid** in Grid dialog box, **Fig. 6**.

Step 3. Click OK .

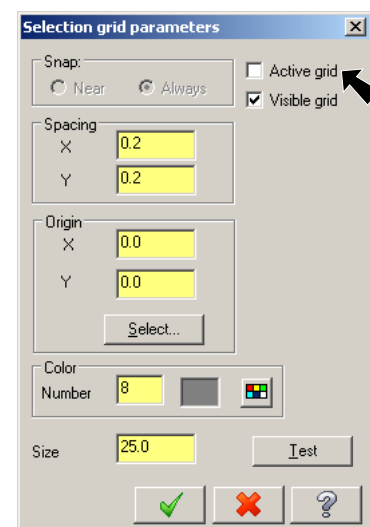


Fig. 6

G. Name Electric Symbols.

Step 1. Click Create Menu > Drafting > Note.

Step 2. In the Note Dialog box, **Fig. 7**
Lock Caps on keyboard and key-in
SWITCH

select **Multiple Notes**

click OK .

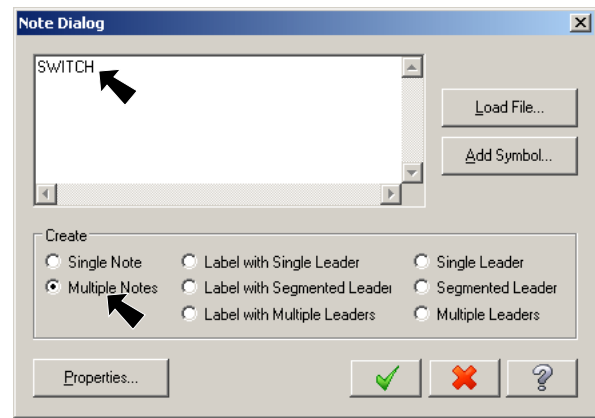


Fig. 7

Step 3. Use **Page Down** key to zoom out.

Step 4. Center text above **switch** symbol and click, **Fig. 8**.

Step 5. Click **Adjust Text**  in Drafting ribbon bar to enter text for next Note, **Fig. 9**.

Step 6. Add notes for:

MOTOR

1.5 VOLT BATTERY

M in the center of the motor symbol

click **Adjust Text**  to enter new text, **Fig. 10**.

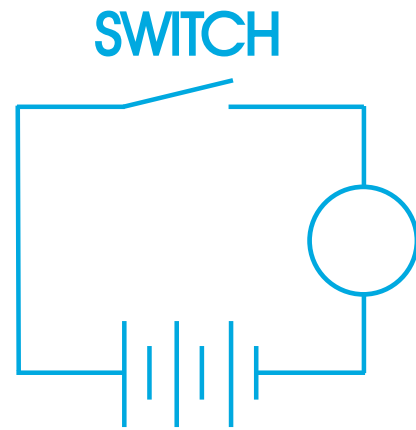


Fig. 8



Fig. 9

Step 7. Save . Use **Alt-F S**.

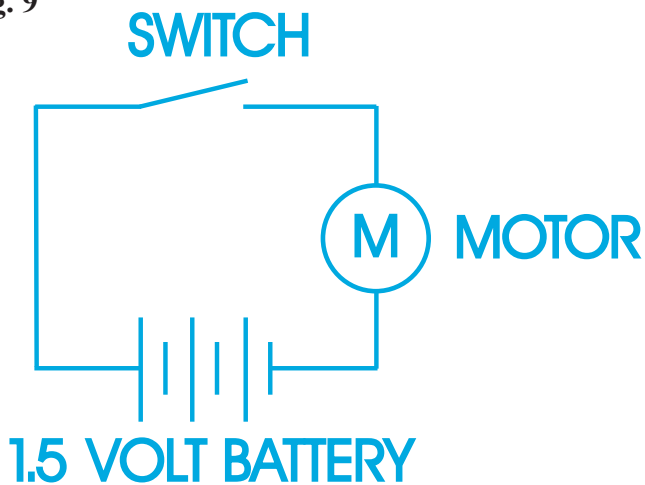


Fig. 10