

# Mark the Robot

## Materials:

- Body
- 1 - Cordless telephone handset or TV remote control.
- 2 of 1" - #4 flat head screws and 2 of 3/8" #4 round head screws

## Tools:

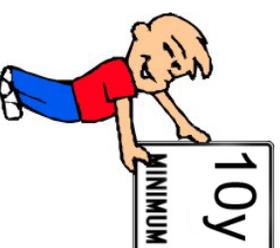
- Hacksaw with fine tooth blade (24 teeth per inch)
- Electric drill (5/64", 1/8" and 3/8" drill bits)
- Center punch or 2" common nail.
- Small hammer
- 1 flat blade screwdriver
- 1 robertson yellow screwdriver
- Small vice

## Arms

- 2 -3/4 diameter felt markers or 3 1/4" X 5/8"
- rubber hose.
- 2 - 12 mm rollie eyes
- 1 - 3/4 x 3/8 plastic bottle cap or similar piece for nose

## Feet

- 2 – pieces of venetion blind base or 2 dominos
- Plastic glue (eg Testers
- Cement for Plastic Models)
- Masking Tape.



*Remember that portable phone or remote that died? They can come alive as Mark the Robot*

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### Preparation:

#### A) Felt markers

- 1) Remove end plugs with flat screw driver and discard ink pads
- 2) Cut markers  $2\frac{3}{8}$ " from shoulder with hack saw. (see diagram) Use vice to hold marker steady
- 3) Cut small end of caps to create 1" hands
- 4) Reinstall end plugs and caps
- 5) Marked with centre punch,  $\frac{1}{4}$ " from end of arms, for arm pivots drill  $\frac{1}{8}$ " holes.
- 6) Counter sink one side using  $\frac{3}{8}$ " drill bit.

#### B) Telephone Handset or TV Remote (robot body)

- 1) At a point  $2\frac{1}{4}$ " from upper end of handset and midway front to back drill  $\frac{5}{64}$ " holes for arm mounting screws.
- 2) At a point  $2\frac{1}{8}$ " from lower end and centered, drill a  $\frac{3}{8}$ " diameter hole all the way through.
- 3) Using hack saw, form legs by cutting from bottom up to intersect the  $\frac{3}{8}$ " hole at crotch leaving  $\frac{1}{2}$ " on each side of body to form ankles.  
*Tip: place a strip of masking tape on body to show pencil line.*
- 4) Drill a  $\frac{5}{64}$ " hole in bottom centre of each leg to mount feet.
- 5) Glue eyes in upper corners of head and bottlecap in centre for nose.

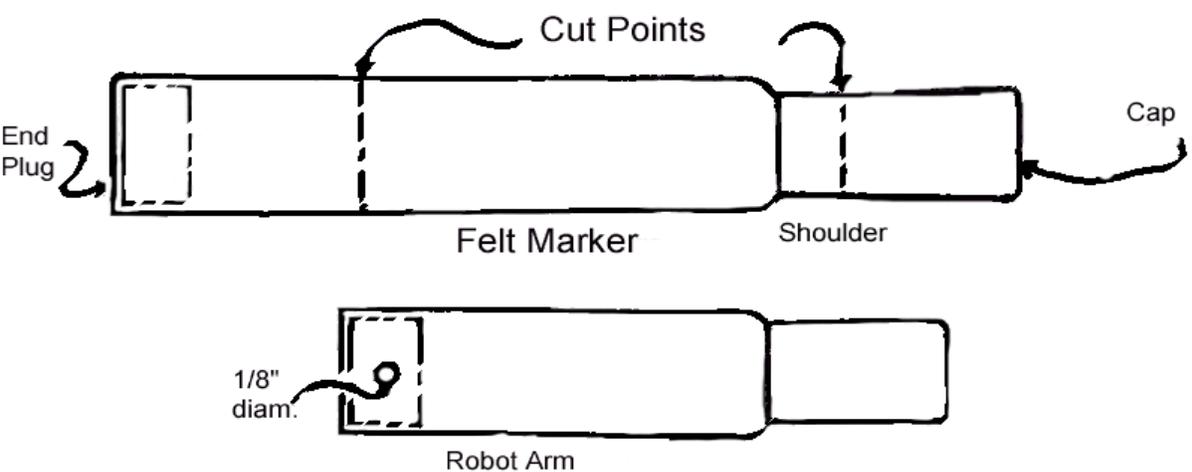
#### C) Feet

- 1) Cut 2" from each end of venetian blind base or domino.
- 2) Leave end caps on to form toes.
- 3) At a point  $1\frac{1}{4}$ " from toe, and midway across foot, drill  $\frac{1}{8}$ " mounting holes all the way through.
- 4) Turn feet over and drill  $\frac{1}{2}$ " the way through with  $\frac{3}{8}$ " drill bit, to avoid screw heads maring table

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#### D) Assembly

- 1) Attach feet with a dab of plastic cement and  $\frac{3}{8}$ " screws.  
*Tip: cement keeps feet from rotating.*
- 2) Attach arms with 1" screws



Say "Hi Mark, lets be friends"