MY EXPLORER'S LAMP

MANUFACTURE en Famille

NOTE
Once the MANUFACTURE EN FAMILLE construction models are assembled, they are not meant to be used as commercial toys. They are educational products for teaching purposes that should be used under adult supervision.

Assemble the tools (see other instructions). Saw off each piece from the board.
Note: Be sure to saw towards yourself (do not push the saw).
Thoroughly sand each edge with the sandpaper sheet, especially the circle where the lantern's reflector will be placed.
HELPER: Hold the board steady and guide the sawing hand.

Attach the battery holder's red wire to the switch using the screw (A). Firmly tighten the screw. Do the same with the other red wire onto screw (B). Attach the following to the screw terminal: on one side, the red wire connected to the switch, and on the other side, the longer LED wire. Firmly tighten the screws. Do the same with the second screw terminal: on one side, connect the smaller LED wire, and on the other side, connect the battery holder's black wire.
HELPER: Check the connections. Make sure that the LED lights up with 2 AA batteries.

Apply glue to ring (A). Attach the ring and the reflector (B) to the front side of the lantern by using the two screws with the wing nuts. Tighten the screws.
Apply glue to the edge of the reflector's hole (C) to install the LED.
Insert the LED in the reflector's hole.
Let it dry for 12 hours.

HELPER: Make sure the parts are assembled correctly.
If any mistakes were made, wet a sponge with warm water to remove the glue.

Place the pieces as shown in the illustration, making sure to carefully align the top of the lantern, piece (A), with the corresponding hole for the switch. Glue the bottom edge of piece (A) as well as the male parts on side (B).

HELPER: Make sure the pieces are in the correct direction.

Glue the bottom edge of piece (C) as well as the male parts on side (D).

HELPER: Hold the pieces together. Make sure the pieces are in the correct direction.

Firmly hold the four sides of the lantern in place and put three elastic bands on the lantern to secure it.
Rotate the lantern and put on the next three elastic bands.
Let it dry for 12 hours.

HELPER: Put elastic bands onto the lantern to make sure all the parts stay in place.

Remove the elastic bands.
Make a knot at one end of the gray elastic band, and thread it through hole (A) on the back side of the lantern, placing the knot on the inside of the lantern. Pass it through hole (B). Make a knot; the elastic band should be taut but not too tight.

Hammer a peg into the hole of the door, using the hole in the support board to make it stick out behind the door. Remove the protective layer from one side of the red plexiglass and place the non-protected side against the door (A). Hammer the peg through the plexiglass, making sure it sticks out in the back.

HELPER: Guide the hammering hand.

Hammer the 3 other pegs into their holes. The door of the lantern and the plexiglass are now attached, with the pegs sticking out on both sides (door and plexiglass).
Saw off the excess part of the pegs by pressing the saw against the door, then against the plexiglass.

HELPER: Guide the sawing hand and hold the door steady.

Unscrew the nut (A) on the switch and take off the washer (B). Slide the switch into the hole on the top of the lantern, and then put the washer and the nut back in place. Tighten them.
The OFF position must be facing the back of the lantern.

Hammer the handle rod into the hole on the back of the lantern.

HELPER: Guide the hammering hand and hold the rod steady.

Remove the screws and wing nuts from the ring.
To attach the battery holder, apply a Velcro strip to the bottom of it. The other strip goes inside the lantern (A); make sure it is accessible from the door.
Apply glue to the cavities in the edges of the front side of the lantern. Do not put glue on the tenon.
HELPER: If any mistakes were made, wet a sponge with warm water to remove the glue.

Place the front side on the lantern.
Hammer the handle rod into the hole.
Hold the lantern in place using elastic bands.
Let it dry for 12 hours.

HELPER: Guide the hammering hand and hold the rod steady. Place elastic bands on the lantern to make sure the parts stay in place.

Slide the door into the elastic band to shut it.

For more information or for other adventures...

www.manufactureenfamille.com