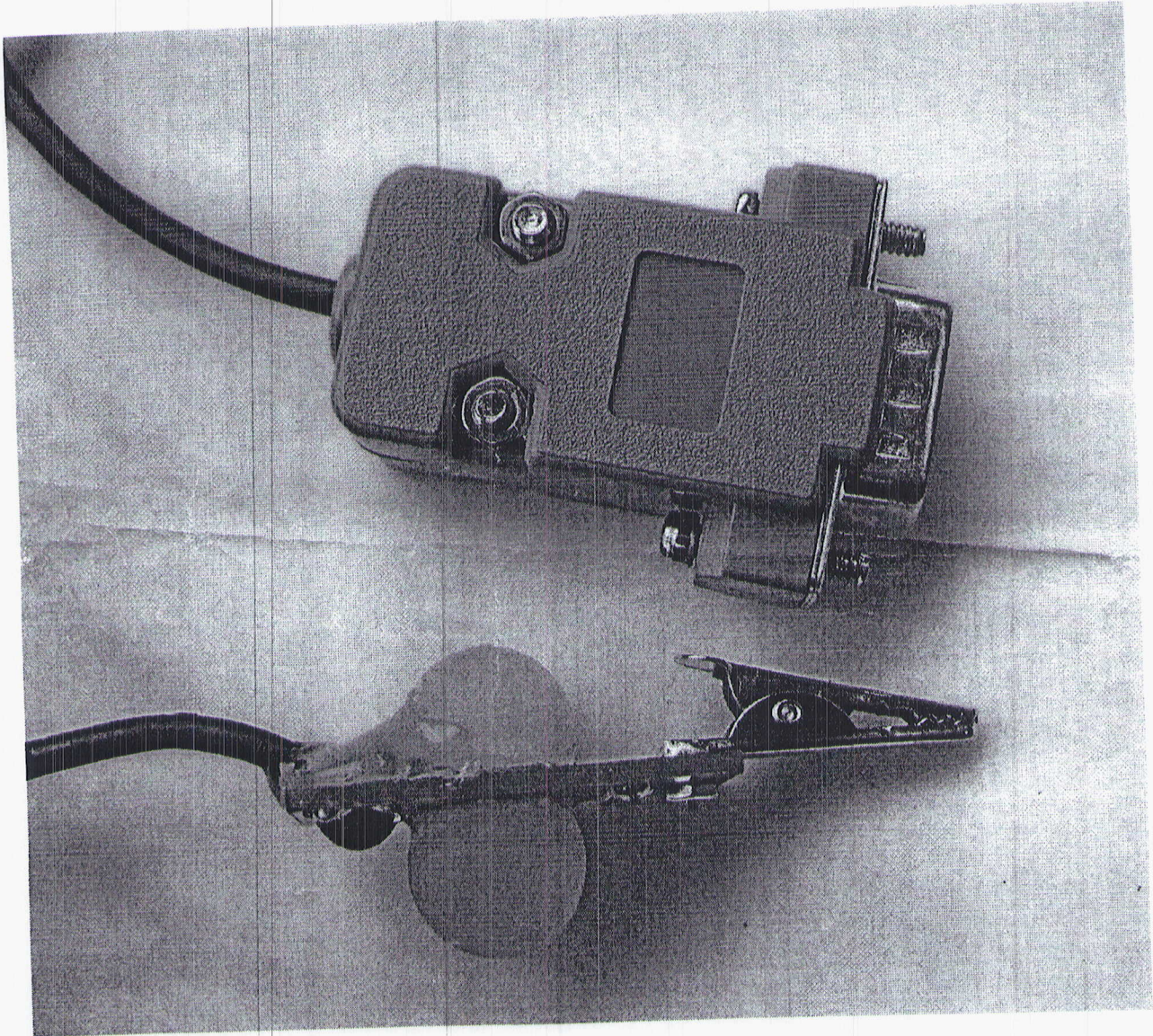


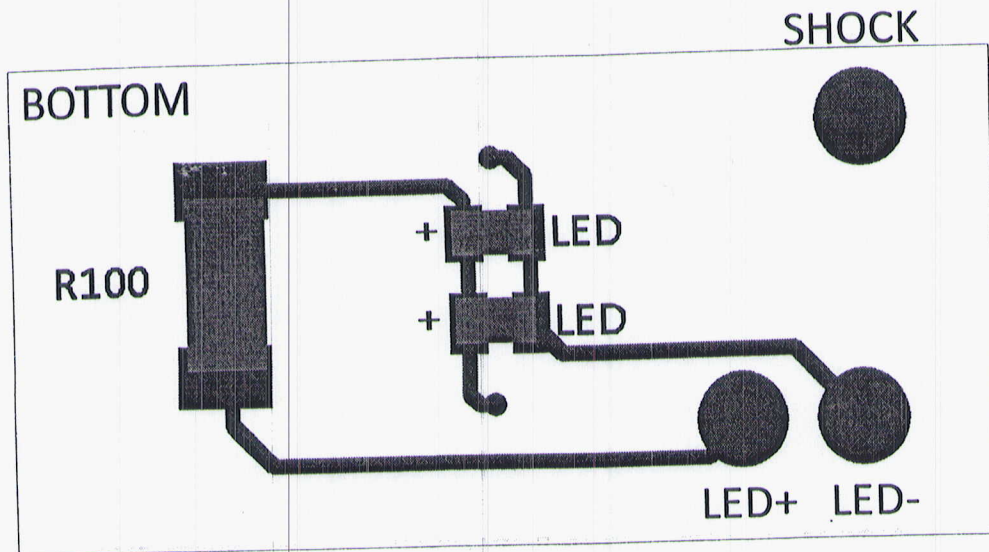
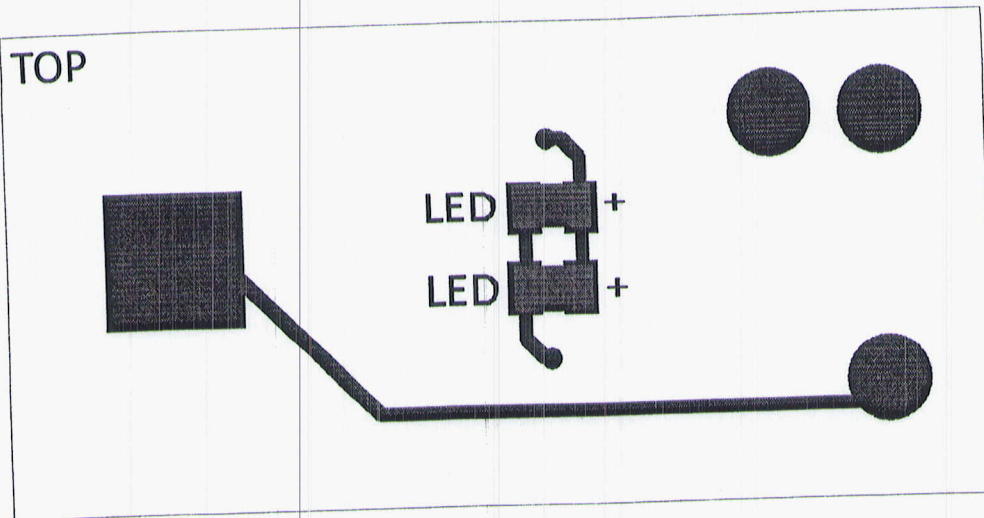
# Shocking Cable Assembly

Last update March 30, 2010

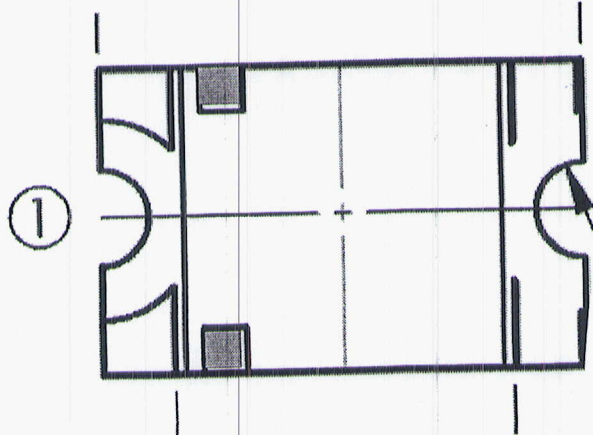




Step 1) – assemble LEDs and 100 Ohm resistor



The positive (+, Anode) pole of the LED is marked by two green bars:

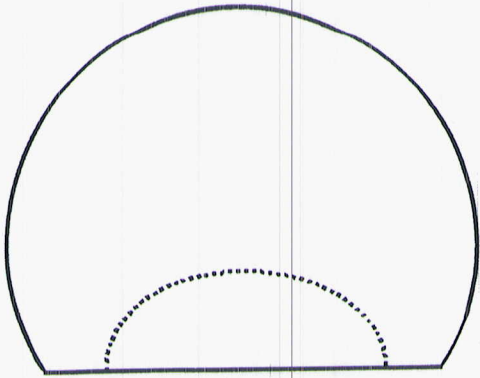


Make sure the LEDs go close to each other !

Shield – 1. Shock  
white – 6. LED  
Red – 3-LED

**Use protection on your eyes and fingers !**

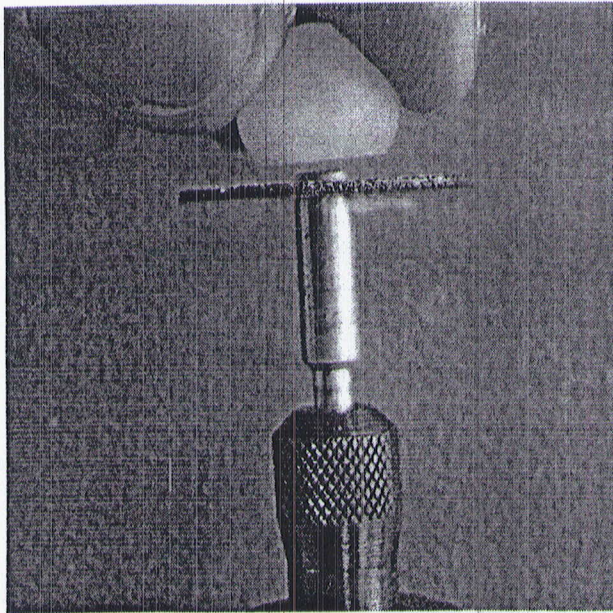
Step 2) Prepare poly propylene balls. They need to have this shape:



Put the polypropylene ball into gripper and drill small diameter hole (drill bit diameter 3mm) towards the center – depth 2mm.

Take bigger drill bit (diameter 1/16) and drill bigger hole about 4mm deep.

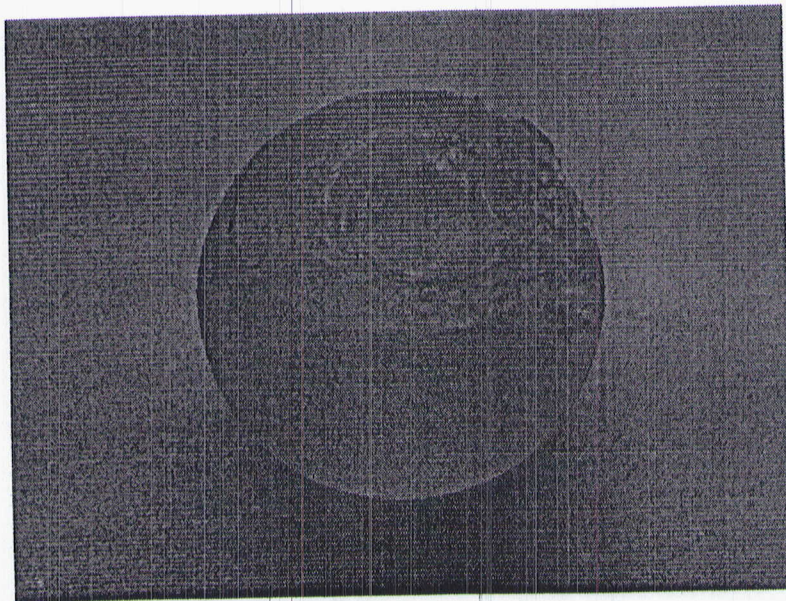
Start the Dremmel tool and put the ball on it from a side directly on the hole you've just made. Let the Dremmel cut about 1/3 of the diameter (as shown on the image below)



Put the ball back to the gripper, facing up with the skewed side, take 1/4 drill bit and adjust the hole so both LEDs fit into it.



Final ball should look little better than this:



Step 3) attach the cable to all pins, the cable should exit at the opposite side than where the resistor is placed.

Step 4) glue balls from both sides using plastic adhesive.

Step 5) attach protective spring

Step 6) Attach DB9 MALE connector to the end of cable + cable restrain + hood

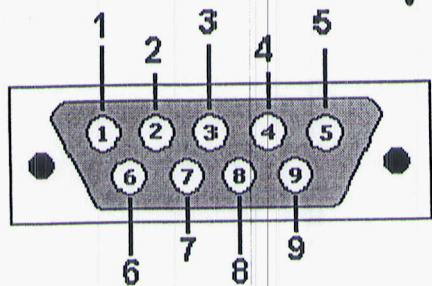
Pinout:

Pin3 - LED

Pin6 - LED GND

Pin1 - SHOCK

Shield - 1 - Shock  
White - 6 - LED - (↓)  
Red - 3 - LED +



Step 6) Cut crimping part from the alligator, add some solder on the bottom of the alligator around the hole. Attach it with the screw, solder around the alligator.

Step 7) protect wires on the board with hot glue.