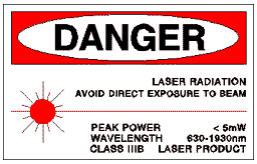
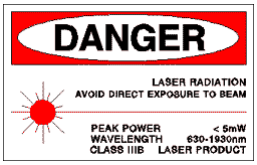


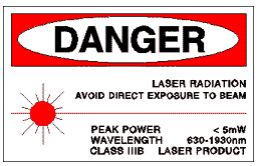

# Homemade Levitron

**This a simple electromagnetic „Antigravity" device.**

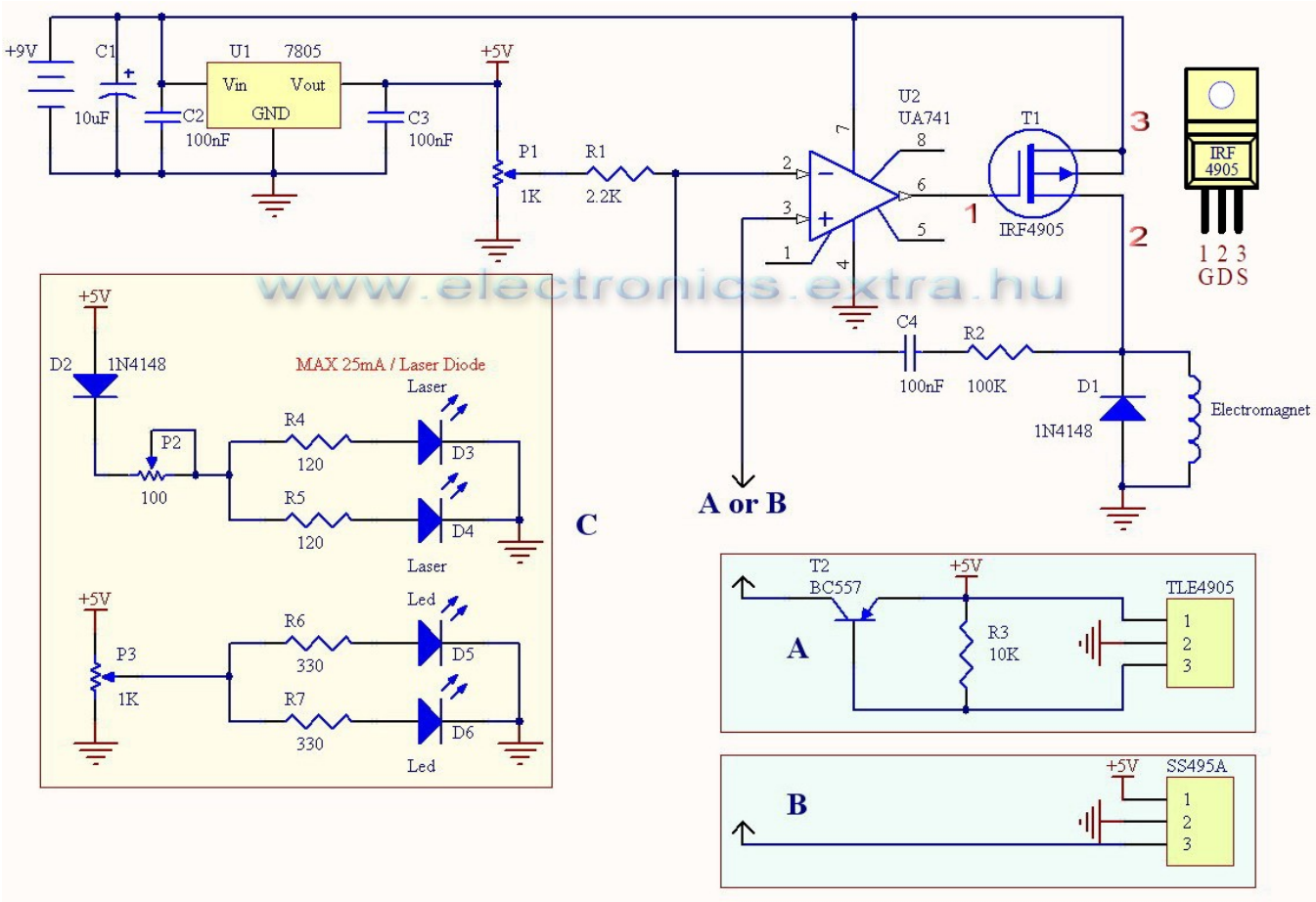
**Components:**

| | |
|---|---|
| **U1** | **7805 regulator IC** |
| **U2** | **UA741 operational amplifier** |
| **Hall Sensor** | **TLE4905 or SS495A(B) (placed in the center of the coil)** |
| **C1** | **10uF** |
| **C2, C3, C4** | **100nF** |
| **R1** | **2,2K** |
| **R2** | **100K** |
| **R3** | **10K** |
| **R4, R5** | **120Ω** |
| **R6, R7** | **330Ω** |
| **P1, P3** | **1K** |
| **P2** | **100Ω** |
| **D1, D2** | **1N4148** |
| **D3, D4** | **Laser diodes** |
| **D5, D6** | **LED ( white or blue)** |
| **T1** | **IRF4905** |
| **T2** | **BC557** |
| **Electromagnet (coil)** | **Ø 0,35mm(max) enameled copper wire**<br>**Dimensions: outer diameter 30mm,**<br>**inner diameter 8mm,**<br>**height 10mm**<br>**L= 8.5mH**<br>**R= 17Ω** |
| **Permanent magnet** | **Neodymium (flying object)** |

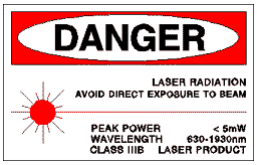


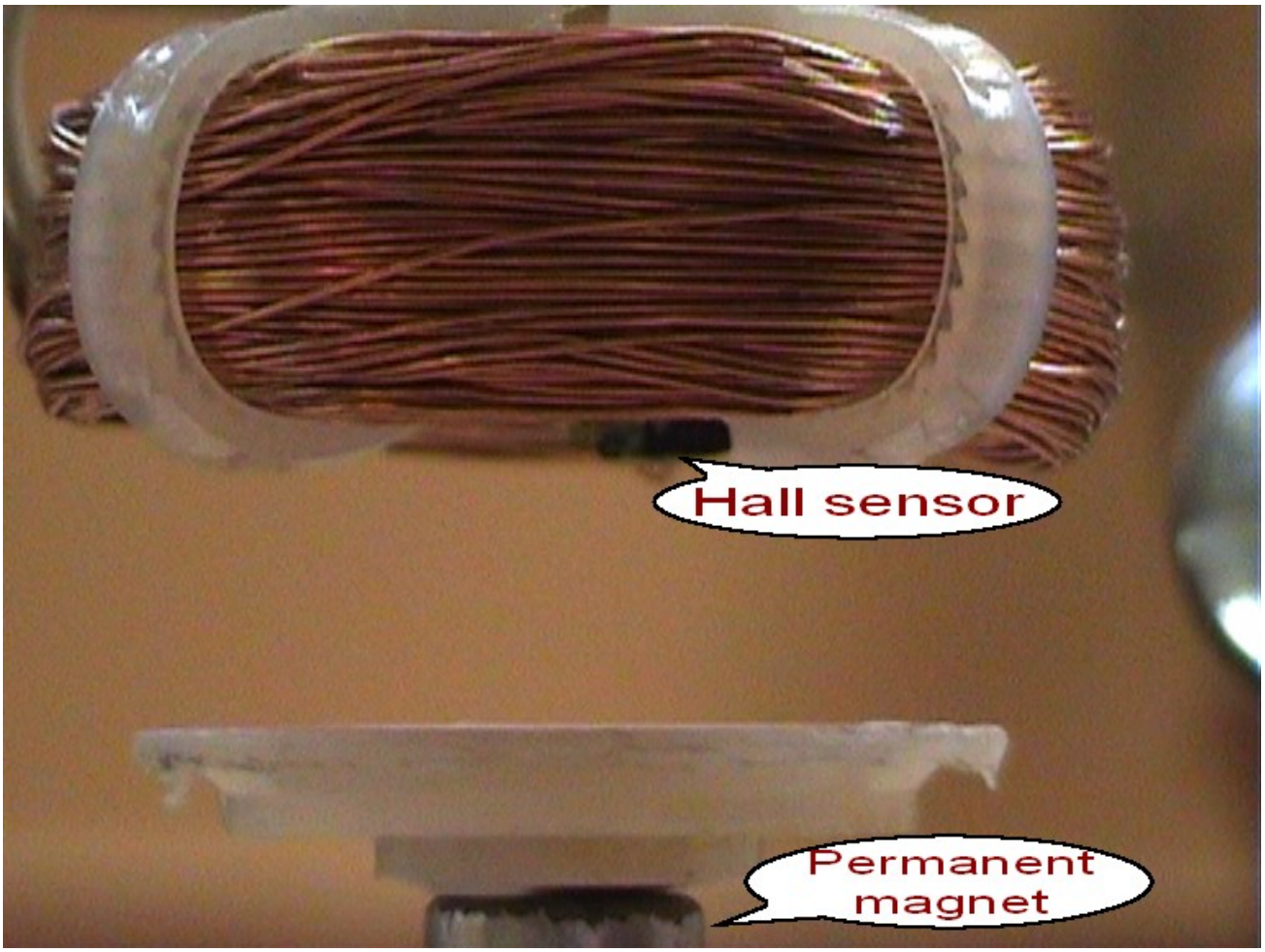


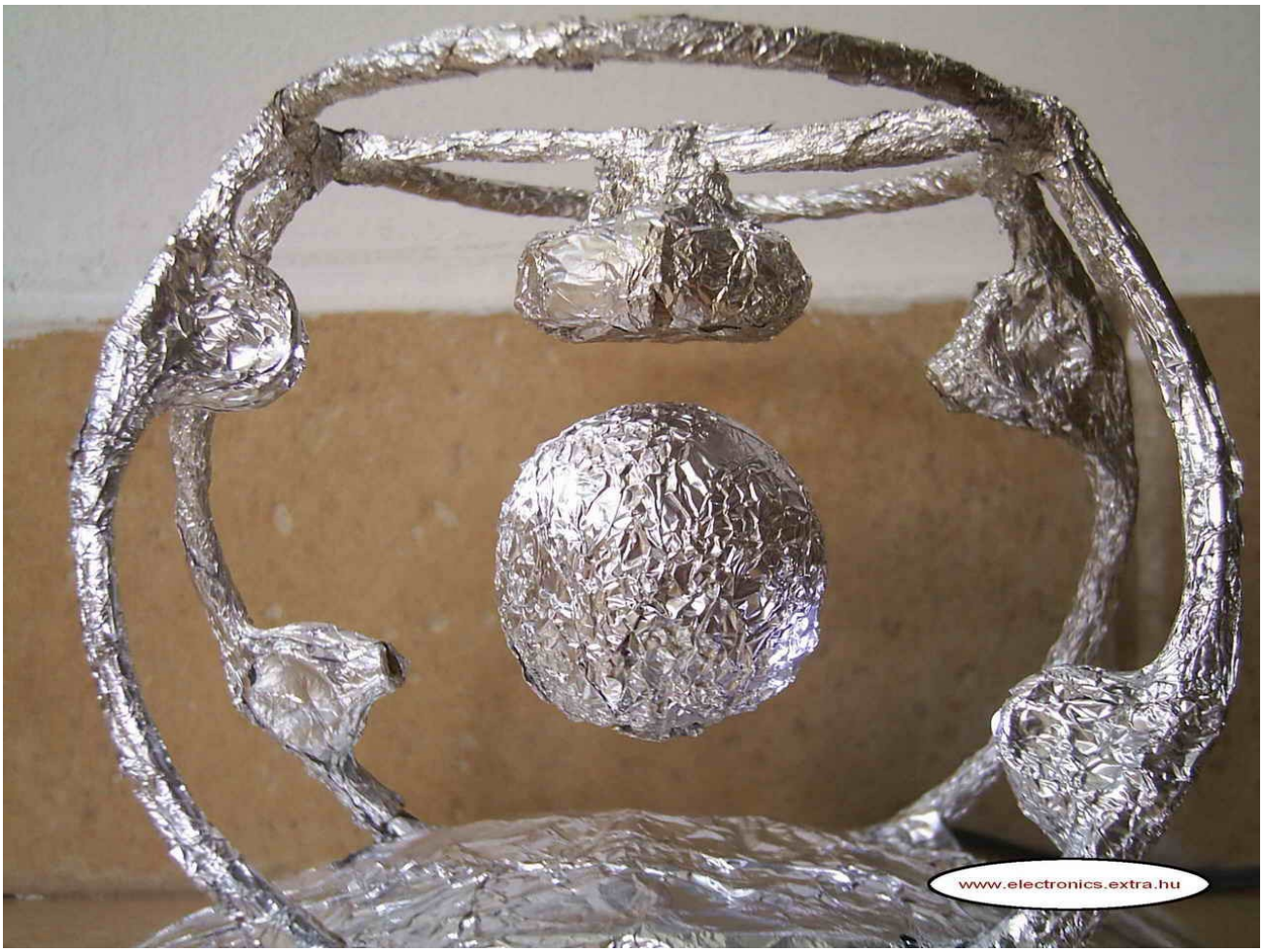

**Schematics:**
**Original schematic by Skori :**
**http://skory.gylcomp.hu/levitron/levitron.html**




**Depending by type of Hall Sensor you have, you can choose between connections type A or B.**
**Circuit „C” is optional, contain 2 Laser diodes and 2 white LEDs.**
**Using connection type „A”, turn the P1 cursor in the middle position.**
**Using connection type „B”, with P1, you can change the distance between flying object and coil.**








## In action

http://www.youtube.com/watch?v=4KRXoZ4Cz-g

**!!! Danger !!!**
**Laser Radiation**
**Do not direct them towards other people !!!**
**Never look directly into a laser beam !!!**
**Build and/or use at your own risk !!!**