

227.Press Switch Controls the Sounds of Machine Guns from the Buzzer Build the circuit, press the switch[62], if you press the press switch[61], you will hear the sounds of machine guns from the buzzer[87].

228.Magnet Controls the Sounds of Machine Guns from the Buzzer
Replace the press switch[61] with the reed switch[83], touch the reed switc[83] with magnet[7], then turn on the switch[62].

229.Touch Piece Controls the Sounds of Machine Guns from the Buzzer
Replace the press switch[61] with touch piece[80], touch the touch piece[80] with any sheetmetal, then turn on the switch[62].

230.Light Controls the Sounds of Machine Guns from the Buzzer
Replace the press switch[61] with photoresistance[68], then turn on the switch[62].
231.Motor Controls the Sounds of Machine Guns from the Buzzer
Replace the press switch[61] with motor[95], then turn on the switch[62].
232.Resistor Controls the Sounds of Machine Guns from the Buzzer
Replace the press switch[61] with 1K resistor[42], then turn on the switch[62].
233.Wire Controls the Sounds of Machine Guns from the Buzzer
Replace the press switch[61] with wire[4], then turn on the switch[62].

234. Water Controls the Sounds of Machine Guns from the Buzzer

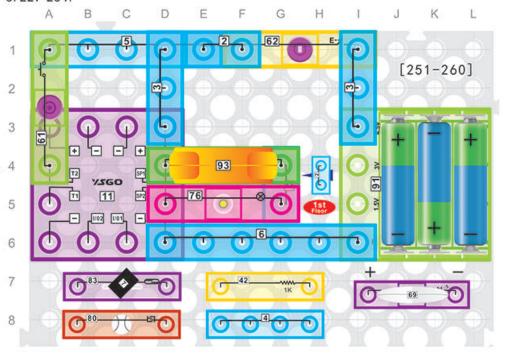
Replace the press switch[61] with touch piece[80], drop a drop of water on the touch piece[80], then turn on the switch[62].

235.Press Switch Controls the Lamp and the Sounds of Machine Guns from the Buzzer

236.Magnet Controls the Lamp and the Sounds of Machine Guns from the Buzzer 237.Touch Piece Controls the Lamp and the Sounds of Machine Guns from the Buzzer

238.Resistor Controls the Lamp and the Sounds of Machine Guns from the Buzzer 239.Light Controls the Lamp and the Sounds of Machine Guns from the Buzzer 240.Motor Controls the Lamp and the Sounds of Machine Guns from the Buzzer 241.Wire Controls the Lamp and the Sounds of Machine Guns from the Buzzer 242.Water Controls the Lamp and the Sounds of Machine Guns from the Buzzer 235-242, you just need to connect the lamp[76] in the point A and B in the circuit of 227-234.

243.Press Switch Controls the LED and the Sounds of Machine Guns from the Buzzer 244.Magnet Controls the LED and the Sounds of Machine Guns from the Buzzer 245.Touch Piece Controls the LED and the Sounds of Machine Guns from the Buzzer 246.Resistor Controls the LED and the Sounds of Machine Guns from the Buzzer 247.Light Controls the LED and the Sounds of Machine Guns from the Buzzer 248.Motor Controls the LED and the Sounds of Machine Guns from the Buzzer 249.Wire Controls the LED and the Sounds of Machine Guns from the Buzzer 250.Water Controls the LED and the Sounds of Machine Guns from the Buzzer 243-250, you just need to connect the LED[69] in the point A and B in the circuit of 227-234.





251. Press Switch Controls the Lamp and the Sounds of Fire Engine Build the circuit, connect the switch[62], then press the press switch[61], you

will hear the sounds of fire engine form the speaker[93], and the lamp[76] will

252. Magnet Controls the Lamp and the Sounds of Fire Engine

This circuit is similar to the upper one, replace the press switch[61] with reed switch[83], touch the reed switch[83] with magnet[7], then turn on the switch[62].

253. Touch Controls the Lamp and the Sounds of Fire Engine

Replace the press switch[61] with touch piece[80], touch the touch piece[80] with any sheetmetal, then turn on the switch[62].

254. Resistor Controls the Lamp and the Sounds of Fire Engine

Replace the press switch[61] with 1K resistor[42], then turn on the switch[62].

255. Wire Controls the Lamp and the Sounds of Fire Engine

Replace the press switch[61] with the wire[4], then turn on the switch[62].

256.Press Switch Controls the LED and the Sounds of Fire Engine

257. Magnet Controls the LED and the Sounds of Fire Engine

258. Touch Piece Controls the LED and the Sounds of Fire Engine

259.Resistor Controls the LED and the Sounds the Fire Engine

260. Wire Controls the LED and the Sounds the Fire Engine

256-260, you just need to replace the lamp[76] with the LED[69] in the circuit of 251-255. (Note: Please make sure you install the LED in the right polarity.)

261.Press Switch Controls the Sounds of Fire Engine from the Buzzer Build the circuit, press the switch[62], then press the press switch[61], you will hear the sounds of fire engine from the buzzer[87].

262.Magnet Controls the Sounds of Fire Engine from the Buzzer

Replace the press switch[61] with the reed switch[83], touch the reed switch[83] with magnet[7], then turn on the switch[62], you will also hear the sounds of fire engine from the buzzer[87].

263. Touch Piece Controls the Sounds of Fire Engine from the Buzzer Replace the press switch[61] with touch piece[80], press the touch piece[80] with any sheetmetal, then turn on the switch[62], the sounds of fire engine will be on again.

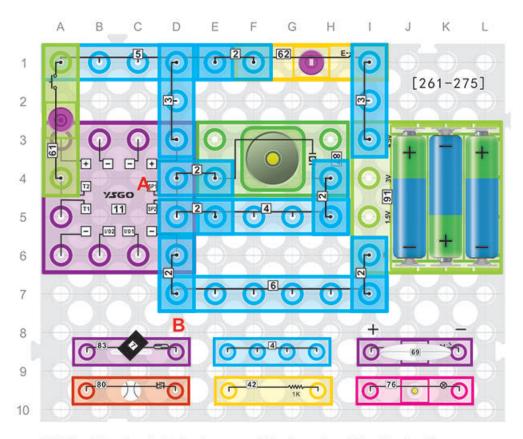
264.Resistor Controls the Sounds of Fire Engine from the Buzzer Replace the press switch[61] with the 1K resistor[42], then turn on the switch[62].

265. Wire Controls the Sounds of Fire Engine from the Buzzer

Replace the press switch[61] with the wire[4], then turn on the switch[62].

264.Press Switch Controls the Lamp and the Sounds of Fire Engine from the Buzzer

265.Magnet Controls the Lamp and the Sounds of Fire Engine from the Buzzer 266. Touch Piece Controls the Lamp and the Sounds of Fire Engine from the Buzzer



269. Resistor Controls the Lamp and the Sounds of Fire Engine from the Buzzer

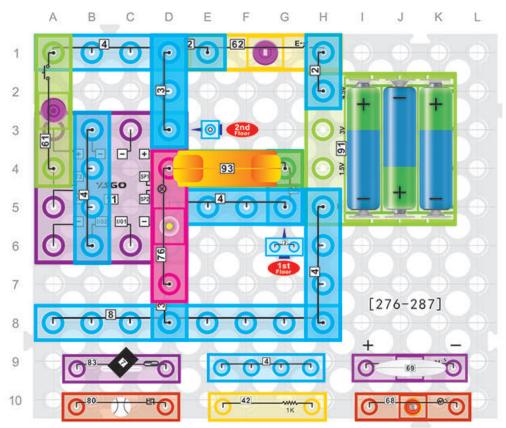
270. Wire Controls the Lamp and the Sounds of Fire Engine from the Buzzer 266-270, you just need to install the lamp[76] in the point A and B in the circuit of 261-265.

271. Press Switch Controls the LED and the Sounds of Fire Engine from the Buzzer

272.Magnet Controls the LED and the Sounds of Fire Engine from the Buzzer 273. Touch Piece Controls the LED and the Sounds of Fire Engine from the Buzzer

274.Resistor Controls the LED and the Sounds of Fire Engine from the Buzzer

275.Wire Controls the LED and the Sounds of Fire Engine from the Buzzer 271-275, install the LED[69] in the point A and B in the circuit of 261-265. (Note:Please make sure you install the LED in the right polarity.)

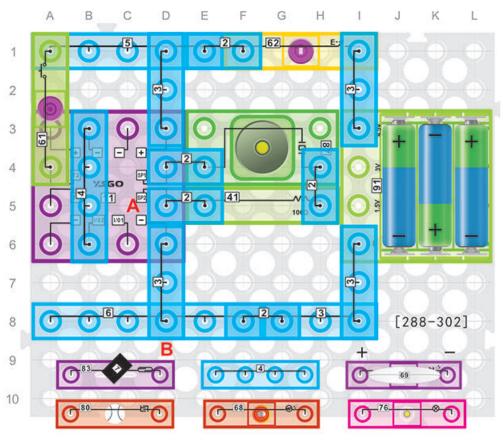


276.Press Switch Controls the Lamp and the Sounds of Space Battle Build the circuit, turn on the switch[62], then press the press switch[61], you will hear the sounds of space battle from the speaker[93], and the lamp[76] is on too.

277.Magnet Controls the Lamp and the Sounds of Space Battle
Replace the press switch[61] with the reed switch[83], turn on the switch[62],
if you touch the reed switch[83] with magnet[7] now, you can also hear the
sounds of space battle from the speaker[93], and the lamp[76] is on too.
278.Touch Piece Controls the Lamp and the Sounds of Space Battle
Replace the press switch[61] with touch piece[80], then turn on the switch[62],
if you touch the touch piece[80] with any sheetmetal now, you can hear the
sounds of space battle from the speaker[93], and the lamp[76] is on too.
279.Light Controls the Lamp and the Sounds of Space Battle
Replace the press switch[61] with the photoresistance[68], then press the
switch[62].

280.Resistor Controls the Lamp and the Sounds of Space Battle Replace the press switch[61] with the 1K resistor[42], then turn on the switch [62].

281.Wire Controls the Lamp and the Sounds of Space Battle
Replace the press switch[61] with the wire[4], then turn on the switch[62].
282.Press Switch Controls the LED and the Sound of Space Battle
283.Magnet Controls the LED and the Sound of Space Battle
284.Touch Piece Controls the LED and the Sound of Space Battle
285.Light Controls the LED and the Sound of Space Battle
286.Resistor Controls the LED and the Sound of Space Battle
287.Wire Controls the LED and the Sound of Space Battle
282-287, you just need to replace the lamp[76] with the LED[69] in the circuit of 276-281.



288.Press Switch Controls the Sounds of Space Battle from the Buzzer Build the circuit, press the switch[62], the press the press switch[61], you will hear the sounds of space battle from the buzzer[87].

289. Magnet Controls the Sounds of Space Battle from the Buzzer

Replace the press switch[61] with the reed switch[83], turn on the switch[62], if you touch the reed switch[83] with magnet[7] now, you can hear the sounds of space battle from the buzzer[87].

290. Touch Piece Controls the Sounds of Space Battle from the Buzzer Replace the press switch[61] with touch piece[80], then turn on the switch[62], if you touch the touch piece[80] with any sheetmetal now, you can hear the sounds of space battle from the buzzer[87].

291. Light Controls the Sounds of Space Battle from the Buzzer

Replace the press switch[61] with the photoresistance[68], then press the switch [62]. Do not cover the light of the photoresistance, or the sounds will be ended.

292. Wire Controls the Sounds of Space Battle from the Buzzer

Replace the press switch[61] with the wire[4], then turn on the switch[62], you can hear the sounds of space battle from the buzzer[87] too.

293. Press Switch Controls the Lamp and the Sounds of Space Battle from the Buzzer

294.Magnet Controls the Lamp and the Sounds of Space Battle from the Buzzer

295. Touch Piece Controls the Lamp and the Sounds of Space Battle from the Buzzer

296.Light Controls the Lamp and the Sounds of Space Battle from the Buzzer 297.Wire Controls the Lamp and the Sounds of Space Battle from the Buzzer 293-297, you just need to install the lamp[76] in the point A and B in the circuit of 288-292.

298.Press Switch Controls the LED and the Sounds of Space Battle from the Buzzer

299.Magnet Controls the LED and the Sounds of Space Battle from the Buzzer 300.Touch Piece Controls the LED and the Sounds of Space Battle from the Buzzer

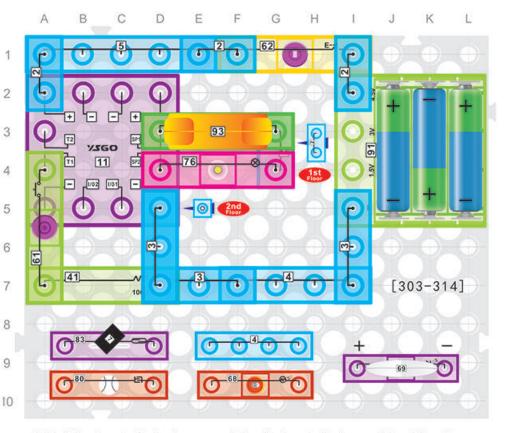
301.Light Controls the LED and the Sounds of Space Battle from the Buzzer 302.Wire Controls the LED and the Sounds of Space Battle from the Buzzer 298-302, you just need to install the LED[69] in the point A and B in the circuit of 288-292.

303.Press Switch Controls the Lamp and the Moderate Volume of Machine Guns Build the circuit, turn on the switch[62], then press the press switch[61], you will hear the sounds of machine guns from the speaker[93], and the lamp[76] will be on.

304.Magnet Controls the Lamp and the Moderate Volume of Machine Guns Replace the press switch[61] with the reed switch[83], turn on the switch[62], if you touch the reed switch[83] with magnet[7] now, you can hear the sounds of machine guns from the speaker[93], and the lamp[76] will be on too.

305. Touch Piece Controls the Lamp and the Moderate Volume of Machine Guns Replace the press switch[61] with touch piece[80], then turn on the switch[62], if you touch the touch piece[80] with any sheetmetal now, you can hear the sounds of machine guns from the speaker[93], and the lamp[76] will be on too.

306.Light Controls the Lamp and the Moderate Volume of Machine Guns Replace the press switch[61] with the photoresistance[68], then press the switch[62].



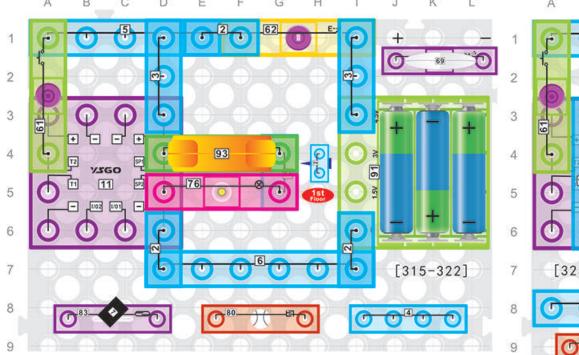
307. Wire Controls the Lamp and the Moderate Volume of Machine Guns Replace the press switch[61] with the wire[4], then turn on the switch[62], you can hear the sounds of machine guns from the speaker[93], and the lamp[76] will be on too .

308. Water Controls the Lamp and the Moderate Volume of Machine Guns Replace the press switch[61] with touch piece[80], turn on the switch[62], if you drop a drop of water on the touch piece[80] now, you will hear the sounds of machine guns from the speaker[93], and the lamp[76] will be on too.

309.Press Switch Controls the LED and the Moderate Volume of Machine Guns

310.Magnet Controls the LED and the Moderate Volume of Machine Guns 311.Touch Piece Controls the LED and the Moderate Volume of Machine Guns

312.Light Controls the LED and the Moderate Volume of Machine Guns 313.Wire Controls the LED and the Moderate Volume of Machine Guns 314.Water Controls the LED and the Moderate Volume of Machine Guns 309-314, you just need to replace the lamp[76] with the LED[69] in the circuit of 303-308

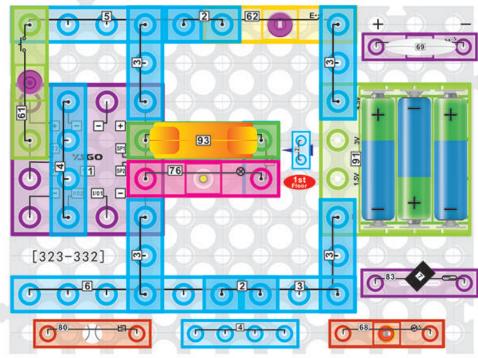


315.Press Switch Controls the Lamp and the Sounds of Fire Engine
Build the circuit, if you keep pressing the press switch[61], then turn on the switch
[62], you will hear the sounds of fire engine from the speaker[93], then lamp[76]
will be on too.

316.Magnet Controls the Lamp and the Sounds of Fire Engine
Replace the press switch[61] with the reed switch[83], turn on the switch[62], if
you touch the reed switch[83] with magnet[7] now, you can hear the sounds of fire

engine from the speaker[93], and the lamp[76] will be on too.

317.Touch Piece Controls the Lamp and the Sounds of Fire Engine
Replace the press switch[61] with touch piece[80], then turn on the switch[62], if
you touch the touch piece[80] with any sheetmetal now, you will hear the sounds
of fire engine in moderate volume from speaker[93], and the lamp[76] will be on too.
318.Wire Controls the Lamp and the Sounds of Fire Engine
Replace the press switch[61] with wire[4], turn on the switch[62].
319.Press Switch Controls the LED and the Sounds of Fire Engine
320.Magnet Controls the LED and the Sounds of Fire Engine
321.Touch Piece Controls the LED and the Sounds of Fire Engine
322.Wire Controls the LED and the Sounds of Fire Engine
319-322, replace the lamp[76] with LED[69] in the circuit of 315-318.
(Note:Please make sure you install the LED in the right polarity.)

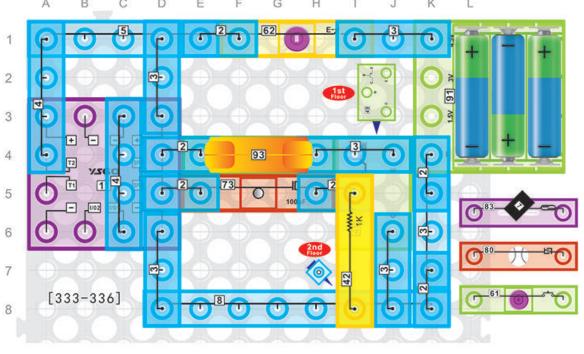


323.Press Switch Controls the Lamp and the Sounds of Space Battle
Build the circuit, turn on the switch[62], if you press the press switch[61], you will
hear the sounds of space battle from the speaker[93], and the lamp[76] will be on.
324.Magnet Controls the Lamp and the Sounds of Space Battle
Replace the press switch[61] with the reed switch[83], turn on the switch[62], if
you touch the reed switch[83] with magnet[7] now, you can hear the sounds of
space battle from the speaker[93], and the lamp[76] will be on too.
325.Touch Piece Controls the Lamp and the Sounds of Space Battle
Replace the press switch[61] with touch piece[80], turn on the switch[62], then
touch the touch piece[80] with any sheetmetal.
326.Light Controls the Lamp and the Sounds of Space Battle

327.Wire Controls the Lamp and the Sounds of Space Battle
Replace the press switch[61] with the wire[4], then turn on the switch[62].
328.Press Switch Controls the LED and the Sounds of Space Battle
329.Magnet Controls the LED and the Sounds of Space Battle
330.Touch Piece Controls the LED and the Sounds of Space Battle
331.Light Controls the LED and the Sounds of Space Battle
328.Wire Controls the LED and the Sounds of Space Battle
328-332, replace the lamp[76] with LED[69] in the circuit of 323-327.
(Note:Please make sure you install the LED in the right polarity.)

Replace the press switch[61] with the photoresistance[68], then turn on the

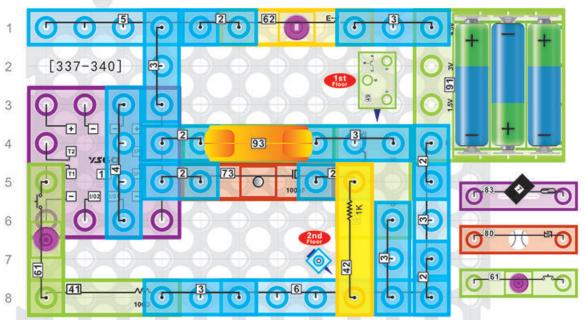
switch[62].



333. Switch Control the Music in the Capacitive Coupling (1)
Build the circuit, turn on the switch[62], you can hear the music from
the speaker[93], then turn off the switch[62], the music will be stop.
334.Press Switch Controls the Music in the Capacitive Coupling (2)
Replace the switch[62] with the press switch[61], then press the press
switch[61], you can hear the music from the speaker[93]. Release the
press switch[61], the music will be off.

335.Magnet Controls the Music in the Capacitive Coupling (3)
Replace the switch[62] with the reed switch[83], touch the reed switch
[83] with magnet[7], you will hear the music from the speaker[93].
If you move away the magnet[7], the music will be off.

336.Touch Piece Controls the Music in the Capacitive Coupling (4) Replace the switch[62] with touch piece[80], press the touch piece[80] with any sheetmetal, you will hear music from the speaker[93]. Move away the sheetmetal, the music will be off.



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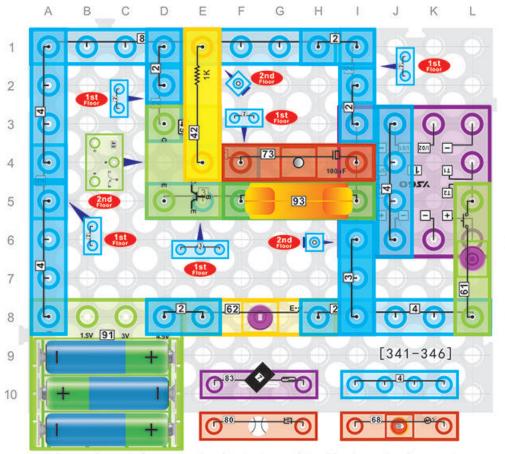
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337. Press Switch Controls the Music in the Capacitive Coupling (1) Replace the switch[62] with the press switch[61], then press the press switch[61], you can hear the music from the speaker[93]. Release the press switch[61], the music will be off.

338.Magnet Controls the Music in the Capacitive Coupling (1)
Replace the press switch[61] with the reed switch[83], touch the reed switch[83] with magnet[7], you will hear the music from the speaker[93]. If you move away the magnet[7], the music will be off.

339.Touch Piece Controls Music in the Capacitive Coupling (1) Replace the press switch[61] with touch piece[80], press the touch piece[80] with any sheetmetal, you will hear music from the speaker [93]. Move away the sheetmetal, the music will be off.

340. Water Controls the Music in the Capacitive Coupling (1)
Replace the press switch[61] with touch piece[80], turn on the switch
[62], the music will stop later. If you drop a drop of water onthe touch
piece[80], you will hear the music from the speaker[93] again.



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341. Press Switch Controls the Circle Play of the Music in the Capacitive Coupling(1)

Build the circuit, press the switch[62], if you press the press switch[61], you will hear the Birthday Song in circle play from the speaker[93].

342. Magnet Controls the Circle Play of the Music in the Capacitive Coupling(1)

Replace the press switch[61] with the reed switch[83], then turn on the switch [62], keep magnet[7] touched the reed switch[83], you will hear the Birthday Song from the Speaker[93] again and again.

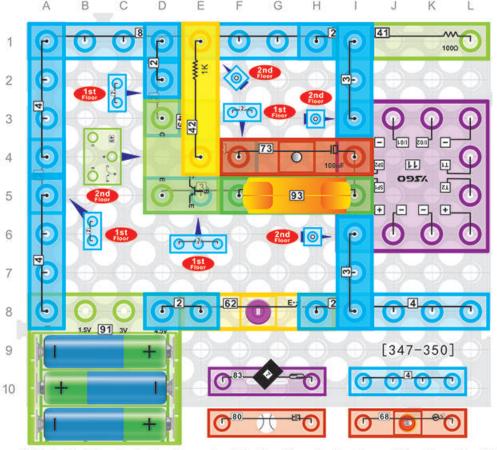
343. Touch Piece Controls the Circle Play of the Music in the Capacitive Coupling(1)

Replace the press switch[61] with touch piece[80], turn on the switch[62], if you touch the touch piece[80] with any sheetmetal now, you can hear the Birthday Song in circle play too.

344. Wire Controls the Circle Play of the Music in the Capacitive Coupling(1) Replace the press switch[61] with wire[4], turn on the switch[62], you can hear the Birthday Song in circle play.

345.Light Controls the Circle Play of the Music in the Capacitive Coupling(1) Replace the press switch[61] with photoresistance[68], then turn on the switch[62], now you can also hear the Birthday Song in circle play from the speaker[93].

346. Water Controls the Circle Play of the Music in the Capacitive Coupling(1) Replace the press switch[61] with touch piece[80], then turn on the switch[62], if you drop a drop of water on the touch piece [80], you will hear the Birthday Song in circle play from the speaker[93].



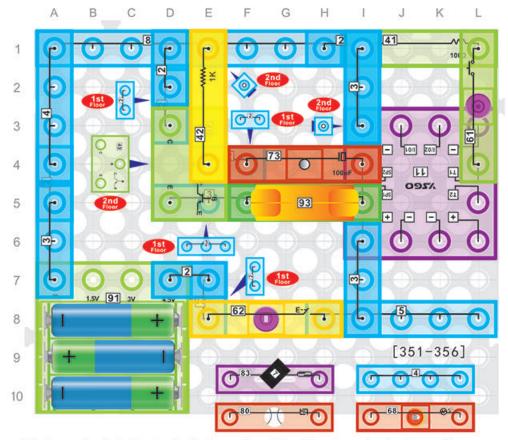
347. Switch Controls the Sounds of Police Siren in the Capacitive Coupling(1) Build the circuit, press the switch[62], you will hear the sounds of police siren from the speaker[93].

348. Magnet Controls the Sounds of Police Siren in the Capacitive Coupling(1) Replace the switch[62] with the reed switch[83], touch the reed switch[83] with magnet[7], you will also hear the sounds of police siren from the speaker[93]. 349. Press Switch Controls the Sounds of Police Siren in the Capacitive Coupling(1)

Replace the switch[62] with the press switch[61], then turn on the press switch[61], you will hear the sounds of police siren from the speaker[93].

350. Touch Piece Controls the Sounds of Police Siren in the Capacitive Coupling(1)

Replace the switch[62] with the touch piece[80], touch the touch piece[80] with any sheetmetal, you will hear the sounds of police siren from the speaker[93].



351.Press Switch Controls the Sounds of Machine Guns in the Capacitive Coupling(1)

Build the circuit step by step, turn on the switch[62], then press the press switch [61], you will hear the sounds of machine guns from the speaker[93].

352. Magnet Controls the Sounds of Machine Guns in the Capacitive Coupling(1) $\,$

Replace the press switch[61] with the reed switch[83], then turn on the switch[62], if you touch the reed switch[83] with magnet[7], you can also hear the sounds of machine guns from the speaker[93].

353. Touch Piece Controls the Sounds of Machine Guns in the Capacitive Coupling(1)

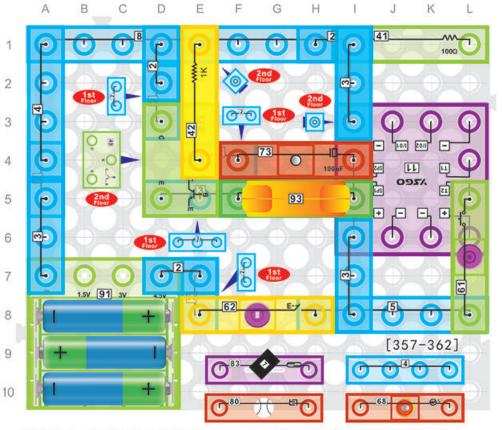
Replace the press switch[61] with touch piece[80], then turn on the switch[62], if you touch the touch piece[80] with any sheetmetal now, you can hear the sounds of machine guns for the speaker[93].

354.Light Controls the Sounds of Machine Guns in the Capacitive Coupling(1) Replace the press switch[61] with photoresistance[68], then turn on the switch[62], you will also hear the sounds of machine guns from the speaker[93].

355. Wire Controls the Sounds of Machine Guns in the Capacitive Coupling(1) Replace the press switch[61] with wire[4], then turn on the switch[62].

356. Water Controls the Sounds of Machine Guns in the Capacitive Coupling(1)

Replace the press switch[61] with touch piece[80], if you drop a drop of water on the touch piece[80], then turn on the switch[62], you can hear the sounds of machine guns from the speaker[93].



357.Press Switch Controls the Sounds of Fire Engine in the Capacitive Coupling(1)

Build the circuit step by step, turn on the switch[62], then press the press switch [61], you will hear the sounds of fire engine from the speaker[93].

358.Magnet Controls the Sounds of Fire Engine in the Capacitive Coupling(1) Replace the press switch[61] with the reed switch[83], then turn on the switch[62], if you touch the reed switch[83] with magnet[7], you can also hear the sounds of fire engine from the speaker[93].

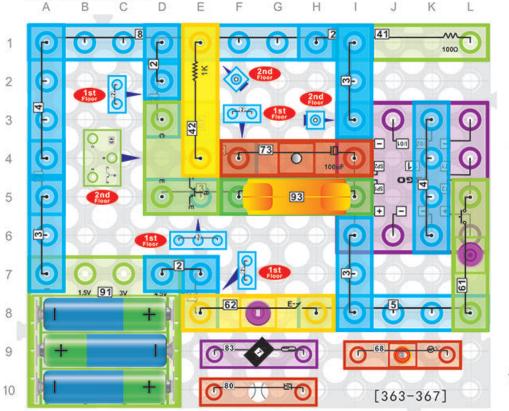
359. Touch Piece Controls the Sounds of Fire Engine in the Capacitive Coupling(1)

Replace the press switch[61] with touch piece[80], then turn on the switch[62], if you touch the touch piece[80] with any sheetmetal now, you can hear the sounds of machine guns for the speaker[93].

360.Light Controls the Sounds of Fire Engine in the Capacitive Coupling(1) Replace the press switch[61] with photoresistance[68], then turn on the switch[62], you will also hear the sounds of fire engine from the speaker[93].

361. Wire Controls the Sounds of Fire Engine in the Capacitive Coupling(1) Replace the press switch[61] with wire[4], then turn on the switch[62], you will also hear the sounds of fire engine from the speaker[93].

362. Water Controls the Sounds of Fire Engine in the Capacitive Coupling(1) Replace the press switch[61] with touch piece[80], if you drop a drop of water on the touch piece[80], then turn on the switch[62], you can hear the sounds of fire engine from the speaker[93].



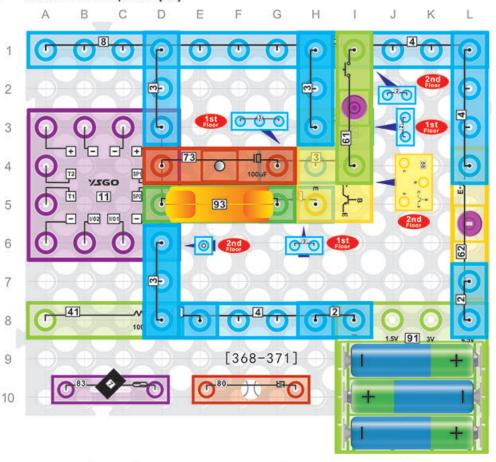
363. Press Controls the Sounds of Space Battle in the Capacitive Coupling(1) Build the circuit step by step, turn on the switch[62], then press the press switch [61], you will hear the sounds of space battle from the speaker[93].

364.Magnet Controls the Sounds of Space Battle in the Capacitive Coupling(1) Replace the press switch[61] with the reed switch[83], then turn on the switch[62], if you touch the reed switch[83] with magnet[7], you can also hear the sounds of space battle from the speaker[93]

365. Touch Piece Controls the Sounds of Space Battle in the Capacitive Coupling(1) Replace the press switch[61] with touch piece[80], then turn on the switch[62], if you touch the touch piece[80] with any sheetmetal now, you can hear the sounds of space battle from the speaker[93].

366.Light Controls the Sounds of Space Battle in the Capacitive Coupling(1) Replace the press switch[61] with photoresistance[68], then turn on the switch [62], cover the light of photoresistance[68], you will hear the sounds of space battle from the speaker[93].

367. Water Controls the Sounds of Space Battle in the Capacitive Coupling(1) Replace the press switch[61] with touch piece[80], if you drop a drop of water on the touch piece[80], then turn on the switch[62], you can hear the sounds of space battle from the speaker[93].



368. Press Switch Controls the Volume+ of Police Siren in the Capacitive Coupling(1)

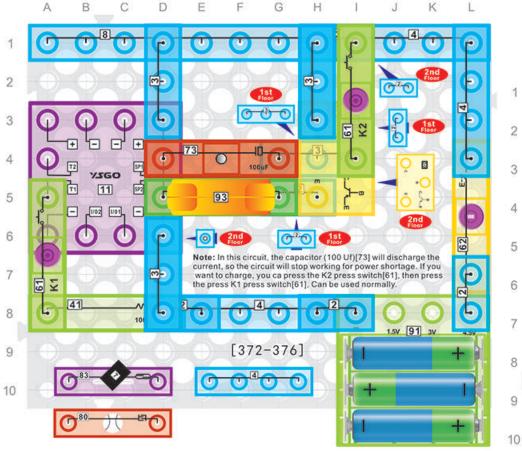
Build the circuit, turn on the switch[62], you will hear the sounds of police siren more loudly, if you press the press switch[61], you will hear the police siren hooting loudly.

369.Magnet Controls the Volume+ of Police Siren in the Capacitive Coupling(1) Replace the press switch[61] with the reed switch[83], then turn on the switch[62], if you touch the reed switch[83] with magnet[7], you can also hear the sounds of police siren from the speaker[93].

370. Touch Piece Controls the Volume+ of Police Siren in the Capacitive Coupling(1)

Replace the press switch[61] with touch piece[80], then turn on the switch[62], if you touch the touch piece[80] with any sheetmetal now, you can hear the sounds of police siren from the speaker[93].

371.Water Controls the Volume+ of Police Siren in the Capacitive Coupling(1) Replace the press switch[61] with touch piece[80], if you drop a drop of water on the touch piece[80], then turn on the switch[62], you can hear the sounds of police siren from the speaker[93].



372. Press Switch Controls the Volume+ of Machine Guns in the Capacitive Coupling(2)

Build the circuit, press the press switch K1[61], then turn on the switch[62], you will hear the shooting sounds of machine guns from the speaker[93].

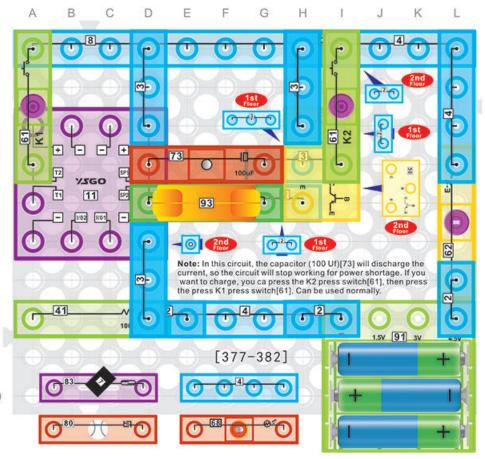
373.Magnet Controls the Volume+ of Machine Guns in the Capacitive Coupling(2) Replace the press switch[61] with the reed switch[83], then turn on the switch[62], if you touch the reed switch[83] with magnet[7], you can also hear the shooting sounds of machine guns from the speaker[93].

374. Touch Piece Controls the Volume+ of Machine Guns in the Capacitive Coupling(2)

Replace the press switch K2[61] with touch piece[80], then turn on the switch [62], if you touch the touch piece[80] with any sheetmetal now, you can hear the shooting sounds of machine guns from the speaker[93].

375. Wire Controls the Volume+ of Machine Guns in the Capacitive Coupling(2) Replace the press switch K2[61] with wire[4], then turn on the switch[62], you will also hear the shooting sounds machine guns from the speaker[93].

376.Water Controls the Volume+ of Machine Guns in the Capacitive Coupling(2) Replace the press switch K2[61] with touch piece[80], if you drop a drop of water on the touch piece[80], then turn on the switch[62], you can hear the shooting sounds of machine guns from the speaker[93].



377.Press Switch Controls the Volume+ of the Sounds of Fire Engine in the Capacitive Coupling (2)

Build the circuit, Press the press switch K1[61], then turn on the switch[62], you will hear the sounds of fire engine from the speaker[93].



378. Magnet Controls the Volume+ of the Sounds of Fire Engine in the Capacitive Coupling (2)

Replace the press switch[61] with the reed switch[83], then turn on the switch[62], if you touch the reed switch[83] with magnet[7], you can also hear the sounds of fire engine from the speaker[93].

379. Touch Piece Controls the Volume+ of the Sounds of Fire Engine in the Capacitive Coupling (2)

Replace the press switch K2[61] with touch piece[80], then turn on the switch[62], if you touch the touch piece[80] with any sheetmetal now, you can hear the sounds of fire engine from the speaker[93].

380.Light Controls the Volume+ of the Sounds of Fire Engine in the Capacitive Coupling (2)

Replace the press switch[61] with photoresistance[68], then turn on the switch[62], cover the light of photoresistance[68], you will hear the sounds of fire engine from the speaker[93].

381. Wire Controls the Volume+ of the Sounds of the Sounds of Fire Engine in the Capacitive Coupling (2)

Replace the press switch K2[61] with wire[4], then turn on the switch[62], you will also hear the sounds of fire engine from the speaker[93].

382. Water Controls the Volume+ of the Sounds of Fire Engine in the Capacitive Coupling (2)

Replace the press switch K2[61] with touch piece[80], if you drop a drop of water on the touch piece[80], then turn on the switch[62], you can hear the sounds of fire engine from the speaker[93].

383.Press Switch Controls the Volume+ of Space Battle in the Capacitive Coupling (2) Build the circuit, Press the press switch K1[61], then turn on the switch[62], you will hear the sounds of space battle from the speaker[93].

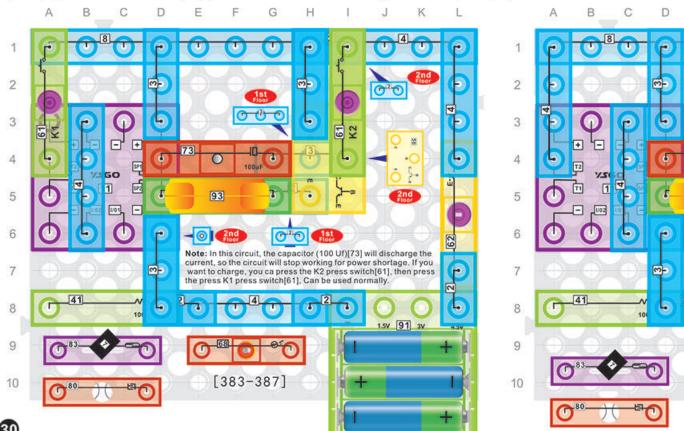
384.Magnet Controls the Volume+ of Space Battle in the Capacitive Coupling (2) Replace the press switch[61] with the reed switch[83], then turn on the switch[62], if you touch the reed switch[83] with magnet[7], you can also hear the sounds of space battle from the speaker[93].

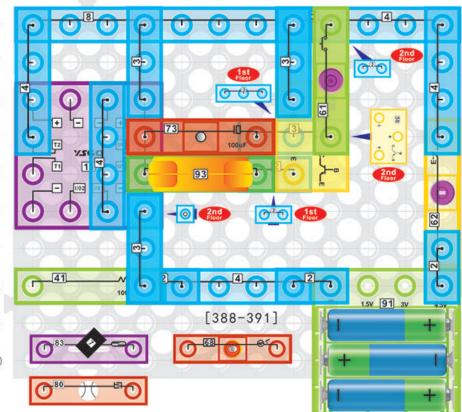
385.Touch Piece Controls the Volume+ of Space Battle in the Capacitive Coupling (2) Replace the press switch K2[61] with touch piece[80], then turn on the switch[62], if you touch the touch piece[80] with any sheetmetal now, you can hear the sounds of space battle from the speaker[93].

386.Light Controls the Volume+ of Space Battle in the Capacitive Coupling (2) Replace the press switch[61] with photoresistance[68], then turn on the switch[62], cover the light of photoresistance[68], you will hear the sounds of space battle from the speaker[93].

387.Water Controls the Volume+ of Space Battle in the Capacitive Coupling (2) Replace the press switch K2[61] with touch piece[80], if you drop a drop of water on the touch piece[80], then turn on the switch[62], you can hear the sounds of space battle from the speaker[93].

G



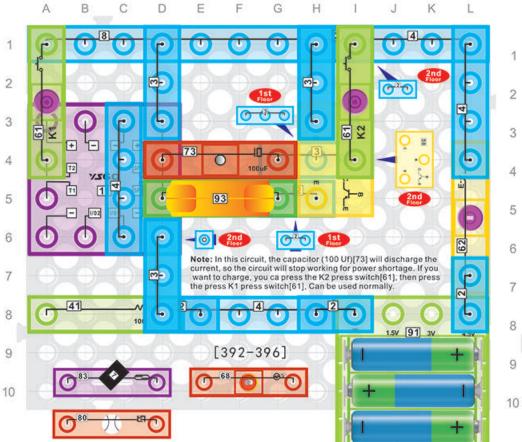


388.Switch Controls the Volume+ of the Music in the Capacitive Coupling (2) Build the circuit step by step, then turn on the switch[62], you will hear the music from the speaker[93]. Disconnect the switch[62], the music will be off.

389.Press Switch Controls the Volume+ of the Music in the Capacitive Coupling (2) Replace the switch[62] with the press switch[61], press the press switch[61], you will hear the music from the speaker[93]. Release the press switch[61], the music will be off.

390.Magnet Controls the Volume+ of the Music in the Capacitive Coupling (2) Replace the switch[62] with the reed switch[83], then turn on the switch[62], if you touch the reed switch[83] with magnet[7], you can also hear the music from the speaker[93].

391.Touch Piece Controls the Volume+ of the Music in the Capacitive Coupling (2) Replace the switch[62] with touch piece[80], then turn on the switch[62], if you touch the touch piece[80] with any sheetmetal now, you can hear the music from the speaker[93].



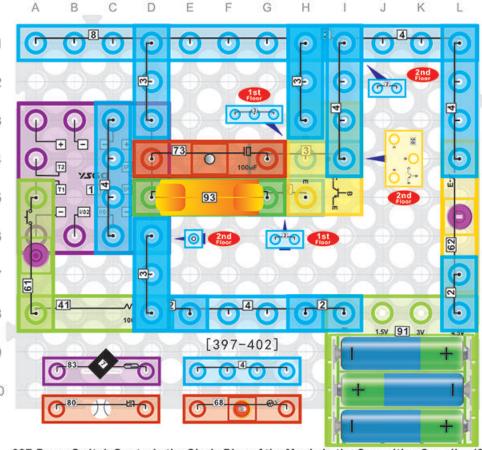
392.Press Switch Controls the Volume+ of the Music in the Capacitive Coupling (3) Build the circuit step by step, then turn on the switch[62], now you can hear the music from the speaker[93], then it will stop later. If you press tightly on the press switch K1 [61], the music will be on again.

393.Magnet Controls the Volume+ of the Music in the Capacitive Coupling (3) Replace the press switch[61] with the reed switch[83], then turn on the switch[62], the music will stop playing later, if you touch the reed switch[83] with magnet[7], the music will be heard again from the speaker[93].

394. Touch Piece Controls the Volume+ of the Music in the Capacitive Coupling (3) Replace the press switch K2[61] with touch piece[80], then turn on the switch[62]. Wait until the music is stop, then touch the touch piece[80] with any sheetmetal now, you can hear the music from the speaker[93] again.

395. Light Controls the Volume+ of the Music in the Capacitive Coupling (3) Replace the press switch K2[61] with photoresistance[68], then turn on the switch [62], you can hear the music from the speaker[93] now.

396. Water Controls the Volume+ of the Music in the Capacitive Coupling (3) Replace the press switch K2[61] with touch piece[80], then turn on the switch[62], if you drop a drop of water on the touch piece[80] now, you can hear the music from the speaker[93].



397.Press Switch Controls the Circle Play of the Music in the Capacitive Coupling(2) Build the circuit, turn on the switch[62], you can hear the music from the speaker [93], and it will stop later. If you want to turn on the music again, you just need to press tightly on the press switch[61].

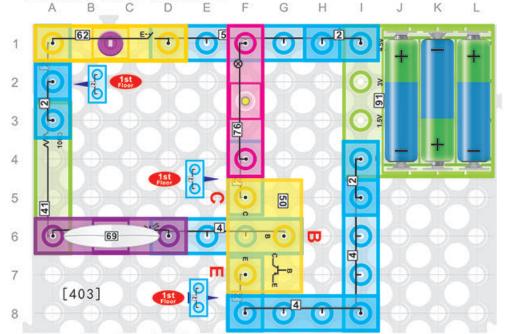
398. Magnet Controls the Circle Play of the Music in the Capacitive Coupling(2) Replace the press switch[61] with the reed switch[83], then turn on the switch[62], keep magnet[7] touched the reed switch[83], you will hear the Birthday Song from the Speaker[93] again and again.

399. Touch Piece Controls the Circle Play of the Music in the Capacitive Coupling(2)

Replace the press switch[61] with touch piece[80], turn on the switch[62], if you touch the touch piece[80] with any sheetmetal now, you can hear the Birthday Song in circle play too.

400. Wire Controls the Circle Play of the Music in the Capacitive Coupling(2) Replace the press switch[61] with wire[4], turn on the switch[62], you can hear the Birthday Song in circle play.

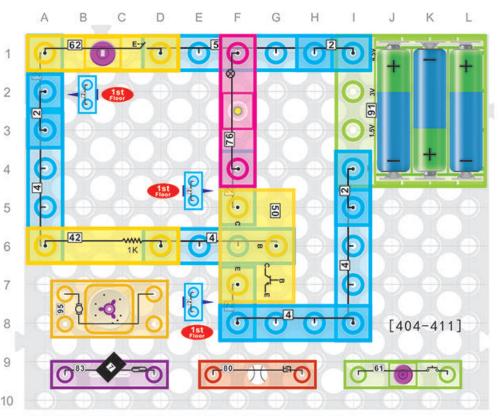
401.Light Controls the Circle Play of the Music in the Capacitive Coupling(2) Replace the press switch[61] with photoresistance[68], then turn on the switch[62], now you can also hear the Birthday Song in circle play from the speaker[93].
402.Water Controls the Circle Play of the Music in the Capacitive Coupling(2) Replace the press switch[61] with touch piece[80], then turn on the switch[62], if you drop a drop of water on the touch piece[80], you will hear the Birthday Song in circle play from the speaker[93].



403. Amplifier Circuit of the NPN Transistor

A transistor has three electrodes, the base B, the emitter E, and the collector C. In the transistor, if there is small flow of current of the transistor that pass through the base B, the emitter E and the collector C will convey with more current. This is the amplification of the transistor. Build the circuit step by step, then turn on the switch[62], you can see the LED[69] and lamp[76] is on at the same time. In this circuit, the current through the LED[69] is small. With the amplification of the transistor.

the current through the LED[69] is small. With the amplification of the transistor, the current though the lamp[76] is more.



404. Switch Controls the Lamp and NPN Transistor (1)

Build the circuit, the lamp[76] is still off, right. Turn on the switch[62], you can see the lamp[76] is on now. Disconnect the switch[62], the lamp[76] will be off.

405. Press Switch Controls the Lamp and NPN Transistor (1)

Replace the switch[62] with the press switch[61], if you press the press switch[61], the lamp[76] will be on. Release the press switch[61], the lamp[76] will be off.

406.Magnet Controls the Lamp and NPN Transistor (1)

Replace the switch[62] with the reed switch[83], touch the reed switch[83] with magnet[7], you can see the lamp[76] is on. Move away the magnet[7], the lamp [76] will be off.

407. Touch Piece Controls the Lamp and NPN Transistor (1)

Replace the switch[62] with touch piece[80], if you touch the touch piece[80] with any sheetmetal, the lamp[76] will be on. Move away the sheetmetal, the lamp[76] will be off.

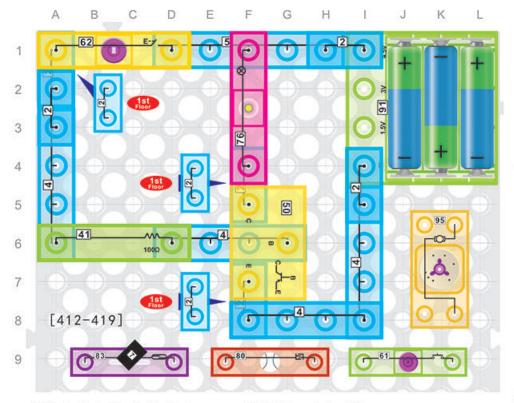
408. Switch Controls the Fan and NPN Transistor (1)

409. Press Switch Controls the Fan and NPN Transistor (1)

410. Magnet Controls the Fan and NPN Transistor (1)

411. Touch Piece Controls the Fan and NPN Transistor (1)

408-411, you just need to replace the lamp[76] with the motor[95] in the circuit of 404-407, then install the fan blade in the motor[95].



412. Switch Controls the Lamp and NPN Transistor (2)

Build the circuit, the lamp[76] is still off, right. Turn on the switch[62], you can see the lamp[76] is on now. Disconnect the switch[62], the lamp[76] will be off.

413. Press Switch Controls the Lamp and NPN Transistor (2)

Replace the switch[62] with the press switch[61], if you press the press switch[61], the lamp[76] will be on. Release the press switch[61], the lamp[76] will be off.

414. Magnet Controls the Lamp and NPN Transistor (2)

Replace the switch[62] with the reed switch[83], touch the reed switch[83] with magnet[7], you can see the lamp[76] is on. Move away the magnet[7], the lamp [76] will be off.

415. Touch Piece Controls the Lamp and NPN Transistor (2)

Replace the switch[62] with touch piece[80], if you touch the touch piece[80] with any sheetmetal, the lamp[76] will be on. Move away the sheetmetal, the lamp[76] will be off.

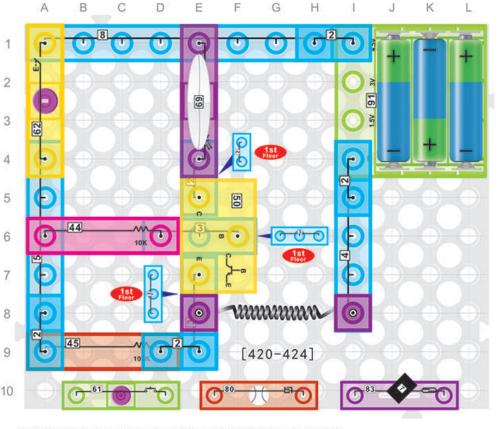
416. Switch Controls the Fan and NPN Transistor (2)

417. Press Switch Controls the Fan and NPN Transistor (2)

418. Magnet Controls the Fan and NPN Transistor (2)

419. Touch Piece Controls the Fan and NPN Transistor (2)

416-419, just replace the lamp[76] with the motor[95] in the circuit of 412-415, then install the fan blade[60] in the motor[95].



420. Switch Controls the LED and NPN Transistor (1)

Build the circuit, then turn on the switch[62], you can see LED[69] is on. Disconnect the switch[62], LED[69] will be off.

421.Press Switch Controls the LED and NPN Transistor (1)

Replace the switch[62] with the press switch[61], then press it(press switch[61]), now LED[69] is on.

422. Magnet Controls the LED and NPN Transistor (1)

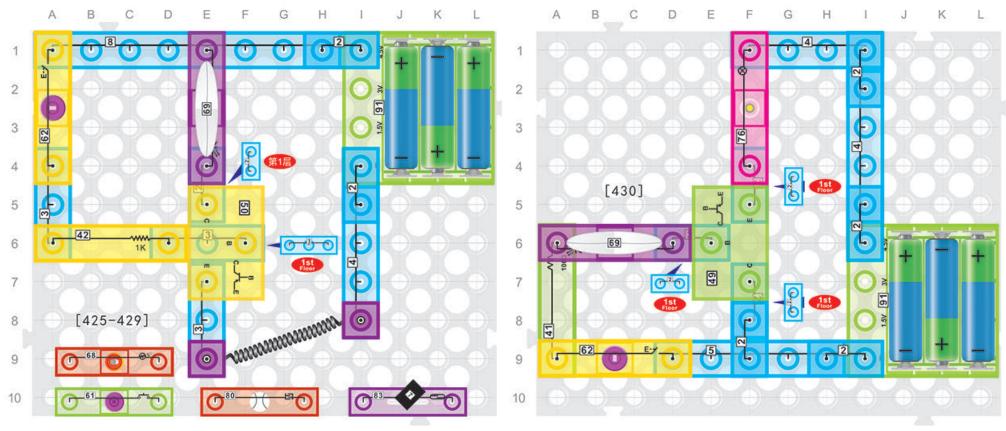
Replace the switch[62] with the reed switch[83], touch the reed switch[83] with magnet[7], you can see the LED[69] is shining.

423. Touch Piece Controls the LED and NPN Transistor (1)

Replace the switch[62] with the touch piece[80], if you touch the touch piece[80] with any sheetmetal, you can see LED[69] is lighten up.

424.Light Controls the LED and NPN Transistor (1)

Replace the switch[62] with the photoresistance[68], you will see LED[69] is on. If you cover the light of the photoresistanc[68], the LED[69] will be dimmer.



425. Switch Controls the LED and NPN Transistor (2)

Build the circuit, then turn on the switch[62], you can see LED[69] is on. Disconnect the switch[62], LED[69] will be off.

426. Press Switch Controls the LED and NPN Transistor (2)

Replace the switch[62] with the press switch[61], then press it(press switch[61]), now LED[69] is on.

427. Magnet Controls the LED and NPN Transistor (2)

Replace the switch[62] with the reed switch[83], touch the reed switch[83] with magnet[7], you can see the LED[69] is shining.

428. Touch Piece Controls the LED and NPN Transistor (2)

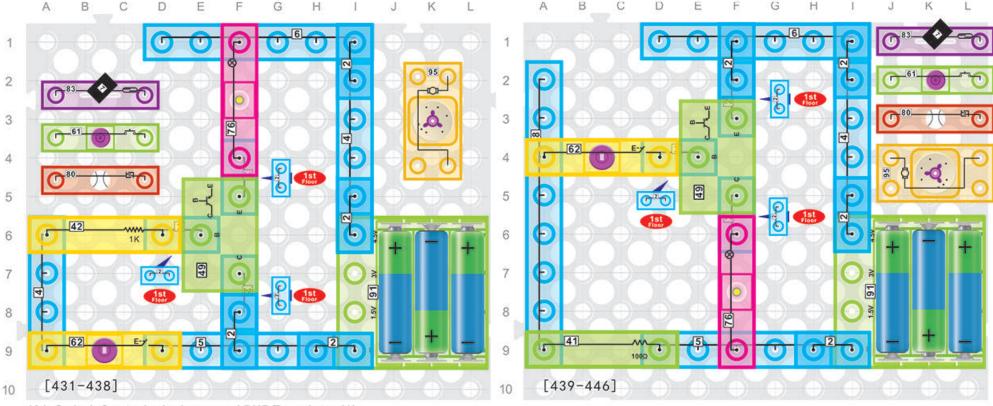
Replace the switch[62] with the touch piece[80], if you touch the touch piece[80] with any sheetmetal, you can see LED[69] is lighten up.

429.Light Controls the LED and NPN Transistor (2)

Replace the switch[62] with the photoresistance[68], you will see LED[69] is on. If you cover the light of the photoresistance[68], the LED[69] will be dimmer.

430. Amplifier Circuit of the PNP Transistor

A transistor can be divided into NPN transistor and PN transistor according to its PN junction. This is called amplifier circuit of the PNP Transistor. Build the circuit step by step, you will light up LED[69] and the lamp[76] at the same time. Due to the emitter E and the collector C, the lamp[76] can be light up too. Without the transistor, the current through the base B of is too small to let it (lamp[76]) work.



431. Switch Controls the Lamp and PNP Transistor (1)

Build the circuit, then turn on the switch[62], you can see the lamp[76] is on. Disconnect the switch[62], the lamp[76] will be off.

432. Press Switch Controls the Lamp and PNP Transistor (1)

Replace the switch[62] with the press switch[61], can you see the lamp[76] is on? Not yet. If you want to turn on the lamp[76], you just need to press the press switch [61]. Release it, the lamp[76] will be off.

433. Magnet Controls the Lamp and PNP Transistor (1)

Replace the switch[62] with the reed switch[83], if you touch the reed switch[83] with magnet[7], the lamp[76] will be light up. Move away the magnet[7], the lamp [76] will be off.

434. Touch Piece Controls the Lamp and PNP Transistor (1)

Replace the switch[62] with the touch piece[80], if you touch the touch piece[80] with any sheetmetal, the lamp[76] will be on. Move away the sheetmetal, the lamp[76] will be off.

- 435. Switch Controls the Fan and PNP Transistor (1)
- 436. Switch Controls the Fan and PNP Transistor (1)
- 437. Magnet Controls the Fan and PNP Transistor (1)

438. Touch Piece Controls the Fan and PNP Transistor (1)

435-438, you just need to replace the lamp[76] with motor[95] in the circuit of 431-434, then install the fan blade[60] in the motor[95].

439. Switch Controls the Lamp and PNP Transistor (2)

Build the circuit, then turn on the switch[62], you can see the lamp[76] is on. Disconnect the switch[62], the lamp[76] will be off.

440. Press Switch Controls the Lamp and PNP Transistor (2)

Replace the switch[62] with the press switch[61], can you see the lamp[76] is on? Not yet. If you want to turn on the lamp[76], you just need to press the press switch[61]. Release it, the lamp[76] will be off.

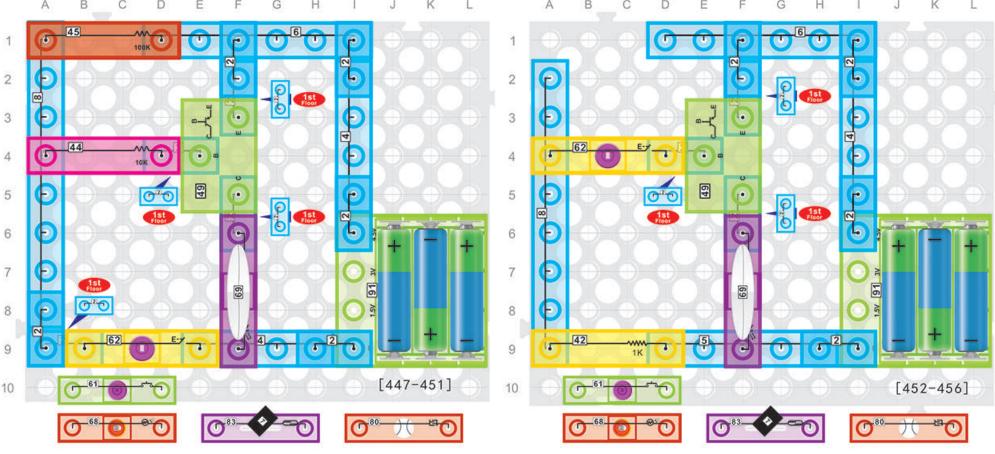
441. Magnet Controls the Lamp and PNP Transistor (2)

Replace the switch[62] with the reed switch[83], if you touch the reed switch[83] with magnet[7], the lamp[76] will be light up. Move away the magnet[7], the lamp [76] will be off.

442. Touch Piece Controls the Lamp and PNP Transistor (2)

Replace the switch[62] with the touch piece[80], if you touch the touch piece[80] with any sheetmetal, the lamp[76] will be on. Move away the sheetmetal, the lamp [76] will be off.

- 443. Switch Controls the Fan and PNP Transistor (2)
- 444. Switch Controls the Fan and PNP Transistor (2)
- 445. Magnet Controls the Fan and PNP Transistor (2)
- 446. Touch Piece Controls the Fan and PNP Transistor (2)
- 443-446, you just need to replace the lamp[76] with motor[95] in the circuit of 439-442, then install the fan blade[60] in the motor[95].



447. Switch Controls the LED and PNP Transistor (1)

Build the circuit, then turn on the switch[62], you can see LED[69] is on. Disconnect the switch[62], LED[69] will be off.

448. Press Switch Controls the LED and PNP Transistor (1)

Replace the switch[62] with the press switch[61], then press it(press switch[61]), now LED[69] is on.

449. Magnet Controls the LED and PNP Transistor (1)

Replace the switch[62] with the reed switch[83], touch the reed switch[83] with magnet[7], you can see the lamp[76] is shining.

450. Touch Piece Controls the LED and PNP Transistor (1)

Replace the switch[62] with the touch piece[80], if you touch the touch piece[80] with any sheetmetal, you can see LED[69] is lighten up.

451.Light Controls the LED and PNP Transistor (1)

Replace the switch[62] with the photoresistance[68], you will see LED[69] is on. If you cover the light of the photoresistance[68], the LED[69] will be dimmer.

452. Switch Controls the LED and PNP Transistor (2)

Build the circuit, then turn on the switch[62], you can see LED[69] is on. Disconnect the switch[62], LED[69] will be off.

453. Press Switch Controls the LED and PNP Transistor (2)

Replace the switch[62] with the press switch[61], then press it(press switch[61]), now LED[69] is on.

454. Magnet Controls the LED and PNP Transistor (2)

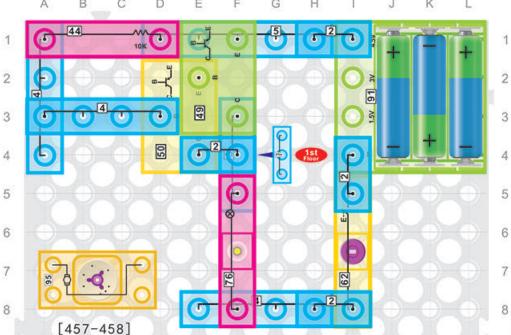
Replace the switch[62] with the reed switch[83], touch the reed switch[83] with magnet[7], you can see the lamp[76] is shining.

455. Touch Piece Controls the LED and PNP Transistor (2)

Replace the switch[62] with the touch piece[80], if you touch the touch piece[80] with any sheetmetal, you can see LED[69] is lighten up.

456.Light Controls the LED and PNP Transistor (2)

Replace the switch[62] with the photoresistance[68], you will see LED[69] is on. If you cover the light of the photoresistance[68], the LED[69] will be dimmer.



457. Switch Controls the Lamp in the Amplifier Circuit of Composite Pipe (1) Build the circuit, then turn on the switch[62], you can see the lamp[76] is on. Disconnect the switch[62], the lamp[76] will be off.

458. Switch Controls the Motor in the Amplifier Circuit of Composite Pipe (1) Replace the lamp[76] with the motor[95], install the fan blade[60], then turn on the switch[62], you will see the motor[95] start running. Disconnect the switch[62], the motor[95] will be stopped.

459. Press Switch Controls the Lamp in the Circuit of Composite Pipe (1)

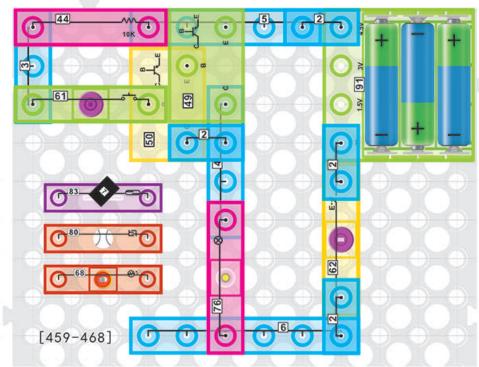
Build the circuit, then turn on the switch[62], can you see the lamp[76] is on ? Not yet. If you want to turn on the lamp[76], you just need to press the press switch[61]. Release it, the lamp[76] will be off.

460. Magnet Controls the Lamp in the Circuit of Composite Pipe (1)

Replace the press switch[61] with the reed switch[83], if you touch the reed switch [83] with magnet[7], the lamp[76] will be light up. Move away the magnet[7], the lamp[76] will be off.

461. Touch Piece Controls the Lamp in the Circuit of Composite Pipe (1)

Replace the press switch[61] with the touch piece[80], if you touch the touch piece [80] with any sheetmetal, the lamp[76] will be on. Move away the sheetmetal, the lamp[76] will be off.



462.Light Controls the Lamp in the Circuit of Composite Pipe (1)

Replace the press switch[61] with the photoresistance[68], then turn on the switch [62], the lamp[76] will be on. If you cover the light of the photoresistance[68] with your hands, the lamp[76] will be off.

463. Water Controls the Lamp in the Circuit of Composite Pipe (1)

Replace the press switch[61] with touch piece[80], if you drop a drop of water on the touch piece[80] now, the lamp[76] will be on.

464. Press Switch Controls the Fan in the Circuit of Composite Pipe (1)

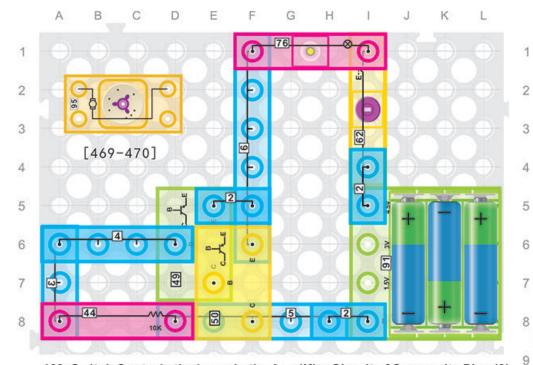
465. Magnet Controls the Fan in the Circuit of Composite Pipe (1)

466. Touch Piece Controls the Fan in the Circuit of Composite Pipe (1)

467. Light Controls the Fan in the Circuit of Composite Pipe (1)

468. Water Controls the Fan in the Circuit of Composite Pipe (1)

464-468, you just need to replace the lamp[76] with the motor[95] in the circuit of 459-463, then install the fan blade[60] in the motor[95].



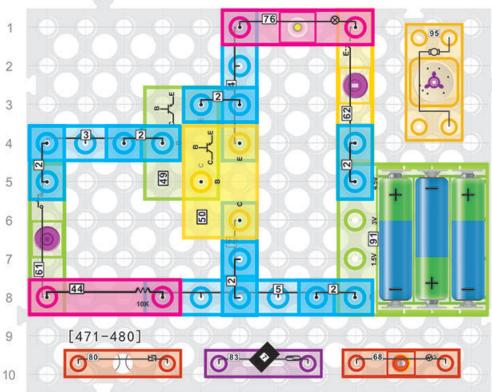
469. Switch Controls the Lamp in the Amplifier Circuit of Composite Pipe (2) Build the circuit, then turn on the switch[62], you can see the lamp[76] is on. Disconnect the switch[62], the lamp[76] will be off.

470. Switch Controls the Motor in the Amplifier Circuit of Composite Pipe (2) Replace the lamp[76] with the motor[95], install the fan blade[60], then turn on the switch[62], you will see the motor[95] start running. Disconnect the switch[62], the motor[95] will be stopped.

471.Press Switch Controls the Lamp in the Circuit of Composite Pipe (2) Build the circuit, then turn on the switch[62], can you see the lamp[76] is on? Not yet. If you want to turn on the lamp[76], you just need to press the press switch[61]. Release it, the lamp[76] will be off.

472.Magnet Controls the Lamp in the Circuit of Composite Pipe (2)
Replace the press switch[61] with the reed switch[83], if you touch the reed switch[83] with magnet[7], the lamp[76] will be light up. Move away the magnet [7], the lamp[76] will be off.

473. Touch Piece Controls the Lamp in the Circuit of Composite Pipe (2)
Replace the press switch[61] with the touch piece[80], if you touch the touch piece[80] with any sheetmetal, the lamp[76] will be on. Move away the sheetmetal, the lamp[76] will be off.



474.Light Controls the Lamp in the Circuit of Composite Pipe (2)

Replace the press switch[61] with the photoresistance[68], then turn on the switch[62], the lamp[76] will be on. If you cover the light of the photoresistance [68] with your hands, the lamp[76] will be off.

475. Water Controls the Lamp in the Circuit of Composite Pipe (2)

Replace the press switch[61] with touch piece[80], if you drop a drop of water on the touch piece[80] now, the lamp[76] will be on.

476.Press Switch Controls the Fan in the Circuit of Composite Pipe (2)

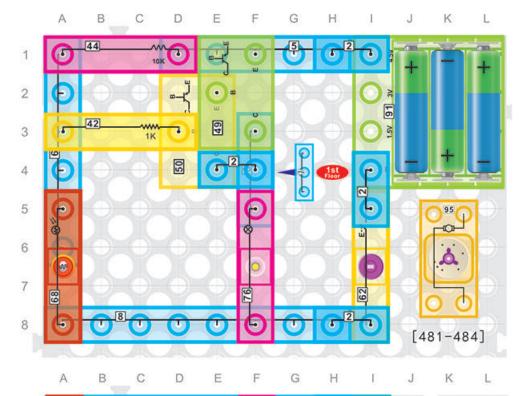
477. Magnet Controls the Fan in the Circuit of Composite Pipe (2)

478. Touch Piece Controls the Fan in the Circuit of Composite Pipe (2)

479.Light Controls the Fan in the Circuit of Composite Pipe (2)

480. Water Controls the Fan in the Circuit of Composite Pipe (2)

476-480, you just need to replace the lamp[76] with the motor[95] in the circuit of 471-475, then install the fan blade[60] in the motor[95].



481. Simple Automatic Street Lamp (1)

Build the circuit step by step, turn on the switch[62], when the photoresistance[68] meets any light, the lamp[76] will be off. If you cover the light of the photoresistance [68], the lamp[76] will be on. This principle can be used for making the simple automatic street lamp. In the daytime, the lamp[76] is off, and it will be on at night.

482.Simple Automatic Fan (1)

Replace the lamp[76] with the motor[95], then install the fan blade[60], turn on the switch[62], the fan blade[60] will start running at night, and it will stop in the daytime.

483.Light Controls the Automatic Lamp (1)

Change the position of the photoresistance[68] with 10K resistor[44], if you cover the light of the photoresistance[68], the lamp[76] will be off. When the photoresistance meets any light, the lamp[76] will be on. This is the light controls circuit.

484. Light Controls the Automatic Fan (1)

Replace the lamp[76] with the motor[95], then install the fan blade[60], whenever the photoresistance[68] meets any light, the fan blade will start running. If you cover the light of photoresitance[68], the fan blade[60] will stop. In this circuit, the fan blade [60] is controlled by the light, is it useful in daily life? Absolutely!

485. Simple Automatic Street Lamp (2)

Build the circuit, turn on the switch[62], the lamp[76] will be in the evening, and it will be off in the daytime.

486. Simple Automatic Fan (2)

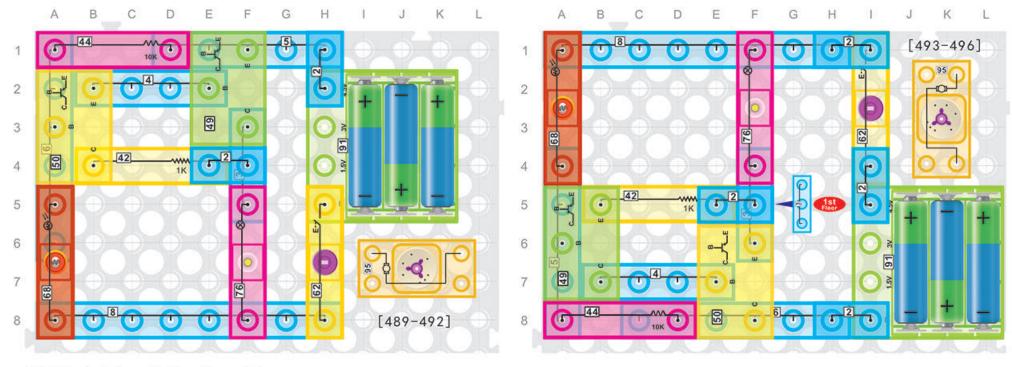
Replace the lamp[76] with the motor[95], then install the fan blade[60], turn on the switch[62], the fan blade[60] will start running at night, and it will stop in the daytime.

487.Light Controls the Automatic Lamp (2)

Change the position of the photoresistance[68] with 10K resistor[44], if you cover the light of the photoresistance[68], the lamp[76] will be off. When the photoresistance meets any light, the lamp[76] will be on. This is the light controls circuit.

488.Light Controls the Automatic Fan (2)

Replace the lamp[76] with the motor[95], then install the fan blade[60], whenever the photoresistance[68] meets any light, the fan blade[60] will start running. If you cover the light of photoresitance[68], the fan blade[60] will stop.



489. Simple Automatic Street Lamp (3)

Build the circuit, turn on the switch[62], the lamp[76] will be in the evening, and it will be off in the daytime.

490. Simple Automatic Fan (3)

Replace the lamp[76] with the motor[95], then install the fan blade[60], turn on the switch[62], the fan blade[60] will start running at night, and it will stop in the daytime.

491.Light Controls the Automatic Lamp (3)

Change the position of the photoresistance[68] with 10K resistor[44], if you cover the light of the photoresistance[68], the lamp[76] will be off. When the photoresistance meets any light, the lamp[76] will be on. This is the light controls circuit.

492. Light Controls the Automatic Fan (3)

Replace the lamp[76] with the motor[95], then install the fan blade[60], whenever the photoresistance[68] meets any light, the fan blade[60] will start running. If you cover the light of photoresitance[68], the fan blade[60] will stop.

493. Simple Automatic Street Lamp (4)

Build the circuit, turn on the switch[62], the lamp[76] will be in the evening, and it will be off in the daytime.

494. Simple Automatic Fan (4)

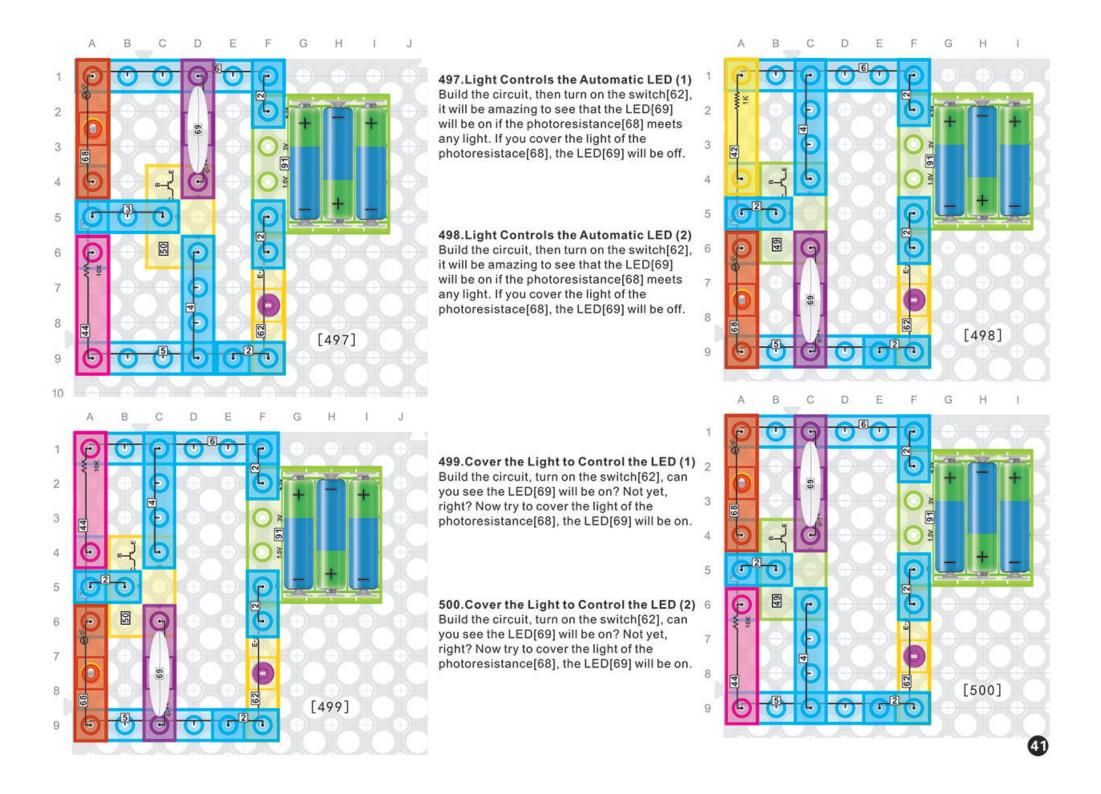
Replace the lamp[76] with the motor[95], then install the fan blade[60], turn on the switch[62], the fan blade[60] will start running at night, and it will stop in the daytime.

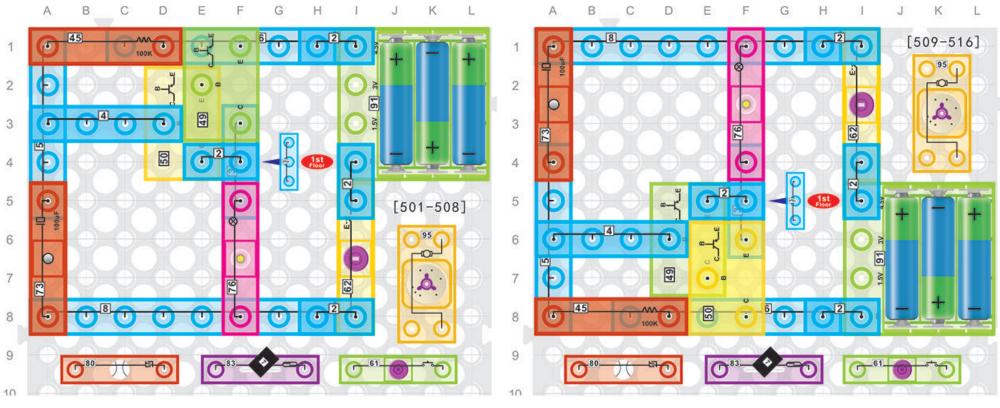
495.Light Controls the Automatic Lamp (4)

Change the position of the photoresistance[68] with 10K resistor[44], if you cover the light of the photoresistance[68], the lamp[76] will be off. When the photoresistance meets any light, the lamp[76] will be on. This is the light controls circuit.

496.Light Controls the Automatic Fan (4)

Replace the lamp[76] with the motor[95], then install the fan blade[60], whenever the photoresistance[68] meets any light, the fan blade[60] will start running. If you cover the light of photoresitance[68], the fan blade[60] will stop.





501. Switch Controls the Deferred Lamp (1)

Build the circuit, turn on the switch[62], wait for a little while, the lamp[76] will be on later.

502.Press Switch Controls the Deferred Lamp (1)

Replace the switch[62] with the press switch[61], then press the press switch[61], wait for a little while, the lamp[76] will be on later.

503. Magnet Controls the Deferred Lamp (1)

Replace the switch[62] with the reed switch[83], then move the reed switch[83] with magnet[7], wait for a little while, and the lamp[76] will be on later.

504. Touch Piece Controls the Deferred Lamp (1)

Replace the switch[62] with touch piece[80], if you touch the touch piece[80] with any sheetmetal, wait for a little while, the lamp[76] will be on later.

505.Switch Controls the Deferred Motor (1)

506. Press Switch Controls the Deferred Motor (1)

507. Magnet Controls the Deferred Motor (1)

508. Touch Piece Controls the Deferred Motor (1)

505-508, you just need to replace the lamp[76] with the motor[95] in the circuit of 501-504.

509.Switch Controls the Deferred Lamp (2)

Build the circuit, turn on the switch[62], wait for a little while, the lamp[76] will be on later.

510.Press Switch Controls the Deferred Lamp (2)

Replace the switch[62] with the press switch[61], then press the press switch [61], wait for a little while, the lamp[76] will be on later.

511. Magnet Controls the Deferred Lamp (2)

Replace the switch[62] with the reed switch[83], then move the reed switch[83] with magnet[7], wait for a little while, and the lamp[76] will be on later.

512. Touch Piece Controls the Deferred Lamp (2)

Replace the switch[62] with touch piece[80], if you touch the touch piece[80] with any sheetmetal, wait for a little while, the lamp[76] will be on later.

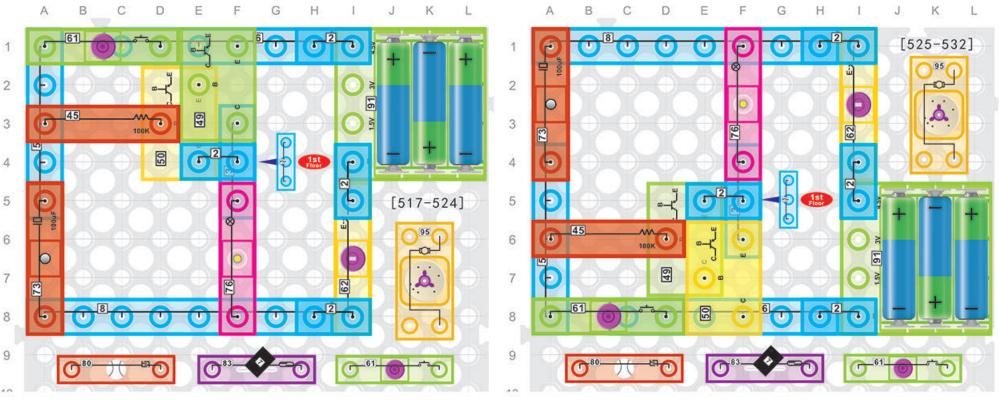
513.Switch Controls the Deferred Motor (2)

514. Press Switch Controls the Deferred Motor (2)

515. Magnet Controls the Deferred Motor (2)

516. Touch Piece Controls the Deferred Motor (2)

513-516, you just need to replace the lamp[76] with the motor[95] in the circuit of 509-512.



517. Switch Controls the Timed Lamp (1)

Build the circuit, then put a book near your bed, turn on the switch[62], then press the press switch[61], the lamp[76] will be on for a while. Chang a larger capacitor, now you can set the time that the lamp[76] can be turned off automatically.

518.Press Switch Controls the Timed Lamp (1)

Replace the switch[62] with the press switch[61], if you press the press switch[61] now, the lamp[76] will be on for a while.

519. Magnet Controls the Timed Lamp (1)

Replace the switch[62] with the reed switch[83], touch the reed switch[83] with magnet[7], then you can see the lamp[76] is on, and it will be stopped for a while.

520. Touch Piece Controls the Timed Lamp (1)

Replace the switch[62] with touch piece[80], if you touch the touch piece[80] with any sheetmetal, the lamp[76] will be lit on, also it will be stopped for a while.

521.Simple Timed Fan (1)

522. Press Switch Controls the Timed Fan (1)

523. Magnet Controls the Timed Fan (1)

524. Touch Piece Controls the Timed Fan (1)

521-524, you just need to replace the lamp[76] with the motor[95] in the circuit of 517-520, then install the fan blade[60].

525. Switch Controls the Timed Lamp (2)

Build the circuit, then put a book near your bed, turn on the switch[62], then press the press switch[61], the lamp[76] will be on for a while. Chang a larger capacitor, now you can set the time that the lamp[76] can be turned off automatically.

526.Press Switch Controls the Timed Lamp (2)

Replace the switch[62] with the press switch[61], if you press the press switch [61] now, the lamp[76] will be on for a while.

527. Magnet Controls the Timed Lamp (2)

Replace the switch[62] with the reed switch[83], touch the reed switch[83] with magnet[7], then you can see the lamp[76] is on, and it will be stopped for a while.

528. Touch Piece Controls the Timed Lamp (2)

Replace the switch[62] with touch piece[80], if you touch the touch piece[80] with any sheetmetal, the lamp will be lit on, also it will be stopped for a while.

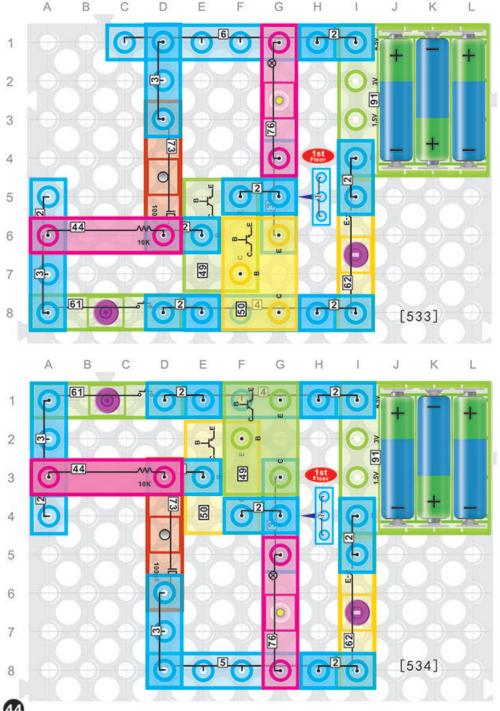
529. Simple Timed Fan (2)

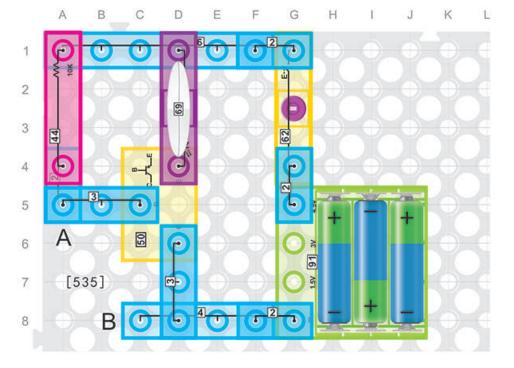
530. Press Switch Controls the Timed Fan (2)

531. Magnet Controls the Timed Fan (2)

532. Touch Piece Controls the Timed Fan (2)

529-532, you just need to replace the lamp[76] with the motor[95] in the circuit of 525-528, then install the fan blade[60].





533. Insensitive Lamp (1)

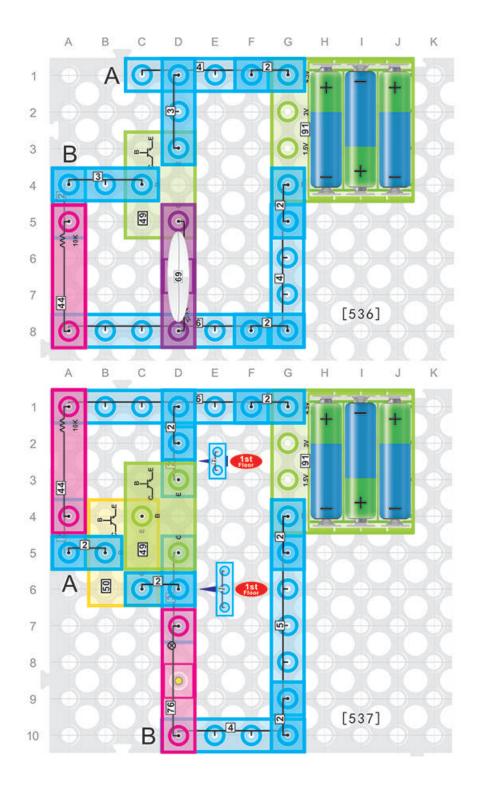
Build the circuit, turn on the switch[62], then press the press switch[61], the lamp[76] will be on for a while. Release the press switch[61], the lamp[76] will be turned off later.

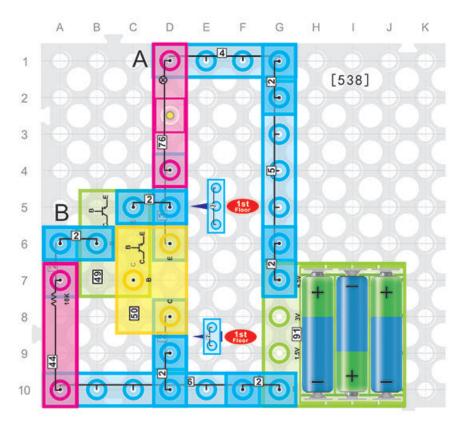
534. Insensitive Lamp (2)

Build the circuit, turn on the switch[62], then press the press switch[61], wait for a minute, the lamp[76] will be turned on. And it will be off later.

535. Wire Controls the LED Alarm (1)

Build the circuit, turn on the switch[62], you can see the LED[69] will be on. If you connect the point A and B with small wire, then the LED[69] will be off. Connect your belongings with the small wire, whenever the small wire is cut, you can get the alarm from the LED[69].



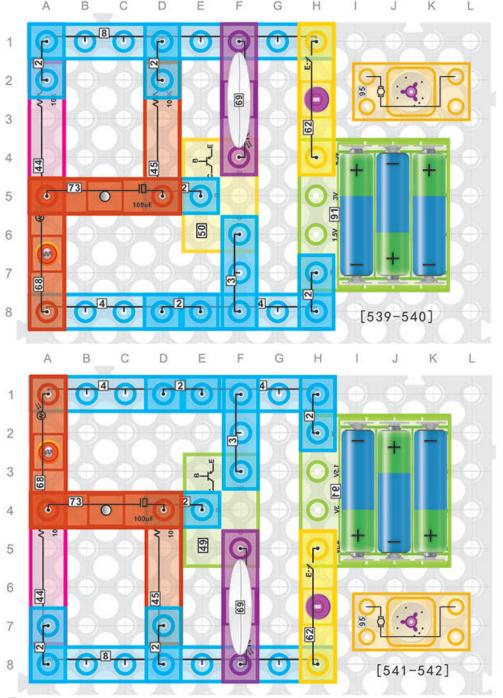


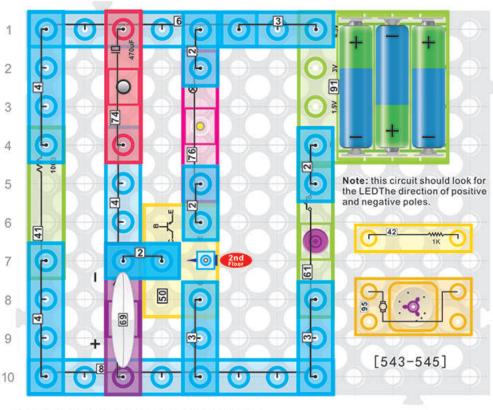
536. Wire Controls the LED Alarm (2)

Use a small and long wire to connect through your bike, motor or anything else, then connect the wire with point A and B. Whenever the small wire is cut, you can get the alarm from the LED[69].

537. Wire Controls the LED Alarm in the Circuit of Composite Pipe (1) Use a small and long wire to connect through your bike, motor or anything else, then connect the wire with point A and B. Whenever the small wire is cut, you can get the alarm from the LED[69].

538. Wire Controls the LED Alarm in the Circuit of Composite Pipe (2) 537-538, it's similar to the circuit of 535-536. Whenever the small wire is cut, you can get the alarm from the Lamp[76].





539.Light Controls the Flashing LED (1)

Build the circuit, turn on the switch[62], then the LED[69] will be turned on. If you swing your hands on the photoresistance[68], you can see the LED[69] is flashing. 540.Switch Controls the the Flashing LED (1)

Replace the photoresistance[68] with the motor[95], then turn on the switch[62], if you turn the rotation shaft of the motor[95], you can also see the LED[69] is flashing.

541. Light Controls the Flashing LED (2)

Build the circuit, turn on the switch[62], then the LED[69] will be turned on. If you swing your hands on the photoresistance[68], you can see the LED[69] is flashing. 542.Switch Controls the the Flashing LED (2)

Replace the photoresistance[68] with the motor[95], then turn on the switch[62], if you turn the rotation shaft of the motor[95], you can also see the LED[69] is flashing.

543. Make the Lightening Gun

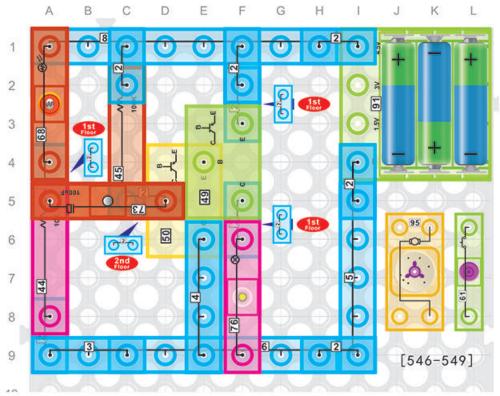
Build the circuit, press the press switch[61], the lamp[76] will flash up and gone instantly. Release the press switch[61], the LED[69] will also flash up and gone instantly. Now press the press switch[61], the lamp[76] will flash again. This circuit can be used in making the lightening gun.

544.Instant Flash Lamp

Build the circuit, disconnect the Resistor(100 Ω)[41], then press the switch [62], you can see the lamp[76] will flash up and gone instantly.

545. Sluggish Fan Blade

Build the circuit step by step, replace the lamp[76] with the motor[95], then install the fan blade[60]. Now press the press switch[61], you can see the fan blade start running for seveal circles and then stop. Press it (press switch[61]) again, it's the same.



546. Light Controls the Lamp for Intervals

Buile the circuit, the lamp[76] will be on. If you cover the light on the photoresistance[68], the lamp[76] will be off for a short time intervals.

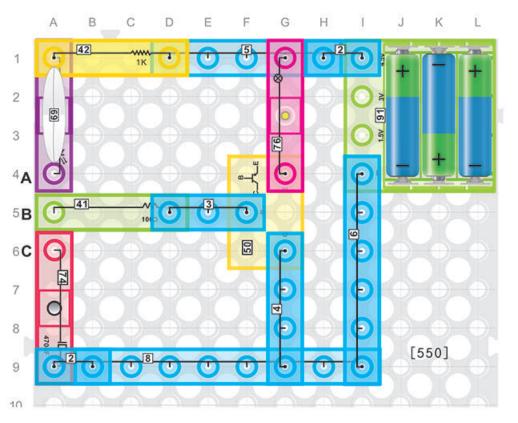
547.Press Switch Controls the Lamp for Intervals

Replace the photoresistance[68] with the press switch[61], press or release the press switch[61], the lamp[76] will be off and on in a short time.

548. Light Controls the Fan for Intervals (1)

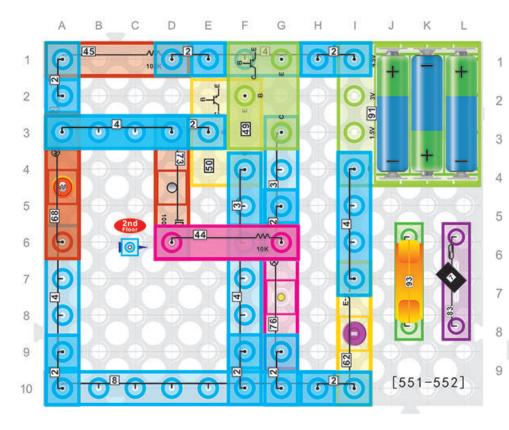
549. Light Controls the Fan for Intervals (2)

548-549, replace the lamp[76] with the motor[95] in the circuit of 547-548, then install the fan blade[60].



550. Charge and Discharge of the Capacitor

Build the circuit, then conncet point A and B with a small wire, now you can see the LED[69] flash up instantly. Because it's charging for the capacitor now. Take down the wire between point A and B, then connect with point B and C, then you can see the lamp[76] is flashing, because the capacitor is discharging to the transistor though the resistor $(100 \ \Omega)[41]$.

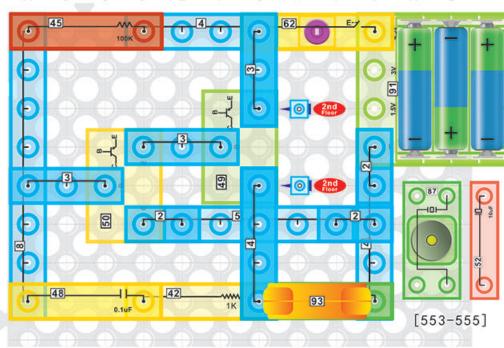


551. Make the Automatic Pharos

Build the circuit, turn on the switch[62], the lamp[76] will flash in the evening, and it will be shining at night, because there's no light on the photoresistance [68] at night. Therefore, in the daytime, the lamp[76] will be off when the photoresistance[68] meets any light. This circuit is widely used in making the automatic pharos.

552. Magnet Controls the Rhythmical Sounds

Replace the lamp[76] with the speaker[93], and also replace the photoresistance[68] with the reed switch[83] from the upper circuit. Then turn on the switch[62], if you touch the reed switch[83] with magnet[7] now, you can hear some rhythmical sounds.



553. Mediant Voice-frequency Eletric Circuit

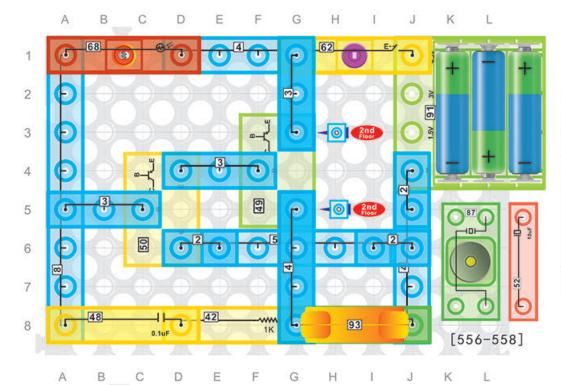
Build the circuit, connect the switch[62], then you can hear some mediant sounds from the speaker[93]. Thi is the rsult of vibration that caused from noise gain when the current of transistors pass the capacitor (0.1 uF)[48]. It's the alternating voice-frequency electric waves that make this sounds from the speaker[93].

554. High Pitch of Voice-frequency Eletric Circuit

Replace the capacitor (0.1 uF) [48] with the buzzer[87], turen on the switch[62], you will hear some jarring sounds from the speaker[93].

555.Low Pitch of Voice-frequency Eletric Circuit

Replace the capacitor[48] (0.1 uF) with the capacitor(10 uF)[52], then turn on the switch[62], you will hear the sounds like "Da, Da...".



556. Pitch-Shift of Mediant Sounds

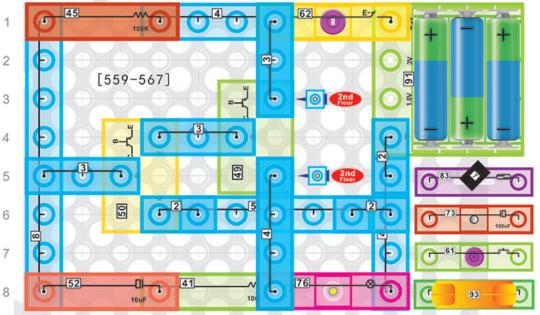
Build the circuit, then turn on the switch[62], no sounds can be heard from the speaker[93]. Now, if you cover the light of the photoresistance[68] with your hands, you can hear the mediant sounds from the speaker[93].

557. Pitch-Shift of High Pitch

Replace the capacitor (0.1 uF)[48] with the buzzer[87], turn on the switch[62], no sounds can be heard from the speaker[93]. Now if you cover the light of the photoresistance[68] with your hands, you can hear some jarring sounds from the speaker[93].

558. Pitch-Shift of Low Pitch

Replace the capacitor(0.1 uF)[48] with the capacitor(10 uF)[52], then turn on the switch[62], no sounds can be heard from the speaker[93]. Now if you cover the light of the photoresistance[68] with your hands, you can hear some rhythmical sounds from the speaker[93].



559. Quick Flash of Lamp

Build the circuit, then turn on the switch[62], the lamp[76] will keep flashing.

560. Slow Flash of Lamp

Replace the capacitor (10 uF)[52] with the capacitor(100 uF)[73], then turn on the switch[62], then lamp[76] will flash more slowly

561. Sounds of Cicada

Replace the lamp[76] with the speaker[93], then turn on the switch[62], you can hear the sounds of cicada from the speaker[93].

562. Press Switch Controls the Quick Flash of Lamp

563. Press Switch Controls the Slow Flash of Lamp

564. Press Switch Controls the Sounds of Cicada

562-564, replace the switch[62] with the press switch[61] in the circuit of

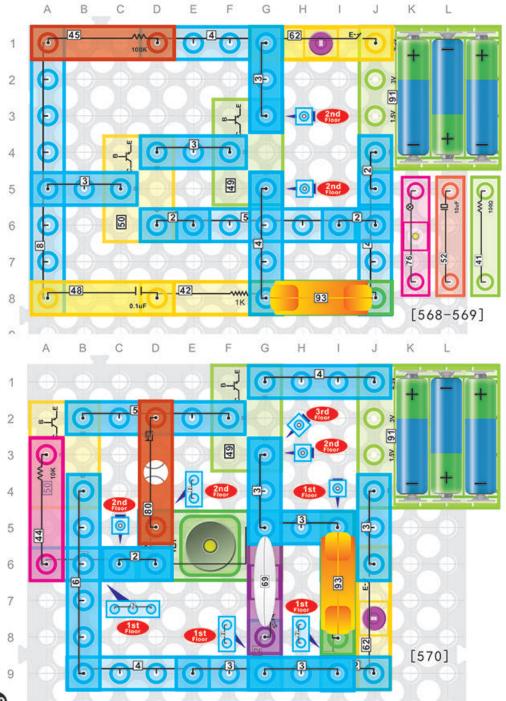
559-561, then press the press switch[61].

565. Magnet Controls the Quick Flash of Lamp

566. Magnet Controls the Slow Flash of Lamp

567. Magnet Controls the Sounds of Cicada

565-567, replace the switch[62] with the reed switch[83] in the circuit of 559-561, then touch the reed switch[83] with magnet[7].



568.Buzz of Mosquito in the Circuit

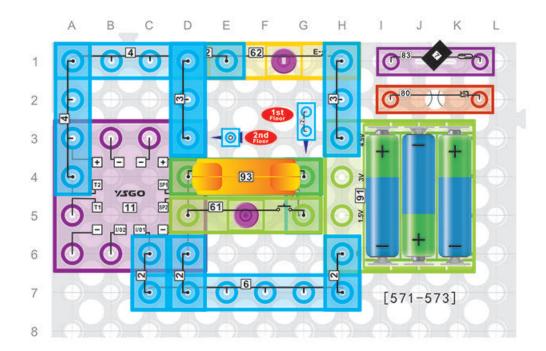
Build the circuit, then turn on the switch[62], you will hear the buzz of mosquito from the speaker[93].

569. Traffic Lights

Replace the speaker[93] with the lamp[76], then also repalce the capacitor (0.1 uF)[48] with the capacitor (0.1 uF)[52], take down the resistor $(100 \Omega)[41]$, then install the 1K resistor[42], now if you turn on the switch[62], the lamp[76] will keep flashing.

570.Lie Detector

Build the circuit, turn on the switch[62], if you touch the touch piece[80] with your fingers, there's something happens in the speaker[93] and LED[69]. Because people will be nervous and sweaty when they are lying. And the sweaty hands can lessen the current that pass through the skin. So we can use this principle to test whether they are lying or not.



571.Press Switch Controls the Intermittent Musical Door Bell

Build the circuit, turn on the switch[62], then press the press switch[61] rhythmically, you can hear some intermittent music. If the press switch [61] is installed outdoors with small wire, the music can be heard indoors when the visitor press it (press switch[61]).

572. Magnet Controls the Intermittent Musical Door Bell

Replace the press switch[61] with the reed switch[83], then turn on the switch[62], now if you touch the reed switch[83] with magnet[7], you can also hear the intermittent music from the speaker[93].

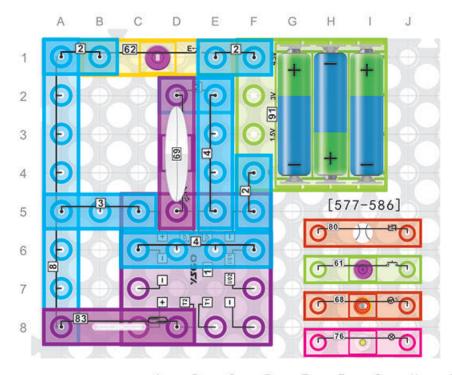
573. Touch Piece Controls the Intermittent Musical Door Bell Replace the press switch[61] with touch piece[80], then turn on the switch [62], if you touch the touch piece[80] with any sheetmetal now, you can hear the intermittent music from the speaker[93].

574. Magnet Controls the Intermittent Musical Door Bell and LED

Build the circuit, can you see anything happens? Not yet, right? Now keep touching the reed switch[83] with magnet[7], you can hear the intermittent music from the speaker[93], and also you can see the LED [69] is flashing. Fantastic!

575.Press Switch Controls the Intermittent Musical Door Bell and LED Replace the reed switch[83] with the press siwtch[61], then press or release the press switch rhymically.

576.Touch Piece Controls the Intermittent Musical Door Bell and LED Replace the reed switch[83] with touch piece[80], then touch the touch piece [80] with any sheetmetal.



577. Magnet Controls the Flashing LED

Build the circuit, then turn on the switch[62], the LED[69] will be flashing. Wait until the LED[69] is off, try to touch the reed switch[83] with magnet[7], wow, now you can see the LED[69] is flashing again with red light.

578. Touch Piece Controls the Flashing LED

Replace the reed switch[83] with touch piece[80], then turn on the switch[62], the LED[69] will be off later. If you want to turn on the LED[69] again, you just need to touch the touch piece[80] with sheetmetal.

579. Press Switch Controls the Flashing LED

Replace the reed switch[83] with the press switch[61], then turn on the switch[62], wait until you see the LED[69] is off. Now press the press switch[61], you can see the LED[69] is flash again.

580.Light Controls the Flashing LED

Replace the reed switch[83] with photoresistance[68], then turn on the switch[62]. Wait until you see the LED[69] is off, then cover the photoresistance[68] with your hands, the LED[69] will be flashing again.

581. Water Controls the Flashing LED

Replace the reed switch[83] with touch piece[80], then turn on the switch[62], Wait until you see the LED[69] is of. If you drop a drop of water on the touch piece[80], you can see the LED[69] is flashing again.

582. Magnet Controls the Flashing Lamp

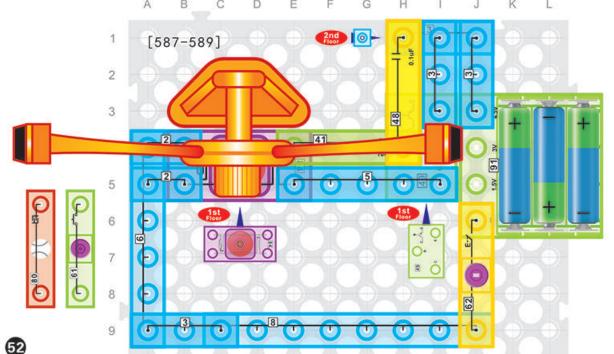
583. Touch Piece Controls the Flashing Lamp

584. Press Switch Controls the Flashing Lamp

585. Light Controls the Flashing Lamp

586. Water Controls the Flashing Lamp

582-586, replace the LED[69] with the lamp[76] in the circuit of 577-581.



587. Magnet Controls the Windmill

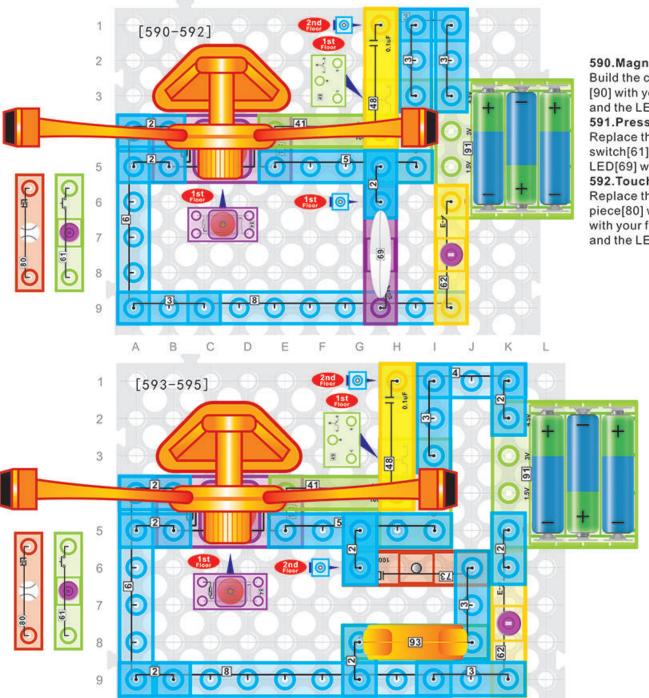
Build the circuit, turn on the switch[62], then rotate the blade of the windmill[90] with your fingers, you can see the windmill start running.

588.Press Switch Controls the Windmill

Replace the switch[62] with the press switch[61], press the press switch[61], then rotate the blade of the windmill[90] with your fingers, you can see the windmill start running.

589. Touch Piece Controls the Windmill

Replace the switch[62] with touch piece[80], if you touch the touch piece[80] with sheetmetal, then rotate the blade of the windmill[90] with your fingers, you can see the windmill start running.



590. Magnetic Windmill and LED

Build the circuit, turn on the switch[62], rotate the blade of the windmill [90] with your fingers, you can see the magnetic windmill start running, and the LED[69] will keep flashing.

591.Press Switch Controls the Magnetic Windmill and LED Replace the switch[62] with the press switch[61], if you press it (press switch[61]), you can see the magnetic windmill start running, and the LED[69] will keep flashing.

592. Touch Piece Controls the Magnetic Windmill and LED Replace the switch[62] with touch piece[80], if you touch the touch piece[80] with sheetmetal, then rotate the blade of the windmill[90] with your fingers, you can see the magnetic windmill start running, and the LED[69] will keep flashing.

593. Switch Controls the Sounds and the Magnetic Windmill

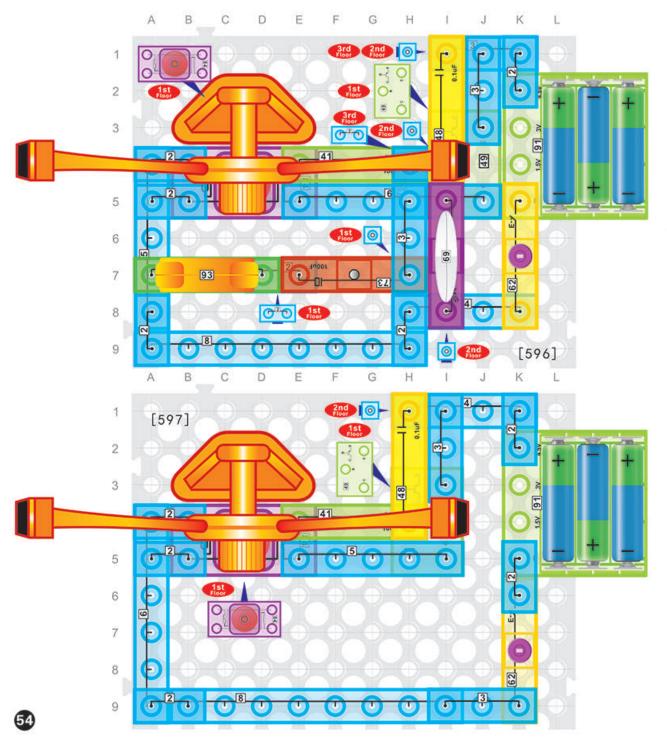
Build the circuit, turn on the switch[62], if you rotate the blade of the windmill[90] with your fingers, you can see the magnetic windmill keep running, also you can hear the sounds like "Da Da..." from the speaker[93].

594. Press Switch Controls the Sounds and the Magnetic Windmill

Replace the switch[62] with the press switch[61], then press the press switch[61], if you rotate the blade of the windmill[90] with your fingers, you can see the magnetic windmill keep running, also you can hear the sounds like "Da Da..." from the speaker[93].

595. Touch Piece Controls the Sounds and the Magnetic Windmill

Replace the switch[62] with the touch piece[80], then touch the touch piece[80] with sheetmetal, if you rotate the blade of the windmill[90] with your fingers, you can see the magnetic windmill keep running, also you can hear the sounds like "Da Da..." from the speaker[93].

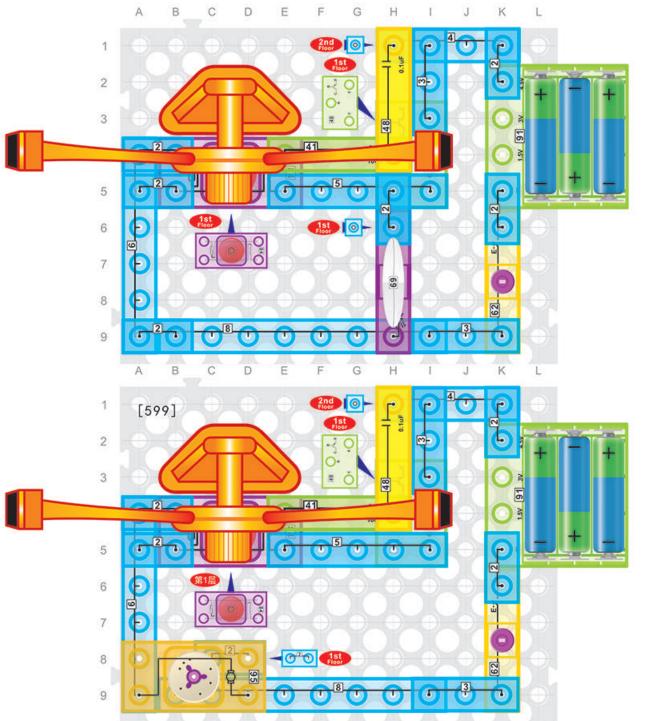


596.Switch Controls the Sounds, the Magnetic Windmill, and LED

Build the circuit, then turn on the switch[62], rotate the blade of the windmill[90] with your fingers, you can see the magnetic windmill keep running and the LED[69] is flashing, also you can hear the sounds like "Da Da..." from the speaker[93].

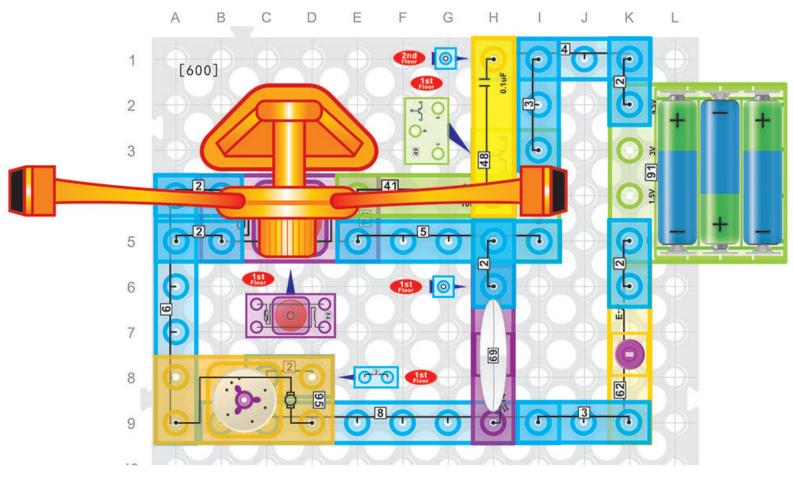
597. Fast Running of Magnetic Windmill

Build the circuit, turn on the switch[62], then rotate the blade of the windmill[90] with your fingers, you can see the magnetic windmill keep running fast.



598. Fast Running of Magnetic Windmill and LED Build the circuit, turn on the switch[62], then rotate the blade of the windmill[90] with your fingers, you can see the magnetic windmill keep running fast, also the LED [69] will keep flashing with the windmill.

599.Control the Running of Magnetic Windmill and Motor Build the circuit, turn on the switch[62], then rotate the blade of the windmill[90] with your fingers, you can see the magnetic windmill keep running fast, also the motor[95] will start working with the windmill.



600.Control the Running of Magnetic Windmill, Motor and LED
Build the circuit, turn on the switch[62], then rotate the blade of the windmill[90]
with your fingers, you can see the magnetic windmill keep running, while the motor
[95] is working in Intermittent, and the LED[69] is flashing with the windmill.

