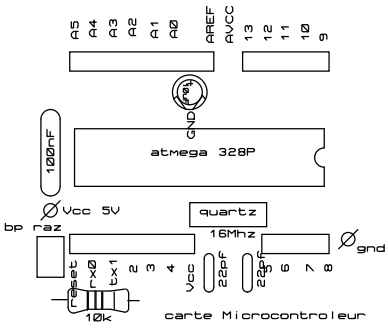
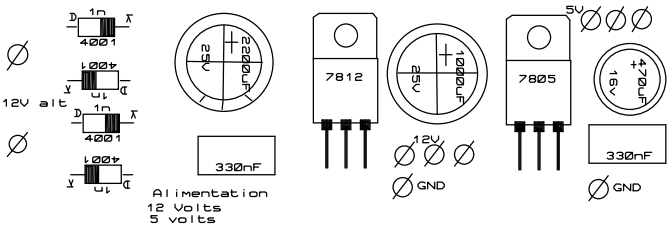
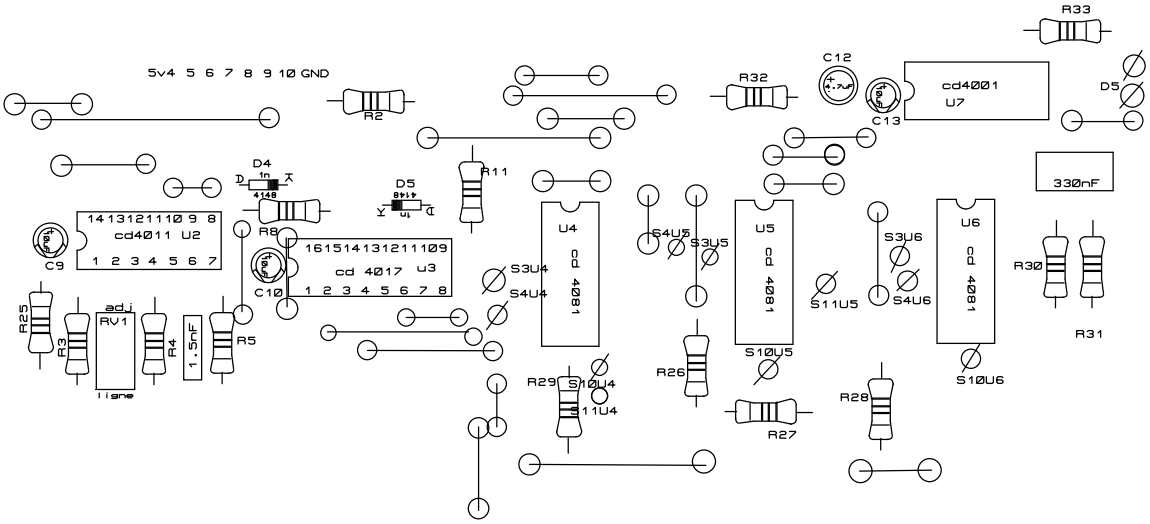
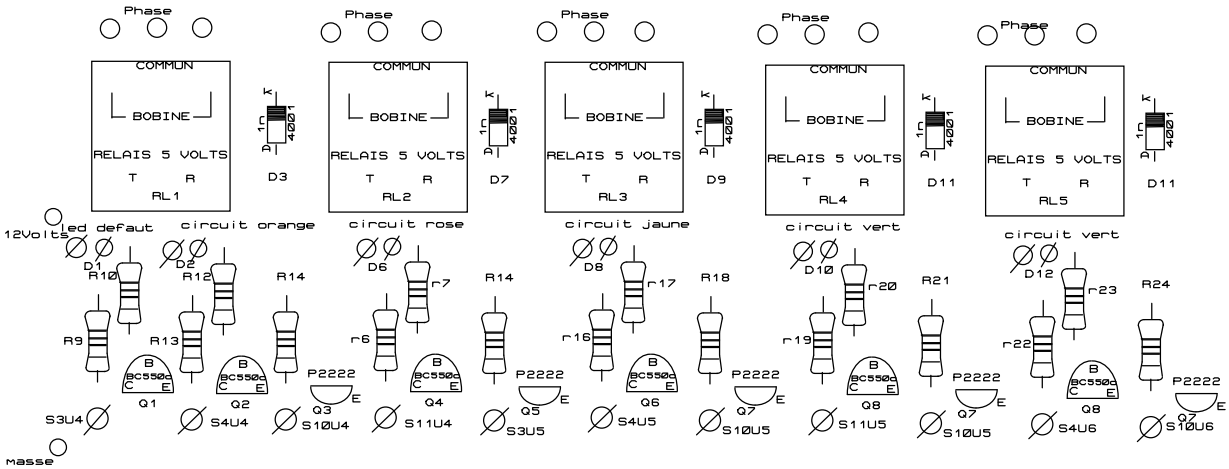

A5 A4 A3 A2 A1 A0 AREF AVCC 13 12 11 10 9
100nF
atmega 328P
Vcc 5V
bp raz
quartz
16Mhz
gnd
reset rx0 tx1 2 3 4 Vcc 22pF 22pF 6 7 8
10k
carte Microcontroleur


1n 4001
12V alt
2200uF 25V
330nF
Alimentation
12 Volts
5 volts
7812
1000uF 25V
12V
GND
7805
5V
470uF 16V
330nF
GND


R33
5v4 5 6 7 8 9 10 GND
R2
R32
C12
cd4001
U7
C13
D5
330nF
D4
1n 4148
D5
1n 4148
R11
14131211109 8
cd4011 U2
1 2 3 4 5 6 7
C9
R8
16151413121110 9
cd 4017 u3
1 2 3 4 5 6 7 8
C10
S3U4
S4U4
U4
cd 4081
C4U5
S3U5
U5
cd 4081
S3U6
S4U6
U6
cd 4081
S11U5
R30
R31
R25
R3
adj
RV1
R4
1.5nF
R5
ligne
R29
S10U4
S11U4
R26
S10U5
R27
R28
S10U6


Phase
COMMUN
BOBINE
RELAIS 5 VOLTS
T R
RL1
RL2
RL3
RL4
RL5
1n 4001
D3
D7
D9
D11
D11
12Volts
led defaut
circuit orange
circuit rose
circuit jaune
circuit vert
circuit vert
D1
D2
D6
D8
D10
D12
R10
R12
R14
r7
R14
r17
R18
r20
R21
r23
R24
R9
R13
r6
r16
r19
r22
BC550c
B C E
Q1
Q2
Q3
Q4
Q5
Q6
Q7
Q8
Q7
Q8
Q7
P2222
S3U4
S4U4
S10U4
S11U4
S3U5
S4U5
S10U5
S11U5
S10U5
S4U6
S10U6
masse