CONTROL BOX

7812

1   3   V+

2

Sec.
12vac

1000µf
35v

.1µf

10µf
35v

1K

130

R11

To relay 1

To relay 2
To vactrol

To common

V+

V+

16   10   13

R9   R10

R4

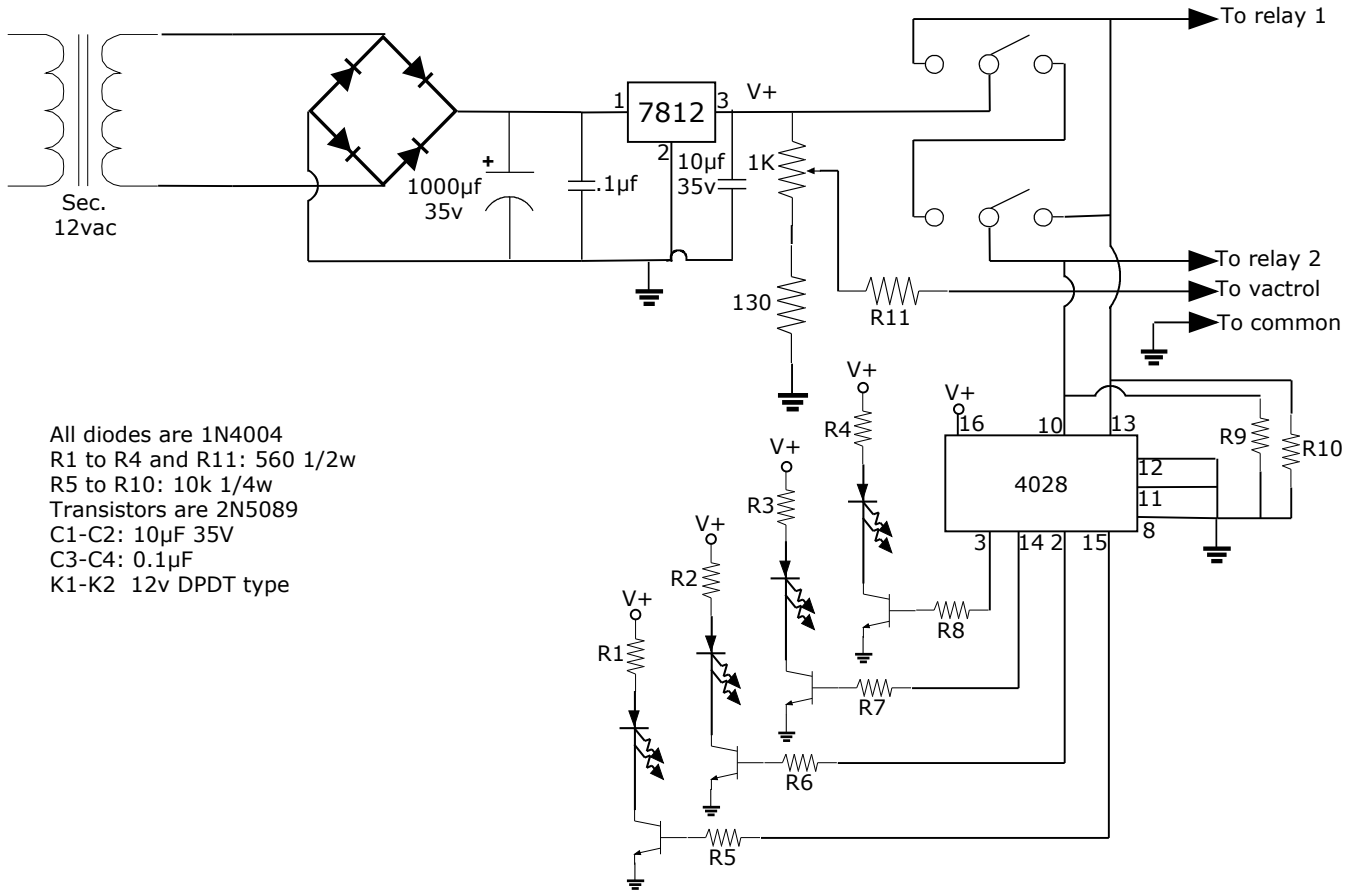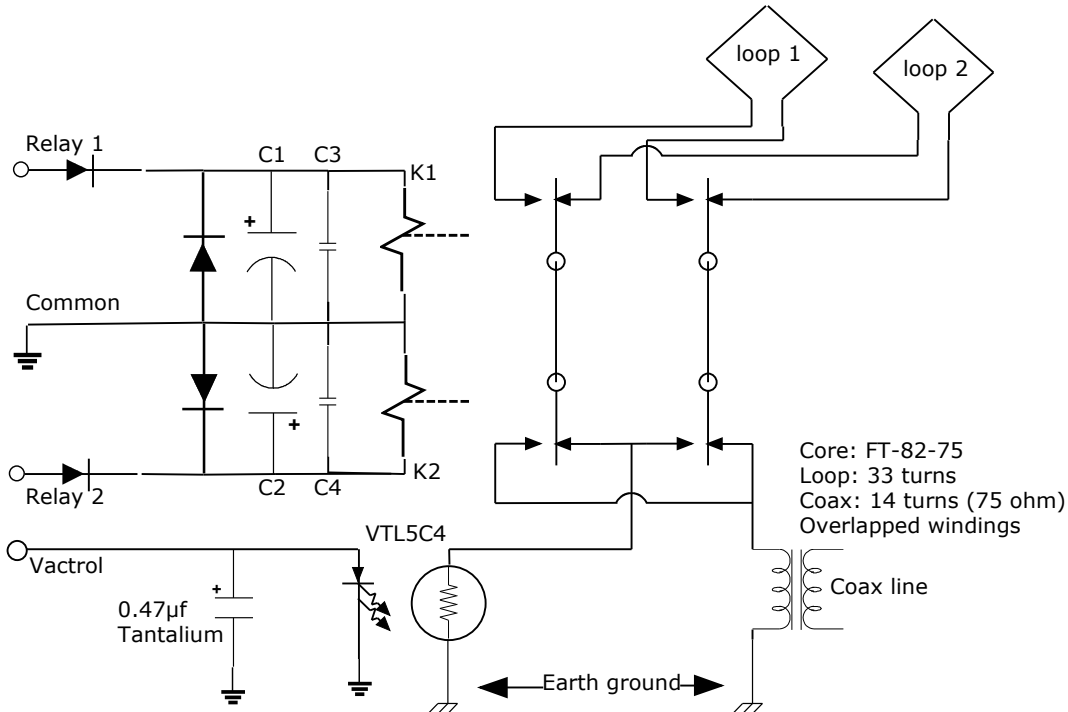**4028**

12
11
8

3   14 2   15

R3

R8

V+

R2

R7

V+

R1

R6

R5

All diodes are 1N4004
R1 to R4 and R11: 560 1/2w
R5 to R10: 10k 1/4w
Transistors are 2N5089
C1-C2: 10µF 35V
C3-C4: 0.1µF
K1-K2 12v DPDT type

RELAY BOX

loop 1   loop 2

Relay 1

C1   C3

K1

Common

Relay 2

C2   C4

K2

Vactrol

0.47µf
Tantalium

VTL5C4

Core: FT-82-75
Loop: 33 turns
Coax: 14 turns (75 ohm)
Overlapped windings

Coax line

←—— Earth ground ——→

My K9AY control system
Sylvain Naud, fall 2008