

REVISION 2e: CORRECTED ERROR IN RL2

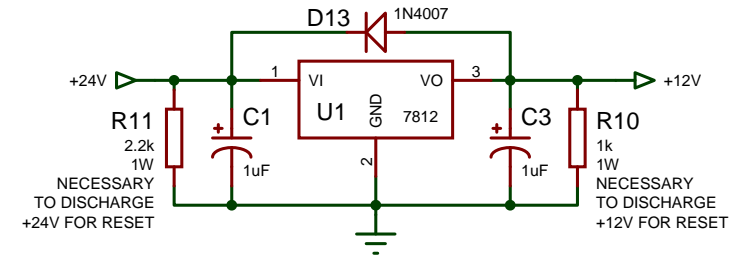
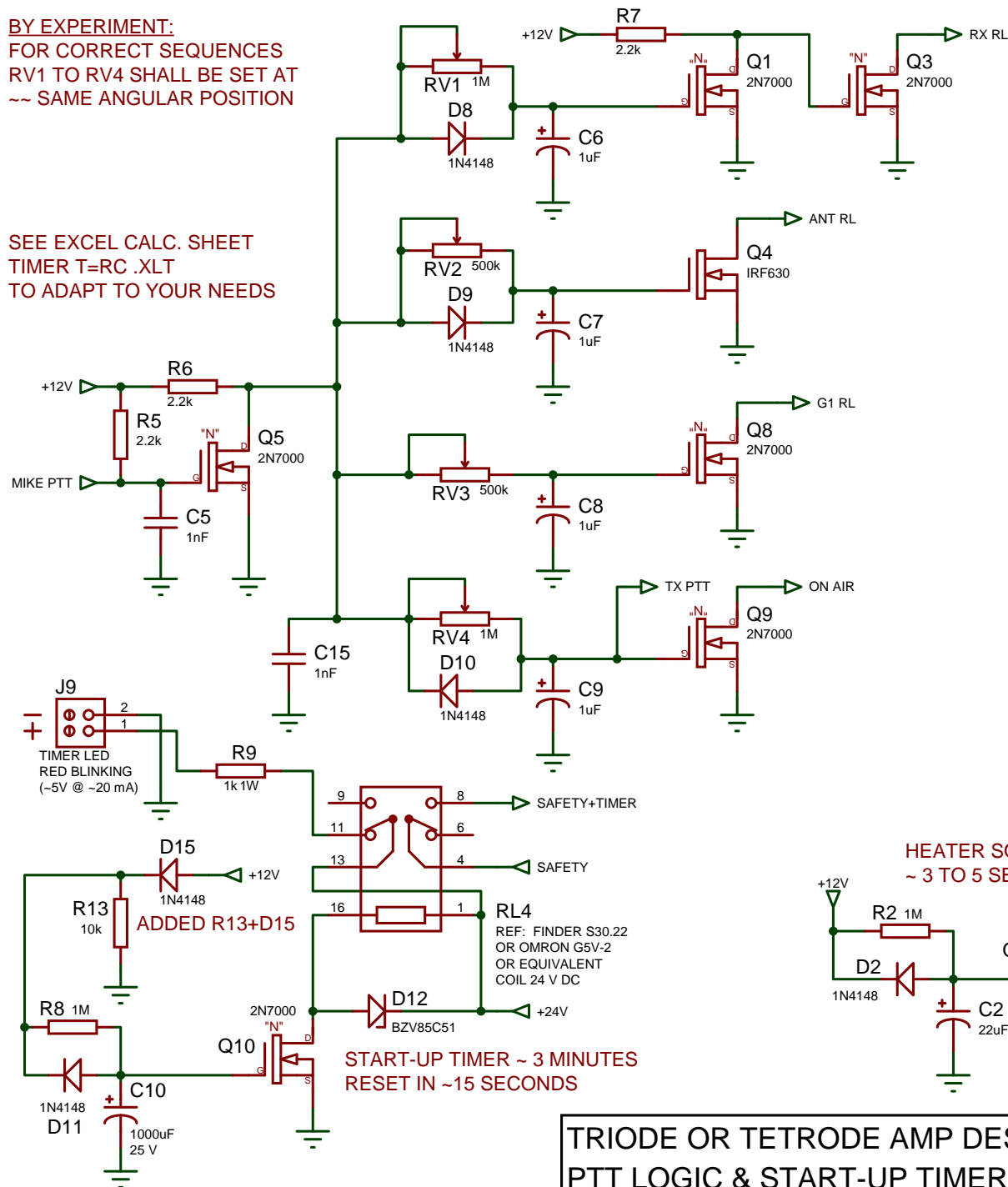


**THERMAL BI METALLIC SWITCH "NO"
CLOSES AT -80°C AND OPENS AT -65 °C
MOUNTED FLAT ON HEATER RESISTOR
6.8k @ 25W ARCOL HS25 OR EQUIV.
AND PLACED IN FREE CALM AIR AREA.
(!!! RESISTOR SURFACE TEMPERATURE
CAN REACH UP-TO ~130°C !!!)
NOTE: A 5.6k CAN BE USED IF NECESSARY
DUE TO FIXATION POSTS HEAT DISSIPATION,
OR USE SOME HEAT RESISTANT INSULATING
MATERIAL BETWEEN RESISTOR AND POSTS.**

SEE ALSO ALTERNATIVE ELECTRONIC TIMER SOLUTION !

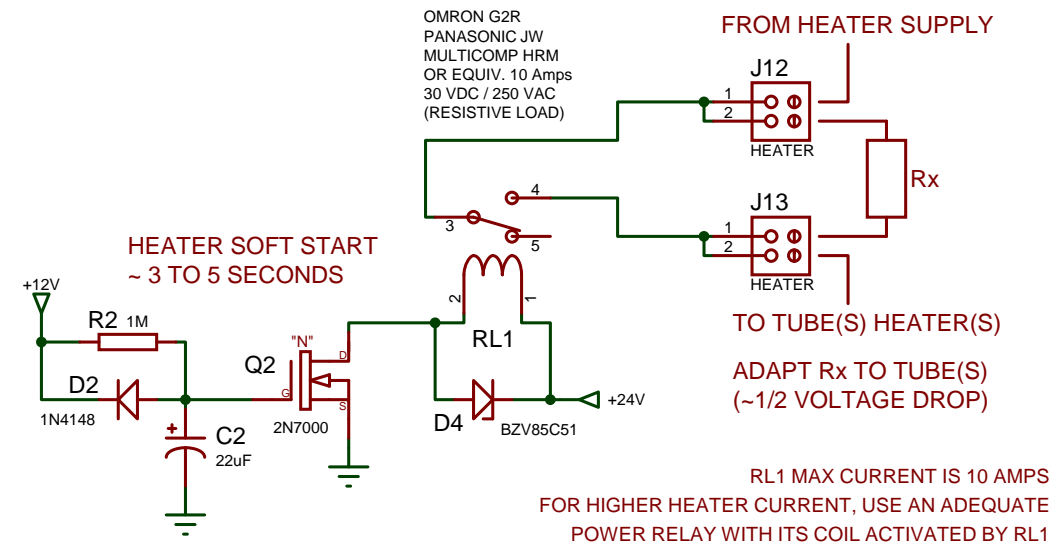
BY EXPERIMENT:
FOR CORRECT SEQUENCES
RV1 TO RV4 SHALL BE SET AT
~~ SAME ANGULAR POSITION

SEE EXCEL CALC. SHEET
TIMER T=RC .XLT
TO ADAPT TO YOUR NEEDS



2N7000: OR EQUIVALENT
"N" MOSFET, P > 0.3W, ID MAX > 200mA, VDS > 60V
RDS(ON) < 5 OHMS @ VGS10V & ID 0.2A

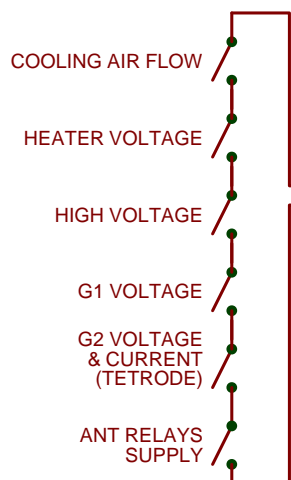
IRF630: OR EQUIVALENT
"N" MOSFET, P > 60W, ID MAX > 4A, VDS > 150V
RDS(ON) < 3 OHMS @ VGS10V & ID 2A



TRIODE OR TETRODE AMP DESIGN PTT LOGIC & START-UP TIMERS

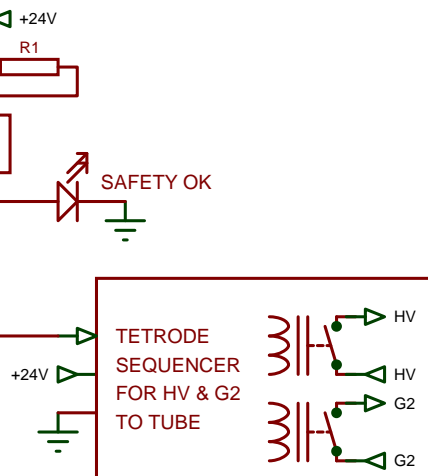
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BY: F1FRV@SFR.FR
DOC N°: AMATEUR RADIO

SAFETY CHAIN

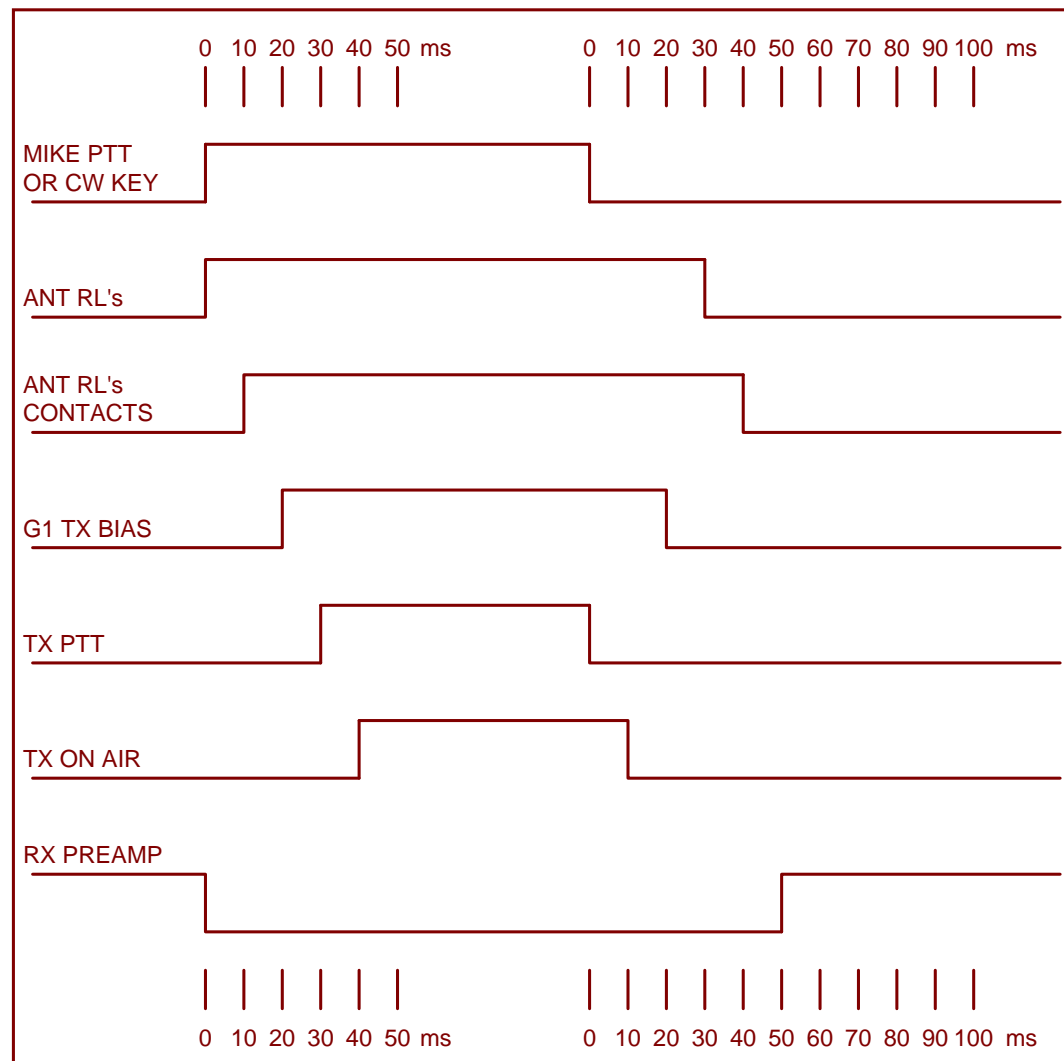


SAFETY CONTACTS
NORMALLY OPEN, CLOSED WHEN OK
YOU CAN ADD OR REMOVE
ALL SAFETIES YOU WANT OR
DONT WANT IN THIS CHAIN ...
(REMOVE AT YOUR OWN RISK)

**FOR TRIODES
MINIMUM SAFETY
IN SAFETY CHAIN
IS ONLY TRIP ON
EXCESS OF GRID CURRENT**



**FOR ANTENNA RELAYS:
BEFORE SELECTING VACUUM RELAYS, CHECK MANUFACTURER DATA
FOR LIFE EXPECTANCY (OFTEN ONLY 100 000 CYCLES !!!!)**



**SEE SPECIFIC FRONT PLATES WITH LEDS
1 FOR TRIODES, 1 FOR TETRODES**

TRIODE OR TETRODE AMP DESIGN
PTT & SAFETY LOGIC DIAGRAMS

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TRIODE OR TETRODE LINEAR AMPLIFIER DESIGN LOGIC BOARD WITH LOW COST RELAYS

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BY: F1FRV@SFR.FR
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PCB DIMENSIONS: 100x160 mm 236 HOLES DONT FORGET THE 4 STRAPS !!!

REV 2c TO ACCEPT ALL TYPES OF VARIABLE RESISTORS

REV 2d INCREASED LENGTH BETWEEN PADS FOR 1 W RESISTORS

ALL THESE TYPES OF VARIABLE
RESISTORS CAN BE USED

