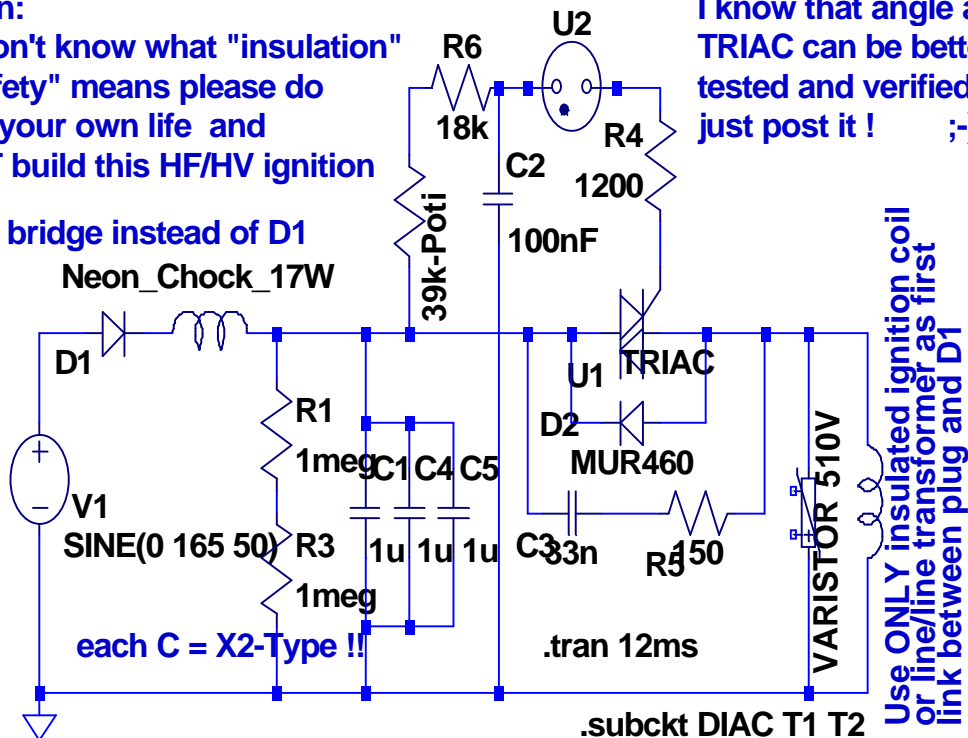


### Attention:

If you don't know what "insulation" and "safety" means please do respect your own life and DO NOT build this HF/HV ignition

use rect. bridge instead of D1



I know that angle and ignition of the TRIAC can be better. If you have tested and verified an improvement just post it ! ;-)

```
.subckt TRIAC MT2 G MT1
.param R=10K
Q1 N001 G MT1 0 NP
Q2 N001 N002 MT2 0 NP
Q3 N002 N001 MT1 0 PN
Q4 G N001 MT2 0 PN
R1 MT2 N002 {R}
R2 G MT1 {R}
.model PN NPN Cjc=10p Cje=10p
.model NP PNP Cjc=10p Cje=10p
.ends TRIAC
```

```
.subckt DIAC T1 T2
* default parameters
.param RS=10 ; series resistance
.param VK=20 ; breakdown voltage
Q1 N002 N001 T2 0 PN
Q2 N001 N002 N005 0 NP
R1 N002 N004 {20K*(VK-1)}
R2 N004 T2 9.5K
R3 N002 N005 9.5K
Q3 N004 N003 N005 0 PN
Q4 N003 N004 T2 0 NP
R4 T1 N005 {RS}
.model PN NPN Cjc=10p Cje=10p
.model NP PNP Cjc=10p Cje=10p
.ends DIAC
```