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Disclaimer short version:

This is a DIY project, use any provided information and/or materials at your own risk! I am not responsible for what you do with it!

Make sure that you know what you are doing! High voltage can kill!


THE
ELECTRONIC
ENGINEER

Materials for the PCB

Pcb without components is available at Tindie.com

PCB Russian Slayer eXciter		Get it from my Tindy Store		
Category	**Quantity**	**References**	**Value**	**Remarks**
Capacitors	1	C1	1u / 400V	Maplin SC88V I used Wima MKP4
Capacitors	1	C2	22u	Digikey P5877-ND I used NMG 105°C 22uF/450V
Resistors	2	R1,R3	10k	2 Watts
Resistors	1	R2	10k	2 Watts
Resistors	1	R4	1k5	2 Watts
Resistors	1	R5	22R	17 Watts, or use 2 x 47 Ohm/ 10 Watts in parallel
Integrated Circuits	1	U2	BT152	I also used a 3pin screw terminal for easy exchanging And use a small heatsink
Transistors	1	Q1	IRFP460	I also used a 3pin screw terminal for easy exchanging And use a small heatsink
Diodes	1	D1	HFA08TB60	I also used a 2pin screw terminal for easy exchanging And use a small heatsink
Diodes	3	D2,D4-D5	1N5408	
Diodes	1	D3	1.5ke15	
Diodes	1	D8	1.5ke440a	1,5ke400a will also work
Miscellaneous	1	F1	Fuse 5AT	Fuseholder with 5A slow fuse
Miscellaneous	6	J1-J5,J8	TBLOCK-I2	2pin screw terminal
Miscellaneous	1	J9	TBLOCK-M3	3 pin screw terminal

Potmeter 22K Make sure it has a plastic dial, not Metal!
2 power switches to operate the inductive loads
4 ballast transformers (fluorescent light transformers) I used Tridonic EC30 C502K
And you'll need a power cord to connect the circuit to your outlet. I would recommend using a isolation transformer for safety

Secondairy coil			
Isolated copper wire	AWG 32 (0.2 mm^2)	1000 windings	This is approx.. 25m total length
PVC Pipe 90mm diameter	Length 30cm		
Isolation varnish	Make sure to apply a thick layer of varnish to increase electric isolation		

Primairy coil			
Thick isolated wire	AWG 14 (approx. 2 mm^2)	4 windings	
PVC Pipe 120mm diameter	Length 30cm		

Wiring: