

Notes:

- -- you will most likely need a heat sink on the transistor.
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- -- This diagram is for DC solenoids rated up to about 24W: i.e. 12V@2A, 6V@4A, 24V@1A etc.
 -- The protection diode should preferable be a schottky type, which has better response times.
 Something like a MUR340 is good for loads up to 3A.