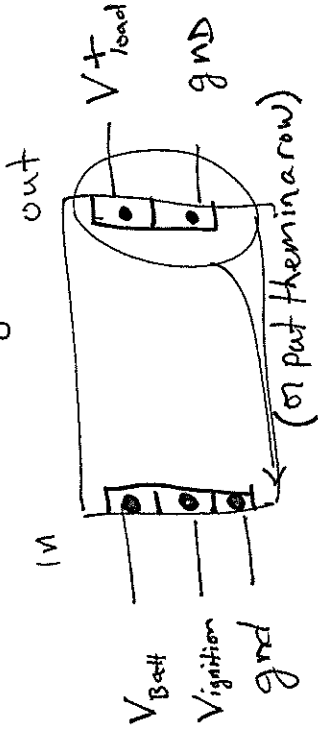


# Can Battery Protector



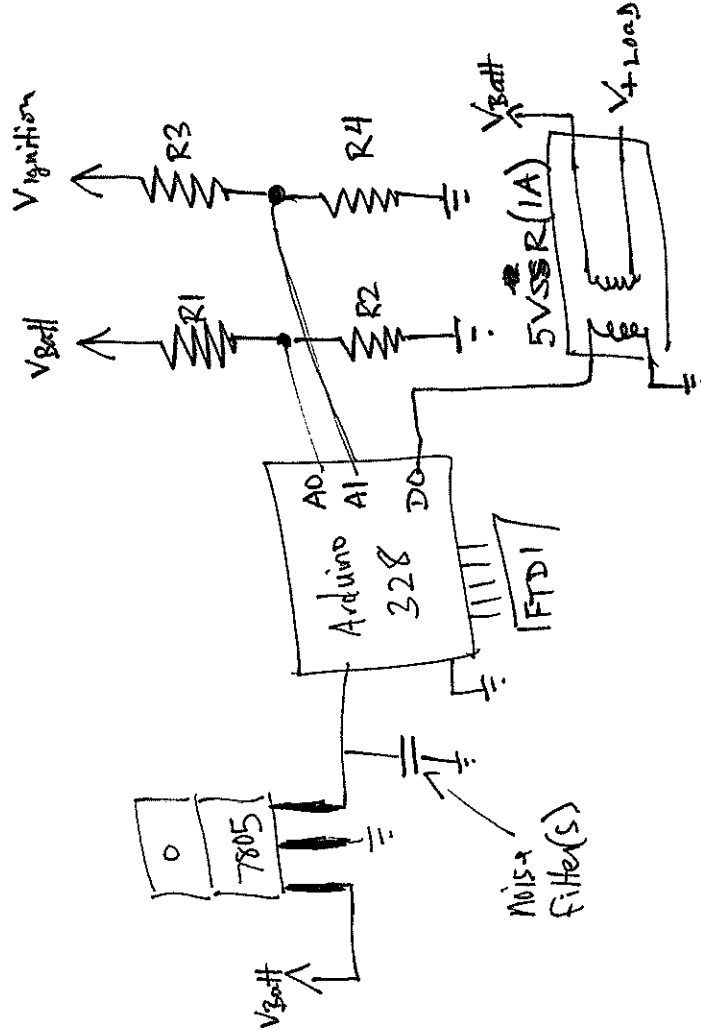
$$V_{Batt\ max} = 15V$$

$$V_{Arduino} = 4V$$

$$R1 + R2 = 150K\Omega$$

$$R2 = \frac{4V}{15V} \cdot 150K = 40K$$

$$R1 = 110K$$



$$R1 = 110K = R3$$

$$R2 = 40K = R4$$

$$\text{IF } (V_{ignition} = 1) \text{ OR } (V_{Batt} > V_{cutoff})$$

$$\rightarrow D0 = 1$$

$$\text{else } D0 = 0$$