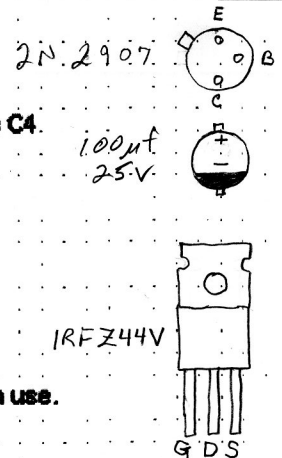


Special Note:
C2 and R3 are NOT USED when the Turn-off Enhancement circuit (Q2, D3, & R5) is used.

- D1 1N4744
- D2 FR602
- D3, D4 1N4148
- Q1 IRFZ44V
- Q2 2N2907
- D2 FR602
- C1, C4 100uF 25V LOW ESR
- C2 .047uF 25V
- C3 .0047uF 25V
- C5 .01uF 25V
- F1 2A AGC
- L1 1000uH
- L2 220uH
- LED STANDARD 20mA TYPE (ON HAND)
- R1, R3 100ohm 1/2W
- R2, R5 15K 1/4W OR 50K POT (ON HAND)
- R4 270K 1/4W OR 1MEG POT (ON HAND)
- R6 470ohm 1/4W
- U1 NE555
- F1 FUSE HOLDER

568-1364-1-ND	.15	.75
FR602DIET-ND	.77	4.62
568-1360-1-ND	.04	.40
1RF744.PCF-ND	2.57	5.14
497-2910-5-ND	1.08	3.24
PCE3731CT-ND	1.05	5.25
PS1H473J-ND	.54	2.70
PS1H472J-ND	.26	1.30
P4582-ND	.072	.72
283-2626-ND	.45	2.25
M8895-ND	3.99	7.98
M8859-ND	2.99	5.98
P100W-1BK-ND	.172	.86
296-1411-5-ND	.44	2.20
3536K-ND	1.49	1.49
314-1040-ND	1.10	2.20
314-1041-ND	.35	.35
314-1042-ND	.35	.35
345-1020-ND	.60	1.20
283-2626-ND	.45	2.25
3409K-ND	9.96	9.96

- NOTES:**
- C5 is optional, but recommended for stability
 - C4 should be a "Low ESR" capacitor for best results
 - For only a few cents difference, C1 can be the same as C4.
 - Some cheaper batteries can reach 18 volts under high charge rates. We recommend the use of a Zener diode clamp (D1) to prevent possible damage to the timer chip.
 - We DO NOT recommend the use of the TLC555 timer. This part is a CMOS component, which has about HALF the drive capability of the Bi-Polar NE555 (or LM555)
 - Since the circuit draws battery power, a trickle charger should be connected to the battery while the circuit is in use.



- * CLIP - COCODILE
- * INSULATOR - BLACK
- * INSULATOR - RED
- * TO 220 HEATSINK
- 2A 250 V GLASS FUSE
- S1 SWITCH >= 5A RATING (ON HAND)
- S2 SWITCH 1A RATING (ON HAND)
- BREADBOARD 4.5" x 6"

LORING ENGINEERING SERVICES		
Title	DESULFATOR - 12v -- Enhanced Turn-Off	
Size A	Document Number 02100201	Rev B

POSSIBLE INDUCTIONS FROM DIGIKEY:

220uH	TE2154-ND	3.0A	3.69	1000uH	TE2161-ND	.95A	4.24
250uH	513-1117-ND	4.2A	4.65	1000uH	M8818-ND	1.3A	2.99
220uH	M8841-ND	5.8A	3.99	1000uH	M8863-ND	1.3A	2.99
220uH	M8931-ND	6.8A	4.29	1000uH	M8830-ND	1.9A	4.34
220uH	M8875-ND	3.6A	4.69	1000uH	M8878-ND	1.9A	4.34
220uH	M8859-ND	2.4A	2.99	1000uH	M8847-ND	2.4A	3.99
				1000uH	M8895-ND	2.4A	3.99

* NOT NEEDED