NOTES:

1. C5 is optional, but recommended for stability.

2. C4 should be a "Low ESR" capacitor for best results.

3. For only a few cents difference, C1 can be the same as C4.

4. 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.

5. We DO NOT recommend the use of the TLC55 timer.
   This part is a CMOS component, which has about HALF the drive capability of the Bi-Polar NE555 (or LM555).

6. Since the circuit draws battery power, a trickle charger should be connected to the battery while the circuit is in use.

LORING ENGINEERING SERVICES

**DESULFATOR - 12v - Enhanced Turn-Off**

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* NOT NEEDED

http://home.comcast.net/~ddenhardt201263/desulfator/n_channel_schem.gif

1/11/2009