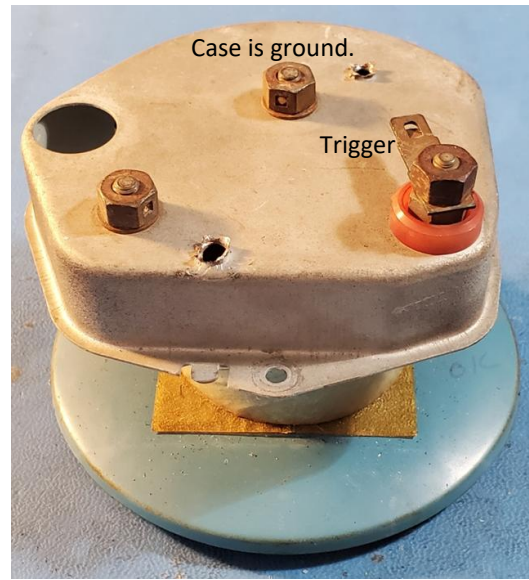
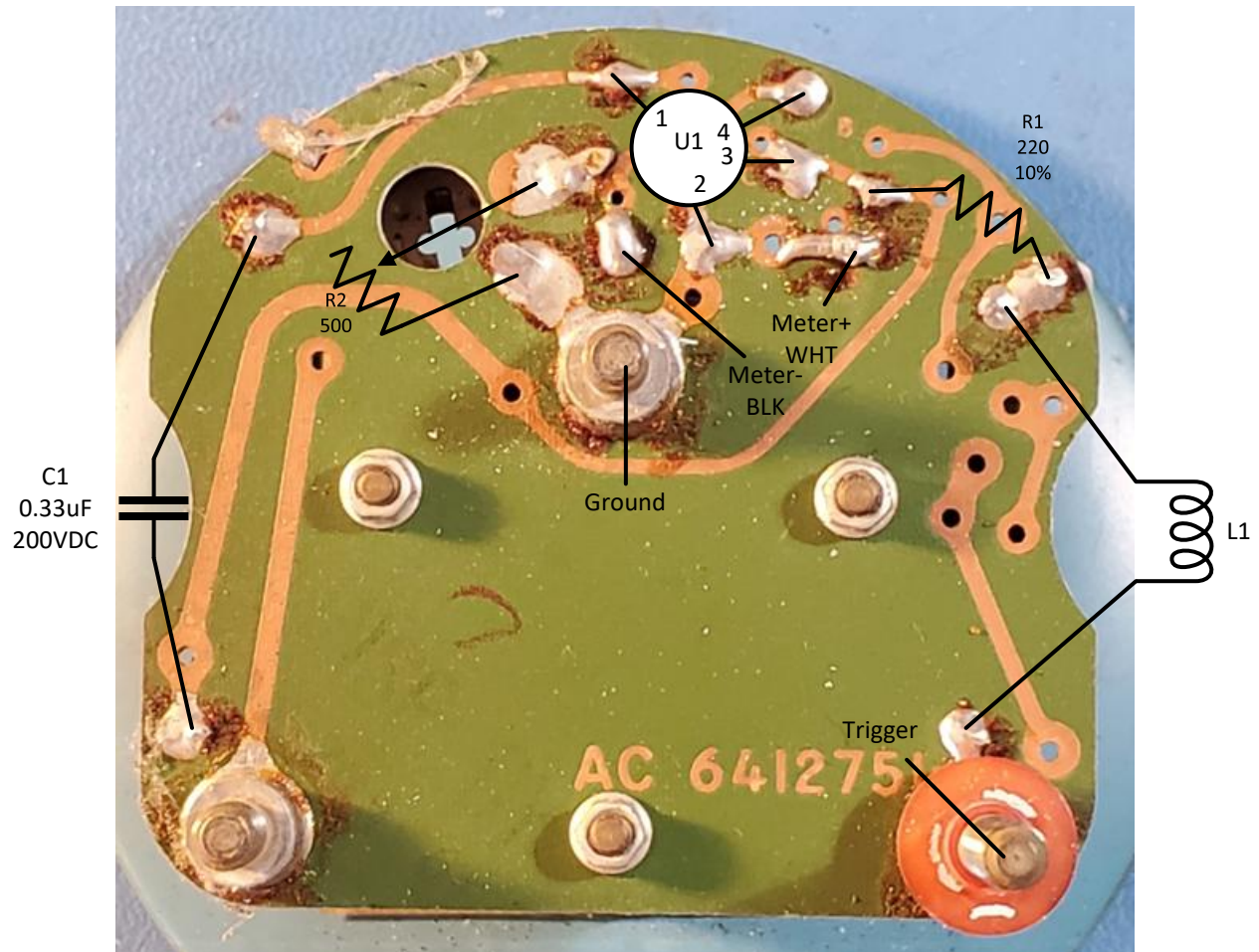


66-67 Pontiac-GTO-Lemans  
Tachometer Reverse Engineering  
© AccuTach Co. 2026  
V1.0

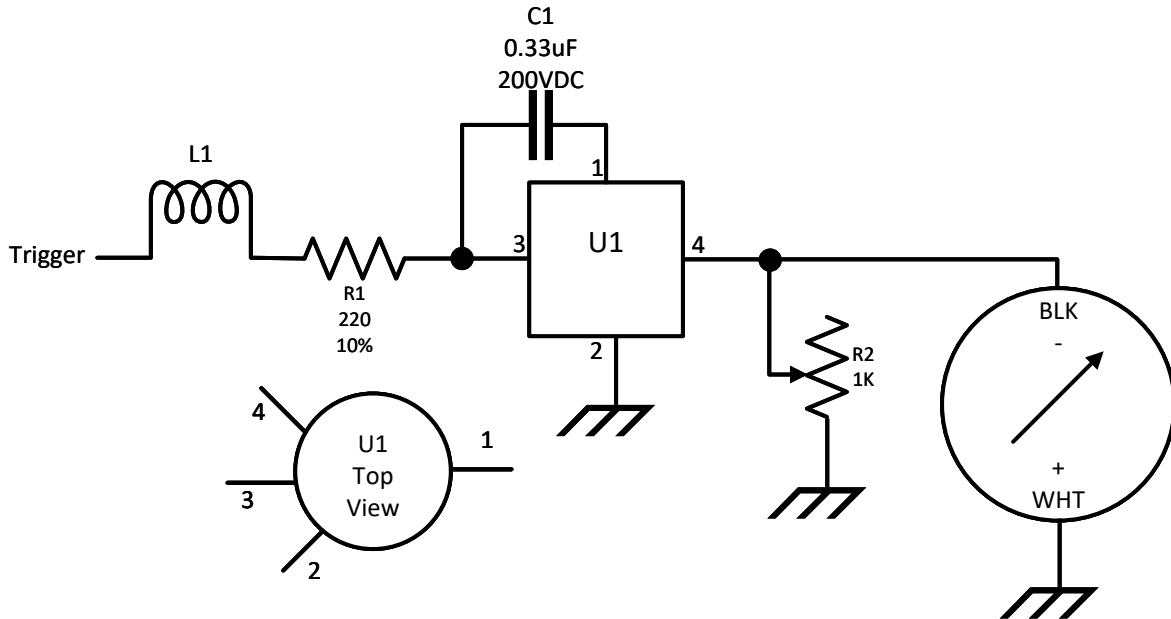
I received a tachometer out of a '66-'67 Pontiac GTO/Lemans to try to repair.



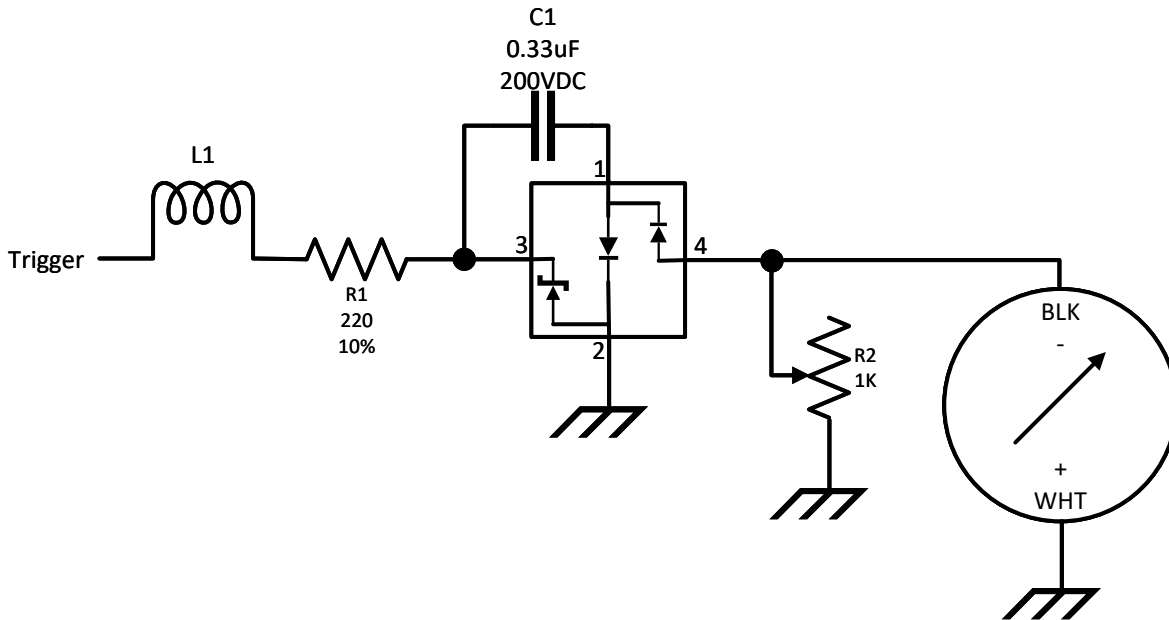
I removed the back to expose the circuit board.



This is the circuit drawn from the reverse engineering . The component mark "U1" is a 4 terminal plastic component marked with what looks like "3970" and "1-66" where the latter seems to be a date code.



This circuit resembles very closely the circuit found on the Dixco Model 47 tachometer. This led me to suspect that U1 is a hybrid package with a Zener diode and two diodes in it. If that is the case, then the circuit would look like this:



I applied 12V at the input side of R1 and measured the voltage at the output. It measured 9V, and did not vary with varying input voltage. That confirms that there is a Zener diode between pins 3 and 2. I tested the diodes and they both had a forward voltage drop of 0.56V implying that they are silicon diodes. One diode showed open when reverse biased, but the other showed about 0.9V, so it could be bad. If any of the diodes fail, it is likely that replacing them with discrete diodes will probably repair the tachometer.

I tested L1 and it was an open circuit. Based on my Dixco experience, an inductor of about 120mH should be a good replacement. C1 tested about 0.35uF. The meter tested open which was fatal for this tachometer. It can't be repaired.