



# Model 2156 and 2166 circuit board 90081 Rev-C

(mid 1999 & later) Ref; Schematic 910081 Rev-C

**TP2** see page 2 for pictures of waveform

## Application Note A77

See **Application Note A46** for complete info on this board.

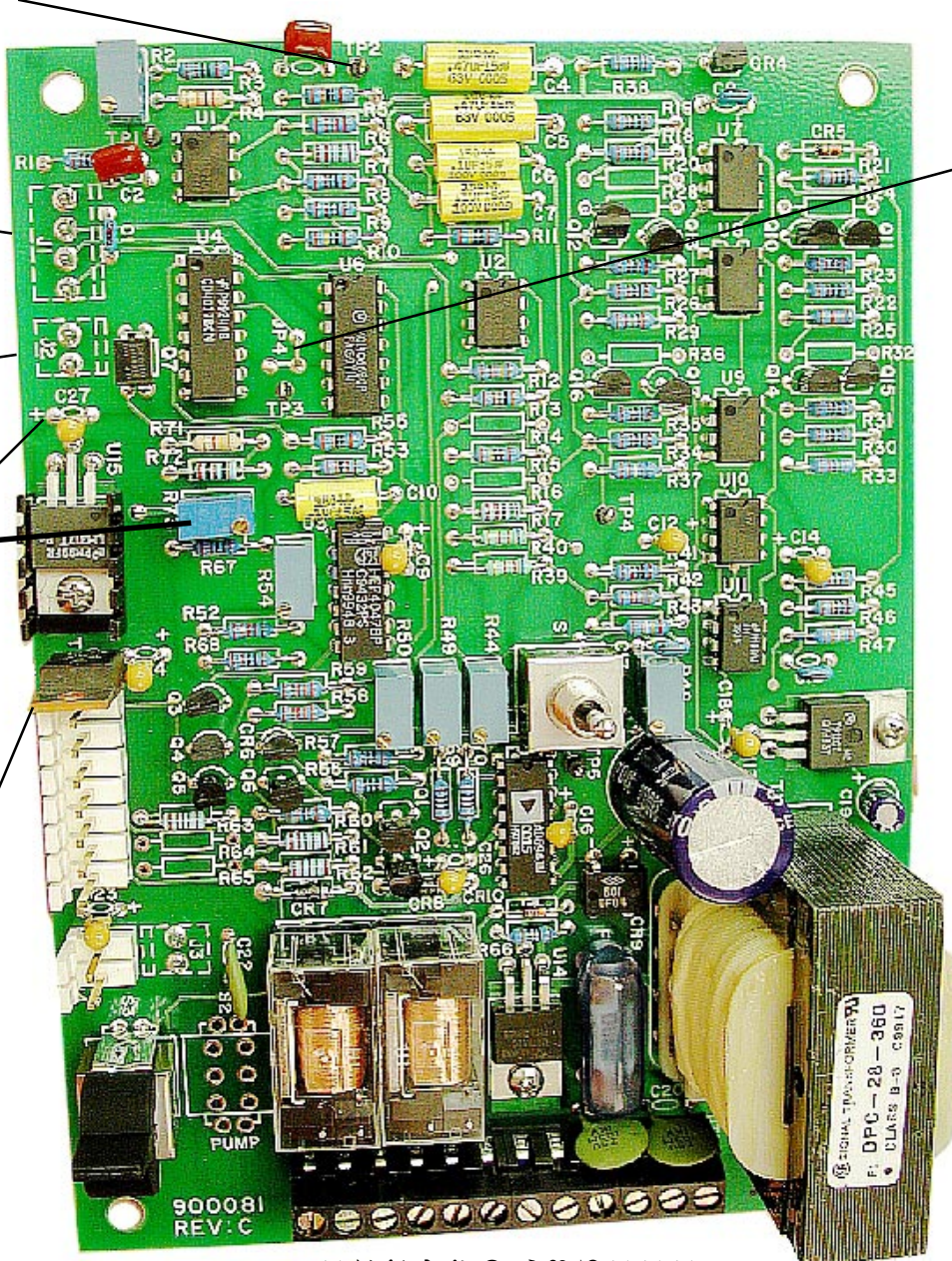
**J1** under to **Detector** in gas cell

**J2** under to **IR Source** in gas cell

**R73** Source voltage adj **3.0** volts  
On rev-B boards this was adjusted to 4.85 v because it also had to supply power to the LED display.

**U16** 7805 was added to provide a separate +5V to the LED display.

Jumper **JP4** selected at test to eliminate **TP2** Overshoot. See waveforms on page 2.



1. Low Alarm N.O. (relay contact)
2. Low Alarm N.C. (relay contact)
3. Low Alarm Common(relay contact)
4. High Alarm N.O. (relay contact)
5. High Alarm N.C. (relay contact)
6. High Alarm Common(relay contact)
7. 4-20 mA current loop out
8. Signal common
9. 0 to 5 volt signal out
10. Earth Ground
11. AC power neutral
12. AC power High

Test Point **TP2** waveform showing **Overshoot** problem if jumper **JP4** is not in the correct position to cure it.

