REASON FOR MODIFICATION:

Removes a 20% deadband from the negative Vbb supply control voltage response. This modification provides additional bias to Q8 base when the demanded negative potential is close to GND. Under these conditions, there is insufficient drive to the base of Q8 to supply a ‘positive’ potential to U47A which is starved of its supply potential.

NEW DRAWINGS AFFECTED:

TRNT-EL-04-2001 A3
TRNT-EL-04-4001 A4

DESCRIPTION OF MODIFICATION:

1. Add a 51.1K Ohm 1% resistor in series with a 1N4148 diode between Vcb+ and Q8 base.
2. Close access to VCB+ can be found at the cathode of D32. Wire the 1N4148 Anode to this node. Use white wire to make connections.
3. Access to Q8 base can be found at the common node between R158 and C139. Wire the resistor to this node and connect to the cathode of the 1N4148 diode.