NOAO

ENGINEERING CHANGE ORDER

BOARD NAME	TORRENT Power Supply Board			ECO#	**TRNT-022**	DATE	6/15/2011
BRD SERL#	005-016	REV	A	ART#	TRNT-EL-04-0001-###		
PN#		REV				REV	
ASBLY#	TRNT-EL-04-0001	REV	A	PCB#	TRNT-EL-04-1001	REV	A
BOM#	TRNT-EL-04-4001	REV	A	SCH#	TRNT-EL-04-2001	REV	A
COGNIZANT ENGNR	Peter Moore			CHARGE#			

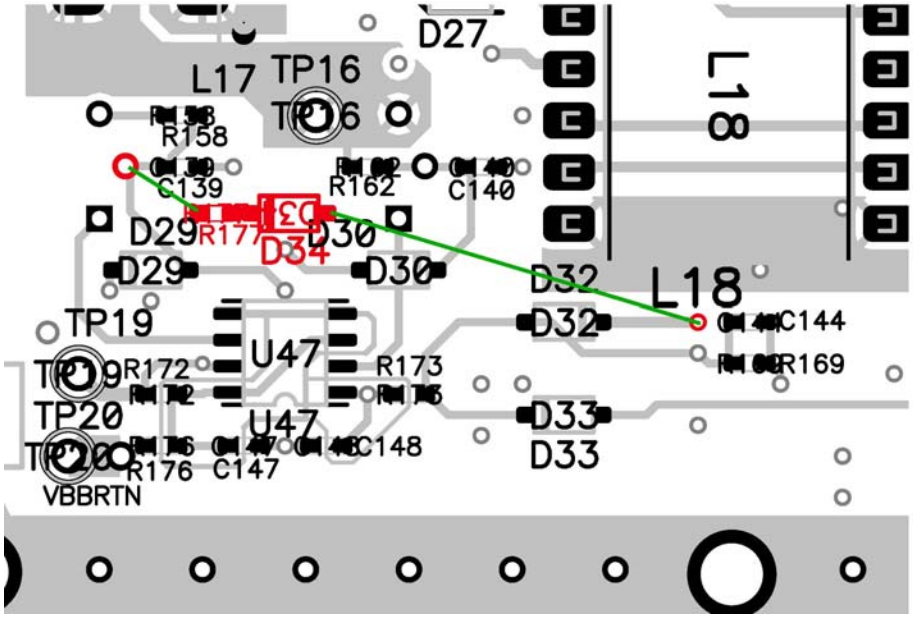
REASON FOR MODIFICATION:

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.

DRAWINGS AFFECTED:	NEW REV
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.



Bottom Side of Board