

# NOAO

## ENGINEERING CHANGE ORDER

BOARD NAME <u>TORRENT Power Supply Board</u>	ECO# <b>TRNT-026</b>	DATE <u>10/28/11</u>
BRD SERL# <u>005-016, 017&gt; = Rev B</u> REV <u>A</u>	ART# <u>TRNT-EL-04-0007-###</u>	
PN# _____    REV _____	_____    REV _____	_____    REV _____
ASBLY# <u>TRNT-EL-04-0001</u> REV <u>A</u>	PCB# <u>TRNT-EL-04-1001</u> REV <u>A</u>	
BOM# <u>TRNT-EL-04-4001</u> REV <u>A</u>	SCH# <u>TRNT-EL-04-2001</u> REV <u>A</u>	
COGNIZANT ENGR <u>Peter Moore</u>	CHARGE# _____	

**REASON FOR MODIFICATION:**

Incorporates ECO's 014, 018, 022 into layout, fixes capacitor voltage derating issue. Address an assembly issue with the through hole components.

DRAWINGS AFFECTED:	NEW REV
TRNT-EL-04-1001	B
TRNT-EL-04-2001	B
TRNT-EL-04-3001	B
TRNT-EL-04-4001	B

**DESCRIPTION OF MODIFICATION:**

1. Combine ECOs 014, 018 & 022 in the pcb layout where applicable.
2. Move Q7 and Q8 to side of board with the majority of through hole components, opposite side of J1.
3. Remove C29, C114 to reduce number of expensive caps, Change C30, C41, C51, C113 to a 22uF 63V cap PN: 597D226X9063F2T
4. Change C42 & C50 to 10uF 63V Caps, PN:293D106X9063E2TE3
5. Change C110 to 150uF 20V (min) PN: 597D157X9025F2T
6. Remove C80 from VP12, attach to VIN\_P as decoupling for U42.
7. C83 must be a 35V capacitor, verify installed part