NOTE: Backline 600 uses the same power amp as the 400RB-IV.
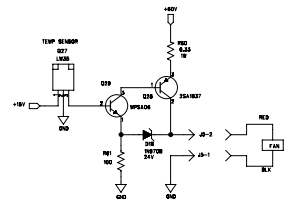
gallien technology

Customer Name:	**Gallien-Krueger**		Current Rev #:	A3	New ECO Rev #:	A4
Model:	400RB-IV		Distribute To:		Page: 1	Of: 1
Assembly Description:	Power Amp		Originator:	Enrique Hernandez		
Assembly Numbers:	206-0240-A		Approved by:			
	145-0240-A		Effective Date:	8/10/2005		

Effective

X	All in Process	X	Next Buy
	All in Service	X	Next Production Run
	All in Stock		

Beginning Serial Number:

Document Update

	Document Update	Date	Initials
	Artwork		
	Assembly Dwg.		
X	Board Artwork		RAG
X	BOM		Noli
	Control Form		
X	Costing		TC
	Fab Drawing		
	Inspection Proc.		
X	Part Master File		Noli
X	Schematic		Noli
	Service Manual		
	Test Procedure		

Reason For Change

1. Q7(2SC3381) on power amp is obsolete, replace with two 2SC2240BL.

2. Remove R5, change values of R14 to 43.2K and C6 to 1uF, 50V. This is to decrease offset DC voltage from 45mVdc to 10mVdc.

Other Affected Assemblies

290 Assemblies , 302 Assembly (Head)
303 Assemblies (Combo)

	Continued on ECO Supplement Page

Description Of Change

Description Of Change		Distribution	Date	Initials
Update Schematic		Accounting		
		Assembly		
Update PCB board part number to 145-0240-A4	X	Engineering		
	X	Incoming Q.C.		
Update Part Master File.	X	Production Eng.		
	X	Purchasing		
Update BOM		Q.A.		
		Service		
		Test		

	Continued on Supplement Page		Drawing(s) attached

Part Number	Description	Parts Added		Parts Deleted	
		Qty	Ref. Designator	Qty	Ref. Designator
010-0000-0	2SC3381BL			1	Q7
010-0010-0	2SC2240BL	2	Q7, Q7A		
060-1213-0	12.1k RES, 1/8W			2	R5, R14
060-4323-0	43.2k RES, 1/8W	1	R14		
031-2106-0	CAP 10uF, 50V			1	C6
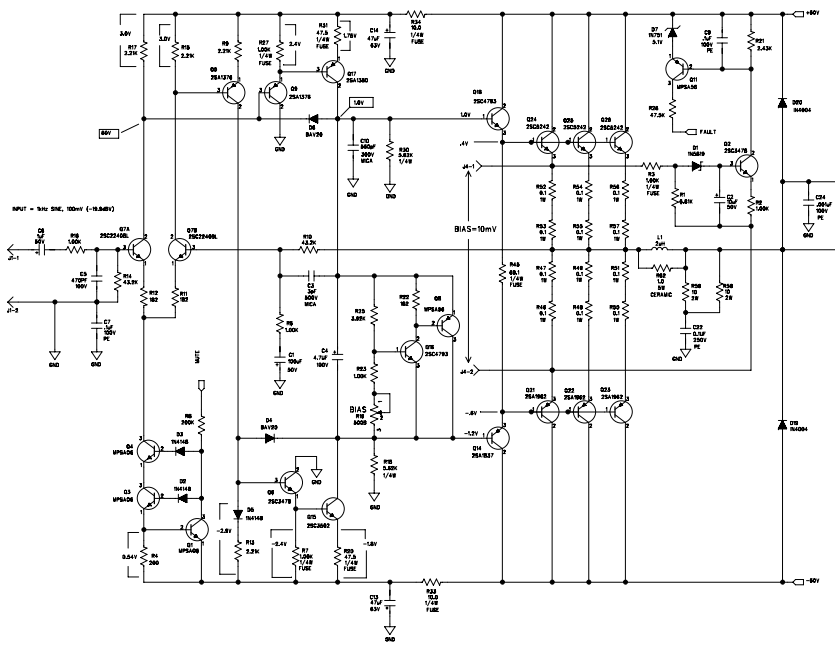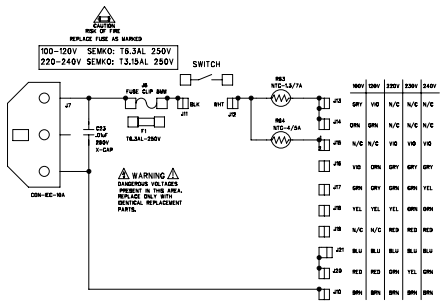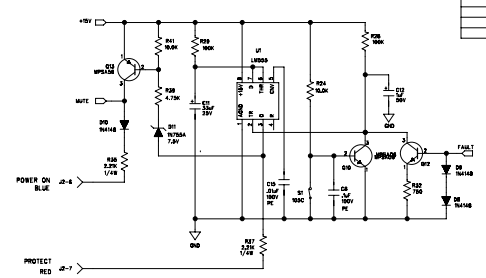
NOTES: UNLESS OTHERWISE SPECIFIED,

1. TEST CONDITIONS: 100mV 1kHz SINE,
   DIRECT INPUT (PRE-AMP BYPASSED)
   NO LOAD

2. ☐ DENOTES RMS AC VOLTAGE

BIAS ADJUSTMENT PROCEDURE:
WITH POWER OFF, ADJUST POT R19 TO FULL COUNTER-CLOCKWISE POSITION.
TURN ON POWER AND WAIT 5 SECONDS FOR TURN ON DELAY.
TURN R21 CLOCKWISE UNTIL VOLTAGE ACCROSS J4 READS 10 mVDC.

NOT VALID UNLESS STAMP IS RED

gallien technology

2234 INDUSTRIAL DRIVE
STOCKTON CA. 95205
VOICE: 209-234-7300
FAX: 209-234-8420

NOTES REV A3:
1. REPLACE Q7 W/2SC3381 WITH TWO
   2SC2840BL (Q7A AND Q7B)
2. REMOVED R5.
3. CHANGE VALUE OF R14 FROM 12.1K TO 43.9K
4. CHANGE VALUE OF C6 FROM 10uF TO 1uF.

	APPROVALS		TITLE:	
	INT	DATE	400RB-IV POWER AMP	
DESIGNER:	R.A.G.	11/9/99	DRAWING NO. 406-0240-A4	REV.
DRAWN:	R.A.G.	8/10/05		A4
ELEC:			PART NO. 206-0240-A4	
MECH:			COMPANY: GALLIEN KRUEGER	
Q/A:				
RELEASED:			FILENAME: 6240A3.sch	

B

REVISION RECORD

LTR	ECO No.	APPROVED:	DATE: