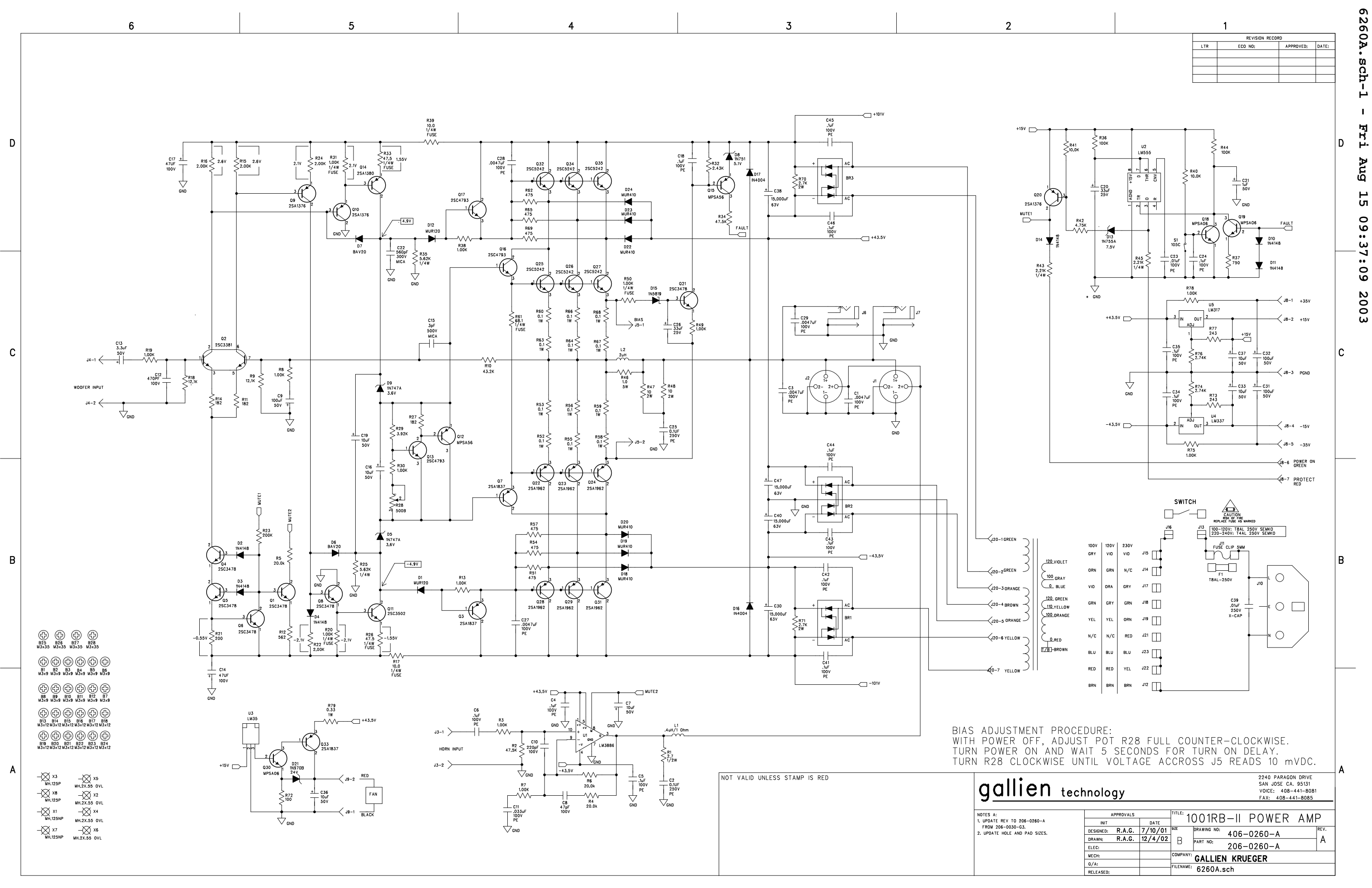


REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



D

C

B

A

D

C

B

A

- ⊕ B25 M3x3.5
- ⊕ B26 M3x3.5
- ⊕ B27 M3x3.5
- ⊕ B28 M3x3.5
- ⊕ B1 M3x9
- ⊕ B2 M3x9
- ⊕ B3 M3x9
- ⊕ B4 M3x9
- ⊕ B5 M3x9
- ⊕ B6 M3x9
- ⊕ B7 M3x9
- ⊕ B8 M3x9
- ⊕ B9 M3x9
- ⊕ B10 M3x9
- ⊕ B11 M3x9
- ⊕ B12 M3x9
- ⊕ B13 M3x12
- ⊕ B14 M3x12
- ⊕ B15 M3x12
- ⊕ B16 M3x12
- ⊕ B17 M3x12
- ⊕ B18 M3x12
- ⊕ B19 M3x12
- ⊕ B20 M3x12
- ⊕ B21 M3x12
- ⊕ B22 M3x12
- ⊕ B23 M3x12
- ⊕ B24 M3x12
- ⊗ X3 MH.2X.55 OVL
- ⊗ X4 MH.2X.55 OVL
- ⊗ X5 MH.2X.55 OVL
- ⊗ X6 MH.2X.55 OVL
- ⊗ X7 MH.125NP
- ⊗ X8 MH.125NP
- ⊗ X9 MH.125NP
- ⊗ X10 MH.125NP
- ⊗ X11 MH.125NP
- ⊗ X12 MH.125NP

BIAS ADJUSTMENT PROCEDURE:
 WITH POWER OFF, ADJUST POT R28 FULL COUNTER-CLOCKWISE.
 TURN POWER ON AND WAIT 5 SECONDS FOR TURN ON DELAY.
 TURN R28 CLOCKWISE UNTIL VOLTAGE ACROSS J5 READS 10 mVDC.

gallien technology

2240 PARAGON DRIVE
 SAN JOSE CA. 95131
 VOICE: 408-441-8081
 FAX: 408-441-8085

TITLE: 1001RB-II POWER AMP

DESIGNED: R.A.G. 7/10/01
 DRAWN: R.A.G. 12/4/02

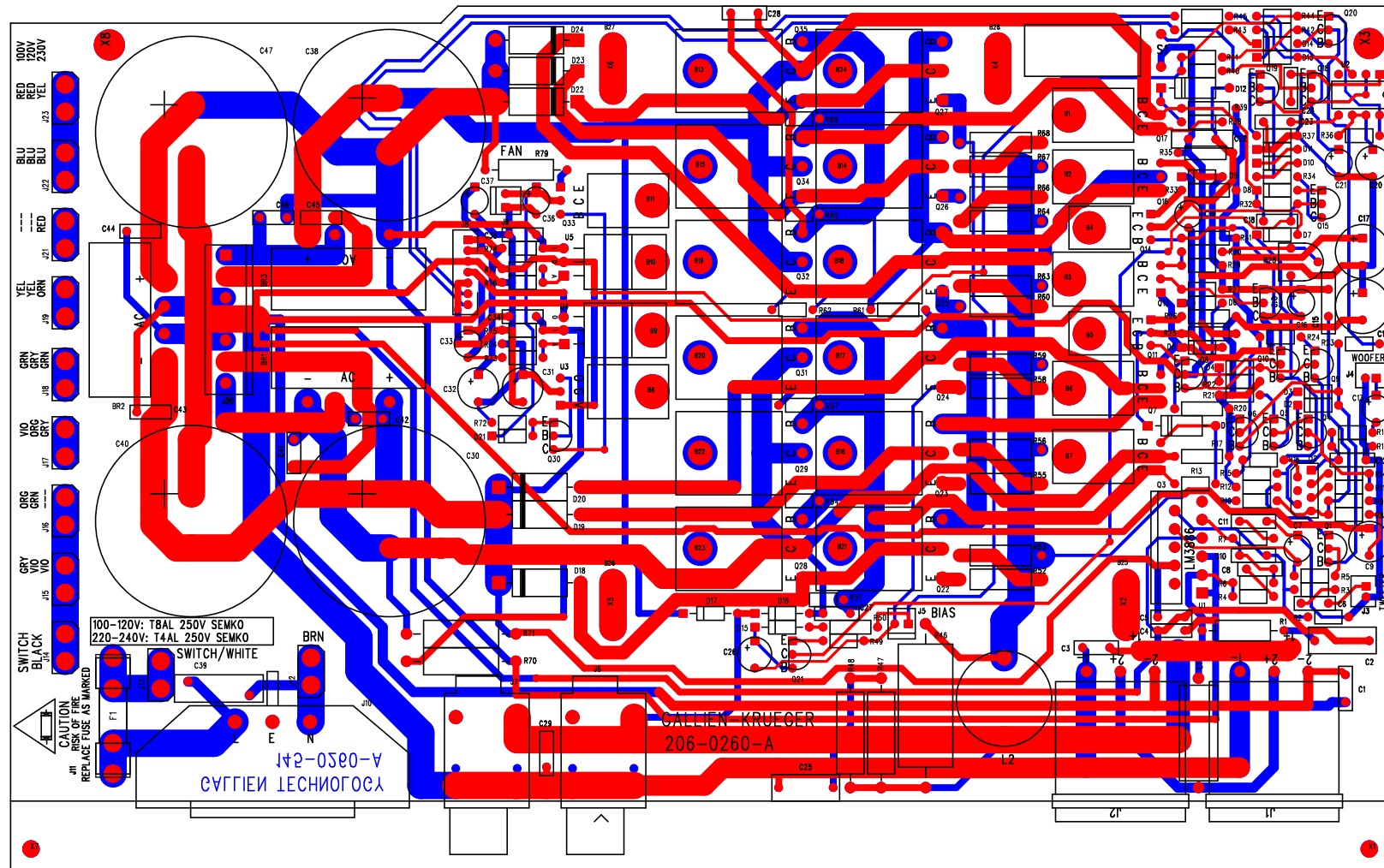
COMPANY: GALLIEN KRUEGER

FILENAME: 6260A.sch

NOT VALID UNLESS STAMP IS RED

1001RB-II Power Amp 206-0260-A

Part No.	Reference	Description	Manufacturer	Mfr. Part No.
001-2060-0	U2	LM555, TIMER	NATIONAL	LM555CN
001-3886-0	U1	LM3886 ,68W AUDIO POWER AMP	NATIONAL	LM3886T
010-0000-0	Q2	2SC3381BL,NPNX2,80V,100MA,2-10M1B	TOSHIBA	2SC3281BL
010-0001-0	Q1 Q4-6 Q8 Q21	2SC3478, NPN,180V,100MA,TO-92	NEC	2SC3478-K
010-0003-0	Q11	2SC3502-F,NPN,200V,100MA,TO-126	TOSHIBA	2SC3502
010-0012-0	Q18-19 Q30	MPSAO6, NPN,80V,500MA,TO-92	MOTOROLA	MPS-A06
010-0035-0	U3	LM35DT, TEMPERATURE SENSOR, TO-220	NATIONAL	LM35DT
010-1002-0	Q9-10 Q20	2SA1376, PNP,180V,100MA,TO-92	NEC	2SA1376-K
010-1003-0	Q14	2SA1380-F,PNP,200V,100MA,TO-126	SANYO/TOSHIBA	2SA1380-F/E
010-1013-0	Q12 Q15	MPSA56 PNP 80V 500MA TO-92	MOTOROLA	MPS-A56
012-0002-0	Q13 Q16-17	2SC4793,NPN,200V,1.5A,2-10R1A	TOSHIBA	2SC4793
012-0003-0	Q25-27 Q32 Q34-35	2SC5242,NPN,230V,15A,2-16C1A	TOSHIBA	2SC5242-O
012-1002-0	Q3 Q7 Q33	2SA1837,PNP,200V,1.5A,2-10R1A	TOSHIBA	2SA1837
012-1003-0	Q22-24 Q28-29 Q31	2SA1962,PNP,230V,15A,2-16C1A	TOSHIBA	2SA1962
014-0070-0	U5	LM317	NATIONAL	LM317
014-1072-0	U4	LM337	NATIONAL	LM337
020-0004-0	D13	1N755A, ZENER,7.5V,500MW ,D035	TAITRON	1N755A
020-0036-0	D5 D9	1N747A, ZENER, 3.6V, 5%, 400MW, DO-35	TAITRON	1N747A
020-0050-0	D8	1N751, ZENER,5.1V,10%,400MW,DO-35	NATIONAL	1N751
020-0240-0	D21	1N970B, ZENER, 24V, 5%, 500MW, DO-35	TAITRON	1N970B
020-1000-0	D2-4 D10-11 D14	1N4148, RECT-FAST, 200MA, 100V	MOTOROLA	1N4148
020-1022-0	D6-7	BAV20, RECT, 200V, DO-35	NATIONAL	BAV20
020-1104-0	D15	SHOTTKY, 1A, 40V, 10NS, DO-41	MOTOROLA	1N5819
020-1120-0	D1 D12	MUR120,RECT-FAST, 1A, 200V, 25NS, 59-04	MOTOROLA	MUR120
020-1122-0	D18-20 D22-24	MUR410, RECT-FAST, 4A, 100V	MOTOROLA	MUR410
020-2106-0	D16-17	1N4004,RECT,1A,400V,DO-41	TAITRON	1N4004
023-0112-0	BR1-3	BRIDGE, 25A, 200V, VERT, PC, MO25S-02	CHENG-YI	MP25-Q2S
031-1336-0	C20 C26	CAP,ELEC,RAD,336,20%,25V	UNITED CHEMI-CON	SRG25VB33RM5X7LL
031-2105-0	C21	CAP,ELEC,RAD, 105, 20%, 50V	UNITED CHEMI-CON	C440C105M5U5CA
031-2106-0	C7 C16 C19 C33 C36-37	CAP,ELEC,RAD, 106, 20%, 50V	UNITED CHEMI-CON	SMG50VB10RM5X11LL
031-2107-0	C9 C31-32	CAP,ELEC,RAD,107, 20%, 50V	UNITED CHEMI-CON	SMG50VB101M8X11LL
031-2335-0	C13	CAP,ELEC,RAD,335,20%,50V	UNITED CHEMI-CON	SMG50VB3R3M5X11LL
031-3159-0	C30,38,40,47	CAP, ELEC, RAD, 159, 20%, 63V	UNITED CHEMI-CON	SMH63VN153M35X63T2
031-4476-0	C14 C17	CAP,ELEC,RAD,476,-10%+50%,100V	UNITED CHEMI-CON	SMG100VB47RM10X12LL
032-4103-0	C23	CAP,PE,103,5%,100V,	PANASONIC	ECQV1103JM
032-4104-0	C4,6,18,24,34,35,41-46	CAP,PE,104,5%,100V,	PANASONIC	ECQV1104JM
032-4333-0	C11	CAP,PE,333,5%,100V,	PANASONIC	ECQV1333JM
032-4472-0	C1 C3 C27-29	CAP,PE,472,5%,100V,	PANASONIC	ECQB1472JF
032-7104-0	C2 C25	CAP,PE,104,10%, 250V	ILLINOIS CAPACITOR	104MSR250K
034-4221-0	C10	CAP,MCR,220pF,5%,100V,	TAITRON	TMRS221J100NPOB
034-4470-0	C8	CAP,MCR,47PF,5%,100V,NPO	TAITRON	TMRS470J100NPOB
034-4471-0	C12	CAP,MCR,470pF,5%,100V,	TAITRON	TMRS471J100NPOB
034-7103-0	C39	CAP, CERMIC DISK, 103, 10%, X-250V	PANASONIC	ECK-DRS103ZV
035-8030-0	C15	CAP MICA AXIAL , 3pF, 10%, 500V	CORNELL	CD10CD030D03
035-8561-0	C22	CAP MICA RADIAL, 561, 5%, 300V	CORNELL	CD15FC561J103
052-2212-0	R43 R45	RES,METAL FILM,2.21k,1/4W,1%	ECI	M2F1AK002.21
052-5622-0	R25 R35	RES,METAL FILM,5.62K,1/4W,1%	ECI	M5F1AK005.62
053-0270-0	R1	RES ,CARBON FILM,2.7 ,1/2W,5%	ECI	R5J3AJ002.70
054- .100-0	R52,53,55,56,58-60,63 R64,66-68	RES, METAL OXIDE, 0.1 Ohm, 1W, 5%	ECI	MO10J3AJ000.10
054- .330-0	R79	RES, METAL OXIDE, 0.33 OHM, 1W, 5%	ECI	MO10J3AJ000.33
055-0101-0	R47-48	RES, METAL OXIDE, 10 OHM, 2W, 5%	ECI	MOM20J3AJ010.00
055-2702-0	R70-71	RES, METAL OXIDE, 2.7K OHM, 2W, 5%	ECI	MOM20J3AK002.70
056-0100-0	R46	RES, CERAMIC WW, 1.0 OHM, 5W, 10%	ECI	WWC50J3AJ001.00
059-1000-0	R17 R39	RES,MF,FUSE,10.0 OHM, 1/4W,1%	JUKN.OHM	FR25-10.0
059-1002-0	R20 R31 R50	RES,MF,FUSE,1.00K,1/4W,1%	JUKN.OHM	FR25-1.00K
059-4750-0	R26 R33	RES,MF,FUSE,47.5 OHM, 1/4W,1%	JUKN.OHM	FR25-47.5
059-6810-0	R61	RES,MF,FUSE,68.1 OHM, 1/4W,1%	JUKN.OHM	FR25-68.1
060-1001-0	R72	RES, METAL FILM, 100 OHM, 1/8W, 1%	ECI	M1F1AJ100.00
060-1002-0	R3,7,8,13,19,30,38,49 R75 R78	RES,METAL FILM, 1.00K, 1/8W, 1%	ECI	M1F1AK001.00
060-1003-0	R40-41	RES,METAL FILM, 10.0K, 1/8W,1%	ECI	M1F1AK010.00
060-1004-0	R36 R44	RES,METAL FILM, 100K, 1/8W, 1%	ECI	M1F1AK100.00
060-1213-0	R9 R18	RES,METAL FILM, 12.1K OHM, 1/8W, 1%	ECI	M1F1AK012.10



PCB WORK INSTRUCTIONS

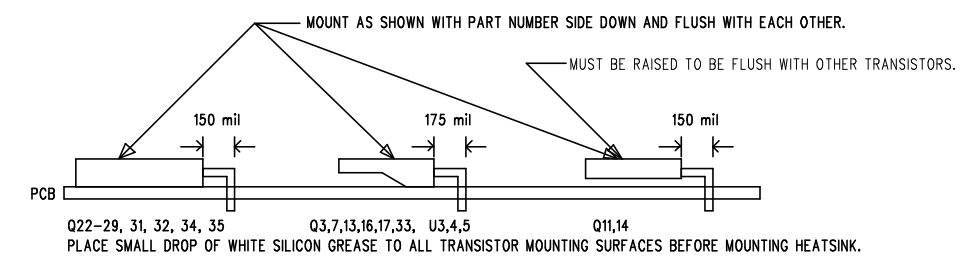
DWG 420-0260-A

NOTES:

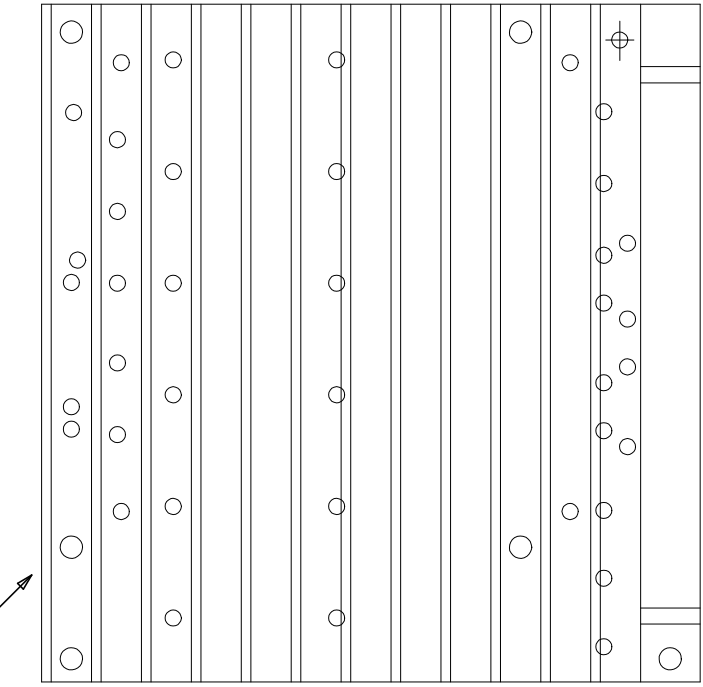
- UNLESS OTHERWISE SPECIFIED:
1. SQUARE PADS ON THRU HOLE PARTS (ie: CONNECTORS, DIPS, SIPS, LEDS) DENOTE PIN 1.
 2. ALL BOARDS REQUIRE A COMPLETE AND THOROUGH VISUAL INSPECTION.
 3. ALL BOARDS MUST BE BARE BOARD TESTED.
 4. ASSEMBLE AND SOLDER PER ANSI/IPC-A-610B.

LOADING

5. SEE FORMING AND LOADING INSTRUCTIONS BELOW FOR INSTALLING SPECIFIED COMPONENTS.
6. CHECK THAT R52,53,55,56,58,60,63,64,66,67,68 & S1 ARE FLUSH TO BOARD.
7. CHECK THAT ALL CONNECTORS AND JACKS ARE FLUSH WITH PCB.
8. MAKE CERTAIN ALL POWER TRANSISTOR MOUNTING HOLES ARE PROPERLY ALIGNED FOR HEAT SINK.



HEAT SINK ASSEMBLY

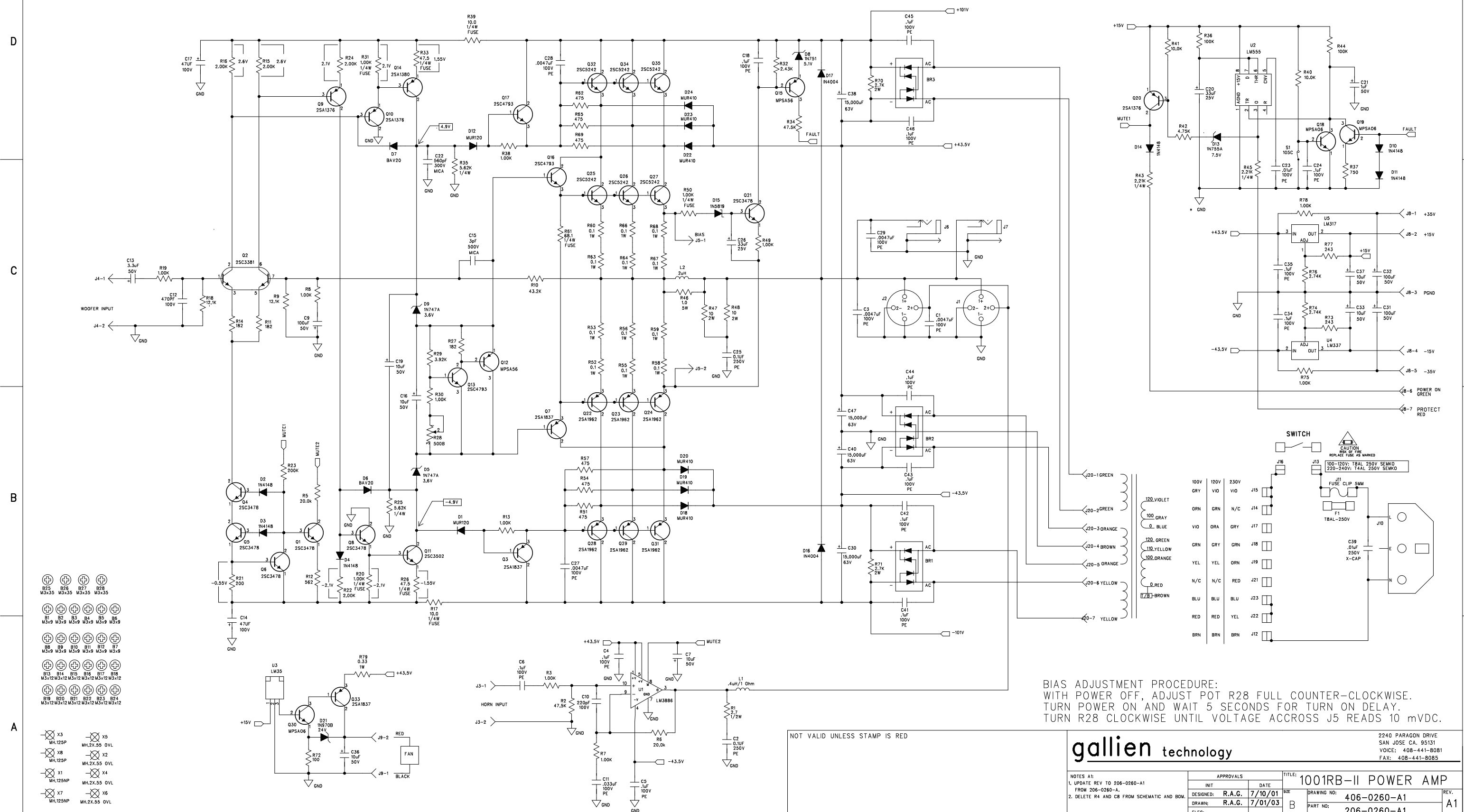


APPLY THERMAL INSULATOR TAPE (105-0014-0), AND ALIGN WITH THIS EDGE.

NOT VALID UNLESS STAMP IS RED		gallien technology		2240 PARAGON DRIVE SAN JOSE CA. 95131 VOICE: 408-441-8081 FAX: 408-441-8085	
APPROVALS		TITLE: 1001RB-II POWER AMP BD			
INIT	DATE	SIZE	DRAWING NO:	REV.	
DESIGNED: R.A.G.	7/16/01	B	405-0260-A	A	
DRAWN: R.A.G.	12/04/02	PART NO: 145-0260-A			
ELEC:		COMPANY: GALLIEN-KRUEGER			
MECH:		FILENAME: 5260A			
GERBER FILE NAME: sst01260ppbo					
LAYER DESCRIPTION: SILKSCREEN					

Customer Name:		Gallien-Krueger		Current Rev #:	A	New ECO Rev #:	A1
Model:		1001RB-II		Distribute To:		Page:	1 Of: 1
Assembly Description:		1001RB-II power amp board		Originator:	A.R.V.		
Assembly Numbers:		206-0260-A		Approved by:			
				Effective Date:	6/26/2003		
Effective				Document Update		Date	Initials
<input checked="" type="checkbox"/>	All in Process	<input checked="" type="checkbox"/>	Next Buy	<input type="checkbox"/>	Artwork		
<input type="checkbox"/>	All in Service	<input type="checkbox"/>	Next Production Run	<input type="checkbox"/>	Assembly Dwg.		
<input type="checkbox"/>	All in Stock	<input type="checkbox"/>		<input type="checkbox"/>	Board Artwork		
Beginning Serial Number:				<input checked="" type="checkbox"/>	BOM		
Reason For Change				<input type="checkbox"/>	Control Form		
Horn amp oscillates when approaching full power				<input checked="" type="checkbox"/>	Costing		
				<input type="checkbox"/>	Fab Drawing		
				<input type="checkbox"/>	Inspection Proc.		
				<input type="checkbox"/>	Part Master File		
				<input checked="" type="checkbox"/>	Schematic		
				<input type="checkbox"/>	Service Manual		
				<input checked="" type="checkbox"/>	Test Procedure		
				<input type="checkbox"/>			
				<input type="checkbox"/>			
Other Affected Assemblies							
<input type="checkbox"/> Continued on ECO Supplement Page							
Description Of Change				Distribution		Date	Initials
Remove loop compensation R4 (20.0k) and C8 (47pf)				<input type="checkbox"/>	Accounting		
Changes made only to schematic and BOM.				<input type="checkbox"/>	Assembly		
For units in process clip out R4 only.				<input type="checkbox"/>	Customer		
Layout not updated.				<input checked="" type="checkbox"/>	Engineering		
				<input checked="" type="checkbox"/>	Incoming Q.C.		
				<input type="checkbox"/>	Planning		
				<input checked="" type="checkbox"/>	Production Eng.		
				<input checked="" type="checkbox"/>	Purchasing		
				<input type="checkbox"/>	Q.A.		
				<input type="checkbox"/>	Receiving		
				<input type="checkbox"/>	Service		
				<input checked="" type="checkbox"/>	Test		
				<input type="checkbox"/>	Vendor		
				<input type="checkbox"/>			
				<input type="checkbox"/>			
<input type="checkbox"/> Continued on ECO Supplement Page				<input type="checkbox"/>	Drawing(s) attached		
Part Number	Description	Parts Added		Parts Deleted			
		Qty	Ref. Designator	Qty	Ref. Designator		
060-2003-0	20.0k 1/8W 1%			1	R4		
034-4470-0	47pf 100V			1	C8		

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



BIAS ADJUSTMENT PROCEDURE:
 WITH POWER OFF, ADJUST POT R28 FULL COUNTER-CLOCKWISE.
 TURN POWER ON AND WAIT 5 SECONDS FOR TURN ON DELAY.
 TURN R28 CLOCKWISE UNTIL VOLTAGE ACROSS J5 READS 10 mVDC.

- ⊕ B25 M3x3.5
- ⊕ B26 M3x3.5
- ⊕ B27 M3x3.5
- ⊕ B28 M3x3.5
- ⊕ B1 M3x9
- ⊕ B2 M3x9
- ⊕ B3 M3x9
- ⊕ B4 M3x9
- ⊕ B5 M3x9
- ⊕ B6 M3x9
- ⊕ B7 M3x9
- ⊕ B8 M3x9
- ⊕ B9 M3x9
- ⊕ B10 M3x9
- ⊕ B11 M3x9
- ⊕ B12 M3x9
- ⊕ B13 M3x12
- ⊕ B14 M3x12
- ⊕ B15 M3x12
- ⊕ B16 M3x12
- ⊕ B17 M3x12
- ⊕ B18 M3x12
- ⊕ B19 M3x12
- ⊕ B20 M3x12
- ⊕ B21 M3x12
- ⊕ B22 M3x12
- ⊕ B23 M3x12
- ⊕ B24 M3x12
- ⊗ X3 MH.125P
- ⊗ X4 MH.125NP
- ⊗ X5 MH.2X.55 OVL
- ⊗ X6 MH.2X.55 OVL
- ⊗ X7 MH.125NP
- ⊗ X8 MH.125P
- ⊗ X9 MH.2X.55 OVL
- ⊗ X2 MH.2X.55 OVL

NOT VALID UNLESS STAMP IS RED

gallien technology

2240 PARAGON DRIVE
 SAN JOSE CA. 95131
 VOICE: 408-441-8081
 FAX: 408-441-8085

TITLE: 1001RB-II POWER AMP

DESIGNED: R.A.G. 7/10/01
 DRAWN: R.A.G. 7/01/03

COMPANY: GALLIEN KRUEGER

FILENAME: 6260A1.sch

REV. A1

GALLIEN-KRUEGER

1001RB-II Power Amp 206-0260-A1

Part No.	Reference	Description	Manufacturer	Mfr. Part No.
001-2060-0	U2	LM555, TIMER	NATIONAL	LM555CN
001-3886-0	U1	LM3886 ,68W AUDIO POWER AMP	NATIONAL	LM3886T
010-0000-0	Q2	2SC3381BL,NPNX2,80V,100MA,2-10M1B	TOSHIBA	2SC3281BL
010-0001-0	Q1 Q4-6 Q8 Q21	2SC3478, NPN,180V,100MA,TO-92	NEC	2SC3478-K
010-0003-0	Q11	2SC3502-F,NPN,200V,100MA,TO-126	TOSHIBA	2SC3502
010-0012-0	Q18-19 Q30	MPSA06, NPN,80V,500MA,TO-92	MOTOROLA	MPS-A06
010-0035-0	U3	LM35DT, TEMPERATURE SENSOR, TO-220	NATIONAL	LM35DT
010-1002-0	Q9-10 Q20	2SA1376, PNP,180V,100MA,TO-92	NEC	2SA1376-K
010-1003-0	Q14	2SA1380-F,PNP,200V,100MA,TO-126	SANYO/TOSHIBA	2SA1380-F/E
010-1013-0	Q12 Q15	MPSA56 PNP 80V 500MA TO-92	MOTOROLA	MPS-A56
012-0002-0	Q13 Q16-17	2SC4793,NPN,200V,1.5A,2-10R1A	TOSHIBA	2SC4793
012-0003-0	Q25-27 Q32 Q34-35	2SC5242,NPN,230V,15A,2-16C1A	TOSHIBA	2SC5242-O
012-1002-0	Q3 Q7 Q33	2SA1837,PNP,200V,1.5A,2-10R1A	TOSHIBA	2SA1837
012-1003-0	Q22-24 Q28-29 Q31	2SA1962,PNP,230V,15A,2-16C1A	TOSHIBA	2SA1962
014-0070-0	U5	LM317	NATIONAL	LM317
014-1072-0	U4	LM337	NATIONAL	LM337
020-0004-0	D13	1N755A, ZENER,7.5V,500MW ,D035	TAITRON	1N755A
020-0036-0	D5 D9	1N747A, ZENER, 3.6V, 5%, 400MW, DO-35	TAITRON	1N747A
020-0050-0	D8	1N751, ZENER,5.1V,10%,400MW,DO-35	NATIONAL	1N751
020-0240-0	D21	1N970B, ZENER, 24V, 5%, 500MW, DO-35	TAITRON	1N970B
020-1000-0	D2-4 D10-11 D14	1N4148, RECT-FAST, 200MA, 100V	MOTOROLA	1N4148
020-1022-0	D6-7	BAV20, RECT, 200V, DO-35	NATIONAL	BAV20
020-1104-0	D15	SHOTTKY, 1A, 40V, 10NS, DO-41	MOTOROLA	1N5819
020-1120-0	D1 D12	MUR120,RECT-FAST, 1A, 200V, 25NS, 59-04	MOTOROLA	MUR120
020-1122-0	D18-20 D22-24	MUR410, RECT-FAST, 4A, 100V	MOTOROLA	MUR410
020-2106-0	D16-17	1N4004,RECT,1A,400V,DO-41	TAITRON	1N4004
023-0112-0	BR1-3	BRIDGE, 25A, 200V, VERT, PC, MO25S-02	CHENG-YI	MP25-02S
031-1336-0	C20 C26	CAP,ELEC,RAD,336,20%,25V	UNITED CHEMI-CON	SRG25VB33RM5X7LL
031-2105-0	C21	CAP,ELEC,RAD, 105, 20%, 50V	UNITED CHEMI-CON	C440C105M5U5CA
031-2106-0	C7 C33 C36-37	CAP,ELEC,RAD, 106, 20%, 50V	UNITED CHEMI-CON	SMG50VB10RM5X11LL
031-2107-0	C9 C31-32	CAP,ELEC,RAD,107, 20%, 50V	UNITED CHEMI-CON	SMG50VB101M8X11LL
031-2335-0	C13	CAP,ELEC,RAD,335,20%,50V	UNITED CHEMI-CON	SMG50VB3R3M5X11LL
031-3159-0	C30,38,40,47	CAP, ELEC, RAD, 159, 20%, 63V	UNITED CHEMI-CON	SMH63VN153M35X63T2
031-4475-0	C16,19	CAP,ELEC,RAD,475,-10%+50%,100V	UNITED CHEMI-CON	SMG100VB4R7M5X11LL
031-4476-0	C14 C17	CAP,ELEC,RAD,476,-10%+50%,100V	UNITED CHEMI-CON	SMG100VB47RM10X12LL
032-4103-0	C23	CAP,PE,103,5%,100V,	PANASONIC	ECQV1103JM
032-4104-0	C4-6,18,24,34,35,41-46	CAP,PE,104,5%,100V,	PANASONIC	ECQV1104JM
032-4333-0	C11	CAP,PE,333,5%,100V,	PANASONIC	ECQV1333JM
032-4472-0	C1 C3 C27-29	CAP,PE,472,5%,100V,	PANASONIC	ECQB1472JF
032-4474-0	C48	CAP,PE,474,10%, 100V	PANASONIC	ECQV1474JM
032-7104-0	C2 C25	CAP,PE,104,10%, 250V	ILLINOIS CAPACITOR	104MSR250K
034-4221-0	C10	CAP,MCR,220pF,5%,100V,	TAITRON	TMRS221J100NPOB
034-4470-0	C8	CAP,MCR,47PF,5%,100V,NPO	TAITRON	TMRS470J100NPOB
034-4471-0	C12	CAP,MCR,470pF,5%,100V,	TAITRON	TMRS471J100NPOB
034-7103-0	C39	CAP, CERMIC DISK, 103, 10%, X-250V	PANASONIC	ECK-DRS103ZV
035-8030-0	C15	CAP MICA AXIAL , 3pF, 10%, 500V	CORNELL	CD10CD030D03
035-8561-0	C22	CAP MICA RADIAL, 561, 5%, 300V	CORNELL	CD15FC561J103
052-2212-0	R43 R45	RES,METAL FILM,2.21k,1/4W,1%	ECI	M2F1AK002.21
052-5622-0	R25 R35	RES,METAL FILM,5.62K,1/4W,1%	ECI	M5F1AK005.62
053-0270-0	R1	RES ,CARBON FILM,2.7 ,1/2W,5%	ECI	R5J3AJ002.70
054-.100-0	R52,53,55,56,58-60,63 R64,66-68	RES, METAL OXIDE, 0.1 Ohm, 1W, 5%	ECI	MO10J3AJ000.10
054-.330-0	R79	RES, METAL OXIDE, 0.33 OHM, 1W, 5%	ECI	MO10J3AJ000.33
055-0101-0	R47-48	RES, METAL OXIDE, 10 OHM, 2W, 5%	ECI	MOM20J3AJ010.00
055-2702-0	R70-71	RES, METAL OXIDE, 2.7K OHM, 2W, 5%	ECI	MOM20J3AK002.70
056-0100-0	R46	RES, CERAMIC WW, 1.0 OHM, 5W, 10%	ECI	WWC50J3AJ001.00
059-1000-0	R17 R39	RES,MF,FUSE,10.0 OHM, 1/4W,1%	JUKN.OHM	FR25-10.0
059-1002-0	R20 R31 R50	RES,MF,FUSE,1.00K,1/4W,1%	JUKN.OHM	FR25-1.00K
059-4750-0	R26 R33	RES,MF,FUSE,47.5 OHM, 1/4W,1%	JUKN.OHM	FR25-47.5
059-6810-0	R61	RES,MF,FUSE,68.1 OHM, 1/4W,1%	JUKN.OHM	FR25-68.1
060-1001-0	R72	RES, METAL FILM, 100 OHM, 1/8W, 1%	ECI	M1F1AJ100.00
060-1002-0	R3,7,8,13,19,30,38,49 R75 R78	RES,METAL FILM, 1.00K, 1/8W, 1%	ECI	M1F1AK001.00
060-1003-0	R40-41	RES,METAL FILM, 10.0K, 1/8W,1%	ECI	M1F1AK010.00
060-1004-0	R36 R44	RES,METAL FILM, 100K, 1/8W, 1%	ECI	M1F1AK100.00
060-1213-0	R9 R18	RES,METAL FILM, 12.1K OHM, 1/8W, 1%	ECI	M1F1AK012.10

Customer Name:	Gallien-Krueger	Current Rev #:	A1	New ECO Rev #:	A2
Model:	1001RB-II	Distribute To:		Page:	1 Of: 1
Assembly Description:	1001RB-II power amp board	Originator:	R.A.G.		
Assembly Numbers:	206-0260-A	Approved by:			
		Effective Date:	7/8/2003		

Effective		Document Update		Date	Initials
<input type="checkbox"/>	All in Process	<input checked="" type="checkbox"/>	Next Buy		
<input type="checkbox"/>	All in Service	<input type="checkbox"/>	Next Production Run		
<input type="checkbox"/>	All in Stock	<input type="checkbox"/>			
Beginning Serial Number:		<input checked="" type="checkbox"/>	BOM		
Reason For Change		<input type="checkbox"/>	Control Form		
Update for CSA requirements C16,19,F1,C7.		<input type="checkbox"/>	Costing		
Incorporate changes from A1 into layout.		<input type="checkbox"/>	Fab Drawing		
Roll off signal to horn amp at 30kHz with C8.		<input type="checkbox"/>	Inspection Proc.		
Add C48 to improve high freq dist from comutation.		<input checked="" type="checkbox"/>	Part Master File		
Make R75 and R78 fuse resistors.		<input checked="" type="checkbox"/>	Schematic		
		<input type="checkbox"/>	Service Manual		
		<input type="checkbox"/>	Test Procedure		
		<input type="checkbox"/>			
		<input type="checkbox"/>			

Other Affected Assemblies

Continued on ECO Supplement Page

Description Of Change	Distribution	Date	Initials
Change parts and indicated below, and update layout to A2.	<input type="checkbox"/>	Accounting	
	<input type="checkbox"/>	Assembly	
	<input type="checkbox"/>	Customer	
	<input checked="" type="checkbox"/>	Engineering	
	<input checked="" type="checkbox"/>	Incoming Q.C.	
	<input type="checkbox"/>	Planning	
	<input checked="" type="checkbox"/>	Production Eng.	
	<input checked="" type="checkbox"/>	Purchasing	
	<input type="checkbox"/>	Q.A.	
	<input type="checkbox"/>	Receiving	
	<input type="checkbox"/>	Service	
	<input checked="" type="checkbox"/>	Test	
	<input type="checkbox"/>	Vendor	

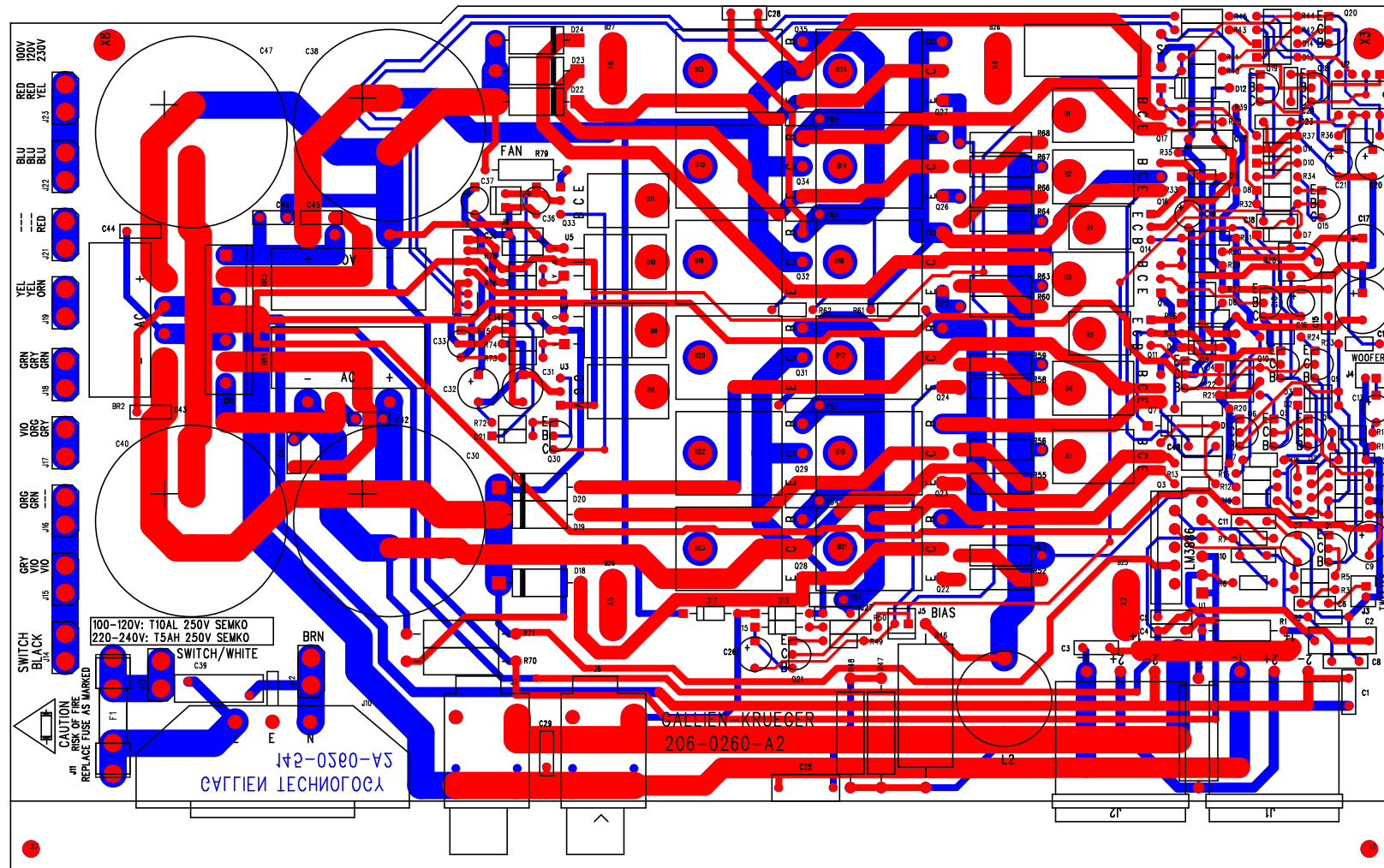
Continued on ECO Supplement Page

Drawing(s) attached

Part Number	Description	Parts Added		Parts Deleted	
		Qty	Ref. Designator	Qty	Ref. Designator
031-4475-0	4.7uF/100V	2	C16,19		
032-4474-0	.47uF/100V	1	C48		
031-2106-a	10uF/50V-NP	1	C7		
032-4472-0	.0047uF/100V	1	C8		
091-0016-0	Fuse T10AL/250V	1	F1		
059-1002-0	1.00K,1/4W fuse	2	R75,78		
031-2106-0	10uF/50V			3	C7,16,19
034-4470-0	47pF/100V			1	C8
060-1002-0	1.00K,1/8W			2	R75,78
060-2003-0	20.0K,1/8W			1	R4
091-0028-0	Fuse T8AL/250V			1	F1

1001RB-II Power Amp 206-0260-A2

Part No.	Reference	Description	Manufacturer	Mfr. Part No.
001-2060-0	U2	LM555, TIMER	NATIONAL	LM555CN
001-3886-0	U1	LM3886 ,68W AUDIO POWER AMP	NATIONAL	LM3886T
010-0000-0	Q2	2SC3381BL,NPNX2,80V,100MA,2-10M1B	TOSHIBA	2SC3281BL
010-0001-0	Q1 Q4-6 Q8 Q21	2SC3478, NPN,180V,100MA,TO-92	NEC	2SC3478-K
010-0003-0	Q11	2SC3502-F,NPN,200V,100MA,TO-126	TOSHIBA	2SC3502
010-0012-0	Q18-19 Q30	MPSA06, NPN,80V,500MA,TO-92	MOTOROLA	MPS-A06
010-0035-0	U3	LM35DT, TEMPERATURE SENSOR, TO-220	NATIONAL	LM35DT
010-1002-0	Q9-10 Q20	2SA1376, PNP,180V,100MA,TO-92	NEC	2SA1376-K
010-1003-0	Q14	2SA1380-F,PNP,200V,100MA,TO-126	SANYO/TOSHIBA	2SA1380-F/E
010-1013-0	Q12 Q15	MPSA56 PNP 80V 500MA TO-92	MOTOROLA	MPS-A56
012-0002-0	Q13 Q16-17	2SC4793,NPN,200V,1.5A,2-10R1A	TOSHIBA	2SC4793
012-0003-0	Q25-27 Q32 Q34-35	2SC5242,NPN,230V,15A,2-16C1A	TOSHIBA	2SC5242-O
012-1002-0	Q3 Q7 Q33	2SA1837,PNP,200V,1.5A,2-10R1A	TOSHIBA	2SA1837
012-1003-0	Q22-24 Q28-29 Q31	2SA1962,PNP,230V,15A,2-16C1A	TOSHIBA	2SA1962
014-0070-0	U5	LM317	NATIONAL	LM317
014-1072-0	U4	LM337	NATIONAL	LM337
020-0004-0	D13	1N755A, ZENER,7.5V,500MW ,D035	TAITRON	1N755A
020-0036-0	D5 D9	1N747A, ZENER, 3.6V, 5%, 400MW,	TAITRON	1N747A
020-0050-0	D8	1N751, ZENER,5.1V,10%,400MW,DO-35	NATIONAL	1N751
020-0240-0	D21	1N970B, ZENER, 24V, 5%, 500MW,	TAITRON	1N970B
020-1000-0	D2-4 D10-11 D14	1N4148, RECT-FAST, 200MA, 100V	MOTOROLA	1N4148
020-1022-0	D6-7	BAV20, RECT, 200V, DO-35	NATIONAL	BAV20
020-1104-0	D15	SHOTTKY, 1A, 40V, 10NS, DO-41	MOTOROLA	1N5819
020-1120-0	D1 D12	MUR120,RECT-FAST, 1A, 200V, 25NS,	MOTOROLA	MUR120
020-1122-0	D18-20 D22-24	MUR410, RECT-FAST, 4A, 100V	MOTOROLA	MUR410
020-2106-0	D16-17	1N4004,RECT,1A,400V,DO-41	TAITRON	1N4004
023-0112-0	BR1-3	BRIDGE, 25A, 200V, VERT, PC,	CHENG-YI	MP25-Q2S
031-1336-0	C20 C26	CAP,ELEC,RAD,336,20%,25V	UNITED CHEMI-CON	SRG25VB33RM5X7LL
031-2105-0	C21	CAP,ELEC,RAD, 105, 20%, 50V	UNITED CHEMI-CON	C440C105M5U5CA
031-2106-0	C33 C36-37	CAP,ELEC,RAD, 106, 20%, 50V	UNITED CHEMI-CON	SMG50VB10RM5X11LL
031-2106-A	C7	CAP,ELEC,RAD, 106, 20%, 50VNP	UNITED CHEMI-CON	SMEBP50VB10RM6X11LL
031-2107-0	C9 C31-32	CAP,ELEC,RAD,107, 20%, 50V	UNITED CHEMI-CON	SMG50VB101M8X11LL
031-2335-0	C13	CAP,ELEC,RAD,335,20%,50V	UNITED CHEMI-CON	SMG50VB3R3M5X11LL
031-3159-0	C30,38,40,47	CAP, ELEC, RAD, 159, 20%, 63V	UNITED CHEMI-CON	SMH63VN153M35X63T2
031-4475-0	C16 C19	CAP,EL-R,4.7UF/100V, M	UNITED CHEMI-CON	SMG100VB4R7M5X11LL
031-4476-0	C14 C17	CAP,ELEC,RAD,476,-10%+50%,100V	UNITED CHEMI-CON	SMG100VB47RM10X12LL
032-4103-0	C23	CAP,PE,103,5%,100V,	PANASONIC	ECQV1103JM
032-4104-0	C4-6,18,24,34,35,41-46	CAP,PE,104,5%,100V,	PANASONIC	ECQV1104JM
032-4333-0	C11	CAP,PE,333,5%,100V,	PANASONIC	ECQV1333JM
032-4472-0	C1 C3 C8 C27-29	CAP,PE,472,5%,100V,	PANASONIC	ECQB1472JF
032-4474-0	C48	CAP,PE,474,5%,100V,	PANASONIC	ECQV1474JM
032-7104-0	C2 C25	CAP,PE,104,10%, 250V	ILLINOIS CAPICITOR	104MSR250K
034-4221-0	C10	CAP,MCR,220pF,5%,100V,	TAITRON	TMRS221J100NPOB
034-4471-0	C12	CAP,MCR,470pF,5%,100V,	TAITRON	TMRS471J100NPOB
034-7103-0	C39	CAP, CERMIC DISK, 103, 10%, X-250V	PANASONIC	ECK-DRS103ZV
035-8030-0	C15	CAP MICA AXIAL , 3pF, 10%, 500V	CORNELL	CD10CD030D03
035-8561-0	C22	CAP MICA RADIAL, 561, 5%, 300V	CORNELL	CD15FC561J103
052-2212-0	R43 R45	RES,METAL FILM,2.21k,1/4W,1%	ECI	M2F1AK002.21
052-5622-0	R25 R35	RES,METAL FILM,5.62K,1/4W,1%	ECI	M5F1AK005.62
053-0270-0	R1	RES ,CARBON FILM,2.7 ,1/2W,5%	ECI	R5J3AJ002.70
054-.100-0	R52-53 R55-56 R58-60 R63-64 R66-68	RES, METAL OXIDE, 0.1 Ohm, 1W, 5%	ECI	MO10J3AJ000.10
054-.330-0	R79	RES, METAL OXIDE, 0.33 OHM, 1W, 5%	ECI	MO10J3AJ000.33
055-0101-0	R47-48	RES, METAL OXIDE, 10 OHM, 2W, 5%	ECI	MOM20J3AJ010.00
055-2702-0	R70-71	RES, METAL OXIDE, 2.7K OHM, 2W, 5%	ECI	MOM20J3AK002.70
056-0100-0	R46	RES, CERAMIC WW, 1.0 OHM, 5W, 10%	ECI	WWC50J3AJ001.00
059-1000-0	R17 R39	RES,MF,FUSE,10.0 OHM, 1/4W,1%	JUKN.OHM	FR25-10.0
059-1002-0	R20 R31 R50 R75 R78	RES,MF,FUSE,1.00K,1/4W,1%	JUKN.OHM	FR25-1.00K
059-4750-0	R26 R33	RES,MF,FUSE,47.5 OHM, 1/4W,1%	JUKN.OHM	FR25-47.5
059-6810-0	R61	RES,MF,FUSE,68.1 OHM, 1/4W,1%	JUKN.OHM	FR25-68.1
060-1001-0	R72	RES, METAL FILM, 100 OHM, 1/8W, 1%	ECI	M1F1AJ100.00
060-1002-0	R3,7,8,13,19,30,38,49	RES,METAL FILM, 1.00K, 1/8W, 1%	ECI	M1F1AK001.00
060-1003-0	R40-41	RES,METAL FILM, 10.0K, 1/8W,1%	ECI	M1F1AK010.00
060-1004-0	R36 R44	RES,METAL FILM, 100K, 1/8W, 1%	ECI	M1F1AK100.00



PCB WORK INSTRUCTIONS

DWG 420-0260-A2

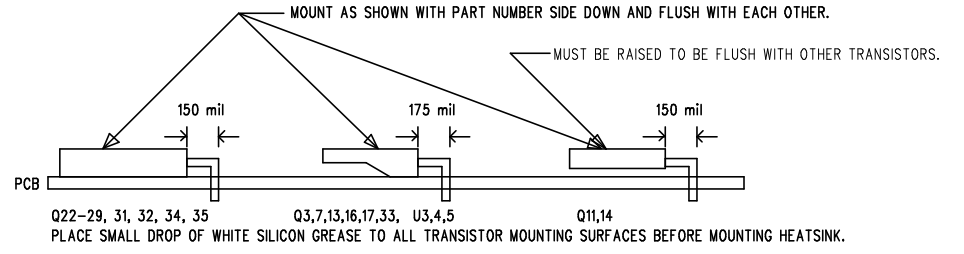
NOTES:

UNLESS OTHERWISE SPECIFIED:

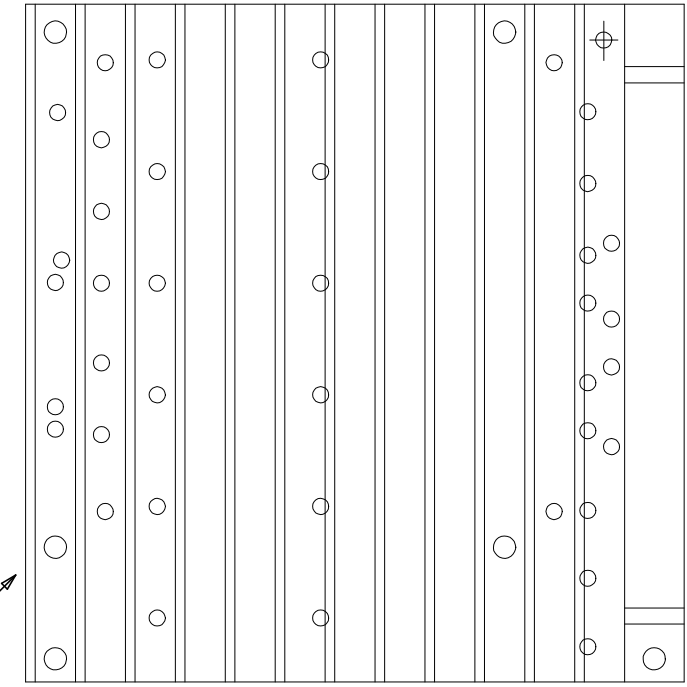
1. SQUARE PADS ON THRU HOLE PARTS (ie: CONNECTORS, DIPS, SIPS, LEADS) DENOTE PIN 1.
2. ALL BOARDS REQUIRE A COMPLETE AND THOROUGH VISUAL INSPECTION.
3. ALL BOARDS MUST BE BARE BOARD TESTED.
4. ASSEMBLE AND SOLDER PER ANSI/IPC-A-610B.

LOADING

5. SEE FORMING AND LOADING INSTRUCTIONS BELOW FOR INSTALLING SPECIFIED COMPONENTS.
6. CHECK THAT R52,53,55,56,58,60,63,64,66,67,68 & S1 ARE FLUSH TO BOARD.
7. CHECK THAT ALL CONNECTORS AND JACKS ARE FLUSH WITH PCB.
8. MAKE CERTAIN ALL POWER TRANSISTOR MOUNTING HOLES ARE PROPERLY ALIGNED FOR HEAT SINK.



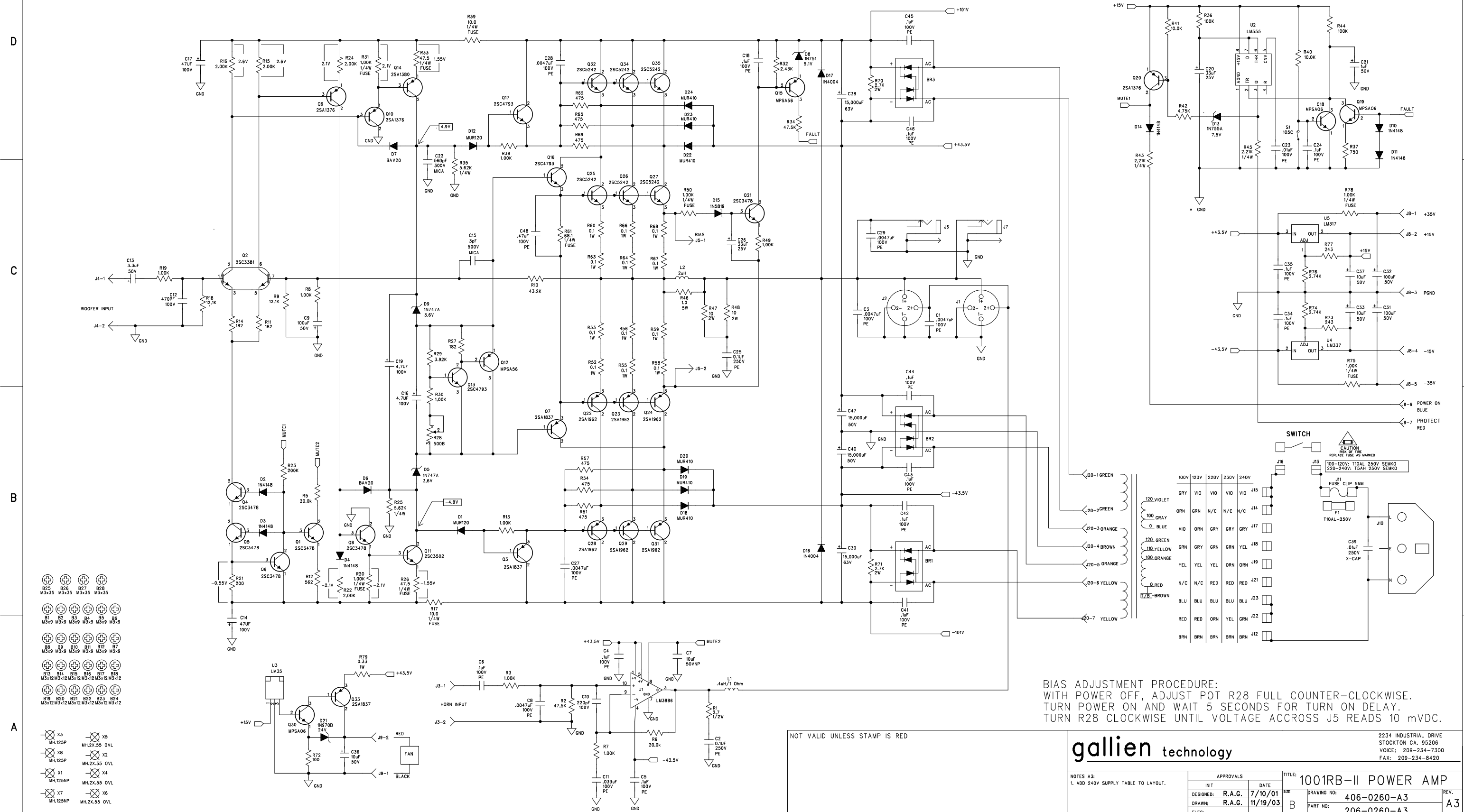
HEAT SINK ASSEMBLY



NOT VALID UNLESS STAMP IS RED		gallien technology		2234 INDUSTRIAL DRIVE STOCKTON CA. 95206 VOICE: 209-234-7300 FAX: 209-234-8420	
APPROVALS		TITLE: 1001RB-II POWER AMP BD			
INIT	DATE	SIZE	DRAWING NO:	REV.	
DESIGNED: R.A.G.	7/16/01	B	405-0260-A2	A2	
DRAWN: R.A.G.	7/10/03		PART NO:		
ELEC:			145-0260-A2		
LAYER DESCRIPTION:		COMPANY: GALLIEN-KRUEGER			
SOLKSSBREESILKSCROMN		GERBER FILE NAME: sst01260ppbo			
		FILENAME: 5260A2			

Customer Name:	Gallien-Krueger	Current Rev #:	A2	New ECO Rev #:	A3
Model:	1001RB-II	Distribute To:		Page:	1
Assembly Description:	1001RB-II power amp board	Originator:	R.A.G.		
Assembly Numbers:	206-0260-A 145-0260-A	Approved by:			
		Effective Date:	7/8/2003		
Effective		Document Update		Date	Initials
<input type="checkbox"/> All in Process	<input checked="" type="checkbox"/> Next Buy	<input type="checkbox"/> Artwork			
<input type="checkbox"/> All in Service	<input type="checkbox"/> Next Production Run	<input type="checkbox"/> Assembly Dwg.			
<input type="checkbox"/> All in Stock	<input type="checkbox"/>	<input checked="" type="checkbox"/> Board Artwork			
Beginning Serial Number:		<input checked="" type="checkbox"/> BOM			
Reason For Change		<input type="checkbox"/> Control Form			
Add 240V supply table to board and schematic.		<input type="checkbox"/> Costing			
		<input type="checkbox"/> Fab Drawing			
		<input type="checkbox"/> Inspection Proc.			
		<input checked="" type="checkbox"/> Part Master File			
		<input checked="" type="checkbox"/> Schematic			
		<input type="checkbox"/> Service Manual			
		<input type="checkbox"/> Test Procedure			
		<input type="checkbox"/>			
		<input type="checkbox"/>			
Other Affected Assemblies					
<input type="checkbox"/> Continued on ECO Supplement Page					
Description Of Change		Distribution		Date	Initials
		<input type="checkbox"/> Accounting			
		<input type="checkbox"/> Assembly			
		<input type="checkbox"/> Customer			
		<input checked="" type="checkbox"/> Engineering			
		<input checked="" type="checkbox"/> Incoming Q.C.			
		<input type="checkbox"/> Planning			
		<input checked="" type="checkbox"/> Production Eng.			
		<input checked="" type="checkbox"/> Purchasing			
		<input type="checkbox"/> Q.A.			
		<input type="checkbox"/> Receiving			
		<input type="checkbox"/> Service			
		<input checked="" type="checkbox"/> Test			
		<input type="checkbox"/> Vendor			
		<input type="checkbox"/>			
		<input type="checkbox"/>			
<input type="checkbox"/> Continued on ECO Supplement Page		<input type="checkbox"/> Drawing(s) attached			
Part Number	Description	Parts Added		Parts Deleted	
		Qty	Ref. Designator	Qty	Ref. Designator

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



BIAS ADJUSTMENT PROCEDURE:
 WITH POWER OFF, ADJUST POT R28 FULL COUNTER-CLOCKWISE.
 TURN POWER ON AND WAIT 5 SECONDS FOR TURN ON DELAY.
 TURN R28 CLOCKWISE UNTIL VOLTAGE ACROSS J5 READS 10 mVDC.

- ⊕ B25 M3x3.5
- ⊕ B26 M3x3.5
- ⊕ B27 M3x3.5
- ⊕ B28 M3x3.5
- ⊕ B1 M3x9
- ⊕ B2 M3x9
- ⊕ B3 M3x9
- ⊕ B4 M3x9
- ⊕ B5 M3x9
- ⊕ B6 M3x9
- ⊕ B7 M3x9
- ⊕ B8 M3x9
- ⊕ B9 M3x9
- ⊕ B10 M3x9
- ⊕ B11 M3x9
- ⊕ B12 M3x9
- ⊕ B13 M3x12
- ⊕ B14 M3x12
- ⊕ B15 M3x12
- ⊕ B16 M3x12
- ⊕ B17 M3x12
- ⊕ B18 M3x12
- ⊕ B19 M3x12
- ⊕ B20 M3x12
- ⊕ B21 M3x12
- ⊕ B22 M3x12
- ⊕ B23 M3x12
- ⊕ B24 M3x12
- ⊗ X3 MH.125P
- ⊗ X4 MH.125P
- ⊗ X5 MH.2X.55 OVL
- ⊗ X6 MH.2X.55 OVL
- ⊗ X7 MH.125NP
- ⊗ X8 MH.125P
- ⊗ X9 MH.2X.55 OVL
- ⊗ X10 MH.2X.55 OVL

NOT VALID UNLESS STAMP IS RED

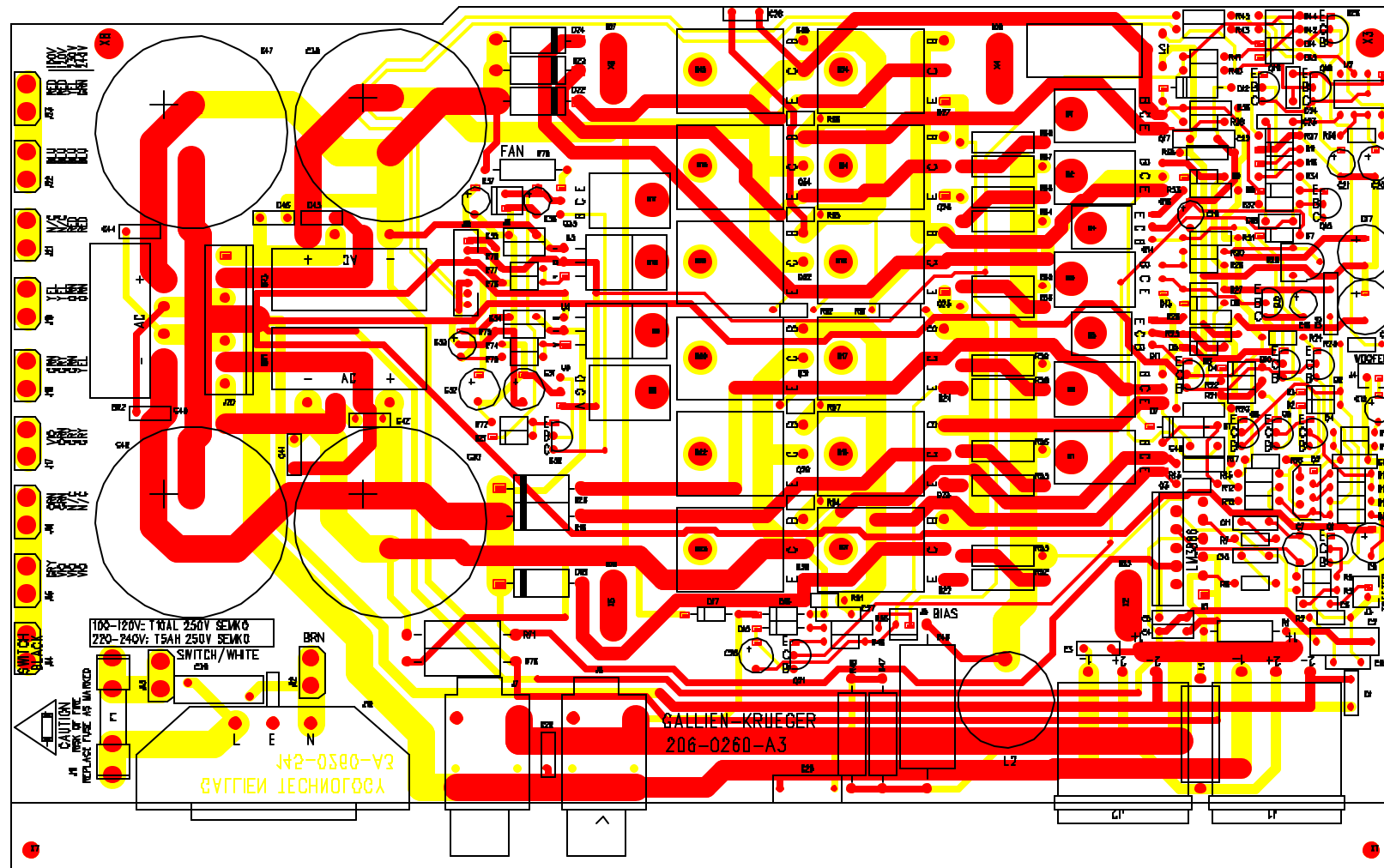
gallien technology

2234 INDUSTRIAL DRIVE
 STOCKTON CA. 95206
 VOICE: 209-234-7300
 FAX: 209-234-8420

DESIGNED: R.A.G.	DATE: 7/10/01	TITLE: 1001RB-II POWER AMP	REV.:
DRAWN: R.A.G.	DATE: 11/19/03	DRAWING NO: 406-0260-A3	A3
ELEC:		PART NO: 206-0260-A3	
MECH:		COMPANY: GALLIEN KRUEGER	
Q/A:		FILENAME: 6260A3.sch	
RELEASED:			

1001RB-II Power Amp 206-0260-A3

Part No.	Reference	Description	Manufacturer	Mfr. Part No.
001-2060-0	U2	LM555, TIMER	NATIONAL	LM555CN
001-3886-0	U1	LM3886 ,68W AUDIO POWER AMP	NATIONAL	LM3886T
010-0000-0	Q2	2SC3381BL,NPNX2,80V,100MA,2-10M1B	TOSHIBA	2SC3281BL
010-0001-0	Q1 Q4-6 Q8 Q21	2SC3478, NPN,180V,100MA,TO-92	NEC	2SC3478-K
010-0003-0	Q11	2SC3502-F,NPN,200V,100MA,TO-126	TOSHIBA	2SC3502
010-0012-0	Q18-19 Q30	MPSA06, NPN,80V,500MA,TO-92	MOTOROLA	MPS-A06
010-0035-0	U3	LM35DT, TEMPERATURE SENSOR, TO-220	NATIONAL	LM35DT
010-1002-0	Q9-10 Q20	2SA1376, PNP,180V,100MA,TO-92	NEC	2SA1376-K
010-1003-0	Q14	2SA1380-F,PNP,200V,100MA,TO-126	SANYO/TOSHIBA	2SA1380-F/E
010-1013-0	Q12 Q15	MPSA56 PNP 80V 500MA TO-92	MOTOROLA	MPS-A56
012-0002-0	Q13 Q16-17	2SC4793,NPN,200V,1.5A,2-10R1A	TOSHIBA	2SC4793
012-0003-0	Q25-27 Q32 Q34-35	2SC5242,NPN,230V,15A,2-16C1A	TOSHIBA	2SC5242-O
012-1002-0	Q3 Q7 Q33	2SA1837,PNP,200V,1.5A,2-10R1A	TOSHIBA	2SA1837
012-1003-0	Q22-24 Q28-29 Q31	2SA1962,PNP,230V,15A,2-16C1A	TOSHIBA	2SA1962
014-0070-0	U5	LM317	NATIONAL	LM317
014-1072-0	U4	LM337	NATIONAL	LM337
020-0004-0	D13	1N755A, ZENER,7.5V,500MW ,D035	TAITRON	1N755A
020-0036-0	D5 D9	1N747A, ZENER, 3.6V, 5%, 400MW,	TAITRON	1N747A
020-0050-0	D8	1N751, ZENER,5.1V,10%,400MW,DO-35	NATIONAL	1N751
020-0240-0	D21	1N970B, ZENER, 24V, 5%, 500MW,	TAITRON	1N970B
020-1000-0	D2-4 D10-11 D14	1N4148, RECT-FAST, 200MA, 100V	MOTOROLA	1N4148
020-1022-0	D6-7	BAV20, RECT, 200V, DO-35	NATIONAL	BAV20
020-1104-0	D15	SHOTTKY, 1A, 40V, 10NS, DO-41	MOTOROLA	1N5819
020-1120-0	D1 D12	MUR120,RECT-FAST, 1A, 200V, 25NS,	MOTOROLA	MUR120
020-1122-0	D18-20 D22-24	MUR410, RECT-FAST, 4A, 100V	MOTOROLA	MUR410
020-2106-0	D16-17	1N4004,RECT,1A,400V,DO-41	TAITRON	1N4004
023-0112-0	BR1-3	BRIDGE, 25A, 200V, VERT, PC,	CHENG-YI	MP25-Q2S
031-1336-0	C20 C26	CAP,ELEC,RAD,336,20%,25V	UNITED CHEMI-CON	SRG25VB33RM5X7LL
031-2105-0	C21	CAP,ELEC,RAD, 105, 20%, 50V	UNITED CHEMI-CON	C440C105M5U5CA
031-2106-0	C33 C36-37	CAP,ELEC,RAD, 106, 20%, 50V	UNITED CHEMI-CON	SMG50VB10RM5X11LL
031-2106-A	C7	CAP,ELEC,RAD, 106, 20%, 50VNP	UNITED CHEMI-CON	SMEBP50VB10RM6X11LL
031-2107-0	C9 C31-32	CAP,ELEC,RAD,107, 20%, 50V	UNITED CHEMI-CON	SMG50VB101M8X11LL
031-2335-0	C13	CAP,ELEC,RAD,335,20%,50V	UNITED CHEMI-CON	SMG50VB3R3M5X11LL
031-3159-0	C30,38,40,47	CAP, ELEC, RAD, 159, 20%, 63V	UNITED CHEMI-CON	SMH63VN153M35X63T2
031-4475-0	C16 C19	CAP,EL-R,4.7UF/100V, M	UNITED CHEMI-CON	SMG100VB4R7M5X11LL
031-4476-0	C14 C17	CAP,ELEC,RAD,476,-10%+50%,100V	UNITED CHEMI-CON	SMG100VB47RM10X12LL
032-4103-0	C23	CAP,PE,103,5%,100V,	PANASONIC	ECQV1103JM
032-4104-0	C4-6,18,24,34,35,41-46	CAP,PE,104,5%,100V,	PANASONIC	ECQV1104JM
032-4333-0	C11	CAP,PE,333,5%,100V,	PANASONIC	ECQV1333JM
032-4472-0	C1 C3 C8 C27-29	CAP,PE,472,5%,100V,	PANASONIC	ECQB1472JF
032-4474-0	C48	CAP,PE,474,5%,100V,	PANASONIC	ECQV1474JM
032-7104-0	C2 C25	CAP,PE,104,10%, 250V	ILLINOIS CAPICITOR	104MSR250K
034-4221-0	C10	CAP,MCR,220pF,5%,100V,	TAITRON	TMRS221J100NPOB
034-4471-0	C12	CAP,MCR,470pF,5%,100V,	TAITRON	TMRS471J100NPOB
034-7103-0	C39	CAP, CERMIC DISK, 103, 10%, X-250V	PANASONIC	ECK-DRS103ZV
035-8030-0	C15	CAP MICA AXIAL , 3pF, 10%, 500V	CORNELL	CD10CD030D03
035-8561-0	C22	CAP MICA RADIAL, 561, 5%, 300V	CORNELL	CD15FC561J103
052-2212-0	R43 R45	RES,METAL FILM,2.21k,1/4W,1%	ECI	M2F1AK002.21
052-5622-0	R25 R35	RES,METAL FILM,5.62K,1/4W,1%	ECI	M5F1AK005.62
053-0270-0	R1	RES ,CARBON FILM,2.7 ,1/2W,5%	ECI	R5J3AJ002.70
054-.100-0	R52-53 R55-56 R58-60 R63-64 R66-68	RES, METAL OXIDE, 0.1 Ohm, 1W, 5%	ECI	MO10J3AJ000.10
054-.330-0	R79	RES, METAL OXIDE, 0.33 OHM, 1W, 5%	ECI	MO10J3AJ000.33
055-0101-0	R47-48	RES, METAL OXIDE, 10 OHM, 2W, 5%	ECI	MOM20J3AJ010.00
055-2702-0	R70-71	RES, METAL OXIDE, 2.7K OHM, 2W, 5%	ECI	MOM20J3AK002.70
056-0100-0	R46	RES, CERAMIC WW, 1.0 OHM, 5W, 10%	ECI	WWC50J3AJ001.00
059-1000-0	R17 R39	RES,MF,FUSE,10.0 OHM, 1/4W,1%	JUKN.OHM	FR25-10.0
059-1002-0	R20 R31 R50 R75 R78	RES,MF,FUSE,1.00K,1/4W,1%	JUKN.OHM	FR25-1.00K
059-4750-0	R26 R33	RES,MF,FUSE,47.5 OHM, 1/4W,1%	JUKN.OHM	FR25-47.5
059-6810-0	R61	RES,MF,FUSE,68.1 OHM, 1/4W,1%	JUKN.OHM	FR25-68.1
060-1001-0	R72	RES, METAL FILM, 100 OHM, 1/8W, 1%	ECI	M1F1AJ100.00
060-1002-0	R3,7,8,13,19,30,38,49	RES,METAL FILM, 1.00K, 1/8W, 1%	ECI	M1F1AK001.00
060-1003-0	R40-41	RES,METAL FILM, 10.0K, 1/8W,1%	ECI	M1F1AK010.00
060-1004-0	R36 R44	RES,METAL FILM, 100K, 1/8W, 1%	ECI	M1F1AK100.00



PCB WORK INSTRUCTIONS

DWG 420-0260-A3

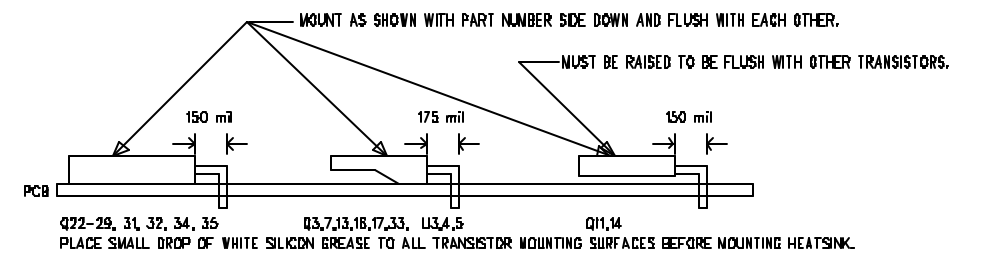
NOTES:

UNLESS OTHERWISE SPECIFIED:

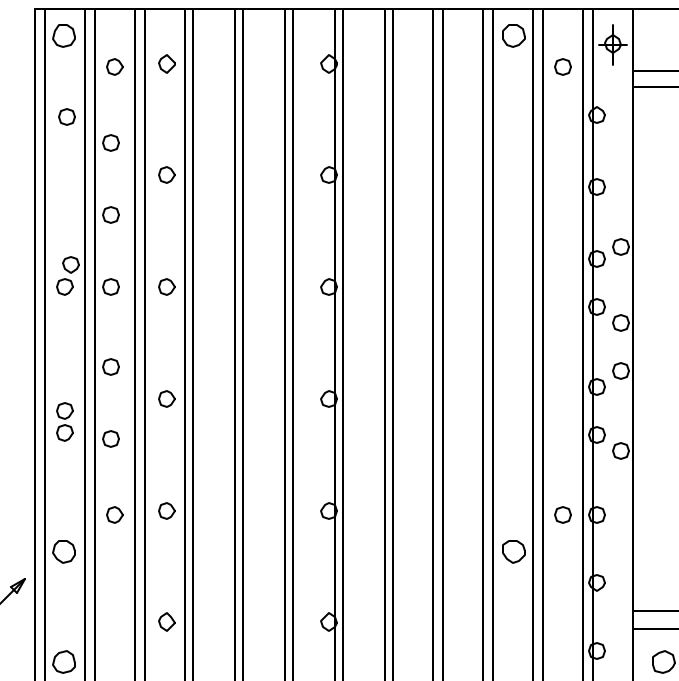
1. SQUARE PADS ON THRU HOLE PARTS (i.e. CONNECTORS, DPS, SIPS, LEADS) DENOTE PIN 1.
2. ALL BOARDS REQUIRE A COMPLETE AND THOROUGH VISUAL INSPECTION.
3. ALL BOARDS MUST BE BARE BOARD TESTED.
4. ASSEMBLE AND SOLDER PER ANSI/IPC-A-610B.

LOADING

5. SEE FORMING AND LOADING INSTRUCTIONS BELOW FOR INSTALLING SPECIFIED COMPONENTS.
6. CHECK THAT R52,53,55,56,58,60,63,64,66,67,68 & 51 ARE FLUSH TO BOARD.
7. CHECK THAT ALL CONNECTORS AND JACKS ARE FLUSH WITH PCB.
8. MAKE CERTAIN ALL POWER TRANSISTOR MOUNTING HOLES ARE PROPERLY ALIGNED FOR HEAT SINK.



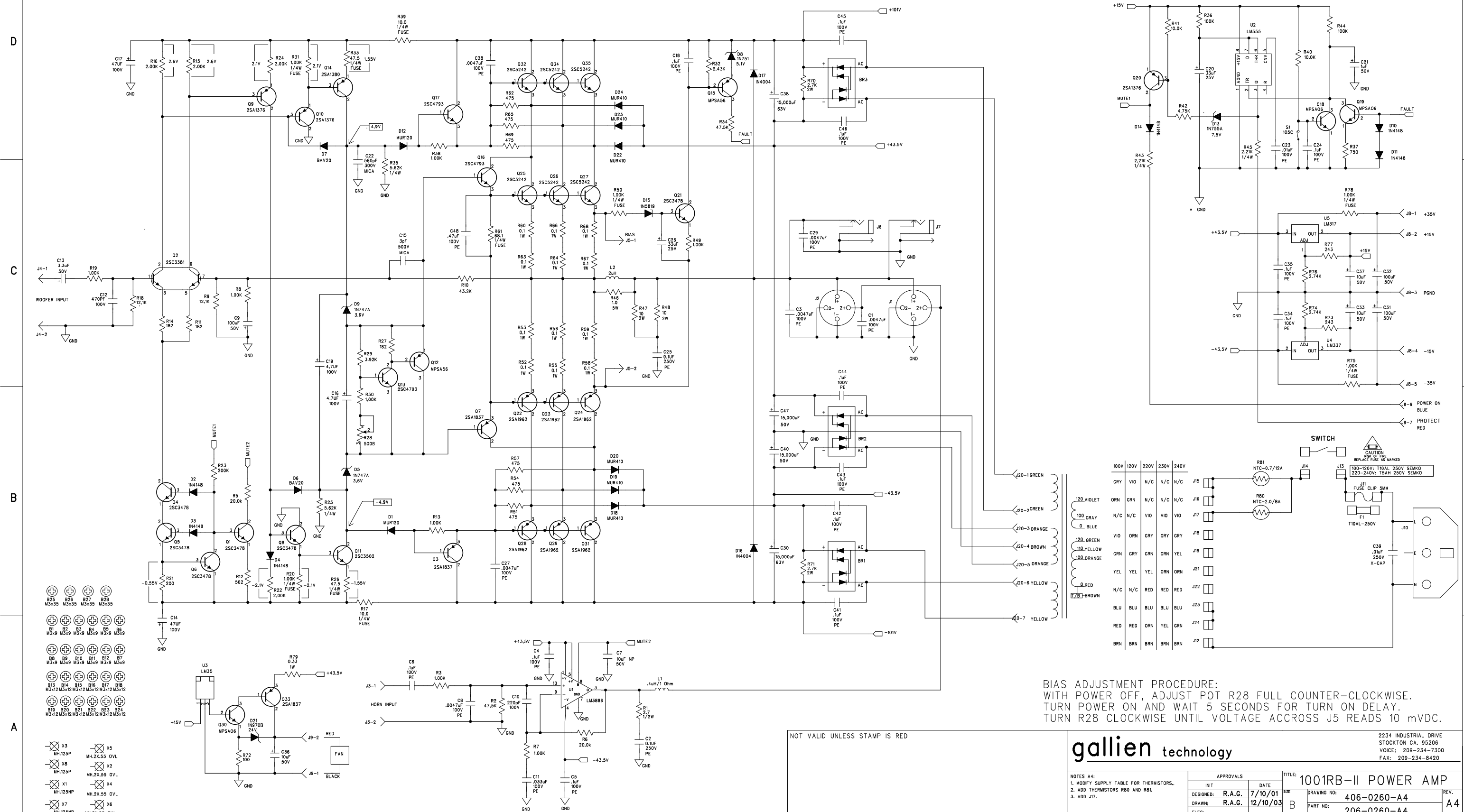
HEAT SINK ASSEMBLY



NOT VALID UNLESS STAMP IS RED		gallien technology		2234 INDUSTRIAL DRIVE STOCKTON, CA, 95206 VOICE: 209-234-7300 FAX: 209-234-0420	
APPROVALS			TITLE: 1001RB-II POWER AMP BD		
INIT	DATE	SIZE	DRAWING NO:	REV.	
DESIGNED: R.A.G.	7/16/01	B	405-0260-A3	A3	
DRAWN: R.A.G.	11/19/03		PART NO:		
ELEC:			145-0260-A3		
LAYER DESCRIPTION:			COMPANY: GALLIEN-KRUEGER		
SOLR SSBRE ESNLKS CTRDWIN			FILENAME: 5260A3		
MECH:			GERBER FILE NAME: sst01260ppbo		

Customer Name:		Gallien-Krueger		Current Rev #:	A3	New ECO Rev #:	A4
Model:		1001RB-II		Distribute To:		Page:	1 Of: 1
Assembly Description:		1001RB-II power amp board		Originator:	R.A.G.		
Assembly Numbers:		206-0260-A 145-0260-A		Approved by:			
				Effective Date:	12/14/2003		
Effective				Document Update		Date	Initials
<input checked="" type="checkbox"/>	All in Process	<input checked="" type="checkbox"/>	Next Buy	<input type="checkbox"/>	Artwork		
<input type="checkbox"/>	All in Service	<input type="checkbox"/>	Next Production Run	<input type="checkbox"/>	Assembly Dwg.		
<input type="checkbox"/>	All in Stock	<input type="checkbox"/>		<input checked="" type="checkbox"/>	Board Artwork		
Beginning Serial Number:				<input checked="" type="checkbox"/>	BOM		
Reason For Change				<input type="checkbox"/>	Control Form		
Prevent fuse failure due to inrush current at turn on. An improvement to A3 which was not put into production.				<input checked="" type="checkbox"/>	Costing		
				<input type="checkbox"/>	Fab Drawing		
				<input type="checkbox"/>	Inspection Proc.		
				<input checked="" type="checkbox"/>	Part Master File		
				<input checked="" type="checkbox"/>	Schematic		
				<input type="checkbox"/>	Service Manual		
				<input type="checkbox"/>	Test Procedure		
				<input type="checkbox"/>			
				<input type="checkbox"/>			
Other Affected Assemblies							
<input type="checkbox"/> Continued on ECO Supplement Page							
Description Of Change				Distribution		Date	Initials
Add NTC thermistors to the primary side of the transformer. One for 120V and another for 230V. An additional primary terminal is added to accommodate the wiring.				<input type="checkbox"/>	Accounting		
For current production a thermistor of the proper value will be added to the bottom of the board.				<input type="checkbox"/>	Assembly		
For 220V-240V use NTC-2R/8A.				<input type="checkbox"/>	Customer		
For 100V-120V use NTC-.7R/12A.				<input checked="" type="checkbox"/>	Engineering		
				<input checked="" type="checkbox"/>	Incoming Q.C.		
				<input type="checkbox"/>	Planning		
				<input checked="" type="checkbox"/>	Production Eng.		
				<input checked="" type="checkbox"/>	Purchasing		
				<input type="checkbox"/>	Q.A.		
				<input type="checkbox"/>	Receiving		
				<input type="checkbox"/>	Service		
				<input type="checkbox"/>	Test		
				<input type="checkbox"/>	Vendor		
				<input type="checkbox"/>			
				<input type="checkbox"/>			
<input type="checkbox"/> Continued on ECO Supplement Page				<input type="checkbox"/>	Drawing(s) attached		
Part Number	Description	Parts Added		Parts Deleted			
		Qty	Ref. Designator	Qty	Ref. Designator		
022-3000-0	THR NTC-.7R/12A	1	R81				
022-3008-0	THER NTC-2R/8A	1	R80				
092-0066-0	FASTON	1	J24				

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



BIAS ADJUSTMENT PROCEDURE:
 WITH POWER OFF, ADJUST POT R28 FULL COUNTER-CLOCKWISE.
 TURN POWER ON AND WAIT 5 SECONDS FOR TURN ON DELAY.
 TURN R28 CLOCKWISE UNTIL VOLTAGE ACROSS J5 READS 10 mVDC.

NOT VALID UNLESS STAMP IS RED

gallien technology

2234 INDUSTRIAL DRIVE
 STOCKTON CA. 95206
 VOICE: 209-234-7300
 FAX: 209-234-8420

TITLE: 1001RB-II POWER AMP

DESIGNED: R.A.G. 7/10/01
 DRAWN: R.A.G. 12/10/03

DRAWING NO: 406-0260-A4
 PART NO: 206-0260-A4

COMPANY: GALLIEN KRUEGER

FILENAME: 6260A4.sch

REV. A4

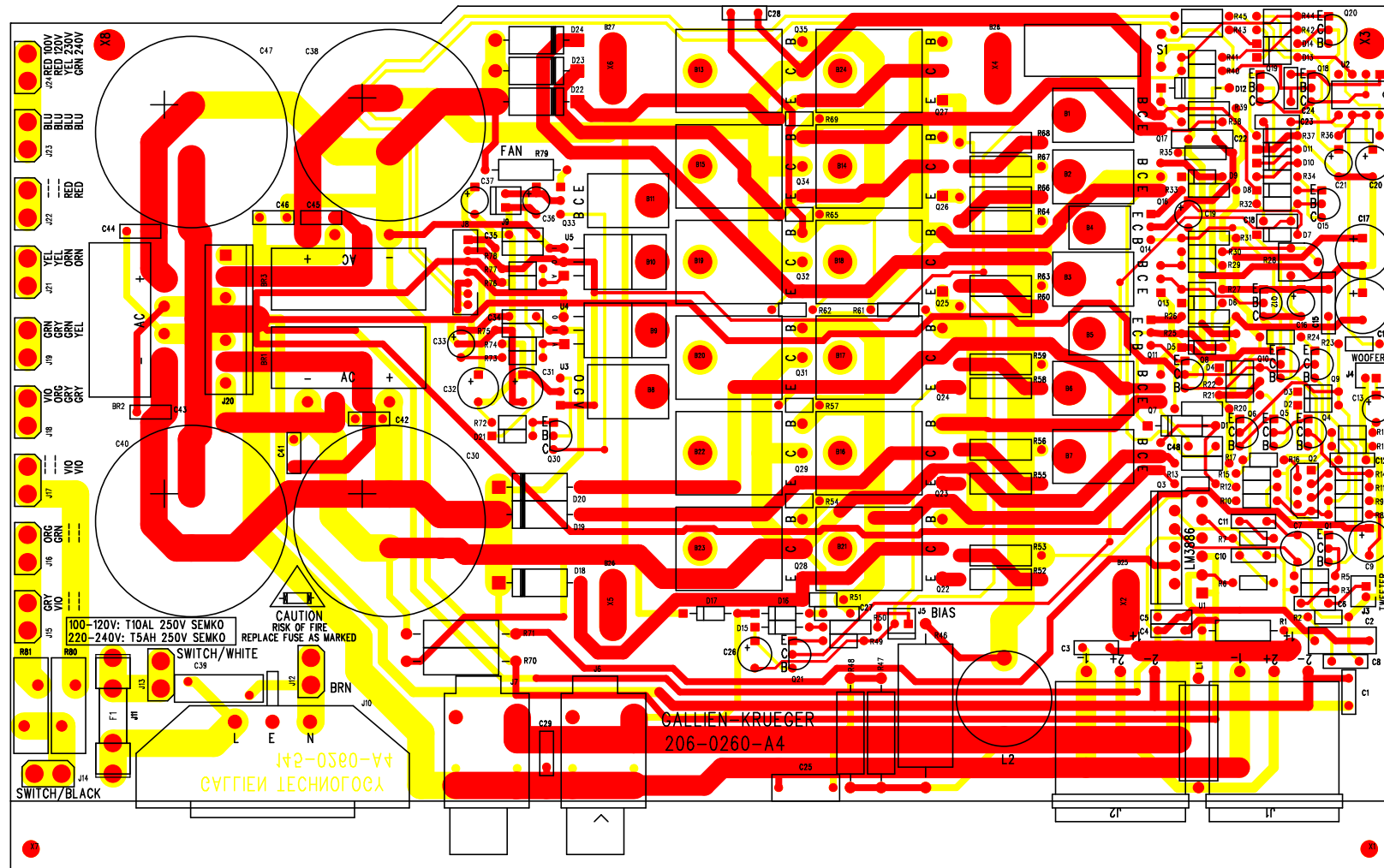
NOTES A4:
 1. MODIFY SUPPLY TABLE FOR THERMISTORS.
 2. ADD THERMISTORS R80 AND R81.
 3. ADD J17.

- B25 M3x35
- B26 M3x35
- B27 M3x35
- B28 M3x35
- B1 M3x9
- B2 M3x9
- B3 M3x9
- B4 M3x9
- B5 M3x9
- B6 M3x9
- B7 M3x9
- B8 M3x9
- B9 M3x9
- B10 M3x9
- B11 M3x9
- B12 M3x9
- B13 M3x12
- B14 M3x12
- B15 M3x12
- B16 M3x12
- B17 M3x12
- B18 M3x12
- B19 M3x12
- B20 M3x12
- B21 M3x12
- B22 M3x12
- B23 M3x12
- B24 M3x12
- X3 MH,2X.55 OVL
- X4 MH,2X.55 OVL
- X5 MH,2X.55 OVL
- X6 MH,2X.55 OVL
- X7 MH,2X.55 OVL
- X8 MH,2X.55 OVL
- X9 MH,2X.55 OVL
- X10 MH,2X.55 OVL
- X11 MH,2X.55 OVL
- X12 MH,2X.55 OVL
- X13 MH,2X.55 OVL
- X14 MH,2X.55 OVL
- X15 MH,2X.55 OVL
- X16 MH,2X.55 OVL
- X17 MH,2X.55 OVL
- X18 MH,2X.55 OVL
- X19 MH,2X.55 OVL
- X20 MH,2X.55 OVL
- X21 MH,2X.55 OVL
- X22 MH,2X.55 OVL
- X23 MH,2X.55 OVL
- X24 MH,2X.55 OVL
- X25 MH,2X.55 OVL
- X26 MH,2X.55 OVL
- X27 MH,2X.55 OVL
- X28 MH,2X.55 OVL
- X29 MH,2X.55 OVL
- X30 MH,2X.55 OVL
- X31 MH,2X.55 OVL
- X32 MH,2X.55 OVL
- X33 MH,2X.55 OVL
- X34 MH,2X.55 OVL
- X35 MH,2X.55 OVL
- X36 MH,2X.55 OVL
- X37 MH,2X.55 OVL
- X38 MH,2X.55 OVL
- X39 MH,2X.55 OVL
- X40 MH,2X.55 OVL
- X41 MH,2X.55 OVL
- X42 MH,2X.55 OVL
- X43 MH,2X.55 OVL
- X44 MH,2X.55 OVL
- X45 MH,2X.55 OVL
- X46 MH,2X.55 OVL
- X47 MH,2X.55 OVL
- X48 MH,2X.55 OVL
- X49 MH,2X.55 OVL
- X50 MH,2X.55 OVL

GALLIEN-KRUEGER

1001RB-II Power Amp 206-0260-A4

Part No.	Reference	Description	Manufacturer	Mfr. Part No.
001-2060-0	U2	LM555, TIMER	NATIONAL	LM555CN
001-3886-0	U1	LM3886 ,68W AUDIO POWER AMP	NATIONAL	LM3886T
010-0000-0	Q2	2SC3381BL,NPNX2,80V,100MA,2-10M1B	TOSHIBA	2SC3281BL
010-0001-0	Q1 Q4-6 Q8 Q21	2SC3478, NPN,180V,100MA,TO-92	NEC	2SC3478-K
010-0003-0	Q11	2SC3502-F,NPN,200V,100MA,TO-126	TOSHIBA	2SC3502
010-0012-0	Q18-19 Q30	MPSA06, NPN,80V,500MA,TO-92	MOTOROLA	MPS-A06
010-0035-0	U3	LM35DT, TEMPERATURE SENSOR, TO-220	NATIONAL	LM35DT
010-1002-0	Q9-10 Q20	2SA1376, PNP,180V,100MA,TO-92	NEC	2SA1376-K
010-1003-0	Q14	2SA1380-F,PNP,200V,100MA,TO-126	SANYO/TOSHIBA	2SA1380-F/E
010-1013-0	Q12 Q15	MPSA56 PNP 80V 500MA TO-92	MOTOROLA	MPS-A56
012-0002-0	Q13 Q16-17	2SC4793,NPN,200V,1.5A,2-10R1A	TOSHIBA	2SC4793
012-0003-0	Q25-27 Q32 Q34-35	2SC5242,NPN,230V,15A,2-16C1A	TOSHIBA	2SC5242-O
012-1002-0	Q3 Q7 Q33	2SA1837,PNP,200V,1.5A,2-10R1A	TOSHIBA	2SA1837
012-1003-0	Q22-24 Q28-29 Q31	2SA1962,PNP,230V,15A,2-16C1A	TOSHIBA	2SA1962
014-0070-0	U5	LM317	NATIONAL	LM317
014-1072-0	U4	LM337	NATIONAL	LM337
020-0004-0	D13	1N755A, ZENER,7.5V,500MW ,D035	TAITRON	1N755A
020-0036-0	D5 D9	1N747A, ZENER, 3.6V, 5%, 400MW,	TAITRON	1N747A
020-0050-0	D8	1N751, ZENER,5.1V,10%,400MW,DO-35	NATIONAL	1N751
020-0240-0	D21	1N970B, ZENER, 24V, 5%, 500MW,	TAITRON	1N970B
020-1000-0	D2-4 D10-11 D14	1N4148, RECT-FAST, 200MA, 100V	MOTOROLA	1N4148
020-1022-0	D6-7	BAV20, RECT, 200V, DO-35	NATIONAL	BAV20
020-1104-0	D15	SHOTTKY, 1A, 40V, 10NS, DO-41	MOTOROLA	1N5819
020-1120-0	D1 D12	MUR120,RECT-FAST, 1A, 200V, 25NS,	MOTOROLA	MUR120
020-1122-0	D18-20 D22-24	MUR410, RECT-FAST, 4A, 100V	MOTOROLA	MUR410
020-2106-0	D16-17	1N4004,RECT,1A,400V,DO-41	TAITRON	1N4004
022-3000-0	R81	THERMISTOR, 0.7 OHM, 12A	UEI	N20SP0R7M
022-3008-0	R80	THERMISTOR, 2 OHM, 8A	UEI	N20SP002M
023-0112-0	BR1-3	BRIDGE, 25A, 200V, VERT, PC,	CHENG-YI	MP25-02S
031-1336-0	C20 C26	CAP,ELEC,RAD,336,20%,25V	UNITED CHEMI-CON	SRG25VB33RM5X7LL
031-2105-0	C21	CAP,ELEC,RAD, 105, 20%, 50V	UNITED CHEMI-CON	C440C105M5U5CA
031-2106-0	C33 C36-37	CAP,ELEC,RAD, 106, 20%, 50V	UNITED CHEMI-CON	SMG50VB10RM5X11LL
031-2106-A	C7	CAP,ELEC,RAD, 106, 20%, 50VNP	UNITED CHEMI-CON	SMEBP50VB10RM6X11LL
031-2107-0	C9 C31-32	CAP,ELEC,RAD,107, 20%, 50V	UNITED CHEMI-CON	SMG50VB101M8X11LL
031-2159-0	C40,47	CAP, ELEC, RAD, 159, 20%, 50V	UNITED CHEMI-CON	SMH50VN153M35X45T2
031-2335-0	C13	CAP,ELEC,RAD,335,20%,50V	UNITED CHEMI-CON	SMG50VB3R3M5X11LL
031-3159-0	C30,38	CAP, ELEC, RAD, 159, 20%, 63V	UNITED CHEMI-CON	SMH63VN153M35X63T2
031-4475-0	C16 C19	CAP,EL-R,4.7UF/100V, M	UNITED CHEMI-CON	SMG100VB4R7M5X11LL
031-4476-0	C14 C17	CAP,ELEC,RAD,476,-10%+50%,100V	UNITED CHEMI-CON	SMG100VB47RM10X12LL
032-4103-0	C23	CAP,PE,103,5%,100V,	PANASONIC	ECQV1103JM
032-4104-0	C4-6,18,24,34,35,41-46	CAP,PE,104,5%,100V,	PANASONIC	ECQV1104JM
032-4333-0	C11	CAP,PE,333,5%,100V,	PANASONIC	ECQV1333JM
032-4472-0	C1 C3 C8 C27-29	CAP,PE,472,5%,100V,	PANASONIC	ECQB1472JF
032-4474-0	C48	CAP,PE,474,5%,100V,	PANASONIC	ECQV1474JM
032-7104-0	C2 C25	CAP,PE,104,10%, 250V	ILLINOIS CAPICITOR	104MSR250K
034-4221-0	C10	CAP,MCR,220pF,5%,100V,	TAITRON	TMRS221J100NPOB
034-4471-0	C12	CAP,MCR,470pF,5%,100V,	TAITRON	TMRS471J100NPOB
034-7103-0	C39	CAP, CERMIC DISK, 103, 10%, X-250V	PANASONIC	ECK-DRS103ZV
035-8030-0	C15	CAP MICA AXIAL , 3pF, 10%, 500V	CORNELL	CD10CD030D03
035-8561-0	C22	CAP MICA RADIAL, 561, 5%, 300V	CORNELL	CD15FC561J103
052-2212-0	R43 R45	RES,METAL FILM,2.21k,1/4W,1%	ECI	M2F1AK002.21
052-5622-0	R25 R35	RES,METAL FILM,5.62K,1/4W,1%	ECI	M5F1AK005.62
053-0270-0	R1	RES ,CARBON FILM,2.7 ,1/2W,5%	ECI	R5J3AJ002.70
054-.100-0	R52-53 R55-56 R58-60 R63-64 R66-68	RES, METAL OXIDE, 0.1 Ohm, 1W, 5%	ECI	MO10J3AJ000.10
054-.330-0	R79	RES, METAL OXIDE, 0.33 OHM, 1W, 5%	ECI	MO10J3AJ000.33
055-0101-0	R47-48	RES, METAL OXIDE, 10 OHM, 2W, 5%	ECI	MOM20J3AJ010.00
055-2702-0	R70-71	RES, METAL OXIDE, 2.7K OHM, 2W, 5%	ECI	MOM20J3AK002.70
056-0100-0	R46	RES, CERAMIC WW, 1.0 OHM, 5W, 10%	ECI	WWC50J3AJ001.00
059-1000-0	R17 R39	RES,MF,FUSE,10.0 OHM, 1/4W,1%	JUKN.OHM	FR25-10.0
059-1002-0	R20 R31 R50 R75 R78	RES,MF,FUSE,1.00K,1/4W,1%	JUKN.OHM	FR25-1.00K
059-4750-0	R26 R33	RES,MF,FUSE,47.5 OHM, 1/4W,1%	JUKN.OHM	FR25-47.5
059-6810-0	R61	RES,MF,FUSE,68.1 OHM, 1/4W,1%	JUKN.OHM	FR25-68.1
060-1001-0	R72	RES, METAL FILM, 100 OHM, 1/8W, 1%	ECI	M1F1AJ100.00
060-1002-0	R3,7,8,13,19,30,38,49	RES,METAL FILM, 1.00K, 1/8W, 1%	ECI	M1F1AK001.00
060-1003-0	R40-41	RES,METAL FILM, 10.0K, 1/8W,1%	ECI	M1F1AK010.00
060-1004-0	R36 R44	RES,METAL FILM, 100K, 1/8W, 1%	ECI	M1F1AK100.00



PCB WORK INSTRUCTIONS

DWG 420-0260-A4

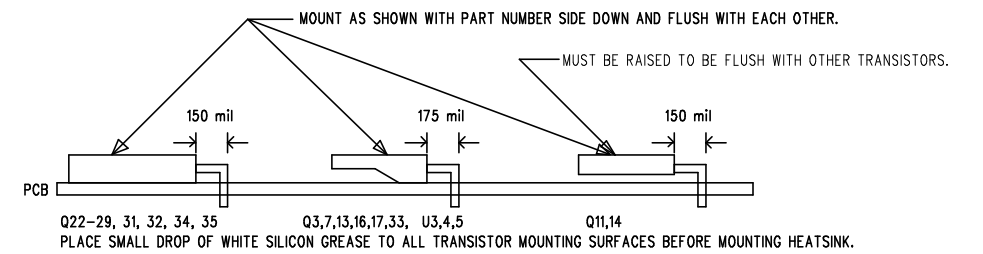
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UNLESS OTHERWISE SPECIFIED:

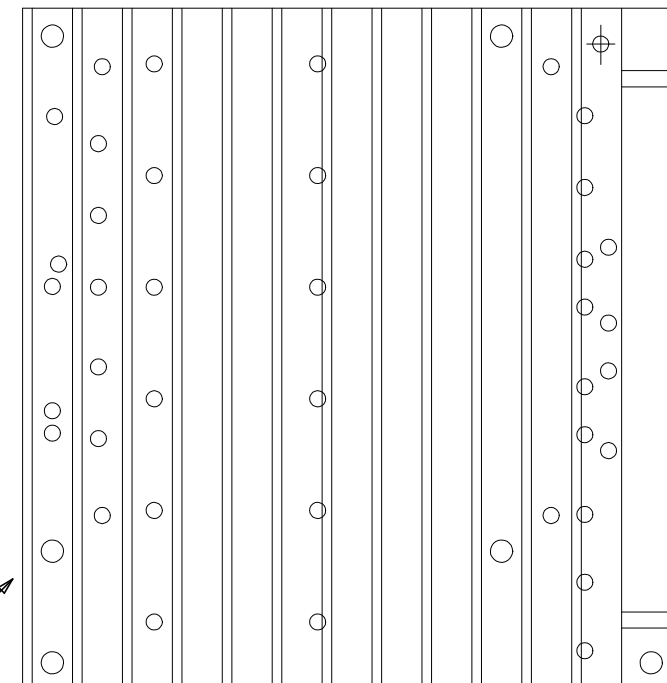
1. SQUARE PADS ON THRU HOLE PARTS (ie: CONNECTORS, DIPS, SIPS, LEDS) DENOTE PIN 1.
2. ALL BOARDS REQUIRE A COMPLETE AND THOROUGH VISUAL INSPECTION.
3. ALL BOARDS MUST BE BARE BOARD TESTED.
4. ASSEMBLE AND SOLDER PER ANSI/IPC-A-610B.

LOADING

5. SEE FORMING AND LOADING INSTRUCTIONS BELOW FOR INSTALLING SPECIFIED COMPONENTS.
6. CHECK THAT R52,53,55,56,58,60,63,64,66,67,68 & S1 ARE FLUSH TO BOARD.
7. CHECK THAT ALL CONNECTORS AND JACKS ARE FLUSH WITH PCB.
8. MAKE CERTAIN ALL POWER TRANSISTOR MOUNTING HOLES ARE PROPERLY ALIGNED FOR HEAT SINK.



HEAT SINK ASSEMBLY



APPLY THERMAL INSULATOR TAPE (105-0014-0), AND ALIGN WITH THIS EDGE.

NOT VALID UNLESS STAMP IS RED		gallien technology 2234 INDUSTRIAL DRIVE STOCKTON CA. 95206 VOICE: 209-234-7300 FAX: 209-234-8420	
APPROVALS		TITLE: 1001RB-II POWER AMP BD	
INIT	DATE	SIZE	DRAWING NO: 405-0260-A4
DESIGNED: R.A.G.	7/16/01	B	REV. A4
DRAWN: R.A.G.	12/10/03		PART NO: 145-0260-A4
ELEC:		COMPANY:	GALLIEN-KRUEGER
LAYER DESCRIPTION:		FILENAME: 5260A4	
SOLKSSBREESILKSCROMN		GERBER FILE NAME: sst01289ppbo	

This document is generated to address fuse failure due to excessive inrush current during turn on. It is applicable to 700RB-II power amp boards with part number 206-0250-A2 and 1001RB-II power amp boards with part number 206-0260-A2. To correct the problem, a thermistor with part number 022-3004-0 is soldered in series with the primary side of the transformer on 700RB-II power amp board or thermistor with part number 022-3008-0 on 1001RB-II power amp board.

The following is a guideline on how to modify the unit with the thermistor :

STEP I:

If the unit is a head version of 700RB-II or 1001RB-II remove the top cover then remove the power amp board from the chassis assembly.

If the unit is a combo version of 700RB-II and 1001RB-II, remove the chassis assembly from the cabinet, then remove the power amp board. Please see figure 1.



Chassis Assembly
figure 1

STEP II:

Locate J14 and J15 on the power amp board (figure 2a). Turn the power amp board over as per figure 2b.

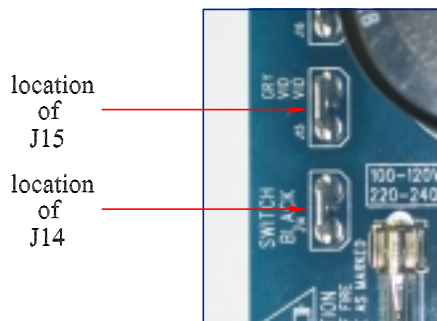


figure 2a



Power Amp Board
figure 2b

STEP III:

Locate J14 and J15 on the bottom/solder side of the board (figure 3a). Cut the trace between J14 and J15 as shown in figure 3b.

location of J14 and J15 on the bottom/solder side of the board

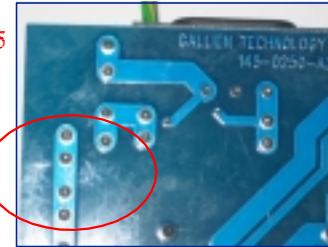


figure 3a

cut the trace here

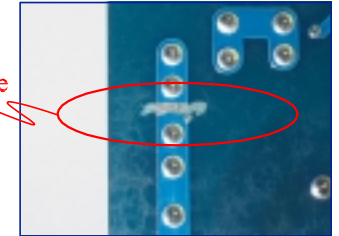


figure 3b

STEP IV:

Solder one lead of Thermistor (022-3004-0) to J14 and the other to J15 on the 700RB-II power amp board, or thermistor 022-3008-0 on 1001RB-II power amp board as shown in figure 4.

Note: Make sure that no portion or part of the thermistor is touching any terminal on the board except terminals J14 and J15.

Thermistor NTC 2.5 ohms, 6 amperes
P.N: 022-3004-0
for 700RB-II power amp board

or

Thermistor NTC 2 ohms, 8 amperes
P.N: 022-3008-0
for 1001RB-II power amp board

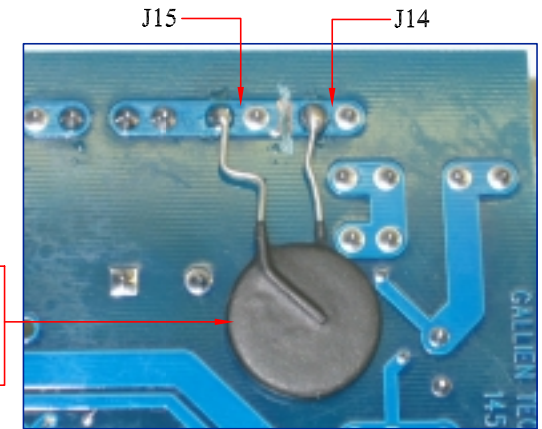


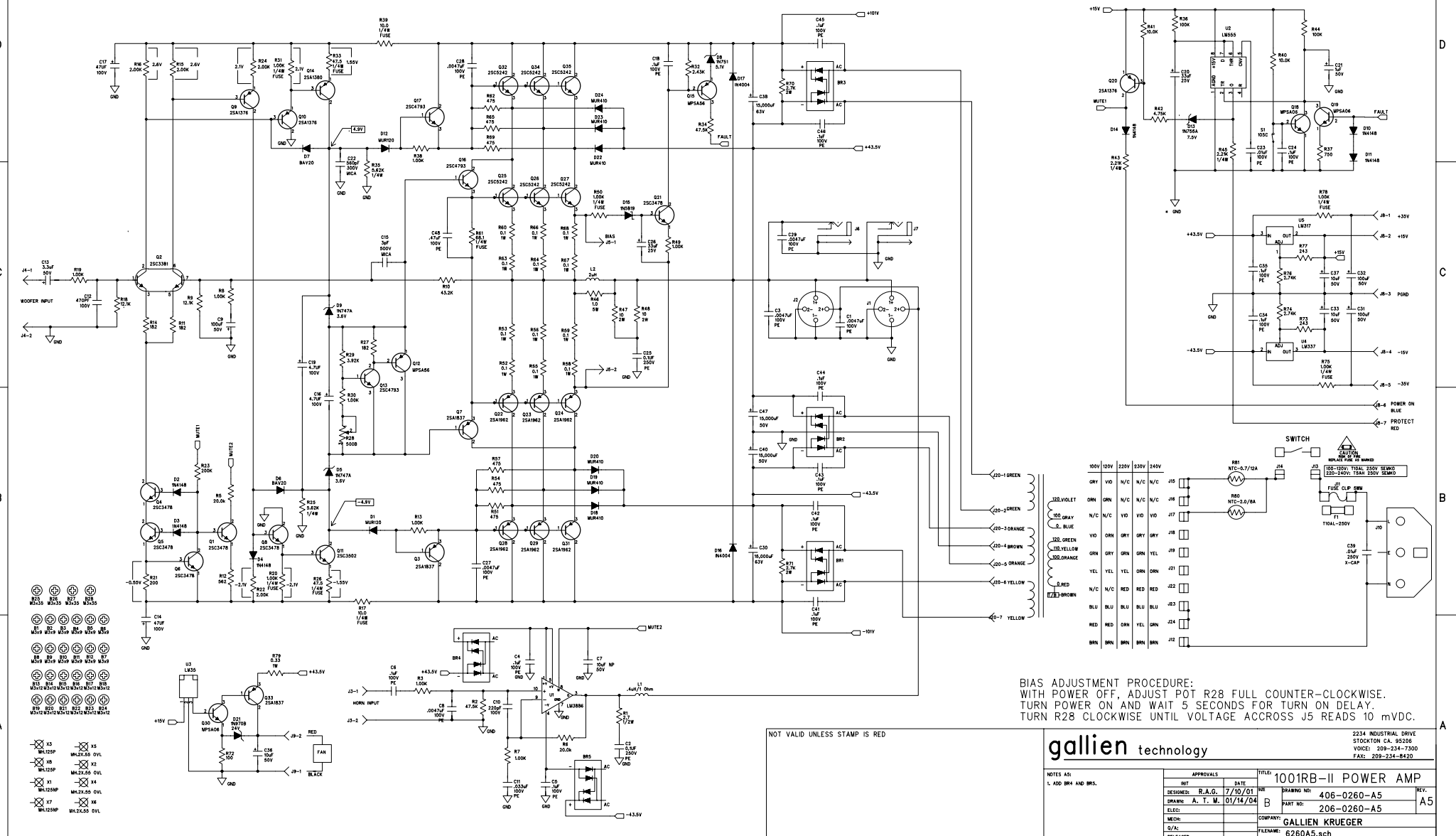
figure 4

<p>PROPRIETARY</p> <p>THE DRAWING CONTAINS INFORMATION WHICH IS PROPRIETARY TO GALLIEN TECHNOLOGY CORPORATION. DO NOT REPRODUCE IN ANY FORM OR DISTRIBUTE IN ANY FASHION WITHOUT THE EXPRESS WRITTEN PERMISSION OF GALLIEN TECHNOLOGY CORPORATION.</p>		
<p>APPROVAL</p>		
DEPT.	INITIAL	DATE
PRODUCTION	NOLLVAIDKZ	12/18/2003

<p>gallien technology 2234 INDUSTRIAL DRIVE STOCKTON, CA, 95207</p>	
<p>TITLE THERMISTOR MODIFICATION</p>	
FILE NAME	REV.
DOCUMENT NUMBER	SIZE
SCALE NOT TO SCALE	SHEET 1 OF 1

Customer Name:		Gallien-Krueger		Current Rev #:	A4	New ECO Rev #:	A5		
Model:		1001RB-II		Distribute To:		Page:	1	Of:	1
Assembly Description:		1001RB-II power amp board		Originator:	A. T. M.				
Assembly Numbers:		206-0260-A 145-0260-A		Approved by:					
				Effective Date:	1/14/2004				
Effective				Document Update		Date	Initials		
<input checked="" type="checkbox"/>	All in Process	<input checked="" type="checkbox"/>	Next Buy	<input type="checkbox"/>	Artwork				
<input type="checkbox"/>	All in Service	<input type="checkbox"/>	Next Production Run	<input type="checkbox"/>	Assembly Dwg.				
<input type="checkbox"/>	All in Stock	<input type="checkbox"/>		<input type="checkbox"/>	Board Artwork				
Beginning Serial Number:				<input checked="" type="checkbox"/>	BOM		RAG		
Reason For Change				<input type="checkbox"/>	Control Form				
Prevent tweeter amp failure due to power supply over voltage.				<input checked="" type="checkbox"/>	Costing		T.C.		
				<input type="checkbox"/>	Fab Drawing				
				<input type="checkbox"/>	Inspection Proc.				
				<input checked="" type="checkbox"/>	Part Master File		RAG		
				<input checked="" type="checkbox"/>	Schematic		RAG		
				<input type="checkbox"/>	Service Manual				
				<input type="checkbox"/>	Test Procedure				
				<input type="checkbox"/>					
				<input type="checkbox"/>					
Other Affected Assemblies									
302 Head, 303 Combos, All Voltages									
<input type="checkbox"/>	Continued on ECO Supplement Page								
Description Of Change				Distribution		Date	Initials		
Add bridge diode in series with +V and -V supply of U1, respectively. Bridge diodes are added by hand to the board. The artwork is not updated. Update board part number to 206-0260-A5.				<input type="checkbox"/>	Accounting				
				<input type="checkbox"/>	Assembly				
				<input type="checkbox"/>	Customer				
				<input checked="" type="checkbox"/>	Engineering				
				<input checked="" type="checkbox"/>	Incoming Q.C.				
				<input type="checkbox"/>	Planning				
				<input checked="" type="checkbox"/>	Production Eng.				
				<input checked="" type="checkbox"/>	Purchasing				
				<input type="checkbox"/>	Q.A.				
				<input type="checkbox"/>	Receiving				
				<input type="checkbox"/>	Service				
				<input type="checkbox"/>	Test				
				<input type="checkbox"/>	Vendor				
				<input type="checkbox"/>					
				<input type="checkbox"/>					
<input type="checkbox"/>	Continued on ECO Supplement Page								
<input type="checkbox"/>	Drawing(s) attached								
Part Number	Description	Parts Added		Parts Deleted					
		Qty	Ref. Designator	Qty	Ref. Designator				
023-0002-0	BRIDGE, 1.5A	2	BR4, BR5						

REVISION RECORD			
LTR	ECO NO.	APPROVED	DATE



BIAS ADJUSTMENT PROCEDURE:
 WITH POWER OFF, ADJUST POT R28 FULL COUNTER-CLOCKWISE.
 TURN POWER ON AND WAIT 5 SECONDS FOR TURN ON DELAY.
 TURN R28 CLOCKWISE UNTIL VOLTAGE ACROSS J5 READS 10 mVDC.

NOT VALID UNLESS STAMP IS RED

gallien technology

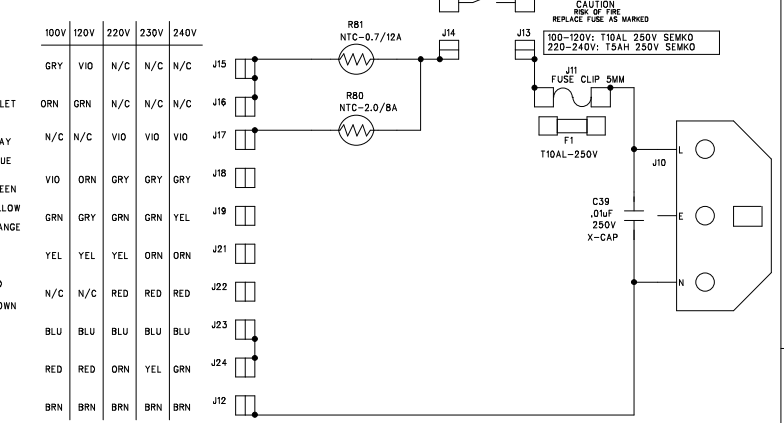
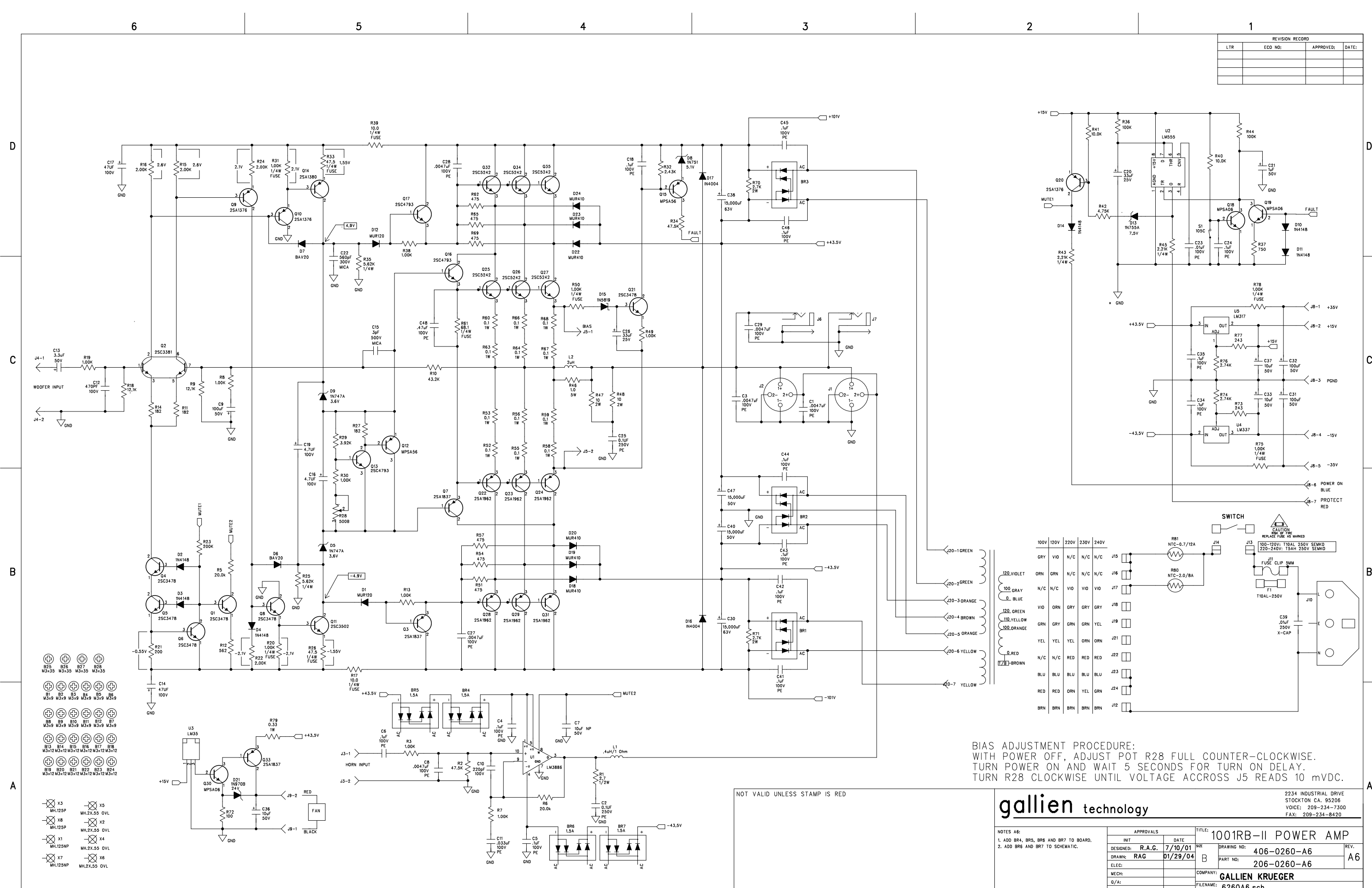
2234 INDUSTRIAL DRIVE
 STOCKTON CA. 95208
 VOICE: 209-234-7300
 FAX: 209-234-8420

NOTES AS: L ADD BR4 AND BR5.	APPROVALS	TITLE	REV.
	DATE	1001RB-II POWER AMP	
	DESIGNED: R.A.G. 7/10/01	DRAWING NO:	406-0260-A5
	DATE: A. T. M. 01/14/04	PART NO:	206-0260-A5
		COMPANY:	GALLIEN KRUEGER
		FILENAME:	6260A5.sch

- ⊕ R25 10K
- ⊕ R26 10K
- ⊕ R27 10K
- ⊕ R28 10K
- ⊕ R29 10K
- ⊕ R30 10K
- ⊕ R31 10K
- ⊕ R32 10K
- ⊕ R33 10K
- ⊕ R34 10K
- ⊕ R35 10K
- ⊕ R36 10K
- ⊕ R37 10K
- ⊕ R38 10K
- ⊕ R39 10K
- ⊕ R40 10K
- ⊕ R41 10K
- ⊕ R42 10K
- ⊕ R43 10K
- ⊕ R44 10K
- ⊕ R45 10K
- ⊕ R46 10K
- ⊕ R47 10K
- ⊕ R48 10K
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- ⊕ R68 10K
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- ⊕ R89 10K
- ⊕ R90 10K
- ⊕ R91 10K
- ⊕ R92 10K
- ⊕ R93 10K
- ⊕ R94 10K
- ⊕ R95 10K
- ⊕ R96 10K
- ⊕ R97 10K
- ⊕ R98 10K
- ⊕ R99 10K
- ⊕ R100 10K

Customer Name:	Gallien-Krueger		Current Rev #:	A5	New ECO Rev #:	A6	
Model:	1001RB-II		Distribute To:		Page:	1	Of: 1
Assembly Description:	1001RB-II power amp board		Originator:	RAG			
Assembly Numbers:	206-0260-A 145-0260-A		Approved by:				
			Effective Date:	1/30/2004			
Effective			Document Update		Date	Initials	
<input type="checkbox"/>	All in Process	<input checked="" type="checkbox"/>	Next Buy	<input type="checkbox"/>	Artwork		
<input type="checkbox"/>	All in Service	<input type="checkbox"/>	Next Production Run	<input type="checkbox"/>	Assembly Dwg.		
<input type="checkbox"/>	All in Stock	<input type="checkbox"/>		<input checked="" type="checkbox"/>	Board Artwork		RAG
Beginning Serial Number:				<input checked="" type="checkbox"/>	BOM		RAG
Reason For Change				<input type="checkbox"/>	Control Form		
				<input checked="" type="checkbox"/>	Costing		T.C.
Prevent tweeter amp failure due to power supply over voltage.				<input type="checkbox"/>	Fab Drawing		
Improvement over A5, reducing horn supply a total of 6V, 3V more than A5.				<input type="checkbox"/>	Inspection Proc.		
Update board artwork to include both A5 and A6.				<input checked="" type="checkbox"/>	Part Master File		RAG
				<input checked="" type="checkbox"/>	Schematic		RAG
				<input type="checkbox"/>	Service Manual		
				<input type="checkbox"/>	Test Procedure		
				<input type="checkbox"/>			
				<input type="checkbox"/>			
Other Affected Assemblies							
302 Head, 303 Combos, All Voltages							
<input type="checkbox"/>	Continued on ECO Supplement Page						
Description Of Change			Distribution		Date	Initials	
Add two bridge diodes in series with +V and -V supply of U1, respectively.			<input type="checkbox"/>	Accounting			
			<input type="checkbox"/>	Assembly			
			<input type="checkbox"/>	Customer			
Update board part number to 206-0260-A6.			<input checked="" type="checkbox"/>	Engineering			
			<input checked="" type="checkbox"/>	Incoming Q.C.			
Adds a total of four bridge diodes to board artwork, and two more to the BOM.			<input type="checkbox"/>	Planning			
			<input checked="" type="checkbox"/>	Production Eng.			
			<input checked="" type="checkbox"/>	Purchasing			
			<input type="checkbox"/>	Q.A.			
			<input type="checkbox"/>	Receiving			
			<input type="checkbox"/>	Service			
			<input type="checkbox"/>	Test			
			<input type="checkbox"/>	Vendor			
			<input type="checkbox"/>				
			<input type="checkbox"/>				
<input type="checkbox"/>	Continued on ECO Supplement Page						
<input type="checkbox"/>	Drawing(s) attached						
Part Number	Description	Parts Added		Parts Deleted			
		Qty	Ref. Designator	Qty	Ref. Designator		
023-0002-0	BRIDGE, 1.5A	2	BR6,7				

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



BIAS ADJUSTMENT PROCEDURE:
 WITH POWER OFF, ADJUST POT R28 FULL COUNTER-CLOCKWISE.
 TURN POWER ON AND WAIT 5 SECONDS FOR TURN ON DELAY.
 TURN R28 CLOCKWISE UNTIL VOLTAGE ACROSS J5 READS 10 mVDC.

NOT VALID UNLESS STAMP IS RED

gallien technology

2234 INDUSTRIAL DRIVE
 STOCKTON CA. 95206
 VOICE: 209-234-7300
 FAX: 209-234-8420

TITLE: 1001RB-II POWER AMP

DESIGNED: R.A.G. 7/10/01
 DRAWN: RAG 01/29/04

DRAWING NO: 406-0260-A6
 PART NO: 206-0260-A6

COMPANY: GALLIEN KRUEGER
 FILENAME: 6260A6.sch

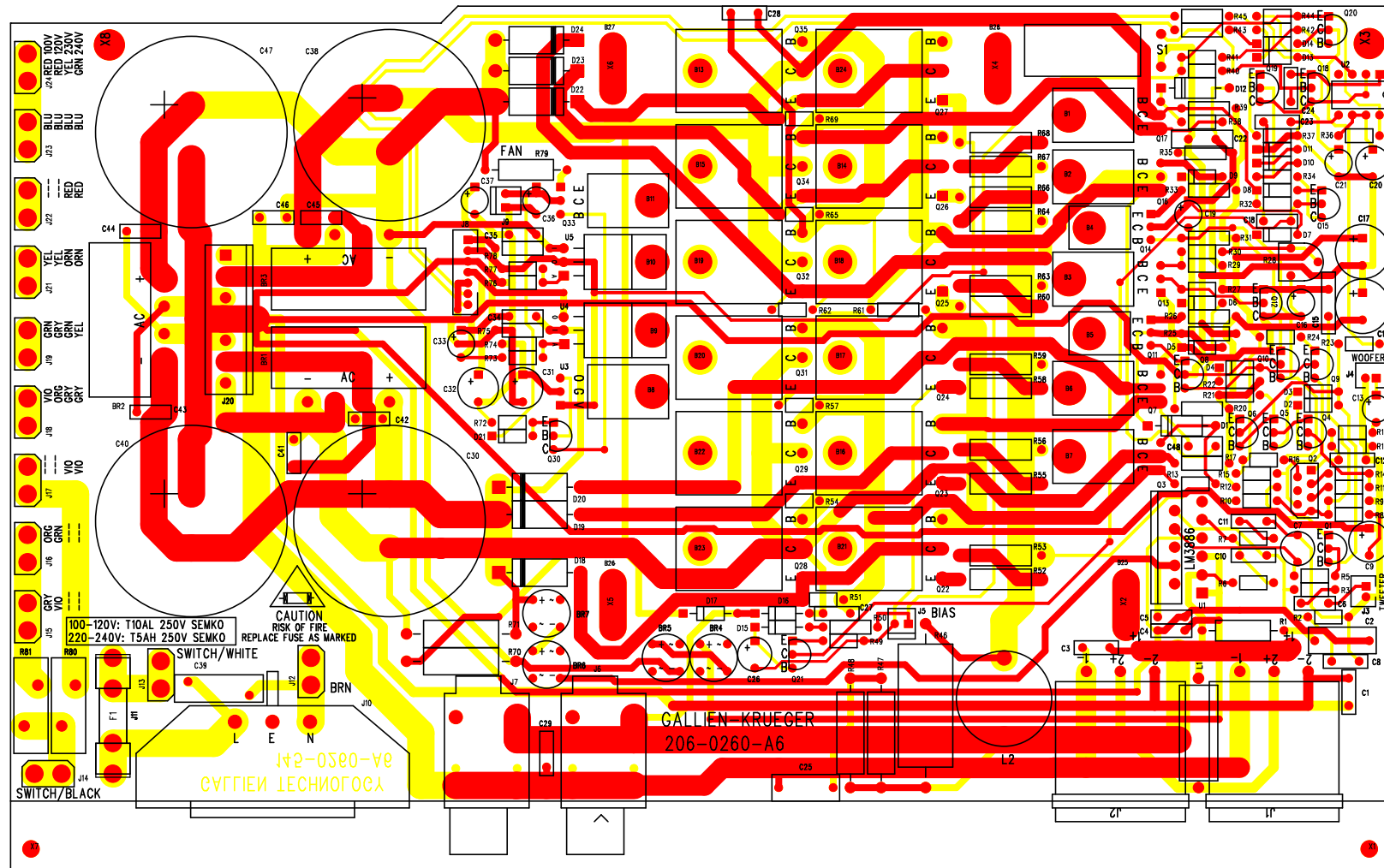
REV. A6

- B25 M3x35
- B26 M3x35
- B27 M3x35
- B28 M3x35
- B1 M3x9
- B2 M3x9
- B3 M3x9
- B4 M3x9
- B5 M3x9
- B6 M3x9
- B7 M3x9
- B8 M3x9
- B9 M3x9
- B10 M3x9
- B11 M3x9
- B12 M3x9
- B13 M3x12
- B14 M3x12
- B15 M3x12
- B16 M3x12
- B17 M3x12
- B18 M3x12
- B19 M3x12
- B20 M3x12
- B21 M3x12
- B22 M3x12
- B23 M3x12
- B24 M3x12
- X3 MH.125P
- X4 MH.2X.55 OVL
- X5 MH.125P
- X6 MH.2X.55 OVL
- X7 MH.125NP
- X8 MH.2X.55 OVL
- X9 MH.125NP
- X10 MH.2X.55 OVL
- X11 MH.125NP
- X12 MH.2X.55 OVL
- X13 MH.125NP
- X14 MH.2X.55 OVL
- X15 MH.125NP
- X16 MH.2X.55 OVL
- X17 MH.125NP
- X18 MH.2X.55 OVL
- X19 MH.125NP
- X20 MH.2X.55 OVL
- X21 MH.125NP
- X22 MH.2X.55 OVL
- X23 MH.125NP
- X24 MH.2X.55 OVL
- X25 MH.125NP
- X26 MH.2X.55 OVL
- X27 MH.125NP
- X28 MH.2X.55 OVL
- X29 MH.125NP
- X30 MH.2X.55 OVL
- X31 MH.125NP
- X32 MH.2X.55 OVL
- X33 MH.125NP
- X34 MH.2X.55 OVL
- X35 MH.125NP
- X36 MH.2X.55 OVL
- X37 MH.125NP
- X38 MH.2X.55 OVL
- X39 MH.125NP
- X40 MH.2X.55 OVL
- X41 MH.125NP
- X42 MH.2X.55 OVL
- X43 MH.125NP
- X44 MH.2X.55 OVL
- X45 MH.125NP
- X46 MH.2X.55 OVL
- X47 MH.125NP
- X48 MH.2X.55 OVL
- X49 MH.125NP
- X50 MH.2X.55 OVL

GALLIEN-KRUEGER

1001RB-II Power Amp 206-0260-A6

Part No.	Reference	Description	Manufacturer	Mfr. Part No.
001-2060-0	U2	LM555, TIMER	NATIONAL	LM555CN
001-3886-0	U1	LM3886 ,68W AUDIO POWER AMP	NATIONAL	LM3886T
010-0000-0	Q2	2SC3381BL,NPNX2,80V,100MA,2-10M1B	TOSHIBA	2SC3281BL
010-0001-0	Q1 Q4-6 Q8 Q21	2SC3478, NPN,180V,100MA,TO-92	NEC	2SC3478-K
010-0003-0	Q11	2SC3502-F,NPN,200V,100MA,TO-126	TOSHIBA	2SC3502
010-0012-0	Q18-19 Q30	MPSA06, NPN,80V,500MA,TO-92	MOTOROLA	MPS-A06
010-0035-0	U3	LM35DT, TEMPERATURE SENSOR, TO-220	NATIONAL	LM35DT
010-1002-0	Q9-10 Q20	2SA1376, PNP,180V,100MA,TO-92	NEC	2SA1376-K
010-1003-0	Q14	2SA1380-F,PNP,200V,100MA,TO-126	SANYO/TOSHIBA	2SA1380-F/E
010-1013-0	Q12 Q15	MPSA56 PNP 80V 500MA TO-92	MOTOROLA	MPS-A56
012-0002-0	Q13 Q16-17	2SC4793,NPN,200V,1.5A,2-10R1A	TOSHIBA	2SC4793
012-0003-0	Q25-27 Q32 Q34-35	2SC5242,NPN,230V,15A,2-16C1A	TOSHIBA	2SC5242-O
012-1002-0	Q3 Q7 Q33	2SA1837,PNP,200V,1.5A,2-10R1A	TOSHIBA	2SA1837
012-1003-0	Q22-24 Q28-29 Q31	2SA1962,PNP,230V,15A,2-16C1A	TOSHIBA	2SA1962
014-0070-0	U5	LM317	NATIONAL	LM317
014-1072-0	U4	LM337	NATIONAL	LM337
020-0004-0	D13	1N755A, ZENER,7.5V,500MW ,D035	TAITRON	1N755A
020-0036-0	D5 D9	1N747A, ZENER, 3.6V, 5%, 400MW,	TAITRON	1N747A
020-0050-0	D8	1N751, ZENER,5.1V,10%,400MW,DO-35	NATIONAL	1N751
020-0240-0	D21	1N970B, ZENER, 24V, 5%, 500MW,	TAITRON	1N970B
020-1000-0	D2-4 D10-11 D14	1N4148, RECT-FAST, 200MA, 100V	MOTOROLA	1N4148
020-1022-0	D6-7	BAV20, RECT, 200V, DO-35	NATIONAL	BAV20
020-1104-0	D15	SHOTTKY, 1A, 40V, 10NS, DO-41	MOTOROLA	1N5819
020-1120-0	D1 D12	MUR120,RECT-FAST, 1A, 200V, 25NS,	MOTOROLA	MUR120
020-1122-0	D18-20 D22-24	MUR410, RECT-FAST, 4A, 100V	MOTOROLA	MUR410
020-2106-0	D16-17	1N4004,RECT,1A,400V,DO-41	TAITRON	1N4004
022-3000-0	R81	THERMISTOR, 0.7 OHM, 12A	UEI	N20SP0R7M
022-3008-0	R80	THERMISTOR, 2 OHM, 8A	UEI	N20SP002M
023-0002-0	BR4,5,6,7	BRIDGE, 1.5A, 200V, PC	DIODES INC	BR155
023-0112-0	BR1-3	BRIDGE, 25A, 200V, VERT, PC,	CHENG-YI	MP25-02S
031-1336-0	C20 C26	CAP,ELEC,RAD,336,20%,25V	UNITED CHEMI-CON	SRG25VB33RM5X7LL
031-2105-0	C21	CAP,ELEC,RAD, 105, 20%, 50V	UNITED CHEMI-CON	C440C105M5U5CA
031-2106-0	C33 C36-37	CAP,ELEC,RAD, 106, 20%, 50V	UNITED CHEMI-CON	SMG50VB10RM5X11LL
031-2106-A	C7	CAP,ELEC,RAD, 106, 20%, 50VNP	UNITED CHEMI-CON	SMEBP50VB10RM6X11LL
031-2107-0	C9 C31-32	CAP,ELEC,RAD,107, 20%, 50V	UNITED CHEMI-CON	SMG50VB101M8X11LL
031-2159-0	C40,47	CAP, ELEC, RAD, 159, 20%, 50V	UNITED CHEMI-CON	SMH50VN153M35X45T2
031-2335-0	C13	CAP,ELEC,RAD,335,20%,50V	UNITED CHEMI-CON	SMG50VB3R3M5X11LL
031-3159-0	C30,38	CAP, ELEC, RAD, 159, 20%, 63V	UNITED CHEMI-CON	SMH63VN153M35X63T2
031-4475-0	C16 C19	CAP,EL-R,4.7UF/100V, M	UNITED CHEMI-CON	SMG100VB4R7M5X11LL
031-4476-0	C14 C17	CAP,ELEC,RAD,476,-10%+50%,100V	UNITED CHEMI-CON	SMG100VB47RM10X12LL
032-4103-0	C23	CAP,PE,103,5%,100V,	PANASONIC	ECQV1103JM
032-4104-0	C4-6,18,24,34,35,41-46	CAP,PE,104,5%,100V,	PANASONIC	ECQV1104JM
032-4333-0	C11	CAP,PE,333,5%,100V,	PANASONIC	ECQV1333JM
032-4472-0	C1 C3 C8 C27-29	CAP,PE,472,5%,100V,	PANASONIC	ECQB1472JF
032-4474-0	C48	CAP,PE,474,5%,100V,	PANASONIC	ECQV1474JM
032-7104-0	C2 C25	CAP,PE,104,10%, 250V	ILLINOIS CAPICITOR	104MSR250K
034-4221-0	C10	CAP,MCR,220pF,5%,100V,	TAITRON	TMRS221J100NPOB
034-4471-0	C12	CAP,MCR,470pF,5%,100V,	TAITRON	TMRS471J100NPOB
034-7103-0	C39	CAP, CERMIC DISK, 103, 10%, X-250V	PANASONIC	ECK-DRS103ZV
035-8030-0	C15	CAP MICA AXIAL , 3pF, 10%, 500V	CORNELL	CD10CD030D03
035-8561-0	C22	CAP MICA RADIAL, 561, 5%, 300V	CORNELL	CD15FC561J103
052-2212-0	R43 R45	RES,METAL FILM,2.21k,1/4W,1%	ECI	M2F1AK002.21
052-5622-0	R25 R35	RES,METAL FILM,5.62K,1/4W,1%	ECI	M5F1AK005.62
053-0270-0	R1	RES ,CARBON FILM,2.7 ,1/2W,5%	ECI	R5J3AJ002.70
054-.100-0	R52-53 R55-56 R58-60 R63-64 R66-68	RES, METAL OXIDE, 0.1 Ohm, 1W, 5%	ECI	MO10J3AJ000.10
054-.330-0	R79	RES, METAL OXIDE, 0.33 OHM, 1W, 5%	ECI	MO10J3AJ000.33
055-0101-0	R47-48	RES, METAL OXIDE, 10 OHM, 2W, 5%	ECI	MOM20J3AJ010.00
055-2702-0	R70-71	RES, METAL OXIDE, 2.7K OHM, 2W, 5%	ECI	MOM20J3AK002.70
056-0100-0	R46	RES, CERAMIC WW, 1.0 OHM, 5W, 10%	ECI	WWC50J3AJ001.00
059-1000-0	R17 R39	RES,MF,FUSE,10.0 OHM, 1/4W,1%	JUKN.OHM	FR25-10.0
059-1002-0	R20 R31 R50 R75 R78	RES,MF,FUSE,1.00K,1/4W,1%	JUKN.OHM	FR25-1.00K
059-4750-0	R26 R33	RES,MF,FUSE,47.5 OHM, 1/4W,1%	JUKN.OHM	FR25-47.5
059-6810-0	R61	RES,MF,FUSE,68.1 OHM, 1/4W,1%	JUKN.OHM	FR25-68.1
060-1001-0	R72	RES, METAL FILM, 100 OHM, 1/8W, 1%	ECI	M1F1AJ100.00
060-1002-0	R3,7,8,13,19,30,38,49	RES,METAL FILM, 1.00K, 1/8W, 1%	ECI	M1F1AK001.00
060-1003-0	R40-41	RES,METAL FILM, 10.0K, 1/8W,1%	ECI	M1F1AK010.00
060-1004-0	R36 R44	RES,METAL FILM, 100K, 1/8W, 1%	ECI	M1F1AK100.00



PCB WORK INSTRUCTIONS

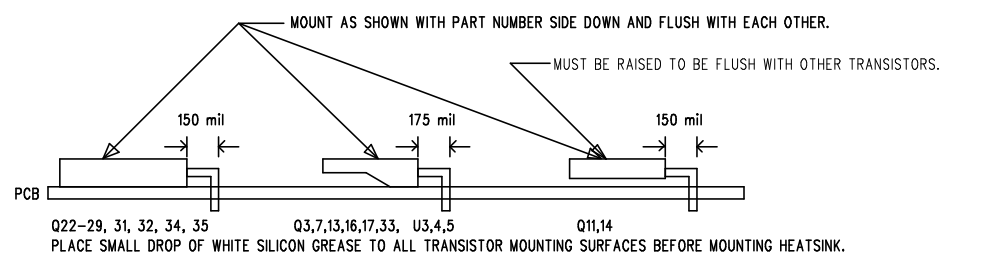
DWG 420-0260-A6

NOTES:

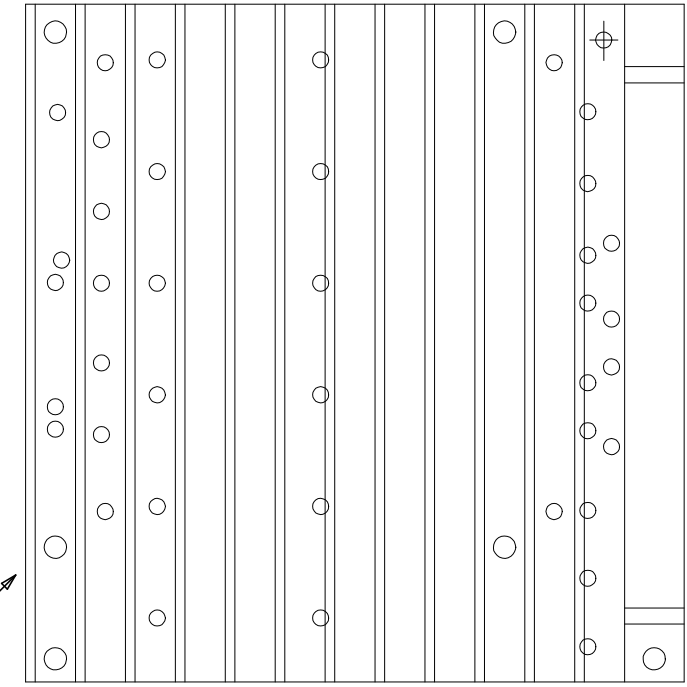
- UNLESS OTHERWISE SPECIFIED:
1. SQUARE PADS ON THRU HOLE PARTS (ie: CONNECTORS, DIPS, SIPS, LEADS) DENOTE PIN 1.
 2. ALL BOARDS REQUIRE A COMPLETE AND THOROUGH VISUAL INSPECTION.
 3. ALL BOARDS MUST BE BARE BOARD TESTED.
 4. ASSEMBLE AND SOLDER PER ANSI/IPC-A-610B.

LOADING

5. SEE FORMING AND LOADING INSTRUCTIONS BELOW FOR INSTALLING SPECIFIED COMPONENTS.
6. CHECK THAT R52,53,55,56,58,60,63,64,66,67,68 & S1 ARE FLUSH TO BOARD.
7. CHECK THAT ALL CONNECTORS AND JACKS ARE FLUSH WITH PCB.
8. MAKE CERTAIN ALL POWER TRANSISTOR MOUNTING HOLES ARE PROPERLY ALIGNED FOR HEAT SINK.



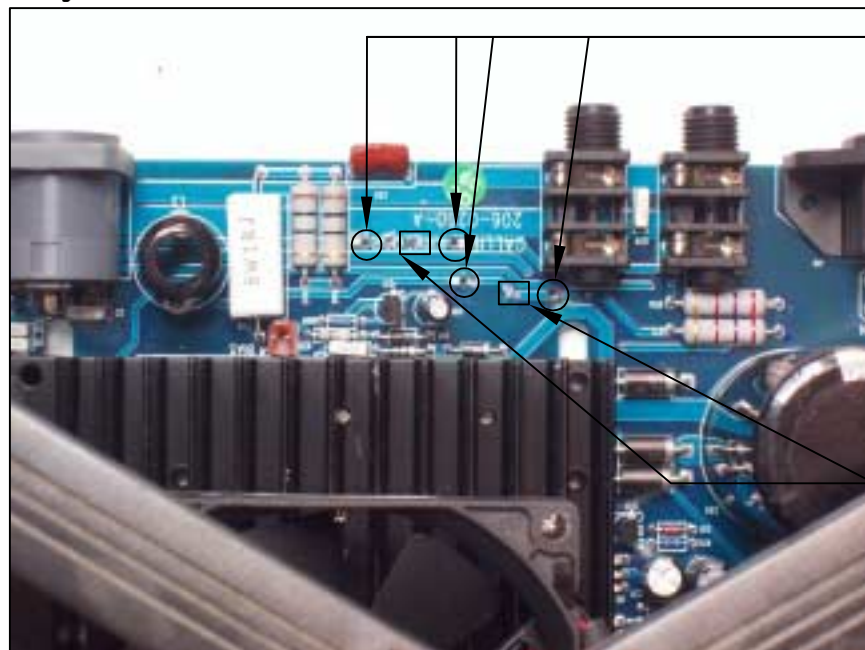
HEAT SINK ASSEMBLY



NOT VALID UNLESS STAMP IS RED		gallien technology 2234 INDUSTRIAL DRIVE STOCKTON CA. 95206 VOICE: 209-234-7300 FAX: 209-234-8420	
APPROVALS INIT DATE DESIGNED: R.A.G. 7/16/01 DRAWN: R.A.G. 1/29/04 ELEC:		TITLE: 1001RB-II POWER AMP BD SIZE: B DRAWING NO: 405-0260-A6 PART NO: 145-0260-A6 REV. A6	
LAYER DESCRIPTION: SDRSSBREESILKSCROWN		COMPANY: GALLIEN-KRUEGER GERBER FILE NAME: sst01289ppbo FILENAME: 5260A6	

1001RB-II POWER AMP BOARD REWORK INSTRUCTION PER ECO #A6

Fig 1.



Drill two holes (1/16" bit),
3/4" apart between each cut
trace.

Cut the trace here

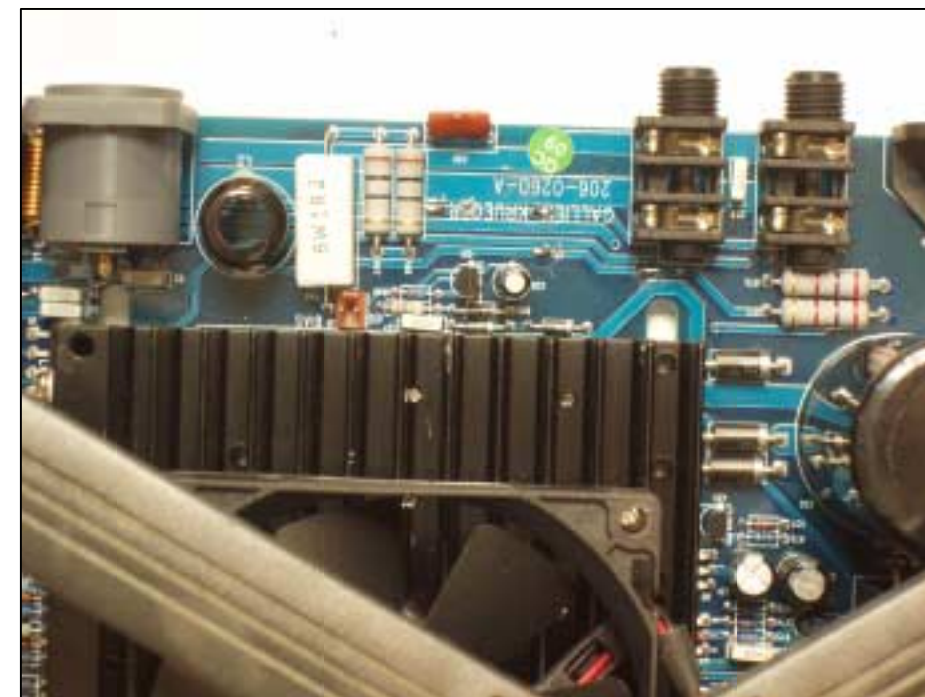


Fig 4. Solder the diodes on
the drilled holes as shown.



Fig 2. Connect two RB155 (p/n: 023-0002-0)
bridge diode by soldering the (+) pin to
the (-) pin. The AC pins must be cut.
Make two each.

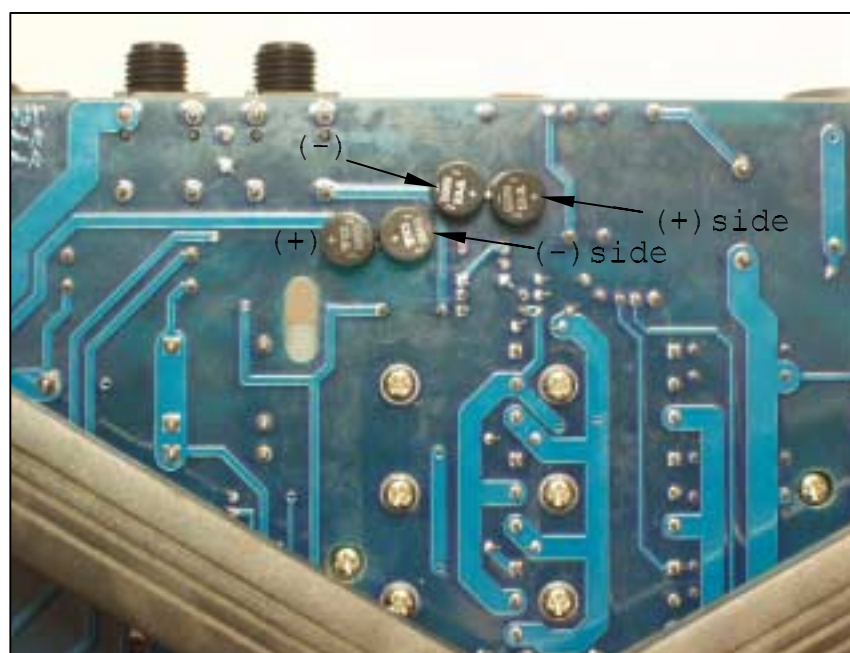


Fig 3. Flip-over the board and
insert the bridge diode on the
drilled holes. Correct polarity must
be observed properly with the (+)
and (-) pins.

QTY PER ASSY	PART NUMBER	DESCRIPTION	DESIGNATION(S)	ITEM NO.
PROPRIETARY				
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gallien technology		2234 INDUSTRIAL DRIVE STOCKTON, CA 95206		
APPROVALS		TITLE: 1001RB-II REWORK INSTRUCTION		
UNLESS OTHERWISE INDICATED DIMENSIONS SHOWN ARE IN INCHES		SIZE: B		
TOLERANCES		DRAWING NUMBER:		
FRACTION ±		PART NUMBER:		
ANGLES ±		FILENAME:		
.XX ± 0.01		SCALE: NOT TO SCALE		
.XXX ± 0.005		SHEET 1 OF 1		
MATERIAL: (SEE NOTE 1)		REVISION:		
FINISH: (SEE NOTE 1)		RELEASED:		