


ASSEMBLY

- NOTES  
 1. CAPACITORS WITH VALUES OF .001uf, .01uf, .1uf AND 470pf SHALL BE X7R TYPE.

SHEET ONE REPRESENTS -01 AND -07

- NOTES:  
 1. GOOP IN ACCORDANCE WITH PRODUCTION S.O.P.

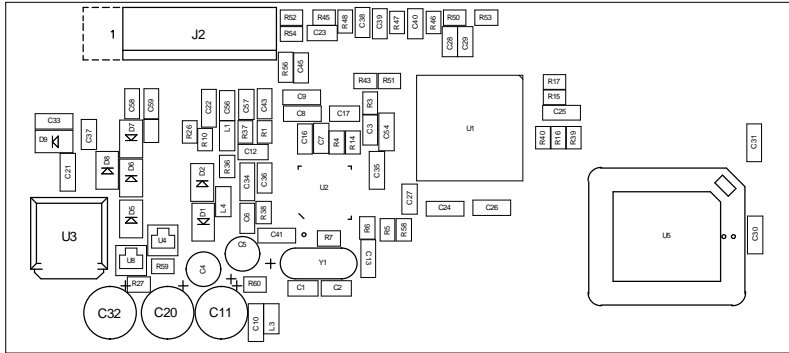
CAUTION:  
 THIS ASSEMBLY DRAWING IS PROVIDED FOR USE BY QUALIFIED PERSONNEL.  
 TO AVOID RISK OF ELECTRIC SHOCK, REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.  
 DO NOT PERFORM ANY SERVICING BEYOND THAT EXPLAINED IN THE OPERATING INSTRUCTIONS.

0	4-28-00	CONTROL ISSUE				RLB	
A		INITIAL ISSUE					
REV	Date	DESCRIPTION	Ento(Conto)	ChgtBy	Appvd by	Date	
THE INFORMATION CONTAINED ON THIS DRAWING IS PROPRIETARY TO ST. LOUIS MUSIC, INC.							
Signatures:			Date:		 11880 Borman Drive, St. Louis, MO 63146		
Drawn: RLB		10-6-99					
Checked:				First Used On:			
Released:							
Plt Date: Fri Apr 28, 2000		Drawing Size: A		Drawing Title: PWA, DSP EFFECTS BD			
Plt Time: 09:06:59		Drawing Type: ASSEMBLY		Drawing Number: 07-886-XX			
Tolerance:		Class Code: NONE		Sheet 1 of 3			

A B C D

1

1



2

2

ASSEMBLY 06B886-02/03/04/08

- NOTES  
 1. CAPACITORS WITH VALUES OF .001uf, .01uf, .1uf AND 470pf SHALL BE X7R TYPE.

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3

SHEET TWO REPRESENTS -02, 03, 04, AND -08

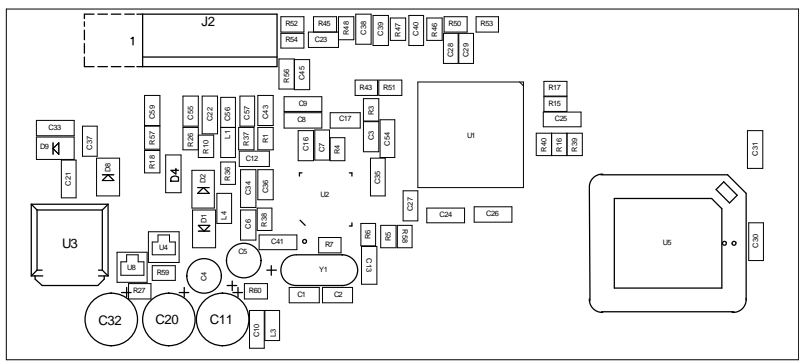
4

4

NOTES:  
 1. GOOP IN ACCORDANCE WITH PRODUCTION S.O.P.  
 CAUTION:  
 THIS ASSEMBLY DRAWING IS PROVIDED FOR USE BY QUALIFIED PERSONNEL.  
 TO AVOID RISK OF ELECTRIC SHOCK, REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.  
 DO NOT PERFORM ANY SERVICING BEYOND THAT EXPLAINED IN THE OPERATING INSTRUCTIONS.

0	4-28-00	CONTROL ISSUE				RLB	
A		INITIAL ISSUE					
REV	Date	DESCRIPTION	Ent'd(Ent'd)	Chg'd By	App'd by	Date	
THE INFORMATION CONTAINED ON THIS DRAWING IS PROPRIETARY TO ST. LOUIS BOMBING INC.							
Signatures:			Date:		 11880 Borman Drive, St. Louis, MO 63146		
Drawn: RLB		10-6-99					
Checked:				First Used On:			
Released:							
Plot Date: Fri Apr 28, 2000		Drawing Size: A		Drawing Title: PWA, DSP EFFECTS BD			
Plot Time: 09:15:25		Drawing Type: ASSEMBLY		Drawing Number: 07-886-XX			
Tolerance:		Class Code: NONE		Sheet 2 of 3			

A B C D



ASSEMBLY

06B886-05/06

NOTES  
 1. CAPACITORS WITH VALUES OF .001uf,  
 .01uf, .1uf AND 470pf SHALL BE X7R TYPE.

SHEET THREE REPRESENTS -05, 06, AND -09

REV	Date	DESCRIPTION	Ent'd(Enr'd)	Chg'd By	App'd by	Date
0	4-28-00	CONTROL ISSUE			RLB	
A		INITIAL ISSUE				

THE INFORMATION CONTAINED ON THIS DRAWING IS PROPRIETARY TO ST. LOUIS MISC. INC.

Signatures:		Date:	 11880 Borman Drive, St. Louis, MO 63146
Drawn:	RLB	10-6-99	
Checked:			First Used On:
Released:			
Plot Date:	Fri Apr 28, 2000	Drawing Size:	A
Plot Time:	09:21:11	Drawing Type:	ASSEMBLY
Tolerance:		Class Code:	NONE
		Sheet:	3 of 3
Drawing Title:			PWA, DSP EFFECTS BD
Drawing Number:			07-886-XX

NOTES:  
 1. GOOP IN ACCORDANCE WITH PRODUCTION S.O.P.  
 CAUTION:  
 THIS ASSEMBLY DRAWING IS PROVIDED FOR USE BY QUALIFIED PERSONNEL.  
 TO AVOID RISK OF ELECTRIC SHOCK, REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.  
 DO NOT PERFORM ANY SERVICING BEYOND THAT EXPLAINED IN THE OPERATING INSTRUCTIONS.

2-16-2000

REV.1 CHANGE R59 TO 270 ohms FROM 10K, C32 CHANGES FROM 10uF/50V TO  
100uF/35V 20% EL

2-16-2000

REV. 2 R55, R56 PACKAGE SIZE CHANGE FROM 1206 TO 0805

4-4-2000

REV. 3 DELETE C47 .001uF AND R44 220 ohm

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Count	RefDes	Part Number	Description
1	PWB1	06B886-01B	16 BIT EFFECTS BD
11	C23	10S102-12	.001 uF SMT 0805 50V 10% X7R
	C37		
	C38		
	C39		
	C40		
	C46		
	C51		
	C52		
	C53		
	C56		
	C57		
7	C27	10S103-12	0.01 uF SMT 0805 50V 10% X7R
	C28		
	C29		
	C36		
	C43		
	C44		
	C45		
15	C8	10S104-22	0.1 uF SMT 1206 50V 10% X7R
	C10		
	C13		
	C21		
	C22		
	C24		
	C25		
	C26		
	C30		
	C31		
	C33		
	C34		
	C35		
	C41		
	C54		
2	C1	10S220-11	22 pF SMT 0805 50V 10% X7R
	C2		
2	C6	10S271-11	270 pF SMT 0805 50V 10% X7R
	C7		
1	C3	10S470-11	47 pF SMT 0805 50V 10% X7R
1	C9	10S473-22	0.047 uF SMT 1206 50V 10% X7R
2	C12	10S474-12	0.47 uF SMT Y5V 0805 16V 10% X7R
	C16		
2	C4	12R105-50	1 uF 50V 20% EL
	C5		
QTY CHANGE FROM 3 TO 2, C32 CHANGES TO A 100uF/35V 20% EL			
3	C11	12R106-10	10 uF 50V 20% EL
	C20		
	C32		
1	J2	17-100-10	AMP 640456-4
1	J3	17-100-10	AMP 640456-6
1	U7	17S460-32	PCS-032SMU-12 PLCC-3
4	D1	21S914-01	1N914/1N4148 75V M-MELF 1206
	D2		

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	D8		
	D9		
1	U5	37S003-01	SST 29EE512-90-4C-NH (PROGRAMMED)
1	Y1	37-900-18	RALTRON A-16.000-S 1
2	U8	37S181-03	ADM809t LOGIC HIGH RE
	U4	37S181-03	
1	U1	37S186-01	ADSP-2186KST-133
1	U3	37S705-01	MC7805CD2T D2 PACK +
1	U6	37S872-01	ALLIANCE AS7C256-20J
1	U2	37S881-01	AD1881 STEREO CODEC
1	R4	76S010-61	1 ohm SMT 0603 PKG
1	R38	76S047-61	4.7 ohm SMT 0603 PKG
REV. 2 R55,R56 PACKAGE SIZE IS A 0805			
2	R55	76S100-21	10 ohm SMT 0805 PKG
	R56		
4	R22	76S101-61	100 ohm SMT 0603 PKG
	R23		
	R24		
	R25		
2	R1	76S102-61	1K ohm SMT 0603 PKG
	R37		
QTY CHANGE FROM 3 TO 2. R59 BECOMES A 270 ohm RESISTOR REV.1			
2	R7	76S103-61	10K ohm SMT 0603 PKG
	R58		
14	R15	76S104-61	100K ohm SMT 0603 PKG
	R16		
	R17		
	R32		
	R33		
	R34		
	R35		
	R39		
	R40		
	R50		
	R51		
	R52		
	R53		
	R54		
4	R43	76S221-61	220 ohm SMT 0603 PKG
	R45		
	R46		
	R47		
	R48		
REV. 1 R59 CHANGES FROM 10K TO 270 ohms			
1	R59	76S271-61	270 ohm SMT 0603 PKG
3	R3	76S470-61	47 ohm SMT 0603 PKG
	R5		
	R6		
2	R27	76S472-61	4.7K ohm SMT 0603 PKG
	R60		
1	R10	76S473-61	47K ohm SMT 0603 PKG
1	R36	76S474-61	470K ohm SMT 0603 PKG
3	L1	94S001-01	0.5A, .3ohm, 600 OHMS/100MHz
	L3		
	L4		

ALL RESISTORS ARE 5% UNLESS OTHER SPECIFIED!

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2-16-2000

REV. 1 CHANGE R59 TO 270 ohms FROM 10K, C32 CHANGES FROM 10uF/50V TO 100uF/35V 20% EL

ADD D2 TO PARTS LIST

2-16-2000

REV. 2 CHANGE C17 PACKAGE SIZE TO 0805, R56 CHANGE PACKAGE SIZE TO 0805

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Count	RefDes	Part Number	Description
1	PWB1	06B886-01B	16 BIT EFFECTS BD
9	C23	10S102-12	0.001 uF SMT 0805 50V 10% X7R
	C37		
	C38		
	C39		
	C40		
	C56		
	C57		
	C58		
	C59		
6	C27	10S103-12	0.01 uF SMT 0805 50V 10% X7R
	C28		
	C29		
	C36		
	C43		
	C45		
1	R14	10S103-02	0.01 uF SMT 0603 50V 10% X7R
15	C8	10S104-22	0.1 uF SMT 1206 50V 10% X7R
	C10		
	C13		
	C21		
	C22		
	C24		
	C25		
	C26		
	C30		
	C31		
	C33		
	C34		
	C35		
	C41		
	C54		
2	C1	10S220-11	22 pF SMT 0805 50V 10% X7R
	C2		
2	C6	10S271-11	270 pF SMT 0805 50V 10% X7R
	C7		
1	C3	10S470-11	47 pF SMT 0805 50V 10% X7R
1	C9	10S473-22	0.047 uF SMT 1206 50V 10% X7R
2	C12	10S474-12	0.47 uF SMT 0805 16V 10% X7R
	C16		
2	C4	12R105-50	1 uF 50V 20% EL
	C5		
3	C11	12R106-10	10 uF 50V 20% EL
	C20		
	C32		
1	J2	17-100-10	MOLEX 52011-0810
1	U7	17S460-32	PCS-032SMU-12 PLCC-3
7	D1	21S914-01	1N914/1N4148 75V M-MELF 1206
REV. 1 ADD D2			
	D2		
	D5		
	D6		
	D7		
	D8		
	D9		

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1	U5	37S004-01	SST 29EE512-90-4C-NH(PROGRAMMED)
1	Y1	37-900-18	RALTRON A-16.000-S 1
2	U8	37S181-02	ADM809T LOGIC HIGH RE
	U4		
1	U1	37S186-01	ADSP-2186KST-133
1	U3	37S705-01	MC7805CD2T D2 PACK +
1	U2	37S881-01	AD1881 STEREO CODEC
REV. 2 CHANGE PACKAGE OF C17 TO A 0805			
1	C17	76S010-21	1 ohm SMT 0805 PKG
1	R4	76S010-61	1 ohm SMT 0603 PKG
1	R38	76S047-61	4.7 ohm SMT 0603 PKG
REV. 2 CHANGE PACKAGE OF R56 TO 0805			
1	R56	76S100-21	10 ohm SMT 0805 PKG
1	R57	76S101-61	100 ohm SMT 0603 PKG
3	R1	76S102-61	1K ohm SMT 0603 PKG
	R26		
	R37		
QTY CHANGE FROM 3 TO 2, R59 BECOMES A 270 ohm RESISTOR REV.1			
2	R7	76S103-61	10K ohm SMT 0603 PKG
	R58		
10	R15	76S104-61	100K ohm SMT 0603 PKG
	R16		
	R17		
	R39		
	R40		
	R50		
	R51		
	R52		
	R53		
	R54		
5	R43	76S221-61	220 ohm SMT 0603 PKG
	R45		
	R46		
	R47		
	R48		
REV. 1 R59 CHANGES FROM 10K TO 270 ohmS			
1	R59	76S271-61	270 ohm SMT 0603 PKG
3	R3	76S470-61	47 ohm SMT 0603 PKG
	R5		
	R6		
2	R27	76S472-61	4.7K ohm SMT 0603 PKG
	R60		
1	R10	76S473-61	47K ohm SMT 0603 PKG
1	R36	76S474-61	470K ohm SMT 0603 PKG
3	L1	94S001-01	0.5A, .3ohm, 600 OHMS/100MHz
	L3		
	L4		

ALL RESISTORS ARE 5% UNLESS OTHERWISE SPECIFIED!

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2-16-2000

REV. 1 CHANGE R59 TO 270 ohms FROM 10K, C32 CHANGES FROM 10uF/50V TO 100uF/35V 20% EL

ADD D2 TO PARTS LIST

2-16-2000

REV. 2 CHANGE C17 PACKAGE SIZE TO 0805, R56 CHANGE PACKAGE SIZE TO 0805

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Count	RefDes	Part Number	Description
1	PWB1	06B886-01B	16 BIT EFFECTS BD
9	C23	10S102-12	0.001 uF SMT 0805 50V 10% X7R
	C37		
	C38		
	C39		
	C40		
	C56		
	C57		
	C58		
	C59		
6	C27	10S103-12	0.01 uF SMT 0805 50V 10% X7R
	C28		
	C29		
	C36		
	C43		
	C45		
1	R14	10S103-02	0.01 uF SMT 0603 50V 10% X7R
15	C8	10S104-22	0.1 uF SMT 1206 50V 10% X7R
	C10		
	C13		
	C21		
	C22		
	C24		
	C25		
	C26		
	C30		
	C31		
	C33		
	C34		
	C35		
	C41		
	C54		
2	C1	10S220-11	22 pF SMT 0805 50V 10% X7R
	C2		
2	C6	10S271-11	270 pF SMT 0805 50V 10% X7R
	C7		
1	C3	10S470-11	47 pF SMT 0805 50V 10% X7R
1	C9	10S473-22	0.047 uF SMT 1206 50V 10% X7R
2	C12	10S474-12	0.47 uF SMT 0805 16V 10% X7R
	C16		
2	C4	12R105-50	1 uF 50V 20% EL
	C5		
3	C11	12R106-10	10 uF 50V 20% EL
	C20		
	C32		
1	J2	17-100-10	MOLEX 52011-0810
1	U7	17S460-32	PCS-032SMU-12 PLCC-3
7	D1	21S914-01	1N914/1N4148 75V M-MELF 1206
REV. 1 ADD D2			
	D2		
	D5		
	D6		
	D7		
	D8		
	D9		

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1	U5	37S004-20	SST 29EE512-90-4C-NH(PROGRAMMED)
1	Y1	37-900-18	RALTRON A-16.000-S 1
2	U8	37S181-02	ADM809T LOGIC HIGH RE
	U4		
1	U1	37S186-01	ADSP-2186KST-133
1	U3	37S705-01	MC7805CD2T D2 PACK +
1	U2	37S881-01	AD1881 STEREO CODEC
REV. 2 CHANGE PACKAGE OF C17 TO A 0805			
1	C17	76S010-21	1 ohm SMT 0805 PKG
1	R4	76S010-61	1 ohm SMT 0603 PKG
1	R38	76S047-61	4.7 ohm SMT 0603 PKG
REV. 2 CHANGE PACKAGE OF R56 TO 0805			
1	R56	76S100-21	10 ohm SMT 0805 PKG
1	R57	76S101-61	100 ohm SMT 0603 PKG
3	R1	76S102-61	1K ohm SMT 0603 PKG
	R26		
	R37		
QTY CHANGE FROM 3 TO 2, R59 BECOMES A 270 ohm RESISTOR REV.1			
2	R7	76S103-61	10K ohm SMT 0603 PKG
	R58		
10	R15	76S104-61	100K ohm SMT 0603 PKG
	R16		
	R17		
	R39		
	R40		
	R50		
	R51		
	R52		
	R53		
	R54		
5	R43	76S221-61	220 ohm SMT 0603 PKG
	R45		
	R46		
	R47		
	R48		
REV. 1 R59 CHANGES FROM 10K TO 270 ohmS			
1	R59	76S271-61	270 ohm SMT 0603 PKG
3	R3	76S470-61	47 ohm SMT 0603 PKG
	R5		
	R6		
2	R27	76S472-61	4.7K ohm SMT 0603 PKG
	R60		
1	R10	76S473-61	47K ohm SMT 0603 PKG
1	R36	76S474-61	470K ohm SMT 0603 PKG
3	L1	94S001-01	0.5A, .3ohm, 600 OHMS/100MHz
	L3		
	L4		

ALL RESISTORS ARE 5% UNLESS OTHERWISE SPECIFIED!

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2-16-2000

REV.1 CHANGE R59 TO 270 ohms FROM 10K, C32 CHANGES FROM 10uF/50V TO  
100uF/35V 20% EL

ADD D2 TO PARTS LIST

2-16-2000

REV. 2 CHANGE C17 PACKAGE SIZE TO 0805, R56 CHANGE PACKAGE SIZE TO 0805  
C32 CHANGES TO 10uF/35V EL

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Count RefDes      Part Number      Description
-----
1   PWB1          06B886-01B      16 BIT EFFECTS BD
9   C23           10S102-12       0.001 uF SMT 0805 50V 10% X7R
   C37
   C38
   C39
   C40
   C56
   C57
   C58
   C59
6   C27           10S103-12       0.01 uF SMT 0805 50V 10% X7R
   C28
   C29
   C36
   C43
   C45
1   R14           10S103-02       0.01uF SMT 0603 50V 10% X7R
15  C8             10S104-22       0.1 uF SMT 1206 50V 10% X7R
   C10
   C13
   C21
   C22
   C24
   C25
   C26
   C30
   C31
   C33
   C34
   C35
   C41
   C54
2   C1            10S220-11       22 pF SMT 0805 50V 10% X7R
   C2
2   C6            10S271-11       270 pF SMT 0805 50V 10% X7R
   C7
1   C3            10S470-11       47 pF SMT 0805 50V 10% X7R
1   C9            10S473-22       0.047 uF SMT 1206 50V 10% X7R
2   C12           10S474-12       0.47 uF SMT 0805 16V 10% X7R
   C16
2   C4            12R105-50       1 uF 50V 20% EL
   C5
3   C11           12R106-10       10 uF 50V 20% EL
   C20
   C32
1   J2            17-100-10       AMP 640456-8
1   U7            17S460-32       PCS-032SMU-12 PLCC-3
7   D1            21S914-01       1N914/1N4148 75V M-MELF 1206
   D2
   D5
   D6
   D7
   D8
   D9
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1	U5	37S005-01	SST 29EE512-90-4C-NH(PROGRAMMED)
1	Y1	37-900-18	RALTRON A-16.000-S 1
2	U8	37S181-03	ADM809T LOGIC HIGH RE
	U4		
1	U1	37S186-01	ADSP-2186KST-133
1	U3	37S705-01	MC7805CD2T D2 PACK +
1	U2	37S881-01	AD1881 STEREO CODEC
REV. 2 CHANGE PACKAGE SIZE OF C17 TO 0805			
1	C17	76S010-21	1 ohm SMT 0805 PKG
1	R4	76S010-61	1 ohm SMT 0603 PKG
1	R38	76S047-61	4.7 ohm SMT 0603 PKG
REV. 2 CHANGE PACKAGE SIZE OF R56 TO 0805			
1	R56	76S100-21	10 ohm SMT 0805 PKG
1	R57	76S101-61	100 ohm SMT 0603 PKG
3	R1	76S102-61	1K ohm SMT 0603 PKG
	R26		
	R37		
QTY CHANGE FROM 3 TO 2, R59 BECOMES A 270 ohm RESISTOR REV.1			
2	R7	76S103-61	10K ohm SMT 0603 PKG
	R58		
10	R15	76S104-61	100K ohm SMT 0603 PKG
	R16		
	R17		
	R39		
	R40		
	R50		
	R51		
	R52		
	R53		
	R54		
5	R43	76S221-61	220 ohm SMT 0603 PKG
	R45		
	R46		
	R47		
	R48		
REV. 1 R59 CHANGES FROM 10K TO 270 ohms			
1	R59	76S271-61	270 ohm SMT 0603 PKG
3	R3	76S470-61	47 ohm SMT 0603 PKG
	R5		
	R6		
2	R27	76S472-61	4.7K ohm SMT 0603 PKG
	R60		
1	R10	76S473-61	47K ohm SMT 0603 PKG
1	R36	76S474-61	470K ohm SMT 0603 PKG
3	L1	94S001-01	0.5A, .3ohm, 600 OHMS/100MHz
	L3		
	L4		

ALL RESISTORS ARE 5% UNLESS OTHERWISE SPECIFIED!

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2-16-2000

REV.1 CHANGE R59 TO 270 ohms FROM 10K, C32 CHANGE FROM 10uF/50V TO  
100uF/35V 20% EL

ADD D2 TO PARTS LIST

2-16-2000

REV. 2 CHANGE C17 PACKAGE SIZE TO 0805, CHANGE R56 PACKAGE SIZE TO 0805

4-3-2000

REV. 3 ADD R54 100K

4-5-2000

REV. 4 CHANGE D4 FROM 1M TO 4.75K

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Count	RefDes	Part Number	Description
1	PWB1	06B886-01B	16 BIT EFFECTS BOARD
1	C55	10S101-11	100 pF SMT 0805 50V 10% X7R
8	C23	10S102-12	0.001 uF SMT 0805 50V 10% X7R
	C37		
	C38		
	C39		
	C40		
	C56		
	C57		
	C59		
6	C27	10S103-12	0.01 uF SMT 0805 50V 10% X7R
	C28		
	C29		
	C36		
	C43		
	C45		
15	C8	10S104-22	0.1 uF SMT 1206 50V 10% X7R
	C10		
	C13		
	C21		
	C22		
	C24		
	C25		
	C26		
	C30		
	C31		
	C33		
	C34		
	C35		
	C41		
	C54		
2	C1	10S220-11	22 pF SMT 0805 50V 10% X7R
	C2		
2	C6	10S271-11	270 pF SMT 0805 50V 10% X7R
	C7		
1	C3	10S470-11	47 pF SMT 0805 50V 10% X7R
1	C9	10S473-22	0.047 uF SMT 1206 50V 10% X7R
2	C12	10S474-12	0.47 uF SMT 0805 16V 10% X7R
	C16		
2	C4	12R105-50	1 uF 50V 20% EL
	C5		
3	C11	12R106-10	10 uF 50V 20% EL
	C20		
	C32		
1	J2	17-100-10	MOLEX 52011-0710
1	U7	17S460-32	PCS-032SMU-12 PLCC-3
4	D1	21S914-01	1N914/1N4148 75V M-MELF 1206
	D2		
	D8		
	D9		
1	U5	37S006-01	SST 29EE512-90-4C-NH (PROGRAMMED)
1	Y1	37-900-18	RALTRON A-16.000-S 1
2	U8	37S181-03	ADM809T LOGIC HIGH RE

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U4  
1 U1 37S186-01 ADSP-2186KST-133  
1 U3 37S705-01 MC7805CD2T D2 PACK +  
1 U2 37S881-01 AD1881 STEREO CODEC  
REV. 2 CHANGE PACKAGE OF C17 TO 0805  
1 C17 76S010-21 1 ohm SMT 0805 PKG  
3 R4 76S010-61 1 ohm SMT 0603 PKG  
R18  
R26  
1 R38 76S047-61 4.7 ohm SMT 0603 PKG  
REV. 2 CHANGE R56 PACKAGE TO 0805  
1 R56 76S100-21 10 ohm SMT 0805 PKG  
3 R1 76S102-61 1K ohm SMT 0603 PKG  
R37  
R57  
QTY CHANGE FROM 3 TO 2, R59 BECOMES A 270 ohm RESISTOR REV. 1  
2 R7 76S103-61 10K ohm SMT 0603 PKG  
R58  
10 R15 76S104-61 100K ohm SMT 0603 PKG  
R16  
R17  
R39  
R40  
R50  
R51  
R52  
R53  
REV.3 ADD R54  
R54  
5 R43 76S221-61 220 ohm SMT 0603 PKG  
R45  
R46  
R47  
R48  
REV. 1 R59 CHANGES FROM 10K TO 270 ohms  
1 R59 76S271-01 270 ohm SMT 0603 PKG  
3 R3 76S470-61 47 ohm SMT 0603 PKG  
R5  
R6  
2 R27 76S472-61 4.7K ohm SMT 0603 PKG  
R60  
REV.4 CHANGE D4 FROM 1M TO 4.75K  
1 D4 76S472-61 4.75K ohm SMT 1206 PKG 1%  
1 R10 76S473-61 47K ohm SMT 0603 PKG  
1 R36 76S474-61 470K ohm SMT 0603 PKG  
3 L1 94S001-01 0.5A, .3ohm, 600 OHMS/100MHz  
L3  
L4

ALL RESISTORS ARE 5%UNLESS OTHERWISE SPECIFIED!! D4 IS 1% RESISTOR.

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2-16-200

REV.1 CHANGE R59 TO 270 ohms FROM 10K, C32 CHANGE FROM 10uF/50V TO  
100uF/35V 20% EL

ADD D2 TO PARTS LIST

2-16-2000

REV. 2 CHANGE C17 PACKAGE SIZE TO 0805, CHANGE R56 PACKAGE SIZE TO 0805

4-3-2000

REV. 3 ADD R54 100K

4-5-2000

REV. 4

CHANGE D4 FROM 1M TO 4.75K

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Count	RefDes	Part Number	Description
1	PWB1	06B886-01B	16 BIT EFFECTS BOARD
1	C55	10S101-11	100 pF SMT 0805 50V 10% X7R
8	C23	10S102-12	0.001 uF SMT 0805 50V 10% X7R
	C37		
	C38		
	C39		
	C40		
	C56		
	C57		
	C59		
6	C27	10S103-12	0.01 uF SMT 0805 50V 10% X7R
	C28		
	C29		
	C36		
	C43		
	C45		
15	C8	10S104-22	0.1 uF SMT 1206 50V 10% X7R
	C10		
	C13		
	C21		
	C22		
	C24		
	C25		
	C26		
	C30		
	C31		
	C33		
	C34		
	C35		
	C41		
	C54		
2	C1	10S220-11	22 pF SMT 0805 50V 10% X7R
	C2		
2	C6	10S271-11	270 pF SMT 0805 50V 10% X7R
	C7		
1	C3	10S470-11	47 pF SMT 0805 50V 10% X7R
1	C9	10S473-22	0.047 uF SMT 1206 50V 10% X7R
2	C12	10S474-12	0.47 uF SMT 0805 16V 10% X7R
	C16		
2	C4	12R105-50	1 uF 50V 20% EL
	C5		
2	C11	12R106-10	10 uF 50V 20% EL
	C20		
1	C32	12R107-35	100uF 35V 20% EL
1	J2	17-100-10	MOLEX 52011-0710
1	U7	17S460-32	PCS-032SMU-12 PLCC-3
4	D1	21S914-01	1N914/1N4148 75V M-MELF 1206
	D2		
	D8		
	D9		
1	U5	37S006-20	SST 29EE512-90-4C-NH(PROGRAMMED)
1	Y1	37-900-18	RALTRON A-16.000-S 1
2	U8	37S181-03	ADM809T LOGIC HIGH RE

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U4
1 U1 37S186-01 ADSP-2186KST-133
1 U3 37S705-01 MC7805CD2T D2 PACK +
1 U2 37S881-01 AD1881 STEREO CODEC
REV. 2 CHANGE PACKAGE OF C17 TO 0805
1 C17 76S010-21 1 ohm SMT 0805 PKG
3 R4 76S010-61 1 ohm SMT 0603 PKG
R18
R26
1 R38 76S047-61 4.7 ohm SMT 0603 PKG
REV. 2 CHANGE R56 PACKAGE TO 0805
1 R56 76S100-21 10 ohm SMT 0805 PKG
3 R1 76S102-61 1K ohm SMT 0603 PKG
R37
R57
QTY CHANGE FROM 3 TO 2, R59 BECOMES A 270 ohm RESISTOR REV. 1
2 R7 76S103-61 10K ohm SMT 0603 PKG
R58
10 R15 76S104-61 100K ohm SMT 0603 PKG
R16
R17
R39
R40
R50
R51
R52
R53
REV. 3 ADD R54
R54

5 R43 76S221-61 220 ohm SMT 0603 PKG
R45
R46
R47
R48
REV. 1 R59 CHANGES FROM 10K TO 270 ohms
1 R59 76S271-01 270 ohm SMT 0603 PKG
3 R3 76S470-61 47 ohm SMT 0603 PKG
R5
R6
2 R27 76S472-61 4.7K ohm SMT 0603 PK
R60
REV. 4 CHANGE D4 TO 4.75K FROM 1M
1 D4 76S472-61 4.75K ohm SMT 1206 PKG 1%
1 R10 76S473-61 47K ohm SMT 0603 PKG
1 R36 76S474-61 470K ohm SMT 0603 PK
3 L1 94S001-01 0.5A, .3ohm, 600 OHMS/100MHz
L3
L4

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ALL RESISTORS ARE 5%UNLESS OTHERWISE SPECIFIED!! D4 IS 1% RESISTOR.

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2-16-2000

REV.1 CHANGE R59 TO 270 ohms FROM 10K, C32 CHANGES FROM 10uF/50V TO  
100uF/35V 20% EL

2-16-2000

REV. 2 R55, R56 PACKAGE SIZE CHANGE FROM 1206 TO 0805

3-30-2000

REV. 3 CHANGE J2/J3 TO 640452-X STYLE HEADERS

ADDED U6 TO PARTS LIST

REV. 4 DELETE C47 .001uF AND R44 220 ohm

=====+

Count	RefDes	Part Number	Description
1	PWB1	06B886-01B	16 BIT EFFECTS BD
11	C23	10S102-12	.001 uF SMT 0805 50V 10% X7R
	C37		
	C38		
	C39		
	C40		
	C46		
	C51		
	C52		
	C53		
	C56		
	C57		
7	C27	10S103-12	0.01 uF SMT 0805 50V 10% X7R
	C28		
	C29		
	C36		
	C43		
	C44		
	C45		
15	C8	10S104-22	0.1 uF SMT 1206 50V 10% X7R
	C10		
	C13		
	C21		
	C22		
	C24		
	C25		
	C26		
	C30		
	C31		
	C33		
	C34		
	C35		
	C41		
	C54		
2	C1	10S220-11	22 pF SMT 0805 50V 10% X7R
	C2		
2	C6	10S271-11	270 pF SMT 0805 50V 10% X7R
	C7		
1	C3	10S470-11	47 pF SMT 0805 50V 10% X7R
1	C9	10S473-22	0.047 uF SMT 1206 50V 10% X7R
2	C12	10S474-12	0.47 uF SMT Y5V 0805 16V 10% X7R
	C16		
2	C4	12R105-50	1 uF 50V 20% EL
	C5		
QTY CHANGE FROM 3 TO 2, C32 CHANGES TO A 100uF/35V 20% EL			
3	C11	12R106-10	10 uF 50V 20% EL
	C20		
	C32		
REV 3. CHANGE J2/J3 TO MTA-100 FLAT HEADERS			
1	J2	17-100-10	AMP 640452-4
1	J3	17-100-10	AMP 640452-6
1	U7	17S460-32	PCS-032SMU-12 PLCC-3
4	D1	21S914-01	1N914/1N4148 75V M-MELF 1206
	D2		



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	D8		
	D9		
1	U5	37S003-20	SST 29EE512-90-4C-NH(PROGRAMMED)
1	Y1	37-900-18	RALTRON A-16.000-S 1
2	U8	37S181-03	ADM809T LOGIC HIGH RE
	U4	37S181-03	
1	U1	37S186-01	ADSP-2186KST-133
1	U3	37S705-01	MC7805CD2T D2 PACK +
1	U6	37S872-01	ALLIANCE AS7C256-20J
1	U2	37S881-01	AD1881 STEREO CODEC
1	R4	76S010-61	1 ohm SMT 0603 PKG
1	R38	76S047-61	4.7 ohm SMT 0603 PKG
REV. 2	R55,R56	PACKAGE SIZE IS A 0805	
2	R55	76S100-21	10 ohm SMT 0805 PKG
	R56		
4	R22	76S101-61	100 ohm SMT 0603 PKG
	R23		
	R24		
	R25		
2	R1	76S102-61	1K ohm SMT 0603 PKG
	R37		
QTY CHANGE	FROM 3 TO 2.	R59 BECOMES A 270 ohm RESISTOR	REV.1
2	R7	76S103-61	10K ohm SMT 0603 PKG
	R58		
14	R15	76S104-61	100K ohm SMT 0603 PKG
	R16		
	R17		
	R32		
	R33		
	R34		
	R35		
	R39		
	R40		
	R50		
	R51		
	R52		
	R53		
	R54		
5	R43	76S221-61	220 ohm SMT 0603 PKG
	R45		
	R46		
	R47		
	R48		
REV. 1	R59	CHANGES FROM 10K TO 270 ohms	
1	R59	76S271-61	270 ohm SMT 0603 PKG
3	R3	76S470-61	47 ohm SMT 0603 PKG
	R5		
	R6		
2	R27	76S472-61	4.7K ohm SMT 0603 PKG
	R60		
1	R10	76S473-61	47K ohm SMT 0603 PKG
1	R36	76S474-61	470K ohm SMT 0603 PKG
3	L1	94S001-01	0.5A, .3ohm, 600 OHMS/100MHz
	L3		
	L4		

ALL RESISISTORS ARE 5% UNLESS OTHER SPECIFIED!

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2-16-2000

REV.1 CHANGE R59 TO 270 ohms FROM 10K, C32 CHANGES FROM 10uF/50V TO  
100uF/35V 20% EL

ADD D2 TO PARTS LIST

2-16-2000

REV. 2 CHANGE C17 PACKAGE SIZE TO 0805, R56 CHANGE PACKAGE SIZE TO 0805  
C32 CHANGES TO 10uF/35V EL

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Count RefDes      Part Number      Description
-----
1   PWB1           06B886-01B      16 BIT EFFECTS BD
9   C23            10S102-12       0.001 uF SMT 0805 50V 10% X7R
   C37
   C38
   C39
   C40
   C56
   C57
   C58
   C59
6   C27            10S103-12       0.01 uF SMT 0805 50V 10% X7R
   C28
   C29
   C36
   C43
   C45
1   R14            10S103-02       0.01uF SMT 0603 50V 10% X7R
15  C8              10S104-22       0.1 uF SMT 1206 50V 10% X7R
   C10
   C13
   C21
   C22
   C24
   C25
   C26
   C30
   C31
   C33
   C34
   C35
   C41
   C54
2   C1              10S220-11       22 pF SMT 0805 50V 10% X7R
   C2
2   C6              10S271-11       270 pF SMT 0805 50V 10% X7R
   C7
1   C3              10S470-11       47 pF SMT 0805 50V 10% X7R
1   C9              10S473-22       0.047 uF SMT 1206 50V 10% X7R
2   C12            10S474-12       0.47 uF SMT 0805 16V 10% X7R
   C16
2   C4              12R105-50       1 uF 50V 20% EL
   C5
2   C11            12R106-10       10 uF 50V 20% EL
   C20
1   C32            12R107-35       100uF 35V 20% EL
1   J2              17-100-10       AMP 640456-8
1   U7              17S460-32       PCS-032SMU-12 PLCC-3
7   D1              21S914-01       1N914/1N4148 75V M-MELF 1206
   D2
   D5
   D6
   D7
   D8
   D9
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1	U5	37S005-20	SST 29EE512-90-4C-NH(PROGRAMMED)
1	Y1	37-900-18	RALTRON A-16.000-S 1
2	U8	37S181-03	ADM809T LOGIC HIGH RE
	U4		
1	U1	37S186-01	ADSP-2186KST-133
1	U3	37S705-01	MC7805CD2T D2 PACK +
1	U2	37S881-01	AD1881 STEREO CODEC
REV. 2 CHANGE PACKAGE SIZE OF C17 TO 0805			
1	C17	76S010-21	1 ohm SMT 0805 PKG
1	R4	76S010-61	1 ohm SMT 0603 PKG
1	R38	76S047-61	4.7 ohm SMT 0603 PKG
REV. 2 CHANGE PACKAGE SIZE OF R56 TO 0805			
1	R56	76S100-21	10 ohm SMT 0805 PKG
1	R57	76S101-61	100 ohm SMT 0603 PKG
3	R1	76S102-61	1K ohm SMT 0603 PKG
	R26		
	R37		
QTY CHANGE FROM 3 TO 2, R59 BECOMES A 270 ohm RESISTOR REV.1			
2	R7	76S103-61	10K ohm SMT 0603 PKG
	R58		
10	R15	76S104-61	100K ohm SMT 0603 PKG
	R16		
	R17		
	R39		
	R40		
	R50		
	R51		
	R52		
	R53		
	R54		
5	R43	76S221-61	220 ohm SMT 0603 PKG
	R45		
	R46		
	R47		
	R48		
REV. 1 R59 CHANGES FROM 10K TO 270 ohms			
1	R59	76S271-61	270 ohm SMT 0603 PKG
3	R3	76S470-61	47 ohm SMT 0603 PKG
	R5		
	R6		
2	R27	76S472-61	4.7K ohm SMT 0603 PKG
	R60		
1	R10	76S473-61	47K ohm SMT 0603 PKG
1	R36	76S474-61	470K ohm SMT 0603 PKG
3	L1	94S001-01	0.5A, .3ohm, 600 OHMS/100MHz
	L3		
	L4		

ALL RESISTORS ARE 5% UNLESS OTHERWISE SPECIFIED!

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2-16-200

REV.1 CHANGE R59 TO 270 ohms FROM 10K, C32 CHANGE FROM 10uF/50V TO  
100uF/35V 20% EL

ADD D2 TO PARTS LIST

2-16-2000

REV. 2 CHANGE C17 PACKAGE SIZE TO 0805, CHANGE R56 PACKAGE SIZE TO 0805

4-17-2000

REV. 3 CHANGE D4 TO A 4.75K 1% RESISTOR FROM 1M

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Count	RefDes	Part Number	Description
1	PWB1	06B886-01B	16 BIT EFFECTS BOARD
1	C55	10S101-11	100 pF SMT 0805 50V 10% X7R
8	C23	10S102-12	0.001 uF SMT 0805 50V 10% X7R
	C37		
	C38		
	C39		
	C40		
	C56		
	C57		
	C59		
6	C27	10S103-12	0.01 uF SMT 0805 50V 10% X7R
	C28		
	C29		
	C36		
	C43		
	C45		
15	C8	10S104-22	0.1 uF SMT 1206 50V 10% X7R
	C10		
	C13		
	C21		
	C22		
	C24		
	C25		
	C26		
	C30		
	C31		
	C33		
	C34		
	C35		
	C41		
	C54		
2	C1	10S220-11	22 pF SMT 0805 50V 10% X7R
	C2		
2	C6	10S271-11	270 pF SMT 0805 50V 10% X7R
	C7		
1	C3	10S470-11	47 pF SMT 0805 50V 10% X7R
1	C9	10S473-22	0.047 uF SMT 1206 50V 10% X7R
2	C12	10S474-12	0.47 uF SMT 0805 16V 10% X7R
	C16		
2	C4	12R105-50	1 uF 50V 20% EL
	C5		
2	C11	12R106-10	10 uF 50V 20% EL
	C20		
1	C32	12R107-35	100uF 35V 20% EL
1	J2	17-100-10	MOLEX 52011-0710
1	U7	17S460-32	PCS-032SMU-12 PLCC-3
4	D1	21S914-01	1N914/1N4148 75V M-MELF 1206
	D2		
	D8		
	D9		
1	U5	37S006-20	SST 29EE512-90-4C-NH(PROGRAMMED)
1	Y1	37-900-18	RALTRON A-16.000-S 1
2	U8	37S181-03	ADM809T LOGIC HIGH RE

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	U4		
1	U1	37S186-01	ADSP-2186KST-133
1	U3	37S705-01	MC7805CD2T D2 PACK +
1	U2	37S881-01	AD1881 STEREO CODEC
REV. 2 CHANGE PACKAGE OF C17 TO 0805			
1	C17	76S010-21	1 ohm SMT 0805 PKG
3	R4	76S010-61	1 ohm SMT 0603 PKG
	R18		
	R26		
1	R38	76S047-61	4.7 ohm SMT 0603 PKG
REV. 2 CHANGE R56 PACKAGE TO 0805			
1	R56	76S100-21	10 ohm SMT 0805 PKG
3	R1	76S102-61	1K ohm SMT 0603 PKG
	R37		
	R57		
QTY CHANGE FROM 3 TO 2, R59 BECOMES A 270 ohm RESISTOR REV. 1			
2	R7	76S103-61	10K ohm SMT 0603 PKG
	R58		
9	R15	76S104-61	100K ohm SMT 0603 PKG
	R16		
	R17		
	R39		
	R40		
	R50		
	R51		
	R52		
	R53		
REV. 3 CHANGE D4 TO A 4.75K 1% RESISTOR FROM A 1M RESISTOR.			
1	D4	76S472-61	4.75K ohm SMT 1206 PKG 1%
5	R43	76S221-61	220 ohm SMT 0603 PKG
	R45		
	R46		
	R47		
	R48		
REV. 1 R59 CHANGES FROM 10K TO 270 ohms			
1	R59	76S271-01	270 ohm SMT 0603 PKG
3	R3	76S470-61	47 ohm SMT 0603 PKG
	R5		
	R6		
2	R27	76S472-61	4.7K ohm SMT 0603 PK
	R60		
1	R10	76S473-61	47K ohm SMT 0603 PKG
1	R36	76S474-61	470K ohm SMT 0603 PK
3	L1	94S001-01	0.5A, .3ohm, 600 OHMS/100MHz
	L3		
	L4		

ALL RESISTORS ARE 5%UNLESS OTHERWISE SPECIFIED!! D4 IS 1% RESISTOR.

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