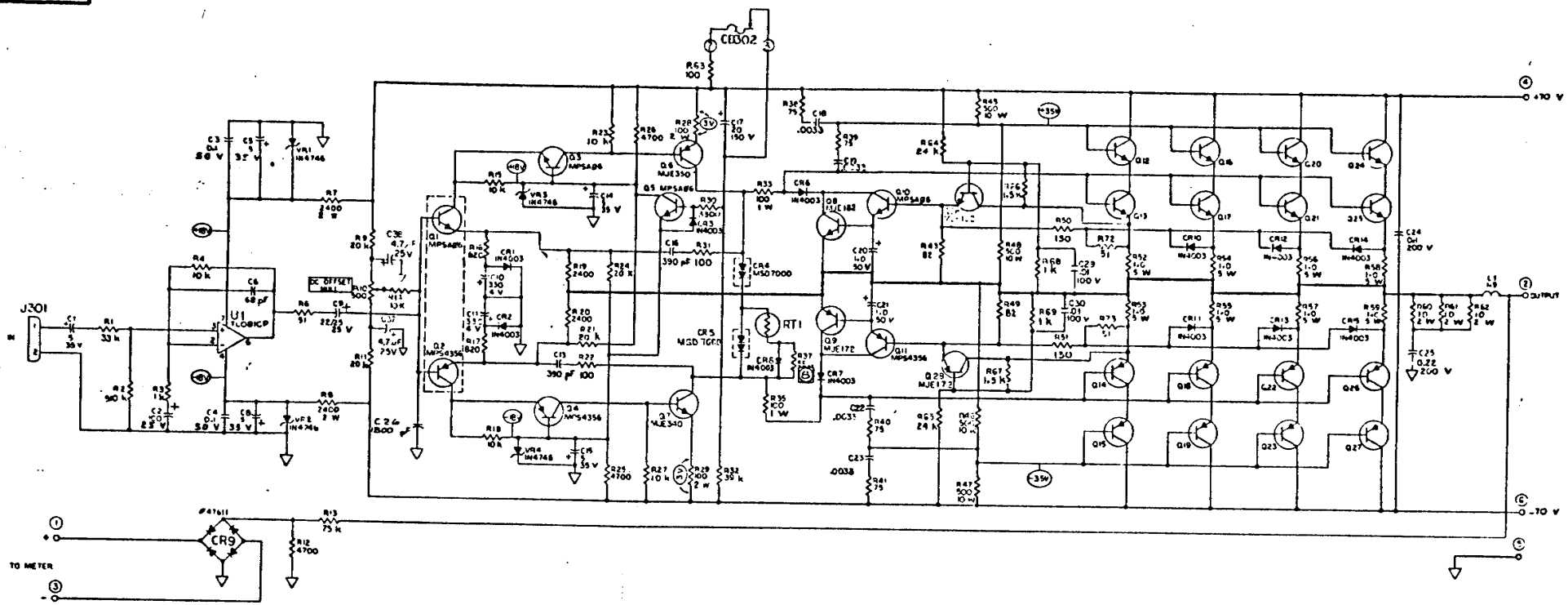
NOTICE

THE FOLLOWING DCR'S ARE OUTSTANDING AGAINST THIS DRAWING.



REFERENCE DESIGNATIONS	
LAST USED	NOT USED
RT1	
C36	C7
CR15	
L1	
Q29	
R73	R36,R42,R44,R34,R70 & R71, R5
VR4	
CE-02	

1. Q12-Q27 MUST ALL BE SAME MANUFACTURER, R37 SELECTED FOR STABLE IDLE dc POWER CONSUMPTION OF 40-80 W (13@TYPICAL).
7. Q14,Q15,Q18,Q19,Q22,Q23,Q25 AND Q27 ARE RCA 8203B OR 2N6041.
8. Q12,Q13,Q16,Q17,Q20,Q21,Q24 AND Q26 ARE 2N6388 OR 2N6044.
9. ZENER DIODES RATED AT 6 V ±5%.
4. VOLTAGES MEASURED WITH 120 V dc LINE AND NO SIGNAL INPUT.
5. RESISTOR VALUES IN KILOHMS
6. CAPACITOR VALUES IN MICROFARADS
7. RESISTOR VALUES IN OHMS, ½ W, 5 %.
UNLESS OTHERWISE SPECIFIED

FILE COPY

52966

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NOTICE
THE FOLLOWING DCR'S ARE OUT—STANDING AGAINST THIS DRAWING.

NUMBERS	DESCRIPTION	REMARKS
29390-11	SCHEMATIC, 6502	7
29390-21	SCHEMATIC, 6502	8

REVISIONS

CHG	LTR	DESCRIPTION	DRFT	CHK	DATE	APPR
—	A	MFG PROTOTYPE RUN NO. 1				
ECO M	B	REL FOR PRODUCTION				
5050	C	R1, R13, R25, R37, R49 & R61 82K WAS 510 K	DAM			
6350	D	REV PER DCN				
7030	E	REV PER DCN	DAM			
8750	F	SHT 2, R37 220 1kW WAS 470 1kW	DAM			
9210	G	REV PER DCN				
136E	H	REV PER DCN	DAM			
178E		T-15 COLOR GRN YEL WAS WHT/BLK	DAM			

LINE INPUT 2 — TB2 (CHASSIS, O, I, GND, DIRECT) — P7/J7 — MIC 6 — MIC 5 — MIC 4 — MIC 3 — MIC 2 — MIC 1

LINE INPUT 1 — TB3 (CHASSIS, O, I, GND, DIRECT) — P7/J7

A2 - TRANSFORMER PC BOARD

S2 MIC 1 · S3 MIC 2 · S4 MIC 3 · S5 MIC 4 · S6 MIC 5 · S7 MIC 6

A4 - POWER AMPLIFIER PC BOARD
SEE SCHEMATIC 54966

A1 - CONTROL PC BOARD

MASTER LEVEL

METER RANGE SW

OPTIONAL OUTPUT TRANSFORMER ASSY

TB1 — 8 FOR 240 Vac

A1 - REFERENCE DESIGNATIONS			
LAST USED	NOT USED	LAST USED	NOT USED
Q4			
AR2			
R43	R28		
VR11			
C19	C16,17,18		
CR7			
S7			
J3			
E19			

UNIT - REFERENCE DESIGNATIONS			
LAST USED	NOT USED	LAST USED	NOT USED
		C5	
F1		R4	
TB6		CR3	
S3		P301	P8,11,14,15 17 THRU 399
DS2	DS1	J301	P5,11,14,15 17 THRU 399
T2		E2	
JR2			
PH2			
MIC 6			
M1			

8 CIRCUIT VARIATION FOR 240 Vac INPUT. FUSE VALUE IS 2.5 A.
6 CIRCUIT VARIATION FOR 100 Vac INPUT. FUSE VALUE IS 5 A.
EXTERNAL COMPONENTS.
IN THE EVENT THE OPTIONAL OUTPUT TRANSFORMER IS EMPLOYED, A JUMPER WIRE MUST BE INSERTED BETWEEN TB5-3 AND TB5-4.
NON-POLARIZED CAPACITORS ≤1000 pF ARE MICA; ≥1000 pF ARE POLYESTER.
CAPACITANCE VALUES ARE IN MICROFARADS.
ALL RESISTORS ARE ¼ W, 5% CARBON FILM.
RESISTANCE VALUES ARE IN OHMS.

NOTES: (UNLESS OTHERWISE SPECIFIED)

Page 1 of 4

6502

ITEM	PART NO.	DESCRIPTION	QTY	REMARKS

BILL OF MATERIAL

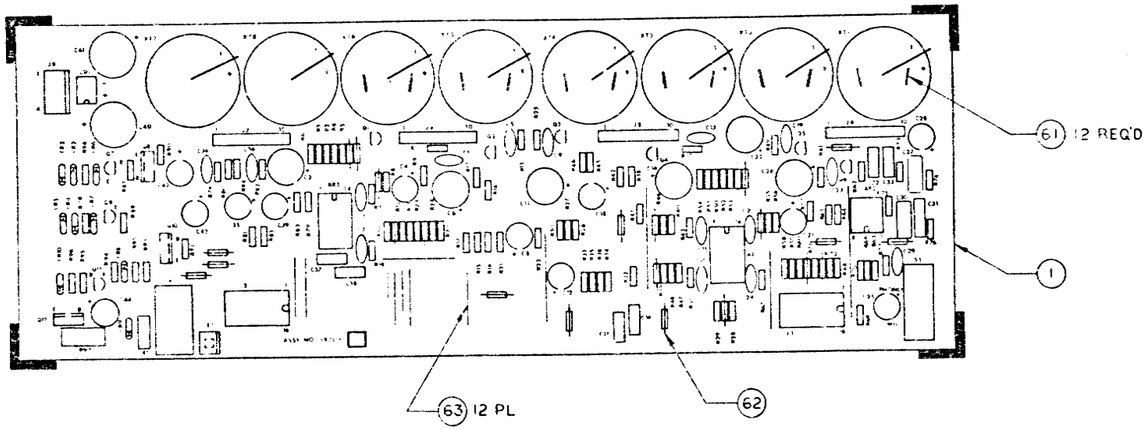
TOLERANCES (UNLESS OTHERWISE SPECIFIED) DEC ±.01 ANGULAR ±1°
FRACTIONAL U.S. DIMENSIONS ± 1/64 [.025]
ALL DIMENSIONS ARE FINISHED DIMENSIONS — DO NOT SCALE DRAWING

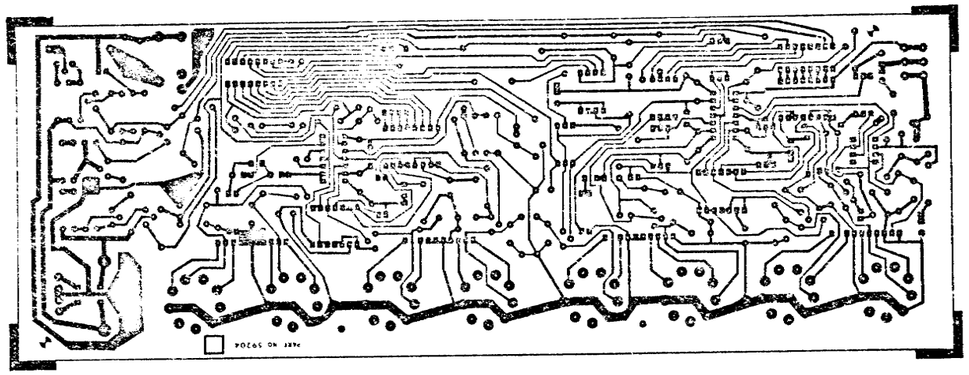
JAMES B. LANSING SOUND, INC.
A Harman International Company
Farmington, California 95230 U.S.A.

TITLE: SCHEMATIC, 6502

SIZE A0 · DRAWING NO. 29390-21 · REV H · SCALE NONE · SHEET 1 OF 2

REVISIONS					
CHG LTR	DESCRIPTION	DFFT	CHK	DATE	APPD
E	INCORPORATE TESIGN UPDATE AS RELEASED FOR PRODUCTION				





65	54727	SCREW, PNH, 4-40 x 3/16	2	(USED ON Q8 & Q10)
64	59541	HEATSINK, TRANSISTOR, TO-220	2	(USED ON Q8 & Q10)
63	48679	JUMPER, 22 AWG, SOLID, BLK (48600)	1	508 [20] TOTAL
62	51430	JUMPER, CIRCUIT	23	
61	58325-01	JUMPER, 11 AWG. 1/4	12	
60	59277	SOCKET, 9 PIN	8	XT1 - XT8
59	58722-79	POST HEADER, 10 POSITION	1	J7
58	58722-17	POST HEADER, 10 POSITION	3	J4, 5, 6
57	59021-03	SOCKET, IC, 16 PIN	2	J1, 2
56	48514	NUT, HEX	2	(USED ON Q8 & Q10)
55				
54	57065	SWITCH, SLIDE, DPDP	1	S1
53	59038	RELAY, HBI-DC, 24 V	1	K1
52	52216	IC, OP AMPL, TL081CP	1	AR2
51	59028	IC, OP AMPL. LOW NOISE, TL074CP	2	AR1, 3
50	58768	TERMINAL, FAST-ON, MALE, .187	1	E1
49	59290	CONNECTOR, 4 PIN, MALE	1	J9
48	55648	DUAL IN-LINE BRIDGE	1	CR1
47	59878	DIODE, ZENER IN4746A	2	CR6, 7
46	59034	DIODE, ZENER IN4731	1	CR10
45	39869	DIODE, IN4003	1	CR9
44	52544	DIODE, IN914B	5	CR2, 3, 4, 5, 8

43	48337	TRANSISTOR, 2N5086	2	Q7, 11
42	58720	NPN 4A 2N6123	1	Q8
41	58719	PNP 4A 2N6126	1	Q10
40	55411	MJE 182	1	Q12
39	59030	PF5103	6	Q1, 2, 3, 4 5, 6
38	48338	TRANSISTOR, 2N5210	1	Q9
37	58725-1005	CAPACITOR, 10 µF, 50 V	1	C44
36	59268	1000 µF, 6.3 V (36178)	6	C2, 6, 11, 14, 22, 26
35	59269	220 µF, 50 V (36178)	2	C40, 41
34	53048	.0056 µF, 250 V (48417)	1	C31
33	59073	.0012 µF, 250 V (48417)	1	C30
32	58690	.1 µF, 100 V (48417)	6	C16, 17, 32, 33, 37, 38
31	58738	.01 µF, 250 V (48417)	1	C45
30				
29	48433	MICA, 20 pF, 500 V, 5% (45418)	14	C1, 3, 5, 7, 9, 10, 13, 15 19, 20, 23, 24, 34, 36
28	48451	MICA, 100 pF, 500 V, 5% (45418)	1	C27
27	58730-220S	CAPACITOR, 22 µF, 25 V (58730)	11	C4, 8, 12, 18, 21, 25 28, 35, 39, 42, 43
26	35720	RESISTOR, 680 Ω 1/2 W (35676)	1	R97
25	36456	910 Ω 1/4 W (36409)	6	R11, 23, 35, 47, 59, 71
24	36440	200 Ω (36409)	1	R92
23	36436	130 Ω (36409)	6	R12, 24, 36, 48, 60, 72
22	36434	110 Ω (36409)	2	R90, 91
21	36429	68 Ω (36409)	2	R87, 89
20	36522	510 kΩ (36409)	6	R1, 13, 25, 37, 49, 61
19	31055	1 MΩ (36409)	1	R94
18	36524	620 kΩ (36409)	1	R76
17	36517	330 kΩ (36409)	6	R7, 19, 31, 43, 55, 67
16	35621	100 kΩ (36409)	1	R96
15	36499	56 kΩ (36409)	1	R75
14	36497	47 kΩ (36409)	1	R73
13	36493	33 kΩ (36409)	2	R86, 88
12	36479	8.2 kΩ (36409)	6	R6, 18, 29, 41, 54, 66
11	36473	4.7 kΩ (36409)	2	R81, 85
10	36459	1.2 kΩ (36409)	1	R74
9	36464	2 kΩ (36409)	1	R95
8	36457	1 kΩ (36409)	2	R79, 83
7	36486	16 kΩ (36409)	6	R10, 22, 34, 46, 58, 69
6	36485	15 kΩ (36409)	8	R4, 16, 27, 39, 52, 64, 78, 82
5	36484	13 kΩ (36409)	6	R8, 20, 32, 44, 56, 68
4	36481	10 kΩ (36409)	20	R3, 5, 9, 15, 17, 21, 26, 30 33, 40, 42, 45, 51, 53, 57 63, 65, 70, 80, 84
3	36478	7.5 kΩ (36409)	6	R2, 14, 26, 38, 50, 62
2	36509	RESISTOR, 150 kΩ 1/4 W (36409)	1	R93
1	59204	P.C. BOARD, TRANSFORMER	1	
ITEM	PART NO.	DESCRIPTION	QTY	REMARKS

BILL OF MATERIAL

6502

4. COMPONENTS NOT USED: C29 & R77.
3. CIRCUIT SHOWN FOR REFERENCE ONLY.
2. FOR 6502 SCHEMATIC SEE DWG. 59280-X1.
1. FOR 5302 SCHEMATIC SEE DWG. 59163-X1.

NOTES: (UNLESS OTHERWISE SPECIFIED)

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETRES WITH INCH SIZES IN BRACKETS. BREAK SHARP EDGES 0.4 mm .016 inch.
TOLERANCES UNLESS OTHERWISE SPECIFIED: DECIMALS X.XXX ± 0.13 .005 inch; X.XX ± 0.25 .010 inch; X.X ± 0.5 .020 inch; ANGULAR ±1°; FRACTIONAL U.S. DIMENSIONS ± 1/32
ALL DIMENSIONS ARE FINISHED DIMENSIONS
DO NOT SCALE DRAWING

MATERIAL
FINISH
NEXT ASSY
USED ON
APPLICATION

DRAWN J.SMAY 25MAY 79
ENGR
CHKD
APPD
MFG APPD
QA APPD

JAMES B. LANSING SOUND, INC.
PARAMOUNT, CALIFORNIA, U.S.A.

TRANSFORMER P.C. BOARD ASSEMBLY

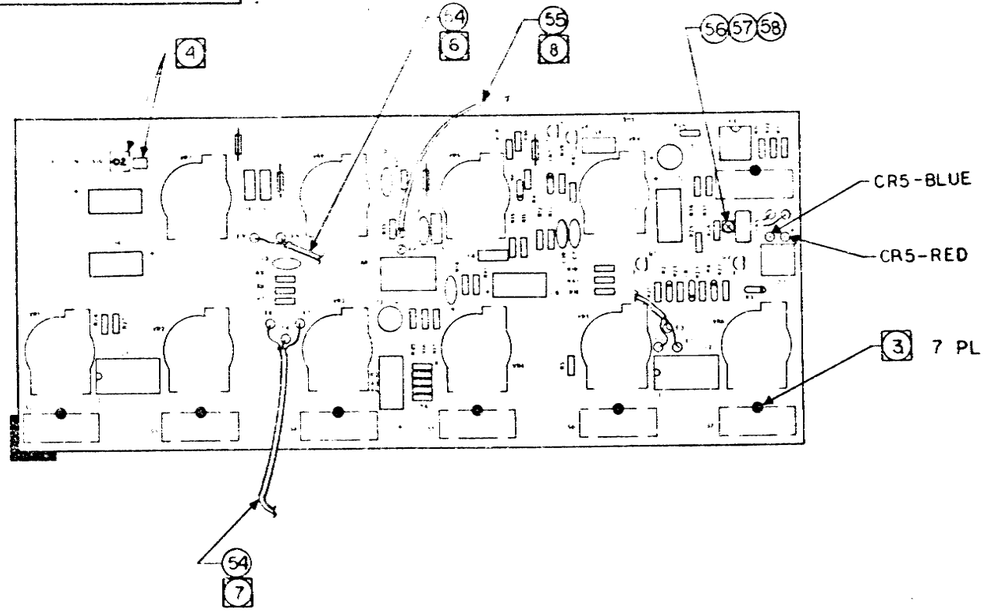
SIZE A1 | DRAWING NO. 59205 | REV B
SCALE | SHEET 1 OF 1

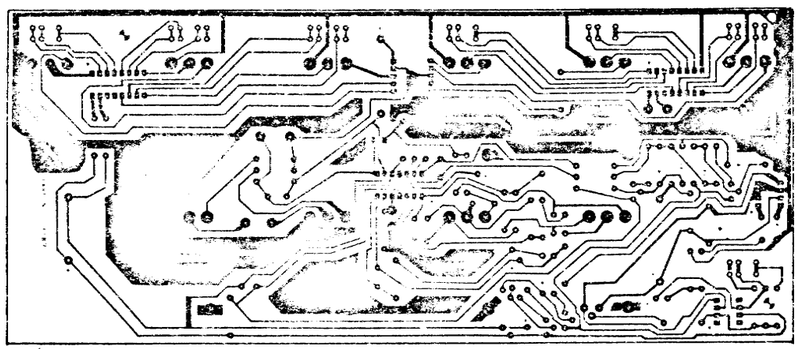
59205

Page 2 of 4

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REVISIONS						
CHG	LTR	DESCRIPTION	DRFT	CHK	DATE	APPR
E0094	B	REDRAWN & DESIGN UPDATE. REL. FOR PRODUCTION				





REF DESIGNATION	
LAST USED	NOT USED
Q4	
AR2	
R43	R28
VR11	
C19	C16,17,18
CR7	
S7	
J3	

ITEM	PART NO.	DESCRIPTION	QTY	REMARKS
46				
45				
44				
43				
42				
41				
40	59028	IC, LOW NOISE, OP AMP, TL074CN	1	AR1
39	55201	TRANSISTOR, PNP, MPS-4356	2	Q2, Q4
38	48340	TRANSISTOR, NPN, MPS-A06	2	Q1, Q3
37	58370-2205	CAPACITOR, 22 µF, 25 V (58370)	1	C3
36	48471	560 pF, 500 V, 5%	1	C7
35	48466	390 pF, 500 V, 5%	1	C19
34	48440	39 pF, 500 V, 5%	1	C9
33	48432	30 pF, 500 V, 5%	1	C6
32	48433	20 pF, 500 V, 5%	1	C2
31	48504	100 µF, 25 V	1	C12
30	56823	100 µF, 3 V	1	C1
29	36188	22 µF, 25 V	3	C11, C14, C15,
28	36180	2.2 µF, 50 V	1	C8
27	58690	0.1 µF, 100 V (48417)	2	C10, C13
26	59107	CAPACITOR, .022 µF, 250 V, 5% (48417)	2	C4, C5
25	36522	RESISTOR, 510 kΩ, 1/4 W, 5%	1	R9
24	35621	100 kΩ	2	R16, R35
23				
22	36497	47 kΩ	2	R12, R32
21	36492	30 kΩ	1	R43
20	36490	24 kΩ	1	R42,
19	35605	22 kΩ	2	R31, 34
18	36487	18 kΩ	2	R10, R11
17	36481	10 kΩ	7	R17, 19, 20, 26, 36, 38, 29
16	36479	8.2 kΩ	2	R14, R15
15	36474	5.1 kΩ	1	R30
14	36470	3.6 kΩ	1	R33
13	36457	1 kΩ	1	R37
12	36451	560 Ω	1	R41
11	36449	470 Ω	1	R18
10	36442	240 Ω	8	R1, 2, 3, 4, 5, 6, 7, 8
9	36437	150 Ω	1	R13
8	35549	100 Ω	3	R24, 25, 27
7	36425	47 Ω	1	R23
6	36410	RESISTOR, 10 Ω, 1/4 W, 5%	4	R21, 22, 39, 40
5	59263	TRIM POT, 25k Ω	1	VR11
4	59179-02	POTENTIOMETER, 100kΩ (59179-XX)	8	VR1, 2, 3, 4, 5, 6, 9, 10
3	59179-01	POTENTIOMETER, 25kΩ (59179-XX)	2	VR7, 8
2	58407	SLIDE SWITCH	7	S1, S2, S3, S4, S5, S6, S7
1	59189	P C BOARD	1	

45418 36178 36409

BILL OF MATERIAL 6502

ITEM	PART NO.	DESCRIPTION	QTY	REMARKS
58	48515	NUT, HEX, 2-56	1	
57	54972	WASHER, LOCK, NO 2	1	
56	55122	SCREW, PNH, 2-56 X 3/8	1	
55	58873	CABLE, SINGLE COND, COAX	X	(9)
54	58871	CABLE, SHIELDED, 2 COND	X	(9)
53	59021-01	SOCKET, IC (59021-XX)		J3
52	51430	JUMPER, CIRCUIT	4	
51	59021-03	SOCKET, IC (59021-XX)	2	J1, J2
50				
49	47611	BRIDGE RECTIFIER	1	CR5
48	52544	DIODE, 75 PIV, IN914B	6	CR1.2.3.4.6.7
47	59876	IC, OP AMPL, JFET-INP, TLOBICP	1	AR2

(7) SOLDER ITEM 54 AS FOLLOWS:
- A) SHIELD TO E4.
- B) WHITE TO E7.
- C) BLACK TO E8.

(6) SOLDER ITEM 54 AS FOLLOWS:
- A) WHITE FROM E1 TO E9.
- B) BLACK FROM E2 TO E10.
- C) SHIELD TO E3.

(5) STRIP WIRE 6.4 [1/4] BOTH ENDS.

(4) RUBBER STAMP ASSY DASH NUMBER & REVISION WHERE SHOWN.

(3) ITEM 2 IS POLARIZED, DETENT MECHANISM TO BE LOCATED AS INDICATED.

2. FOR SCHEMATIC SEE 59280-X1.

1. CIRCUITRY SHOWN FOR REFERENCE ONLY.

NOTES: (UNLESS OTHERWISE SPECIFIED.)

(9) LENGTH TO BE DETERMINED.

(8) SOLDER ITEM 55 AS FOLLOWS:
- A) SHIELD TO E5.
- B) WHITE TO E6.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETRES WITH INCH SIZES IN BRACKETS. BREAK SHARP EDGES 0.4 mm .016 inch.
TOLERANCES UNLESS OTHERWISE SPECIFIED: DECIMALS .XXX ±.013 .005 inch; .XX ±.025 .010 inch; .X ±.05 .020 inch; ANGULAR ±; FRACTIONAL ± 1/32
ALL DIMENSIONS ARE FINISHED DIMENSIONS. DO NOT SCALE DRAWING.

MATERIAL —— FINISH —— WORK ORDER NO. 6502

JAMES B. LANSING SOUND, INC.

P C BOARD, SWITCH ASSY

SIZE A1 | DRAWING NO. 59190-02 | REV B | SCALE 1/1 | SHEET 1 OF 1

59190-02

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NOTICE

THE FOLLOWING DCR'S ARE OUTSTANDING AGAINST THIS DRAWING.

ITEM	PART NUMBER	DESCRIPTION	QTY	REMARKS
96	55260	WASHER, SPLIT LOCK #10	10	
95	89937	WASHER - FLAT #10	10	
94	21954	HEX NUT, #10-32	10	
93	55123	SCREW, #10-32 x 5/8 LG SOCKET HEAD	10	
92	12268	LOCK WASHER #6	2	
91	11638	WASHER, NO.6 FLAT	2	
90	10039	SCREW, # 6-32 x 1/4 LG	2	
89	12602	WASHER, NO. 4 FLAT	6	
88	48514	KEPS NUT #4-40	25	
87	10044	SCREW, # 4-40 x 3/8 LG PN. HD.	2	
86	10043	SCREW, # 4-40 x 1/2 LG PN. HD.	23	
85	48515	HEX NUT # 2-56	1	
84	54972	WASHER, NO. 2 SPLIT-LOCK	1	
83	55122	SCREW, # 2-56 x 3/8 LG	1	
82	554545	THERMAL EPOXY	A/R	
81	128845	THERMAL COMPOUND	A/R	
80	51430	JUMPER WIRE	10	
79	55697	CLAMP CABLE	2	
78				
77				
76	55522	CABLE ASSY	1	W301
75	54460	WIRE 18 AWG - BLK	1	14" LG
74				
73				
72				
71	55539	DIODE CLIP	2	
70	55418	HEATSINK	2	
69				
68				
67	55415	CONNECTOR - 2 PIN	1	J301
66	55482	HEATSINK I.C.	1	
65	55035	BRACKET MTG	1	
64	55034	HEATSINK - SIDE	2	
63	55033	HEATSINK - MIDDLE	1	
62				
61	55397	BREAKER - THERMAL, 80°C	1	CB 302
60	52573	INDUCTOR, AIR CORE, 1.9 μH	1	L1
59	52225	DIODE - ZENER, IN4746, 18 V, 1 W	4	VR1 THRU VR4
58				

BILL OF MATERIAL

ITEM	PART NUMBER	DESCRIPTION	QTY	REMARKS
57	55414	TRANSISTOR - RCA 3203B	5	Q4,5,6,19,22,23,26,27
56	55413	2N6388	6	Q12,13,16,17,20,24,25
55	55412	MJE 172	2	Q9,29
54	55411	MJE 182	2	Q8,28
53	52209	MJE 340	1	Q7
52	52210	MJE 350	1	Q6
51	55201	MPS4356	3	Q2,4,11
50	48340	TRANSISTOR - MPSA 96	4	Q1,3,5,10
49	36163	CAPACITOR - 0.01 μF, 100 V	2	C29,30
48	88753	.22 μF, 250 V	1	C25
47	57910	4.7 μF, 25 V	2	C37,C38
46	48929	1800 pF, MICA	1	C26
45	10114	0.1 μF, 250 V	1	C24
44	81321	1.0 μF, 50 V	2	C20,21
43	53043	.0033 μF, 250 V	4	MRD48417, C18,19,22,23
42	55422	20 μF, 150 V	1	C17
41	48466	390 pF, 500 V, MICA	2	MRD48418, C13,16
40	55172	330 μF, 4 V	2	C10,11
39	36188	22/25 μF, 25 V	1	C9
38	48429	10 pF, 500 V, MICA	1	MRD48418, C7
37	48477	68 pF, 500 V, MICA	1	MRD48418, C6
36	56153	0.1 μF, 100 V	2	C3,4
35	48504	100 μF, 25 V	1	C2
34	47795	CAPACITOR - 5 μF, 35 V	5	C1,5,8,14,15
33	83331	RESISTOR, 33 kΩ, 1/2 W, 5 %	1	R1
32	52216	OP-AMP LM318H	1	U1
31	52219	DIODE - MSD7000	2	CR4,5
30	39869	DIODE - IN4003	12	CR1,2,3,6,7,8,10 THRU 15
29	47611	BRIDGE RECTIFIER	1	CR9
28	(6)	RESISTOR, 1/2 W, 5%, SELECTED.	1	MRD 35676, R37
27	35703	130 Ω, 1/2 W, 5 %	2	MRD 35676, R50, 51
26	10078	1.5 kΩ, 1/2 W, 5 %	2	MRD 35676, R66, 67
25	36737	100 Ω, 1 W, 5 %	2	MRD 36738, R33, 35
24	36888	100 Ω, 2 W, 5 %	2	MRD 36864, R28, 29
23	36865	10 Ω, 2 W, 5 %	3	MRD 36864, R60, 61, 62
22	81071	1.0 Ω, 5 W, 5 %	8	MRD 53400, R52 THRU 59
21	84074	500 Ω, 10 W, 10 %	4	MRD 35491, R45, 46, 47, 48
20	35697	RESISTOR, 75 Ω 1/2 W, 5 %	4	MRD 35676, R38, 39, 40, 41
19				
18	35757	RESISTOR, 24 kΩ, 1/2 W, 5 %	2	MRD 35676, R64, 65
17	55408	THERMISTOR	1	RT1
16	11613	RESISTOR - 39 kΩ, 1/2 W, 5 %	1	MRD 35676, R32
15	11507	100 Ω, 1/2 W, 5 %	3	MRD 35676, R22, 34, 63
14	35698	82 Ω, 1/2 W, 5 %	2	MRD 35676, R43, 44
13	35733	2.4 kΩ, 1/2 W, 5 %	2	MRD 35676, R19, 20
12	88211	820 Ω, 1/2 W, 5 %	2	MRD 35676, R16, 17
11	35769	75 kΩ, 1/2 W, 5 %	1	MRD 35676, R13
10	10074	4.7 kΩ, 1/2 W, 5 %	3	MRD 35676, R12, 25, 26
9	57791	TRIM POT. 500 Ω	1	R10
8	10073	20 kΩ, 1/2 W, 5 %	4	MRD 35676, R9, 21, 24
7	36921	2.4 kΩ, 2 W, 5 %	2	MRD 36864, R7, 8
6	35693	51 Ω, 1/2 W, 5 %	3	MRD 35676, R6, 72, 73
5	11461	5.1 kΩ, 1/2 W, 5 %	1	MRD 35676, R5
4	11464	10 kΩ, 1/2 W, 5 %	7	MRD 35676, R4, 14, 15, 18, 23, 27, 30
3	35739	510 kΩ, 1/2 W, 5 %	1	MRD 35676, R2
2	10940	RESISTOR - 1 kΩ, 1/2 W, 5 %	3	MRD 35676, R3, 68, 69
1	57986	P.C. BOARD	1	

BILL OF MATERIAL

6502

SEE SHEET 1 OF 2

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. BREAK SHARP EDGES .015

DECIMALS .XX ±.03 .XXX ±.005 FRACTIONS ±1/32 ANGLES ±1°

TOL. STANDARD

MATERIAL FINISH

DRAWN

CHECK

DESIGN

ENGR.

MFG.

EQUIPMENT DRAWING

JBL JAMES B. LANSING SOUND, INC. SUN VALLEY, CALIF.

P.C.B. ASSY

SIZE D

DRAWING NUMBER SC37

REV 2

SCALE

WEIGHT

SHEET 2 OF 2

ITEM	ZONE	LTR.	CHANGE	DATE	BY

QTY	MODEL	NEXT ASSY	APPLICATION

SIGNATURE ACCEPTANCE RECEIVER NO. A 6647