

"KBA-60 P.C. BOARD ASSY" # 07-619-01

PARTS LIST

Part	Description	Part Number
J4	1/2" Jack	39-012-01
J5	1/2" Jack	39-012-01
J6	1/2" Jack	39-012-01
J7	1/2" stereo Jack	39-114-02
J8	1/2" Jack	39-012-01
J9	2 PIN HDR	17-311-02
J10-14	.250 TAB	17-901-01
J15-17	"	17-901-01
J18-21	.127 TAB	17-894-01
IC1-3	UA4558	37-458-01
IC4	NE5532	37-532-01
AP-1	10K1	71-103-02
F1	2A	23-302-01
J1	1/2" Jack	39-116-01
J2	1/2" Jack	39-116-01
J3	1/2" Jack	39-116-01
	P.C.B.	064619-01
OC-1	VTL-5C7	66-100-01
Q1	2N5210	96-510-01
Q2	2N5210	96-510-01
Q3	2N5210	96-510-01
Q4	2N5087	96-587-01
Q5	2N5087	96-587-01
Q6	MPS U-06	96-588-02
Q7	2N3402	96-342-01
Q8	TIP108	96-030-01
Q9	TIP29B	96-029-01
Q10	2N3055	96-355-01
Q11	2N3055	96-355-01
Q12	2N5088	96-588-01
Q13	2N5087	96-587-01
Q14	2N5460	96-560-01
D1-4	RED LED	97-224-01
D5	GRN LED	97-225-01
D6	1N914	21A914-01
D7-10	1N5392	21A192-01
D11,12	1N4754	21A145-01
D13-18	1N914	21A914-01
D19-22	1N914	21A914-01

TEST POINT DATA

TP	Level	Impedance
TP1	144 mV RMS	TP8 + 26.15 VDC
TP2	94.3 mV RMS	TP9 -25.86VDC
TP3	94.3 mV RMS	TP10 +16.2 VDC
TP4	95 mV RMS	TP11 -17VDC
TP5	22.5 mV RMS	TP12 .44 VRMS
TP6	3-30 mV RMS	TP13 286 mV RMS
TP7	2.3 VRMS	

Input 10mV RMS @ 1KHz Line 120V, ALL GAINS "10", ALL REVERB SEND "10", MASTER REVERB "0", EQ "FLAT", 4 OHM LOAD.

*Reverb return voltage depends on the reverb unit and varies widely with frequency.

Input in Channel A **Input is Channel C.

KBA-60 PREAMPLIFIER

REVISIONS:
 12-16-88 DC
 01-27-88 DF

SJM ELECTRONICS
 1400 FERGUSON AVE.
 ST. LOUIS, MO. 63133

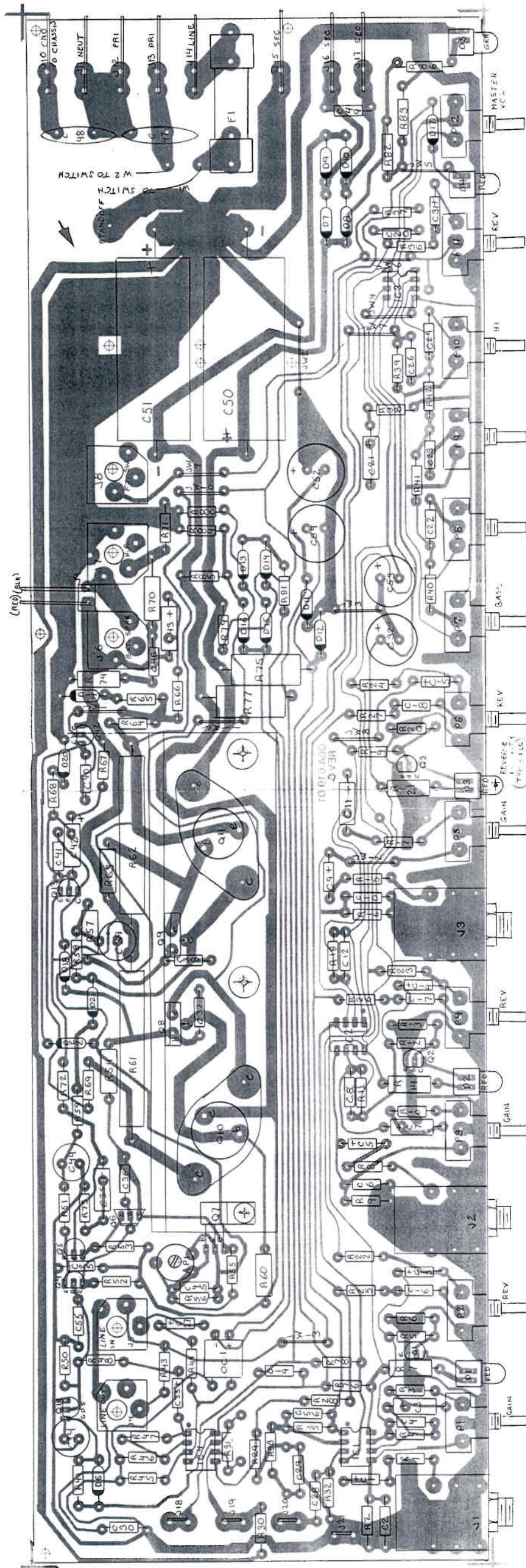
RPM 12/28/88 JSR / LofE
 DRAWING NO.: 16-227-01

NOTES:

- Except as indicated, all resistors in Ohms @ 1/2 watt 5% tolerance.
- Voltages measured with: 1 Megohm input oscilloscope (AC), 10 Megohm input D.V.M. (DC). Take loading into account if using other equipment.
- DC voltage: No signal input
 Bias voltage: No signal, no load, @ 120vac line
 At Turn-on: 3.5mv across R62
 After 30min: 6mv across R62

4) Typical IC1-3, Pin4=-15V, Pin8=+15V;
 IC4 Pin6=-10V, Pin8=+16V.

Top View



PART #	DESCRIPTION	SLM PART #	DESCRIPTION	SLM PART #	DESCRIPTION	PART #	DESCRIPTION	SLM PART #	DESCRIPTION	PART #	DESCRIPTION	SLM PART #	DESCRIPTION	PART #	DESCRIPTION	SLM PART #	DESCRIPTION
R1	22K	76-223-01	R51	12K	C6	50p	10A500-21	C51	4700/35	U1	74105	76-123-01	74105	U2	74105	76-123-01	74105
R2	220K	76-224-01	R52	820	C7	10/16	12A106-11	C52	100/35	U3	74105	76-124-01	74105	U4	74105	76-124-01	74105
R3	1.5K	76-152-01	R53	10 1/2W	C8	10p	10A106-21	C53	47/35	U5	74105	76-153-01	74105	U6	74105	76-153-01	74105
R4	3.3K	76-153-01	R54	220 1/2W	C9	50p	10A500-31	C54	100/35	U7	74105	76-154-01	74105	U8	74105	76-154-01	74105
R5	1K	76-102-01	R55	3.3K	C10	50p	10A106-11	C55	100/35	U9	74105	76-102-01	74105	U10	74105	76-102-01	74105
R6	1K	76-102-01	R56	1.5K	C11	10p	10A106-21	C56	4.7p	U11	74105	76-103-01	74105	U12	74105	76-103-01	74105
R7	1.5K 1/2W	76-152-01	R57	1.5K 1/2W	C12	10p	10A106-31	C57	4.7p	U13	74105	76-152-01	74105	U14	74105	76-152-01	74105
R8	22K	76-223-01	R58	680	C13	1/50	10A106-41	C58	4.7p	U15	74105	76-223-01	74105	U16	74105	76-223-01	74105
R9	220K	76-224-01	R59	220	C14	1/50	12A105-51	C59	4.7p	U17	74105	76-224-01	74105	U18	74105	76-224-01	74105
R10	1.5K	76-152-01	R60	100 1/2W	C15	1/50	12A105-61	C60	4.7p	U19	74105	76-152-01	74105	U20	74105	76-152-01	74105
R11	1.5K	76-152-01	R61	3.3 1/2W	C16	1/50	12A105-71	C61	4.7p	U21	74105	76-153-01	74105	U22	74105	76-153-01	74105
R12	3.3K	76-330-01	R62	3.3 1/2W	C17	1/50	10A473-11	C62	4.7p	U23	74105	76-330-01	74105	U24	74105	76-330-01	74105
R13	3.3K	76-330-01	R63	100 1/2W	C18	1/50	10A473-21	C63	4.7p	U25	74105	76-331-01	74105	U26	74105	76-331-01	74105
R14	4.7K	76-102-01	R64	100 1/2W	C19	1/50	10A473-31	C64	4.7p	U27	74105	76-102-01	74105	U28	74105	76-102-01	74105
R15	1.5K 1/2W	76-152-01	R65	330	C20	1/50	10A473-41	C65	4.7p	U29	74105	76-153-01	74105	U30	74105	76-153-01	74105
R16	22K	76-223-01	R66	3.3K	C21	1/50	10A473-51	C66	4.7p	U31	74105	76-223-01	74105	U32	74105	76-223-01	74105
R17	220K	76-224-01	R67	75	C22	1/50	10A473-61	C67	4.7p	U33	74105	76-224-01	74105	U34	74105	76-224-01	74105
R18	1.5K	76-152-01	R68	75	C23	1/50	10A473-71	C68	4.7p	U35	74105	76-153-01	74105	U36	74105	76-153-01	74105
R19	58K	76-580-01	R69	3.3K	C24	1/50	10A473-81	C69	4.7p	U37	74105	76-580-01	74105	U38	74105	76-580-01	74105
R20	58K	76-580-01	R70	330	C25	1/50	10A473-91	C70	4.7p	U39	74105	76-581-01	74105	U40	74105	76-581-01	74105
R21	4.7K	76-102-01	R71	470 1/2W	C26	1/50	10A106-11	C71	4.7p	U41	74105	76-102-01	74105	U42	74105	76-102-01	74105
R22	1.5K 1/2W	76-152-01	R72	100	C27	1/50	10A106-21	C72	4.7p	U43	74105	76-153-01	74105	U44	74105	76-153-01	74105
R23	68K	76-683-01	R73	27K	C28	1/50	10A106-31	C73	4.7p	U45	74105	76-683-01	74105	U46	74105	76-683-01	74105
R24	47K	76-473-01	R74	680	C29	1/50	10A106-41	C74	4.7p	U47	74105	76-473-01	74105	U48	74105	76-473-01	74105
R25	47K	76-473-01	R75	10 1/2W	C30	1/50	10A106-51	C75	4.7p	U49	74105	76-474-01	74105	U50	74105	76-474-01	74105
R26	120K	76-120-01	R76	220 1/2W	C31	1/50	10A106-61	C76	4.7p	U51	74105	76-120-01	74105	U52	74105	76-120-01	74105
R27	120K	76-120-01	R77	220 1/2W	C32	1/50	10A106-71	C77	4.7p	U53	74105	76-121-01	74105	U54	74105	76-121-01	74105
R28	220	76-221-01	R78	47	C33	1/50	10A106-81	C78	4.7p	U55	74105	76-221-01	74105	U56	74105	76-221-01	74105
R29	220K	76-223-01	R79	1K 1/2	C34	1/50	10A106-91	C79	4.7p	U57	74105	76-222-01	74105	U58	74105	76-222-01	74105
R30	22	76-220-01	R80	2.7K 1/2	C35	1/50	10A106-101	C80	4.7p	U59	74105	76-223-01	74105	U60	74105	76-223-01	74105
R31	580	76-581-01	R81	470 1/2W	C36	1/50	10A106-111	C81	4.7p	U61	74105	76-581-01	74105	U62	74105	76-581-01	74105
R32	580	76-581-01	R82	470 1/2W	C37	1/50	10A106-121	C82	4.7p	U63	74105	76-582-01	74105	U64	74105	76-582-01	74105
R33	6.8K	76-682-01	R83	470 1/2W	C38	1/50	10A106-131	C83	4.7p	U65	74105	76-682-01	74105	U66	74105	76-682-01	74105
R34	6.8K	76-682-01	R84	470 1/2W	C39	1/50	10A106-141	C84	4.7p	U67	74105	76-683-01	74105	U68	74105	76-683-01	74105
R35	6.8K	76-683-01	R85	2.4K 1/2	C40	1/50	10A106-151	C85	4.7p	U69	74105	76-684-01	74105	U70	74105	76-684-01	74105
R36	4.7K	76-472-01	R86	1K 1/2	C41	1/50	10A106-161	C86	4.7p	U71	74105	76-472-01	74105	U72	74105	76-472-01	74105
R37	68K	76-683-01	R87	77-471-01	C42	1/50	10A106-171	C87	4.7p	U73	74105	76-683-01	74105	U74	74105	76-683-01	74105
R38	1.8K	76-182-01	R88	77-472-01	C43	1/50	10A106-181	C88	4.7p	U75	74105	76-182-01	74105	U76	74105	76-182-01	74105
R39	1.8K	76-182-01	R89	77-473-01	C44	1/50	10A106-191	C89	4.7p	U77	74105	76-183-01	74105	U78	74105	76-183-01	74105
R40	1.8K	76-182-01	R90	77-474-01	C45	1/50	10A106-201	C90	4.7p	U79	74105	76-184-01	74105	U80	74105	76-184-01	74105
R41	180K	76-180-01	R91	77-475-01	C46	1/50	10A106-211	C91	4.7p	U81	74105	76-185-01	74105	U82	74105	76-185-01	74105
R42	180K	76-180-01	R92	77-476-01	C47	1/50	10A106-221	C92	4.7p	U83	74105	76-186-01	74105	U84	74105	76-186-01	74105
R43	470K	76-470-01	R93	77-477-01	C48	1/50	10A106-231	C93	4.7p	U85	74105	76-471-01	74105	U86	74105	76-471-01	74105
R44	680	76-681-01	R94	77-478-01	C49	1/50	10A106-241	C94	4.7p	U87	74105	76-681-01	74105	U88	74105	76-681-01	74105
R45	7K	76-7K-01	R95	77-479-01	C50	1/50	10A106-251	C95	4.7p	U89	74105	76-7K-01	74105	U90	74105	76-7K-01	74105
R46	7K	76-7K-01	R96	77-480-01						U91	74105	76-7K-01	74105	U92	74105	76-7K-01	74105
R47	2.7K	76-272-01	R97	77-481-01						U93	74105	76-272-01	74105	U94	74105	76-272-01	74105
R48	2.7K	76-272-01	R98	77-482-01						U95	74105	76-273-01	74105	U96	74105	76-273-01	74105
R49	12K	76-123-01	R99	77-483-01						U97	74105	76-124-01	74105	U98	74105	76-124-01	74105
R50	220K	76-224-01	R100	77-484-01						U99	74105	76-125-01	74105	U100	74105	76-125-01	74105
R51	22K	76-223-01	R101	77-485-01						U101	74105	76-226-01	74105	U102	74105	76-226-01	74105

Notes: 1) Unless otherwise specified, all resistors are in ohms, k watt, & watt, 5%.
All capacitors are in Microfarads

TOLERANCES		REVISIONS	
NO	DATE	NO	DATE
1	3.18.73	1	3.18.73
2	4.3.87	2	4.3.87
3		3	
4		4	

KBA 60 PICTORIAL
 ASSY # 07-619-01
 1980 Serial
 AH Electronics
 SCALE: 1:1
 DRAWING NO: 07-619-01
 DATE: 7-6-19-01

ART. REV
 ART. REV