

GALLIEN-KRUEGER		PRODUCTION CHANGE ORDER		PCO#: 21	
DATE: 8/9/90		ASSEMBLY #: 206-0064 to 0080		MODEL#: <i>in Amp PA</i>	
ASSEMBLY DESCRIPTION:				PAGE <u>1</u> OF <u>1</u>	
AFFECTS OPTIONS: <input checked="" type="checkbox"/> ALL <input type="checkbox"/> 100V <input type="checkbox"/> 120V <input type="checkbox"/> 220V <input type="checkbox"/> 240V <input type="checkbox"/> 50HZ <input type="checkbox"/> 60HZ					
TYPE OF CHANGE: <input checked="" type="checkbox"/> NECESSARY TO THE FUNCTION OF THE UNIT <input type="checkbox"/> IMPROVEMENT OR ADDITION TO THE UNIT <input type="checkbox"/> OTHER _____					
CHANGE TO BE IMPLEMENTED TO: <input checked="" type="checkbox"/> NEXT PRODUCTION RUN <input checked="" type="checkbox"/> ALL UNITS IN PRODUCTION <input type="checkbox"/> ALL UNITS IN STOCK <input checked="" type="checkbox"/> ALL UNITS BEING SERVICED (220V only) <input type="checkbox"/> OTHER _____			REMARKS: <i>Change as parts become available.</i>		
BEGINNING SERIAL NUMBER AFFECTED: _____					
DESCRIPTION OF CHANGE: <input type="checkbox"/> SEE PCO SUPPLEMENTS <input type="checkbox"/> CONTINUED ON PCO SUPPLEMENT PAGE _____ <i>Change C791 and C799 from 2200uf, 50V, to 1000 uf, 50V.</i>					
REASON FOR CHANGE: <i>Reduces secondary inrush current, reducing stress on secondary diodes in P.S., D537 and D538.</i>					
PARTS ADDED				PARTS DELETED	
PART#	DESCRIPTION	QTY.	REF. DES.	PART#	DESCRIPTION
038-2108	1000uf, 50V	2	C791, C799	038-2228	2200uf, 50V
<input type="checkbox"/> CONTINUED ON PAGE _____				<input type="checkbox"/> CONTINUED ON PAGE _____	
AFFECTED AREAS		DONE BY	DATE	AFFECTED AREAS (CONT)	
<input checked="" type="checkbox"/> CIRCUIT SCHEMATIC				<input type="checkbox"/>	
<input checked="" type="checkbox"/> BILL OF MATERIAL				<input type="checkbox"/>	
<input type="checkbox"/> AUTO INSERTER				<input type="checkbox"/>	
<input checked="" type="checkbox"/> SAMPLE CHANGE				DOCUMENT DIST. LIST # COPIES	
<input type="checkbox"/> TEST PROCEDURE				<input checked="" type="checkbox"/> GK USA	
<input checked="" type="checkbox"/> COMP. CONTROL FORM				<input checked="" type="checkbox"/> GK EUROPE	
<input type="checkbox"/> FAB DRAWING				<input checked="" type="checkbox"/> GK CAMPBELL	
<input type="checkbox"/> PUNCH PROGRAM				<input checked="" type="checkbox"/> ENGINEERING	
<input type="checkbox"/> PUNCH SAMPLE				<input type="checkbox"/> FABRICATION	
<input type="checkbox"/> ASSEMBLY PROCEDURES				<input checked="" type="checkbox"/> PRODUCTION	
<input type="checkbox"/> ARTWORK				<input type="checkbox"/> OUTSIDE SUPPLIERS	
<input checked="" type="checkbox"/> SILKSCREEN TEMPLATE				<input type="checkbox"/>	
<input type="checkbox"/>				<input type="checkbox"/>	
DRAWING(S) SHOWING MODIFICATION ATTACHED: <input type="checkbox"/> NO <input type="checkbox"/> YES-SPECIFY: _____					
WRITTEN BY: <i>A. Mihalika</i>			DEPT: <i>Eng.</i>		DATE: 8/9/90
REVIEWED/APPROVED BY: _____			DEPT: _____		DATE: _____

GALLIEN-KRUEGER		PRODUCTION CHANGE ORDER		PCO#: 23			
DATE:		ASSEMBLY #: 145-0071		MODEL#: MICRO SERIES			
ASSEMBLY DESCRIPTION:				PAGE ____ OF ____			
AFFECTS OPTIONS: <input checked="" type="checkbox"/> ALL <input type="checkbox"/> 100V <input type="checkbox"/> 120V <input type="checkbox"/> 220V <input type="checkbox"/> 240V <input type="checkbox"/> 50HZ <input type="checkbox"/> 60HZ							
TYPE OF CHANGE: <input checked="" type="checkbox"/> NECESSARY TO THE FUNCTION OF THE UNIT <input type="checkbox"/> IMPROVEMENT OR ADDITION TO THE UNIT <input type="checkbox"/> OTHER _____							
CHANGE TO BE IMPLEMENTED TO: <input type="checkbox"/> NEXT PRODUCTION RUN <input checked="" type="checkbox"/> ALL UNITS IN PRODUCTION <input checked="" type="checkbox"/> ALL UNITS IN STOCK 240V <input checked="" type="checkbox"/> ALL UNITS BEING SERVICED 240V. <input type="checkbox"/> OTHER _____			REMARKS: RETRO FIT NECESSARY ONLY ON 240V UNITS. THE 117V UNITS ARN'T FAILING.				
BEGINNING SERIAL NUMBER AFFECTED:							
DESCRIPTION OF CHANGE: <input type="checkbox"/> SEE PCO SUPPLEMENTS <input type="checkbox"/> CONTINUED ON PCO SUPPLEMENT PAGE ____ <div style="text-align: center;">REVISION UPDATE FROM REV C TO REV E. NEW BOARD AND SOME PARTS CHANGES.</div>							
REASON FOR CHANGE: REDUCE IN RUSH THRU BUK 456'S. CURRENTLY 18A (117V), 25A (240V), DOWN TO 5A (117V OR 240V). THE 240V INRUSH WAS BLOWING THE POWER SUPPLYS IN EUROPE.							
PARTS ADDED				PARTS DELETED			
PART#	DESCRIPTION	QTY.	REF. DES.	PART#	DESCRIPTION	QTY.	REF. DES.
054-4703	47K 1W	2	RS18, S19	053-1504	150K 1W	1	RS14
051-1002	1K 1/2W	1	RS08	011-0088	TIP 50	1	QS18
051-1004	100K	1	RS14	020-1103	1N914	1	DS16
054-100	.12 1W	1	RS09	020-0110	1N962B	1	DS17
015-0143	1.5KE400C	1	DS23	093-0031	3PIN X.2	2	JUS27, S24
019-0110	1N4741	1	DS07	093-0067	.2 SHUNT	2	
010-0012	MPS A06	1	QS15				
030-2101	100PF	1	CS11				
038-2335	335	1	CS12				
<input type="checkbox"/> CONTINUED ON PAGE ____				<input type="checkbox"/> CONTINUED ON PAGE ____			
AFFECTED AREAS		DONE BY	DATE	AFFECTED AREAS (CONT)		DONE BY	DATE
<input checked="" type="checkbox"/> CIRCUIT SCHEMATIC		ITTUR	9-25-90	<input type="checkbox"/>			
<input checked="" type="checkbox"/> BILL OF MATERIAL		ITTUR	9-25-90	<input type="checkbox"/>			
<input checked="" type="checkbox"/> AUTO INSERTER		RAWDY		<input type="checkbox"/>			
<input checked="" type="checkbox"/> SAMPLE CHANGE		ITTUR	9-25-90	DOCUMENT DIST. LIST		# COPIES	
<input checked="" type="checkbox"/> TEST PROCEDURE		GALLIEN		<input checked="" type="checkbox"/> GK USA		1	
<input checked="" type="checkbox"/> COMP. CONTROL FORM		ITTUR	9-25-90	<input type="checkbox"/> SERVICE CENTERS			
<input checked="" type="checkbox"/> FAB DRAWING		ITTUR	9-25-90	<input checked="" type="checkbox"/> GK EUROPE		15	
<input type="checkbox"/> PUNCH PROGRAM				<input checked="" type="checkbox"/> GK CAMPBELL		1	
<input type="checkbox"/> PUNCH SAMPLE				<input type="checkbox"/> ENGINEERING			
<input type="checkbox"/> ASSEMBLY PROCEDURES				<input type="checkbox"/> FABRICATION			
<input checked="" type="checkbox"/> ARTWORK		ITTUR	9-25-90	<input checked="" type="checkbox"/> PRODUCTION		1	
<input type="checkbox"/> SILKSCREEN TEMPLATE				<input type="checkbox"/> OUTSIDE SUPPLIERS			
<input type="checkbox"/>				<input checked="" type="checkbox"/> GALLIEN		1	
DRAWING(S) SHOWING MODIFICATION ATTACHED: <input type="checkbox"/> NO <input type="checkbox"/> YES - SPECIFY:							
WRITTEN BY: R.A. GALLIEN				DEPT:		DATE: 9-25-90	
REVIEWED/APPROVED BY:				DEPT:		DATE:	

GALLIEN-KRUEGER		PRODUCTION CHANGE ORDER		PCO#: 24	
DATE: 9/25/90		ASSEMBLY #: 206-0064D, 206-0074D		MODEL#: Micro Lead	
ASSEMBLY DESCRIPTION: Power Amp for Micro Lead				PAGE 1 OF 1	
AFFECTS OPTIONS: <input checked="" type="checkbox"/> ALL <input type="checkbox"/> 100V <input type="checkbox"/> 120V <input type="checkbox"/> 220V <input type="checkbox"/> 240V <input type="checkbox"/> 50HZ <input type="checkbox"/> 60HZ					
TYPE OF CHANGE: <input type="checkbox"/> NECESSARY TO THE FUNCTION OF THE UNIT <input checked="" type="checkbox"/> IMPROVEMENT OR ADDITION TO THE UNIT <input type="checkbox"/> OTHER _____					
CHANGE TO BE IMPLEMENTED TO: <input checked="" type="checkbox"/> NEXT PRODUCTION RUN <input checked="" type="checkbox"/> ALL UNITS IN PRODUCTION <input checked="" type="checkbox"/> ALL UNITS IN STOCK <input type="checkbox"/> ALL UNITS BEING SERVICED <input type="checkbox"/> OTHER _____			REMARKS:		
BEGINNING SERIAL NUMBER AFFECTED:					
DESCRIPTION OF CHANGE: <input type="checkbox"/> SEE PCO SUPPLEMENTS <input type="checkbox"/> CONTINUED ON PCO SUPPLEMENT PAGE ____ 1. Change R674 and R714 (both 220R res.) to 3.3K resistors. (R714 is not on the mono version - 206-0074)					
REASON FOR CHANGE: 1. Reduces "Presence" control in power amp					
PARTS ADDED				PARTS DELETED	
PART#	DESCRIPTION	QTY.	REF. DES.	PART#	DESCRIPTION
051-3302	3.3K res	2	R674, R714	051-2201	220R res
<input type="checkbox"/> CONTINUED ON PAGE ____				<input type="checkbox"/> CONTINUED ON PAGE ____	
AFFECTED AREAS		DONE BY	DATE	AFFECTED AREAS (CONT)	
<input checked="" type="checkbox"/> CIRCUIT SCHEMATIC				<input type="checkbox"/>	
<input checked="" type="checkbox"/> BILL OF MATERIAL				<input type="checkbox"/>	
<input checked="" type="checkbox"/> AUTO INSERTER				<input type="checkbox"/>	
<input checked="" type="checkbox"/> SAMPLE CHANGE				DOCUMENT DIST. LIST # COPIES	
<input type="checkbox"/> TEST PROCEDURE				<input checked="" type="checkbox"/> GK USA	
<input type="checkbox"/> COMP. CONTROL FORM				<input type="checkbox"/> SERVICE CENTERS	
<input type="checkbox"/> FAB DRAWING				<input checked="" type="checkbox"/> GK EUROPE	
<input type="checkbox"/> PUNCH PROGRAM				<input checked="" type="checkbox"/> GK CAMPBELL	
<input type="checkbox"/> PUNCH SAMPLE				<input type="checkbox"/> ENGINEERING	
<input type="checkbox"/> ASSEMBLY PROCEDURES				<input type="checkbox"/> FABRICATION	
<input type="checkbox"/> ARTWORK				<input type="checkbox"/> PRODUCTION	
<input type="checkbox"/> SILKSCREEN TEMPLATE				<input type="checkbox"/> OUTSIDE SUPPLIERS	
<input type="checkbox"/>				<input type="checkbox"/>	
DRAWING(S) SHOWING MODIFICATION ATTACHED: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES - SPECIFY:					
WRITTEN BY: Michael Johns			DEPT: Eng		DATE: 9/25/90
REVIEWED/APPROVED BY:			DEPT:		DATE:

GALLIEN-KRUEGER		PRODUCTION CHANGE ORDER		PCO#: 26			
DATE: 10/8/90		ASSEMBLY #: 206-0071 Rev E		MODEL#: μ Amp P.S.			
ASSEMBLY DESCRIPTION:				PAGE 1 OF 1			
AFFECTS OPTIONS: <input type="checkbox"/> ALL <input type="checkbox"/> 100V <input type="checkbox"/> 120V <input type="checkbox"/> 220V <input type="checkbox"/> 240V <input type="checkbox"/> 50HZ <input type="checkbox"/> 60HZ							
TYPE OF CHANGE: <input checked="" type="checkbox"/> NECESSARY TO THE FUNCTION OF THE UNIT <input type="checkbox"/> IMPROVEMENT OR ADDITION TO THE UNIT <input type="checkbox"/> OTHER _____							
CHANGE TO BE IMPLEMENTED TO: <input checked="" type="checkbox"/> NEXT PRODUCTION RUN <input checked="" type="checkbox"/> ALL UNITS IN PRODUCTION <input type="checkbox"/> ALL UNITS IN STOCK <input type="checkbox"/> ALL UNITS BEING SERVICED <input type="checkbox"/> OTHER _____			REMARKS: Q515 with low β may not be turned on hard enough To prevent current limit with 2r load. New values provide same time constant.				
BEGINNING SERIAL NUMBER AFFECTED: _____							
DESCRIPTION OF CHANGE: <input type="checkbox"/> SEE PCO SUPPLEMENTS <input type="checkbox"/> CONTINUED ON PCO SUPPLEMENT PAGE _____ Change R514 from 100K to 33K. Change C512 from 335 to 106 electrolytic.							
REASON FOR CHANGE: Power supply may have buzzed when driving 2r load. New values prevent current limit of power supply after initial power-up.							
PARTS ADDED				PARTS DELETED			
PART#	DESCRIPTION	QTY.	REF. DES.	PART#	DESCRIPTION	QTY.	REF. DES.
038-0106	10 μ f, 16V axial	1	C512	038-2335	3.3 μ f, 50V axial	1	C512
051-3303	33K, 1/4W	1	R514	051-1004	100K, 1/4W	1	R514
<input type="checkbox"/> CONTINUED ON PAGE _____				<input type="checkbox"/> CONTINUED ON PAGE _____			
AFFECTED AREAS		DONE BY	DATE	AFFECTED AREAS (CONT)		DONE BY	DATE
<input checked="" type="checkbox"/> CIRCUIT SCHEMATIC				<input type="checkbox"/>			
<input checked="" type="checkbox"/> BILL OF MATERIAL				<input type="checkbox"/>			
<input checked="" type="checkbox"/> AUTO INSERTER				<input type="checkbox"/>			
<input checked="" type="checkbox"/> SAMPLE CHANGE				DOCUMENT DIST. LIST		# COPIES	
<input type="checkbox"/> TEST PROCEDURE				<input checked="" type="checkbox"/> GK USA			
<input type="checkbox"/> COMP. CONTROL FORM				<input checked="" type="checkbox"/> GK EUROPE			
<input type="checkbox"/> FAB DRAWING				<input checked="" type="checkbox"/> GK CAMPBELL			
<input type="checkbox"/> PUNCH PROGRAM				<input checked="" type="checkbox"/> ENGINEERING			
<input type="checkbox"/> PUNCH SAMPLE				<input type="checkbox"/> FABRICATION			
<input type="checkbox"/> ASSEMBLY PROCEDURES				<input checked="" type="checkbox"/> PRODUCTION			
<input type="checkbox"/> ARTWORK				<input type="checkbox"/> OUTSIDE SUPPLIERS			
<input checked="" type="checkbox"/> SILKSCREEN TEMPLATE				<input type="checkbox"/>			
<input type="checkbox"/>				<input type="checkbox"/>			
DRAWING(S) SHOWING MODIFICATION ATTACHED: <input type="checkbox"/> NO <input type="checkbox"/> YES - SPECIFY: _____							
WRITTEN BY: A. Mihalka				DEPT: Eng.		DATE: 10/8/90	
REVIEWED/APPROVED BY: Robert Valle				DEPT: _____		DATE: 10/8/90	

GALLIEN-KRUEGER		PRODUCTION CHANGE ORDER		PCO#: 27			
DATE: 1-10-91		ASSEMBLY #: 206-0064, 0074 TO 0080		MODEL#: MLS & E			
ASSEMBLY DESCRIPTION: MONO & STEREO, LOW DAMPING P. AMP				PAGE 1 OF 4			
AFFECTS OPTIONS: <input checked="" type="checkbox"/> ALL <input type="checkbox"/> 100V <input type="checkbox"/> 120V <input type="checkbox"/> 220V <input type="checkbox"/> 240V <input type="checkbox"/> 50HZ <input type="checkbox"/> 60HZ							
TYPE OF CHANGE: <input type="checkbox"/> NECESSARY TO THE FUNCTION OF THE UNIT <input checked="" type="checkbox"/> IMPROVEMENT OR ADDITION TO THE UNIT <input type="checkbox"/> OTHER _____							
CHANGE TO BE IMPLEMENTED TO: <input type="checkbox"/> NEXT PRODUCTION RUN <input type="checkbox"/> ALL UNITS IN PRODUCTION <input type="checkbox"/> ALL UNITS IN STOCK <input type="checkbox"/> ALL UNITS BEING SERVICED <input checked="" type="checkbox"/> OTHER SEE REMARKS			REMARKS: THESE CHANGES ARE TO BE MADE TO POWER AMPS WHEN USED WITH POWER SUPPLIES HAVING 080-0025-02 TRANSFORMERS, WHICH HAVE 42 PRIMARY TURNS AND INCREASED POWER OUTPUT. CHANGES APPLY TO MONO AND STEREO UNITS. TIP35C AND TIP36C, (REQUIRING SPECIAL MOUNTING HARDWARE) MAY BE USED (CONTINUE PG.2)				
BEGINNING SERIAL NUMBER AFFECTED:							
DESCRIPTION OF CHANGE: <input type="checkbox"/> SEE PCO SUPPLEMENTS <input checked="" type="checkbox"/> CONTINUED ON PCO SUPPLEMENT PAGE 2							
NOTE: REFERENCE DESIGNATORS FOR STEREO AMPS ARE DENOTED BY *.							
1. CHANGE R655B, R602, R612 & R683 FROM: 0.33Ω, 5W, 10%. TO: 0.1Ω, 1W, 5%.							
2. CHANGE R627, R630, *R690 & *R661 FROM: 470Ω. TO: 12KΩ.							
REASON FOR CHANGE: CONVERTING TO HIGHER POWER WITH NEW TRANSFORMER. NEW OUTPUT TRANSISTORS ARE MORE RUGGED AT 25A, 100V.							
PARTS ADDED							
PART#	DESCRIPTION	QTY.	REF. DES.	PART#	DESCRIPTION	QTY.	REF. DES.
051-1203	12KΩ	2	R627, R630	051-4701	470Ω, 1/4W	2	R627, R630
		*2	*R690, *R661			*2	*R690 *R661
054-100	0.1Ω, 1W, 5%	4	R655B, R602, R612, R683	056-330	.33Ω, 5W	4	R655B, R602, R612, R683
031-2227	227, 50V	1	C616	031-1227	227, 25V	1	C616
		*1	*C659			*1	*C659
<input checked="" type="checkbox"/> CONTINUED ON PAGE 2				<input checked="" type="checkbox"/> CONTINUED ON PAGE 2			
AFFECTED AREAS		DONE BY	DATE	AFFECTED AREAS (CONT)		DONE BY	DATE
<input checked="" type="checkbox"/> CIRCUIT SCHEMATIC				<input type="checkbox"/>			
<input checked="" type="checkbox"/> BILL OF MATERIAL				<input type="checkbox"/>			
<input checked="" type="checkbox"/> AUTO INSERTER				<input type="checkbox"/>			
<input checked="" type="checkbox"/> SAMPLE CHANGE				DOCUMENT DIST. LIST		# COPIES	
<input checked="" type="checkbox"/> TEST PROCEDURE				<input checked="" type="checkbox"/> GK USA			
<input checked="" type="checkbox"/> COMP. CONTROL FORM		AM	1-10-91	<input checked="" type="checkbox"/> SERVICE CENTERS			
<input type="checkbox"/> FAB DRAWING				<input checked="" type="checkbox"/> GK EUROPE			
<input type="checkbox"/> PUNCH PROGRAM				<input checked="" type="checkbox"/> GK CAMPBELL			
<input type="checkbox"/> PUNCH SAMPLE				<input checked="" type="checkbox"/> ENGINEERING			
<input type="checkbox"/> ASSEMBLY PROCEDURES				<input type="checkbox"/> FABRICATION			
<input type="checkbox"/> ARTWORK				<input checked="" type="checkbox"/> PRODUCTION			
<input checked="" type="checkbox"/> SILKSCREEN TEMPLATE				<input type="checkbox"/> OUTSIDE SUPPLIERS			
<input type="checkbox"/>				<input type="checkbox"/>			
DRAWING(S) SHOWING MODIFICATION ATTACHED: <input type="checkbox"/> NO <input type="checkbox"/> YES-SPECIFY:							
WRITTEN BY: A. MIHALKA				DEPT: ENG'R.		DATE: 1-10-91	
REVIEWED/APPROVED BY:				DEPT:		DATE:	

GALLIEN-KRUEGER	PCO SUPPLEMENT	PAGE <u>2</u> OF <u>4</u> OF PCO# <u>27</u>					
DATE: <u>1-10-91</u>	MODEL#: <u>MLS & E</u>	BOARD#: <u>SEE PG. 1</u>					
<input type="checkbox"/> CHANGE TO BE IMPLEMENTED ON NEXT BOARD UPDATE (FROM# _____ TO _____)							
DESCRIPTION OF CHANGE: <input checked="" type="checkbox"/> CONTINUED FROM PAGE <u>1</u> <input type="checkbox"/> CONTINUED ON PAGE _____							
<u>3. CHANGE C616 & *C659 FROM: 227, 25V.</u> <u>TO: 227, 50V.</u>							
<u>4. CHANGE Q808 & Q759 FROM: TIP33C</u> <u>TO: TIP35C</u>							
<u>5. CHANGE Q824 & Q783 FROM: TIP34C</u> <u>TO: TIP36C</u>							
REASON FOR CHANGE: <input type="checkbox"/> CONTINUED FROM PAGE _____ <input type="checkbox"/> CONTINUED ON PAGE _____							
REMARKS: (CONTINUED FROM PG. 1) WITH -Ø1 TRANSFORMER, BUT TIP33C AND TIP34C SHALL NOT BE USED WITH -Ø2 TRANSFORMER.							
PARTS ADDED <input checked="" type="checkbox"/> CONTINUED FROM PAGE <u>1</u>				PARTS DELETED <input checked="" type="checkbox"/> CONTINUED FROM PAGE <u>1</u>			
PART#	DESCRIPTION	QTY.	REF. DES.	PART#	DESCRIPTION	QTY.	REF. DES.
Ø12-ØØ85	TIP35C	2	Q808, Q759	Ø12-ØØ36	TIP33C	2	Q808, Q759
Ø12-1Ø86	TIP36C	2	Q824, Q783	Ø12-1Ø37	TIP34C	2	Q824, Q783
<input type="checkbox"/> CONTINUED ON PAGE _____				<input type="checkbox"/> CONTINUED ON PAGE _____			
DRAWING(S) SHOWING MODIFICATION ATTACHED: <input type="checkbox"/> YES <input type="checkbox"/> NO							
WRITTEN BY: <u>A. MIHALKA</u>				DEPT: <u>ENG'R.</u>		DATE: <u>1-10-91</u>	
REVIEWED/APPROVED BY: _____				DEPT: _____		DATE: _____	

GALLIEN-KRUEGER		PRODUCTION CHANGE ORDER		PCO#: <u>ML-30</u> <u>MB-9</u>	
DATE: <u>6/25/91</u>		ASSEMBLY #: <u>406-0064D, 75D, 77D, 79D</u>		MODEL#: <u>MICRO SERIES</u>	
ASSEMBLY DESCRIPTION: <u>Power Amp 406 0081D, 82D, 83D, 84D</u>				PAGE <u>1</u> OF <u>1</u>	
AFFECTS OPTIONS: <input type="checkbox"/> ALL <input type="checkbox"/> 100V <input type="checkbox"/> 120V <input type="checkbox"/> 220V <input type="checkbox"/> 240V <input type="checkbox"/> 50HZ <input type="checkbox"/> 60HZ					
TYPE OF CHANGE: <input type="checkbox"/> NECESSARY TO THE FUNCTION OF THE UNIT <input checked="" type="checkbox"/> IMPROVEMENT OR ADDITION TO THE UNIT <input type="checkbox"/> OTHER _____					
CHANGE TO BE IMPLEMENTED TO: <input checked="" type="checkbox"/> NEXT PRODUCTION RUN <input checked="" type="checkbox"/> ALL UNITS IN PRODUCTION <input type="checkbox"/> ALL UNITS IN STOCK <input checked="" type="checkbox"/> ALL UNITS BEING SERVICED <input type="checkbox"/> OTHER _____			REMARKS: <u>THIS CHANGE AFFECTS ALL</u> <u>MICRO SERIES POWERAMPS.</u> <u>MICRO LEAD - STEREO & MONO</u> <u>MICRO BASS -</u> <u>MICRO POWER - STEREO & MONO</u>		
BEGINNING SERIAL NUMBER AFFECTED: _____					
DESCRIPTION OF CHANGE: <input type="checkbox"/> SEE PCO SUPPLEMENTS <input type="checkbox"/> CONTINUED ON PCO SUPPLEMENT PAGE _____ <u>ADD A 224 FROM U605 PIN 3 TO GROUND. BEST POINT</u> <u>IS TO SOLDER CAP ACROSS R812 - R813.</u>					
REASON FOR CHANGE: <u>TO ELIMINATE POWER AMP SHUT DOWN DUE TO</u> <u>TRANSIENTS ON THE LINE. THE SHUT DOWN LATCH</u> <u>U605 IS SENSITIVE TO LINE SPIKS.</u>					
PARTS ADDED				PARTS DELETED	
PART#	DESCRIPTION	QTY.	REF. DES.	PART#	DESCRIPTION
<u>030-2224</u>	<u>224 CER.</u>	<u>1</u>	<u>C812A</u>		
<input type="checkbox"/> CONTINUED ON PAGE _____				<input type="checkbox"/> CONTINUED ON PAGE _____	
AFFECTED AREAS		DONE BY	DATE	AFFECTED AREAS (CONT)	
<input checked="" type="checkbox"/> CIRCUIT SCHEMATIC		<u>RAG</u>		<input type="checkbox"/>	
<input checked="" type="checkbox"/> BILL OF MATERIAL		<u>RAG</u>		<input type="checkbox"/>	
<input type="checkbox"/> AUTO INSERTER				<input type="checkbox"/>	
<input checked="" type="checkbox"/> SAMPLE CHANGE		<u>RAG</u>		DOCUMENT DIST. LIST	
<input type="checkbox"/> TEST PROCEDURE				# COPIES	
<input type="checkbox"/> COMP. CONTROL FORM				<input checked="" type="checkbox"/> GK USA	
<input type="checkbox"/> FAB DRAWING				<input checked="" type="checkbox"/> GK EUROPE	
<input type="checkbox"/> PUNCH PROGRAM				<input checked="" type="checkbox"/> GK CAMPBELL	
<input type="checkbox"/> PUNCH SAMPLE				<input checked="" type="checkbox"/> ENGINEERING	
<input type="checkbox"/> ASSEMBLY PROCEDURES				<input type="checkbox"/> FABRICATION	
<input type="checkbox"/> ARTWORK				<input type="checkbox"/> PRODUCTION	
<input type="checkbox"/> SILKSCREEN TEMPLATE				<input type="checkbox"/> OUTSIDE SUPPLIERS	
<input type="checkbox"/>				<input checked="" type="checkbox"/> GALLIEN	
<input type="checkbox"/>				<input type="checkbox"/>	
DRAWING(S) SHOWING MODIFICATION ATTACHED: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES - SPECIFY:					
WRITTEN BY: <u>BOB GALLIEN</u>			DEPT:		DATE: <u>6/25/91</u>
REVIEWED/APPROVED BY: <u>RAG</u>			DEPT:		DATE: <u>6/25/91</u>

GALLIEN-KRUEGER		PRODUCTION CHANGE ORDER		PCO#: <u>ML-31</u> <u>MB-10</u>			
DATE: <u>6/25/91</u>		ASSEMBLY #: <u>406-0064D, 75D, 77D, 79D</u>		MODEL#: <u>MICRO SERIES</u>			
ASSEMBLY DESCRIPTION: <u>POWER AMP 406-0081D, 82D, 83D, 84D</u>				PAGE <u> </u> OF <u> </u>			
AFFECTS OPTIONS: <input type="checkbox"/> ALL <input type="checkbox"/> 100V <input type="checkbox"/> 120V <input type="checkbox"/> 220V <input type="checkbox"/> 240V <input type="checkbox"/> 50HZ <input type="checkbox"/> 60HZ							
TYPE OF CHANGE: <input type="checkbox"/> NECESSARY TO THE FUNCTION OF THE UNIT <input checked="" type="checkbox"/> IMPROVEMENT OR ADDITION TO THE UNIT <input type="checkbox"/> OTHER <u> </u>							
CHANGE TO BE IMPLEMENTED TO: <input checked="" type="checkbox"/> NEXT PRODUCTION RUN <input type="checkbox"/> ALL UNITS IN PRODUCTION <input type="checkbox"/> ALL UNITS IN STOCK <input type="checkbox"/> ALL UNITS BEING SERVICED <input type="checkbox"/> OTHER <u> </u>			REMARKS: <u>TO BE IMPLIMENTED ON NEXT PURCHASE OF THE RAW BOARD 145-0062 ON 7/13/91. THIS IS A PCO TO THE TRACES, NO HOLES WILL BE MOVED.</u>				
BEGINNING SERIAL NUMBER AFFECTED: <u> </u>							
DESCRIPTION OF CHANGE: <input type="checkbox"/> SEE PCO SUPPLEMENTS <input type="checkbox"/> CONTINUED ON PCO SUPPLEMENT PAGE <u> </u> <u>R813 IS CONNECTED IN A SERIES WITH R812 AND GOES TO GROUND.</u> 1) <u>REWORK TRACES TO CONNECT R813 IN PARALLEL WITH R812 AND BOTH CONNECTING TO GROUND.</u> 2) <u>R813 THEN BECOMES SITE FOR INSTALLING C813.</u> 3) <u>MAKE COMPONENT CHANGES AS INDICATED BELOW.</u>							
REASON FOR CHANGE: <u>TO SAVE PARTS ADDED BY HAND ON PCO-30ML AND PCO-9MB. ALSO TO REMOVE .1" JUMPERS THAT ARE NOT NEEDED. THIS PCO REPLACES PCO-30ML/9MB ON FUTURE PRODUCTION RUNS.</u>							
PARTS ADDED				PARTS DELETED			
PART#	DESCRIPTION	QTY.	REF. DES.	PART#	DESCRIPTION	QTY.	REF. DES.
<u>051-4703</u>	<u>47K 5%</u>	<u>2</u>	<u>R809, 816</u>	<u>052-4703</u>	<u>47K 1%</u>	<u>2</u>	<u>R810, 816</u>
<u>051-2204</u>	<u>220K 5%</u>	<u>1</u>	<u>R810</u>	<u>052-1213</u>	<u>12K 1%</u>	<u>2</u>	<u>R809, 812</u>
<u>051-1203</u>	<u>12K 5%</u>	<u>1</u>	<u>R812</u>	<u>052-4701</u>	<u>470K 5%</u>	<u>1</u>	<u>R813</u>
<u>030-2224</u>	<u>224</u>	<u>1</u>	<u>C813</u>	<u>093-0030</u>	<u>HEADER 3X.1M</u>	<u>4</u>	<u>P602A, 612A</u>
							<u>655A, 683A</u>
				<u>093-0066</u>	<u>.1 SHUNT</u>	<u>4</u>	<u>-</u>
<input type="checkbox"/> CONTINUED ON PAGE <u> </u>				<input type="checkbox"/> CONTINUED ON PAGE <u> </u>			
AFFECTED AREAS		DONE BY	DATE	AFFECTED AREAS (CONT)		DONE BY	DATE
<input checked="" type="checkbox"/> CIRCUIT SCHEMATIC		<u>MIKE J</u>		<input type="checkbox"/>			
<input checked="" type="checkbox"/> BILL OF MATERIAL		<u>BILL A</u>		<input type="checkbox"/>			
<input checked="" type="checkbox"/> AUTO INSERTER		<u>RAWDY</u>		<input type="checkbox"/>			
<input checked="" type="checkbox"/> SAMPLE CHANGE		<u>RAWDY</u>		DOCUMENT DIST. LIST		# COPIES	
<input type="checkbox"/> TEST PROCEDURE				<input type="checkbox"/> GK USA			
<input type="checkbox"/> COMP. CONTROL FORM				<input type="checkbox"/> SERVICE CENTERS			
<input type="checkbox"/> FAB DRAWING				<input type="checkbox"/> GK EUROPE			
<input type="checkbox"/> PUNCH PROGRAM				<input type="checkbox"/> GK CAMPBELL			
<input type="checkbox"/> PUNCH SAMPLE				<input type="checkbox"/> ENGINEERING			
<input type="checkbox"/> ASSEMBLY PROCEDURES				<input type="checkbox"/> FABRICATION			
<input checked="" type="checkbox"/> ARTWORK		<u>BOB/ADL</u>	<u>6/25</u>	<input type="checkbox"/> PRODUCTION			
<input checked="" type="checkbox"/> SILKSCREEN TEMPLATE		<u>BOB/ADL</u>	<u>6/25</u>	<input type="checkbox"/> OUTSIDE SUPPLIERS			
<input type="checkbox"/>				<input type="checkbox"/>			
DRAWING(S) SHOWING MODIFICATION ATTACHED: <input type="checkbox"/> NO <input type="checkbox"/> YES-SPECIFY: <u> </u>							
WRITTEN BY: <u> </u>				DEPT: <u> </u>		DATE: <u> </u>	
REVIEWED/APPROVED BY: <u> </u>				DEPT: <u> </u>		DATE: <u> </u>	

ML120S INDENTED BILL OF MATERIALS

NOTE: Level 1 refers to main assembly parts.
 Level 2 refers to board level components.
 Main assembly numbers are in bold face, while
 commonly used parts are italicized.

Addtl. Note This B.O.M. will work for all ML/S options.
See ML/E BOM for power supply parts.

LVL	PART#	DESCRIPTION	QTY	REF. DESIG.
1	010-0012-0	<i>MPSA06 NPN 80V 500MA TO-92</i>	2	
1	011-4181-0	<i>BUK456 N-MOSFET 800V 3A TO-220</i>	2	
1	012-0084-0	<i>TIP 33CFP NPN 100V 10A TO218</i>	2	
1	012-1085-0	<i>TIP 34CFP,PNP,100V,10A,TO-218,PECOR</i>	2	
1	014-0031-0	LM7815 +15V REG 1A TO-220	1	
1	014-1032-0	LM7915 -15V REG 1A TO-220	1	
1	021-1124-0	BYW29-200,RECT-FAST,8A,200V,25NS,TO-220	2	
1	022-2079-0	SNRA130K20 MOV,130V	1	
1	032-3104-0	CAP,METALIZED POLYESTER,104,5%,63V	1	
1	082-0047-0	<i>SPEAKER,6.5",80W,Z=16 PYLE-LEAD</i>	2	
1	091-0018-0	<i>FUSE, 2.5A,250V,5MM X 20MM,SLB</i>	1	
1	093-0035-0	HOUSING,4X.156,FEMALE 22GA,LOCK	1	
1	093-0066-0	SHUNT .1,TIN	2	
1	093-0067-0	SHUNT .2,TIN	3	
1	094-0018-0	SOLDER LUG,#4	1	
1	094-0041-0	<i>RECEPTICAL AC,LINE FILT 02BEEG3H,2A,FUSE</i>	1	
1	095-0005-0	<i>POWER CORD,117V PLUG,DETACH</i>	1	
1	100-0012-0	GROMIT,3/16 X.100	1	
1	100-0014-0	INSULATOR/SHIELD,2XTO-220	1	
1	100-0020-0	BUMPER,ROUND RUBBER,1/2"X.14"	2	
1	100-0027-0	BUTTON,ROUND BLACK CAP - PUSH SWITCH	1	
1	100-0037-0	HEAT CLIP,TO-98	2	
1	100-0038-0	BUMPER,ROUND RUBBER,5/8X5/16	2	
1	100-0061-0	CLAMP,TO-220,"VDE"	2	
1	100-0069-0	CLAMP-TO220	4	
1	100-0076-0	FOOT,RUBBER,ROUND,5/8DIA. X 5/8"	2	
1	100-0081-0	CORNER,CHEVRON,PLASTIC,WOOD CABS	1	
1	100-0096-0	<i>KNOB,BLUE,6X15MM SPLINE SHAFT</i>	4	

LVL	PART#	DESCRIPTION	QTY	REF. DESIG.
1	100-0099-0	KNOB,RED,6X15MM SPLINE SHAFT	4	
1	111-0030-0	SEE 111-8030-0	8	
1	111-0061-0	BOLT 4-40 3/8 PHP CAD	2	
1	111-0084-0	BOLT 4-40 1/2 PHP-WASHER CAD	5	
1	111-3061-0	SEE 111-8061-0	3	
1	111-6001-0	NUT 4-40 KEP SMALL	2	
1	111-7021-0	WASHER #4 FLAT CAD	4	
1	112-0084-0	SEE 112-0104-0	6	
1	112-1080-0	BOLT 6-32 1/2 FHP 82^ B.O.	2	
1	112-3040-0	SCREW 6AB 1/4 PHP B.O.	17	
1	112-3121-0	SCREW 6AB 3/4 PHP CAD	6	
1	112-4060-0	SCREW 6AB 3/8 FHP 82' B.O.	24	
1	112-4081-0	SCREW 6AB 1/2 FHP 82^ CAD	6	
1	112-7001-0	WASHER #6 FLAT CAD	2	
1	113-1121-0	SEE 113-1141-0	2	
1	113-8060-0	RT-BOLT 8-32 3/8 PHP B.O.	8	
1	114-0080-0	BOLT 10-32 1/2 PHP B.O.	2	
1	130-0004-0	OVERLAY,206 GRILL	1	
1	130-0008-D	INSULATOR,THERMO-STRIP,MICRO POWERAMP	1	
1	130-0012-0	MICRO LEAD S FRONT PANEL OVERLAY	1	
1	130-0018-0	MICRO LEAD 120S REAR PANEL OVERLAY	1	
1	130-0492-A	MICRO SERIES HEAT SINK 120W	1	
1	132-0495-A	MICRO LEAD 206 BAFFLE	1	
2	120-0011-0	STEEL,18 GAUGE JET COAT,.,048	320	
1	132-0496-A	MICRO LEAD 206 BACK	1	
2	120-0011-0	STEEL,18 GAUGE JET COAT,.,048	320	
1	132-0497-A	MICRO LEAD 206 GRILL	1	
2	120-0011-0	STEEL,18 GAUGE JET COAT,.,048	192	
1	132-0498-A	MICRO LEAD 206 RIGHT SIDE	1	
2	114-6076-0	NUT 10-32 PRESS FOR ALUM.	1	
2	120-0005-0	ALUM .100	104	
1	132-0499-A	MICRO LEAD 206 LEFT SIDE	1	
2	114-6076-0	NUT 10-32 PRESS FOR ALUM.	1	

LVL	PART#	DESCRIPTION	QTY	REF. DESIG.
2	120-0005-0	ALUM .100	104	
1	132-0521-0	MICRO LEAD S FRONT PANEL	1	
2	120-0011-0	STEEL,18 GAUGE JET COAT,,048	48	
1	132-0522-0	MS-S REAR PANEL	1	
2	120-0011-0	STEEL,18 GAUGE JET COAT,,048	48	
1	132-0525-E	MICRO SERIES SUPPLY SHEILD	1	
2	120-0016-0	STEEL,24 GA,JET COAT,,024	66	
1	132-0537-0	MICRO COMBO HANDLE PLATE	1	
2	120-0012-0	STEEL,20 GAUGE JET COAT,,036	23	
1	132-0540-A	MICRO SERIES INPUT SHIELD	1	
2	120-0016-0	STEEL,24 GA,JET COAT,,024	4	
1	132-0543-A	206 BRACE	1	
2	120-0011-0	STEEL,18 GAUGE JET COAT,,048	87	
1	150-0019-0	BAG,POLY 18X24XC [2 MIL.]	1	
1	160-0000-0	MANUAL,MICRO SERIES	1	
1	206-0071-E	MICRO SERIES POWER SUPPLY	1	See ML/E BOM for parts list
1	206-0073-D	MICRO LEAD-S PREAMP	1	
2	001-1030-0	LF353N DUAL JFET OP AMP	4	U1,U4,U5,U6
2	001-1038-0	LM386 LOW VOLTAGE POWER AMP	2	U7,U8
2	001-3028-0	TL604 DUAL COMP ANALOG SWITCH	2	U2,U3
2	010-0012-0	MPSA06 NPN 80V 500MA TO-92	1	Q35
2	010-1013-0	MPSA56 PNP 80V 500MA TO-92	1	Q26
2	010-2010-0	J113 N-JFET 35V 2MA TO-92	8	Q9,Q19,Q36,Q48,Q59,Q69,Q73,Q87
2	020-0024-0	1N4370 ZENER,2.4V,5%,400MW,DO-7	1	D96
2	020-0120-0	1N759A,ZENER,12V,5%,400MW,DO-35	2	D7,D8
2	020-1103-0	1N914 ,RECT-FAST,200MA,100V,4NS,DO-35	1	D25
2	025-0101-0	LED-GREEN,6MCD,80 DEG,T-1	2	D38,D67
2	030-0223-0	CAP,CERAMIC AXIAL,223,30%,16V	2	C64,C112
2	030-1103-0	CAP,CERAMIC AXIAL,103,30%,25V	2	C66,C122
2	030-2101-0	CAP,CERAMIC AXIAL,101,5%,50V	1	C12
2	030-2102-0	CAP,CERAMIC AXIAL,102,10%,50V	2	C30,C102
2	030-2104-0	CAP,CERAMIC AXIAL,104,10%,50V,XR7,.3"	8	C18,C32,C47,C90,C152,C153,C160
2	030-2222-0	CAP,CERAMIC AXIAL,222,10%,50V	2	C42,C60

LVL	PART#	DESCRIPTION	QTY	REF. DESIG.
2	030-2224-0	CAP,CERAMIC AXIAL,224,20%,50V,XR7	2	C78,C82
2	030-2271-0	CAP,CERAMIC AXIAL,271,10%,50V	1	C118
2	030-2472-0	CAP,CERAMIC AXIAL,472,10%,50V	5	C55,C84,C108,C116,C117
2	030-2473-0	CAP,CERAMIC AXIAL XR7,473,10%,50V	2	C154,C162
2	030-2474-0	CAP,CERAMIC AXIAL Z5U,474,20%,50V	1	C33
2	031-1227-0	CAP,ELECTROLYTIC RADIAL,227,-10%+50%,25V 5	5	C1,C2,C126,C129,C130
2	031-2335-0	CAP,ELECTROLYTIC RADIAL,335,20%,50V	1	C26A
2	032-3104-0	CAP,METALIZED POLYESTER,104,5%,63V	2	C10,C71
2	032-3105-0	CAP,METALIZED POLYESTER,105,5%,63V	2	C16,C53
2	032-3473-0	CAP,METALIZED POLYESTER,473,5%,63V	1	C44A
2	038-0336-0	CAP,ELECTIOLYTIC AXIAL,336,20%,16V	14	C62,C74,C81,C97,C100,C123,C137,C138, C143,C145,C156,C157,C165,C166
2	038-2335-0	CAP,ELECTROLITIC AXIAL TR 335,20% 25V	2	C22,C146
2	051-0101-0	RES,CARBON FILM,10 OHM,1/4W,5%	4	R155,R158,R163,R164
2	051-0221-0	RES,CARBON FILM,22 OHM,1/4W,5%	1	R94
2	051-1001-0	RES,CARBON FILM,100 OHM,1/4W,5%	1	
2	051-1002-0	RES,CARBON FILM,1K OHM,1/4W,5%	13	R6,R40,R50,R75,R92,R103,R105,R121, R131,R132,R139,R140,R147
2	051-1004-0	RES,CARBON FILM,100K OHM,1/4W,5%	6	R15,R45,R76,R91,R133,R144
2	051-1005-0	RES,CARBON FILM,1M OHM,1/4W,5%	1	R13
2	051-1203-0	RES,CARBON FILM,12K OHM,1/4W,5%	13	R11,R20,R29,R33A,R44,R49,R66A,R80,R98 R135,R142,R151,R159
2	051-2202-0	RES,CARBON FILM,2.2K OHM,1/4W,5%	6	R54,R57,R69A,R107,R111,R148
2	051-2203-0	RES,CARBON FILM,22K OHM,1/4W,5%	9	R31,R32A,R34,R52,R56,R58,R72,R134,141
2	051-2204-0	RES,CARBON FILM,220K OHM,1/4W,5%	7	R21,R23,R39,R43,R93,R106,R109
2	051-3302-0	RES,CARBON FILM,3.3K OHM,1/4W,5%	2	R24,R83
2	051-3303-0	RES,CARBON FILM,33K OHM,1/4W,5%	3	R51,R149,R150
2	051-3904-0	RES,CARBON FILM,390K OHM,1/4W,5%	2	R99,R101
2	051-4701-0	RES,CARBON FILM,470 OHM,1/4W,5%	4	R3,R4,R85,R128
2	051-4702-0	RES,CARBON FILM,4.7K OHM,1/4W,5%	2	R41,R89
2	051-4703-0	RES,CARBON FILM,47K OHM,1/4W,5%	1	R110
2	051-4704-0	RES,CARBON FILM,470K OHM,1/4W,5%	2	R65,R68
2	051-5602-0	RES,CARBON FILM,5.6K OHM,1/4W,5%	5	R114,R119,R120,R124,R127
2	051-5603-0	RES,CARBON FILM,56K OHM,1/4W,5%	1	R88

LVL	PART#	DESCRIPTION	QTY	REF. DESIG.
2	052-0000-0	RES,METAL WIRE, 0 OHM,1/4W,1%	1	R113
2	070-0501-0	POT,2X50KB,9MM,PLAST KNURL 14MM,.05W	2	R28,R136-gain, master
2	070-0505-0	POT,50K LIN,MINI POT	1	R17- boost
2	070-0506-0	POT,50KA,9MM,PLASTIC KNURL 14MM,.05W	2	R46,R77- A and B volume pots
2	070-0508-0	POT,1K TRIM,6MM,SLOT,.3W	3	R5,R63,R86
2	070-0510-0	POT,50K TRIM,6MM,SLOT,.3W	1	R70
2	070-0511-0	POT,10K LINEAR,MINI POT	1	R61- shape
2	070-0514-0	POT,50KB,LINEAR,9MM,METAL KNURL 9MM,.1	4	R95,R104,R115,R125-all EQ pots
2	090-0012-0	SWITCH,MINI PP,DPDT,.1A BRK/MAKE,PC TER	2	S1,S2-all switches
2	092-0075-0	JACK S2-BBB,1/4",S-TIP,S-RING,PC TERM	5	J1,J3,J4,J5,J6- all other jacks
2	092-0076-0	JACK S2-BNB,1/4",S-TIP,PC TERM	1	J2- send jack
2	093-0028-0	HEADER,3X.156,MALE,LOCK	2	P1,P2
2	100-0060-0	HOLDER,LED RIGHT ANGLE MOUNT	2	D38,D67
2	145-0073-0	MICRO LEAD-S PREAMP BOARD	1	
1	206-0074-D	MICRO LEAD HEAD, 120W MONO POWER AMP	1	
2	001-1030-0	LF353N DUAL JFET OP AMP	2	
2	001-1185-0	LM324N,QUAD OP-AMP,BIPOLAR,LOW POWER	2	
2	010-0012-0	MPSA06 NPN 80V 500MA TO-92	4	
2	010-1013-0	MPSA56 PNP 80V 500MA TO-92	3	
2	011-0023-0	TIP29C NPN 100V 1A TO-220 FP	1	
2	011-1035-0	TIP30C PNP 100V 1A TO-220	2	
2	020-0050-0	1N751,ZENER,5V,10%,400MW,DO-35	2	
2	020-1103-0	1N914 ,RECT-FAST,200MA,100V,4NS,DO-35	3	
2	020-2105-0	1N4002,RECT,1A,150V,DO-41	5	
2	030-1103-0	CAP,CERAMIC AXIAL,103,30%,25V	2	
2	030-2101-0	CAP,CERAMIC AXIAL,101,5%,50V	2	
2	030-2104-0	CAP,CERAMIC AXIAL,104,10%,50V,XR7,.3"	3	
2	030-2105-0	CAP,CERAMIC AXIEL,105,20%,50V	2	
2	030-2271-0	CAP,CERAMIC AXIAL,271,10%,50V	1	
2	030-2470-0	CAP,CERAMIC AXIAL,47,5%,50V	1	
2	030-2474-0	CAP,CERAMIC AXIAL Z5U,474,20%,50V	1	
2	031-1227-0	CAP,ELECTROLYTIC RADIAL,227,-10%+50%,25V 2		
2	038-0106-0	CAP,ELECTROLITIC AXIAL TR,106,20%,16V	2	

LVL	PART#	DESCRIPTION	QTY	REF. DESIG.
2	038-0336-0	CAP,ELECTIOLYTIC AXIAL,336,20%,16V	3	
2	038-2108-0	CAP,ELECTROLYTIC AXIAL,108,-10%,50V	4	
2	038-2335-0	CAP,ELECTROLITIC AXIAL TR 335,20% 25V	2	
2	051-0221-0	RES,CARBON FILM,22 OHM,1/4W,5%	1	
2	051-1001-0	RES,CARBON FILM,100 OHM,1/4W,5%	3	
2	051-1002-0	RES,CARBON FILM,1K OHM,1/4W,5%	5	
2	051-1004-0	RES,CARBON FILM,100K OHM,1/4W,5%	1	
2	051-1005-0	RES,CARBON FILM,1M OHM,1/4W,5%	3	
2	051-1203-0	RES,CARBON FILM,12K OHM,1/4W,5%	6	
2	051-2202-0	RES,CARBON FILM,2.2K OHM,1/4W,5%	2	
2	051-2203-0	RES,CARBON FILM,22K OHM,1/4W,5%	6	
2	051-2204-0	RES,CARBON FILM,220K OHM,1/4W,5%	1	
2	051-2205-0	RES,CARBON FILM,2.2M OHM,1/4W,5%	1	
2	051-3302-0	RES,CARBON FILM,3.3K OHM,1/4W,5%	5	
2	051-3303-0	RES,CARBON FILM,33K OHM,1/4W,5%	2	
2	051-4302-0	RES,CARBON FILM,4.3K OHM,1/4W,5%	1	
2	051-4701-0	RES,CARBON FILM,470 OHM,1/4W,5%	7	
2	051-4702-0	RES,CARBON FILM,4.7K OHM,1/4W,5%	2	
2	051-4703-0	RES,CARBON FILM,47K OHM,1/4W,5%	5	
2	051-4704-0	RES,CARBON FILM,470K OHM,1/4W,5%	2	
2	051-5602-0	RES,CARBON FILM,5.6K OHM,1/4W,5%	2	
2	051-5603-0	RES,CARBON FILM,56K OHM,1/4W,5%	1	
2	051-6802-0	RES,CARBON FILM,6.8K OHM,1/4W,5%	3	
2	052-0000-0	RES,METAL WIRE, 0 OHM,1/4W,1%	7	
2	052-1213-0	RES,METAL FILM,12.1K OHM,1/4W,1%	3	
2	052-4703-0	RES,METAL FILM,47K OHM,1/4W,1%	4	
2	054-2702-0	RES,CARBON FILM,2.7K OHM,1W,5%	2	
2	056-.330-0	RES,CERAMIC WW,.33 OHM,5W,10%	5	
2	056-0500-0	RES,CERAMIC WW,5 OHM,5W,10%	1	
2	070-0508-0	POT,1K TRIM,6MM,SLOT,.3W	1	
2	070-0510-0	POT,50K TRIM,6MM,SLOT,.3W	1	
2	092-0075-0	JACK S2-BBB,1/4",S-TIP,S-RING,PC TERM	1	
2	092-0076-0	JACK S2-BNB,1/4",S-TIP,PC TERM	2	

LVL	PART#	DESCRIPTION	QTY	REF. DESIG.
2	093-0030-0	HEADER,3X.1,MALE	1	
2	093-0087-0	HEADER,6X.156,MALE RIGHT ANGLE LOCK	1	
2	145-0064-0	MICRO SEIES, STEREO POWER AMP BOARD	1	
1	602-0007-0	FORMS,WARRANTY CARDS	1	

ML260E INDENTED BILL OF MATERIALS

NOTE: Level 1 refers to main assembly parts
Level 2 refers to board level parts.
Main assembly numbers are in bold face, while
commonly needed parts are italicized

NOTE: This B.O.M. will work for all ML/E options.

LVL.	PART#	DESCRIPTION	QTY	REF. DESIG.
1	010-0012-0	MPSA06 NPN 80V 500MA TO-92	4	
1	011-4181-0	BUK456 N-MOSFET 800V 3A TO-220	2	
1	012-0085-0	TIP-35CFP NPN 100V 25A TO218	2	
1	012-1086-0	TIP 36CFP,PNP,100V,25A,TO-218,PECOR	2	
1	014-0031-0	LM7815 +15V REG 1A TO-220	1	
1	014-1032-0	LM7915 -15V REG 1A TO-220	1	
1	021-1124-0	BYW29-200,RECT-FAST,8A,200V,25NS,TO-220	2	
1	022-2079-0	SNRA130K20 MOV,130V	1	
1	032-3104-0	CAP,METALIZED POLYESTER,104,5%,63V	1	
1	082-0047-0	SPEAKER,6.5",80W,Z=16 PYLE-LEAD	2	
1	091-0012-0	FUSE,3.15 250V 5X20MM SLB	2	
1	092-0064-0	Q-CON, .25 TAB,18-22GA,INSULATED	4	
1	093-0032-0	HOUSING,3X.156,FEMALE 22GA,LOCK	2	
1	093-0035-0	HOUSING,4X.156,FEMALE 22GA,LOCK	1	
1	093-0066-0	SHUNT .1,TIN	1	
1	093-0067-0	SHUNT .2,TIN	1	
1	094-0018-0	SOLDER LUG,#4	1	
1	094-0041-0	RECEPTICAL AC,LINE FILT 02BEEG3H,2A,FUSE	1	
1	095-0005-0	POWER CORD,117V PLUG,DETACH	1	
1	100-0012-0	GROMIT,3/16 X.100	2	
1	100-0014-0	INSULATOR/SHIELD,2XTO-220	1	
1	100-0020-0	BUMPER,ROUND RUBBER,1/2"X.14"	2	
1	100-0027-0	BUTTON,ROUND BLACK CAP - PUSH SWITCH	1	
1	100-0037-0	HEAT CLIP,TO-98	4	
1	100-0038-0	BUMPER,ROUND RUBBER,5/8X5/16	1	
1	100-0061-0	CLAMP,TO-220,"VDE"	2	
1	100-0069-0	CLAMP-TO220	4	
1	100-0076-0	FOOT,RUBBER,ROUND,5/8DIA. X 5/8"	2	

LVL	PART#	DESCRIPTION	QTY	REF. DESIG.
1	100-0080-0	HANDLE RUBBER,10"	1	
1	100-0096-0	KNOB,BLUE,6X15MM SPLINE SHAFT	4	
1	100-0098-0	KNOB,GRAY,6X15MM SPLINE SHAFT	1	
1	100-0099-0	KNOB,RED,6X15MM SPLINE SHAFT	4	
1	110-3040-0	SCREW 2AB 1/4 PHP B.O.	2	
1	111-0061-0	BOLT 4-40 3/8 PHP CAD	2	
1	111-0084-0	BOLT 4-40 1/2 PHP-WASHER CAD	5	
1	111-3044-0	SCREW 4B 1/4 PHP-WASHER CAD	5	
1	111-6001-0	NUT 4-40 KEP SMALL	2	
1	111-7021-0	WASHER #4 FLAT CAD	4	
1	111-8030-0	TR-BOLT 4-40 3/16 PHP B.O.	2	
1	111-8061-0	TR-BOLT 4-40 3/8 PHP CAD	3	
1	112-0104-0	BOLT 6-32 5/8 PHP CAD WITH EXT SIM WAS	6	
1	112-3040-0	SCREW 6AB 1/4 PHP B.O.	2	
1	112-3081-0	SCREW 6AB 1/2 PHP CAD	6	
1	112-4081-0	SCREW 6AB 1/2 FHP 82^ CAD	3	
1	112-7001-0	WASHER #6 FLAT CAD	2	
1	112-8040-0	TR-BOLT 6-32 1\4 PHP B.O.	18	
1	112-9060-0	TR-BOLT 6-32 3/8 FHP B.O.	23	
1	113-1141-0	BOLT 8-32 7/8 FHP CAD	2	
1	113-8060-0	RT-BOLT 8-32 3/8 PHP B.O.	8	
1	114-0080-0	BOLT 10-32 1/2 PHP B.O.	2	
1	114-1016-0	BOLT 10-32 1 OHP 82^ B.O.	2	
1	115-7005-0	WASHER 3/8 FIBRE FLAT	8	
1	115-7021-0	WASHER 3/8 INTERNAL CAD	3	
1	130-0002-0	MICRO LEAD E FRONT PANEL OVERLAY	1	
1	130-0003-0	MICRO LEAD E 2X60 REAR PNL OVERLAY	1	
1	130-0004-0	OVERLAY,206 GRILL	1	
1	130-0008-D	INSULATOR,THERMO-STRIP,MICRO POWERAMP	1	
1	130-0492-A	MICRO SERIES HEAT SINK 120W	1	
1	132-0493-A	MICRO LEAD E FRONT PANEL	1	
2	120-0011-0	STEEL,18 GAUGE JET COAT, .048	48	
1	132-0494-A	MS-E REAR PANEL	1	

LVL	PART#	DESCRIPTION	QTY	REF. DESIG.
2	120-0011-0	STEEL,18 GAUGE JET COAT,.048	48	
1	132-0495-A	MICRO LEAD 206 BAFFLE	1	
2	120-0011-0	STEEL,18 GAUGE JET COAT,.048	320	
1	132-0496-A	MICRO LEAD 206 BACK	1	
2	120-0011-0	STEEL,18 GAUGE JET COAT,.048	320	
1	132-0497-A	MICRO LEAD 206 GRILL	1	
2	120-0011-0	STEEL,18 GAUGE JET COAT,.048	192	
1	132-0498-A	MICRO LEAD 206 RIGHT SIDE	1	
2	114-6076-0	NUT 10-32 PRESS FOR ALUM.	1	
2	120-0005-0	ALUM .100	104	
1	132-0499-A	MICRO LEAD 206 LEFT SIDE	1	
2	114-6076-0	NUT 10-32 PRESS FOR ALUM.	1	
2	120-0005-0	ALUM .100	104	
1	132-0525-E	MICRO SERIES SUPPLY SHEILD	1	
2	120-0016-0	STEEL,24 GA,JET COAT,.024	66	
1	132-0537-D	MICRO COMBO HANDLE PLATE,"REV D"	1	
2	120-0012-0	STEEL,20 GAUGE JET COAT,.036	27	
1	132-0540-A	MICRO SERIES INPUT SHEILD	1	
2	120-0016-0	STEEL,24 GA,JET COAT,.024	4	
1	132-0543-A	206 BRACE	1	
2	120-0011-0	STEEL,18 GAUGE JET COAT,.048	87	
1	150-0019-0	BAG,POLY 18X24XC [2 MIL.]	1	
1	160-0000-0	MANUAL,MICRO SERIES	1	
1	206-0063-E	MICRO LEAD-E PREAMP	1	
2	001-0001-0	MN3011 MULTI-TAP BBD	1	U21
2	001-0006-0	MN3007 1024 STAGE BBD	2	U22,24
2	001-1030-0	LF353N DUAL JFET OP AMP	12	U1,U7,U8,U10,U13,U15,U17,U18,U19 U20,U27,U28
2	001-1038-0	LM386 LOW VOLTAGE POWER AMP	2	U11,12
2	001-1042-0	RC5532NB BI-POLAR OP-AMP	1	U4
2	001-2044-0	MN3101 CLOCK GENERATOR/DRIVER	2	U23,25
2	001-2060-0	LM555CN TIMER	1	U26
2	001-3028-0	TL604 DUAL COMP ANALOG SWITCH	5	U2,3,9,16

LVL	PART#	DESCRIPTION	QTY	REF. DESIG.
2	001-4043-0	NE571 DUAL COMPANDOR	2	U5,U14
2	010-0012-0	MPSA06 NPN 80V 500MA TO-92	1	Q36
2	010-1013-0	MPSA56 PNP 80V 500MA TO-92	1	Q30
2	010-2010-0	J113 N-JFET 35V 2MA TO-92	8	Q9,Q20,Q40,Q50,Q67,Q78,Q82,Q121
2	020-0024-0	1N4370 ZENER,2.4V,5%,400MW,DO-7	5	D92,D105,D107,D269,D271
2	020-0036-0	1N747A,ZENER,3.6V,5%,400MW,DO-35	2	D383,D385
2	020-0120-0	1N759A,ZENER,12V,5%,400MW,DO-35	2	D7,D8
2	020-1103-0	1N914 ,RECT-FAST,200MA,100V,4NS,DO-35	7	D28,D206,D208,D210,D212,D349,D368
2	025-0101-0	LED-GREEN,6MCD,80 DEG,T-1	3	D44,D88,D167
2	030-0223-0	CAP,CERAMIC AXIAL,223,30%,16V	2	C71,C148
2	030-1103-0	CAP,CERAMIC AXIAL,103,30%,25V	6	C62,C132,C161,C228,C231,C367
2	030-2101-0	CAP,CERAMIC AXIAL,101,5%,50V	5	C12,C112,C124,C239,C241
2	030-2102-0	CAP,CERAMIC AXIAL,102,10%,50V	8	C34,C142,C283,C284,C297,C298,C353,C370
2	030-2104-0	CAP,CERAMIC AXIAL,104,10%,50V,XR7,.3"	12	C16,C32,C41,C128,C183,C184,C195,C196,C291,C296,C305,C310
2	030-2222-0	CAP,CERAMIC AXIAL,222,10%,50V	11	C42,C49,C254,C258,C266,C270,C276,C282,C295,C309,C386
2	030-2224-0	CAP,CERAMIC AXIAL,224,20%,50V,XR7	4	C75,C79,C177,C378
2	030-2271-0	CAP,CERAMIC AXIAL,271,10%,50V	9	C165,C256,C261,C267,C279,C292,C306,C373A,C381
2	030-2472-0	CAP,CERAMIC AXIAL,472,10%,50V	8	C45,C81,C140,C149,C162,C333,C340,C357
2	030-2473-0	CAP,CERAMIC AXIAL XR7,473,10%,50V	3	C186,C197,C209
2	030-2474-0	CAP,CERAMIC AXIAL Z5U,474,20%,50V	6	C23,C376,C389,C391,C398,C400
2	031-1227-0	CAP,ELECTROLYTIC RADIAL,227,-10%+50%,25V	8	C1,C2,C57,C65,C175,C350,C351,C369
2	032-3104-0	CAP,METALIZED POLYESTER,104,5%,63V	2	C10,C69
2	032-3105-0	CAP,METALIZED POLYESTER,105,5%,63V	2	C15,C59
2	032-3473-0	CAP,METALIZED POLYESTER,473,5%,63V	1	C46A
2	038-0106-0	CAP,ELECTROLITIC AXIAL TR,106,20%,16V	2	C97,C317
2	038-0336-0	CAP,ELECTIOLYTIC AXIAL,336,20%,16V	20	C60,C83,C86,C101,C125,C136,C137,C174,C185,C188,C191,C192,C199,C200,C201,C203,C237,C238,C403,C406
2	038-2335-0	CAP,ELECTROLITIC AXIAL TR 335,20% 25V	35	C25,C89A,C91,C95,C103,C106,C114,C115,C117,C120,C126,C166,C168,C204,C205,C218,C224,C225,C227,C229,C251,C252,C262,C274,C281,C312,C314,C320,C334,C343,C361,C362,C399,C404,C405
2	051-0101-0	RES,CARBON FILM,10 OHM,1/4W,5%	4	R187,R193,R198,R202

LVL	PART#	DESCRIPTION	QTY	REF. DESIG.
2	051-0221-0	RES,CARBON FILM,22 OHM,1/4W,5%	3	R90,R352,R373
2	051-1001-0	RES,CARBON FILM,100 OHM,1/4W,5%	1	R22
2	051-1002-0	RES,CARBON FILM,1K OHM,1/4W,5%	15	R6,R47,R52,R84,R89,R109,R139,R144,R169, R217,R230,R316,R377,R401,R402
2	051-1004-0	RES,CARBON FILM,100K OHM,1/4W,5%	26	R17,R39,R73,R94,R96,R99,R138,R253,R263 R264,R277,R293,R307,R328,R329,R336, R338,R344,R345,R346,R358,R359,R364, R366,R382,R387
2	051-1005-0	RES,CARBON FILM,1M OHM,1/4W,5%	2	R13,R214
2	051-1203-0	RES,CARBON FILM,12K OHM,1/4W,5%	29	R11,R21,R31,R36A,R46,R51,R64,R85,R127, R180,R181,R182,R194,R216,R234,R235, R286,R299,R313,R318,R372,R388,R390, R392,R393,R394,R395,R396,R397
2	051-1204-0	RES,CARBON FILM,120K OHM,1/4W,5%	7	R236,R249,R268,R321,R332,R335,R337
2	051-1504-0	RES,CARBON FILM,150K OHM,1/4W,5%	3	R272,R324,R325
2	051-2201-0	RES,CARBON FILM,220 OHM,1/4W,5%	1	R108
2	051-2202-0	RES,CARBON FILM,2.2K OHM,1/4W,5%	10	R58,R63,R77,R147,R151,R219,R311,R315, R319,R380
2	051-2203-0	RES,CARBON FILM,22K OHM,1/4W,5%	27	R24,R30A,R33,R43,R48,R53,R70,R98,R102, R104,R116,R119,R123,R221,R222,R232, R233,R250,R273,R287,R288,R301,R302, R354,R355,R374,R375
2	051-2204-0	RES,CARBON FILM,220K OHM,1/4W,5%	9	R19,R26,R29,R37,R146,R154,R158,R171,176
2	051-2206-0	RES,CARBON FILM,22M OHM,1/4W,5%	2	R113,R226
2	051-2701-0	RES,CARBON FILM,270 OHM,1/4W,5%	2	R290,R304
2	051-3302-0	RES,CARBON FILM,3.3K OHM,1/4W,5%	3	R27,R80,R371
2	051-3303-0	RES,CARBON FILM,33K OHM,1/4W,5%	14	R56,R170,R179,R190,R242,R243,R246,R248, R255,R260,R280,R294,R308,R384
2	051-3304-0	RES,CARBON FILM,330K OHM,1/4W,5%	1	R265
2	051-3904-0	RES,CARBON FILM,390K OHM,1/4W,5%	4	R145,R152,R245,R247
2	051-4302-0	RES,CARBON FILM,4.3K OHM,1/4W,5%	1	R213
2	051-4701-0	RES,CARBON FILM,470 OHM,1/4W,5%	6	R3,R4,R129,R130,R135,R379
2	051-4702-0	RES,CARBON FILM,4.7K OHM,1/4W,5%	5	R35,R100,R133,R289,R303
2	051-4703-0	RES,CARBON FILM,47K OHM,1/4W,5%	11	R111,R141,R215,R220,R223,R240,R244, R257,R259,R275,R278
2	051-4704-0	RES,CARBON FILM,470K OHM,1/4W,5%	3	R72,R76,R207
2	051-5602-0	RES,CARBON FILM,5.6K OHM,1/4W,5%	13	R153,R156,R157,R159,R163,R164,R173, R339,R347,R348,R360,R363,R365
2	051-5603-0	RES,CARBON FILM,56K OHM,1/4W,5%	10	R122,R211,R285,R300,R322,R323,R326, R327,R330,R331

LVL	PART#	DESCRIPTION	QTY	REF. DESIG.
2	052-0000-0	RES,METAL WIRE, 0 OHM,1/4W,1%	1	R150
2	070-0501-0	POT,2X50KB,9MM,PLAST KNURL 14MM,.05W	3	R38,R160,R189
2	070-0505-0	POT,50K LIN,MINI POT	3	R18,R172,R178-boost,rate,depth
2	070-0506-0	POT,50KA,9MM,PLASTIC KNURL 14MM,.05W	2	R61,R93lead,volume
2	070-0508-0	POT,1K TRIM,6MM,SLOT,.3W	3	R5,R66,R87
2	070-0510-0	POT,50K TRIM,6MM,SLOT,.3W	4	R68,R341,R342,R356
2	070-0511-0	POT,10K LINEAR,MINI POT	1	R74-shape
2	070-0514-0	POT,50KB,LINEAR,9MM,METAL KNURL 9MM,.1W	4	R110,R118,R131,R143- EQ pots
2	090-0012-0	SWITCH,MINI PP,DPDT,.1A BRK/MAKE,PC TERM	5	S1,S2,S3,S4,S5-all switches
2	092-0000-0	CON,DINX5,PC TERM	1	J8
2	092-0009-0	XLR,MALE,PC TERM TRIANGLE	2	J3,J4
2	092-0075-0	JACK S2-BBB,1/4",S-TIP,S-RING,PC TERM	3	J1,J2,J5-input, phone
2	092-0076-0	JACK S2-BNB,1/4",S-TIP,PC TERM	2	J6,J7
2	093-0027-0	HEADER,6X.156,MALE RIGHT ANGLE LOCK	1	P1-P2
2	093-0074-0	SOCKET,8 PIN,.3 DIP,DW TIN	1	U4
2	100-0060-0	HOLDER,LED RIGHT ANGLE MOUNT	3	D44,D88,D167
2	145-0063-0	MICRO LEAD-E PREAMP BOARD	1	
1	206-0064-D	MICRO LEAD HEAD, 2X60 STEREO POWER AMP	1	
2	001-1030-0	LF353N DUAL JFET OP AMP	2	U601,602
2	001-1185-0	LM324N,QUAD OP-AMP,BIPOLAR,LOW POWER	2	U604,605
2	010-0012-0	MPSA06 NPN 80V 500MA TO-92	11	Q633,648,668,694,722,724,742,758,782,807,823
2	010-1013-0	MPSA56 PNP 80V 500MA TO-92	6	Q634,647,649,699,712,723
2	011-0023-0	TIP29C NPN 100V 1A TO-220 FP	2	Q621,692
2	011-1035-0	TIP30C PNP 100V 1A TO-220	4	Q617,620,660,693
2	020-0050-0	1N751,ZENER,5V,10%,400MW,DO-35	2	D800,817
2	020-1103-0	1N914 ,RECT-FAST,200MA,100V,4NS,DO-35	5	D750,753,760,766,802
2	020-2105-0	1N4002,RECT,1A,150V,DO-41	10	D613,614,635,639,643,701,713,726,734,735
2	030-1103-0	CAP,CERAMIC AXIAL,103,30%,25V	4	C641,657,700,710
2	030-2101-0	CAP,CERAMIC AXIAL,101,5%,50V	4	C645,656,698,733
2	030-2104-0	CAP,CERAMIC AXIAL,104,10%,50V,XR7,.3"	4	C603,610,653,736
2	030-2105-0	CAP,CERAMIC AXIEL,105,20%,50V	4	C669,688A,706A,729
2	030-2224-0	CAP,CERAMIC AXIAL,224,20%,50V,XR7	1	C813

LVL	PART#	DESCRIPTION	QTY	REF. DESIG.
2	030-2271-0	CAP,CERAMIC AXIAL,271,10%,50V	2	C679,738
2	030-2333-0	CAP,CERAMIC AXIAL,333,5%,50V,X7R	2	C675,708
2	030-2470-0	CAP,CERAMIC AXIAL,47,5%,50V	2	C682,716
2	030-2474-0	CAP,CERAMIC AXIAL Z5U,474,20%,50V	2	C662,686
2	031-1227-0	CAP,ELECTROLYTIC RADIAL,227,-10%+50%,25V	3	C616,659,790
2	038-0106-0	CAP,ELECTROLITIC AXIAL TR,106,20%,16V	2	C741,803
2	038-0336-0	CAP,ELECTIOLYTIC AXIAL,336,20%,16V	4	C676,728,765,772
2	038-2335-0	CAP,ELECTROLITIC AXIAL TR 335,20% 25V	3	C625,626,821
2	051-0221-0	RES,CARBON FILM,22 OHM,1/4W,5%	2	R672,721
2	051-1001-0	RES,CARBON FILM,100 OHM,1/4W,5%	6	R632,642,650,702,718,727
2	051-1002-0	RES,CARBON FILM,1K OHM,1/4W,5%	10	R628,629,638,664,680,691,703,720,764,785
2	051-1004-0	RES,CARBON FILM,100K OHM,1/4W,5%	1	R801
2	051-1005-0	RES,CARBON FILM,1M OHM,1/4W,5%	4	R688,706,741A,822
2	051-1203-0	RES,CARBON FILM,12K OHM,1/4W,5%	14	R627,630,661,690,755,756,762,769,773,774,778,812,814,815
2	051-2202-0	RES,CARBON FILM,2.2K OHM,1/4W,5%	3	R681,737,786
2	051-2203-0	RES,CARBON FILM,22K OHM,1/4W,5%	12	R654,658,673,677,684,685,705,715,717,719,739,740
2	051-2204-0	RES,CARBON FILM,220K OHM,1/4W,5%	2	R743,810
2	051-2205-0	RES,CARBON FILM,2.2M OHM,1/4W,5%	1	R811
2	051-3302-0	RES,CARBON FILM,3.3K OHM,1/4W,5%	8	R646,674,678,714,725,730,754,771
2	051-3303-0	RES,CARBON FILM,33K OHM,1/4W,5%	2	R655,696
2	051-4302-0	RES,CARBON FILM,4.3K OHM,1/4W,5%	2	R689,695
2	051-4701-0	RES,CARBON FILM,470 OHM,1/4W,5%	8	R636,637,640,704,709,732,761,777
2	051-4702-0	RES,CARBON FILM,4.7K OHM,1/4W,5%	4	R794,795,796,797
2	051-4703-0	RES,CARBON FILM,47K OHM,1/4W,5%	6	R651,731,746,787,809,816
2	051-4704-0	RES,CARBON FILM,470K OHM,1/4W,5%	2	R745,R819
2	051-5602-0	RES,CARBON FILM,5.6K OHM,1/4W,5%	4	R687,707,763,784
2	051-5603-0	RES,CARBON FILM,56K OHM,1/4W,5%	1	R768
2	051-6802-0	RES,CARBON FILM,6.8K OHM,1/4W,5%	3	R749,798,818
2	052-0000-0	RES,METAL WIRE, 0 OHM,1/4W,1%	4	JU665,666,779,793
2	052-1213-0	RES,METAL FILM,12.1K OHM,1/4W,1%	2	R780,804
2	052-4703-0	RES,METAL FILM,47K OHM,1/4W,1%	4	R781,788,805,806
2	054-.100-0	RESISTOR, .1 OHM,1 WATT 5%	4	R602,612,655B,683

LVL	PART#	DESCRIPTION	QTY	REF. DESIG.
2	054-2702-0	RES,CARBON FILM,2.7K OHM,1W,5%	4	R618,619,670,671
2	056-.330-0	RES,CERAMIC WW,.33 OHM,5W,10%	5	R604,605
2	056-0500-0	RES,CERAMIC WW,5 OHM,5W,10%	2	R607,611
2	070-0508-0	POT,1K TRIM,6MM,SLOT,.3W	2	R652,711
2	070-0510-0	POT,50K TRIM,6MM,SLOT,.3W	2	R688A,697
2	092-0075-0	JACK S2-BBB,1/4",S-TIP,S-RING,PC TERM	1	J615
2	092-0076-0	JACK S2-BNB,1/4",S-TIP,PC TERM	2	J600,609
2	093-0030-0	HEADER,3X.1,MALE	1	JU789
2	093-0087-0	HEADER,6X.156,MALE RIGHT ANGLE LOCK	1	P540
2	145-0064-0	MICRO SEIES, STEREO POWER AMP BOARD	1	
1	206-0071-E	MICRO SERIES POWER SUPPLY-SWITCHING	1	
2	001-2087-0	UC3843 PWM CONTROLER 8V LOCKOUT	1	U506
2	010-0012-0	MPSA06 NPN 80V 500MA TO-92	1	Q515
2	019-0110-0	1N4741 ZENER 11V 5% 1W DO-35	1	D507
2	020-1125-0	MUR110,RECT-FAST,1A,100V,25NS,DO-41	3	D532,547,549
2	021-1141-0	BYR29-800 RECT-FAST,8A,800V,75N,TO-220	1	D525
2	022-2080-0	1.5KE400C,TRANSORB,400V,A398K	1	M529
2	023-0140-0	BY224-600,BRIDGE RECT,5A,600V,SOT-112	1	BR527
2	030-2101-0	CAP,CERAMIC AXIAL,101,5%,50V	1	C511
2	030-2474-0	CAP,CERAMIC AXIAL Z5U,474,20%,50V	2	C548,550
2	031-1227-0	CAP,ELECTROLYTIC RADIAL,227,-10%+50%,25V	2	D543,544
2	031-6337-0	CAP,ELECTROLYTIC RAD TS,337,20%,200V	2	C517,520
2	032-4123-0	CAP,METALIZED POLYESTER,123,5%,100V	1	C501
2	032-8103-0	CAP,METALIZED POLYESTER,103,10%,400V	1	C524
2	032-8105-0	CAP,METALIZED POLYESTER,105,10%,400V	1	C530
2	033-7105-0	CAP,METALIZED POLYPROPYLENE,105,5%,250V	1	C552
2	033-7125-0	CAP,METALIZED POLYPROPYLENE,125,5%,200V	1	C553
2	036-4182-0	CAP,POLYESTER FILM/FOIL,182,10%,100V	3	C502,503,504
2	038-0106-0	CAP,ELECTROLITIC AXIAL TR,106,20%,16V	2	C510,512
2	039-7102-0	CAP,METALIZED PAPER Y-CAP,102,20%,250V	2	C536,537
2	051-0101-0	RES,CARBON FILM,10 OHM,1/4W,5%	1	R521
2	051-1002-0	RES,CARBON FILM,1K OHM,1/4W,5%	1	R508
2	051-3303-0	RES,CARBON FILM,33K OHM,1/4W,5%	1	R514

LVL	PART#	DESCRIPTION	QTY	REF. DESIG.
2	054-4703-0	RES,CARBON FILM,47K OHM,1W,5%	2	R518,519
2	054-8200-0	RES,CARBON FILM,82 OHM,1W,5%	1	R531
2	055-.100-0	RES,METAL OXIDE,.1 OHM,2W,5%	1	
2	070-0508-0	POT,1K TRIM,6MM,SLOT, .3W	1	R516
2	080-0025-A	TRANSFORMER-100KHZ,120W,120/,Z=4	1	
2	081-0022-0	INDUCTOR,25UH,2.5A,PE92100,30V-USEC	2	L545,L546
2	081-0057-0	INDUCTOR,2UH,7A,2743002112 FERRITE BEAD	1	L551
2	081-0068-0	INDUCTOR,40UH,4A,PE92111 TOROID	3	L526,L541,L542
2	081-0070-0	INDUCTOR CM,3MH,3.5A,PE62912 TOROID CMI	1	L534
2	090-0022-0	SWITCH,ROCKER,DPST,10A,250V,PC-TERM,VDE	1	S528
2	093-0031-0	HEADER,3X.2,MALE	1	JU535
2	093-0074-0	SOCKET,8 PIN,.3 DIP,DW TIN	1	
2	093-0084-0	HEADER,2X3X.1,MALE	1	JU505
2	093-0086-0	HOUSING,6X.156,FEMALE,RT ANGLE LOCK	1	J540
2	145-0071-0	MICRO SERIES, POWER SUPPLY BOARD	1	