

HDR 24/96 PARTS LIST

Parts Numbering guide












040- Cables
 055- Finished PCB Assy
 100- Pots and resistors
 200- Capacitors
 300- Semiconductors
 400- Jacks/Connectors
 500- Switches
 510- Fuses
 550- Chassis Metalwork
 600- Transformers
 601- Inductors
 610- Wires and Cables
 640- AC line cords
 700- Hardware
 760- Knobs/Plastic
 770- Fans
 790- Misc./Packing
 800- Printed Material
 860- EPROM

PART#	DESCRIPTION	PAGES
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055-178-00	Front Panel	A-4
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Components noted with this symbol shall be replaced only by the component specified. This is required to maintain product safety.

090-082-00 Rev A HDR 24/96 120VAC

Item	Part #	Description	Rev	Qty	Notes
3	040-383-00	RIB 28GA 10C 14.0 PLZD	A	1	
4	040-384-00	RIB 28GA 26C 4IN PLZD	B	1	
5	040-385-00	RIB 28G TRANS 34C 18.5IN	B	1	
6	040-386-00	RIB 28G 26C .100 14.50IN	B	1	
7	040-387-00	RIB 28GA 14C 16.0 PLZD	A	1	
9	040-390-00	RIB 28GA 10C 7.00 PLZD	B	2	
12	040-393-00	CBL ASY 22G 4C/6P 9.0IN	A	1	
13	040-438-00	RIB 28GA 16P .100 15.50IN	A	1	
	040-489-00	DIS 18GA 4C 4.5IN PWR/MOL	A	1	
	040-496-00	DIS 18GA 4C 14IN PWR EX	A	1	
	040-497-00	DIS 22G 1007 2C/12P	A	1	
14	055-178-00-01	PCB ASSY FRONT PANEL HDR	A3 A1	1	See page A4
15	055-179-00-01	PCB ASSY BACKPLANE HDR	A A1	1	See page A6
16	055-180-00-01	PCB ASSY BRAIN HDR	B A1	1	See page A7
18	055-268-00-01	PCB ASSY RMT I/O HDR	A1 A1	1	See page A8
	055-359-00-01	PCB ASSY HDR179 POSTSTAMP	A A1	1	See page A9
	055-367-00-01	PCB ASSY ACUMA HDR	A7 A2	1	See page A10
19	080-180-00	SA LCD ASSY HDR	A	1	See page A12
	080-218-03	OP SYS DISK 1 PRGMD V1-0	A A1	1	
	080-218-04	OP SYS DISK 2 PRGMD V1-0	A A1	1	
	080-246-00	SA DATA CABLES HDR	B	1	See page A12
	080-247-00	SA POWER SUPPLY HDR	A	1	See page A12
	20	329-088-03	MICROPROC CELERON 433MHZ	A	1
	400-406-00	ADAPTER MIDI BRKOUT CABLE	A	1	
22	480-024-00	BRKT BLANK PORT	A	2	
	23	480-029-00	OEM FLOPPY DRV 3.5 BLACK	B	1
	24	480-039-00	OEM PCB MOTHER CB50-BX	A A1	1
	25	480-040-00	OEM HARDDRIVE 20.4G	B A1	1
	32	480-041-00	OEM DRIVE FRAME BLACK	A	1
	27	480-043-00	OEM FAN MICROPROC	A A1	1
	29	480-045-00	OEM VIDEO CARD	A A1	1
	30	480-046-00	OEM ETHERNET CARD	A A1	1
	31	480-053-00	OEM MIDI CARD WINMAN1X1	A A1	1
		480-062-00	SDRAM 128MB 2MX8 DIMM MOD	B A1	1
33	550-266-00	BRACKET FRONT PANEL HDR	A	1	
34	550-309-00	CARD CAGE HDR	B	1	
35	550-311-00	CARD RACK HDR	C	1	
36	550-313-00	SUB CHASSIS HDR	C	1	
37	550-314-00	PNT TOP COVER HDR	B	1	
38	550-315-00	FAB ZINC-PLATED CHAS HDR	F	1	
39	550-316-00	BRACKET 3.5 HDR	A	1	
40	550-317-00	BRACKET 5.25 HDR	C	1	
41	550-318-00	SCN FRONT PANEL HDR	C	1	
42	550-319-00	BRACKET HARD DRIVE HDR	B	1	
43	550-320-00	BRACKET SUB CHASSIS HDR	C	1	
44	550-332-00	PNT BLANK COV PLATE SM D8	B	3	
45	551-087-00	PNT EXTR RACKEAR HDR	C	2	
50	700-028-00	SEMS 6-32X1/4 PHP BLKZC	B	60	
	700-034-00	SEMS 4-40X1/4 PHP BLKZC	A	10	
51	700-036-02	MCH 6-32X1/4 FLT100DG CLR	A	29	
52	700-055-00	MCH 4-24X3/8 PHP BLK HILO	A	4	
53	700-085-03	SCR PHP M3X6 STL BLK ZC	A	8	
54	700-086-00	TF 6-32X3/8 FL 100DG BLK	A	16	



Item	Part #	Description	Rev	Qty	Notes
	700-126-01	SCR 6-32X1/4 FL UNCUT BLK	A	3	
55	700-129-02	SCR 10-32X1/2 FLT PHP BLK	A	6	
	700-135-00	SEMS 6-32X1/4 PHP CL ZINC	A	19	
49	701-002-00	SM B 6X1/4 PHP BLKZC	A	6	
56	705-029-00	NUT HEX W/400-287-00	A	AR	
57	706-097-00	STDF HEX 6-32 .562L M/F	A	3	
57	706-097-00	STDF HEX 6-32 .562L M/F	A	2	
58	710-046-00	WASH FLAT W/400-287-00	A	AR	
57	706-097-00	STDF HEX 6-32 .562L M/F	A	2	
59	712-077-00	GASKET EMI CLP FDR 11.5IN	A	1	
60	712-078-00	GSKT EMI BKPLN SHLD 6SLOT	A	1	
61	712-079-00	GASKET EMI PERP CLIP .5IN	A	1	
62	730-001-00	THERMAL JOINT COMPOUND	A	AR	
	740-001-00	TYRAP 3-1/4L	A	7	
	740-002-00	TYRAP MOUNT .75 X .75	B	1	
	740-007-02	GROMMET STRIP LARGE	A	AR	
66	740-017-00	CARD GUIDE 4.0L SNAP-IN	A	6	
	740-023-00	FLT CBL CLMP NYL LOCK 40C	A	1	
	750-001-00	BUMPON ROUND BLK .63X.31	A	4	
68	760-130-00	DUST CVR 9S/15HD DSUB F B	A	2	
70	760-159-01	PWR SW BEZEL HDR POWER	C	1	
73	760-172-00	PLUG HARD DRIVE BAY HDR	A	1	
	760-175-02	TRSPRT BTN BEZEL HDR	B	1	
71	780-047-00	LEXAN METER HDR	A	1	
72	780-152-00	FOAM GASKET LED HDR	A	1	
	860-047-01	OP SFTWR HD V1.0 HDR	A	AR	
	640-001-00	LC IEC SJT 10A/125V 6FT	D	1	Lincord for 120 V model



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055-178-00 Rev A Front Panel assembly

Part #	Description	Value	Ref Designator
140-025-00	RES TF SM .1W 5% 10 OHM	10 5%	R377 R390 R407-408
140-049-00	RES TF SM .1W 5% 100 OHM	100 5%	R381 R419
140-064-00	RES TF SM .1W 5% 430 OHM	430 5%	R1-12 R14-25 R30-41 R46-69 R74-85 R90-125 R130-153 R158-169 R176-199 R202-225 R230-241 R246-257 R262-285 R290-301 R306-329 R338 R340-350
140-068-00	RES TF SM .1W 5% 620 OHM	620 5%	R226-229 R242-245 R351 R353-355 R357-358 R372 R375 R379 R389 R391 R394 R396-399 R422 R429 R449 R455-457 R464 R468 R476
140-071-00	RES TF SM .1W 5% 820 OHM	820 5%	R362-369 R382-388 R392-393 R395 R400-406 R409 R414 R421 R423-428 R431 R433 R435-436 R438 R441-442 R444-448 R450-453 R458 R461 R463 R466 R469-470 R472 R474 R477-482
140-073-00	RES TF SM .1W 5% 1K0 OHM	1K0 5%	R13 R26-29 R42-45 R126-129 R154-157 R258-261 R286-289 R339 R352 R356 R473 R475
140-097-00	RES TF SM .1W 5% 10K OHM	10K 5%	R70-73 R86-89 R170-175 R200-201 R302-305 R330-337 R359-361 R370-371 R373-374 R376 R378 R380 R411 R415-416 R418 R420 R430 R432 R434 R437 R439-440 R443 R454 R459-460 R462 R465 R467 R471
140-123-00	RES TF SM .1W 5% 100K OHM	100K 5%	R410 R412-413 R417
212-001-00	CER .01UF 10% 50V X7R SM	.01 10%	C46
212-025-00	CAP CER .1UF 50V 10% X7R	.1UF 10%	C1-45 C47-54
301-004-00	DIO PWR DL4002 SM	DL4002	D67
△304-001-00	LED RED T-1 RED		D63 D78
△304-003-00	LED YELLOW T-1 YEL		D64-66
△304-004-00	LED GREEN T-1 GRN		D62
△304-025-00	LED ARRAY 46MM GRN\Y\RED		LED1-24
△304-035-00	DISPL 7SEG 1 DIG SUPR RED		D32-39
△304-081-02	LED RED W/.140 SPACER T/R	RED	D1-16 D24-31 D56 D59 D77
△304-082-02	LED GRN W/.140 SPACER T/R	GRN	D57-58 D60-61 D75-76
△304-093-02	LED RED TOWER W/.175 SPCR T/R	RED	D17-23 D40-55
311-001-00	XSTR NPN IMBT4401 SMT	IMBT4401	Q1
325-012-03	TTL 74HC595 SHIFT REG SM	74HC595	U1 U3 U5 U7 U9-53 U55-56 U59



HDR 24/96 SERVICE MANUAL **MACKIE.**

Part #	Description	Value	Ref Designator
325-025-03	CMOS 74HC597 SHIFT REG SM	74HC597	U2 U4 U6 U8 U54 U57 U60
325-053-03	TTL 74AC14 INV SH-TR SM	74AC14	U58
400-341-26	HDR 26P .10X2 STR LCK		J2
450-178-00	PCB, HDR24/96: FRONT PANEL		Z100
500-028-00	SW MOM SPST TACT 12MM PCM		SW48-49
500-033-02	SW TACT 6MMSQR 9.5H 260GF	SPST	SW1-47
500-062-00	SW, KEYBOARD N.O., 6425 SERIES 6425		SW50-55
⚠ 501-008-00	RELAY 2 FORM C TQ2E-5V		K1
620-002-00	CBL RIB 5C 26GA 2IN .100		J1
706-009-00	SPCR PLASTIC .385 LED		Z1
706-085-00	SPCR PVC .175 LED		Z2-11
760-131-02	BTN ARROW CURSOR		B48-49
760-155-01	BTN, TRANSPRT LG .61X.5 RWFF		B50-51
760-155-03	BTN, TRANSPRT LG .61X.5 STP		B52
760-155-04	BTN, TRANSPRT LG .61X.5 PLY		B53
760-155-05	BTN, TRANSPRT LG .61X.5 REC		B54
760-158-02	PWR SW CAP, HDR		B55
760-168-00	BTN .280 IN DIA HDR/D2B		B1-47



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055-179-00 Rev A Backplane assembly

Part #	Description	Value	Ref Designator
123-001-00	RES MO 3W 5% .1 OHM	.1 OHM 5%	R3
140-025-00	RES TF SM .1W 5% 10 OHM	10 5%	R32
140-049-00	RES TF SM .1W 5% 100 OHM	100 5%	R25
140-068-00	RES TF SM .1W 5% 620 OHM	620 5%	R44-53 R58-62
140-073-00	RES TF SM .1W 5% 1K0 OHM	1K0 5%	R4-5 R12 R19 R27-29
140-085-00	RES TF SM .1W 5% 3K3 OHM	3K3 5%	R9 R11 R15
140-097-00	RES TF SM .1W 5% 10K OHM	10K 5%	R7 R17 R22-23 R30
140-101-00	RES TF SM .1W 5% 15K OHM	15K 5%	R1-2 R8 R10 R16 R26
140-105-00	RES TF SM .1W 5% 22K OHM	22K 5%	R24
140-123-00	RES TF SM .1W 5% 100K OHM	100K 5%	R18 R20-21
140-126-00	RES TF SM .1W 5% 150K OHM	150K 5%	R6
140-135-00	RES TF SM .1W 5% 330K OHM	330K 5%	R13
140-147-00	RES TF SM .1W 5% 1M OHM	1M 5%	R14
145-000-00	RES TF SM .1W 0 OHM	0.0 5%	R33-36
145-281-00	RES MF SM .1W 1% 825 OHM	825 1%	R37-43 R54-57 R63-66
212-003-00	CER 100PF 5% 50V NPO SM	100PF 5%	C3
212-023-00	CER .001UF 10% 50V NPO SM	.001 10%	C4 C16
212-025-00	CAP CER .1UF 50V 10% X7R	.1UF 10%	C5 C8-11 C14
212-034-00	CER .022UF 10% 100V X7R	.022 10%	C12
220-002-02	LYT 47UF 20% 25V RAD TR	47UF 20%	C2 C6 C13
220-068-02	LYT 100UF 20% 35V 105C T/R	100UF 20%	C7
223-003-00	LYT 22UF 20% 6.3V SM	22UF 20%	C15
223-004-00	LYT 10UF 20% 16V SM	10UF 20%	C1
300-003-00	DIO SW DL4148 100V SM	DL4148 D6 D8	
301-027-00	DIO STKY BAR 3A 40V SM	SS34 D1-4	
302-003-03	DIO ZEN DL4745 16V 1W	DL4745A	D5 D7
311-001-00	XSTR NPN IMBT4401 SMT	IMBT4401	Q2-3 Q7
311-002-00	XSTR PNP MMST4403 SMT	IMBT4403	Q1 Q4
311-024-00	PWR MOSFET, N-CHANNEL	STS5DNE30	U3-4
323-002-00	LM339D QUAD COMP SM	LM339 U1-2	
400-200-00	I.S.A. EDGE CONNECTOR 2.54MM	J18-20	
400-206-00	HDR 4P .200X1 DISK DRIVE	J2	
400-341-10	HDR 10P .10X2 STR LCK	J1	
400-341-26	HDR 26P .10X2 STR LCK	J4	
400-341-34	HDR 34P .10X2 STR LCK	J3	
450-179-00	PCB, BK PLN SCSI HDR-2424	Z14	
600-039-00	XFMR	T2	
601-002-00	INDUCTOR 4.7UH AX	4.7UH L1-2	
601-010-00	FERRITE SMT POWER	Z=73 FB1-6	



055-180-00 Rev B Brain Assembly (Abe Normal)

Part #	Description	Value	Ref Designator
080-174-00	SA EPROM PRGMD PCB180-HDR		Z7
140-025-00	RES TF SM .1W 5% 10 OHM	10 5%	R4
140-042-00	RES TF SM .1W 5% 51 OHM	51 5%	R14 R18 R20-22 R24-27 R33-38 R43-44 R46-55 R57-62
140-049-00	RES TF SM .1W 5% 100 OHM	100 5%	R15 R23 R68 R74-77 R85-90 R93-97
140-057-00	RES TF SM .1W 5% 220 OHM	220 5%	R29
140-065-00	RES TF SM .1W 5% 470 OHM	470 5%	R82-83
140-073-00	RES TF SM .1W 5% 1K0 OHM	1K0 5%	R3 R98 R100
140-089-00	RES TF SM .1W 5% 4K7 OHM	4K7 5%	R56
140-097-00	RES TF SM .1W 5% 10K OHM	10K 5%	R1-2 R5-13 R16-17 R19 R28 R45 R63 R73 R79 R101-102
140-140-00	RES TF SM .1W 5% 510K OHM	510K 5%	R69
145-331-00	RES MF SM .1W 1% 2K49 OHM	2K49 1%	R71
145-380-00	RES MF SM .1W 1% 8K06 OHM	8K06 1%	R70
⚠ 159-002-00	THMS NTC 0805 15K 10% SM	15k OHMS	10% R84
⚠ 212-025-00	CAP CER .1UF 50V 10% X7R	.1UF 10%	C1-5 C7-16 C18-19 C21-22 C24-26
223-003-00	LYT 22UF 20% 6.3V SM	22UF 20%	C6
301-004-00	DIO PWR DL4002 SM	DL4002	D4
⚠ 304-064-03	LED RED SM 0805	RED	D1
⚠ 304-066-03	LED YELLOW SM 0805	YEL	D2
311-006-00	XSTR PNP IMBTA56 SMT	IMBTA56	Q1
311-024-00	XSTR MOSFET N-CH 5A 30V	STS5DNE30	U8
315-004-00	OSC J-LEAD 7.3728 MHZ SM	7.3728	X2
315-006-00	OSC J-LEAD 20 MHZ SM	20 MHZ	X1
324-004-03	232A DRIVER 5V SM	ADM232A	U1
325-010-03	TTL 74HCT574 OCT D FLP SM	74HCT574	U6 U9 U13
325-020-03	TTL 74HC04 HEX INV SM	74HC04	U15
325-037-03	74AC138 3 TO 8 DECODER	74AC138	U2 U4
329-040-03	IC SERIAL NUM DS2401	DS2401	U11
335-003-00	ADM705 SUPERVISOR CIRCUIT	ADM705	U12
335-004-00	TL16C452 ASYNC COMM	TL16C452	U3 U14
335-011-00	IC, SMD, DIGITAL SIGNAL PROCESSOR	PROPRIETARY	U7
400-028-00	HDR 2P .100X1 STR PLZD		J3 J8
400-206-00	HDR 4P .200X1 DISK DRIVE		J9
400-341-10	HDR 10P .10X2 STR LCK		J1
400-341-14	HDR 14P .10X2 STR LCK		J5
400-341-16	HDR 16P .10X2 STR LCK		J7
400-341-26	HDR 26P .10X2 STR LCK		J2
401-001-32	IC SOCKET 32PIN DIP		U5
450-180-00	PCB BRAIN HDR		Z5
⚠ 600-050-00	INVERTER DC/AC EL LCD		T1
⚠ 601-010-00	FERRITE SMT POWER	Z=73	FB1-4
706-033-11	STDF SWAGE NO.4 X .380L F		Z1-4



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055-268-00 Rev A Remote I/O

Part #	Description	Value	Ref Designator
122-037-00	RES MO 2W 5% 3.3 OHM	3.3 5%	R1 R4
140-049-00	RES TF SM .1W 5% 100 OHM	100 5%	R2
140-057-00	RES TF SM .1W 5% 220 OHM	220 5%	R5-6
140-066-00	RES TF SM .1W 5% 510 OHM	510 5%	R7 R9
140-070-00	RES TF SM .1W 5% 750 OHM	750 5%	R3 R8
212-003-00	CER 100PF 5% 50V NPO SM	100PF 5%	C4
212-010-00	CER .1 +80/-20 25V Z5U SM	.1UF +80/-20%	C1 C3 C8-9 C11-14 C16
212-037-00	CER 1000PF 2% 50V NPO SMT	1000PF 2%	C15 C17-18 C25
212-042-00	CER 470PF 5% 50V NPO SM	470PF 5%	C5-7 C10
220-002-02	LYT 47UF 20% 25V RAD TR	47UF 20%	C2
300-003-00	DIODE SIGNAL SMD	DL4148	D1
329-008-00	IC, OPTO-ISOLATOR	PC900	U1
400-001-00	HDR 6P .100 STR		J6
400-060-00	FUSE CLIP PCMT 5MM DIA		FC1-2
400-177-00	CONN, PS2 MOUSE		J3
400-206-00	HDR 4P .200X1 DISK DRIVE		J2
400-287-00	JACK 1/4 RTA PCMT METBUSH		J4
400-340-00	CONN MODULAR JACK W/SHLD RJ45		J1
400-341-10	HDR 10P .10X2 STR LCK		J9-10
400-341-14	HDR 14P .10X2 STR LCK		J5
450-268-00	PCB, HDR24/96; REMOTE I/O		Z100
⚠ 510-002-00	FUSE SB .5A 5X20 250V IEC	.5A	F1
601-010-00	FERRITE SMT POWER	Z=73	L1 L6
601-036-00	EMI/RFI FILTER, 4 LINE	5UH/WIND	L9
601-037-00	EMI/RFI FILTER, 8 LINE	5UH/WIND	L8
601-038-00	EMI SUPPRESSION FILTER	2200PF	L2-5 L7
712-020-00	BRKT ANG 6-32X.037THK STL		BRKT1
712-021-01	RVT CL END .125X.062-.125		RVT1-2



055-359-00 Rev A Poststamp assembly

Part #	Description	Value	Ref Designator
140-067-00	RES TF SM .1W 5% 560 OHM	560 5%	R15
140-073-00	RES TF SM .1W 5% 1K0 OHM	1K0 5%	R1-2 R13
140-079-00	RES TF SM .1W 5% 1K8 OHM	1K8 5%	R4
140-093-00	RES TF SM .1W 5% 6K8 OHM	6K8 5%	R3 R5 R8
140-097-00	RES TF SM .1W 5% 10K OHM	10K 5%	R7 R9-10
140-108-00	RES TF SM .1W 5% 27K OHM	27K 5%	R6
140-110-00	RES TF SM .1W 5% 33K OHM	33K 5%	R14
140-118-00	RES TF SM .1W 5% 68K OHM	68K 5%	R12
140-152-00	RES TF SM .1W 5% 1M6 OHM	1M6 5%	R11
212-007-00	CER .047UF 20% 50V Z5U SM	.047 20%	C3
212-010-00	CER .1 +80/-20 25V Z5U SM	.1UF +80/-20%	C1 C4 C6
⚠ 222-001-00	TANT 22UF 20% 16V SM	22UF 5%	C2 C5
⚠ 302-002-03	DIO ZEN 1N5230B 4.7V SM	DL5230B	D1
⚠ 311-002-00	XSTR PNP MMST4403 SMT	IMBT4403	Q1
⚠ 311-024-00	PWR MOSFET, N-CHANNEL	STS5DNE30	U1
⚠ 323-002-00	LM339D QUAD COMP SM	LM339	U2
400-206-00	HDR 4P .200X1 DISK DRIVE		J1
400-211-00	HDR 4P .156X1 STR LOCK		J2
450-359-00	PCB, HDR179 POSTSTAMP		Z4



Components noted with this symbol shall be replaced only by the component specified. This is required to maintain product safety.

055-367-00 Rev A Acuma Assembly

Part #	Description	Value	Ref Designator
140-025-00	RES TF SM .1W 5% 10 OHM	10 5%	R19 R26-27 R76 R136
140-033-00	RES TF SM .1W 5% 22 OHM	22 5%	R40
140-035-00	RES TF SM .1W 5% 27 OHM	27 5%	R23-24 R33
140-037-00	RES TF SM .1W 5% 33 OHM	33 5%	R18 R61-62 R70 R75
140-042-00	RES TF SM .1W 5% 51 OHM	51 5%	R4 R34-35 R48 R108-109 R138
140-046-00	RES TF SM .1W 5% 75 OHM	75 5%	R32
140-047-00	RES TF SM .1W 5% 82 OHM	82 5%	R29 R36-37 R44-45 R64 R66-68
140-049-00	RES TF SM .1W 5% 100 OHM	100 5%	R69
140-051-00	RES TF SM .1W 5% 120 OHM	120 5%	R63 R132-133
140-057-00	RES TF SM .1W 5% 220 OHM	220 5%	R72 R74
140-066-00	RES TF SM .1W 5% 510 OHM	510 5%	R104
140-067-00	RES TF SM .1W 5% 560 OHM	560 5%	R50-51
140-068-00	RES TF SM .1W 5% 620 OHM	620 5%	R106
140-073-00	RES TF SM .1W 5% 1K0 OHM	1K0 5%	R8 R21-22 R42-43 R52 R54-60 R71 R73 R77 R94-97 R118-120 R125-130
140-080-00	RES TF SM .1W 5% 2K0 OHM	2K 5%	R131
140-081-00	RES TF SM .1W 5% 2K2 OHM	2K2 5%	R25 R28 R31 R65 R114
140-085-00	RES TF SM .1W 5% 3K3 OHM	3K3 5%	R116
140-087-00	RES TF SM .1W 5% 3K9 OHM	3K9 5%	R139
140-089-00	RES TF SM .1W 5% 4K7 OHM	4K7 5%	R140
140-097-00	RES TF SM .1W 5% 10K OHM	10K 5%	R5-7 R9-16 R20 R80-83 R90-93
140-104-00	RES TF SM .1W 5% 20K OHM	20K 5%	R86-87 R134-135
140-131-00	RES TF SM .1W 5% 220K OHM	220K 5%	R84-85
140-143-00	RES TF SM .1W 5% 680K OHM	680K 5%	R107
140-155-00	RES TF SM .1W 5% 2M2	2M2 5%	R46-47
145-000-00	RES TF SM .1W 0 OHM	0.0 5%	R17 R78-79 R89 R113 R117
145-234-00	RES MF SM .1W 1% 267 OHM	267 1%	R39
145-289-00	RES MF SM .1W 1% 1K00 OHM	1K00 1%	R38
145-297-00	RES MF SM .1W 1% 1K21 OHM	1K21 1%	R98-101
145-306-00	RES MF SM .1W 1% 1K50 OHM	1K50 1%	R2
145-343-00	RES MF SM .1W 1% 3K32 OHM	3K32 1%	R41
145-358-00	RES MF SM .1W 1% 4K75 OHM	4K75 1%	R30
145-389-00	RES MF SM .1W 1% 10K0 OHM	10K0 1%	R102-103
145-394-00	RES MF SM .1W 1% 11K3 OHM	11K3 1%	R137
212-003-00	CER 100PF 5% 50V NPO SM	100PF 5%	C90
212-008-00	CER .22UF +80/-20% 25V SM	.22 5%	C45
212-009-00	CER 47PF 5% 50V NPO SM	47PF 5%	C5-6 C48-49 C59 C76
212-016-00	CER 1000PF 5% 50V NPO SM	1000PF 5%	C106
212-025-00	CAP CER .1UF 50V 10% X7R	.1UF 10%	C1 C7-9 C15-17 C19 C21-31 C33 C38-44 C46-47 C58 C60-73 C75 C81 C83-89 C95 C100-102 C105 C107-108 C113-115
212-029-00	CER 270PF 5% 50V NPO SM	270PF 5%	C91-92
212-030-00	CER 1UF 16V 10% X7R 1206	1UF 10%	C77-78
212-044-00	CER 390PF 10% 50V NPO SM	390PF 10%	C10
212-045-00	CER 18PF 5% 50V NPO SM	18PF 5%	C34-37
212-046-00	CER 510PF 5% 50V 0805 SM	510PF 5%	C99
222-005-00	TANT 10UF 20% 16V SM	10UF 20%	C3-4 C93 C103 C109-112

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Components noted with this symbol shall be replaced only by the component specified. This is required to maintain product safety.

HDR 24/96 SERVICE MANUAL **MACKIE.**

Part #	Description	Value	Ref Designator
222-006-00	TANT 1UF 10% 50V 6032 SM	1UF 10%	C20 C94
222-007-00	CAP TANT 4.7UF 10% 16V SM	4.7UF 10%	C2 C82
222-007-00	TANT 4.7UF 10% 16V 3216SM	4.7UF 10%	C52 C50
222-008-00	CAP TANT 10UF 10% 16V SM	10UF 10%	C11-13 C18 C32 C53-57 C79-80
222-008-00	TANT 10UF 10% 16V 6032 SM	10UF 10%	C74 C96-98 C104
223-009-00	LYT 100UF 20% 25V SMT	100UF 20%	C51
300-011-03	DIO, SIGNAL, DUAL, BAV99	BAV99	D10-11
300-012-03	SW DIODE BAS21 SMT	BAS21	D1-4
⚠ 304-064-03	LED RED SM 0805	RED	D6-9
315-017-00	CRYSTAL 24.576MHZ LOWPF	24.576	X2
315-026-00	CRYSTAL 22.5792MHZ LOWPF	22.5792	X3
315-033-00	OSC 65MHZ 5V 8DIP CAN	M3H13FAD-	X5
320-022-03	OP AMP VIDEO LT 1252	LT1252	U20
320-023-03	OP AMP DUAL LMV922M	LMV922M	U2 U17
⚠ 321-008-03	REG LM317L ADJ SM	LM317L	Q3
⚠ 321-014-03	REGULATOR, 3.3V, LDO	LT1129CST	Q1
325-007-03	TTL 74HC14A INV SH-TR SM	74HC14 U10 U19	
325-010-03	TTL 74HCT574 OCT D FLP SM	74HCT574	U28
325-019-03	TTL 74HC00 QUAD NAND SM	74HC00 U7	
325-024-03	TTL 74HC4316 QUAD MX/DEMX	74HC4316	U21
325-068-03	IC, QUAD 74LCX/LVCOO SMT	74LVC00	U12
325-082-03	TTL 74HCT08 QUAD AND SM	74HCT08	U11
325-109-03	74ABT2244 SMT 74ABT2244	U4 U6 U9	
325-110-03	Video Sync Separator	LM1881M	U18
329-057-03	IC, PLL SMD TLC2932IP		U8
329-089-03	IC, SMD, EIA RS-485/422 TRANSCEIVER	DS75176B	U16
329-090-03	IC, CPLD, PQFP208	EPF10K30A	U3
329-091-03	SSRAM 64K X 36, LQFP100	MT58LC64K	U5
329-092-03	EEPROM, 64K AT28bV64B-20Sc		U14
335-007-00	DSP XC56301PW-80	XC56301PW	U1
400-166-00	JACK 1/4 HRZ PCMNT STEREO	UJ-611-E	J5
400-312-00	BNC PCMT RTA 75 OHM LOW P ALL METAL		J1-2
400-341-26	HDR 26P .10X2 STR LCK		J4
400-341-34	HDR 34P .10X2 STR LCK		J3
450-367-00	PCB, ACUMA: HDR		Z1
500-063-00	SW PB DPDT DPDT		SW1
550-559-00	FAB BRKT SONORUS	CB-1128-M	Z4
⚠ 601-010-00	FERRITE SMT POWER	Z=73	FB3-4 FB7 FB9 FB11
⚠ 601-018-00	COMMON MODE CHOKE DUAL		L1
⚠ 601-047-00	EMI T-FILTER 47PF 47PF		EMIF1-4
700-011-00	MCH 4-40X1/4 BTNSKT BLKOX		Z2 Z5
760-100-00	BTN BLACK 10.5x8.8mm		Z3
NOT USED			R49 R53 R123-124 R88 R105 R110-111 R115 R1 R3 R112 R121-122 R200 C14



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080-180-00 Rev A LCD Subassembly

Part #	Description	Rev	Quantity
040-430-00	CBL ASS 22G 1007 2C 12.00	A	1
304-077-00	LCD 24X4 EL/BKLT BLUE/WHT	A	1
400-257-00	HDR 16P .100X2 STR	A	1

080-246-00 Rev B Data Cable Subassembly

Part #	Description	Rev	Quantity
040-139-00	RIB 28GA 34C 23IN PLZD	B	1
040-392-00	RIB 28GA 40C 20IN PLZD	B	2
730-038-00	JET MELT 3M 3779-Q	A	AR

080-247-00 Rev A Power Supply Subassembly

Part #	Description	Rev	Quantity
 480-070-00	OEM PWR SUP 200W WO/SW	A	1
740-001-00	TYRAP 3-1/4L	A	1
740-002-00	TYRAP MOUNT .75 X .75	B	1
740-034-00	CBL WRAP SPIRAL PE .75"	A	AR

